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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : USACE018-44 DOD

FIRST ENVIRONMENT, INC.

10 Park Place, Bldg 1A, Suite 504

Butler, NJ - 07405

Phone No: 973-334-0003

ORDER ID : Q2819

ATTENTION : Al Smith

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2819

Project ID : USACE018-44 DOD

Client : First Environment, Inc.

Lab Sample Number	Client Sample Number
Q2819-01	22BP-N
Q2819-02	22BP-E
Q2819-03	22BP-W
Q2819-04	22BP-S
Q2819-05	11M-W
Q2819-06	11M-S
Q2819-07	11M-N
Q2819-08	11M-E
Q2819-09	84SB-E
Q2819-10	84SB-S
Q2819-11	84SB-W
Q2819-12	17M-S
Q2819-13	17M-E
Q2819-14	17M-W
Q2819-15	17M-N
Q2819-16	38M-S
Q2819-17	38M-N
Q2819-18	38M-W
Q2819-19	38M-E
Q2819-20	82H-E

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 # Q2819
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
20 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 except for
84SB-S [4-Bromofluorobenzene - 78%],
84SB-SRE [4-Bromofluorobenzene - 70%],
84SB-W [4-Bromofluorobenzene - 76%] and
84SB-WRE [4-Bromofluorobenzene - 50%]
Samples were reanalyzed to confirm the failure and reported.

The Internal Standards Areas were met for all analysis except for 84SB-W, 84SB-WRE sample was reanalyzed to confirm the failure and reported.
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.

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The Continuous Calibration File ID VY023084.D met the requirements except for Chloroethane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Sample #11M-E and 17M-N 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.

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2819 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 VY023084.D met the requirements except for Chloroethane is 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 except for 84SB-S [4-Bromofluorobenzene - 78%], 84SB-SRE [4-Bromofluorobenzene - 70%], 84SB-W [4-Bromofluorobenzene - 76%] and 84SB-WRE [4-Bromofluorobenzene - 50%] samples were reanalyzed to confirm the failure and reported.		✓	
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: The Internal Standards Areas were met for all analysis except for 84SB-W, 84SB-WRE sample was reanalyzed to confirm the failure and reported.		✓	
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

The Sample #11M-E and 17M-N 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

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

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2819

	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:	Q2819	**OrderDate:**	8/11/2025 12:06:00 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
Q2819-01	**22BP-N**	**SOIL**			**08/04/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/11/25	
Q2819-02	**22BP-E**	**SOIL**			**08/04/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/11/25	
Q2819-03	**22BP-W**	**SOIL**			**08/04/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/11/25	
Q2819-04	**22BP-S**	**SOIL**			**08/04/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/11/25	
Q2819-05	**11M-W**	**SOIL**			**08/05/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/11/25	
Q2819-06	**11M-S**	**SOIL**			**08/05/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/11/25	
Q2819-07	**11M-N**	**SOIL**			**08/05/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/13/25	
Q2819-08	**11M-E**	**SOIL**			**08/05/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/13/25	
Q2819-09	**84SB-E**	**SOIL**			**08/05/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/13/25	
Q2819-10	**84SB-S**	**SOIL**			**08/05/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/13/25	
Q2819-10RE	**84SB-SRE**	**SOIL**			**08/05/25**			**08/08/25**
			VOC-TCLVOA-10	8260D			08/14/25	
Q2819-11	**84SB-W**	**SOIL**			**08/05/25**			**08/08/25**

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LAB CHRONICLE

			VOC-TCLVOA-10	8260D		08/13/25	
Q2819-11RE	**84SB-WRE**	**SOIL**			**08/05/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2819-12	**17M-S**	**SOIL**			**08/05/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/13/25	
Q2819-13	**17M-E**	**SOIL**			**08/05/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/13/25	
Q2819-14	**17M-W**	**SOIL**			**08/05/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/13/25	
Q2819-15	**17M-N**	**SOIL**			**08/05/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2819-16	**38M-S**	**SOIL**			**08/06/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/14/25	
Q2819-17	**38M-N**	**SOIL**			**08/06/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/13/25	
Q2819-18	**38M-W**	**SOIL**			**08/06/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/13/25	
Q2819-19	**38M-E**	**SOIL**			**08/06/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/13/25	
Q2819-20	**82H-E**	**SOIL**			**08/06/25**		**08/08/25**
			VOC-TCLVOA-10	8260D		08/19/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID:	**22BP-N**									
Q2819-01	22BP-N	SOIL	Acetone		5.40	J	3.40	14.2	17.7	ug/Kg
Q2819-01	22BP-N	SOIL	Methylene Chloride		5.70	J	2.50	5.70	7.10	ug/Kg
			Total Voc :		11.1					
			Total Concentration:		11.1					
Client ID:	**22BP-E**									
Q2819-02	22BP-E	SOIL	Acetone		8.00	J	3.80	16.0	20.0	ug/Kg
			Total Voc :		8.00					
			Total Concentration:		8.00					
Client ID:	**22BP-W**									
Q2819-03	22BP-W	SOIL	Carbon Disulfide		1.30	J	0.82	3.10	3.90	ug/Kg
			Total Voc :		1.30					
			Total Concentration:		1.30					
Client ID:	**22BP-S**									
Q2819-04	22BP-S	SOIL	Carbon Disulfide		1.50	J	1.10	4.00	5.00	ug/Kg
			Total Voc :		1.50					
			Total Concentration:		1.50					
Client ID:	**11M-N**									
Q2819-07	11M-N	SOIL	Acetone		51.1		4.90	20.8	26.1	ug/Kg
Q2819-07	11M-N	SOIL	Carbon Disulfide		1.60	J	1.10	4.20	5.20	ug/Kg
Q2819-07	11M-N	SOIL	2-Butanone		13.1	J	6.80	20.8	26.1	ug/Kg
Q2819-07	11M-N	SOIL	Toluene		6.30		0.81	2.60	5.20	ug/Kg
Q2819-07	11M-N	SOIL	Ethyl Benzene		54.8		0.70	2.60	5.20	ug/Kg
Q2819-07	11M-N	SOIL	m/p-Xylenes		190		1.30	5.20	10.4	ug/Kg
Q2819-07	11M-N	SOIL	o-Xylene		85.7		0.85	2.60	5.20	ug/Kg
Q2819-07	11M-N	SOIL	Isopropylbenzene		89.9		0.81	2.60	5.20	ug/Kg
			Total Voc :		493					
Q2819-07	11M-N	SOIL	Naphthalene, 1-methyl-	*	2400	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	2-Propenal, 3-phenyl-	*	380	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Benzo[c]thiophene	*	470	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Benzene, 1-ethyl-3-methyl-	*	220	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Benzene, 1-ethenyl-4-methyl-	*	3500	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Benzene, 2-ethenyl-1,4-dimeth	*	200	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	1H-Indene, 1-ethylidene-	*	1100	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Benzene, 1-ethenyl-4-ethyl-	*	310	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	Benzene, 1-ethenyl-3-ethyl-	*	130	J	0		0	ug/Kg
Q2819-07	11M-N	SOIL	n-propylbenzene	*	11.2	J	0.76		5.20	ug/Kg
Q2819-07	11M-N	SOIL	1,3,5-Trimethylbenzene	*	150	J	0.85		5.20	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q2819

Client: First Environment, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Q2819-07	11M-N	SOIL	1,2,4-Trimethylbenzene	*	410	J	0.67		5.20	ug/Kg
Q2819-07	11M-N	SOIL	p-Isopropyltoluene	*	51.8	J	0.65		5.20	ug/Kg
Q2819-07	11M-N	SOIL	n-Butylbenzene	*	2.40	J	1.50		5.20	ug/Kg
			Total Tics :		9340					
			Total Concentration:		9830					
Client ID:	**11M-E**									
Q2819-08	11M-E	SOIL	Acetone		20.7	J	6.00	25.5	31.8	ug/Kg
			Total Voc :		20.7					
Q2819-08	11M-E	SOIL	Naphthalene, 1-methyl-	*	22.3	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Naphthalene, 1,7-dimethyl-	*	54.6	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Naphthalene, 1,6-dimethyl-	*	100	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	Naphthalene, 2,6-dimethyl-	*	24.9	J	0		0	ug/Kg
Q2819-08	11M-E	SOIL	1,1-Biphenyl, 4-methyl-	*	14.8	J	0		0	ug/Kg
			Total Tics :		217					
			Total Concentration:		237					
Client ID:	**84SB-E**									
Q2819-09	84SB-E	SOIL	Carbon Disulfide		3.20	J	3.20	12.1	15.1	ug/Kg
			Total Voc :		3.20					
Q2819-09	84SB-E	SOIL	Naphthalene, 1-methyl-	*	17.9	J	0		0	ug/Kg
			Total Tics :		17.9					
			Total Concentration:		21.1					
Client ID:	**84SB-W**									
Q2819-11	84SB-W	SOIL	Naphthalene, 1-methyl-	*	7.40	J	0		0	ug/Kg
Q2819-11	84SB-W	SOIL	3-Cyclohexyl-1-methyl-1-(2-ph	*	5.70	J	0		0	ug/Kg
			Total Tics :		13.1					
			Total Concentration:		13.1					

QC SUMMARY

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

SDG No.: Q2819

Client: First Environment, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2819-01	22BP-N	1,2-Dichloroethane-d4	50	52.0	104		71	136
		Dibromofluoromethane	50	51.3	103		78	119
		Toluene-d8	50	50.5	101		85	116
		4-Bromofluorobenzene	50	48.4	97		79	119
Q2819-02	22BP-E	1,2-Dichloroethane-d4	50	56.9	114		71	136
		Dibromofluoromethane	50	51.1	102		78	119
		Toluene-d8	50	50.6	101		85	116
		4-Bromofluorobenzene	50	54.6	109		79	119
Q2819-03	22BP-W	1,2-Dichloroethane-d4	50	56.6	113		71	136
		Dibromofluoromethane	50	52.9	106		78	119
		Toluene-d8	50	49.7	99		85	116
		4-Bromofluorobenzene	50	51.4	103		79	119
Q2819-04	22BP-S	1,2-Dichloroethane-d4	50	54.0	108		71	136
		Dibromofluoromethane	50	50.2	100		78	119
		Toluene-d8	50	49.6	99		85	116
		4-Bromofluorobenzene	50	51.6	103		79	119
Q2819-05	11M-W	1,2-Dichloroethane-d4	50	59.2	118		71	136
		Dibromofluoromethane	50	54.3	109		78	119
		Toluene-d8	50	52.7	105		85	116
		4-Bromofluorobenzene	50	57.4	115		79	119
Q2819-06	11M-S	1,2-Dichloroethane-d4	50	53.2	106		71	136
		Dibromofluoromethane	50	52.2	104		78	119
		Toluene-d8	50	50.3	101		85	116
		4-Bromofluorobenzene	50	51.3	102		79	119
Q2819-07	11M-N	1,2-Dichloroethane-d4	50	66.6	133		71	136
		Dibromofluoromethane	50	55.2	110		78	119
		Toluene-d8	50	51.4	103		85	116
		4-Bromofluorobenzene	50	50.4	101		79	119
Q2819-08	11M-E	1,2-Dichloroethane-d4	50	62.9	126		71	136
		Dibromofluoromethane	50	53.6	107		78	119
		Toluene-d8	50	51.3	103		85	116
		4-Bromofluorobenzene	50	44.9	90		79	119
Q2819-09	84SB-E	1,2-Dichloroethane-d4	50	66.0	132		71	136
		Dibromofluoromethane	50	54.2	108		78	119
		Toluene-d8	50	51.6	103		85	116
		4-Bromofluorobenzene	50	43.8	88		79	119
Q2819-10	84SB-S	1,2-Dichloroethane-d4	50	59.0	118		71	136
		Dibromofluoromethane	50	53.4	107		78	119
		Toluene-d8	50	51.6	103		85	116
		4-Bromofluorobenzene	50	38.9	78	*	79	119
Q2819-10RE	84SB-SRE	1,2-Dichloroethane-d4	50	61.1	122		71	136
		Dibromofluoromethane	50	54.8	110		78	119
		Toluene-d8	50	52.3	105		85	116
		4-Bromofluorobenzene	50	35.0	70	*	79	119
Q2819-11	84SB-W	1,2-Dichloroethane-d4	50	53.1	106		71	136
		Dibromofluoromethane	50	54.4	109		78	119
		Toluene-d8	50	49.1	98		85	116
		4-Bromofluorobenzene	50	37.8	76	*	79	119
Q2819-11RE	84SB-WRE	1,2-Dichloroethane-d4	50	38.6	77		71	136
		Dibromofluoromethane	50	52.7	105		78	119

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Surrogate Summary

SDG No.: Q2819

Client: First Environment, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q2819-11RE	84SB-WRE	Toluene-d8	50	46.4	93		85	116
		4-Bromofluorobenzene	50	24.8	50	*	79	119
Q2819-12	17M-S	1,2-Dichloroethane-d4	50	62.1	124		71	136
		Dibromofluoromethane	50	53.7	107		78	119
		Toluene-d8	50	52.3	105		85	116
		4-Bromofluorobenzene	50	48.5	97		79	119
Q2819-13	17M-E	1,2-Dichloroethane-d4	50	62.5	125		71	136
		Dibromofluoromethane	50	53.4	107		78	119
		Toluene-d8	50	51.9	104		85	116
		4-Bromofluorobenzene	50	49.1	98		79	119
Q2819-14	17M-W	1,2-Dichloroethane-d4	50	50.9	102		71	136
		Dibromofluoromethane	50	50.5	101		78	119
		Toluene-d8	50	51.7	103		85	116
		4-Bromofluorobenzene	50	41.3	83		79	119
Q2819-15	17M-N	1,2-Dichloroethane-d4	50	62.3	125		71	136
		Dibromofluoromethane	50	54.5	109		78	119
		Toluene-d8	50	51.8	104		85	116
		4-Bromofluorobenzene	50	47.0	94		79	119
Q2819-16	38M-S	1,2-Dichloroethane-d4	50	62.3	125		71	136
		Dibromofluoromethane	50	53.9	108		78	119
		Toluene-d8	50	51.4	103		85	116
		4-Bromofluorobenzene	50	40.0	80		79	119
Q2819-17	38M-N	1,2-Dichloroethane-d4	50	65.0	130		71	136
		Dibromofluoromethane	50	53.4	107		78	119
		Toluene-d8	50	52.8	105		85	116
		4-Bromofluorobenzene	50	49.9	100		79	119
Q2819-18	38M-W	1,2-Dichloroethane-d4	50	61.8	124		71	136
		Dibromofluoromethane	50	53.3	107		78	119
		Toluene-d8	50	52.8	106		85	116
		4-Bromofluorobenzene	50	47.9	96		79	119
Q2819-19	38M-E	1,2-Dichloroethane-d4	50	62.0	124		71	136
		Dibromofluoromethane	50	53.3	107		78	119
		Toluene-d8	50	52.4	105		85	116
		4-Bromofluorobenzene	50	45.6	91		79	119
Q2819-20	82H-E	1,2-Dichloroethane-d4	50	54.7	109		71	136
		Dibromofluoromethane	50	52.7	105		78	119
		Toluene-d8	50	50.5	101		85	116
		4-Bromofluorobenzene	50	43.3	87		79	119
VW0811SBL01	VW0811SBL01	1,2-Dichloroethane-d4	50	52.6	105		71	136
		Dibromofluoromethane	50	47.8	96		78	119
		Toluene-d8	50	49.1	98		85	116
		4-Bromofluorobenzene	50	47.4	95		79	119
VW0811SBS01	VW0811SBS01	1,2-Dichloroethane-d4	50	50.8	102		71	136
		Dibromofluoromethane	50	48.9	98		78	119
		Toluene-d8	50	49.8	100		85	116
		4-Bromofluorobenzene	50	52.4	105		79	119
VW0811SBSD0	VW0811SBSD01	1,2-Dichloroethane-d4	50	49.8	100		71	136
		Dibromofluoromethane	50	47.0	94		78	119
		Toluene-d8	50	48.3	97		85	116
		4-Bromofluorobenzene	50	49.8	100		79	119

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Surrogate Summary

SDG No.: Q2819

Client: First Environment, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
VY0813SBL01	VY0813SBL01	1,2-Dichloroethane-d4	50	57.2	114		71	136
		Dibromofluoromethane	50	53.5	107		78	119
		Toluene-d8	50	47.4	95		85	116
		4-Bromofluorobenzene	50	47.2	94		79	119
VY0813SBS01	VY0813SBS01	1,2-Dichloroethane-d4	50	50.3	101		71	136
		Dibromofluoromethane	50	49.4	99		78	119
		Toluene-d8	50	50.0	100		85	116
		4-Bromofluorobenzene	50	47.9	96		79	119
VY0814SBL01	VY0814SBL01	1,2-Dichloroethane-d4	50	57.9	116		71	136
		Dibromofluoromethane	50	53.5	107		78	119
		Toluene-d8	50	53.0	106		85	116
		4-Bromofluorobenzene	50	45.1	90		79	119
VY0814SBS01	VY0814SBS01	1,2-Dichloroethane-d4	50	50.3	101		71	136
		Dibromofluoromethane	50	50.1	100		78	119
		Toluene-d8	50	50.9	102		85	116
		4-Bromofluorobenzene	50	47.7	95		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.: Q2819 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VW032061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0811SBS01	Dichlorodifluoromethane	20	21.3	ug/Kg	106			29	149	
	Chloromethane	20	20.8	ug/Kg	104			50	136	
	Vinyl chloride	20	21.1	ug/Kg	106			56	135	
	Bromomethane	20	21.5	ug/Kg	108			53	143	
	Chloroethane	20	20.8	ug/Kg	104			59	139	
	Trichlorofluoromethane	20	17.6	ug/Kg	88			62	140	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/Kg	101			66	136	
	1,1-Dichloroethene	20	20.4	ug/Kg	102			70	131	
	Acetone	100	120	ug/Kg	120			36	164	
	Carbon disulfide	20	20.2	ug/Kg	101			63	132	
	Methyl tert-butyl Ether	20	21.9	ug/Kg	110			73	125	
	Methyl Acetate	20	21.7	ug/Kg	109			53	144	
	Methylene Chloride	20	21.4	ug/Kg	107			70	128	
	trans-1,2-Dichloroethene	20	20.7	ug/Kg	104			74	125	
	1,1-Dichloroethane	20	21.0	ug/Kg	105			76	125	
	Cyclohexane	20	20.0	ug/Kg	100			67	131	
	2-Butanone	100	110	ug/Kg	110			51	148	
	Carbon Tetrachloride	20	20.0	ug/Kg	100			70	135	
	cis-1,2-Dichloroethene	20	21.2	ug/Kg	106			77	123	
	Bromochloromethane	20	20.5	ug/Kg	103			78	125	
	Chloroform	20	21.1	ug/Kg	106			78	123	
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104			73	130	
	Methylcyclohexane	20	20.0	ug/Kg	100			66	133	
	Benzene	20	21.0	ug/Kg	105			77	121	
	1,2-Dichloroethane	20	20.9	ug/Kg	104			73	128	
	Trichloroethene	20	20.2	ug/Kg	101			77	123	
	1,2-Dichloropropane	20	21.0	ug/Kg	105			76	123	
	Bromodichloromethane	20	20.4	ug/Kg	102			75	127	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			65	135	
	Toluene	20	21.0	ug/Kg	105			77	121	
	t-1,3-Dichloropropene	20	20.4	ug/Kg	102			71	130	
	cis-1,3-Dichloropropene	20	20.9	ug/Kg	104			74	126	
	1,1,2-Trichloroethane	20	20.8	ug/Kg	104			78	121	
	2-Hexanone	100	110	ug/Kg	110			53	145	
	Dibromochloromethane	20	20.6	ug/Kg	103			74	126	
	1,2-Dibromoethane	20	21.2	ug/Kg	106			78	122	
	Tetrachloroethene	20	21.1	ug/Kg	106			73	128	
	Chlorobenzene	20	20.2	ug/Kg	101			79	120	
	Ethyl Benzene	20	20.1	ug/Kg	101			76	122	
	m/p-Xylenes	40	40.9	ug/Kg	102			77	124	
	o-Xylene	20	21.2	ug/Kg	106			77	123	
	Styrene	20	20.9	ug/Kg	104			76	124	
	Bromoform	20	19.6	ug/Kg	98			67	132	
	Isopropylbenzene	20	19.9	ug/Kg	100			68	134	
	1,1,2,2-Tetrachloroethane	20	20.1	ug/Kg	101			70	124	
	1,3-Dichlorobenzene	20	20.4	ug/Kg	102			77	121	
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104			75	120	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2819**	**Analytical Method:**	**SW8260D**
Client:	**First Environment, Inc.**	**Datafile :**	VW032061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0811SBS01	1,2-Dibromo-3-Chloropropane	20	20.1	ug/Kg	101			61	132	
	1,2,4-Trichlorobenzene	20	19.5	ug/Kg	98			67	129	
	1,2,3-Trichlorobenzene	20	21.4	ug/Kg	107			66	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VW032062.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0811SBSD01	Dichlorodifluoromethane	20	20.4	ug/Kg	102	4		29	149	20
	Chloromethane	20	21.5	ug/Kg	108	4		50	136	20
	Vinyl chloride	20	20.6	ug/Kg	103	3		56	135	20
	Bromomethane	20	21.1	ug/Kg	106	2		53	143	20
	Chloroethane	20	20.9	ug/Kg	104	0		59	139	20
	Trichlorofluoromethane	20	20.7	ug/Kg	104	17		62	140	20
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99	2		66	136	20
	1,1-Dichloroethene	20	20.2	ug/Kg	101	1		70	131	20
	Acetone	100	110	ug/Kg	110	9		36	164	20
	Carbon disulfide	20	20.0	ug/Kg	100	1		63	132	20
	Methyl tert-butyl Ether	20	21.8	ug/Kg	109	1		73	125	20
	Methyl Acetate	20	21.5	ug/Kg	108	1		53	144	20
	Methylene Chloride	20	21.6	ug/Kg	108	1		70	128	20
	trans-1,2-Dichloroethene	20	20.5	ug/Kg	103	1		74	125	20
	1,1-Dichloroethane	20	20.5	ug/Kg	103	2		76	125	20
	Cyclohexane	20	20.1	ug/Kg	101	1		67	131	20
	2-Butanone	100	110	ug/Kg	110	0		51	148	20
	Carbon Tetrachloride	20	19.8	ug/Kg	99	1		70	135	20
	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	2		77	123	20
	Bromochloromethane	20	20.0	ug/Kg	100	3		78	125	20
	Chloroform	20	21.0	ug/Kg	105	1		78	123	20
	1,1,1-Trichloroethane	20	20.4	ug/Kg	102	2		73	130	20
	Methylcyclohexane	20	20.1	ug/Kg	101	1		66	133	20
	Benzene	20	20.2	ug/Kg	101	4		77	121	20
	1,2-Dichloroethane	20	20.8	ug/Kg	104	0		73	128	20
	Trichloroethene	20	20.1	ug/Kg	101	0		77	123	20
	1,2-Dichloropropane	20	20.1	ug/Kg	101	4		76	123	20
	Bromodichloromethane	20	20.0	ug/Kg	100	2		75	127	20
	4-Methyl-2-Pentanone	100	100	ug/Kg	100	10		65	135	20
	Toluene	20	20.5	ug/Kg	103	2		77	121	20
	t-1,3-Dichloropropene	20	20.0	ug/Kg	100	2		71	130	20
	cis-1,3-Dichloropropene	20	20.4	ug/Kg	102	2		74	126	20
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104	0		78	121	20
	2-Hexanone	100	110	ug/Kg	110	0		53	145	20
	Dibromochloromethane	20	20.1	ug/Kg	101	2		74	126	20
	1,2-Dibromoethane	20	20.7	ug/Kg	104	2		78	122	20
	Tetrachloroethene	20	20.5	ug/Kg	103	3		73	128	20
	Chlorobenzene	20	20.2	ug/Kg	101	0		79	120	20
	Ethyl Benzene	20	20.5	ug/Kg	103	2		76	122	20
	m/p-Xylenes	40	40.7	ug/Kg	102	0		77	124	20
	o-Xylene	20	20.4	ug/Kg	102	4		77	123	20
	Styrene	20	20.8	ug/Kg	104	0		76	124	20
	Bromoform	20	20.2	ug/Kg	101	3		67	132	20
	Isopropylbenzene	20	19.5	ug/Kg	98	2		68	134	20
	1,1,2,2-Tetrachloroethane	20	20.5	ug/Kg	103	2		70	124	20
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104	2		77	121	20
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104	0		75	120	20
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104	2		78	121	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VW032062.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW0811SBSD01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/Kg	98	3		61	132	20
	1,2,4-Trichlorobenzene	20	20.4	ug/Kg	102	4		67	129	20
	1,2,3-Trichlorobenzene	20	20.6	ug/Kg	103	4		66	130	20

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Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VY023061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0813SBS01	Dichlorodifluoromethane	20	22.1	ug/Kg	111			29	149	
	Chloromethane	20	23.7	ug/Kg	119			50	136	
	Vinyl chloride	20	23.6	ug/Kg	118			56	135	
	Bromomethane	20	23.9	ug/Kg	119			53	143	
	Chloroethane	20	23.2	ug/Kg	116			59	139	
	Trichlorofluoromethane	20	22.5	ug/Kg	113			62	140	
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/Kg	108			66	136	
	1,1-Dichloroethene	20	21.5	ug/Kg	108			70	131	
	Acetone	100	100	ug/Kg	100			36	164	
	Carbon disulfide	20	21.7	ug/Kg	109			63	132	
	Methyl tert-butyl Ether	20	19.9	ug/Kg	100			73	125	
	Methyl Acetate	20	19.0	ug/Kg	95			53	144	
	Methylene Chloride	20	21.6	ug/Kg	108			70	128	
	trans-1,2-Dichloroethene	20	21.2	ug/Kg	106			74	125	
	1,1-Dichloroethane	20	21.3	ug/Kg	106			76	125	
	Cyclohexane	20	20.5	ug/Kg	103			67	131	
	2-Butanone	100	97.4	ug/Kg	97			51	148	
	Carbon Tetrachloride	20	20.7	ug/Kg	104			70	135	
	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106			77	123	
	Bromochloromethane	20	20.8	ug/Kg	104			78	125	
	Chloroform	20	21.6	ug/Kg	108			78	123	
	1,1,1-Trichloroethane	20	21.4	ug/Kg	107			73	130	
	Methylcyclohexane	20	20.3	ug/Kg	102			66	133	
	Benzene	20	21.0	ug/Kg	105			77	121	
	1,2-Dichloroethane	20	20.7	ug/Kg	104			73	128	
	Trichloroethene	20	20.7	ug/Kg	104			77	123	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			76	123	
	Bromodichloromethane	20	20.9	ug/Kg	104			75	127	
	4-Methyl-2-Pentanone	100	93.2	ug/Kg	93			65	135	
	Toluene	20	20.8	ug/Kg	104			77	121	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			71	130	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			74	126	
	1,1,2-Trichloroethane	20	19.6	ug/Kg	98			78	121	
	2-Hexanone	100	93.0	ug/Kg	93			53	145	
	Dibromochloromethane	20	19.8	ug/Kg	99			74	126	
	1,2-Dibromoethane	20	19.6	ug/Kg	98			78	122	
	Tetrachloroethene	20	22.2	ug/Kg	111			73	128	
	Chlorobenzene	20	20.4	ug/Kg	102			79	120	
	Ethyl Benzene	20	20.4	ug/Kg	102			76	122	
	m/p-Xylenes	40	40.8	ug/Kg	102			77	124	
	o-Xylene	20	20.1	ug/Kg	101			77	123	
	Styrene	20	20.2	ug/Kg	101			76	124	
	Bromoform	20	19.0	ug/Kg	95			67	132	
	Isopropylbenzene	20	21.0	ug/Kg	105			68	134	
	1,1,2,2-Tetrachloroethane	20	18.3	ug/Kg	92			70	124	
	1,3-Dichlorobenzene	20	20.4	ug/Kg	102			77	121	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			75	120	
	1,2-Dichlorobenzene	20	20.3	ug/Kg	102			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q2819**	**Analytical Method:**	**SW8260D**
Client:	**First Environment, Inc.**	**Datafile :**	VY023061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0813SBS01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/Kg	98			61	132	
	1,2,4-Trichlorobenzene	20	18.9	ug/Kg	95			67	129	
	1,2,3-Trichlorobenzene	20	18.5	ug/Kg	93			66	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VY023086.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0814SBS01	Dichlorodifluoromethane	20	20.0	ug/Kg	100			29	149	
	Chloromethane	20	23.1	ug/Kg	116			50	136	
	Vinyl chloride	20	23.1	ug/Kg	116			56	135	
	Bromomethane	20	23.3	ug/Kg	117			53	143	
	Chloroethane	20	23.5	ug/Kg	117			59	139	
	Trichlorofluoromethane	20	21.8	ug/Kg	109			62	140	
	1,1,2-Trichlorotrifluoroethane	20	20.9	ug/Kg	104			66	136	
	1,1-Dichloroethene	20	20.0	ug/Kg	100			70	131	
	Acetone	100	94.2	ug/Kg	94			36	164	
	Carbon disulfide	20	20.6	ug/Kg	103			63	132	
	Methyl tert-butyl Ether	20	17.9	ug/Kg	90			73	125	
	Methyl Acetate	20	17.8	ug/Kg	89			53	144	
	Methylene Chloride	20	20.4	ug/Kg	102			70	128	
	trans-1,2-Dichloroethene	20	20.2	ug/Kg	101			74	125	
	1,1-Dichloroethane	20	20.7	ug/Kg	104			76	125	
	Cyclohexane	20	19.4	ug/Kg	97			67	131	
	2-Butanone	100	88.8	ug/Kg	89			51	148	
	Carbon Tetrachloride	20	20.1	ug/Kg	101			70	135	
	cis-1,2-Dichloroethene	20	20.1	ug/Kg	101			77	123	
	Bromochloromethane	20	20.3	ug/Kg	102			78	125	
	Chloroform	20	20.6	ug/Kg	103			78	123	
	1,1,1-Trichloroethane	20	20.5	ug/Kg	103			73	130	
	Methylcyclohexane	20	18.7	ug/Kg	94			66	133	
	Benzene	20	20.3	ug/Kg	102			77	121	
	1,2-Dichloroethane	20	20.0	ug/Kg	100			73	128	
	Trichloroethene	20	20.5	ug/Kg	103			77	123	
	1,2-Dichloropropane	20	20.6	ug/Kg	103			76	123	
	Bromodichloromethane	20	20.0	ug/Kg	100			75	127	
	4-Methyl-2-Pentanone	100	83.5	ug/Kg	84			65	135	
	Toluene	20	19.8	ug/Kg	99			77	121	
	t-1,3-Dichloropropene	20	18.5	ug/Kg	93			71	130	
	cis-1,3-Dichloropropene	20	19.4	ug/Kg	97			74	126	
	1,1,2-Trichloroethane	20	18.7	ug/Kg	94			78	121	
	2-Hexanone	100	81.9	ug/Kg	82			53	145	
	Dibromochloromethane	20	18.8	ug/Kg	94			74	126	
	1,2-Dibromoethane	20	18.5	ug/Kg	93			78	122	
	Tetrachloroethene	20	21.5	ug/Kg	108			73	128	
	Chlorobenzene	20	19.7	ug/Kg	99			79	120	
	Ethyl Benzene	20	19.4	ug/Kg	97			76	122	
	m/p-Xylenes	40	38.9	ug/Kg	97			77	124	
	o-Xylene	20	19.0	ug/Kg	95			77	123	
	Styrene	20	19.2	ug/Kg	96			76	124	
	Bromoform	20	18.2	ug/Kg	91			67	132	
	Isopropylbenzene	20	19.3	ug/Kg	97			68	134	
	1,1,2,2-Tetrachloroethane	20	17.2	ug/Kg	86			70	124	
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98			77	121	
	1,4-Dichlorobenzene	20	19.6	ug/Kg	98			75	120	
	1,2-Dichlorobenzene	20	19.2	ug/Kg	96			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **Analytical Method:** SW8260D

Client: First Environment, Inc. **Datafile :** VY023086.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0814SBS01	1,2-Dibromo-3-Chloropropane	20	17.0	ug/Kg	85			61	132	
	1,2,4-Trichlorobenzene	20	17.6	ug/Kg	88			67	129	
	1,2,3-Trichlorobenzene	20	17.3	ug/Kg	86			66	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2819 **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.:	**Q2819**	**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: VW0811SBL01

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: VW032060.D | Lab Sample ID: VW0811SBL01

Date Analyzed: 08/11/2025 | Time Analyzed: 12:18

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
VW0811SBS01	VW0811SBS01	VW032061.D	08/11/2025
VW0811SBSD01	VW0811SBSD01	VW032062.D	08/11/2025
22BP-N	Q2819-01	VW032071.D	08/11/2025
22BP-E	Q2819-02	VW032072.D	08/11/2025
22BP-W	Q2819-03	VW032073.D	08/11/2025
22BP-S	Q2819-04	VW032074.D	08/11/2025
11M-W	Q2819-05	VW032075.D	08/11/2025
11M-S	Q2819-06	VW032076.D	08/11/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0813SBL01

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: VY023060.D | Lab Sample ID: VY0813SBL01

Date Analyzed: 08/13/2025 | Time Analyzed: 10:39

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
VY0813SBS01	VY0813SBS01	VY023061.D	08/13/2025
11M-N	Q2819-07	VY023069.D	08/13/2025
11M-E	Q2819-08	VY023070.D	08/13/2025
84SB-E	Q2819-09	VY023071.D	08/13/2025
84SB-S	Q2819-10	VY023072.D	08/13/2025
84SB-W	Q2819-11	VY023073.D	08/13/2025
17M-S	Q2819-12	VY023074.D	08/13/2025
17M-E	Q2819-13	VY023075.D	08/13/2025
17M-W	Q2819-14	VY023076.D	08/13/2025
38M-N	Q2819-17	VY023079.D	08/13/2025
38M-W	Q2819-18	VY023080.D	08/13/2025
38M-E	Q2819-19	VY023081.D	08/13/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0814SBL01

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: VY023085.D | Lab Sample ID: VY0814SBL01

Date Analyzed: 08/14/2025 | Time Analyzed: 10:50

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
VY0814SBS01	VY0814SBS01	VY023086.D	08/14/2025
84SB-SRE	Q2819-10RE	VY023089.D	08/14/2025
84SB-WRE	Q2819-11RE	VY023090.D	08/14/2025
17M-N	Q2819-15	VY023091.D	08/14/2025
38M-S	Q2819-16	VY023092.D	08/14/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY0819SBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

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-E	Q2819-20	VY023144.D	08/19/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
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
VW0811SBL01	VW0811SBL01	VW032060.D	08/11/2025	12:18
VW0811SBS01	VW0811SBS01	VW032061.D	08/11/2025	12:48
VW0811SBSD01	VW0811SBSD01	VW032062.D	08/11/2025	13:10
22BP-N	Q2819-01	VW032071.D	08/11/2025	16:56
22BP-E	Q2819-02	VW032072.D	08/11/2025	17:18
22BP-W	Q2819-03	VW032073.D	08/11/2025	17:41
22BP-S	Q2819-04	VW032074.D	08/11/2025	18:03
11M-W	Q2819-05	VW032075.D	08/11/2025	18:25
11M-S	Q2819-06	VW032076.D	08/11/2025	18:47
VSTDCCC050EC	VSTDCCC050	VW032078.D	08/11/2025	19:31

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
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

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
Lab File ID: VY023058.D
BFB Injection Date: 08/13/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:21
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	20.3
75	30.0 - 60.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	82.2
175	5.0 - 9.0% of mass 174	6.1 (7.4) 1
176	95.0 - 101.0% of mass 174	79.6 (96.9) 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
VSTDCCC050	VSTDCCC050	VY023059.D	08/13/2025	09:37
VY0813SBL01	VY0813SBL01	VY023060.D	08/13/2025	10:39
VY0813SBS01	VY0813SBS01	VY023061.D	08/13/2025	11:09
11M-N	Q2819-07	VY023069.D	08/13/2025	14:55
11M-E	Q2819-08	VY023070.D	08/13/2025	15:19
84SB-E	Q2819-09	VY023071.D	08/13/2025	15:43
84SB-S	Q2819-10	VY023072.D	08/13/2025	16:06
84SB-W	Q2819-11	VY023073.D	08/13/2025	16:30
17M-S	Q2819-12	VY023074.D	08/13/2025	16:53
17M-E	Q2819-13	VY023075.D	08/13/2025	17:17
17M-W	Q2819-14	VY023076.D	08/13/2025	17:40
38M-N	Q2819-17	VY023079.D	08/13/2025	18:51
38M-W	Q2819-18	VY023080.D	08/13/2025	19:14
38M-E	Q2819-19	VY023081.D	08/13/2025	19:38
VSTDCCC050EC	VSTDCCC050	VY023082.D	08/13/2025	20:00

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
Lab File ID: VY023083.D
BFB Injection Date: 08/14/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 09:48
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	20.5
75	30.0 - 60.0% of mass 95	52.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	84
175	5.0 - 9.0% of mass 174	6.4 (7.6) 1
176	95.0 - 101.0% of mass 174	81.2 (96.6) 1
177	5.0 - 9.0% of mass 176	5.2 (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
VSTDCCC050	VSTDCCC050	VY023084.D	08/14/2025	10:17
VY0814SBL01	VY0814SBL01	VY023085.D	08/14/2025	10:50
VY0814SBS01	VY0814SBS01	VY023086.D	08/14/2025	11:22
84SB-SRE	Q2819-10RE	VY023089.D	08/14/2025	12:50
84SB-WRE	Q2819-11RE	VY023090.D	08/14/2025	13:13
17M-N	Q2819-15	VY023091.D	08/14/2025	13:37
38M-S	Q2819-16	VY023092.D	08/14/2025	14:00
VSTDCCC050EC	VSTDCCC050	VY023109.D	08/14/2025	20:38

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
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-E	Q2819-20	VY023144.D	08/19/2025	12:31
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.: Q2819

Lab File ID: VW032055.D Date Analyzed: 08/11/2025

Instrument ID: MSVOA_W Time Analyzed: 10:09

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	223324	7.96	406973	8.85	378090	11.63
UPPER LIMIT	446648	8.459	813946	9.349	756180	12.129
LOWER LIMIT	111662	7.459	203487	8.349	189045	11.129
EPA SAMPLE NO.						
22BP-N	179118	7.97	369689	8.86	349416	11.64
22BP-E	162255	7.96	348088	8.86	335072	11.64
22BP-W	162776	7.97	351013	8.86	336246	11.63
22BP-S	167919	7.96	354178	8.86	340658	11.63
11M-W	160482	7.97	347658	8.85	344119	11.63
11M-S	165877	7.96	348126	8.86	337870	11.63
VW0811SBL01	176404	7.96	391811	8.85	359327	11.64
VW0811SBS01	224181	7.96	427747	8.85	394820	11.63
VW0811SBSD01	226773	7.96	441696	8.85	400240	11.64

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.: Q2819

Lab File ID: VW032055.D Date Analyzed: 08/11/2025

Instrument ID: MSVOA_W Time Analyzed: 10:09

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

	IS4 AREA #	RT #				
12 HOUR STD	178995	13.556				
UPPER LIMIT	357990	14.056				
LOWER LIMIT	89497.5	13.056				
EPA SAMPLE NO.						
22BP-N	149992	13.56				
22BP-E	163221	13.56				
22BP-W	147943	13.56				
22BP-S	157540	13.56				
11M-W	158417	13.56				
11M-S	150514	13.56				
VW0811SBL01	169733	13.56				
VW0811SBS01	191594	13.56				
VW0811SBSD01	195548	13.56				

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.: Q2819

Lab File ID: VY023059.D Date Analyzed: 08/13/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:37

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	535817	7.70	845865	8.61	741859	11.41
UPPER LIMIT	1071630	8.201	1691730	9.109	1483720	11.914
LOWER LIMIT	267909	7.201	422933	8.109	370930	10.914
EPA SAMPLE NO.						
11M-N	499481	7.71	998493	8.61	877177	11.41
11M-E	520297	7.71	1036801	8.61	905464	11.41
84SB-E	542397	7.71	1071198	8.61	903366	11.41
84SB-S	616963	7.71	1186470	8.61	951178	11.41
84SB-W	153832 *	7.71	260153 *	8.61	196566 *	11.41
17M-S	489566	7.71	943748	8.61	838550	11.41
17M-E	658128	7.71	1324720	8.61	1172539	11.41
17M-W	675805	7.70	1293758	8.61	1059306	11.41
38M-N	669452	7.71	1354583	8.61	1228757	11.41
38M-W	629431	7.71	1263312	8.61	1125973	11.41
38M-E	641351	7.71	1276856	8.61	1106347	11.41
VY0813SBL01	552605	7.71	1076478	8.61	906449	11.41
VY0813SBS01	478194	7.71	775826	8.61	675926	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.: Q2819

Lab File ID: VY023059.D Date Analyzed: 08/13/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:37

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

	IS4 AREA #		RT #				
12 HOUR STD	361154		13.346				
UPPER LIMIT	722308		13.846				
LOWER LIMIT	180577		12.846				
EPA SAMPLE NO.							
11M-N	339290		13.34				
11M-E	338962		13.34				
84SB-E	305266		13.34				
84SB-S	298114		13.34				
84SB-W	66820	*	13.34				
17M-S	344922		13.34				
17M-E	487544		13.34				
17M-W	379138		13.34				
38M-N	509432		13.34				
38M-W	453970		13.34				
38M-E	424298		13.34				
VY0813SBL01	384760		13.34				
VY0813SBS01	325106		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.: Q2819

Lab File ID: VY023084.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:17

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	410930	7.71	647551	8.62	582049	11.41
UPPER LIMIT	821860	8.207	1295100	9.116	1164100	11.914
LOWER LIMIT	205465	7.207	323776	8.116	291025	10.914
EPA SAMPLE NO.						
84SB-SRE	511221	7.71	976224	8.61	768763	11.41
84SB-WRE	64668 *	7.71	91288 *	8.62	57705 *	11.41
17M-N	551711	7.71	1101553	8.61	967632	11.41
38M-S	501292	7.71	980075	8.61	813504	11.41
VY0814SBL01	514218	7.71	1013413	8.62	885359	11.41
VY0814SBS01	455827	7.71	734618	8.61	641778	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.: Q2819

Lab File ID: VY023084.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:17

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

	IS4 AREA #		RT #				
12 HOUR STD	290049		13.346				
UPPER LIMIT	580098		13.846				
LOWER LIMIT	145025		12.846				
EPA SAMPLE NO.							
84SB-SRE	212273		13.34				
84SB-WRE	13403	*	13.35				
17M-N	381964		13.34				
38M-S	246483		13.34				
VY0814SBL01	340788		13.35				
VY0814SBS01	309825		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.: Q2819

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-E	627655	7.71	1149795	8.62	978415	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.: Q2819

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-E	336379	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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.9
Sample Wt/Vol:	8.52 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
VW032071.D	1	08/11/25 16:56	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.80	U	0.81	2.80	3.50	ug/Kg
74-87-3	Chloromethane	1.80	U	0.81	1.80	3.50	ug/Kg
75-01-4	Vinyl Chloride	1.80	U	0.56	1.80	3.50	ug/Kg
74-83-9	Bromomethane	2.80	U	0.76	2.80	3.50	ug/Kg
75-00-3	Chloroethane	1.80	U	0.89	1.80	3.50	ug/Kg
75-69-4	Trichlorofluoromethane	2.80	U	0.86	2.80	3.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.80	U	0.75	1.80	3.50	ug/Kg
75-35-4	1,1-Dichloroethene	1.80	U	0.71	1.80	3.50	ug/Kg
67-64-1	Acetone	5.40	J	3.40	14.2	17.7	ug/Kg
75-15-0	Carbon Disulfide	2.80	U	0.75	2.80	3.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.80	U	0.52	1.80	3.50	ug/Kg
79-20-9	Methyl Acetate	2.80	U	1.10	2.80	3.50	ug/Kg
75-09-2	Methylene Chloride	5.70	J	2.50	5.70	7.10	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.80	U	0.61	1.80	3.50	ug/Kg
75-34-3	1,1-Dichloroethane	1.80	U	0.57	1.80	3.50	ug/Kg
110-82-7	Cyclohexane	1.80	U	0.56	1.80	3.50	ug/Kg
78-93-3	2-Butanone	14.2	U	4.60	14.2	17.7	ug/Kg
56-23-5	Carbon Tetrachloride	1.80	U	0.69	1.80	3.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.80	U	0.53	1.80	3.50	ug/Kg
74-97-5	Bromochloromethane	2.80	U	0.81	2.80	3.50	ug/Kg
67-66-3	Chloroform	2.80	U	0.59	2.80	3.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.80	U	0.66	1.80	3.50	ug/Kg
108-87-2	Methylcyclohexane	1.80	U	0.64	1.80	3.50	ug/Kg
71-43-2	Benzene	1.80	U	0.56	1.80	3.50	ug/Kg
107-06-2	1,2-Dichloroethane	1.80	U	0.56	1.80	3.50	ug/Kg
79-01-6	Trichloroethene	1.80	U	0.57	1.80	3.50	ug/Kg
78-87-5	1,2-Dichloropropane	1.80	U	0.64	1.80	3.50	ug/Kg
75-27-4	Bromodichloromethane	1.80	U	0.55	1.80	3.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	8.80	U	2.50	8.80	17.7	ug/Kg
108-88-3	Toluene	1.80	U	0.55	1.80	3.50	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.9
Sample Wt/Vol:	8.52 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
VW032071.D	1	08/11/25 16:56	VW081125

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	3.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.80	U	0.44	1.80	3.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.80	U	0.65	1.80	3.50	ug/Kg
591-78-6	2-Hexanone	8.80	U	2.60	8.80	17.7	ug/Kg
124-48-1	Dibromochloromethane	1.80	U	0.62	1.80	3.50	ug/Kg
106-93-4	1,2-Dibromoethane	1.80	U	0.62	1.80	3.50	ug/Kg
127-18-4	Tetrachloroethene	1.80	U	0.74	1.80	3.50	ug/Kg
108-90-7	Chlorobenzene	1.80	U	0.64	1.80	3.50	ug/Kg
100-41-4	Ethyl Benzene	1.80	U	0.47	1.80	3.50	ug/Kg
179601-23-1	m/p-Xylenes	3.50	U	0.88	3.50	7.10	ug/Kg
95-47-6	o-Xylene	1.80	U	0.58	1.80	3.50	ug/Kg
100-42-5	Styrene	1.80	U	0.50	1.80	3.50	ug/Kg
75-25-2	Bromoform	1.80	U	0.61	1.80	3.50	ug/Kg
98-82-8	Isopropylbenzene	1.80	U	0.55	1.80	3.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.80	U	0.86	1.80	3.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.80	U	1.20	1.80	3.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.80	U	1.10	1.80	3.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.80	U	1.00	1.80	3.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.80	U	1.30	2.80	3.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.80	U	2.10	2.80	3.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.80	U	2.30	2.80	3.50	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.0		71 - 136		104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		78 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.5		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	179000	7.965				
540-36-3	1,4-Difluorobenzene	370000	8.855				
3114-55-4	Chlorobenzene-d5	349000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	150000	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:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	82.9
Sample Wt/Vol:	8.52 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
VW032071.D	1	08/11/25 16:56	VW081125

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\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-N

Quant Time: Aug 12 04:28:04 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

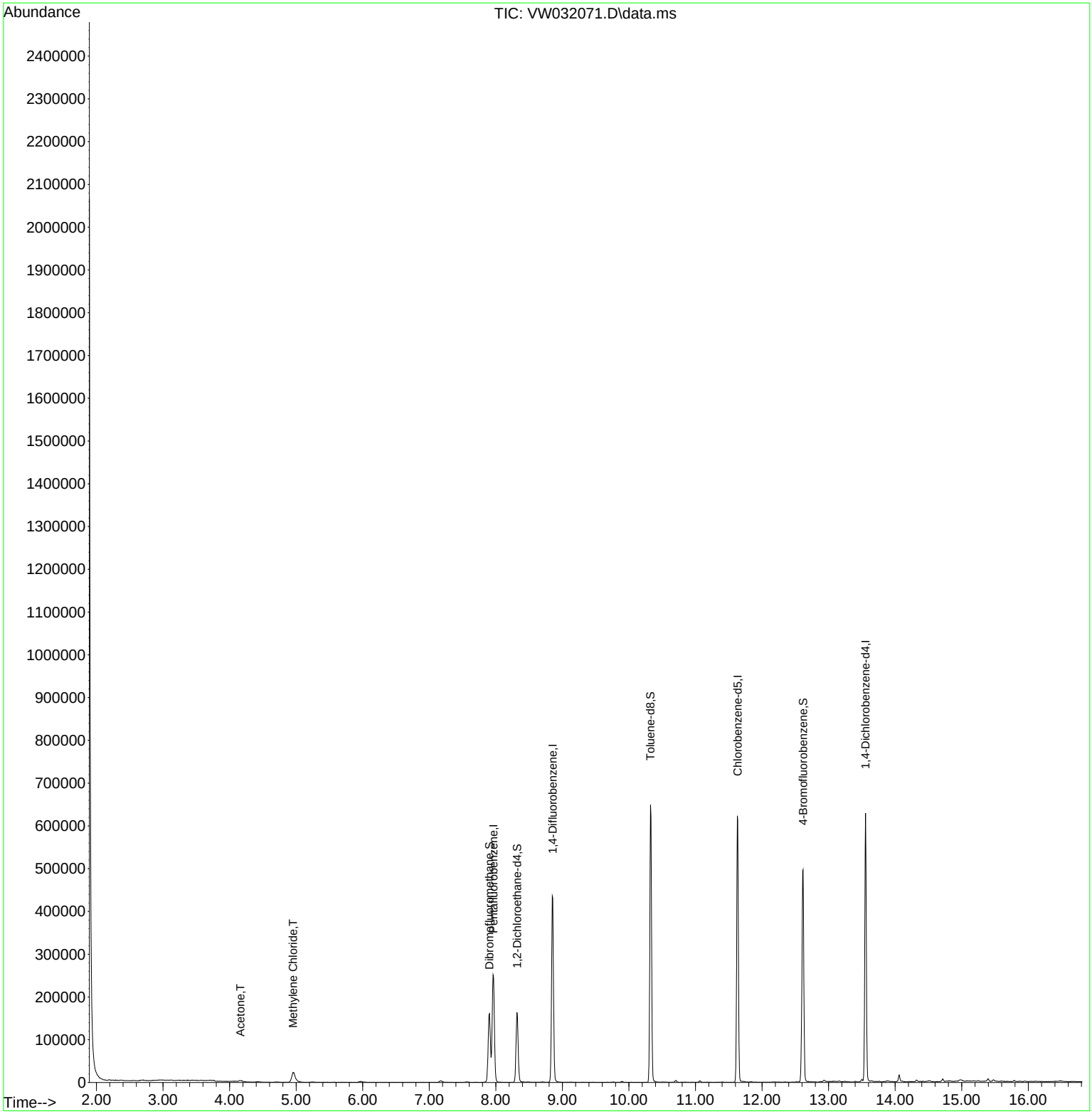
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	179118	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	369689	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	349416	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	149992	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	134686	51.991	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 103.980%			
35) Dibromofluoromethane	7.904	113	122452	51.271	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 102.540%			
50) Toluene-d8	10.325	98	446094	50.499	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.000%			
62) 4-Bromofluorobenzene	12.617	95	157399	48.351	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 96.700%			
Target Compounds						Qvalue
16) Acetone	4.161	43	4561	7.604	ug/l	90
20) Methylene Chloride	4.954	84	22396	8.076	ug/l	97

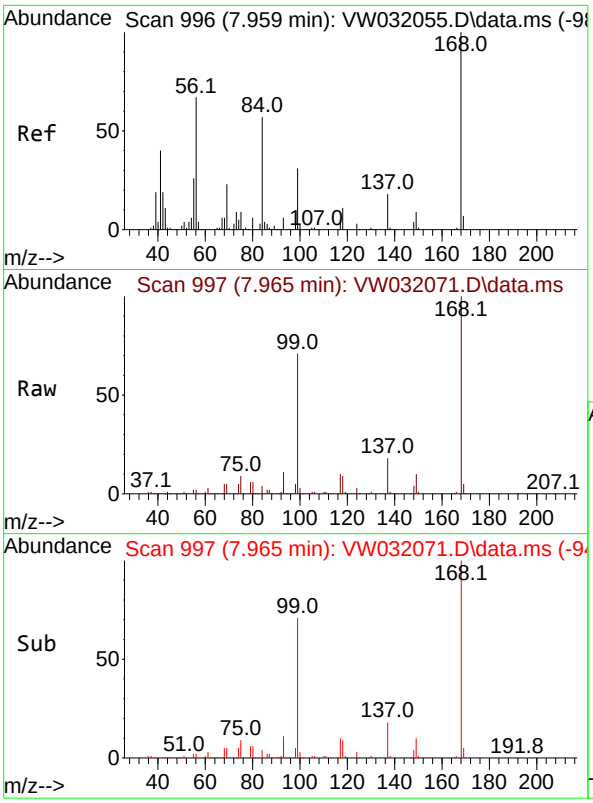
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-N

Quant Time: Aug 12 04:28:04 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



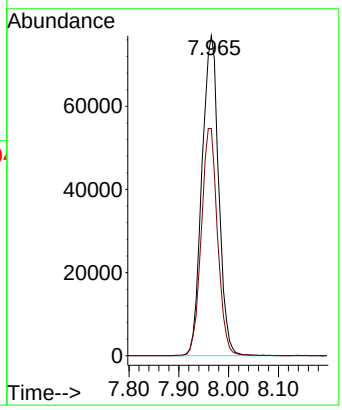


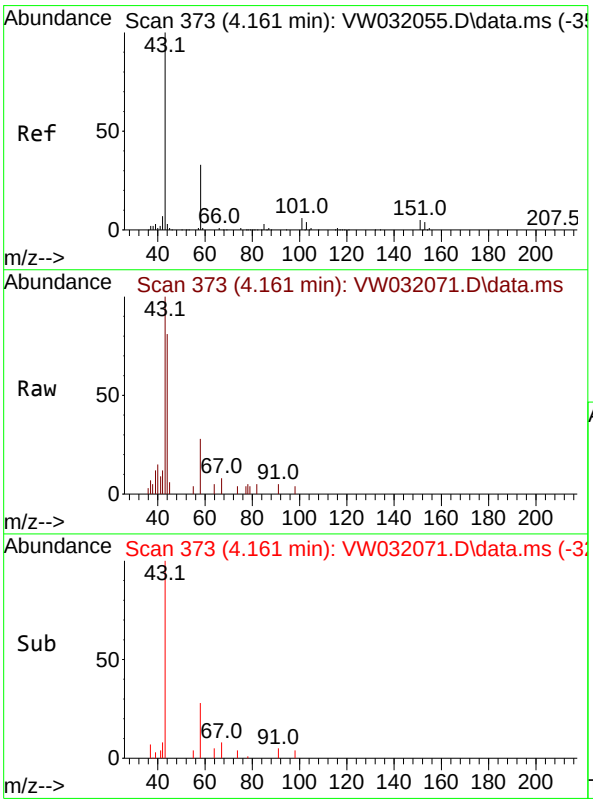
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Instrument :
MSVOA_W
ClientSampleId :
22BP-N

Tgt Ion:168 Resp: 179118

Ion	Ratio	Lower	Upper
168	100		
99	70.9	56.0	84.0

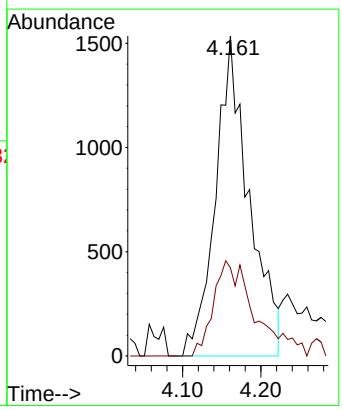


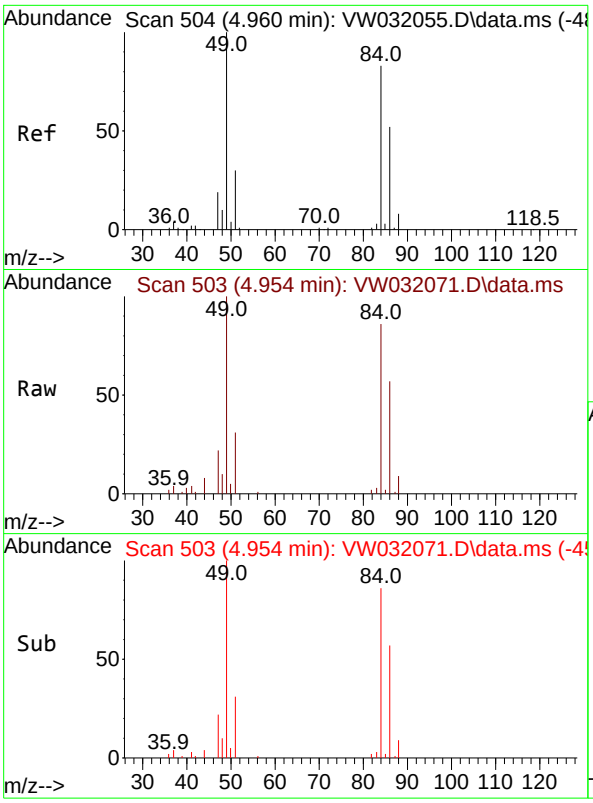


#16
Acetone
Concen: 7.604 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion: 43 Resp: 4561

Ion	Ratio	Lower	Upper
43	100		
58	27.6	26.6	39.8



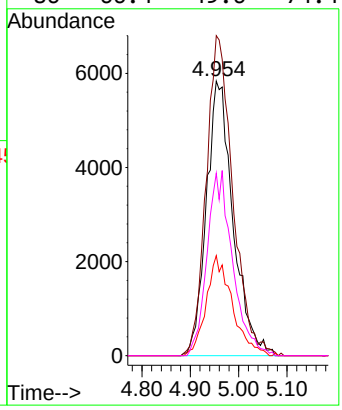


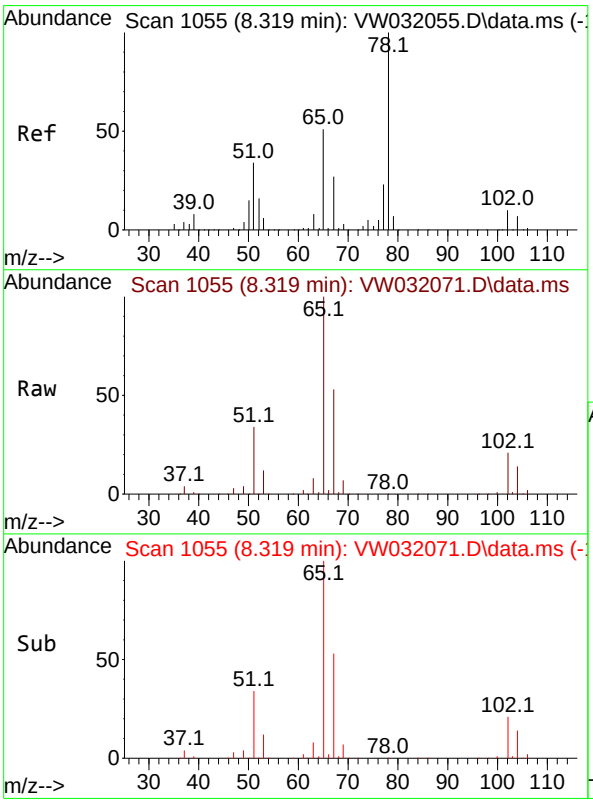
#20
Methylene Chloride
Concen: 8.076 ug/l
RT: 4.954 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Instrument :
MSVOA_W
ClientSampleId :
22BP-N

Tgt Ion: 84 Resp: 22396

Ion	Ratio	Lower	Upper
84	100		
49	116.6	95.9	143.9
51	36.4	28.6	43.0
86	66.4	49.6	74.4

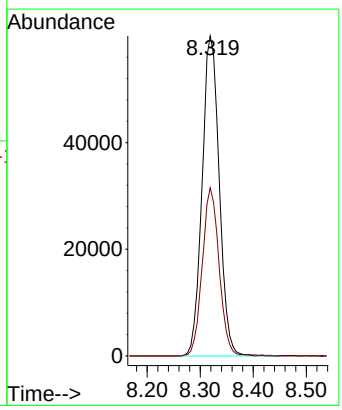


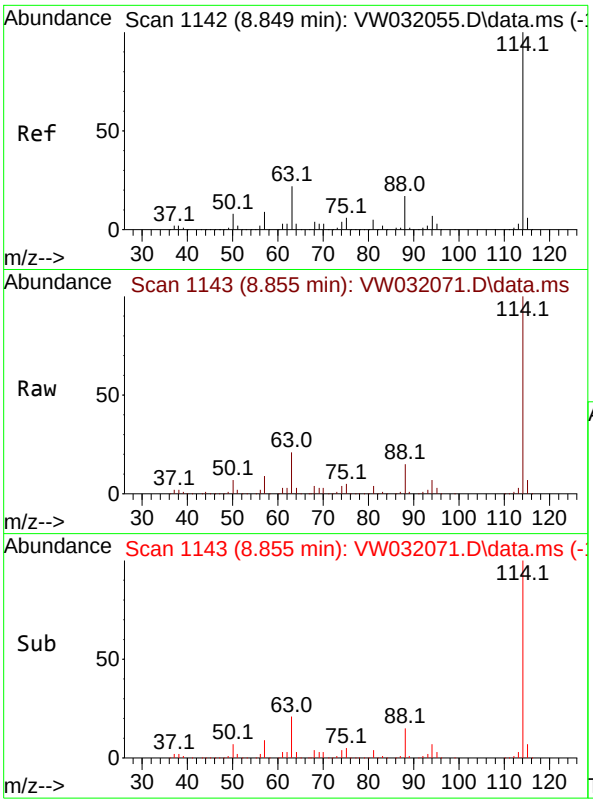


#33
1,2-Dichloroethane-d4
Concen: 51.991 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion: 65 Resp: 134686

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.4



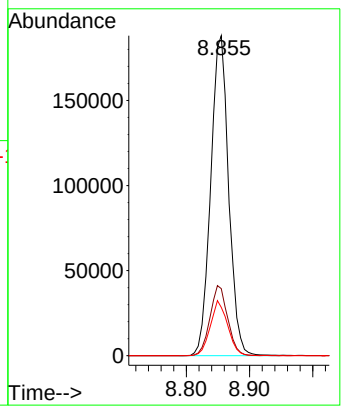


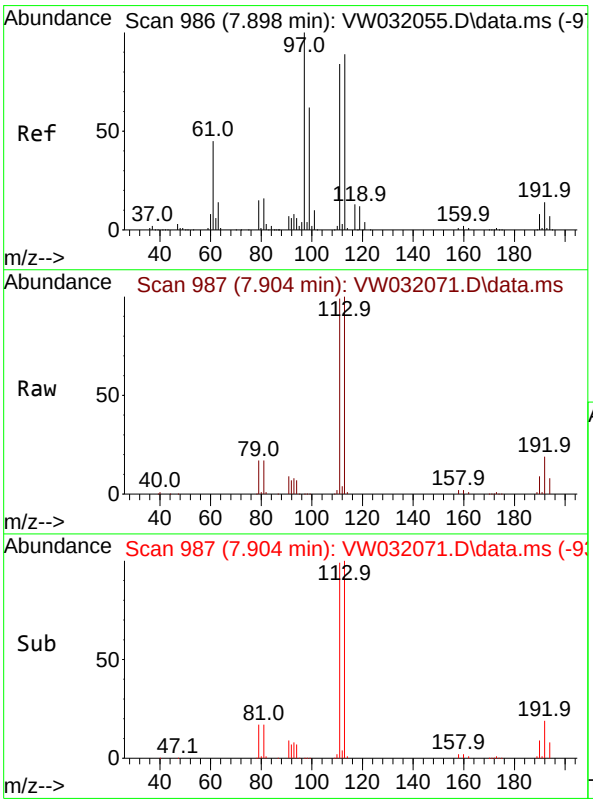
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Instrument :
MSVOA_W
ClientSampleId :
22BP-N

Tgt Ion:114 Resp: 369689

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.0
88	15.1	0.0	33.8

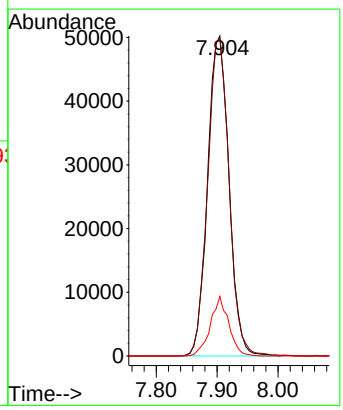


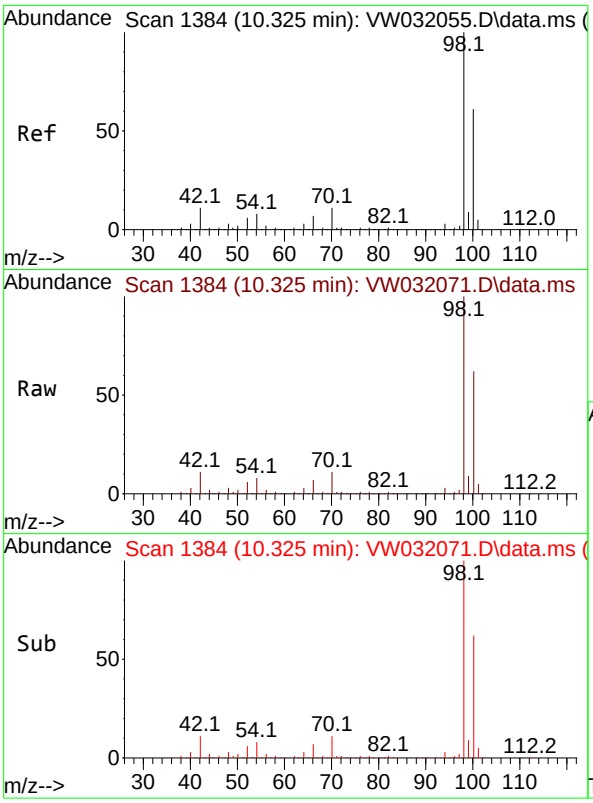


#35
Dibromofluoromethane
Concen: 51.271 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion:113 Resp: 122452

Ion	Ratio	Lower	Upper
113	100		
111	99.7	80.1	120.1
192	16.0	13.1	19.7



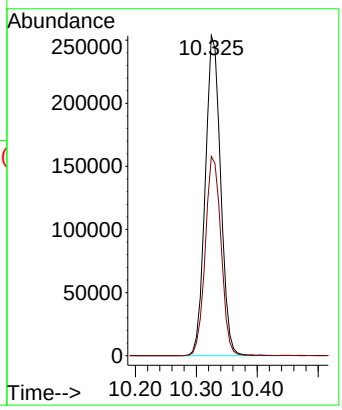


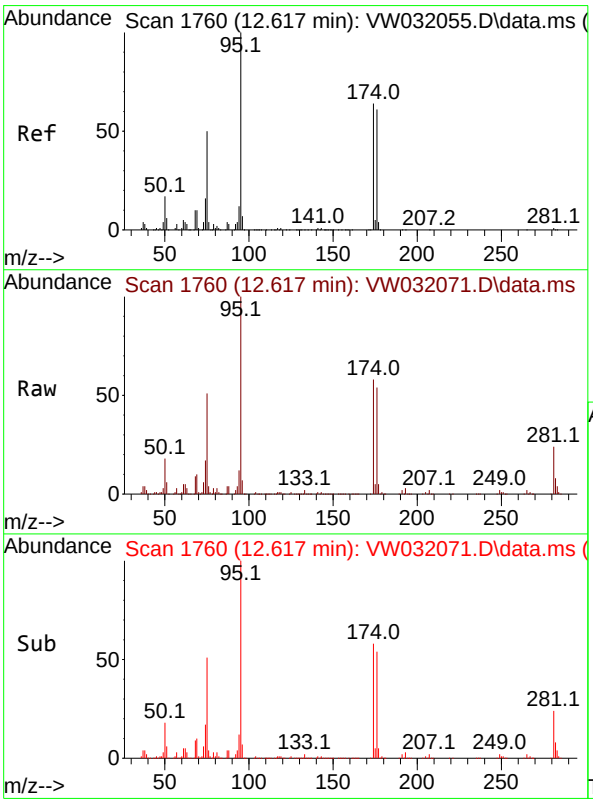
#50
Toluene-d8
Concen: 50.499 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Instrument :
MSVOA_W
ClientSampleId :
22BP-N

Tgt Ion: 98 Resp: 446094

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.1	76.7

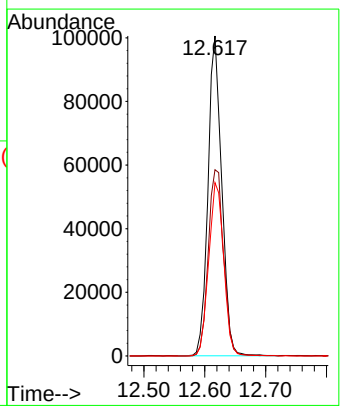


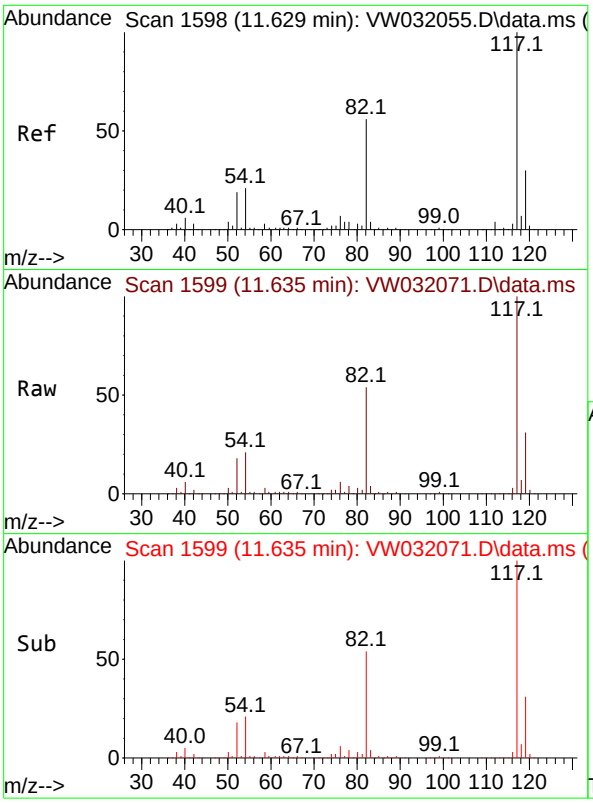


#62
4-Bromofluorobenzene
Concen: 48.351 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion: 95 Resp: 157399

Ion	Ratio	Lower	Upper
95	100		
174	65.4	0.0	129.0
176	59.3	0.0	124.6



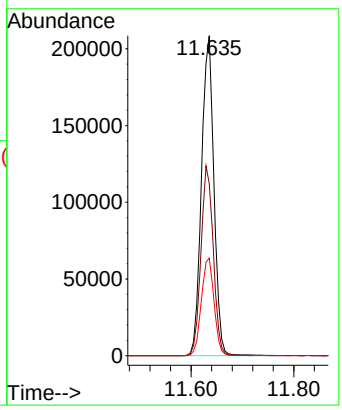


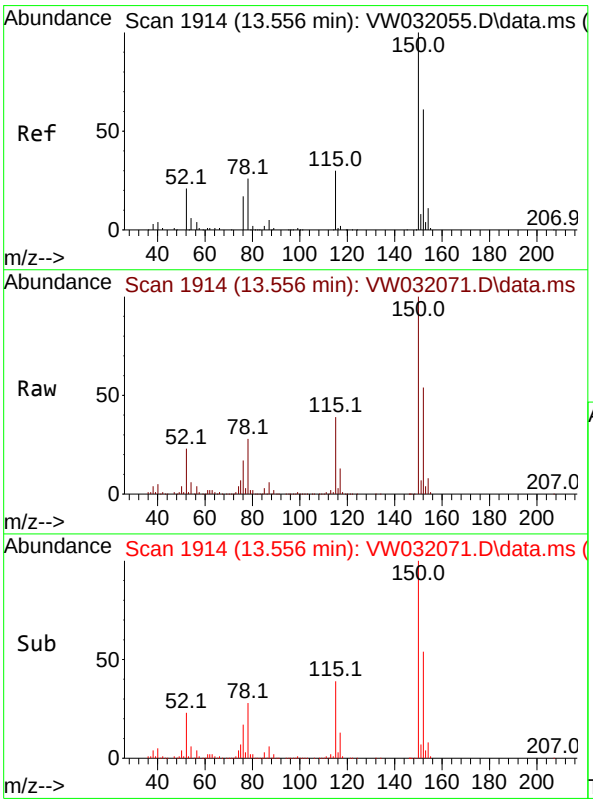
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Instrument :
MSVOA_W
ClientSampleId :
22BP-N

Tgt Ion:117 Resp: 349416

Ion	Ratio	Lower	Upper
117	100		
82	53.8	45.0	67.4
119	30.5	24.2	36.4

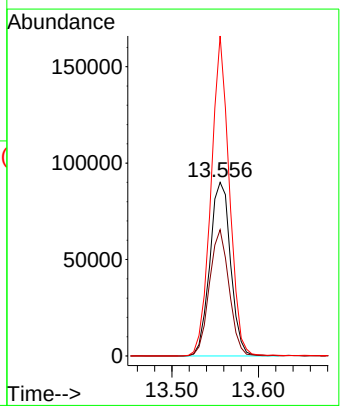




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion:152 Resp: 149992

Ion	Ratio	Lower	Upper
152	100		
115	68.9	32.6	97.8
150	162.5	0.0	359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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: VW032071.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	518	rBV2	23311	90215	7.77%	1.384%
2	7.904	971	987	991	rBV	160257	387598	33.39%	5.948%
3	7.959	991	996	1008	rVB2	250237	580499	50.01%	8.908%
4	8.319	1045	1055	1069	rBV	163302	364317	31.39%	5.591%
5	8.849	1134	1142	1153	rBV	435294	877368	75.59%	13.464%
6	10.325	1376	1384	1393	rBV	649126	1160710	100.00%	17.812%
7	11.629	1590	1598	1610	rBV	622810	1087142	93.66%	16.683%
8	12.617	1751	1760	1770	rBV2	495939	963475	83.01%	14.785%
9	13.556	1907	1914	1926	rVB	626685	978035	84.26%	15.008%
10	14.062	1988	1997	2002	rBV	15850	27254	2.35%	0.418%

Sum of corrected areas: 6516613

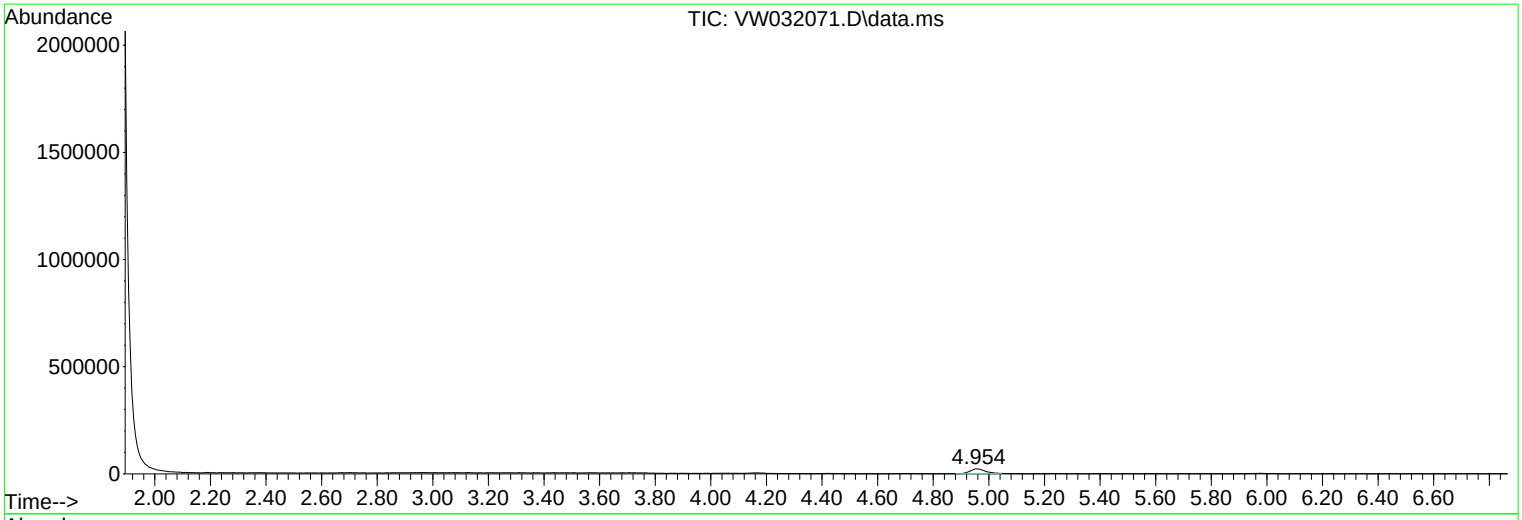
Sample Results: **VW032071.D**

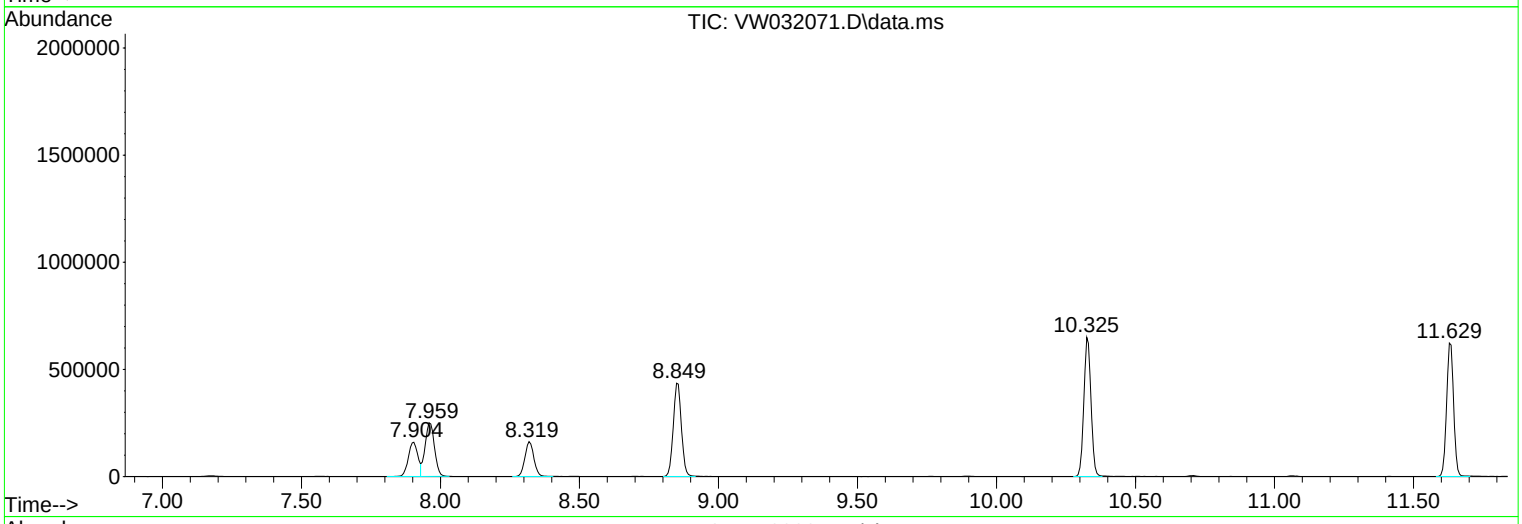
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

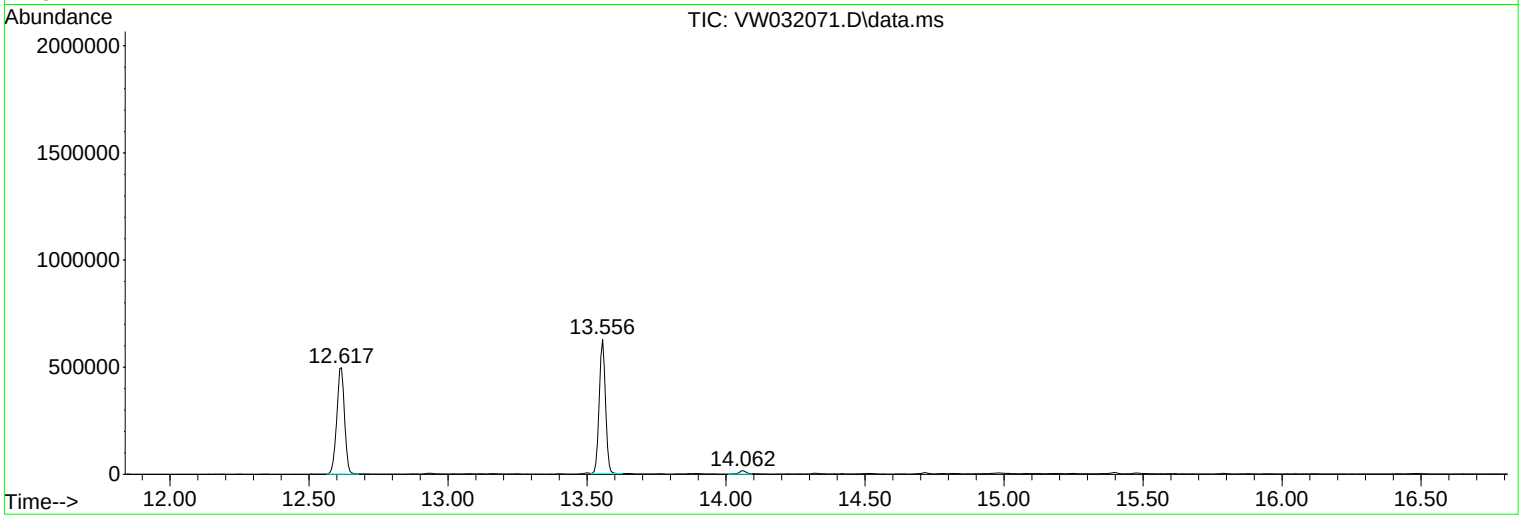
Instrument :
MSVOA_W
ClientSampleId :
22BP-N

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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

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:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	7.28 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
VW032072.D	1	08/11/25 17:18	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.20	U	0.91	3.20	4.00	ug/Kg
74-87-3	Chloromethane	2.00	U	0.91	2.00	4.00	ug/Kg
75-01-4	Vinyl Chloride	2.00	U	0.63	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	8.00	J	3.80	16.0	20.0	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	0.63	2.00	4.00	ug/Kg
78-93-3	2-Butanone	16.0	U	5.20	16.0	20.0	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	0.67	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	0.63	2.00	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.00	U	0.63	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	20.0	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:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	7.28 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
VW032072.D	1	08/11/25 17:18	VW081125

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	20.0	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	0.99	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	2.50	3.20	4.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.9		71 - 136		114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.6		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		79 - 119		109%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	162000	7.959				
540-36-3	1,4-Difluorobenzene	348000	8.855				
3114-55-4	Chlorobenzene-d5	335000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	163000	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:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.7
Sample Wt/Vol:	7.28 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
VW032072.D	1	08/11/25 17:18	VW081125

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\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-E

Quant Time: Aug 12 04:28:26 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

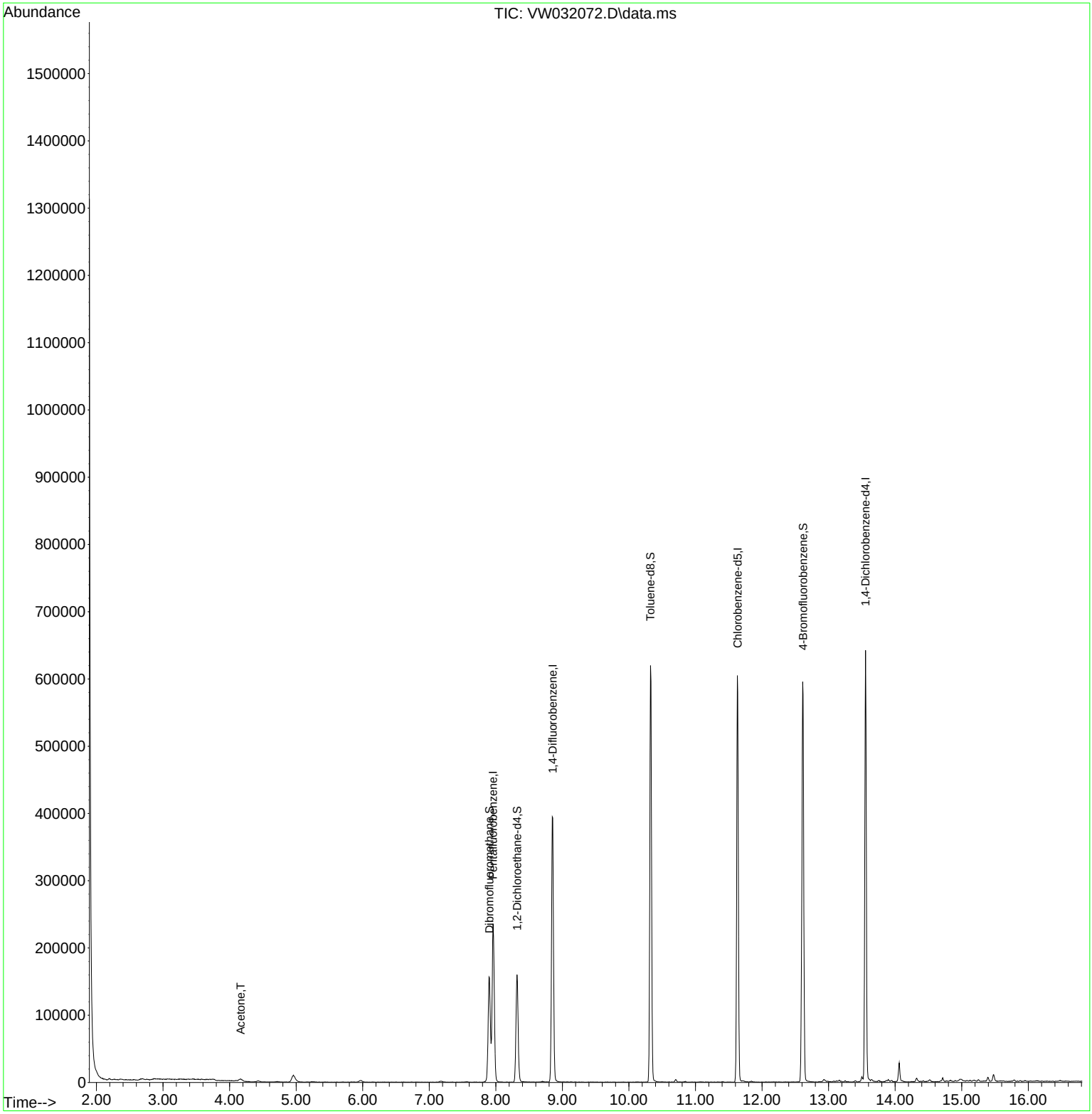
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	162255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	348088	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	335072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	163221	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	133481	56.881	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 113.760%			
35) Dibromofluoromethane	7.904	113	114977	51.128	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 102.260%			
50) Toluene-d8	10.325	98	420764	50.587	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 101.180%			
62) 4-Bromofluorobenzene	12.617	95	167444	54.628	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 109.260%			
Target Compounds						Qvalue
16) Acetone	4.167	43	5391	9.922	ug/l	89

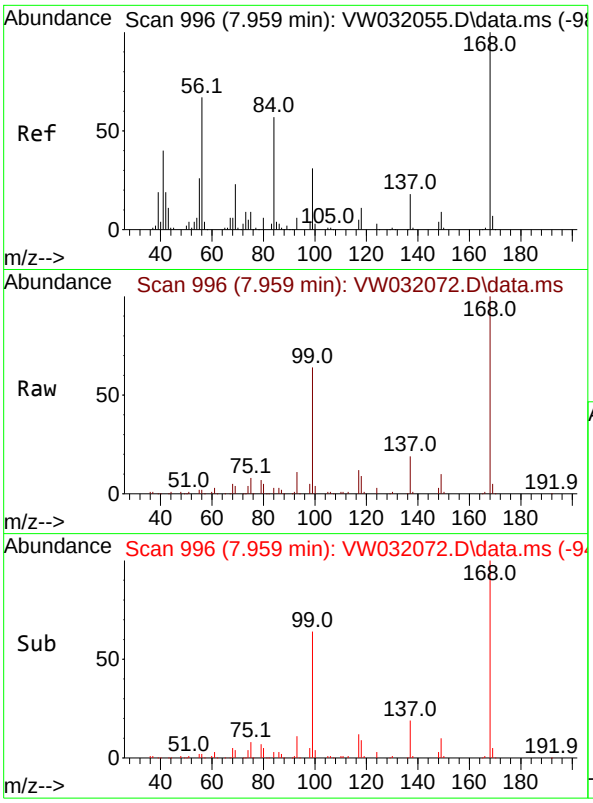
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-E

Quant Time: Aug 12 04:28:26 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



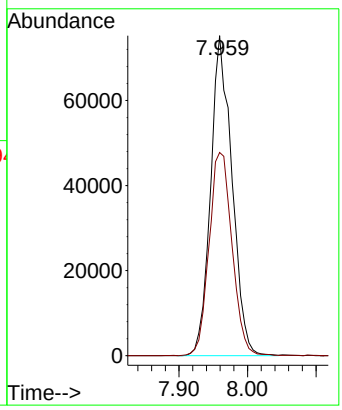


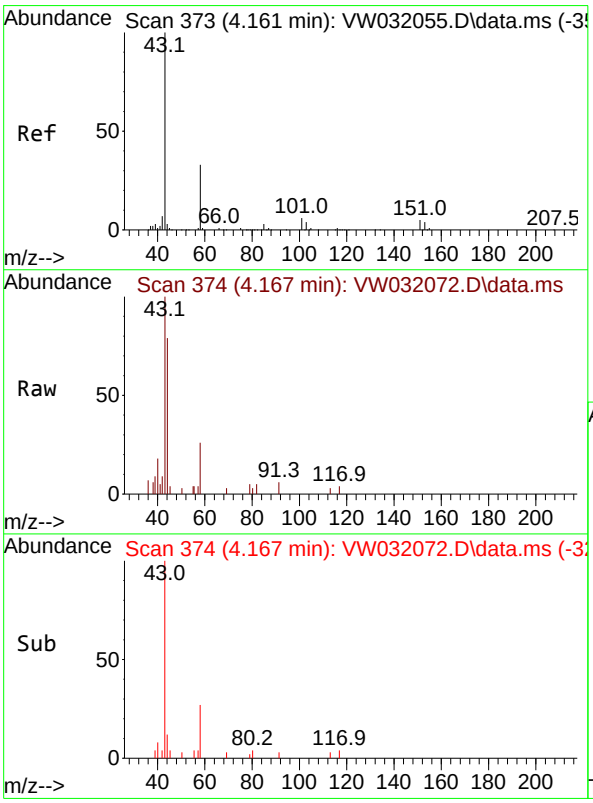
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Instrument :
MSVOA_W
ClientSampleId :
22BP-E

Tgt Ion:168 Resp: 162255

Ion	Ratio	Lower	Upper
168	100		
99	63.5	56.0	84.0

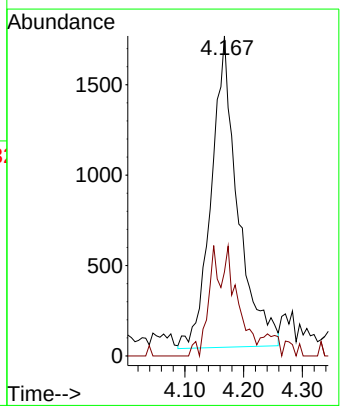


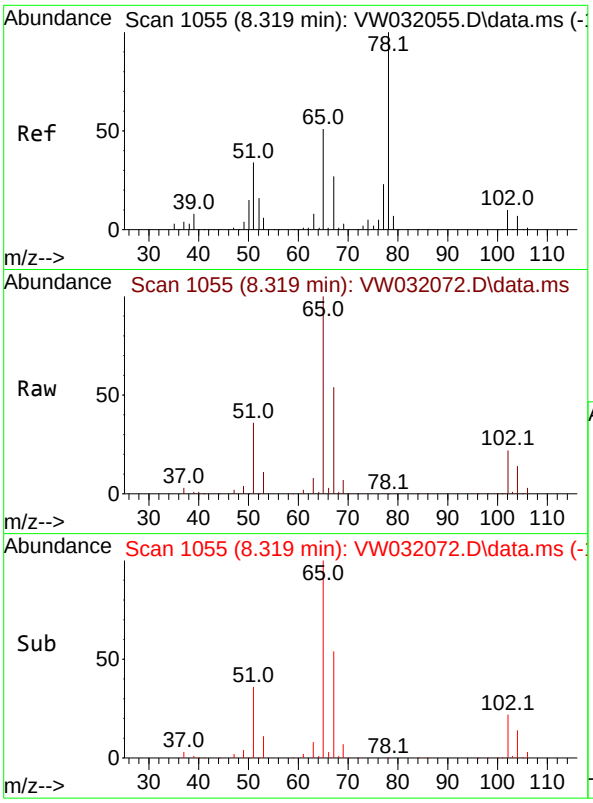


#16
Acetone
Concen: 9.922 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion: 43 Resp: 5391

Ion	Ratio	Lower	Upper
43	100		
58	27.1	26.6	39.8



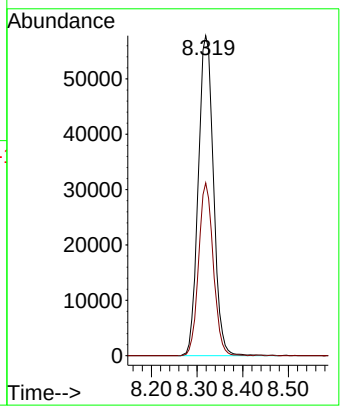


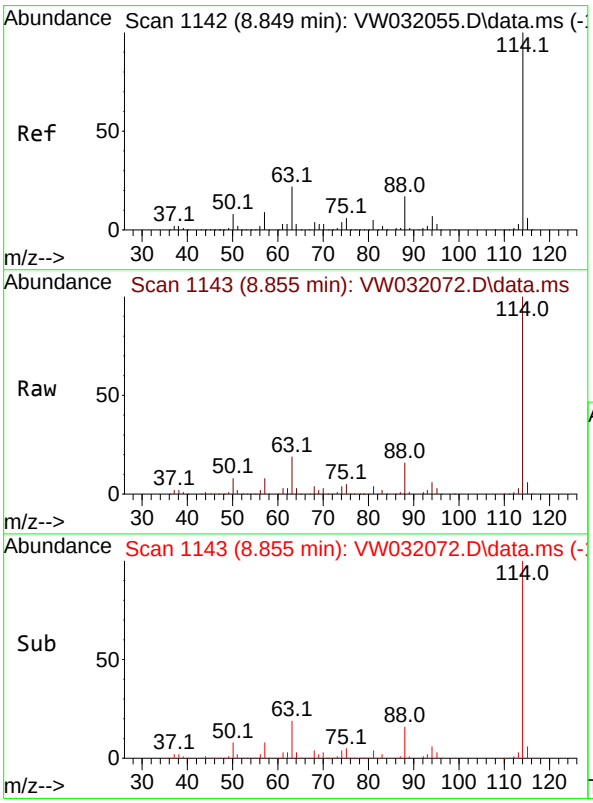
#33
1,2-Dichloroethane-d4
Concen: 56.881 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Instrument :
MSVOA_W
ClientSampleId :
22BP-E

Tgt Ion: 65 Resp: 133481

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	102.4

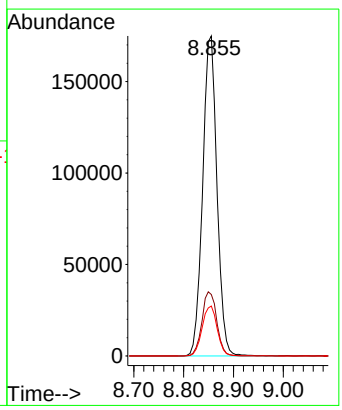


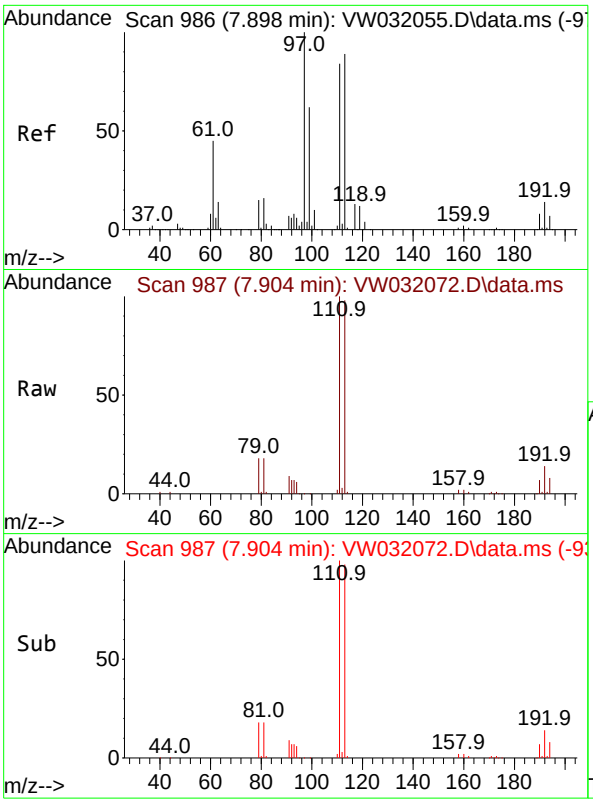


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion:114 Resp: 348088

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	43.0
88	15.6	0.0	33.8



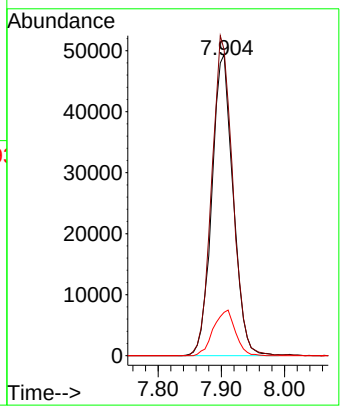


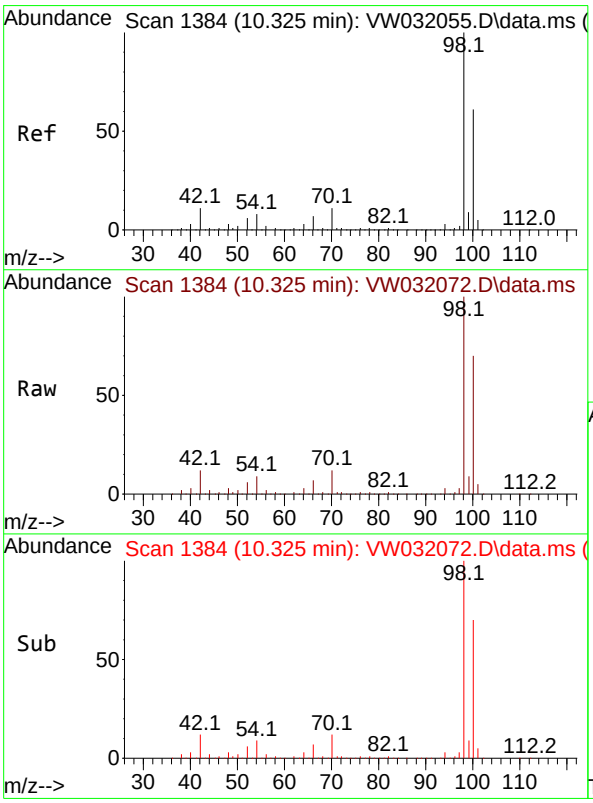
#35
Dibromofluoromethane
Concen: 51.128 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Instrument :
MSVOA_W
ClientSampleId :
22BP-E

Tgt Ion:113 Resp: 114977

Ion	Ratio	Lower	Upper
113	100		
111	105.1	80.1	120.1
192	15.6	13.1	19.7

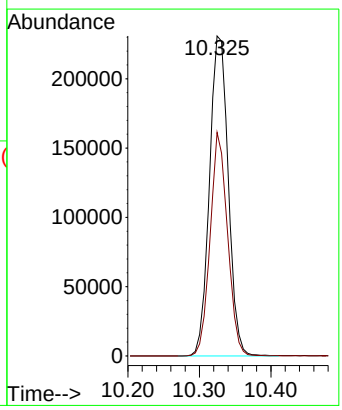


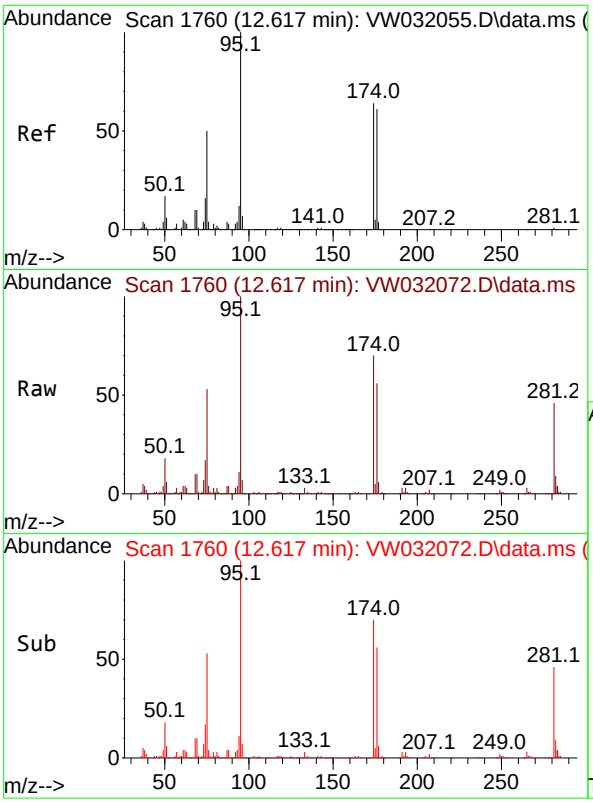


#50
Toluene-d8
Concen: 50.587 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion: 98 Resp: 420764

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.1	76.7



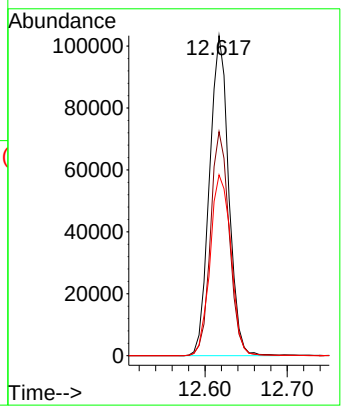


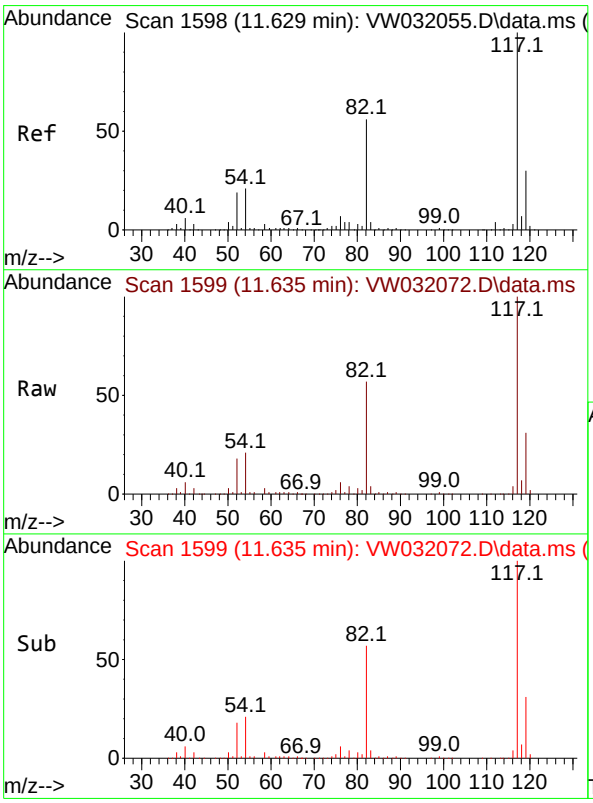
#62
4-Bromofluorobenzene
Concen: 54.628 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Instrument :
MSVOA_W
ClientSampleId :
22BP-E

Tgt Ion: 95 Resp: 167444

Ion	Ratio	Lower	Upper
95	100		
174	68.5	0.0	129.0
176	61.5	0.0	124.6

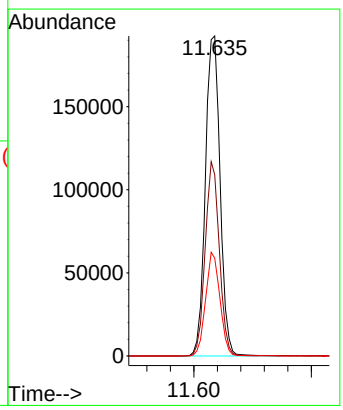


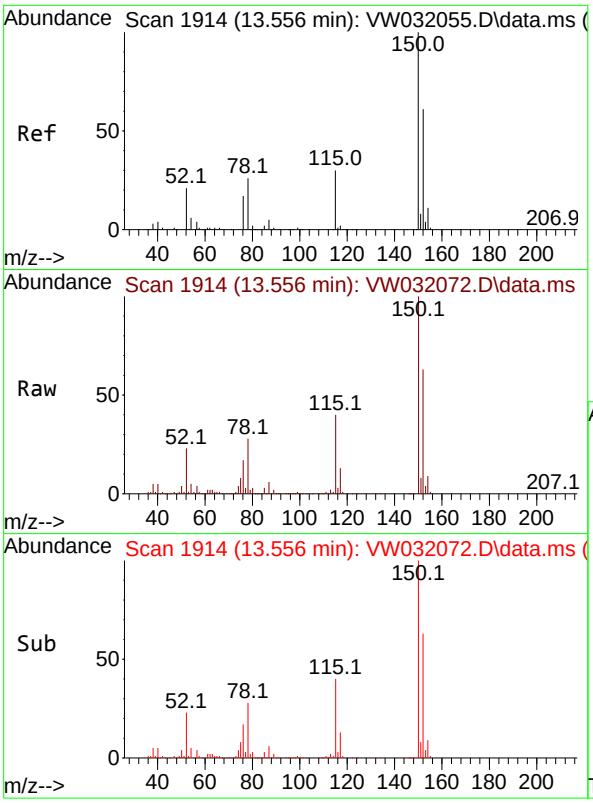


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion:117 Resp: 335072

Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.0	67.4
119	30.6	24.2	36.4



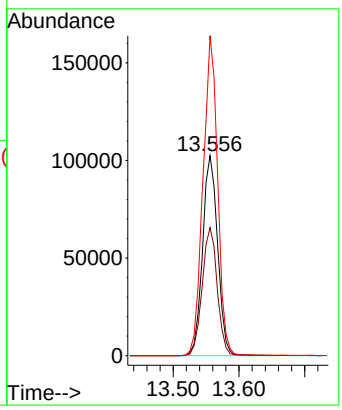


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Instrument :
MSVOA_W
ClientSampleId :
22BP-E

Tgt Ion:152 Resp: 163221

Ion	Ratio	Lower	Upper
152	100		
115	64.0	32.6	97.8
150	155.6	0.0	359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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: VW032072.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	366	374	385	rVB4	3958	14411	1.24%	0.221%
2	4.960	493	504	522	rBV	10472	40143	3.46%	0.615%
3	7.898	971	986	991	rBV2	156549	372873	32.14%	5.709%
4	7.959	991	996	1010	rVB	235146	528740	45.58%	8.096%
5	8.319	1044	1055	1070	rBV	159713	361106	31.13%	5.529%
6	8.849	1133	1142	1155	rBV	394343	814037	70.17%	12.464%
7	10.325	1376	1384	1399	rBV	619383	1113741	96.01%	17.053%
8	11.629	1591	1598	1608	rBV	604159	1031178	88.89%	15.789%
9	12.611	1750	1759	1773	rBV3	594576	1160023	100.00%	17.762%
10	13.501	1894	1905	1908	rBV3	7740	14462	1.25%	0.221%
11	13.556	1908	1914	1926	rVB	640249	1020585	87.98%	15.627%
12	14.062	1990	1997	2002	rBV	27571	41774	3.60%	0.640%
13	15.476	2223	2229	2235	rBV	9640	17797	1.53%	0.273%

Sum of corrected areas: 6530870

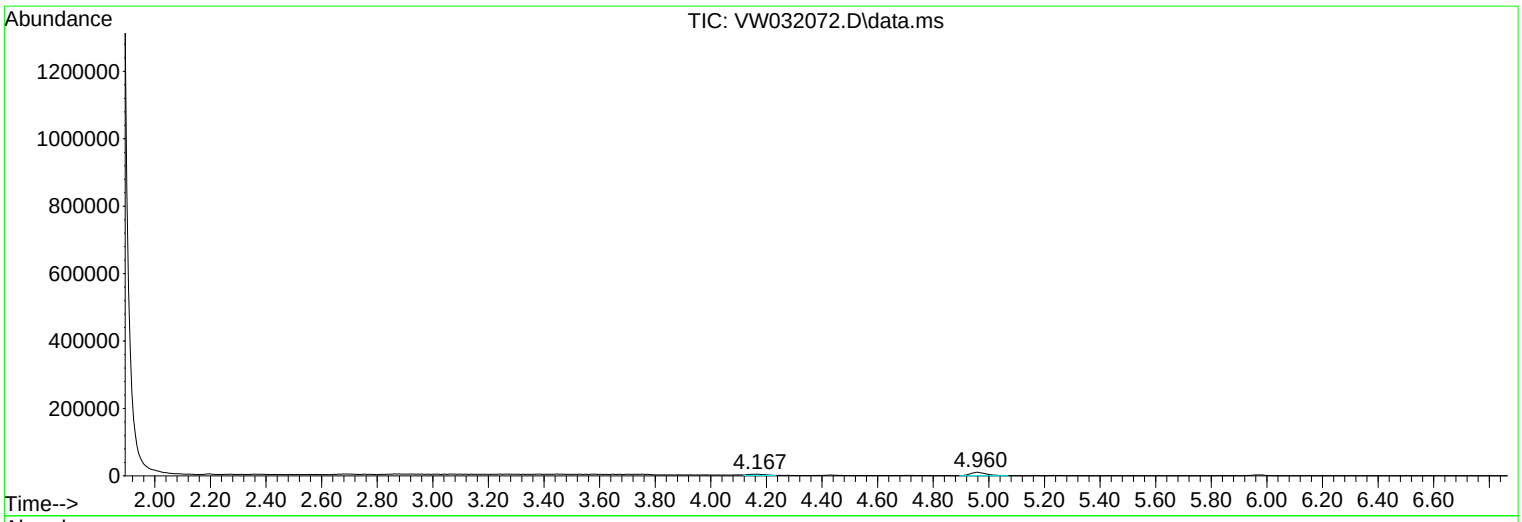
Sample Results: **VW032072.D**

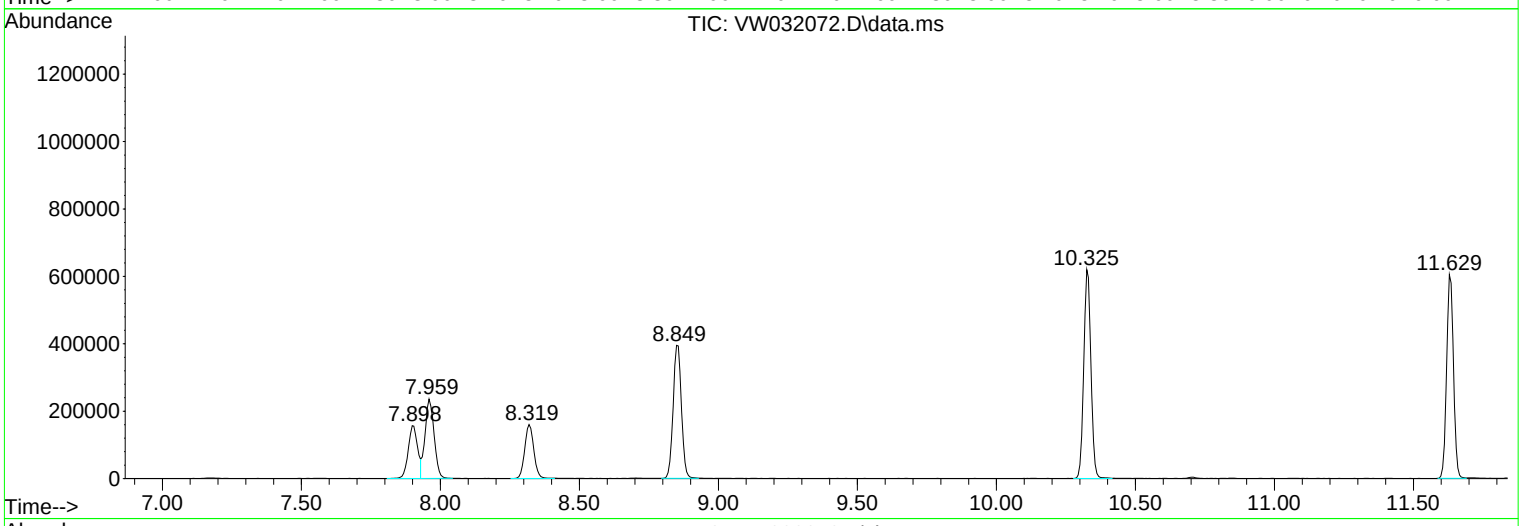
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

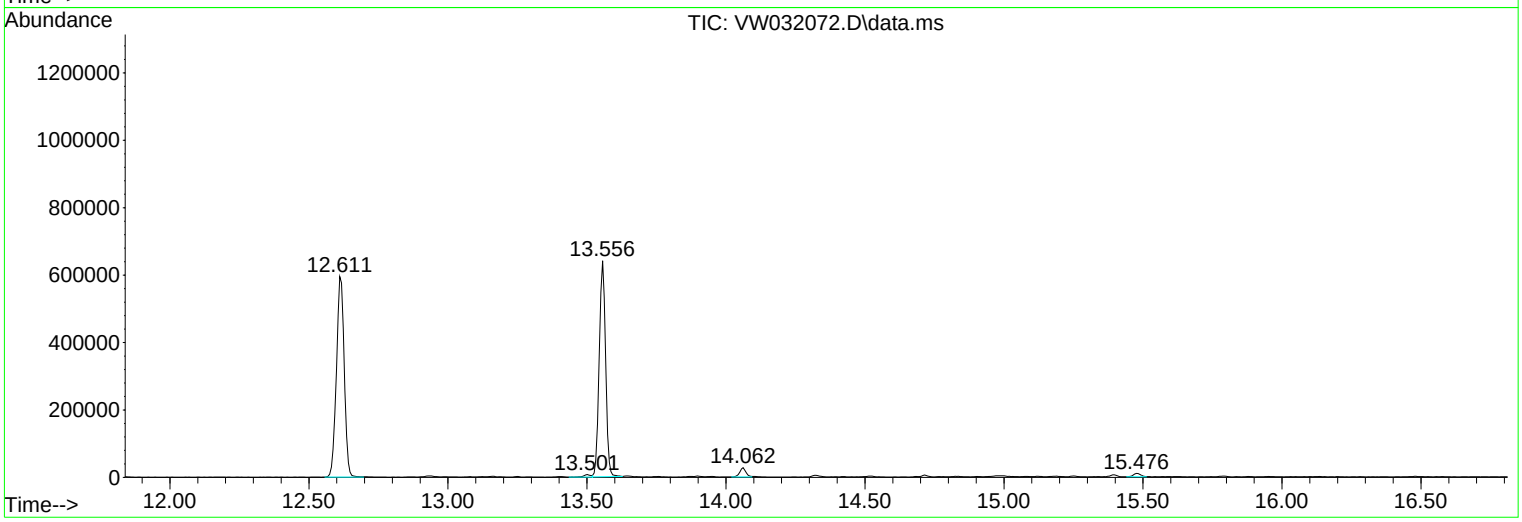
Instrument :
MSVOA_W
ClientSampleId :
22BP-E

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.8
Sample Wt/Vol:	7.53 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
VW032073.D	1	08/11/25 17:41	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.10	U	0.88	3.10	3.90	ug/Kg
74-87-3	Chloromethane	1.90	U	0.88	1.90	3.90	ug/Kg
75-01-4	Vinyl Chloride	1.90	U	0.61	1.90	3.90	ug/Kg
74-83-9	Bromomethane	3.10	U	0.83	3.10	3.90	ug/Kg
75-00-3	Chloroethane	1.90	U	0.98	1.90	3.90	ug/Kg
75-69-4	Trichlorofluoromethane	3.10	U	0.94	3.10	3.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.90	U	0.82	1.90	3.90	ug/Kg
75-35-4	1,1-Dichloroethene	1.90	U	0.77	1.90	3.90	ug/Kg
67-64-1	Acetone	15.5	U	3.70	15.5	19.3	ug/Kg
75-15-0	Carbon Disulfide	1.30	J	0.82	3.10	3.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.90	U	0.56	1.90	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	6.20	U	2.70	6.20	7.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.90	U	0.67	1.90	3.90	ug/Kg
75-34-3	1,1-Dichloroethane	1.90	U	0.62	1.90	3.90	ug/Kg
110-82-7	Cyclohexane	1.90	U	0.61	1.90	3.90	ug/Kg
78-93-3	2-Butanone	15.5	U	5.10	15.5	19.3	ug/Kg
56-23-5	Carbon Tetrachloride	1.90	U	0.75	1.90	3.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.90	U	0.58	1.90	3.90	ug/Kg
74-97-5	Bromochloromethane	3.10	U	0.89	3.10	3.90	ug/Kg
67-66-3	Chloroform	3.10	U	0.65	3.10	3.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.90	U	0.72	1.90	3.90	ug/Kg
108-87-2	Methylcyclohexane	1.90	U	0.70	1.90	3.90	ug/Kg
71-43-2	Benzene	1.90	U	0.61	1.90	3.90	ug/Kg
107-06-2	1,2-Dichloroethane	1.90	U	0.61	1.90	3.90	ug/Kg
79-01-6	Trichloroethene	1.90	U	0.63	1.90	3.90	ug/Kg
78-87-5	1,2-Dichloropropane	1.90	U	0.70	1.90	3.90	ug/Kg
75-27-4	Bromodichloromethane	1.90	U	0.60	1.90	3.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	9.70	U	2.80	9.70	19.3	ug/Kg
108-88-3	Toluene	1.90	U	0.60	1.90	3.90	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.8
Sample Wt/Vol:	7.53 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
VW032073.D	1	08/11/25 17:41	VW081125

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	3.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.90	U	0.48	1.90	3.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.90	U	0.71	1.90	3.90	ug/Kg
591-78-6	2-Hexanone	9.70	U	2.90	9.70	19.3	ug/Kg
124-48-1	Dibromochloromethane	1.90	U	0.67	1.90	3.90	ug/Kg
106-93-4	1,2-Dibromoethane	1.90	U	0.68	1.90	3.90	ug/Kg
127-18-4	Tetrachloroethene	1.90	U	0.81	1.90	3.90	ug/Kg
108-90-7	Chlorobenzene	1.90	U	0.70	1.90	3.90	ug/Kg
100-41-4	Ethyl Benzene	1.90	U	0.52	1.90	3.90	ug/Kg
179601-23-1	m/p-Xylenes	3.90	U	0.96	3.90	7.70	ug/Kg
95-47-6	o-Xylene	1.90	U	0.63	1.90	3.90	ug/Kg
100-42-5	Styrene	1.90	U	0.55	1.90	3.90	ug/Kg
75-25-2	Bromoform	1.90	U	0.67	1.90	3.90	ug/Kg
98-82-8	Isopropylbenzene	1.90	U	0.60	1.90	3.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.90	U	0.94	1.90	3.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.90	U	1.30	1.90	3.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.90	U	1.20	1.90	3.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.90	U	1.10	1.90	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	56.6		71 - 136		113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		78 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	49.7		85 - 116		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		79 - 119		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	163000	7.965				
540-36-3	1,4-Difluorobenzene	351000	8.855				
3114-55-4	Chlorobenzene-d5	336000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	148000	13.556				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.8
Sample Wt/Vol:	7.53 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
VW032073.D	1	08/11/25 17:41	VW081125

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\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-W

Quant Time: Aug 12 04:28:47 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

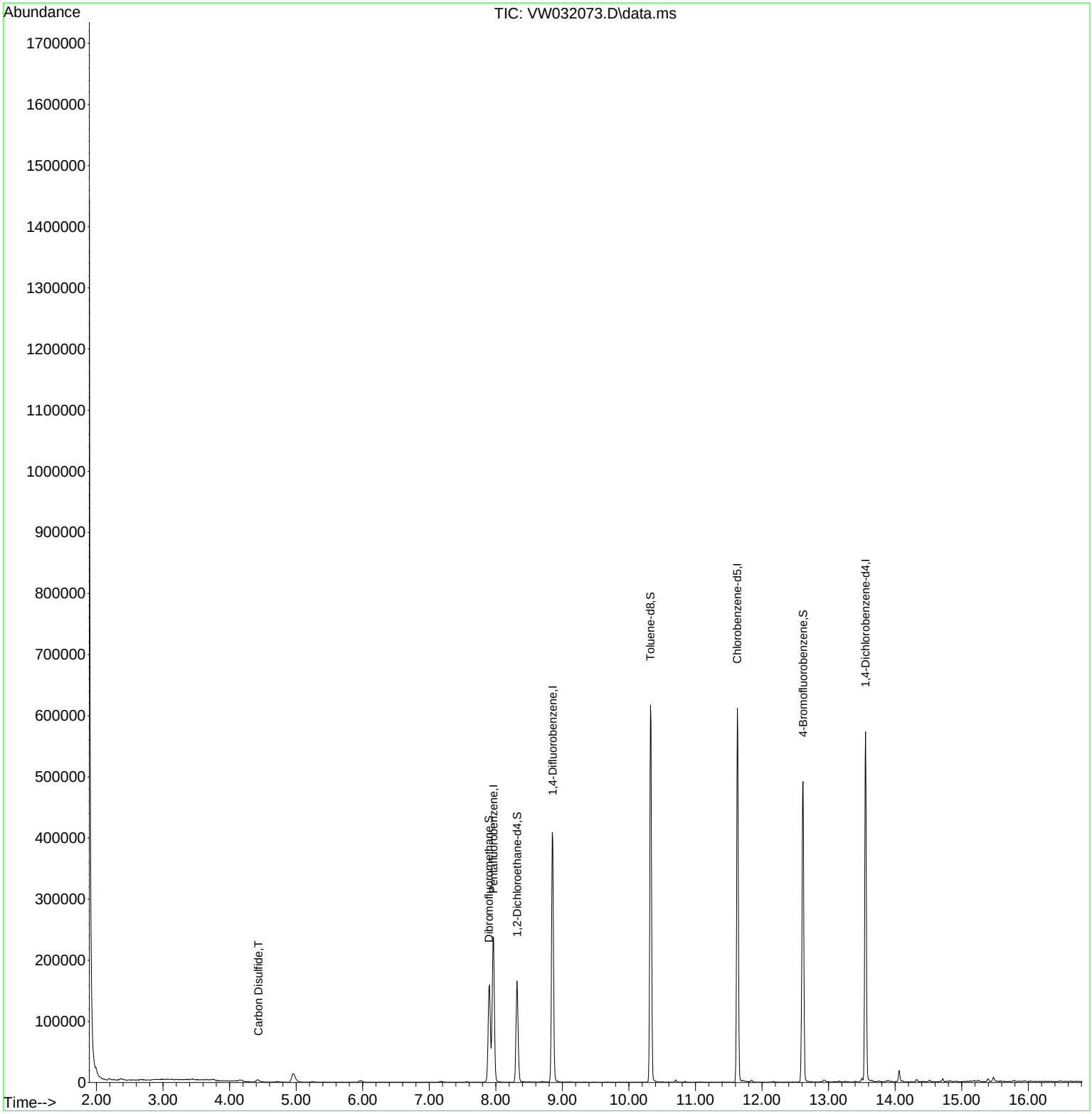
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	162776	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	351013	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	336246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	147943	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	133180	56.571	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 113.140%			
35) Dibromofluoromethane	7.898	113	119888	52.868	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 105.740%			
50) Toluene-d8	10.325	98	416921	49.708	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.420%			
62) 4-Bromofluorobenzene	12.617	95	158734	51.355	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.720%			
Target Compounds						Qvalue
17) Carbon Disulfide	4.436	76	8722	1.646	ug/l	98

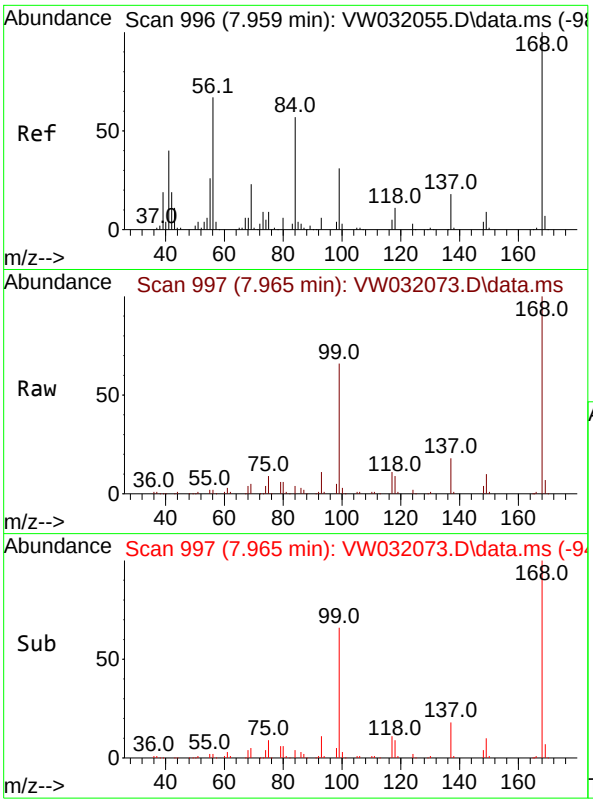
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-W

Quant Time: Aug 12 04:28:47 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



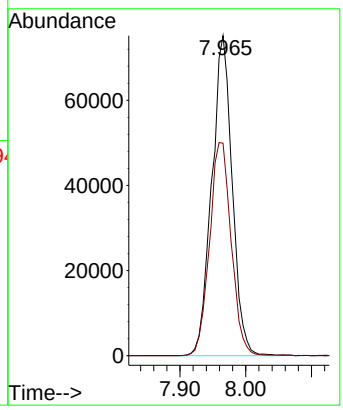


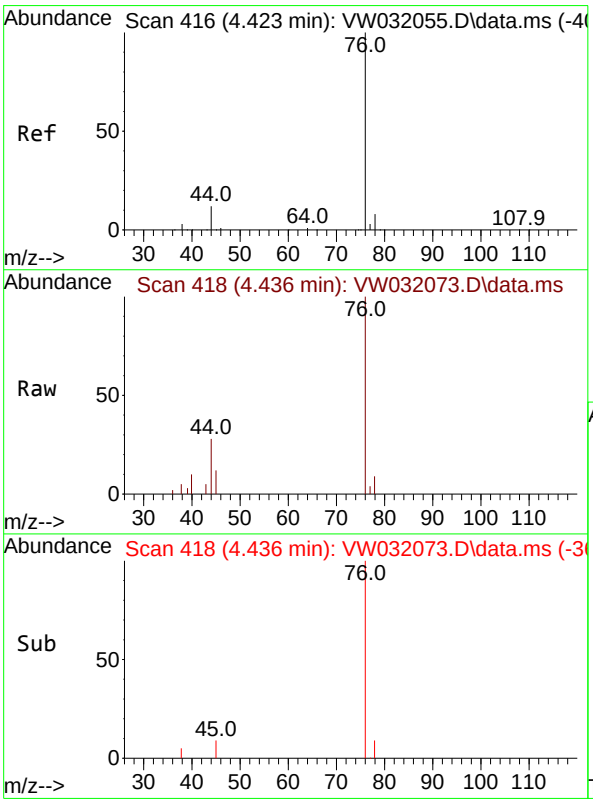
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Instrument :
MSVOA_W
ClientSampleId :
22BP-W

Tgt Ion:168 Resp: 162776

Ion	Ratio	Lower	Upper
168	100		
99	66.4	56.0	84.0

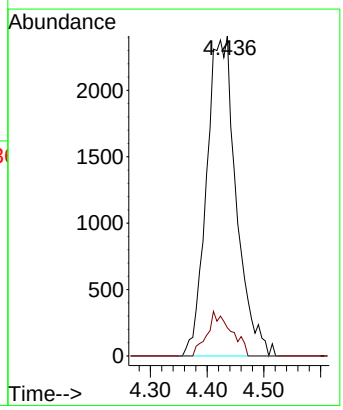


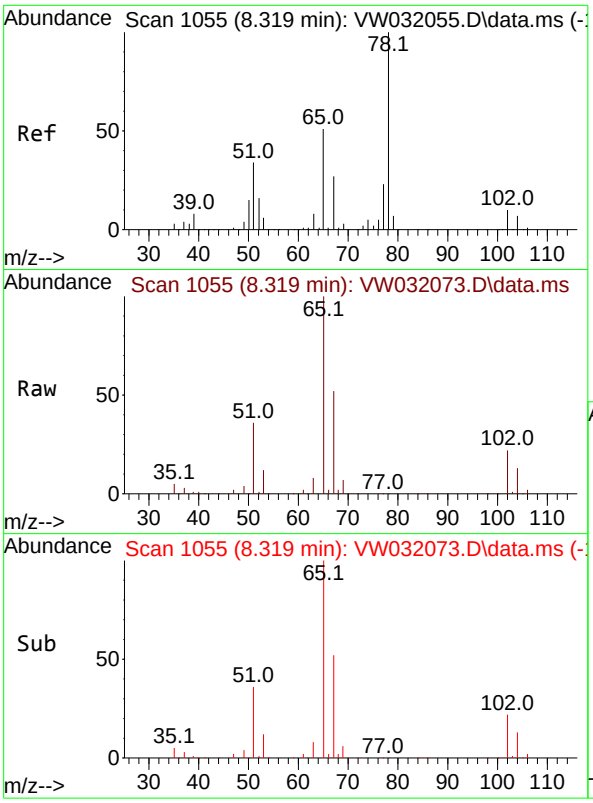


#17
Carbon Disulfide
Concen: 1.646 ug/l
RT: 4.436 min Scan# 418
Delta R.T. 0.012 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion: 76 Resp: 8722

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.4	9.6



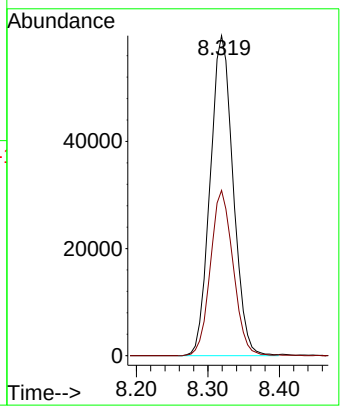


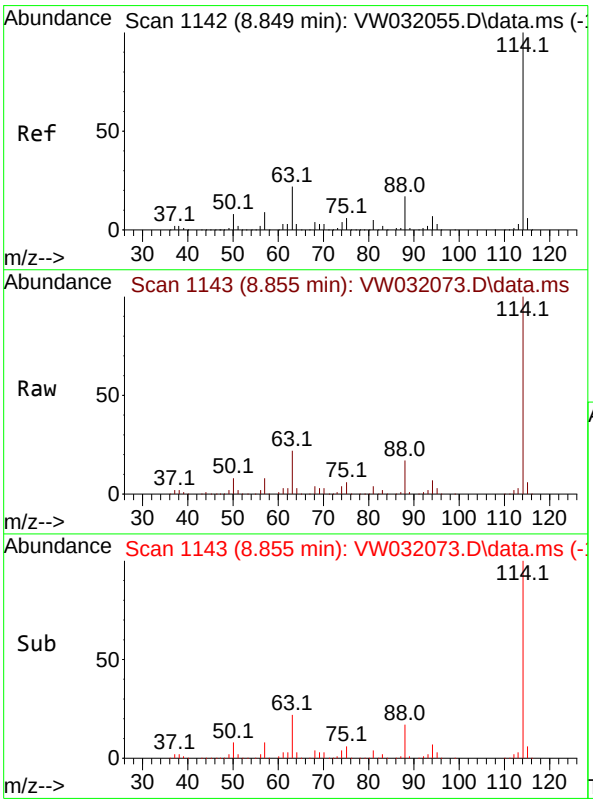
#33
1,2-Dichloroethane-d4
Concen: 56.571 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Instrument :
MSVOA_W
ClientSampleId :
22BP-W

Tgt Ion: 65 Resp: 133180

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

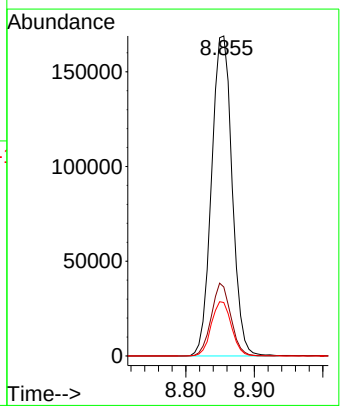


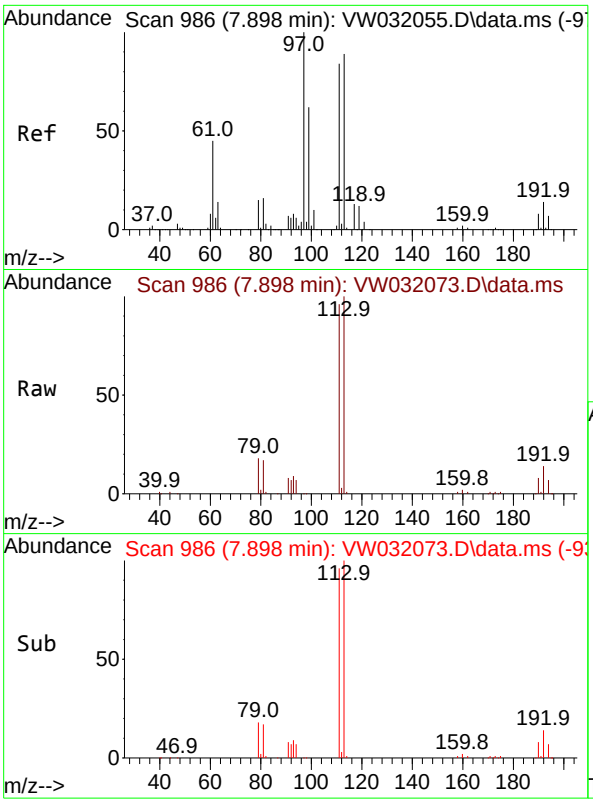


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion:114 Resp: 351013

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.0
88	16.7	0.0	33.8



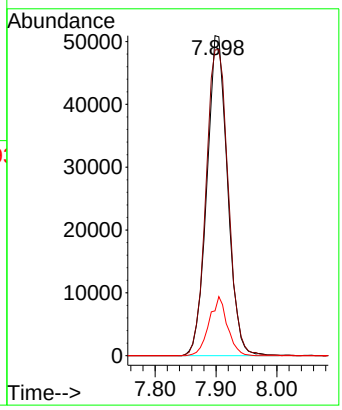


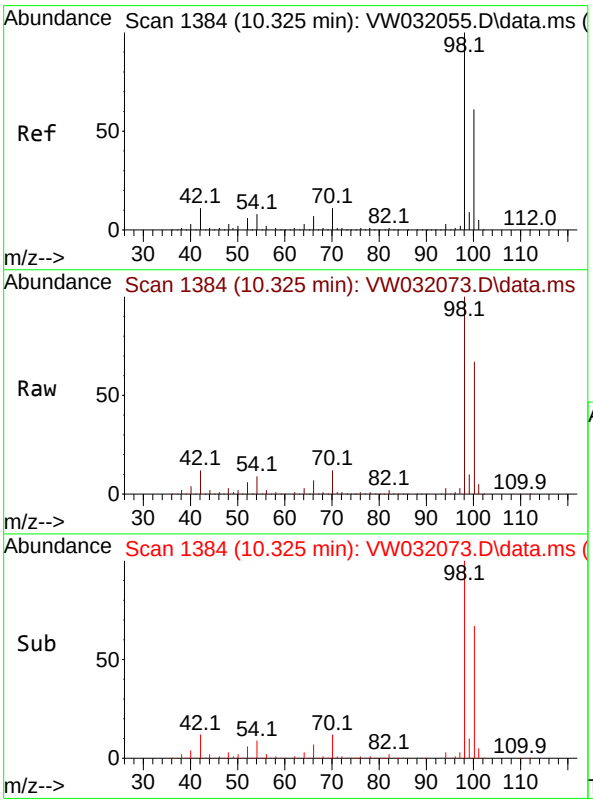
#35
Dibromofluoromethane
Concen: 52.868 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Instrument :
MSVOA_W
ClientSampleId :
22BP-W

Tgt Ion:113 Resp: 119888

Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.1	120.1
192	16.3	13.1	19.7

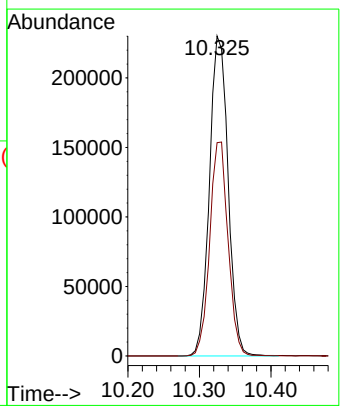


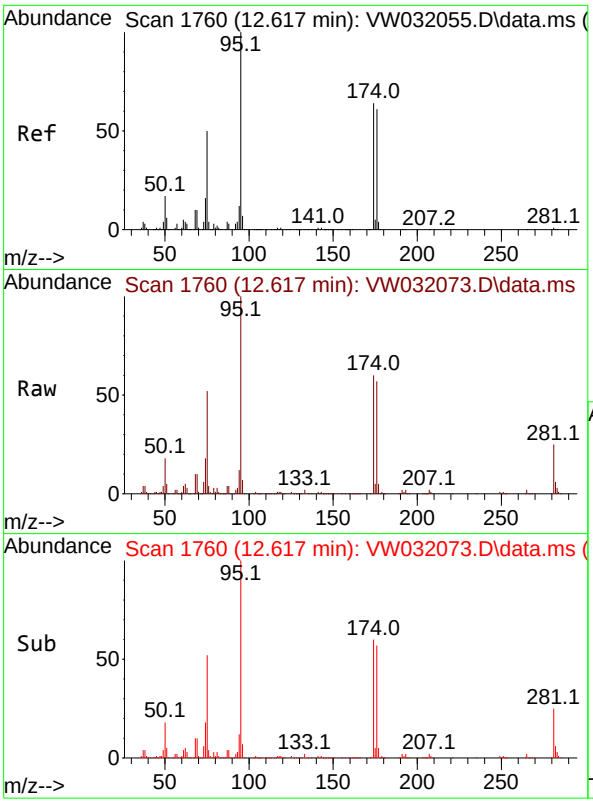


#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion: 98 Resp: 416921

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.1	76.7



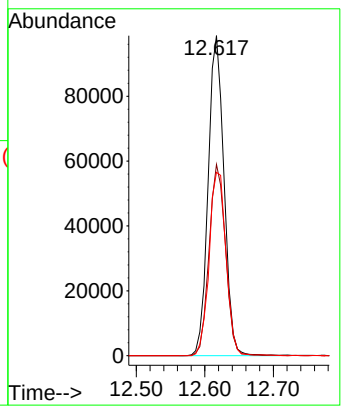


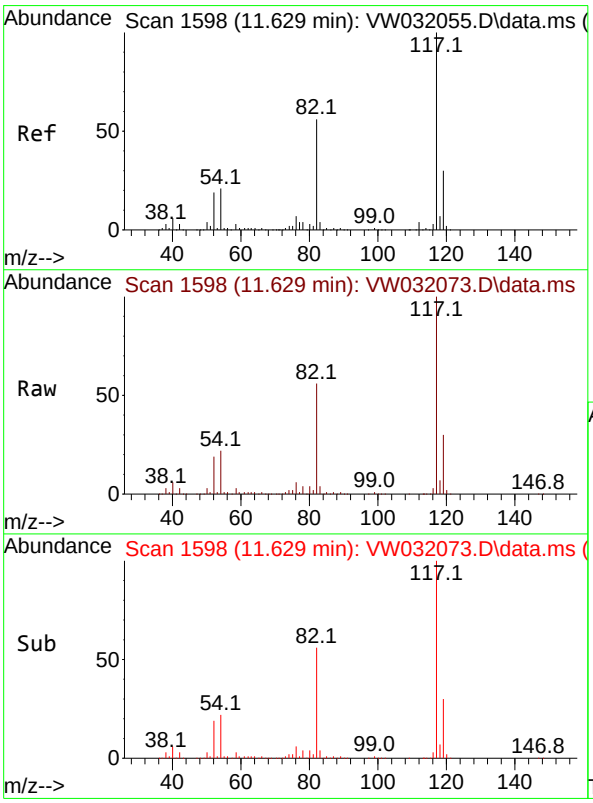
#62
4-Bromofluorobenzene
Concen: 51.355 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Instrument :
MSVOA_W
ClientSampleId :
22BP-W

Tgt Ion: 95 Resp: 158734

Ion	Ratio	Lower	Upper
95	100		
174	61.9	0.0	129.0
176	61.4	0.0	124.6

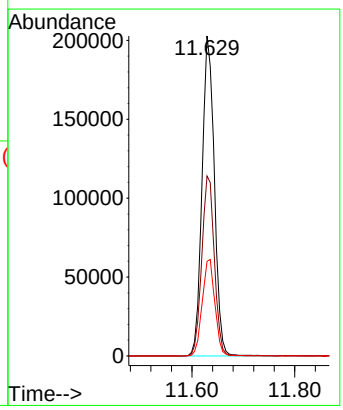


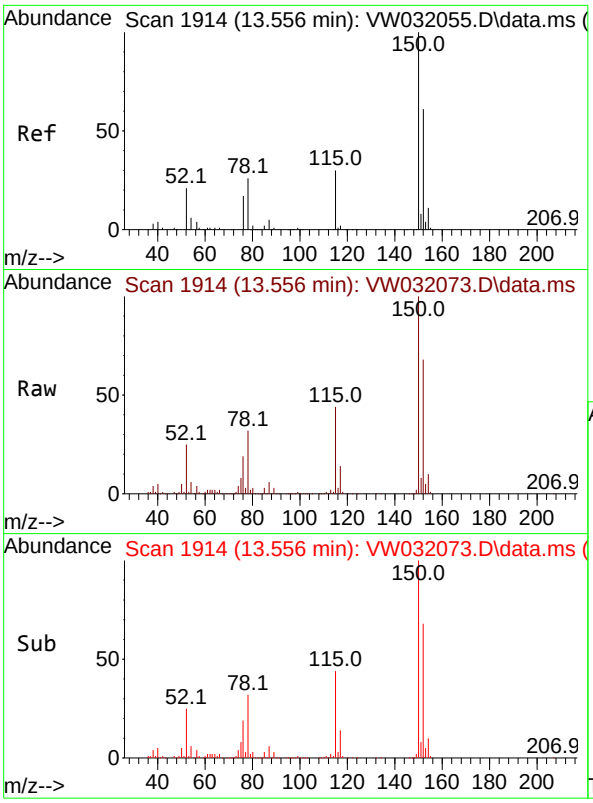


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion:117 Resp: 336246

Ion	Ratio	Lower	Upper
117	100		
82	56.3	45.0	67.4
119	29.6	24.2	36.4



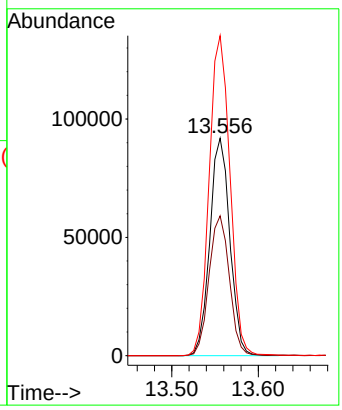


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Instrument :
MSVOA_W
ClientSampleId :
22BP-W

Tgt Ion:152 Resp: 147943

Ion	Ratio	Lower	Upper
152	100		
115	65.2	32.6	97.8
150	152.5	0.0	359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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: VW032073.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	13800	56125	5.06%	0.900%
2	7.904	975	987	991	rBV	157683	379070	34.16%	6.077%
3	7.959	991	996	1011	rVB	236996	540810	48.73%	8.671%
4	8.319	1045	1055	1067	rBV	165725	360950	32.52%	5.787%
5	8.849	1133	1142	1161	rVB	408609	834963	75.23%	13.387%
6	10.325	1376	1384	1402	rBV	616742	1109810	100.00%	17.793%
7	11.629	1591	1598	1608	rBV	611852	1033499	93.12%	16.570%
8	12.617	1750	1760	1770	rBV2	491825	948450	85.46%	15.206%
9	13.556	1908	1914	1926	rVB	571250	929902	83.79%	14.909%
10	14.062	1991	1997	2002	rBV	17877	29402	2.65%	0.471%
11	15.476	2222	2229	2237	rBV	7170	14326	1.29%	0.230%

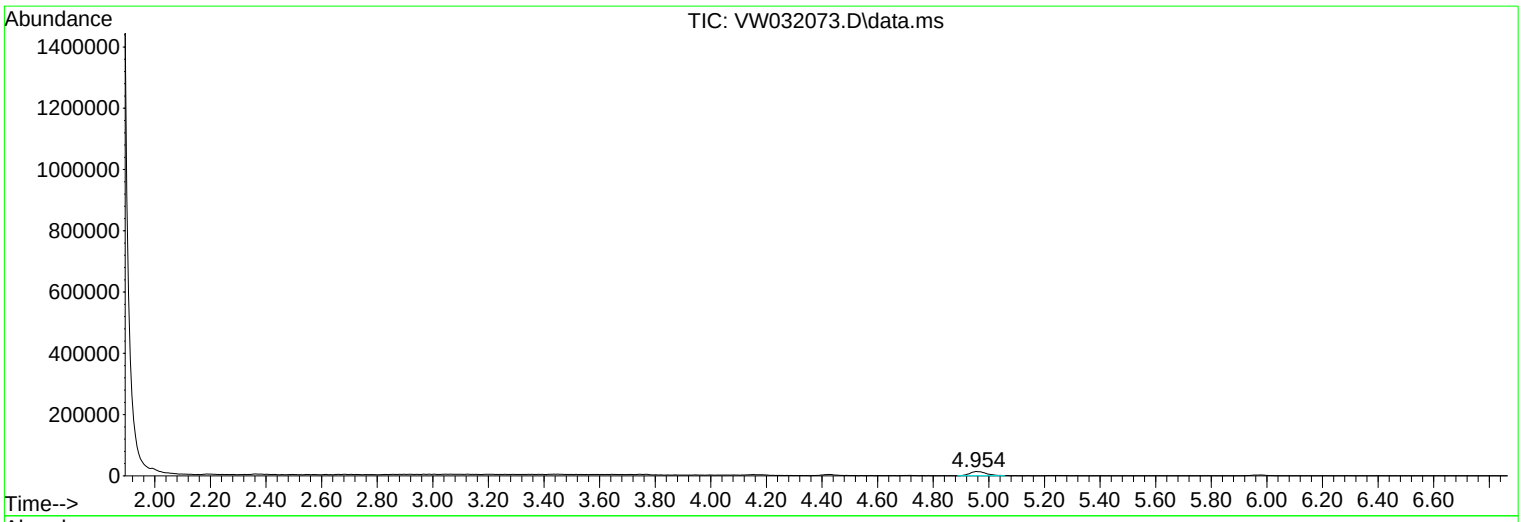
Sum of corrected areas: 6237307

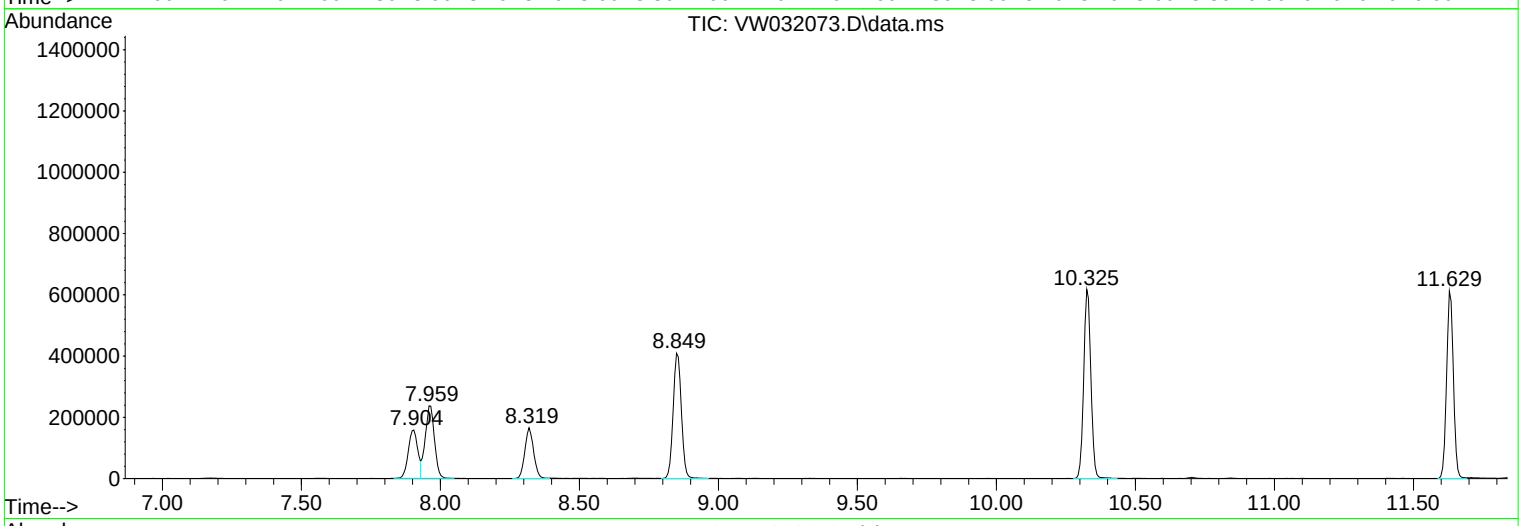
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

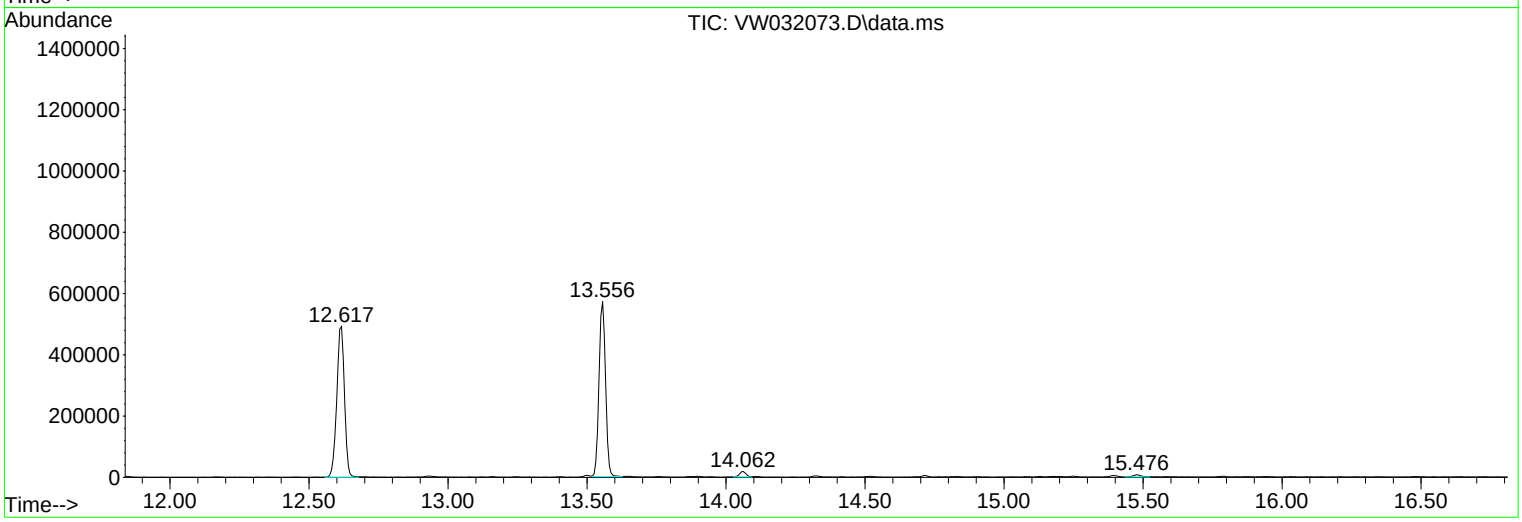
Instrument :
MSVOA_W
ClientSampleId :
22BP-W

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\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.1
Sample Wt/Vol:	5.68 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
VW032074.D	1	08/11/25 18:03	VW081125

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	1.50	J	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	1.10	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:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.1
Sample Wt/Vol:	5.68 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
VW032074.D	1	08/11/25 18:03	VW081125

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	1.00	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	1.40	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	54.0		71 - 136		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		78 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.6		85 - 116		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		79 - 119		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	168000	7.959				
540-36-3	1,4-Difluorobenzene	354000	8.855				
3114-55-4	Chlorobenzene-d5	341000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.556				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/04/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	22BP-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	88.1
Sample Wt/Vol:	5.68 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
VW032074.D	1	08/11/25 18:03	VW081125

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\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-S

Quant Time: Aug 12 04:29:08 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

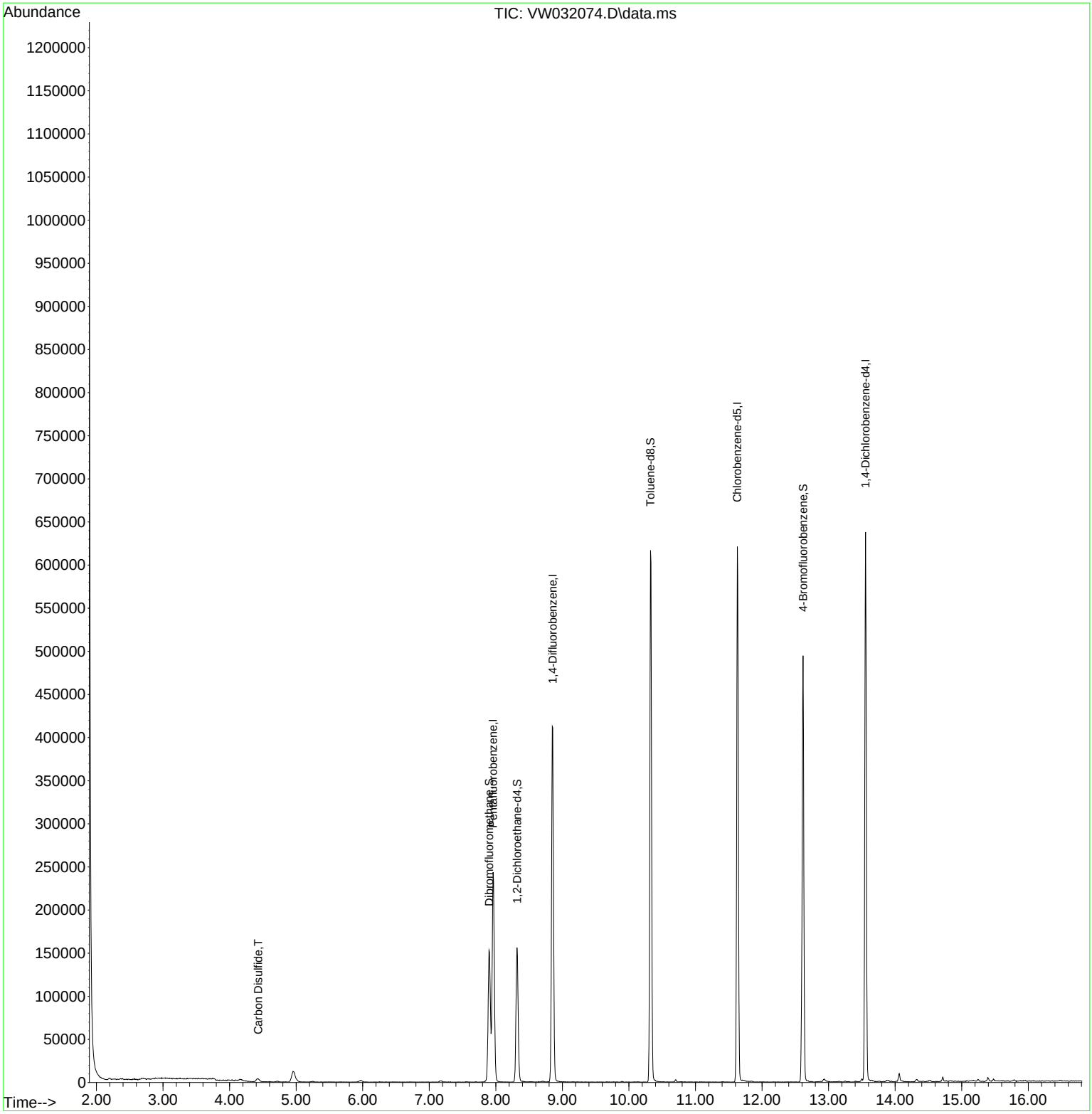
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	167919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	354178	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	340658	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	157540	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	131102	53.983	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 107.960%			
35) Dibromofluoromethane	7.898	113	114884	50.209	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 100.420%			
50) Toluene-d8	10.325	98	420096	49.639	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.280%			
62) 4-Bromofluorobenzene	12.617	95	161066	51.644	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.280%			
Target Compounds						Qvalue
17) Carbon Disulfide	4.429	76	8408	1.538	ug/l	98

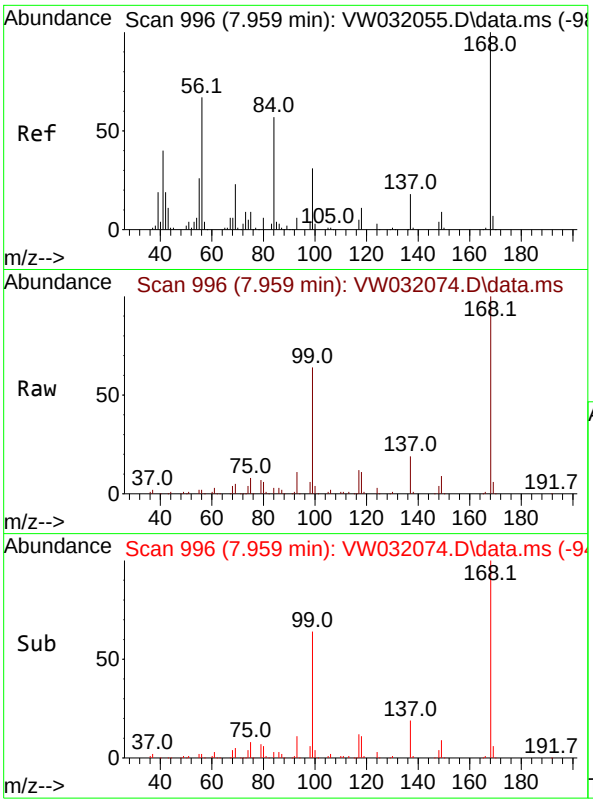
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-S

Quant Time: Aug 12 04:29:08 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



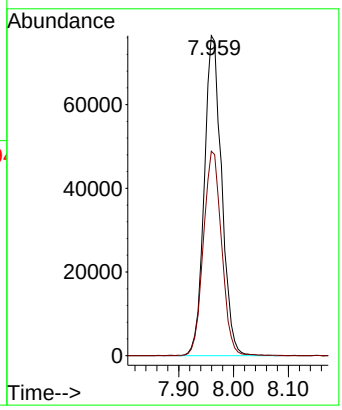


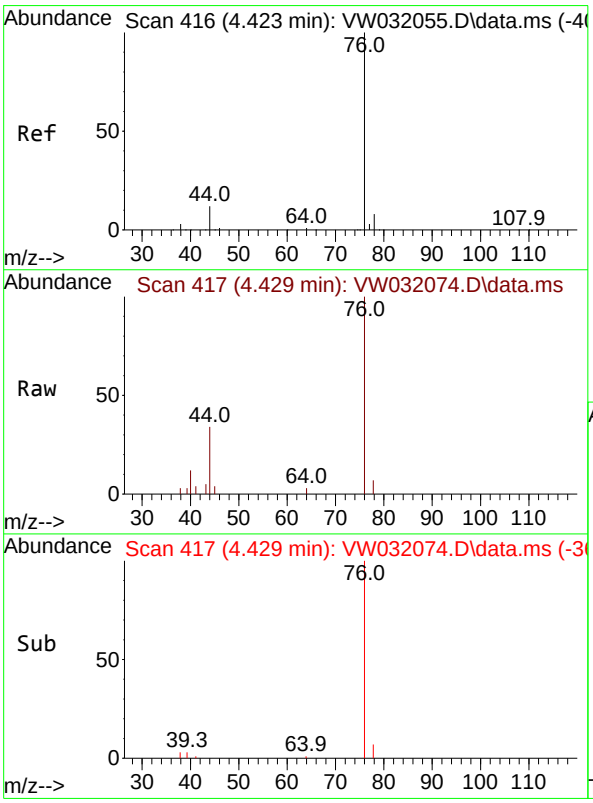
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Instrument :
MSVOA_W
ClientSampleId :
22BP-S

Tgt Ion:168 Resp: 167919

Ion	Ratio	Lower	Upper
168	100		
99	63.8	56.0	84.0

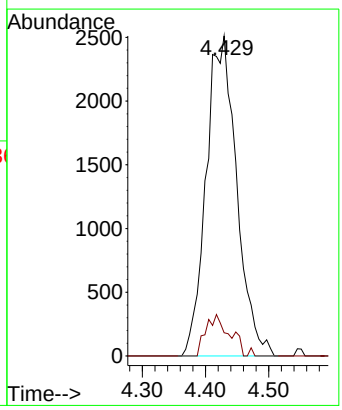


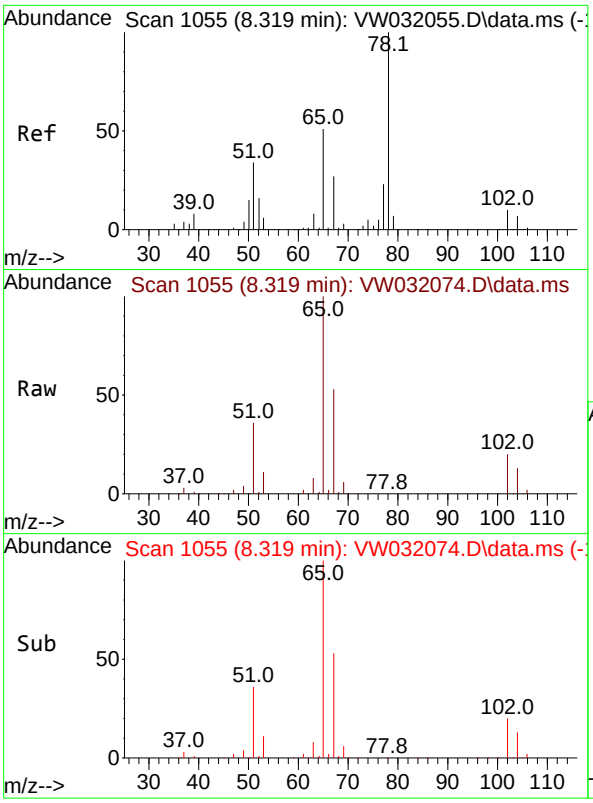


#17
Carbon Disulfide
Concen: 1.538 ug/l
RT: 4.429 min Scan# 417
Delta R.T. 0.006 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion: 76 Resp: 8408

Ion	Ratio	Lower	Upper
76	100		
78	7.2	6.4	9.6



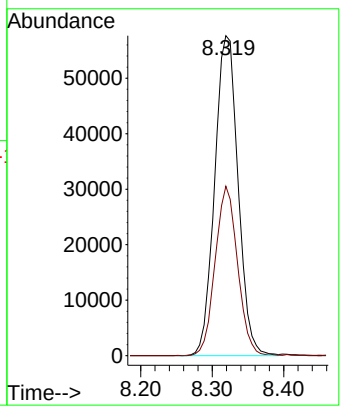


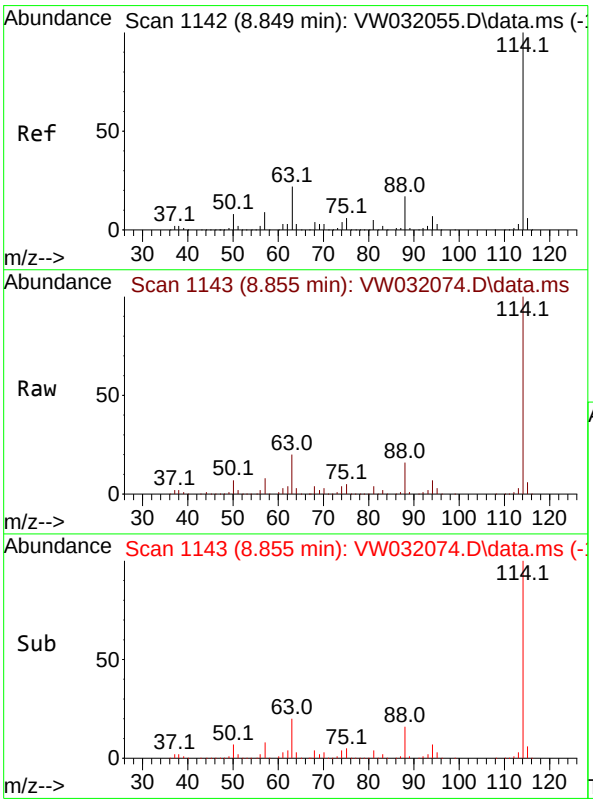
#33
1,2-Dichloroethane-d4
Concen: 53.983 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Instrument :
MSVOA_W
ClientSampleId :
22BP-S

Tgt Ion: 65 Resp: 131102

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	102.4

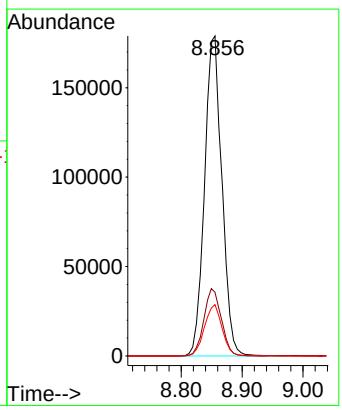


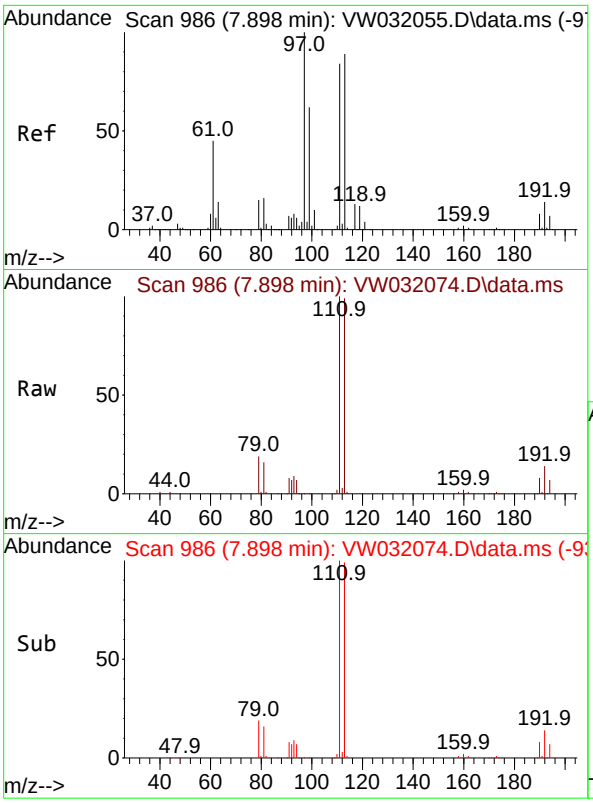


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion:114 Resp: 354178

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	43.0
88	16.0	0.0	33.8



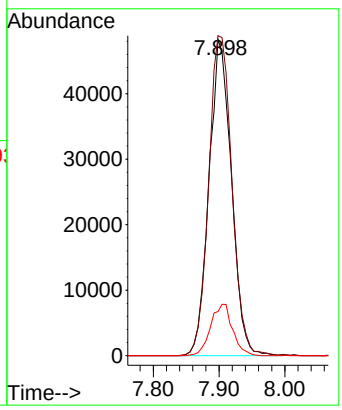


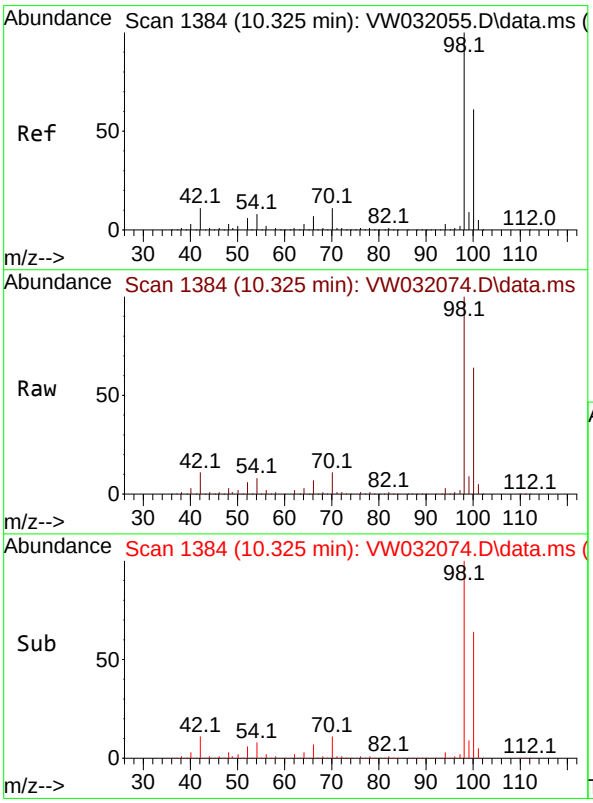
#35
Dibromofluoromethane
Concen: 50.209 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Instrument :
MSVOA_W
ClientSampleId :
22BP-S

Tgt Ion:113 Resp: 114884

Ion	Ratio	Lower	Upper
113	100		
111	104.4	80.1	120.1
192	15.9	13.1	19.7

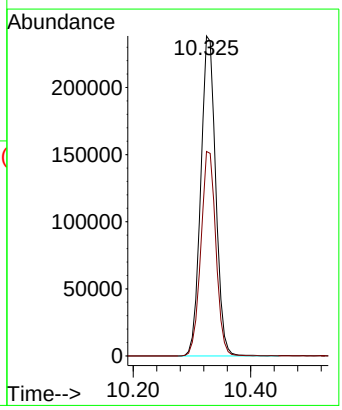


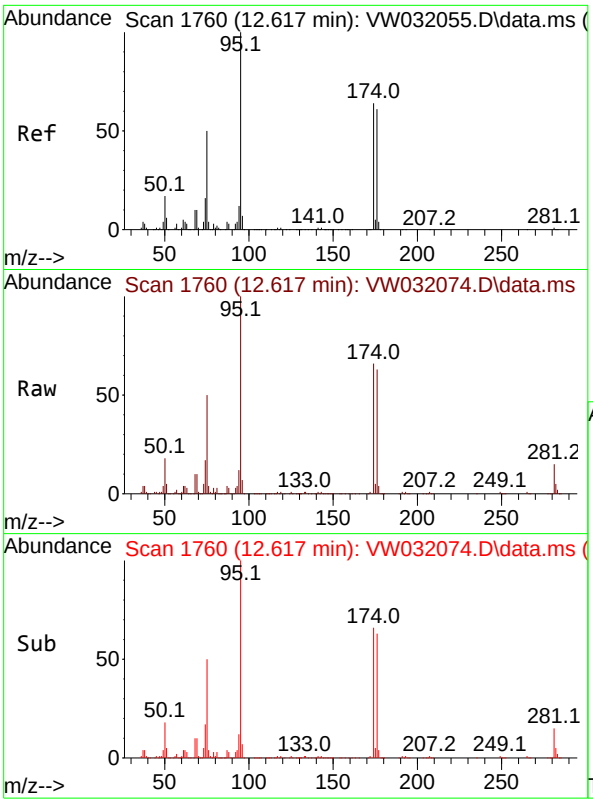


#50
Toluene-d8
Concen: 49.639 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion: 98 Resp: 420096

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7



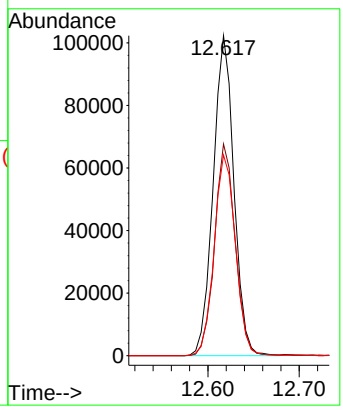


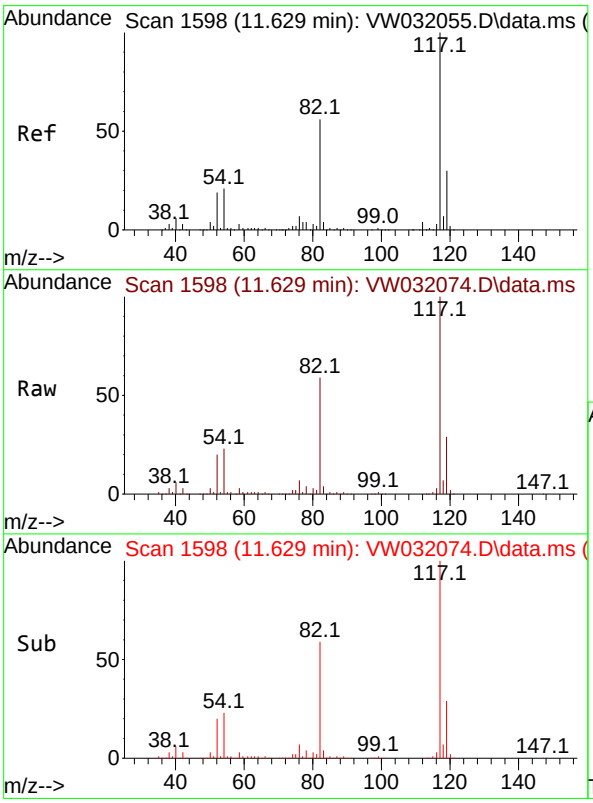
#62
4-Bromofluorobenzene
Concen: 51.644 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Instrument :
MSVOA_W
ClientSampleId :
22BP-S

Tgt Ion: 95 Resp: 161066

Ion	Ratio	Lower	Upper
95	100		
174	65.8	0.0	129.0
176	64.5	0.0	124.6

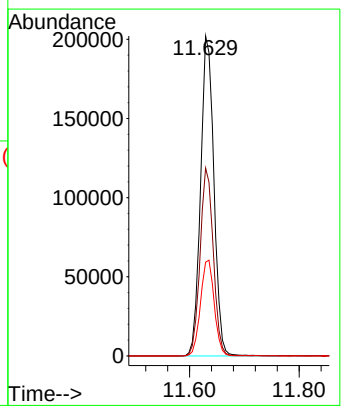


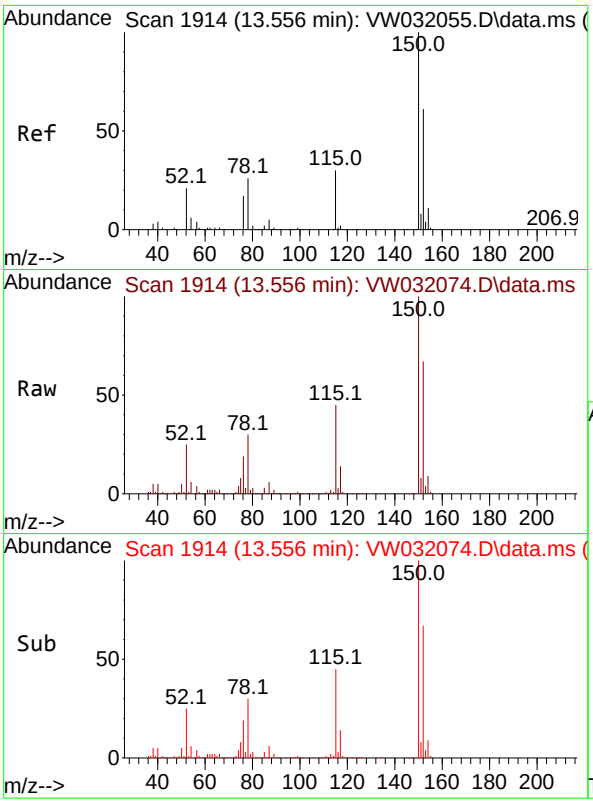


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion:117 Resp: 340658

Ion	Ratio	Lower	Upper
117	100		
82	58.7	45.0	67.4
119	29.3	24.2	36.4



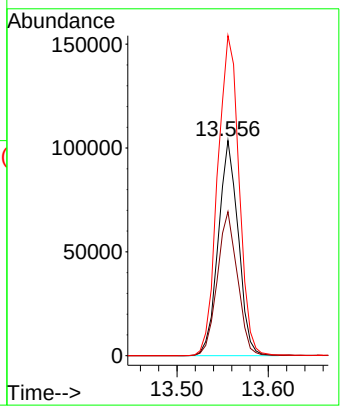


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Instrument :
MSVOA_W
ClientSampleId :
22BP-S

Tgt Ion:152 Resp: 157540

Ion	Ratio	Lower	Upper
152	100		
115	67.5	32.6	97.8
150	159.8	0.0	359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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: VW032074.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.423	406	416	427	rVB2	3599	12123	1.10%	0.195%
2	4.954	490	503	520	rBV3	12434	49533	4.49%	0.796%
3	7.898	972	986	991	rBV2	152681	369753	33.54%	5.938%
4	7.959	991	996	1008	rVB	242927	546052	49.53%	8.770%
5	8.319	1046	1055	1068	rBV	155862	351771	31.91%	5.650%
6	8.849	1134	1142	1154	rBV	412241	837475	75.96%	13.450%
7	10.325	1373	1384	1401	rBV	616542	1102470	100.00%	17.706%
8	11.629	1590	1598	1609	rBV	620633	1053617	95.57%	16.922%
9	12.617	1749	1760	1771	rBV2	494457	876881	79.54%	14.083%
10	13.556	1907	1914	1926	rVB	636064	1011692	91.77%	16.248%
11	14.062	1992	1997	2004	rBV2	8993	15008	1.36%	0.241%

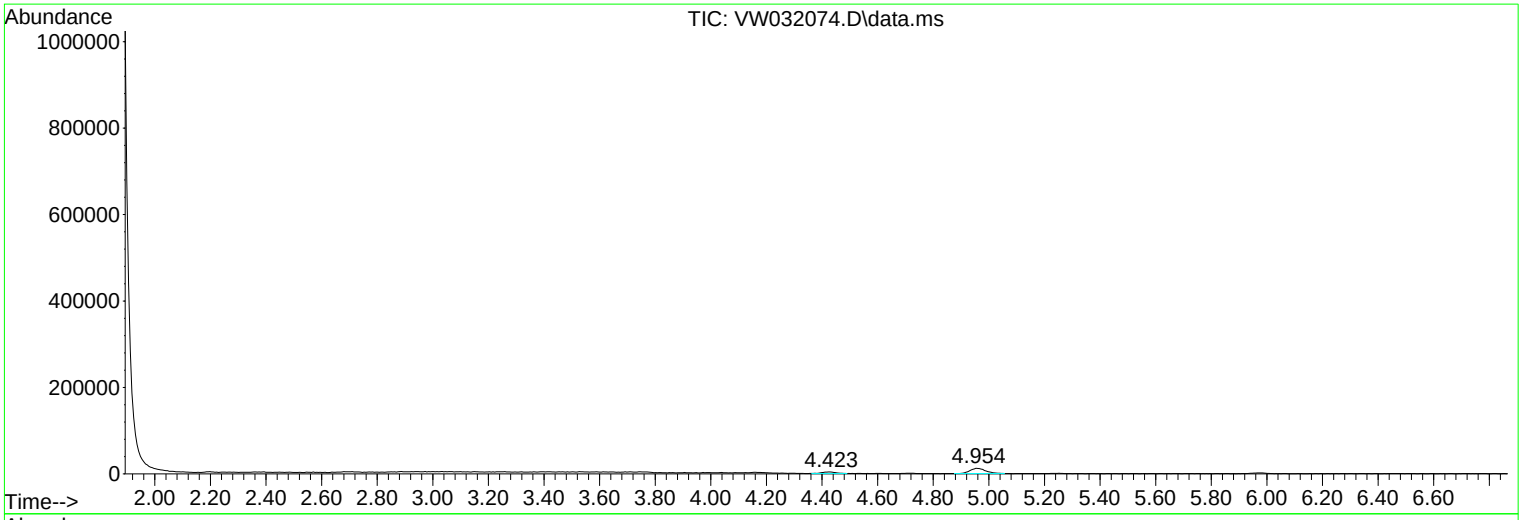
Sum of corrected areas: 6226375

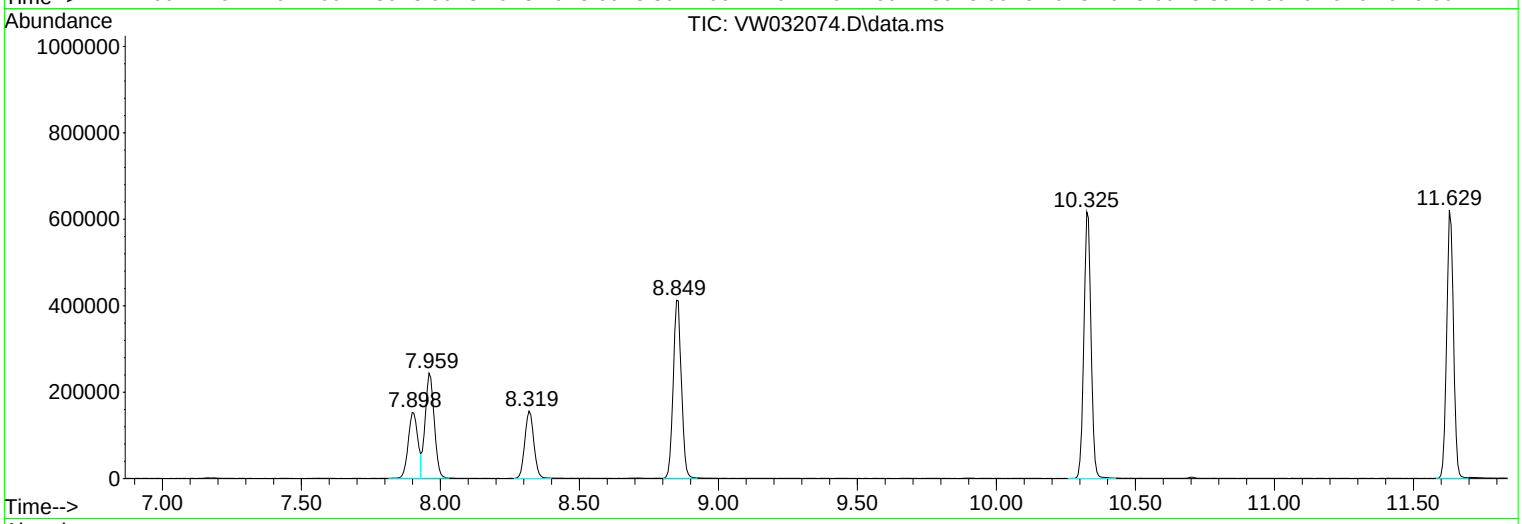
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

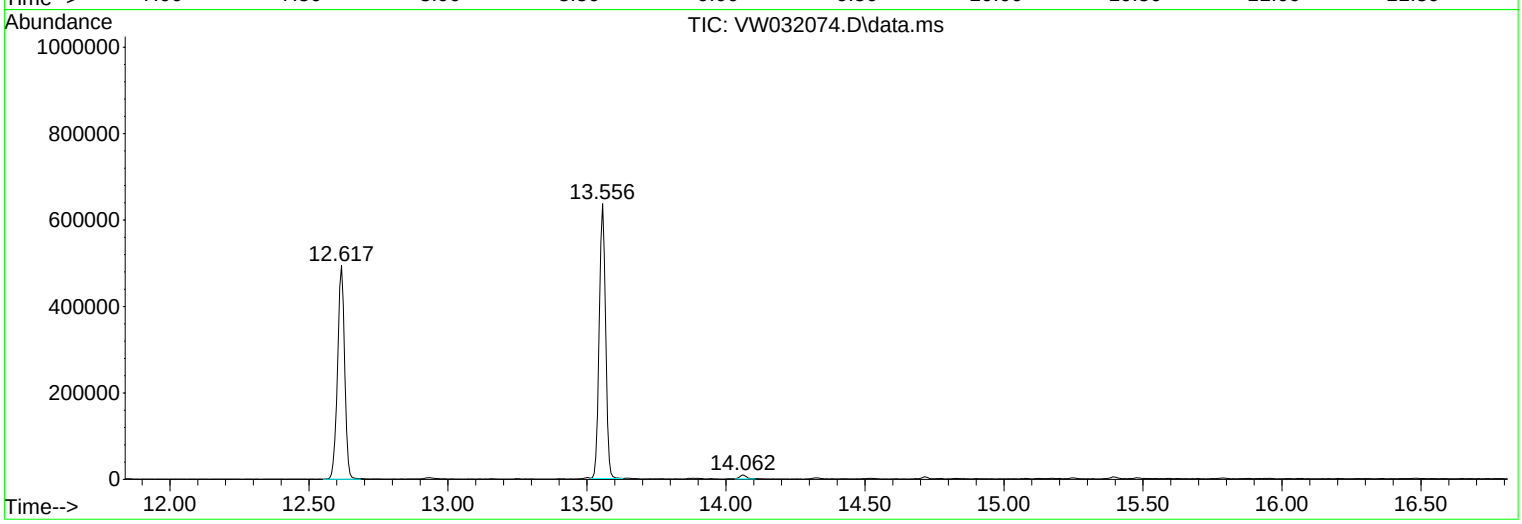
Instrument :
MSVOA_W
ClientSampleId :
22BP-S

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\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
22BP-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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.5
Sample Wt/Vol:	6.21 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
VW032075.D	1	08/11/25 18:25	VW081125

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	0.94	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	0.93	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	17.6	U	4.20	17.6	22.0	ug/Kg
75-15-0	Carbon Disulfide	3.50	U	0.93	3.50	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.20	U	0.64	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	7.00	U	3.10	7.00	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	0.70	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	17.6	U	5.80	17.6	22.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.20	U	0.85	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	0.80	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	0.71	2.20	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	2.20	U	0.80	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	11.0	U	3.20	11.0	22.0	ug/Kg
108-88-3	Toluene	2.20	U	0.69	2.20	4.40	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.5
Sample Wt/Vol:	6.21 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
VW032075.D	1	08/11/25 18:25	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.20	U	0.57	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	11.0	U	3.20	11.0	22.0	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	0.77	2.20	4.40	ug/Kg
127-18-4	Tetrachloroethene	2.20	U	0.92	2.20	4.40	ug/Kg
108-90-7	Chlorobenzene	2.20	U	0.80	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	0.72	2.20	4.40	ug/Kg
100-42-5	Styrene	2.20	U	0.62	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	59.2		71 - 136		118%	SPK: 50
1868-53-7	Dibromofluoromethane	54.3		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	52.7		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.4		79 - 119		115%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	160000	7.965				
540-36-3	1,4-Difluorobenzene	348000	8.849				
3114-55-4	Chlorobenzene-d5	344000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.562				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.5
Sample Wt/Vol:	6.21 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
VW032075.D	1	08/11/25 18:25	VW081125

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\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-W

Quant Time: Aug 12 04:29:31 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	160482	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	347658	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	344119	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.562	152	158417	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	137449	59.219	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 118.440%			
35) Dibromofluoromethane	7.904	113	121861	54.257	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 108.520%			
50) Toluene-d8	10.331	98	438005	52.725	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 105.460%			
62) 4-Bromofluorobenzene	12.617	95	175755	57.411	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 114.820%			

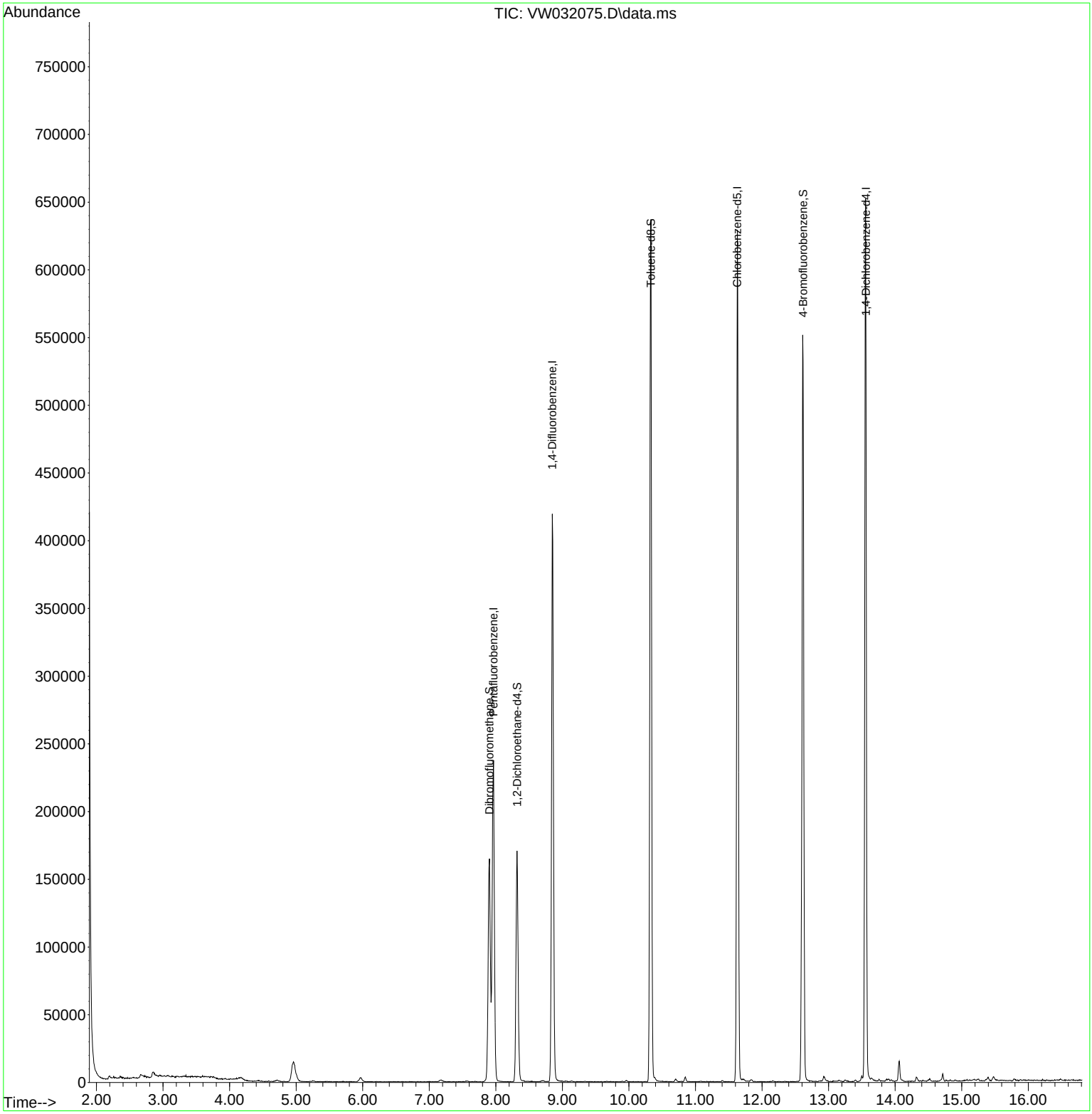
Target Compounds Qvalue

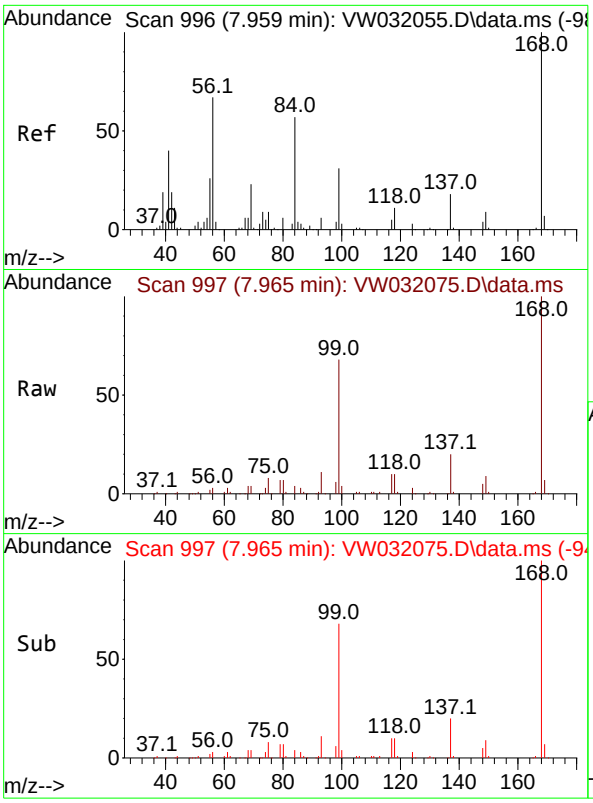
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-W

Quant Time: Aug 12 04:29:31 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



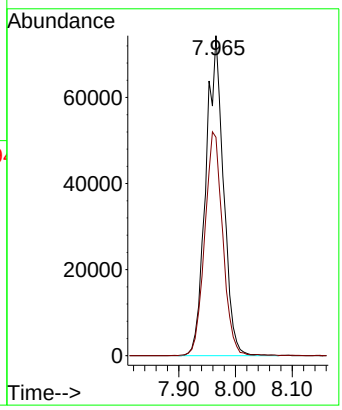


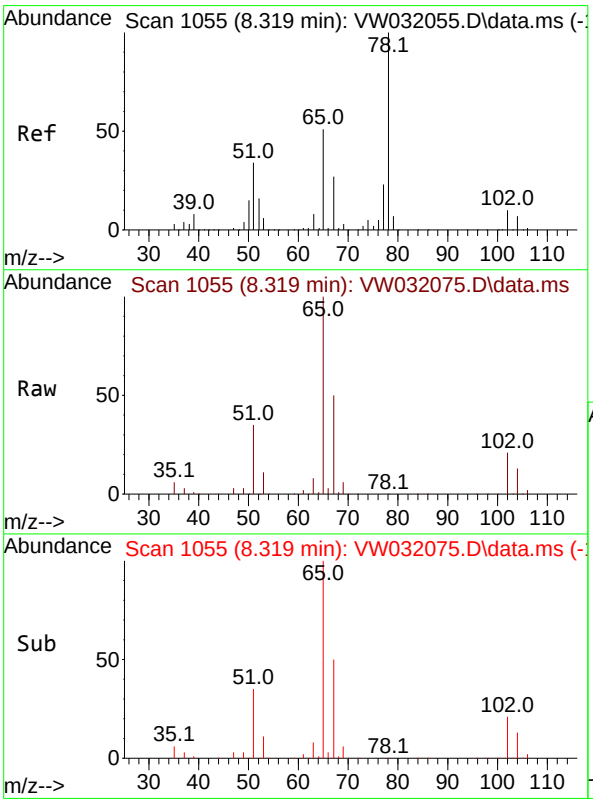
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
11M-W

Tgt Ion:168 Resp: 160482

Ion	Ratio	Lower	Upper
168	100		
99	68.2	56.0	84.0

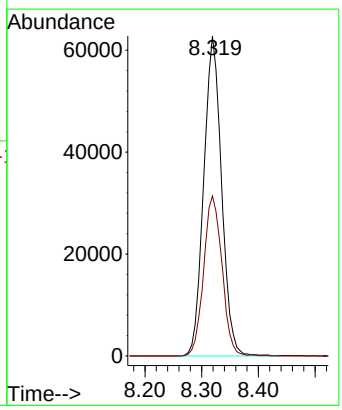


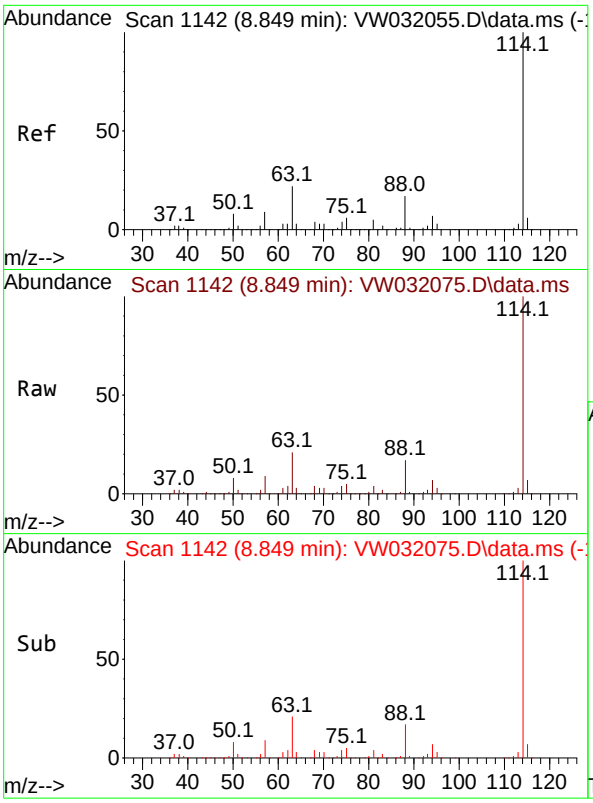


#33
1,2-Dichloroethane-d4
Concen: 59.219 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion: 65 Resp: 137449

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.4



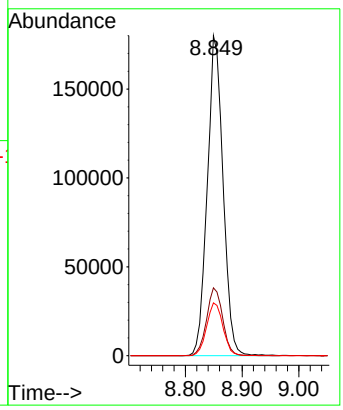


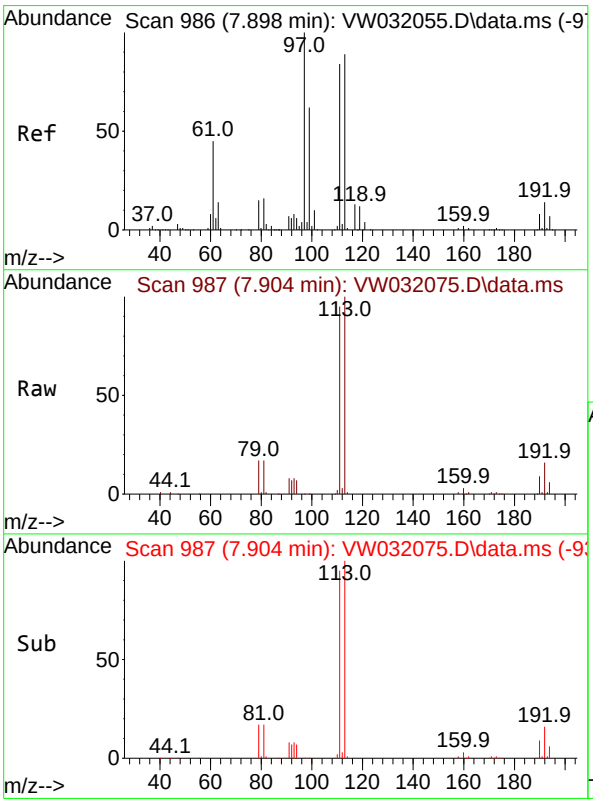
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
11M-W

Tgt Ion:114 Resp: 347658

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.0
88	16.5	0.0	33.8

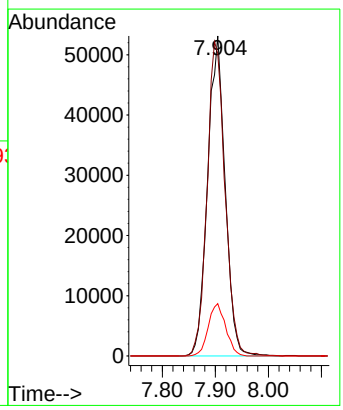


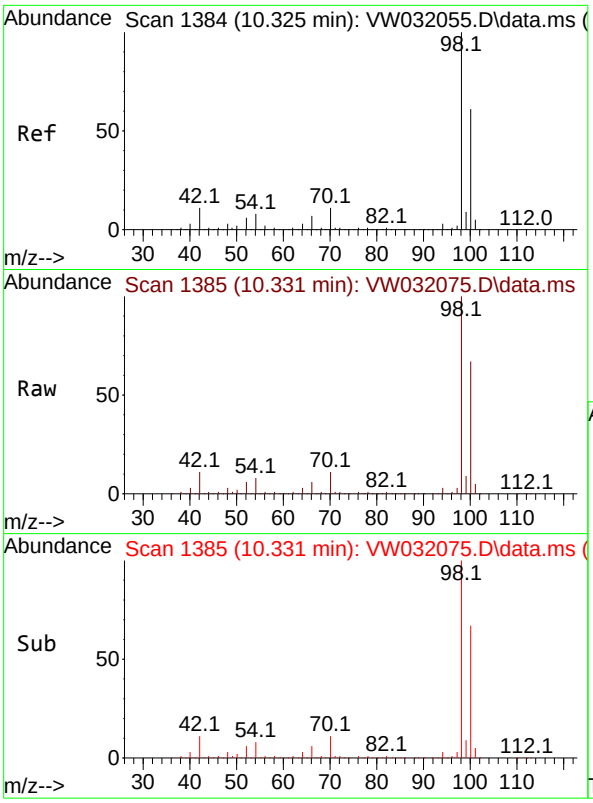


#35
Dibromofluoromethane
Concen: 54.257 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion:113 Resp: 121861

Ion	Ratio	Lower	Upper
113	100		
111	100.8	80.1	120.1
192	16.3	13.1	19.7



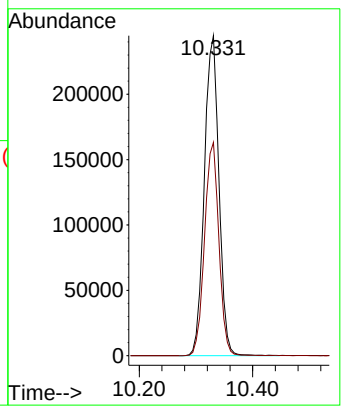


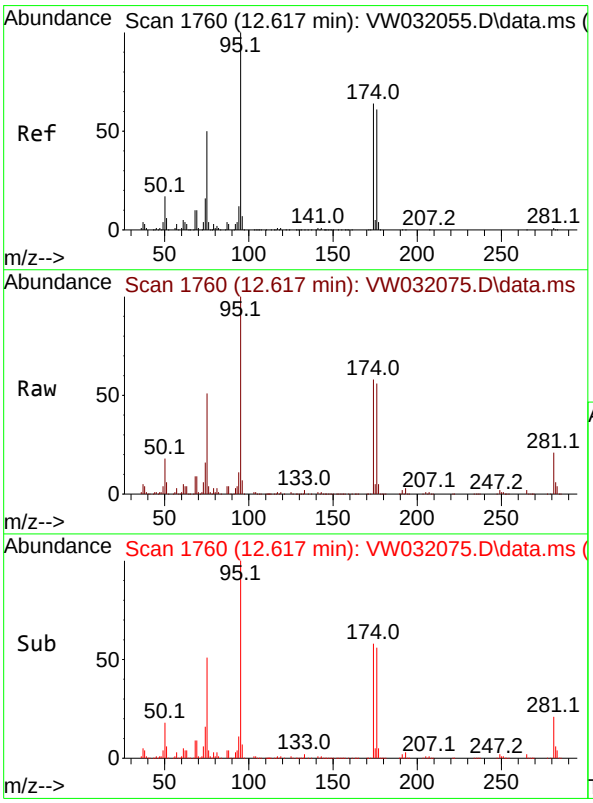
#50
Toluene-d8
Concen: 52.725 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
11M-W

Tgt Ion: 98 Resp: 438005

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.1	76.7

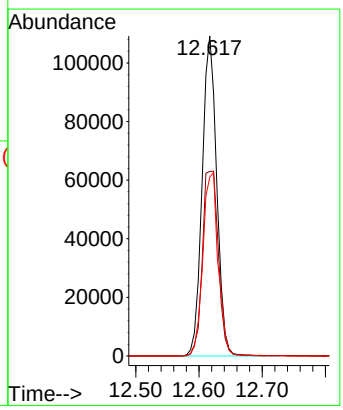


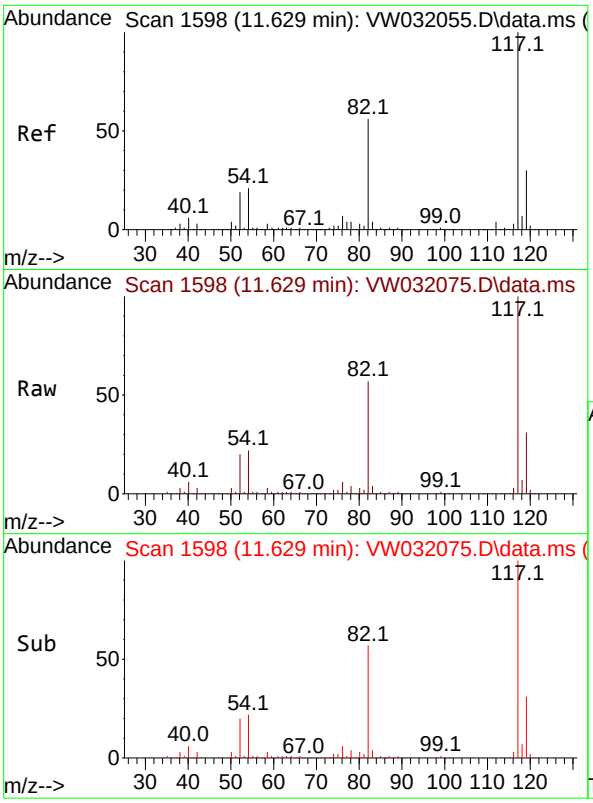


#62
4-Bromofluorobenzene
Concen: 57.411 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion: 95 Resp: 175755

Ion	Ratio	Lower	Upper
95	100		
174	63.2	0.0	129.0
176	60.1	0.0	124.6



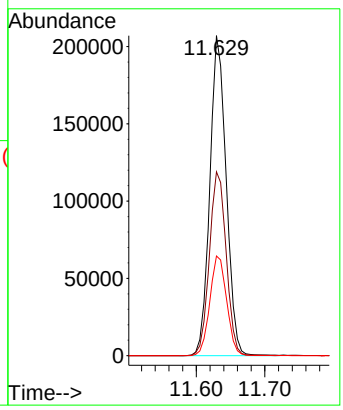


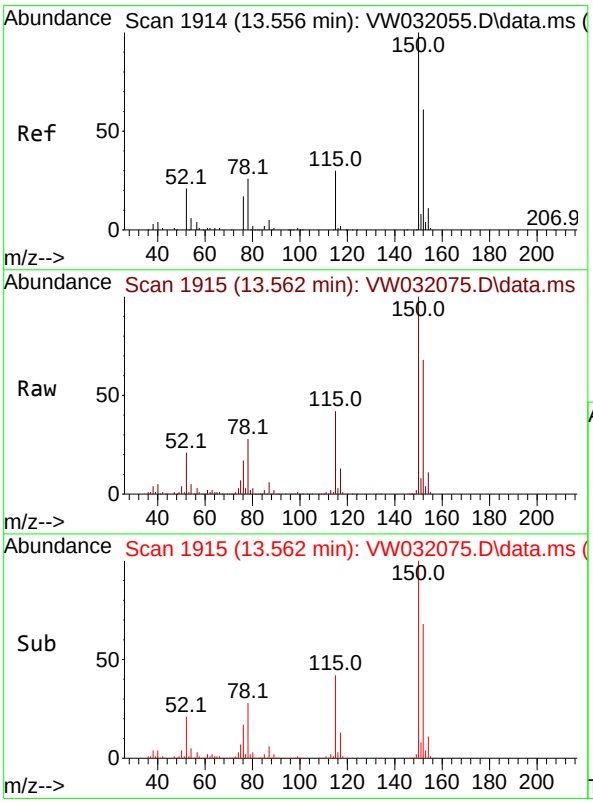
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Instrument :
MSVOA_W
ClientSampleId :
11M-W

Tgt Ion:117 Resp: 344119

Ion	Ratio	Lower	Upper
117	100		
82	57.4	45.0	67.4
119	31.2	24.2	36.4

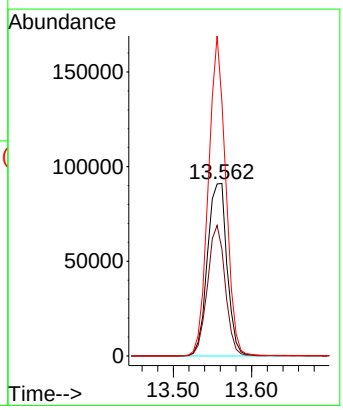




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.562 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion:152 Resp: 158417

Ion	Ratio	Lower	Upper
152	100		
115	68.8	32.6	97.8
150	163.5	0.0	359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-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: VW032075.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	490	504	518	rBV3	14719	62023	5.36%	0.950%
2	7.904	972	987	991	rBV	164613	389799	33.71%	5.970%
3	7.965	991	997	1007	rVB	236675	535040	46.28%	8.194%
4	8.319	1046	1055	1068	rBV	170248	374231	32.37%	5.731%
5	8.849	1133	1142	1159	rBV	419029	830065	71.79%	12.712%
6	10.331	1376	1385	1393	rBV	636798	1156208	100.00%	17.707%
7	11.629	1589	1598	1608	rBV	628953	1071199	92.65%	16.405%
8	12.611	1748	1759	1774	rBV4	551335	1040280	89.97%	15.932%
9	13.556	1907	1914	1926	rVB2	650437	1046322	90.50%	16.024%
10	14.062	1990	1997	2003	rBV2	14503	24469	2.12%	0.375%

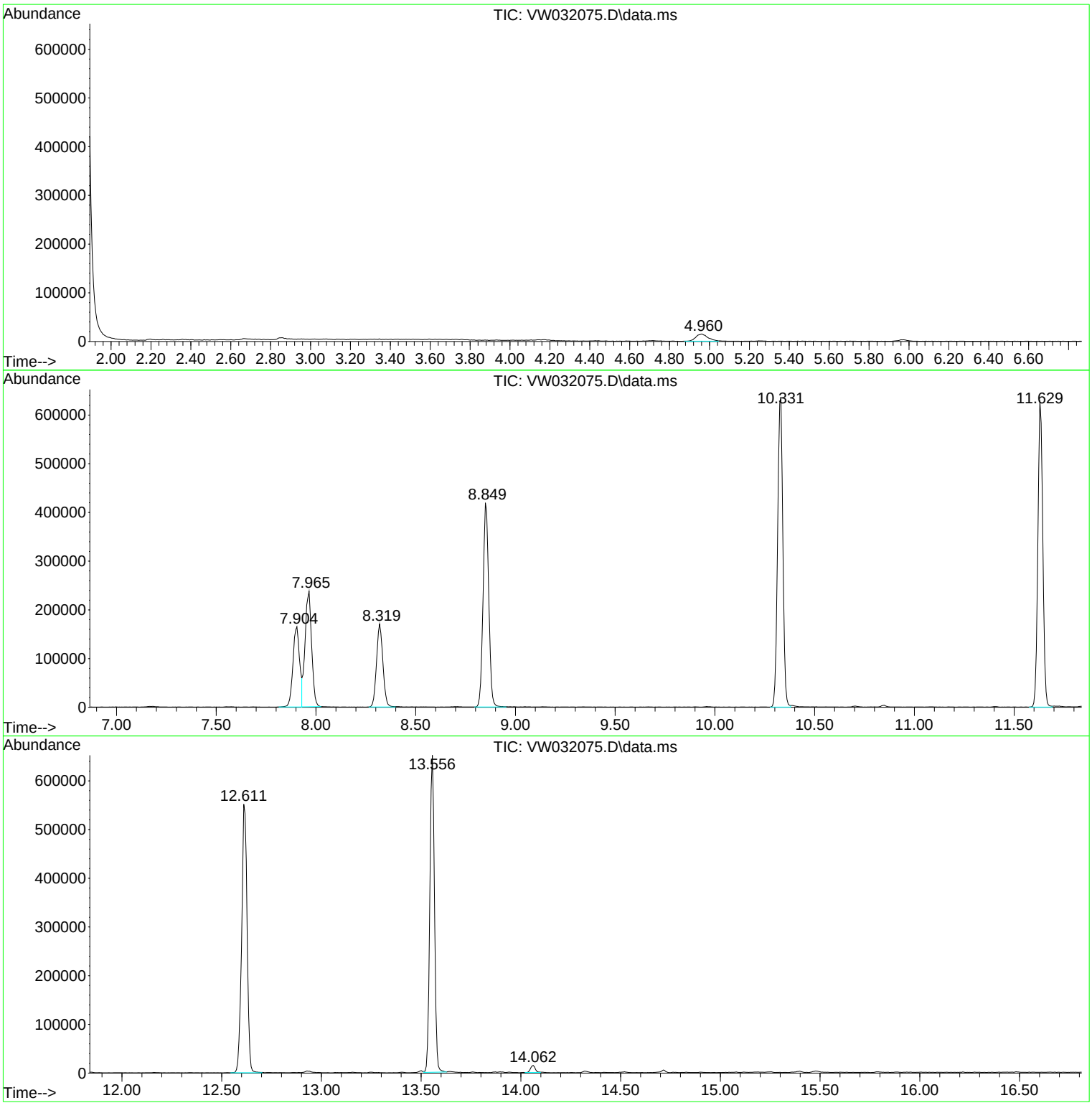
Sum of corrected areas: 6529636

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-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\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-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\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	5.71 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
VW032076.D	1	08/11/25 18:47	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.90	U	1.10	3.90	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	0.76	2.40	4.80	ug/Kg
74-83-9	Bromomethane	3.90	U	1.00	3.90	4.80	ug/Kg
75-00-3	Chloroethane	2.40	U	1.20	2.40	4.80	ug/Kg
75-69-4	Trichlorofluoromethane	3.90	U	1.20	3.90	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	0.97	2.40	4.80	ug/Kg
67-64-1	Acetone	19.4	U	4.60	19.4	24.2	ug/Kg
75-15-0	Carbon Disulfide	3.90	U	1.00	3.90	4.80	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.40	U	0.71	2.40	4.80	ug/Kg
79-20-9	Methyl Acetate	3.90	U	1.50	3.90	4.80	ug/Kg
75-09-2	Methylene Chloride	7.70	U	3.40	7.70	9.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.40	U	0.83	2.40	4.80	ug/Kg
75-34-3	1,1-Dichloroethane	2.40	U	0.77	2.40	4.80	ug/Kg
110-82-7	Cyclohexane	2.40	U	0.76	2.40	4.80	ug/Kg
78-93-3	2-Butanone	19.4	U	6.30	19.4	24.2	ug/Kg
56-23-5	Carbon Tetrachloride	2.40	U	0.94	2.40	4.80	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.40	U	0.73	2.40	4.80	ug/Kg
74-97-5	Bromochloromethane	3.90	U	1.10	3.90	4.80	ug/Kg
67-66-3	Chloroform	3.90	U	0.81	3.90	4.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.40	U	0.90	2.40	4.80	ug/Kg
108-87-2	Methylcyclohexane	2.40	U	0.88	2.40	4.80	ug/Kg
71-43-2	Benzene	2.40	U	0.76	2.40	4.80	ug/Kg
107-06-2	1,2-Dichloroethane	2.40	U	0.76	2.40	4.80	ug/Kg
79-01-6	Trichloroethene	2.40	U	0.78	2.40	4.80	ug/Kg
78-87-5	1,2-Dichloropropane	2.40	U	0.88	2.40	4.80	ug/Kg
75-27-4	Bromodichloromethane	2.40	U	0.75	2.40	4.80	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.1	U	3.50	12.1	24.2	ug/Kg
108-88-3	Toluene	2.40	U	0.75	2.40	4.80	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	5.71 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
VW032076.D	1	08/11/25 18:47	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.40	U	0.63	2.40	4.80	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.40	U	0.60	2.40	4.80	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.40	U	0.89	2.40	4.80	ug/Kg
591-78-6	2-Hexanone	12.1	U	3.60	12.1	24.2	ug/Kg
124-48-1	Dibromochloromethane	2.40	U	0.84	2.40	4.80	ug/Kg
106-93-4	1,2-Dibromoethane	2.40	U	0.85	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	0.88	2.40	4.80	ug/Kg
100-41-4	Ethyl Benzene	2.40	U	0.65	2.40	4.80	ug/Kg
179601-23-1	m/p-Xylenes	4.80	U	1.20	4.80	9.70	ug/Kg
95-47-6	o-Xylene	2.40	U	0.79	2.40	4.80	ug/Kg
100-42-5	Styrene	2.40	U	0.69	2.40	4.80	ug/Kg
75-25-2	Bromoform	2.40	U	0.83	2.40	4.80	ug/Kg
98-82-8	Isopropylbenzene	2.40	U	0.75	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	1.70	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	3.90	U	1.80	3.90	4.80	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.90	U	2.90	3.90	4.80	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.90	U	3.10	3.90	4.80	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		71 - 136		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		78 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.3		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.2		79 - 119		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	166000	7.959				
540-36-3	1,4-Difluorobenzene	348000	8.855				
3114-55-4	Chlorobenzene-d5	338000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	151000	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-06	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	90.5
Sample Wt/Vol:	5.71 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
VW032076.D	1	08/11/25 18:47	VW081125

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\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-S

Quant Time: Aug 12 04:29:53 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

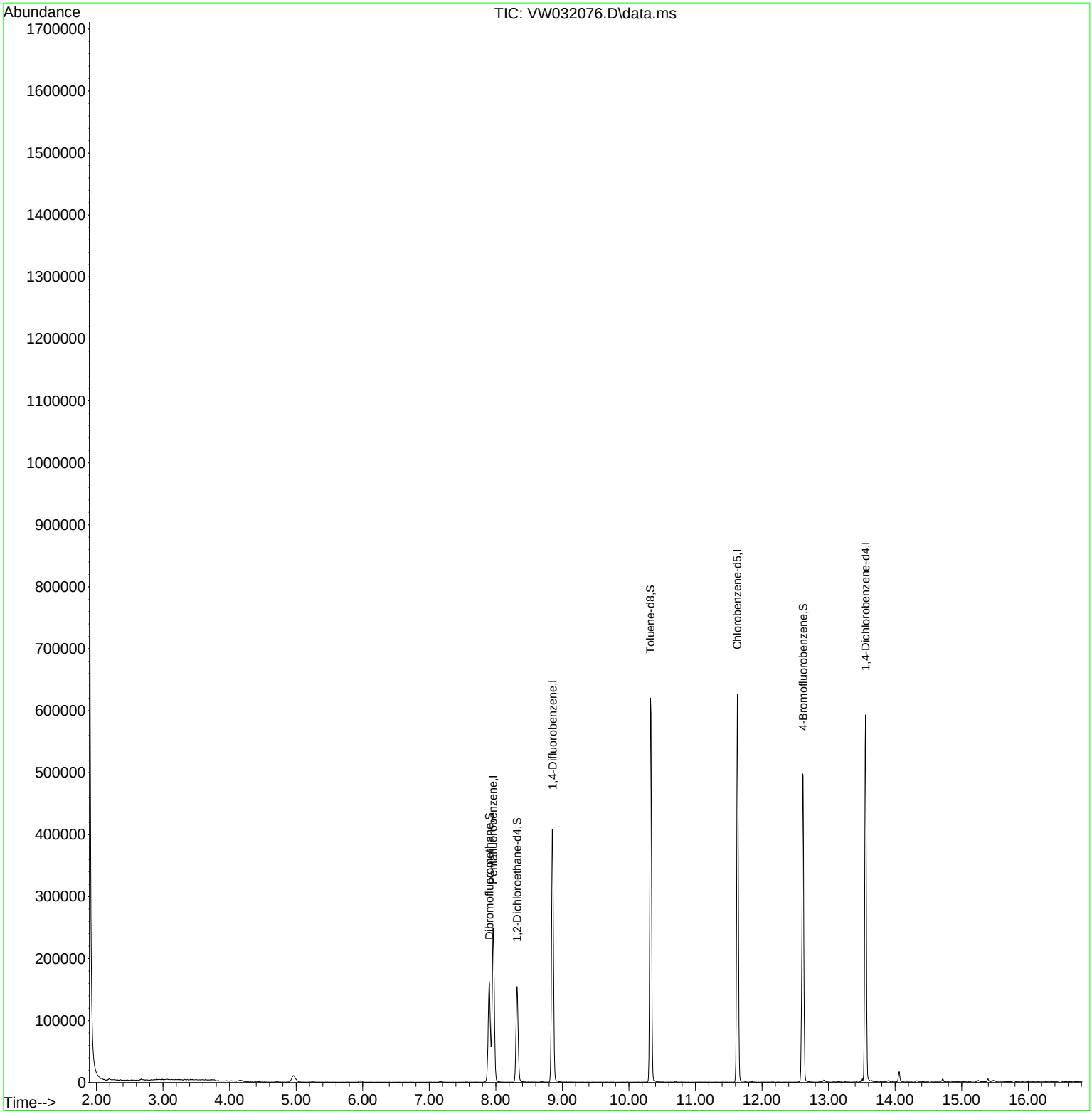
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	165877	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	348126	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	337870	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	150514	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	127564	53.173	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 106.340%			
35) Dibromofluoromethane	7.904	113	117342	52.174	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 104.340%			
50) Toluene-d8	10.325	98	418630	50.325	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.660%			
62) 4-Bromofluorobenzene	12.617	95	157097	51.247	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.500%			
Target Compounds						Qvalue

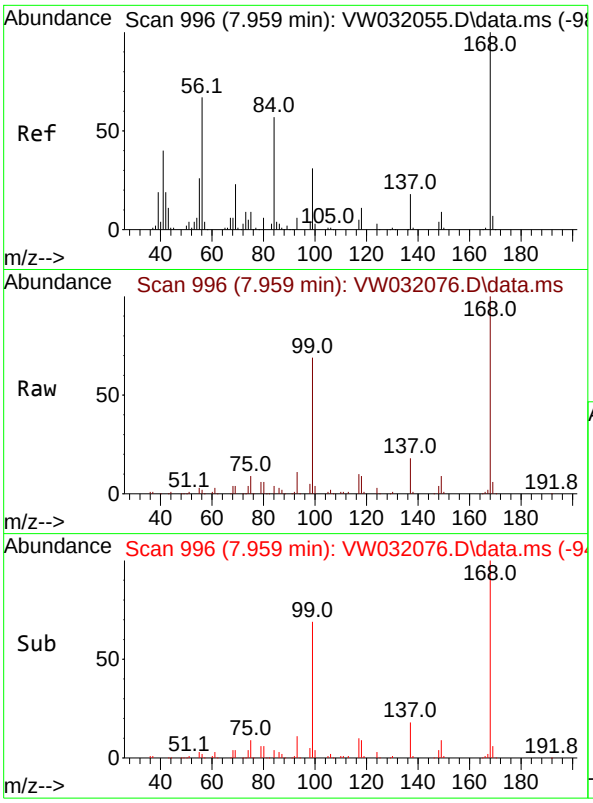
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-S

Quant Time: Aug 12 04:29:53 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



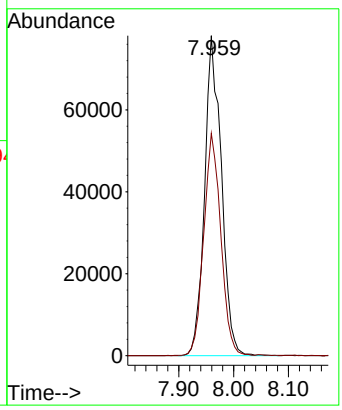


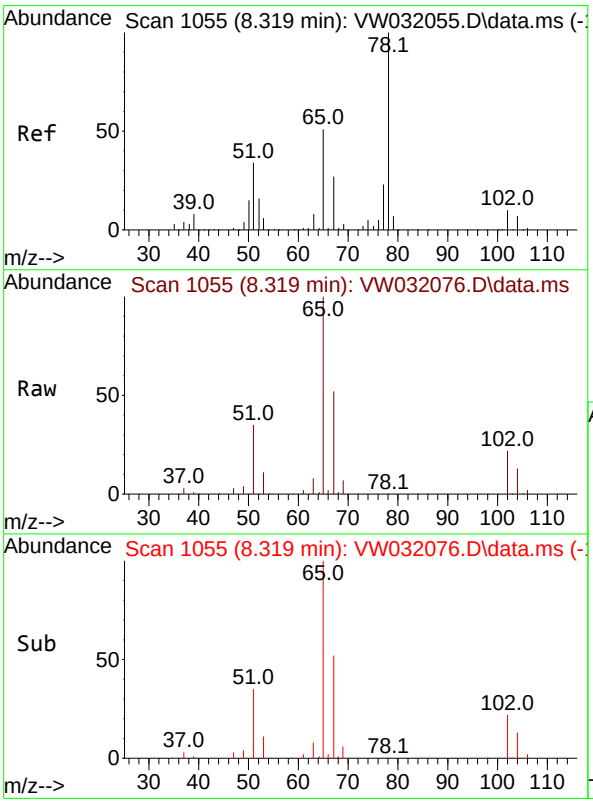
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
11M-S

Tgt Ion:168 Resp: 165877

Ion	Ratio	Lower	Upper
168	100		
99	69.3	56.0	84.0

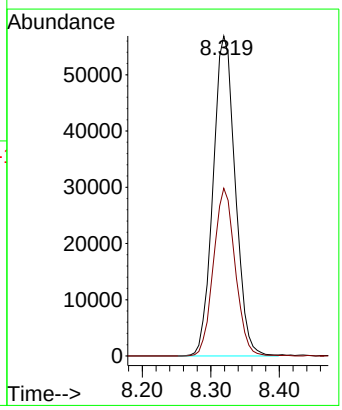


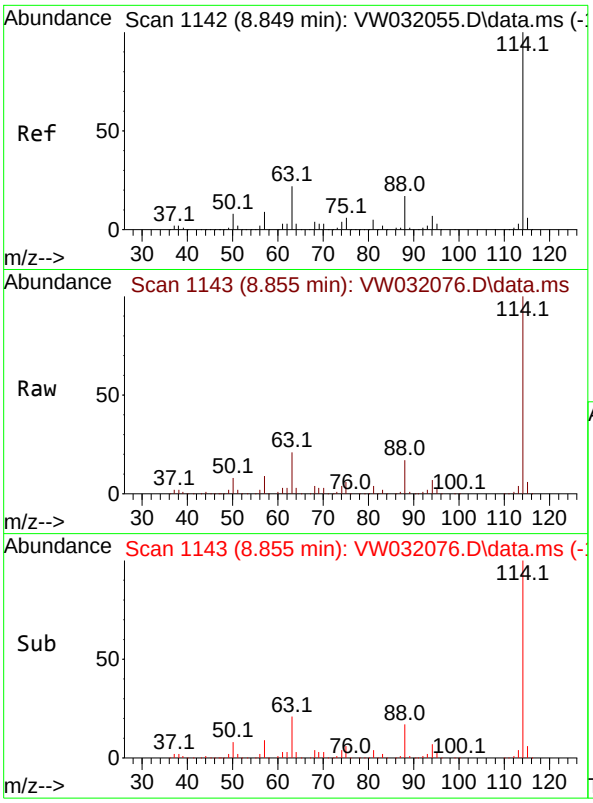


#33
1,2-Dichloroethane-d4
Concen: 53.173 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion: 65 Resp: 127564

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.4



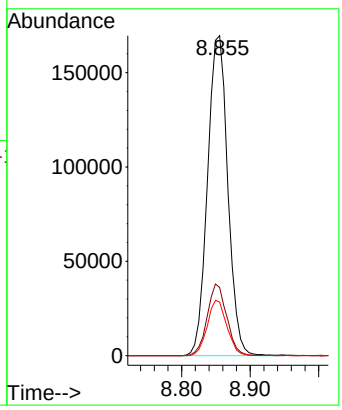


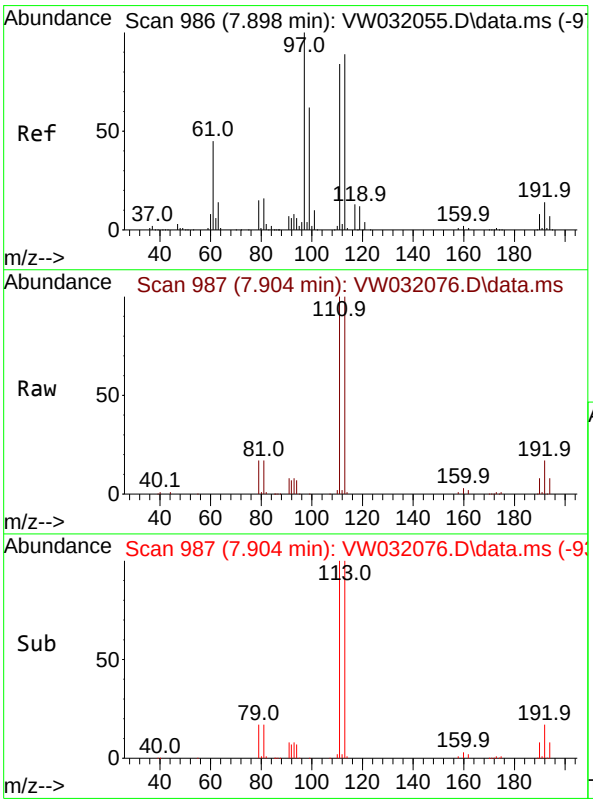
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
11M-S

Tgt Ion:114 Resp: 348126

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	43.0
88	16.8	0.0	33.8

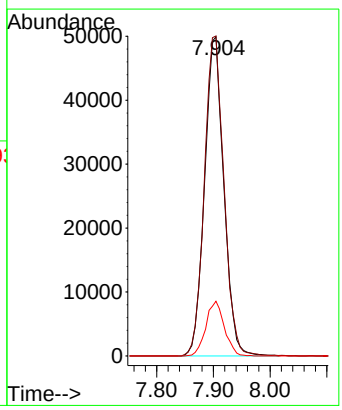


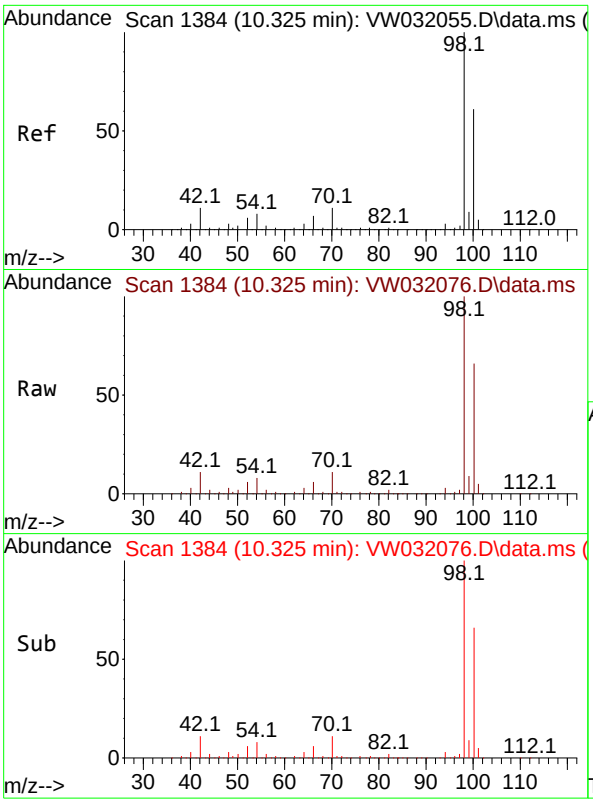


#35
Dibromofluoromethane
Concen: 52.174 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion:113 Resp: 117342

Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.1	120.1
192	16.5	13.1	19.7



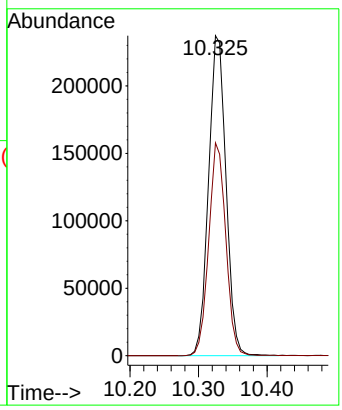


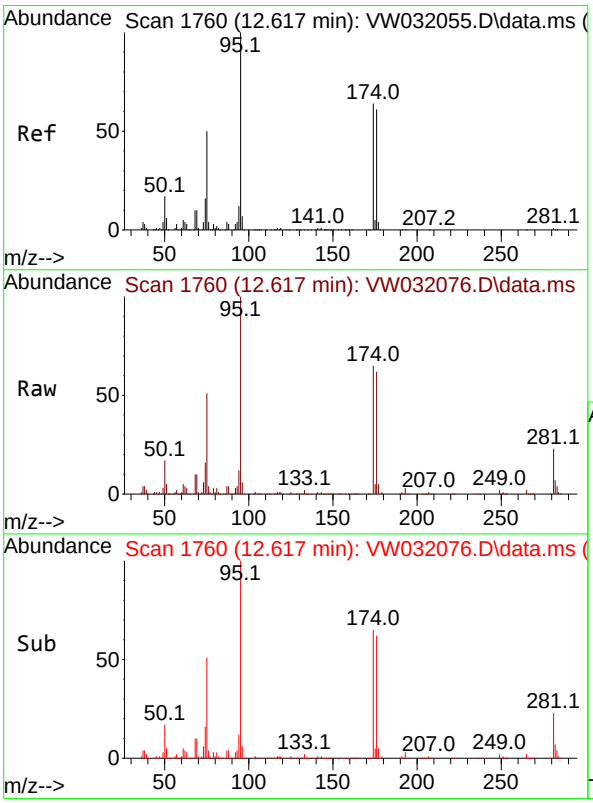
#50
Toluene-d8
Concen: 50.325 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
11M-S

Tgt Ion: 98 Resp: 418630

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.1	76.7

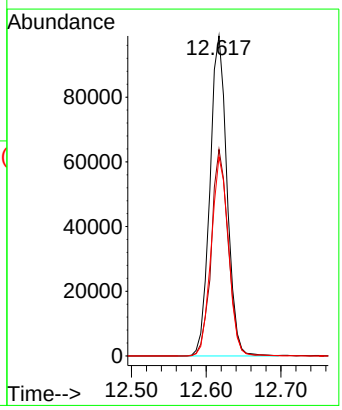


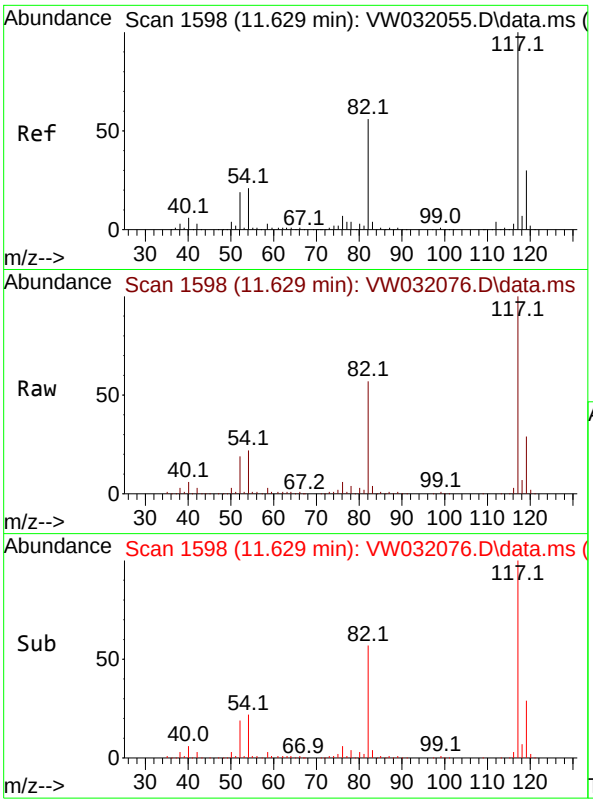


#62
4-Bromofluorobenzene
Concen: 51.247 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion: 95 Resp: 157097

Ion	Ratio	Lower	Upper
95	100		
174	64.0	0.0	129.0
176	62.9	0.0	124.6



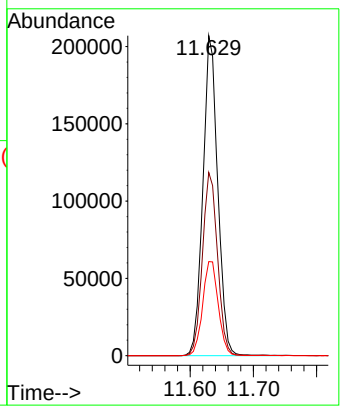


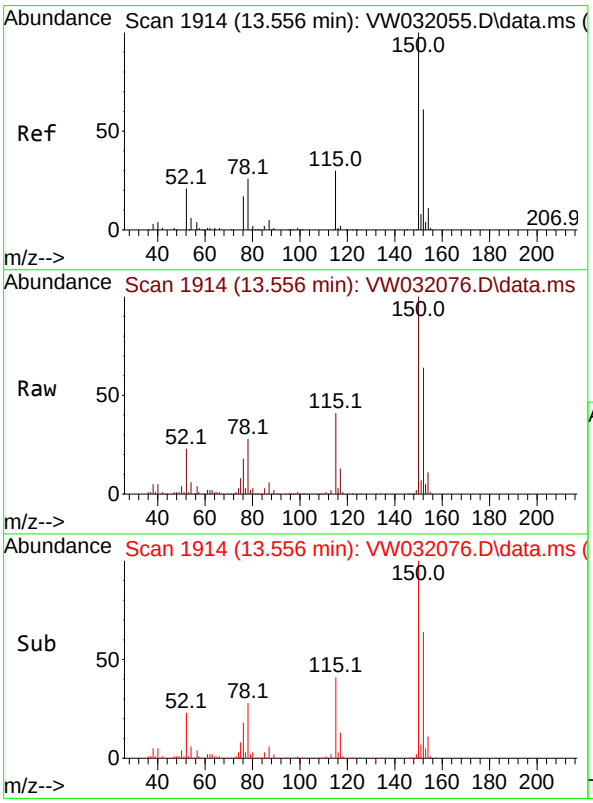
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Instrument :
MSVOA_W
ClientSampleId :
11M-S

Tgt Ion:117 Resp: 337870

Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.0	67.4
119	29.4	24.2	36.4

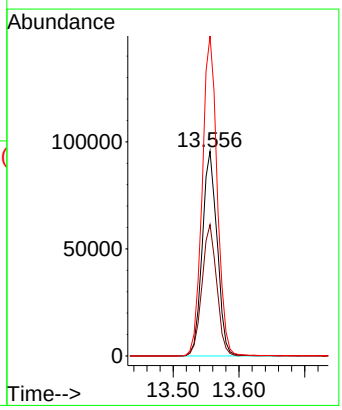




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion:152 Resp: 150514

Ion	Ratio	Lower	Upper
152	100		
115	63.5	32.6	97.8
150	157.4	0.0	359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-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: VW032076.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	492	504	520	rBV4	10580	44595	4.07%	0.721%
2	7.904	971	987	991	rBV	158241	375046	34.26%	6.065%
3	7.959	991	996	1012	rVB	248108	551525	50.38%	8.918%
4	8.319	1045	1055	1067	rBV	154534	345246	31.54%	5.583%
5	8.849	1132	1142	1157	rBV	407822	834023	76.19%	13.487%
6	10.325	1376	1384	1393	rBV	620030	1094688	100.00%	17.702%
7	11.629	1590	1598	1608	rBV	626267	1042215	95.21%	16.853%
8	12.611	1751	1759	1773	rBV3	496260	929728	84.93%	15.034%
9	13.556	1907	1914	1926	rVB	591243	941328	85.99%	15.222%
10	14.062	1991	1997	2002	rBV2	16067	25738	2.35%	0.416%

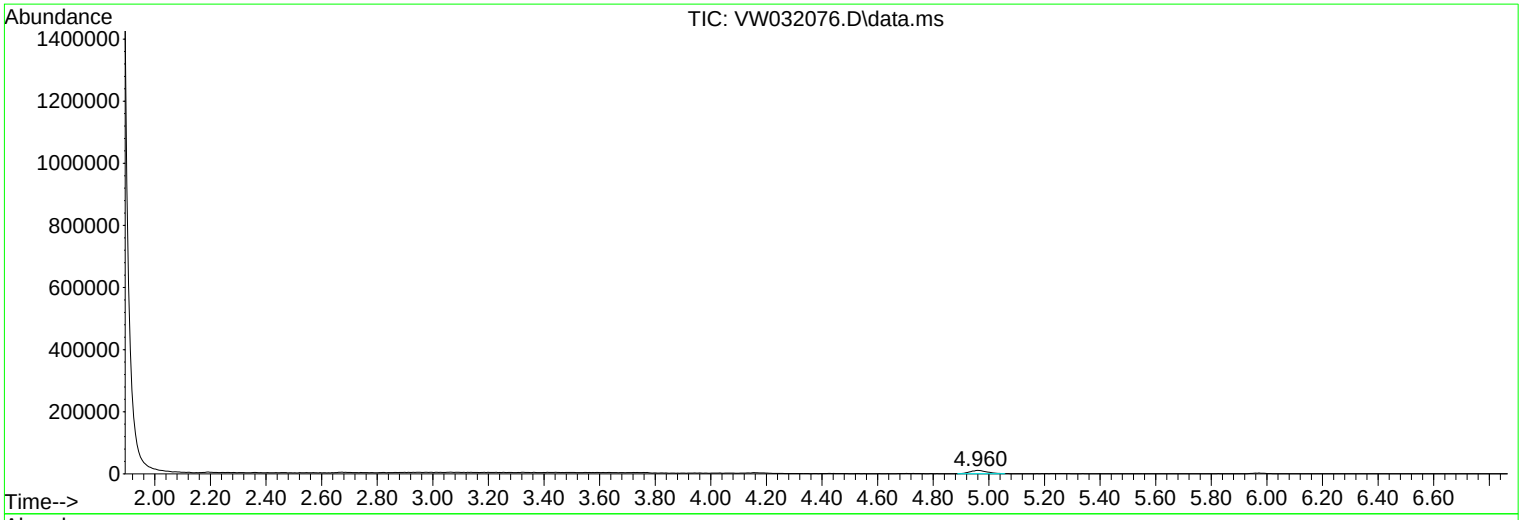
Sum of corrected areas: 6184132

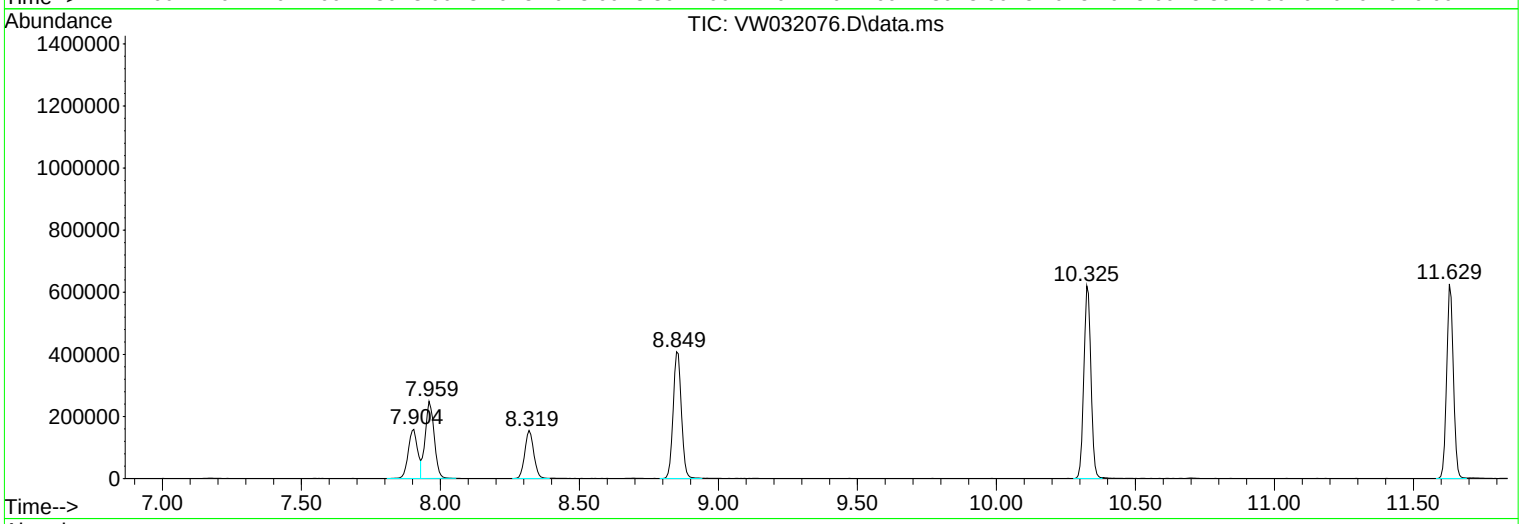
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

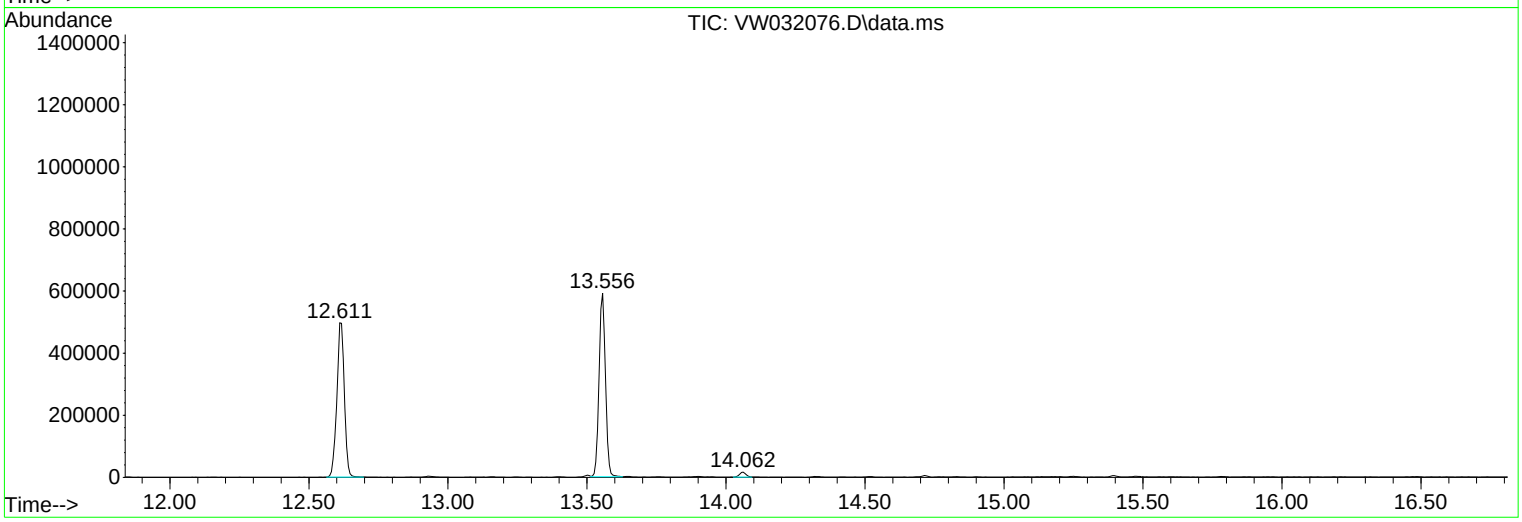
Instrument :
MSVOA_W
ClientSampleId :
11M-S

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\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-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
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
11M-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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	75.9
Sample Wt/Vol:	6.32 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
VY023069.D	1	08/13/25 14:55	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	U	1.20	4.20	5.20	ug/Kg
74-87-3	Chloromethane	2.60	U	1.20	2.60	5.20	ug/Kg
75-01-4	Vinyl Chloride	2.60	U	0.82	2.60	5.20	ug/Kg
74-83-9	Bromomethane	4.20	U	1.10	4.20	5.20	ug/Kg
75-00-3	Chloroethane	2.60	U	1.30	2.60	5.20	ug/Kg
75-69-4	Trichlorofluoromethane	4.20	U	1.30	4.20	5.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.60	U	1.10	2.60	5.20	ug/Kg
75-35-4	1,1-Dichloroethene	2.60	U	1.00	2.60	5.20	ug/Kg
67-64-1	Acetone	51.1		4.90	20.8	26.1	ug/Kg
75-15-0	Carbon Disulfide	1.60	J	1.10	4.20	5.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.60	U	0.76	2.60	5.20	ug/Kg
79-20-9	Methyl Acetate	4.20	U	1.60	4.20	5.20	ug/Kg
75-09-2	Methylene Chloride	8.30	U	3.70	8.30	10.4	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.60	U	0.90	2.60	5.20	ug/Kg
75-34-3	1,1-Dichloroethane	2.60	U	0.83	2.60	5.20	ug/Kg
110-82-7	Cyclohexane	2.60	U	0.82	2.60	5.20	ug/Kg
78-93-3	2-Butanone	13.1	J	6.80	20.8	26.1	ug/Kg
56-23-5	Carbon Tetrachloride	2.60	U	1.00	2.60	5.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.60	U	0.78	2.60	5.20	ug/Kg
74-97-5	Bromochloromethane	4.20	U	1.20	4.20	5.20	ug/Kg
67-66-3	Chloroform	4.20	U	0.88	4.20	5.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.60	U	0.97	2.60	5.20	ug/Kg
108-87-2	Methylcyclohexane	2.60	U	0.95	2.60	5.20	ug/Kg
71-43-2	Benzene	2.60	U	0.82	2.60	5.20	ug/Kg
107-06-2	1,2-Dichloroethane	2.60	U	0.82	2.60	5.20	ug/Kg
79-01-6	Trichloroethene	2.60	U	0.84	2.60	5.20	ug/Kg
78-87-5	1,2-Dichloropropane	2.60	U	0.95	2.60	5.20	ug/Kg
75-27-4	Bromodichloromethane	2.60	U	0.81	2.60	5.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13.0	U	3.70	13.0	26.1	ug/Kg
108-88-3	Toluene	6.30		0.81	2.60	5.20	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	75.9
Sample Wt/Vol:	6.32 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
VY023069.D	1	08/13/25 14:55	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.60	U	0.68	2.60	5.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.60	U	0.65	2.60	5.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.60	U	0.96	2.60	5.20	ug/Kg
591-78-6	2-Hexanone	13.0	U	3.80	13.0	26.1	ug/Kg
124-48-1	Dibromochloromethane	2.60	U	0.91	2.60	5.20	ug/Kg
106-93-4	1,2-Dibromoethane	2.60	U	0.92	2.60	5.20	ug/Kg
127-18-4	Tetrachloroethene	2.60	U	1.10	2.60	5.20	ug/Kg
108-90-7	Chlorobenzene	2.60	U	0.95	2.60	5.20	ug/Kg
100-41-4	Ethyl Benzene	54.8		0.70	2.60	5.20	ug/Kg
179601-23-1	m/p-Xylenes	190		1.30	5.20	10.4	ug/Kg
95-47-6	o-Xylene	85.7		0.85	2.60	5.20	ug/Kg
100-42-5	Styrene	2.60	U	0.74	2.60	5.20	ug/Kg
75-25-2	Bromoform	2.60	U	0.90	2.60	5.20	ug/Kg
98-82-8	Isopropylbenzene	89.9		0.81	2.60	5.20	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.60	U	1.30	2.60	5.20	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.60	U	1.80	2.60	5.20	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.60	U	1.60	2.60	5.20	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.60	U	1.50	2.60	5.20	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.20	U	1.90	4.20	5.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.20	U	3.10	4.20	5.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.20	U	3.30	4.20	5.20	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	66.6		71 - 136		133%	SPK: 50
1868-53-7	Dibromofluoromethane	55.2		78 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	51.4		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		79 - 119		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	499000	7.707				
540-36-3	1,4-Difluorobenzene	998000	8.609				
3114-55-4	Chlorobenzene-d5	877000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	339000	13.34				
TENTATIVE IDENTIFIED COMPOUNDS							

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-07	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	75.9
Sample Wt/Vol:	6.32 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
VY023069.D	1	08/13/25 14:55	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
103-65-1	n-propylbenzene	11.2	J			12.6	ug/Kg
000620-14-4	Benzene, 1-ethyl-3-methyl-	220	J			12.7	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	150	J			12.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	410	J			13.0	ug/Kg
99-87-6	p-Isopropyltoluene	51.8	J			13.3	ug/Kg
000622-97-9	Benzene, 1-ethenyl-4-methyl-	3500	J			13.5	ug/Kg
104-51-8	n-Butylbenzene	2.40	J			13.6	ug/Kg
007525-62-4	Benzene, 1-ethenyl-3-ethyl-	130	J			14.0	ug/Kg
000104-55-2	2-Propenal, 3-phenyl-	380	J			14.3	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	200	J			14.5	ug/Kg
003454-07-7	Benzene, 1-ethenyl-4-ethyl-	310	J			14.6	ug/Kg
000270-82-6	Benzo[c]thiophene	470	J			15.2	ug/Kg
000090-12-0	Naphthalene, 1-methyl-	2400	J			16.2	ug/Kg
002471-83-2	1H-Indene, 1-ethylidene-	1100	J			16.4	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\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 14 01:24:42 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 :
11M-N

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	499481	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.609	114	998493	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	877177	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	339290	50.000	ug/l	#	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	316941	66.579	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.160%				
35) Dibromofluoromethane	7.628	113	329759	55.193	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.380%				
50) Toluene-d8	10.103	98	1198822	51.362	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.720%				
62) 4-Bromofluorobenzene	12.401	95	378383	50.409	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.820%				
Target Compounds							Qvalue
16) Acetone	3.866	43	50603	49.067	ug/l		97
17) Carbon Disulfide	4.098	76	24835	1.582	ug/l		97
25) 2-Butanone	6.884	43	17580	12.534	ug/l		95
52) Toluene	10.164	92	104466	6.010	ug/l		100
67) Ethyl Benzene	11.511	91	1711204	52.554	ug/l		99
68) m/p-Xylenes	11.621	106	2334647	183.584	ug/l		99
69) o-Xylene	11.950	106	979527	82.239	ug/l		98
73) Isopropylbenzene	12.255	105	2066252	86.285	ug/l		76
78) n-propylbenzene	12.590	91	304969	10.697	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	2717714	140.425	ug/l		99
84) 1,2,4-Trimethylbenzene	13.035	105	7563336	392.581	ug/l		96
86) p-Isopropyltoluene	13.285	119	1058617	49.669	ug/l	#	78
89) n-Butylbenzene	13.609	91	44480m	2.272	ug/l		

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 14 01:24:42 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 :
11M-N

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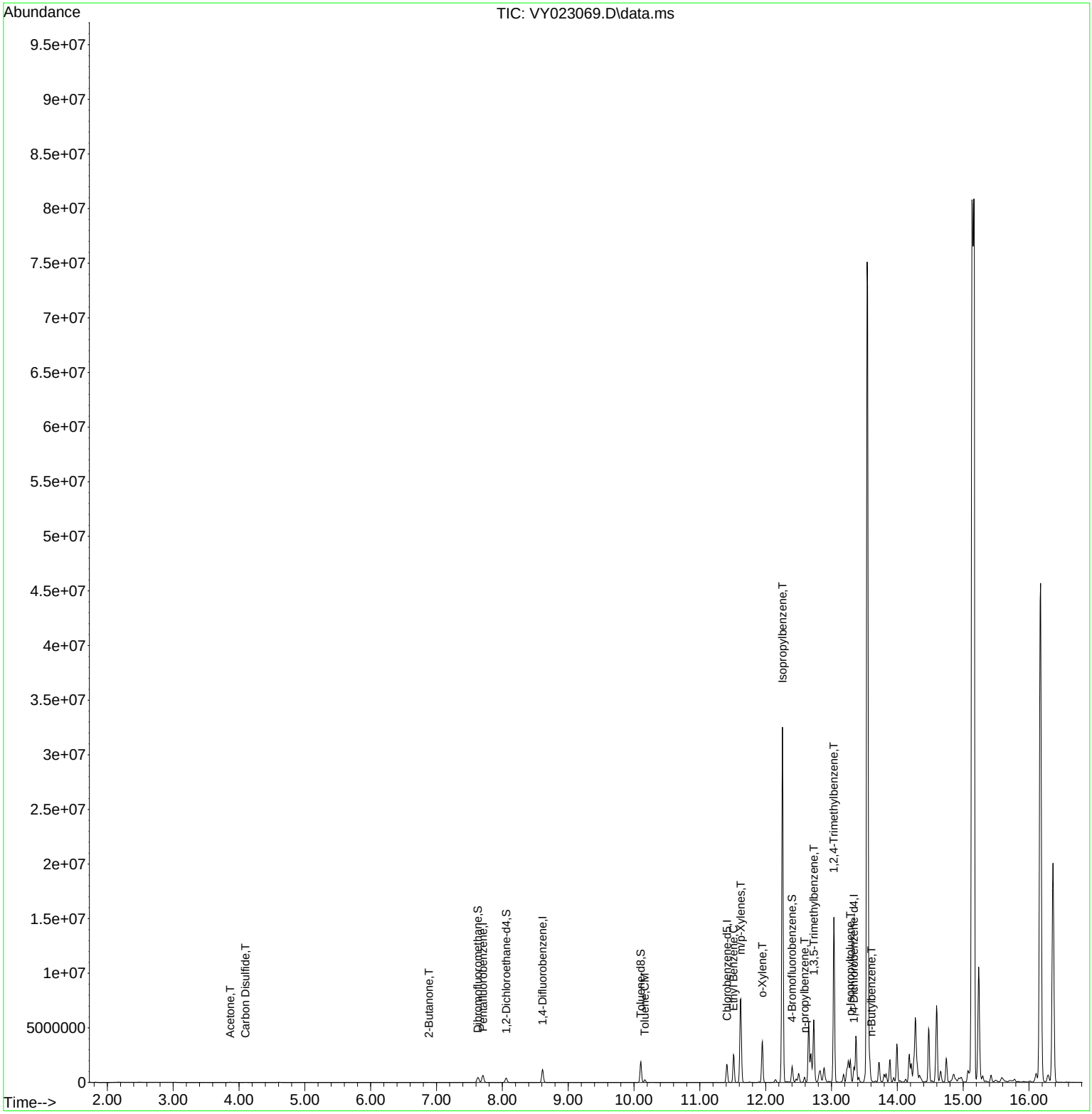

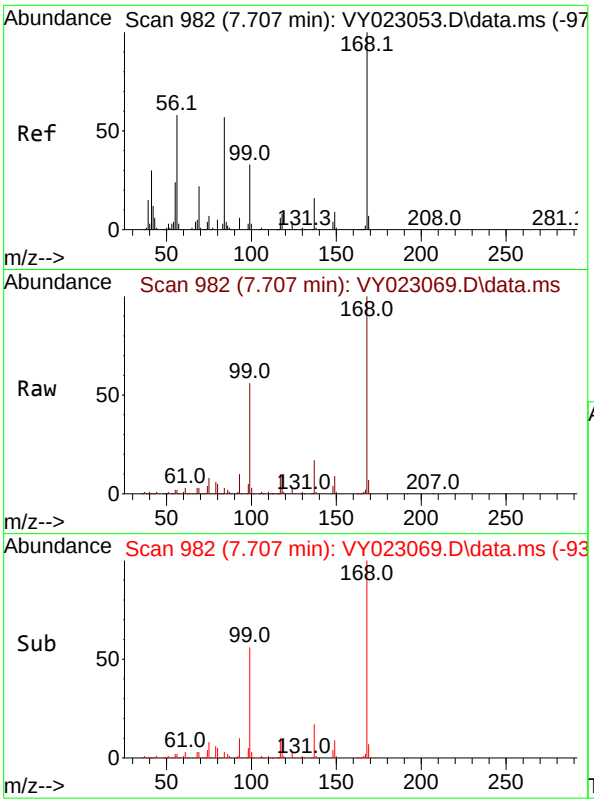

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:168 Resp: 49948

Ion	Ratio	Lower	Upper
168	100		
99	55.6	42.8	64.2

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
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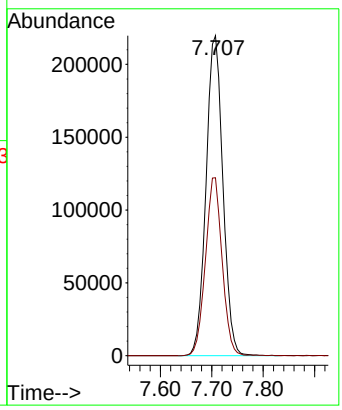
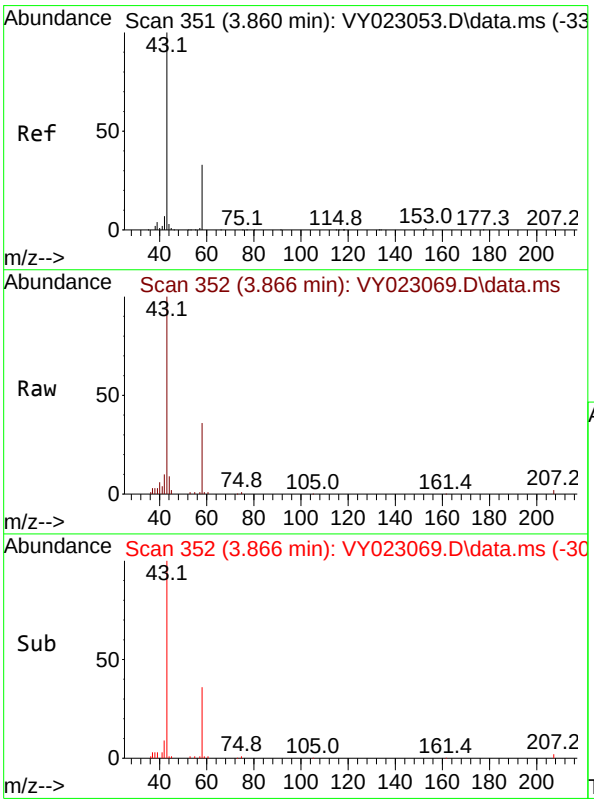
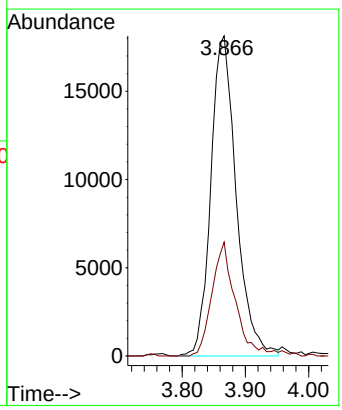


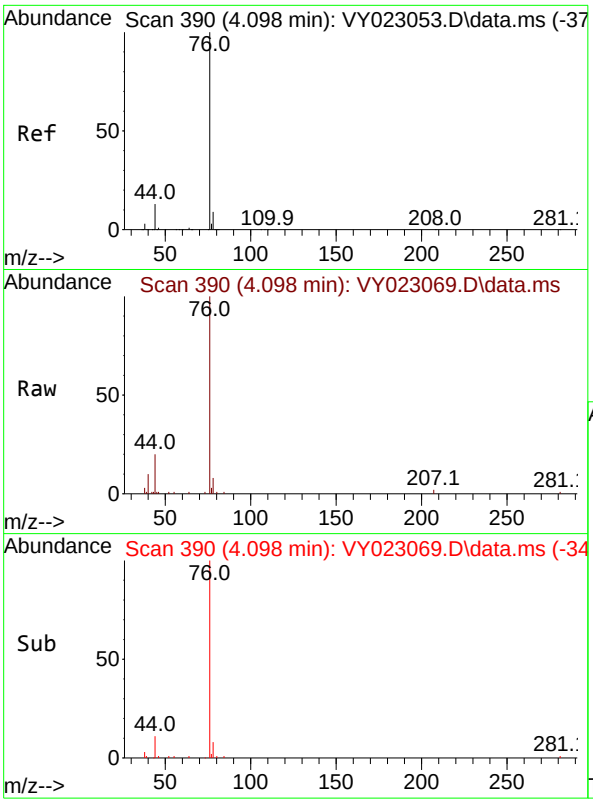


#16
Acetone
Concen: 49.067 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 50603

Ion	Ratio	Lower	Upper
43	100		
58	35.5	27.1	40.7





#17
Carbon Disulfide
Concen: 1.582 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 76 Resp: 2483

Ion	Ratio	Lower	Upper
76	100		
78	8.1	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

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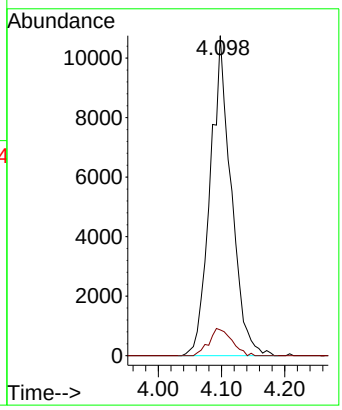
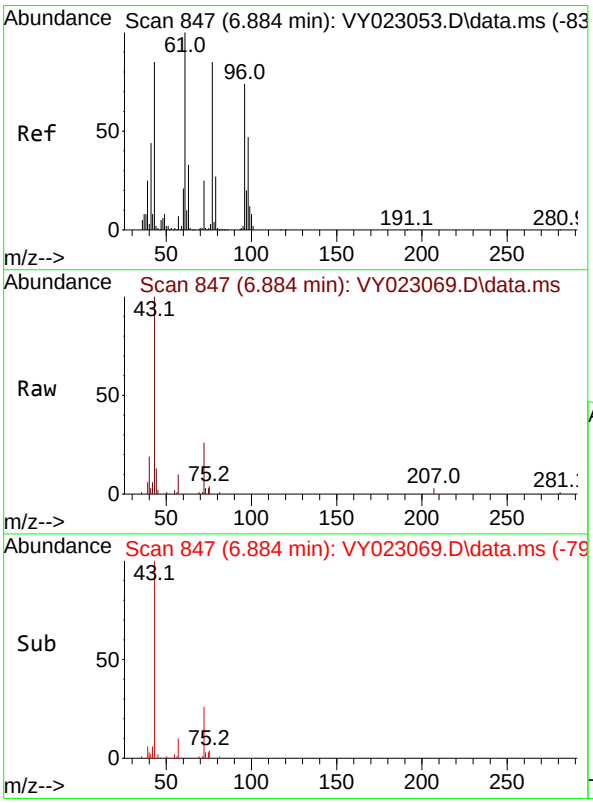
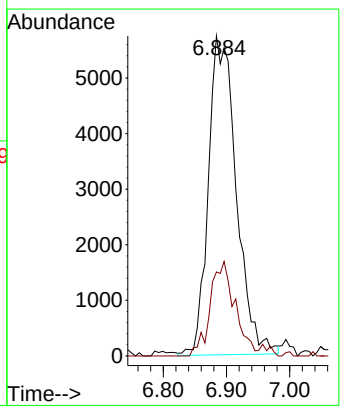


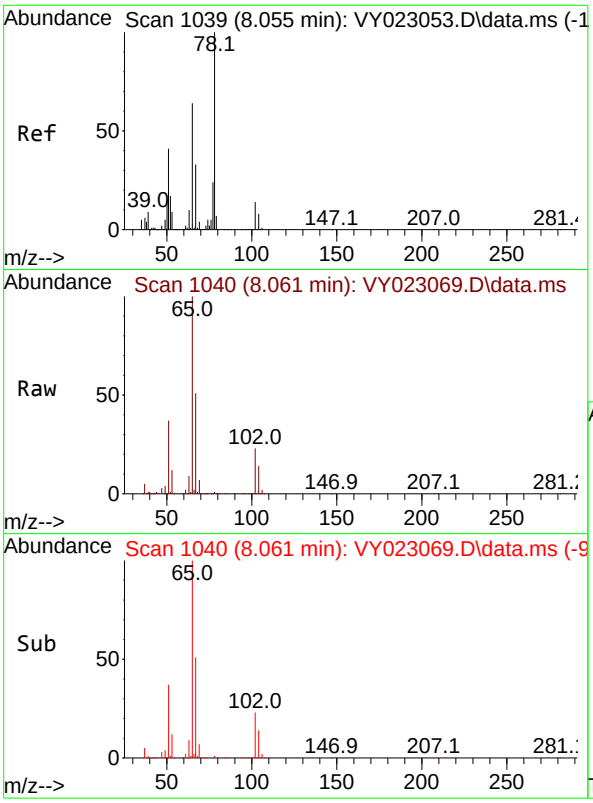


#25
2-Butanone
Concen: 12.534 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580

Ion	Ratio	Lower	Upper
43	100		
72	26.5	23.5	35.3

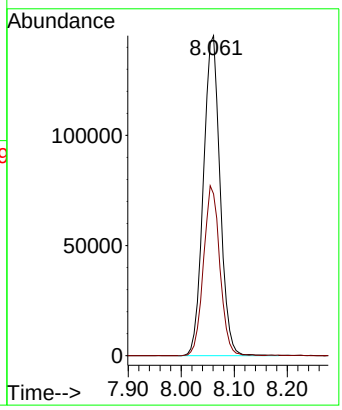




#33
1,2-Dichloroethane-d4
Concen: 66.579 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 65 Resp: 31694

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
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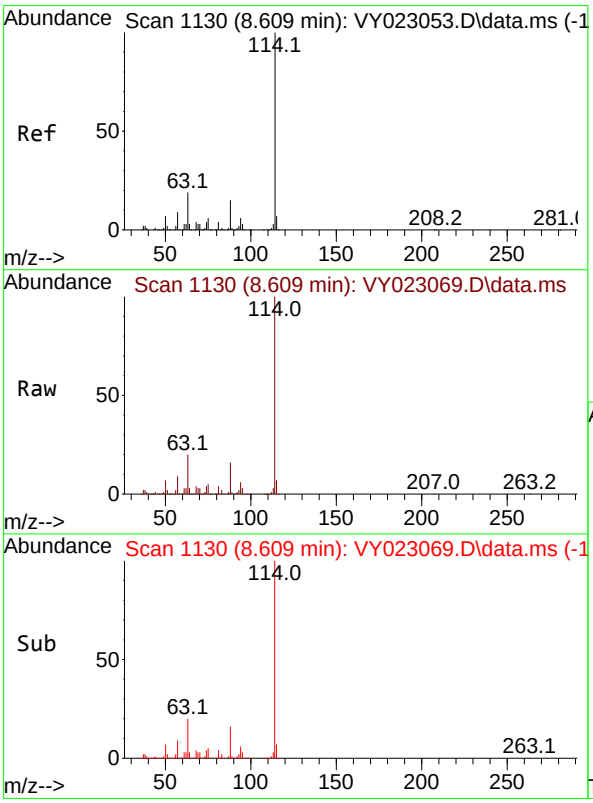
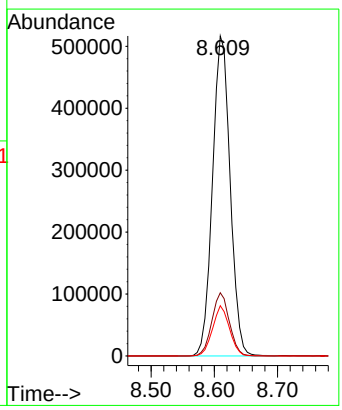
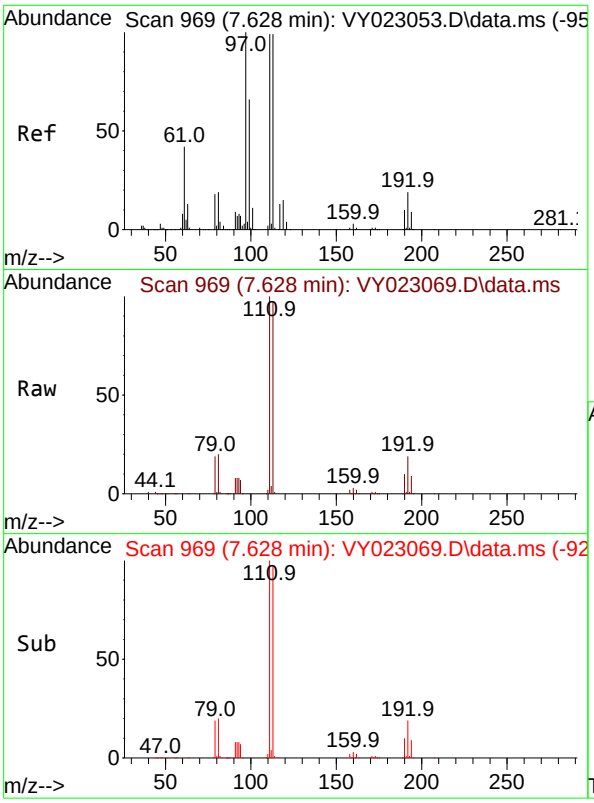


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:114 Resp: 998493

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.7	0.0	30.0





#35
Dibromofluoromethane
Concen: 55.193 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:113 Resp: 32975

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.1	121.7
192	19.7	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
APPROVED

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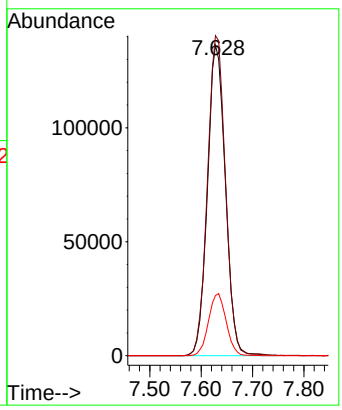
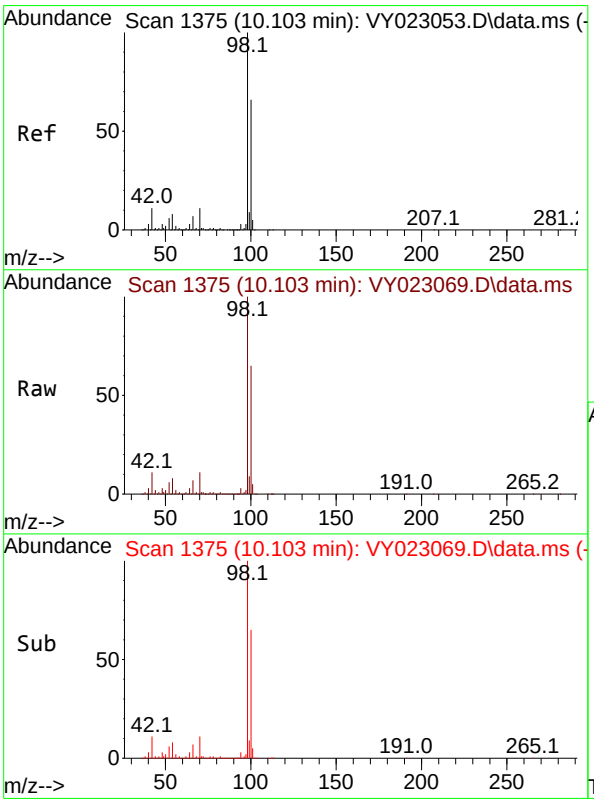
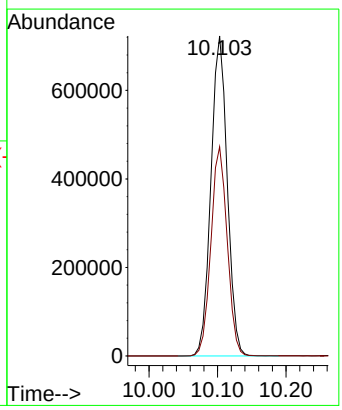


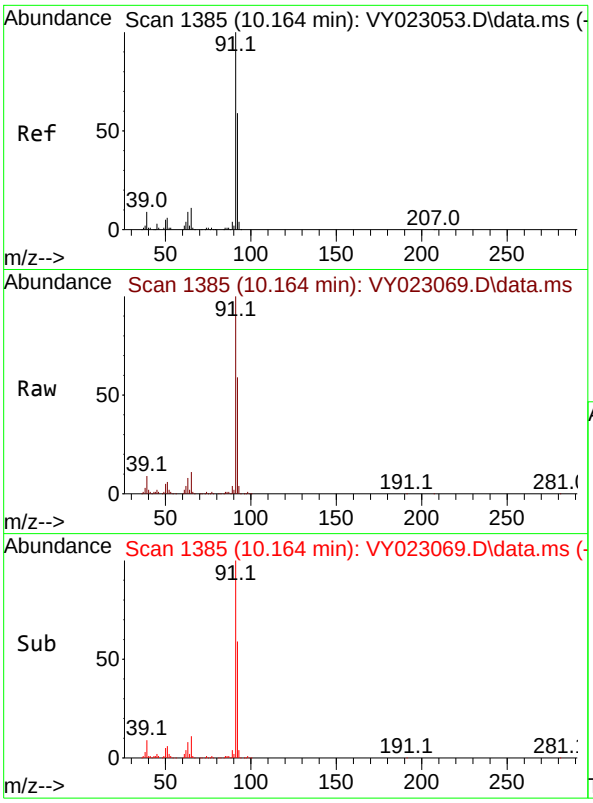


#50
Toluene-d8
Concen: 51.362 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 98 Resp: 1198822

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5

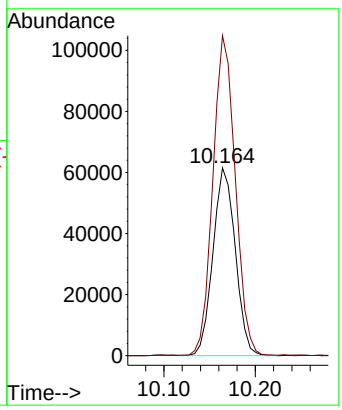




#52
Toluene
Concen: 6.010 ug/l
RT: 10.164 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 92 Resp: 10446

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.4	204.6



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
APPROVED

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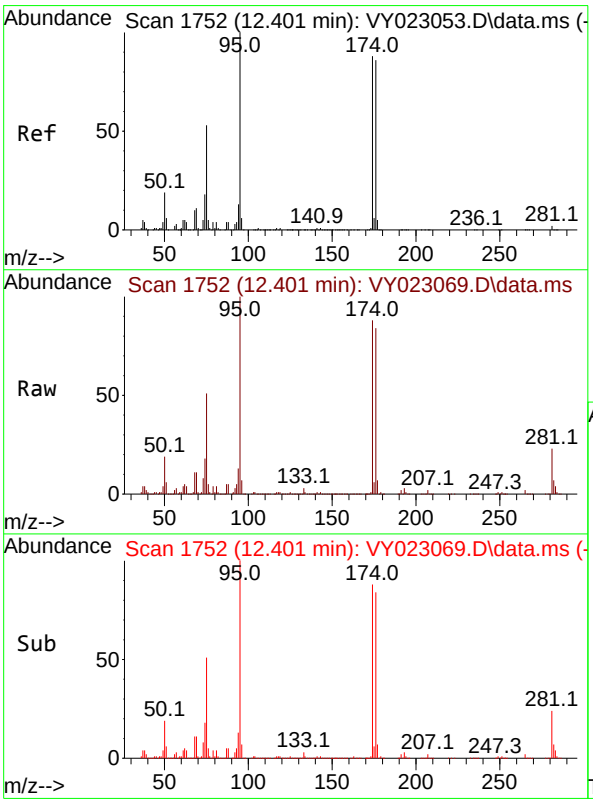
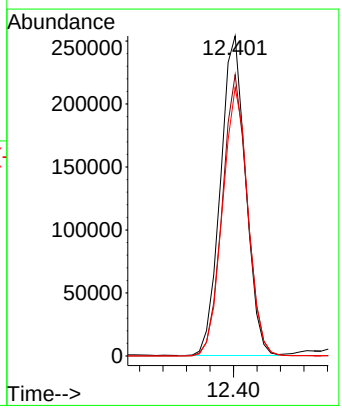
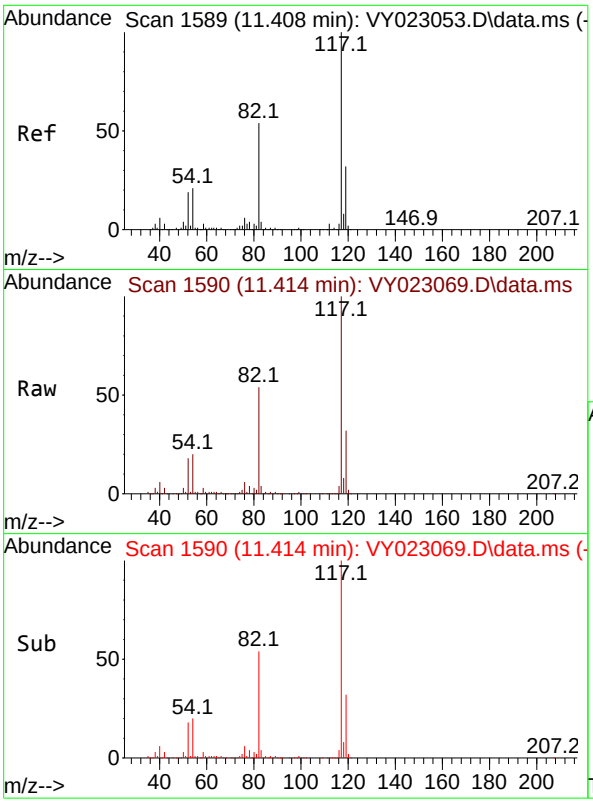


#62
4-Bromofluorobenzene
Concen: 50.409 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 95 Resp: 378383

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	171.6
176	84.7	0.0	167.6

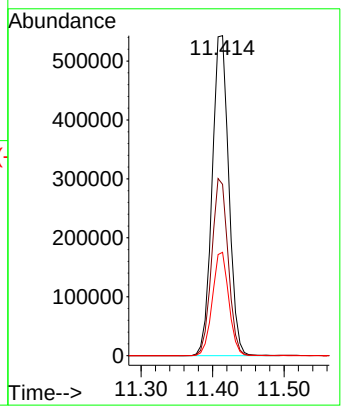




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:117 Resp: 87717

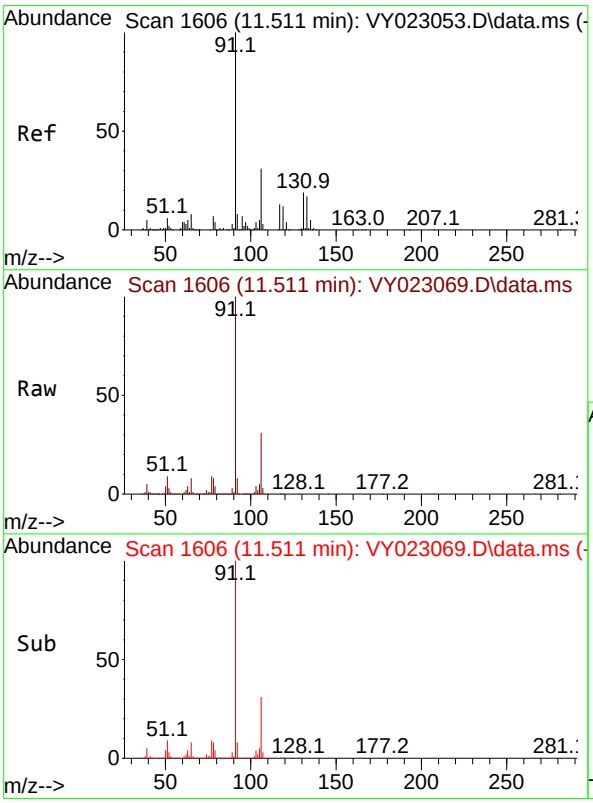
Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.4	65.0
119	32.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
APPROVED

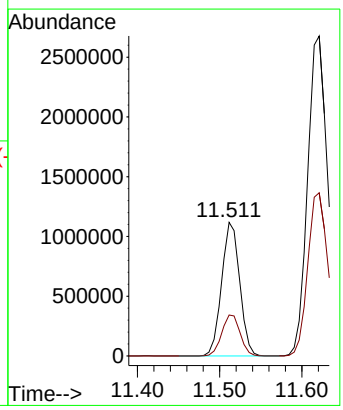
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

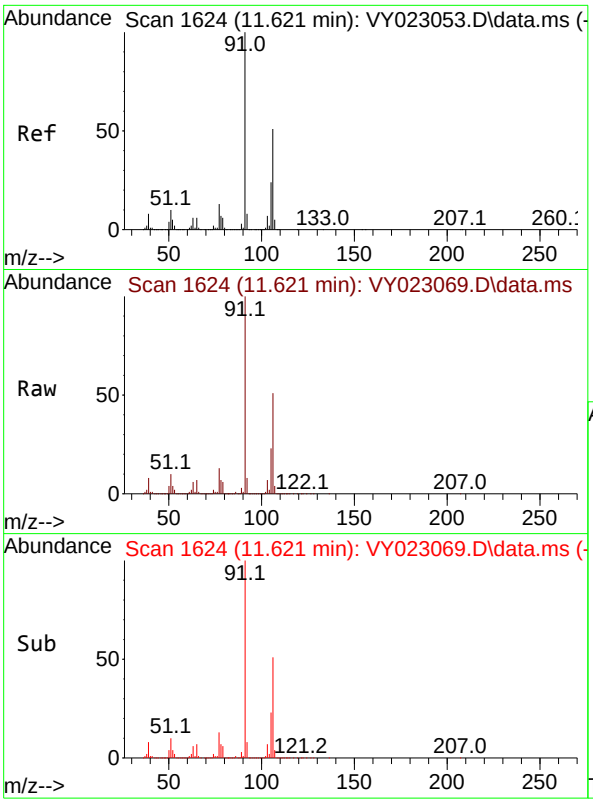


#67
Ethyl Benzene
Concen: 52.554 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 1711204

Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.0	37.4

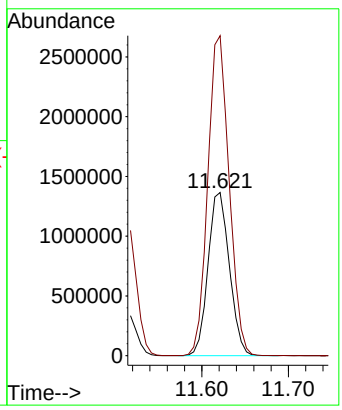




#68
m/p-Xylenes
Concen: 183.584 ug/l
RT: 11.621 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:106 Resp: 233464

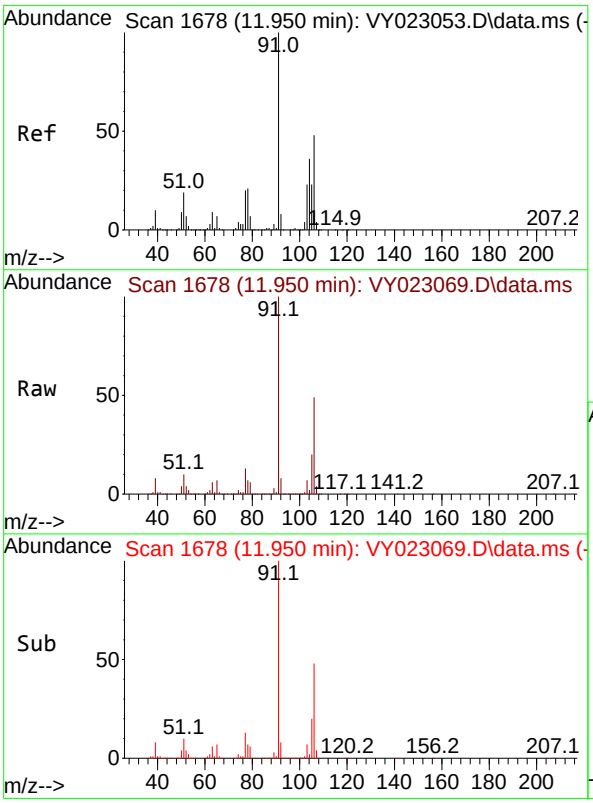
Ion	Ratio	Lower	Upper
106	100		
91	196.2	158.6	238.0



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
APPROVED

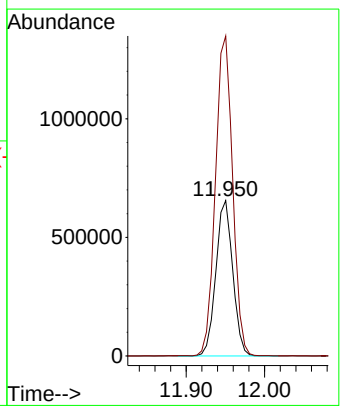
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

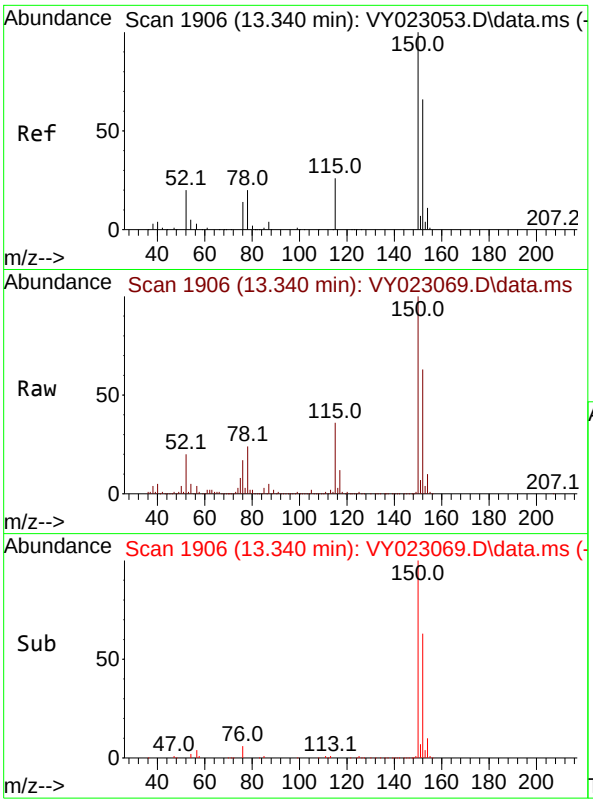


#69
o-Xylene
Concen: 82.239 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:106 Resp: 979527

Ion	Ratio	Lower	Upper
106	100		
91	210.0	103.2	309.4

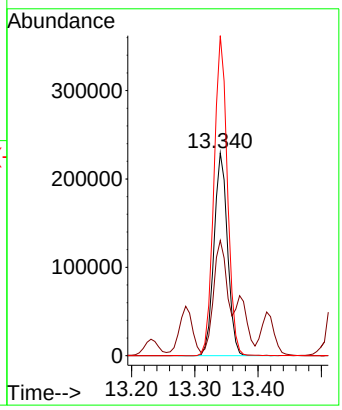




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

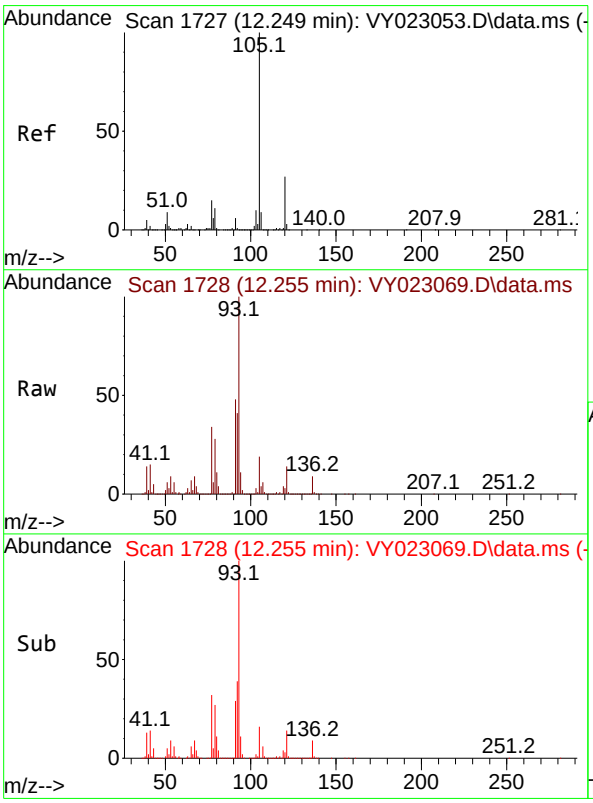
Tgt Ion:152 Resp: 33929

Ion	Ratio	Lower	Upper
152	100		
115	0.0	28.2	84.6#
150	157.3	0.0	348.0



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

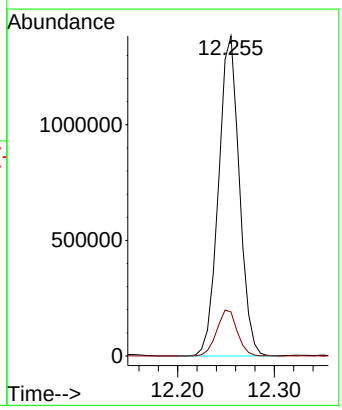
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

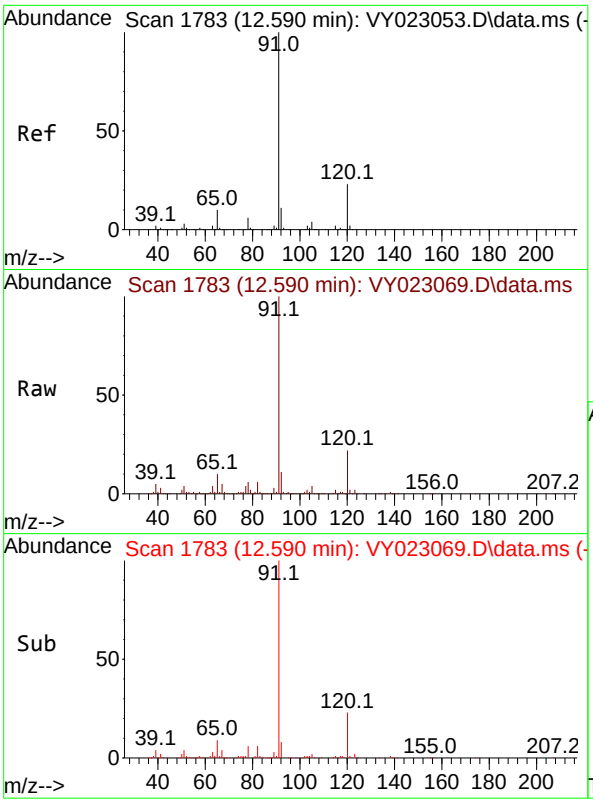


#73
Isopropylbenzene
Concen: 86.285 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 2066252

Ion	Ratio	Lower	Upper
105	100		
120	14.2	13.4	40.2

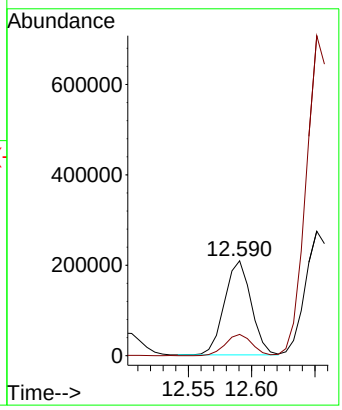




#78
n-propylbenzene
Concen: 10.697 ug/l
RT: 12.590 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

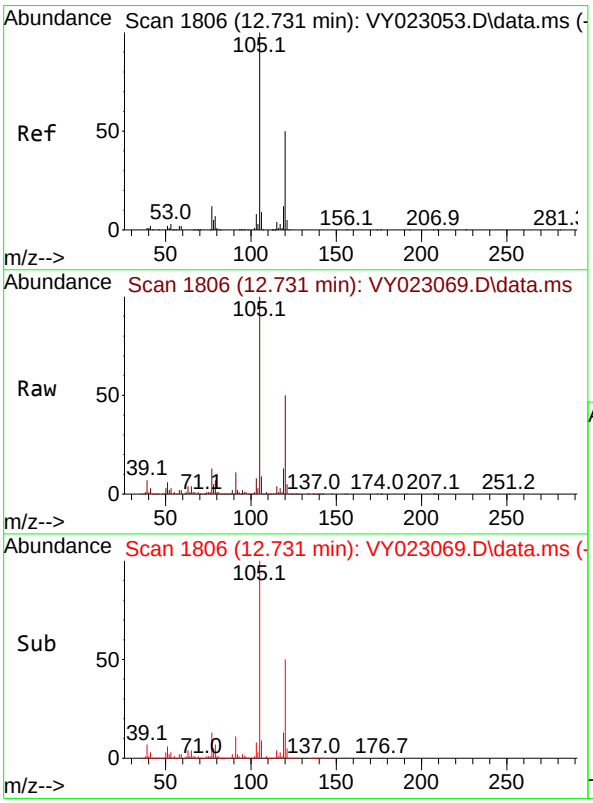
Tgt Ion: 91 Resp: 30496

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

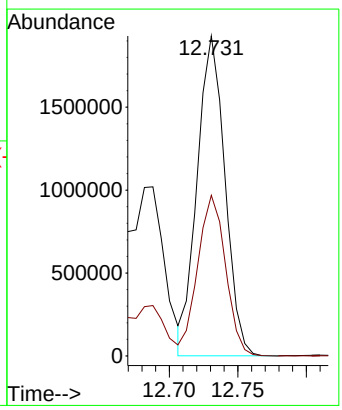
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

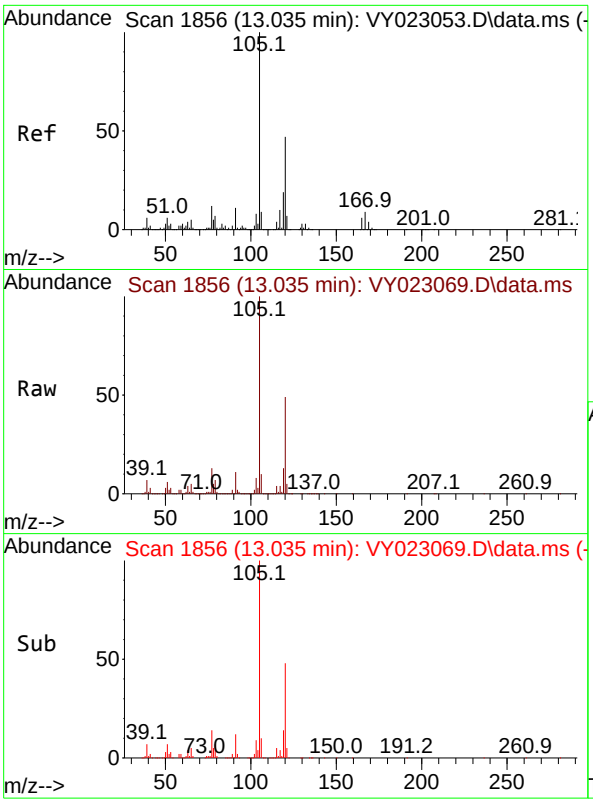


#80
1,3,5-Trimethylbenzene
Concen: 140.425 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 2717714

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.8	74.4

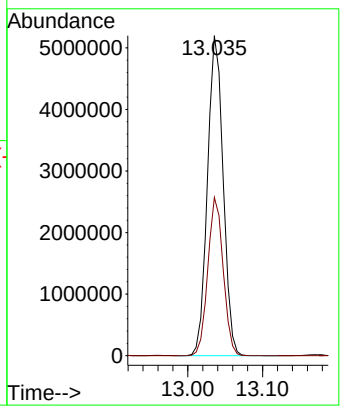




#84
1,2,4-Trimethylbenzene
Concen: 392.581 ug/l
RT: 13.035 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 756333

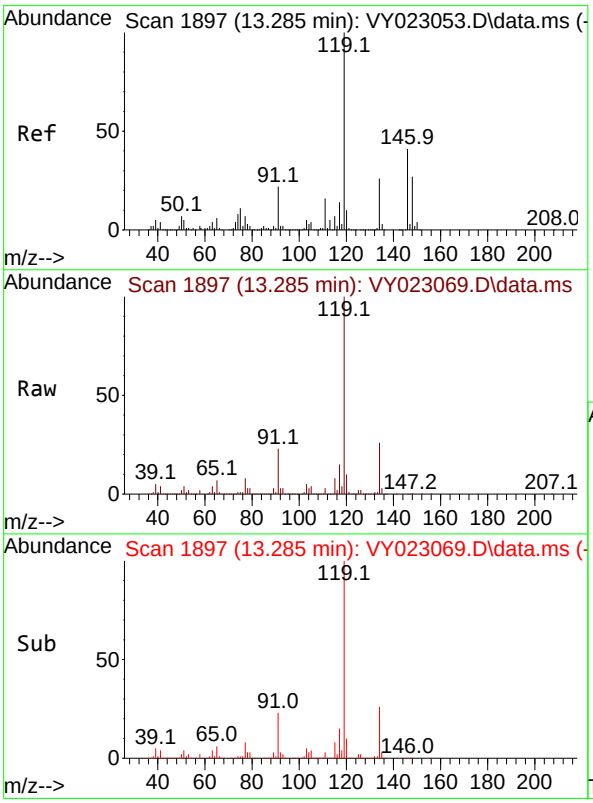
Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.0	69.0



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
APPROVED

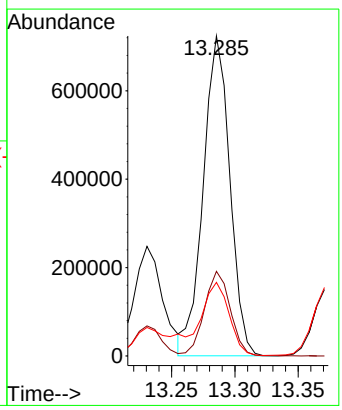
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

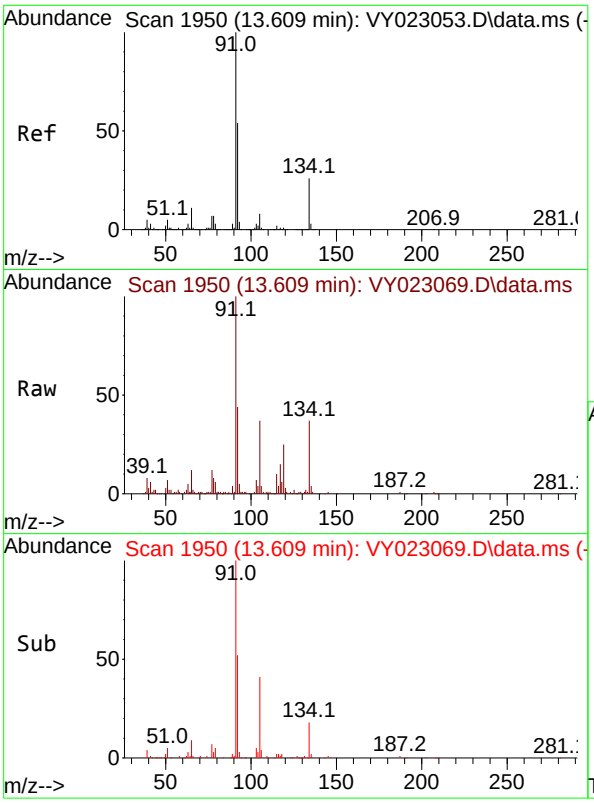


#86
p-Isopropyltoluene
Concen: 49.669 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:119 Resp: 1058617

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.2	39.6
91	0.0	11.3	33.8#

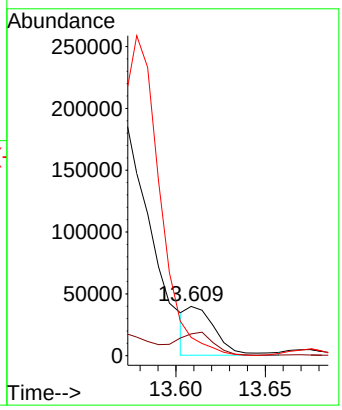




#89
n-Butylbenzene
Concen: 2.272 ug/l m
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 4448

Ion	Ratio	Lower	Upper
91	100		
92	2105.1	26.9	80.1
134	162.9	13.2	39.5#



Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-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: VY023069.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.707	975	982	994	rVB	640528	1465493	1.00%	0.234%
2	8.609	1121	1130	1144	rBV	1192443	2299267	1.57%	0.367%
3	10.103	1365	1375	1381	rBV	1882026	3158063	2.16%	0.504%
4	11.408	1581	1589	1599	rBV	1656961	2685080	1.84%	0.429%
5	11.511	1599	1606	1614	rVV	2521870	3882467	2.65%	0.620%
6	11.621	1614	1624	1635	rVB	7645675	13228639	9.04%	2.112%
7	11.950	1672	1678	1688	rVB	3741379	5708452	3.90%	0.911%
8	12.255	1719	1728	1736	rBV	32518009	47888370	32.73%	7.644%
9	12.401	1746	1752	1758	rBV2	1445602	2400951	1.64%	0.383%
10	12.651	1788	1793	1796	rBV	5507560	8082457	5.52%	1.290%
11	12.688	1796	1799	1802	rVV	2562771	4257149	2.91%	0.680%
12	12.731	1802	1806	1814	rVV	5698182	8837439	6.04%	1.411%
13	12.828	1814	1822	1826	rVV4	1042276	2431751	1.66%	0.388%
14	12.889	1826	1832	1840	rVB2	1311751	2545538	1.74%	0.406%
15	13.035	1847	1856	1863	rBV	15086973	21534809	14.72%	3.438%
16	13.255	1884	1892	1895	rVV2	1897277	4611162	3.15%	0.736%
17	13.285	1895	1897	1902	rVB	1933028	2287214	1.56%	0.365%
18	13.340	1902	1906	1908	rBV	1300626	1932456	1.32%	0.308%
19	13.371	1908	1911	1916	rVB	3992559	5567316	3.81%	0.889%
20	13.541	1928	1939	1954	rBV3	75110711	128526521	87.85%	20.517%
21	13.724	1963	1969	1976	rBV	1779234	2824394	1.93%	0.451%
22	13.889	1991	1996	2001	rVB	2028479	2976250	2.03%	0.475%
23	13.993	2008	2013	2019	rVB	3431691	4959358	3.39%	0.792%
24	14.182	2039	2044	2047	rBV	2539329	4184281	2.86%	0.668%
25	14.212	2047	2049	2052	rVV2	1645565	2094973	1.43%	0.334%
26	14.273	2052	2059	2067	rVV2	5893453	14137476	9.66%	2.257%
27	14.474	2087	2092	2098	rBV	4834556	7238577	4.95%	1.155%
28	14.596	2104	2112	2117	rBV2	7011926	11629595	7.95%	1.856%
29	14.657	2117	2122	2130	rVB3	991819	1779665	1.22%	0.284%
30	14.742	2130	2136	2144	rBV	2133448	3326539	2.27%	0.531%
31	14.858	2144	2155	2163	rBV4	680222	1943668	1.33%	0.310%
32	15.072	2184	2190	2193	rBV2	1040308	1880328	1.29%	0.300%
33	15.133	2194	2200	2203	rBV2	79930443	146304491	100.00%	23.354%
34	15.236	2211	2217	2224	rBV	10263826	17285549	11.81%	2.759%
35	16.108	2351	2360	2363	rBV2	783023	1628574	1.11%	0.260%
36	16.175	2363	2371	2383	rVV2	45674109	88287523	60.35%	14.093%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-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

37	16.291	2383	2390	2395	rVV	650436	1476483	1.01%	0.236%
38	16.364	2395	2402	2413	rVB	20051525	39164484	26.77%	6.252%

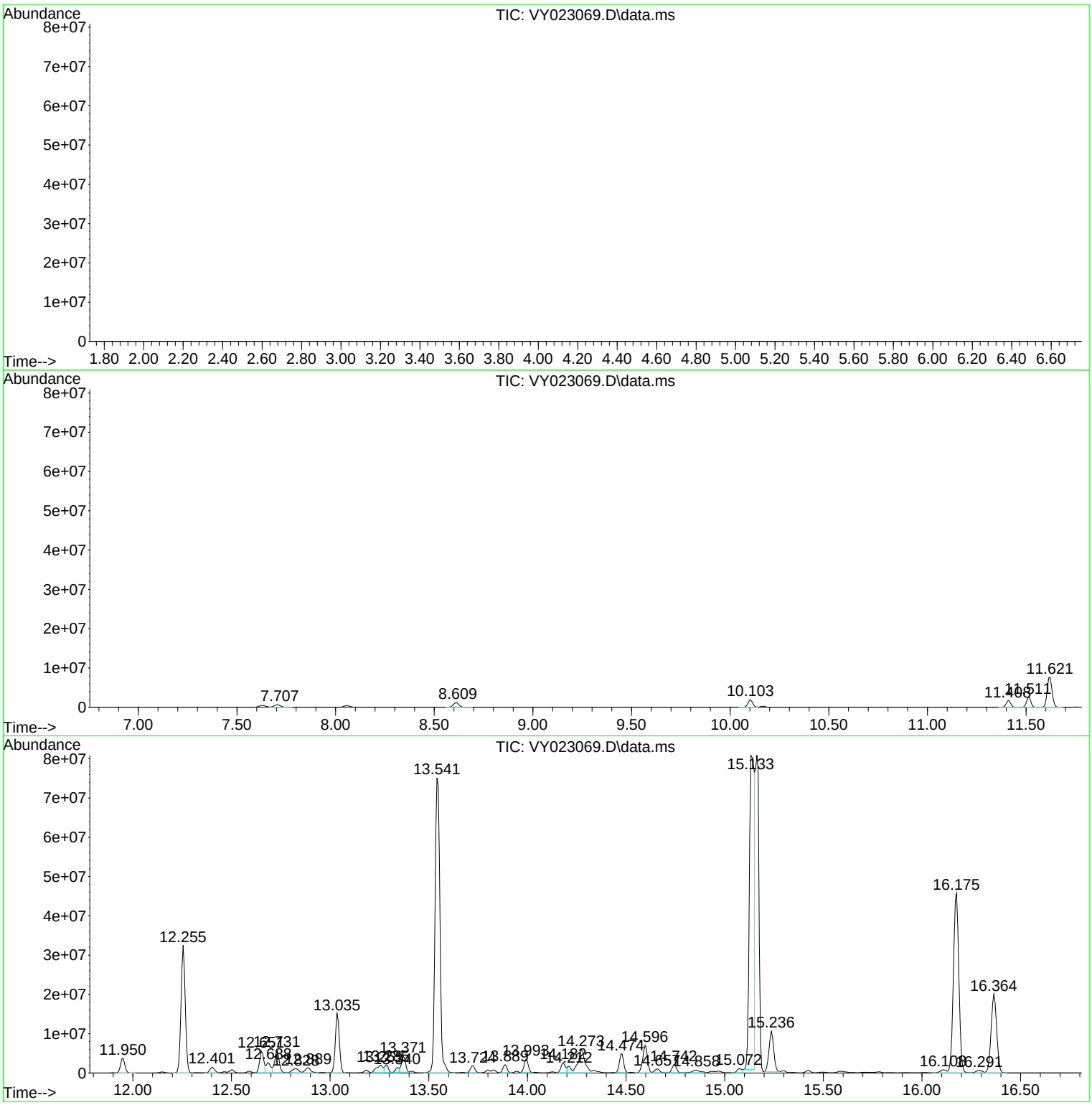
Sum of corrected areas: 626452802

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

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

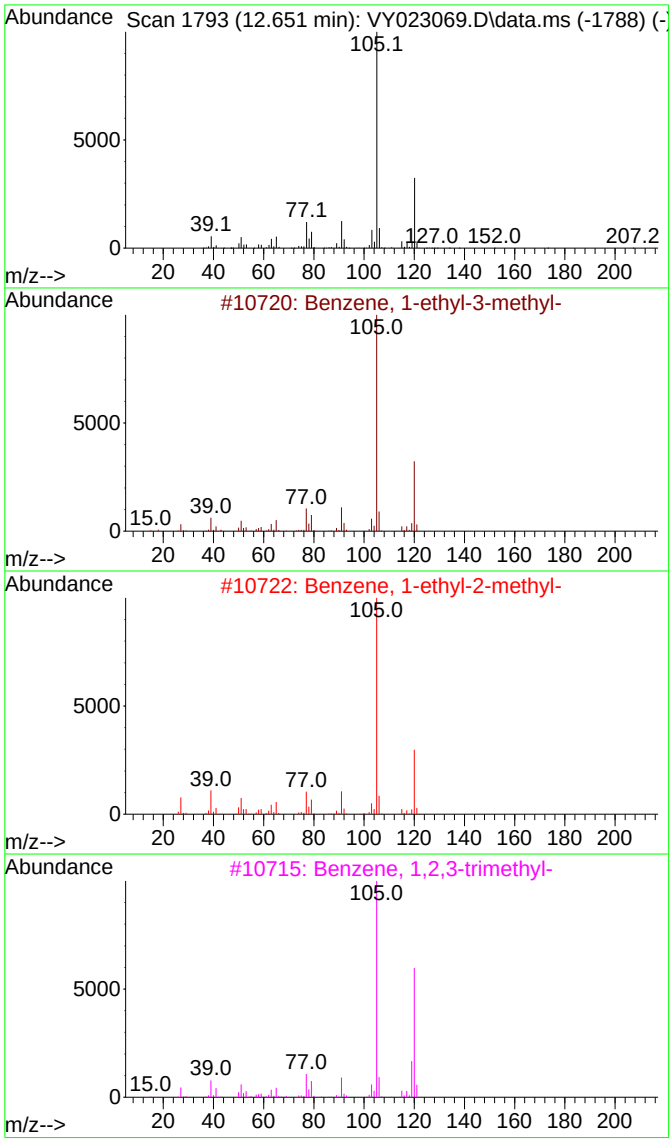
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

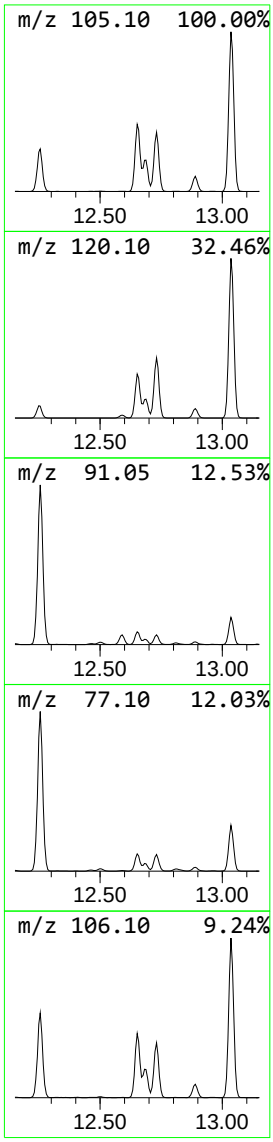
****

Peak Number 1 Benzene, 1-ethyl-3-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.651	209.12 ug/l	8082460	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91





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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On    : 13 Aug 2025  14:55
Operator  : SY/MD
Sample    : Q2819-07
Misc      : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 12   Sample Multiplier: 1

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
```

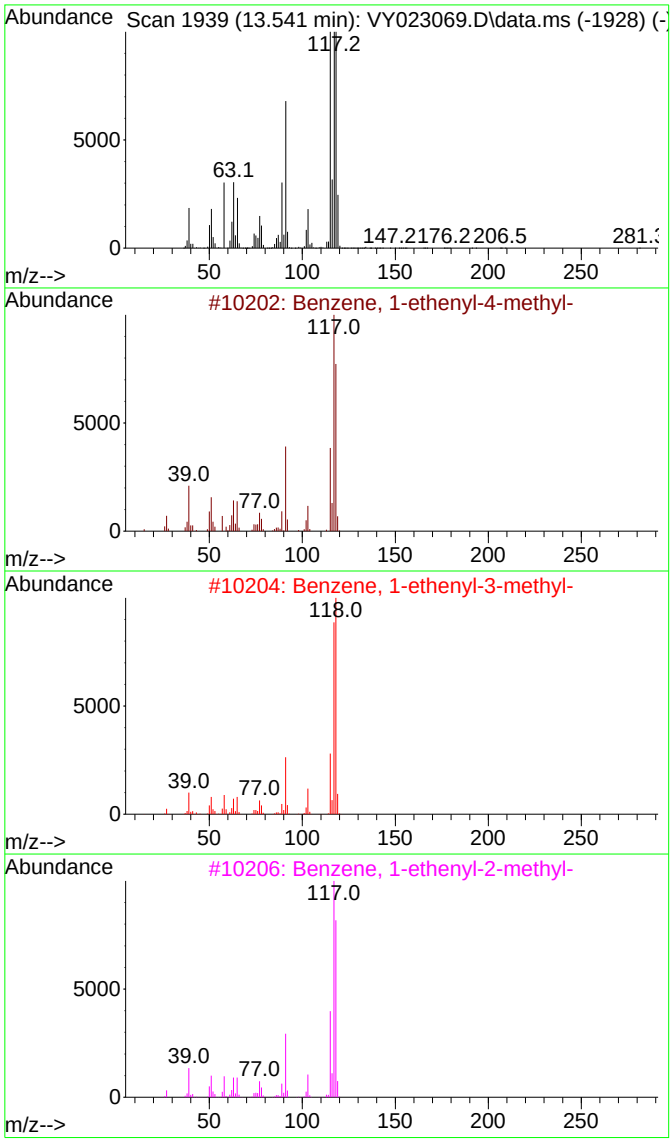
Instrument :
MSVOA_Y
ClientSampleId :
11M-N

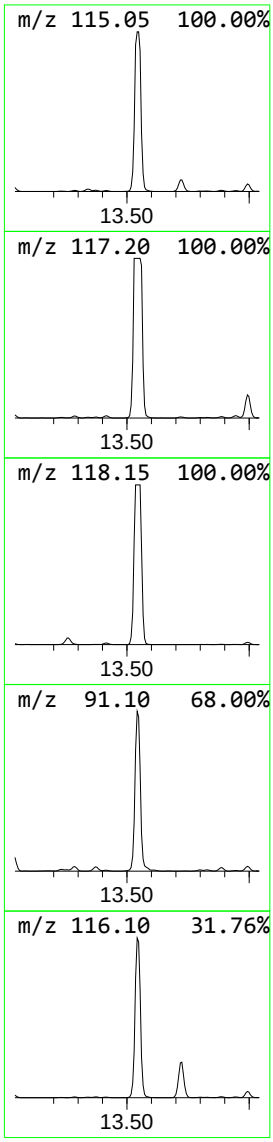
****

Peak Number 2 Benzene, 1-ethenyl-4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.541	3325.47 ug/l	128527000	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	64
2	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	64
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	60
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	50
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	022250-74-4	49





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

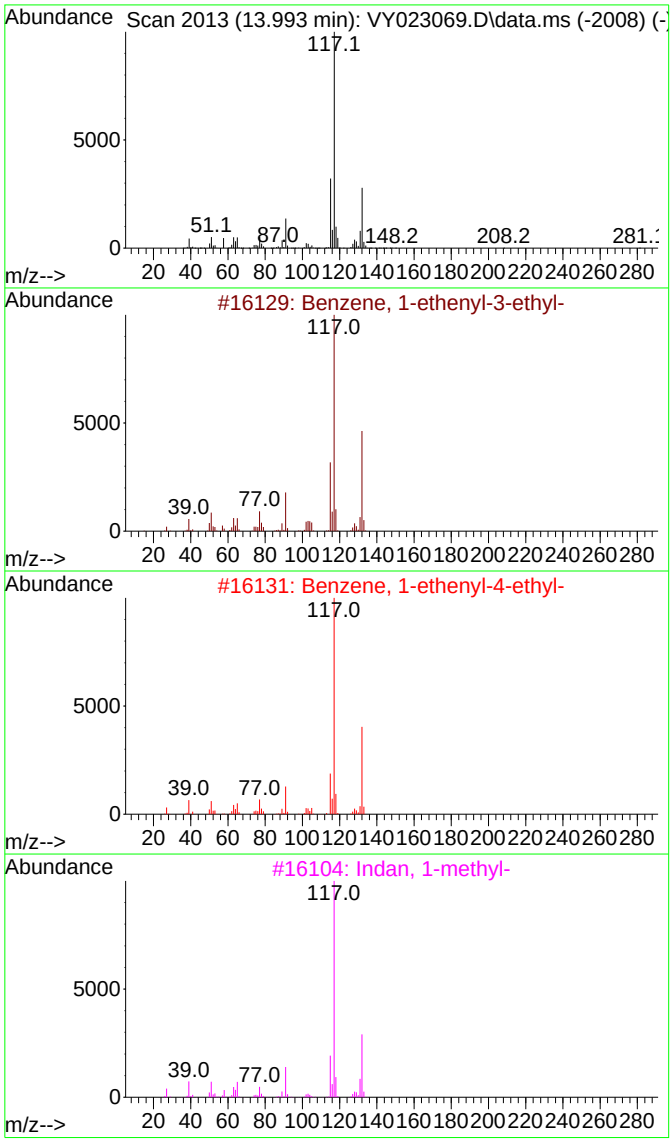
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

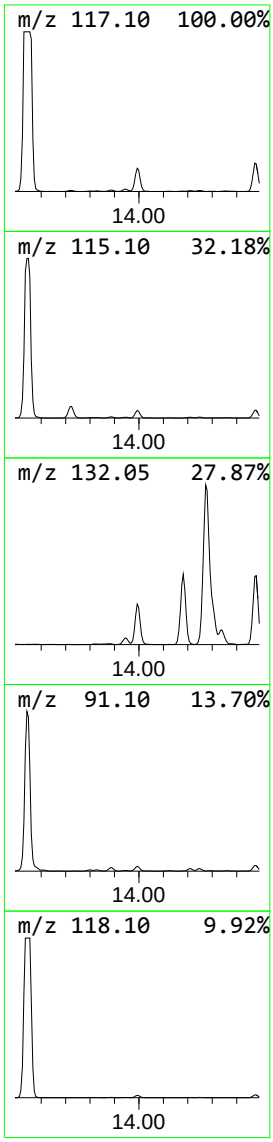
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.993	128.32 ug/l	4959360	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

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

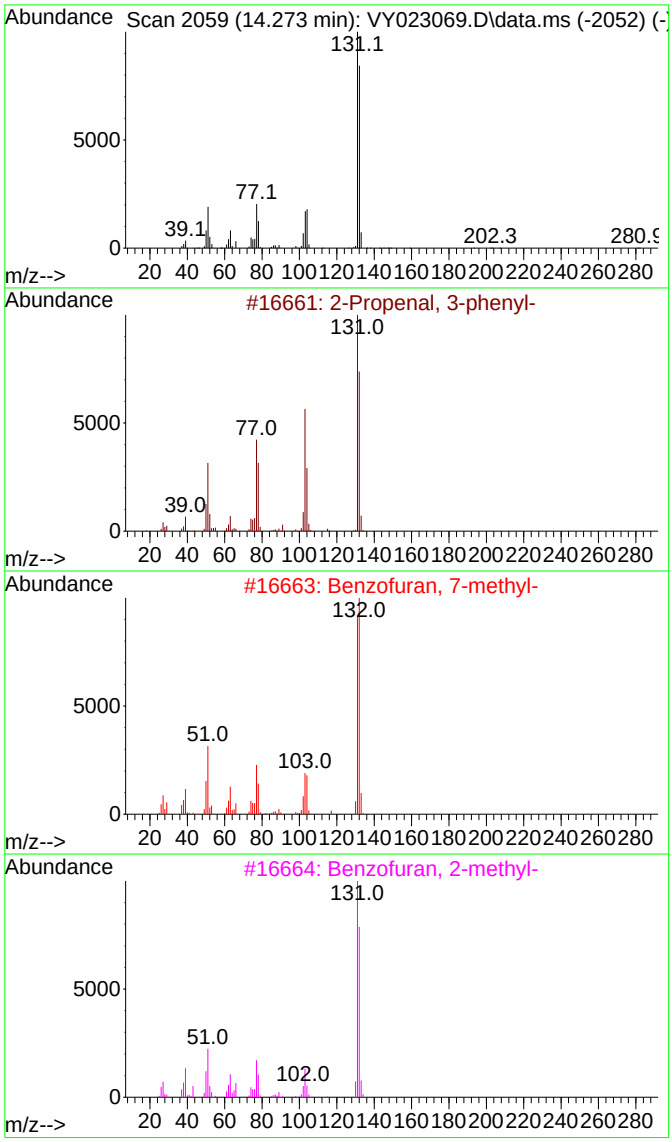
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

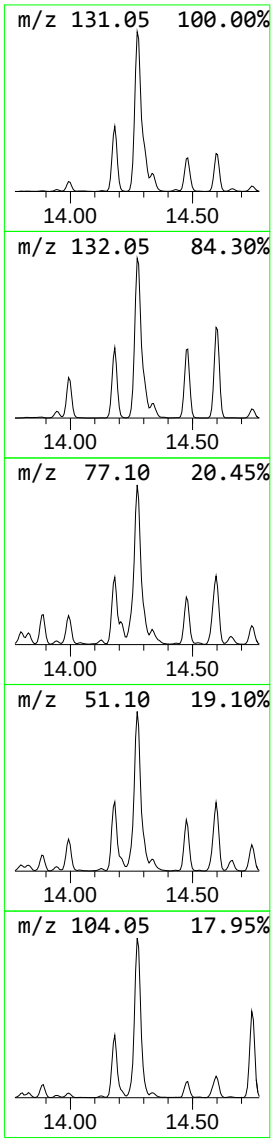
****

Peak Number 4 2-Propenal, 3-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.273	365.79 ug/l	14137500	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenal, 3-phenyl-	132	C9H8O	000104-55-2	94
2	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	94
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
4	Cinnamaldehyde, (E)-	132	C9H8O	014371-10-9	91
5	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91





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Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

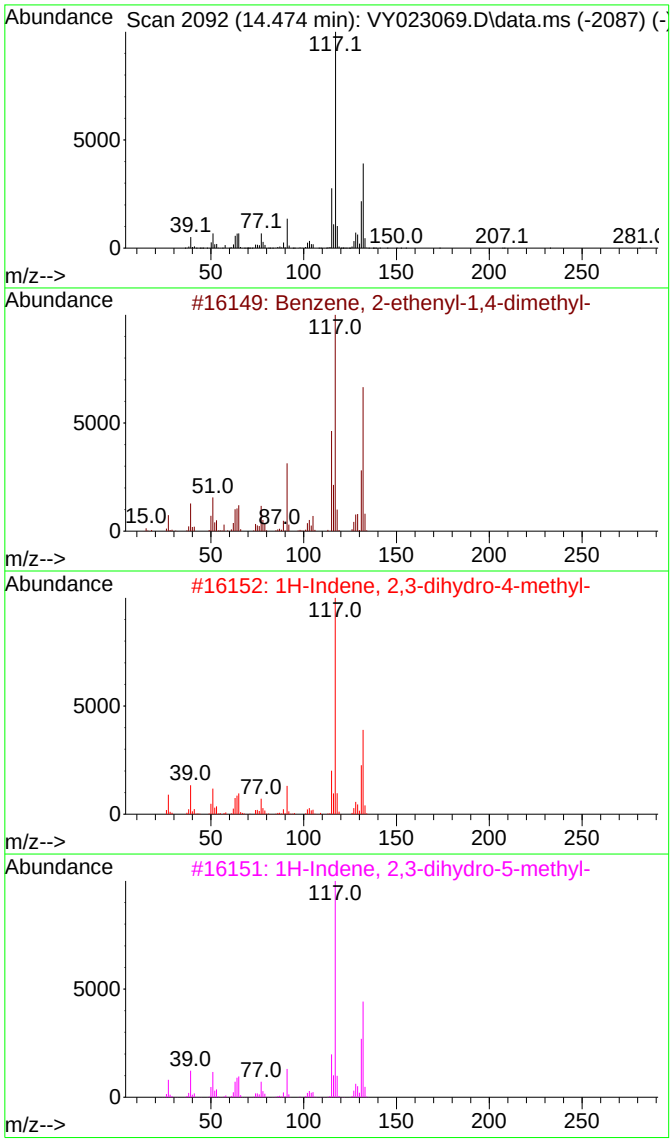
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

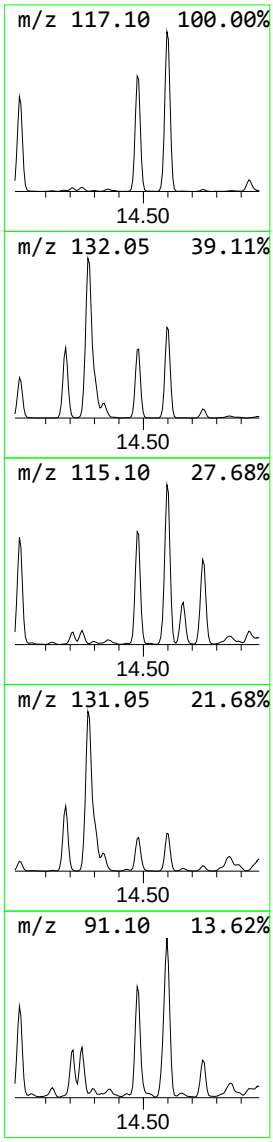
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.474	187.29 ug/l	7238580	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	96
2	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	95
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	93
4	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

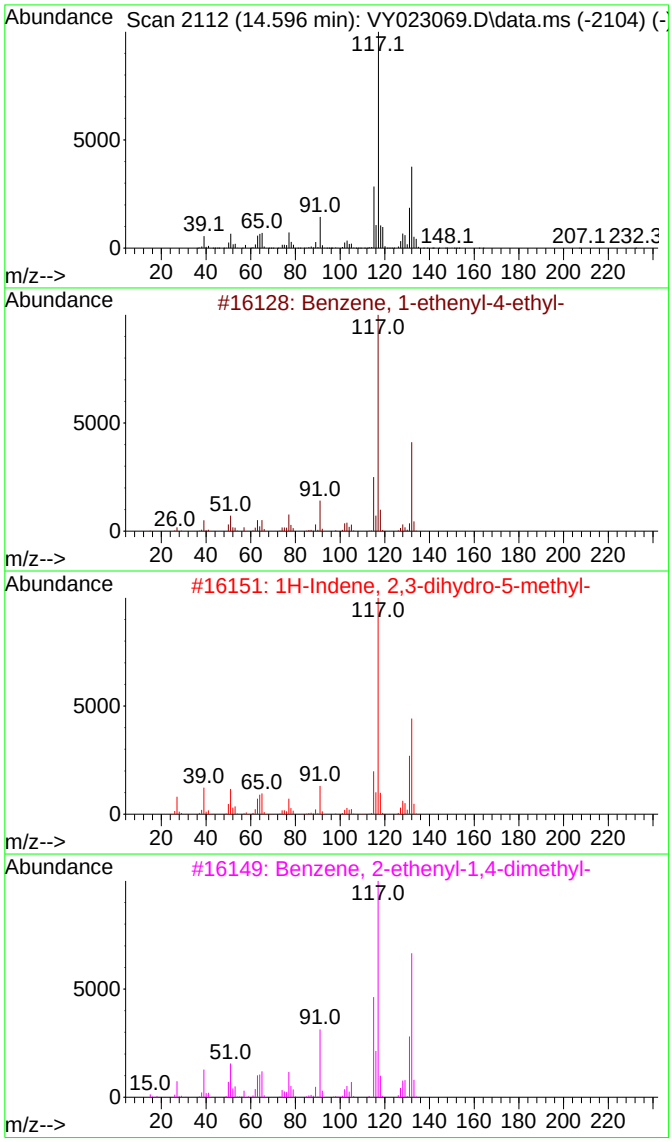
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

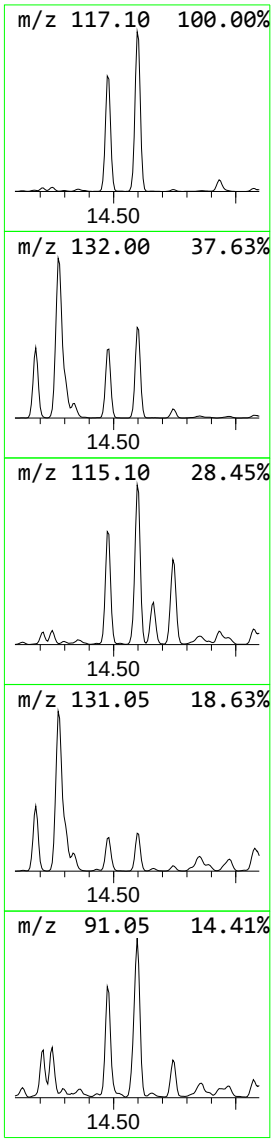
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.596	300.90 ug/l	11629600	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	91
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	91
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	91
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	90
5	1-Phenyl-1-butene	132	C10H12	000824-90-8	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

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

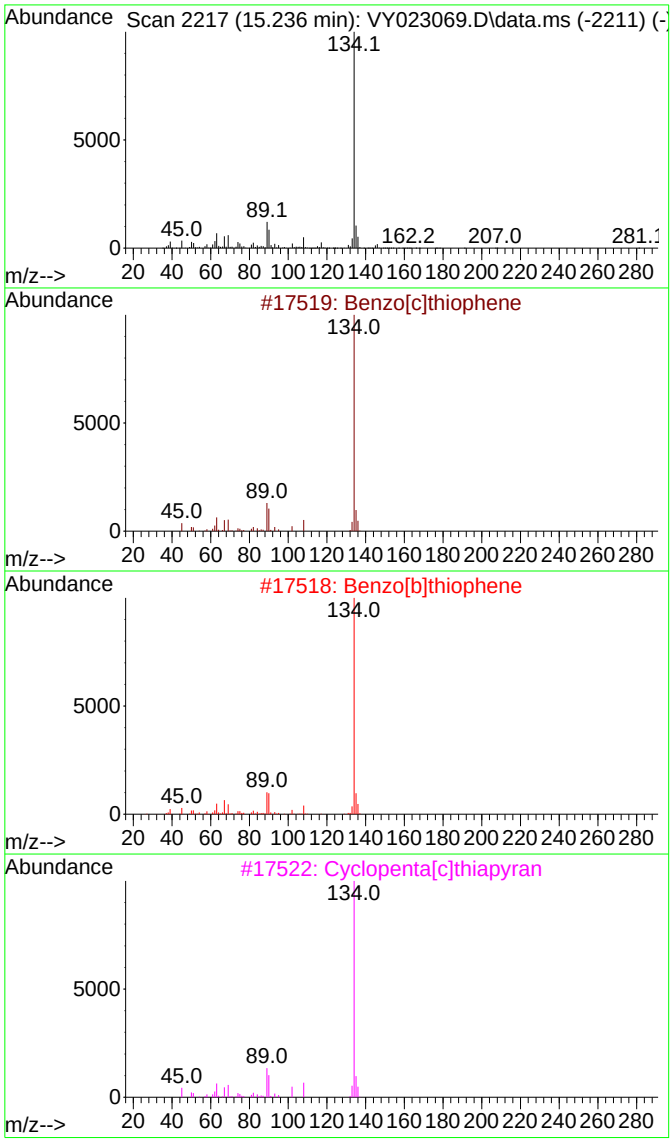
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

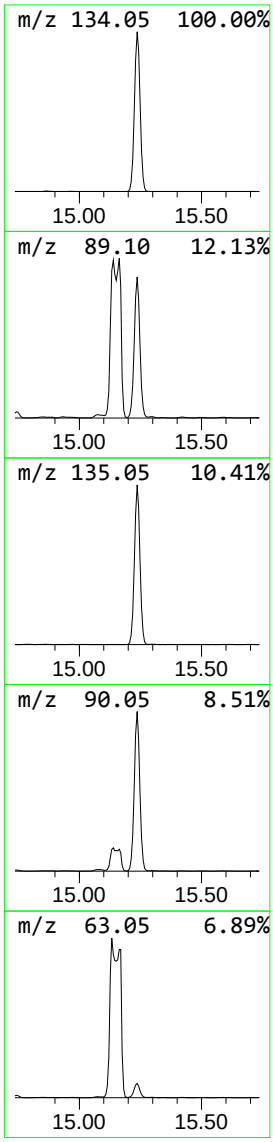
****

Peak Number 8 Benzo[c]thiophene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.236	447.24 ug/l	17285500	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]thiophene	134	C8H6S	000270-82-6	97
2	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
3	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	94
4	5H-Pyrrolo(3,2-d)pyrimidin-4-amine	134	C6H6N4	002227-98-7	59
5	3-Deazaadenine	134	C6H6N4	006811-77-4	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

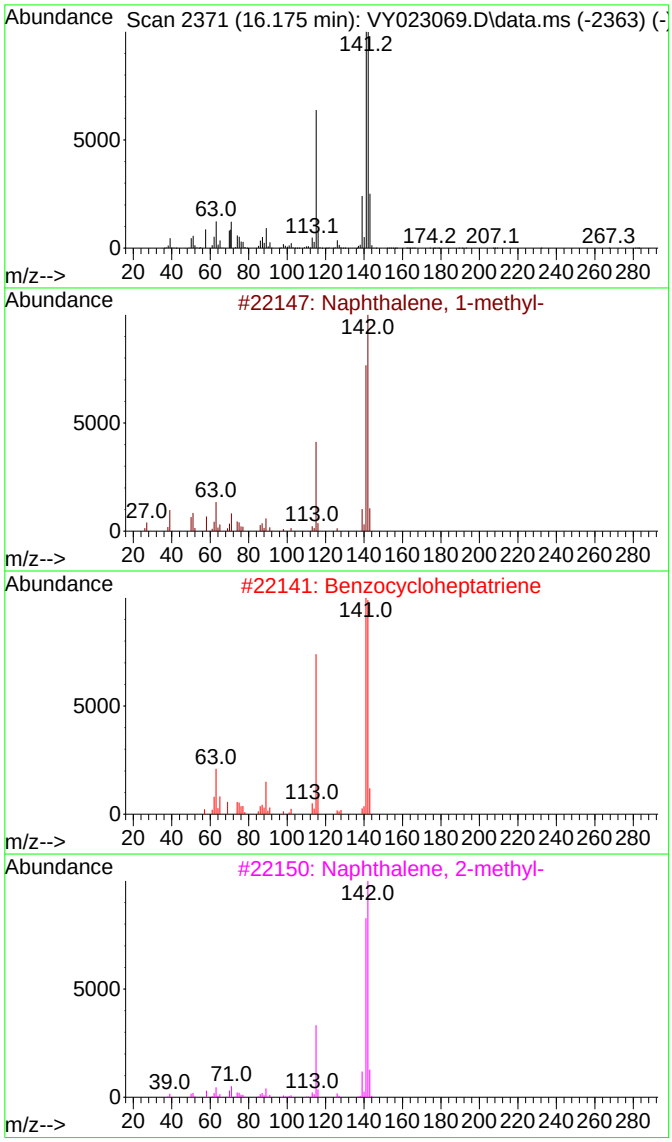
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

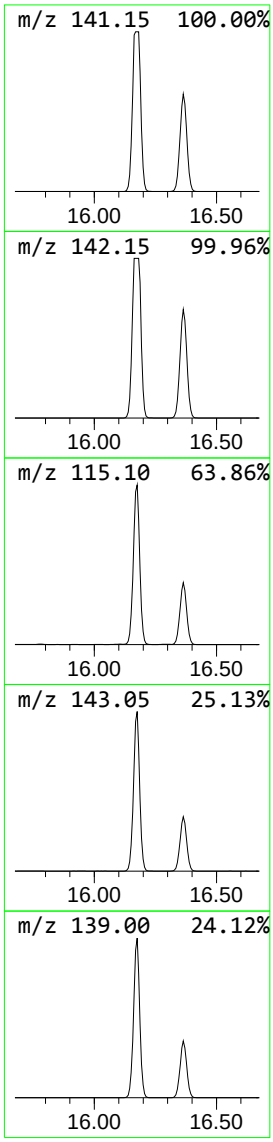
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.175	2284.33 ug/l	88287500	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	93
2	Benzocycloheptatriene	142	C11H10	000264-09-5	91
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	90
4	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	90
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

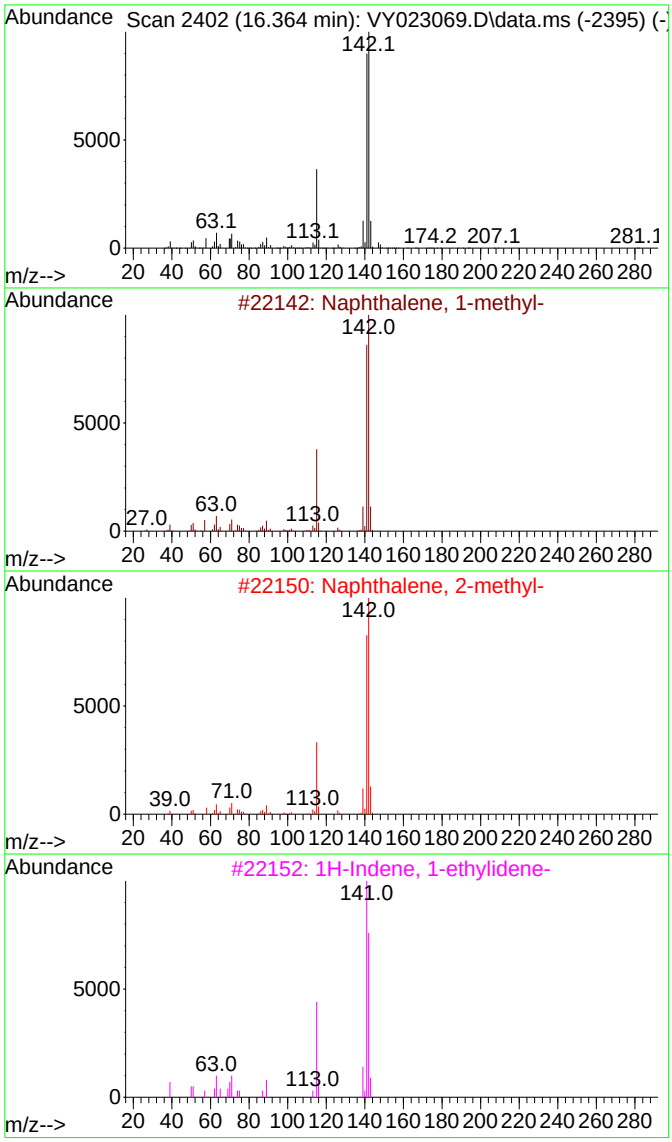
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

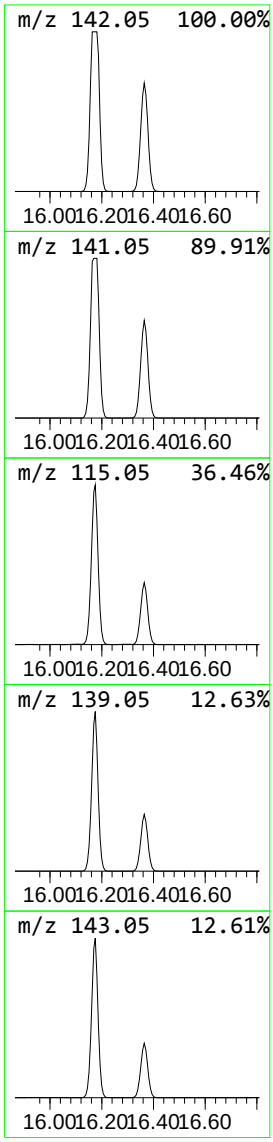
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 1H-Indene, 1-ethylidene- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.364	1013.33 ug/l	39164500	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	94
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-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
Benzene, 1-ethy...	12.651	209.1	ug/l	8082460	4	13.340	1932460	50.0
Benzene, 1-ethe...	13.541	3325.5	ug/l	128527000	4	13.340	1932460	50.0
Benzene, 1-ethe...	13.993	128.3	ug/l	4959360	4	13.340	1932460	50.0
2-Propenal, 3-p...	14.273	365.8	ug/l	14137500	4	13.340	1932460	50.0
Benzene, 2-ethe...	14.474	187.3	ug/l	7238580	4	13.340	1932460	50.0
Benzene, 1-ethe...	14.596	300.9	ug/l	11629600	4	13.340	1932460	50.0
Benzo[c]thiophene	15.236	447.2	ug/l	17285500	4	13.340	1932460	50.0
Naphthalene, 1-...	16.175	2284.3	ug/l	88287500	4	13.340	1932460	50.0
1H-Indene, 1-et...	16.364	1013.3	ug/l	39164500	4	13.340	1932460	50.0

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.8
Sample Wt/Vol:	5.47 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
VY023070.D	1	08/13/25 15:19	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	5.10	U	1.50	5.10	6.40	ug/Kg
74-87-3	Chloromethane	3.20	U	1.50	3.20	6.40	ug/Kg
75-01-4	Vinyl Chloride	3.20	U	1.00	3.20	6.40	ug/Kg
74-83-9	Bromomethane	5.10	U	1.40	5.10	6.40	ug/Kg
75-00-3	Chloroethane	3.20	U	1.60	3.20	6.40	ug/Kg
75-69-4	Trichlorofluoromethane	5.10	U	1.50	5.10	6.40	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	U	1.30	3.20	6.40	ug/Kg
75-35-4	1,1-Dichloroethene	3.20	U	1.30	3.20	6.40	ug/Kg
67-64-1	Acetone	20.7	J	6.00	25.5	31.8	ug/Kg
75-15-0	Carbon Disulfide	5.10	U	1.30	5.10	6.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	3.20	U	0.93	3.20	6.40	ug/Kg
79-20-9	Methyl Acetate	5.10	U	2.00	5.10	6.40	ug/Kg
75-09-2	Methylene Chloride	10.2	U	4.50	10.2	12.7	ug/Kg
156-60-5	trans-1,2-Dichloroethene	3.20	U	1.10	3.20	6.40	ug/Kg
75-34-3	1,1-Dichloroethane	3.20	U	1.00	3.20	6.40	ug/Kg
110-82-7	Cyclohexane	3.20	U	1.00	3.20	6.40	ug/Kg
78-93-3	2-Butanone	25.5	U	8.30	25.5	31.8	ug/Kg
56-23-5	Carbon Tetrachloride	3.20	U	1.20	3.20	6.40	ug/Kg
156-59-2	cis-1,2-Dichloroethene	3.20	U	0.95	3.20	6.40	ug/Kg
74-97-5	Bromochloromethane	5.10	U	1.50	5.10	6.40	ug/Kg
67-66-3	Chloroform	5.10	U	1.10	5.10	6.40	ug/Kg
71-55-6	1,1,1-Trichloroethane	3.20	U	1.20	3.20	6.40	ug/Kg
108-87-2	Methylcyclohexane	3.20	U	1.20	3.20	6.40	ug/Kg
71-43-2	Benzene	3.20	U	1.00	3.20	6.40	ug/Kg
107-06-2	1,2-Dichloroethane	3.20	U	1.00	3.20	6.40	ug/Kg
79-01-6	Trichloroethene	3.20	U	1.00	3.20	6.40	ug/Kg
78-87-5	1,2-Dichloropropane	3.20	U	1.20	3.20	6.40	ug/Kg
75-27-4	Bromodichloromethane	3.20	U	0.99	3.20	6.40	ug/Kg
108-10-1	4-Methyl-2-Pentanone	15.9	U	4.60	15.9	31.8	ug/Kg
108-88-3	Toluene	3.20	U	0.99	3.20	6.40	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.8
Sample Wt/Vol:	5.47 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
VY023070.D	1	08/13/25 15:19	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	3.20	U	0.83	3.20	6.40	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	3.20	U	0.79	3.20	6.40	ug/Kg
79-00-5	1,1,2-Trichloroethane	3.20	U	1.20	3.20	6.40	ug/Kg
591-78-6	2-Hexanone	15.9	U	4.70	15.9	31.8	ug/Kg
124-48-1	Dibromochloromethane	3.20	U	1.10	3.20	6.40	ug/Kg
106-93-4	1,2-Dibromoethane	3.20	U	1.10	3.20	6.40	ug/Kg
127-18-4	Tetrachloroethene	3.20	U	1.30	3.20	6.40	ug/Kg
108-90-7	Chlorobenzene	3.20	U	1.20	3.20	6.40	ug/Kg
100-41-4	Ethyl Benzene	3.20	U	0.85	3.20	6.40	ug/Kg
179601-23-1	m/p-Xylenes	6.40	U	1.60	6.40	12.7	ug/Kg
95-47-6	o-Xylene	3.20	U	1.00	3.20	6.40	ug/Kg
100-42-5	Styrene	3.20	U	0.90	3.20	6.40	ug/Kg
75-25-2	Bromoform	3.20	U	1.10	3.20	6.40	ug/Kg
98-82-8	Isopropylbenzene	3.20	U	0.99	3.20	6.40	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	3.20	U	1.50	3.20	6.40	ug/Kg
541-73-1	1,3-Dichlorobenzene	3.20	U	2.20	3.20	6.40	ug/Kg
106-46-7	1,4-Dichlorobenzene	3.20	U	2.00	3.20	6.40	ug/Kg
95-50-1	1,2-Dichlorobenzene	3.20	U	1.80	3.20	6.40	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.10	U	2.30	5.10	6.40	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.10	U	3.80	5.10	6.40	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.10	U	4.00	5.10	6.40	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	62.9		71 - 136		126%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	51.3		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.9		79 - 119		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	520000	7.707				
540-36-3	1,4-Difluorobenzene	1040000	8.609				
3114-55-4	Chlorobenzene-d5	905000	11.407				
3855-82-1	1,4-Dichlorobenzene-d4	339000	13.34				
TENTATIVE IDENTIFIED COMPOUNDS							

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	11M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-08	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	71.8
Sample Wt/Vol:	5.47 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
VY023070.D	1	08/13/25 15:19	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000581-42-0	Naphthalene, 2,6-dimethyl-	24.9	J			11.9	ug/Kg
000575-43-9	Naphthalene, 1,6-dimethyl-	100	J			12.6	ug/Kg
000575-37-1	Naphthalene, 1,7-dimethyl-	54.6	J			12.7	ug/Kg
000644-08-6	1,1-Biphenyl, 4-methyl-	14.8	J			14.1	ug/Kg
000090-12-0	Naphthalene, 1-methyl-	22.3	J			16.4	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\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Quant Time: Aug 14 01:25:12 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

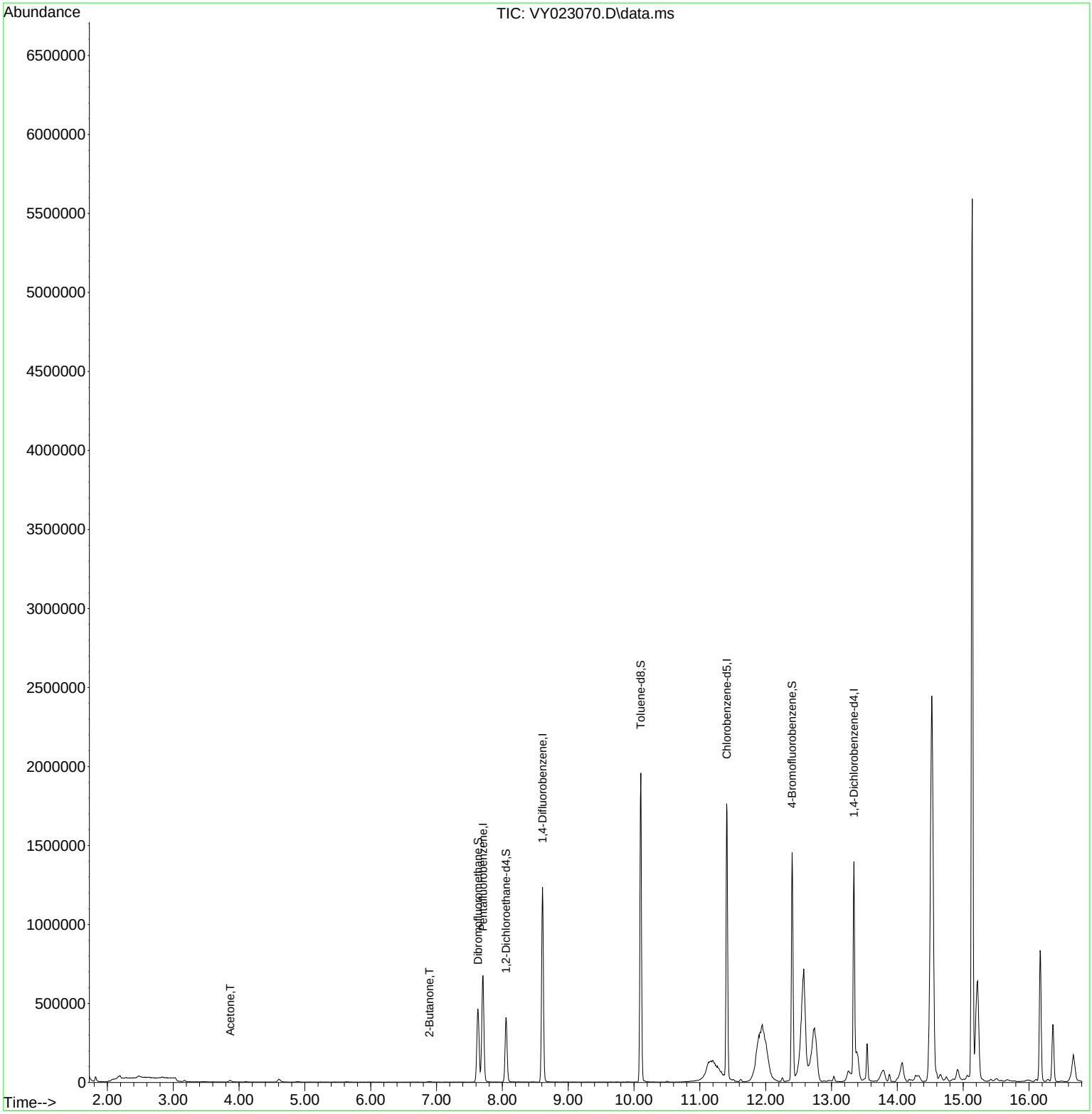
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	520297	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1036801	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.407	117	905464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	338962	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	311975	62.914	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 125.820%			
35) Dibromofluoromethane	7.628	113	332447	53.587	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.180%			
50) Toluene-d8	10.103	98	1243938	51.326	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.660%			
62) 4-Bromofluorobenzene	12.401	95	349682	44.864	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 89.720%			
Target Compounds						Qvalue
16) Acetone	3.866	43	17431	16.226	ug/l	97
25) 2-Butanone	6.890	43	5327	3.646	ug/l #	88

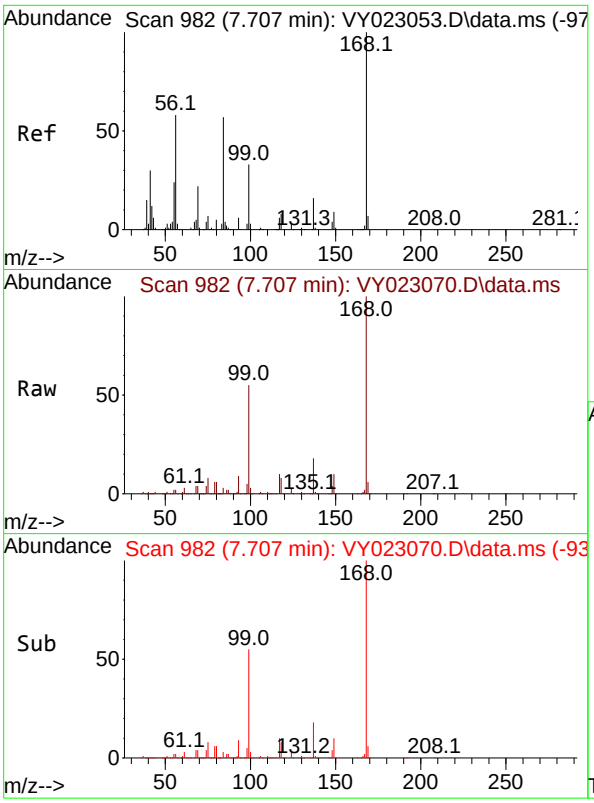
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Quant Time: Aug 14 01:25:12 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



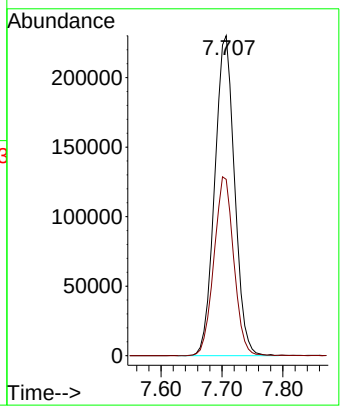


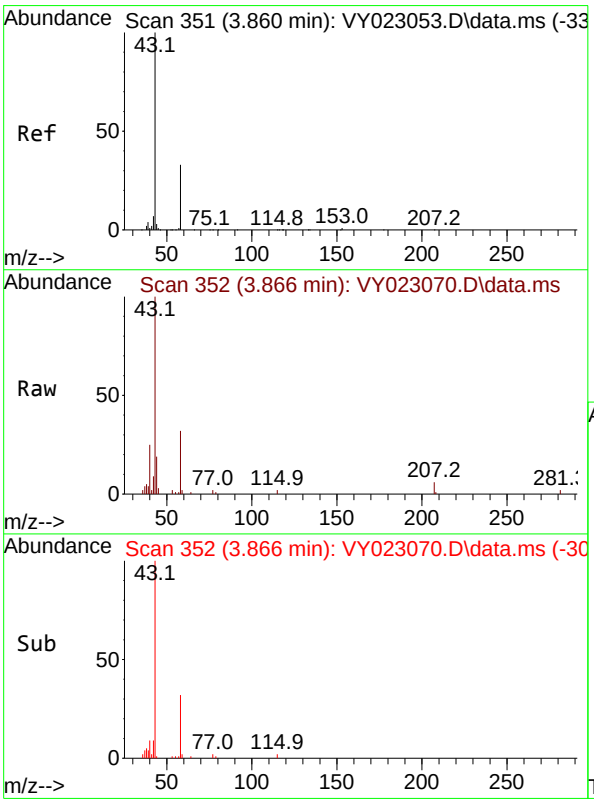
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Tgt Ion:168 Resp: 520297

Ion	Ratio	Lower	Upper
168	100		
99	55.1	42.8	64.2

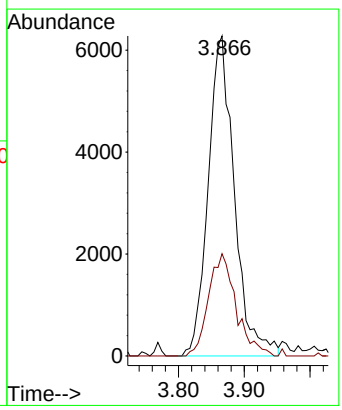


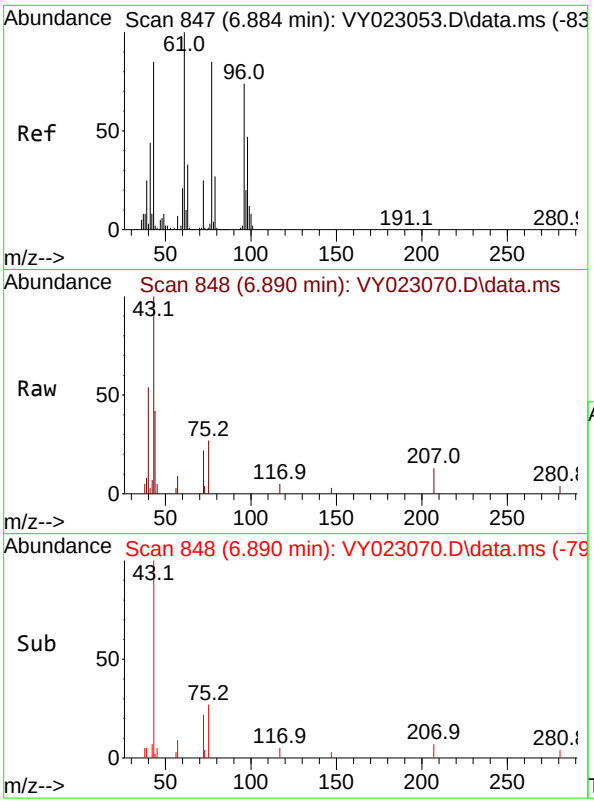


#16
Acetone
Concen: 16.226 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 43 Resp: 17431

Ion	Ratio	Lower	Upper
43	100		
58	32.0	27.1	40.7



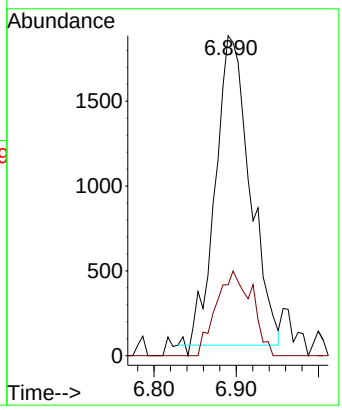


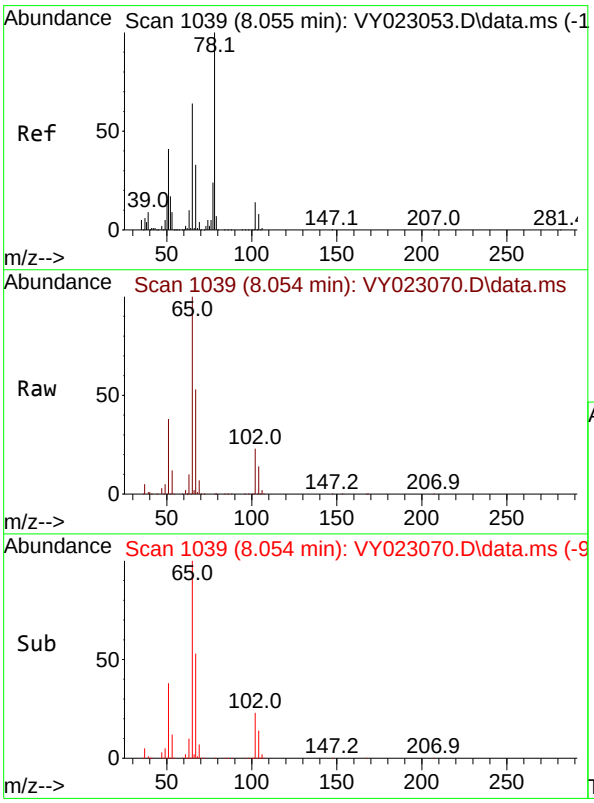
#25
2-Butanone
Concen: 3.646 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Tgt Ion: 43 Resp: 5327

Ion	Ratio	Lower	Upper
43	100		
72	22.9	23.5	35.3#

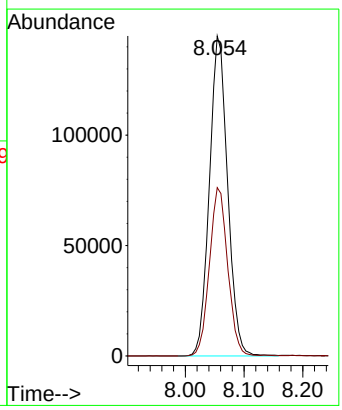


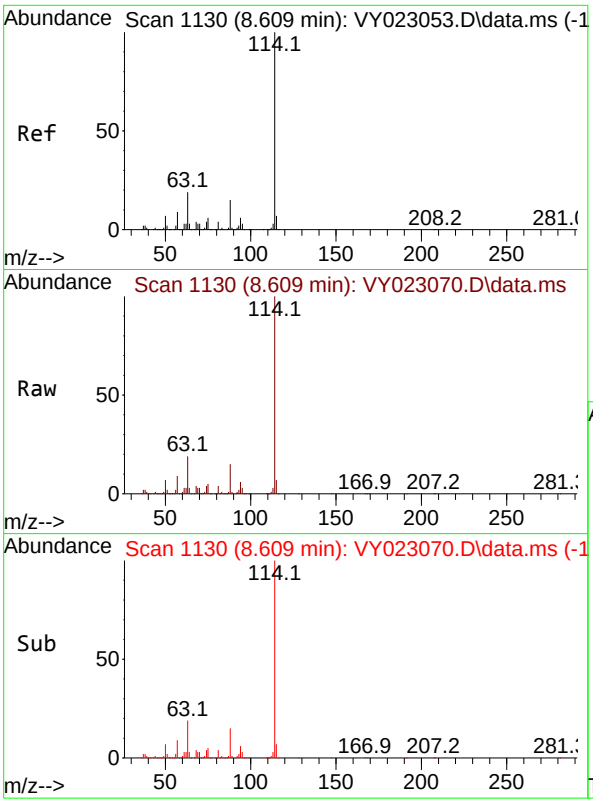


#33
1,2-Dichloroethane-d4
Concen: 62.914 ug/l
RT: 8.054 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 65 Resp: 311975

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.8



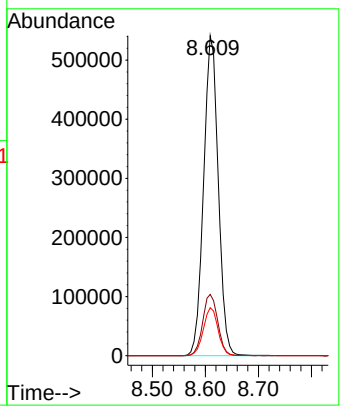


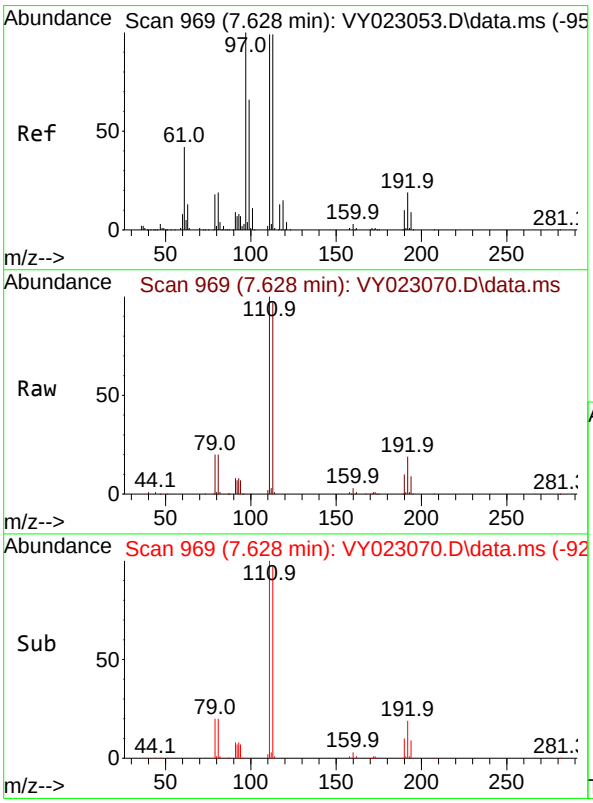
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Tgt Ion:114 Resp: 1036801

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.4
88	15.0	0.0	30.0

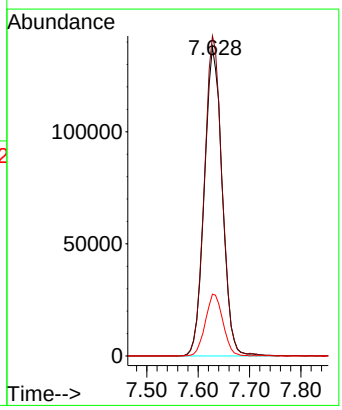


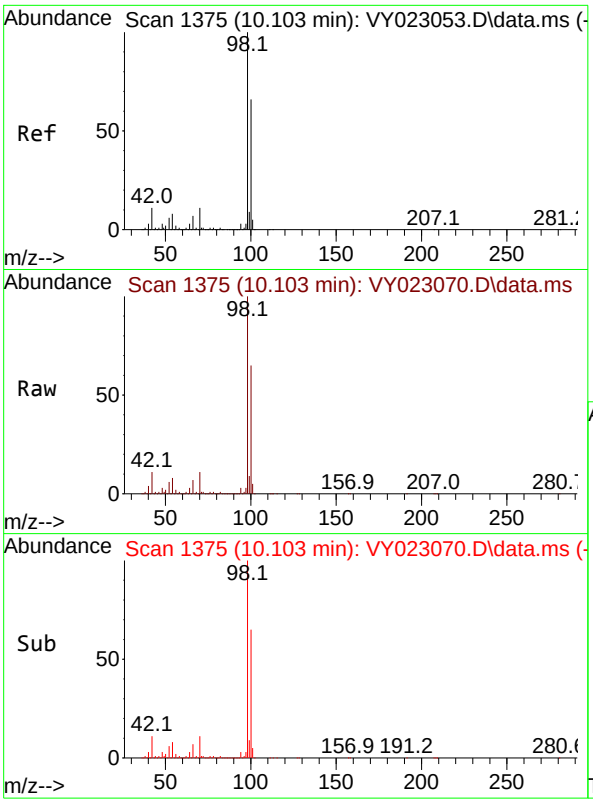


#35
Dibromofluoromethane
Concen: 53.587 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion:113 Resp: 332447

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.1	121.7
192	19.8	16.2	24.4



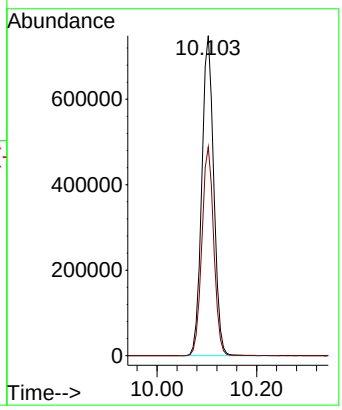


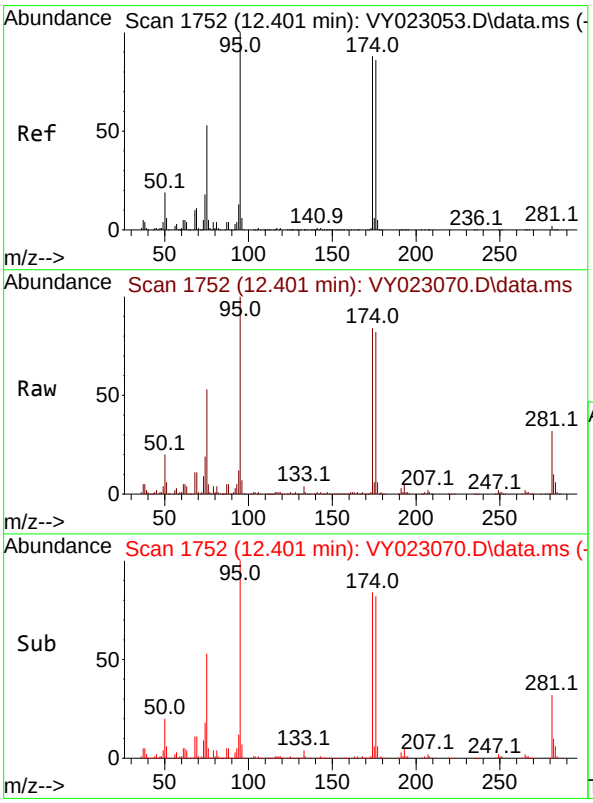
#50
Toluene-d8
Concen: 51.326 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Tgt Ion: 98 Resp: 1243938

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5

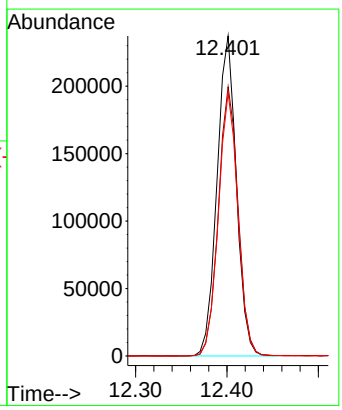


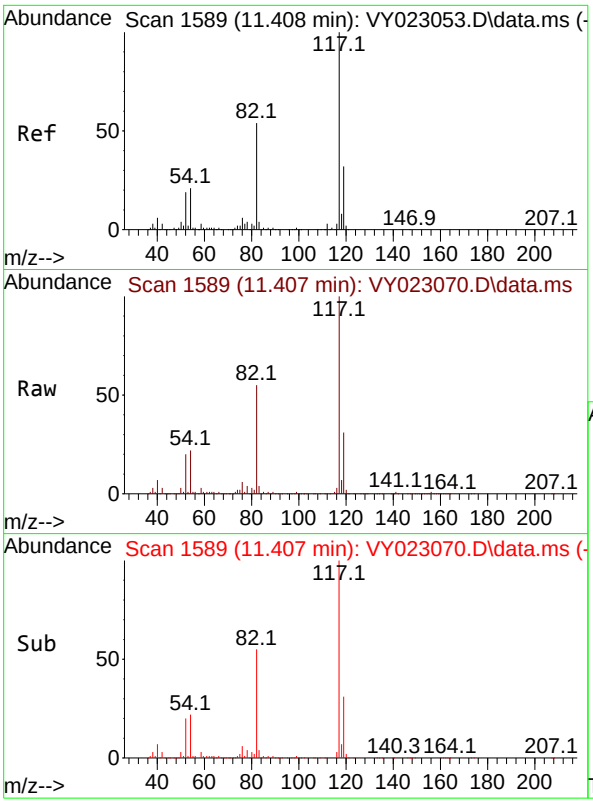


#62
4-Bromofluorobenzene
Concen: 44.864 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 95 Resp: 349682

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	171.6
176	82.9	0.0	167.6



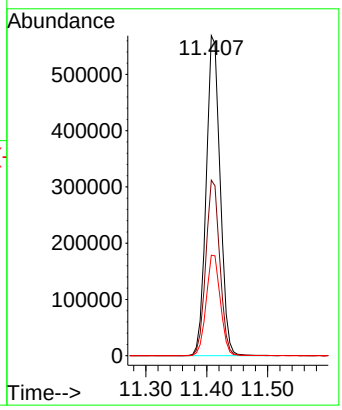


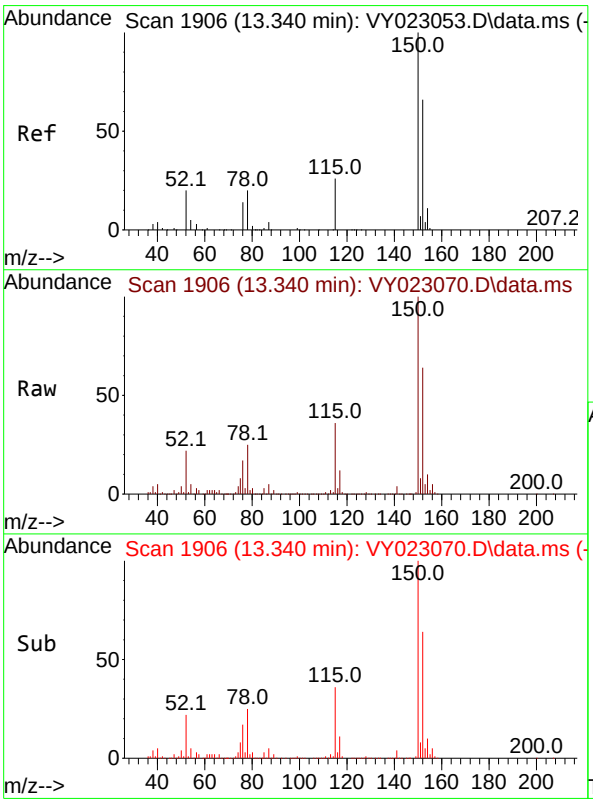
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Tgt Ion:117 Resp: 905464

Ion	Ratio	Lower	Upper
117	100		
82	54.8	43.4	65.0
119	31.4	25.6	38.4

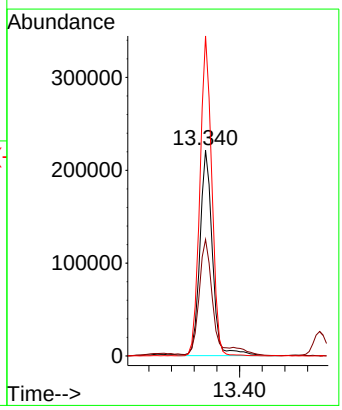




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion:152 Resp: 338962

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.2	84.6
150	147.7	0.0	348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-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: VY023070.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.628	959	969	975	rBV	463794	1107748	12.48%	2.371%
2	7.707	975	982	999	rVB	672845	1548090	17.44%	3.314%
3	8.054	1030	1039	1052	rBV	408662	886812	9.99%	1.898%
4	8.609	1121	1130	1144	rBV	1234044	2377643	26.78%	5.089%
5	10.103	1367	1375	1398	rBV	1955637	3286410	37.02%	7.034%
6	11.133	1524	1544	1545	rBV2	109929	367505	4.14%	0.787%
7	11.407	1583	1589	1601	rVB	1748271	2853332	32.14%	6.107%
8	11.895	1634	1669	1670	rBV2	294246	1116340	12.57%	2.389%
9	12.401	1738	1752	1760	rBV2	1447674	2597156	29.25%	5.559%
10	12.578	1760	1781	1792	rVV	711884	3401556	38.31%	7.281%
11	12.743	1796	1808	1826	rVB2	338343	1798113	20.25%	3.849%
12	13.255	1882	1892	1900	rBV6	63530	259219	2.92%	0.555%
13	13.340	1900	1906	1911	rBV	1342708	2094650	23.59%	4.483%
14	13.541	1933	1939	1949	rVB	236205	380661	4.29%	0.815%
15	13.791	1963	1980	1990	rBV3	70761	329864	3.72%	0.706%
16	14.078	2007	2027	2039	rBV2	120343	487779	5.49%	1.044%
17	14.523	2080	2100	2116	rBV	2439773	7729947	87.07%	16.545%
18	14.651	2116	2121	2130	rVV3	42707	132840	1.50%	0.284%
19	14.913	2157	2164	2176	rVB2	65686	187666	2.11%	0.402%
20	15.138	2193	2201	2206	rVV	5572980	8878240	100.00%	19.003%
21	15.218	2206	2214	2226	rVB2	619333	1989573	22.41%	4.258%
22	16.169	2363	2370	2382	rVB	829339	1564655	17.62%	3.349%
23	16.364	2394	2402	2413	rVB	361987	733271	8.26%	1.569%
24	16.675	2436	2453	2468	rBV3	169286	611277	6.89%	1.308%

Sum of corrected areas: 46720347

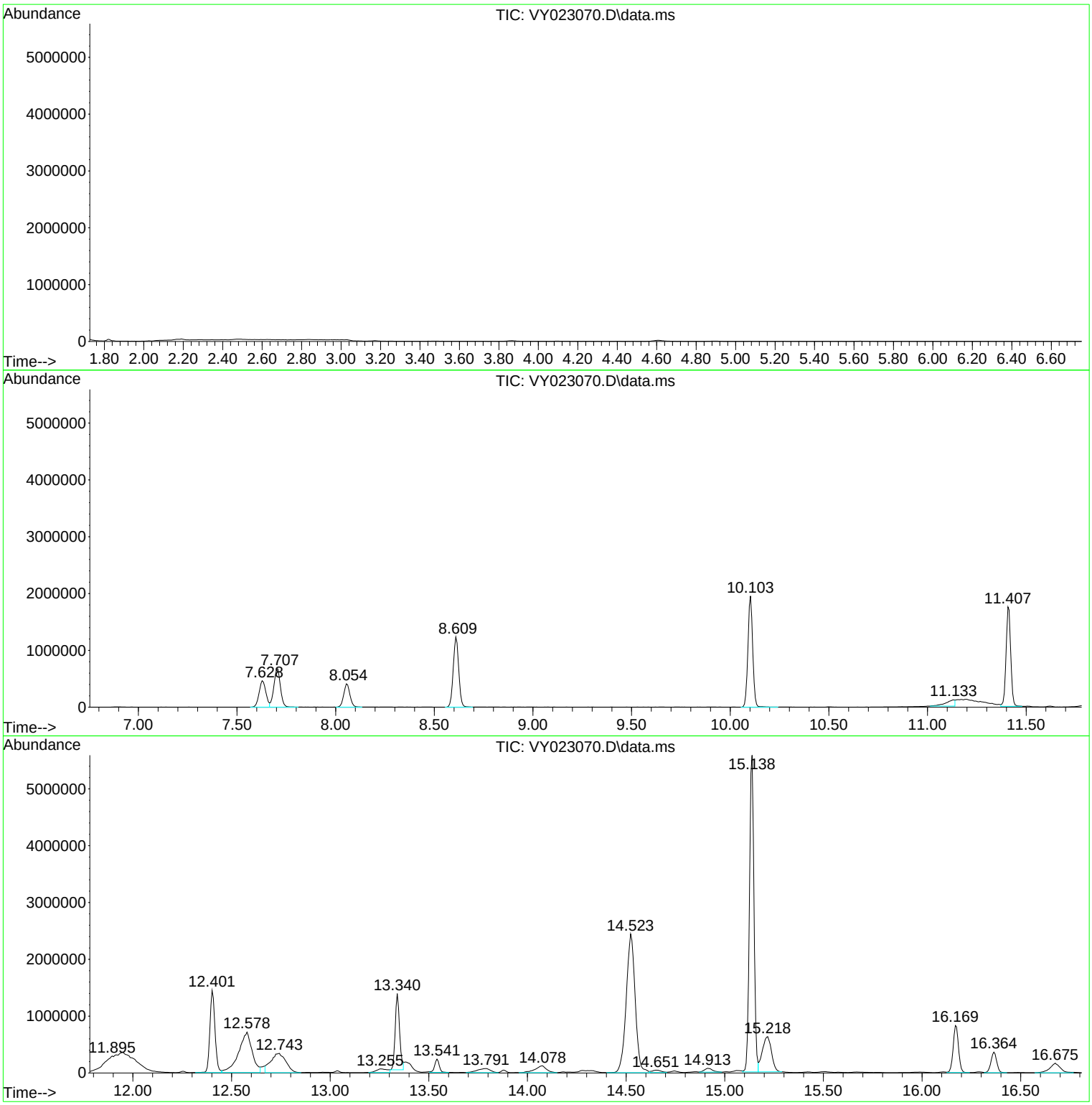
Sample Results: **VY023070.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-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



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On    : 13 Aug 2025  15:19
Operator  : SY/MD
Sample    : Q2819-08
Misc      : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 13   Sample Multiplier: 1

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
```

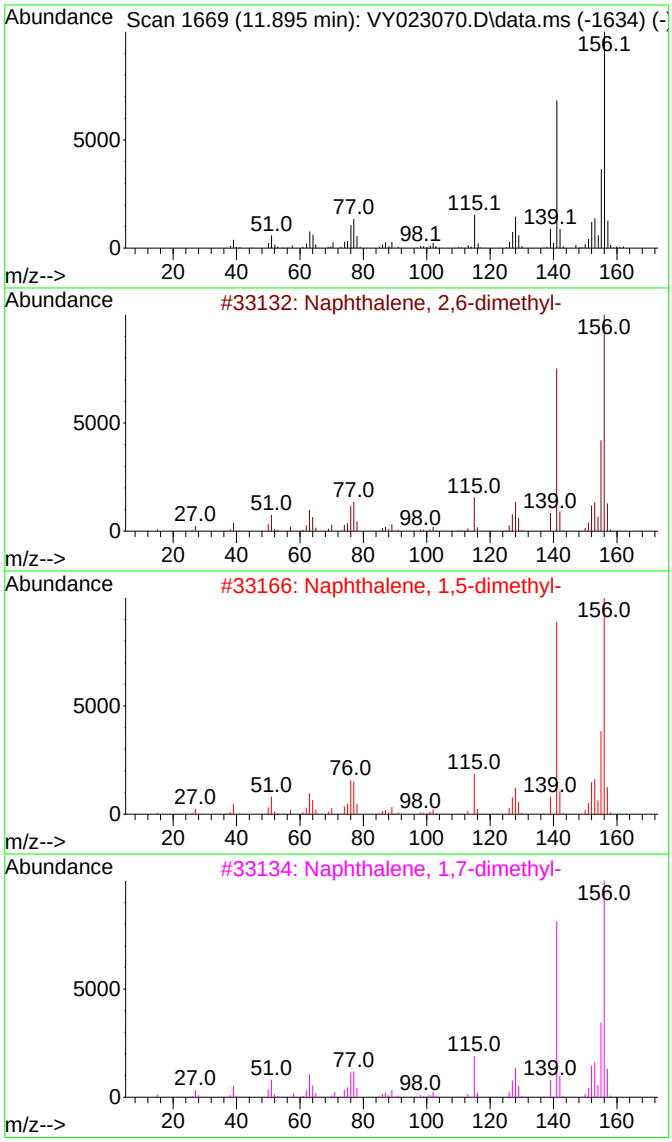
Instrument :
MSVOA_Y
ClientSampleId :
11M-E

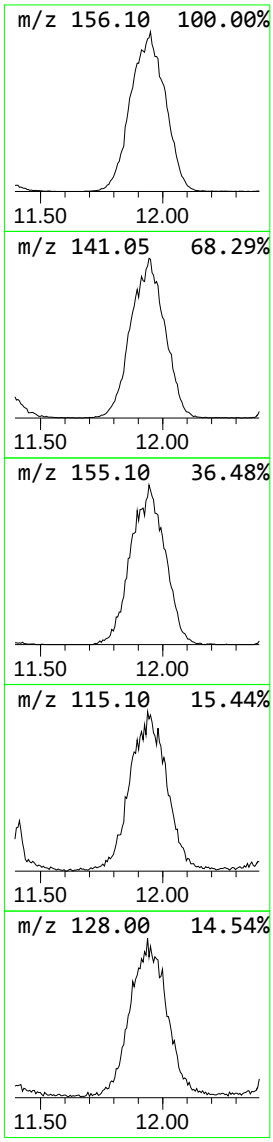
****

Peak Number 1 Naphthalene, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.895	19.56 ug/l	1116340	Chlorobenzene-d5	11.407

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	98
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

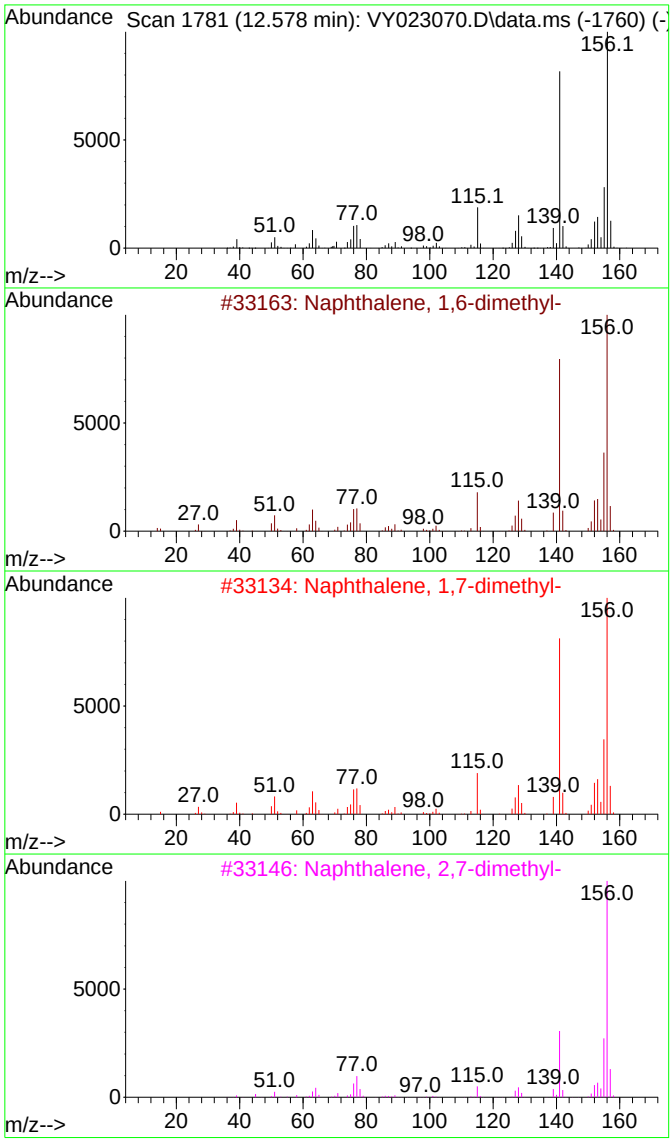
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

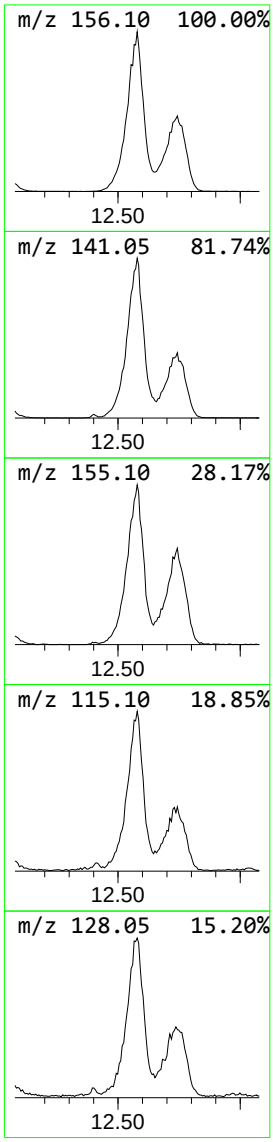
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.578	81.20 ug/l	3401560	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

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

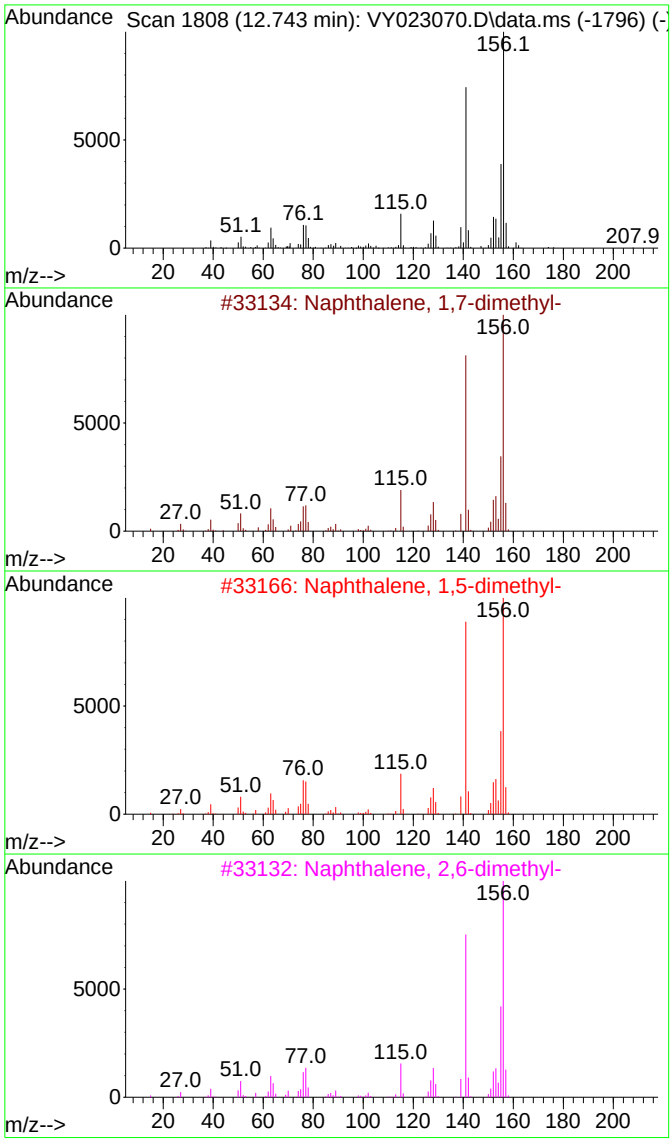
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

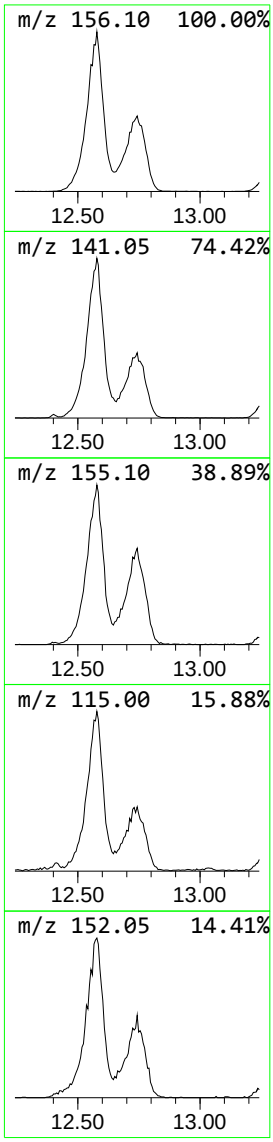
****

Peak Number 3 Naphthalene, 1,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.743	42.92 ug/l	1798110	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	98
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

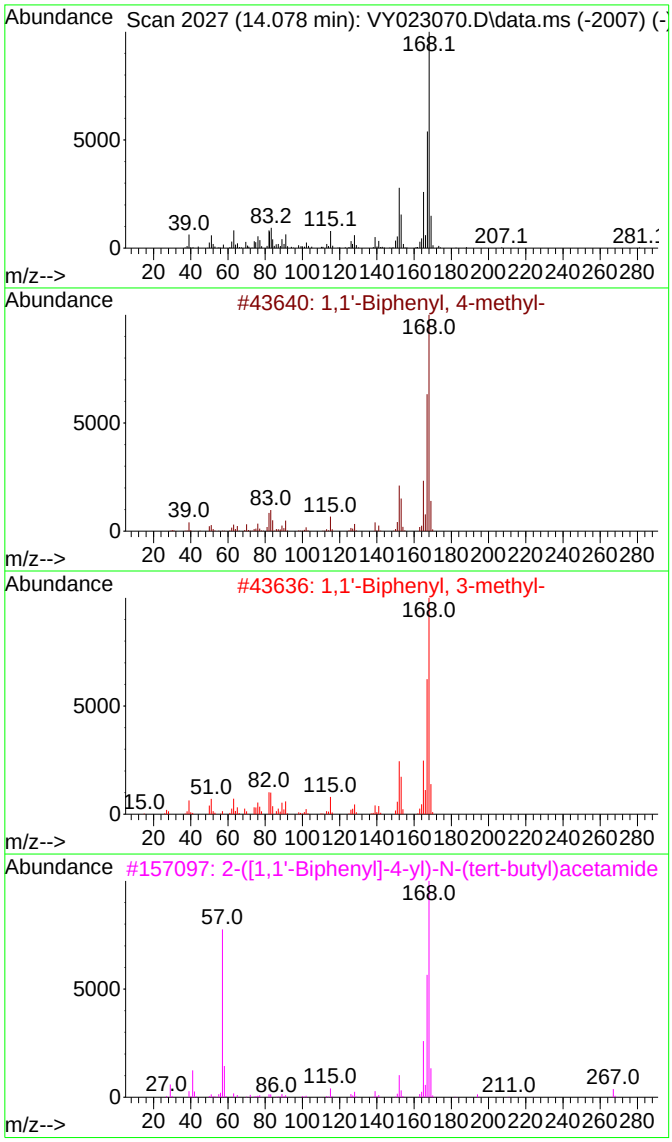
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

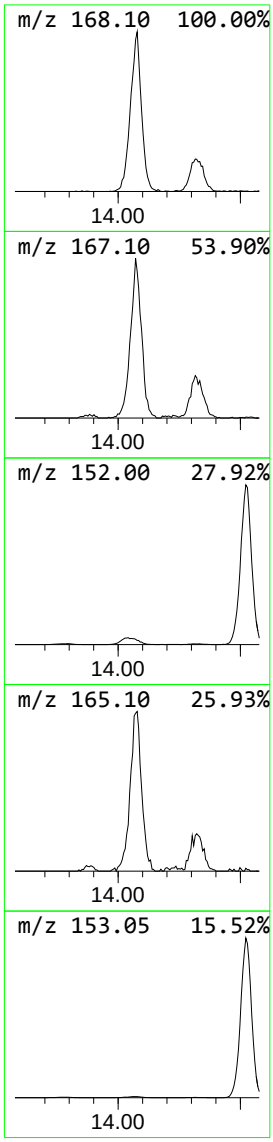
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 1,1'-Biphenyl, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.078	11.64 ug/l	487779	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	94
2	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	91
3	2-([1,1'-Biphenyl]-4-yl)-N-(tert...	267	C18H21NO	1001477-17-3	72
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	64
5	2,4-Dimethoxy-5-pyrimidine carbo...	168	C7H8N2O3	052606-02-7	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

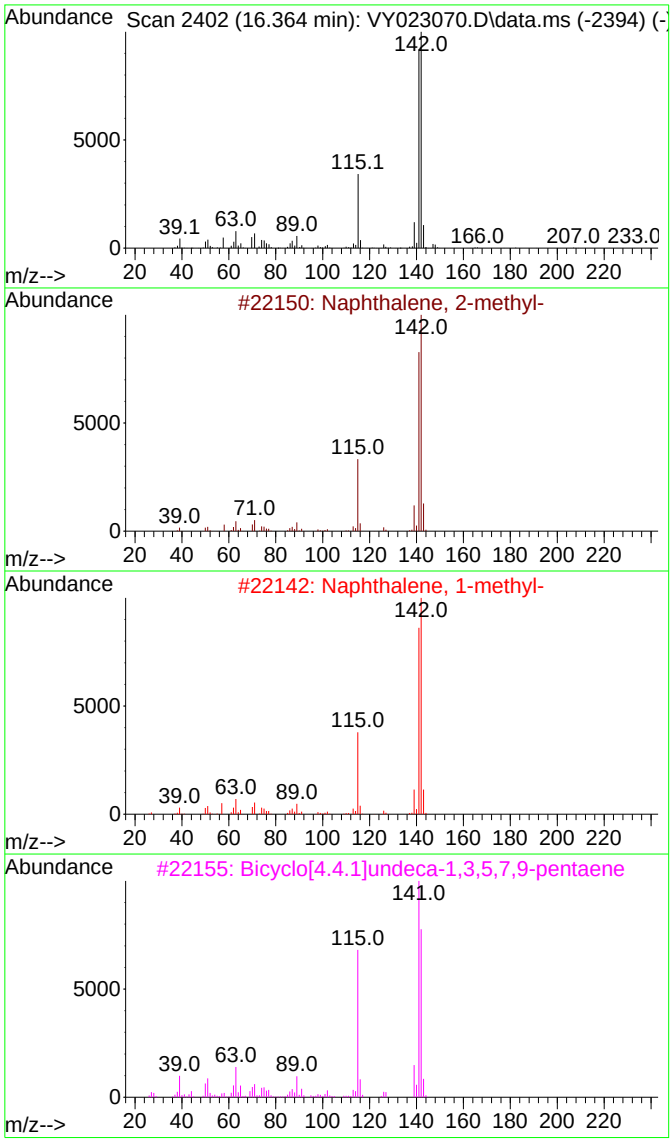
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

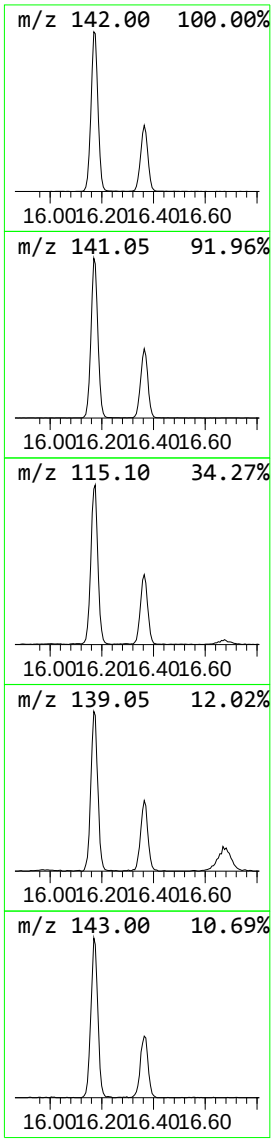
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.364	17.50 ug/l	733271	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-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
Naphthalene, 2,...	11.895	19.6	ug/l	1116340	3	11.407	2853330	50.0
Naphthalene, 1,...	12.578	81.2	ug/l	3401560	4	13.340	2094650	50.0
Naphthalene, 1,...	12.743	42.9	ug/l	1798110	4	13.340	2094650	50.0
1,1'-Biphenyl, ...	14.078	11.6	ug/l	487779	4	13.340	2094650	50.0
Naphthalene, 1-...	16.364	17.5	ug/l	733271	4	13.340	2094650	50.0

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	37.6
Sample Wt/Vol:	4.41 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
VY023071.D	1	08/13/25 15:43	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	12.1	U	3.40	12.1	15.1	ug/Kg
74-87-3	Chloromethane	7.50	U	3.40	7.50	15.1	ug/Kg
75-01-4	Vinyl Chloride	7.50	U	2.40	7.50	15.1	ug/Kg
74-83-9	Bromomethane	12.1	U	3.20	12.1	15.1	ug/Kg
75-00-3	Chloroethane	7.50	U	3.80	7.50	15.1	ug/Kg
75-69-4	Trichlorofluoromethane	12.1	U	3.60	12.1	15.1	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	7.50	U	3.20	7.50	15.1	ug/Kg
75-35-4	1,1-Dichloroethene	7.50	U	3.00	7.50	15.1	ug/Kg
67-64-1	Acetone	60.3	U	14.3	60.3	75.4	ug/Kg
75-15-0	Carbon Disulfide	3.20	J	3.20	12.1	15.1	ug/Kg
1634-04-4	Methyl tert-butyl Ether	7.50	U	2.20	7.50	15.1	ug/Kg
79-20-9	Methyl Acetate	12.1	U	4.60	12.1	15.1	ug/Kg
75-09-2	Methylene Chloride	24.1	U	10.6	24.1	30.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	7.50	U	2.60	7.50	15.1	ug/Kg
75-34-3	1,1-Dichloroethane	7.50	U	2.40	7.50	15.1	ug/Kg
110-82-7	Cyclohexane	7.50	U	2.40	7.50	15.1	ug/Kg
78-93-3	2-Butanone	60.3	U	19.7	60.3	75.4	ug/Kg
56-23-5	Carbon Tetrachloride	7.50	U	2.90	7.50	15.1	ug/Kg
156-59-2	cis-1,2-Dichloroethene	7.50	U	2.30	7.50	15.1	ug/Kg
74-97-5	Bromochloromethane	12.1	U	3.50	12.1	15.1	ug/Kg
67-66-3	Chloroform	12.1	U	2.50	12.1	15.1	ug/Kg
71-55-6	1,1,1-Trichloroethane	7.50	U	2.80	7.50	15.1	ug/Kg
108-87-2	Methylcyclohexane	7.50	U	2.70	7.50	15.1	ug/Kg
71-43-2	Benzene	7.50	U	2.40	7.50	15.1	ug/Kg
107-06-2	1,2-Dichloroethane	7.50	U	2.40	7.50	15.1	ug/Kg
79-01-6	Trichloroethene	7.50	U	2.40	7.50	15.1	ug/Kg
78-87-5	1,2-Dichloropropane	7.50	U	2.70	7.50	15.1	ug/Kg
75-27-4	Bromodichloromethane	7.50	U	2.40	7.50	15.1	ug/Kg
108-10-1	4-Methyl-2-Pentanone	37.7	U	10.8	37.7	75.4	ug/Kg
108-88-3	Toluene	7.50	U	2.40	7.50	15.1	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	37.6
Sample Wt/Vol:	4.41 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
VY023071.D	1	08/13/25 15:43	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	7.50	U	2.00	7.50	15.1	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	7.50	U	1.90	7.50	15.1	ug/Kg
79-00-5	1,1,2-Trichloroethane	7.50	U	2.80	7.50	15.1	ug/Kg
591-78-6	2-Hexanone	37.7	U	11.1	37.7	75.4	ug/Kg
124-48-1	Dibromochloromethane	7.50	U	2.60	7.50	15.1	ug/Kg
106-93-4	1,2-Dibromoethane	7.50	U	2.70	7.50	15.1	ug/Kg
127-18-4	Tetrachloroethene	7.50	U	3.20	7.50	15.1	ug/Kg
108-90-7	Chlorobenzene	7.50	U	2.70	7.50	15.1	ug/Kg
100-41-4	Ethyl Benzene	7.50	U	2.00	7.50	15.1	ug/Kg
179601-23-1	m/p-Xylenes	15.1	U	3.70	15.1	30.2	ug/Kg
95-47-6	o-Xylene	7.50	U	2.50	7.50	15.1	ug/Kg
100-42-5	Styrene	7.50	U	2.10	7.50	15.1	ug/Kg
75-25-2	Bromoform	7.50	U	2.60	7.50	15.1	ug/Kg
98-82-8	Isopropylbenzene	7.50	U	2.40	7.50	15.1	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	7.50	U	3.60	7.50	15.1	ug/Kg
541-73-1	1,3-Dichlorobenzene	7.50	U	5.20	7.50	15.1	ug/Kg
106-46-7	1,4-Dichlorobenzene	7.50	U	4.70	7.50	15.1	ug/Kg
95-50-1	1,2-Dichlorobenzene	7.50	U	4.40	7.50	15.1	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	12.1	U	5.50	12.1	15.1	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	12.1	U	9.00	12.1	15.1	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	12.1	U	9.60	12.1	15.1	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	66.0		71 - 136		132%	SPK: 50
1868-53-7	Dibromofluoromethane	54.2		78 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	51.6		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.8		79 - 119		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	542000	7.707				
540-36-3	1,4-Difluorobenzene	1070000	8.61				
3114-55-4	Chlorobenzene-d5	903000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	305000	13.34				
TENTATIVE IDENTIFIED COMPOUNDS							

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-09	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	37.6
Sample Wt/Vol:	4.41 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
VY023071.D	1	08/13/25 15:43	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000090-12-0	Naphthalene, 1-methyl-	17.9	J			16.4	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\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

Quant Time: Aug 14 01:25:34 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

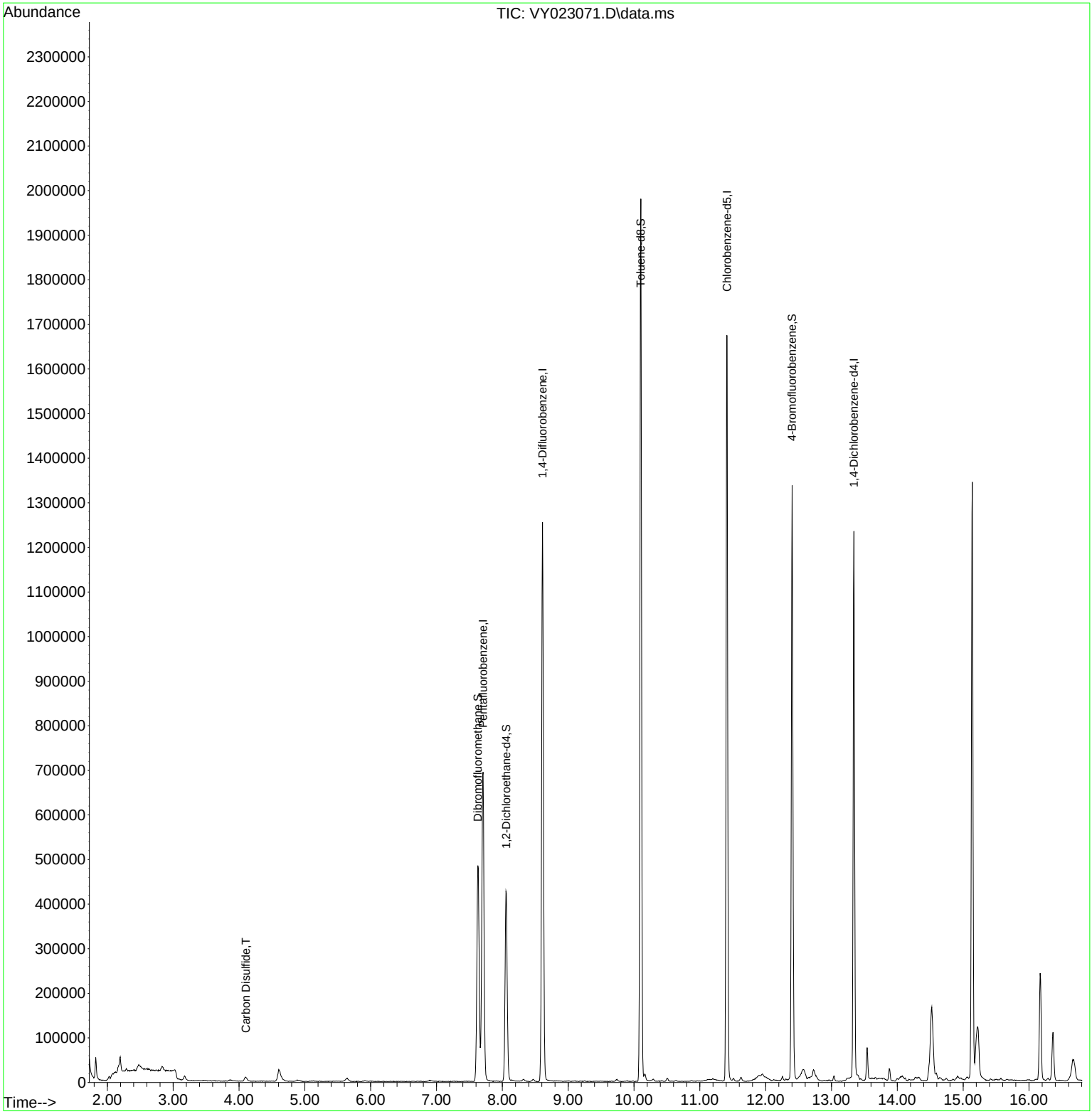
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	542397	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	1071198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	903366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	305266	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	341117	65.988	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 131.980%			
35) Dibromofluoromethane	7.628	113	347401	54.199	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.400%			
50) Toluene-d8	10.103	98	1291121	51.562	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.120%			
62) 4-Bromofluorobenzene	12.402	95	353063	43.843	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 87.680%			
Target Compounds						Qvalue
17) Carbon Disulfide	4.104	76	18132	1.064	ug/l	98

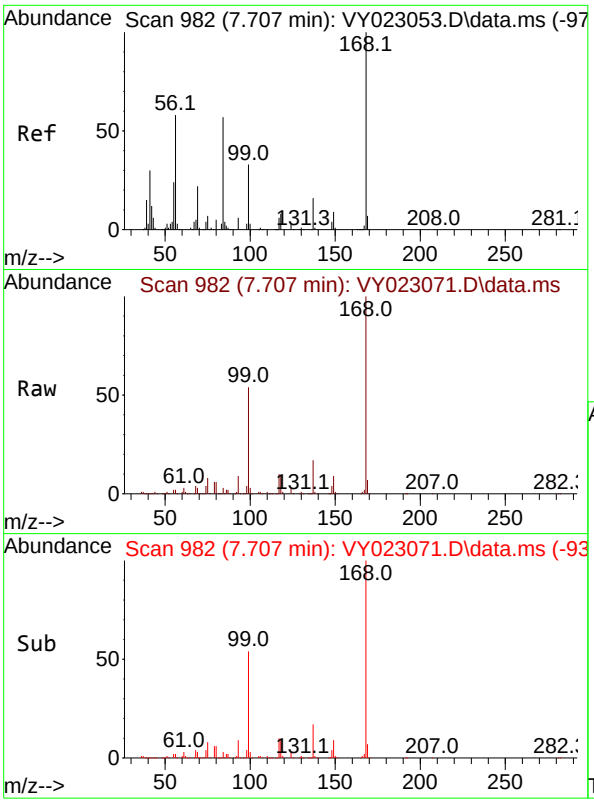
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

Quant Time: Aug 14 01:25:34 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



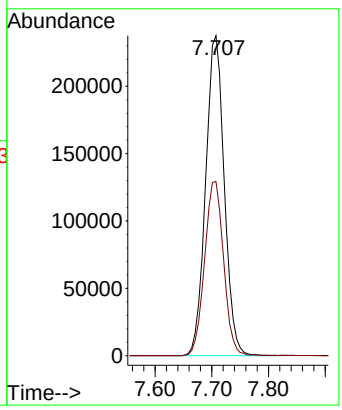


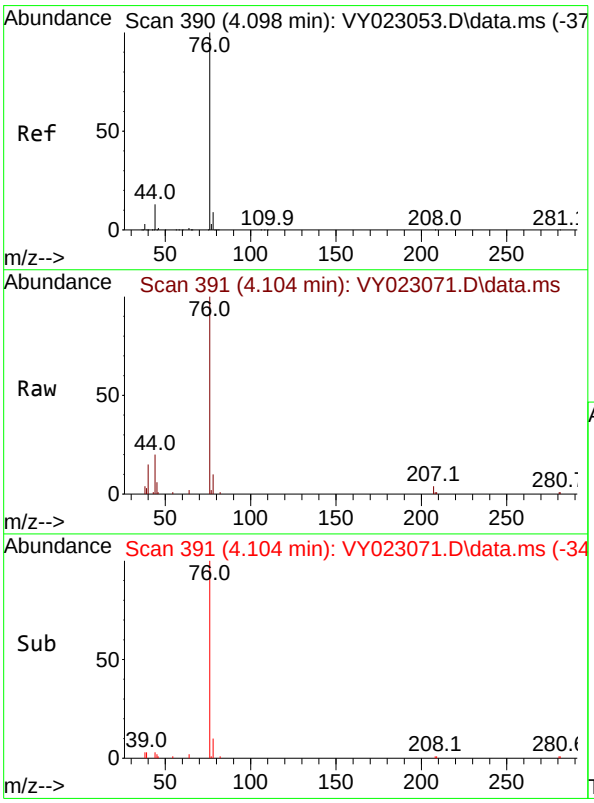
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

Tgt Ion:168 Resp: 542397

Ion	Ratio	Lower	Upper
168	100		
99	54.4	42.8	64.2

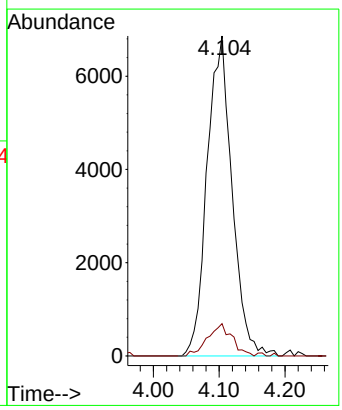


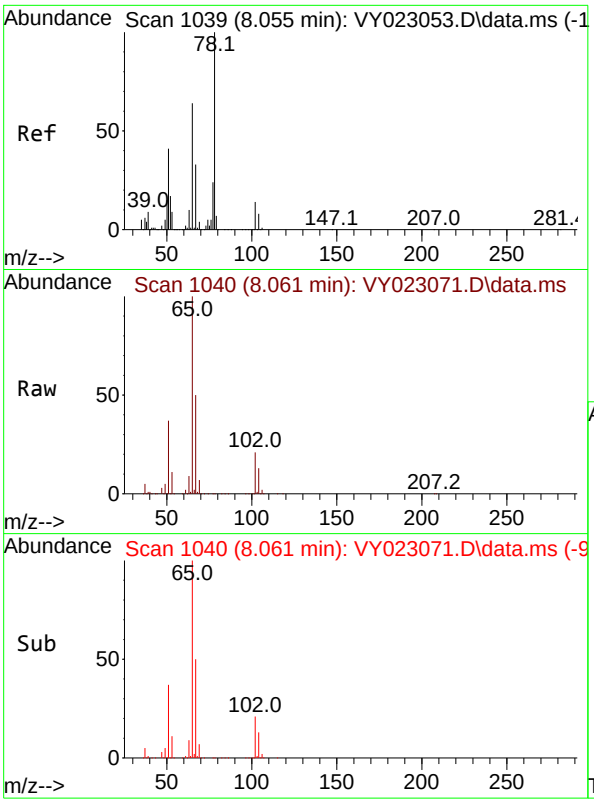


#17
Carbon Disulfide
Concen: 1.064 ug/l
RT: 4.104 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion: 76 Resp: 18132

Ion	Ratio	Lower	Upper
76	100		
78	10.1	7.4	11.2



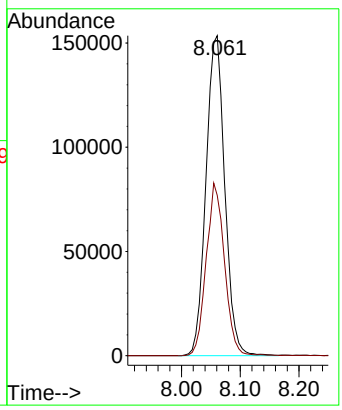


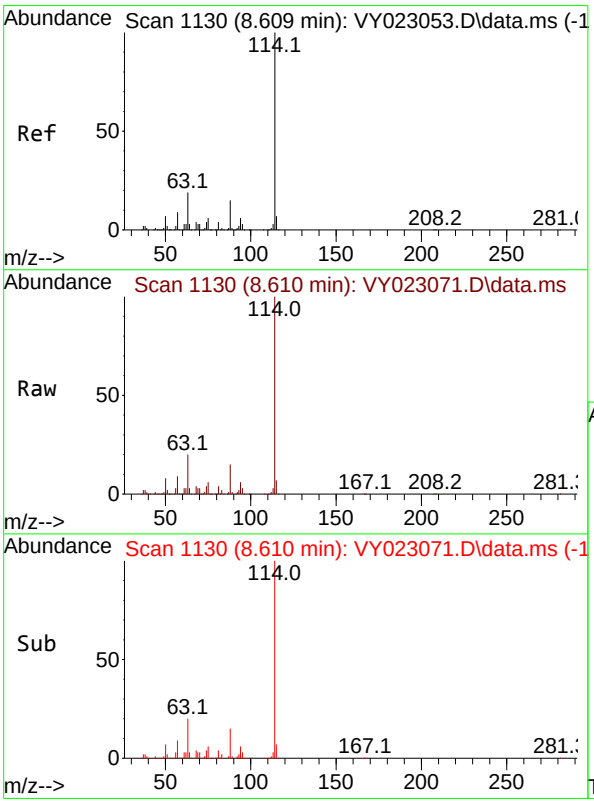
#33
1,2-Dichloroethane-d4
Concen: 65.988 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

Tgt Ion: 65 Resp: 341117

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.8

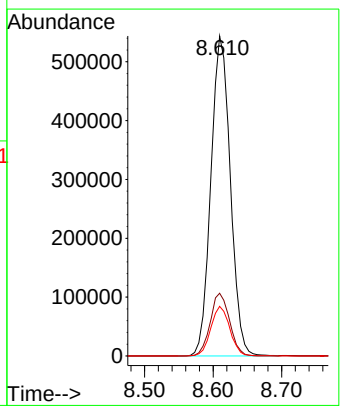


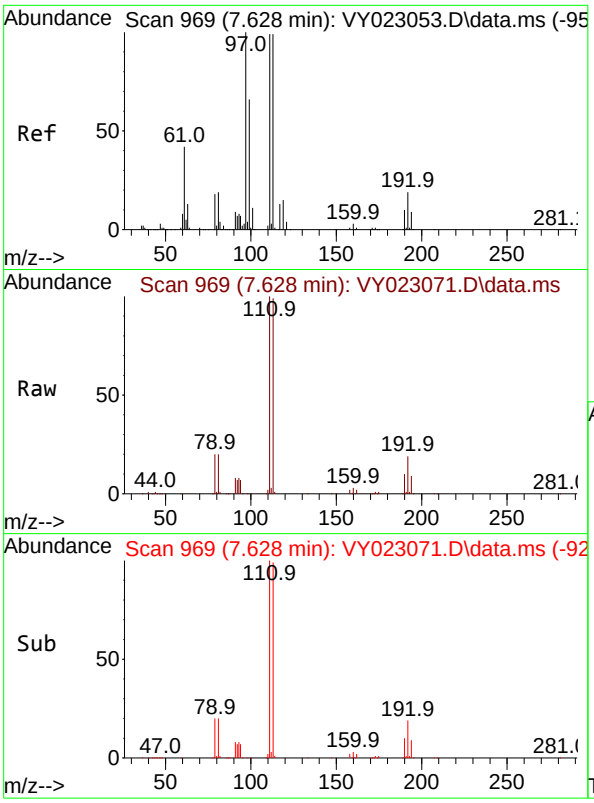


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion:114 Resp: 1071198

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.4
88	15.5	0.0	30.0



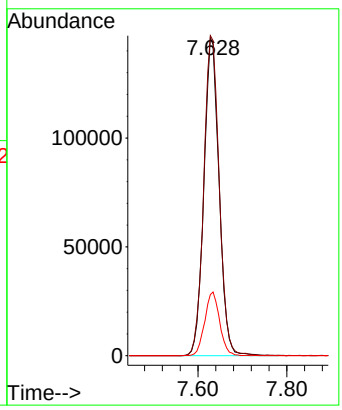


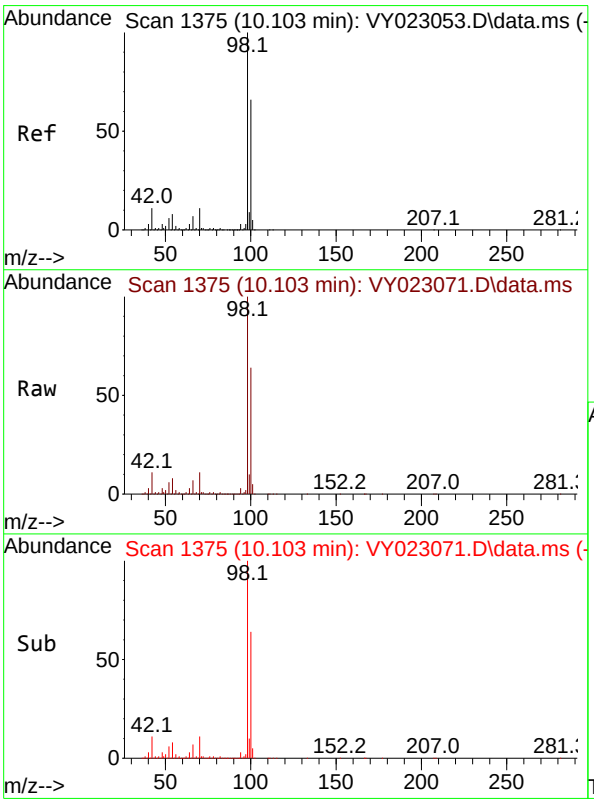
#35
Dibromofluoromethane
Concen: 54.199 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

Tgt Ion:113 Resp: 347401

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.1	121.7
192	19.6	16.2	24.4

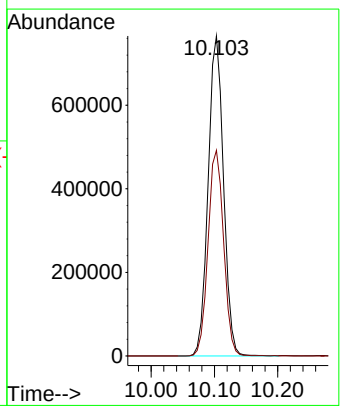


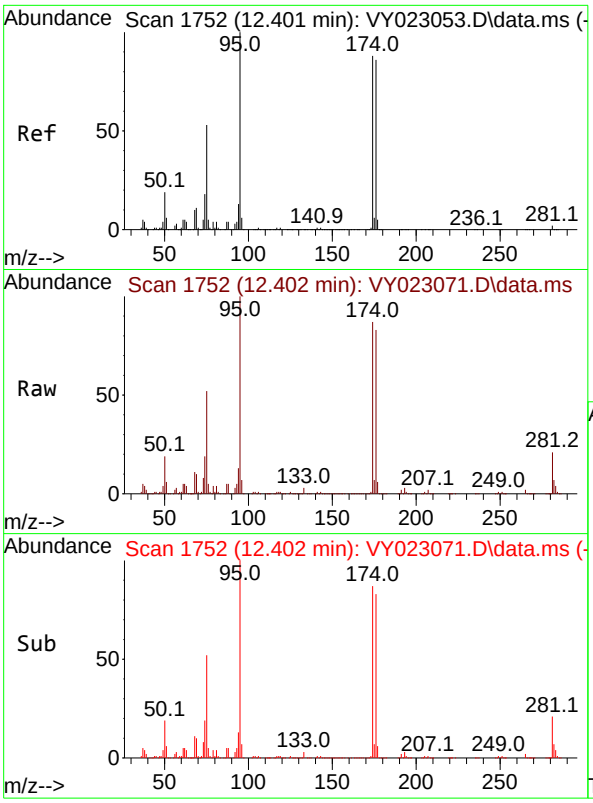


#50
Toluene-d8
Concen: 51.562 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion: 98 Resp: 1291121

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5



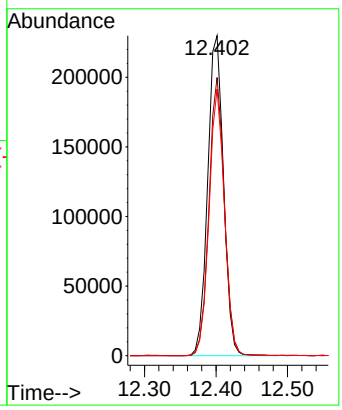


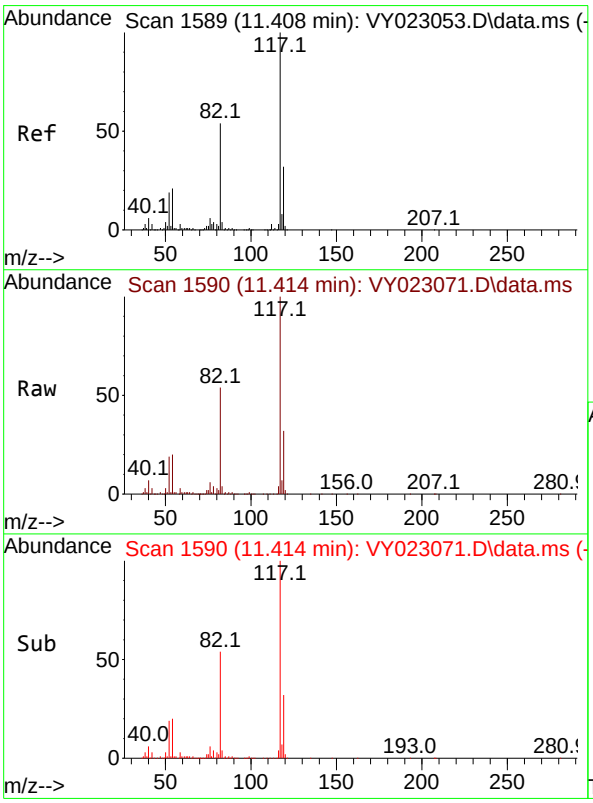
#62
4-Bromofluorobenzene
Concen: 43.843 ug/l
RT: 12.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

Tgt Ion: 95 Resp: 353063

Ion	Ratio	Lower	Upper
95	100		
174	84.9	0.0	171.6
176	81.1	0.0	167.6

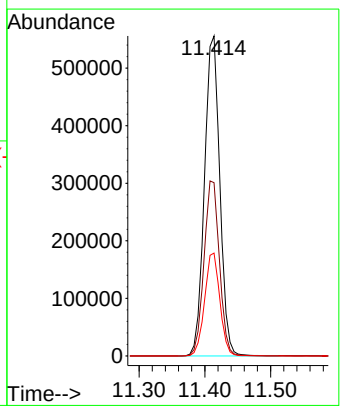


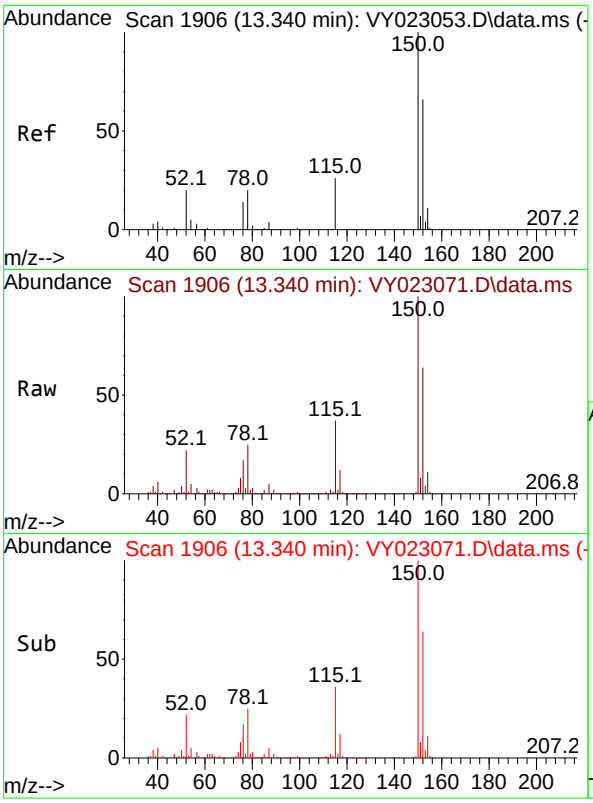


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion:117 Resp: 903366

Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.4	65.0
119	32.2	25.6	38.4



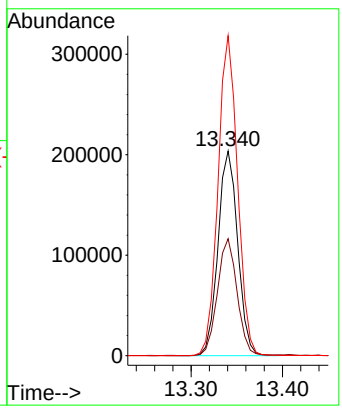


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

Tgt Ion:152 Resp: 305266

Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.2	84.6
150	155.3	0.0	348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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: VY023071.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.824	12	17	26	rVB2	50594	76875	2.28%	0.364%
2	2.196	68	78	84	rBV2	35256	78958	2.34%	0.374%
3	2.477	117	124	137	rBV10	13481	55079	1.63%	0.261%
4	4.604	461	473	497	rVB5	26742	98016	2.90%	0.465%
5	7.628	959	969	975	rBV	484100	1153042	34.14%	5.465%
6	7.707	975	982	997	rVB	692352	1604631	47.51%	7.606%
7	8.055	1028	1039	1051	rBV	426252	965872	28.60%	4.578%
8	8.610	1121	1130	1145	rBV	1254317	2460067	72.84%	11.661%
9	10.103	1366	1375	1382	rBV	1979217	3377322	100.00%	16.009%
10	11.408	1582	1589	1602	rBV	1671765	2771806	82.07%	13.138%
11	12.402	1742	1752	1764	rBV2	1333007	2278710	67.47%	10.801%
12	12.578	1764	1781	1789	rVV6	21827	101746	3.01%	0.482%
13	12.725	1796	1805	1823	rVB10	24909	98643	2.92%	0.468%
14	13.340	1895	1906	1914	rBV	1226870	1861769	55.13%	8.825%
15	13.542	1932	1939	1944	rBV	73820	118339	3.50%	0.561%
16	13.877	1988	1994	2001	rVB	27053	45110	1.34%	0.214%
17	14.523	2087	2100	2109	rBV	164833	531580	15.74%	2.520%
18	15.139	2192	2201	2207	rBV	1337953	2220135	65.74%	10.523%
19	15.218	2207	2214	2234	rVB2	119731	427249	12.65%	2.025%
20	16.169	2363	2370	2380	rVB	238984	454192	13.45%	2.153%
21	16.364	2394	2402	2411	rVB	108263	220764	6.54%	1.046%
22	16.663	2436	2451	2452	rBV	46823	97127	2.88%	0.460%

Sum of corrected areas: 21097032

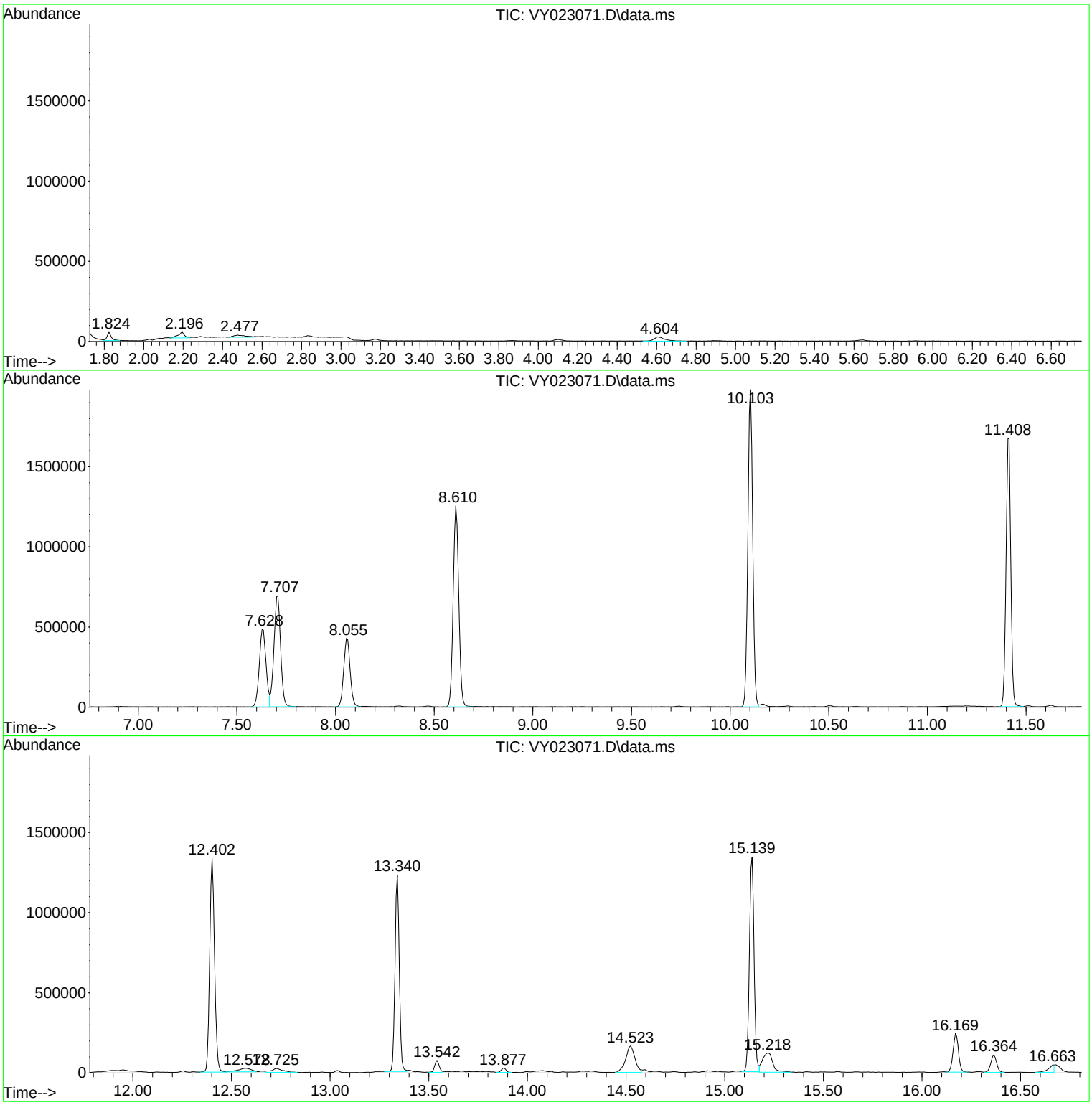
Sample Results: **VY023071.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-E

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

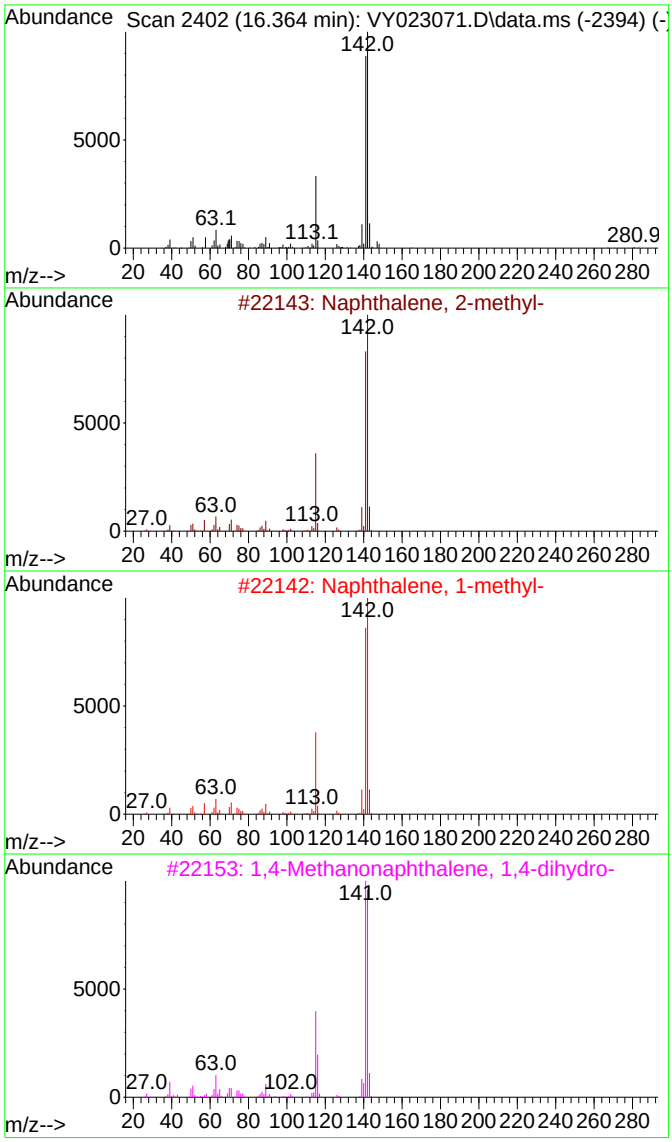
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

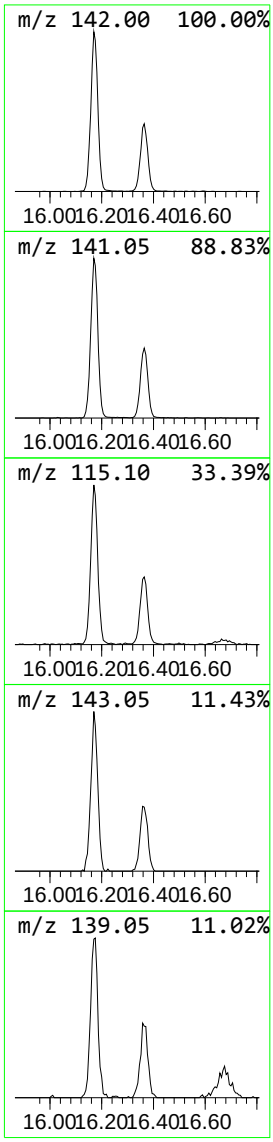
****

Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.364	5.93 ug/l	220764	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	97
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	97
3	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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
Naphthalene, 1-...	16.364	5.9	ug/l	220764	4	13.340	1861770	50.0

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.52 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
VY023072.D	1	08/13/25 16:06	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.90	U	1.10	3.90	4.90	ug/Kg
74-87-3	Chloromethane	2.50	U	1.10	2.50	4.90	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.78	2.50	4.90	ug/Kg
74-83-9	Bromomethane	3.90	U	1.10	3.90	4.90	ug/Kg
75-00-3	Chloroethane	2.50	U	1.20	2.50	4.90	ug/Kg
75-69-4	Trichlorofluoromethane	3.90	U	1.20	3.90	4.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.00	2.50	4.90	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	0.98	2.50	4.90	ug/Kg
67-64-1	Acetone	19.6	U	4.70	19.6	24.5	ug/Kg
75-15-0	Carbon Disulfide	3.90	U	1.00	3.90	4.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.72	2.50	4.90	ug/Kg
79-20-9	Methyl Acetate	3.90	U	1.50	3.90	4.90	ug/Kg
75-09-2	Methylene Chloride	7.90	U	3.50	7.90	9.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.84	2.50	4.90	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.79	2.50	4.90	ug/Kg
110-82-7	Cyclohexane	2.50	U	0.78	2.50	4.90	ug/Kg
78-93-3	2-Butanone	19.6	U	6.40	19.6	24.5	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.95	2.50	4.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.74	2.50	4.90	ug/Kg
74-97-5	Bromochloromethane	3.90	U	1.10	3.90	4.90	ug/Kg
67-66-3	Chloroform	3.90	U	0.82	3.90	4.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.91	2.50	4.90	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.89	2.50	4.90	ug/Kg
71-43-2	Benzene	2.50	U	0.78	2.50	4.90	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.78	2.50	4.90	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.79	2.50	4.90	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.89	2.50	4.90	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.77	2.50	4.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.3	U	3.50	12.3	24.5	ug/Kg
108-88-3	Toluene	2.50	U	0.77	2.50	4.90	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.52 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
VY023072.D	1	08/13/25 16:06	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.64	2.50	4.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.61	2.50	4.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.90	2.50	4.90	ug/Kg
591-78-6	2-Hexanone	12.3	U	3.60	12.3	24.5	ug/Kg
124-48-1	Dibromochloromethane	2.50	U	0.85	2.50	4.90	ug/Kg
106-93-4	1,2-Dibromoethane	2.50	U	0.86	2.50	4.90	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.00	2.50	4.90	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.89	2.50	4.90	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.66	2.50	4.90	ug/Kg
179601-23-1	m/p-Xylenes	4.90	U	1.20	4.90	9.80	ug/Kg
95-47-6	o-Xylene	2.50	U	0.80	2.50	4.90	ug/Kg
100-42-5	Styrene	2.50	U	0.70	2.50	4.90	ug/Kg
75-25-2	Bromoform	2.50	U	0.84	2.50	4.90	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.77	2.50	4.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	4.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	4.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.50	2.50	4.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.40	2.50	4.90	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.90	U	1.80	3.90	4.90	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.90	U	2.90	3.90	4.90	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.90	U	3.10	3.90	4.90	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	59.0		71 - 136		118%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	51.6		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.9	*	79 - 119		78%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	617000	7.707				
540-36-3	1,4-Difluorobenzene	1190000	8.61				
3114-55-4	Chlorobenzene-d5	951000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	298000	13.34				

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-10	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	5.52 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
VY023072.D	1	08/13/25 16:06	VY081325

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\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-S

Quant Time: Aug 14 01:25:57 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	616963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	1186470	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	951178	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	298114	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	347001	59.013	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.020%			
35) Dibromofluoromethane	7.628	113	378899	53.370	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.740%			
50) Toluene-d8	10.103	98	1431015	51.597	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.200%			
62) 4-Bromofluorobenzene	12.402	95	346712	38.872	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 77.740%			

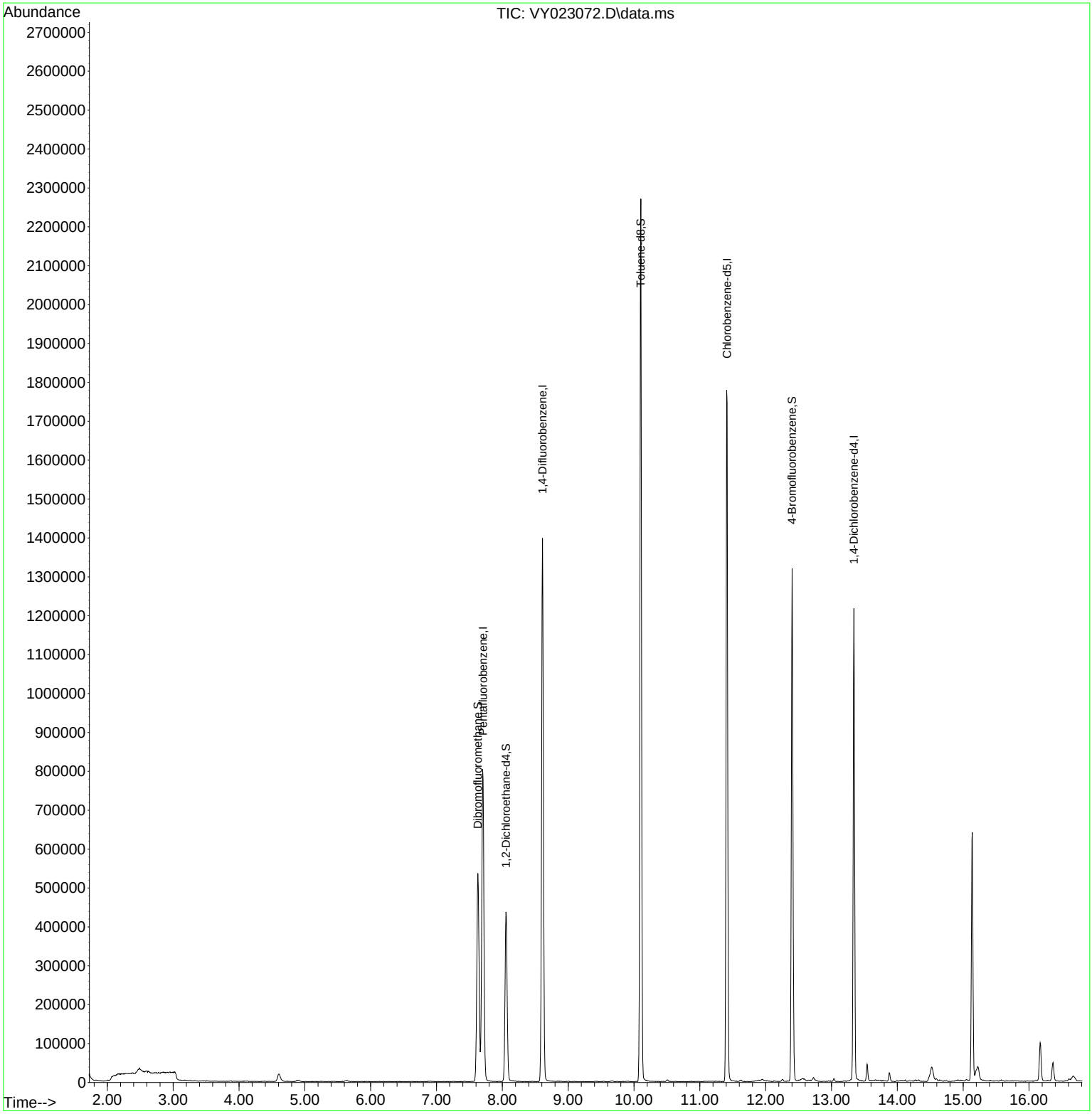
Target Compounds Qvalue

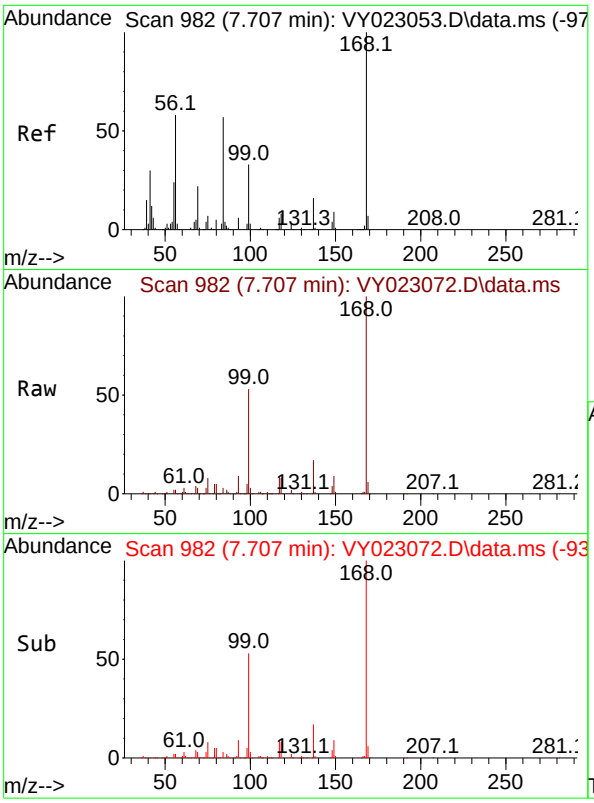
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-S

Quant Time: Aug 14 01:25:57 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



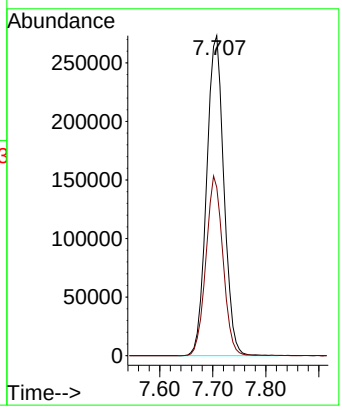


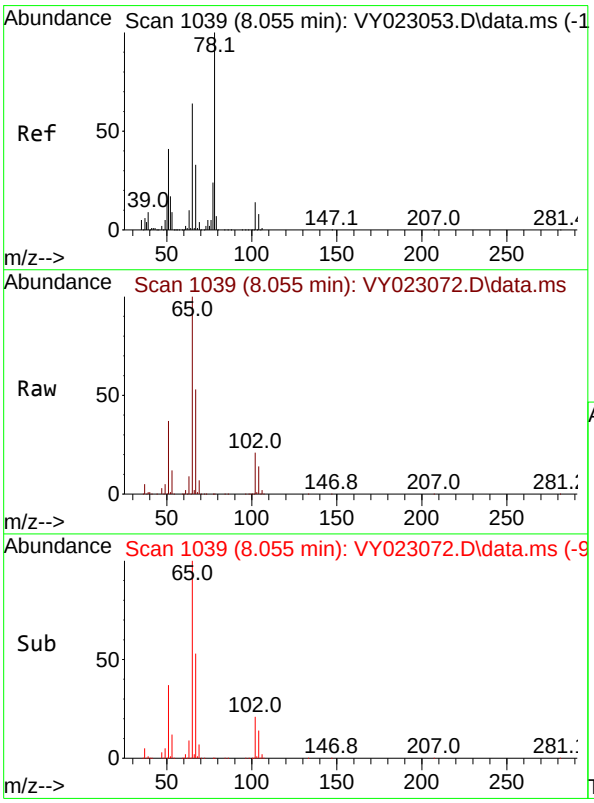
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
84SB-S

Tgt Ion:168 Resp: 616963

Ion	Ratio	Lower	Upper
168	100		
99	52.6	42.8	64.2

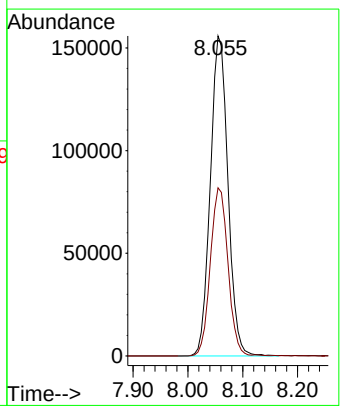


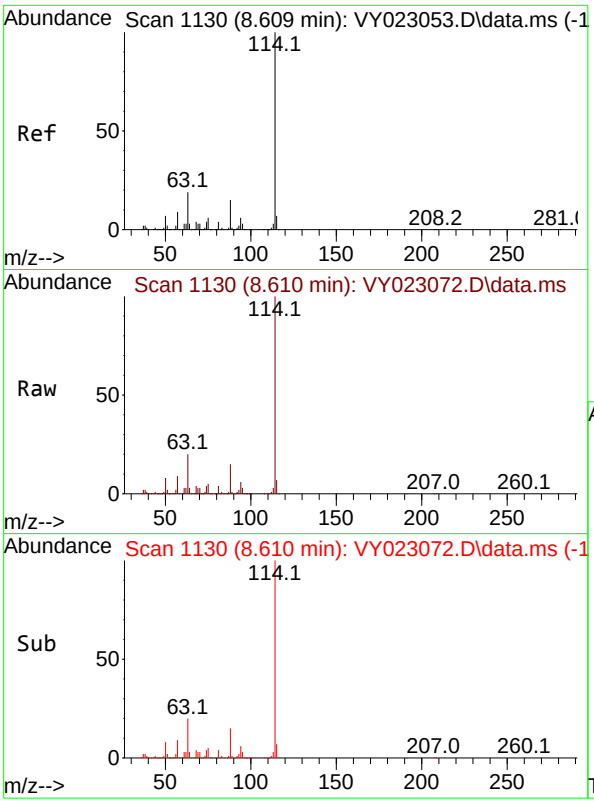


#33
1,2-Dichloroethane-d4
Concen: 59.013 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion: 65 Resp: 347001

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.8



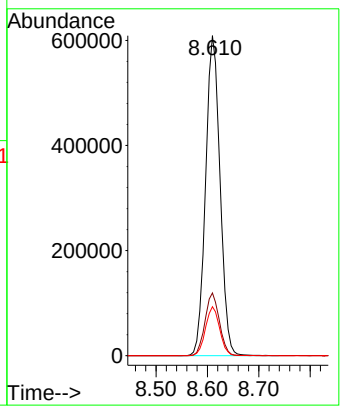


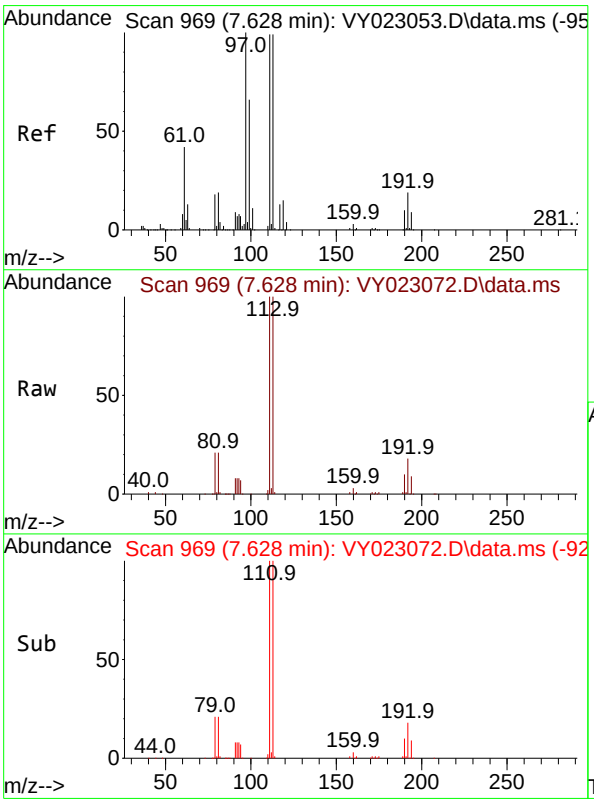
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
84SB-S

Tgt Ion:114 Resp: 1186470

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.4
88	15.3	0.0	30.0

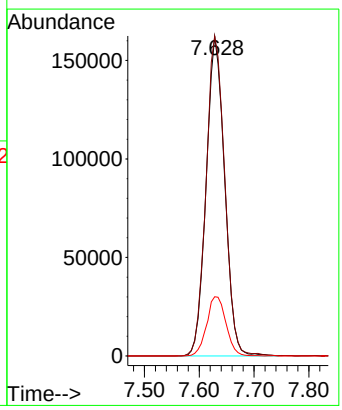


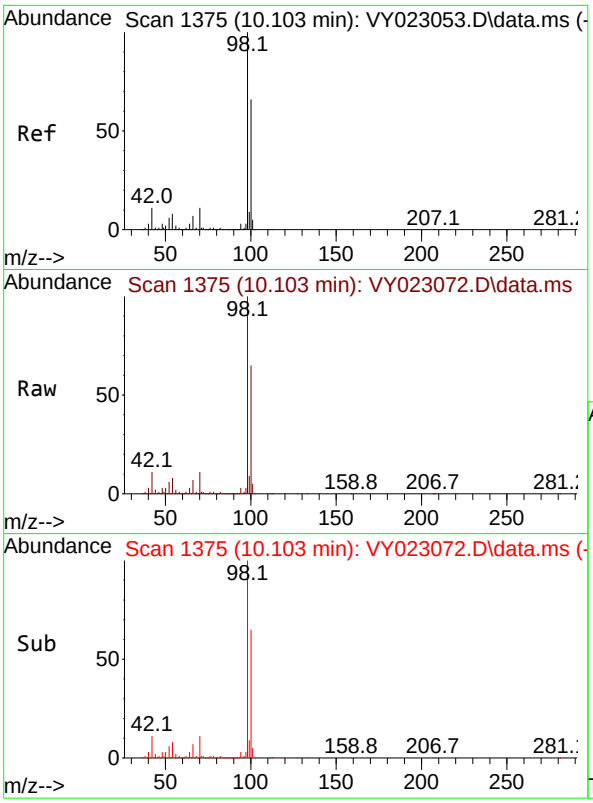


#35
Dibromofluoromethane
Concen: 53.370 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion:113 Resp: 378899

Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.1	121.7
192	19.4	16.2	24.4



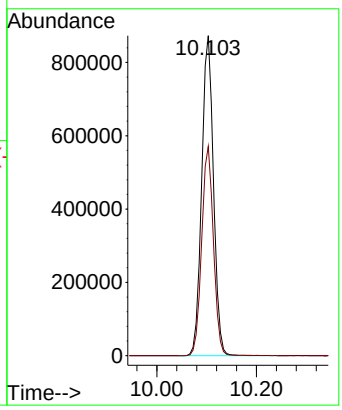


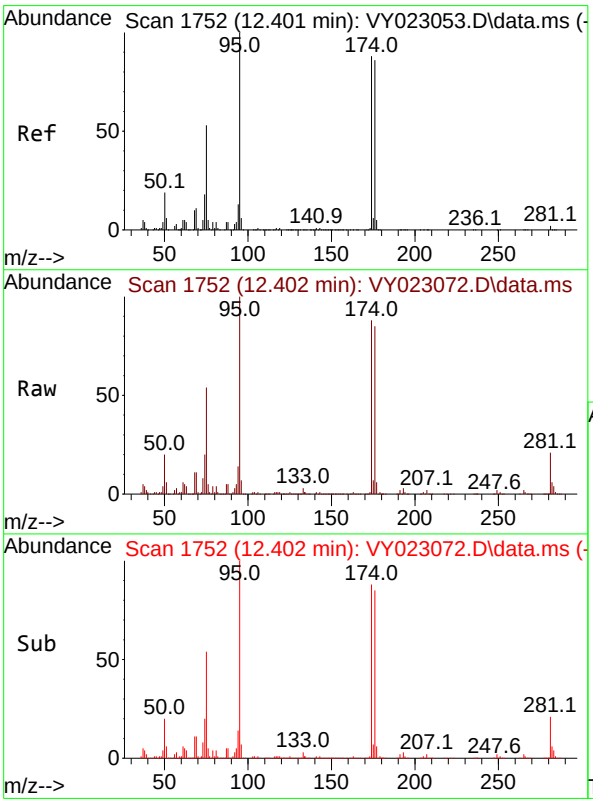
#50
Toluene-d8
Concen: 51.597 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
84SB-S

Tgt Ion: 98 Resp: 1431015

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

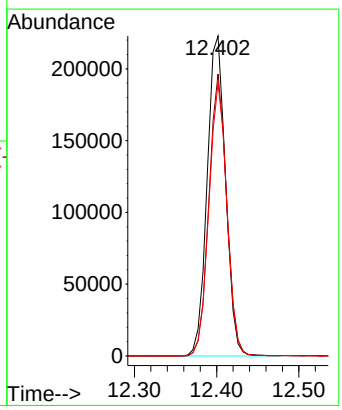


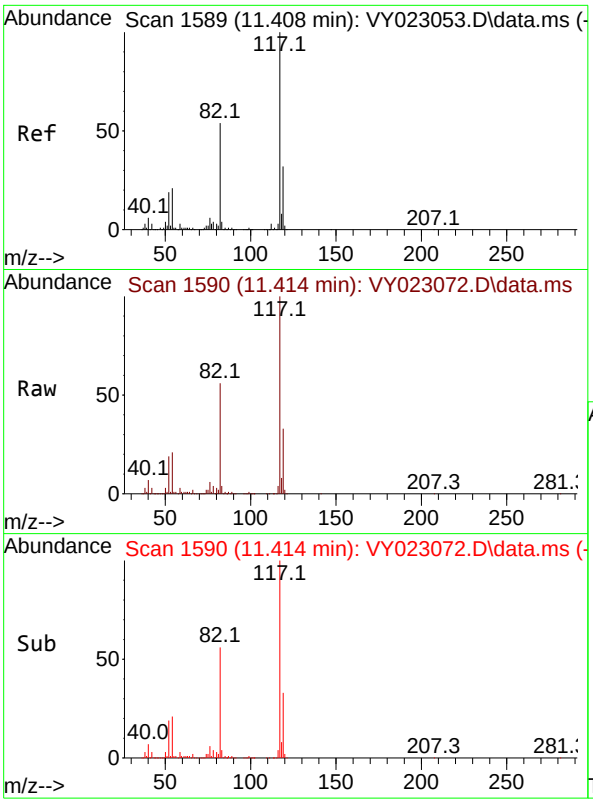


#62
4-Bromofluorobenzene
Concen: 38.872 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion: 95 Resp: 346712

Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	171.6
176	83.0	0.0	167.6



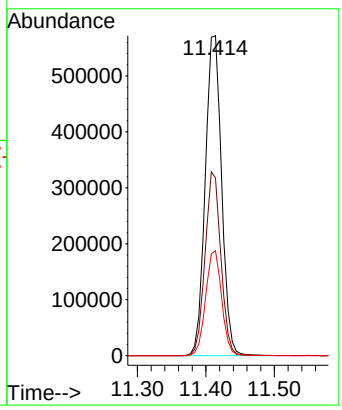


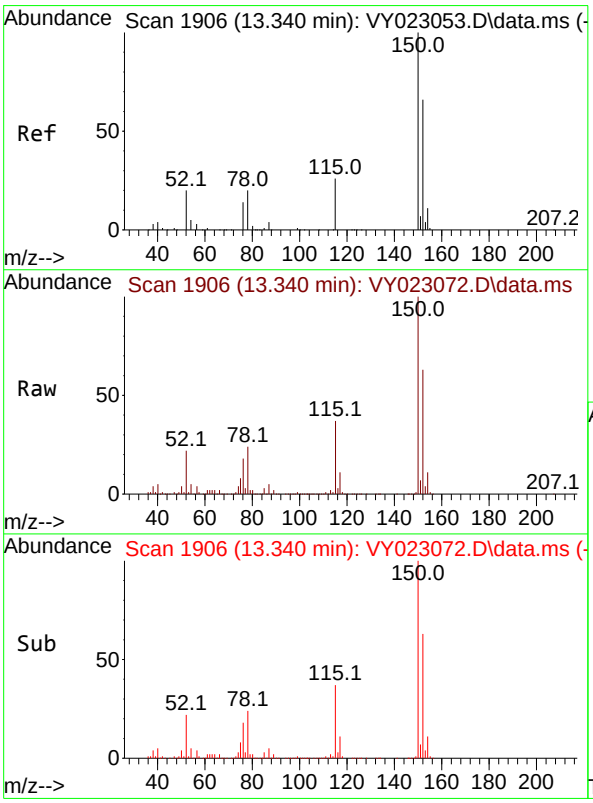
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Instrument :
MSVOA_Y
ClientSampleId :
84SB-S

Tgt Ion:117 Resp: 951178

Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.4	65.0
119	32.8	25.6	38.4

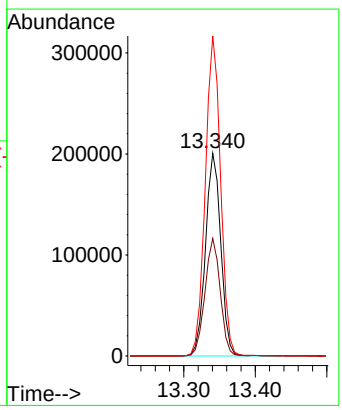




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion:152 Resp: 298114

Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.2	84.6
150	157.6	0.0	348.0



Sample Results: **VY023072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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: VY023072.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.604	464	473	484	rBV3	19029	62559	1.66%	0.324%
2	7.628	959	969	975	rBV	535064	1259937	33.47%	6.531%
3	7.701	975	981	993	rVB	801734	1806636	47.99%	9.365%
4	8.055	1030	1039	1051	rBV	436112	976269	25.93%	5.061%
5	8.610	1120	1130	1143	rBV	1397303	2718809	72.22%	14.093%
6	10.103	1367	1375	1392	rBV	2269571	3764541	100.00%	19.514%
7	11.408	1581	1589	1602	rBV	1777967	2939143	78.07%	15.235%
8	12.402	1744	1752	1764	rBV2	1318412	2246893	59.69%	11.647%
9	13.340	1899	1906	1915	rBV	1211947	1811934	48.13%	9.392%
10	13.542	1934	1939	1945	rBV	42174	64916	1.72%	0.336%
11	14.523	2087	2100	2109	rBV2	37634	136090	3.62%	0.705%
12	15.139	2191	2201	2207	rBV	638532	1047907	27.84%	5.432%
13	15.224	2207	2215	2227	rVB4	35534	121990	3.24%	0.632%
14	16.169	2362	2370	2381	rVB	98377	193455	5.14%	1.003%
15	16.364	2394	2402	2411	rVB	47368	98241	2.61%	0.509%
16	16.675	2446	2453	2462	rVB4	12567	42284	1.12%	0.219%

Sum of corrected areas: 19291604

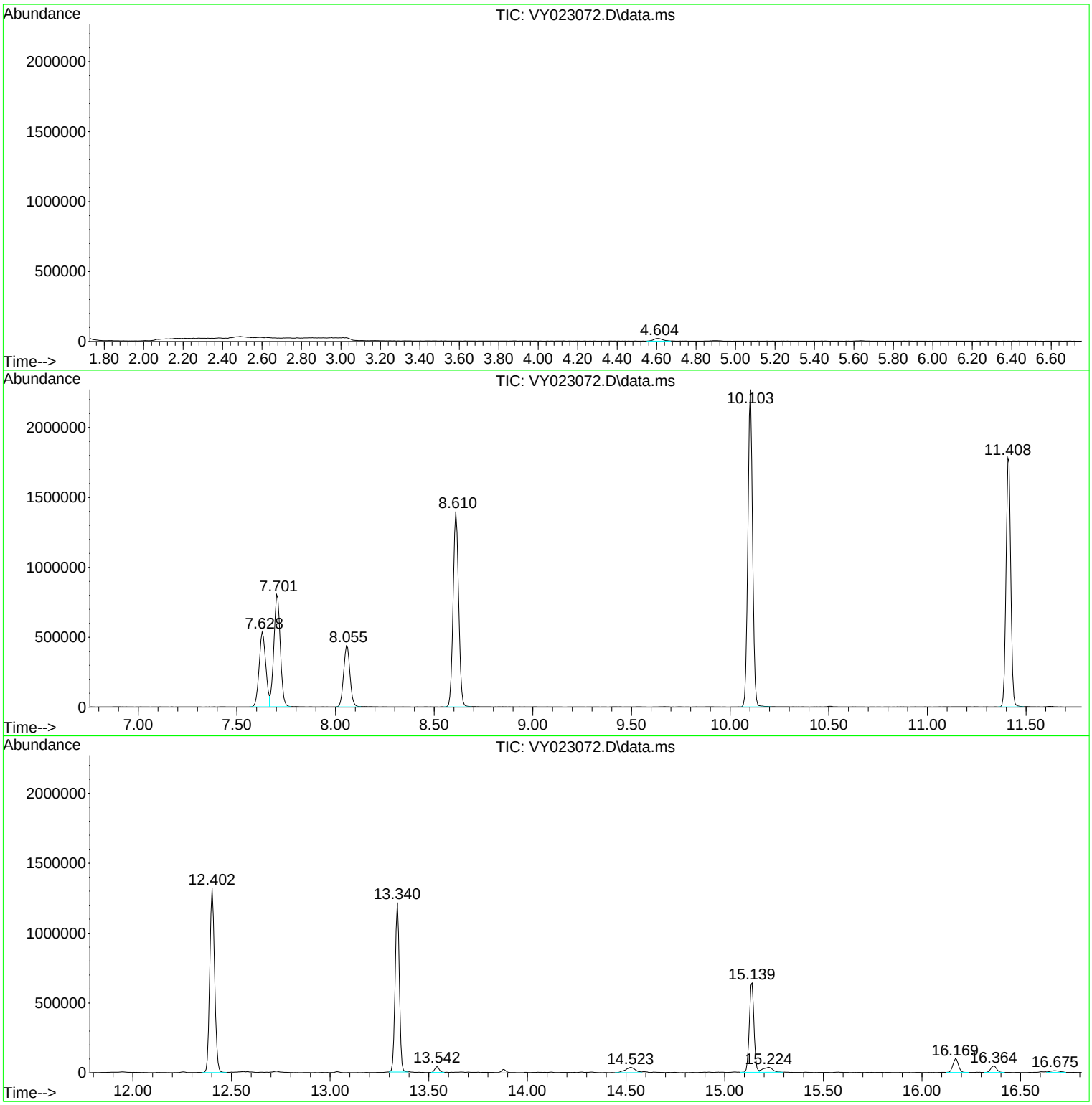
Sample Results: **VY023072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard 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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-10RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	4.96 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
VY023089.D	1	08/14/25 12:50	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.40	U	1.20	4.40	5.50	ug/Kg
74-87-3	Chloromethane	2.70	U	1.20	2.70	5.50	ug/Kg
75-01-4	Vinyl Chloride	2.70	U	0.86	2.70	5.50	ug/Kg
74-83-9	Bromomethane	4.40	U	1.20	4.40	5.50	ug/Kg
75-00-3	Chloroethane	2.70	U	1.40	2.70	5.50	ug/Kg
75-69-4	Trichlorofluoromethane	4.40	U	1.30	4.40	5.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.70	U	1.20	2.70	5.50	ug/Kg
75-35-4	1,1-Dichloroethene	2.70	U	1.10	2.70	5.50	ug/Kg
67-64-1	Acetone	21.8	U	5.20	21.8	27.3	ug/Kg
75-15-0	Carbon Disulfide	4.40	U	1.20	4.40	5.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.70	U	0.80	2.70	5.50	ug/Kg
79-20-9	Methyl Acetate	4.40	U	1.70	4.40	5.50	ug/Kg
75-09-2	Methylene Chloride	8.70	U	3.90	8.70	10.9	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.70	U	0.94	2.70	5.50	ug/Kg
75-34-3	1,1-Dichloroethane	2.70	U	0.87	2.70	5.50	ug/Kg
110-82-7	Cyclohexane	2.70	U	0.86	2.70	5.50	ug/Kg
78-93-3	2-Butanone	21.8	U	7.10	21.8	27.3	ug/Kg
56-23-5	Carbon Tetrachloride	2.70	U	1.10	2.70	5.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.70	U	0.82	2.70	5.50	ug/Kg
74-97-5	Bromochloromethane	4.40	U	1.30	4.40	5.50	ug/Kg
67-66-3	Chloroform	4.40	U	0.92	4.40	5.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.70	U	1.00	2.70	5.50	ug/Kg
108-87-2	Methylcyclohexane	2.70	U	0.99	2.70	5.50	ug/Kg
71-43-2	Benzene	2.70	U	0.86	2.70	5.50	ug/Kg
107-06-2	1,2-Dichloroethane	2.70	U	0.86	2.70	5.50	ug/Kg
79-01-6	Trichloroethene	2.70	U	0.88	2.70	5.50	ug/Kg
78-87-5	1,2-Dichloropropane	2.70	U	0.99	2.70	5.50	ug/Kg
75-27-4	Bromodichloromethane	2.70	U	0.85	2.70	5.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13.7	U	3.90	13.7	27.3	ug/Kg
108-88-3	Toluene	2.70	U	0.85	2.70	5.50	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-10RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	4.96 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
VY023089.D	1	08/14/25 12:50	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.70	U	0.71	2.70	5.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.70	U	0.68	2.70	5.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.70	U	1.00	2.70	5.50	ug/Kg
591-78-6	2-Hexanone	13.7	U	4.00	13.7	27.3	ug/Kg
124-48-1	Dibromochloromethane	2.70	U	0.95	2.70	5.50	ug/Kg
106-93-4	1,2-Dibromoethane	2.70	U	0.96	2.70	5.50	ug/Kg
127-18-4	Tetrachloroethene	2.70	U	1.10	2.70	5.50	ug/Kg
108-90-7	Chlorobenzene	2.70	U	0.99	2.70	5.50	ug/Kg
100-41-4	Ethyl Benzene	2.70	U	0.73	2.70	5.50	ug/Kg
179601-23-1	m/p-Xylenes	5.50	U	1.40	5.50	10.9	ug/Kg
95-47-6	o-Xylene	2.70	U	0.90	2.70	5.50	ug/Kg
100-42-5	Styrene	2.70	U	0.78	2.70	5.50	ug/Kg
75-25-2	Bromoform	2.70	U	0.94	2.70	5.50	ug/Kg
98-82-8	Isopropylbenzene	2.70	U	0.85	2.70	5.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.70	U	1.30	2.70	5.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.70	U	1.90	2.70	5.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.70	U	1.70	2.70	5.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.70	U	1.60	2.70	5.50	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.40	U	2.00	4.40	5.50	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.40	U	3.20	4.40	5.50	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.40	U	3.50	4.40	5.50	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.1		71 - 136		122%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8		78 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	52.3		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.0	*	79 - 119		70%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	511000	7.707				
540-36-3	1,4-Difluorobenzene	976000	8.609				
3114-55-4	Chlorobenzene-d5	769000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	212000	13.34				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-SRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-10RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.3
Sample Wt/Vol:	4.96 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
VY023089.D	1	08/14/25 12:50	VY081425

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\VY081425\
Data File : VY023089.D
Acq On : 14 Aug 2025 12:50
Operator : SY/MD
Sample : Q2819-10RE
Misc : 4.96g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-SRE

Quant Time: Aug 14 14:47:50 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	511221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	976224	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	768763	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	212273	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	297512	61.062	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 122.120%			
35) Dibromofluoromethane	7.628	113	320069	54.793	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.580%			
50) Toluene-d8	10.103	98	1193902	52.318	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.640%			
62) 4-Bromofluorobenzene	12.401	95	256857	35.000	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 70.000%			

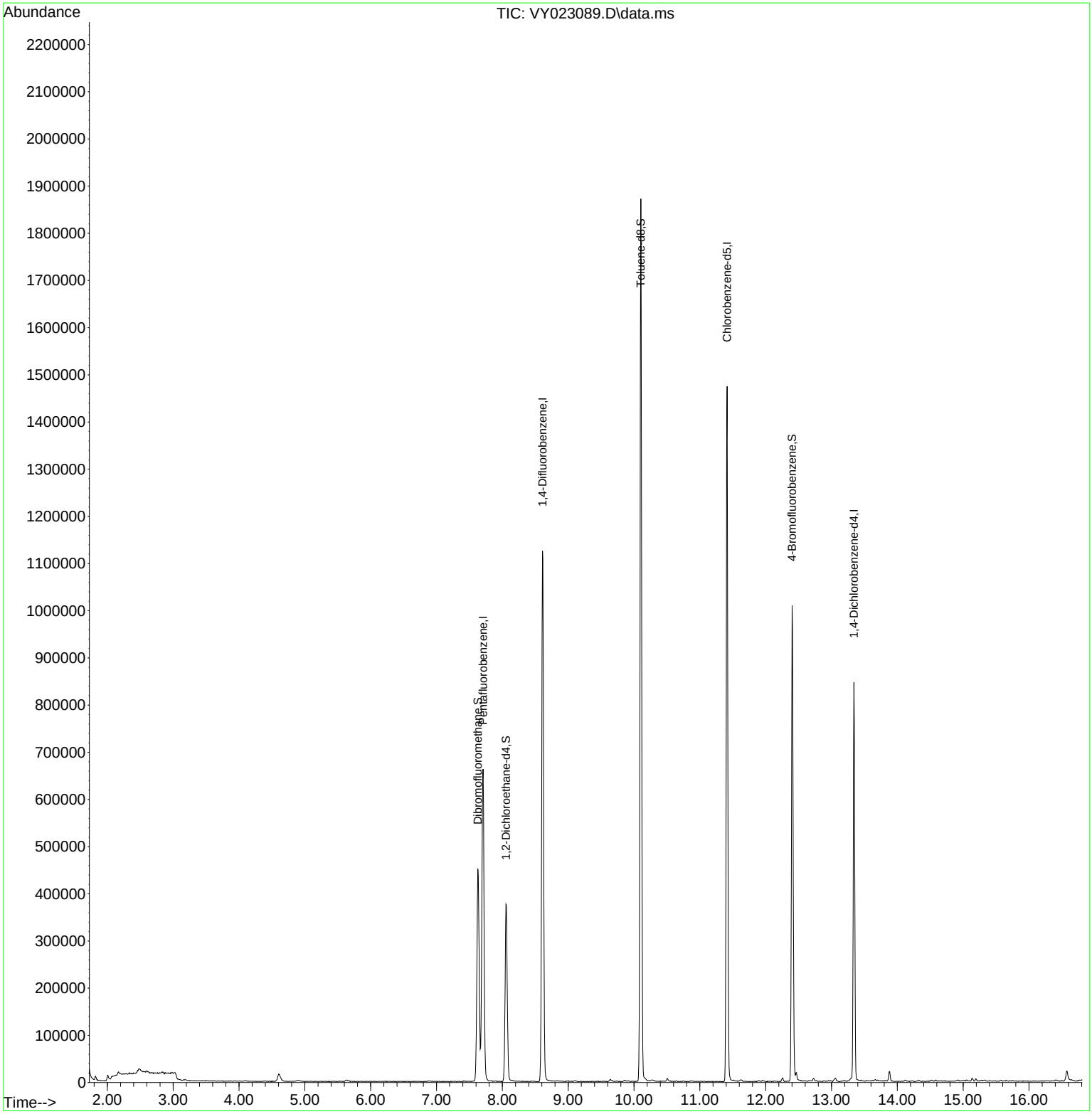
Target Compounds Qvalue

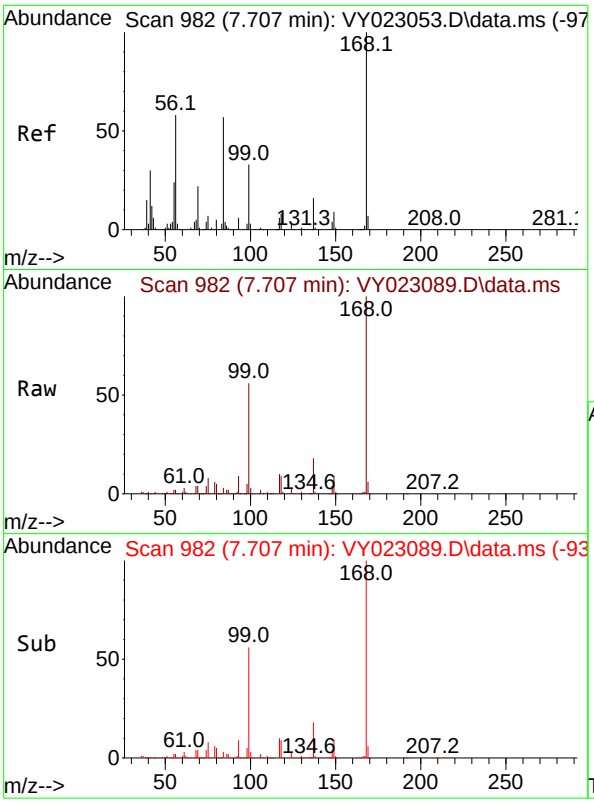
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023089.D
Acq On : 14 Aug 2025 12:50
Operator : SY/MD
Sample : Q2819-10RE
Misc : 4.96g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-SRE

Quant Time: Aug 14 14:47:50 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



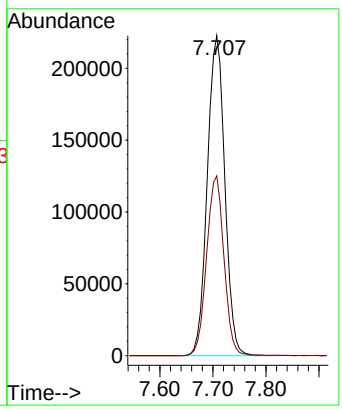


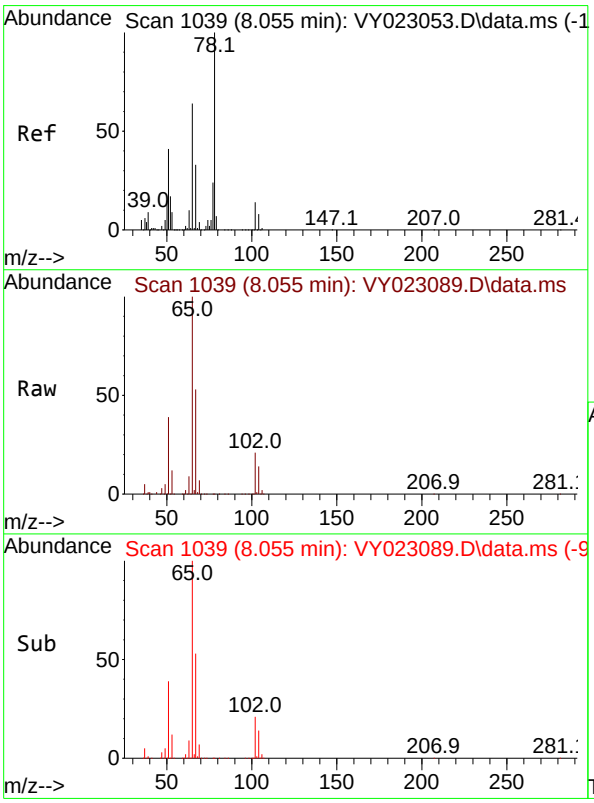
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Instrument :
MSVOA_Y
ClientSampleId :
84SB-SRE

Tgt Ion:168 Resp: 511221

Ion	Ratio	Lower	Upper
168	100		
99	56.2	42.8	64.2

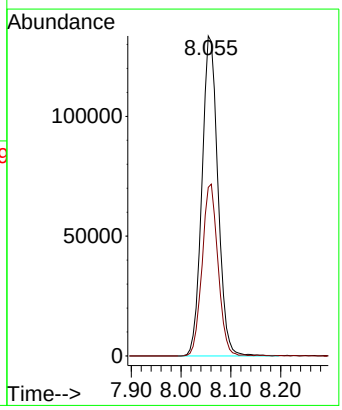


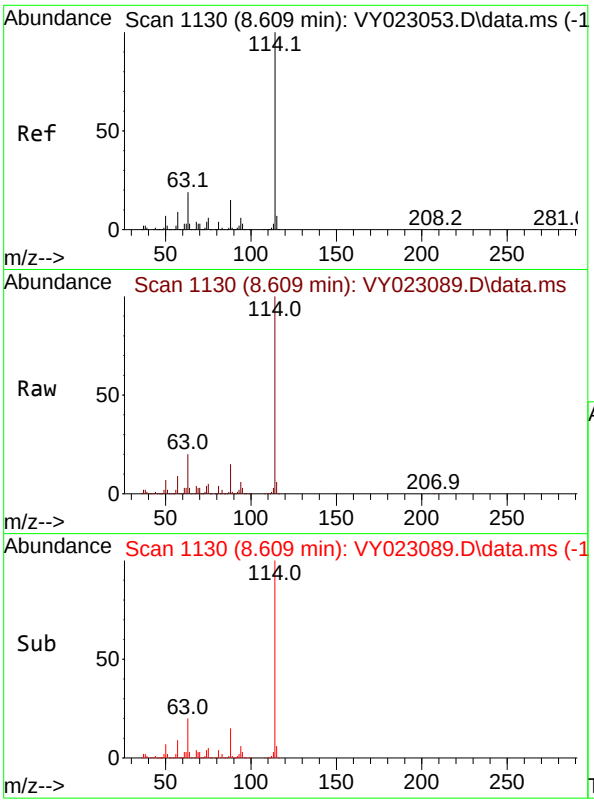


#33
1,2-Dichloroethane-d4
Concen: 61.062 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion: 65 Resp: 297512

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	106.8



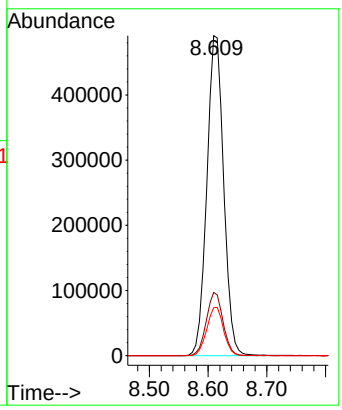


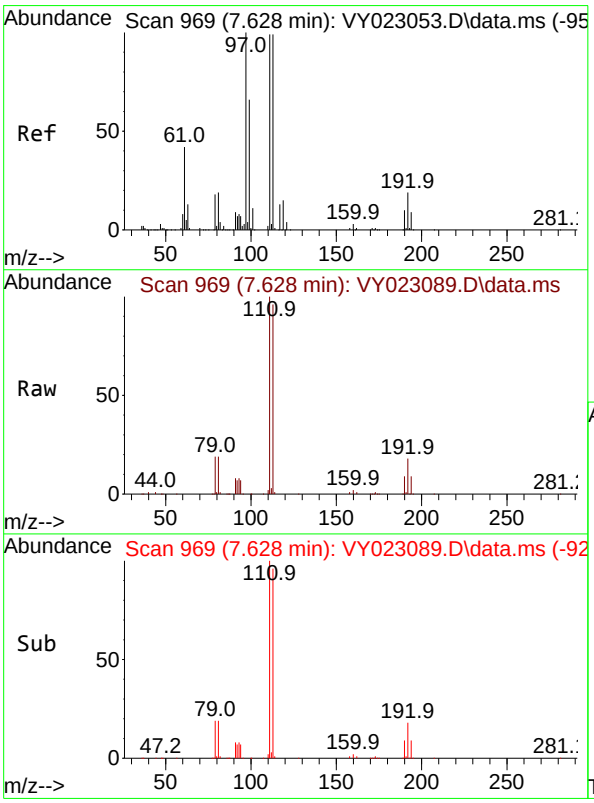
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Instrument :
MSVOA_Y
ClientSampleId :
84SB-SRE

Tgt Ion:114 Resp: 976224

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.0	0.0	30.0

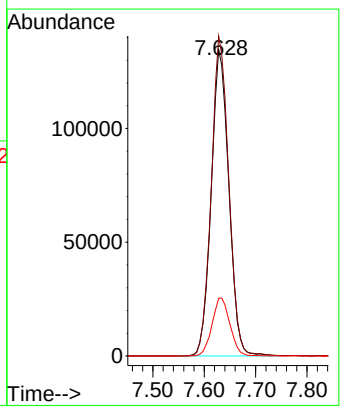


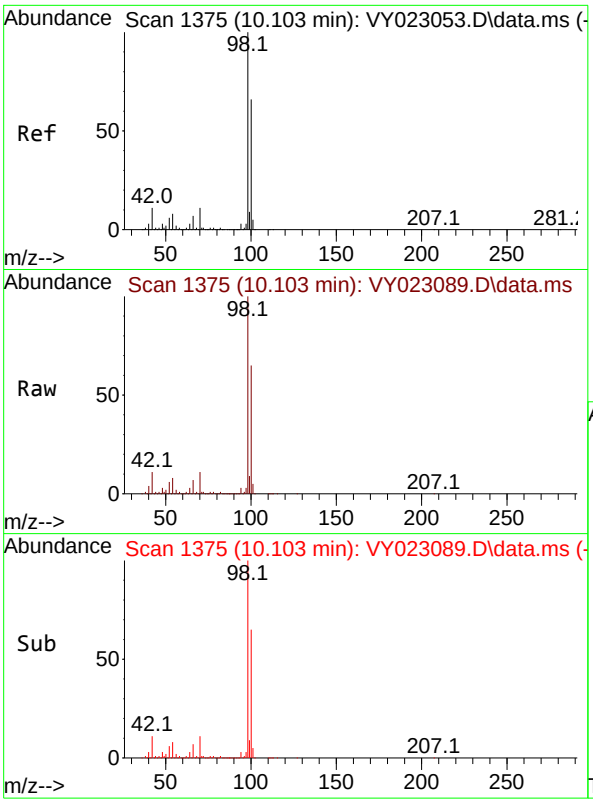


#35
Dibromofluoromethane
Concen: 54.793 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion:113 Resp: 320069

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.1	121.7
192	19.3	16.2	24.4



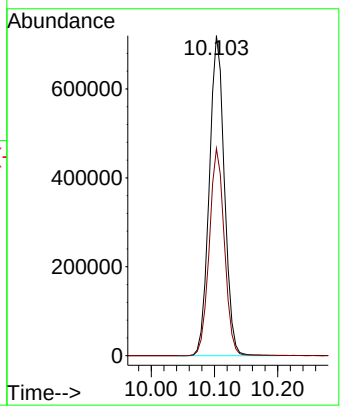


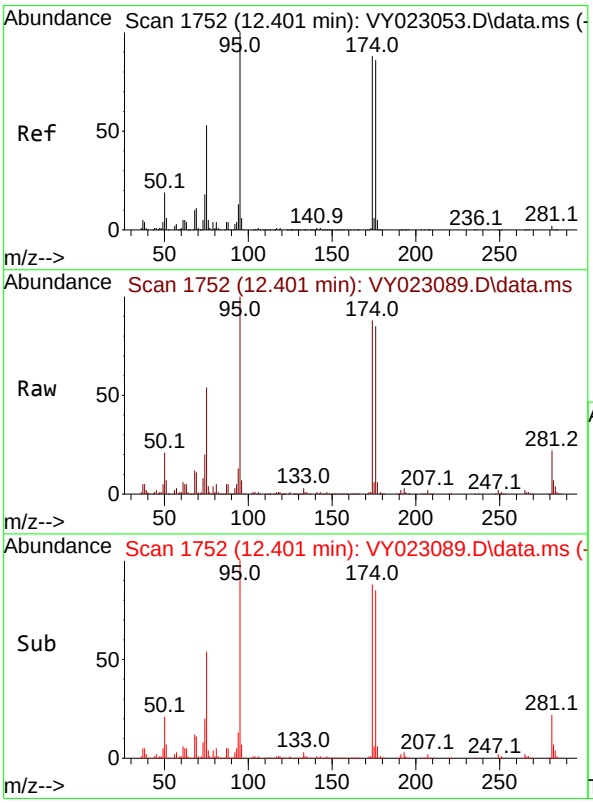
#50
Toluene-d8
Concen: 52.318 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Instrument :
MSVOA_Y
ClientSampleId :
84SB-SRE

Tgt Ion: 98 Resp: 1193902

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.3	78.5

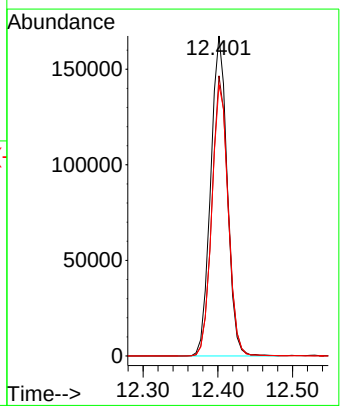


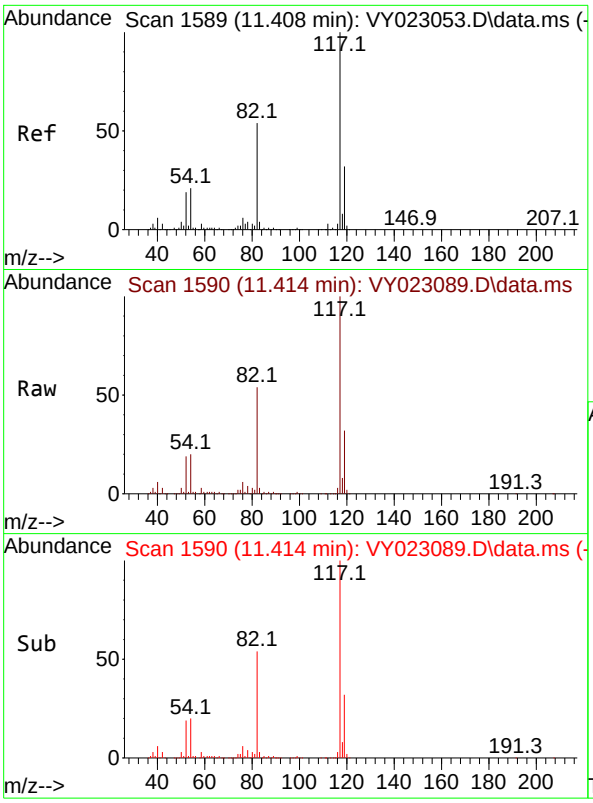


#62
4-Bromofluorobenzene
Concen: 35.000 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion: 95 Resp: 256857

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	171.6
176	84.2	0.0	167.6



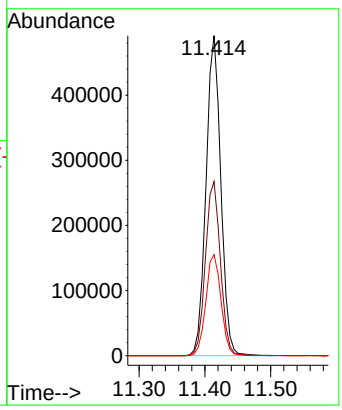


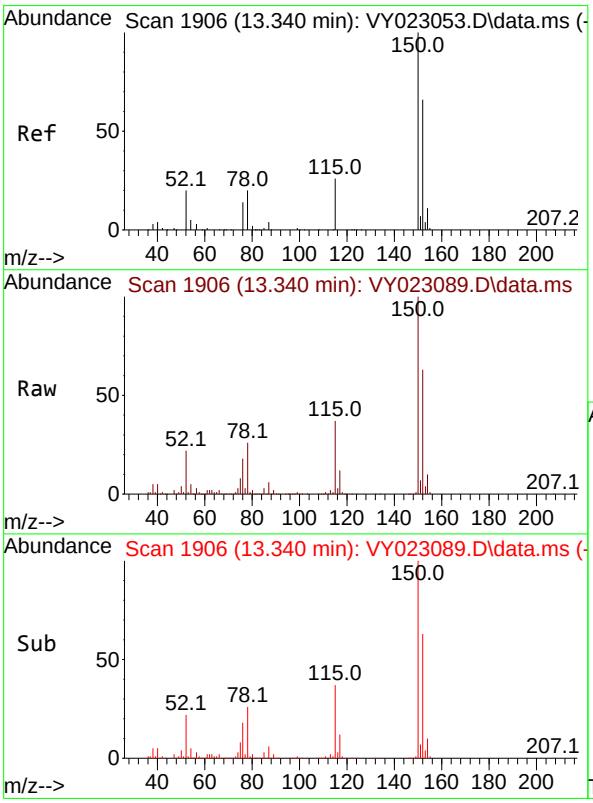
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Instrument :
MSVOA_Y
ClientSampleId :
84SB-SRE

Tgt Ion:117 Resp: 768763

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	31.6	25.6	38.4

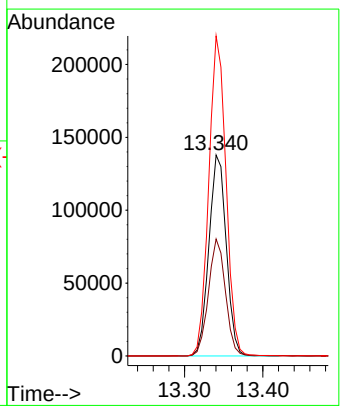




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion:152 Resp: 212273

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.2	84.6
150	157.7	0.0	348.0



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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	5.46 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
VY023073.D	1	08/13/25 16:30	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	U	1.20	4.20	5.30	ug/Kg
74-87-3	Chloromethane	2.60	U	1.20	2.60	5.30	ug/Kg
75-01-4	Vinyl Chloride	2.60	U	0.83	2.60	5.30	ug/Kg
74-83-9	Bromomethane	4.20	U	1.10	4.20	5.30	ug/Kg
75-00-3	Chloroethane	2.60	U	1.30	2.60	5.30	ug/Kg
75-69-4	Trichlorofluoromethane	4.20	U	1.30	4.20	5.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.60	U	1.10	2.60	5.30	ug/Kg
75-35-4	1,1-Dichloroethene	2.60	U	1.10	2.60	5.30	ug/Kg
67-64-1	Acetone	21.1	U	5.00	21.1	26.4	ug/Kg
75-15-0	Carbon Disulfide	4.20	U	1.10	4.20	5.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.60	U	0.77	2.60	5.30	ug/Kg
79-20-9	Methyl Acetate	4.20	U	1.60	4.20	5.30	ug/Kg
75-09-2	Methylene Chloride	8.40	U	3.70	8.40	10.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.60	U	0.91	2.60	5.30	ug/Kg
75-34-3	1,1-Dichloroethane	2.60	U	0.84	2.60	5.30	ug/Kg
110-82-7	Cyclohexane	2.60	U	0.83	2.60	5.30	ug/Kg
78-93-3	2-Butanone	21.1	U	6.90	21.1	26.4	ug/Kg
56-23-5	Carbon Tetrachloride	2.60	U	1.00	2.60	5.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.60	U	0.79	2.60	5.30	ug/Kg
74-97-5	Bromochloromethane	4.20	U	1.20	4.20	5.30	ug/Kg
67-66-3	Chloroform	4.20	U	0.89	4.20	5.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.60	U	0.98	2.60	5.30	ug/Kg
108-87-2	Methylcyclohexane	2.60	U	0.96	2.60	5.30	ug/Kg
71-43-2	Benzene	2.60	U	0.83	2.60	5.30	ug/Kg
107-06-2	1,2-Dichloroethane	2.60	U	0.83	2.60	5.30	ug/Kg
79-01-6	Trichloroethene	2.60	U	0.85	2.60	5.30	ug/Kg
78-87-5	1,2-Dichloropropane	2.60	U	0.96	2.60	5.30	ug/Kg
75-27-4	Bromodichloromethane	2.60	U	0.82	2.60	5.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	13.2	U	3.80	13.2	26.4	ug/Kg
108-88-3	Toluene	2.60	U	0.82	2.60	5.30	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	5.46 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
VY023073.D	1	08/13/25 16:30	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.60	U	0.69	2.60	5.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.60	U	0.65	2.60	5.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.60	U	0.97	2.60	5.30	ug/Kg
591-78-6	2-Hexanone	13.2	U	3.90	13.2	26.4	ug/Kg
124-48-1	Dibromochloromethane	2.60	U	0.92	2.60	5.30	ug/Kg
106-93-4	1,2-Dibromoethane	2.60	U	0.93	2.60	5.30	ug/Kg
127-18-4	Tetrachloroethene	2.60	U	1.10	2.60	5.30	ug/Kg
108-90-7	Chlorobenzene	2.60	U	0.96	2.60	5.30	ug/Kg
100-41-4	Ethyl Benzene	2.60	U	0.71	2.60	5.30	ug/Kg
179601-23-1	m/p-Xylenes	5.30	U	1.30	5.30	10.6	ug/Kg
95-47-6	o-Xylene	2.60	U	0.87	2.60	5.30	ug/Kg
100-42-5	Styrene	2.60	U	0.75	2.60	5.30	ug/Kg
75-25-2	Bromoform	2.60	U	0.91	2.60	5.30	ug/Kg
98-82-8	Isopropylbenzene	2.60	U	0.82	2.60	5.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.60	U	1.30	2.60	5.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.60	U	1.80	2.60	5.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.60	U	1.60	2.60	5.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.60	U	1.50	2.60	5.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	4.20	U	1.90	4.20	5.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	4.20	U	3.10	4.20	5.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.20	U	3.40	4.20	5.30	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.1		71 - 136		106%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	49.1		85 - 116		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.8	*	79 - 119		76%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	7.707				
540-36-3	1,4-Difluorobenzene	260000	8.61				
3114-55-4	Chlorobenzene-d5	197000	11.408				
3855-82-1	1,4-Dichlorobenzene-d4	66800	13.34				
TENTATIVE IDENTIFIED COMPOUNDS							

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	5.46 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
VY023073.D	1	08/13/25 16:30	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
1024470-80-1	3-Cyclohexyl-1-methyl-1-(2-phenyle	5.70	J			2.12	ug/Kg
000090-12-0	Naphthalene, 1-methyl-	7.40	J			16.2	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\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

Quant Time: Aug 14 01:26:18 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

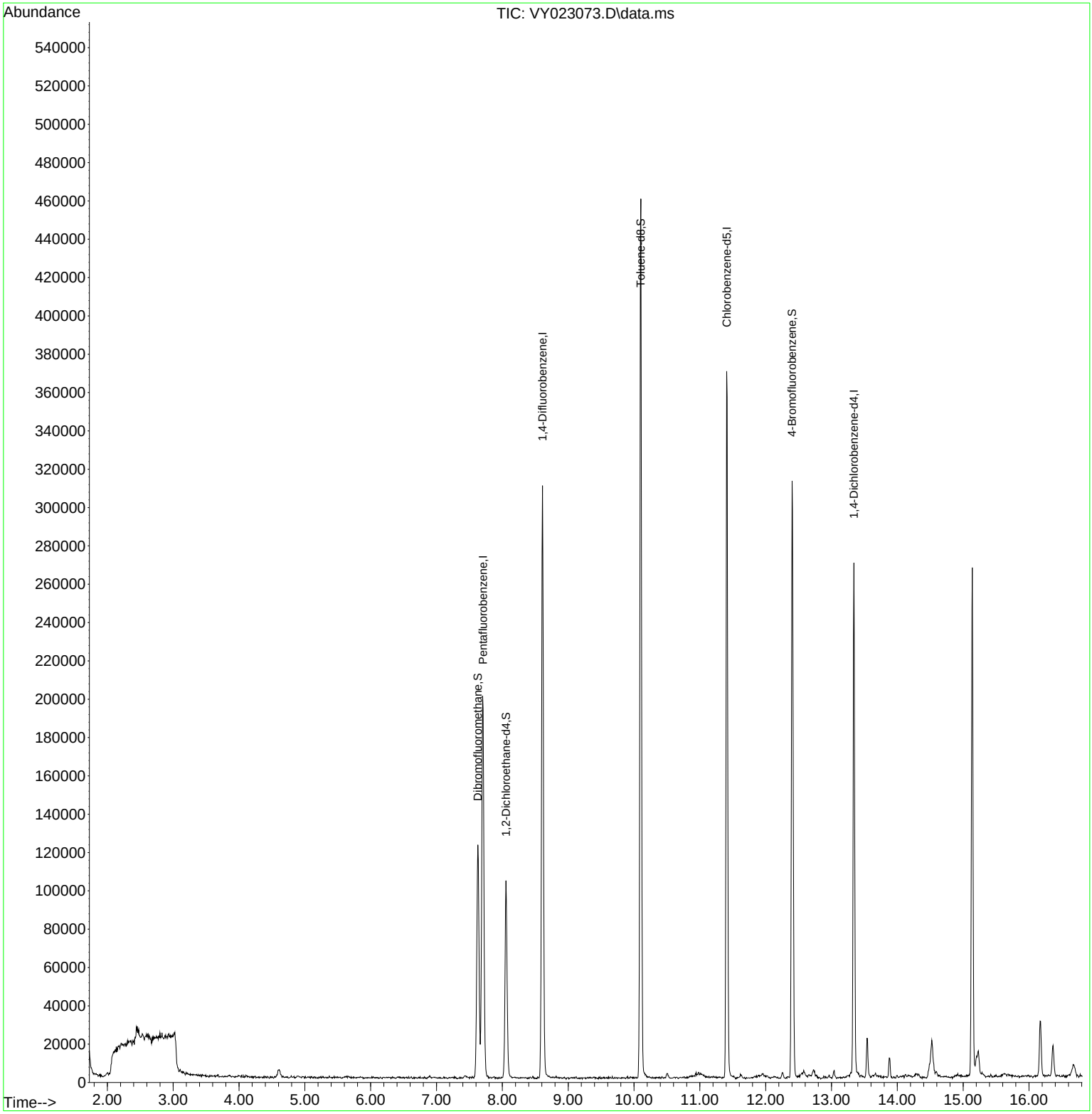
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	153832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	260153	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	196566	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	66820	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	77906	53.137	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.280%			
35) Dibromofluoromethane	7.628	113	84686	54.402	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 108.800%			
50) Toluene-d8	10.103	98	298869	49.146	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.300%			
62) 4-Bromofluorobenzene	12.402	95	73961	37.818	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 75.640%			
Target Compounds						Qvalue

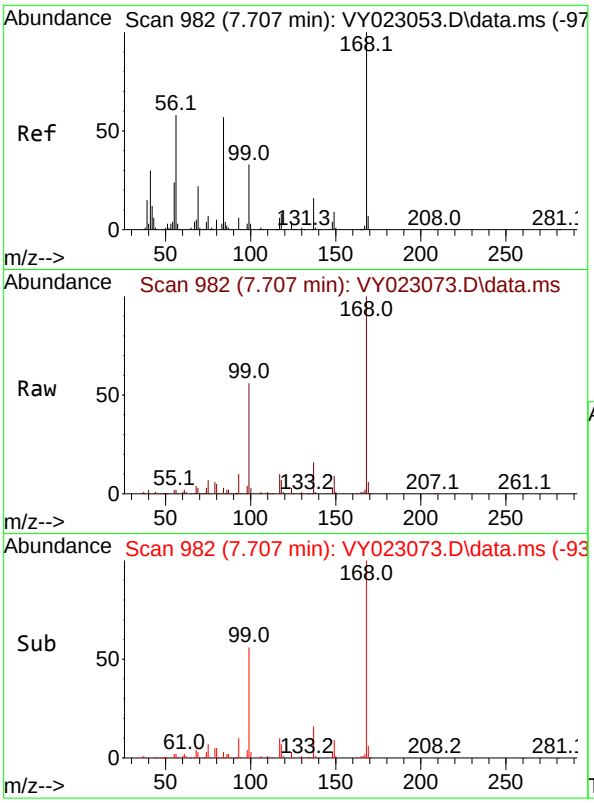
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

Quant Time: Aug 14 01:26:18 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



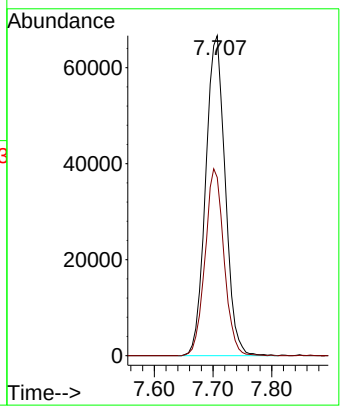


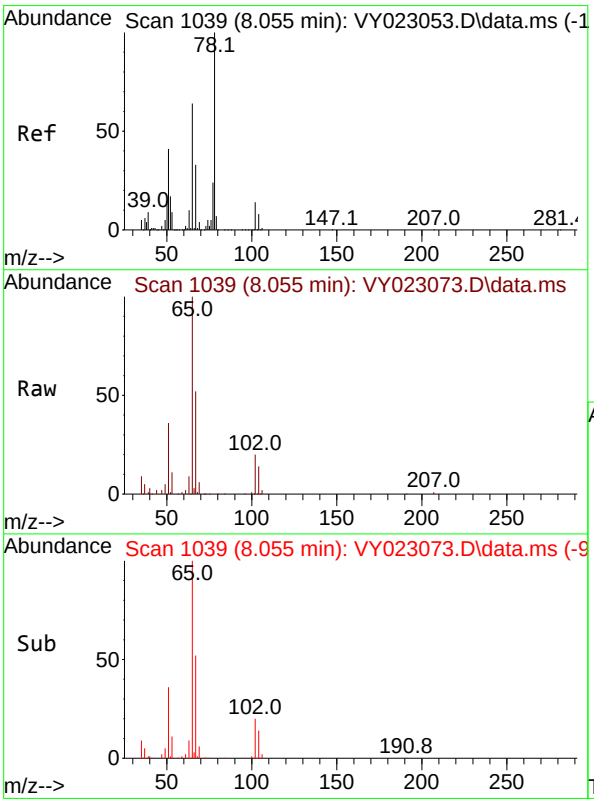
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

Tgt Ion:168 Resp: 153832

Ion	Ratio	Lower	Upper
168	100		
99	55.7	42.8	64.2

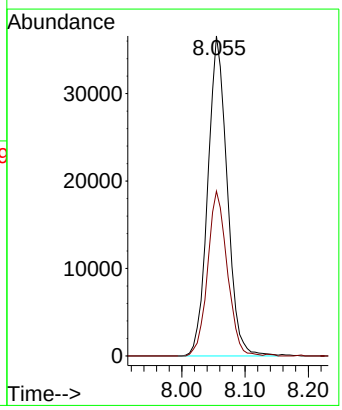


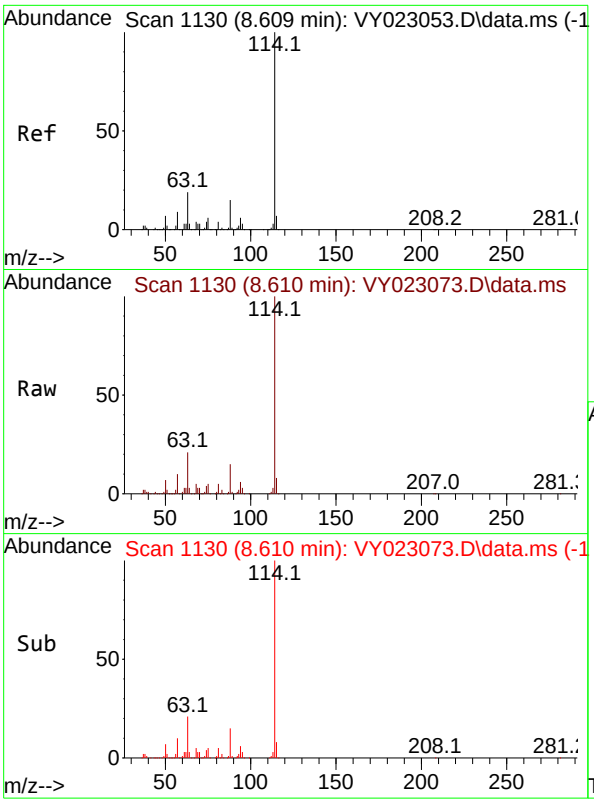


#33
1,2-Dichloroethane-d4
Concen: 53.137 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 65 Resp: 77906

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.8



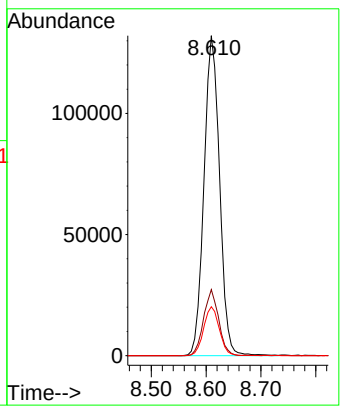


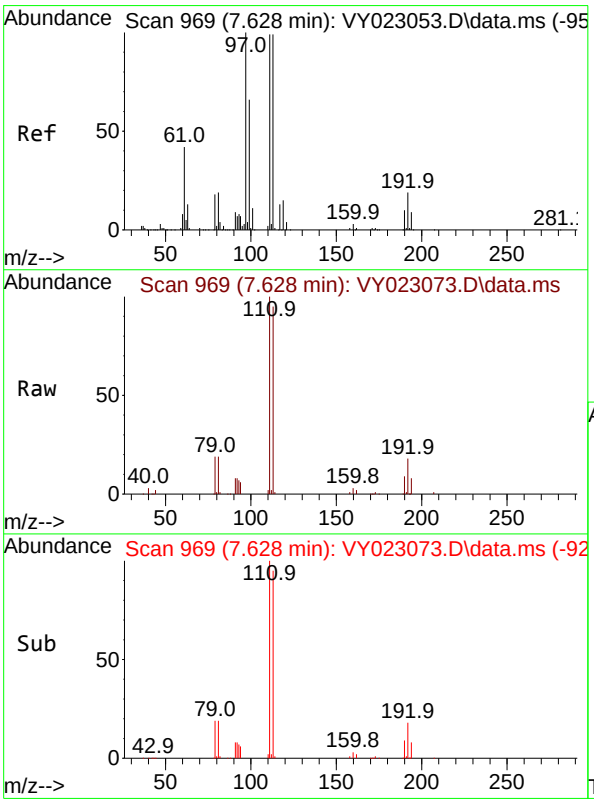
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

Tgt Ion:114 Resp: 260153

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	38.4
88	15.3	0.0	30.0

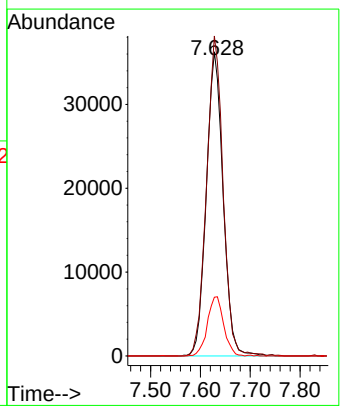


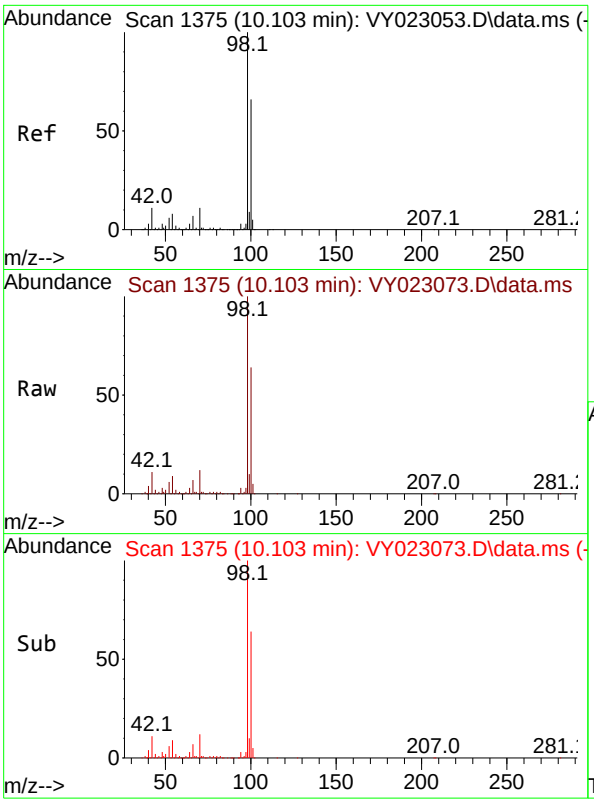


#35
Dibromofluoromethane
Concen: 54.402 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion:113 Resp: 84686

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.1	121.7
192	19.0	16.2	24.4



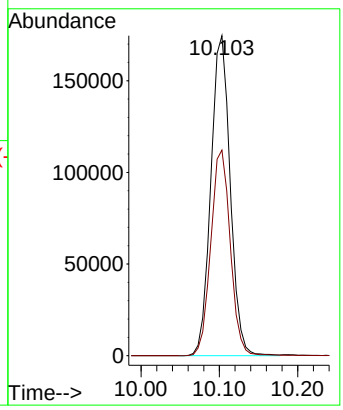


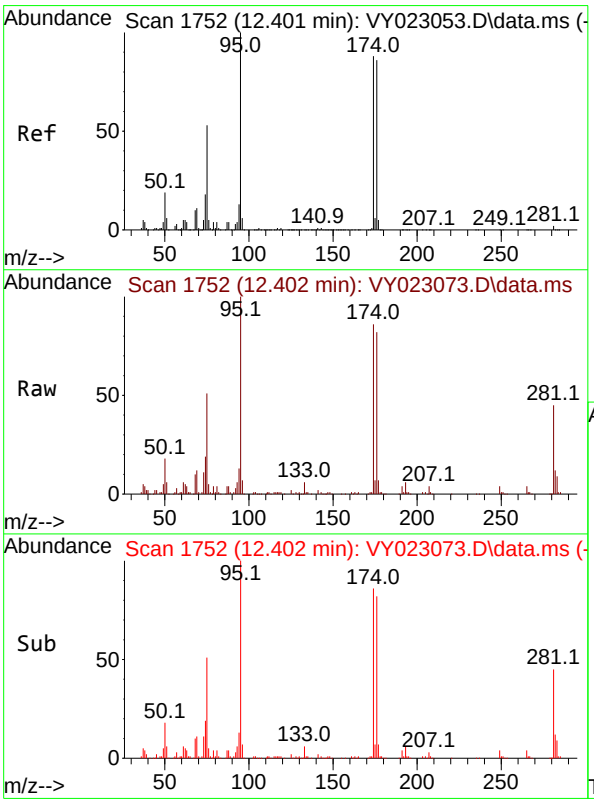
#50
Toluene-d8
Concen: 49.146 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

Tgt Ion: 98 Resp: 298869

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.3	78.5

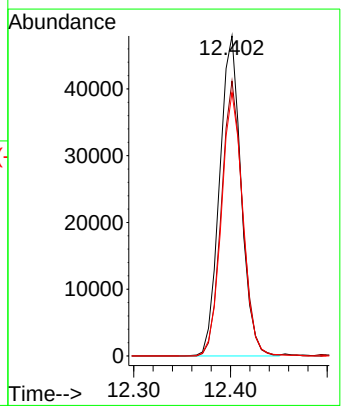


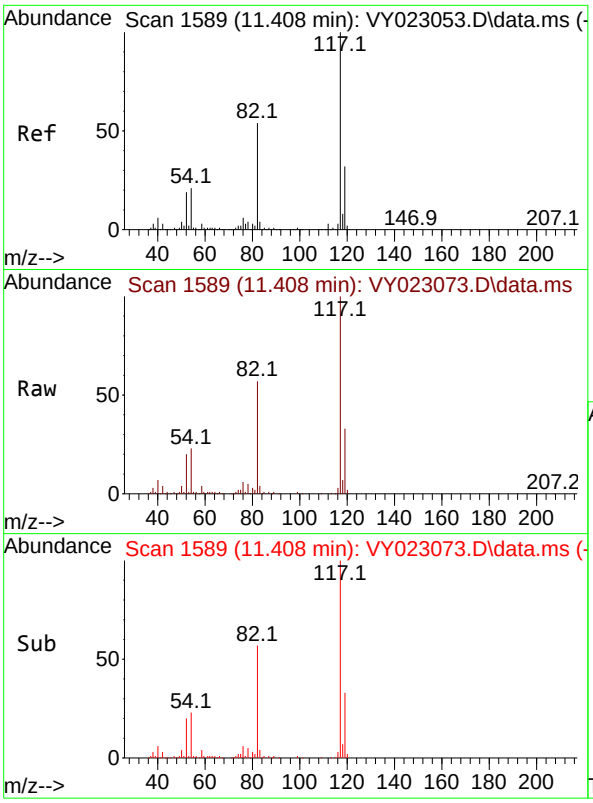


#62
4-Bromofluorobenzene
Concen: 37.818 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 95 Resp: 73961

Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	171.6
176	82.3	0.0	167.6



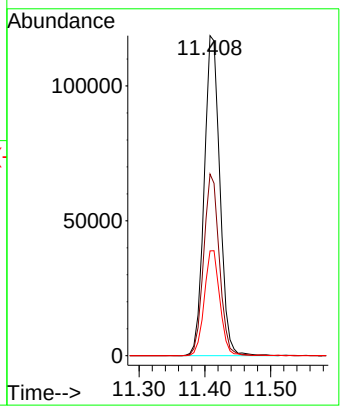


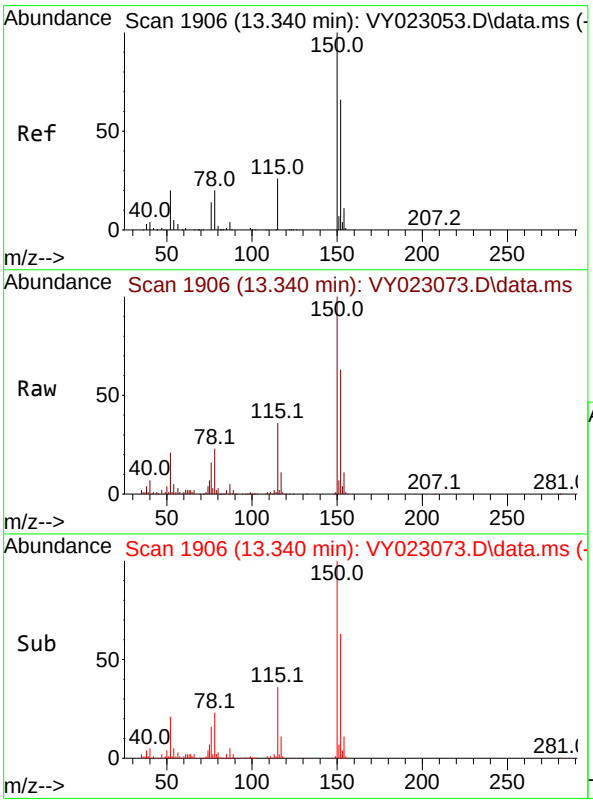
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

Tgt Ion:117 Resp: 196566

Ion	Ratio	Lower	Upper
117	100		
82	56.7	43.4	65.0
119	32.8	25.6	38.4

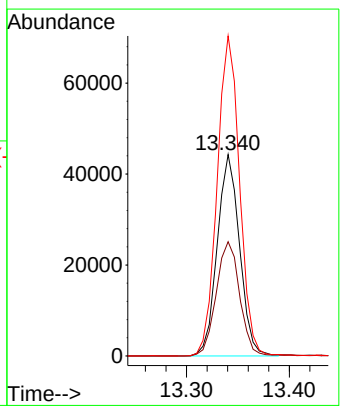




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion:152 Resp: 66820

Ion	Ratio	Lower	Upper
152	100		
115	59.8	28.2	84.6
150	159.5	0.0	348.0



Sample Results: **VY023073.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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: VY023073.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.123	52	66	67	rBV5	12637	48960	6.15%	1.030%
2	2.452	113	120	121	rBV3	9519	17172	2.16%	0.361%
3	7.628	959	969	975	rBV	121692	285931	35.94%	6.018%
4	7.701	975	981	992	rVB	198773	456479	57.37%	9.607%
5	8.055	1028	1039	1051	rBV	103013	222683	27.99%	4.687%
6	8.610	1121	1130	1140	rBV	309158	609022	76.55%	12.818%
7	10.103	1366	1375	1386	rBV	458870	795624	100.00%	16.745%
8	11.408	1582	1589	1600	rBV	368562	614721	77.26%	12.938%
9	12.402	1745	1752	1763	rBV2	311422	586409	73.70%	12.342%
10	13.340	1899	1906	1915	rBV	266343	412886	51.89%	8.690%
11	13.542	1933	1939	1947	rBV2	20736	35470	4.46%	0.747%
12	13.877	1988	1994	1999	rBV2	10343	17174	2.16%	0.361%
13	14.523	2087	2100	2108	rBV4	19761	63689	8.00%	1.340%
14	15.139	2194	2201	2208	rBV	264896	435255	54.71%	9.161%
15	15.230	2208	2216	2224	rVB6	12204	37229	4.68%	0.784%
16	16.169	2363	2370	2378	rBV	28733	58242	7.32%	1.226%
17	16.364	2395	2402	2410	rVB2	16183	34023	4.28%	0.716%
18	16.669	2444	2452	2461	rVB7	6081	20454	2.57%	0.430%

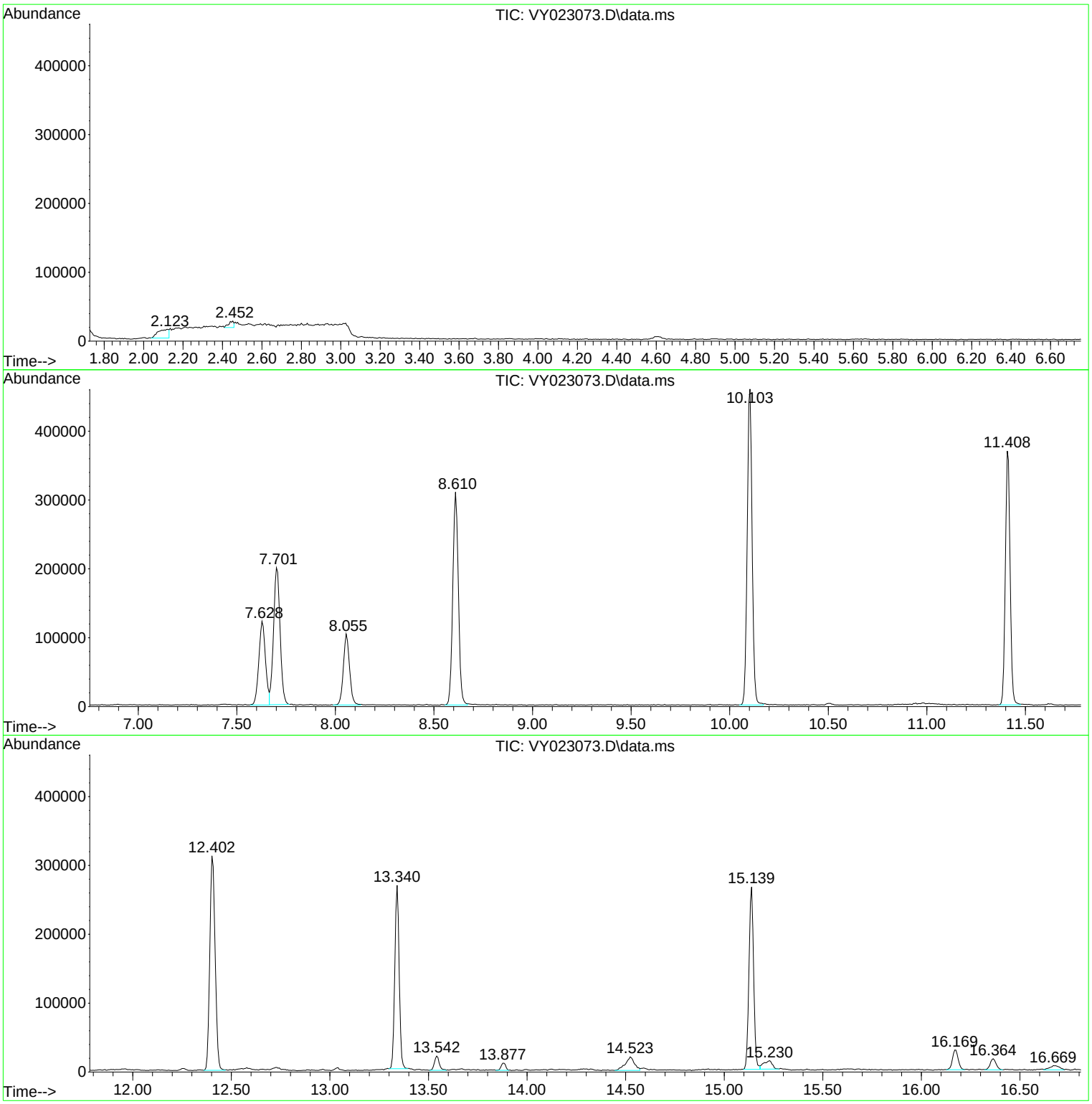
Sum of corrected areas: 4751423

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

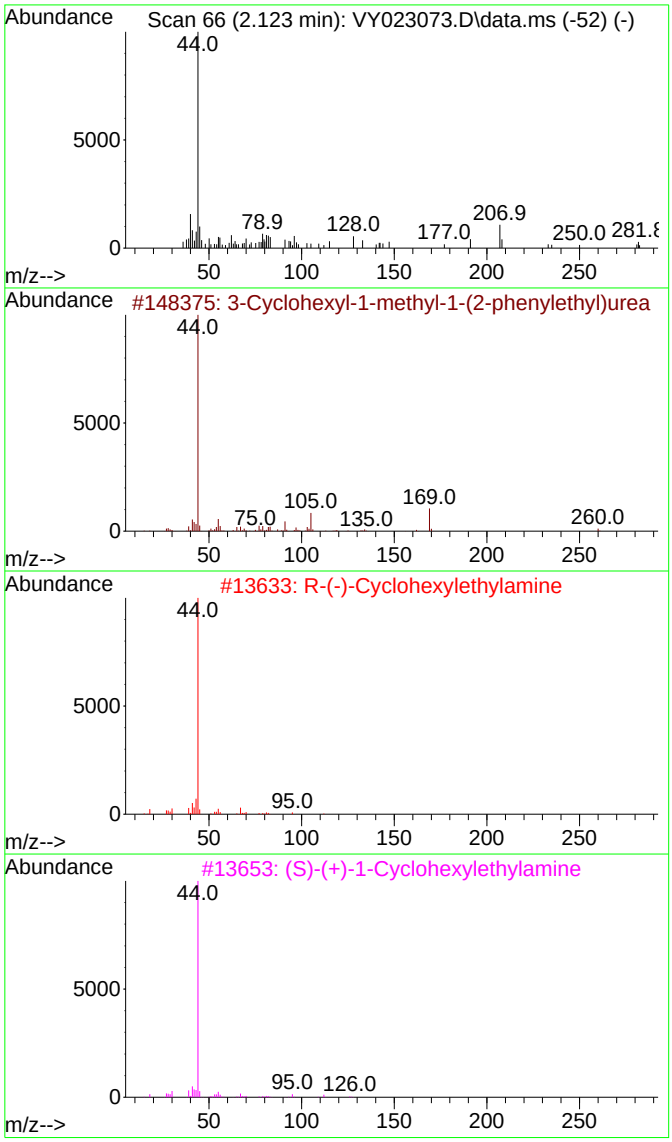
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

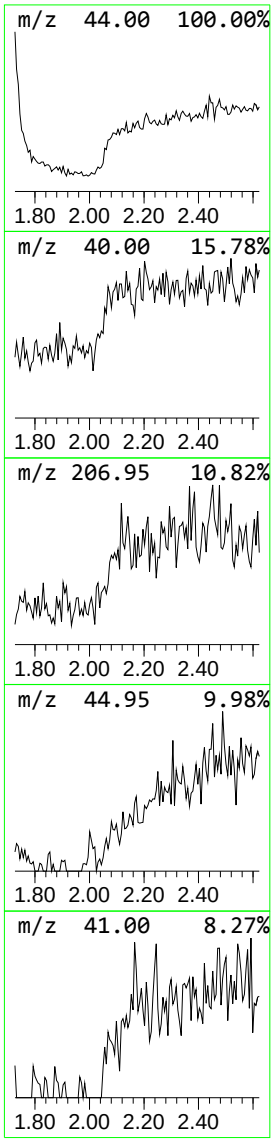
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 3-Cyclohexyl-1-methyl-1-(2-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.123	5.36 ug/l	48960	Pentafluorobenzene	7.707

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Cyclohexyl-1-methyl-1-(2-pheny...	260	C16H24N2O	1024470-80-1	50
2	R-(-)-Cyclohexylethylamine	127	C8H17N	005913-13-3	40
3	(S)-(+)-1-Cyclohexylethylamine	127	C8H17N	017430-98-7	40
4	2-Butanamine, (S)-	73	C4H11N	000513-49-5	40
5	2-Iodohiistidine	281	C6H8IN3O2	006996-15-2	38





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

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

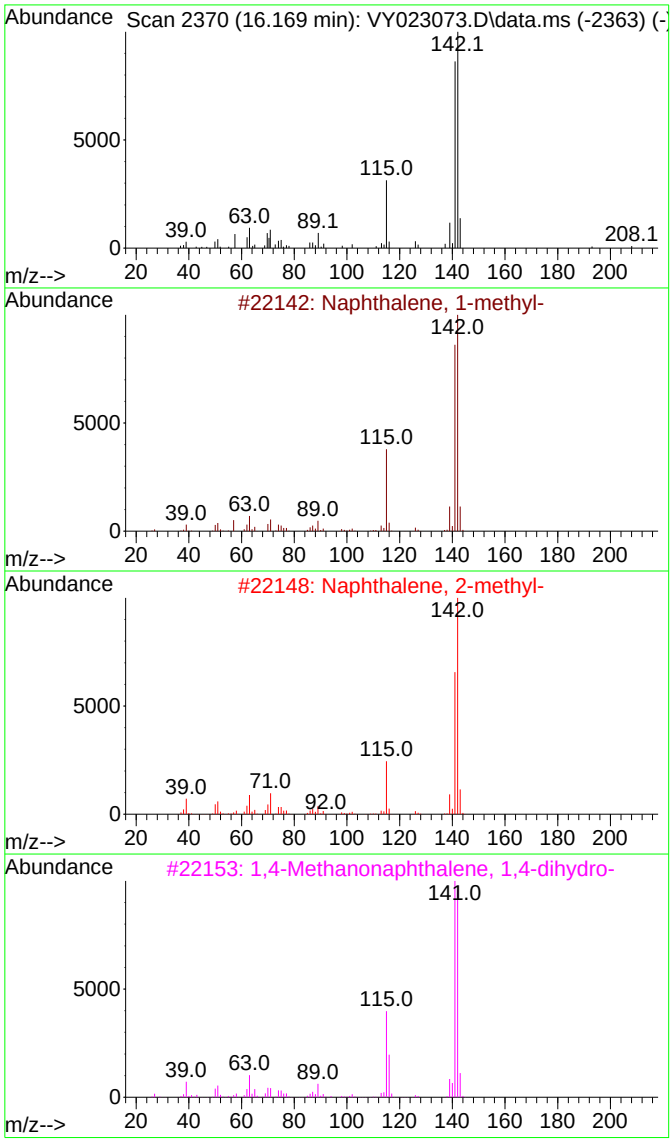
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

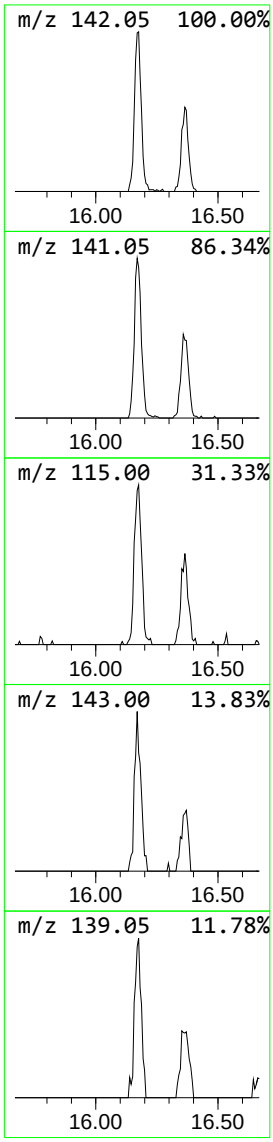
****

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.169	7.05 ug/l	58242	1,4-Dichlorobenzene-d4	13.340

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
3	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	94
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Naphthalene, 1-(2-hydroxypropyl)	186	C13H14O	027653-13-0	64





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-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
3-Cyclohexyl-1-...	2.123	5.4	ug/l	48960	1	7.707	456479	50.0
Naphthalene, 1-...	16.169	7.0	ug/l	58242	4	13.340	412886	50.0

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-WRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-11RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.93 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
VY023090.D	1	08/14/25 13:13	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.30	U	0.95	3.30	4.20	ug/Kg
74-87-3	Chloromethane	2.10	U	0.95	2.10	4.20	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	0.66	2.10	4.20	ug/Kg
74-83-9	Bromomethane	3.30	U	0.89	3.30	4.20	ug/Kg
75-00-3	Chloroethane	2.10	U	1.00	2.10	4.20	ug/Kg
75-69-4	Trichlorofluoromethane	3.30	U	1.00	3.30	4.20	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10	U	0.88	2.10	4.20	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	0.83	2.10	4.20	ug/Kg
67-64-1	Acetone	16.6	U	3.90	16.6	20.8	ug/Kg
75-15-0	Carbon Disulfide	3.30	U	0.88	3.30	4.20	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.10	U	0.61	2.10	4.20	ug/Kg
79-20-9	Methyl Acetate	3.30	U	1.30	3.30	4.20	ug/Kg
75-09-2	Methylene Chloride	6.60	U	2.90	6.60	8.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.10	U	0.71	2.10	4.20	ug/Kg
75-34-3	1,1-Dichloroethane	2.10	U	0.66	2.10	4.20	ug/Kg
110-82-7	Cyclohexane	2.10	U	0.66	2.10	4.20	ug/Kg
78-93-3	2-Butanone	16.6	U	5.40	16.6	20.8	ug/Kg
56-23-5	Carbon Tetrachloride	2.10	U	0.81	2.10	4.20	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.10	U	0.62	2.10	4.20	ug/Kg
74-97-5	Bromochloromethane	3.30	U	0.96	3.30	4.20	ug/Kg
67-66-3	Chloroform	3.30	U	0.70	3.30	4.20	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	0.77	2.10	4.20	ug/Kg
108-87-2	Methylcyclohexane	2.10	U	0.76	2.10	4.20	ug/Kg
71-43-2	Benzene	2.10	U	0.66	2.10	4.20	ug/Kg
107-06-2	1,2-Dichloroethane	2.10	U	0.66	2.10	4.20	ug/Kg
79-01-6	Trichloroethene	2.10	U	0.67	2.10	4.20	ug/Kg
78-87-5	1,2-Dichloropropane	2.10	U	0.76	2.10	4.20	ug/Kg
75-27-4	Bromodichloromethane	2.10	U	0.65	2.10	4.20	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10.4	U	3.00	10.4	20.8	ug/Kg
108-88-3	Toluene	2.10	U	0.65	2.10	4.20	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-WRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-11RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.93 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
VY023090.D	1	08/14/25 13:13	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.10	U	0.54	2.10	4.20	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.10	U	0.52	2.10	4.20	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.10	U	0.76	2.10	4.20	ug/Kg
591-78-6	2-Hexanone	10.4	U	3.10	10.4	20.8	ug/Kg
124-48-1	Dibromochloromethane	2.10	U	0.72	2.10	4.20	ug/Kg
106-93-4	1,2-Dibromoethane	2.10	U	0.73	2.10	4.20	ug/Kg
127-18-4	Tetrachloroethene	2.10	U	0.87	2.10	4.20	ug/Kg
108-90-7	Chlorobenzene	2.10	U	0.76	2.10	4.20	ug/Kg
100-41-4	Ethyl Benzene	2.10	U	0.56	2.10	4.20	ug/Kg
179601-23-1	m/p-Xylenes	4.20	U	1.00	4.20	8.30	ug/Kg
95-47-6	o-Xylene	2.10	U	0.68	2.10	4.20	ug/Kg
100-42-5	Styrene	2.10	U	0.59	2.10	4.20	ug/Kg
75-25-2	Bromoform	2.10	U	0.71	2.10	4.20	ug/Kg
98-82-8	Isopropylbenzene	2.10	U	0.65	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	1.40	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	3.30	U	1.50	3.30	4.20	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.30	U	2.50	3.30	4.20	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	2.60	3.30	4.20	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	38.6		71 - 136		77%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		78 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	46.4		85 - 116		93%	SPK: 50
460-00-4	4-Bromofluorobenzene	24.8	*	79 - 119		50%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	64700	7.707				
540-36-3	1,4-Difluorobenzene	91300	8.615				
3114-55-4	Chlorobenzene-d5	57700	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	13400	13.346				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	84SB-WRE	SDG No.:	Q2819
Lab Sample ID:	Q2819-11RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.8
Sample Wt/Vol:	6.93 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
VY023090.D	1	08/14/25 13:13	VY081425

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\VY081425\
Data File : VY023090.D
Acq On : 14 Aug 2025 13:13
Operator : SY/MD
Sample : Q2819-11RE
Misc : 6.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-WRE

Quant Time: Aug 14 14:47:58 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

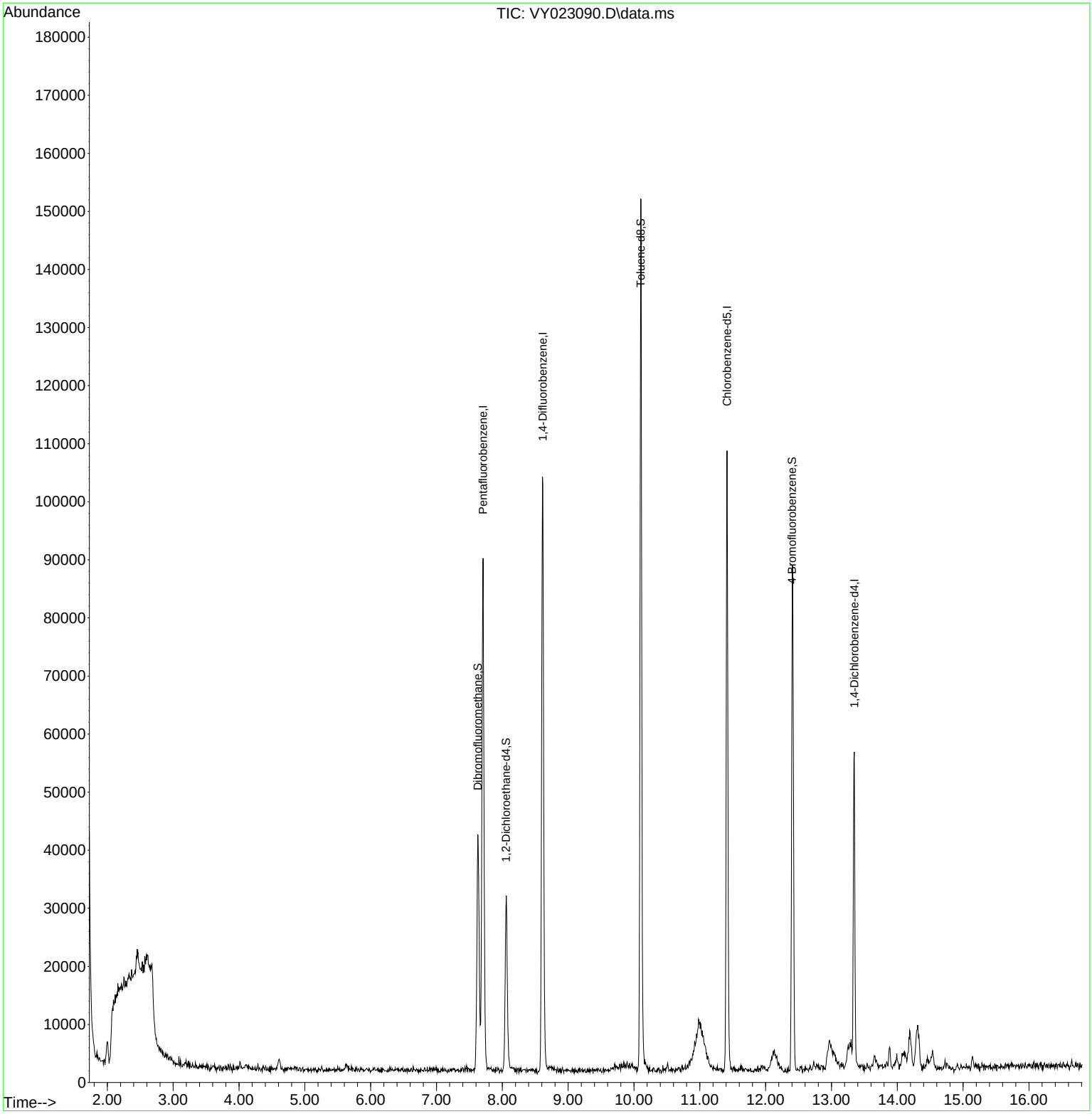
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	64668	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	91288	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	57705	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	13403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	23814	38.638	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 77.280%			
35) Dibromofluoromethane	7.628	113	28787	52.700	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.400%			
50) Toluene-d8	10.103	98	99008	46.397	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 92.800%			
62) 4-Bromofluorobenzene	12.401	95	17048	24.842	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 49.680%			
Target Compounds						Qvalue

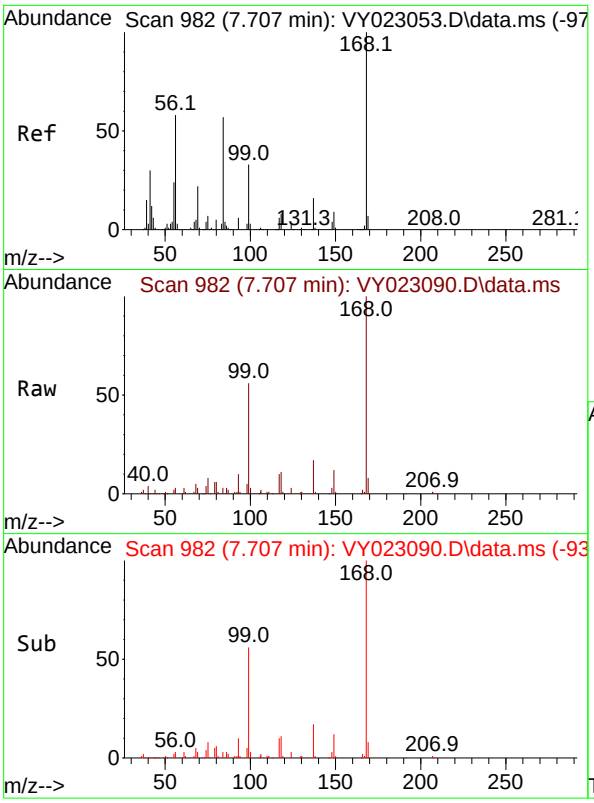
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023090.D
Acq On : 14 Aug 2025 13:13
Operator : SY/MD
Sample : Q2819-11RE
Misc : 6.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
84SB-WRE

Quant Time: Aug 14 14:47:58 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



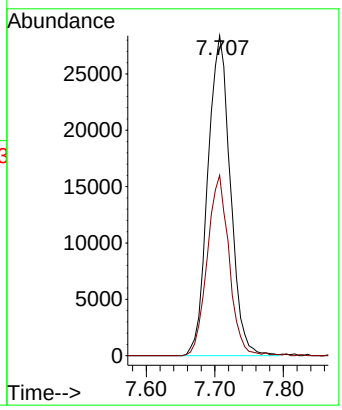


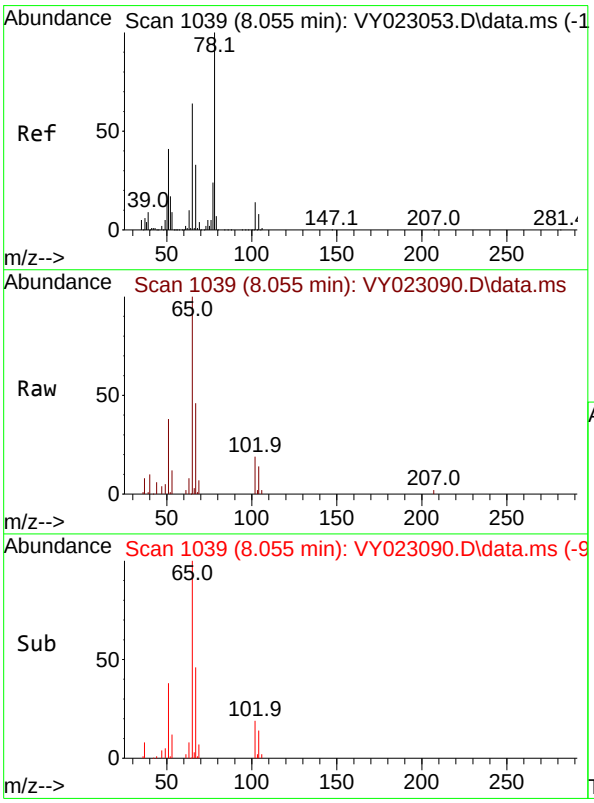
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Instrument :
MSVOA_Y
ClientSampleId :
84SB-WRE

Tgt Ion:168 Resp: 64668

Ion	Ratio	Lower	Upper
168	100		
99	56.3	42.8	64.2

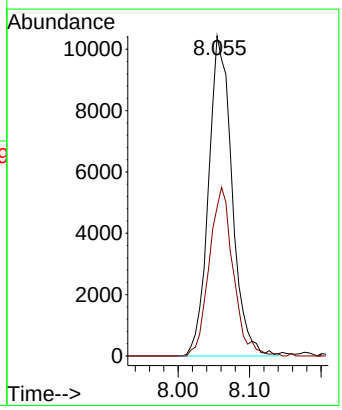


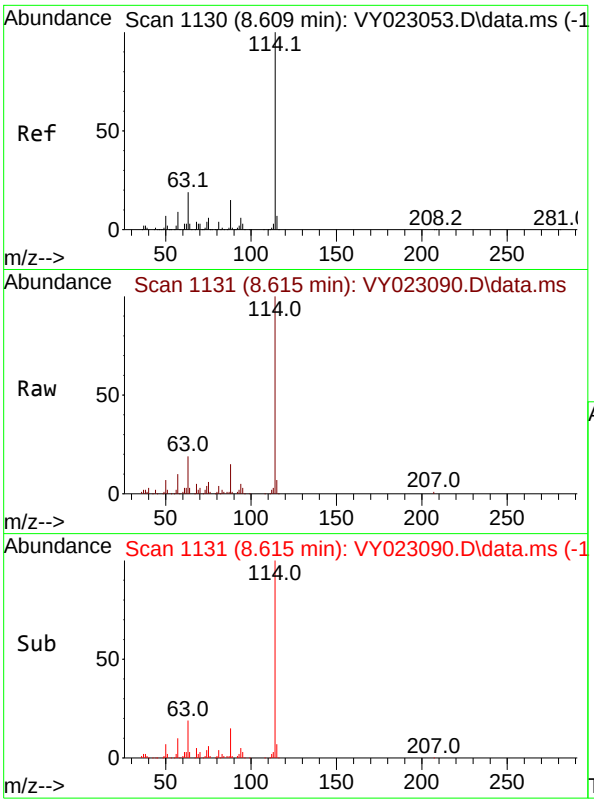


#33
1,2-Dichloroethane-d4
Concen: 38.638 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion: 65 Resp: 23814

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.8



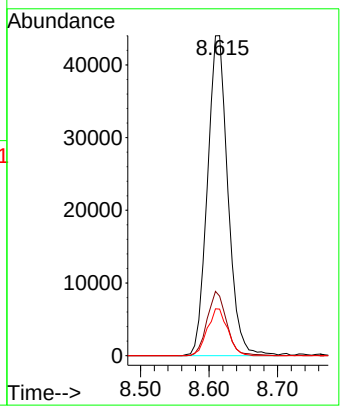


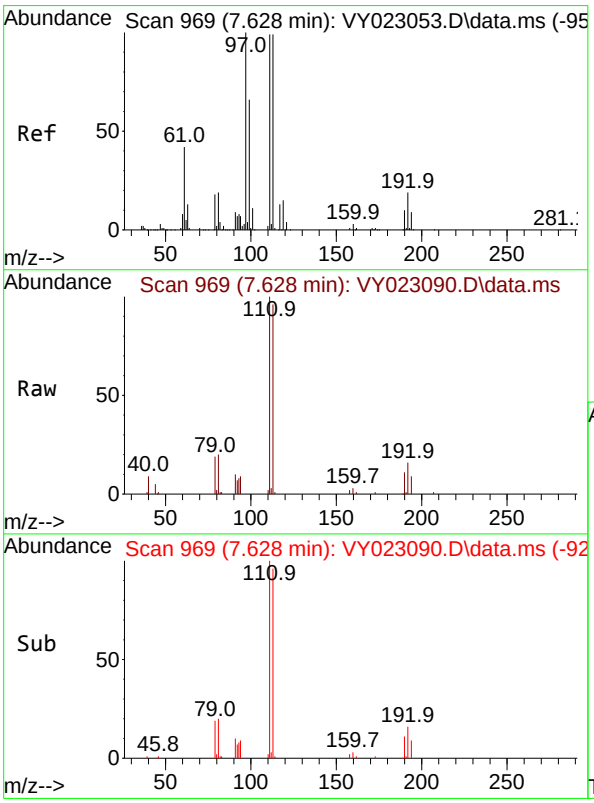
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Instrument :
MSVOA_Y
ClientSampleId :
84SB-WRE

Tgt Ion:114 Resp: 91288

Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.4
88	14.5	0.0	30.0

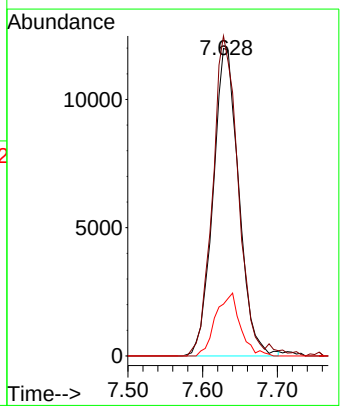


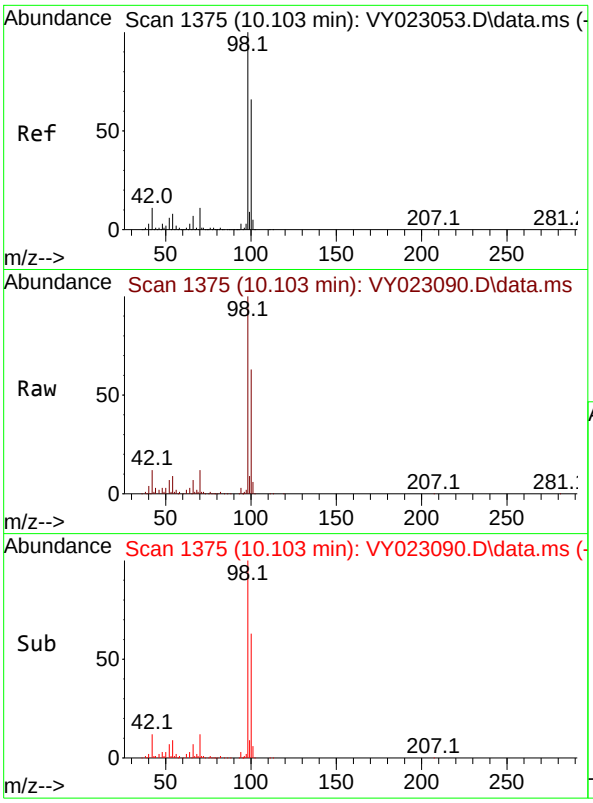


#35
Dibromofluoromethane
Concen: 52.700 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion:113 Resp: 28787

Ion	Ratio	Lower	Upper
113	100		
111	104.3	81.1	121.7
192	19.5	16.2	24.4



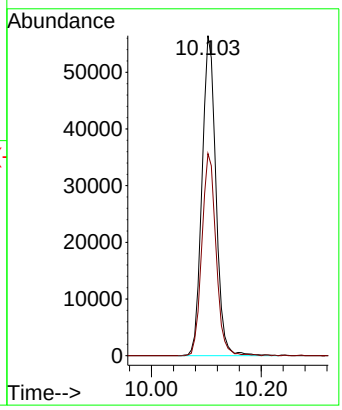


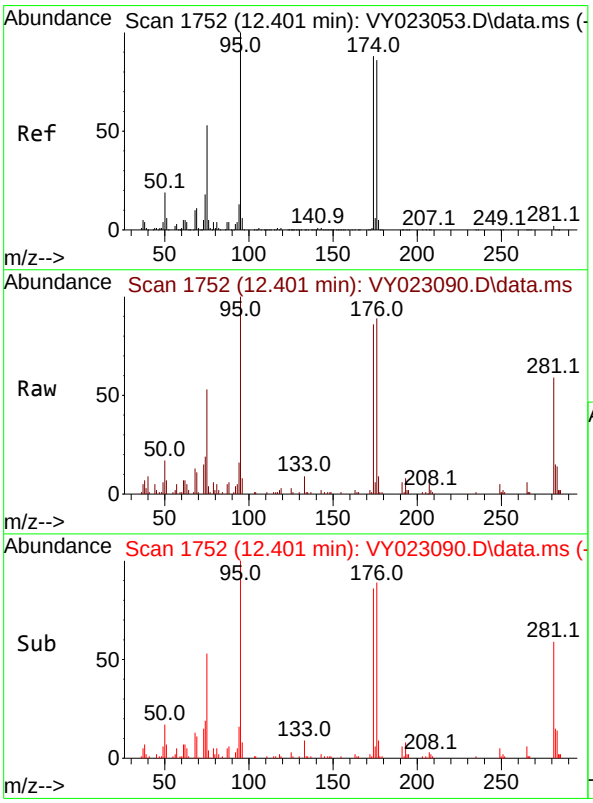
#50
Toluene-d8
Concen: 46.397 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Instrument :
MSVOA_Y
ClientSampleId :
84SB-WRE

Tgt Ion: 98 Resp: 99008

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.3	78.5

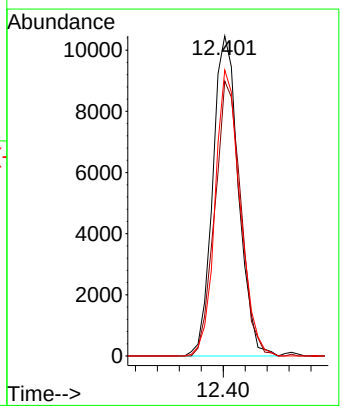


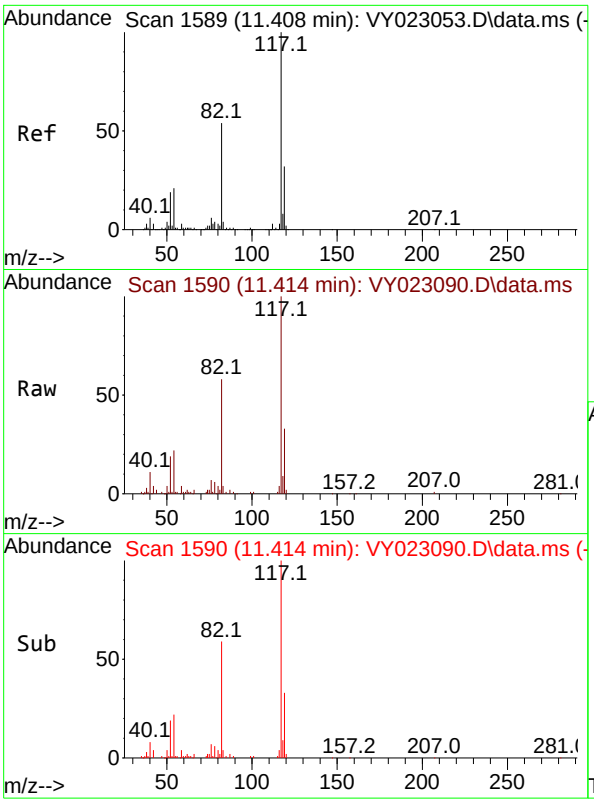


#62
4-Bromofluorobenzene
Concen: 24.842 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion: 95 Resp: 17048

Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	171.6
176	86.9	0.0	167.6



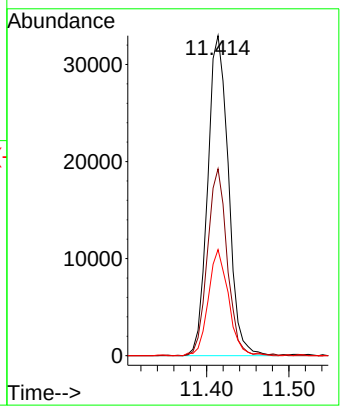


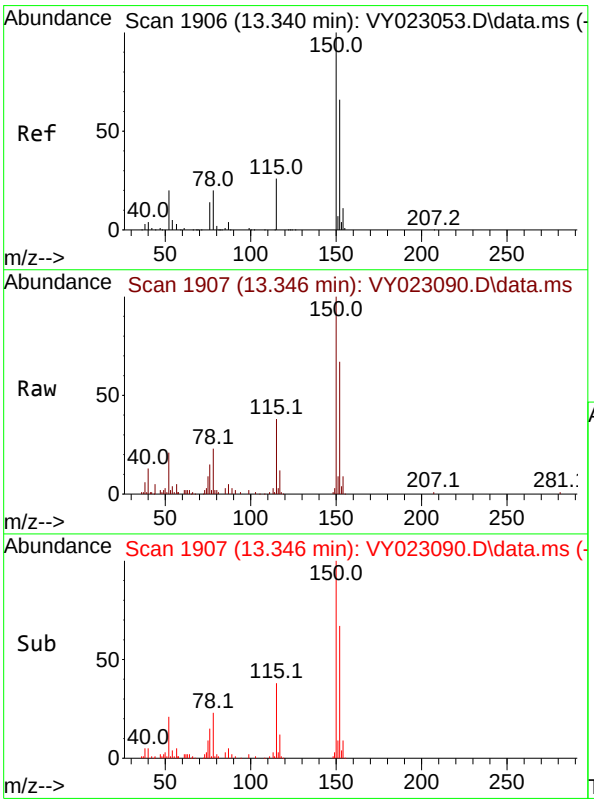
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Instrument :
MSVOA_Y
ClientSampleId :
84SB-WRE

Tgt Ion:117 Resp: 57705

Ion	Ratio	Lower	Upper
117	100		
82	58.2	43.4	65.0
119	33.2	25.6	38.4

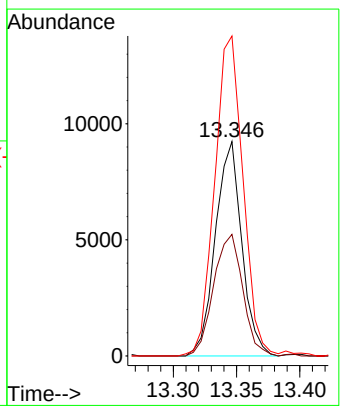




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion:152 Resp: 13403

Ion	Ratio	Lower	Upper
152	100		
115	62.5	28.2	84.6
150	159.5	0.0	348.0



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

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.4
Sample Wt/Vol:	6.51 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
VY023074.D	1	08/13/25 16:53	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.30	U	0.94	3.30	4.10	ug/Kg
74-87-3	Chloromethane	2.10	U	0.94	2.10	4.10	ug/Kg
75-01-4	Vinyl Chloride	2.10	U	0.65	2.10	4.10	ug/Kg
74-83-9	Bromomethane	3.30	U	0.88	3.30	4.10	ug/Kg
75-00-3	Chloroethane	2.10	U	1.00	2.10	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	3.30	U	1.00	3.30	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.10	U	0.87	2.10	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	2.10	U	0.82	2.10	4.10	ug/Kg
67-64-1	Acetone	16.4	U	3.90	16.4	20.6	ug/Kg
75-15-0	Carbon Disulfide	3.30	U	0.87	3.30	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.10	U	0.60	2.10	4.10	ug/Kg
79-20-9	Methyl Acetate	3.30	U	1.30	3.30	4.10	ug/Kg
75-09-2	Methylene Chloride	6.60	U	2.90	6.60	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.10	U	0.71	2.10	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	2.10	U	0.66	2.10	4.10	ug/Kg
110-82-7	Cyclohexane	2.10	U	0.65	2.10	4.10	ug/Kg
78-93-3	2-Butanone	16.4	U	5.40	16.4	20.6	ug/Kg
56-23-5	Carbon Tetrachloride	2.10	U	0.80	2.10	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.10	U	0.62	2.10	4.10	ug/Kg
74-97-5	Bromochloromethane	3.30	U	0.95	3.30	4.10	ug/Kg
67-66-3	Chloroform	3.30	U	0.69	3.30	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.10	U	0.76	2.10	4.10	ug/Kg
108-87-2	Methylcyclohexane	2.10	U	0.75	2.10	4.10	ug/Kg
71-43-2	Benzene	2.10	U	0.65	2.10	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	2.10	U	0.65	2.10	4.10	ug/Kg
79-01-6	Trichloroethene	2.10	U	0.67	2.10	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	2.10	U	0.75	2.10	4.10	ug/Kg
75-27-4	Bromodichloromethane	2.10	U	0.64	2.10	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10.3	U	2.90	10.3	20.6	ug/Kg
108-88-3	Toluene	2.10	U	0.64	2.10	4.10	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.4
Sample Wt/Vol:	6.51 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
VY023074.D	1	08/13/25 16:53	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.10	U	0.53	2.10	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.10	U	0.51	2.10	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.10	U	0.76	2.10	4.10	ug/Kg
591-78-6	2-Hexanone	10.3	U	3.00	10.3	20.6	ug/Kg
124-48-1	Dibromochloromethane	2.10	U	0.72	2.10	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	2.10	U	0.72	2.10	4.10	ug/Kg
127-18-4	Tetrachloroethene	2.10	U	0.86	2.10	4.10	ug/Kg
108-90-7	Chlorobenzene	2.10	U	0.75	2.10	4.10	ug/Kg
100-41-4	Ethyl Benzene	2.10	U	0.55	2.10	4.10	ug/Kg
179601-23-1	m/p-Xylenes	4.10	U	1.00	4.10	8.20	ug/Kg
95-47-6	o-Xylene	2.10	U	0.67	2.10	4.10	ug/Kg
100-42-5	Styrene	2.10	U	0.58	2.10	4.10	ug/Kg
75-25-2	Bromoform	2.10	U	0.71	2.10	4.10	ug/Kg
98-82-8	Isopropylbenzene	2.10	U	0.64	2.10	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.10	U	1.00	2.10	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.10	U	1.40	2.10	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.10	U	1.30	2.10	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.10	U	1.20	2.10	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.30	U	1.50	3.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.30	U	2.40	3.30	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	2.60	3.30	4.10	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	62.1		71 - 136		124%	SPK: 50
1868-53-7	Dibromofluoromethane	53.7		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	52.3		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	490000	7.707				
540-36-3	1,4-Difluorobenzene	944000	8.609				
3114-55-4	Chlorobenzene-d5	839000	11.408				
3855-82-1	1,4-Dichlorobenzene-d4	345000	13.34				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-12	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	93.4
Sample Wt/Vol:	6.51 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
VY023074.D	1	08/13/25 16:53	VY081325

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\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-S

Quant Time: Aug 14 01:26:40 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

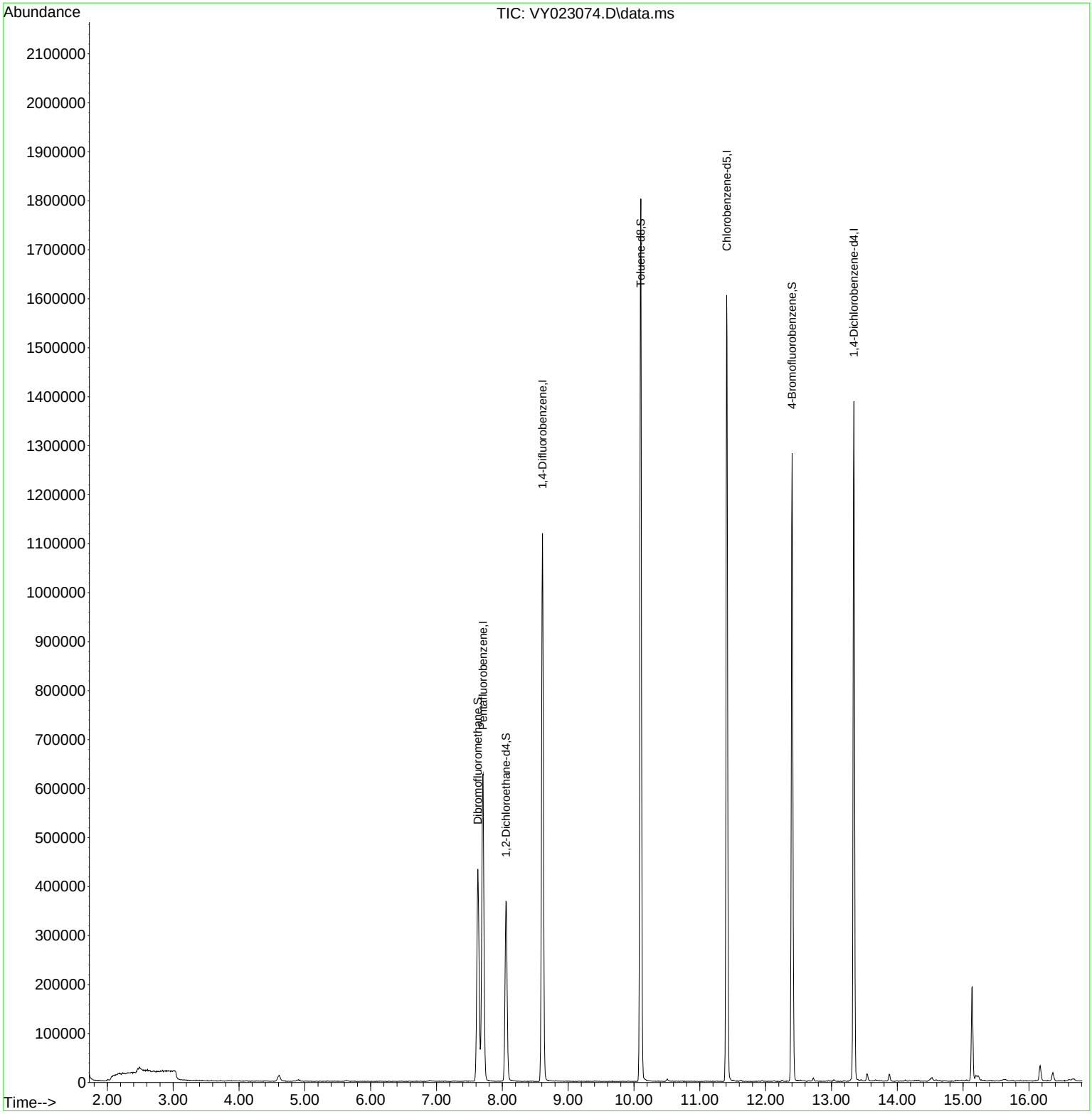
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	489566	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	943748	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	838550	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	344922	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	289607	62.069	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.140%			
35) Dibromofluoromethane	7.628	113	303187	53.689	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.380%			
50) Toluene-d8	10.103	98	1154374	52.327	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.660%			
62) 4-Bromofluorobenzene	12.401	95	344204	48.516	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.040%			
Target Compounds						Qvalue

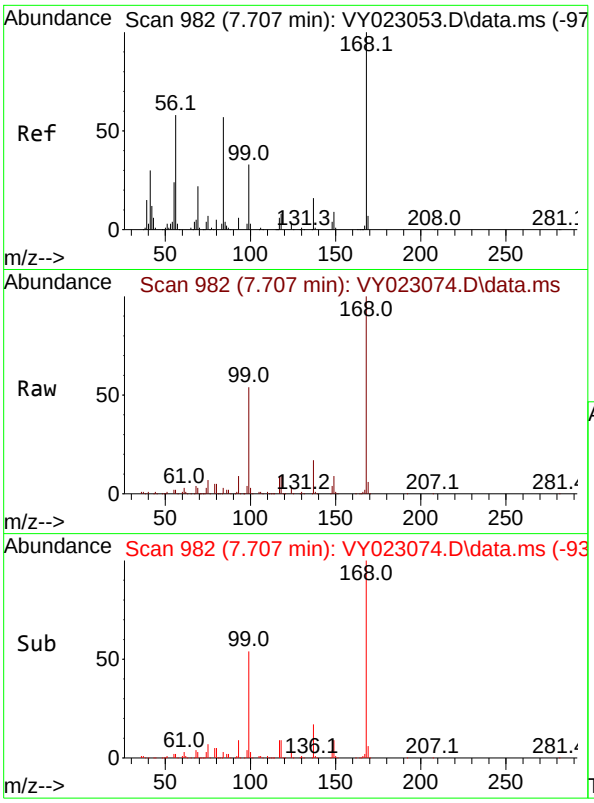
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-S

Quant Time: Aug 14 01:26:40 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



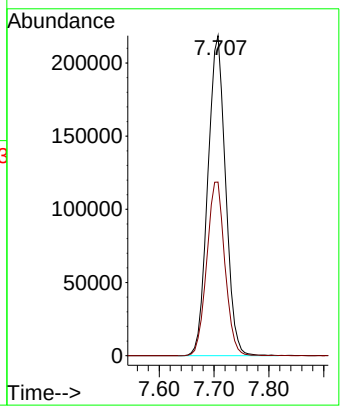


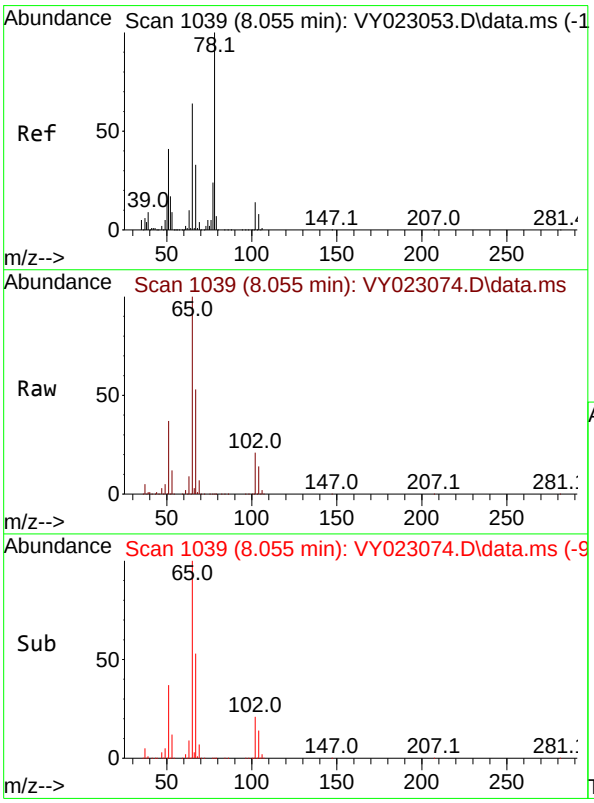
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
17M-S

Tgt Ion:168 Resp: 489566

Ion	Ratio	Lower	Upper
168	100		
99	54.3	42.8	64.2

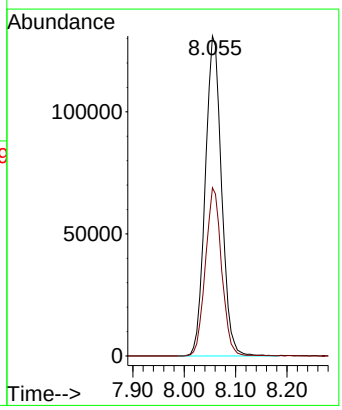


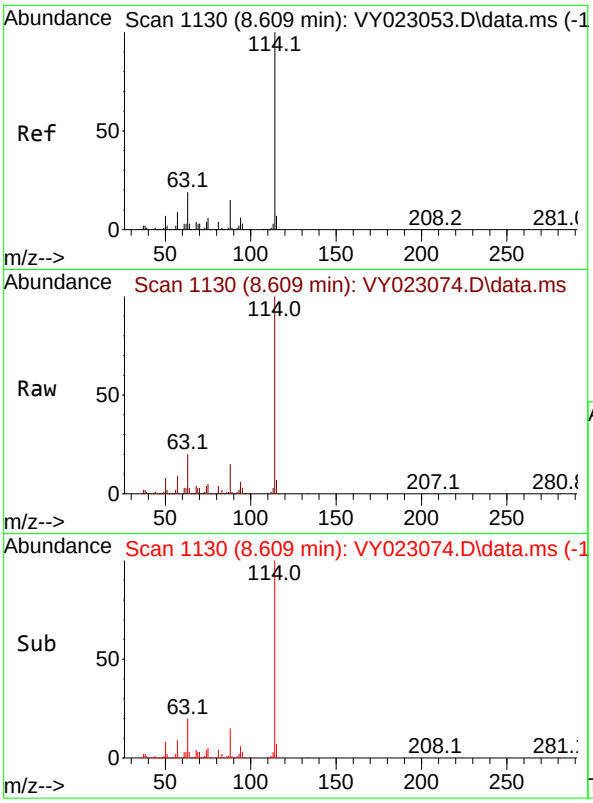


#33
1,2-Dichloroethane-d4
Concen: 62.069 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion: 65 Resp: 289607

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.8



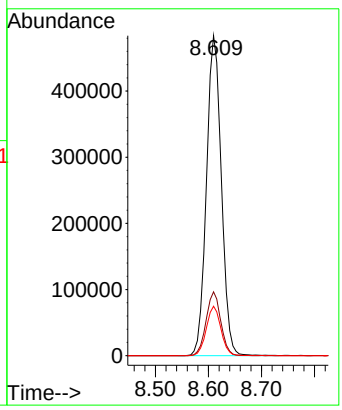


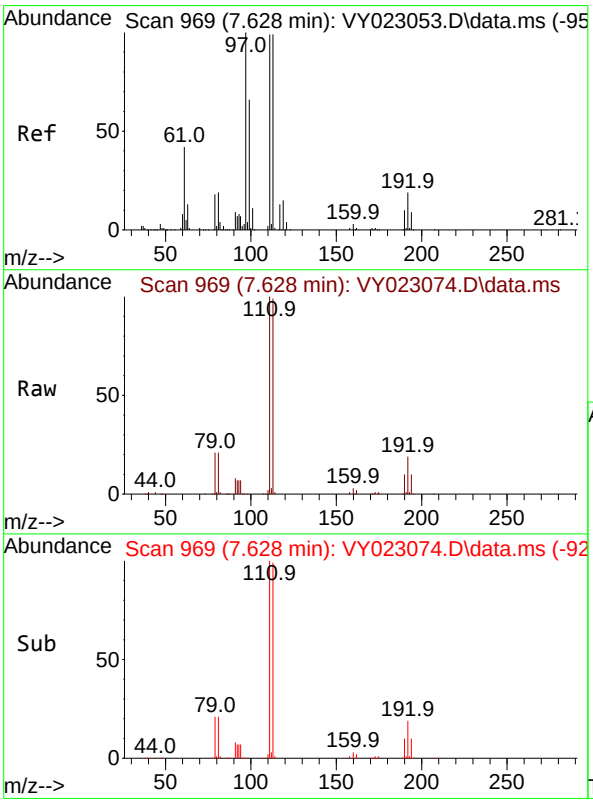
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
17M-S

Tgt Ion:114 Resp: 943748

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	38.4
88	15.5	0.0	30.0

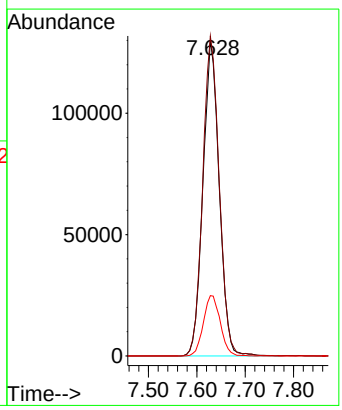


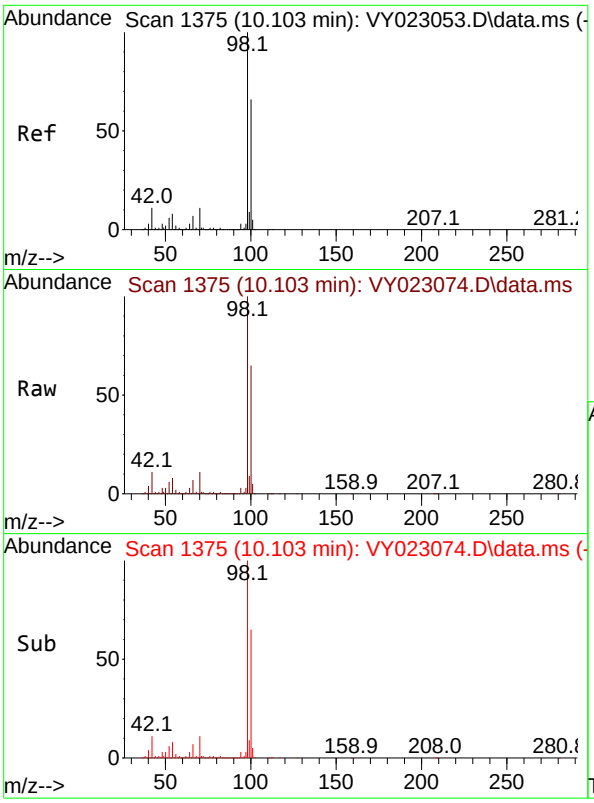


#35
Dibromofluoromethane
Concen: 53.689 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion:113 Resp: 303187

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.1	121.7
192	19.9	16.2	24.4



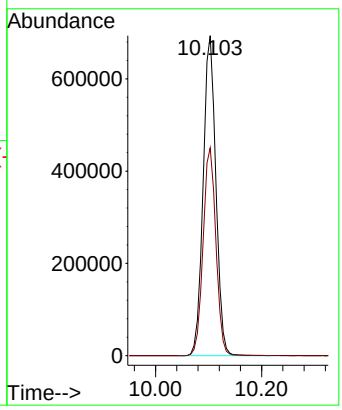


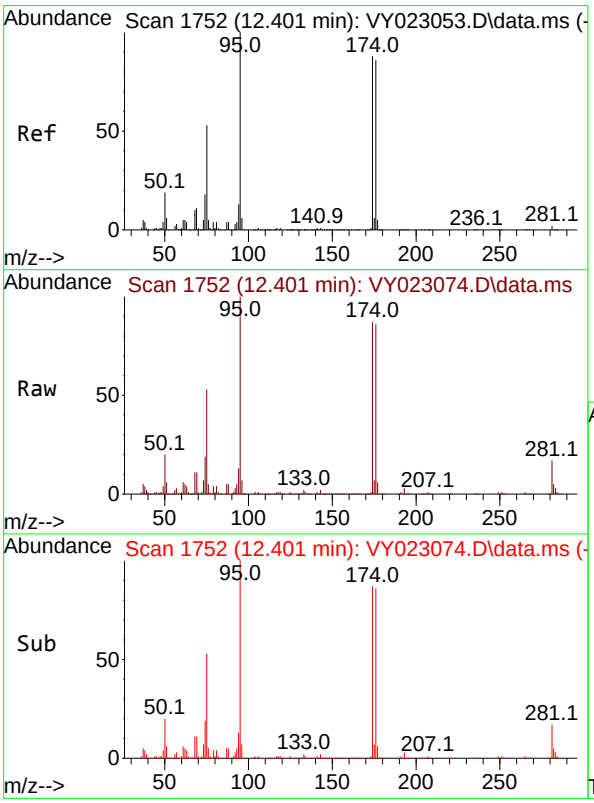
#50
Toluene-d8
Concen: 52.327 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
17M-S

Tgt Ion: 98 Resp: 1154374

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.3	78.5

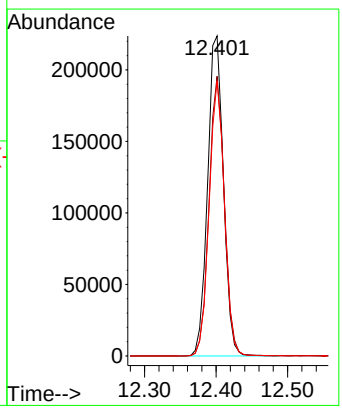


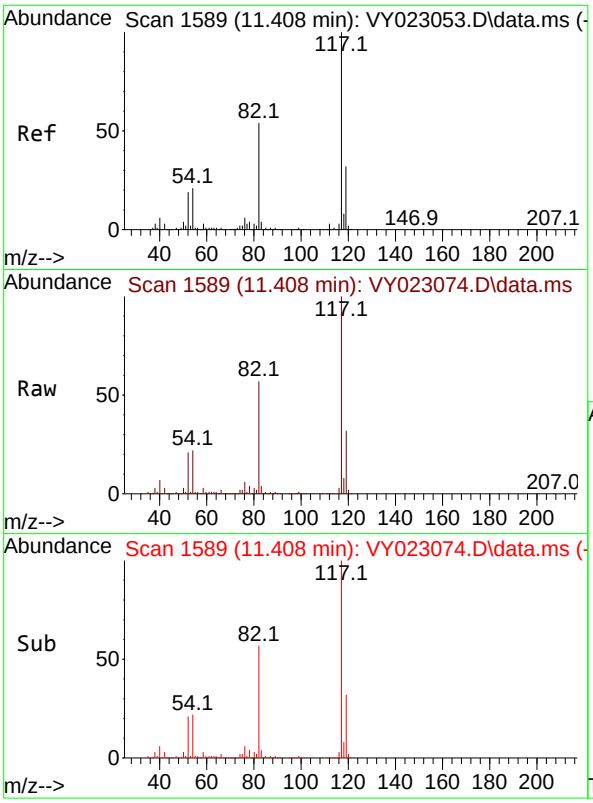


#62
4-Bromofluorobenzene
Concen: 48.516 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion: 95 Resp: 344204

Ion	Ratio	Lower	Upper
95	100		
174	85.0	0.0	171.6
176	82.7	0.0	167.6



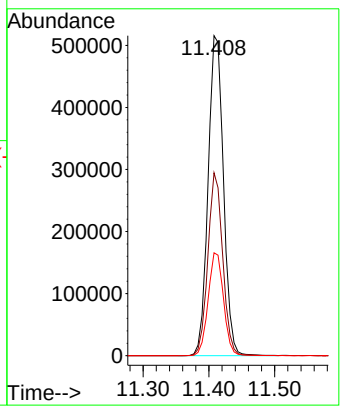


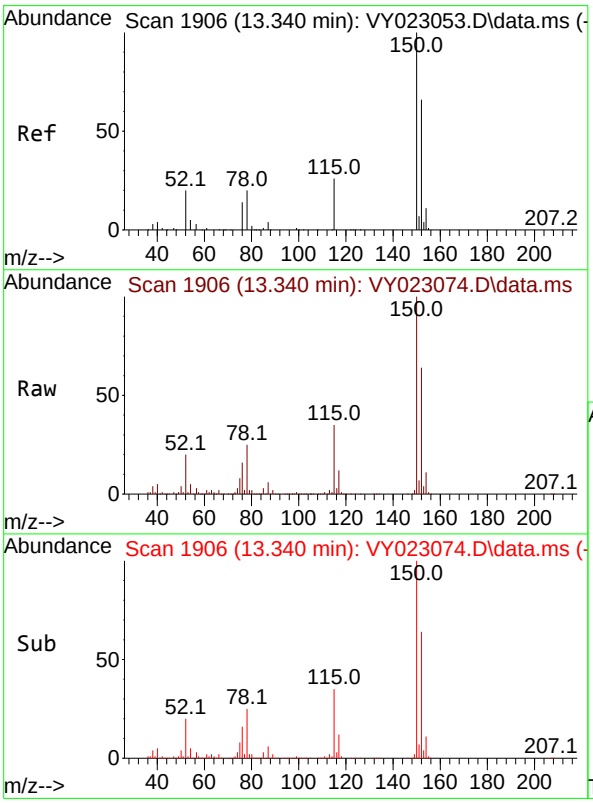
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Instrument :
MSVOA_Y
ClientSampleId :
17M-S

Tgt Ion:117 Resp: 838550

Ion	Ratio	Lower	Upper
117	100		
82	57.2	43.4	65.0
119	32.2	25.6	38.4

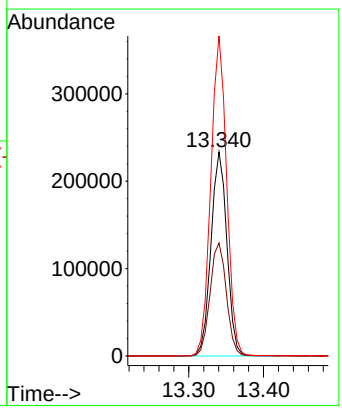




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion:152 Resp: 344922

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.2	84.6
150	156.6	0.0	348.0



Sample Results: **VY023074.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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: VY023074.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	464	474	483	rBV3	11990	35538	1.17%	0.226%
2	7.628	959	969	975	rBV	433091	1014694	33.39%	6.441%
3	7.707	975	982	992	rVB	625241	1433843	47.18%	9.101%
4	8.055	1030	1039	1053	rBV	367164	824808	27.14%	5.236%
5	8.609	1119	1130	1144	rBV	1119201	2174482	71.55%	13.803%
6	10.103	1366	1375	1390	rBV	1801600	3039109	100.00%	19.291%
7	11.408	1580	1589	1602	rBV	1605417	2576872	84.79%	16.357%
8	12.401	1743	1752	1767	rBV2	1282066	2120377	69.77%	13.459%
9	13.340	1892	1906	1915	rBV	1388338	2108370	69.37%	13.383%
10	15.139	2194	2201	2207	rBV	193188	330126	10.86%	2.096%
11	16.169	2365	2370	2379	rVB	30752	58956	1.94%	0.374%
12	16.364	2393	2402	2410	rVB	17360	36810	1.21%	0.234%

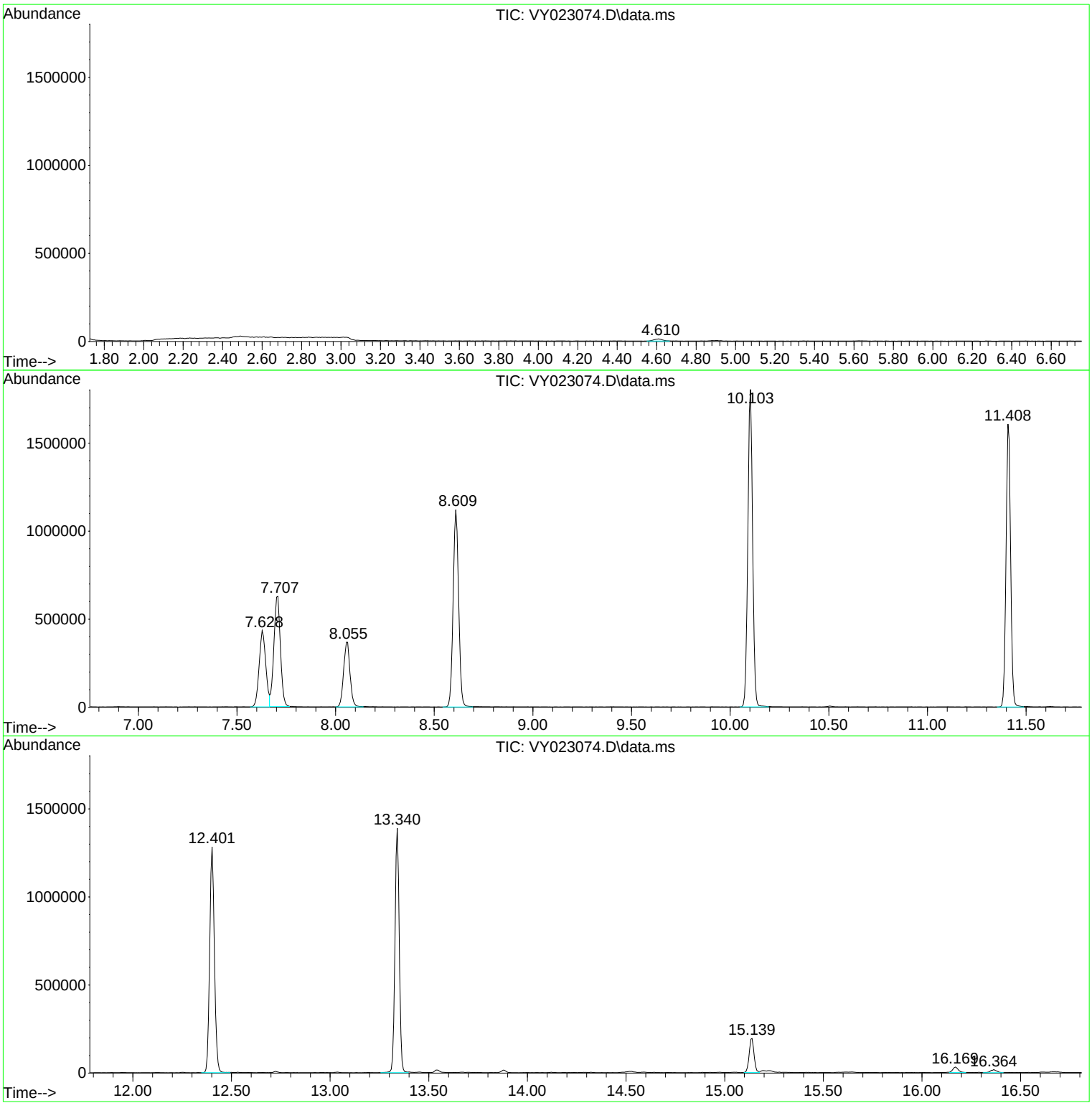
Sum of corrected areas: 15753985

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.51 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
VY023075.D	1	08/13/25 17:17	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.70	U	1.00	3.70	4.60	ug/Kg
74-87-3	Chloromethane	2.30	U	1.00	2.30	4.60	ug/Kg
75-01-4	Vinyl Chloride	2.30	U	0.72	2.30	4.60	ug/Kg
74-83-9	Bromomethane	3.70	U	0.98	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	0.97	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	4.30	18.4	22.9	ug/Kg
75-15-0	Carbon Disulfide	3.70	U	0.97	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	7.30	U	3.20	7.30	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	0.73	2.30	4.60	ug/Kg
110-82-7	Cyclohexane	2.30	U	0.72	2.30	4.60	ug/Kg
78-93-3	2-Butanone	18.4	U	6.00	18.4	22.9	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	0.85	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	0.72	2.30	4.60	ug/Kg
107-06-2	1,2-Dichloroethane	2.30	U	0.72	2.30	4.60	ug/Kg
79-01-6	Trichloroethene	2.30	U	0.74	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	22.9	ug/Kg
108-88-3	Toluene	2.30	U	0.72	2.30	4.60	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.51 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
VY023075.D	1	08/13/25 17:17	VY081325

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	0.84	2.30	4.60	ug/Kg
591-78-6	2-Hexanone	11.5	U	3.40	11.5	22.9	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	0.96	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	0.61	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	0.75	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	62.5		71 - 136		125%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	51.9		85 - 116		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	658000	7.707				
540-36-3	1,4-Difluorobenzene	1320000	8.609				
3114-55-4	Chlorobenzene-d5	1170000	11.408				
3855-82-1	1,4-Dichlorobenzene-d4	488000	13.34				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-13	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.7
Sample Wt/Vol:	6.51 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
VY023075.D	1	08/13/25 17:17	VY081325

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\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-E

Quant Time: Aug 14 01:27:01 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

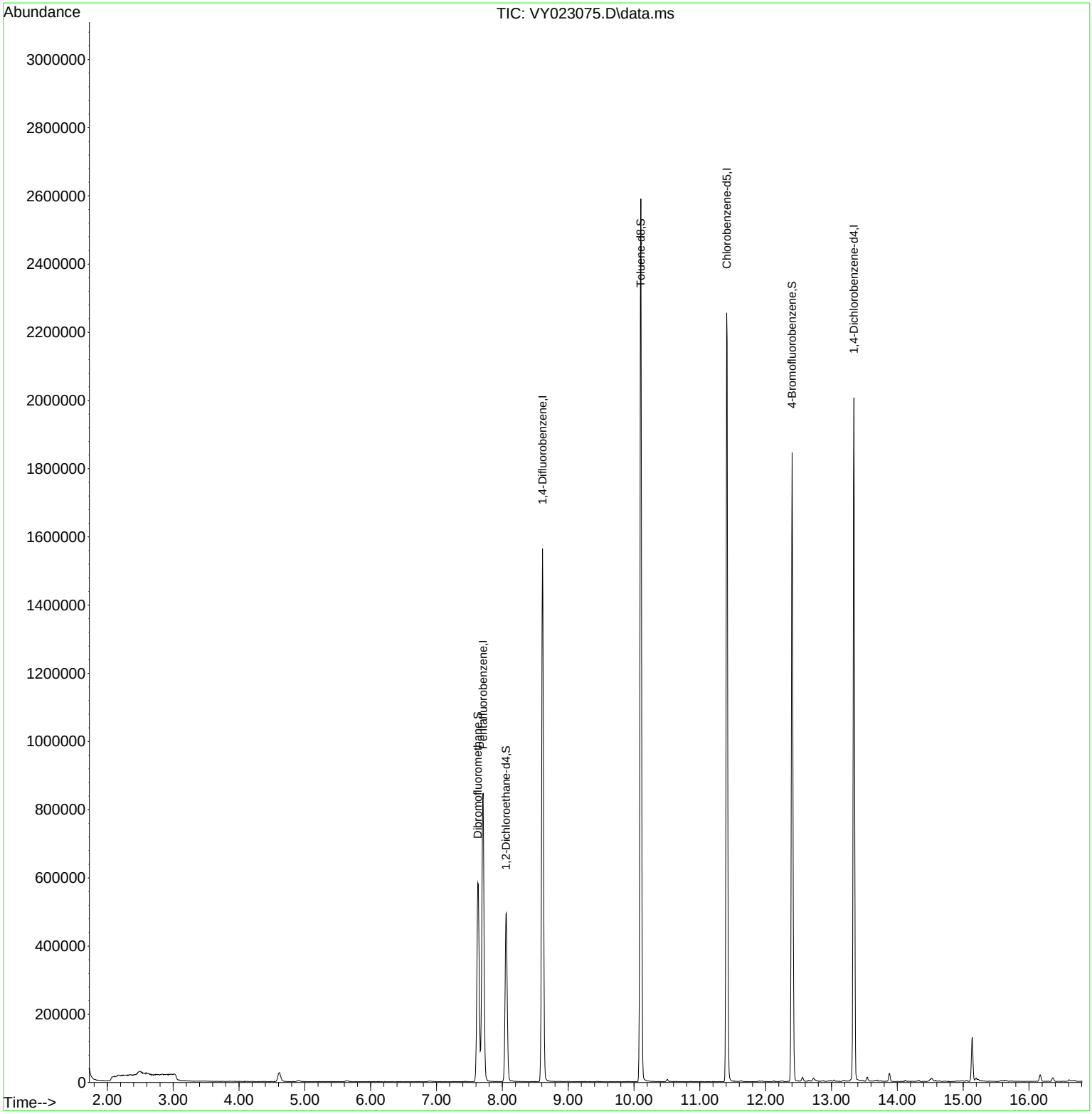
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	658128	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1324720	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	1172539	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	487544	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	392233	62.533	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 125.060%			
35) Dibromofluoromethane	7.628	113	422956	53.358	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.720%			
50) Toluene-d8	10.103	98	1608522	51.944	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.880%			
62) 4-Bromofluorobenzene	12.401	95	489471	49.150	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.300%			
Target Compounds						Qvalue

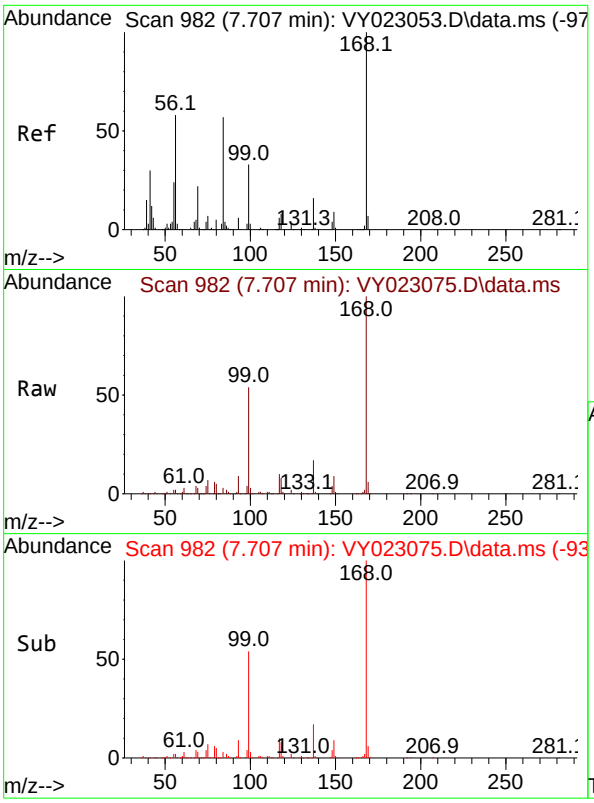
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-E

Quant Time: Aug 14 01:27:01 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



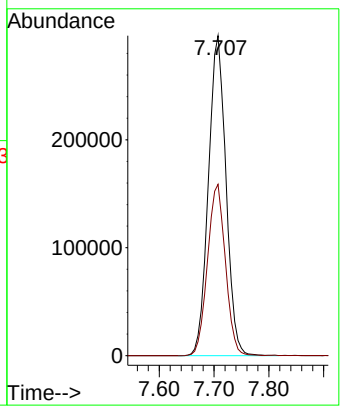


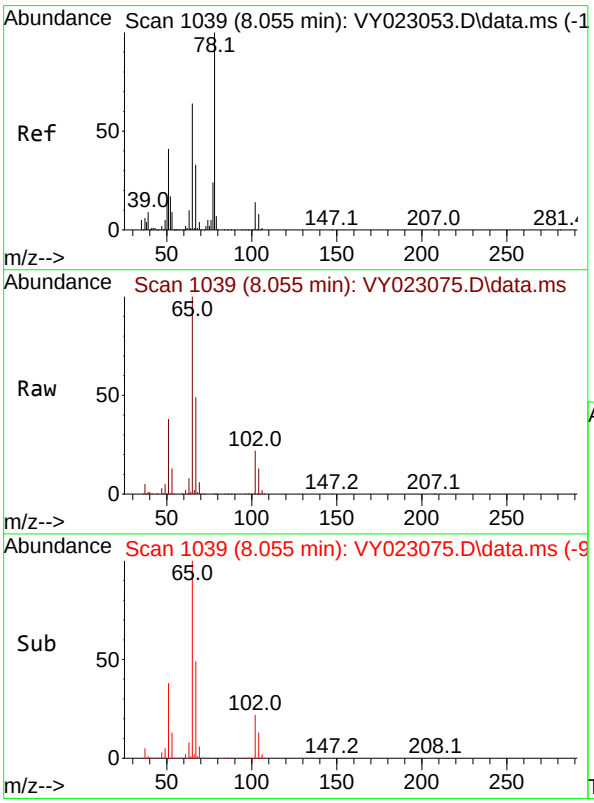
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Instrument :
MSVOA_Y
ClientSampleId :
17M-E

Tgt Ion:168 Resp: 658128

Ion	Ratio	Lower	Upper
168	100		
99	53.5	42.8	64.2

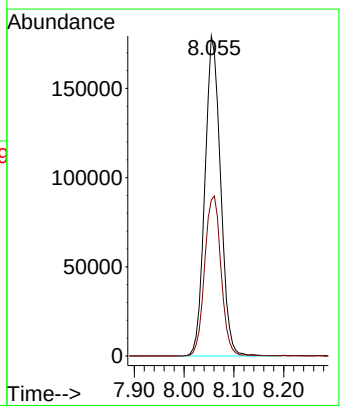


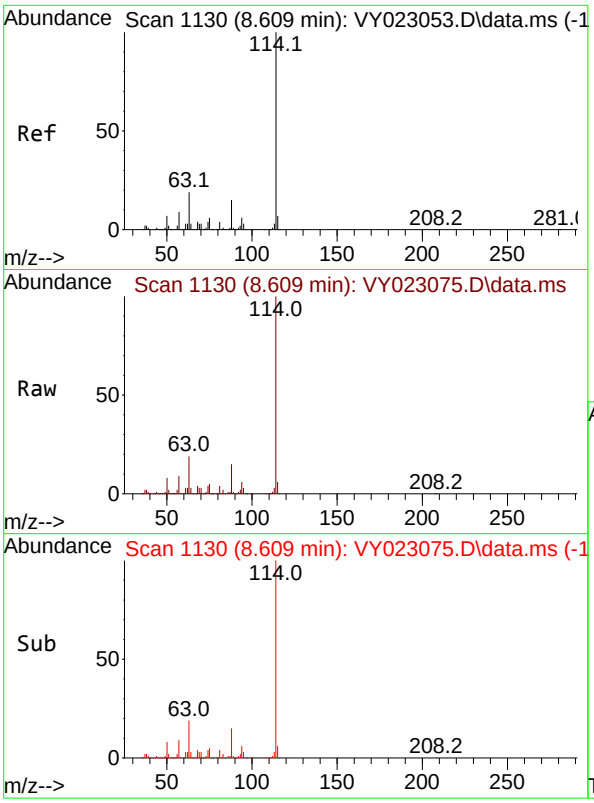


#33
1,2-Dichloroethane-d4
Concen: 62.533 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion: 65 Resp: 392233

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.8



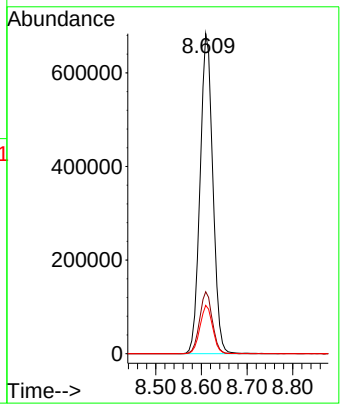


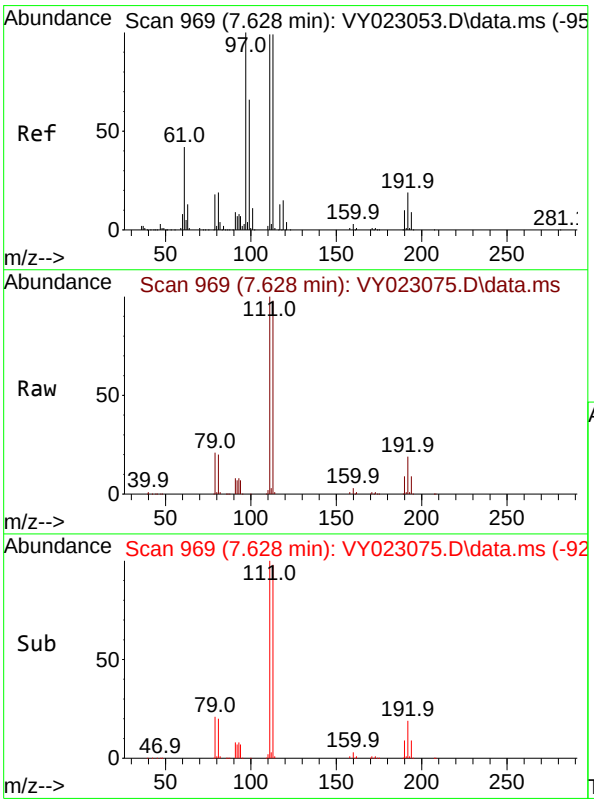
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Instrument :
MSVOA_Y
ClientSampleId :
17M-E

Tgt Ion:114 Resp: 1324720

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.4
88	15.1	0.0	30.0

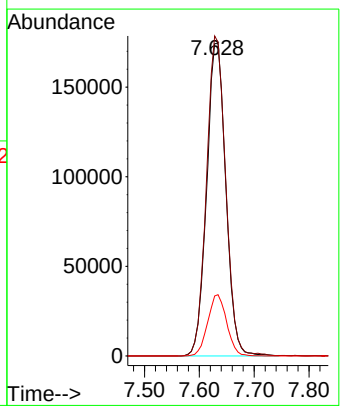


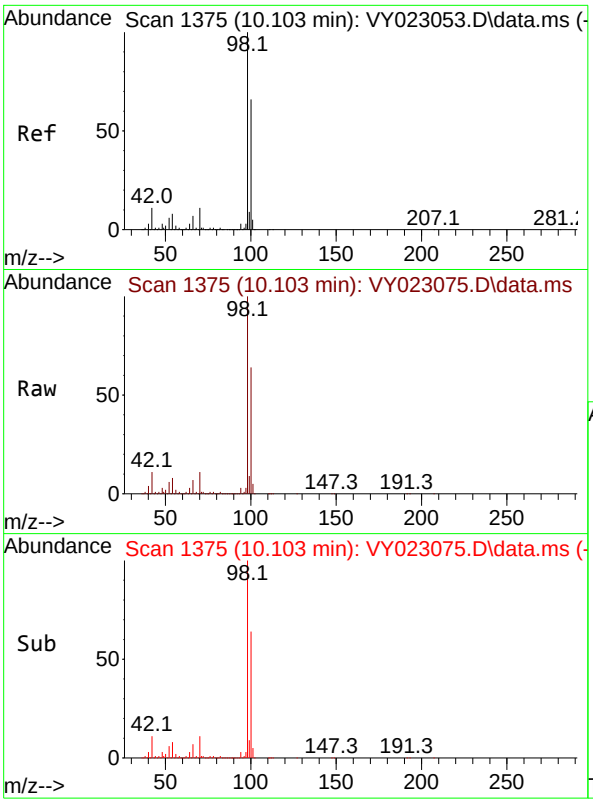


#35
Dibromofluoromethane
Concen: 53.358 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion:113 Resp: 422956

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.1	121.7
192	19.4	16.2	24.4



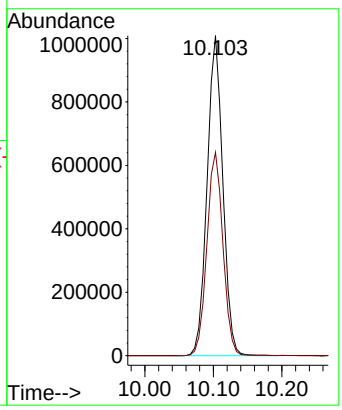


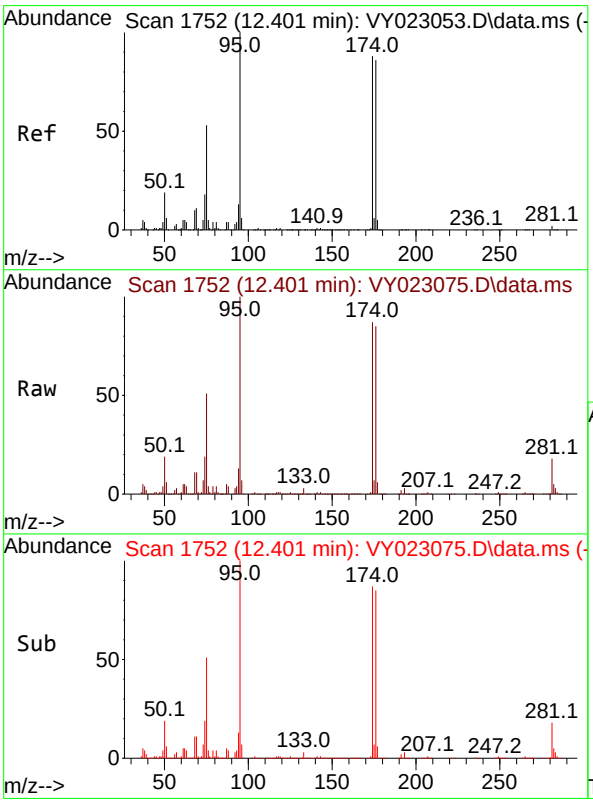
#50
Toluene-d8
Concen: 51.944 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Instrument :
MSVOA_Y
ClientSampleId :
17M-E

Tgt Ion: 98 Resp: 1608522

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5

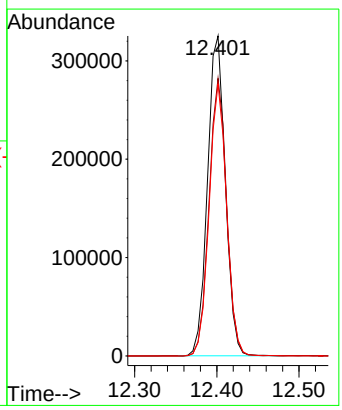


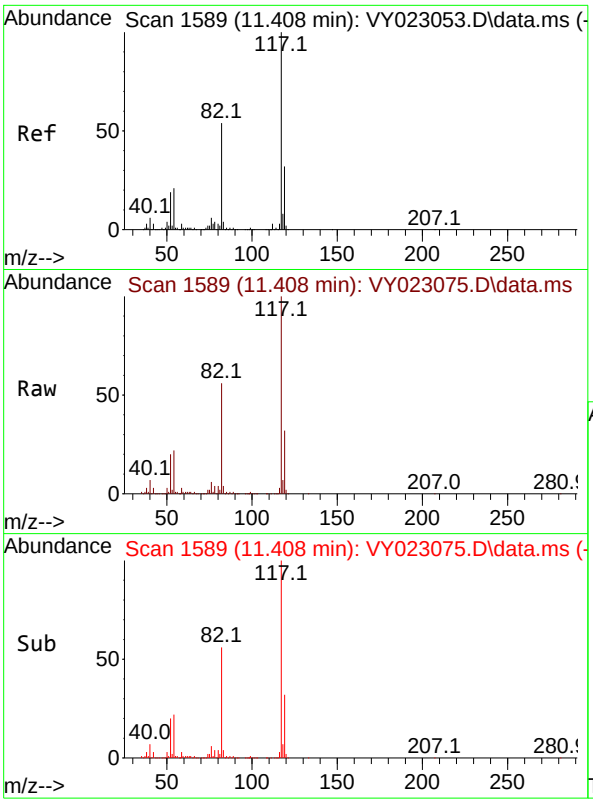


#62
4-Bromofluorobenzene
Concen: 49.150 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion: 95 Resp: 489471

Ion	Ratio	Lower	Upper
95	100		
174	86.2	0.0	171.6
176	83.3	0.0	167.6



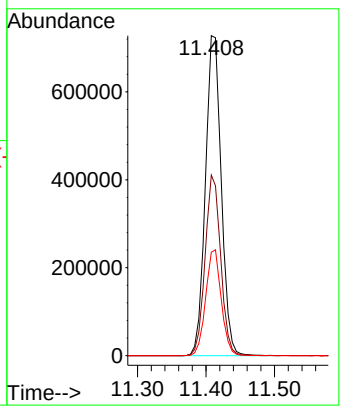


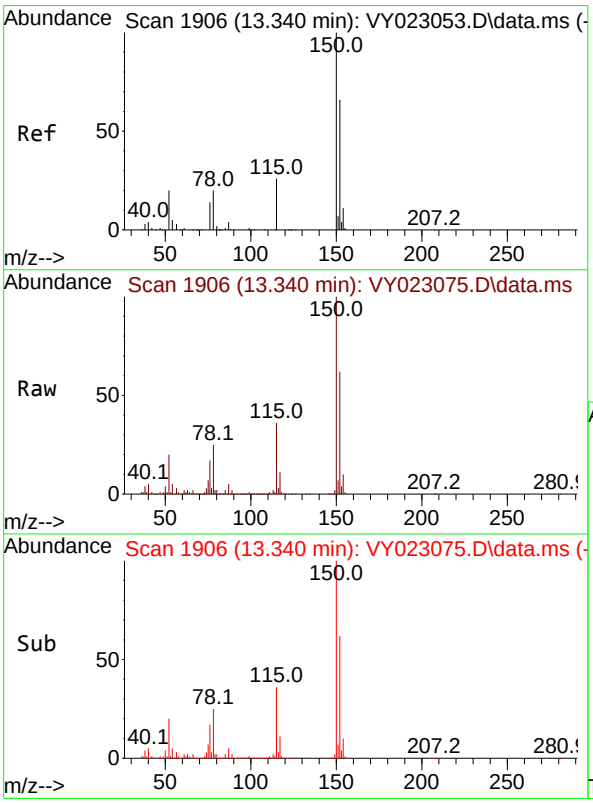
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Instrument :
MSVOA_Y
ClientSampleId :
17M-E

Tgt Ion:117 Resp: 1172539

Ion	Ratio	Lower	Upper
117	100		
82	56.5	43.4	65.0
119	32.3	25.6	38.4

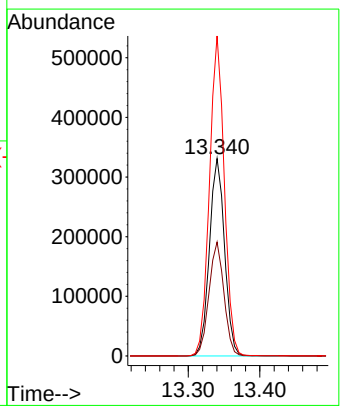




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion:152 Resp: 487544

Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.2	84.6
150	158.5	0.0	348.0



Sample Results: **VY023075.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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: VY023075.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	rVB3	26213	83128	1.96%	0.384%
2	7.628	957	969	975	rBV	582871	1402355	33.11%	6.475%
3	7.707	975	982	995	rVB	844340	1928118	45.53%	8.903%
4	8.061	1030	1040	1051	rBV	493923	1108714	26.18%	5.120%
5	8.609	1120	1130	1146	rBV	1562882	3021888	71.36%	13.954%
6	10.103	1366	1375	1390	rBV	2589819	4234899	100.00%	19.555%
7	11.408	1582	1589	1603	rBV	2254016	3604732	85.12%	16.645%
8	12.401	1744	1752	1761	rBV2	1843932	3068500	72.46%	14.169%
9	13.340	1894	1906	1921	rBV	2004190	2984250	70.47%	13.780%
10	15.139	2194	2201	2207	rBV	129503	219939	5.19%	1.016%

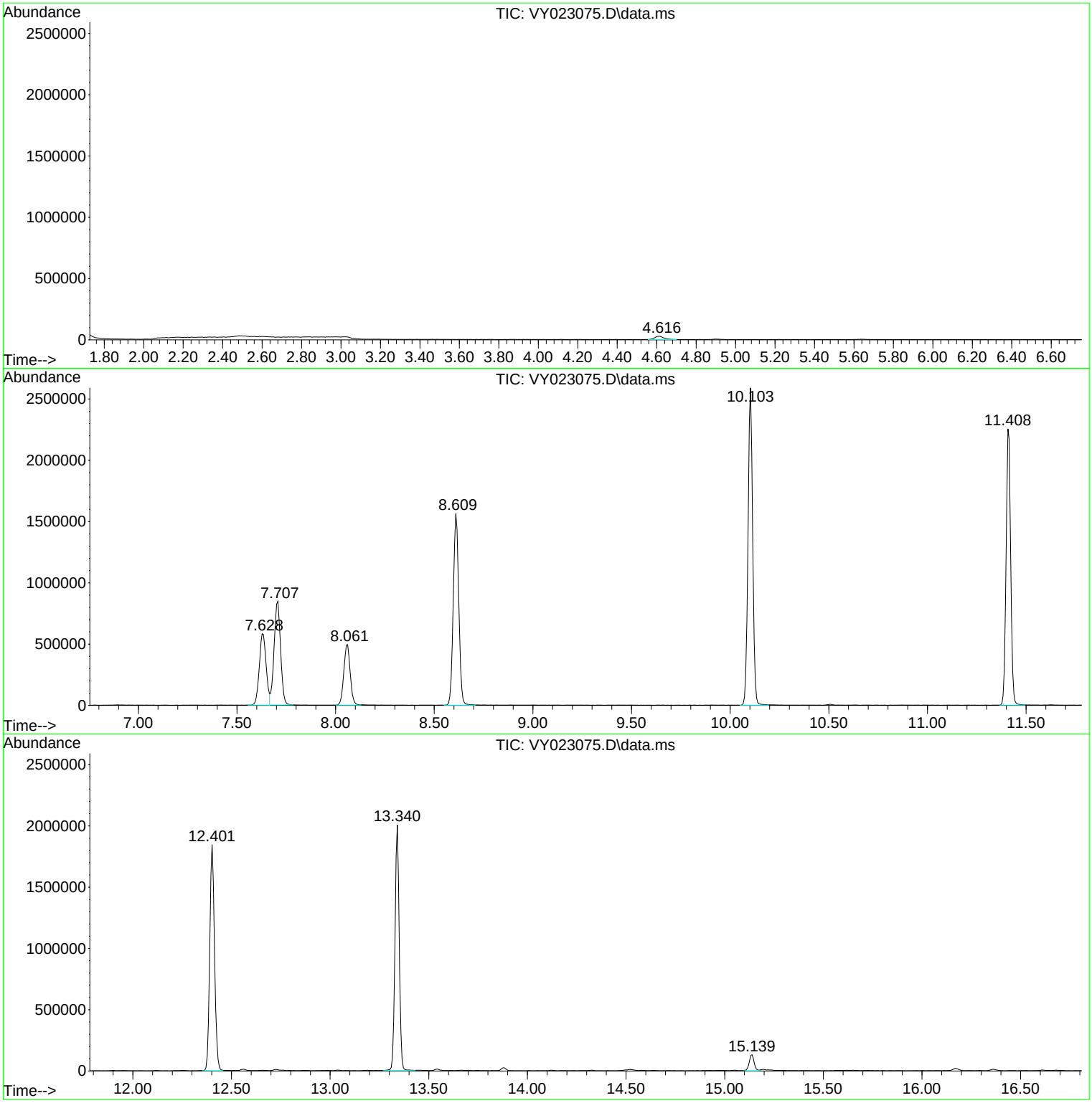
Sum of corrected areas: 21656523

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-14	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	6.72 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
VY023076.D	1	08/13/25 17:40	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.50	U	0.99	3.50	4.30	ug/Kg
74-87-3	Chloromethane	2.20	U	0.99	2.20	4.30	ug/Kg
75-01-4	Vinyl Chloride	2.20	U	0.69	2.20	4.30	ug/Kg
74-83-9	Bromomethane	3.50	U	0.93	3.50	4.30	ug/Kg
75-00-3	Chloroethane	2.20	U	1.10	2.20	4.30	ug/Kg
75-69-4	Trichlorofluoromethane	3.50	U	1.10	3.50	4.30	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.20	U	0.92	2.20	4.30	ug/Kg
75-35-4	1,1-Dichloroethene	2.20	U	0.87	2.20	4.30	ug/Kg
67-64-1	Acetone	17.4	U	4.10	17.4	21.7	ug/Kg
75-15-0	Carbon Disulfide	3.50	U	0.92	3.50	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.20	U	0.63	2.20	4.30	ug/Kg
79-20-9	Methyl Acetate	3.50	U	1.30	3.50	4.30	ug/Kg
75-09-2	Methylene Chloride	7.00	U	3.10	7.00	8.70	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.20	U	0.75	2.20	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	2.20	U	0.70	2.20	4.30	ug/Kg
110-82-7	Cyclohexane	2.20	U	0.69	2.20	4.30	ug/Kg
78-93-3	2-Butanone	17.4	U	5.70	17.4	21.7	ug/Kg
56-23-5	Carbon Tetrachloride	2.20	U	0.84	2.20	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.20	U	0.65	2.20	4.30	ug/Kg
74-97-5	Bromochloromethane	3.50	U	1.00	3.50	4.30	ug/Kg
67-66-3	Chloroform	3.50	U	0.73	3.50	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.20	U	0.81	2.20	4.30	ug/Kg
108-87-2	Methylcyclohexane	2.20	U	0.79	2.20	4.30	ug/Kg
71-43-2	Benzene	2.20	U	0.69	2.20	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	2.20	U	0.69	2.20	4.30	ug/Kg
79-01-6	Trichloroethene	2.20	U	0.70	2.20	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	2.20	U	0.79	2.20	4.30	ug/Kg
75-27-4	Bromodichloromethane	2.20	U	0.68	2.20	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10.9	U	3.10	10.9	21.7	ug/Kg
108-88-3	Toluene	2.20	U	0.68	2.20	4.30	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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-14	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	6.72 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
VY023076.D	1	08/13/25 17:40	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.20	U	0.56	2.20	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.20	U	0.54	2.20	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.20	U	0.80	2.20	4.30	ug/Kg
591-78-6	2-Hexanone	10.9	U	3.20	10.9	21.7	ug/Kg
124-48-1	Dibromochloromethane	2.20	U	0.76	2.20	4.30	ug/Kg
106-93-4	1,2-Dibromoethane	2.20	U	0.76	2.20	4.30	ug/Kg
127-18-4	Tetrachloroethene	2.20	U	0.91	2.20	4.30	ug/Kg
108-90-7	Chlorobenzene	2.20	U	0.79	2.20	4.30	ug/Kg
100-41-4	Ethyl Benzene	2.20	U	0.58	2.20	4.30	ug/Kg
179601-23-1	m/p-Xylenes	4.30	U	1.10	4.30	8.70	ug/Kg
95-47-6	o-Xylene	2.20	U	0.71	2.20	4.30	ug/Kg
100-42-5	Styrene	2.20	U	0.62	2.20	4.30	ug/Kg
75-25-2	Bromoform	2.20	U	0.75	2.20	4.30	ug/Kg
98-82-8	Isopropylbenzene	2.20	U	0.68	2.20	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.20	U	1.10	2.20	4.30	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.20	U	1.50	2.20	4.30	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.20	U	1.40	2.20	4.30	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.20	U	1.30	2.20	4.30	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.50	U	1.60	3.50	4.30	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.50	U	2.60	3.50	4.30	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.50	U	2.80	3.50	4.30	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		71 - 136		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		78 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	51.7		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.3		79 - 119		83%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	676000	7.701				
540-36-3	1,4-Difluorobenzene	1290000	8.609				
3114-55-4	Chlorobenzene-d5	1060000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	379000	13.34				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-14	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	85.6
Sample Wt/Vol:	6.72 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
VY023076.D	1	08/13/25 17:40	VY081325

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\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-W

Quant Time: Aug 14 01:27:21 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

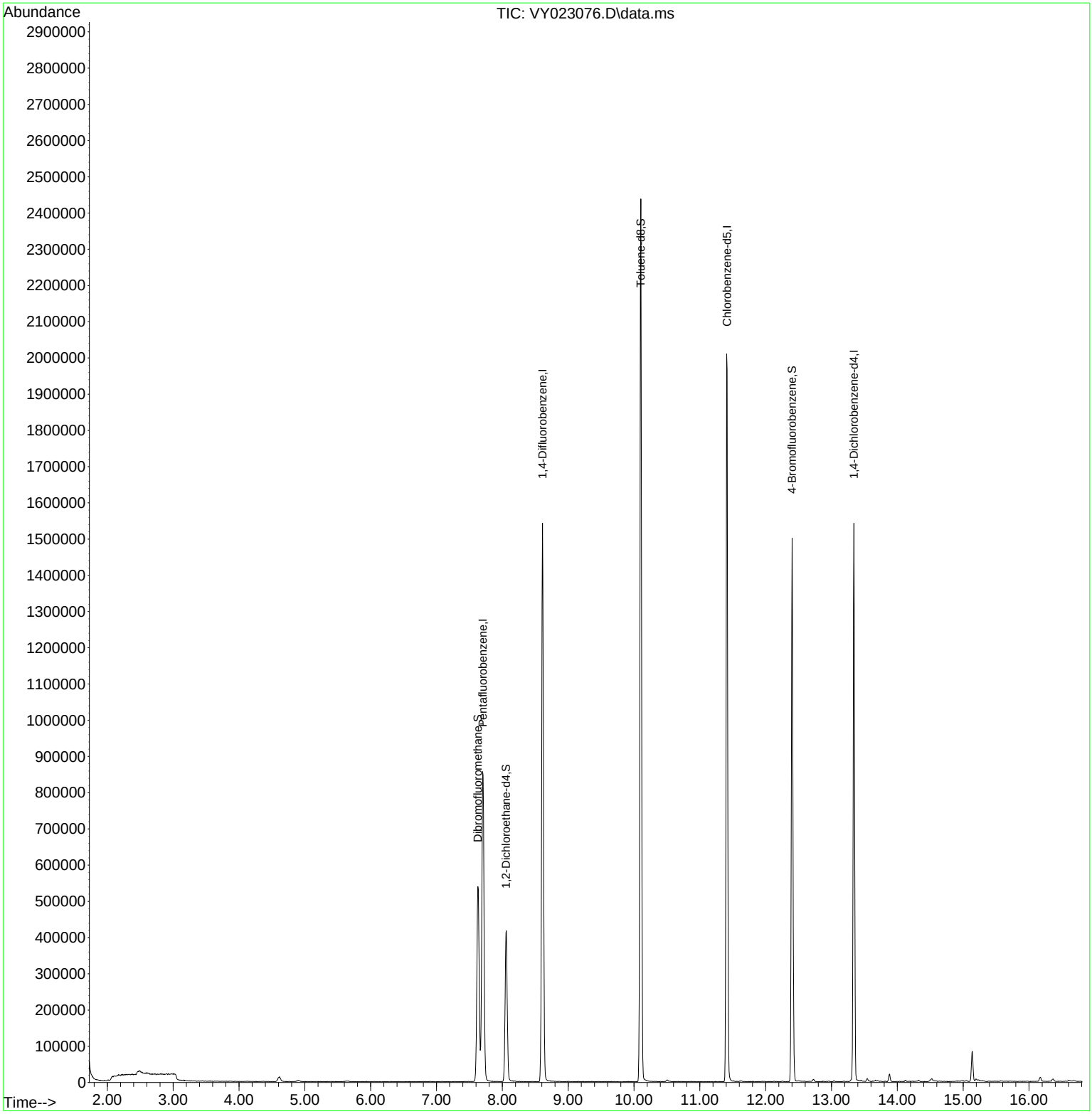
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.701	168	675805	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1293758	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1059306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	379138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	327850	50.901	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.800%			
35) Dibromofluoromethane	7.628	113	390959	50.502	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.000%			
50) Toluene-d8	10.103	98	1562265	51.658	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.320%			
62) 4-Bromofluorobenzene	12.401	95	401739	41.306	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 82.620%			
Target Compounds						Qvalue

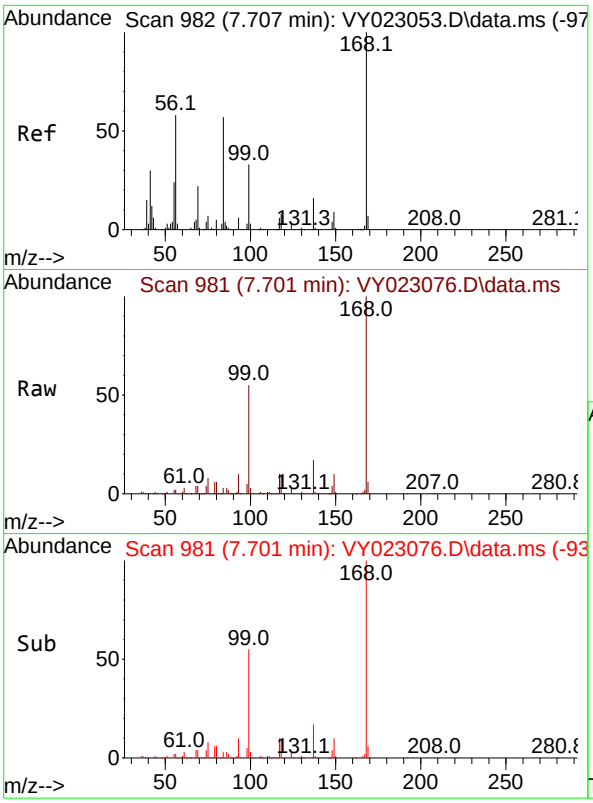
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-W

Quant Time: Aug 14 01:27:21 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



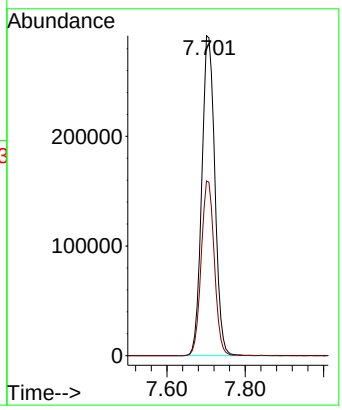


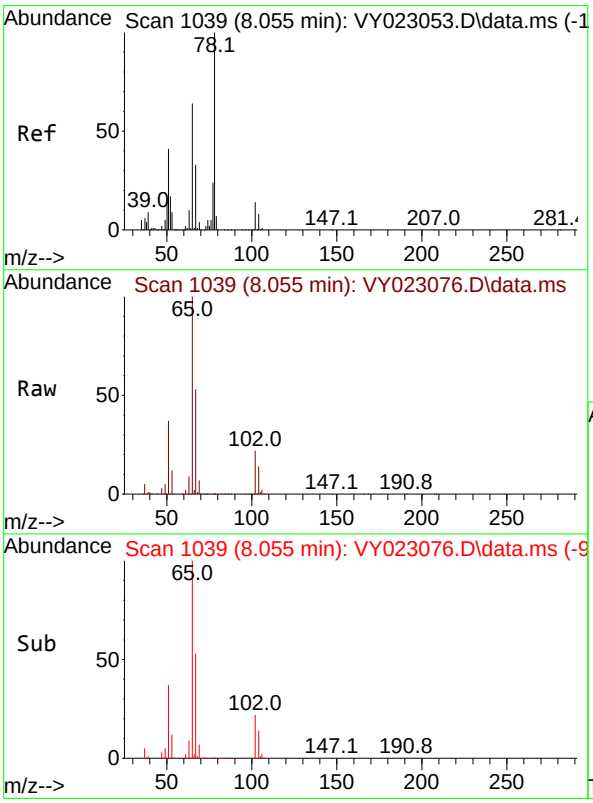
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_Y
ClientSampleId :
17M-W

Tgt Ion:168 Resp: 675805

Ion	Ratio	Lower	Upper
168	100		
99	54.6	42.8	64.2

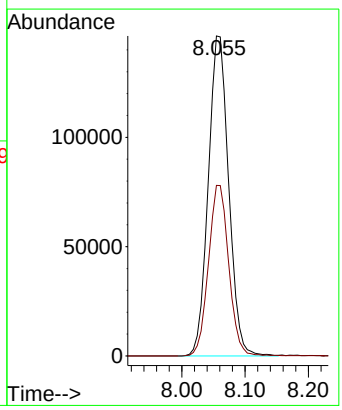


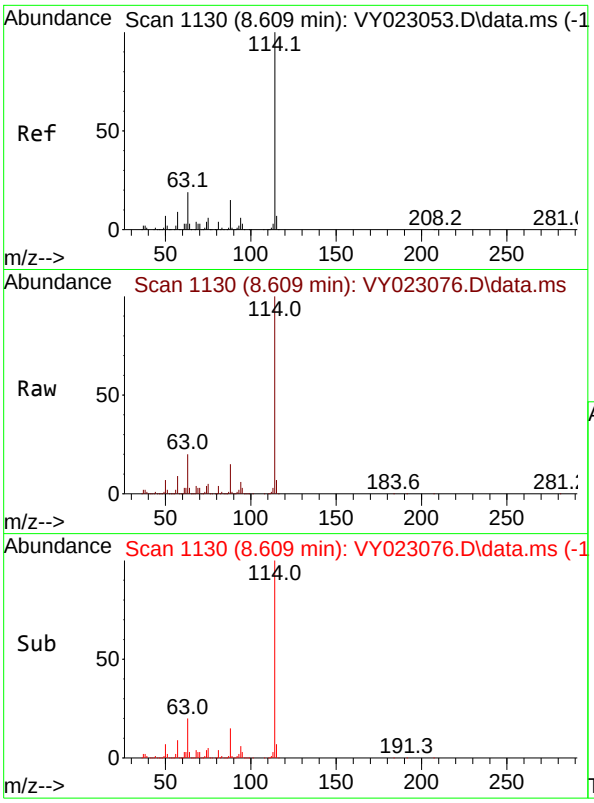


#33
1,2-Dichloroethane-d4
Concen: 50.901 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 65 Resp: 327850

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.8



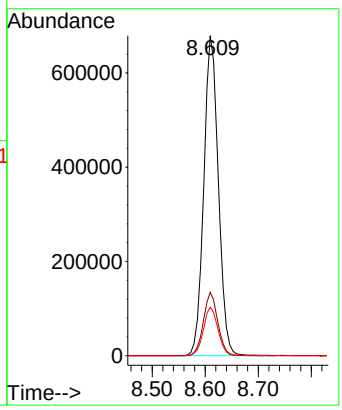


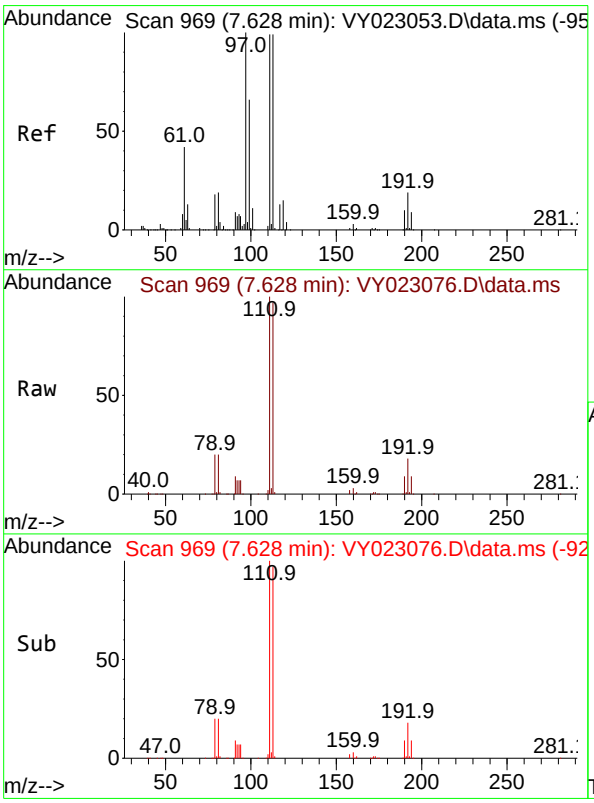
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_Y
ClientSampleId :
17M-W

Tgt Ion:114 Resp: 1293758

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.1	0.0	30.0

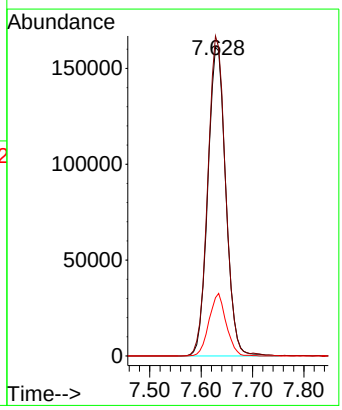


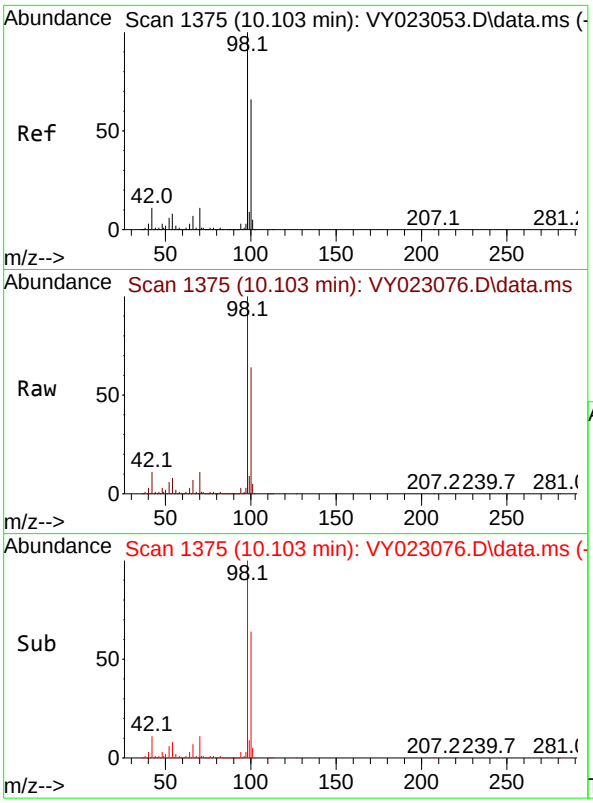


#35
Dibromofluoromethane
Concen: 50.502 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion:113 Resp: 390959

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.1	121.7
192	19.3	16.2	24.4



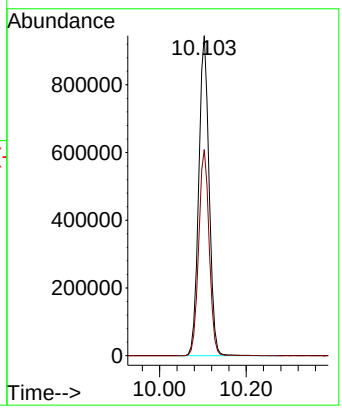


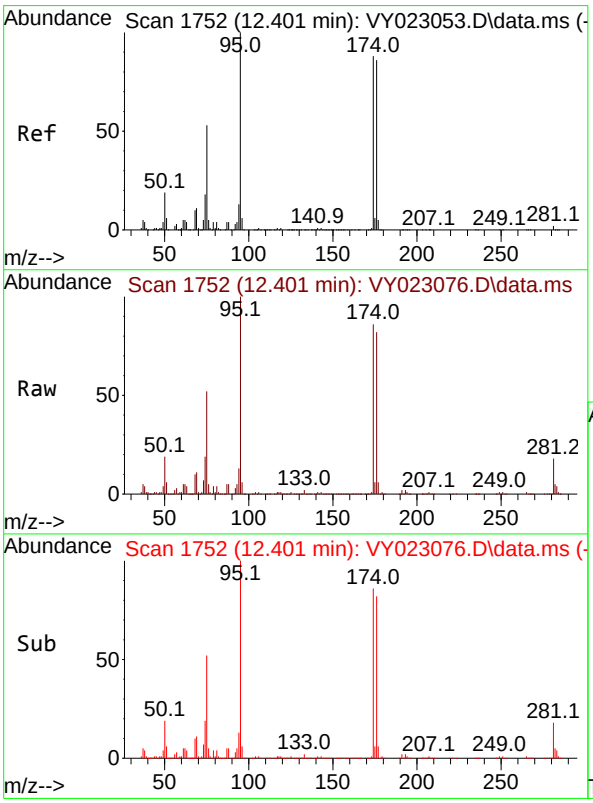
#50
Toluene-d8
Concen: 51.658 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_Y
ClientSampleId :
17M-W

Tgt Ion: 98 Resp: 1562265

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5

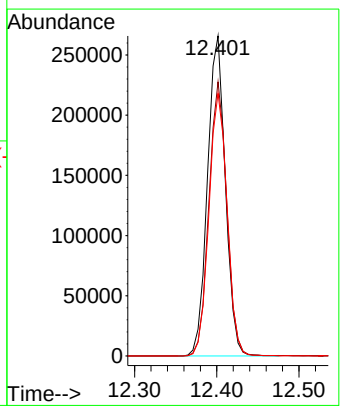


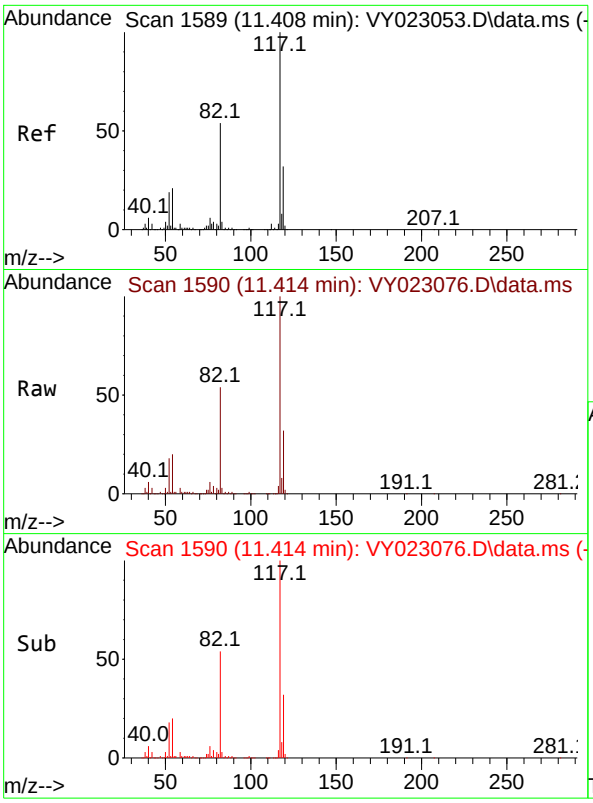


#62
4-Bromofluorobenzene
Concen: 41.306 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 95 Resp: 401739

Ion	Ratio	Lower	Upper
95	100		
174	86.2	0.0	171.6
176	83.6	0.0	167.6



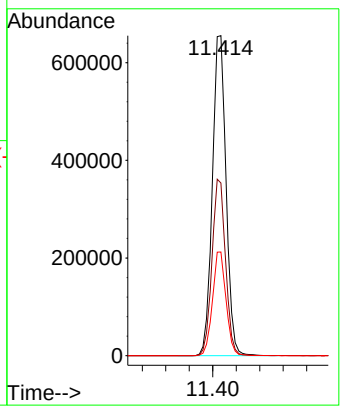


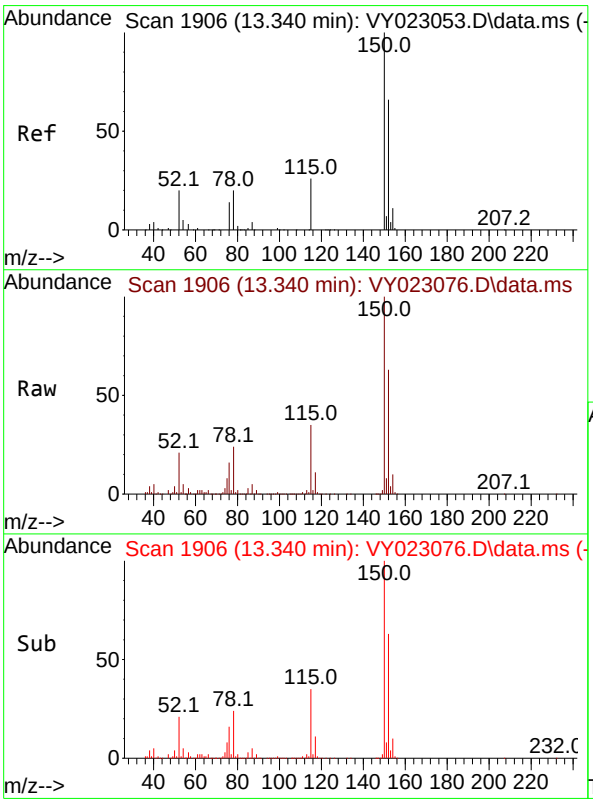
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Instrument :
MSVOA_Y
ClientSampleId :
17M-W

Tgt Ion:117 Resp: 1059306

Ion	Ratio	Lower	Upper
117	100		
82	53.9	43.4	65.0
119	32.4	25.6	38.4

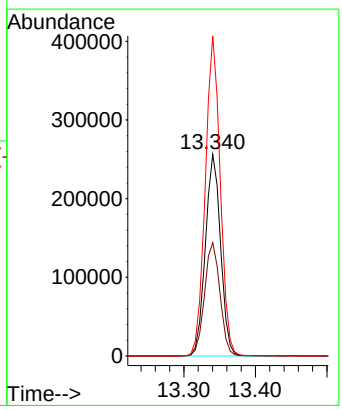




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion:152 Resp: 379138

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.2	84.6
150	156.2	0.0	348.0



Sample Results: **VY023076.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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: VY023076.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.628	958	969	975	rBV	538621	1292645	31.67%	6.647%
2	7.701	975	981	995	rVB	853723	1979885	48.51%	10.181%
3	8.061	1029	1040	1054	rBV	416605	935672	22.93%	4.811%
4	8.609	1119	1130	1144	rBV	1542681	2952732	72.35%	15.183%
5	10.103	1367	1375	1390	rBV	2436760	4081196	100.00%	20.986%
6	11.408	1582	1589	1604	rBV	2009310	3229013	79.12%	16.604%
7	12.401	1744	1752	1761	rBV2	1501167	2526864	61.91%	12.993%
8	13.340	1893	1906	1918	rBV	1541809	2304518	56.47%	11.850%
9	15.139	2194	2201	2208	rBV	83858	145035	3.55%	0.746%

Sum of corrected areas: 19447560

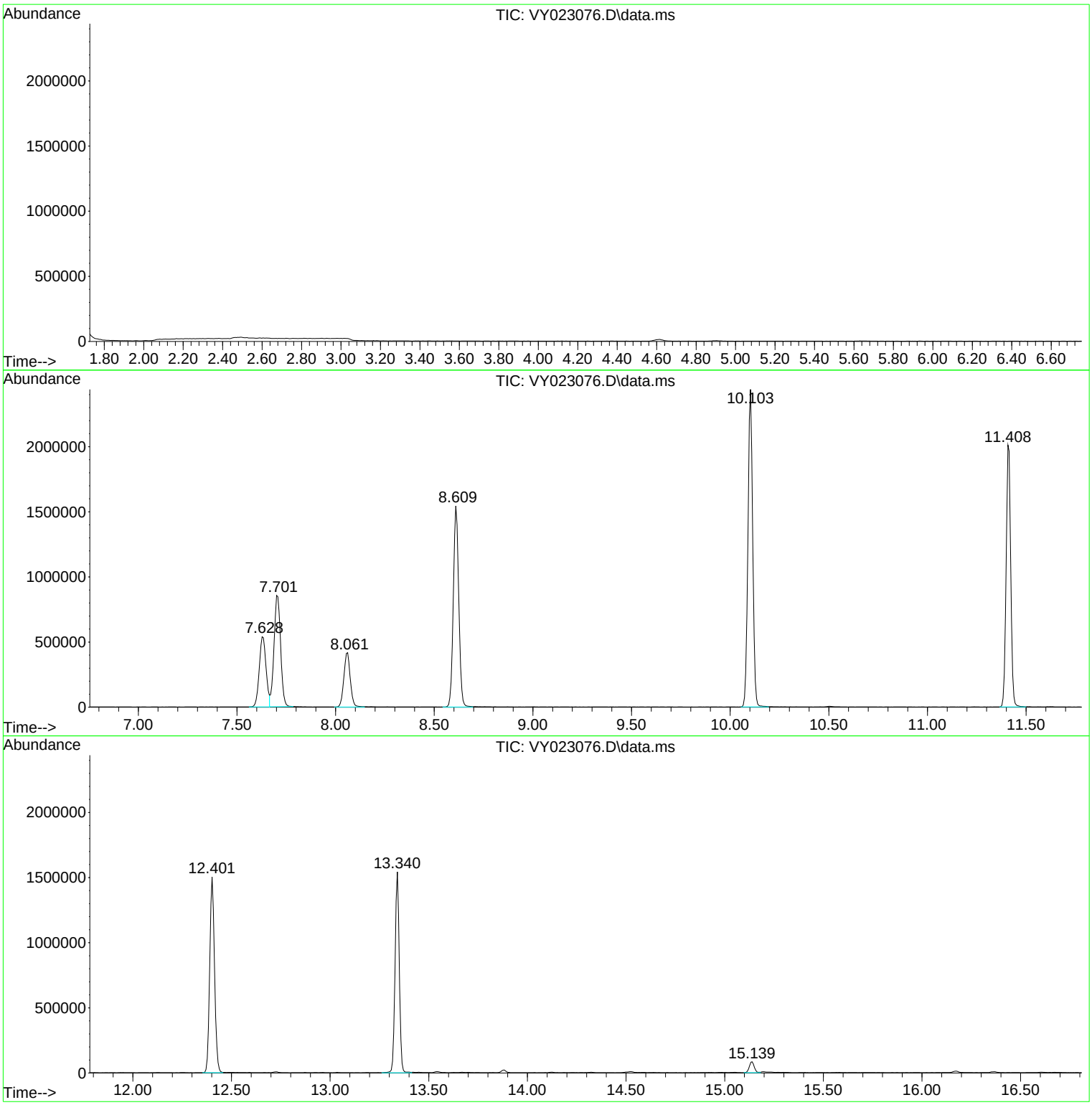
Sample Results: **VY023076.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-15	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.3
Sample Wt/Vol:	6.06 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
VY023091.D	1	08/14/25 13:37	VY081425

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	0.78	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	1.20	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	1.00	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	0.99	2.50	5.00	ug/Kg
67-64-1	Acetone	19.8	U	4.70	19.8	24.8	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.00	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.72	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	7.90	U	3.50	7.90	9.90	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.85	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	2.50	U	0.78	2.50	5.00	ug/Kg
78-93-3	2-Butanone	19.8	U	6.50	19.8	24.8	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.96	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.74	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	4.00	U	1.10	4.00	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.83	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.90	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.78	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.78	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.80	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.90	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.77	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.4	U	3.50	12.4	24.8	ug/Kg
108-88-3	Toluene	2.50	U	0.77	2.50	5.00	ug/Kg

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-15	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.3
Sample Wt/Vol:	6.06 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
VY023091.D	1	08/14/25 13:37	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.64	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.61	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.91	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.4	U	3.70	12.4	24.8	ug/Kg
124-48-1	Dibromochloromethane	2.50	U	0.86	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	2.50	U	0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.90	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.66	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	9.90	ug/Kg
95-47-6	o-Xylene	2.50	U	0.81	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.70	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.85	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.77	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	1.50	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.40	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	2.90	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	4.00	U	3.10	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	62.3		71 - 136		125%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	51.8		85 - 116		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		79 - 119		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	552000	7.707				
540-36-3	1,4-Difluorobenzene	1100000	8.609				
3114-55-4	Chlorobenzene-d5	968000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	382000	13.34				

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:	08/05/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	17M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-15	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	83.3
Sample Wt/Vol:	6.06 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
VY023091.D	1	08/14/25 13:37	VY081425

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\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-N

Quant Time: Aug 14 14:48:06 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

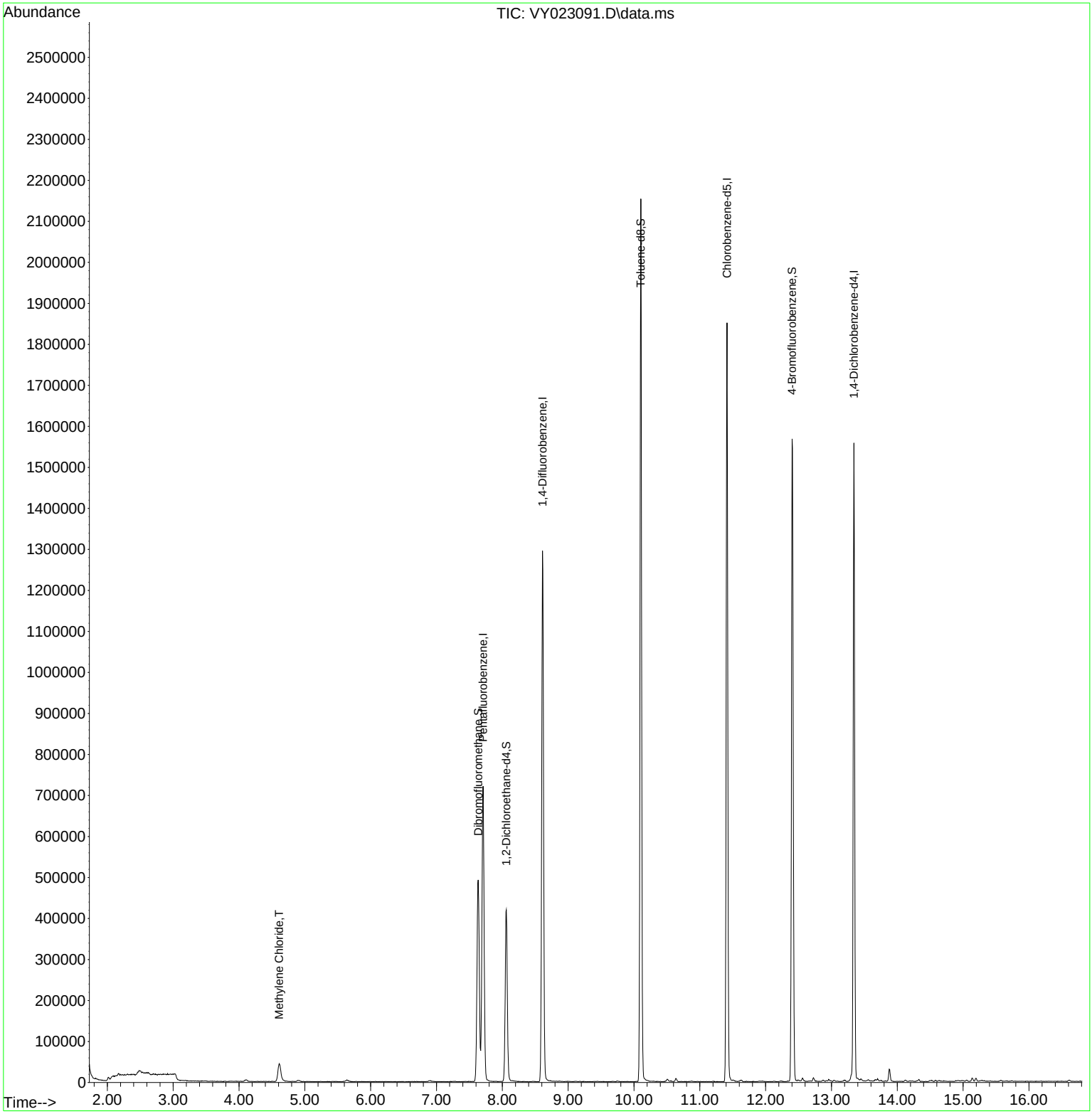
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	551711	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1101553	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	967632	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	381964	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	327813	62.343	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.680%			
35) Dibromofluoromethane	7.634	113	359196	54.495	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.000%			
50) Toluene-d8	10.103	98	1334904	51.842	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.680%			
62) 4-Bromofluorobenzene	12.401	95	389251	47.005	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.020%			
Target Compounds						Qvalue
20) Methylene Chloride	4.610	84	32918	3.006	ug/l	96

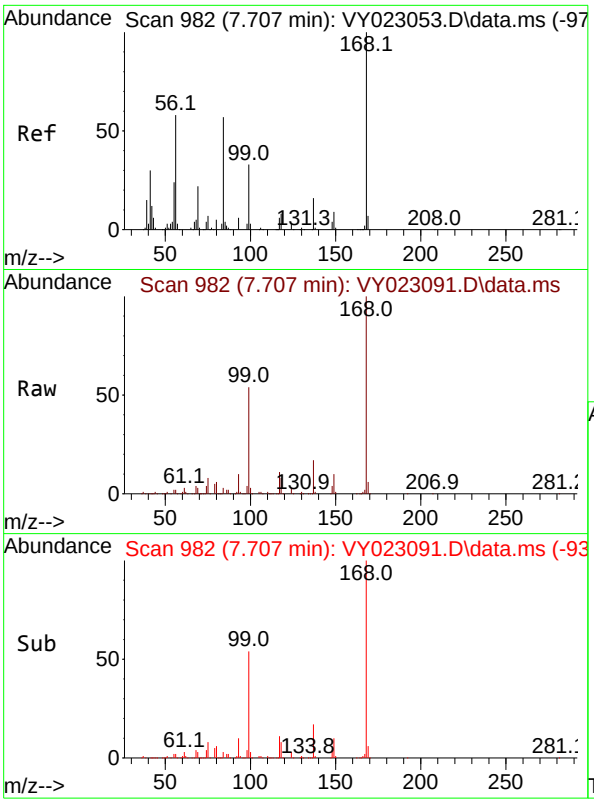
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-N

Quant Time: Aug 14 14:48:06 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



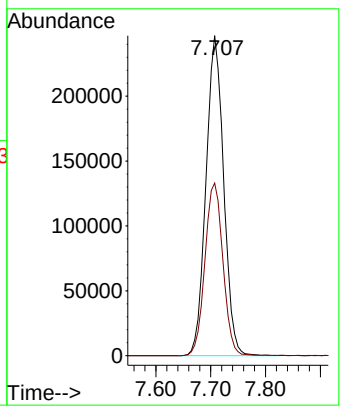


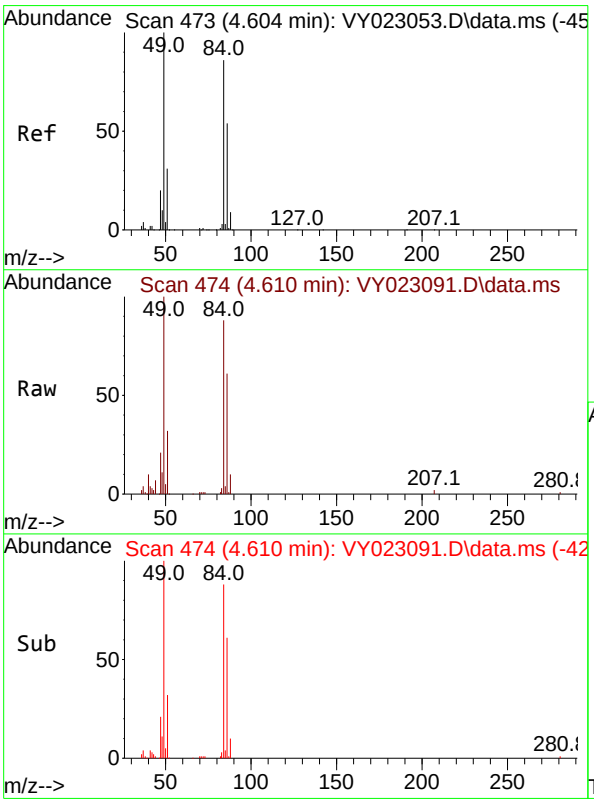
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
17M-N

Tgt Ion:168 Resp: 551711

Ion	Ratio	Lower	Upper
168	100		
99	53.9	42.8	64.2

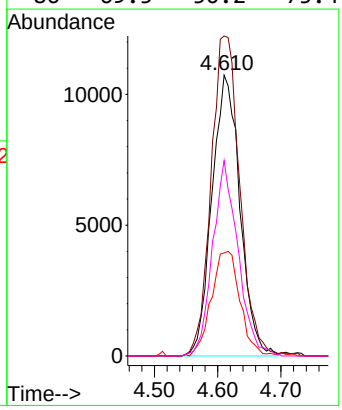


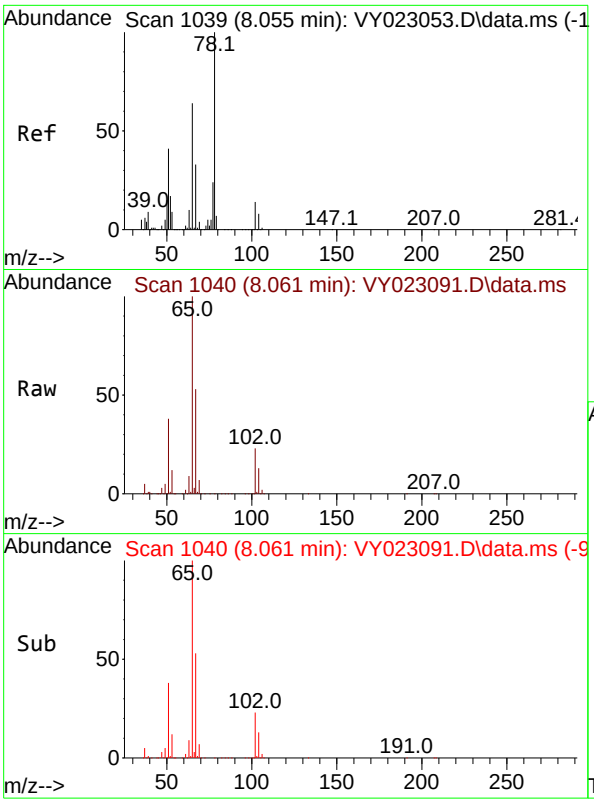


#20
Methylene Chloride
Concen: 3.006 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion: 84 Resp: 32918

Ion	Ratio	Lower	Upper
84	100		
49	113.9	93.0	139.6
51	36.7	29.0	43.4
86	69.5	50.2	75.4



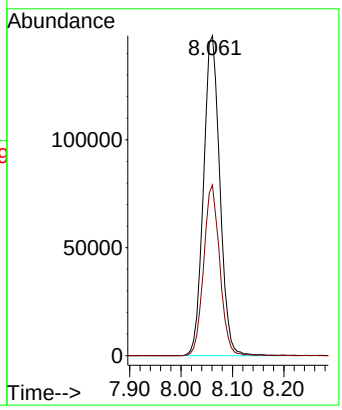


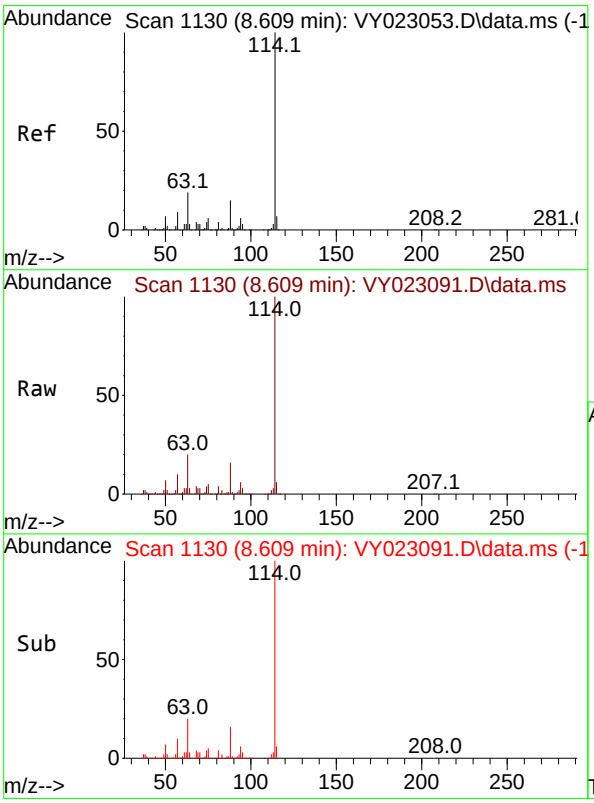
#33
1,2-Dichloroethane-d4
Concen: 62.343 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
17M-N

Tgt Ion: 65 Resp: 327813

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.8

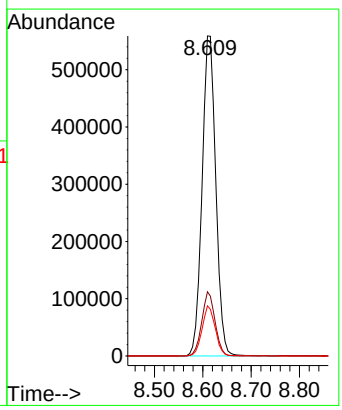


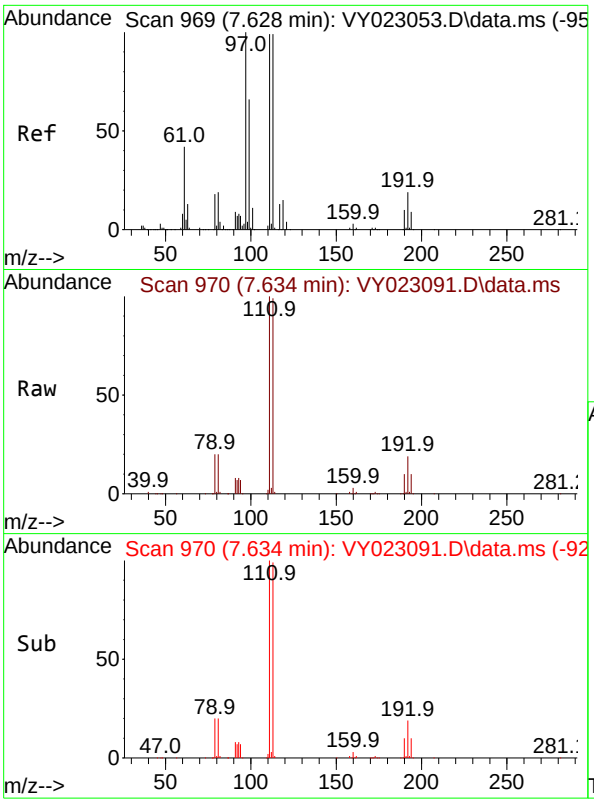


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion:114 Resp: 1101553

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	38.4
88	15.6	0.0	30.0



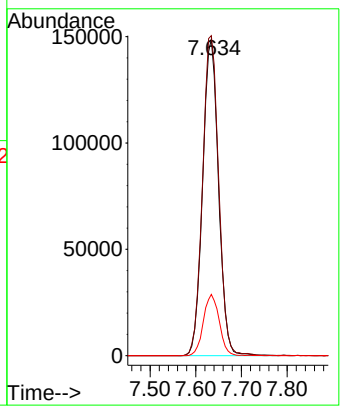


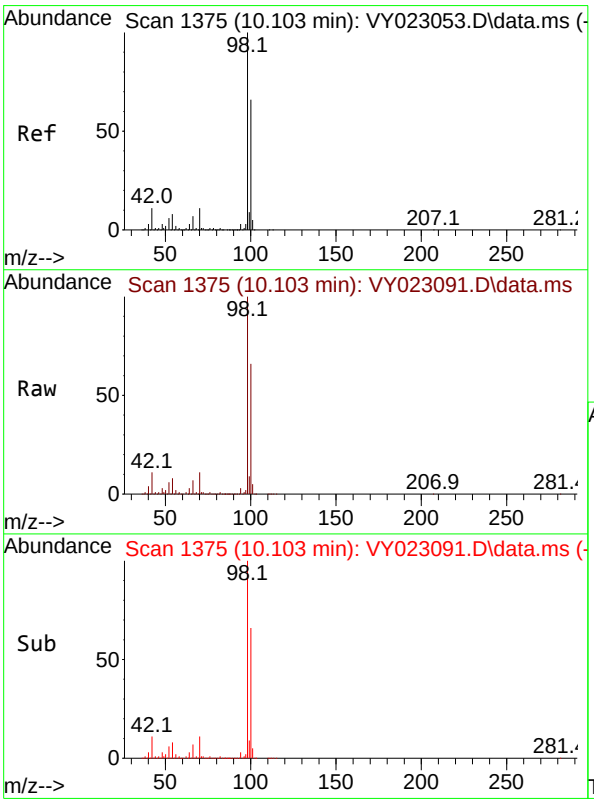
#35
Dibromofluoromethane
Concen: 54.495 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
17M-N

Tgt Ion:113 Resp: 359196

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.1	121.7
192	19.4	16.2	24.4

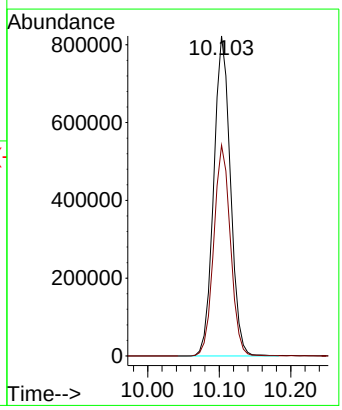


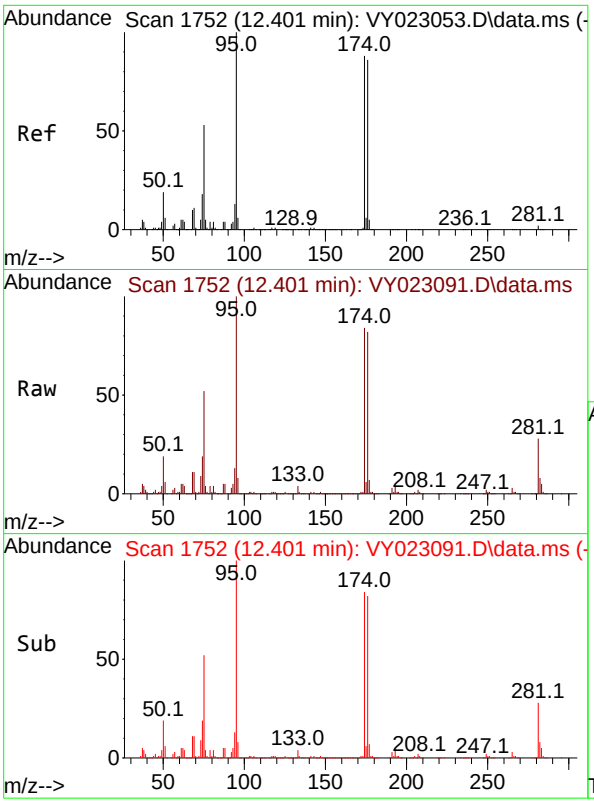


#50
Toluene-d8
Concen: 51.842 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion: 98 Resp: 1334904

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.3	78.5



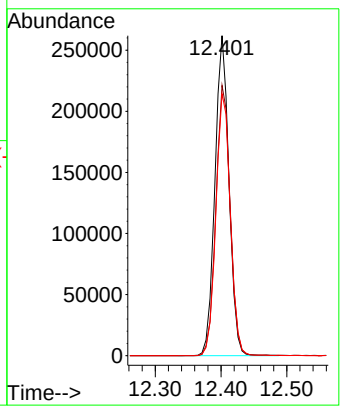


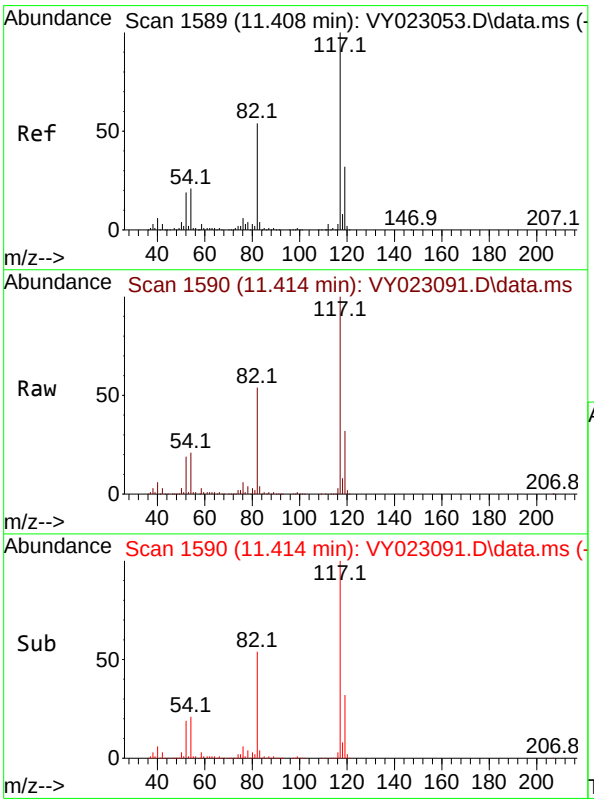
#62
4-Bromofluorobenzene
Concen: 47.005 ug/l
RT: 12.401 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
17M-N

Tgt Ion: 95 Resp: 389251

Ion	Ratio	Lower	Upper
95	100		
174	86.0	0.0	171.6
176	83.9	0.0	167.6

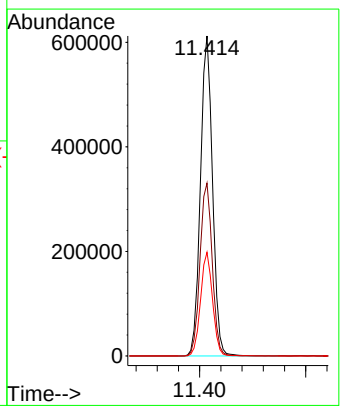


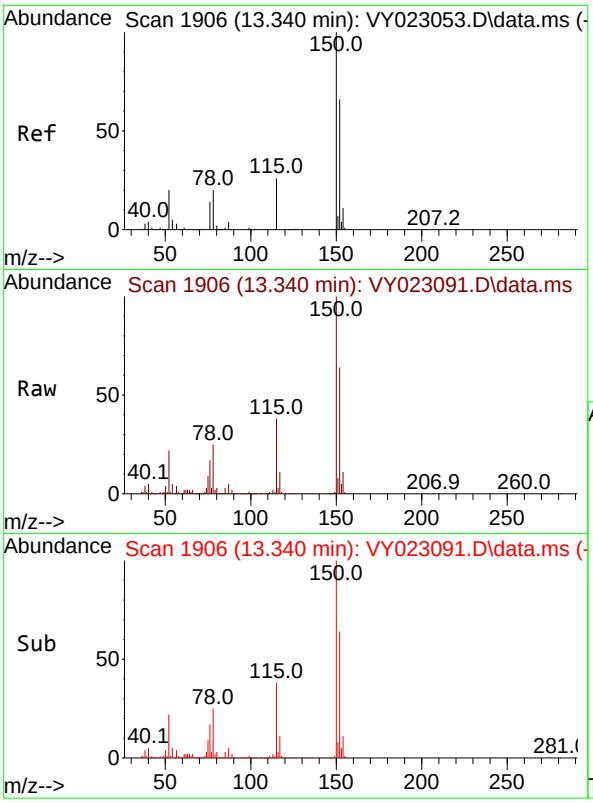


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion:117 Resp: 967632

Ion	Ratio	Lower	Upper
117	100		
82	54.0	43.4	65.0
119	32.4	25.6	38.4



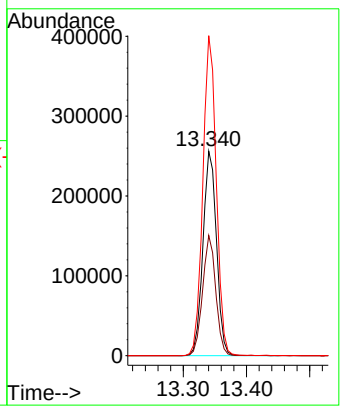


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Instrument :
MSVOA_Y
ClientSampleId :
17M-N

Tgt Ion:152 Resp: 381964

Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.2	84.6
150	155.3	0.0	348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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: VY023091.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	463	474	489	rBV	43984	145096	4.12%	0.798%
2	7.634	958	970	976	rBV	491718	1209158	34.37%	6.652%
3	7.707	976	982	1000	rVB	719348	1623635	46.15%	8.932%
4	8.061	1030	1040	1051	rBV	418570	929793	26.43%	5.115%
5	8.609	1121	1130	1146	rBV	1295322	2528712	71.87%	13.911%
6	10.103	1367	1375	1395	rBV	2152692	3518536	100.00%	19.356%
7	11.414	1582	1590	1601	rBV	1850563	2962325	84.19%	16.296%
8	12.401	1742	1752	1761	rBV2	1566475	2868649	81.53%	15.781%
9	13.340	1889	1906	1914	rBV	1557089	2337646	66.44%	12.860%
10	13.877	1988	1994	2005	rVB2	30503	54342	1.54%	0.299%

Sum of corrected areas: 18177892

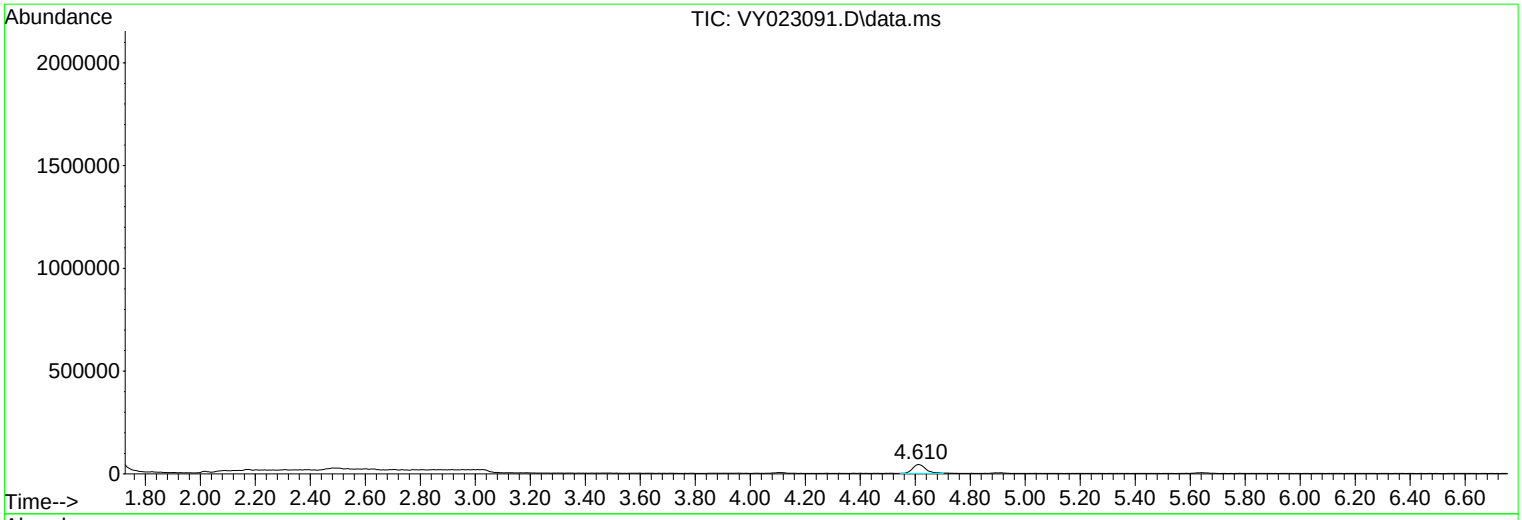
Sample Results: **VY023091.D**

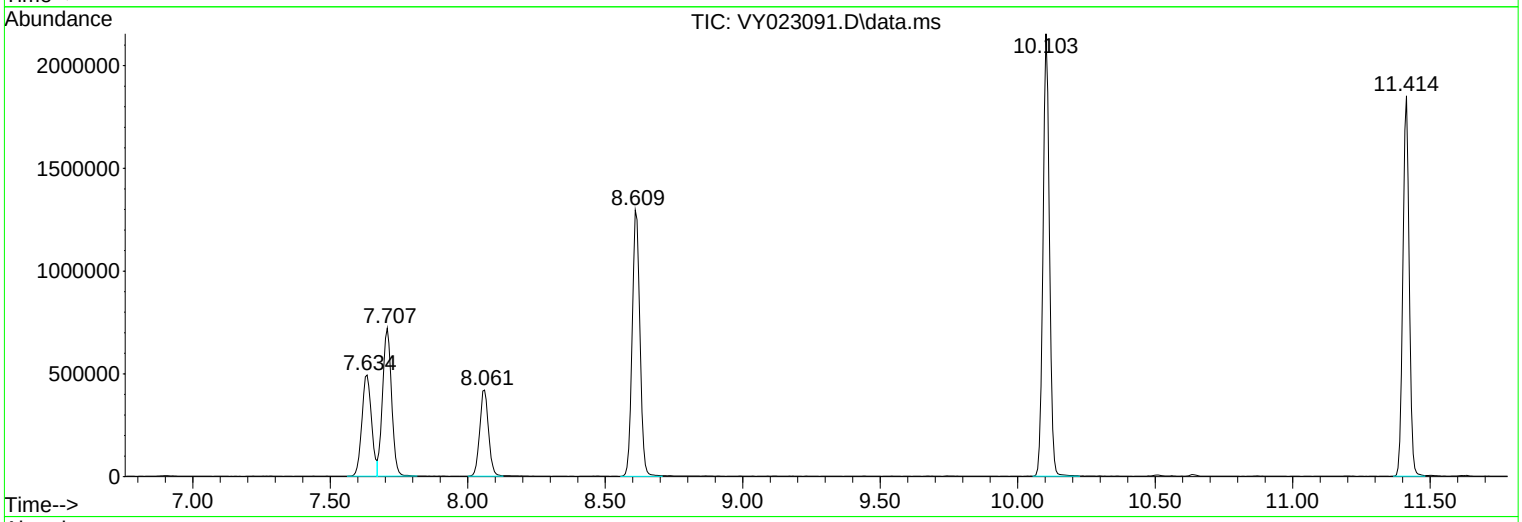
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

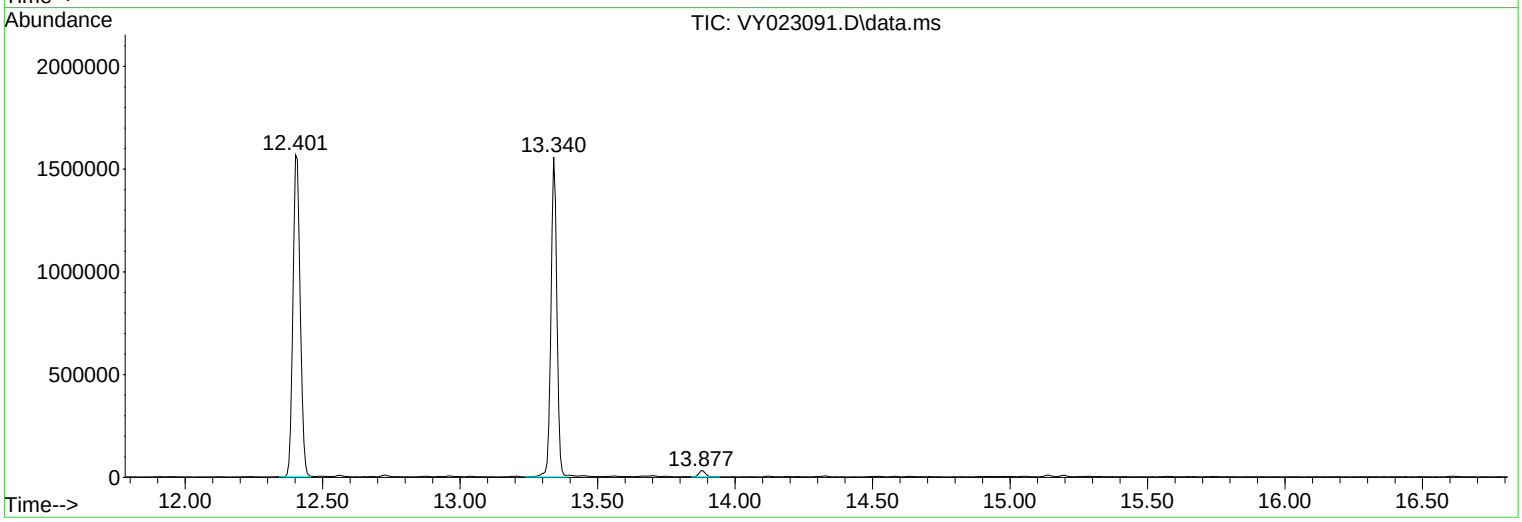
Instrument :
MSVOA_Y
ClientSampleId :
17M-N

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
17M-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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard 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:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.4
Sample Wt/Vol:	6.62 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
VY023092.D	1	08/14/25 14:00	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.30	U	0.93	3.30	4.10	ug/Kg
74-87-3	Chloromethane	2.00	U	0.93	2.00	4.10	ug/Kg
75-01-4	Vinyl Chloride	2.00	U	0.65	2.00	4.10	ug/Kg
74-83-9	Bromomethane	3.30	U	0.87	3.30	4.10	ug/Kg
75-00-3	Chloroethane	2.00	U	1.00	2.00	4.10	ug/Kg
75-69-4	Trichlorofluoromethane	3.30	U	0.99	3.30	4.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.00	U	0.87	2.00	4.10	ug/Kg
75-35-4	1,1-Dichloroethene	2.00	U	0.82	2.00	4.10	ug/Kg
67-64-1	Acetone	16.3	U	3.90	16.3	20.4	ug/Kg
75-15-0	Carbon Disulfide	3.30	U	0.87	3.30	4.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.00	U	0.60	2.00	4.10	ug/Kg
79-20-9	Methyl Acetate	3.30	U	1.30	3.30	4.10	ug/Kg
75-09-2	Methylene Chloride	6.50	U	2.90	6.50	8.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.00	U	0.70	2.00	4.10	ug/Kg
75-34-3	1,1-Dichloroethane	2.00	U	0.65	2.00	4.10	ug/Kg
110-82-7	Cyclohexane	2.00	U	0.65	2.00	4.10	ug/Kg
78-93-3	2-Butanone	16.3	U	5.30	16.3	20.4	ug/Kg
56-23-5	Carbon Tetrachloride	2.00	U	0.79	2.00	4.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.00	U	0.61	2.00	4.10	ug/Kg
74-97-5	Bromochloromethane	3.30	U	0.94	3.30	4.10	ug/Kg
67-66-3	Chloroform	3.30	U	0.69	3.30	4.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.00	U	0.76	2.00	4.10	ug/Kg
108-87-2	Methylcyclohexane	2.00	U	0.74	2.00	4.10	ug/Kg
71-43-2	Benzene	2.00	U	0.65	2.00	4.10	ug/Kg
107-06-2	1,2-Dichloroethane	2.00	U	0.65	2.00	4.10	ug/Kg
79-01-6	Trichloroethene	2.00	U	0.66	2.00	4.10	ug/Kg
78-87-5	1,2-Dichloropropane	2.00	U	0.74	2.00	4.10	ug/Kg
75-27-4	Bromodichloromethane	2.00	U	0.64	2.00	4.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	10.2	U	2.90	10.2	20.4	ug/Kg
108-88-3	Toluene	2.00	U	0.64	2.00	4.10	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:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.4
Sample Wt/Vol:	6.62 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
VY023092.D	1	08/14/25 14:00	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.00	U	0.53	2.00	4.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.00	U	0.51	2.00	4.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.00	U	0.75	2.00	4.10	ug/Kg
591-78-6	2-Hexanone	10.2	U	3.00	10.2	20.4	ug/Kg
124-48-1	Dibromochloromethane	2.00	U	0.71	2.00	4.10	ug/Kg
106-93-4	1,2-Dibromoethane	2.00	U	0.72	2.00	4.10	ug/Kg
127-18-4	Tetrachloroethene	2.00	U	0.86	2.00	4.10	ug/Kg
108-90-7	Chlorobenzene	2.00	U	0.74	2.00	4.10	ug/Kg
100-41-4	Ethyl Benzene	2.00	U	0.55	2.00	4.10	ug/Kg
179601-23-1	m/p-Xylenes	4.10	U	1.00	4.10	8.20	ug/Kg
95-47-6	o-Xylene	2.00	U	0.67	2.00	4.10	ug/Kg
100-42-5	Styrene	2.00	U	0.58	2.00	4.10	ug/Kg
75-25-2	Bromoform	2.00	U	0.70	2.00	4.10	ug/Kg
98-82-8	Isopropylbenzene	2.00	U	0.64	2.00	4.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.00	U	0.99	2.00	4.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.00	U	1.40	2.00	4.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.00	U	1.30	2.00	4.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.00	U	1.20	2.00	4.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	3.30	U	1.50	3.30	4.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	3.30	U	2.40	3.30	4.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	3.30	U	2.60	3.30	4.10	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	62.3		71 - 136		125%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		78 - 119		108%	SPK: 50
2037-26-5	Toluene-d8	51.4		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.0		79 - 119		80%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	501000	7.707				
540-36-3	1,4-Difluorobenzene	980000	8.61				
3114-55-4	Chlorobenzene-d5	814000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	246000	13.34				

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:	38M-S	SDG No.:	Q2819
Lab Sample ID:	Q2819-16	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	92.4
Sample Wt/Vol:	6.62 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
VY023092.D	1	08/14/25 14:00	VY081425

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\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Quant Time: Aug 14 14:48:14 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

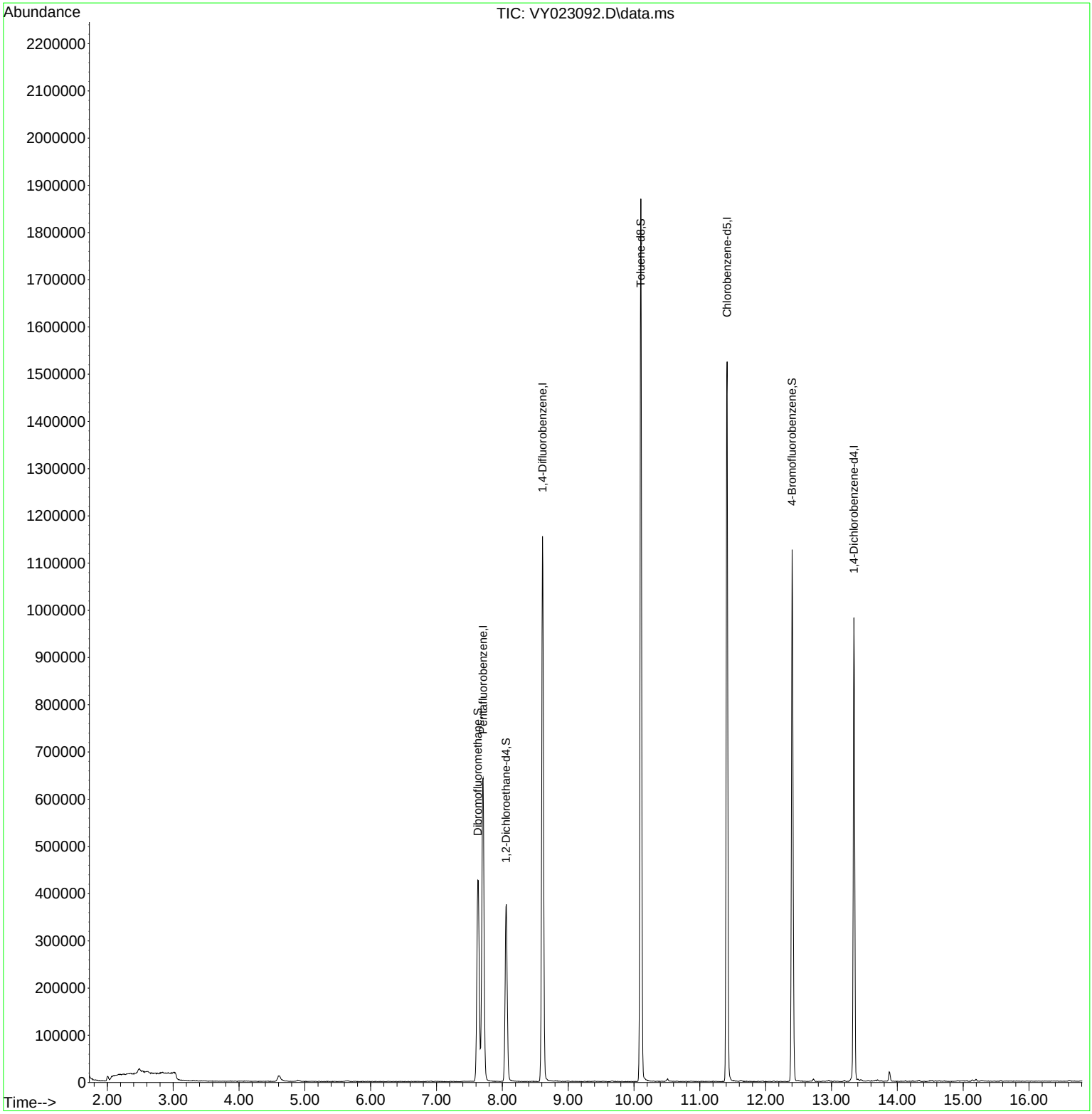
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	501292	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	980075	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	813504	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	246483	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	297813	62.335	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.660%			
35) Dibromofluoromethane	7.628	113	316246	53.926	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.860%			
50) Toluene-d8	10.103	98	1176737	51.363	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.720%			
62) 4-Bromofluorobenzene	12.402	95	294724	40.002	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.000%			
Target Compounds						Qvalue

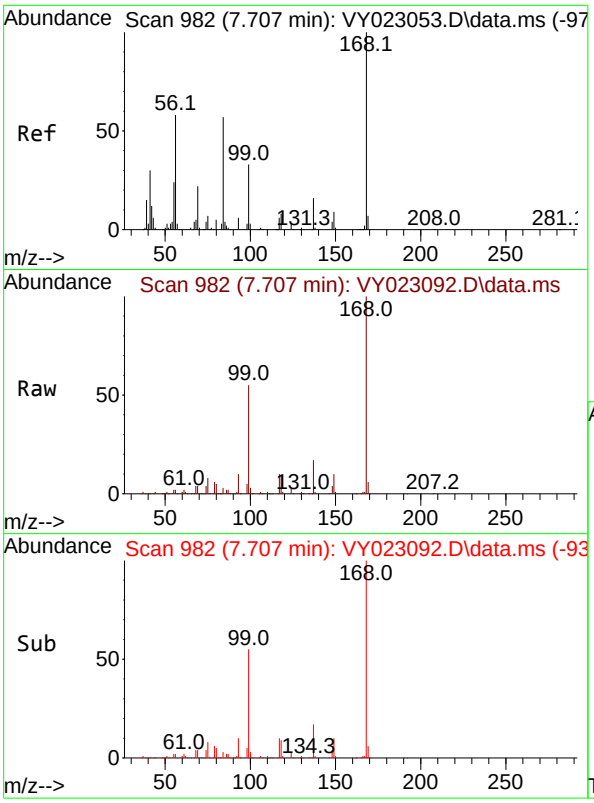
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Quant Time: Aug 14 14:48:14 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



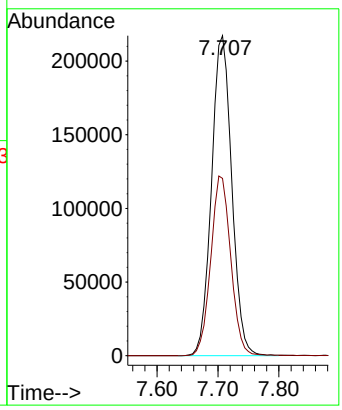


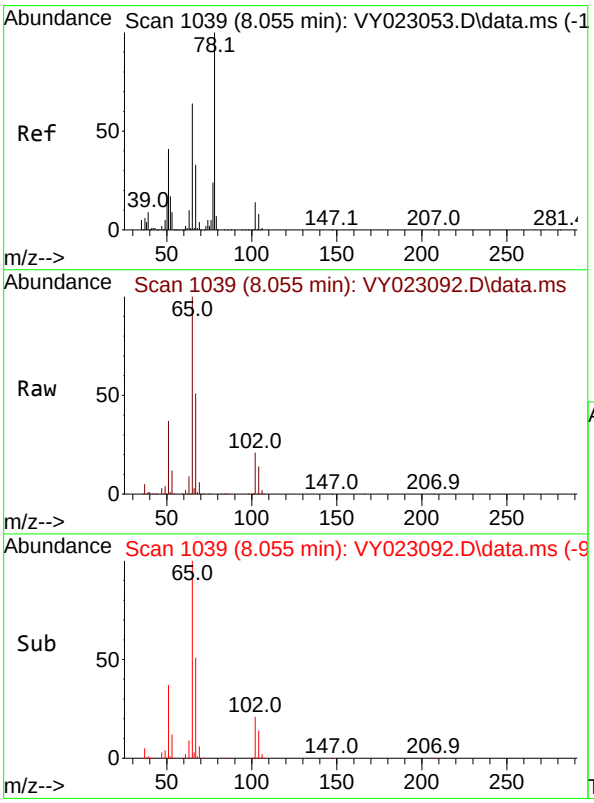
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Tgt Ion:168 Resp: 501292

Ion	Ratio	Lower	Upper
168	100		
99	55.4	42.8	64.2

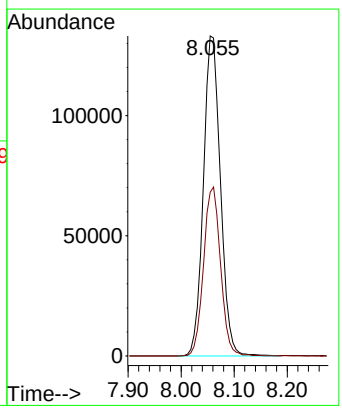


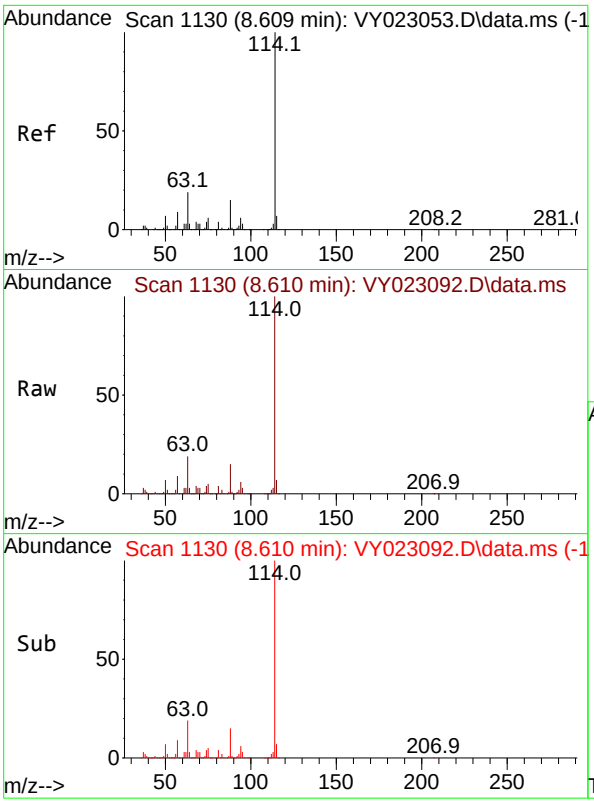


#33
1,2-Dichloroethane-d4
Concen: 62.335 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion: 65 Resp: 297813

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.8



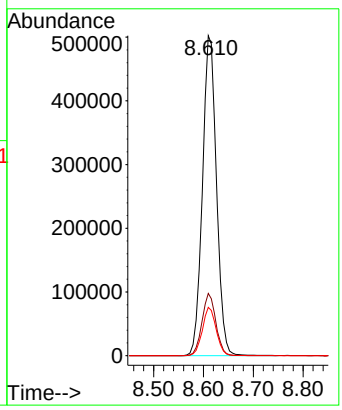


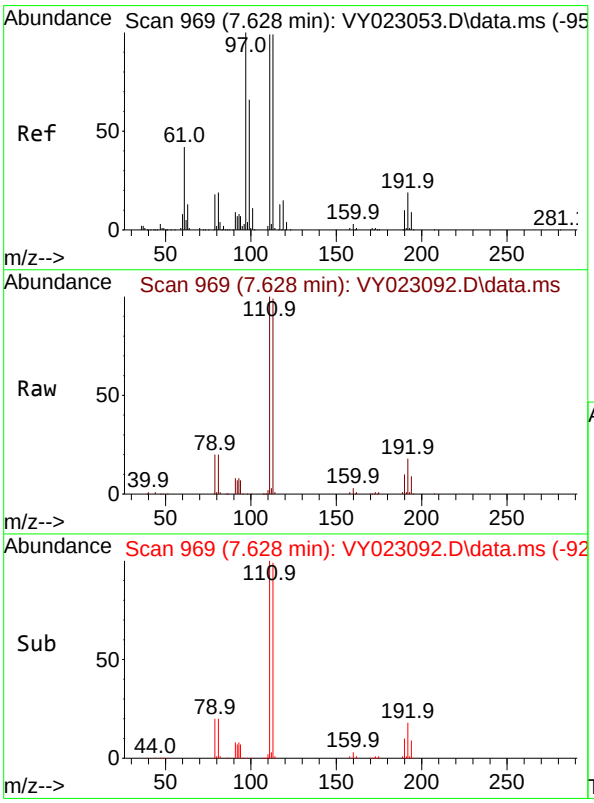
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Tgt Ion:114 Resp: 980075

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	38.4
88	15.1	0.0	30.0

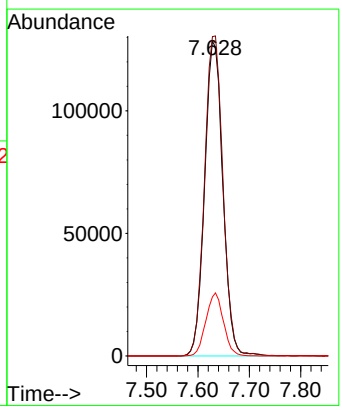


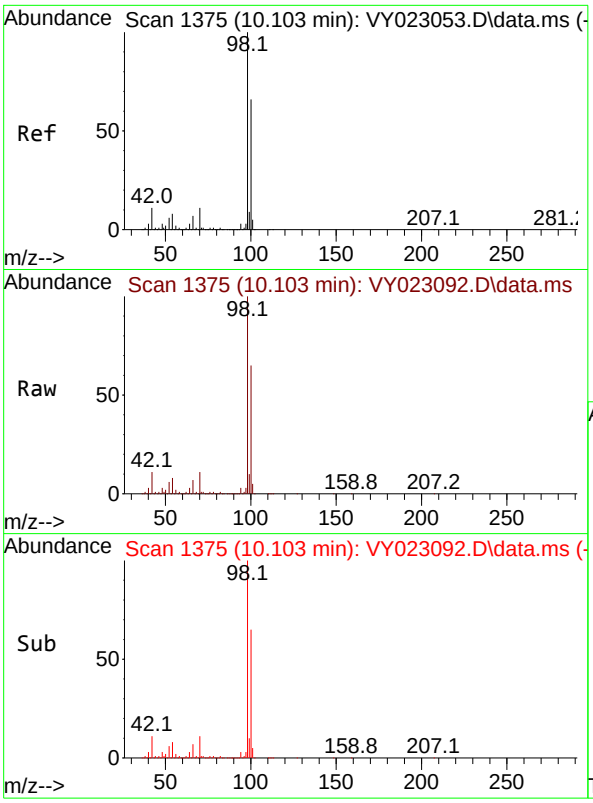


#35
Dibromofluoromethane
Concen: 53.926 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion:113 Resp: 316246

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.1	121.7
192	19.3	16.2	24.4



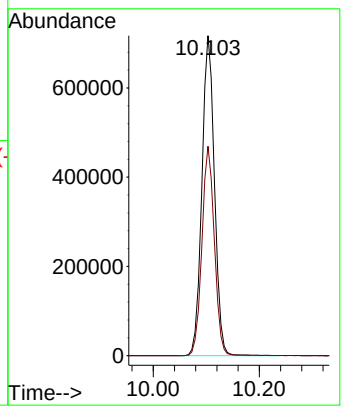


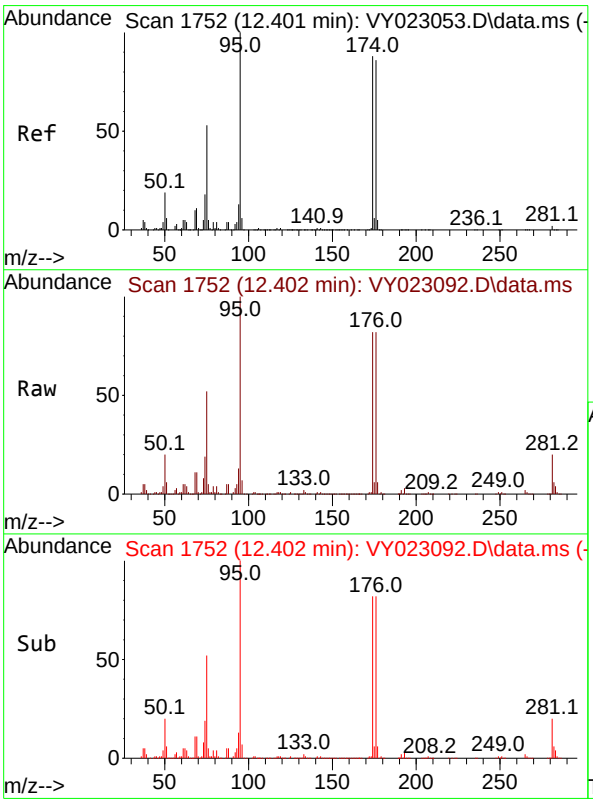
#50
Toluene-d8
Concen: 51.363 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Tgt Ion: 98 Resp: 1176737

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5

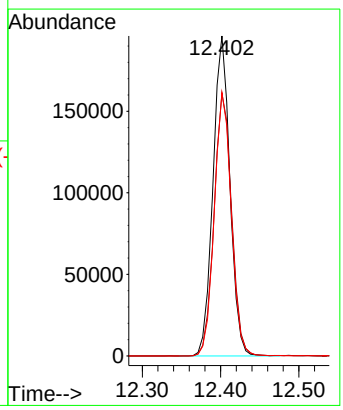


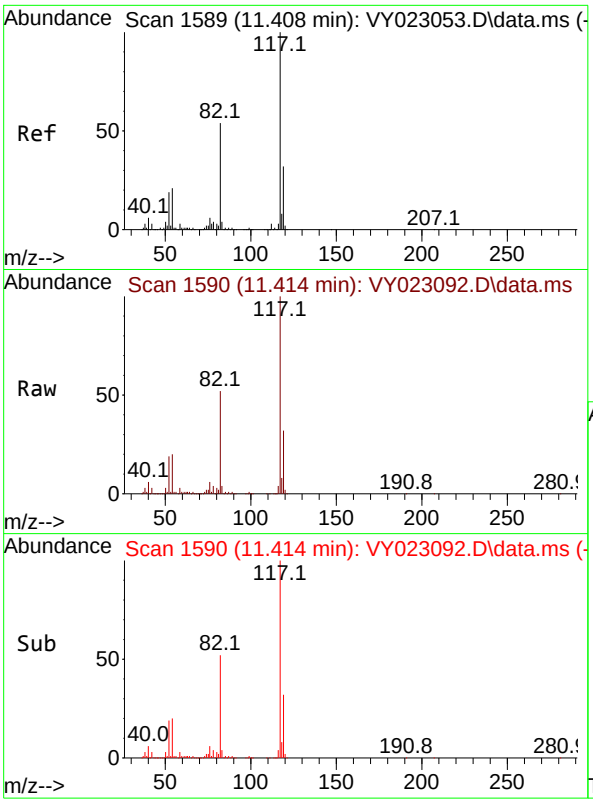


#62
4-Bromofluorobenzene
Concen: 40.002 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion: 95 Resp: 294724

Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	171.6
176	83.0	0.0	167.6



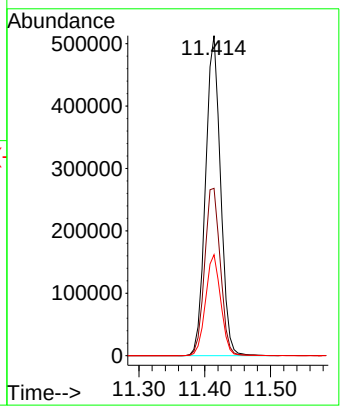


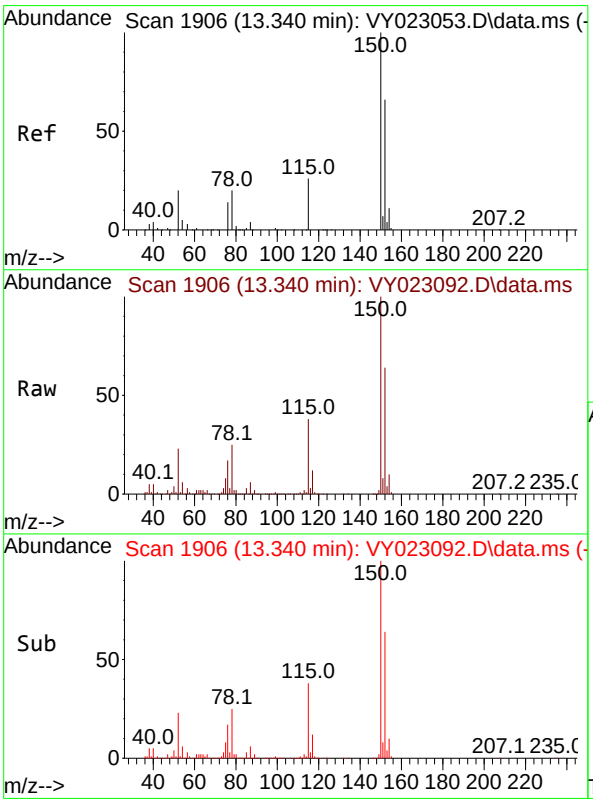
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Tgt Ion:117 Resp: 813504

Ion	Ratio	Lower	Upper
117	100		
82	52.3	43.4	65.0
119	31.6	25.6	38.4

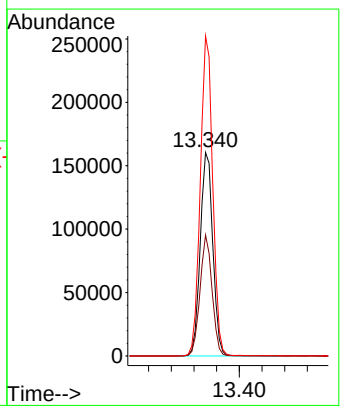




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion:152 Resp: 246483

Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.2	84.6
150	155.1	0.0	348.0



Sample Results: **VY023092.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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: VY023092.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.628	959	969	975	rBV	426171	1047753	33.92%	7.129%
2	7.707	975	982	996	rVB	640832	1491993	48.30%	10.151%
3	8.061	1030	1040	1051	rBV	374685	838961	27.16%	5.708%
4	8.610	1121	1130	1147	rBV	1154300	2243517	72.63%	15.264%
5	10.103	1365	1375	1389	rBV	1869499	3089067	100.00%	21.017%
6	11.414	1581	1590	1603	rBV	1524522	2497076	80.84%	16.989%
7	12.402	1745	1752	1762	rBV2	1125728	1948506	63.08%	13.257%
8	13.340	1892	1906	1914	rBV	981819	1507341	48.80%	10.255%
9	13.877	1989	1994	2002	rVB2	20187	33852	1.10%	0.230%

Sum of corrected areas: 14698066

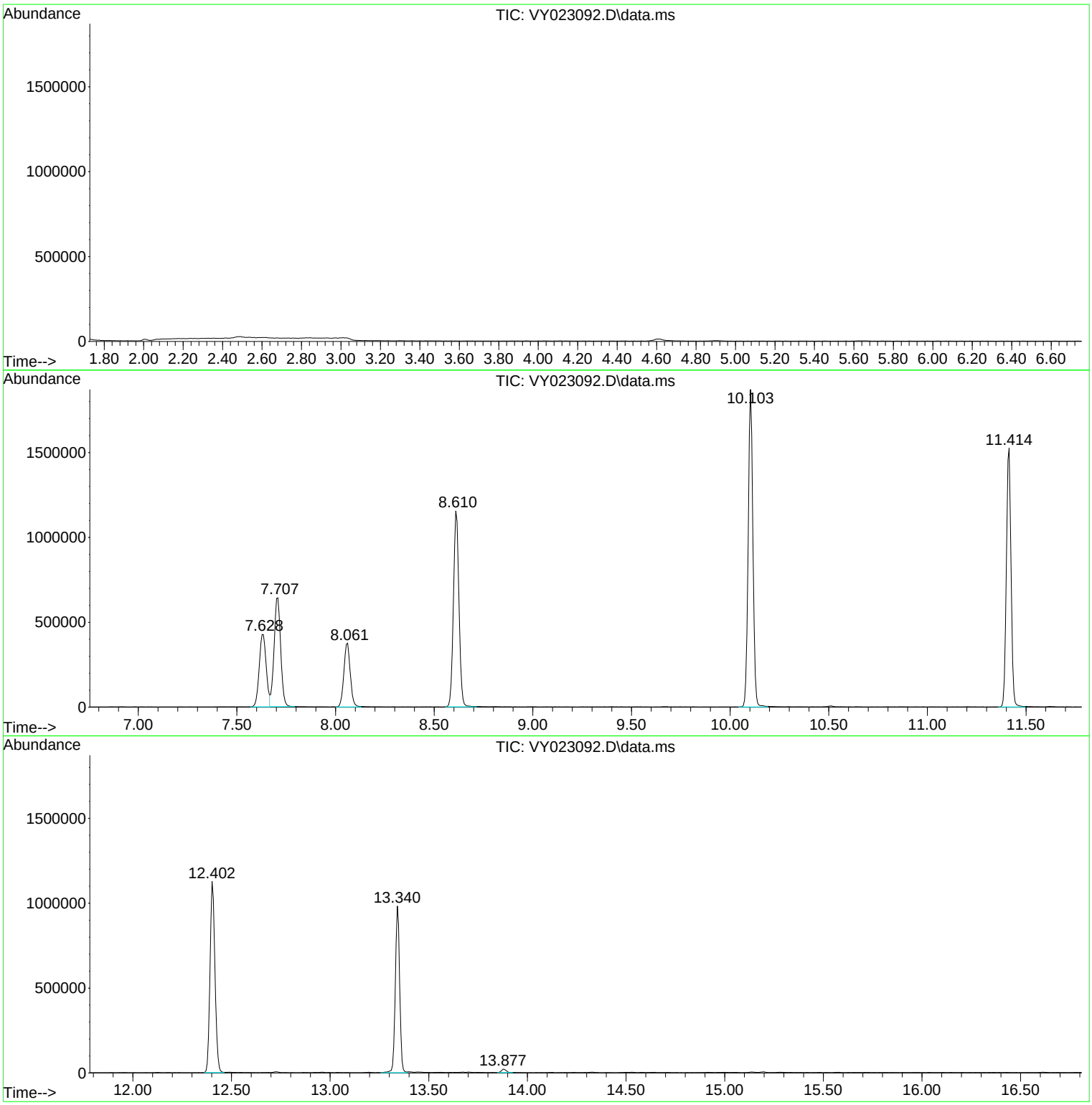
Sample Results: **VY023092.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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

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:	38M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-17	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.5
Sample Wt/Vol:	9.4 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
VY023079.D	1	08/13/25 18:51	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.40	U	0.69	2.40	3.00	ug/Kg
74-87-3	Chloromethane	1.50	U	0.69	1.50	3.00	ug/Kg
75-01-4	Vinyl Chloride	1.50	U	0.48	1.50	3.00	ug/Kg
74-83-9	Bromomethane	2.40	U	0.65	2.40	3.00	ug/Kg
75-00-3	Chloroethane	1.50	U	0.77	1.50	3.00	ug/Kg
75-69-4	Trichlorofluoromethane	2.40	U	0.74	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	0.61	1.50	3.00	ug/Kg
67-64-1	Acetone	12.2	U	2.90	12.2	15.2	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	0.94	2.40	3.00	ug/Kg
75-09-2	Methylene Chloride	4.90	U	2.10	4.90	6.10	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	0.49	1.50	3.00	ug/Kg
110-82-7	Cyclohexane	1.50	U	0.48	1.50	3.00	ug/Kg
78-93-3	2-Butanone	12.2	U	4.00	12.2	15.2	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	0.59	1.50	3.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.50	U	0.46	1.50	3.00	ug/Kg
74-97-5	Bromochloromethane	2.40	U	0.70	2.40	3.00	ug/Kg
67-66-3	Chloroform	2.40	U	0.51	2.40	3.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	0.57	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	0.48	1.50	3.00	ug/Kg
107-06-2	1,2-Dichloroethane	1.50	U	0.48	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	7.60	U	2.20	7.60	15.2	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:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-17	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.5
Sample Wt/Vol:	9.4 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
VY023079.D	1	08/13/25 18:51	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.50	U	0.40	1.50	3.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.50	U	0.38	1.50	3.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	0.56	1.50	3.00	ug/Kg
591-78-6	2-Hexanone	7.60	U	2.20	7.60	15.2	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	0.53	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	0.64	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	0.41	1.50	3.00	ug/Kg
179601-23-1	m/p-Xylenes	3.00	U	0.75	3.00	6.10	ug/Kg
95-47-6	o-Xylene	1.50	U	0.50	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	0.74	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	0.95	1.50	3.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	0.88	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	65.0		71 - 136		130%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	52.8		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		79 - 119		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	669000	7.707				
540-36-3	1,4-Difluorobenzene	1350000	8.61				
3114-55-4	Chlorobenzene-d5	1230000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	509000	13.34				

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:	38M-N	SDG No.:	Q2819
Lab Sample ID:	Q2819-17	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.5
Sample Wt/Vol:	9.4 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
VY023079.D	1	08/13/25 18:51	VY081325

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\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-N

Quant Time: Aug 14 01:28:24 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

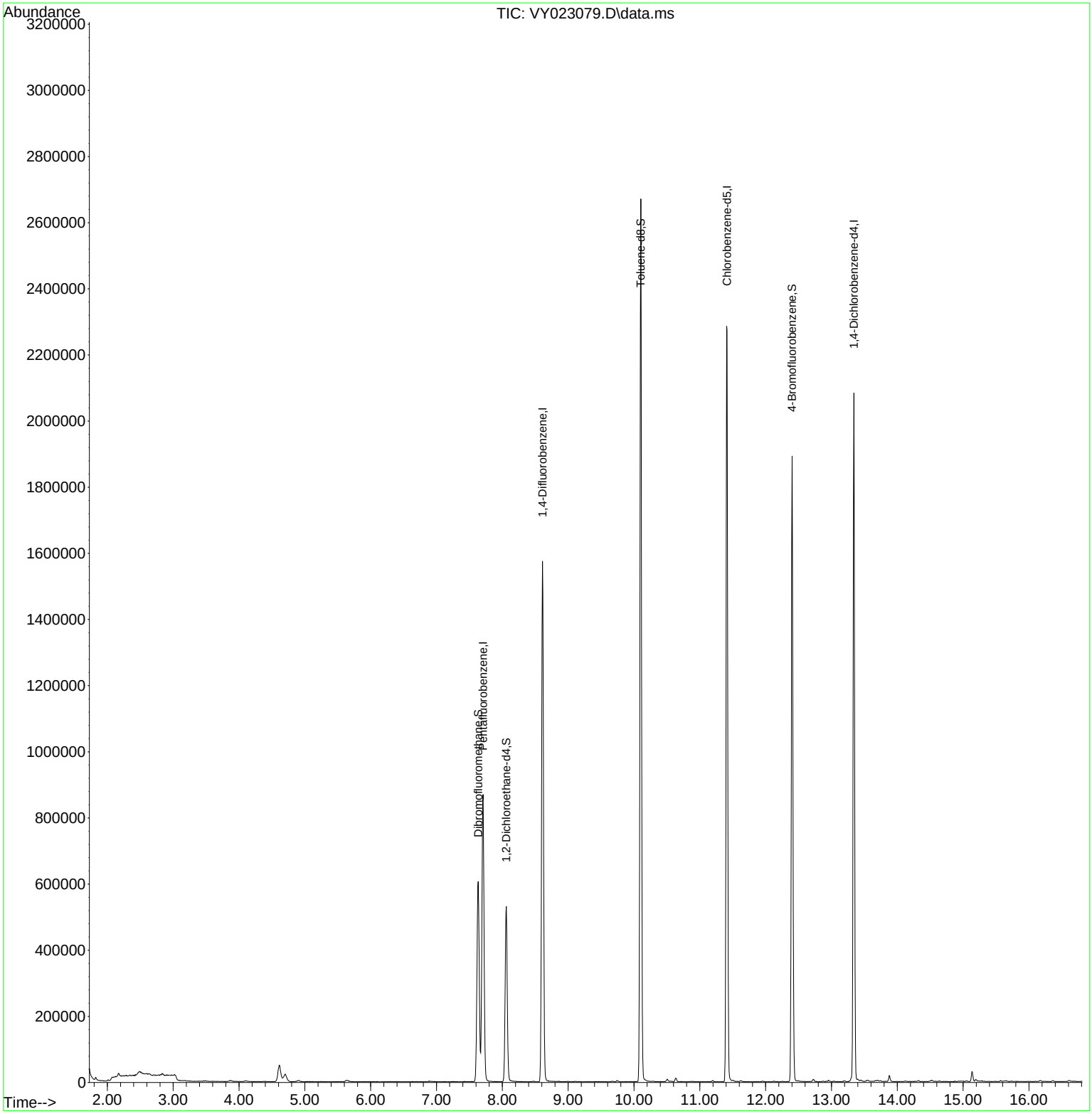
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	669452	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	1354583	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1228757	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	509432	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	414417	64.952	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 129.900%			
35) Dibromofluoromethane	7.634	113	432425	53.350	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.700%			
50) Toluene-d8	10.103	98	1670308	52.750	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.500%			
62) 4-Bromofluorobenzene	12.402	95	508089	49.895	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.780%			
Target Compounds						Qvalue

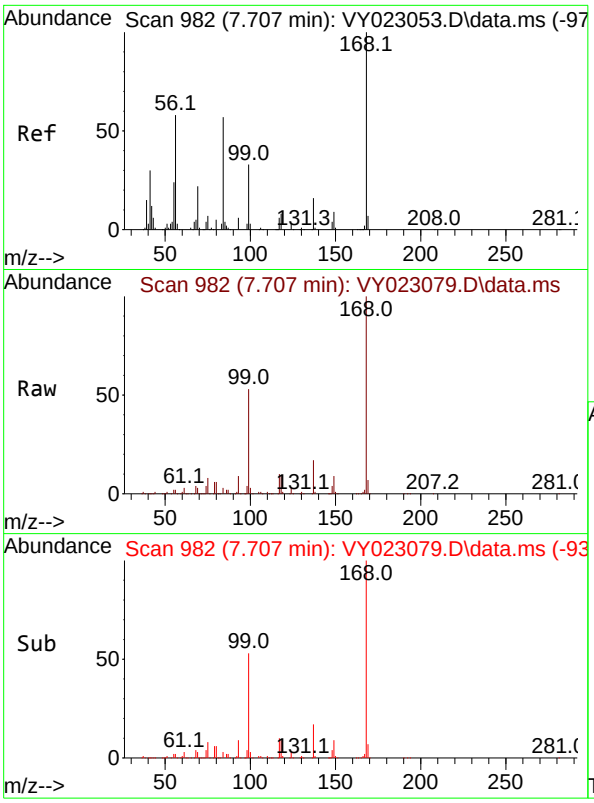
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-N

Quant Time: Aug 14 01:28:24 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



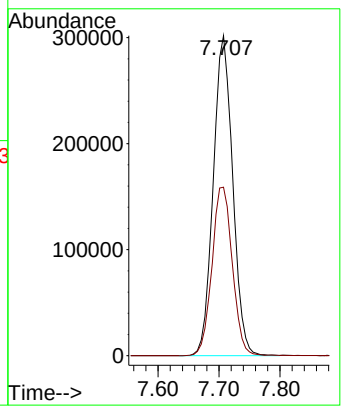


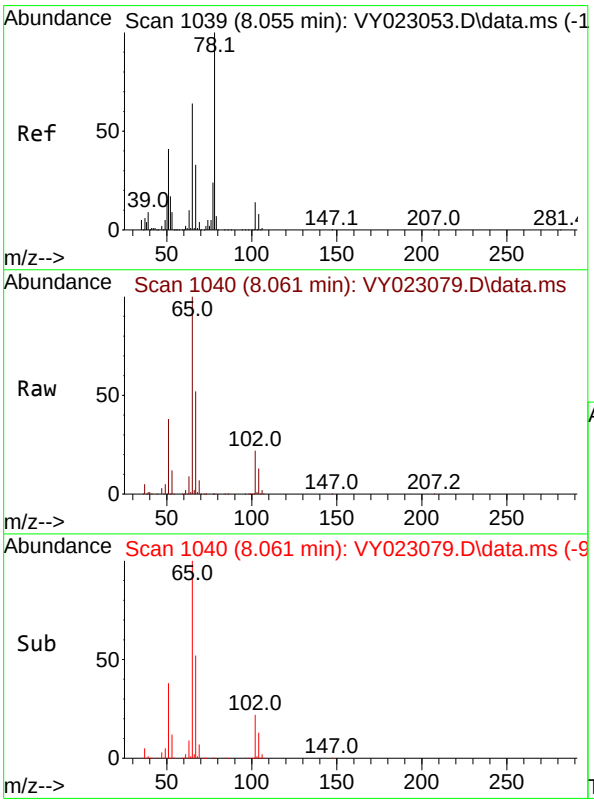
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Instrument :
MSVOA_Y
ClientSampleId :
38M-N

Tgt Ion:168 Resp: 669452

Ion	Ratio	Lower	Upper
168	100		
99	52.7	42.8	64.2

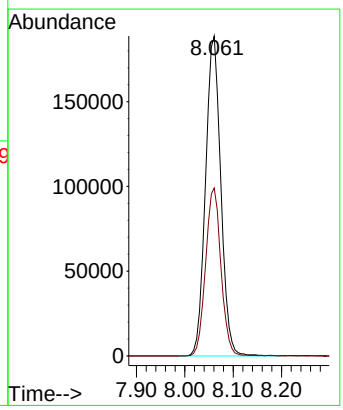


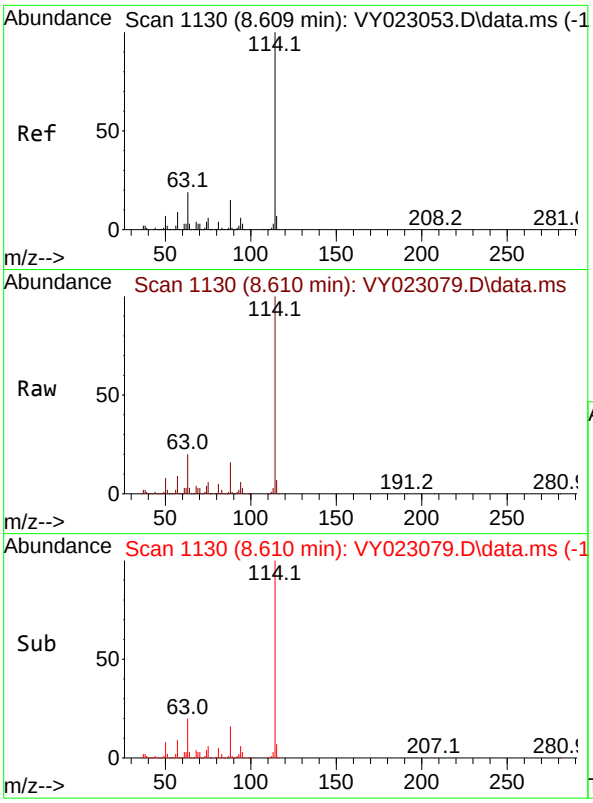


#33
1,2-Dichloroethane-d4
Concen: 64.952 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion: 65 Resp: 414417

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.8



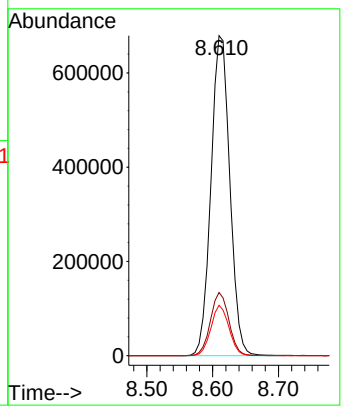


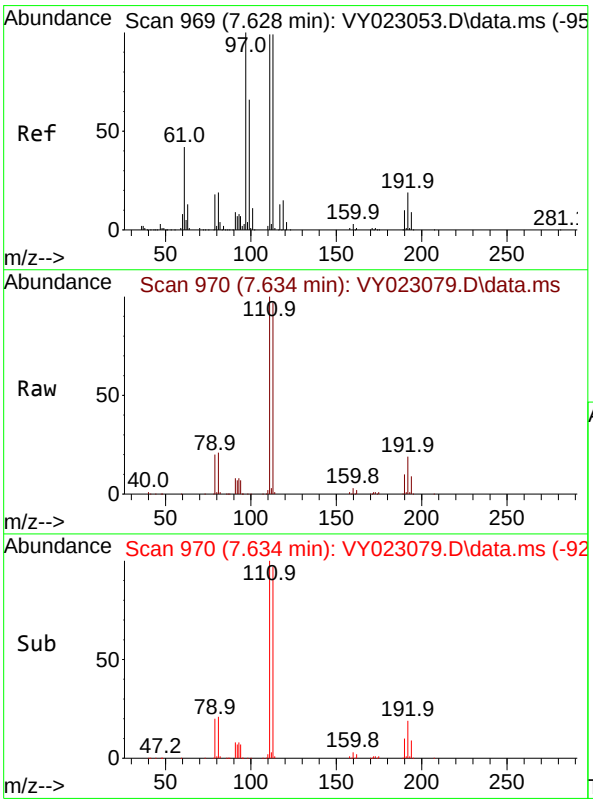
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Instrument :
MSVOA_Y
ClientSampleId :
38M-N

Tgt Ion:114 Resp: 1354583

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	38.4
88	15.7	0.0	30.0

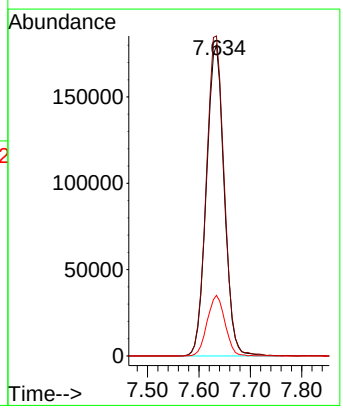


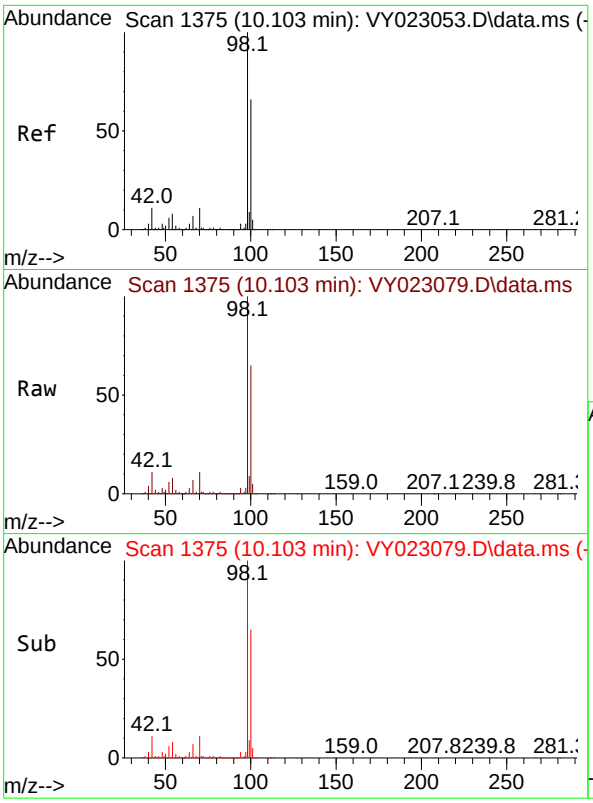


#35
Dibromofluoromethane
Concen: 53.350 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion:113 Resp: 432425

Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.1	121.7
192	19.5	16.2	24.4



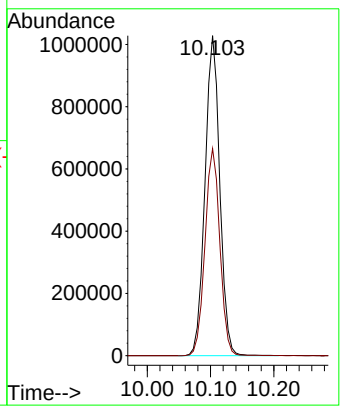


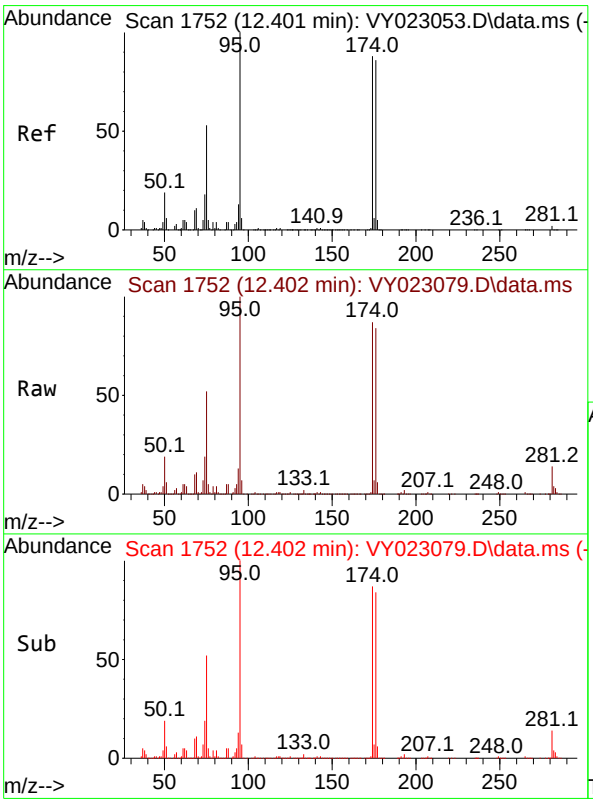
#50
Toluene-d8
Concen: 52.750 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Instrument :
MSVOA_Y
ClientSampleId :
38M-N

Tgt Ion: 98 Resp: 1670308

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

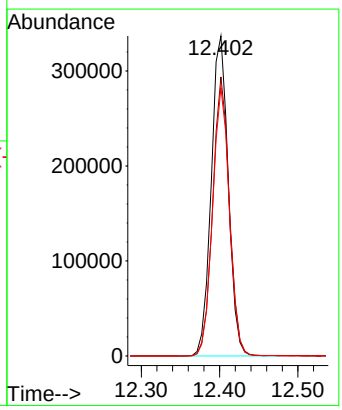


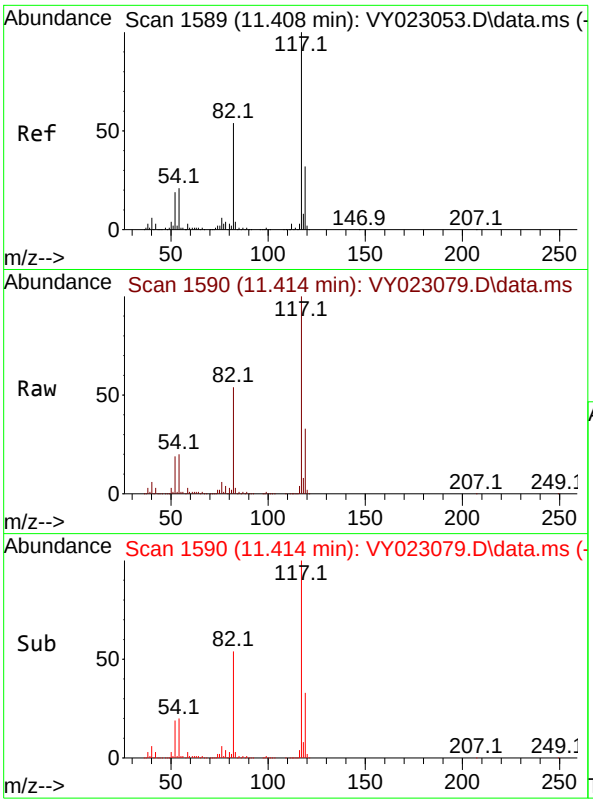


#62
4-Bromofluorobenzene
Concen: 49.895 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion: 95 Resp: 508089

Ion	Ratio	Lower	Upper
95	100		
174	85.6	0.0	171.6
176	82.9	0.0	167.6



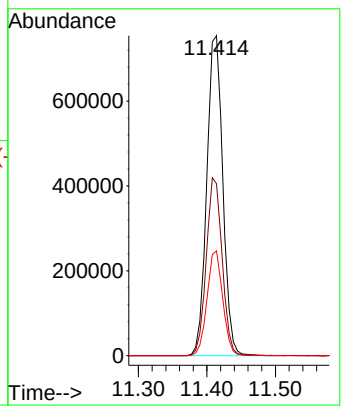


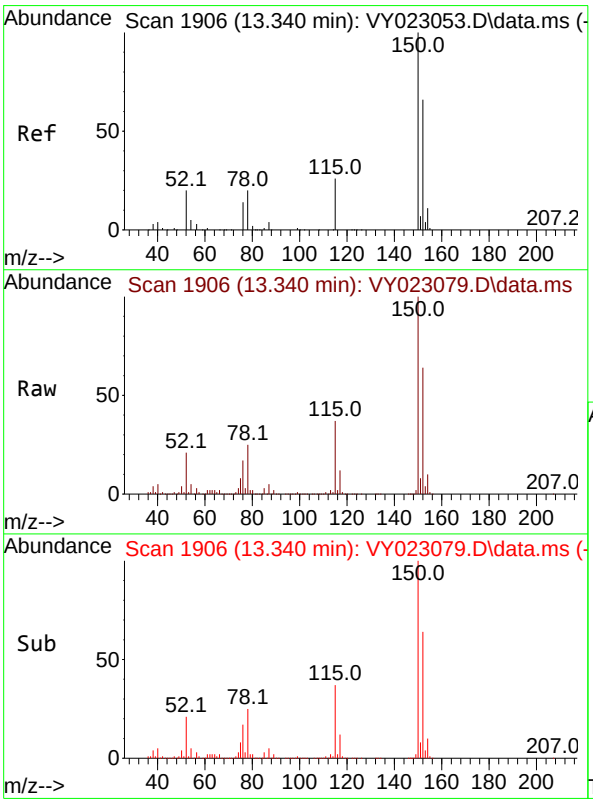
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Instrument :
MSVOA_Y
ClientSampleId :
38M-N

Tgt Ion:117 Resp: 1228757

Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.4	65.0
119	32.7	25.6	38.4

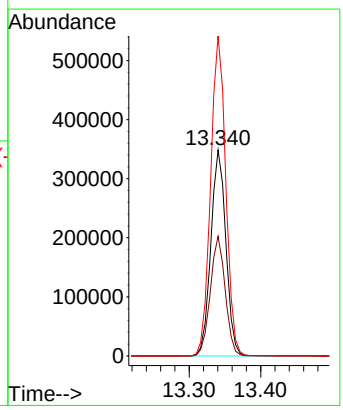




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion:152 Resp: 509432

Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.2	84.6
150	156.3	0.0	348.0



Sample Results: **VY023079.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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: VY023079.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	463	474	482	rBV	49575	153928	3.50%	0.689%
2	4.702	483	489	503	rVB3	22791	73445	1.67%	0.329%
3	7.634	958	970	976	rBV	605399	1468048	33.41%	6.576%
4	7.707	976	982	993	rVB	866218	1943161	44.22%	8.704%
5	8.061	1029	1040	1052	rBV	530358	1174427	26.73%	5.261%
6	8.610	1121	1130	1142	rBV	1574614	3104458	70.64%	13.906%
7	10.103	1366	1375	1392	rBV	2669785	4394455	100.00%	19.684%
8	11.408	1582	1589	1602	rBV	2284205	3750588	85.35%	16.800%
9	12.402	1742	1752	1764	rBV2	1892445	3105679	70.67%	13.911%
10	13.340	1892	1906	1914	rBV	2082756	3105953	70.68%	13.913%
11	15.139	2195	2201	2206	rBV	30136	50763	1.16%	0.227%

Sum of corrected areas: 22324905

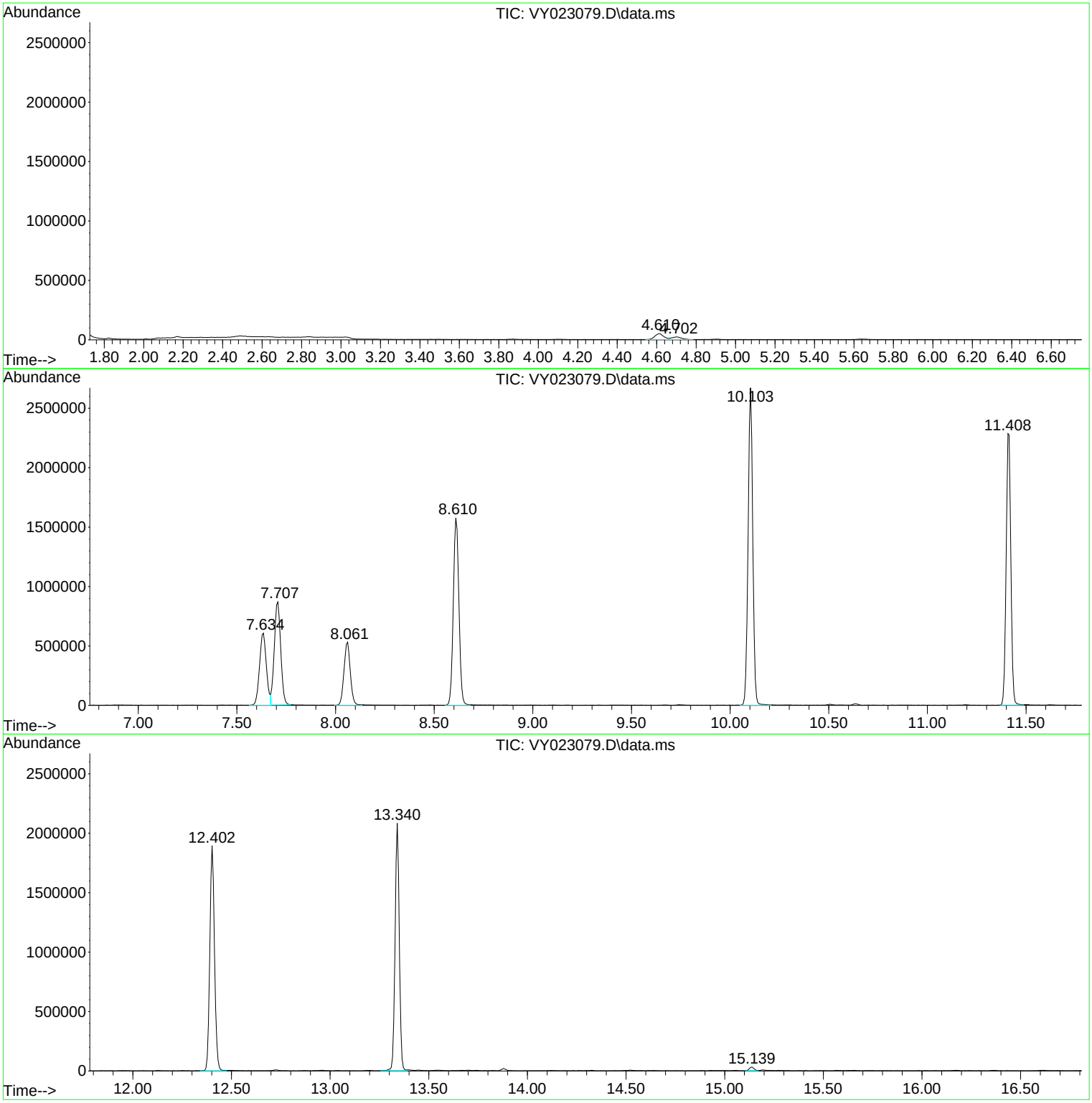
Sample Results: **VY023079.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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

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

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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:	38M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-18	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.3
Sample Wt/Vol:	9.39 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
VY023080.D	1	08/13/25 19:14	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	2.50	U	0.70	2.50	3.10	ug/Kg
74-87-3	Chloromethane	1.50	U	0.70	1.50	3.10	ug/Kg
75-01-4	Vinyl Chloride	1.50	U	0.49	1.50	3.10	ug/Kg
74-83-9	Bromomethane	2.50	U	0.66	2.50	3.10	ug/Kg
75-00-3	Chloroethane	1.50	U	0.78	1.50	3.10	ug/Kg
75-69-4	Trichlorofluoromethane	2.50	U	0.75	2.50	3.10	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	1.50	U	0.65	1.50	3.10	ug/Kg
75-35-4	1,1-Dichloroethene	1.50	U	0.62	1.50	3.10	ug/Kg
67-64-1	Acetone	12.3	U	2.90	12.3	15.4	ug/Kg
75-15-0	Carbon Disulfide	2.50	U	0.65	2.50	3.10	ug/Kg
1634-04-4	Methyl tert-butyl Ether	1.50	U	0.45	1.50	3.10	ug/Kg
79-20-9	Methyl Acetate	2.50	U	0.95	2.50	3.10	ug/Kg
75-09-2	Methylene Chloride	4.90	U	2.20	4.90	6.20	ug/Kg
156-60-5	trans-1,2-Dichloroethene	1.50	U	0.53	1.50	3.10	ug/Kg
75-34-3	1,1-Dichloroethane	1.50	U	0.49	1.50	3.10	ug/Kg
110-82-7	Cyclohexane	1.50	U	0.49	1.50	3.10	ug/Kg
78-93-3	2-Butanone	12.3	U	4.00	12.3	15.4	ug/Kg
56-23-5	Carbon Tetrachloride	1.50	U	0.60	1.50	3.10	ug/Kg
156-59-2	cis-1,2-Dichloroethene	1.50	U	0.46	1.50	3.10	ug/Kg
74-97-5	Bromochloromethane	2.50	U	0.71	2.50	3.10	ug/Kg
67-66-3	Chloroform	2.50	U	0.52	2.50	3.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.50	U	0.57	1.50	3.10	ug/Kg
108-87-2	Methylcyclohexane	1.50	U	0.56	1.50	3.10	ug/Kg
71-43-2	Benzene	1.50	U	0.49	1.50	3.10	ug/Kg
107-06-2	1,2-Dichloroethane	1.50	U	0.49	1.50	3.10	ug/Kg
79-01-6	Trichloroethene	1.50	U	0.50	1.50	3.10	ug/Kg
78-87-5	1,2-Dichloropropane	1.50	U	0.56	1.50	3.10	ug/Kg
75-27-4	Bromodichloromethane	1.50	U	0.48	1.50	3.10	ug/Kg
108-10-1	4-Methyl-2-Pentanone	7.70	U	2.20	7.70	15.4	ug/Kg
108-88-3	Toluene	1.50	U	0.48	1.50	3.10	ug/Kg

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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:	38M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-18	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.3
Sample Wt/Vol:	9.39 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
VY023080.D	1	08/13/25 19:14	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	1.50	U	0.40	1.50	3.10	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	1.50	U	0.38	1.50	3.10	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.50	U	0.57	1.50	3.10	ug/Kg
591-78-6	2-Hexanone	7.70	U	2.30	7.70	15.4	ug/Kg
124-48-1	Dibromochloromethane	1.50	U	0.54	1.50	3.10	ug/Kg
106-93-4	1,2-Dibromoethane	1.50	U	0.54	1.50	3.10	ug/Kg
127-18-4	Tetrachloroethene	1.50	U	0.65	1.50	3.10	ug/Kg
108-90-7	Chlorobenzene	1.50	U	0.56	1.50	3.10	ug/Kg
100-41-4	Ethyl Benzene	1.50	U	0.41	1.50	3.10	ug/Kg
179601-23-1	m/p-Xylenes	3.10	U	0.77	3.10	6.20	ug/Kg
95-47-6	o-Xylene	1.50	U	0.51	1.50	3.10	ug/Kg
100-42-5	Styrene	1.50	U	0.44	1.50	3.10	ug/Kg
75-25-2	Bromoform	1.50	U	0.53	1.50	3.10	ug/Kg
98-82-8	Isopropylbenzene	1.50	U	0.48	1.50	3.10	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.50	U	0.75	1.50	3.10	ug/Kg
541-73-1	1,3-Dichlorobenzene	1.50	U	1.10	1.50	3.10	ug/Kg
106-46-7	1,4-Dichlorobenzene	1.50	U	0.96	1.50	3.10	ug/Kg
95-50-1	1,2-Dichlorobenzene	1.50	U	0.89	1.50	3.10	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	2.50	U	1.10	2.50	3.10	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	2.50	U	1.80	2.50	3.10	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	2.50	U	2.00	2.50	3.10	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	61.8		71 - 136		124%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	52.8		85 - 116		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		79 - 119		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	629000	7.707				
540-36-3	1,4-Difluorobenzene	1260000	8.609				
3114-55-4	Chlorobenzene-d5	1130000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	454000	13.34				

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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:	38M-W	SDG No.:	Q2819
Lab Sample ID:	Q2819-18	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.3
Sample Wt/Vol:	9.39 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
VY023080.D	1	08/13/25 19:14	VY081325

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\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-W

Quant Time: Aug 14 01:28:46 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	629431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1263312	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1125973	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	453970	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	370843	61.818	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 123.640%			
35) Dibromofluoromethane	7.628	113	403184	53.336	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.680%			
50) Toluene-d8	10.103	98	1558908	52.789	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.580%			
62) 4-Bromofluorobenzene	12.401	95	454520	47.859	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.720%			

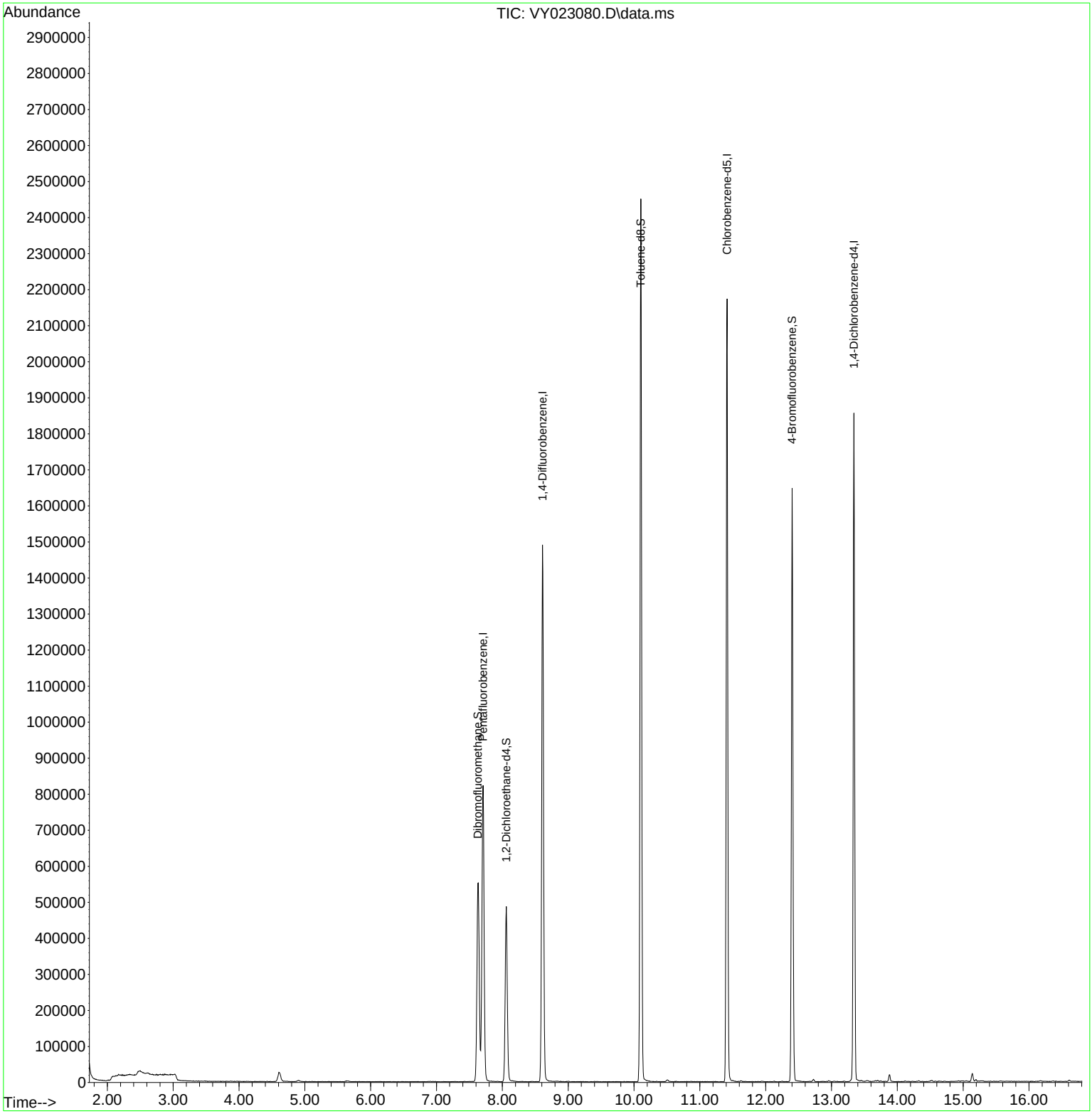
Target Compounds Qvalue

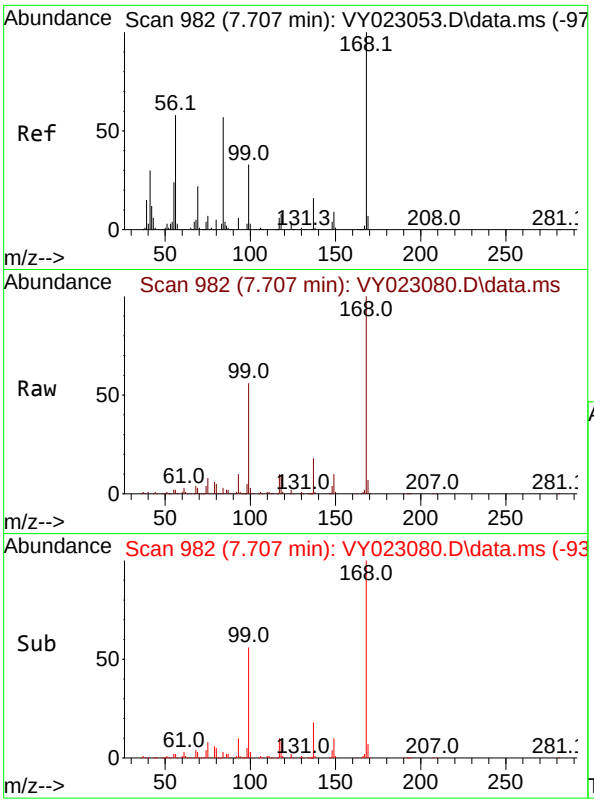
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-W

Quant Time: Aug 14 01:28:46 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



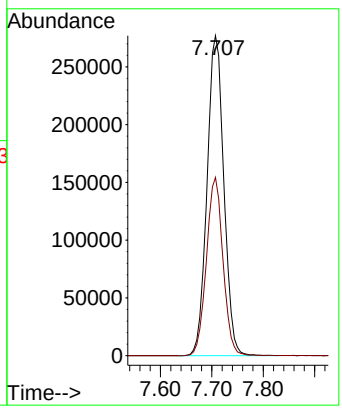


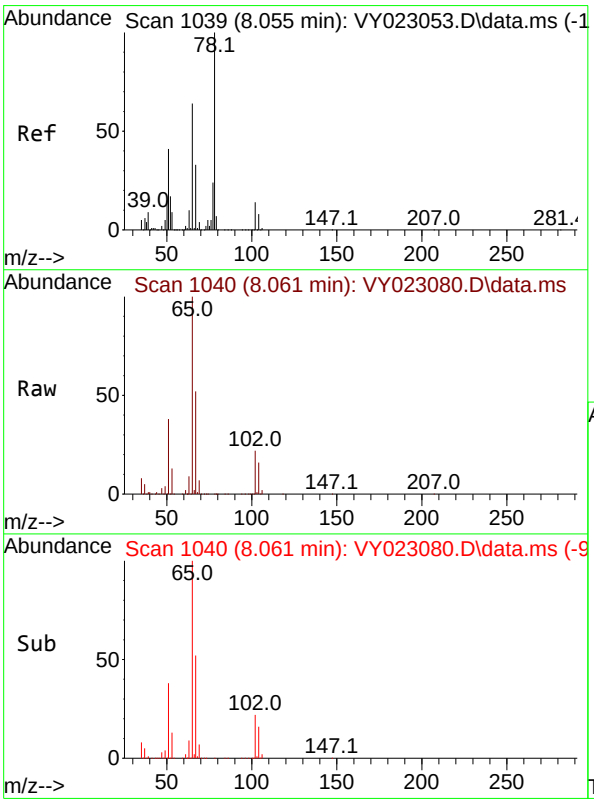
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Instrument :
MSVOA_Y
ClientSampleId :
38M-W

Tgt Ion:168 Resp: 629431

Ion	Ratio	Lower	Upper
168	100		
99	55.7	42.8	64.2

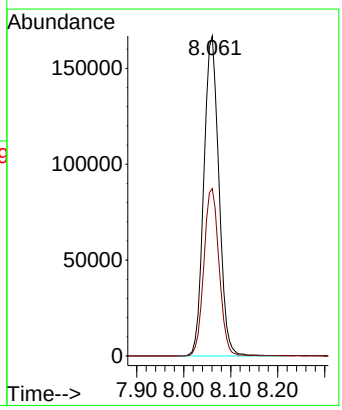


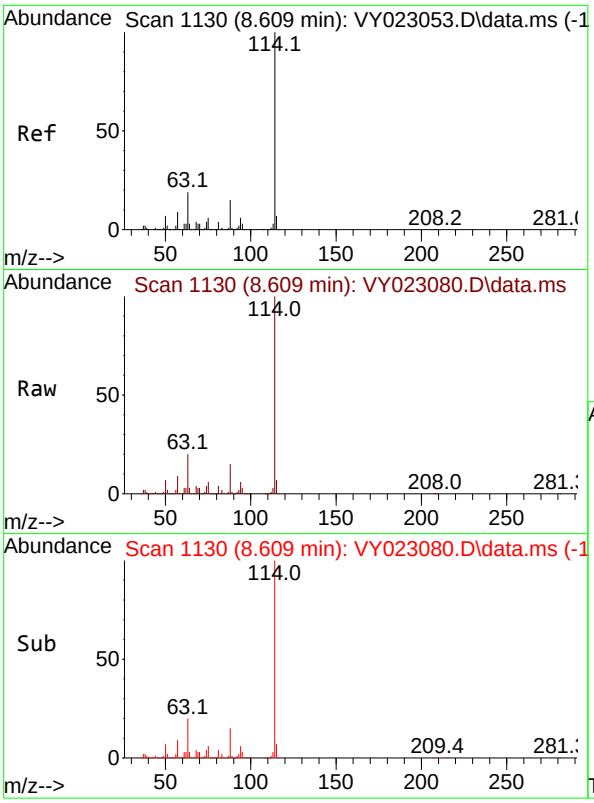


#33
1,2-Dichloroethane-d4
Concen: 61.818 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion: 65 Resp: 370843

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	106.8



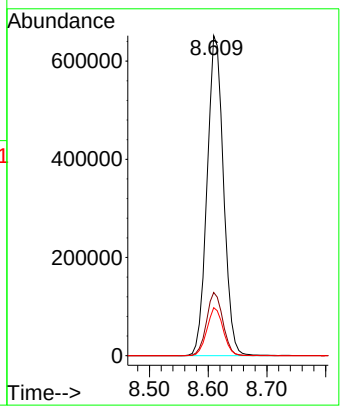


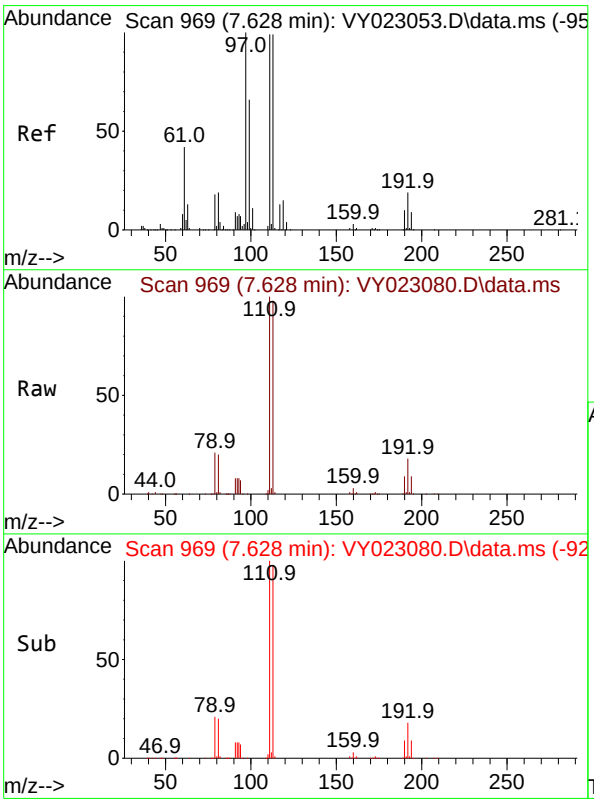
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Instrument :
MSVOA_Y
ClientSampleId :
38M-W

Tgt Ion:114 Resp: 1263312

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	38.4
88	15.0	0.0	30.0

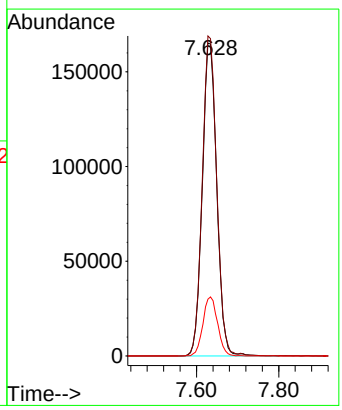


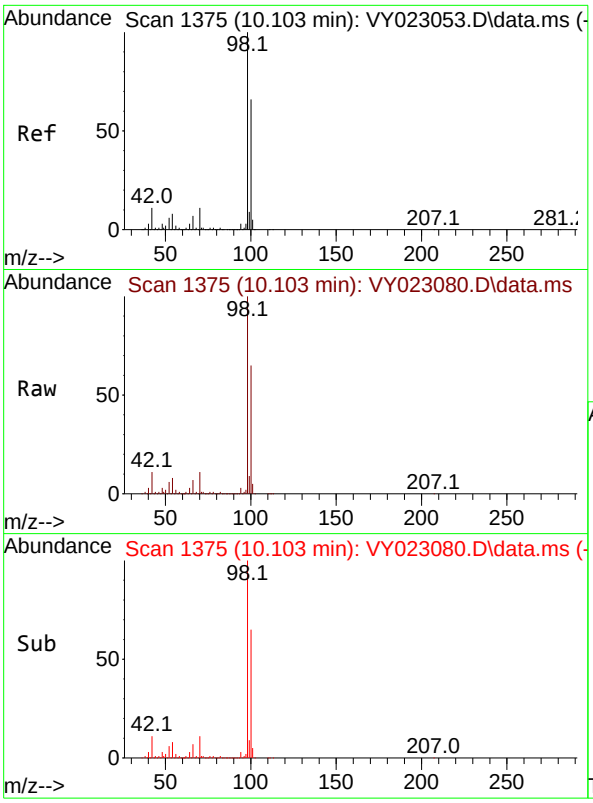


#35
Dibromofluoromethane
Concen: 53.336 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion:113 Resp: 403184

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.1	121.7
192	19.1	16.2	24.4



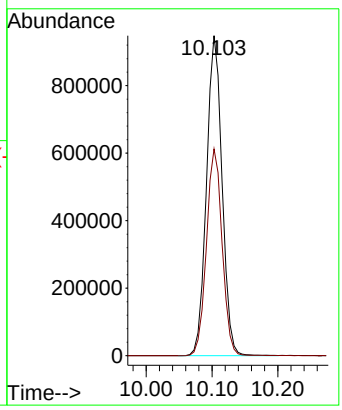


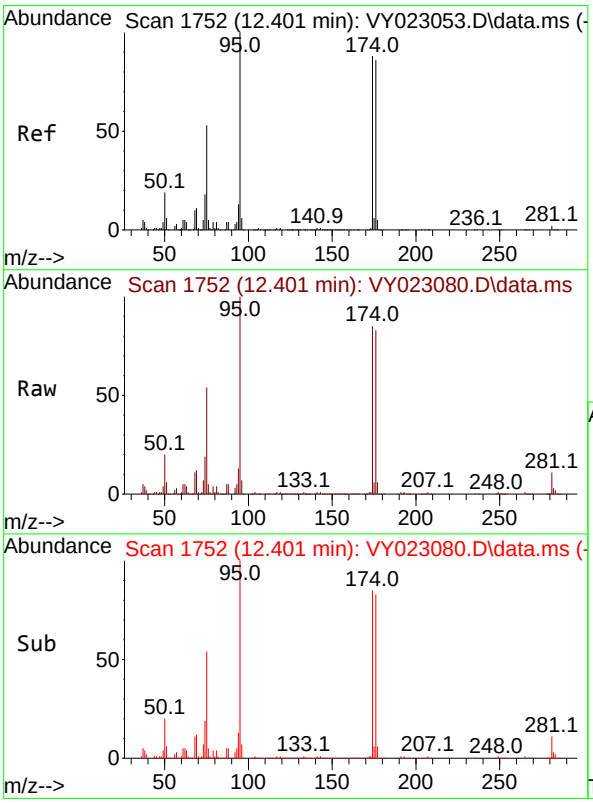
#50
Toluene-d8
Concen: 52.789 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Instrument :
MSVOA_Y
ClientSampleId :
38M-W

Tgt Ion: 98 Resp: 1558908

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5

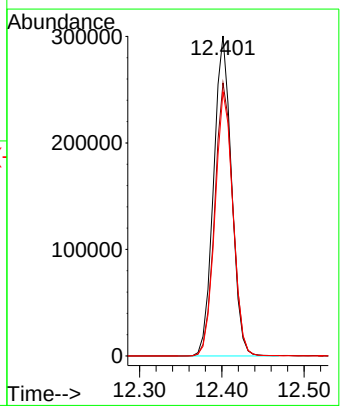


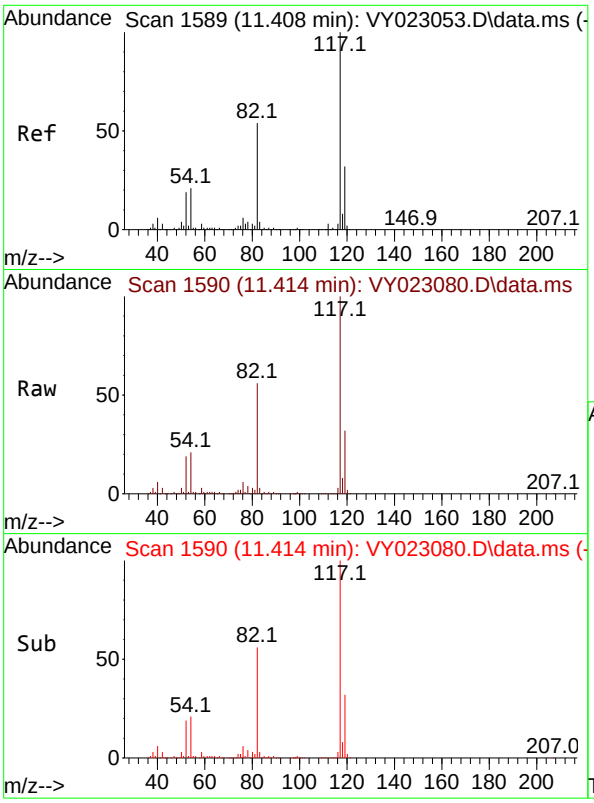


#62
4-Bromofluorobenzene
Concen: 47.859 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion: 95 Resp: 454520

Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	171.6
176	82.7	0.0	167.6



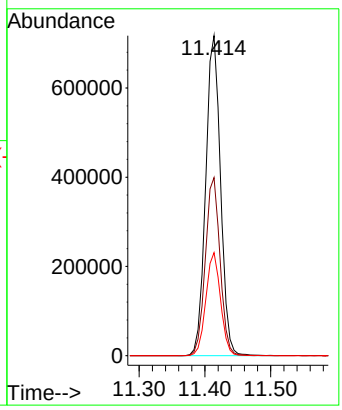


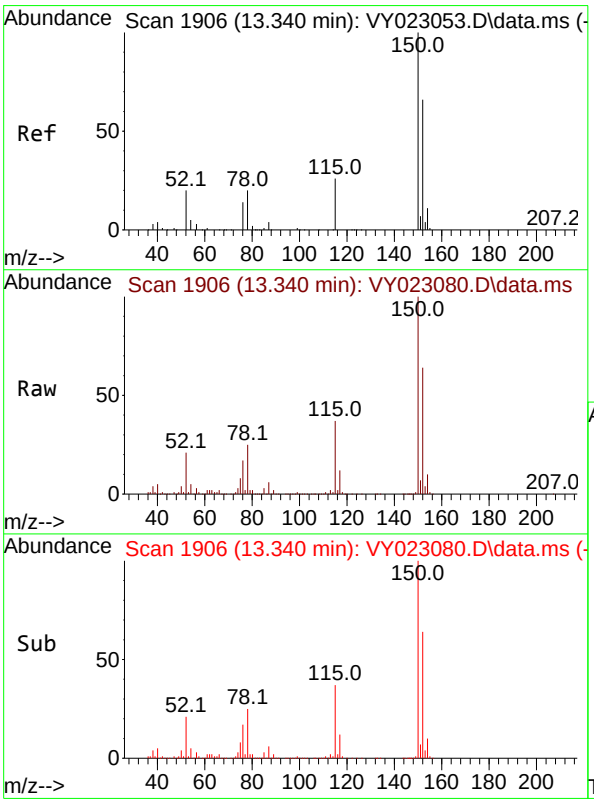
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Instrument :
MSVOA_Y
ClientSampleId :
38M-W

Tgt Ion:117 Resp: 1125973

Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.4	65.0
119	32.2	25.6	38.4

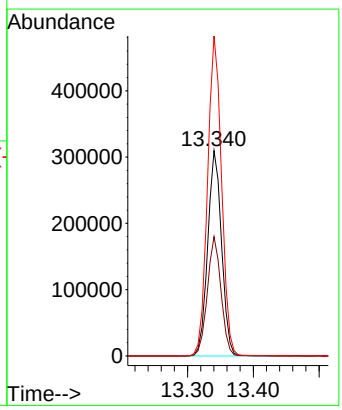




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion:152 Resp: 453970

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.2	84.6
150	157.5	0.0	348.0



Sample Results: **VY023080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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: VY023080.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.604	464	473	485	rBV3	25893	78248	1.91%	0.387%
2	7.634	958	970	976	rBV	551376	1354289	33.11%	6.693%
3	7.707	976	982	998	rVB	821069	1840072	44.99%	9.094%
4	8.061	1029	1040	1054	rBV	486143	1063876	26.01%	5.258%
5	8.609	1120	1130	1146	rBV	1489860	2897683	70.84%	14.321%
6	10.103	1367	1375	1395	rBV	2449861	4090412	100.00%	20.216%
7	11.414	1582	1590	1602	rBV	2172936	3436880	84.02%	16.986%
8	12.401	1741	1752	1765	rBV2	1647218	2695833	65.91%	13.324%
9	13.340	1893	1906	1921	rBV	1855044	2775852	67.86%	13.719%

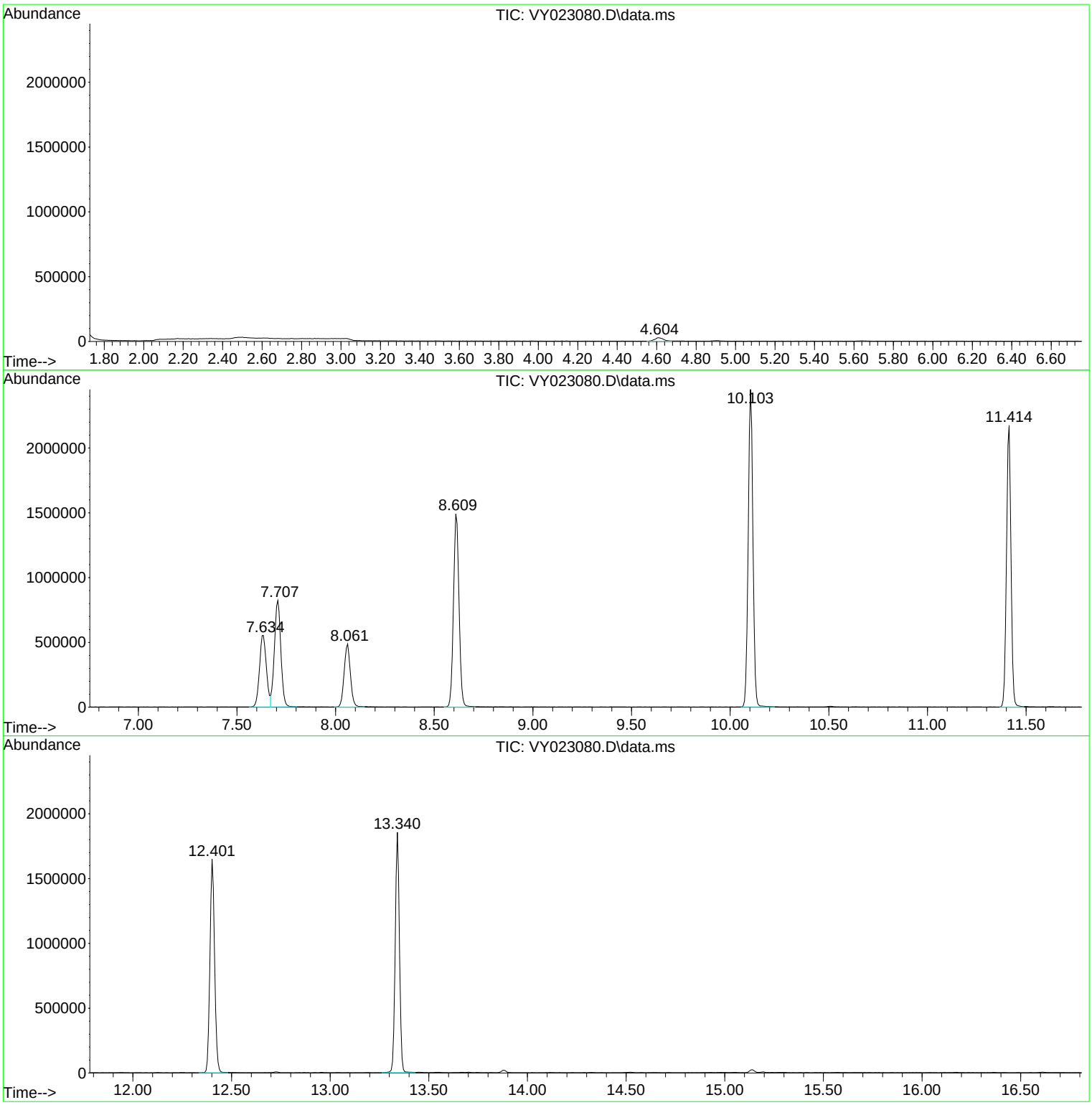
Sum of corrected areas: 20233145

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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

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

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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:	38M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-19	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.8
Sample Wt/Vol:	6.73 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
VY023081.D	1	08/13/25 19:38	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	3.40	U	0.96	3.40	4.20	ug/Kg
74-87-3	Chloromethane	2.10	U	0.96	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	16.9	U	4.00	16.9	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	16.9	U	5.50	16.9	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	0.63	2.10	4.20	ug/Kg
74-97-5	Bromochloromethane	3.40	U	0.97	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:	08/06/25
Project:	USACE018-44 DOD	Date Received:	08/08/25
Client Sample ID:	38M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-19	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.8
Sample Wt/Vol:	6.73 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
VY023081.D	1	08/13/25 19:38	VY081325

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	0.52	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	0.74	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	1.00	4.20	8.50	ug/Kg
95-47-6	o-Xylene	2.10	U	0.69	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	1.40	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	62.0		71 - 136		124%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	52.4		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.6		79 - 119		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	641000	7.707				
540-36-3	1,4-Difluorobenzene	1280000	8.61				
3114-55-4	Chlorobenzene-d5	1110000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	424000	13.34				

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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:	38M-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-19	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	87.8
Sample Wt/Vol:	6.73 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
VY023081.D	1	08/13/25 19:38	VY081325

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\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-E

Quant Time: Aug 14 01:29:07 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	641351	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	1276856	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1106347	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	424298	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	379278	62.049	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.100%			
35) Dibromofluoromethane	7.628	113	407347	53.316	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.640%			
50) Toluene-d8	10.103	98	1563625	52.387	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.780%			
62) 4-Bromofluorobenzene	12.402	95	438170	45.648	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.300%			

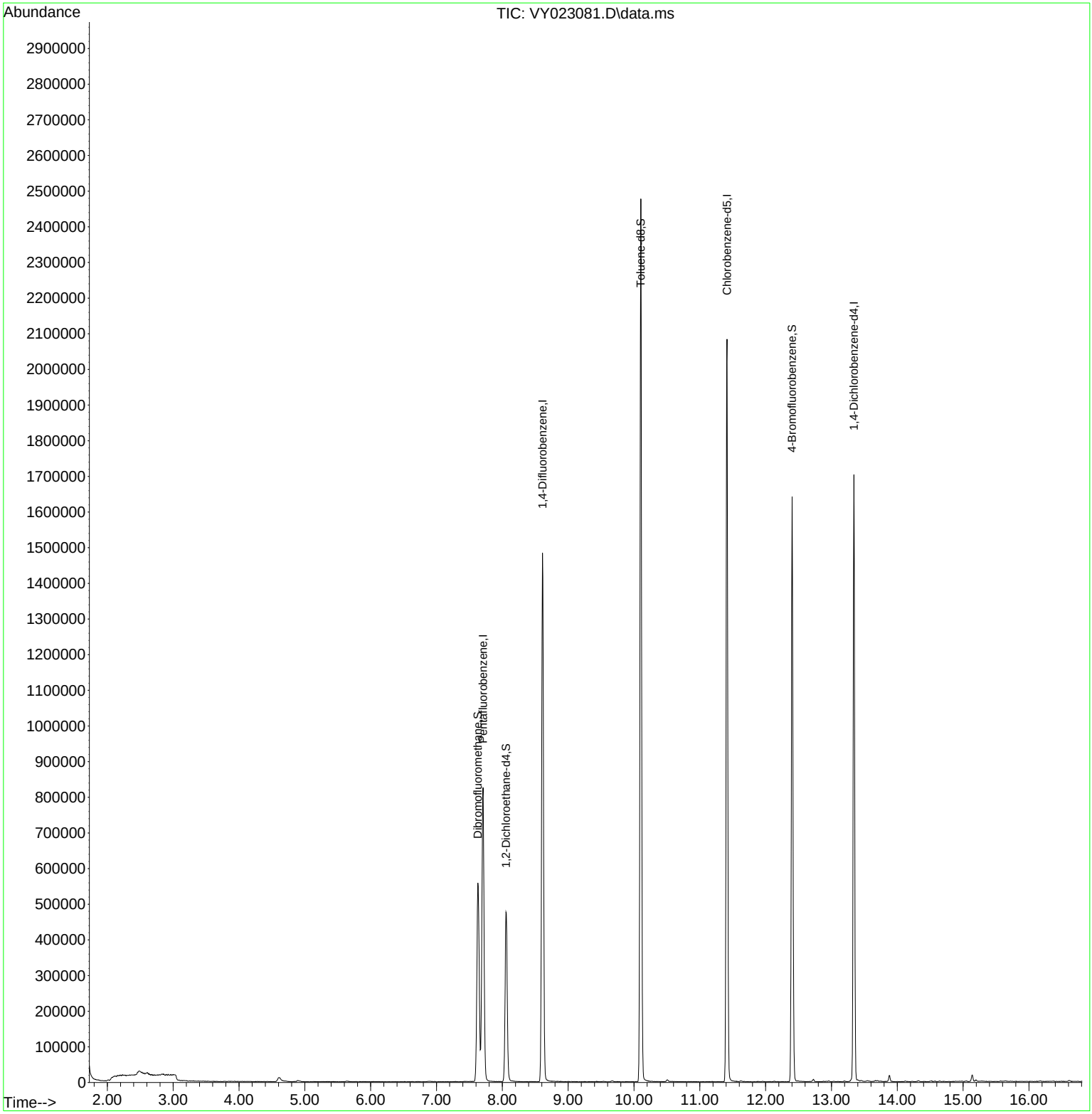
Target Compounds Qvalue

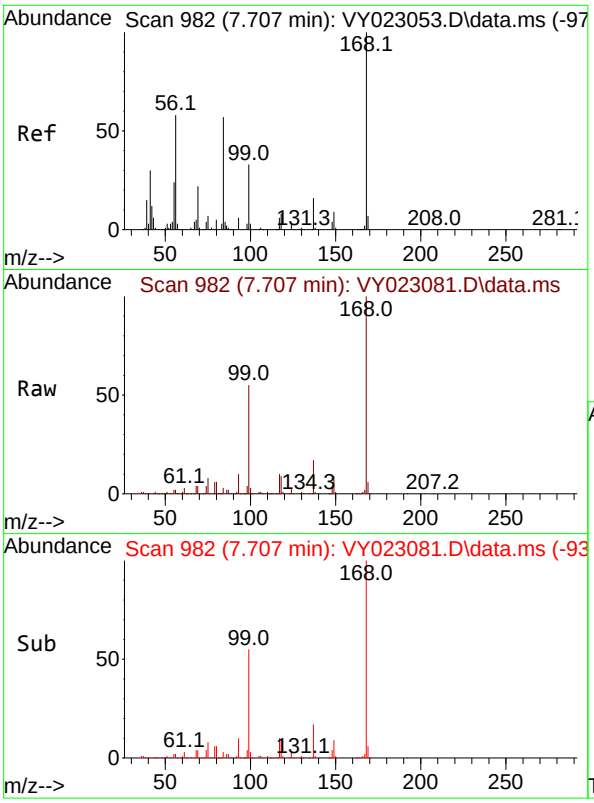
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-E

Quant Time: Aug 14 01:29:07 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



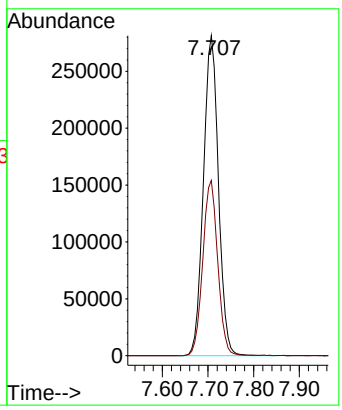


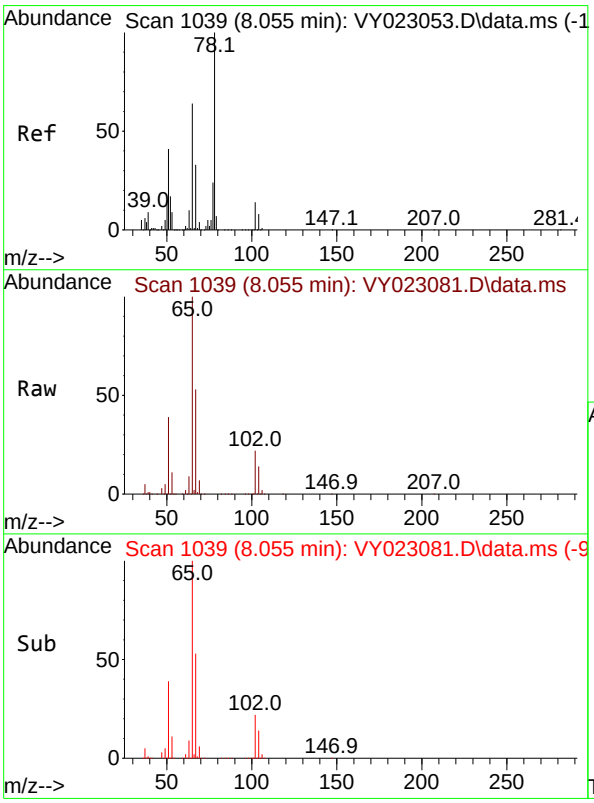
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Instrument :
MSVOA_Y
ClientSampleId :
38M-E

Tgt Ion:168 Resp: 641351

Ion	Ratio	Lower	Upper
168	100		
99	54.7	42.8	64.2

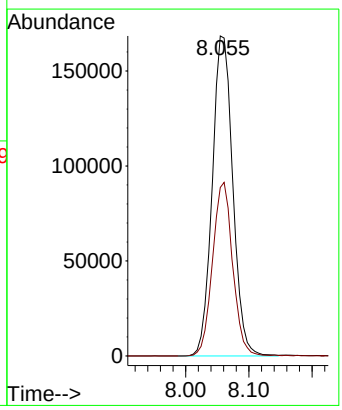


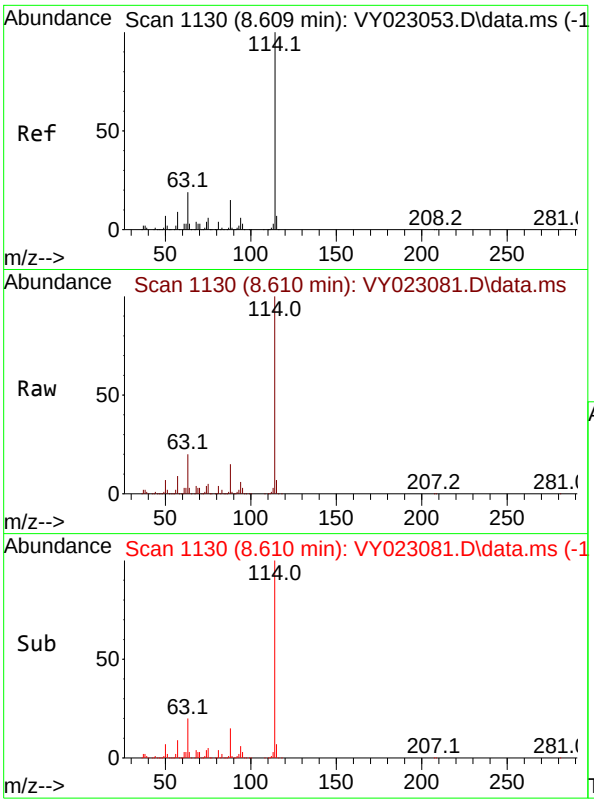


#33
1,2-Dichloroethane-d4
Concen: 62.049 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion: 65 Resp: 379278

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8



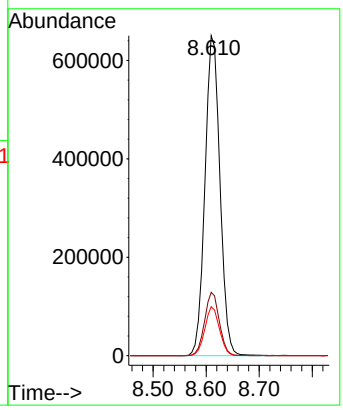


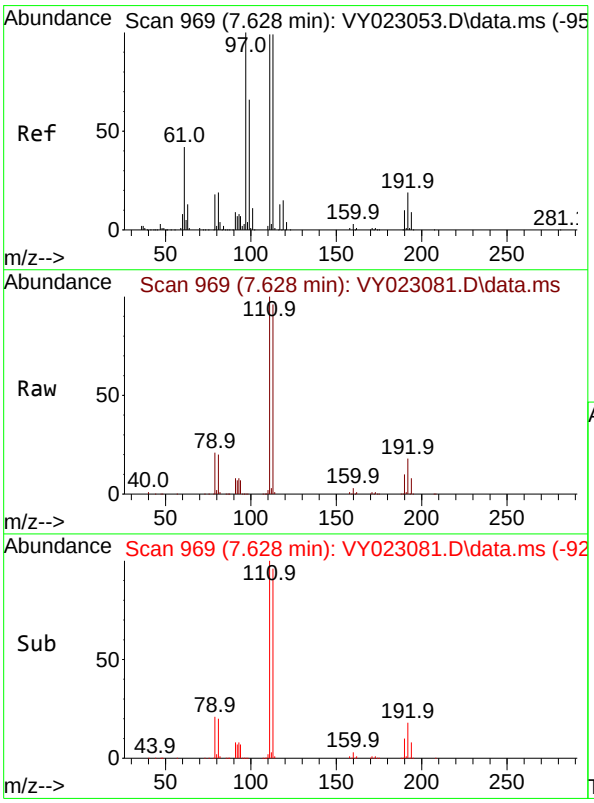
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Instrument :
MSVOA_Y
ClientSampleId :
38M-E

Tgt Ion:114 Resp: 1276856

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.3	0.0	30.0

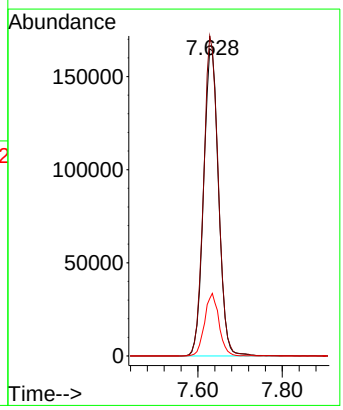


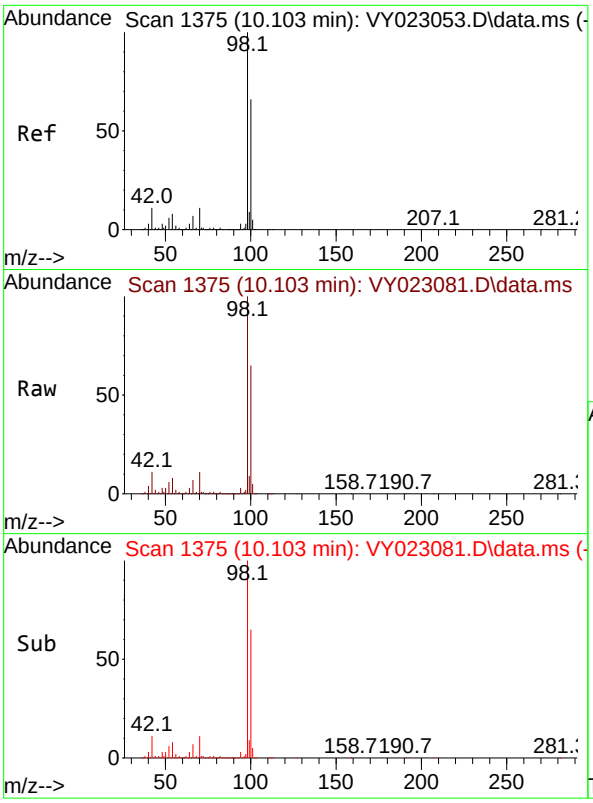


#35
Dibromofluoromethane
Concen: 53.316 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion:113 Resp: 407347

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.1	121.7
192	19.6	16.2	24.4



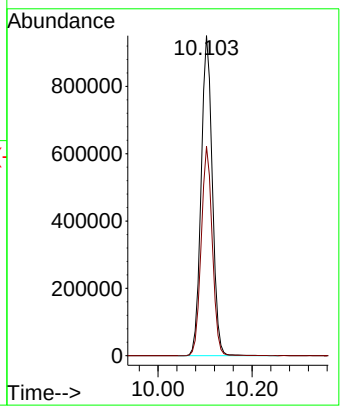


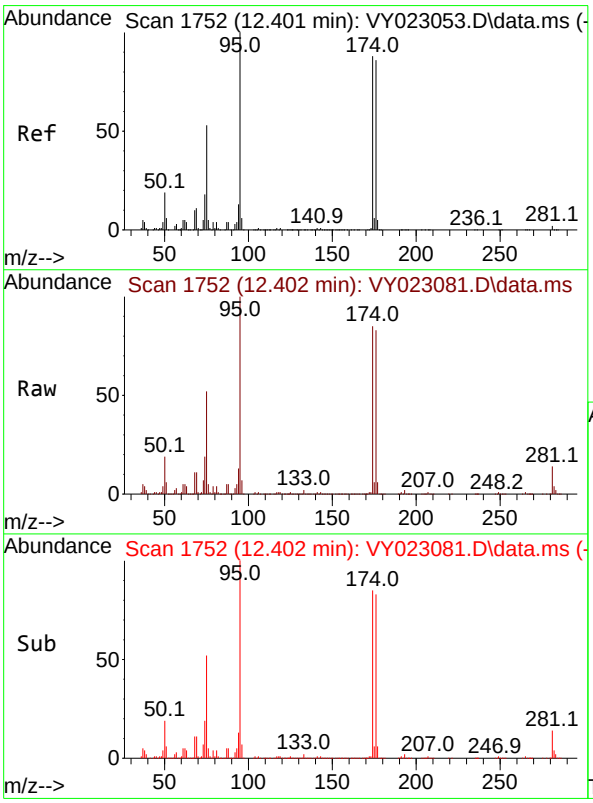
#50
Toluene-d8
Concen: 52.387 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Instrument :
MSVOA_Y
ClientSampleId :
38M-E

Tgt Ion: 98 Resp: 1563625

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.3	78.5

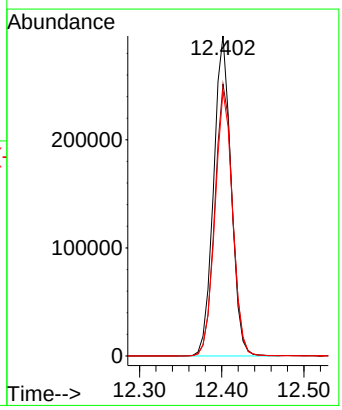


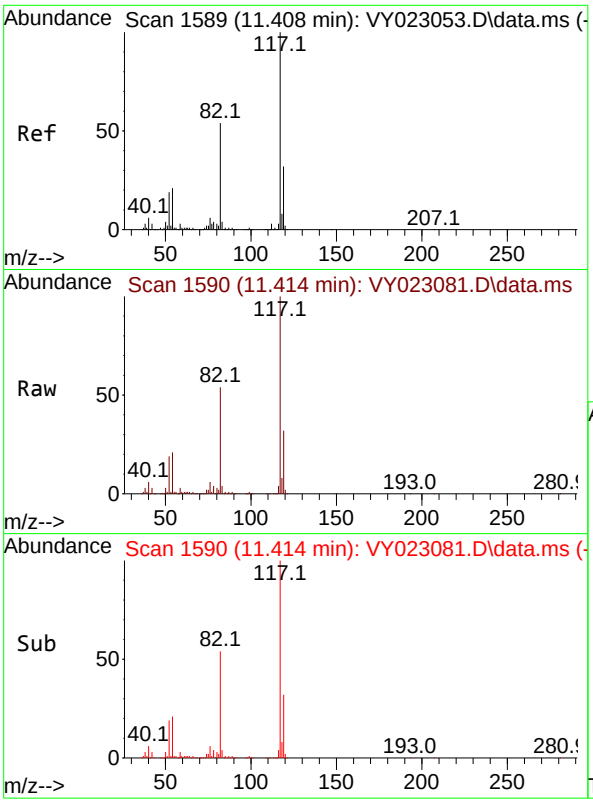


#62
4-Bromofluorobenzene
Concen: 45.648 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion: 95 Resp: 438170

Ion	Ratio	Lower	Upper
95	100		
174	86.1	0.0	171.6
176	83.5	0.0	167.6



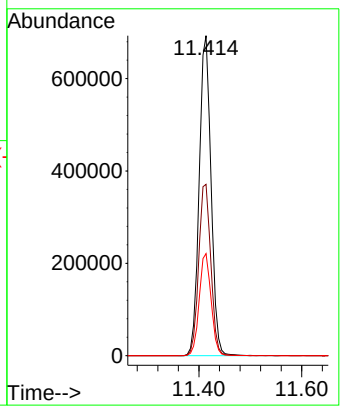


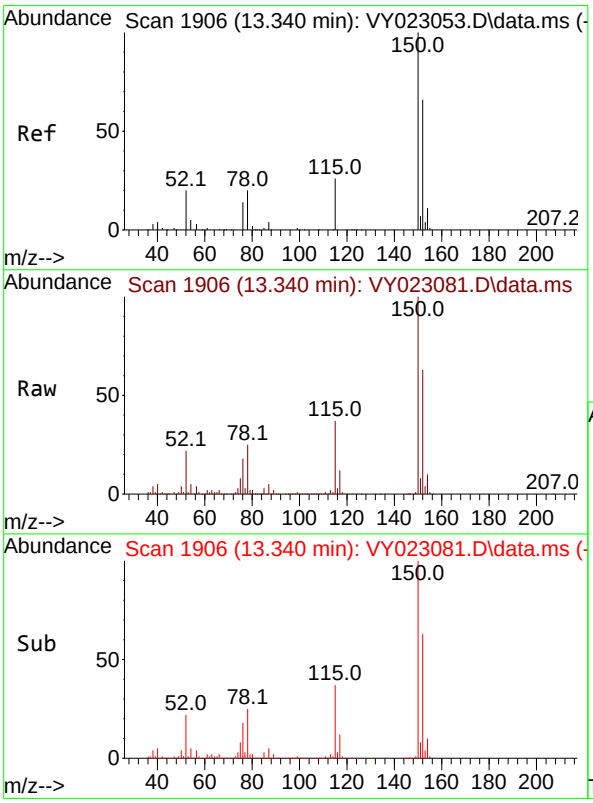
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Instrument :
MSVOA_Y
ClientSampleId :
38M-E

Tgt Ion:117 Resp: 1106347

Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.4	65.0
119	31.9	25.6	38.4

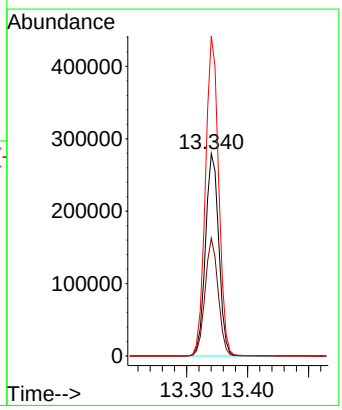




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion:152 Resp: 424298

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.2	84.6
150	156.7	0.0	348.0



Sample Results: **VY023081.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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: VY023081.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.604	464	473	482	rBV4	11617	42046	1.03%	0.210%
2	7.628	958	969	975	rBV	557103	1344468	32.81%	6.700%
3	7.707	975	982	998	rVB	823772	1899804	46.36%	9.467%
4	8.055	1030	1039	1058	rBV	475187	1081050	26.38%	5.387%
5	8.610	1121	1130	1151	rBV	1482736	2927186	71.43%	14.587%
6	10.103	1367	1375	1392	rBV	2476240	4098097	100.00%	20.422%
7	11.414	1582	1590	1603	rBV	2082502	3385855	82.62%	16.873%
8	12.402	1744	1752	1763	rBV2	1640709	2697809	65.83%	13.444%
9	13.340	1890	1906	1914	rBV	1702834	2590838	63.22%	12.911%

Sum of corrected areas: 20067153

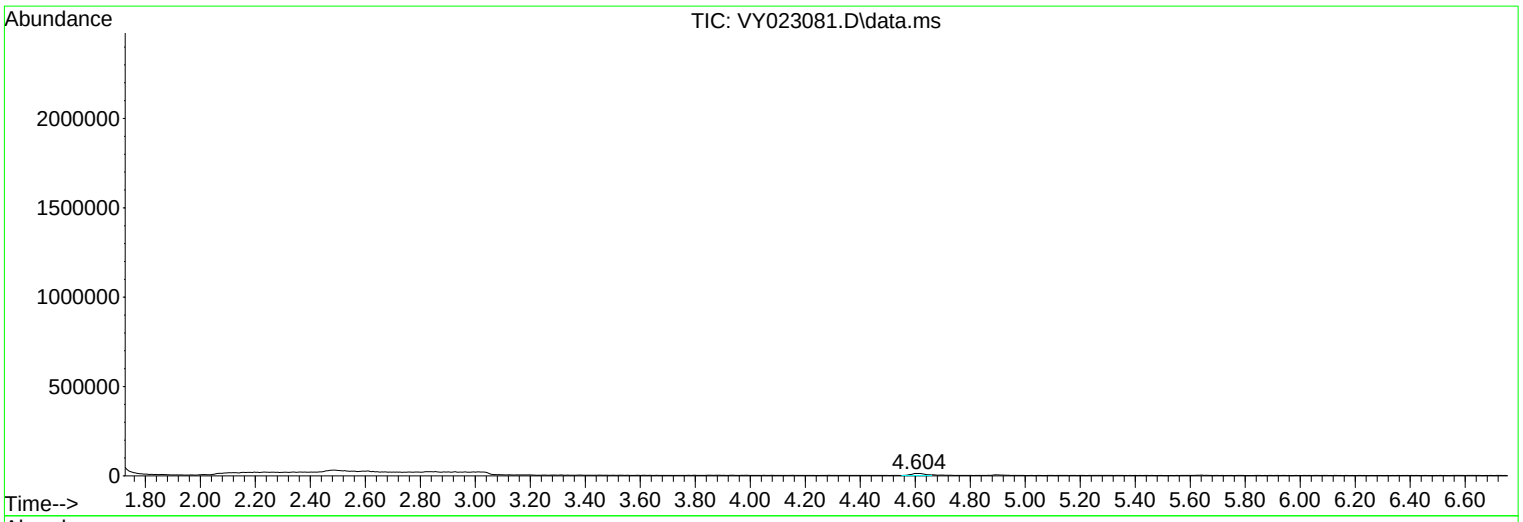
Sample Results: **VY023081.D**

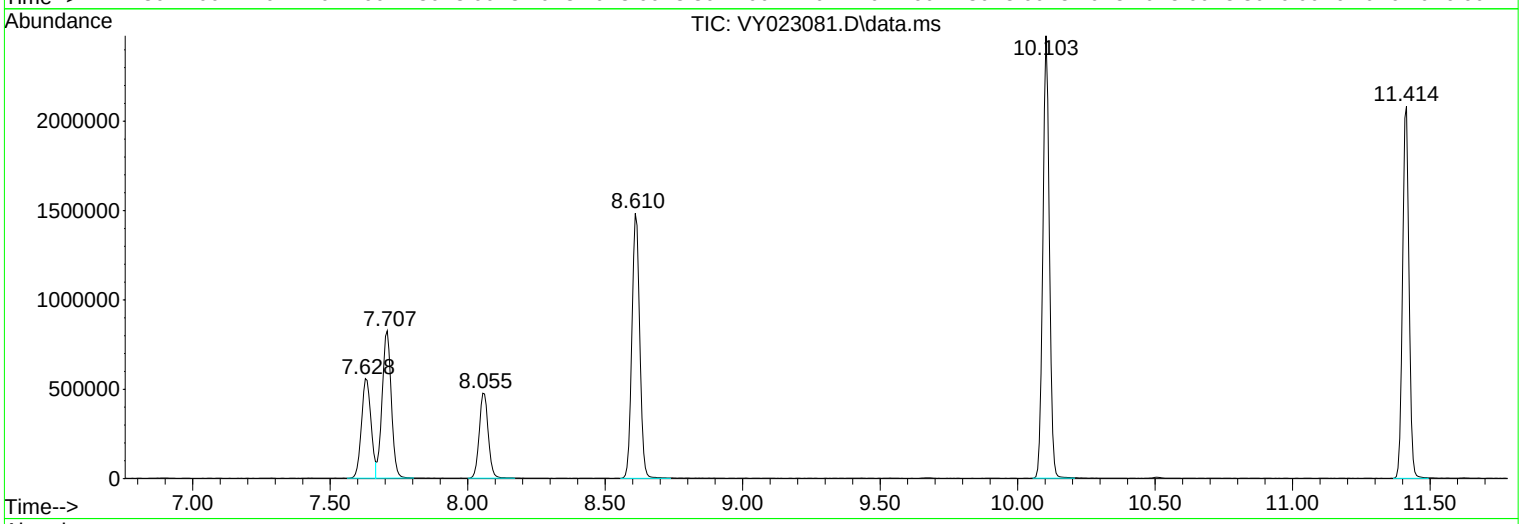
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

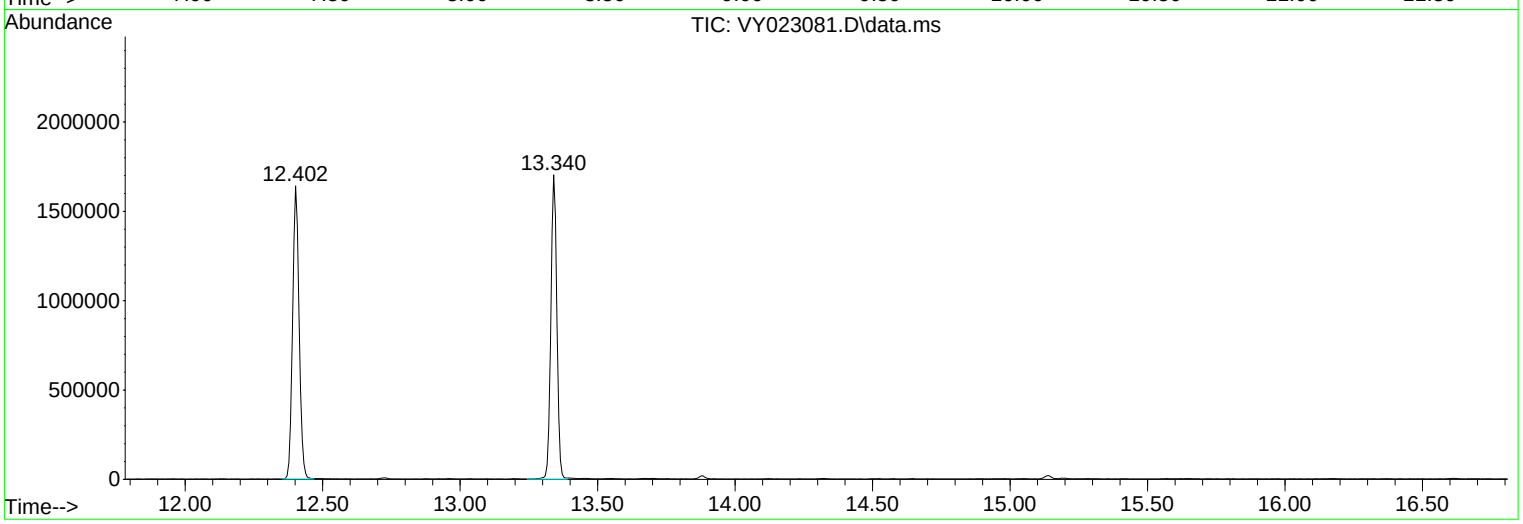
Instrument :
MSVOA_Y
ClientSampleId :
38M-E

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-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

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-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-20	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.2
Sample Wt/Vol:	7.36 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
VY023144.D	1	08/19/25 12:31	VY081925

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	0.94	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	0.93	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	17.6	U	4.20	17.6	22.0	ug/Kg
75-15-0	Carbon Disulfide	3.50	U	0.93	3.50	4.40	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.20	U	0.64	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	7.00	U	3.10	7.00	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	0.70	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	17.6	U	5.80	17.6	22.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.20	U	0.85	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	0.80	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	0.71	2.20	4.40	ug/Kg
78-87-5	1,2-Dichloropropane	2.20	U	0.80	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	11.0	U	3.20	11.0	22.0	ug/Kg
108-88-3	Toluene	2.20	U	0.69	2.20	4.40	ug/Kg

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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-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-20	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.2
Sample Wt/Vol:	7.36 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
VY023144.D	1	08/19/25 12:31	VY081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	2.20	U	0.57	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	11.0	U	3.20	11.0	22.0	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	0.77	2.20	4.40	ug/Kg
127-18-4	Tetrachloroethene	2.20	U	0.92	2.20	4.40	ug/Kg
108-90-7	Chlorobenzene	2.20	U	0.80	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	0.72	2.20	4.40	ug/Kg
100-42-5	Styrene	2.20	U	0.62	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	54.7		71 - 136		109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		78 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	50.5		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.3		79 - 119		87%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	628000	7.707				
540-36-3	1,4-Difluorobenzene	1150000	8.616				
3114-55-4	Chlorobenzene-d5	978000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	336000	13.347				

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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-E	SDG No.:	Q2819
Lab Sample ID:	Q2819-20	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	77.2
Sample Wt/Vol:	7.36 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
VY023144.D	1	08/19/25 12:31	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 : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-E

Quant Time: Aug 20 01:28:03 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	627655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1149795	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	978415	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	336379	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	327124	54.685	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.360%			
35) Dibromofluoromethane	7.634	113	362558	52.697	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.400%			
50) Toluene-d8	10.103	98	1358340	50.538	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.080%			
62) 4-Bromofluorobenzene	12.402	95	374379	43.312	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 86.620%			

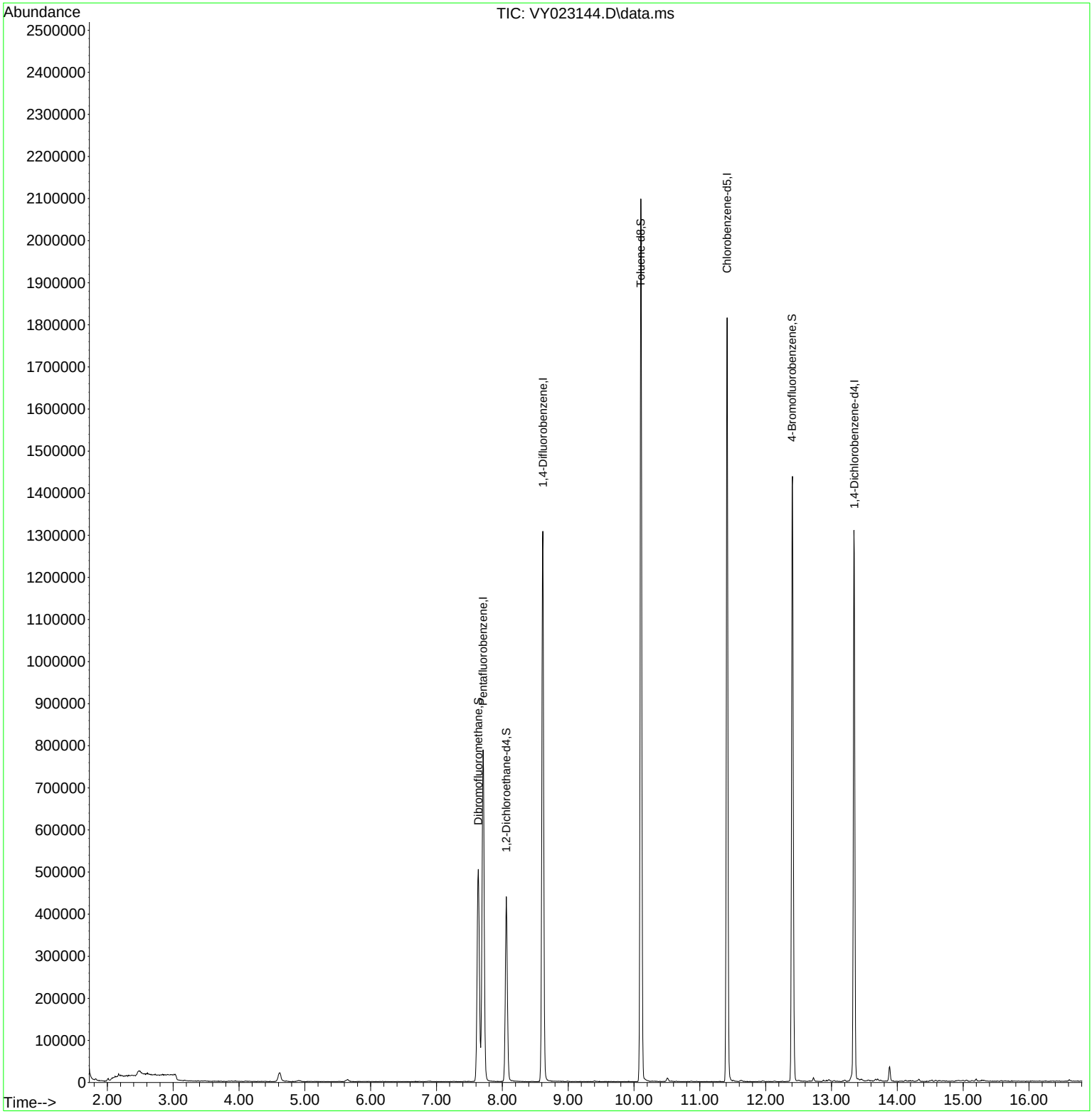
Target Compounds Qvalue

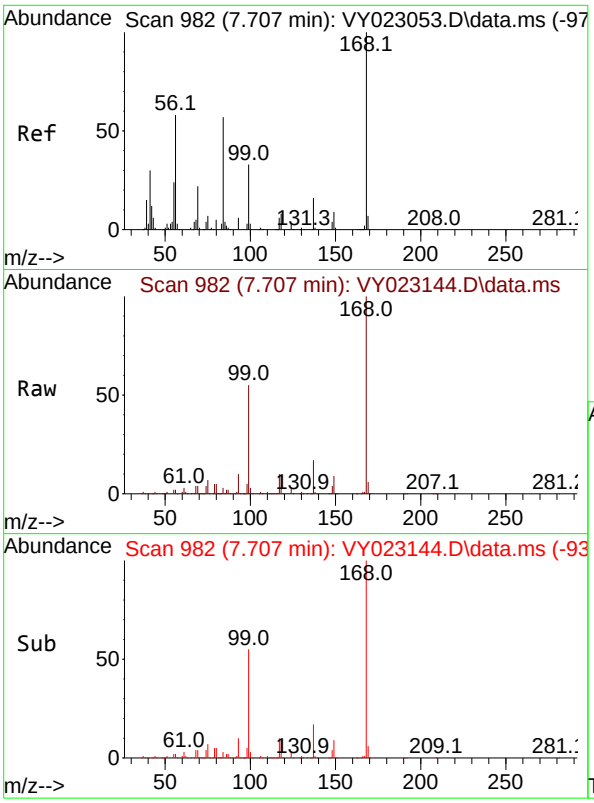
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-E

Quant Time: Aug 20 01:28:03 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



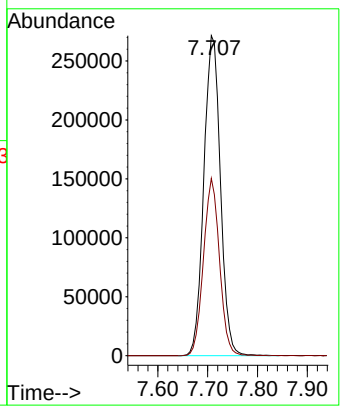


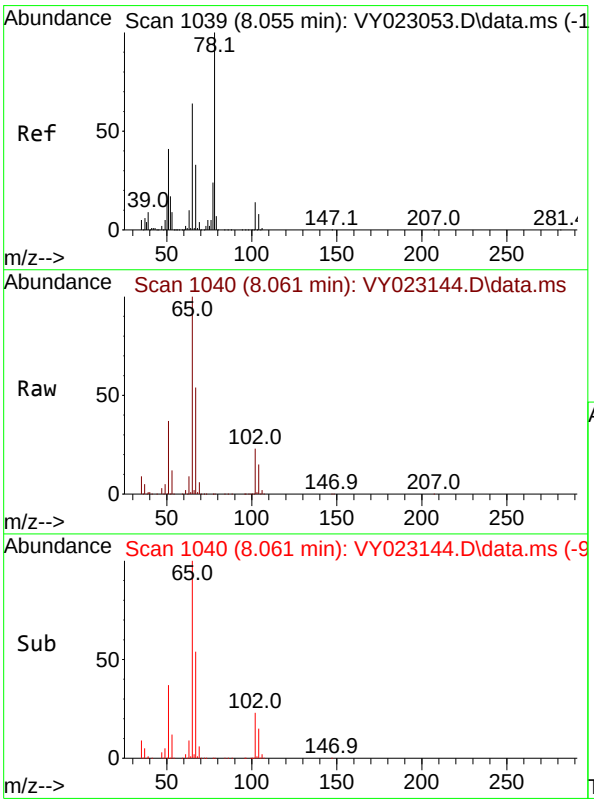
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Instrument :
MSVOA_Y
ClientSampleId :
82H-E

Tgt Ion:168 Resp: 627655

Ion	Ratio	Lower	Upper
168	100		
99	55.4	42.8	64.2

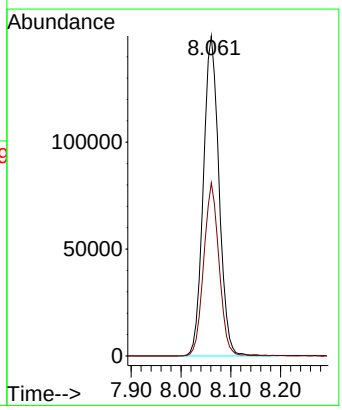


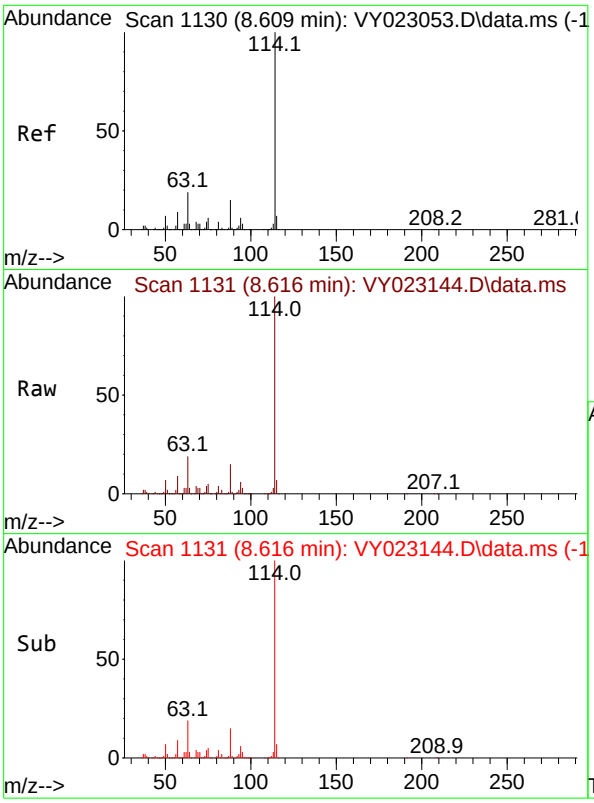


#33
1,2-Dichloroethane-d4
Concen: 54.685 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion: 65 Resp: 327124

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	106.8



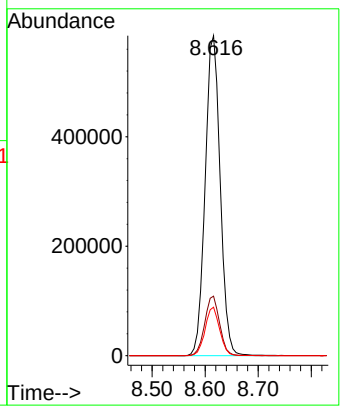


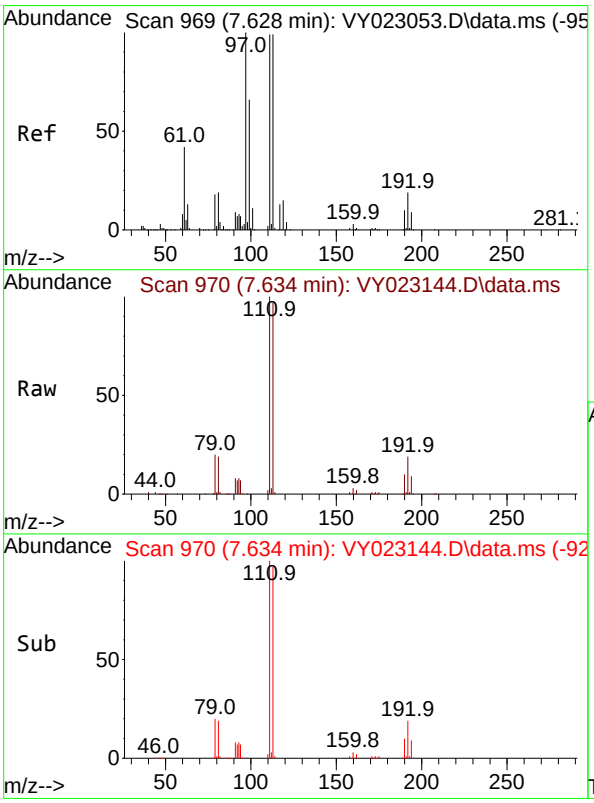
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Instrument :
MSVOA_Y
ClientSampleId :
82H-E

Tgt Ion:114 Resp: 1149795

Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.4
88	15.2	0.0	30.0

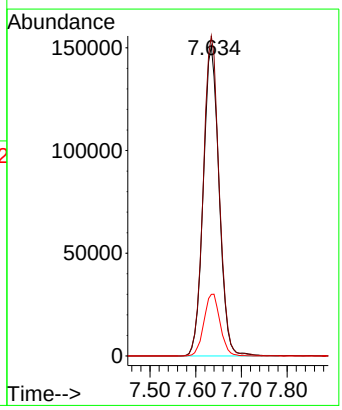


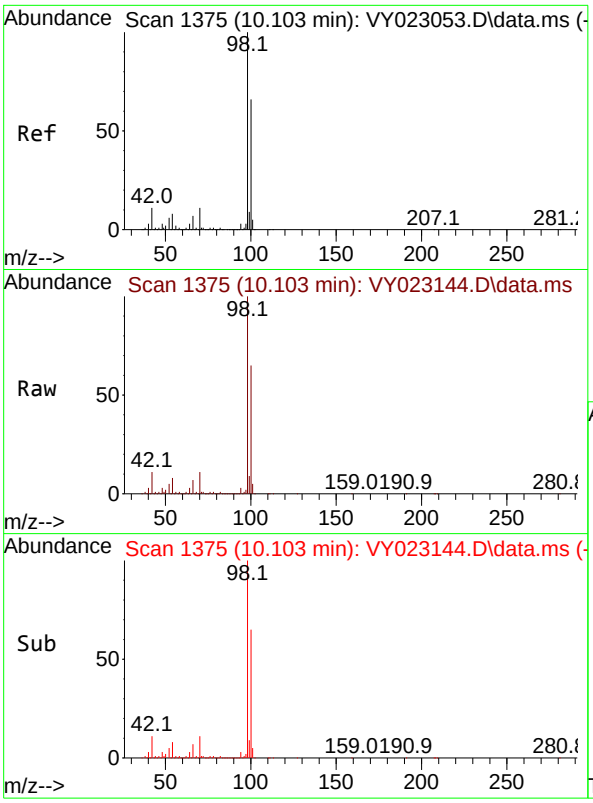


#35
Dibromofluoromethane
Concen: 52.697 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion:113 Resp: 362558

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.1	121.7
192	20.4	16.2	24.4



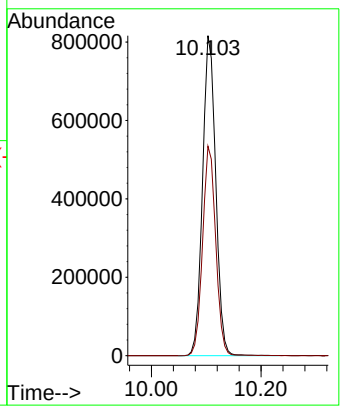


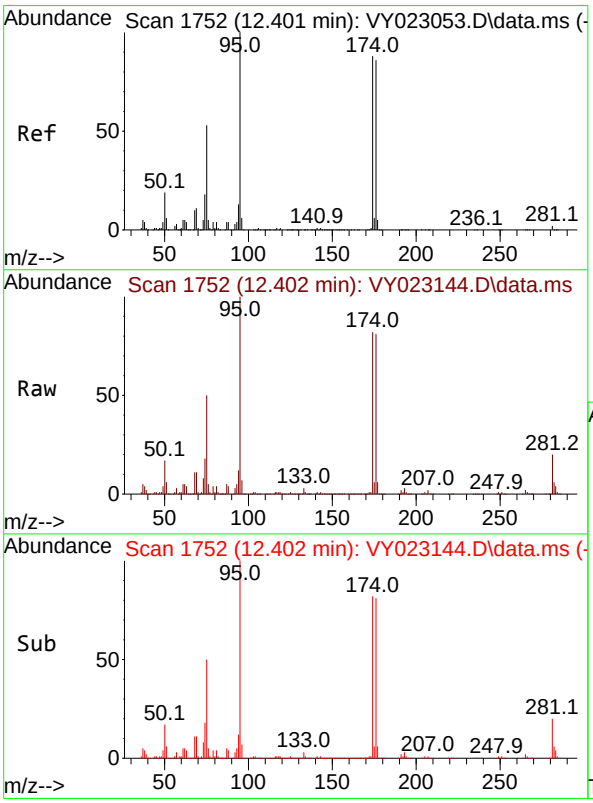
#50
Toluene-d8
Concen: 50.538 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Instrument :
MSVOA_Y
ClientSampleId :
82H-E

Tgt Ion: 98 Resp: 1358340

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.3	78.5

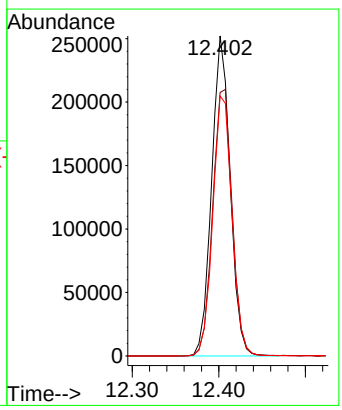


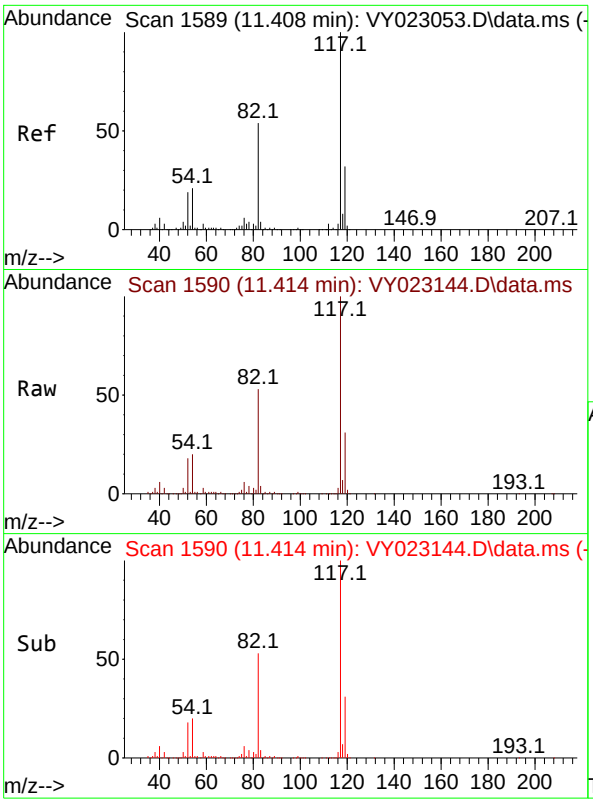


#62
4-Bromofluorobenzene
Concen: 43.312 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion: 95 Resp: 374379

Ion	Ratio	Lower	Upper
95	100		
174	87.8	0.0	171.6
176	84.5	0.0	167.6



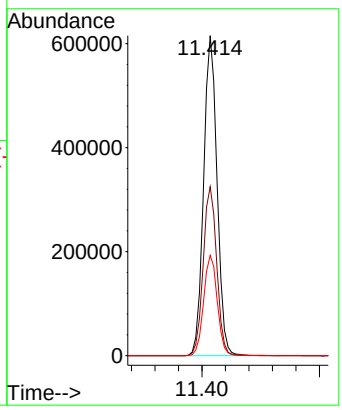


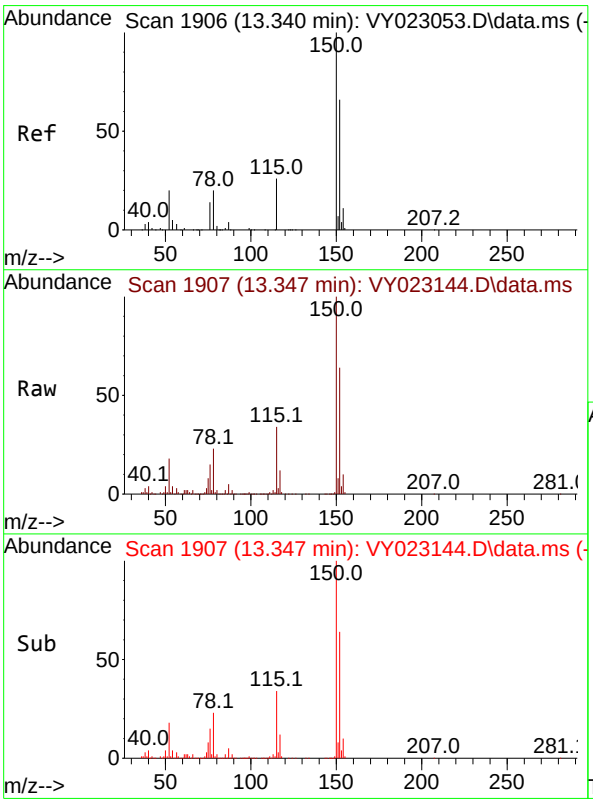
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Instrument :
MSVOA_Y
ClientSampleId :
82H-E

Tgt Ion:117 Resp: 978415

Ion	Ratio	Lower	Upper
117	100		
82	52.8	43.4	65.0
119	31.4	25.6	38.4

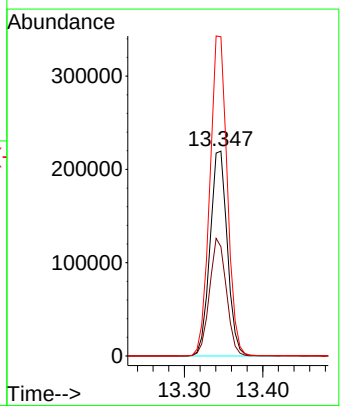




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion:152 Resp: 336379

Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.2	84.6
150	157.1	0.0	348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-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: VY023144.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	% max.	% of total
1	4.616	463	475	484	rBV2	20702	66871	1.90%	0.378%
2	7.634	959	970	976	rBV2	504123	1212617	34.38%	6.851%
3	7.707	976	982	997	rVB	787033	1795653	50.91%	10.146%
4	8.061	1031	1040	1052	rBV	438704	928359	26.32%	5.245%
5	8.616	1120	1131	1147	rBV	1307609	2570637	72.88%	14.524%
6	10.103	1366	1375	1394	rBV	2097442	3527409	100.00%	19.930%
7	11.414	1581	1590	1603	rBV	1815272	2915864	82.66%	16.475%
8	12.408	1743	1753	1764	rBV2	1437465	2595872	73.59%	14.667%
9	13.340	1894	1906	1915	rBV	1308287	2028941	57.52%	11.464%
10	13.883	1989	1995	2002	rBV2	34467	56493	1.60%	0.319%

Sum of corrected areas: 17698716

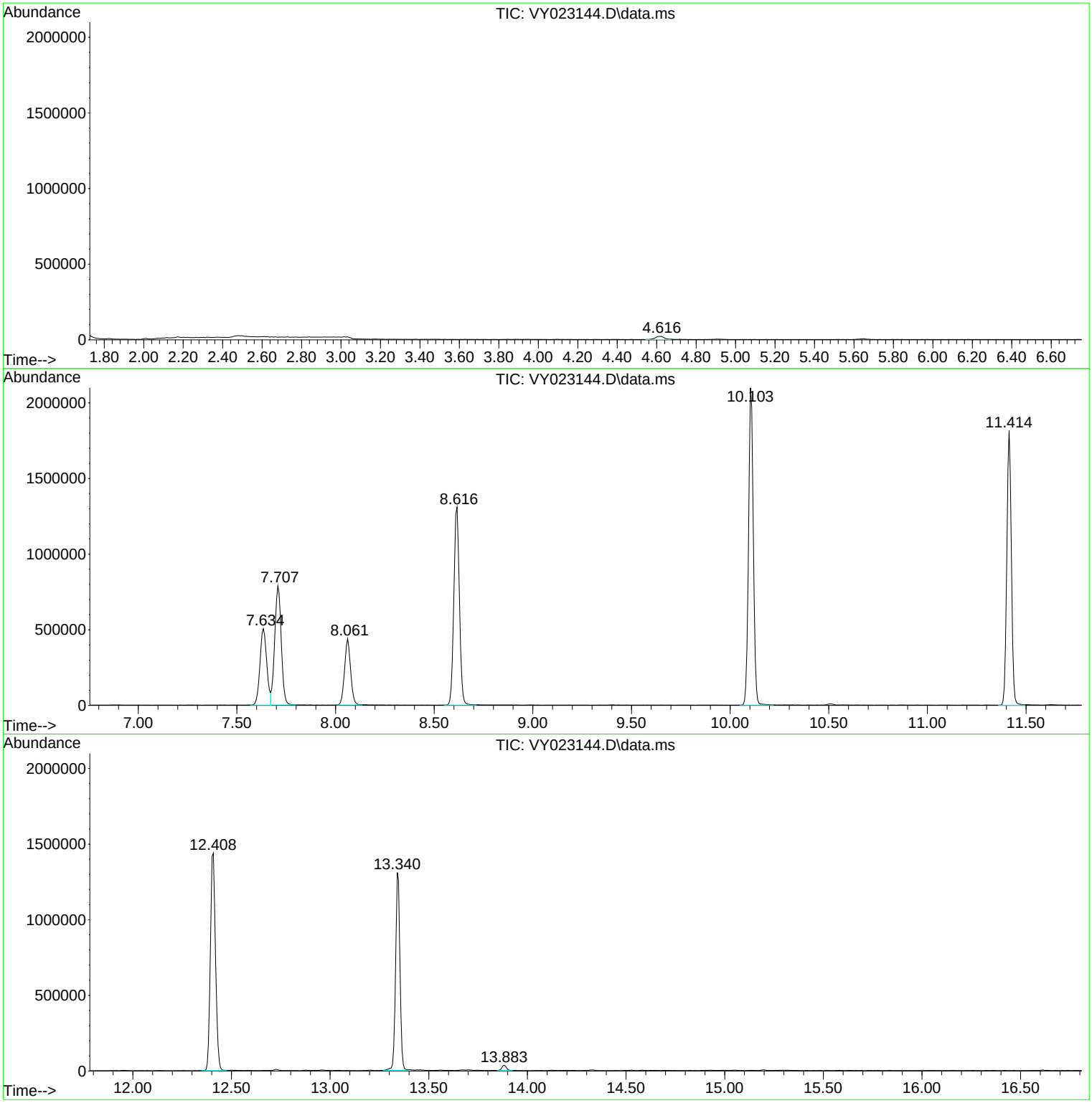
Sample Results: **VY023144.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-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 : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
82H-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

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

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
5 =VW032052.D 10 =VW032053.D 20 =VW032054.D 50 =VW032055.D 100 =VW032056.D 150 =VW032057.D

		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

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

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

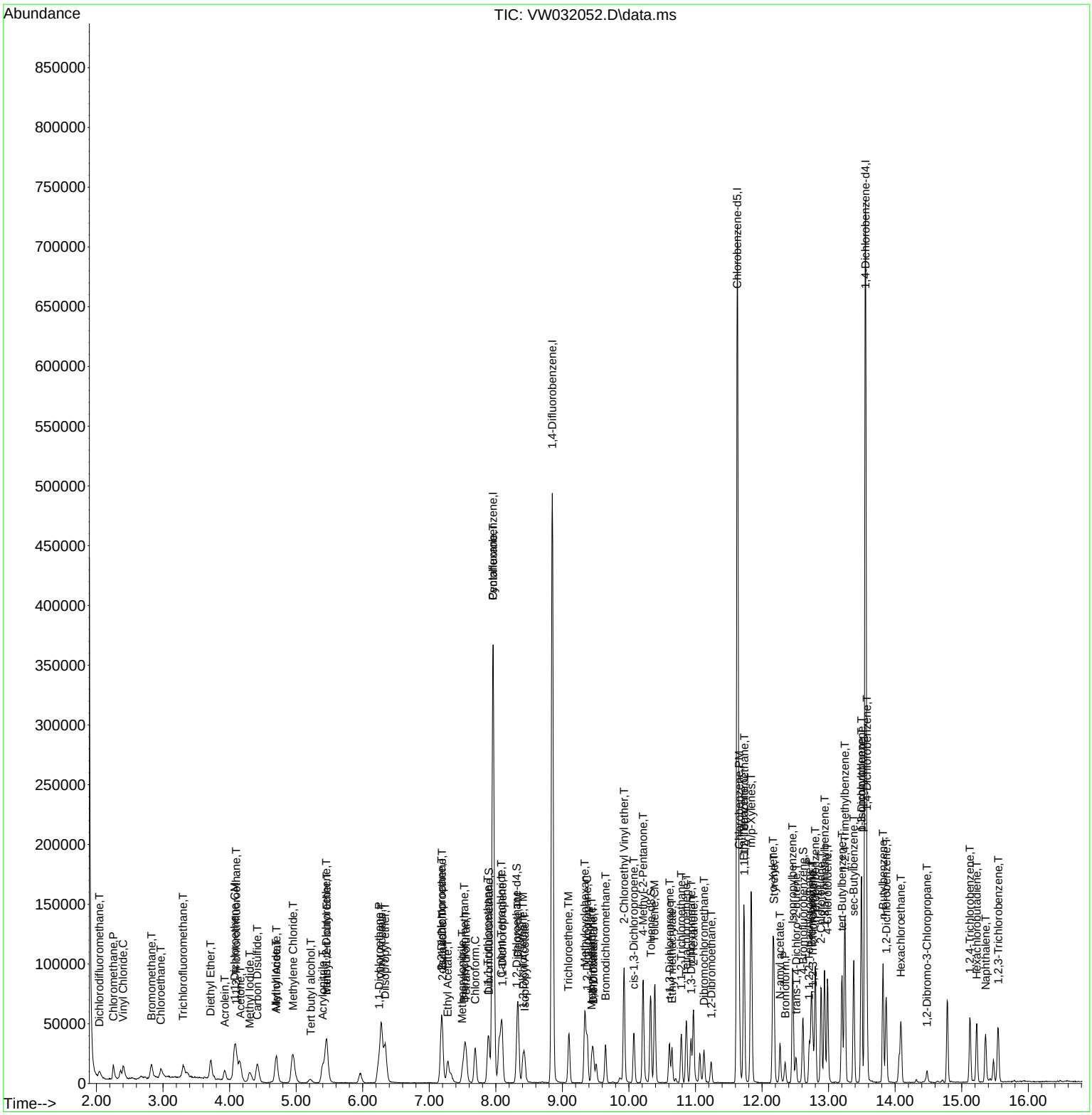
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

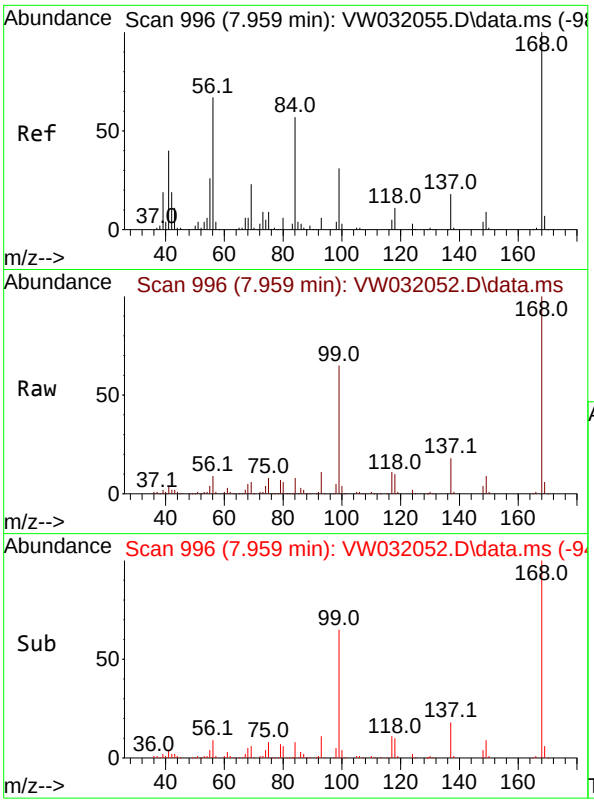
Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

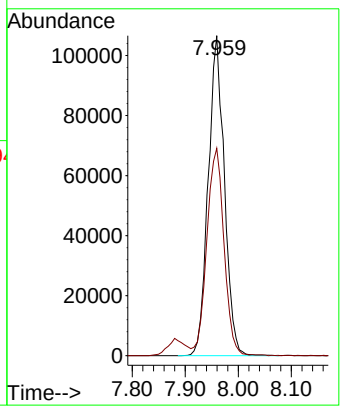




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:168 Resp: 22557

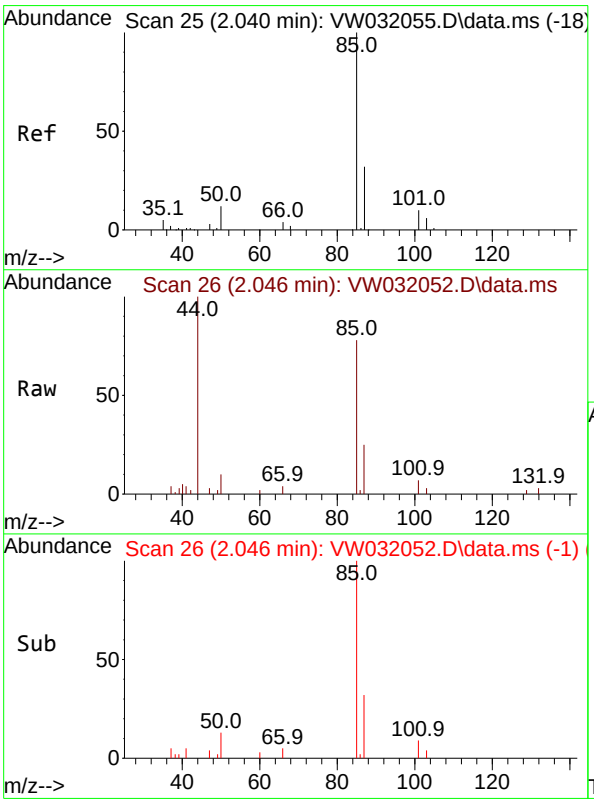
Ion	Ratio	Lower	Upper
168	100		
99	64.7	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

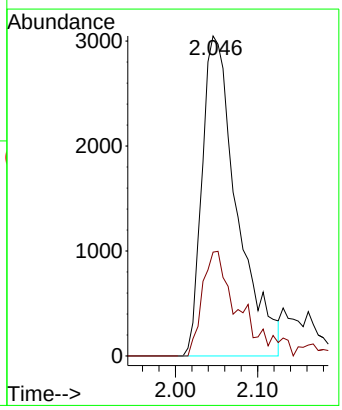
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

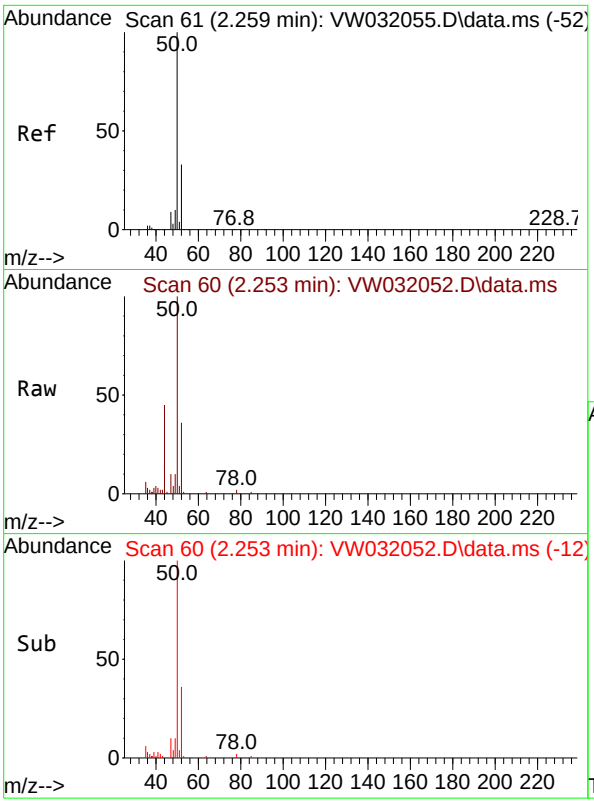


#2
Dichlorodifluoromethane
Concen: 5.583 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 85 Resp: 9007

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.2	48.6

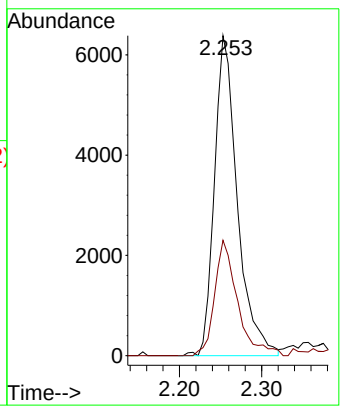




#3
Chloromethane
Concen: 5.695 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 50 Resp: 1237

Ion	Ratio	Lower	Upper
50	100		
52	36.1	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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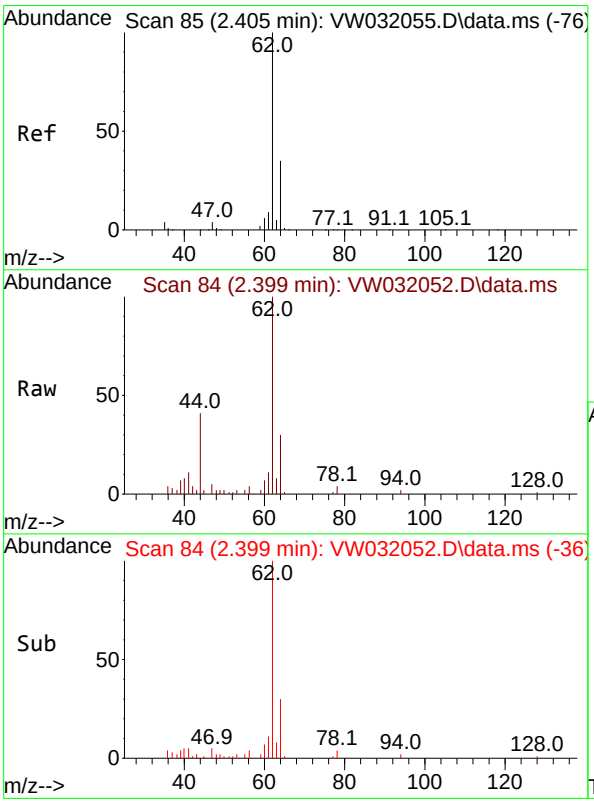
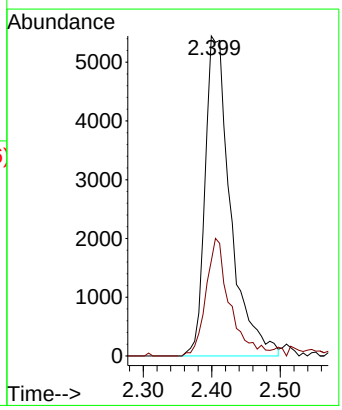
Supervised By :Semsettin Yesilyurt 08/12/2025

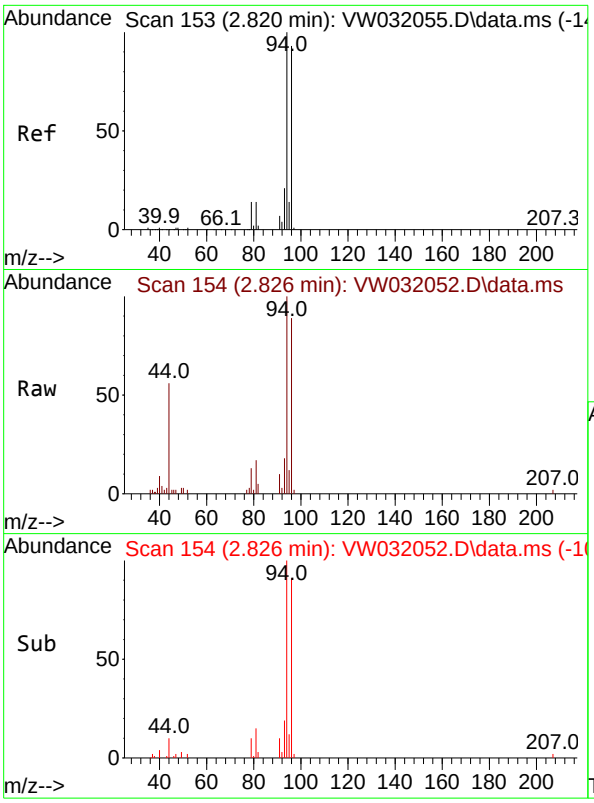


#4
Vinyl Chloride
Concen: 5.337 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

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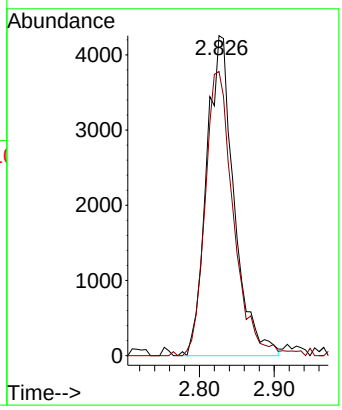
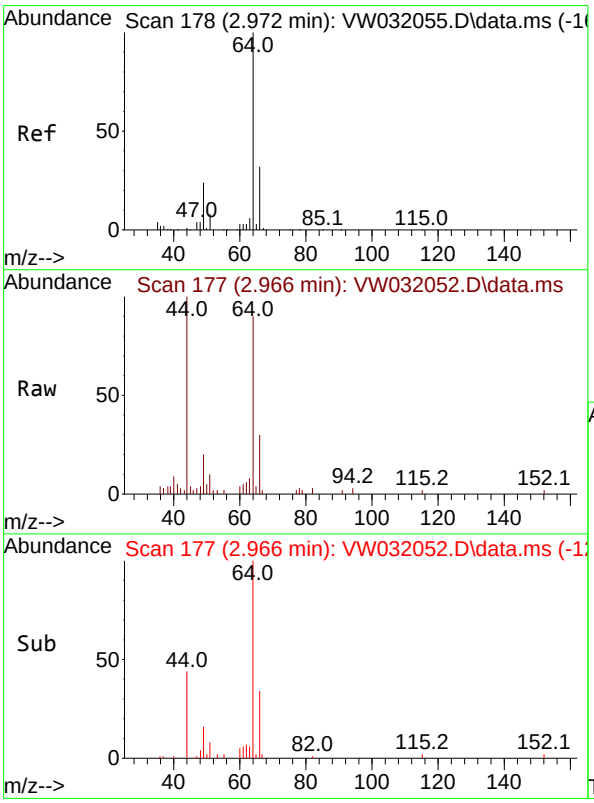
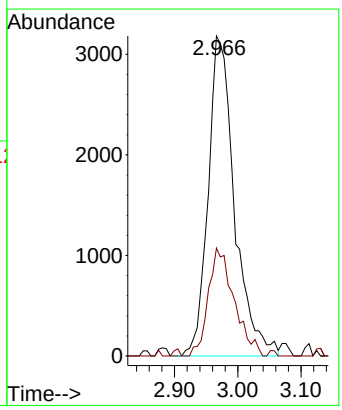


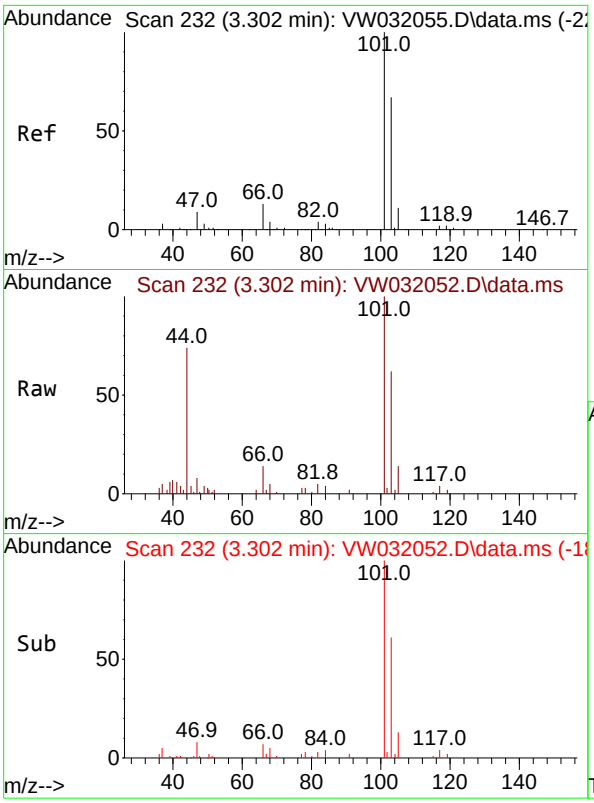


#6
Chloroethane
Concen: 5.300 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 64 Resp: 9219

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.0	39.0

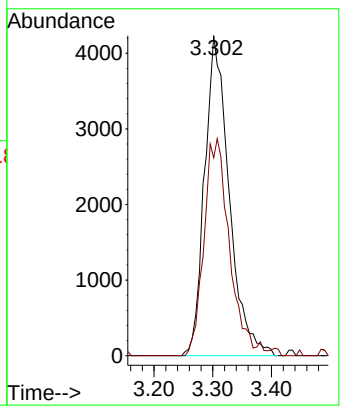




#7
Trichlorofluoromethane
Concen: 5.840 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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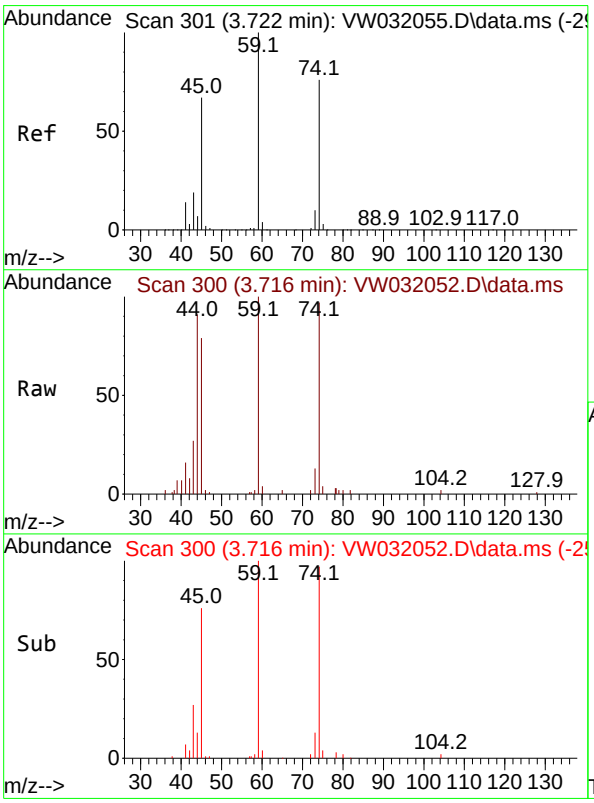
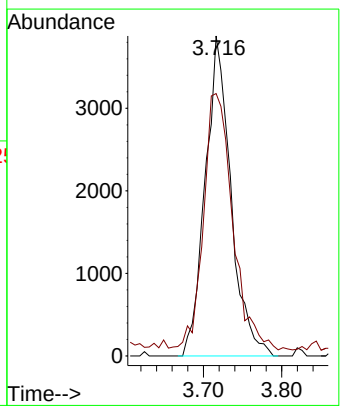
Supervised By :Semsettin Yesilyurt 08/12/2025

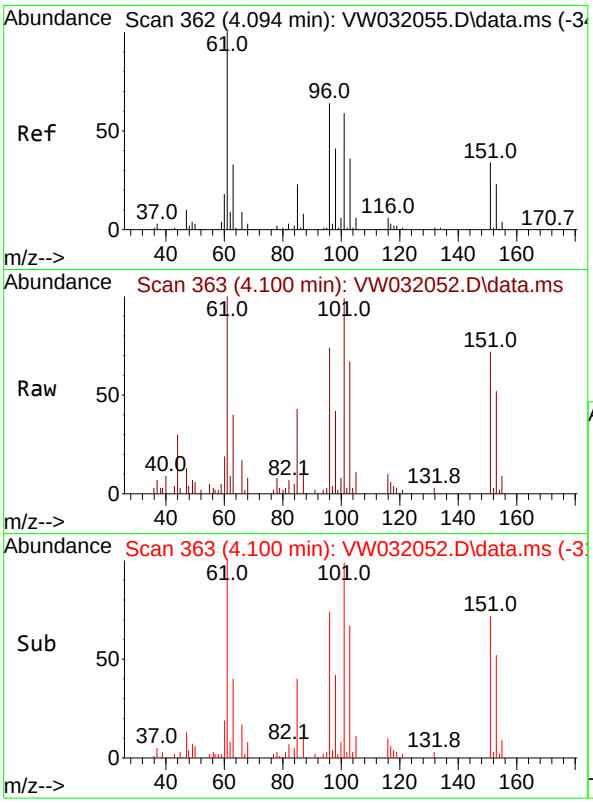


#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 74 Resp: 8824

Ion	Ratio	Lower	Upper
74	100		
45	92.8	45.4	136.2

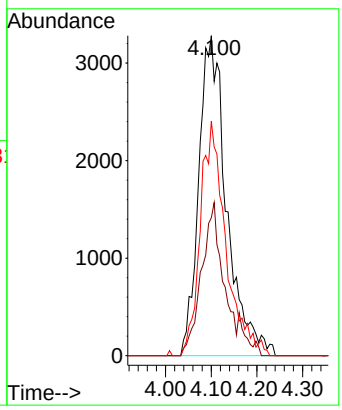




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.596 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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ClientSampleId :
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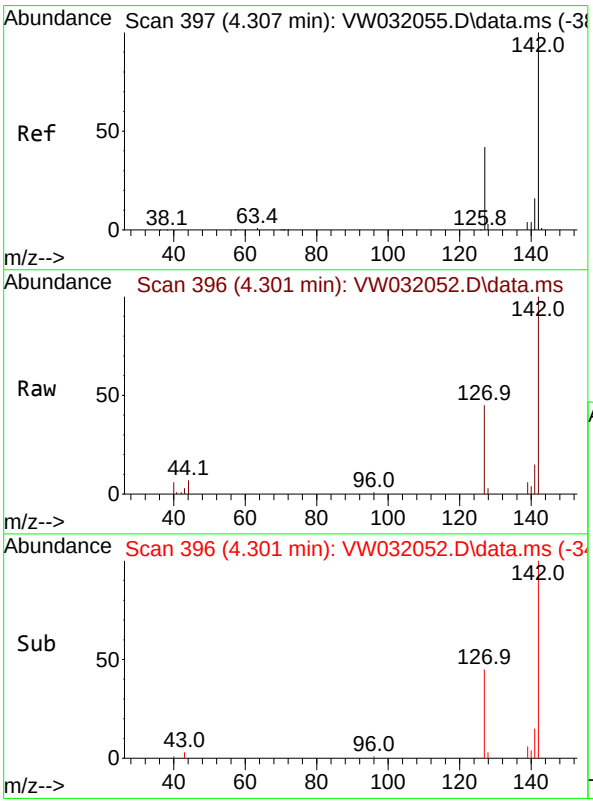
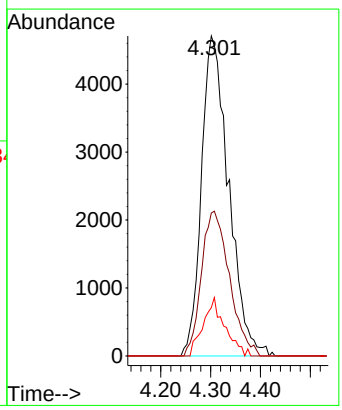
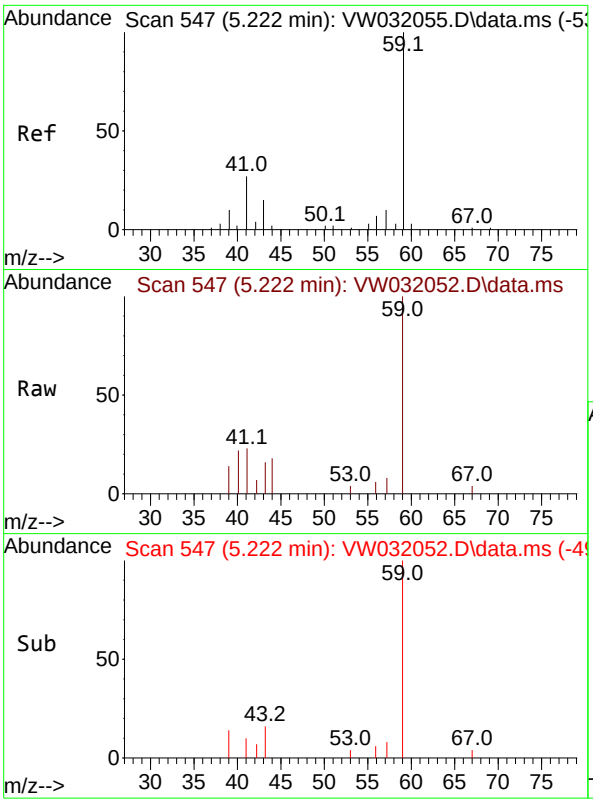


#10
Methyl Iodide
Concen: 5.050 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

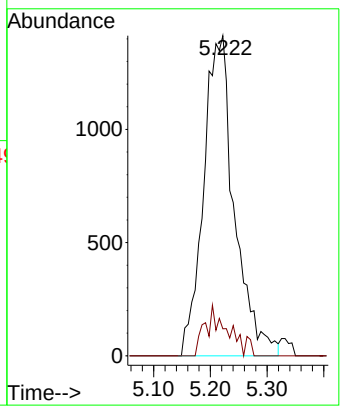




#11
Tert butyl alcohol
Concen: 25.221 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 59 Resp: 532

Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.7	13.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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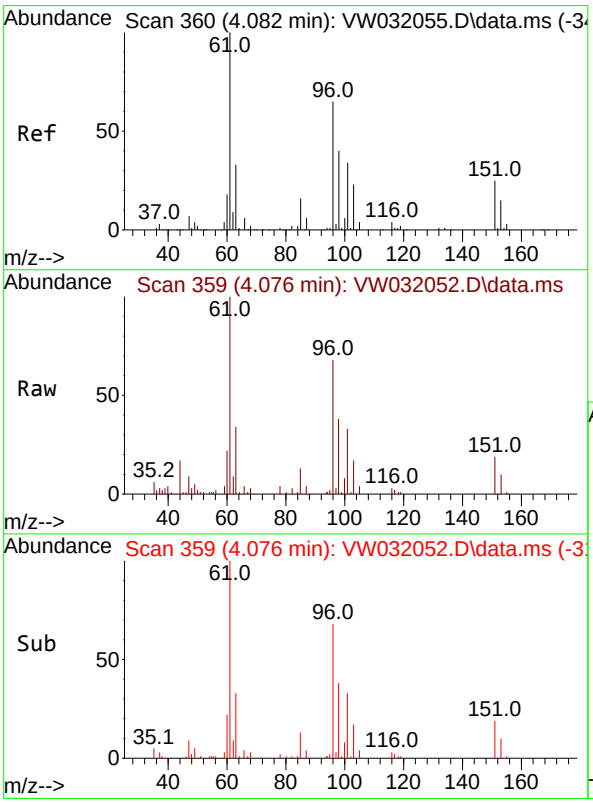
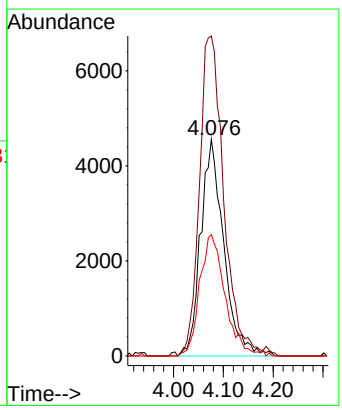
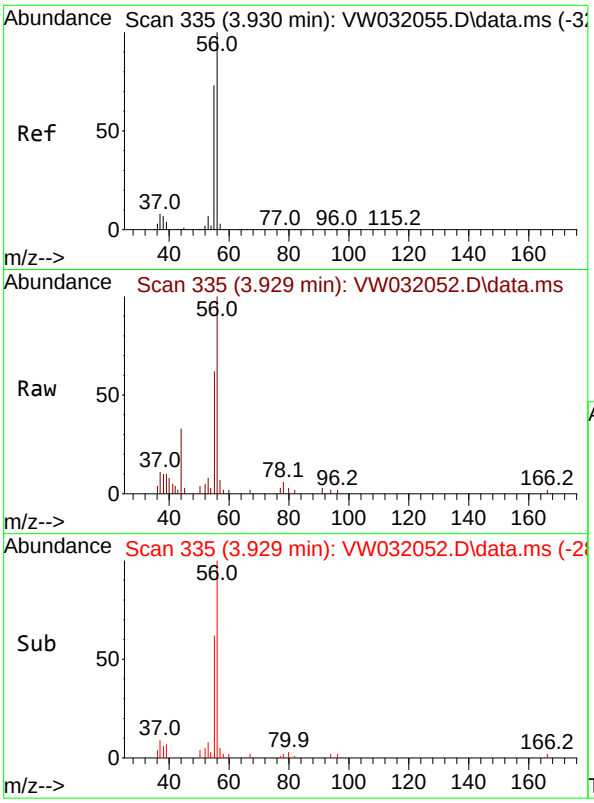


#12
1,1-Dichloroethene
Concen: 5.357 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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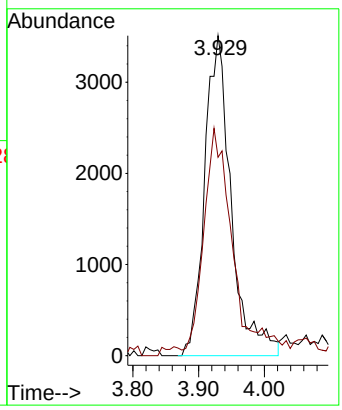
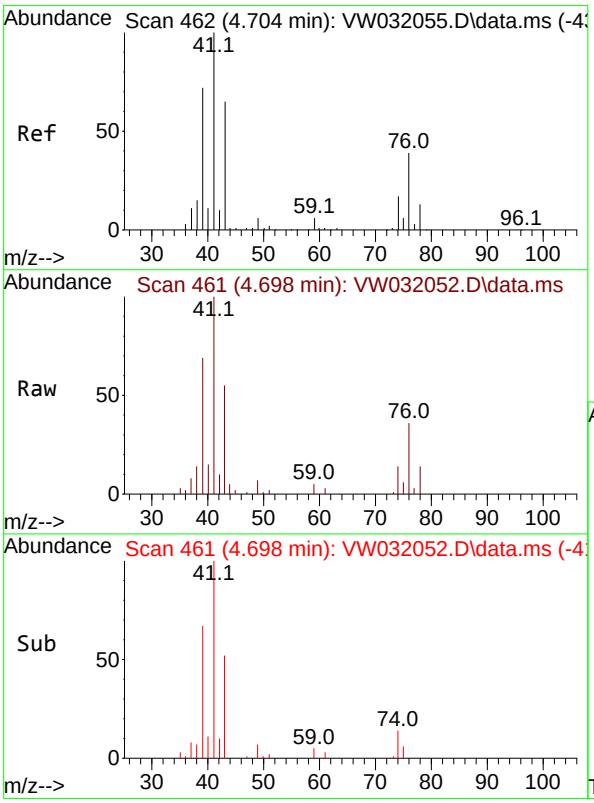
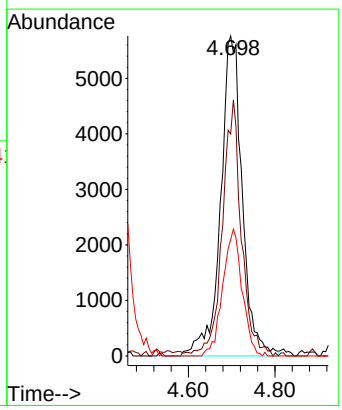


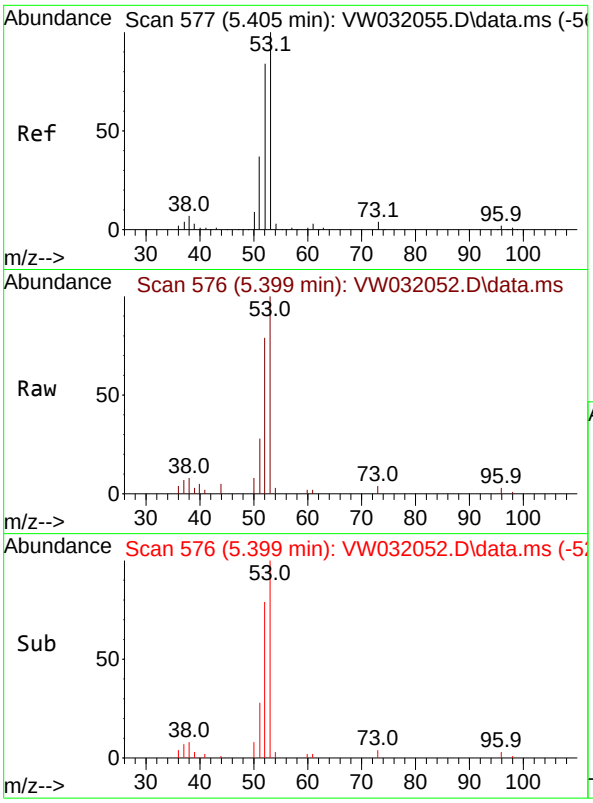


#14
Allyl chloride
Concen: 5.023 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

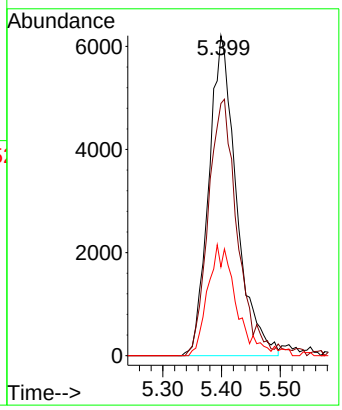




#15
Acrylonitrile
Concen: 24.751 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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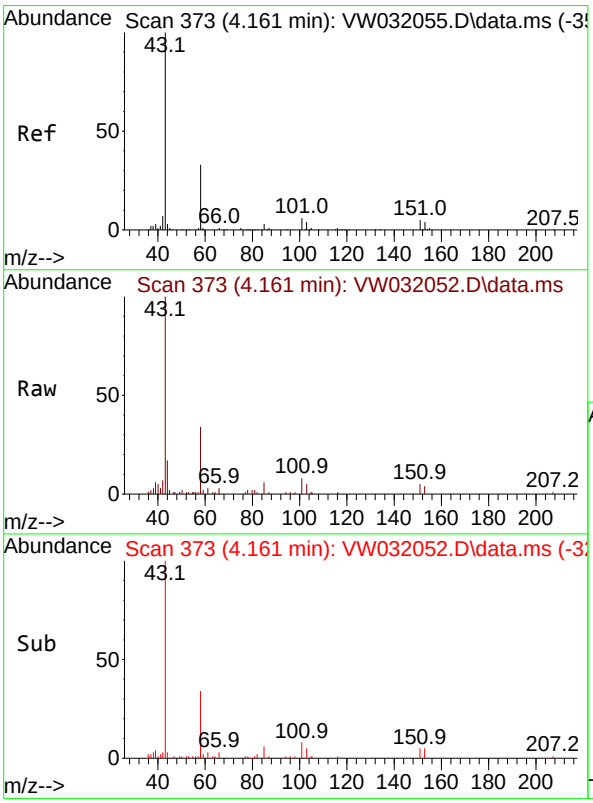
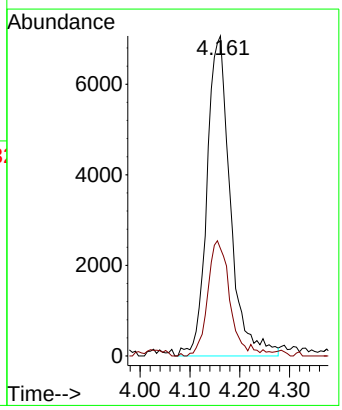
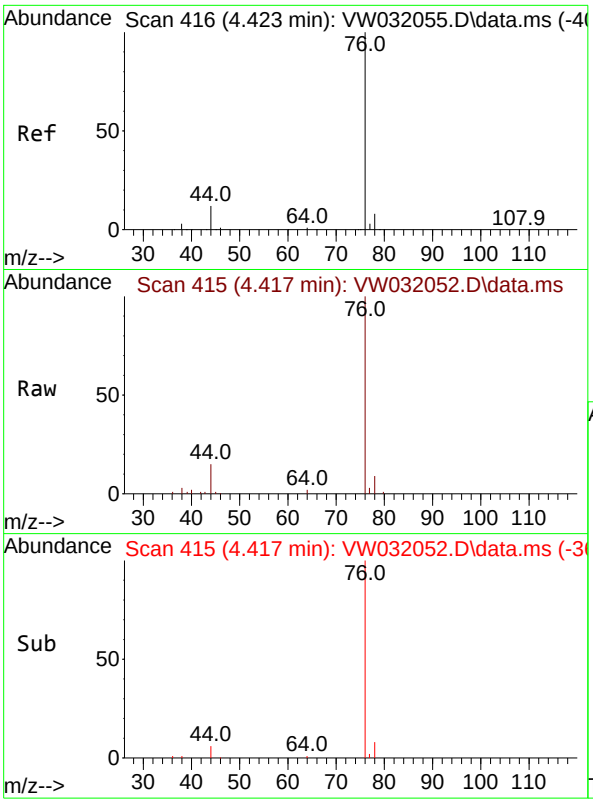


#16
Acetone
Concen: 30.337 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

Manual Integrations
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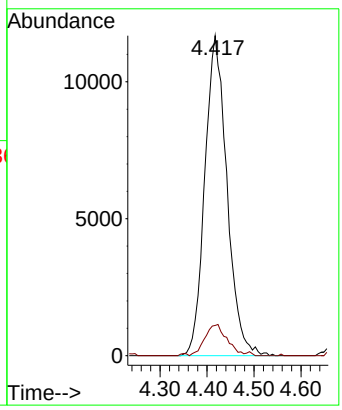
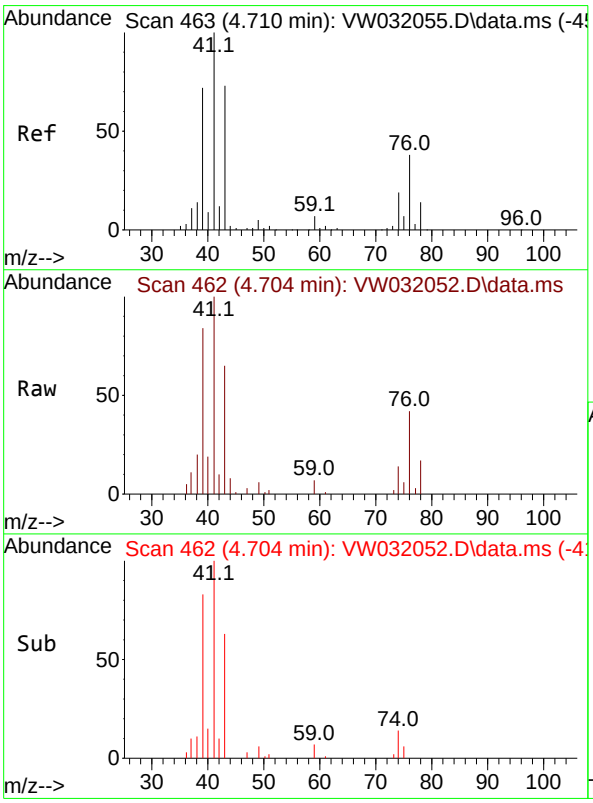
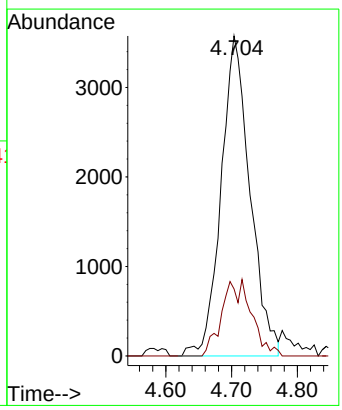


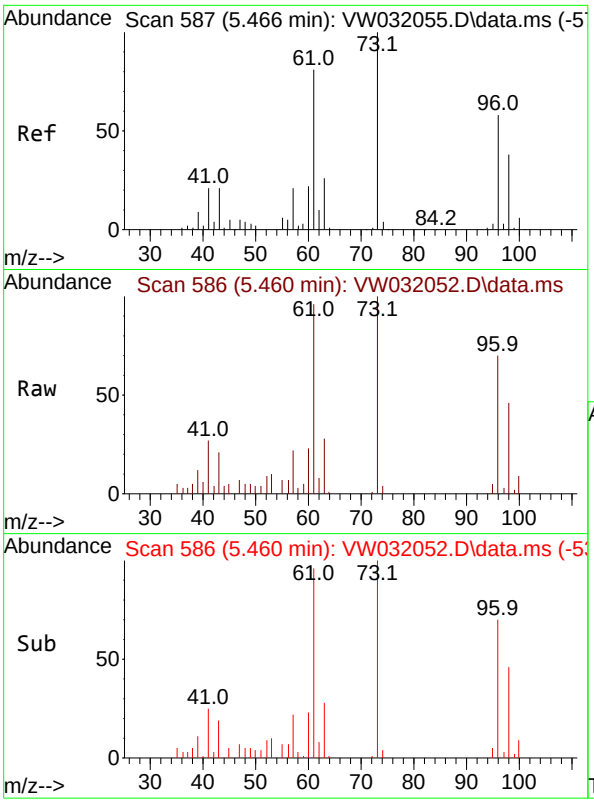


#18
Methyl Acetate
Concen: 4.578 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 10943

Ion	Ratio	Lower	Upper
43	100		
74	13.7	20.6	31.0#

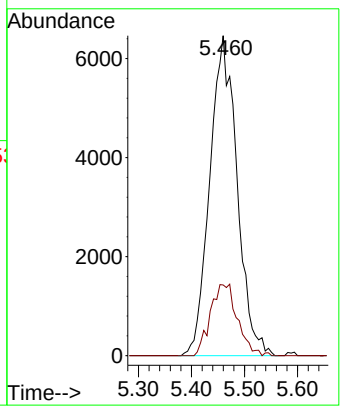




#19
Methyl tert-butyl Ether
Concen: 4.785 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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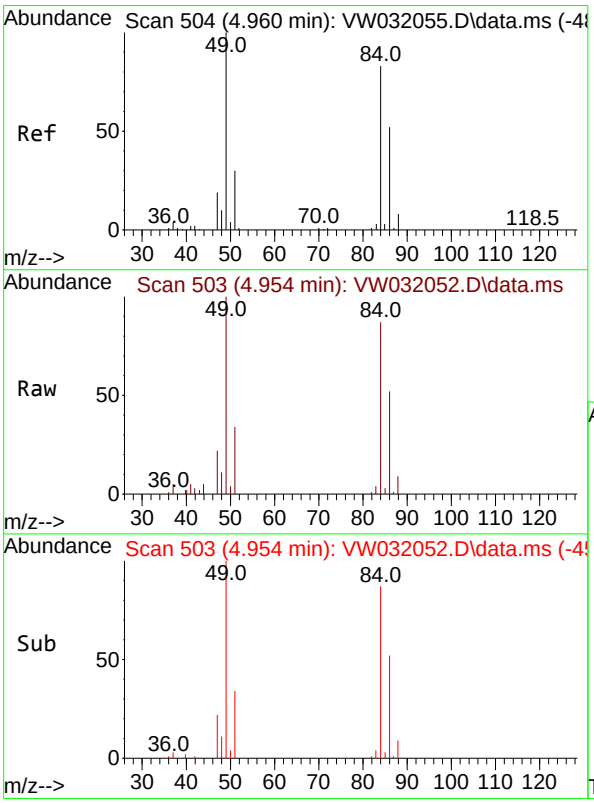
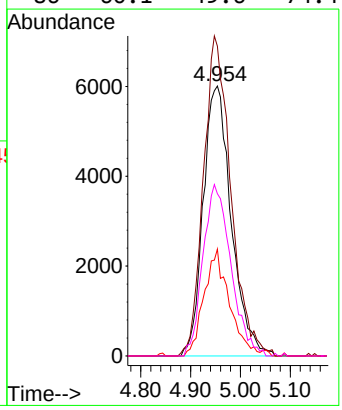
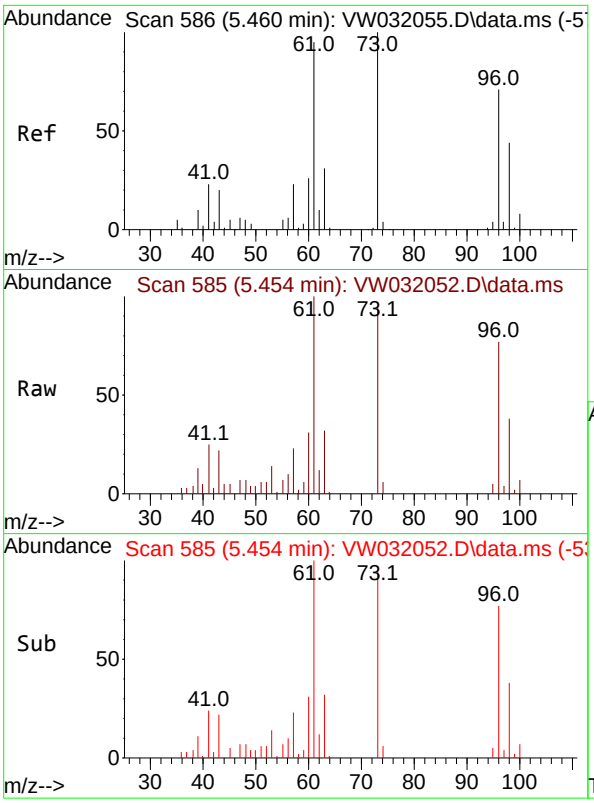


#20
Methylene Chloride
Concen: 6.737 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

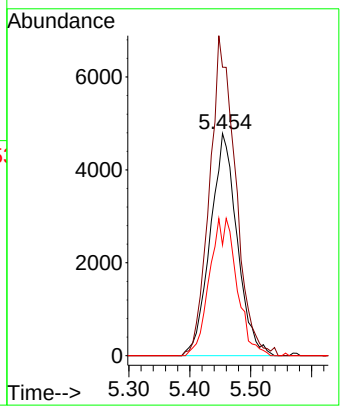




#21
trans-1,2-Dichloroethene
Concen: 5.053 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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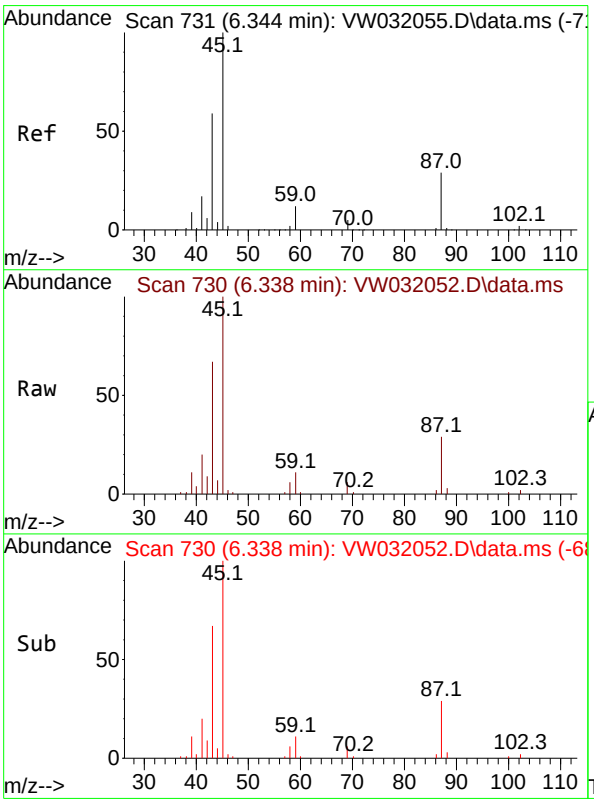
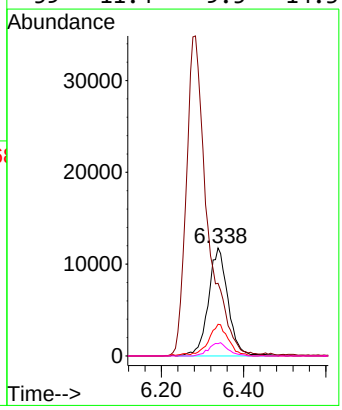
Supervised By :Semsettin Yesilyurt 08/12/2025

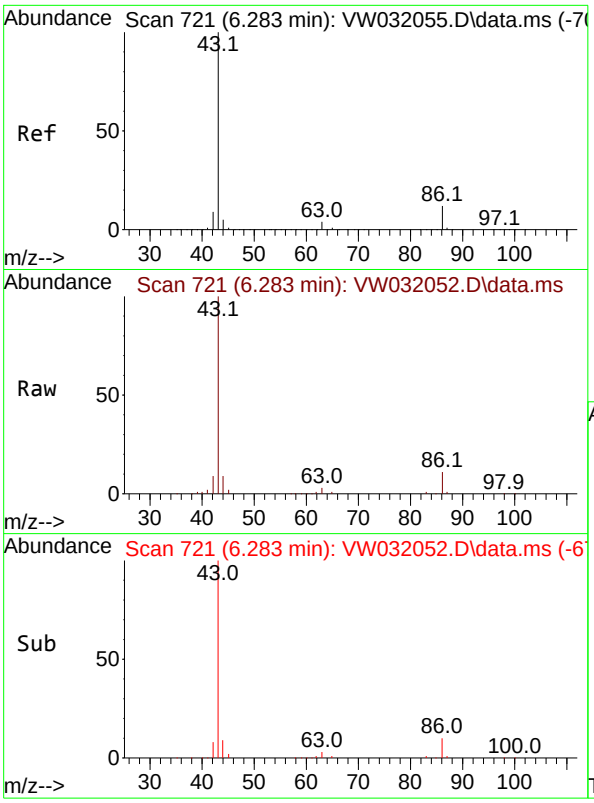


#22
Diisopropyl ether
Concen: 4.634 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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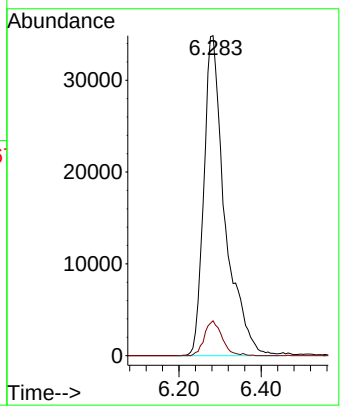
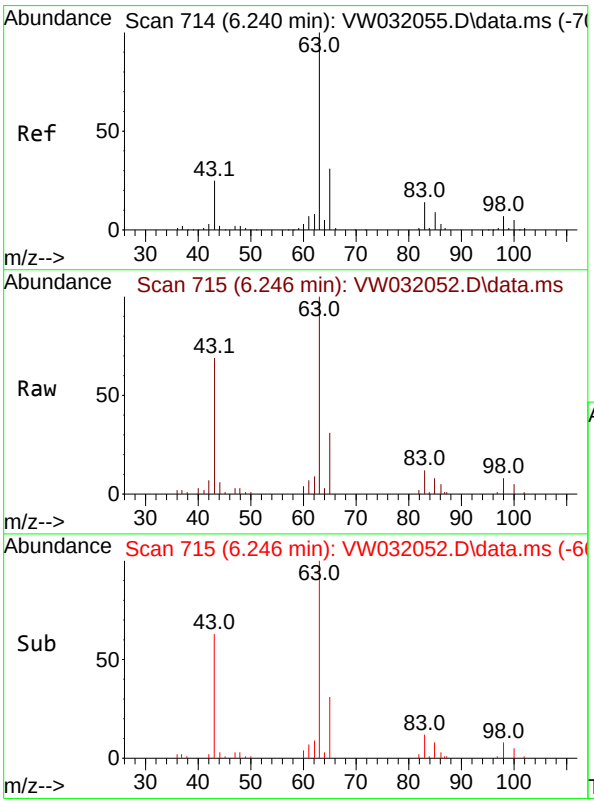
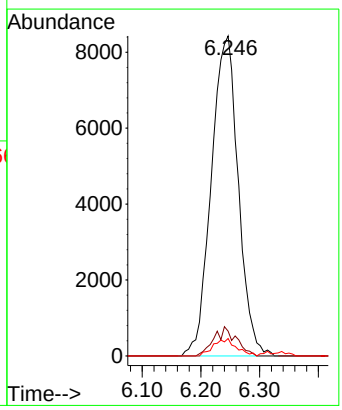


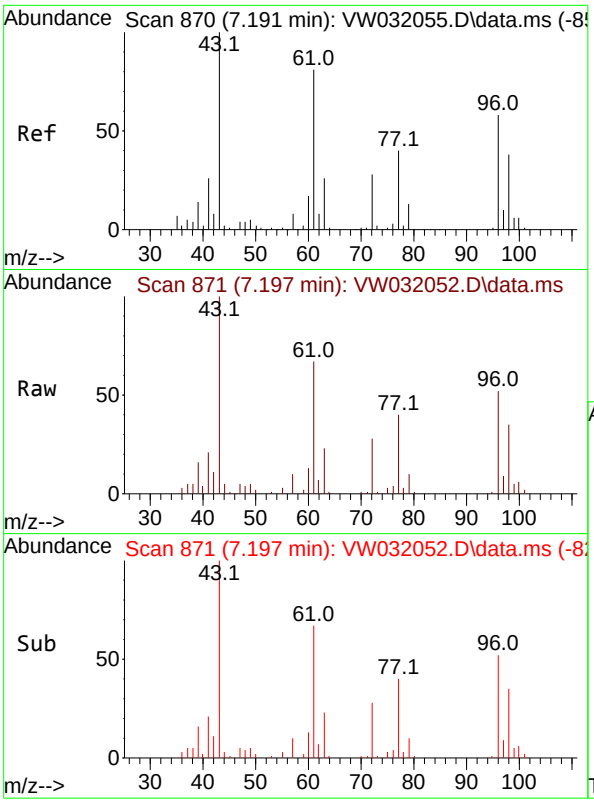


#24
1,1-Dichloroethane
Concen: 5.018 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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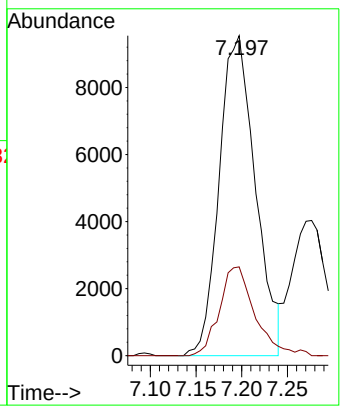
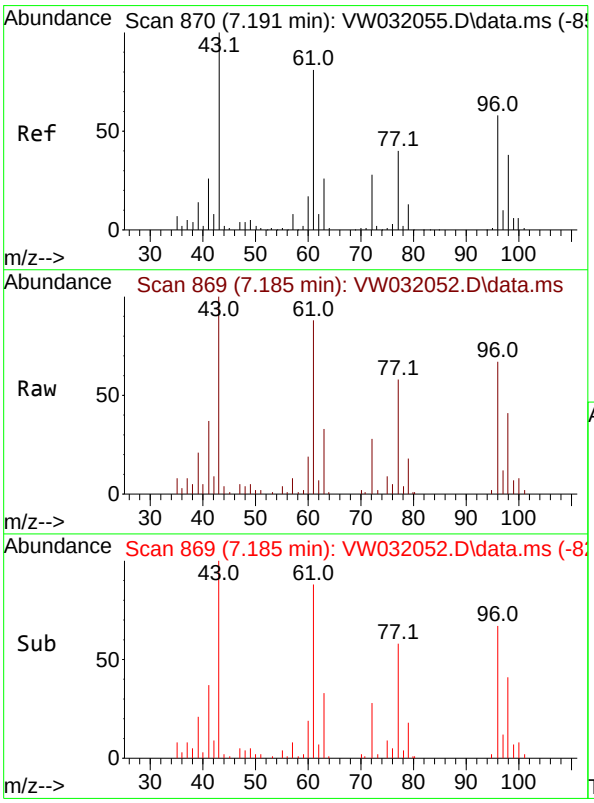
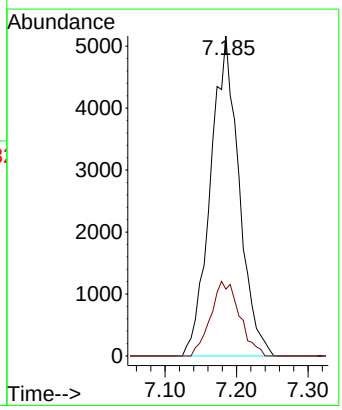


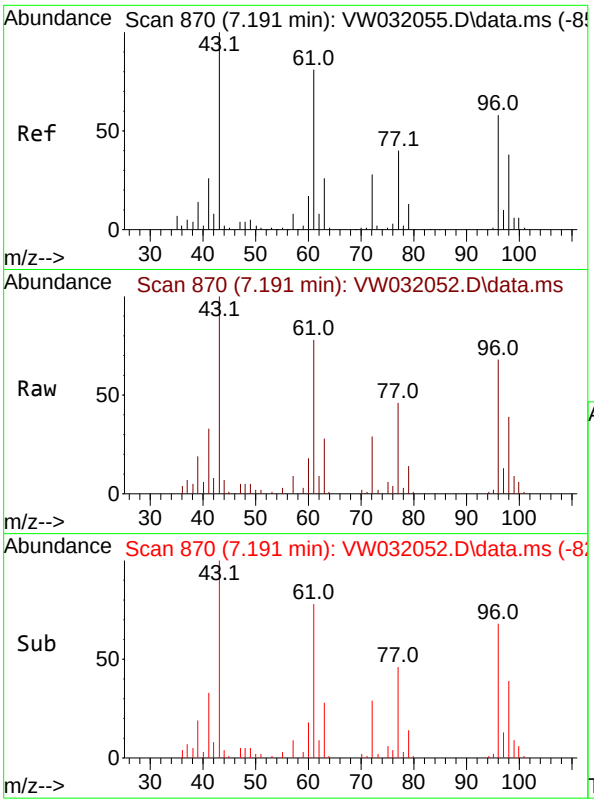


#26
2,2-Dichloropropane
Concen: 5.326 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 77 Resp: 14330

Ion	Ratio	Lower	Upper
77	100		
97	23.6	12.3	36.9

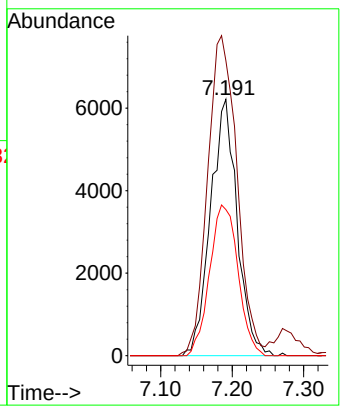




#27
cis-1,2-Dichloroethene
Concen: 4.727 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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ClientSampleId :
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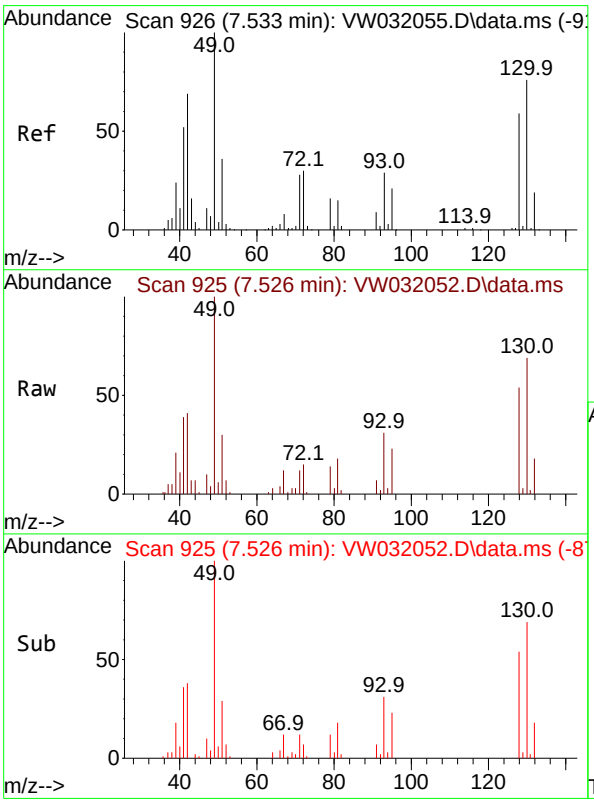
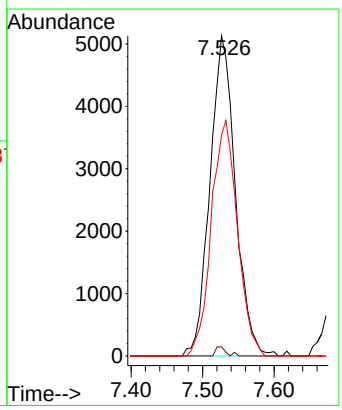
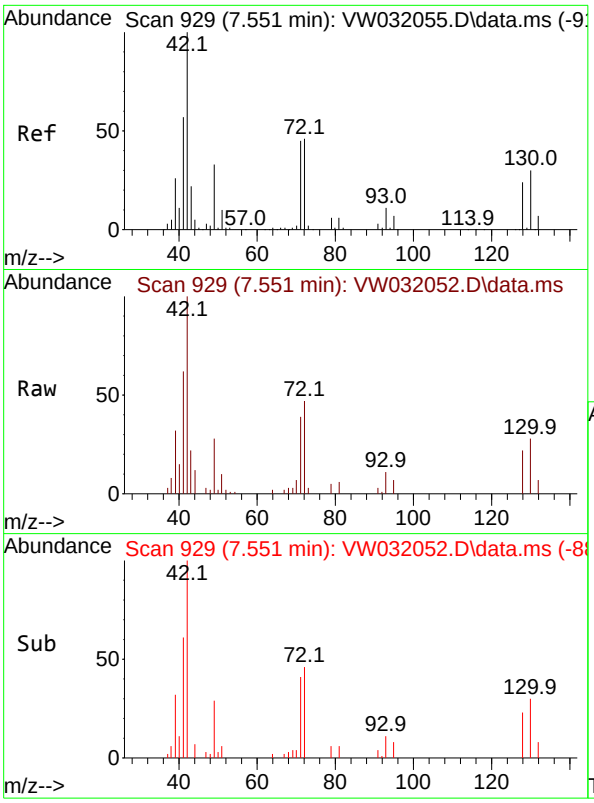


#28
Bromochloromethane
Concen: 5.188 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

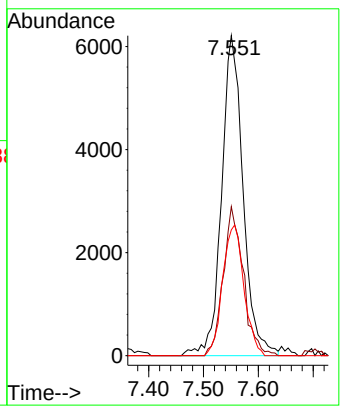




#29
Tetrahydrofuran
Concen: 23.963 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
VSTDICC005

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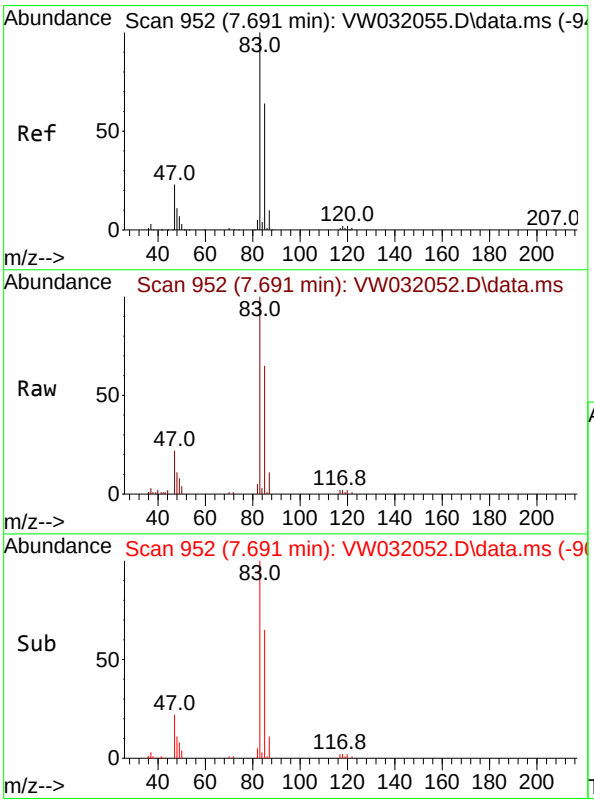
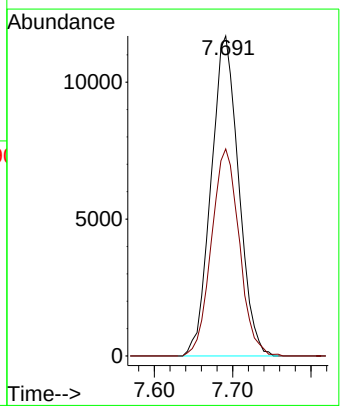
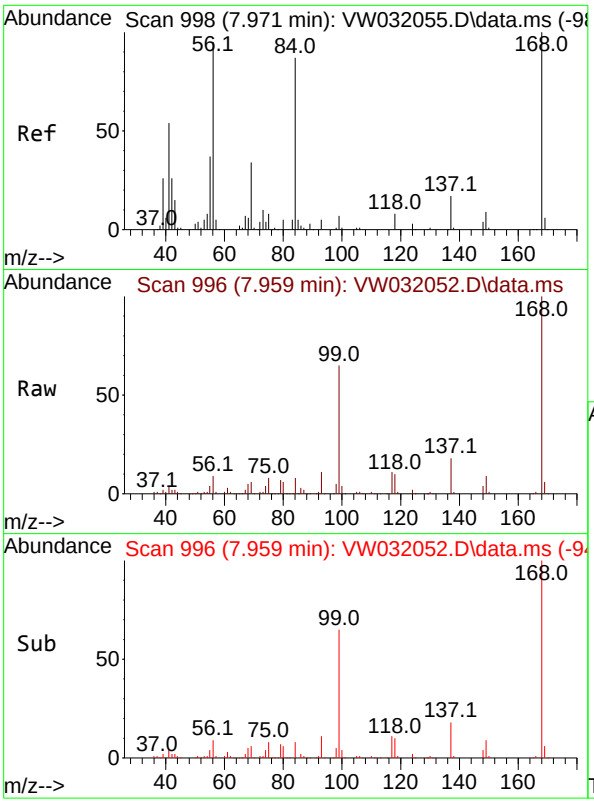


#30
Chloroform
Concen: 5.028 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 28586

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.0	76.4

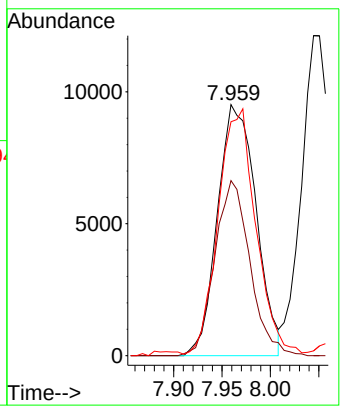




#31
Cyclohexane
Concen: 5.677 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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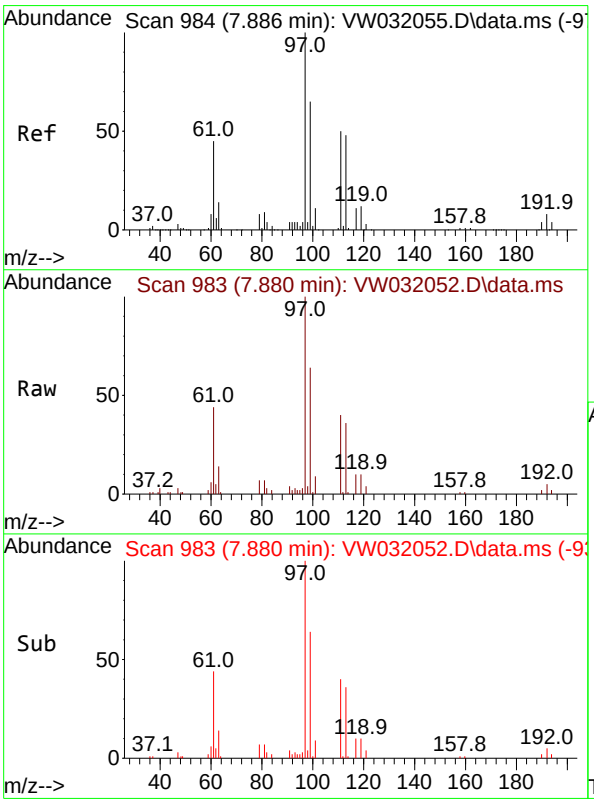
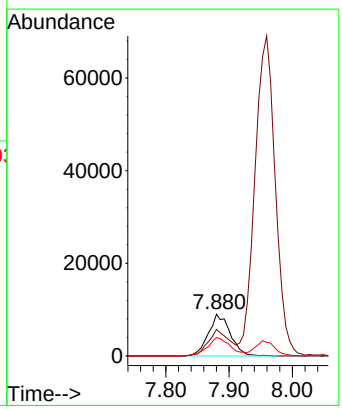
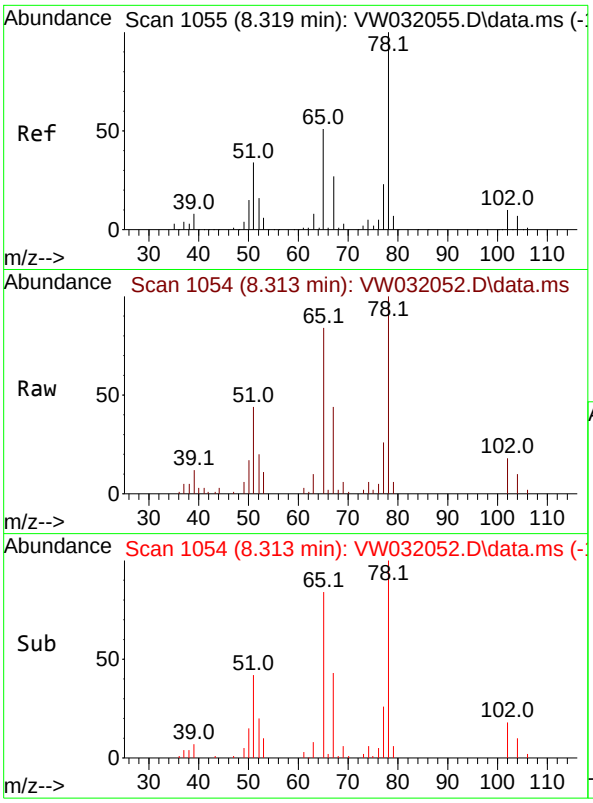


#32
1,1,1-Trichloroethane
Concen: 5.246 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

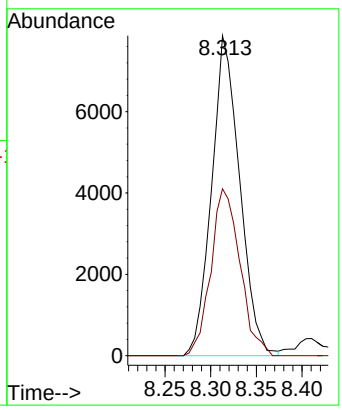




#33
1,2-Dichloroethane-d4
Concen: 5.158 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 65 Resp: 1682

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	102.4



Instrument :
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ClientSampleId :
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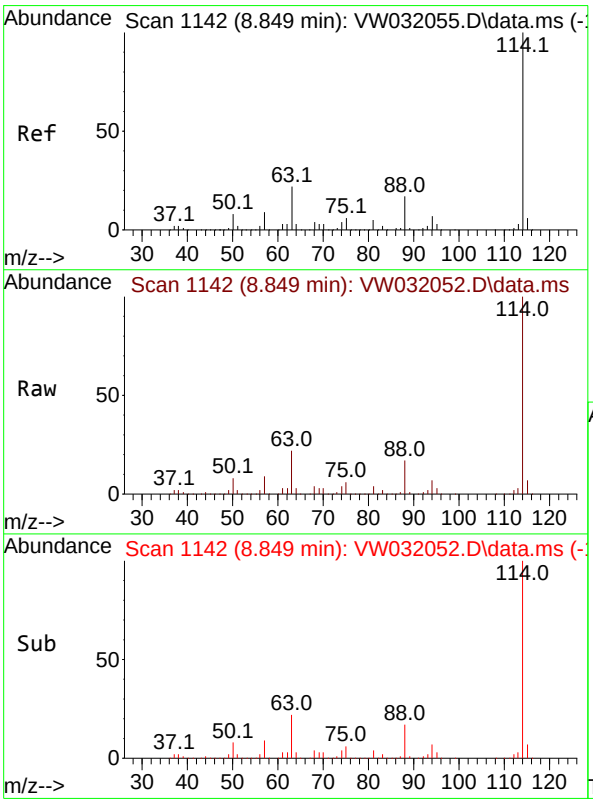
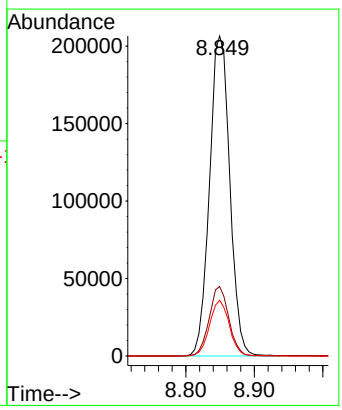
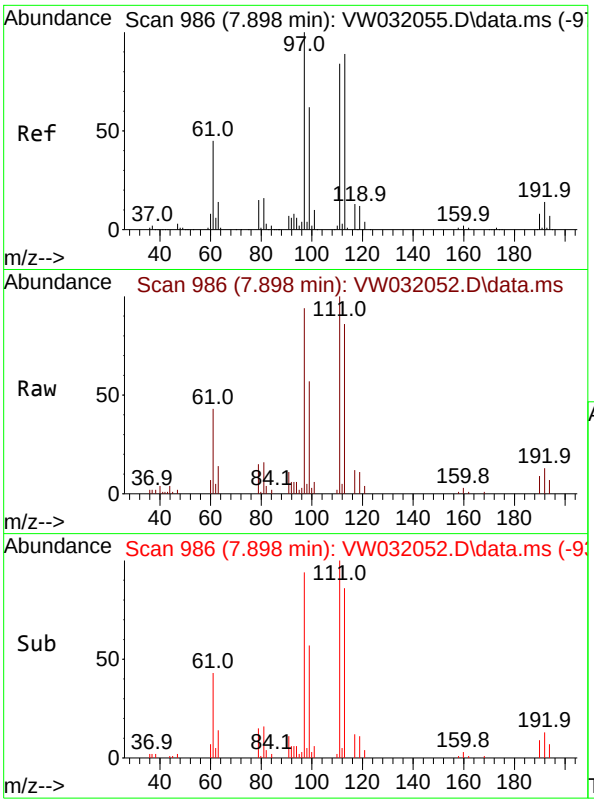


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

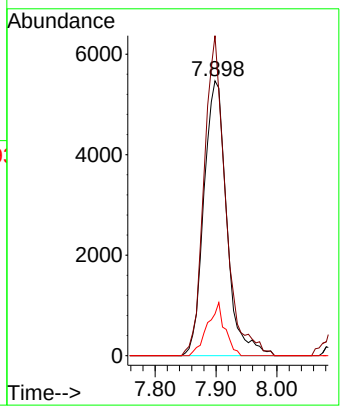




#35
Dibromofluoromethane
Concen: 5.205 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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ClientSampleId :
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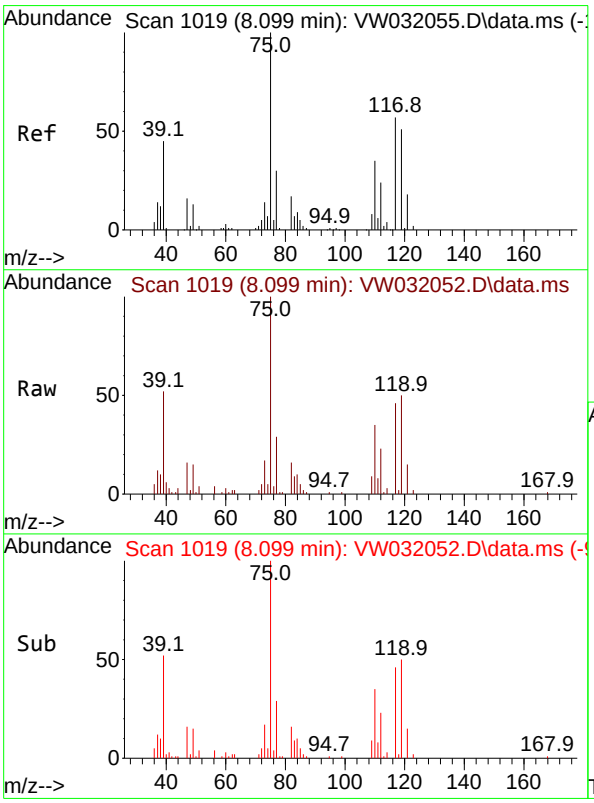
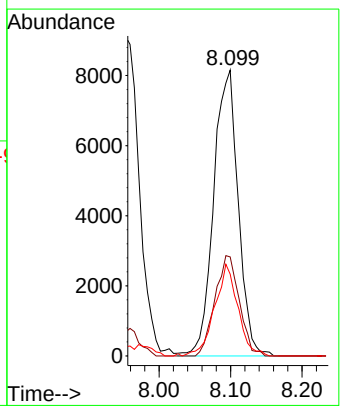
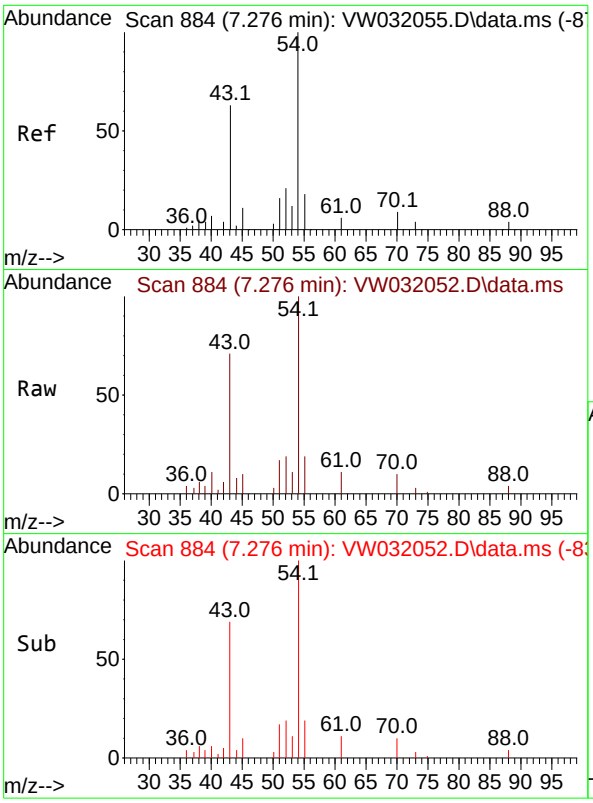


#36
1,1-Dichloropropene
Concen: 5.034 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

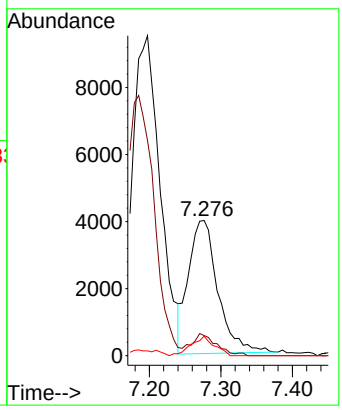




#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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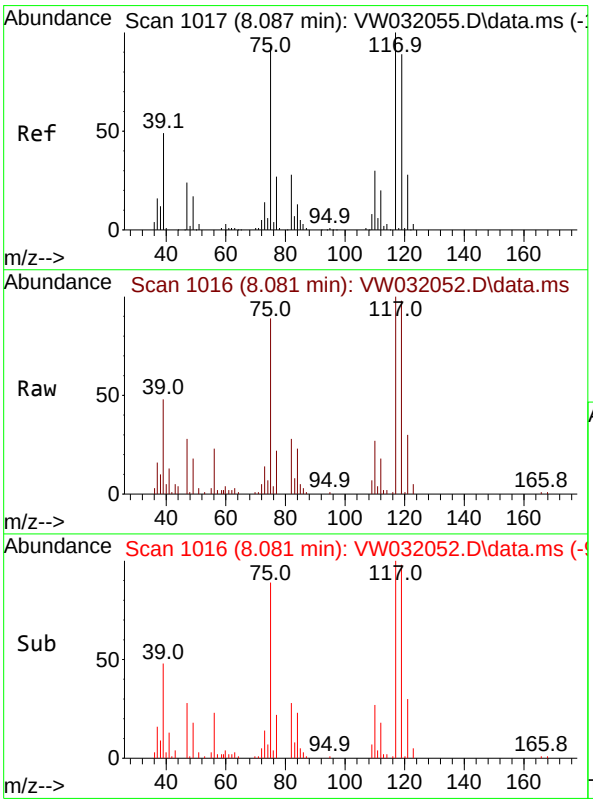
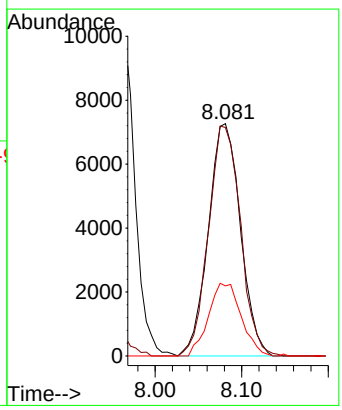
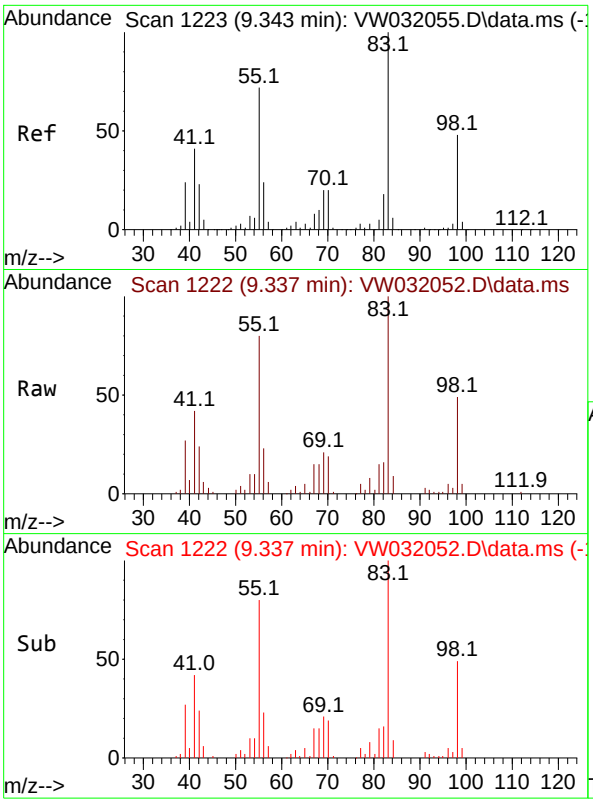


#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

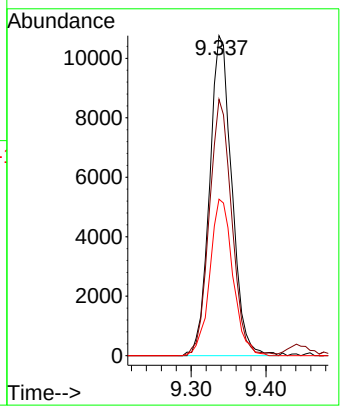




#39
Methylcyclohexane
Concen: 4.728 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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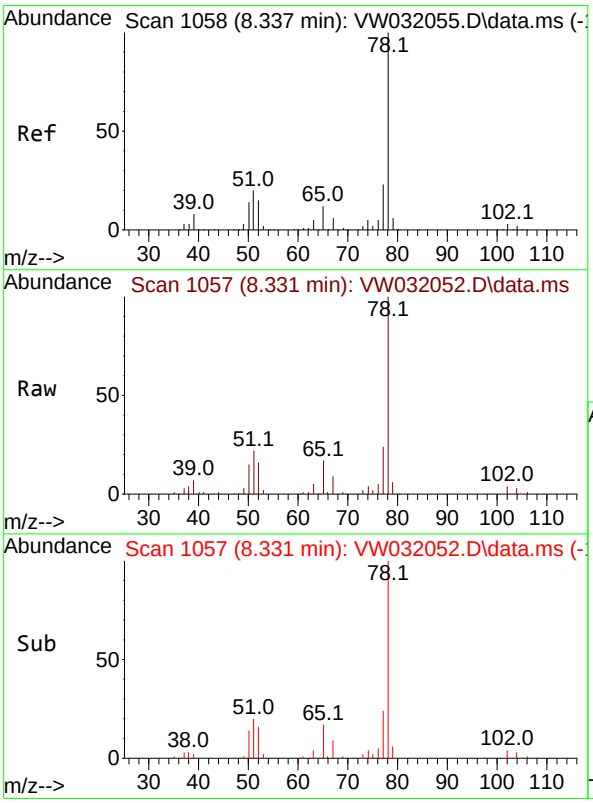
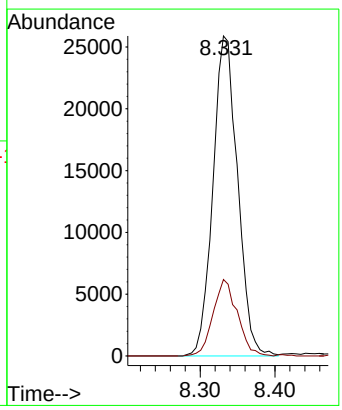
Supervised By :Semsettin Yesilyurt 08/12/2025

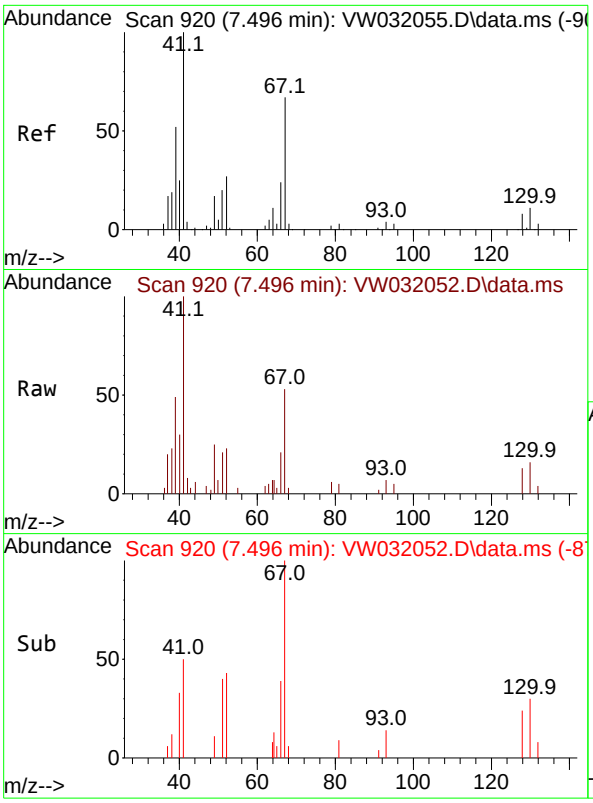


#40
Benzene
Concen: 4.941 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 78 Resp: 59395

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.4	27.6

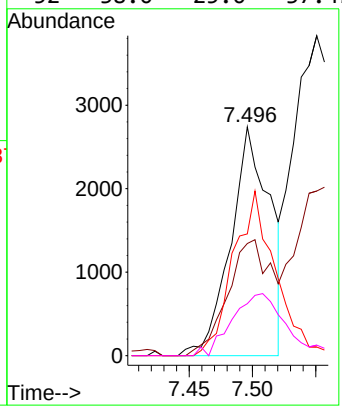




#41
Methacrylonitrile
Concen: 4.576 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

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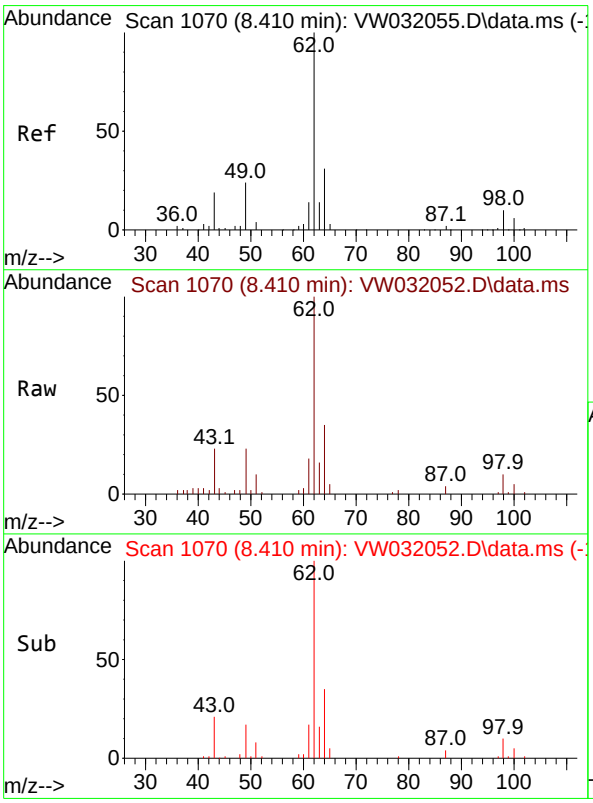
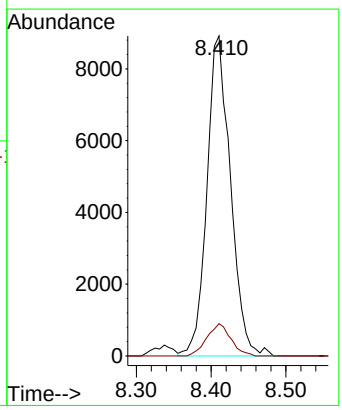
Supervised By :Semsettin Yesilyurt 08/12/2025

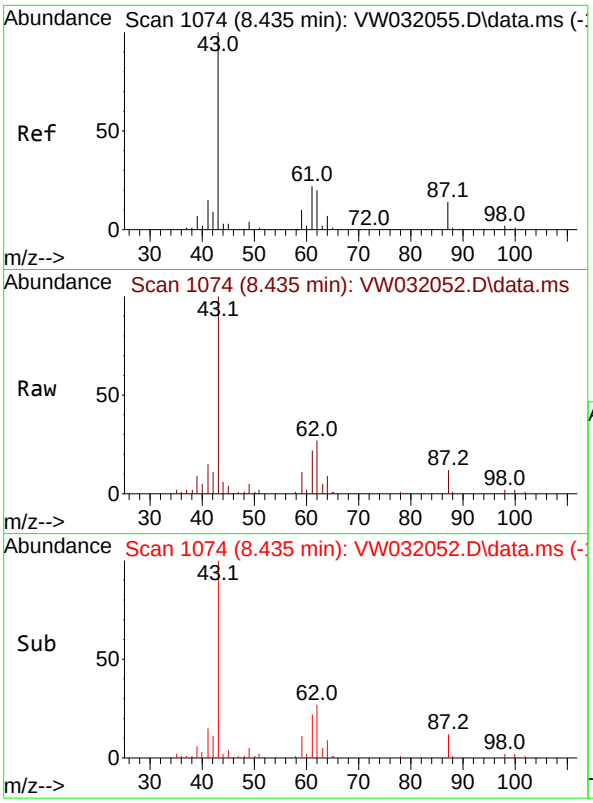


#42
1,2-Dichloroethane
Concen: 5.085 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 19560

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.8

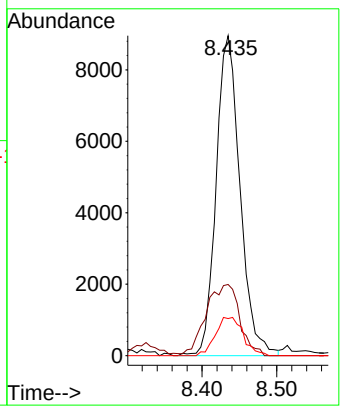




#43
Isopropyl Acetate
Concen: 4.756 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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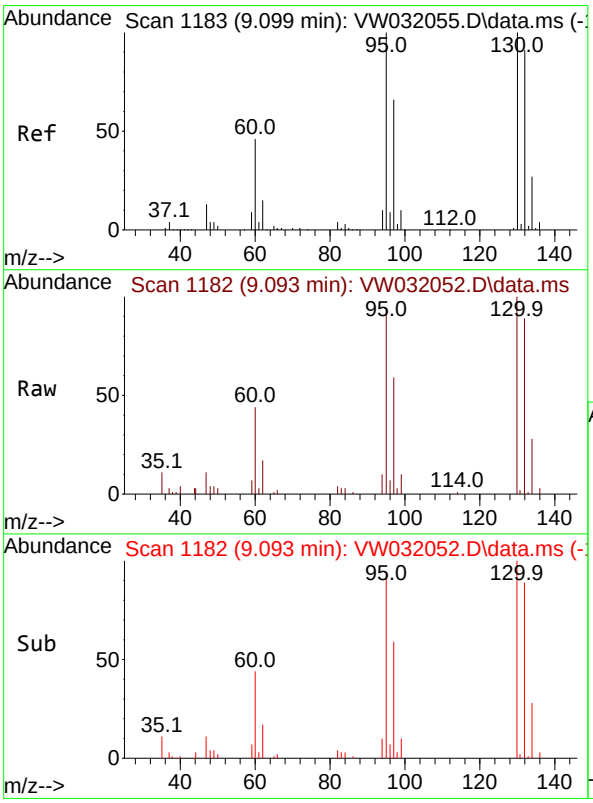
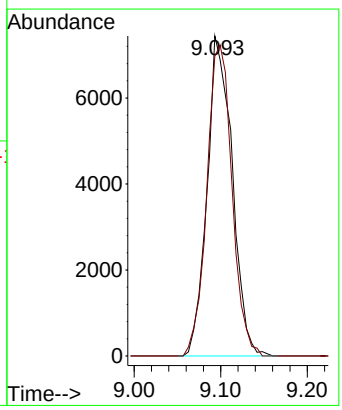
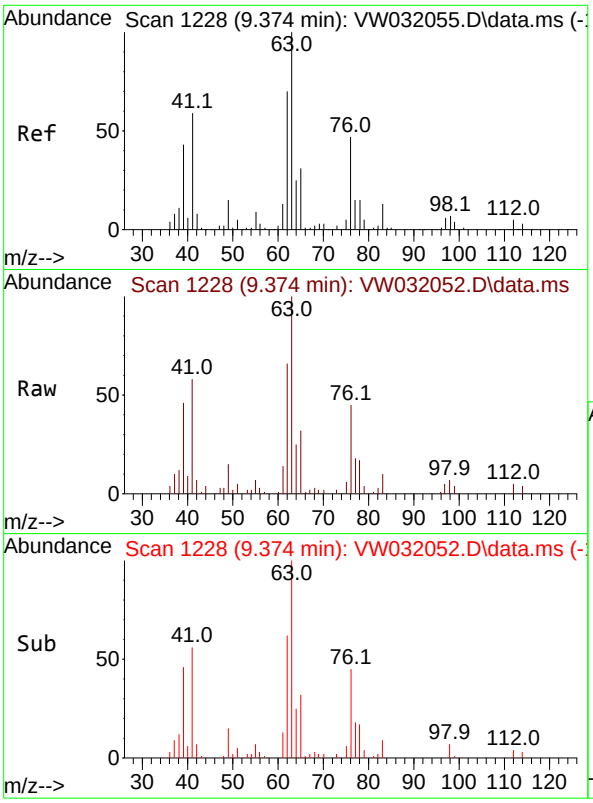


#44
Trichloroethene
Concen: 5.240 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:130 Resp: 14999

Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	200.6

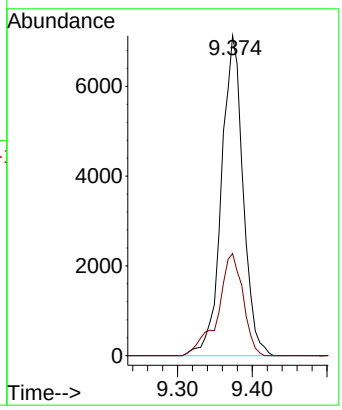




#45
1,2-Dichloropropane
Concen: 4.954 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 1438

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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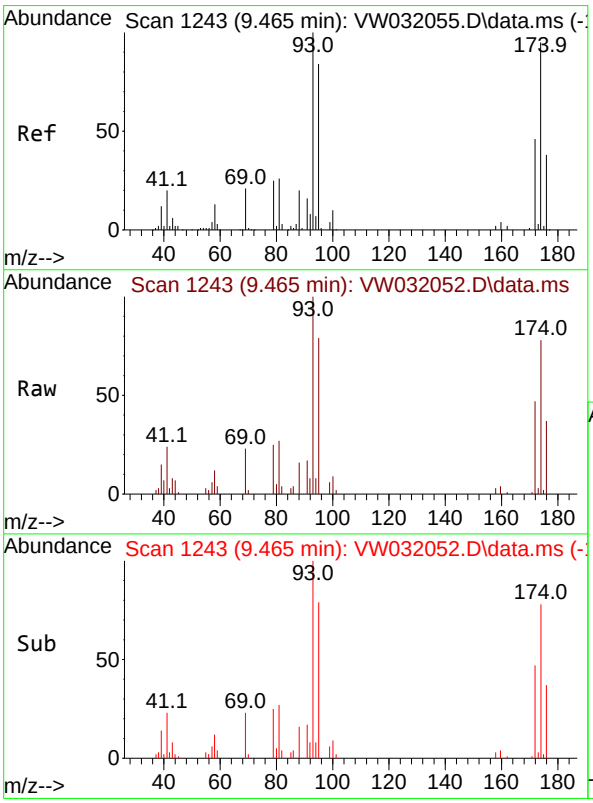
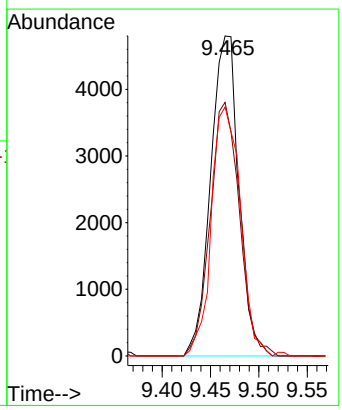
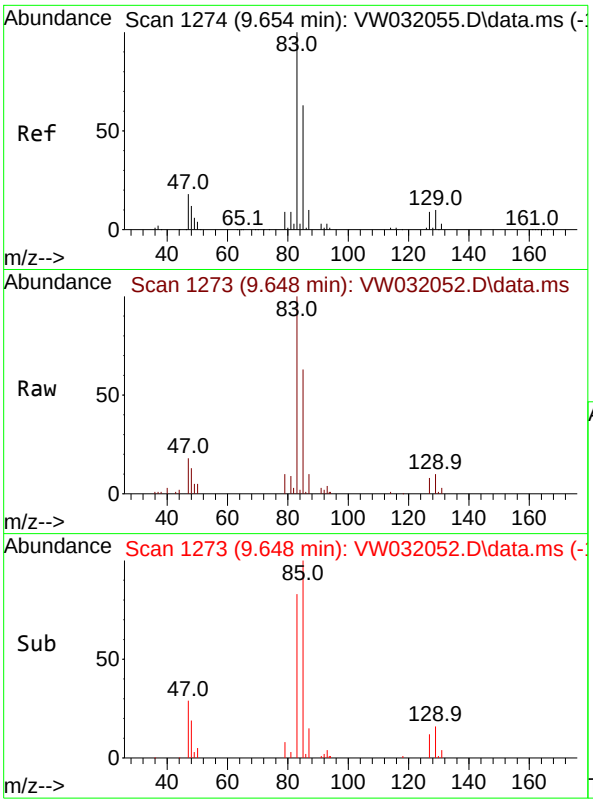


#46
Dibromomethane
Concen: 5.204 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

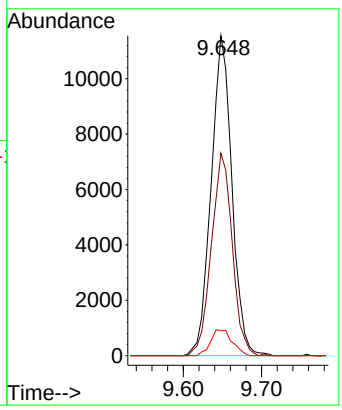




#47
Bromodichloromethane
Concen: 4.927 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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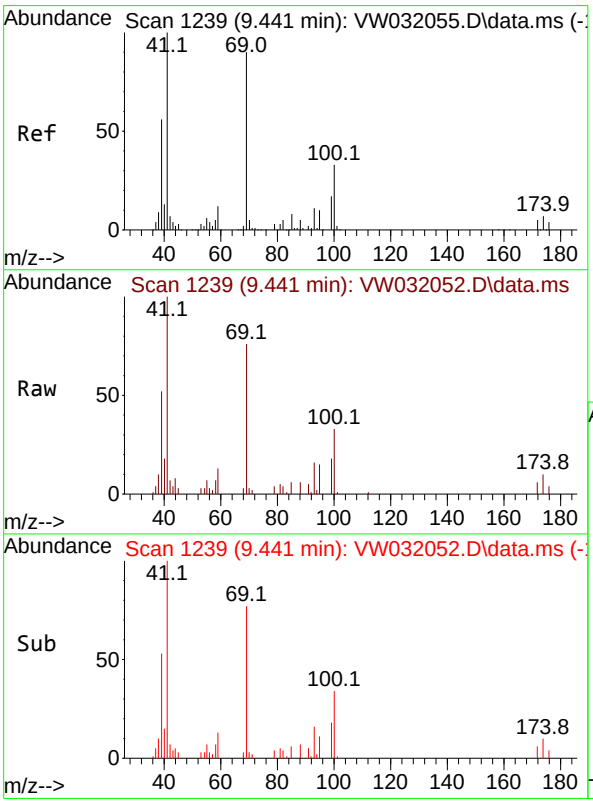
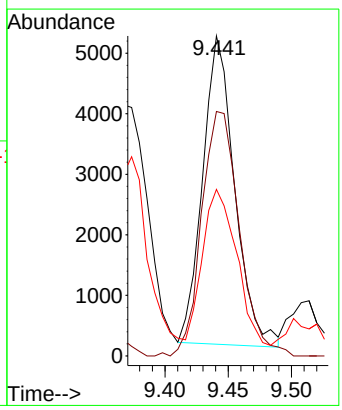
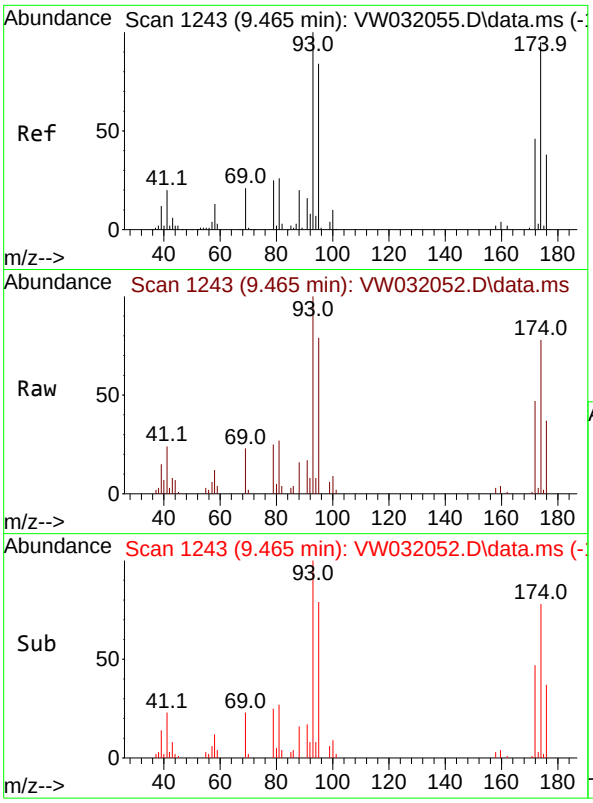


#48
Methyl methacrylate
Concen: 4.424 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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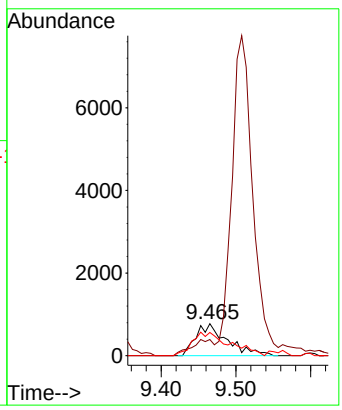
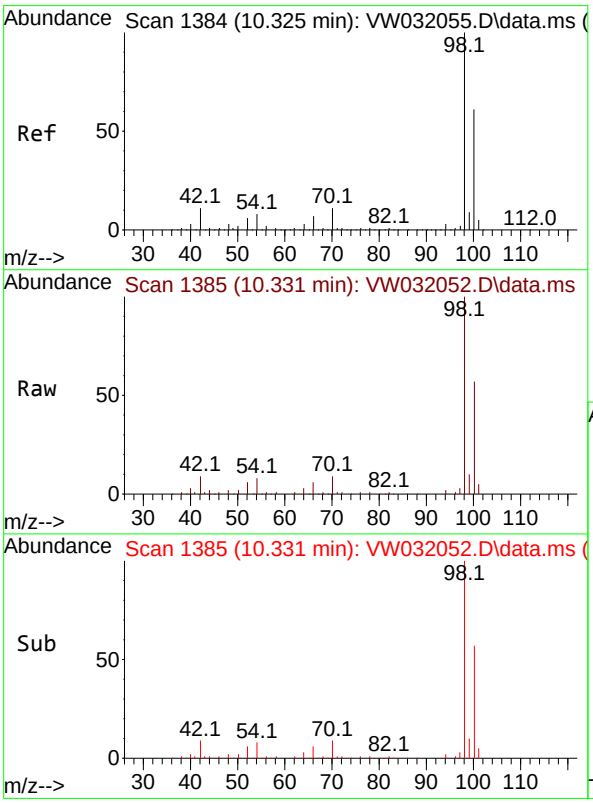
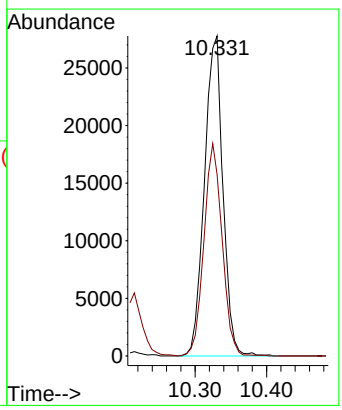


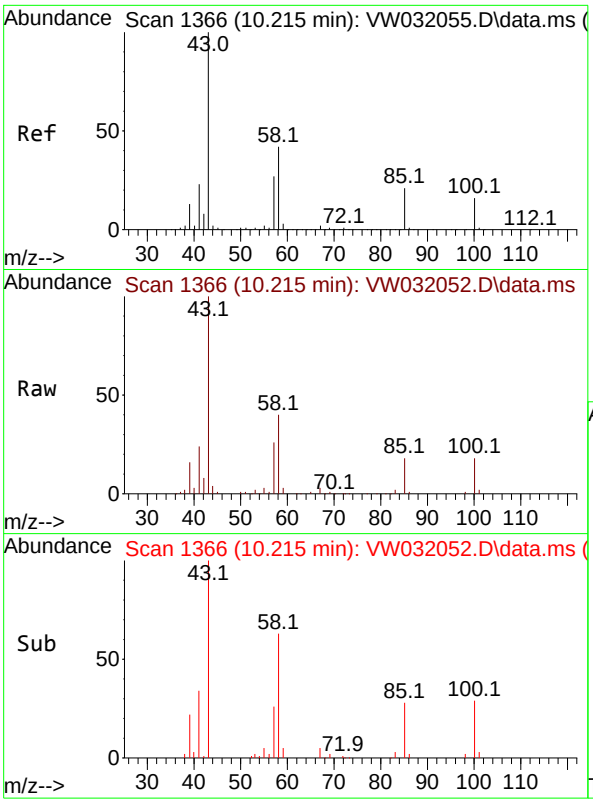


#50
Toluene-d8
Concen: 4.916 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 98 Resp: 49876

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.1	76.7

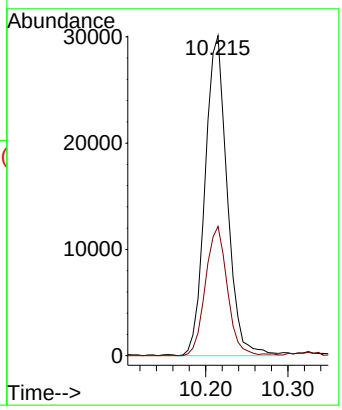




#51
4-Methyl-2-Pentanone
Concen: 23.755 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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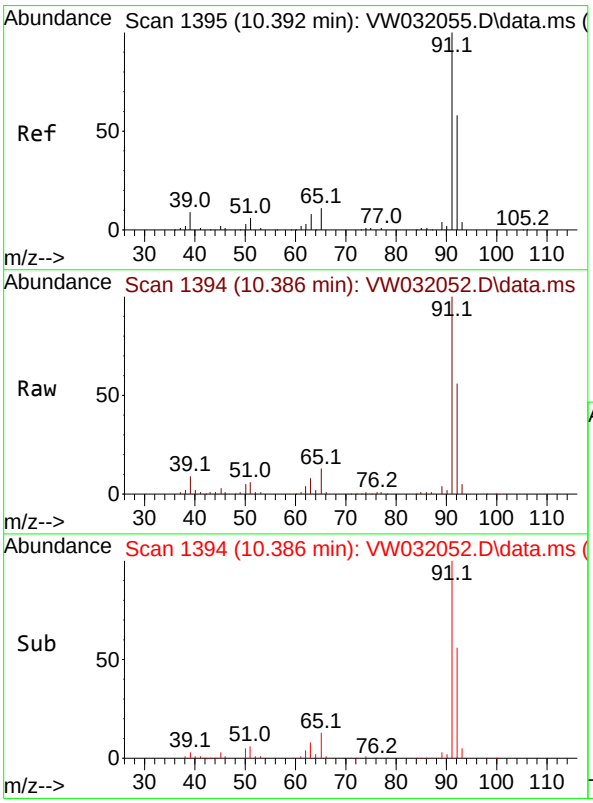
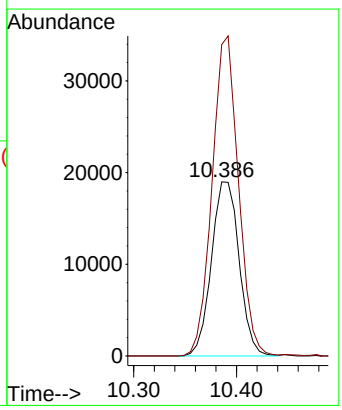
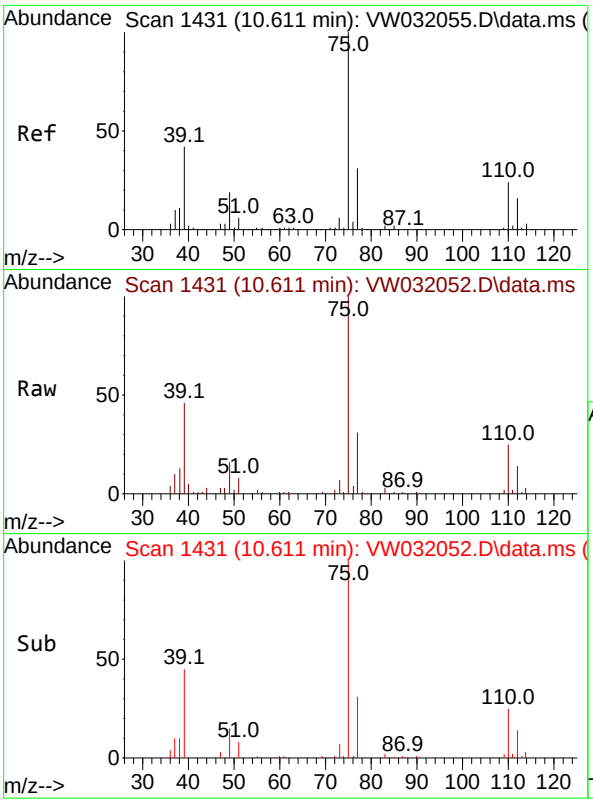


#52
Toluene
Concen: 4.692 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 92 Resp: 35525

Ion	Ratio	Lower	Upper
92	100		
91	175.5	136.3	204.5

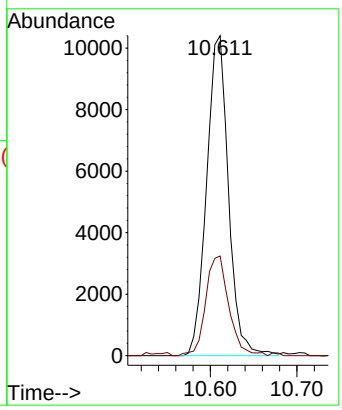




#53
t-1,3-Dichloropropene
Concen: 4.513 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 1825

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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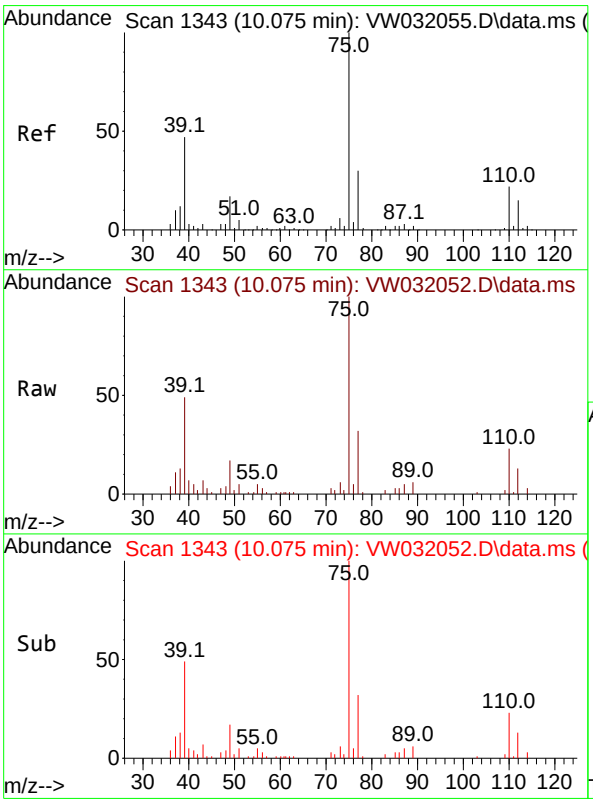
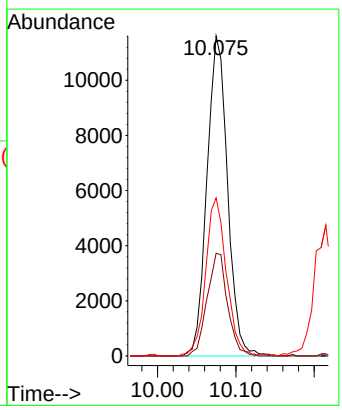
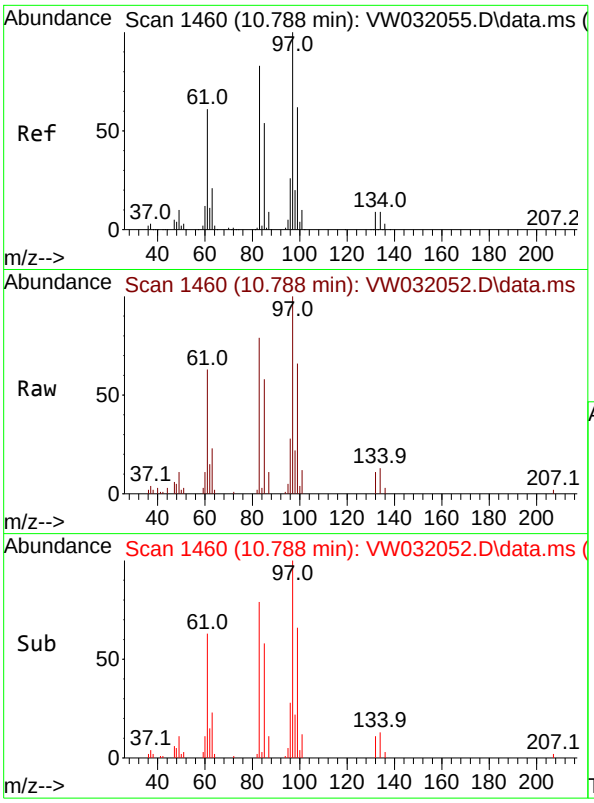


#54
cis-1,3-Dichloropropene
Concen: 4.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

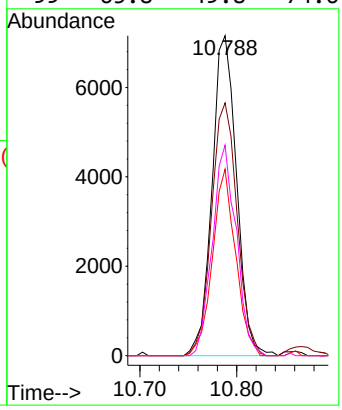




#55
1,1,2-Trichloroethane
Concen: 5.057 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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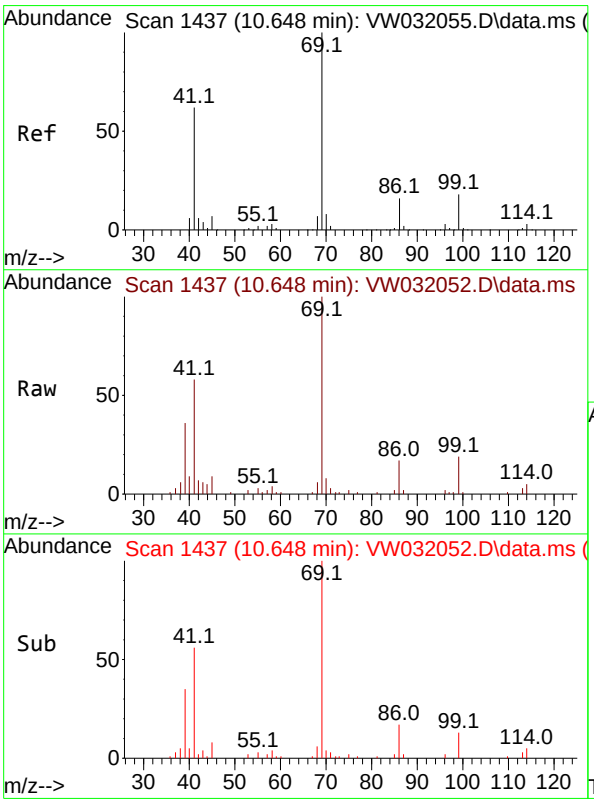
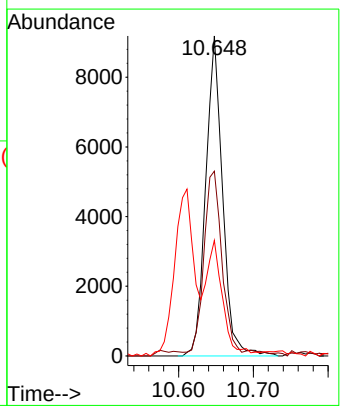
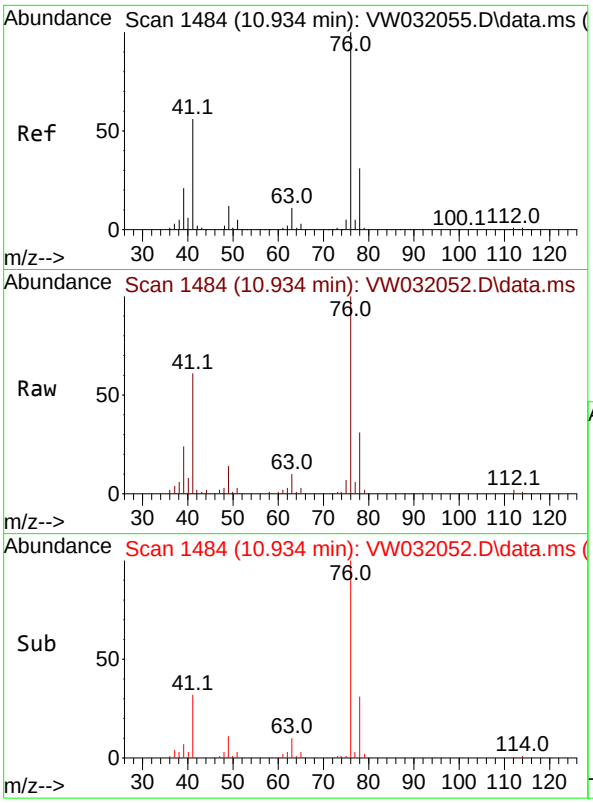


#56
Ethyl methacrylate
Concen: 4.317 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

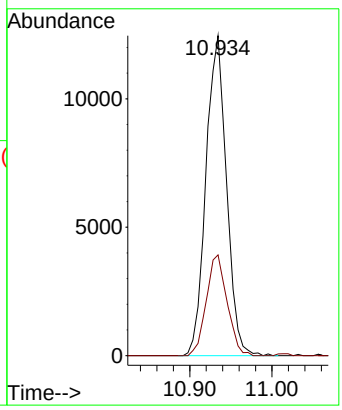




#57
1,3-Dichloropropane
Concen: 4.988 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 76 Resp: 2165

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.8	38.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

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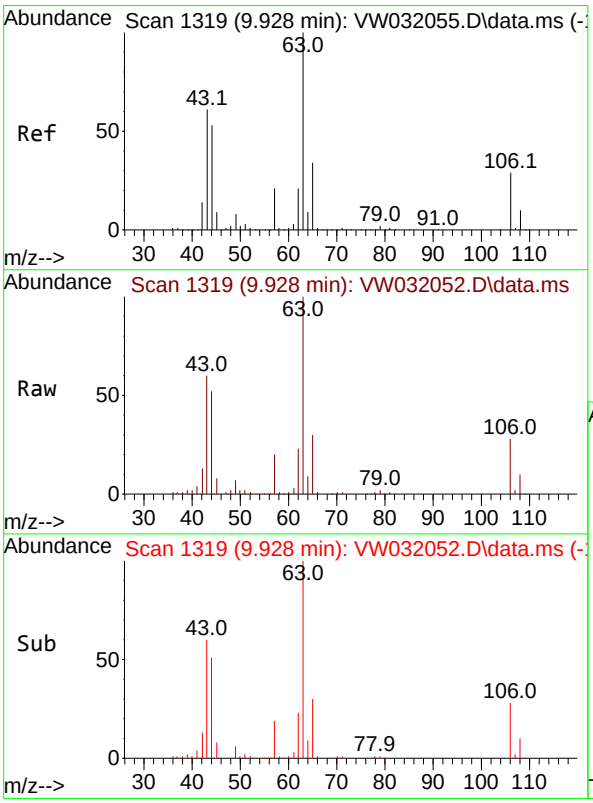
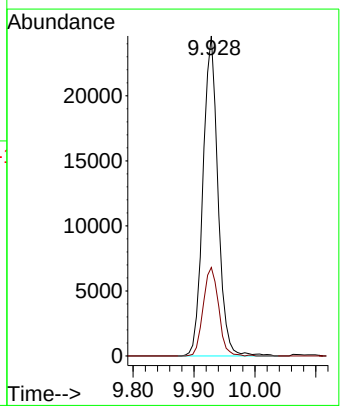
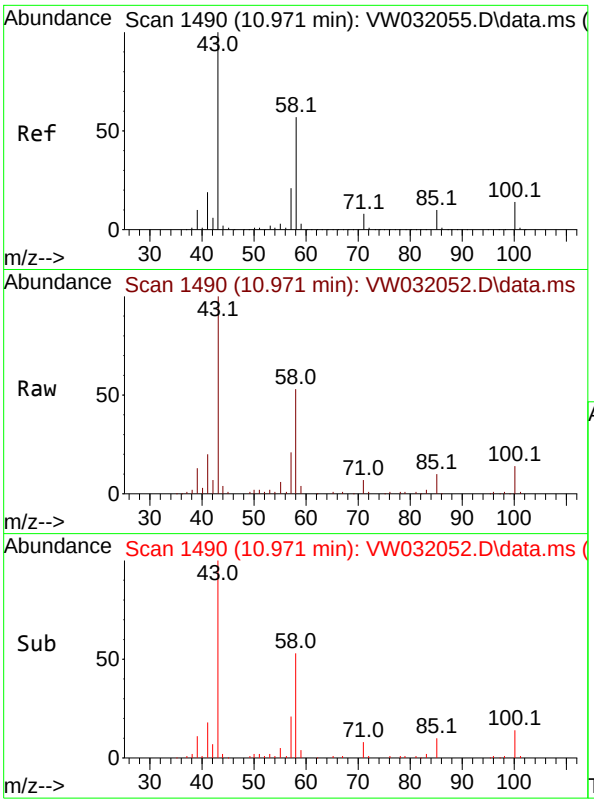


#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

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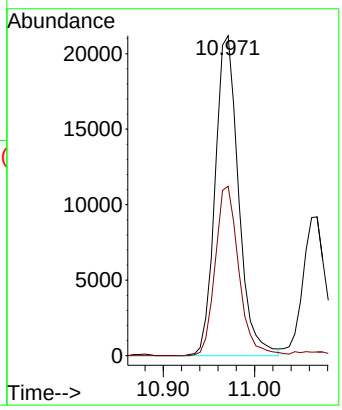
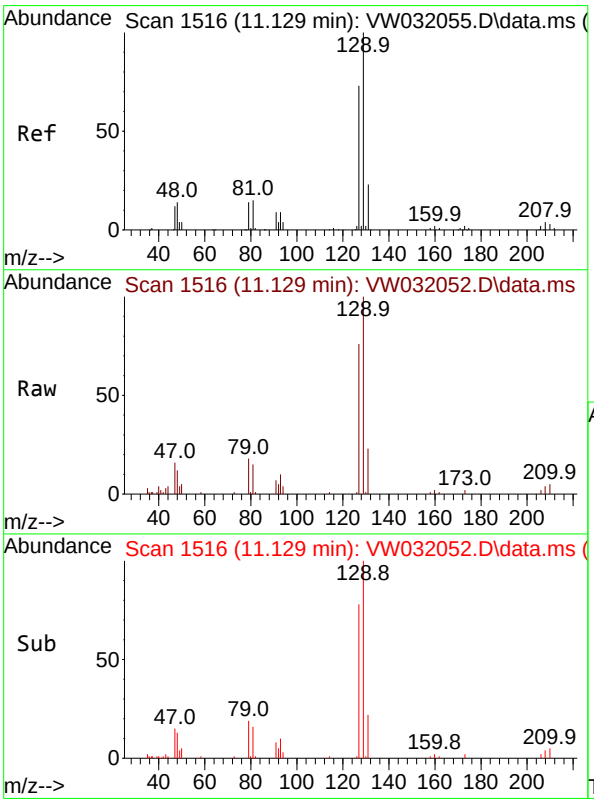
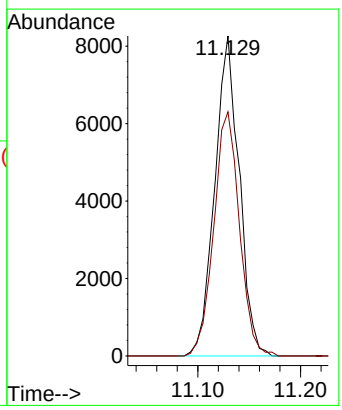


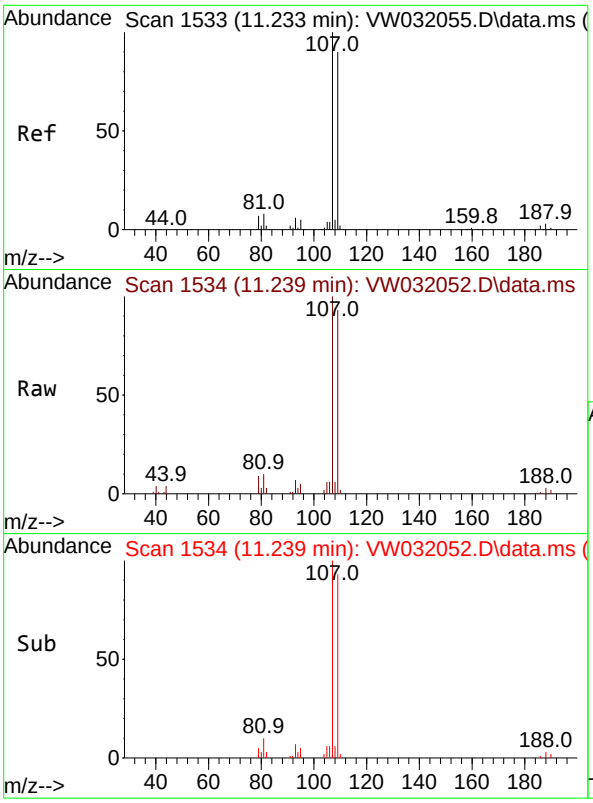


#60
Dibromochloromethane
Concen: 4.799 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

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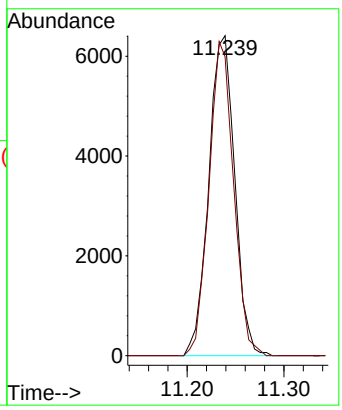
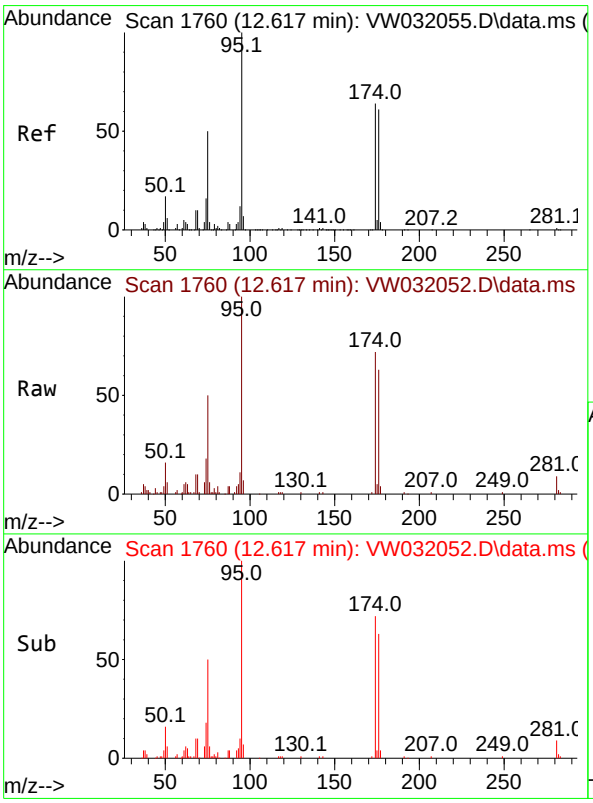
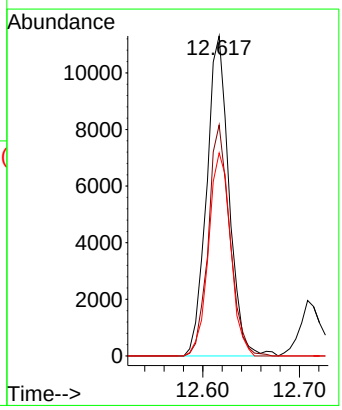


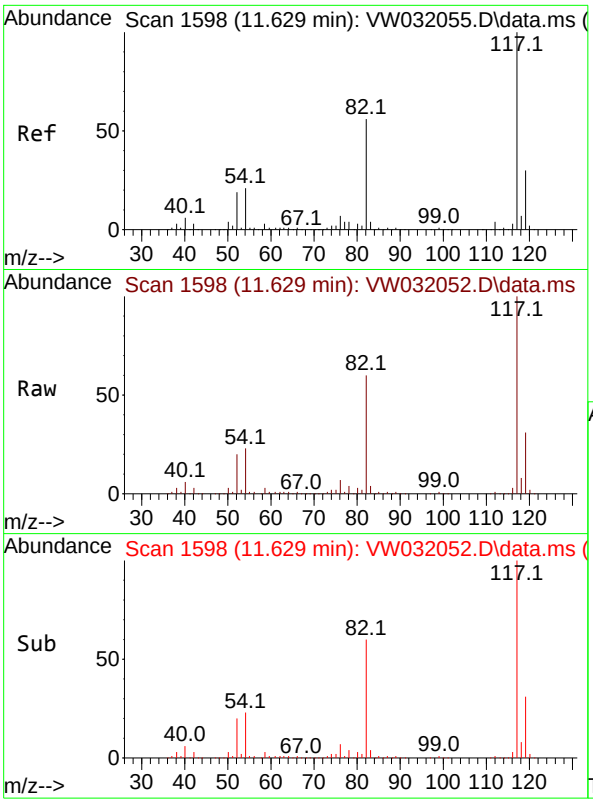


#62
4-Bromofluorobenzene
Concen: 4.863 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

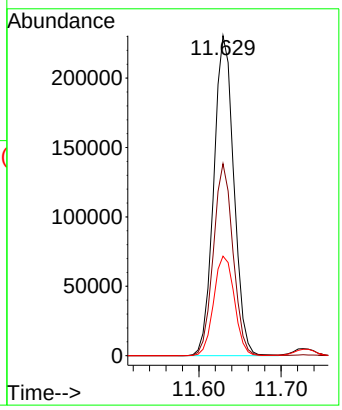




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 39123

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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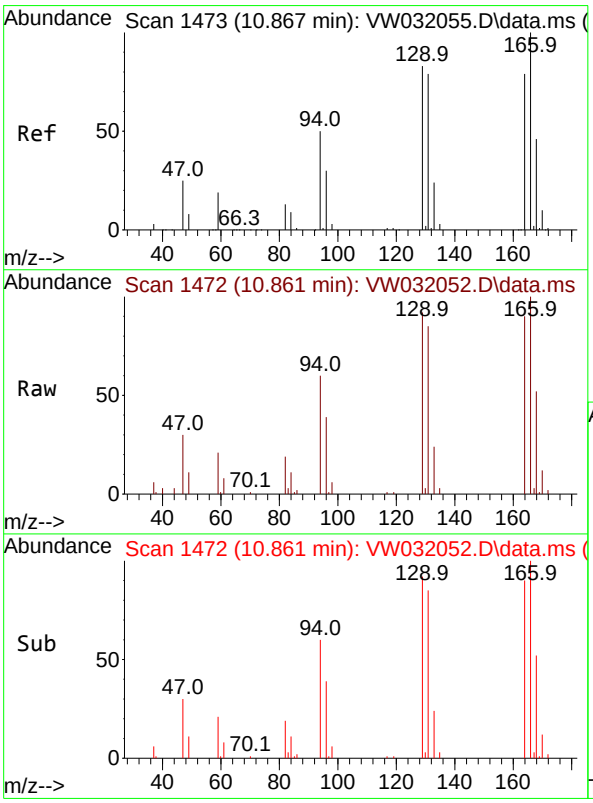
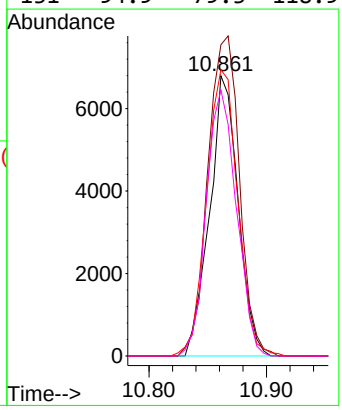
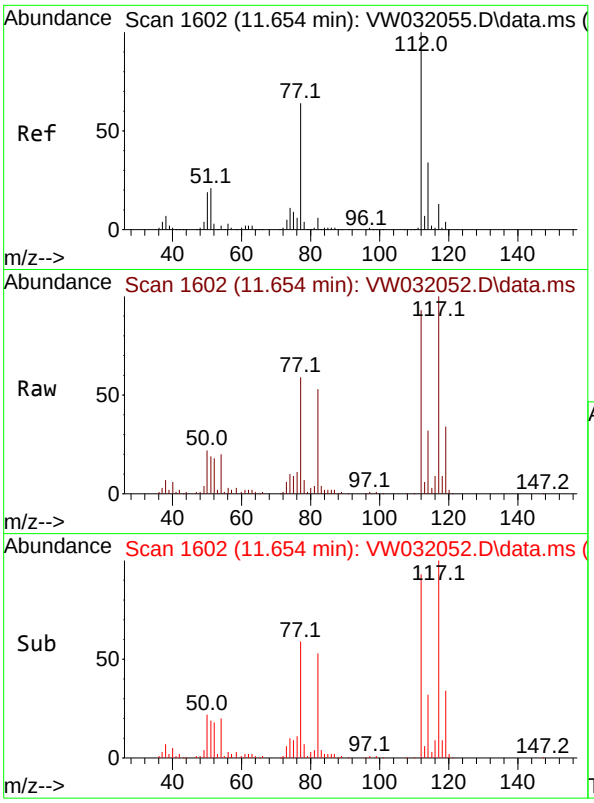


#64
Tetrachloroethene
Concen: 5.066 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

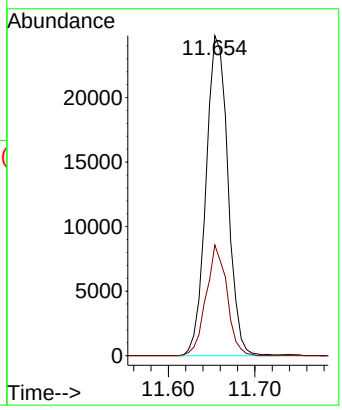




#65
Chlorobenzene
Concen: 5.110 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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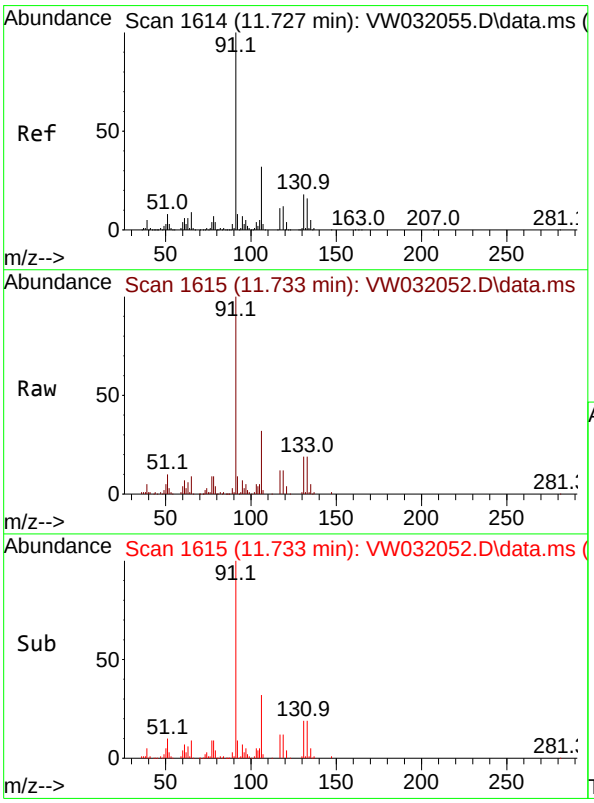
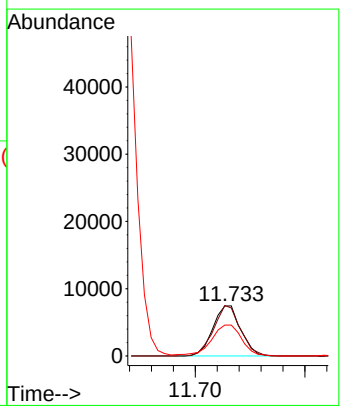
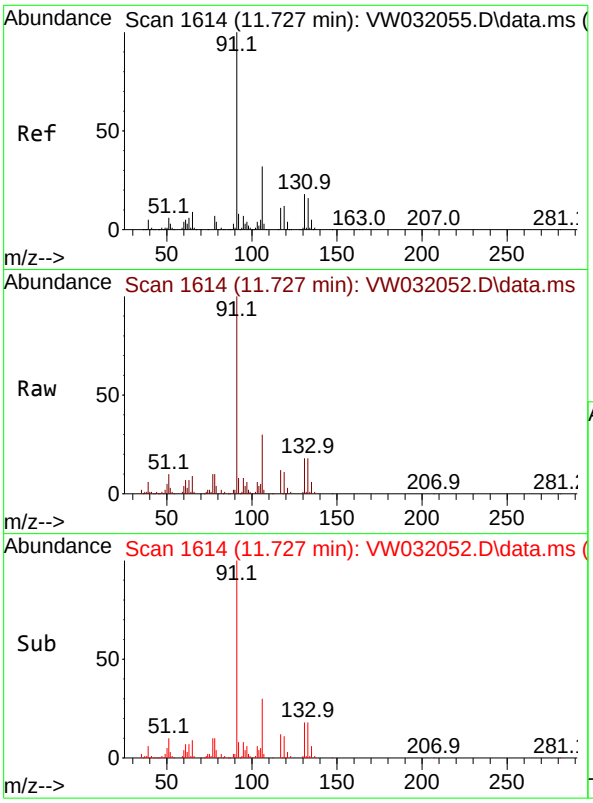


#66
1,1,1,2-Tetrachloroethane
Concen: 4.907 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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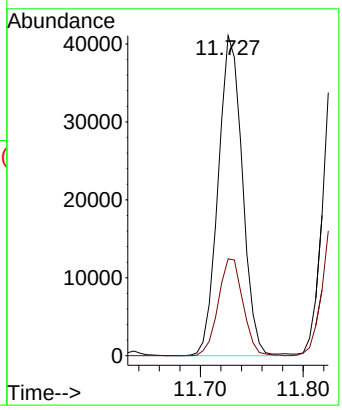
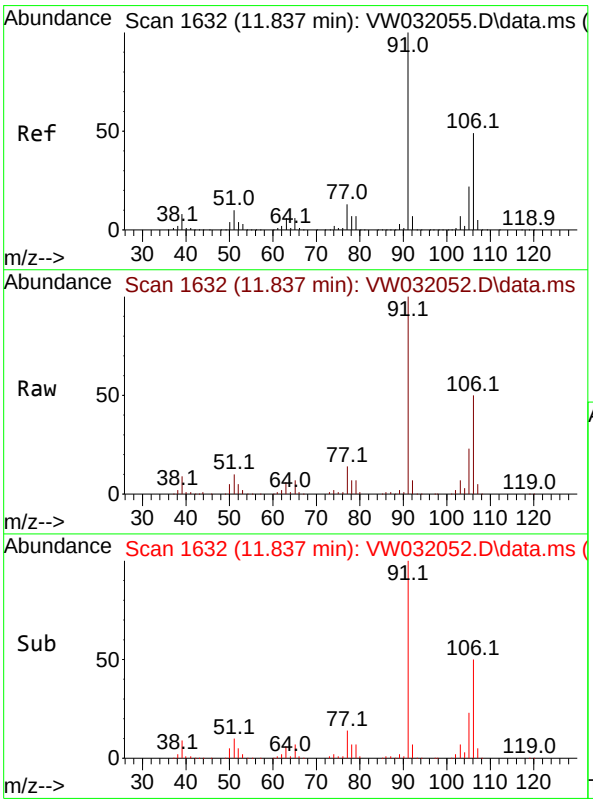
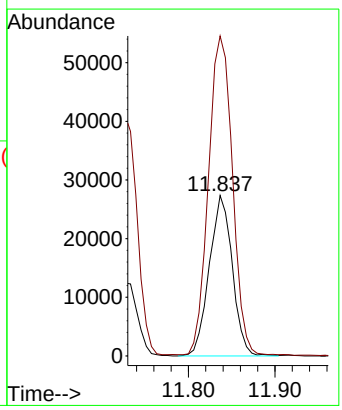


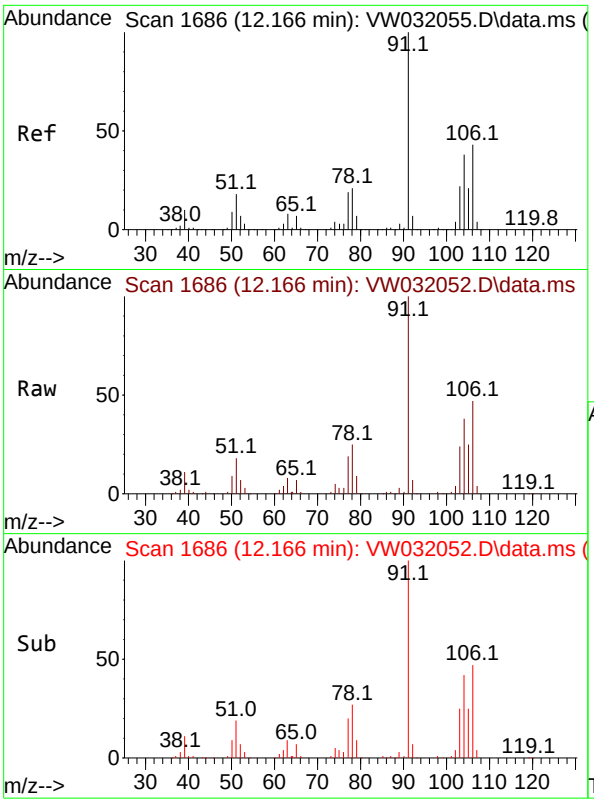


#68
m/p-Xylenes
Concen: 9.070 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 50482

Ion	Ratio	Lower	Upper
106	100		
91	209.1	162.2	243.2

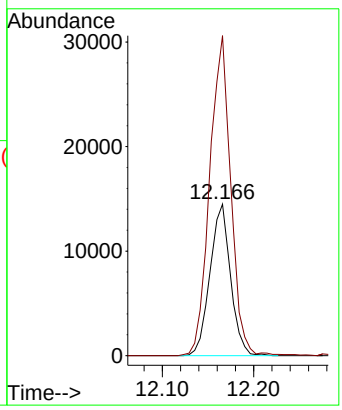




#69
o-Xylene
Concen: 4.393 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 2260

Ion	Ratio	Lower	Upper
106	100		
91	217.4	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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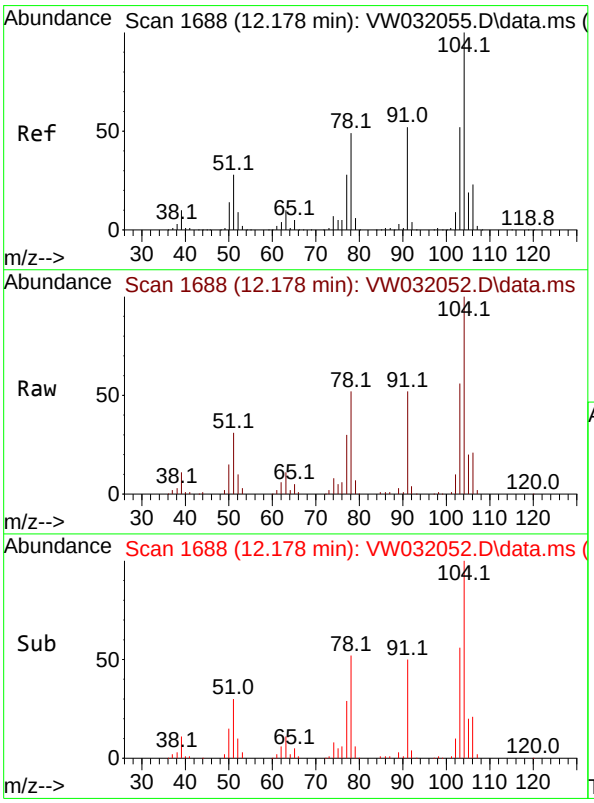
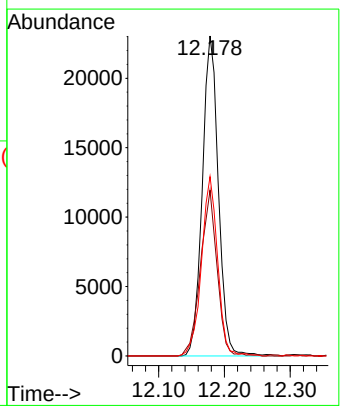
Supervised By :Semsettin Yesilyurt 08/12/2025

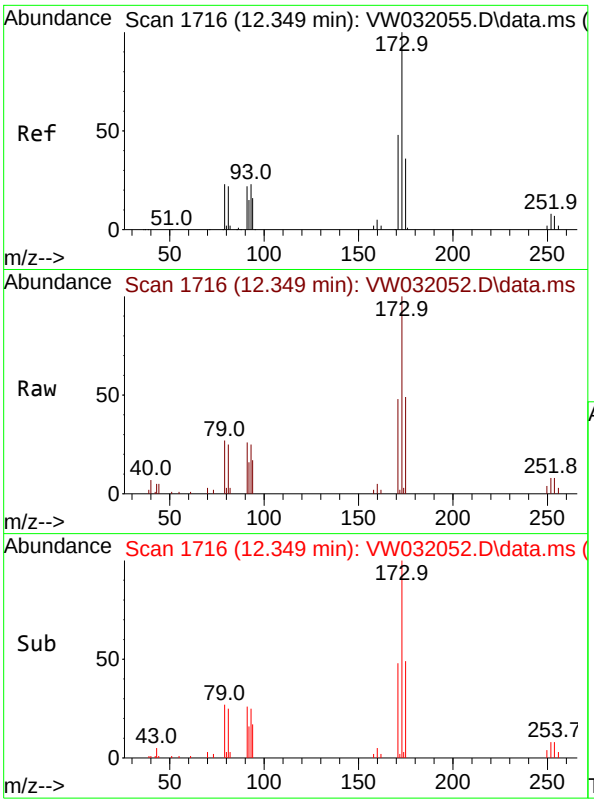


#70
Styrene
Concen: 4.300 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

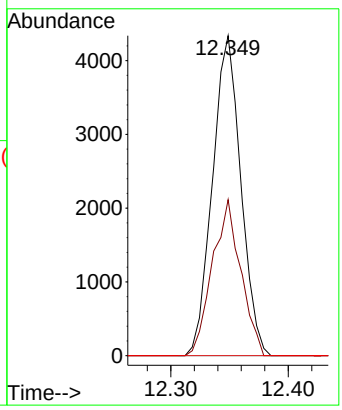




#71
Bromoform
Concen: 4.792 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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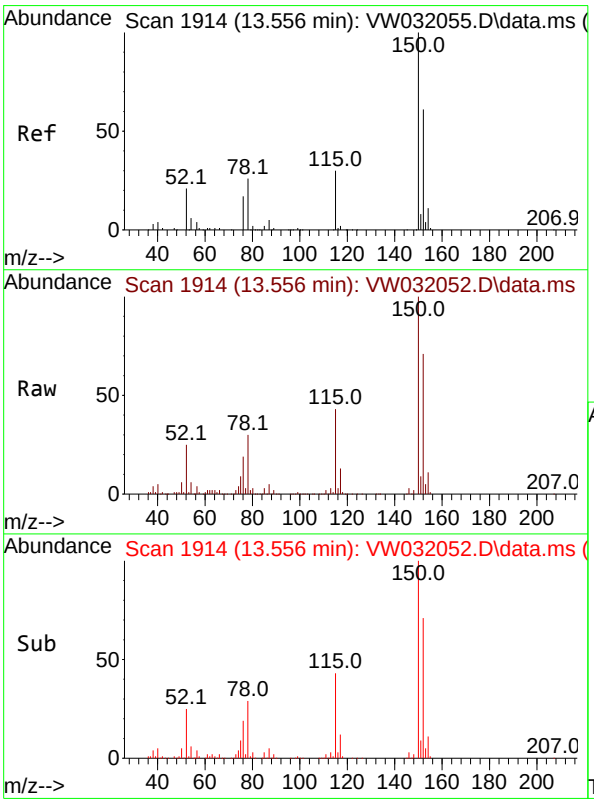
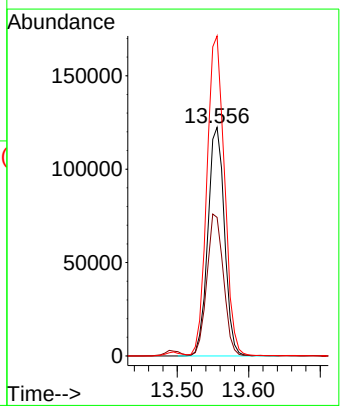
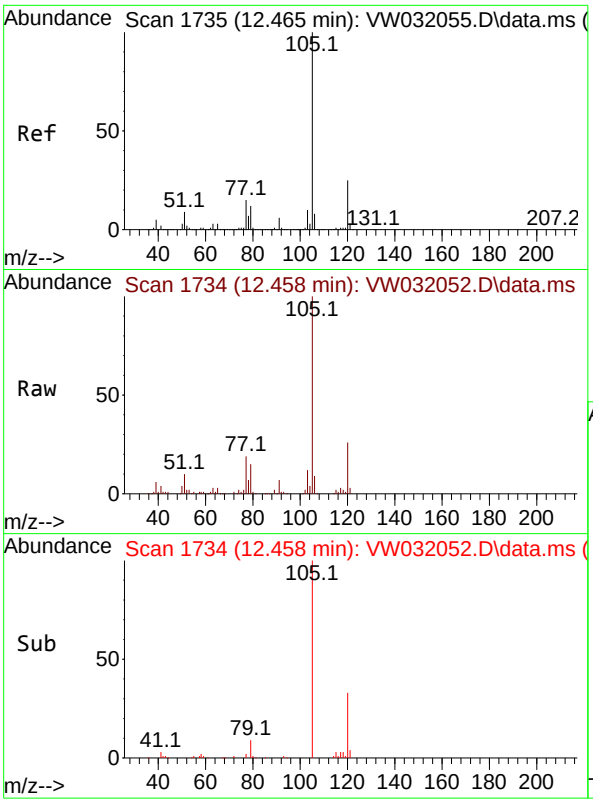


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

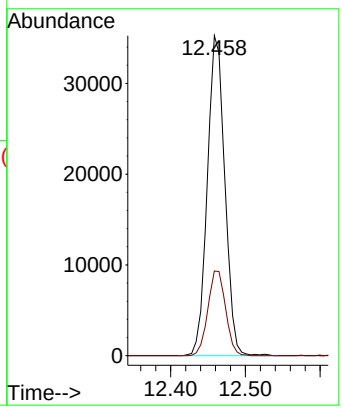




#73
Isopropylbenzene
Concen: 4.164 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 5730

Ion	Ratio	Lower	Upper
105	100		
120	26.8	12.8	38.4



Instrument :
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ClientSampleId :
VSTDICC005

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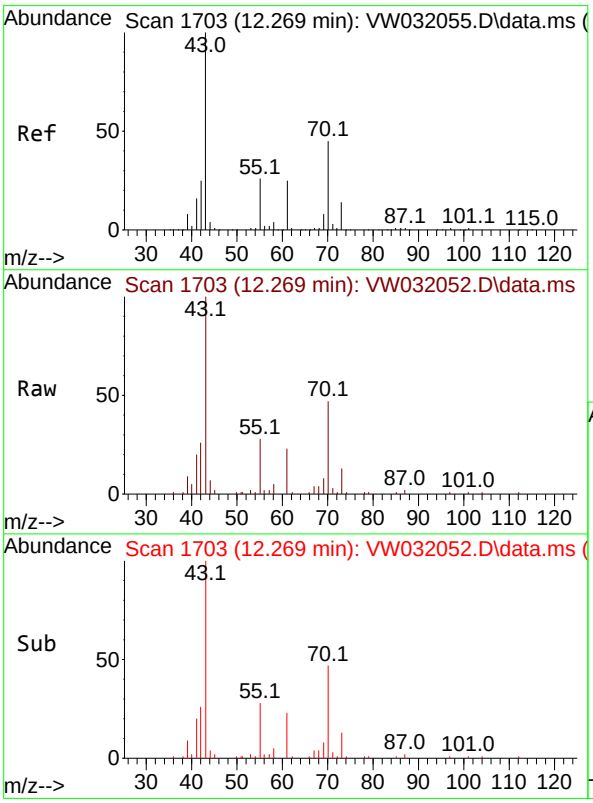
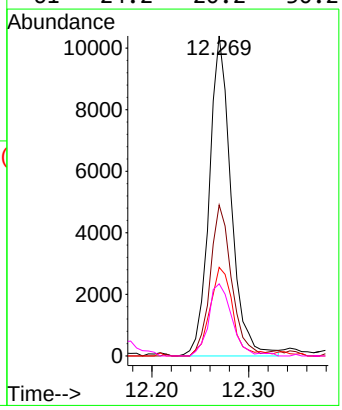
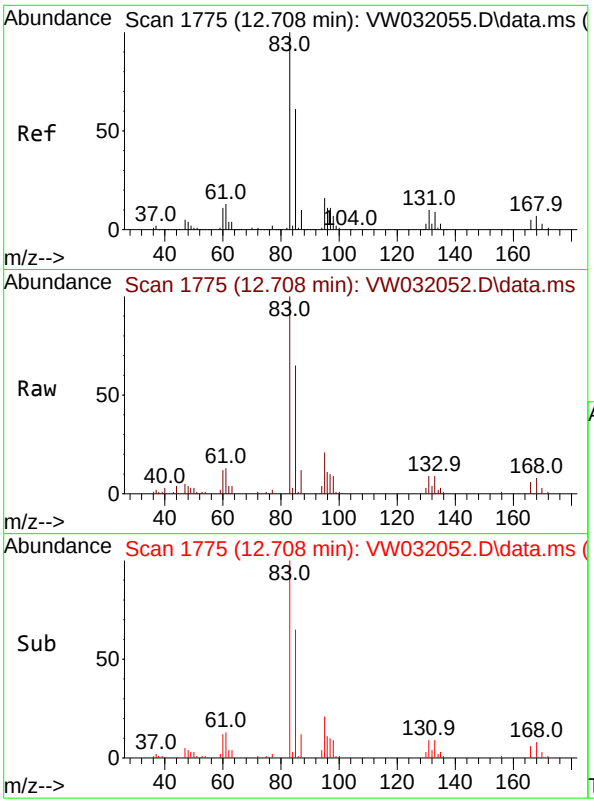


#74
N-amyl acetate
Concen: 4.135 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

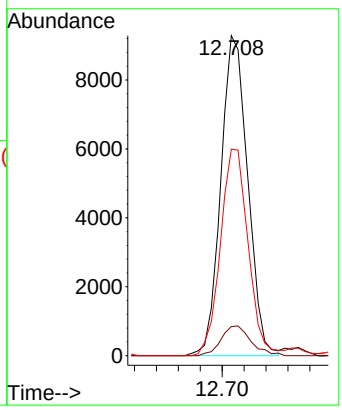




#75
1,1,2,2-Tetrachloroethane
Concen: 4.836 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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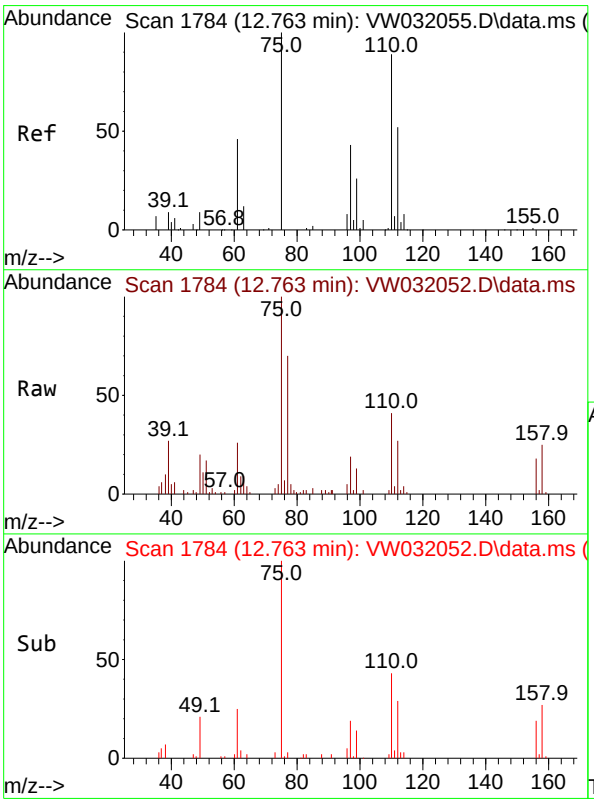
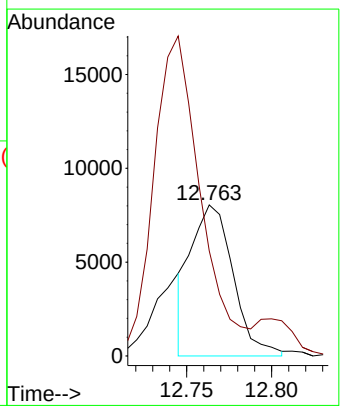
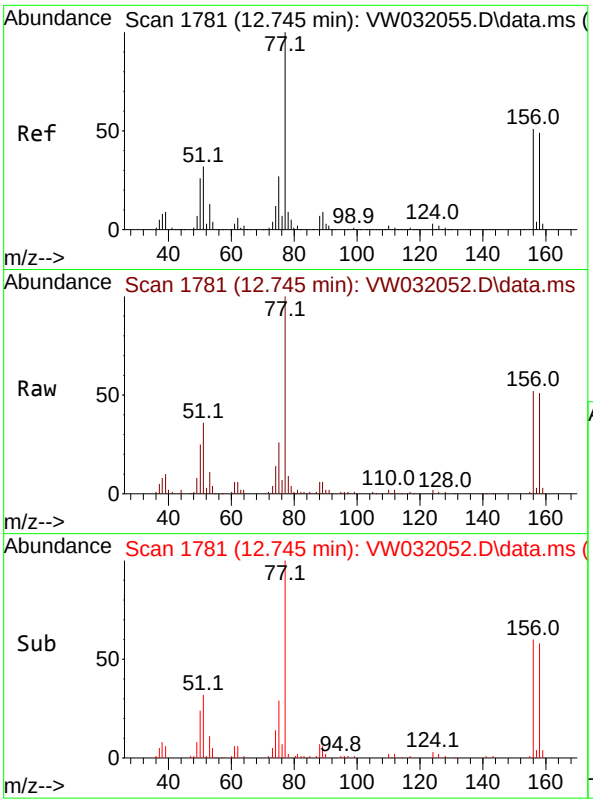


#76
1,2,3-Trichloropropane
Concen: 4.568 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 13829

Ion	Ratio	Lower	Upper
75	100		
77	238.4	123.5	370.5

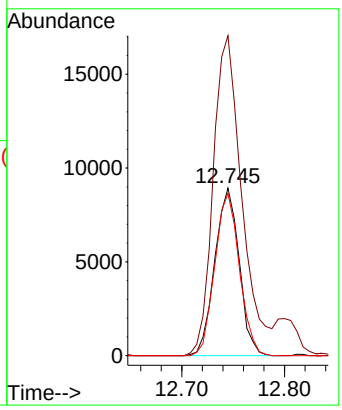




#77
Bromobenzene
Concen: 4.471 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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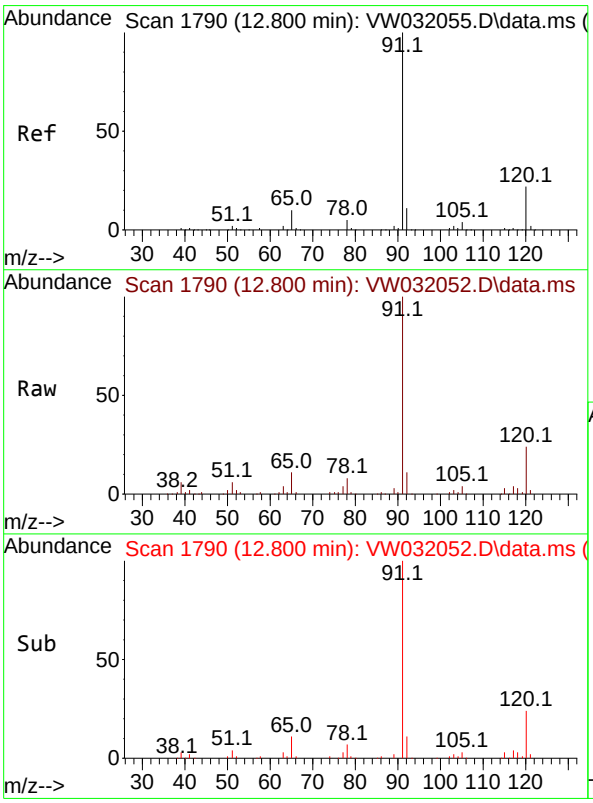
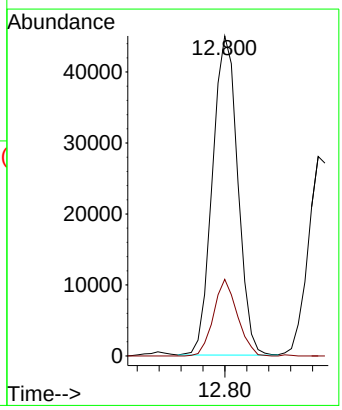
Supervised By :Semsettin Yesilyurt 08/12/2025

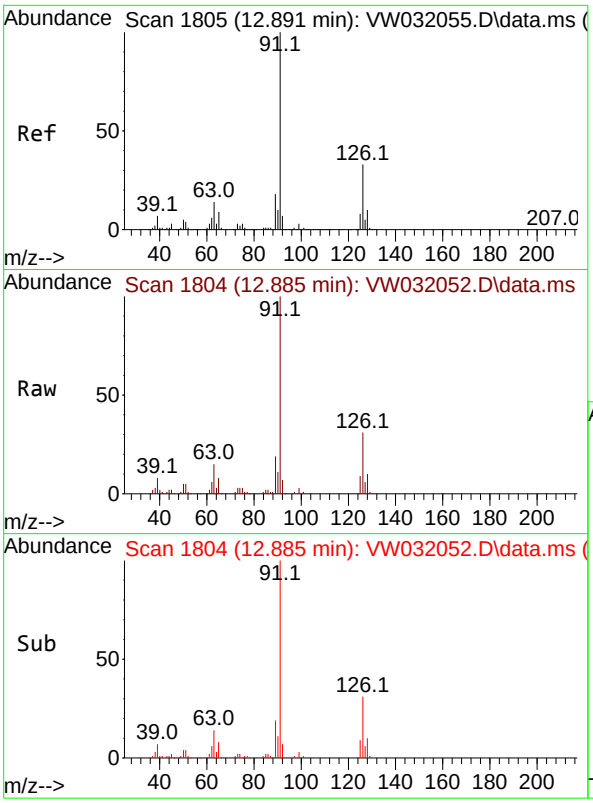


#78
n-propylbenzene
Concen: 4.257 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 72140

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3

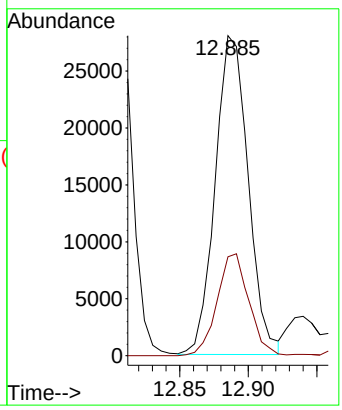




#79
2-Chlorotoluene
Concen: 4.483 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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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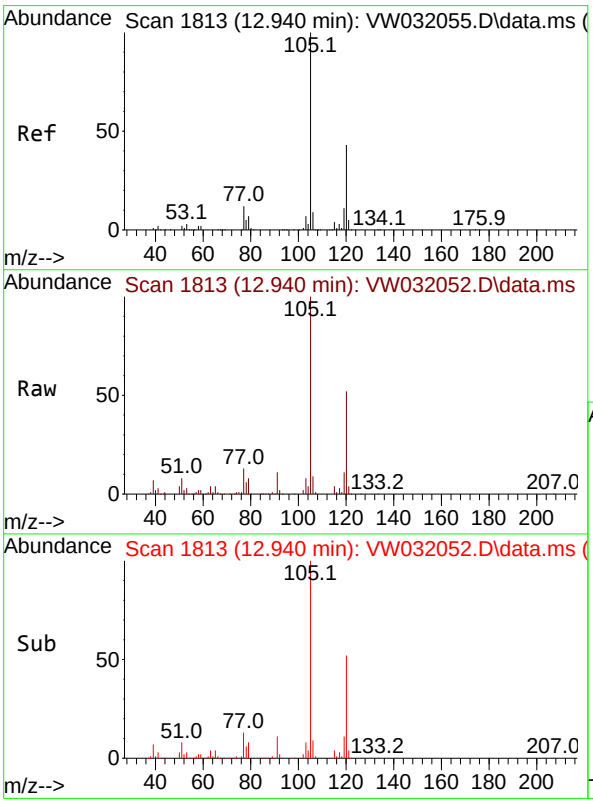
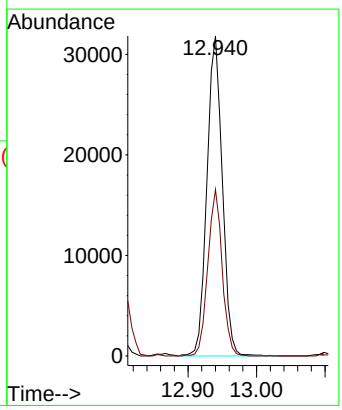
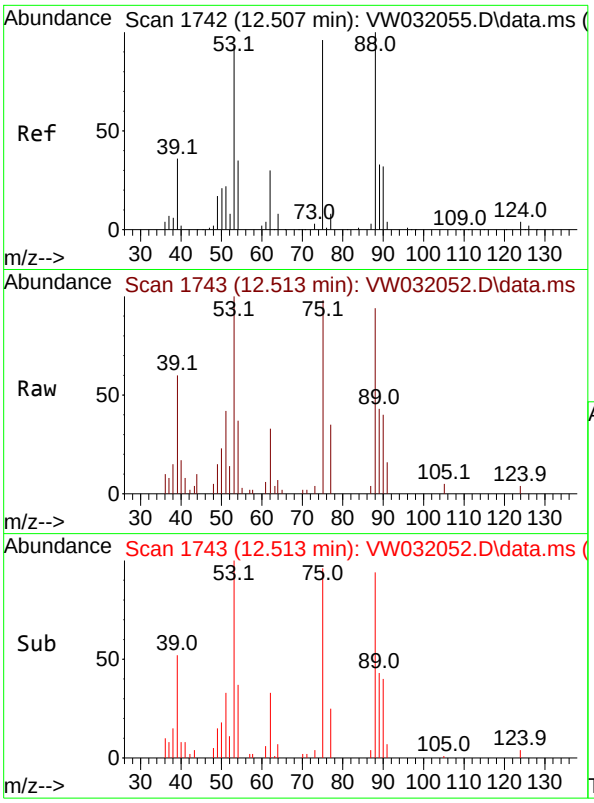


#80
1,3,5-Trimethylbenzene
Concen: 4.245 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49607

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.4	70.0

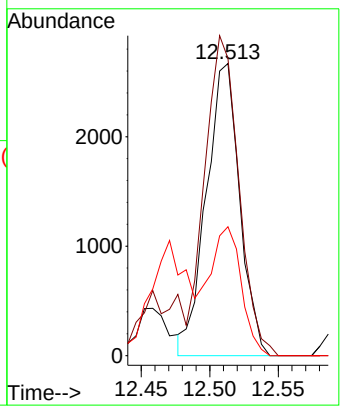




#81
trans-1,4-Dichloro-2-butene
Concen: 4.378 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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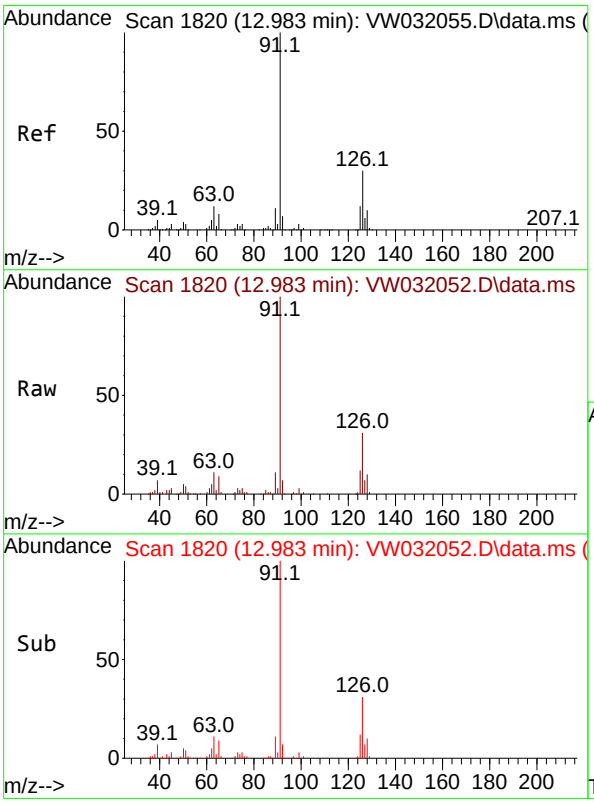
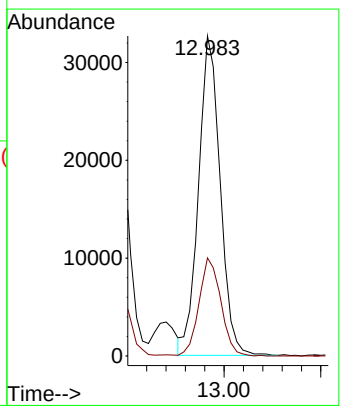
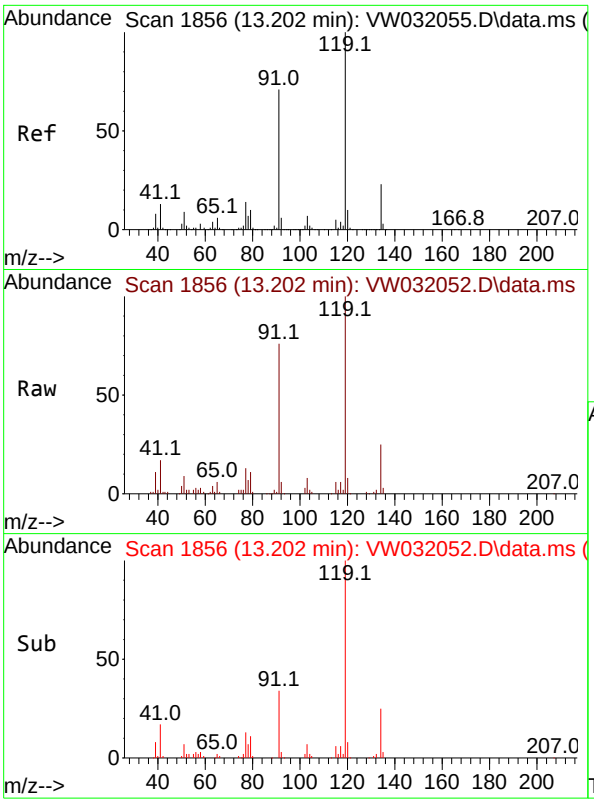


#82
4-Chlorotoluene
Concen: 4.570 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 50782

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.5	46.5

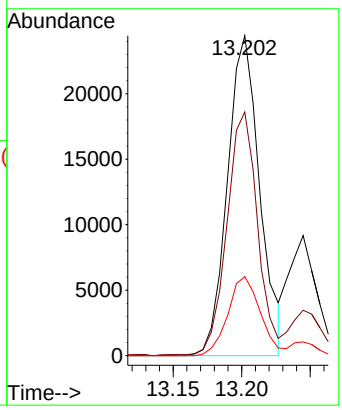




#83
tert-Butylbenzene
Concen: 4.124 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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ClientSampleId :
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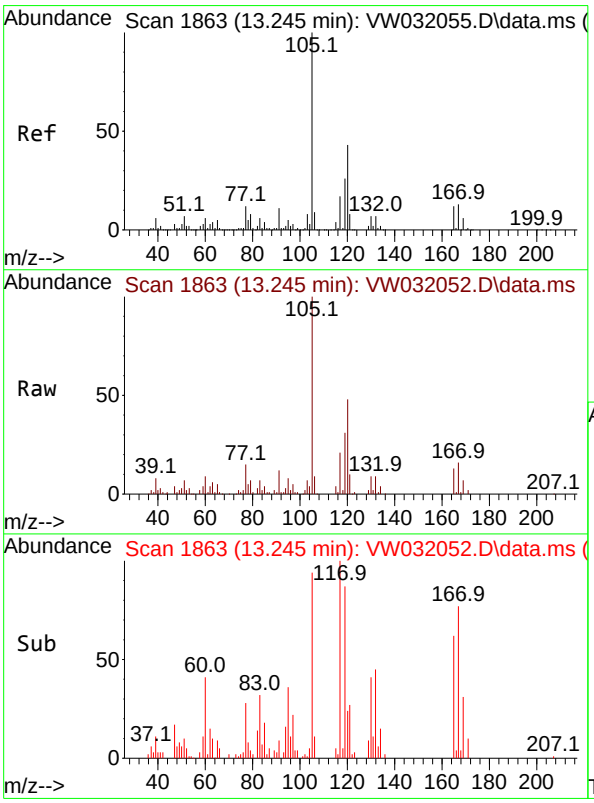
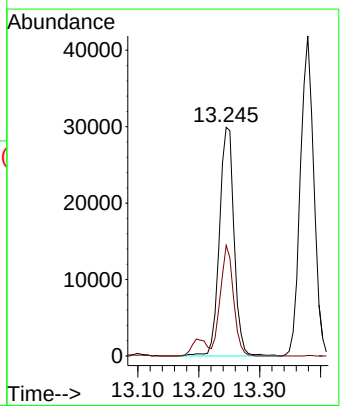
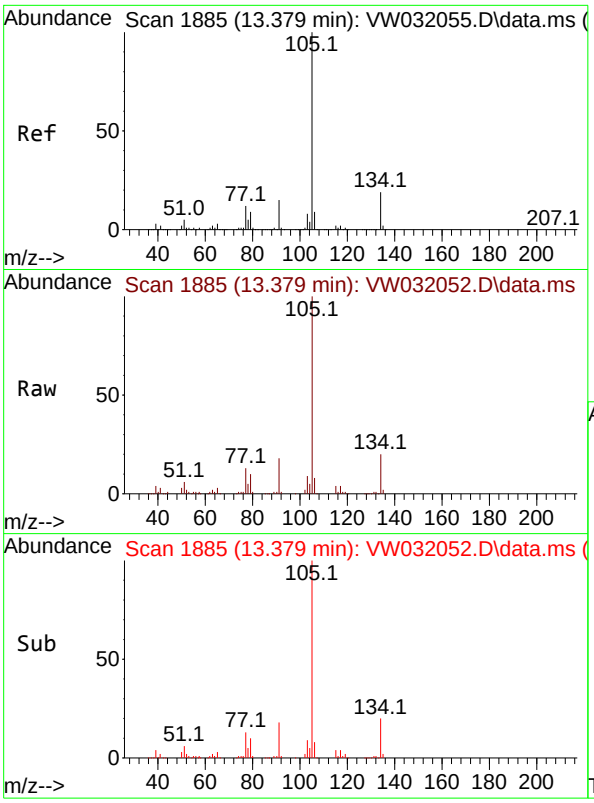


#84
1,2,4-Trimethylbenzene
Concen: 4.194 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49891

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.6	64.8

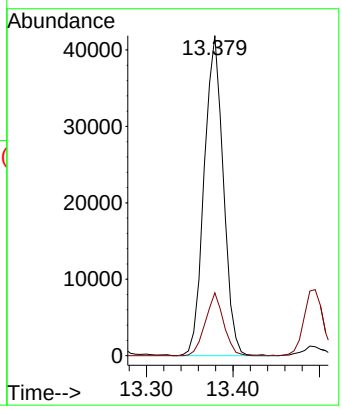




#85
sec-Butylbenzene
Concen: 4.382 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 6425

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7



Instrument :
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ClientSampleId :
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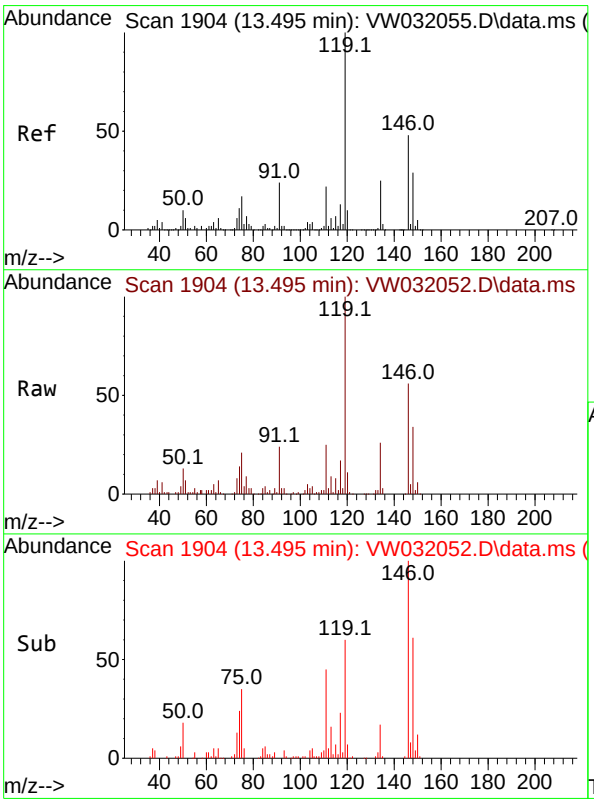
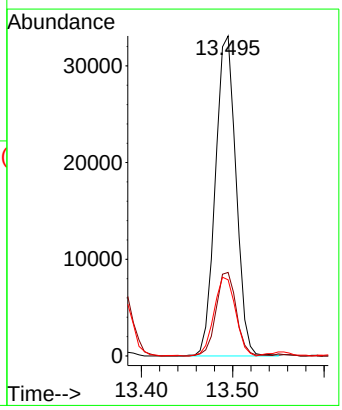
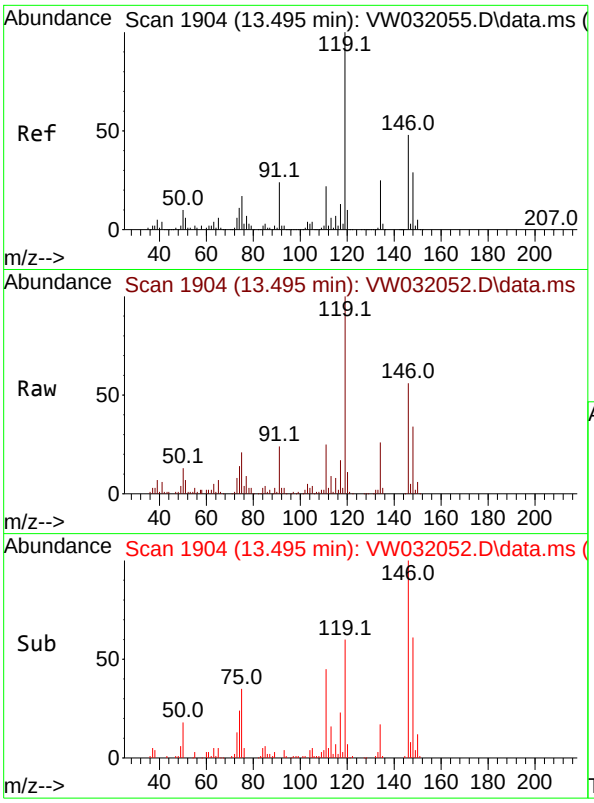


#86
p-Isopropyltoluene
Concen: 4.249 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

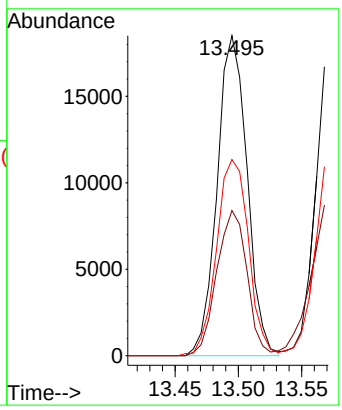




#87
1,3-Dichlorobenzene
Concen: 4.654 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

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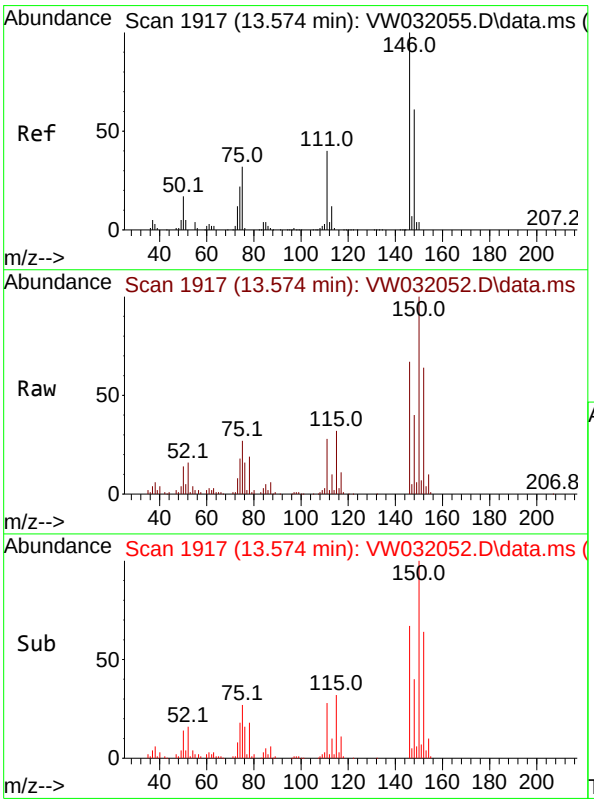
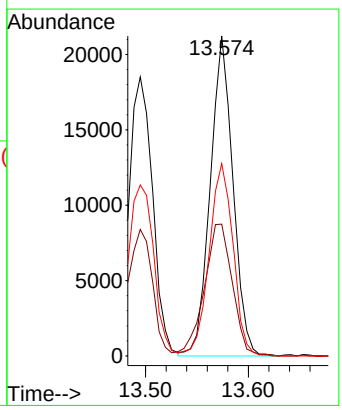
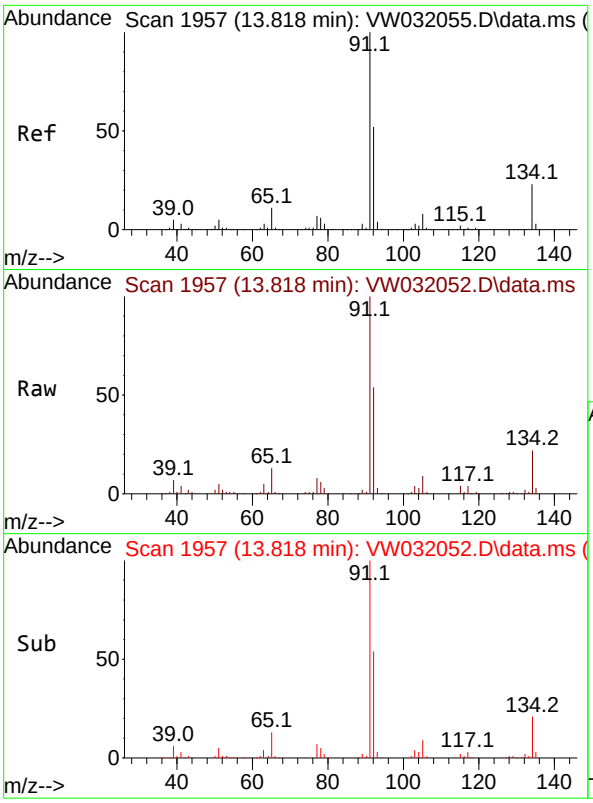


#88
1,4-Dichlorobenzene
Concen: 4.925 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

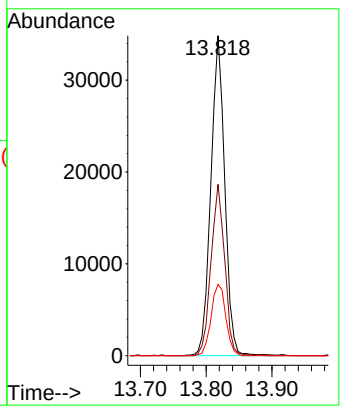




#89
n-Butylbenzene
Concen: 4.323 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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ClientSampleId :
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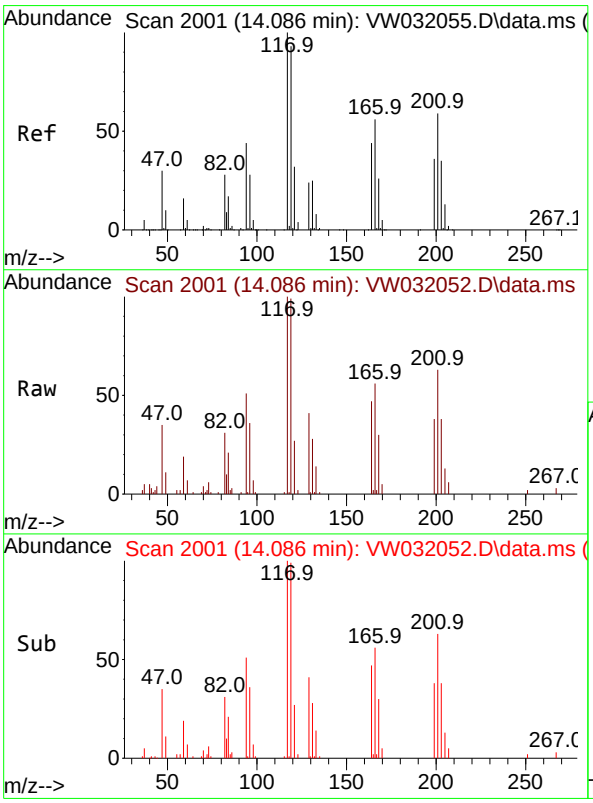
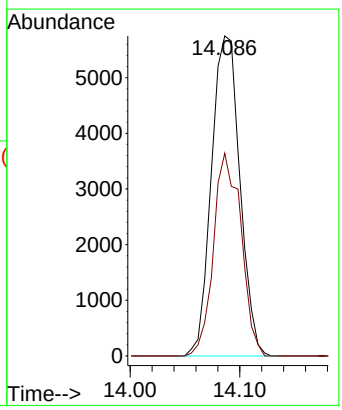
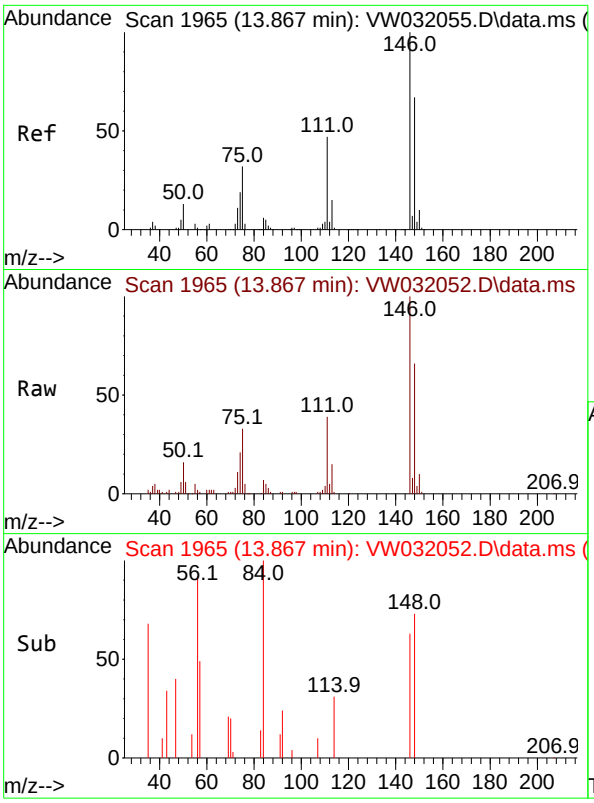


#90
Hexachloroethane
Concen: 4.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 10372

Ion	Ratio	Lower	Upper
117	100		
201	61.2	30.9	92.5

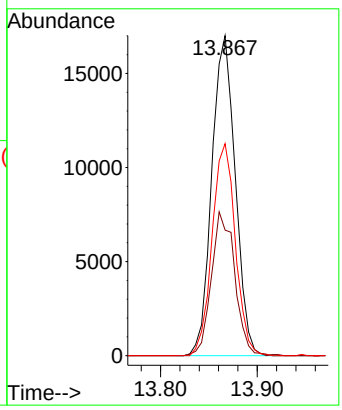




#91
1,2-Dichlorobenzene
Concen: 4.836 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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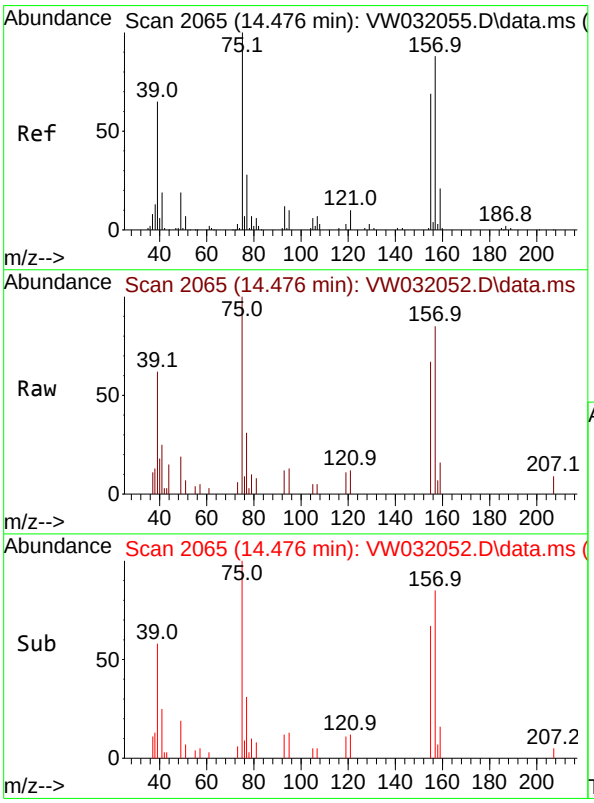
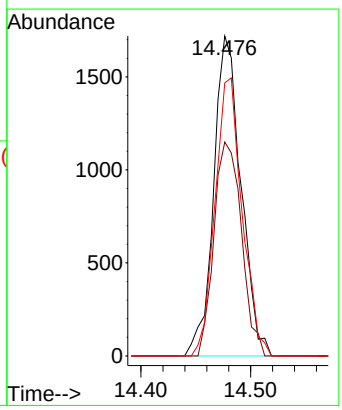
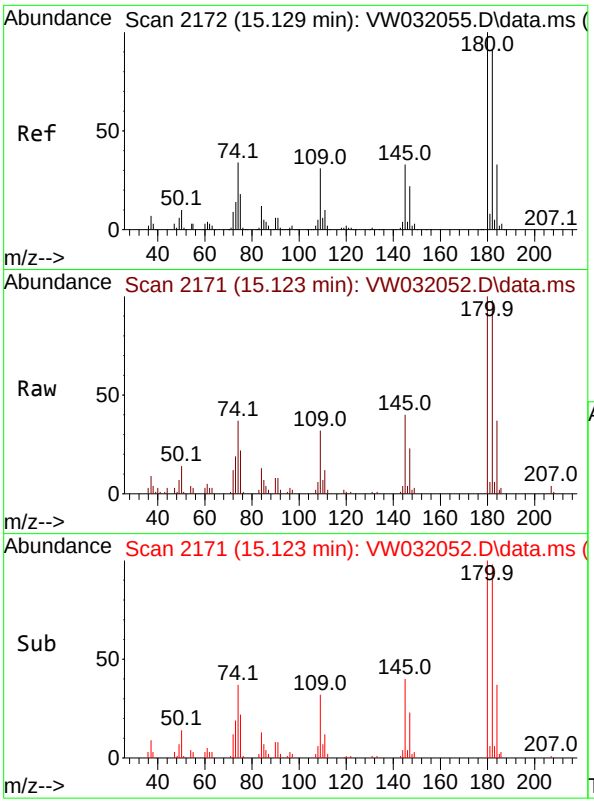


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.123 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

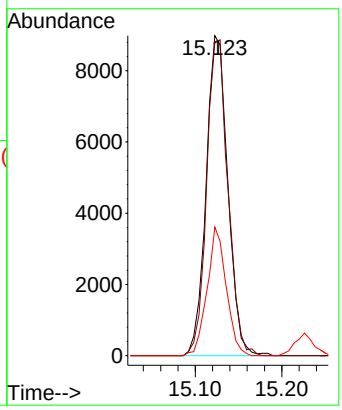




#93
1,2,4-Trichlorobenzene
Concen: 4.414 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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ClientSampleId :
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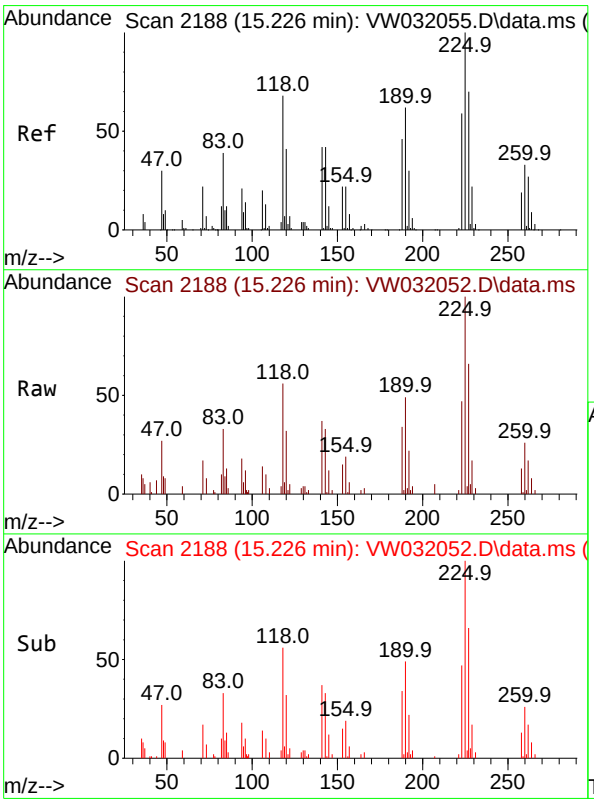
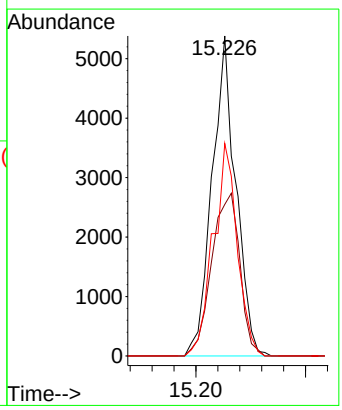
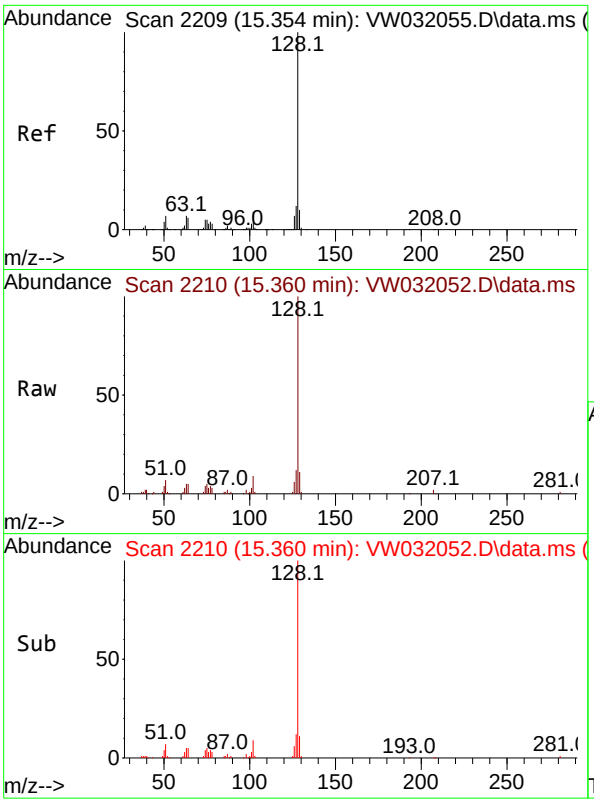


#94
Hexachlorobutadiene
Concen: 5.118 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

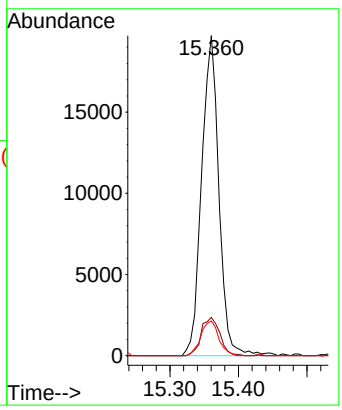




#95
Naphthalene
Concen: 3.991 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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 :
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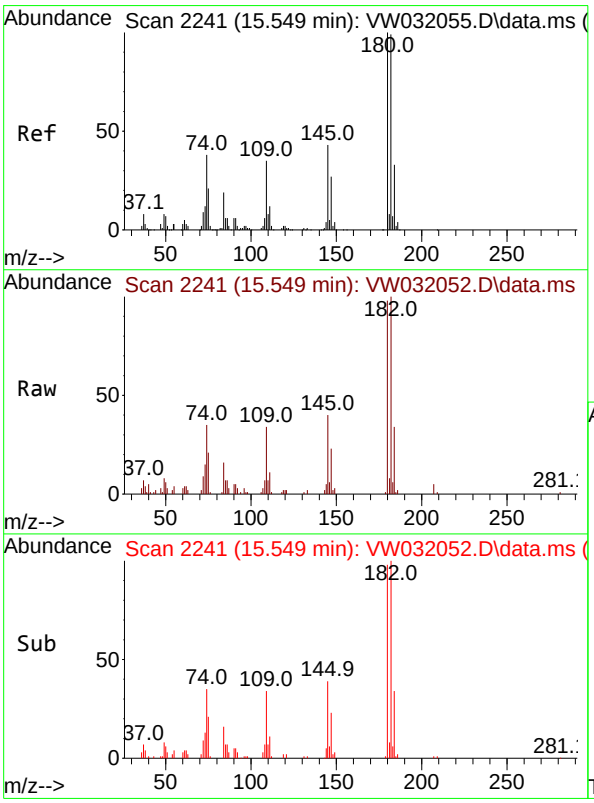
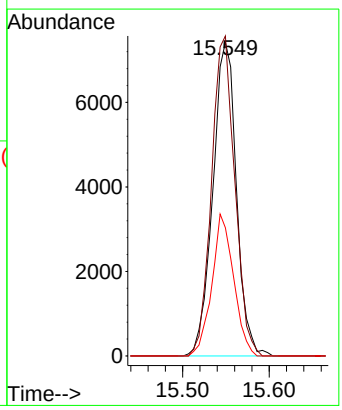
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#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



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

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
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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 :
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ClientSampleId :
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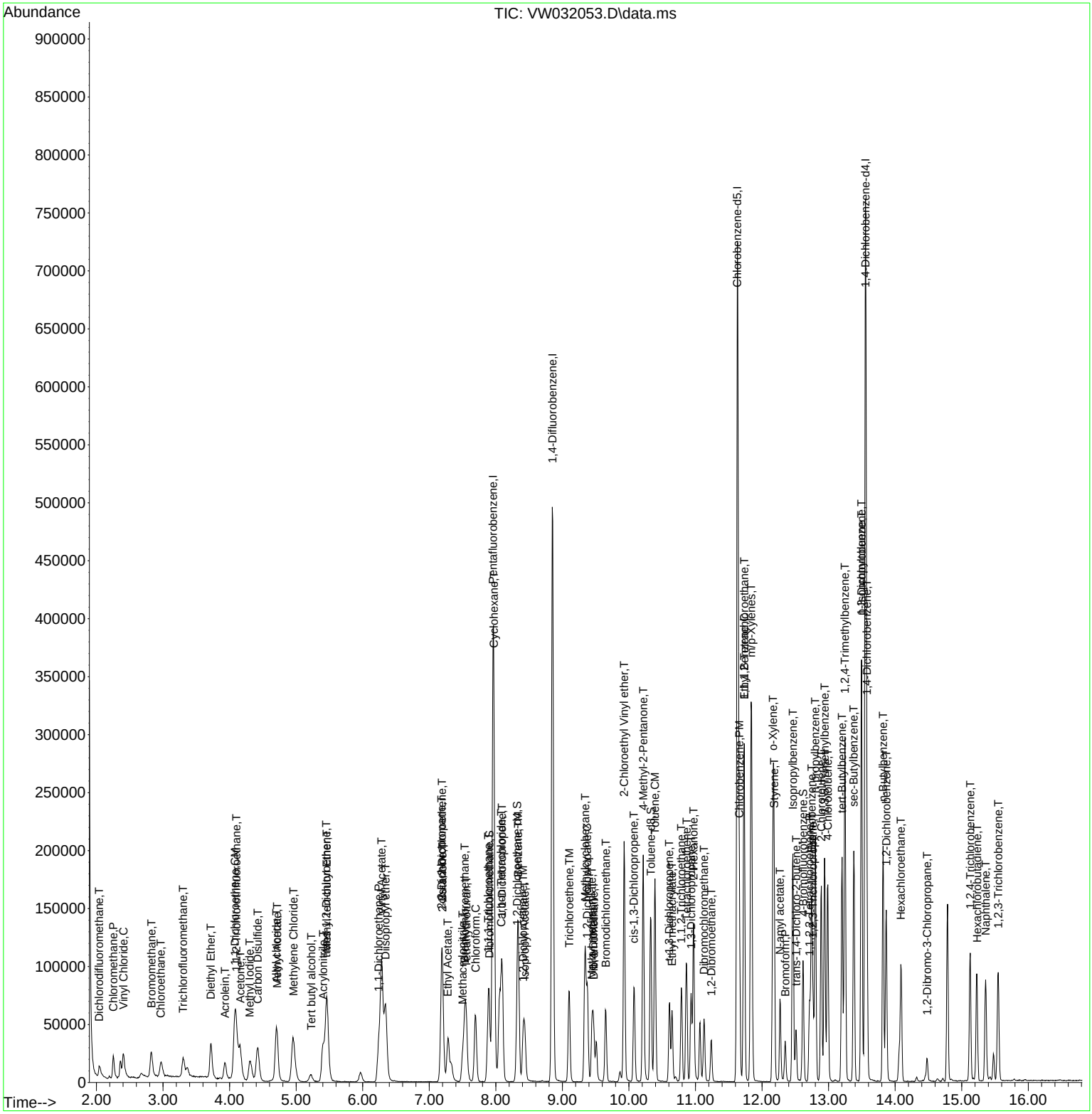
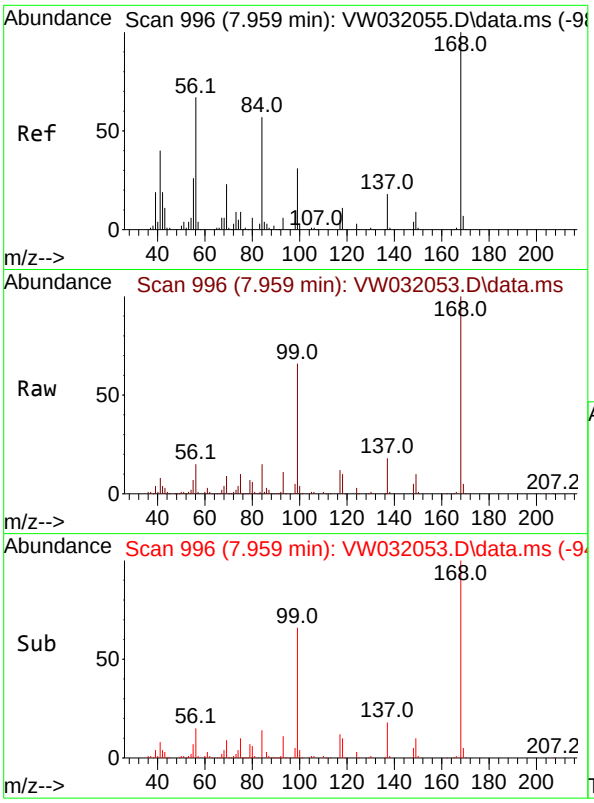
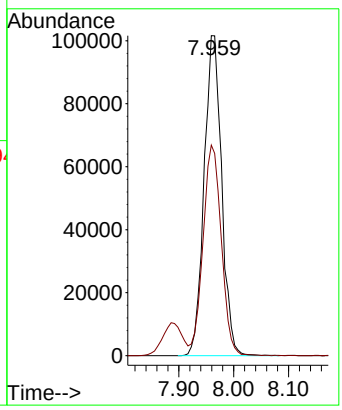




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

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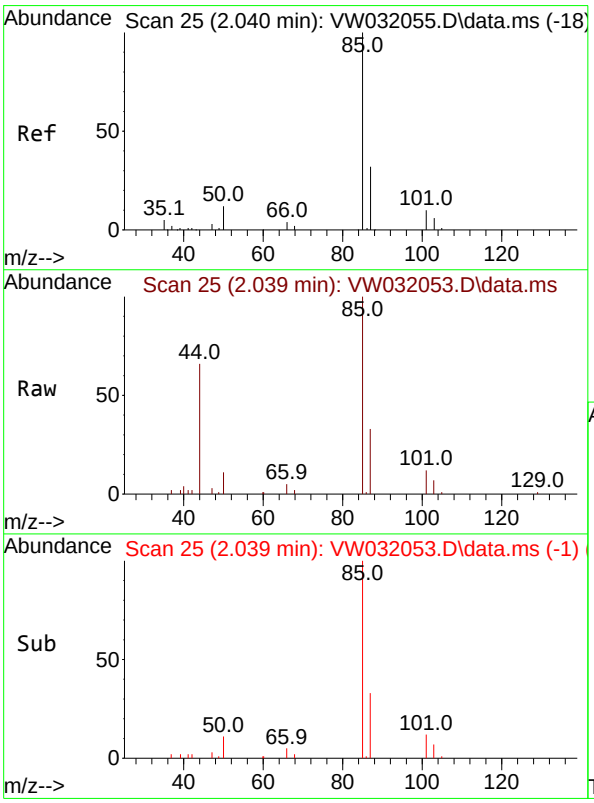
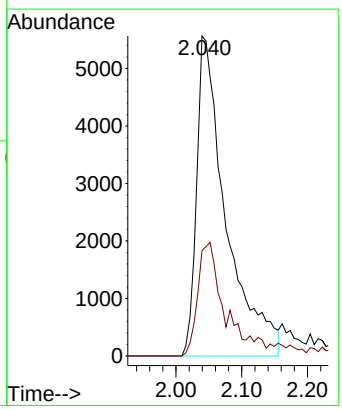
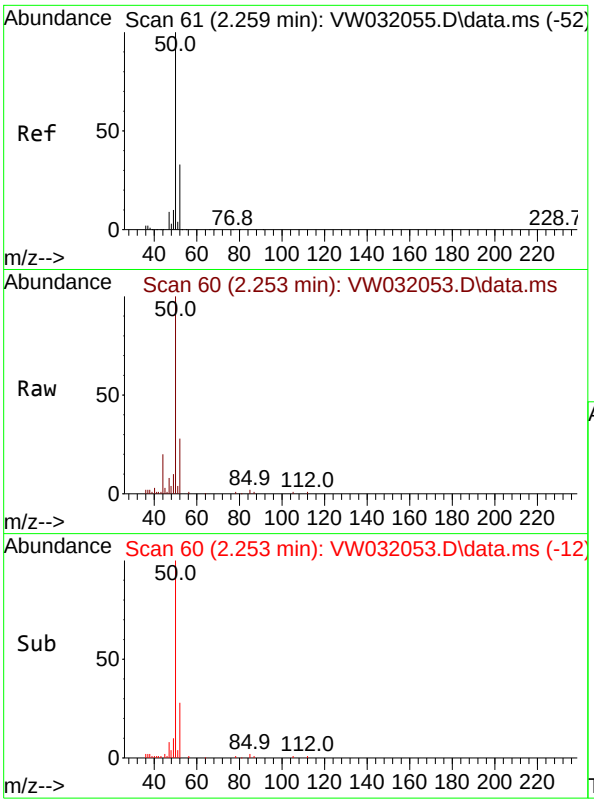


#2
Dichlorodifluoromethane
Concen: 10.714 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 85 Resp: 17258

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.2	48.6

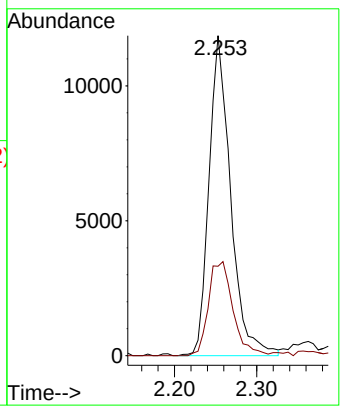




#3
Chloromethane
Concen: 9.998 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 50 Resp: 2169

Ion	Ratio	Lower	Upper
50	100		
52	27.9	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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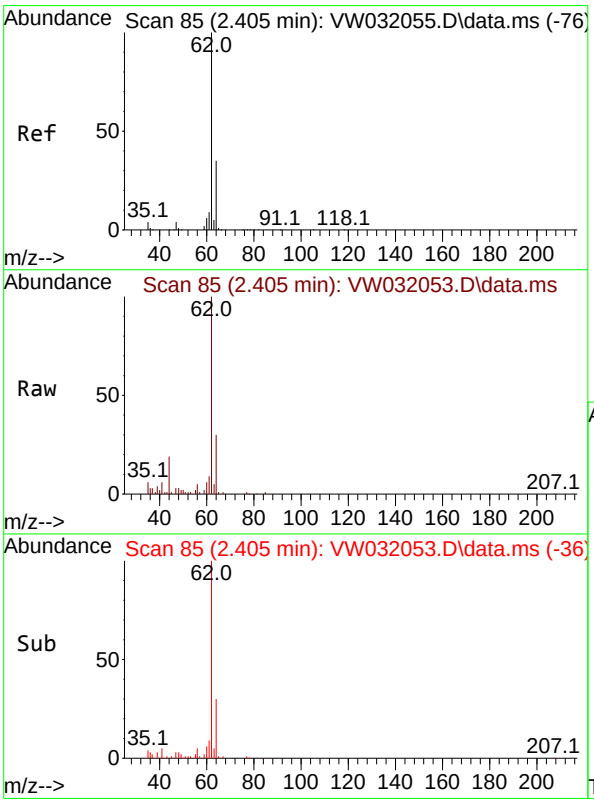
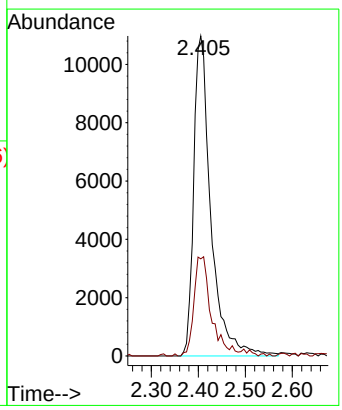
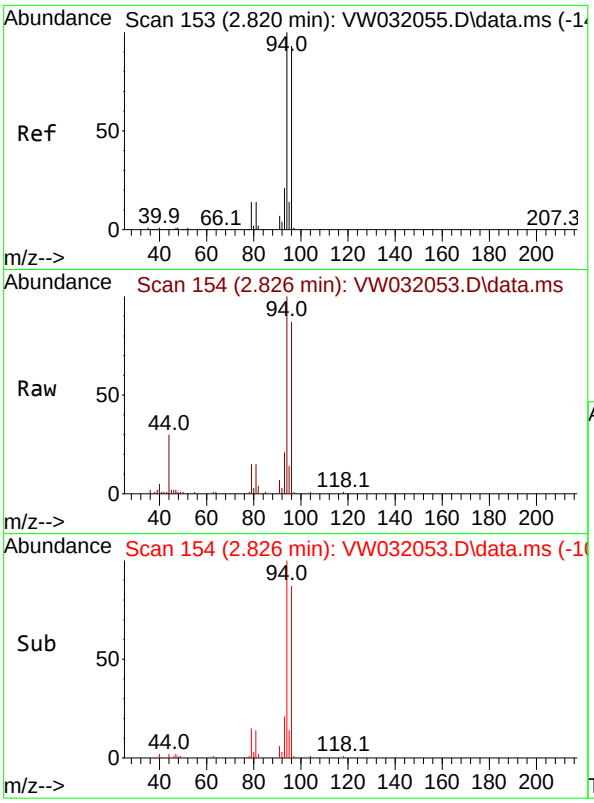


#4
Vinyl Chloride
Concen: 10.660 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 27978

Ion	Ratio	Lower	Upper
62	100		
64	30.3	27.8	41.6

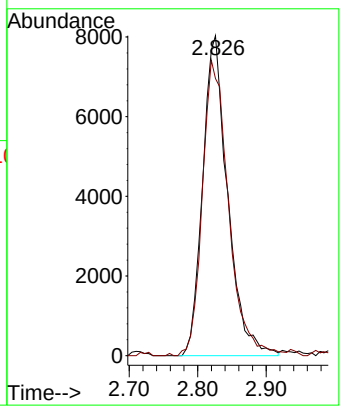




#5
Bromomethane
Concen: 10.332 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

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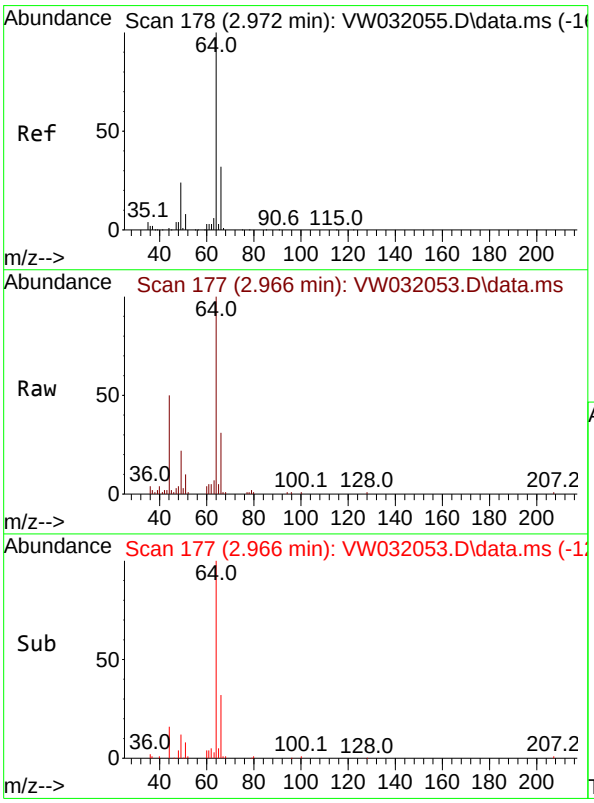
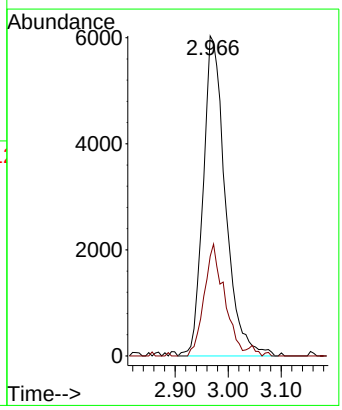
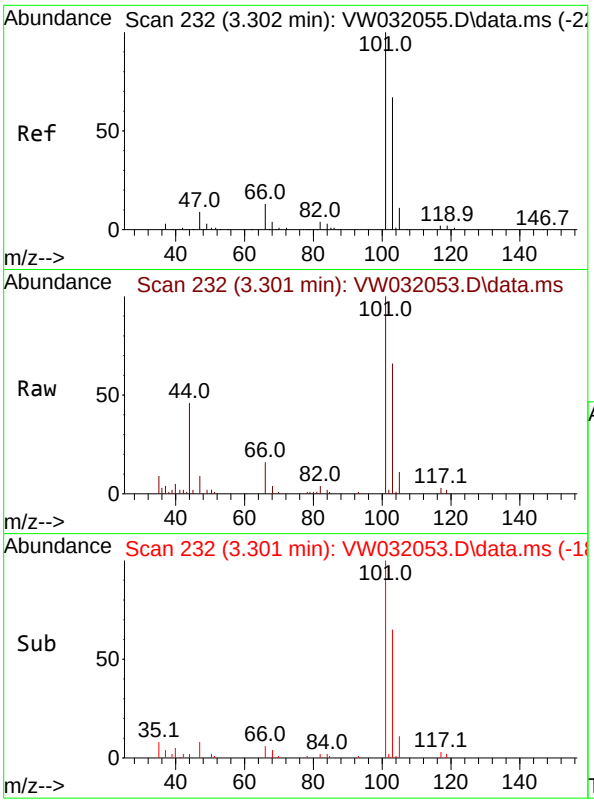


#6
Chloroethane
Concen: 10.081 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 64 Resp: 17509

Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.0	39.0

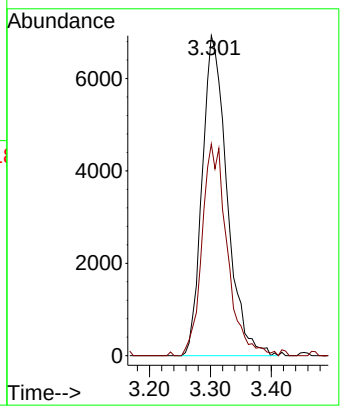




#7
Trichlorofluoromethane
Concen: 9.333 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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
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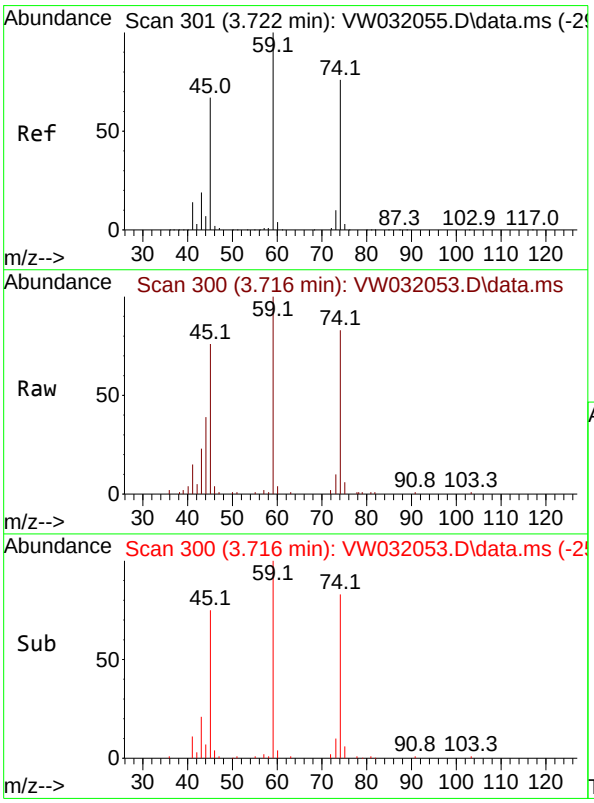
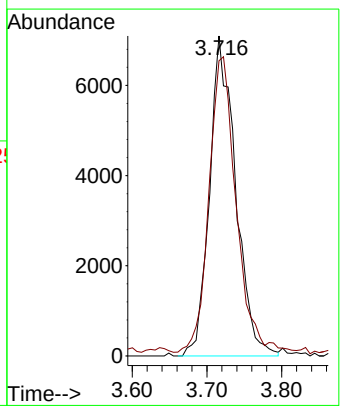
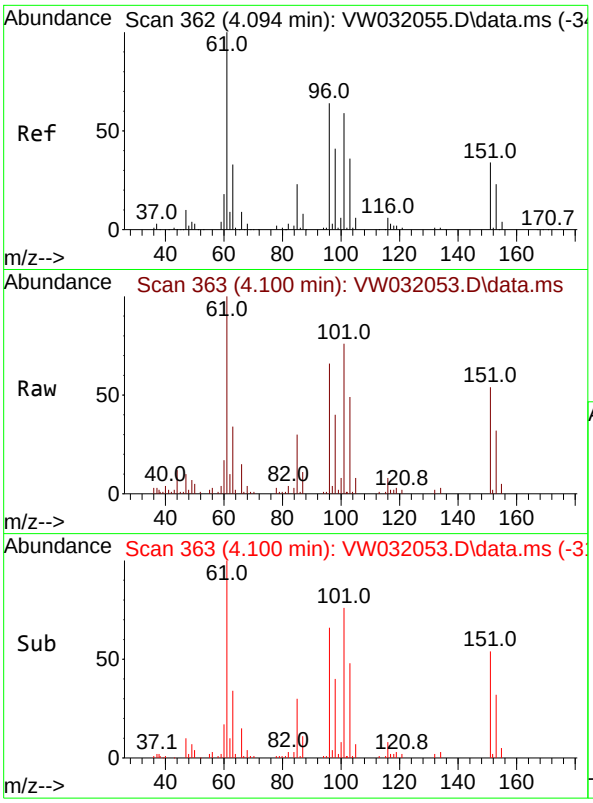


#8
Diethyl Ether
Concen: 10.000 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 74 Resp: 17227

Ion	Ratio	Lower	Upper
74	100		
45	95.9	45.4	136.2

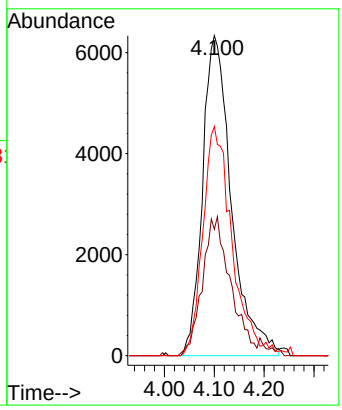




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.276 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

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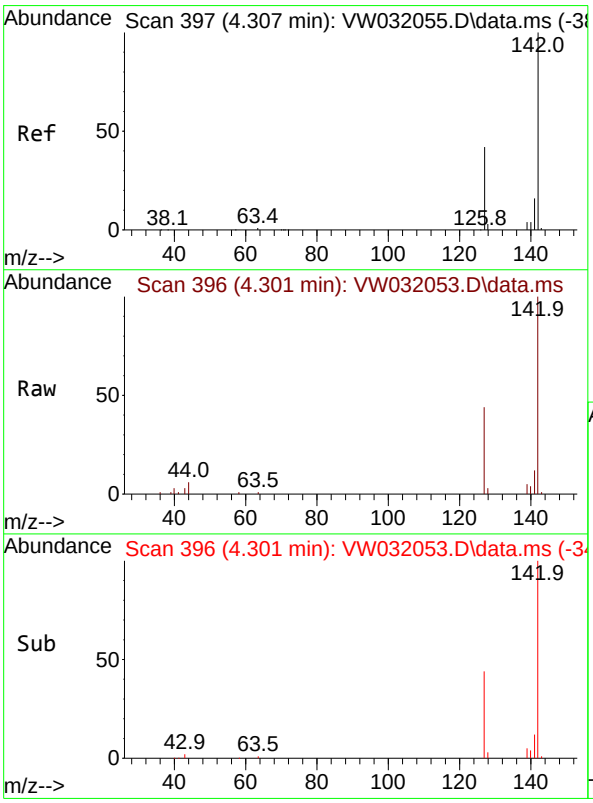
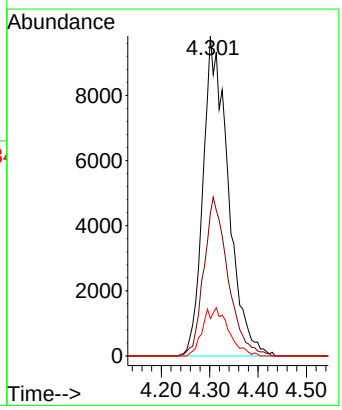
Supervised By :Semsettin Yesilyurt 08/12/2025

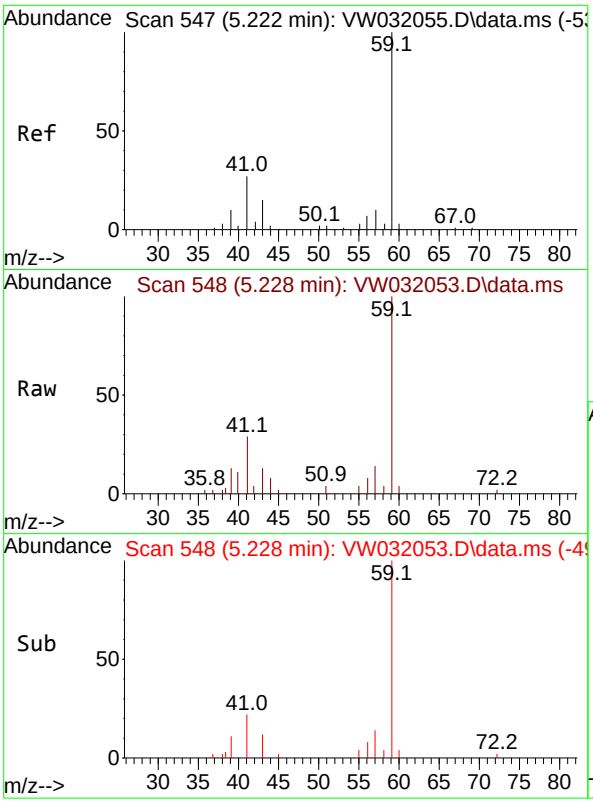


#10
Methyl Iodide
Concen: 10.098 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

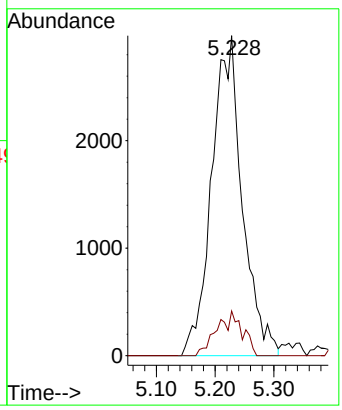




#11
Tert butyl alcohol
Concen: 50.985 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 59 Resp: 1075

Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.7	13.1



Instrument :
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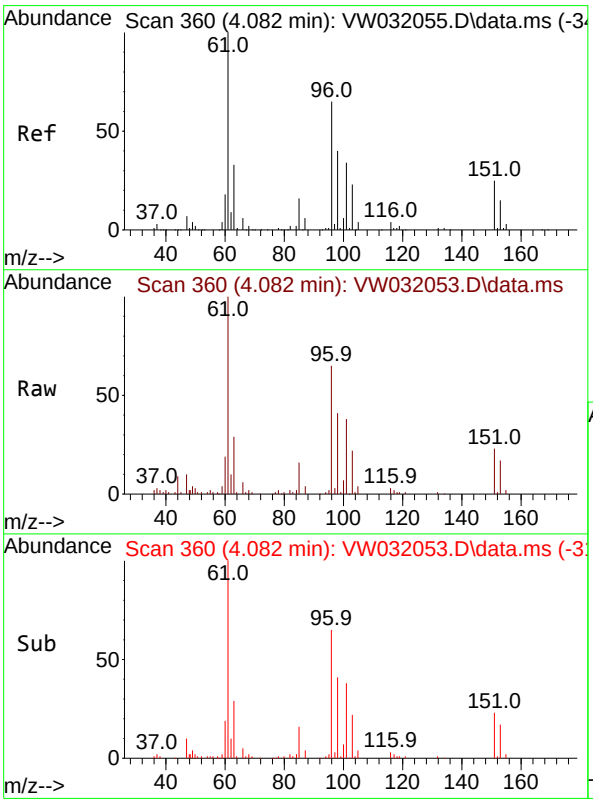
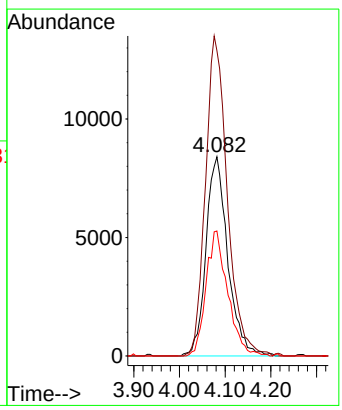
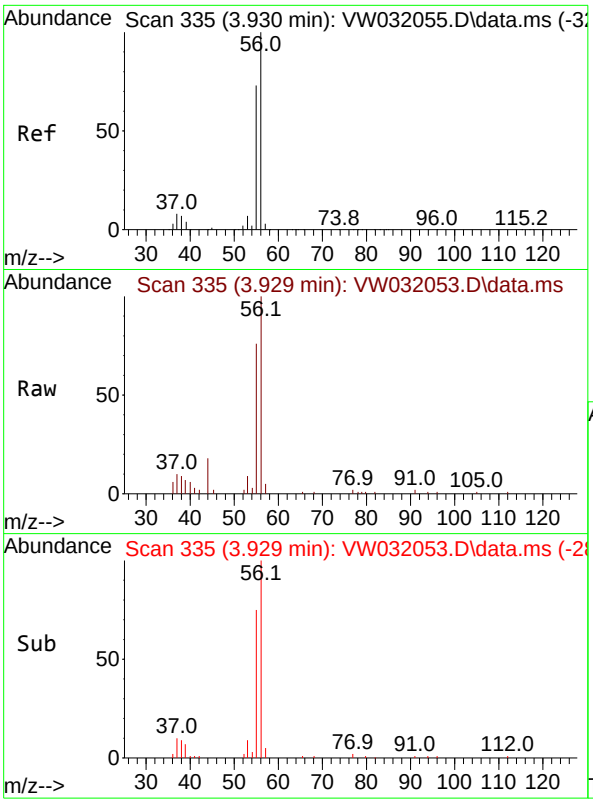


#12
1,1-Dichloroethene
Concen: 10.231 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

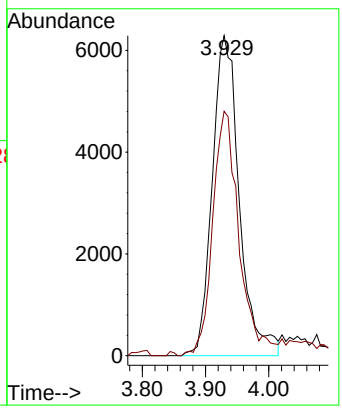




#13
Acrolein
Concen: 55.493 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 56 Resp: 1865

Ion	Ratio	Lower	Upper
56	100		
55	74.5	55.4	83.2



Instrument :
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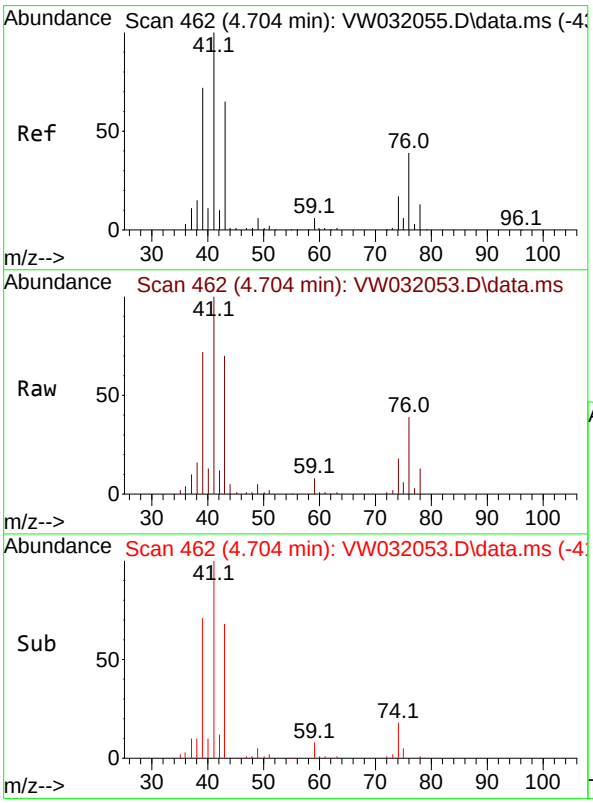
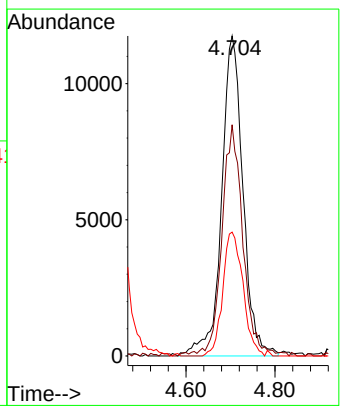
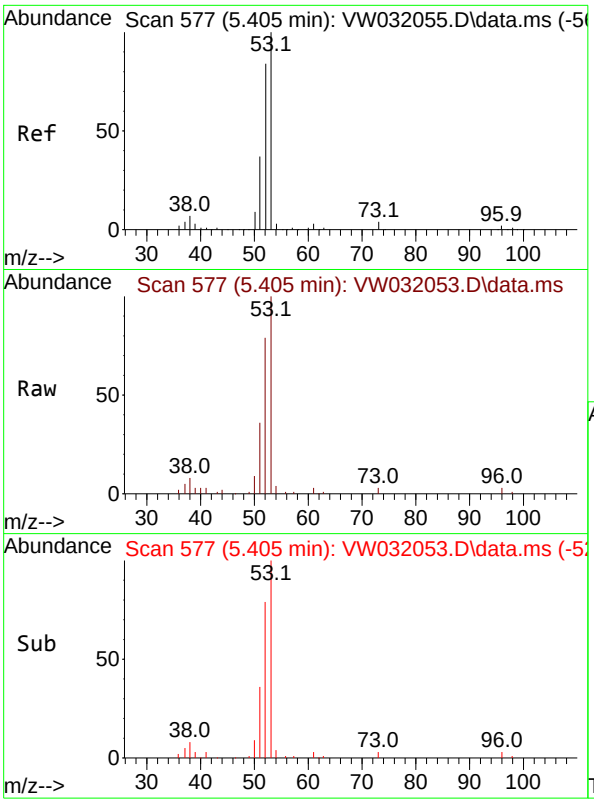


#14
Allyl chloride
Concen: 9.839 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

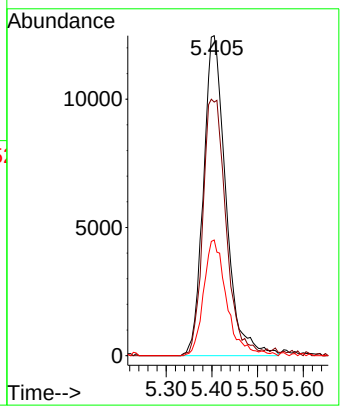




#15
Acrylonitrile
Concen: 51.842 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



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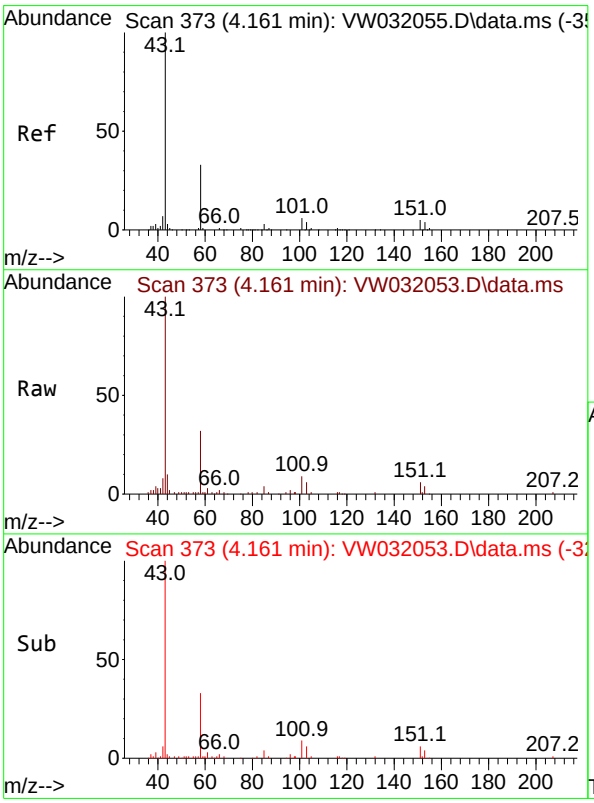
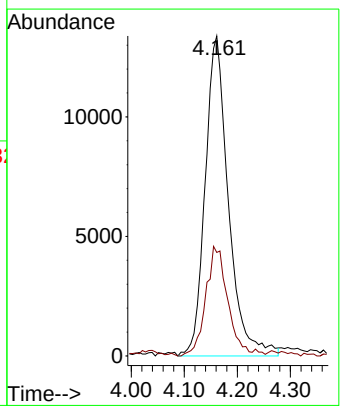
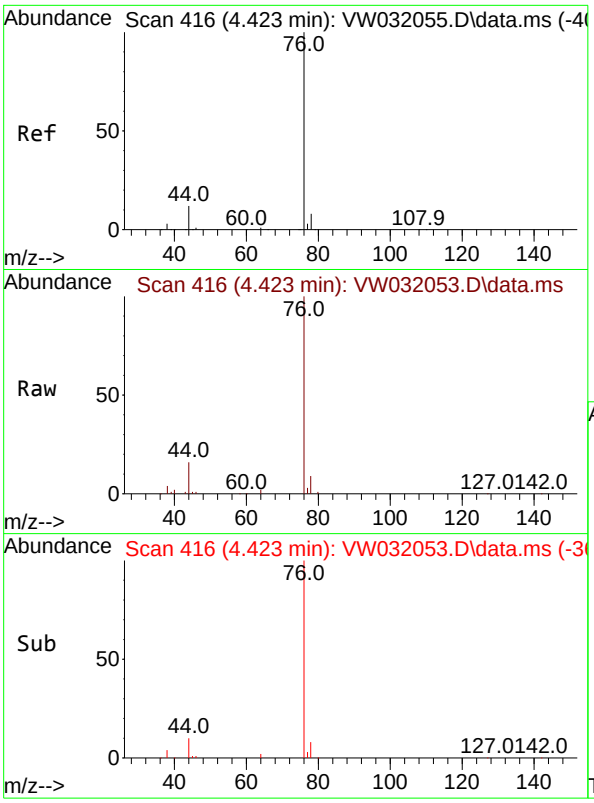


#16
Acetone
Concen: 54.122 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 40816

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.6	39.8

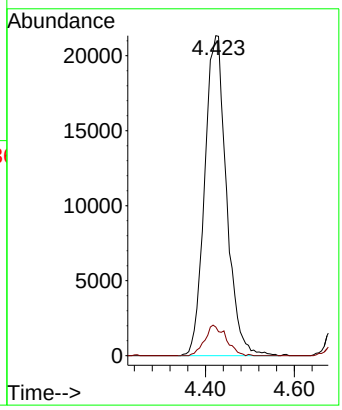




#17
Carbon Disulfide
Concen: 9.931 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 76 Resp: 7280

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.4	9.6



Instrument :
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ClientSampleId :
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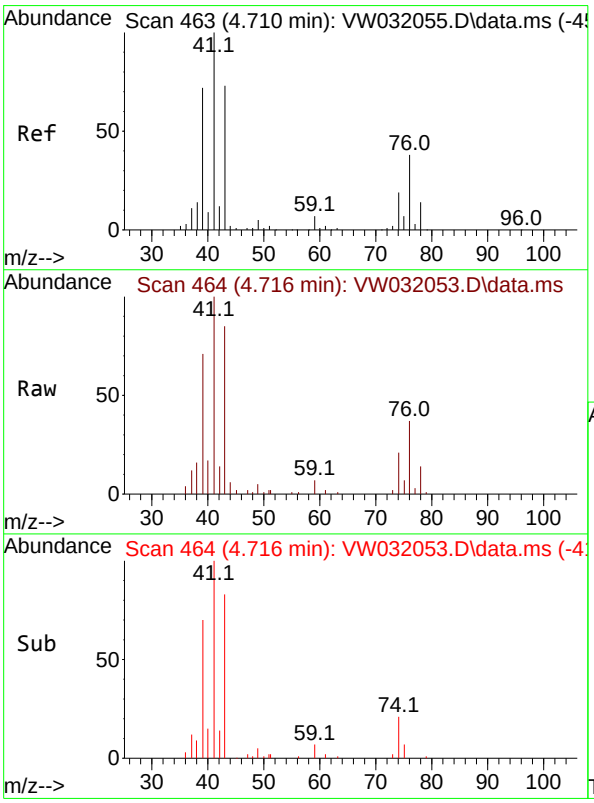
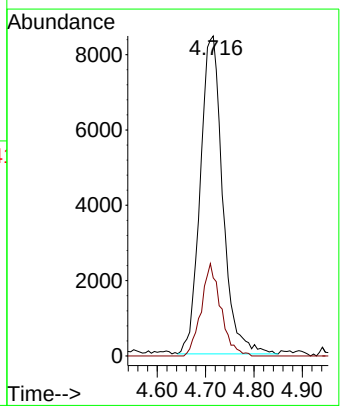
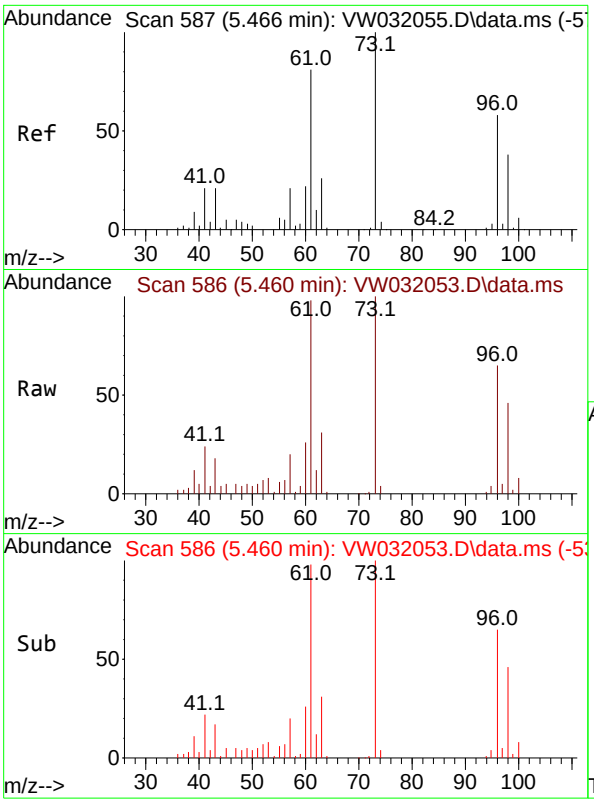


#18
Methyl Acetate
Concen: 11.394 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 27191

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.6	31.0

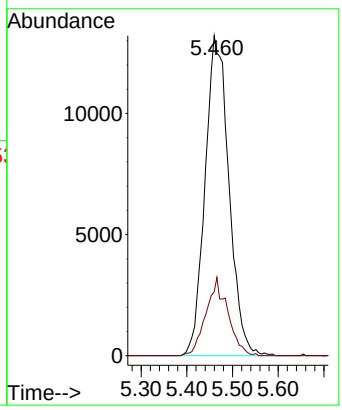




#19
Methyl tert-butyl Ether
Concen: 9.947 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 73 Resp: 4787

Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

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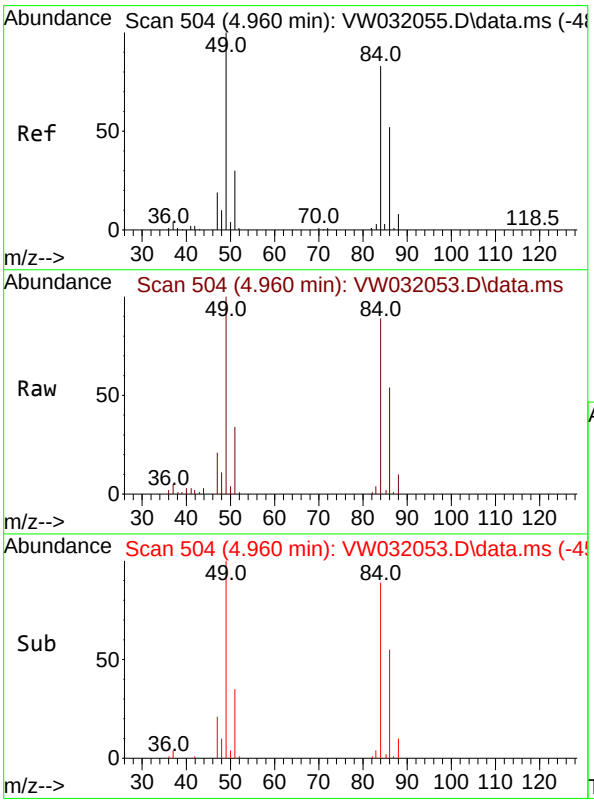
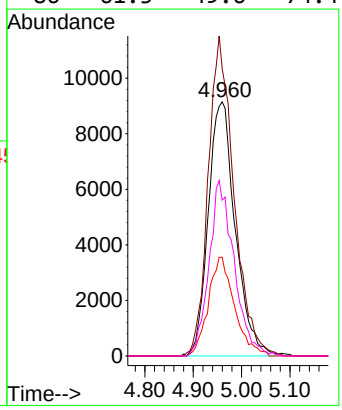
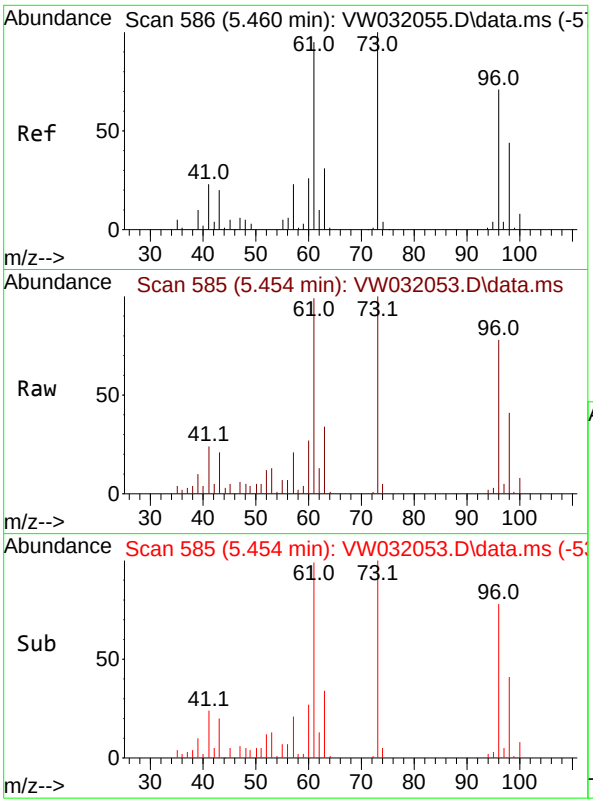


#20
Methylene Chloride
Concen: 10.170 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

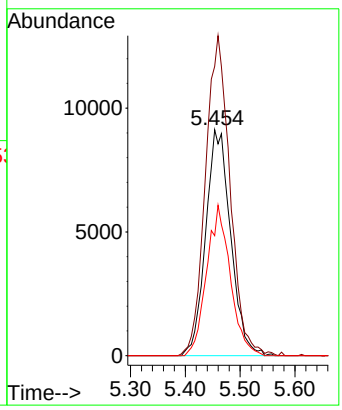




#21
trans-1,2-Dichloroethene
Concen: 9.962 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
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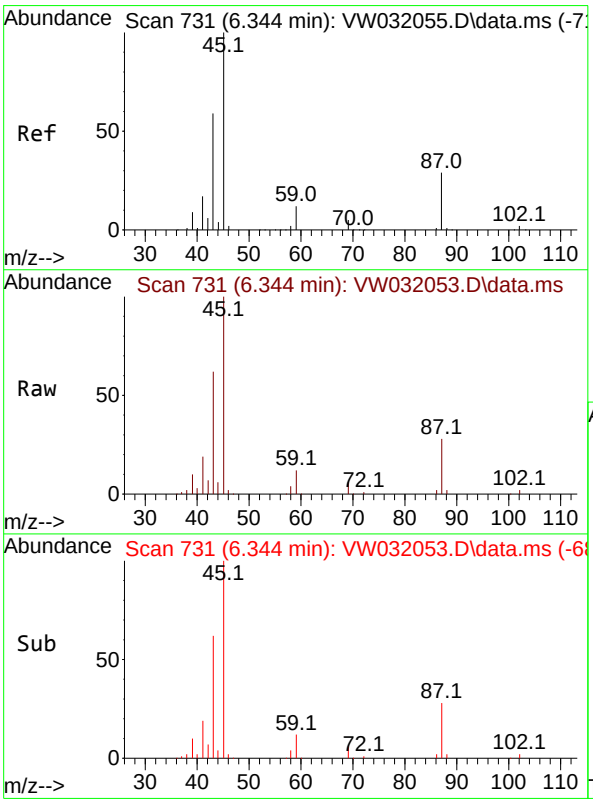
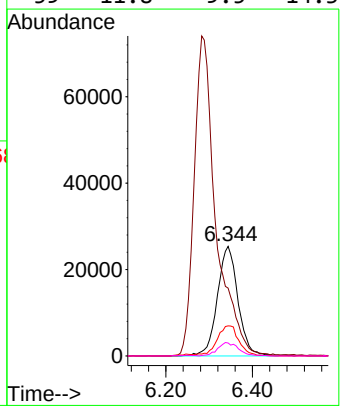
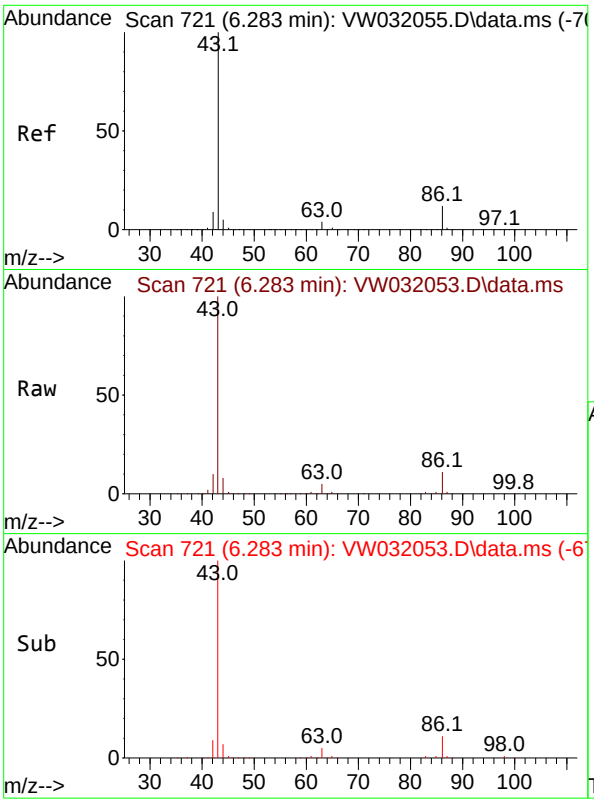


#22
Diisopropyl ether
Concen: 10.029 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
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ClientSampleId :
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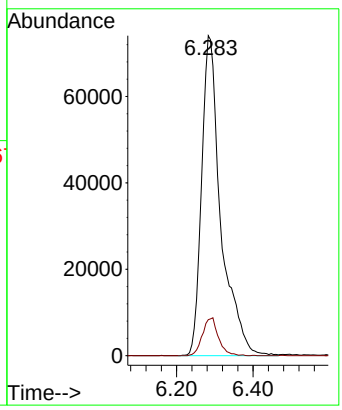
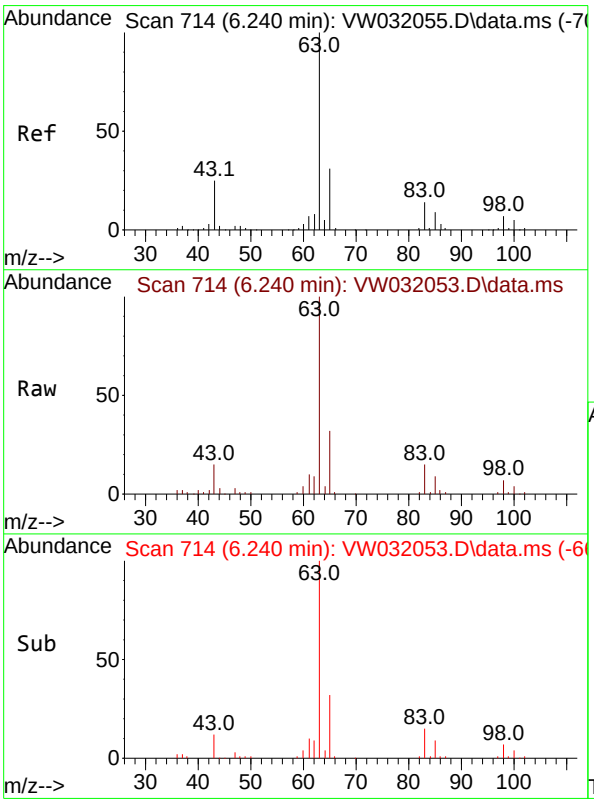
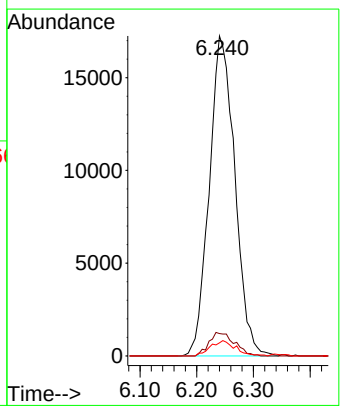


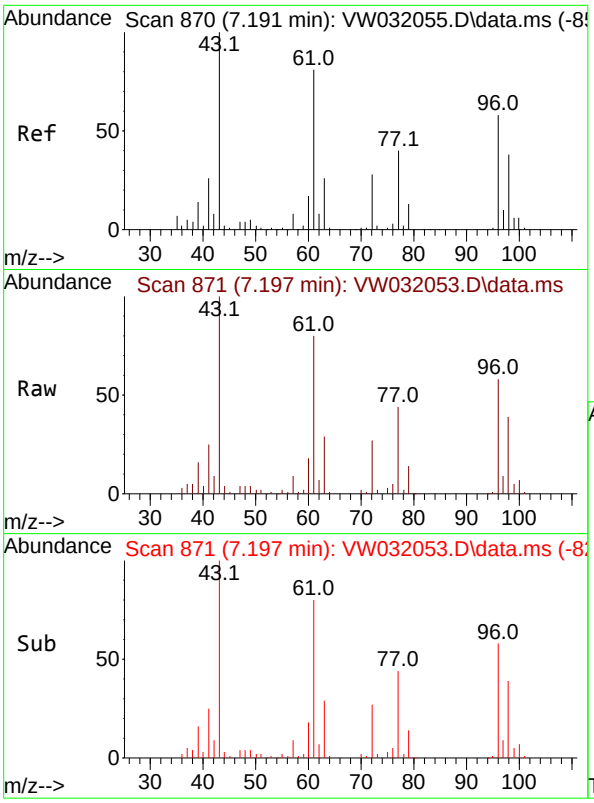


#24
1,1-Dichloroethane
Concen: 10.095 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

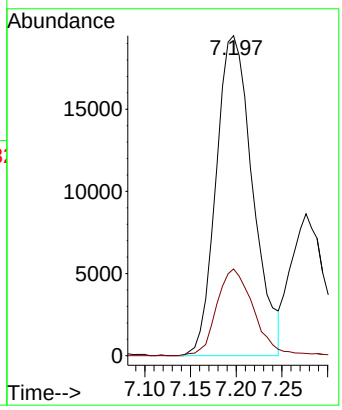




#25
2-Butanone
Concen: 50.685 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 5432

Ion	Ratio	Lower	Upper
43	100		
72	27.1	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
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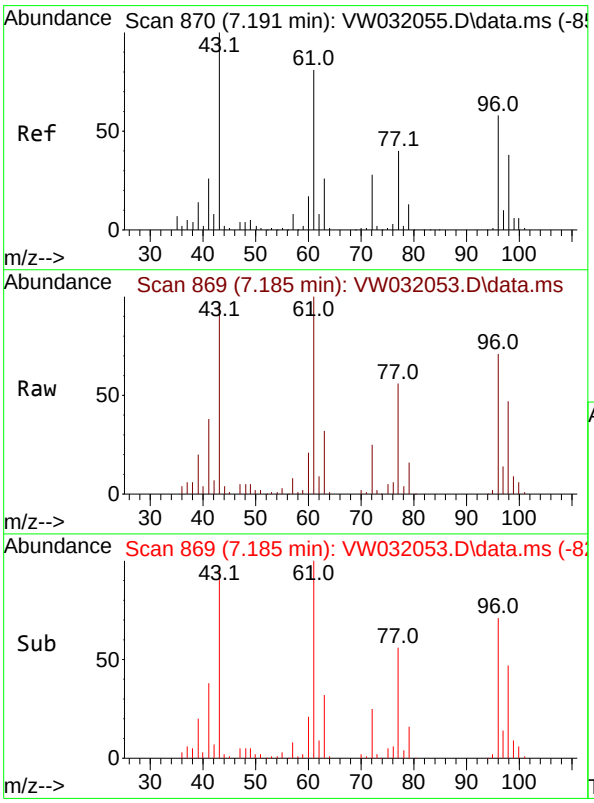
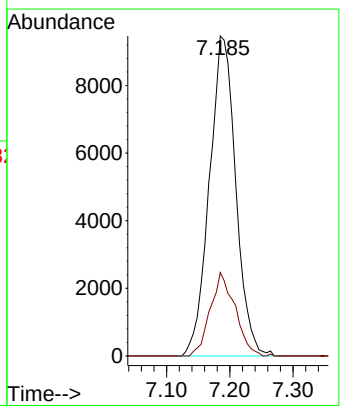
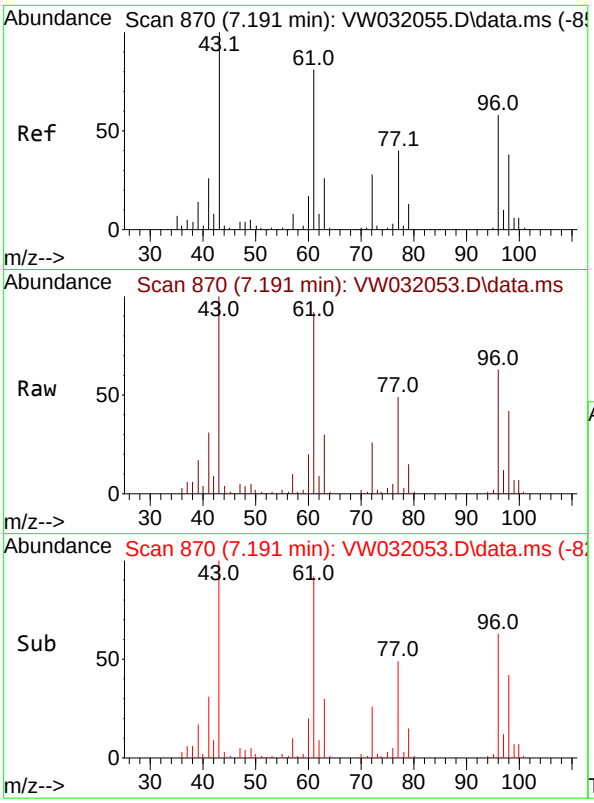


#26
2,2-Dichloropropane
Concen: 10.224 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 77 Resp: 27463

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9

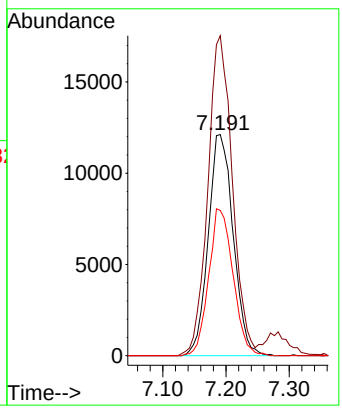




#27
cis-1,2-Dichloroethene
Concen: 9.791 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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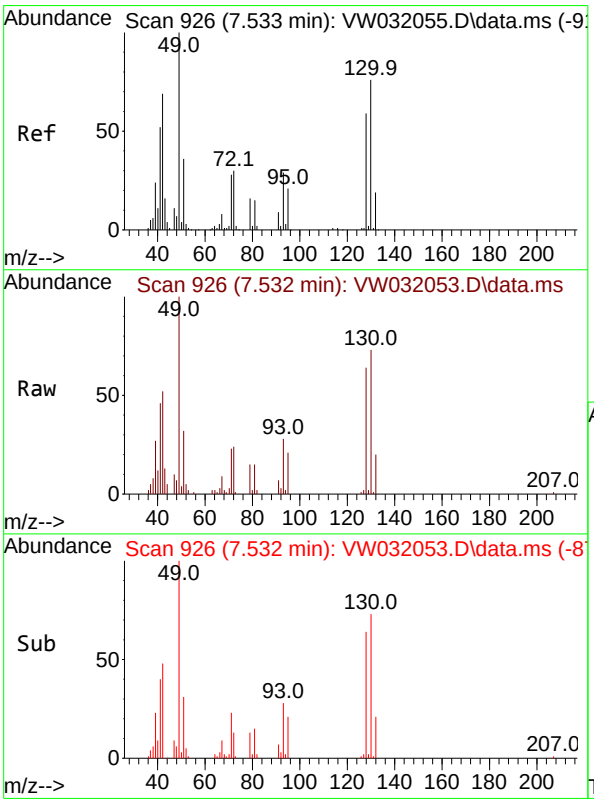
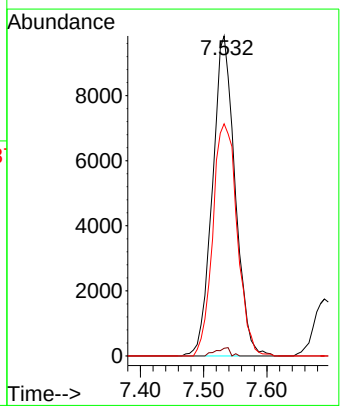
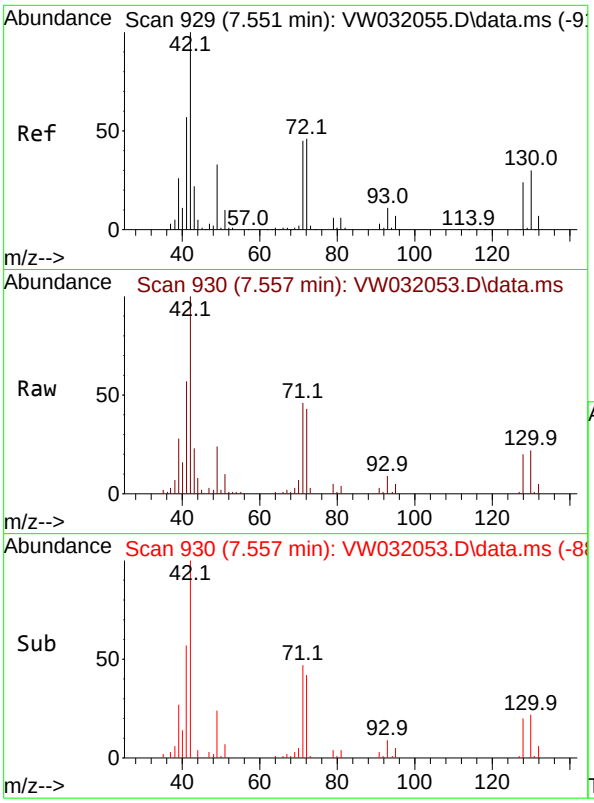


#28
Bromochloromethane
Concen: 10.019 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

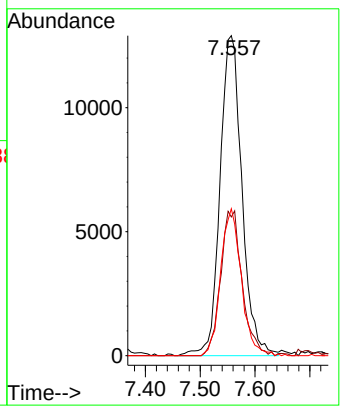




#29
Tetrahydrofuran
Concen: 50.800 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



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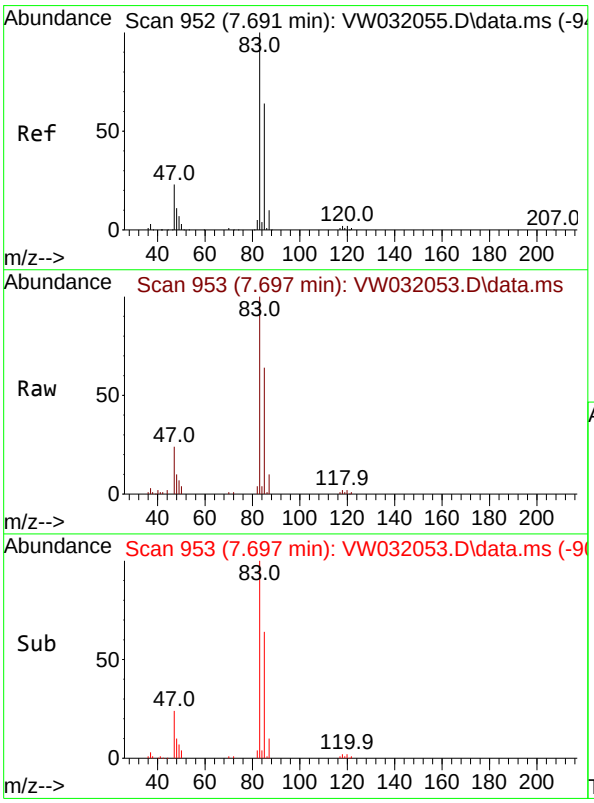
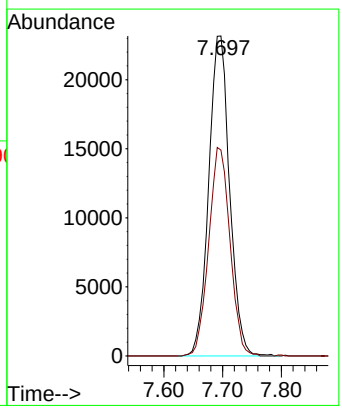
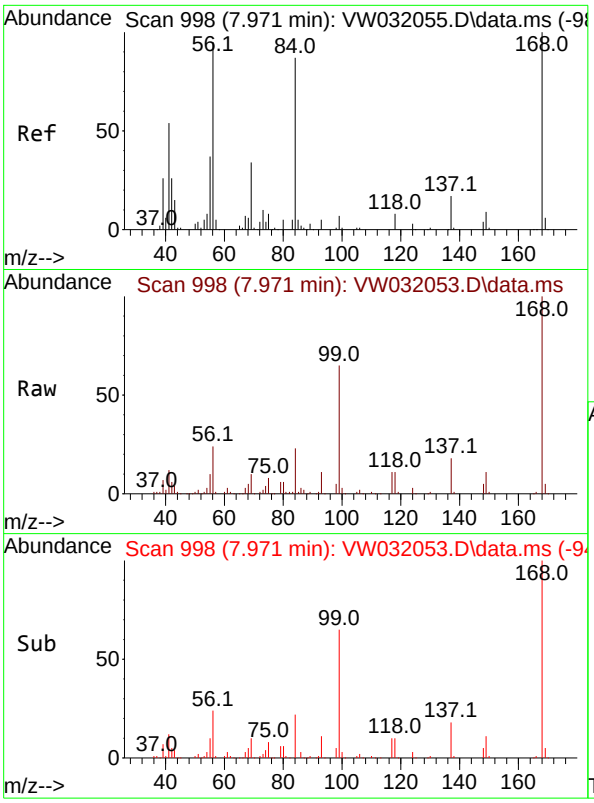


#30
Chloroform
Concen: 10.071 ug/l
RT: 7.697 min Scan# 953
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 57170

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.4

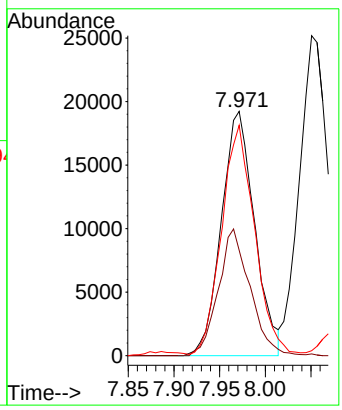




#31
Cyclohexane
Concen: 10.477 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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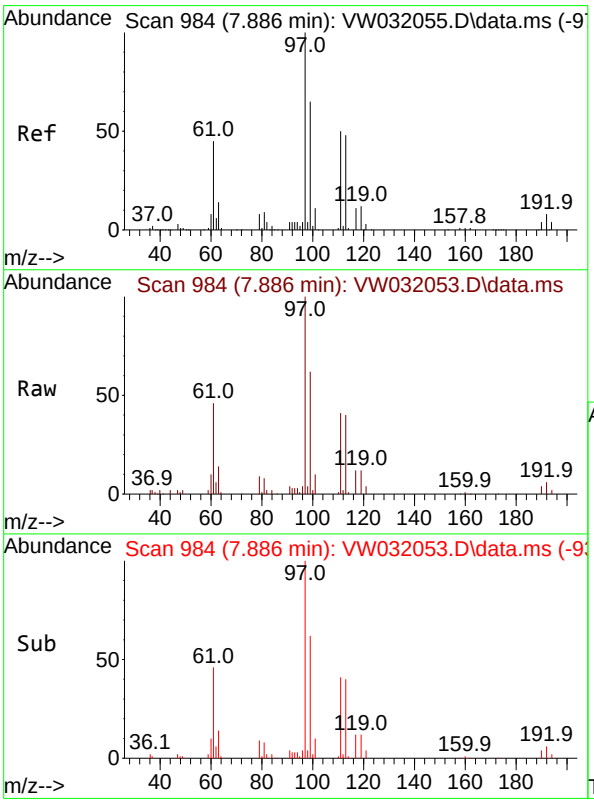
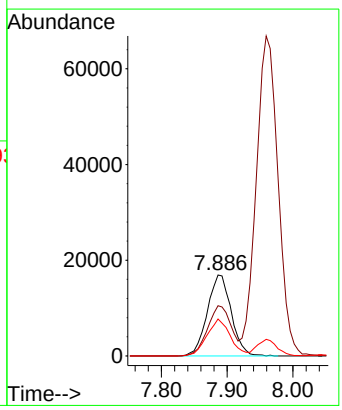
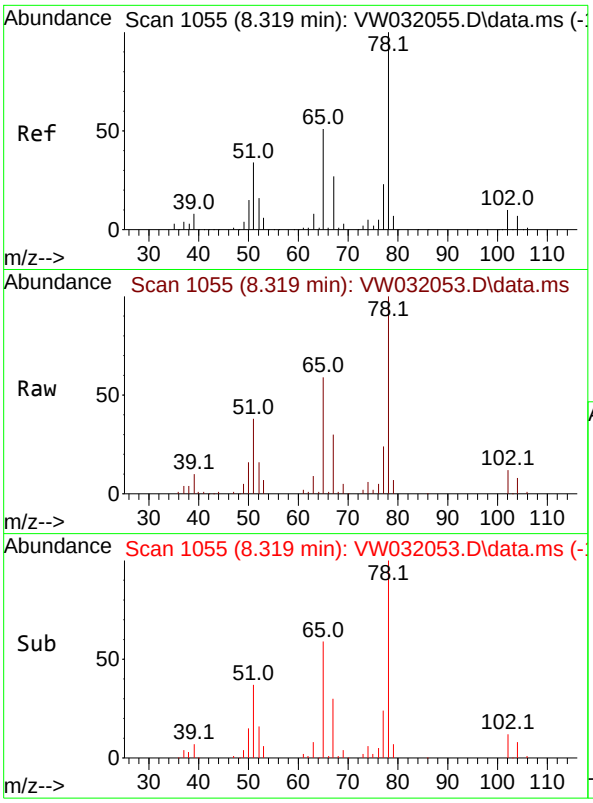


#32
1,1,1-Trichloroethane
Concen: 10.368 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

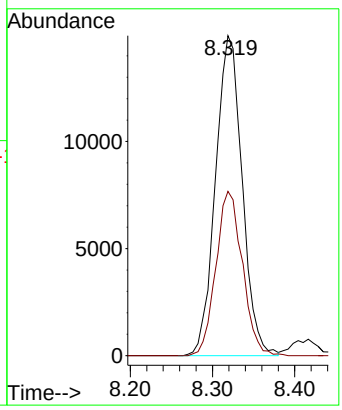




#33
1,2-Dichloroethane-d4
Concen: 10.337 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 65 Resp: 3367

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4



Instrument :
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ClientSampleId :
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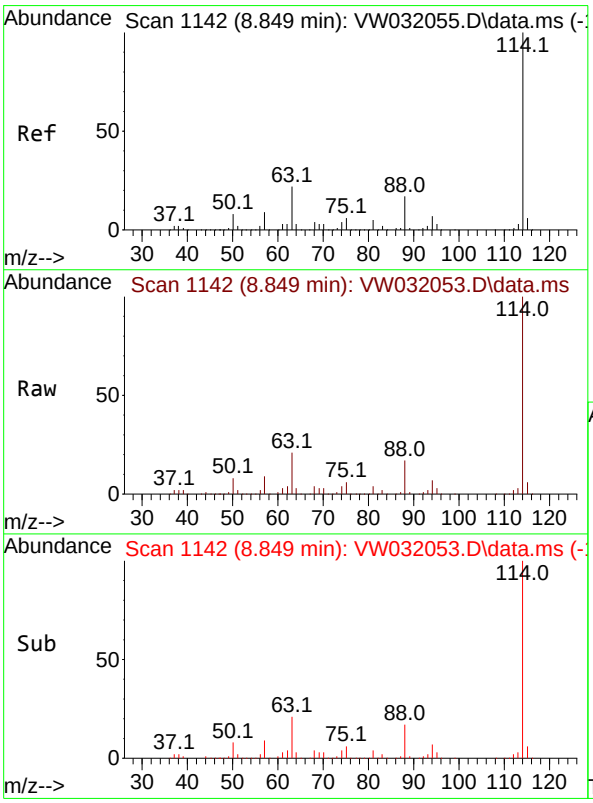
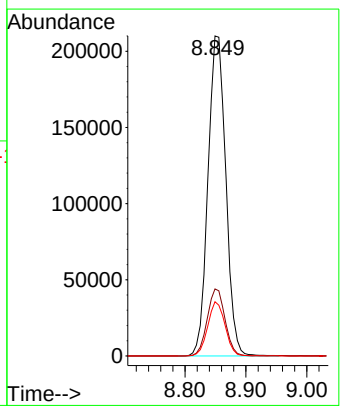
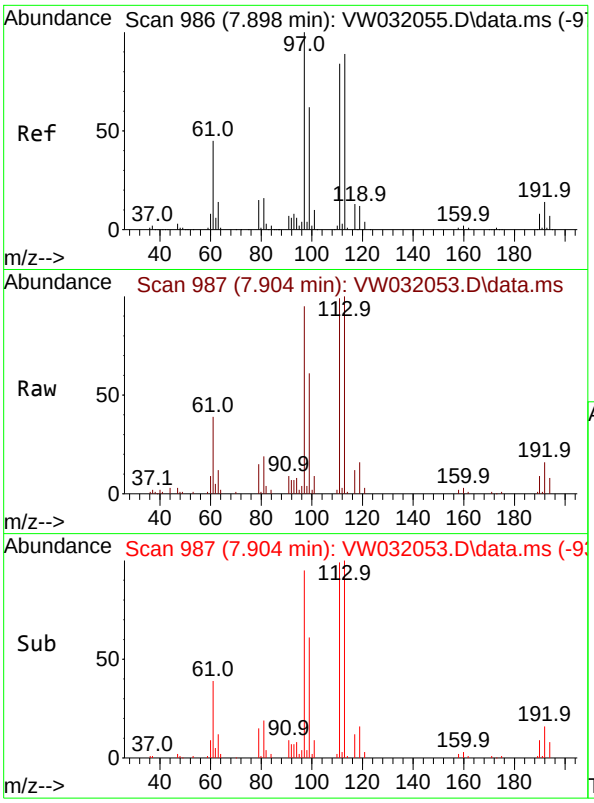


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

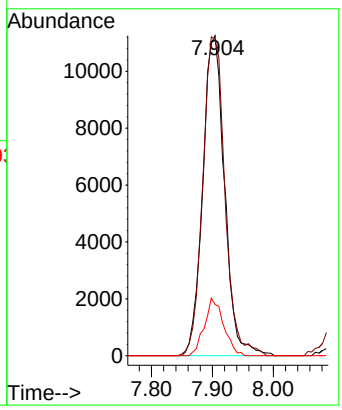




#35
Dibromofluoromethane
Concen: 10.147 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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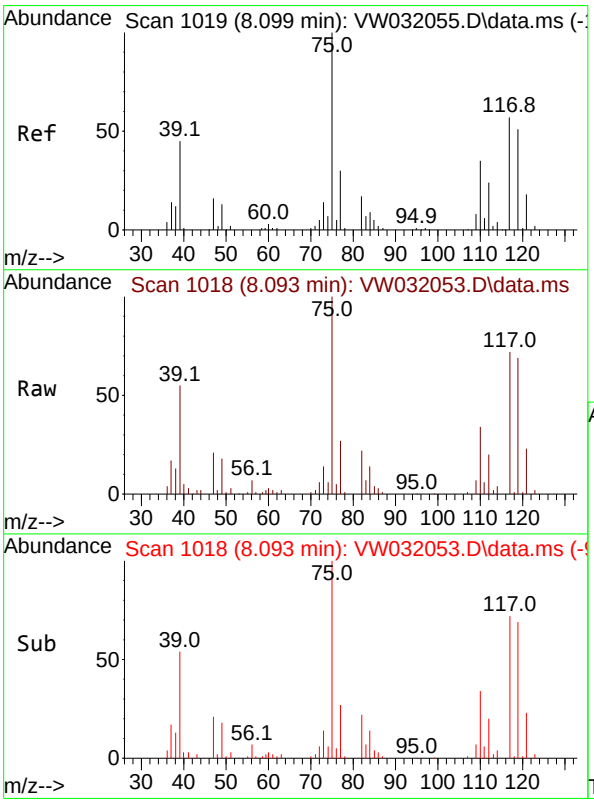
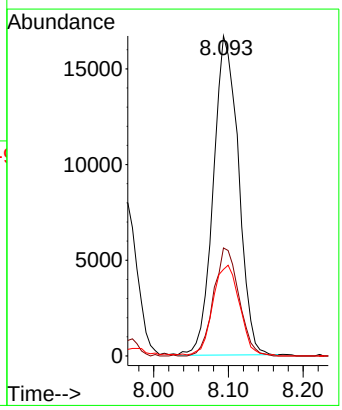
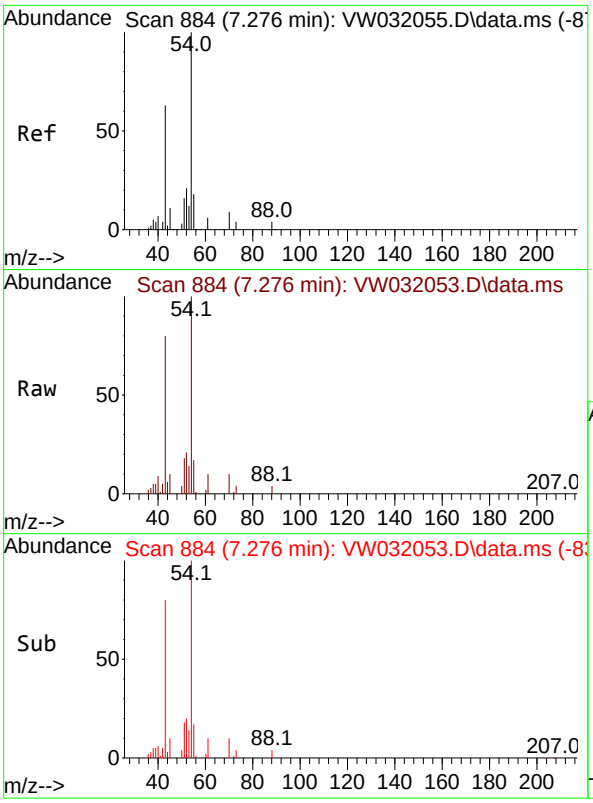


#36
1,1-Dichloropropene
Concen: 10.032 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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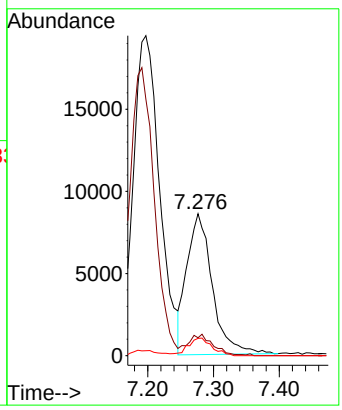
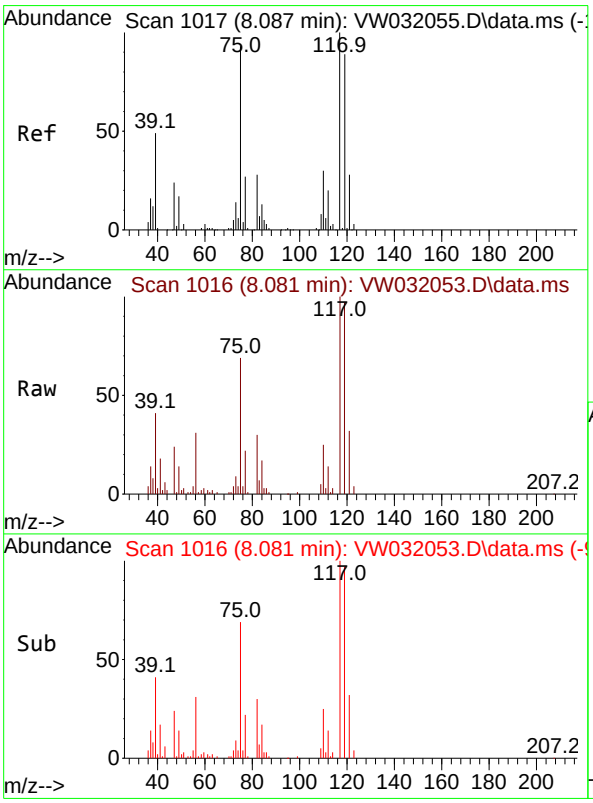
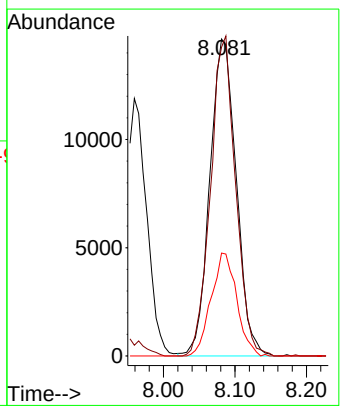


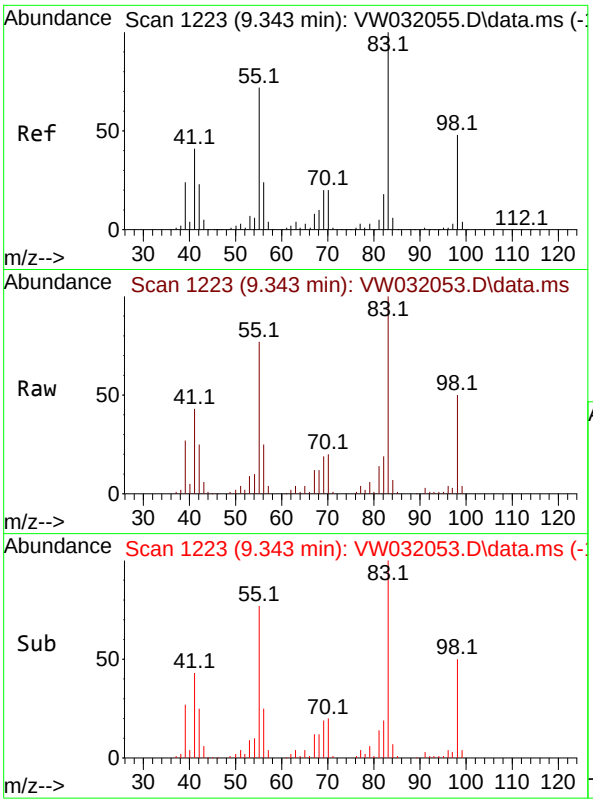


#38
Carbon Tetrachloride
Concen: 10.007 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

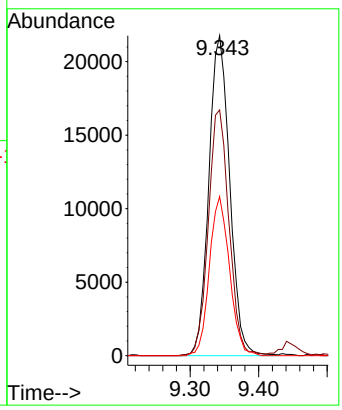




#39
Methylcyclohexane
Concen: 9.731 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



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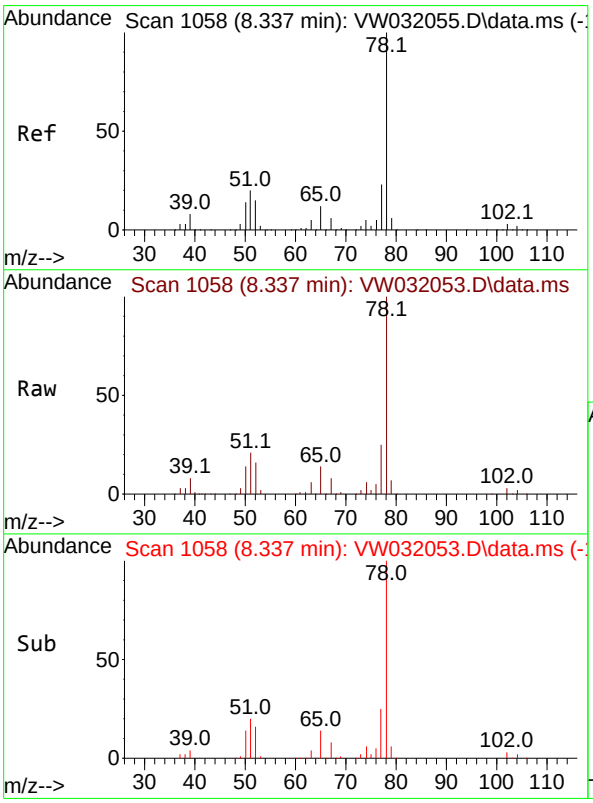
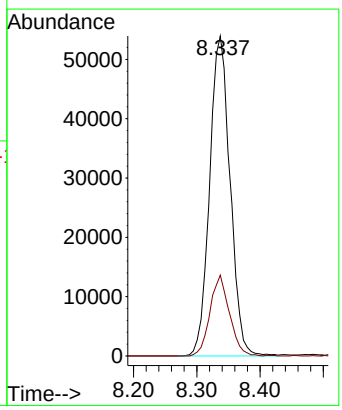
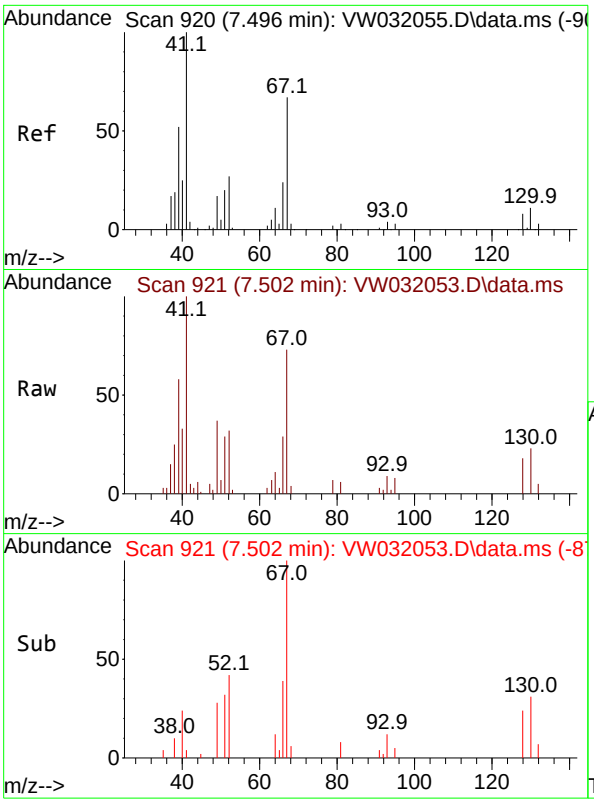


#40
Benzene
Concen: 10.053 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 78 Resp: 121462

Ion	Ratio	Lower	Upper
78	100		
77	25.3	18.4	27.6

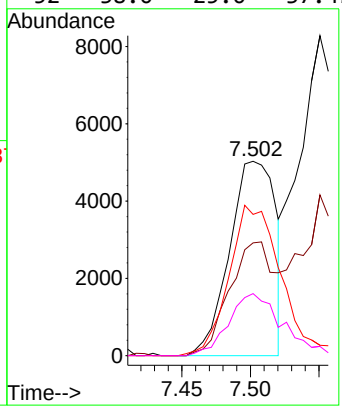




#41
Methacrylonitrile
Concen: 9.035 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
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ClientSampleId :
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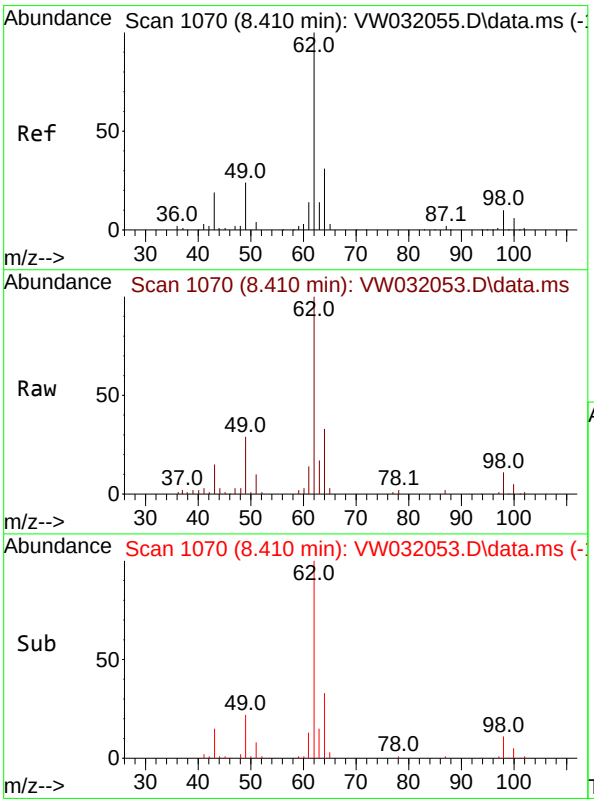
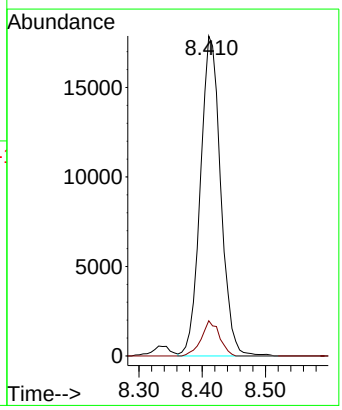
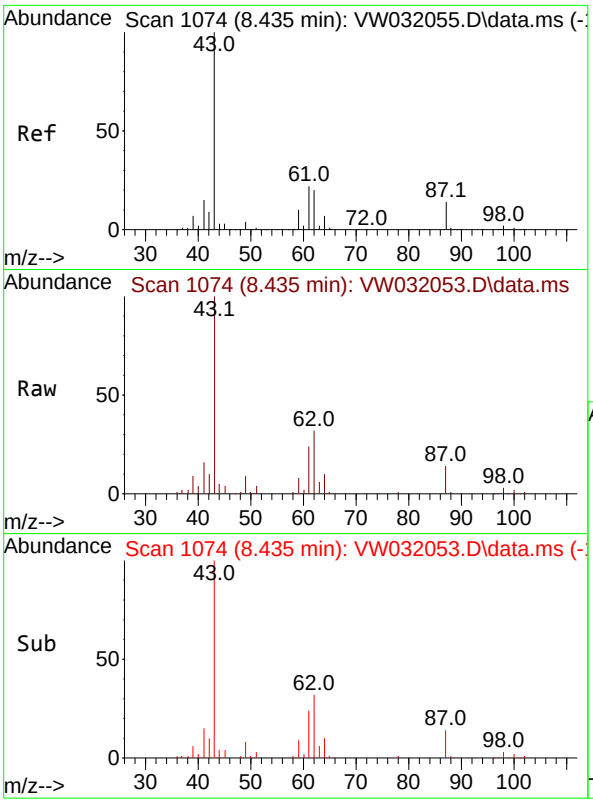


#42
1,2-Dichloroethane
Concen: 10.316 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

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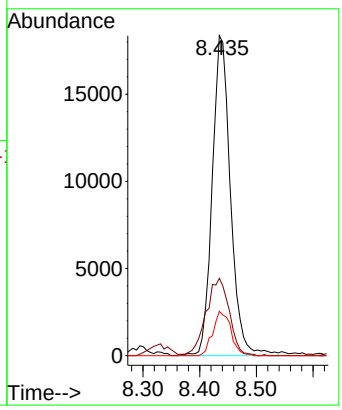
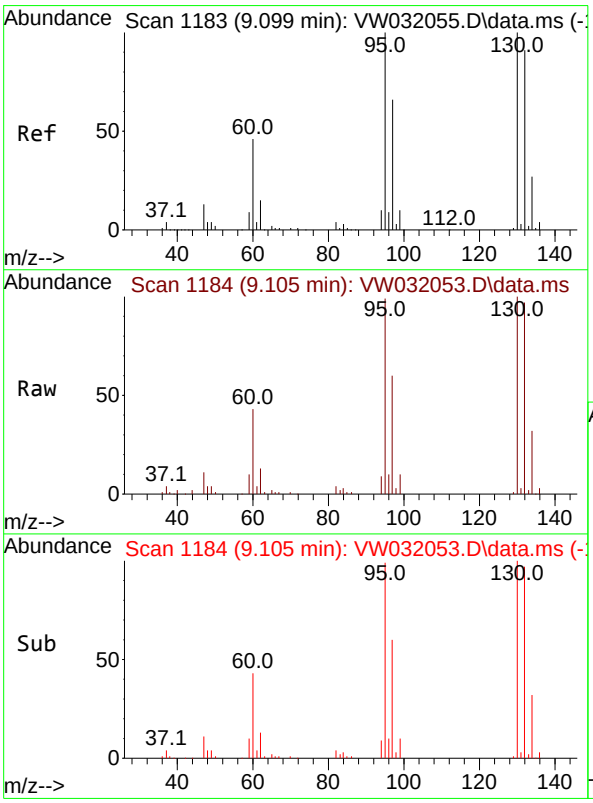
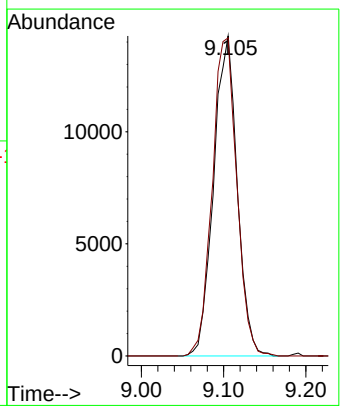


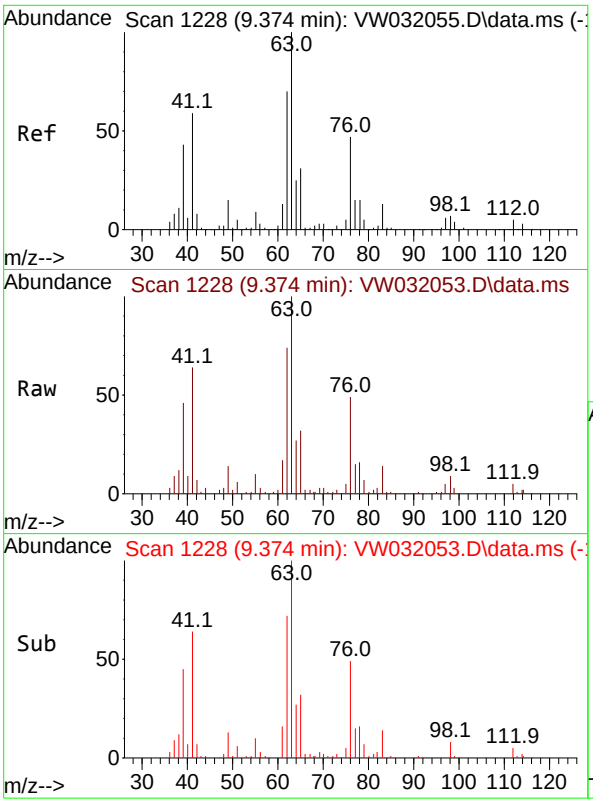


#44
Trichloroethene
Concen: 9.905 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:130 Resp: 28498

Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	200.6

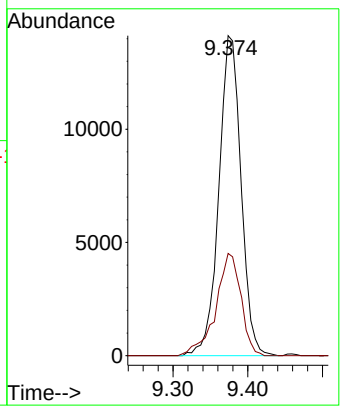




#45
1,2-Dichloropropane
Concen: 10.004 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 2919

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8



Instrument :
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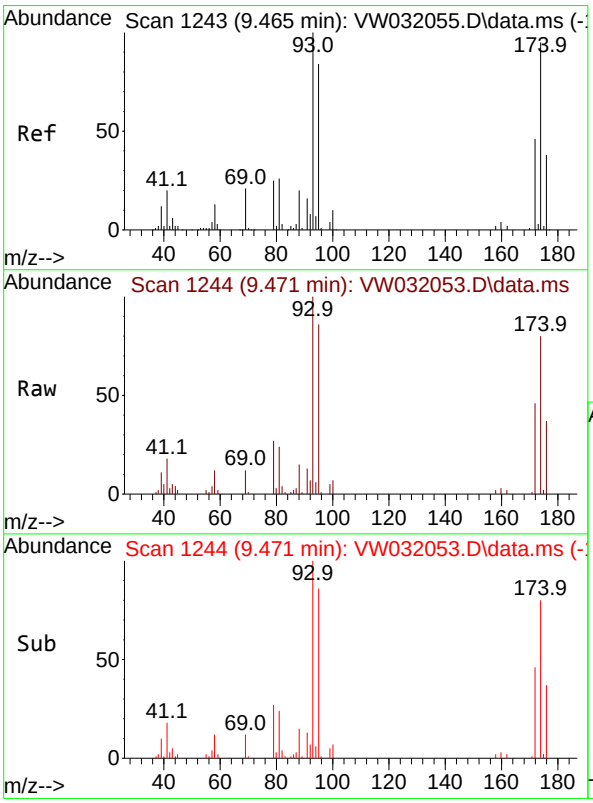
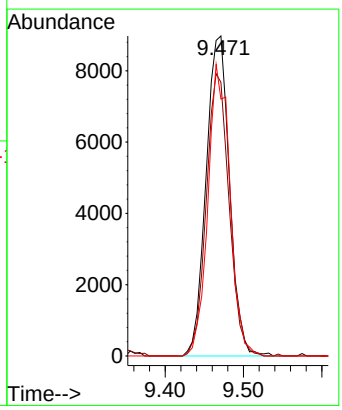
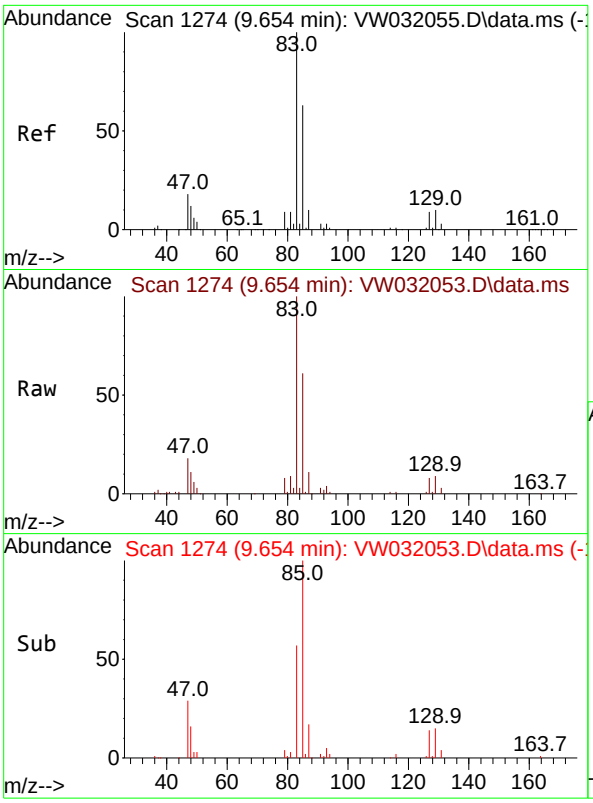


#46
Dibromomethane
Concen: 9.901 ug/l
RT: 9.471 min Scan# 1244
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

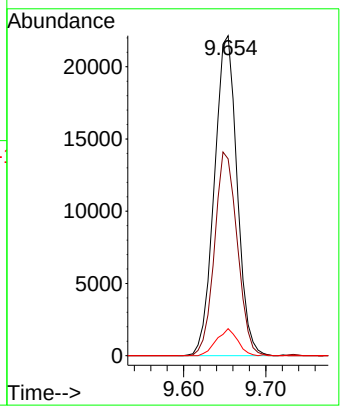




#47
Bromodichloromethane
Concen: 9.818 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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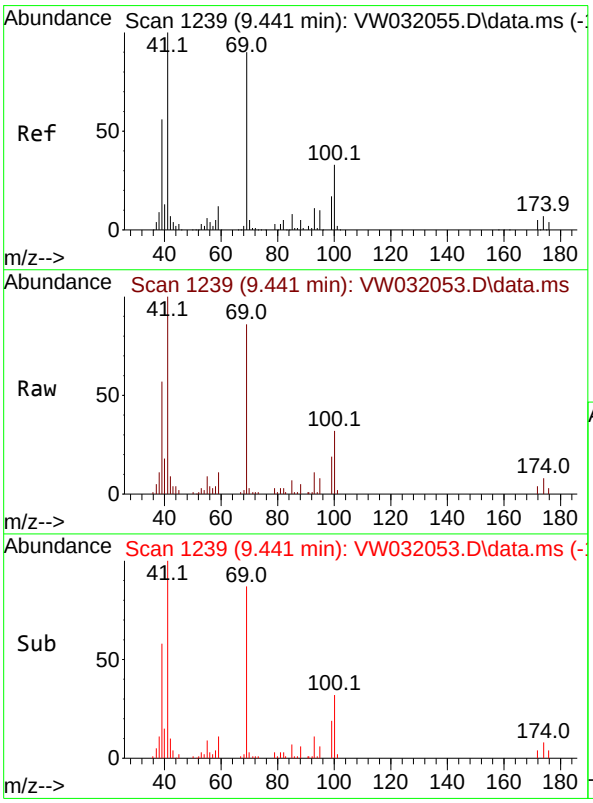
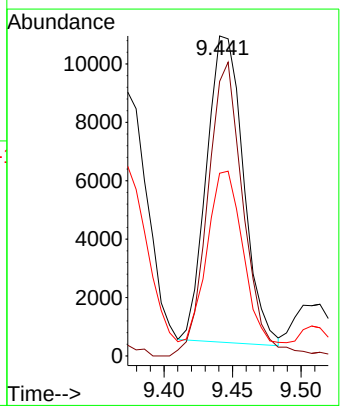
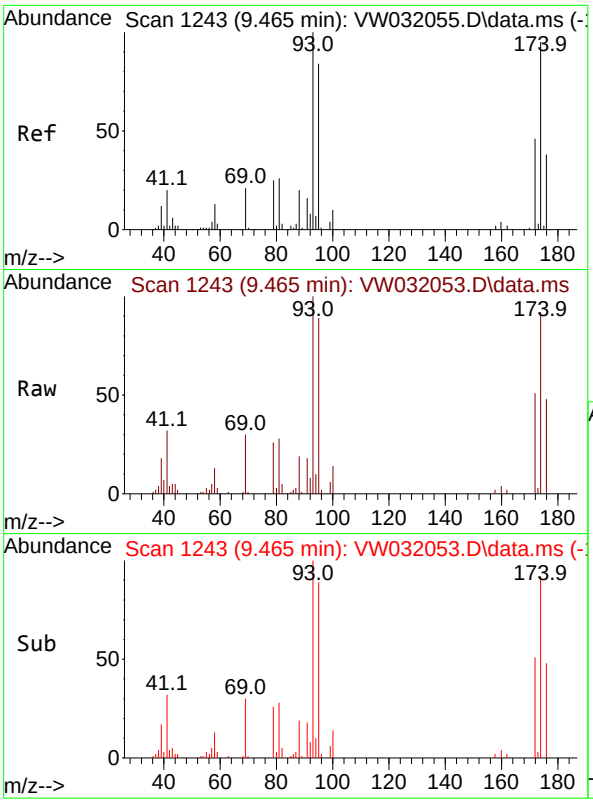


#48
Methyl methacrylate
Concen: 9.666 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

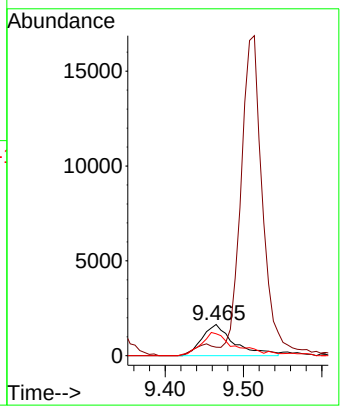




#49
1,4-Dioxane
Concen: 192.302 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
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ClientSampleId :
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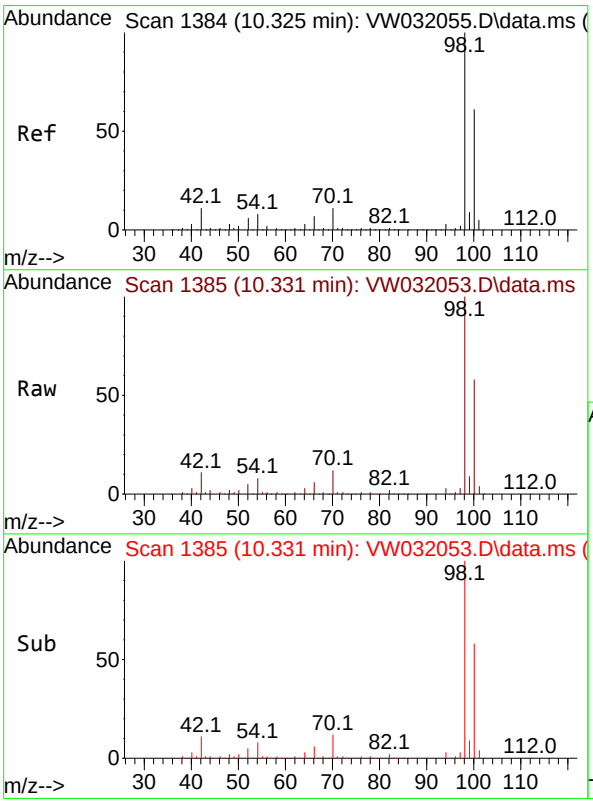
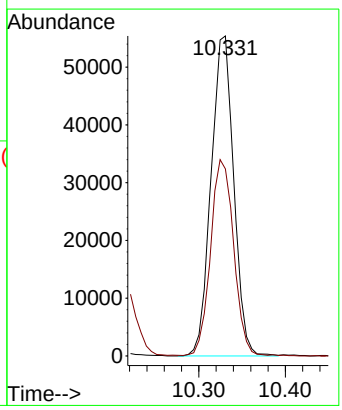
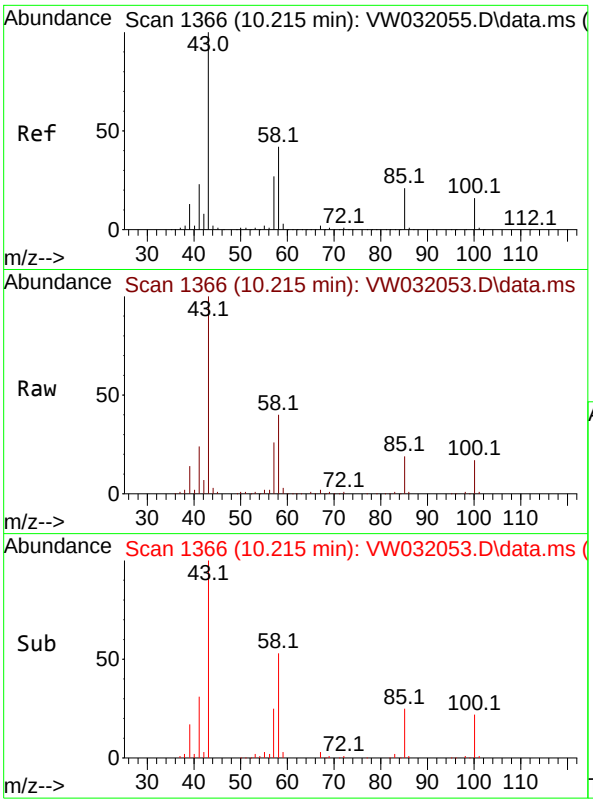


#50
Toluene-d8
Concen: 9.875 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
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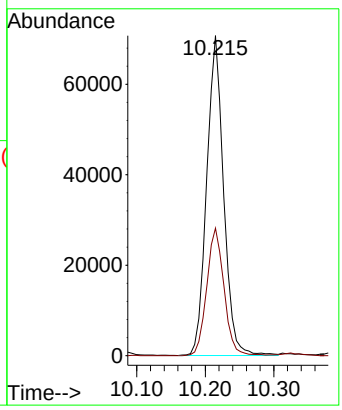
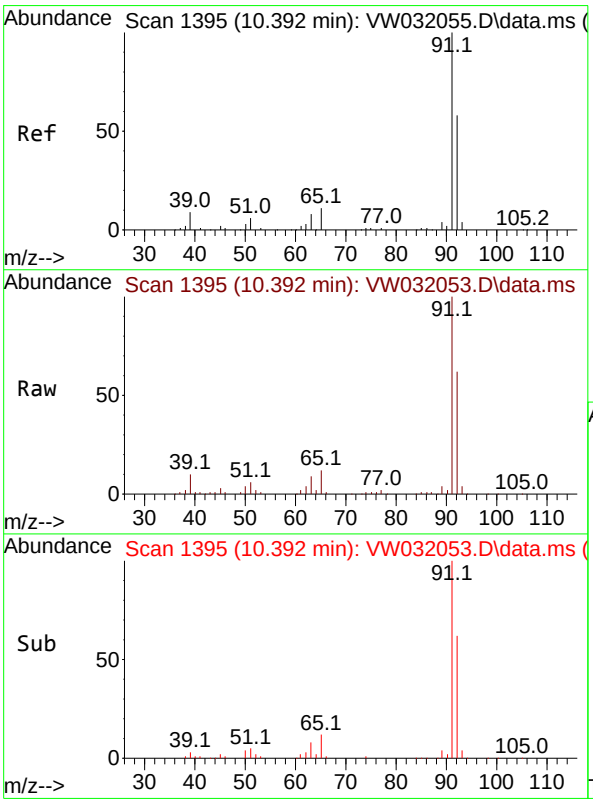
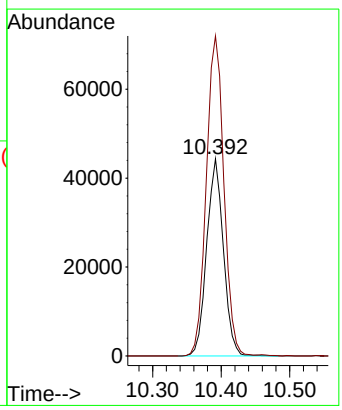


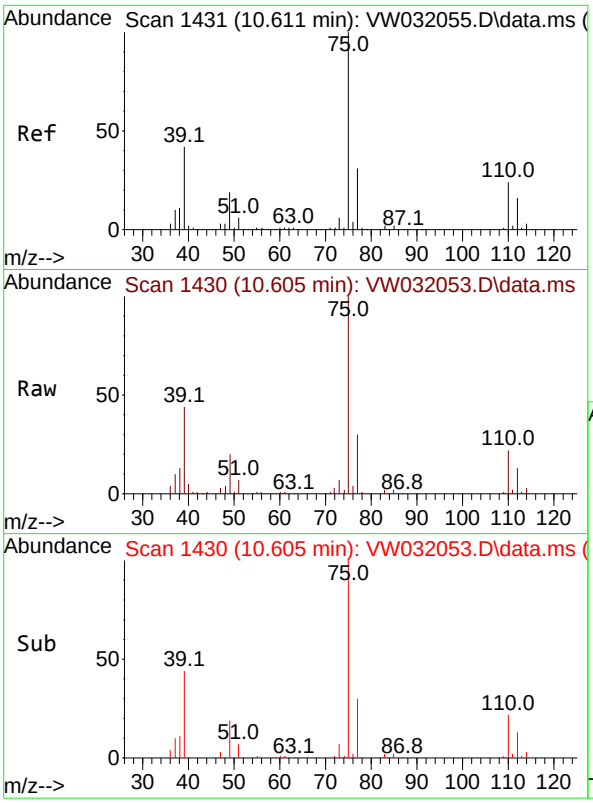


#52
Toluene
Concen: 9.888 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 92 Resp: 75250

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.3	204.5

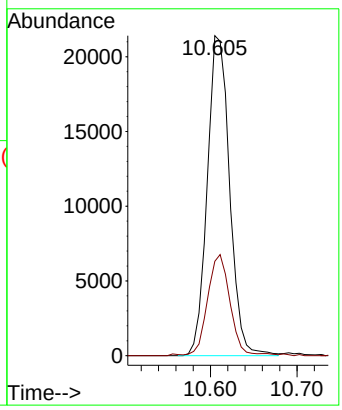




#53
t-1,3-Dichloropropene
Concen: 9.441 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 3839

Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.0	37.6



Instrument :
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ClientSampleId :
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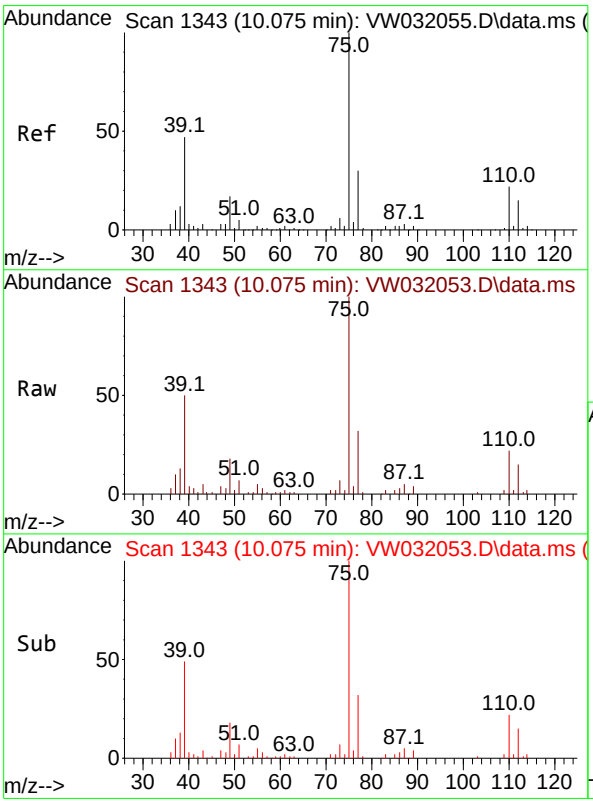
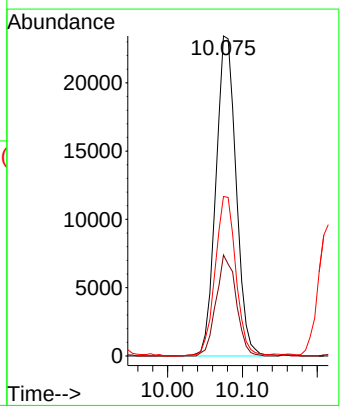
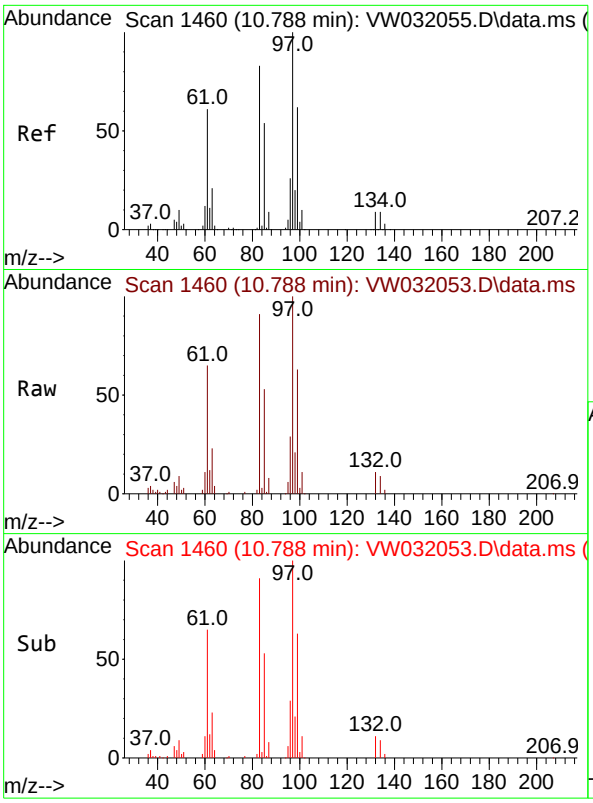


#54
cis-1,3-Dichloropropene
Concen: 9.543 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

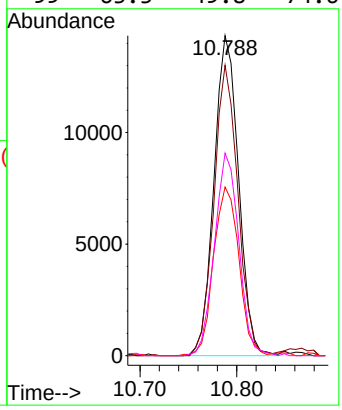




#55
1,1,2-Trichloroethane
Concen: 10.097 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
MSVOA_W
ClientSampleId :
VSTDICC010

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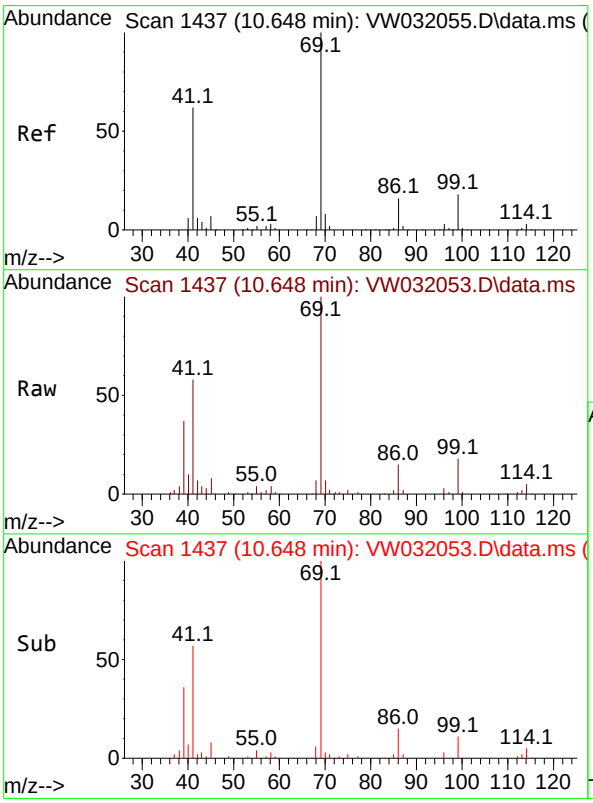
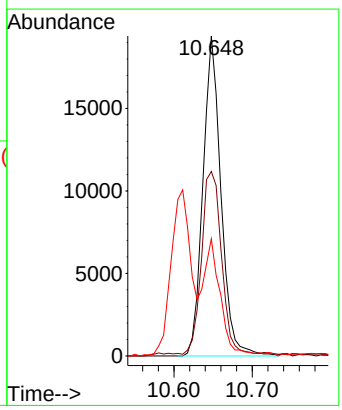
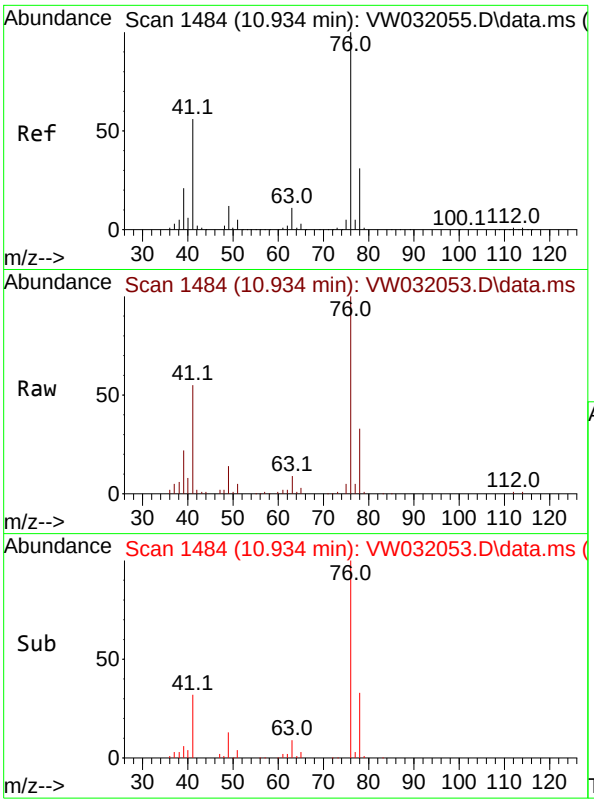


#56
Ethyl methacrylate
Concen: 9.260 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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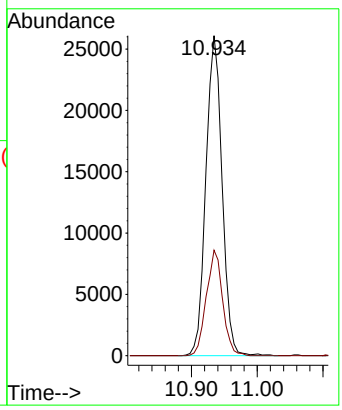
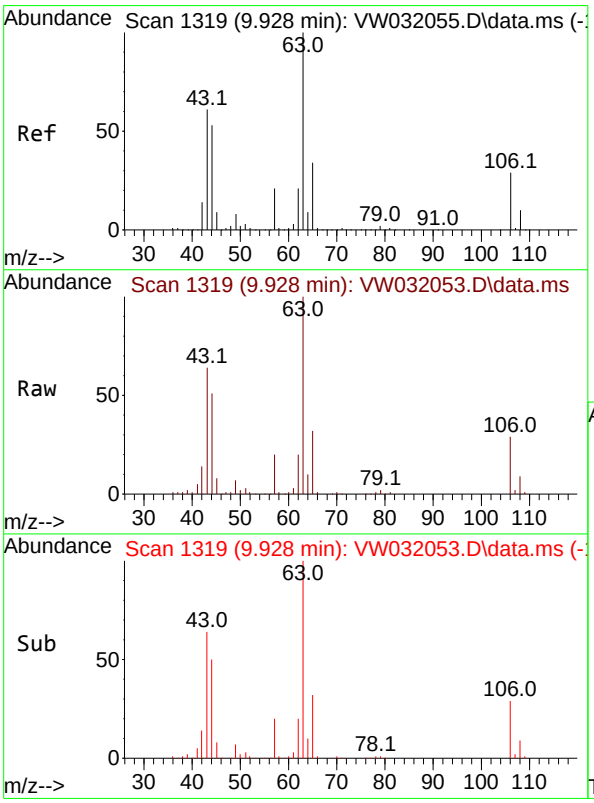
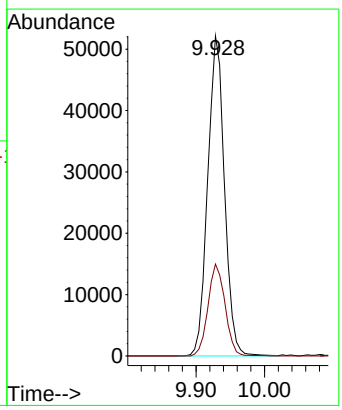


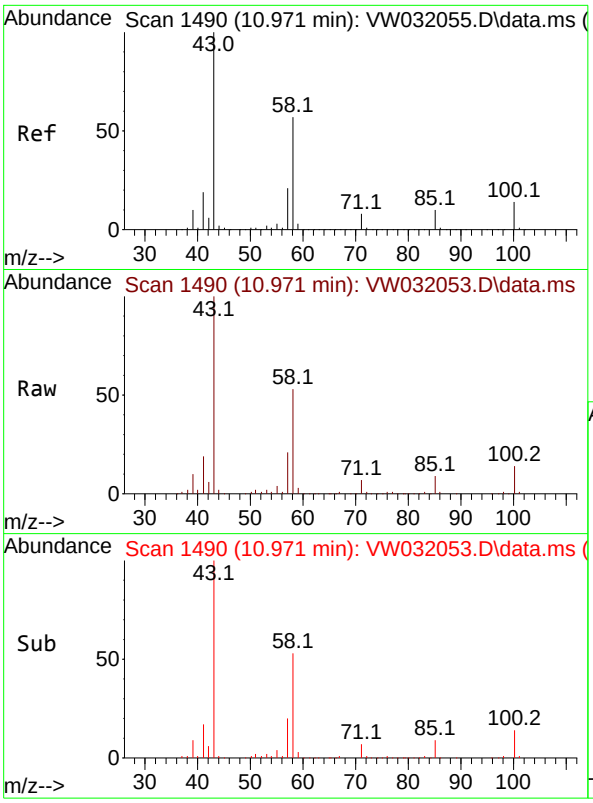


#58
2-Chloroethyl Vinyl ether
Concen: 47.830 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
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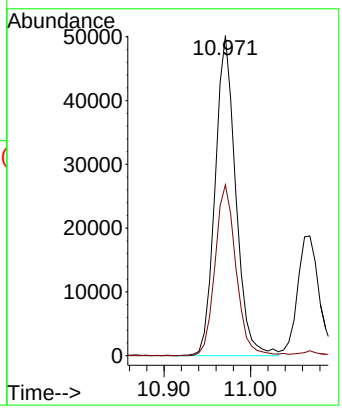
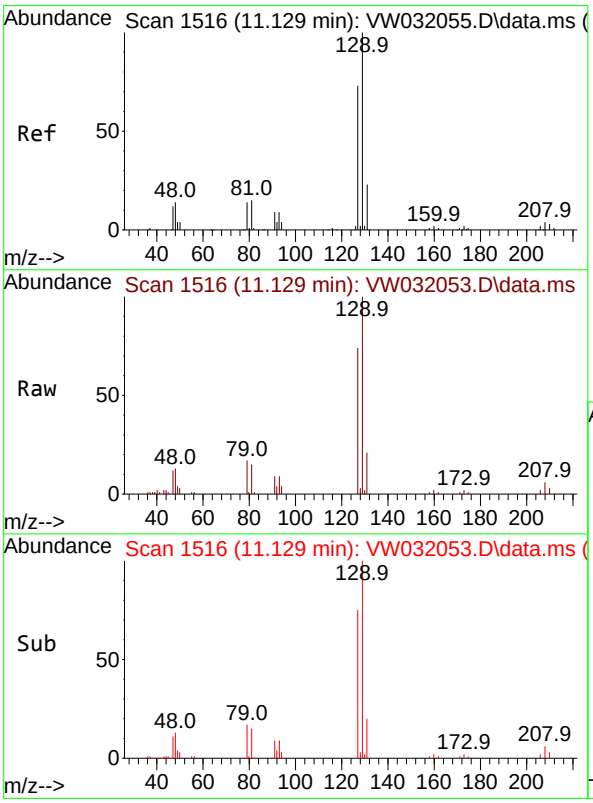
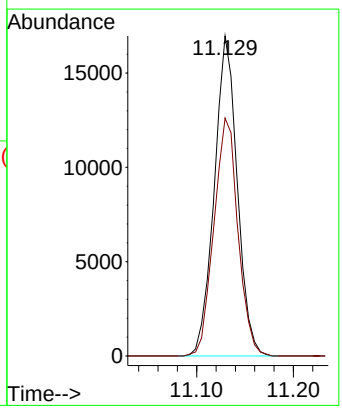


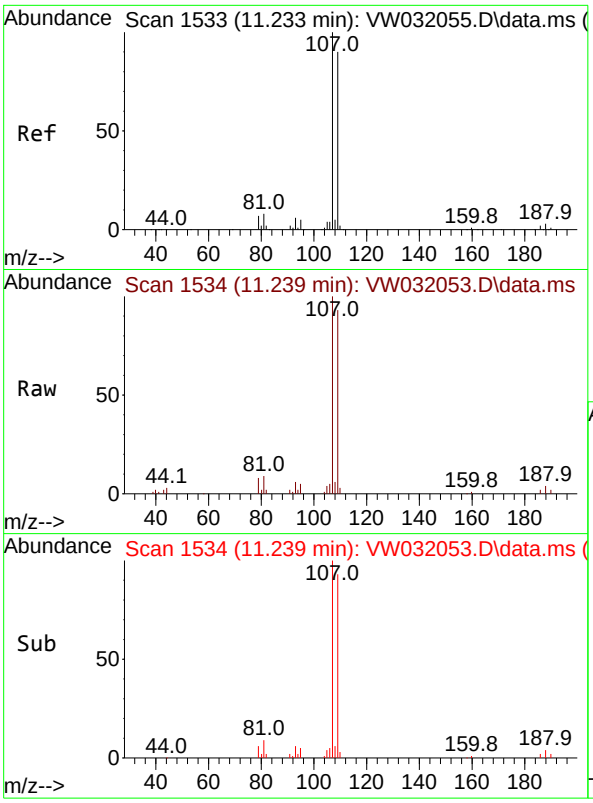


#60
Dibromochloromethane
Concen: 9.776 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:129 Resp: 27954

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.0	116.9

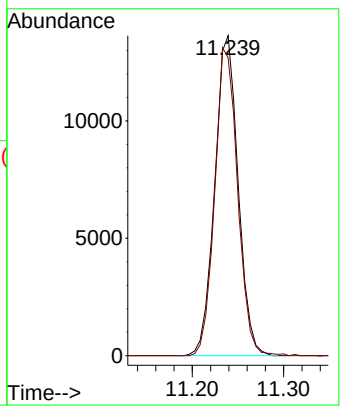




#61
1,2-Dibromoethane
Concen: 9.926 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:107 Resp: 2414

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.2	111.4



Instrument :
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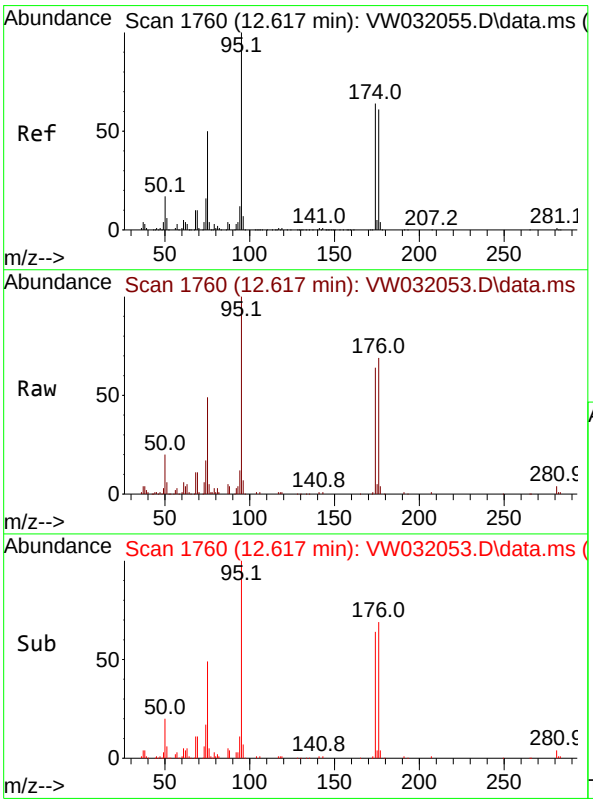
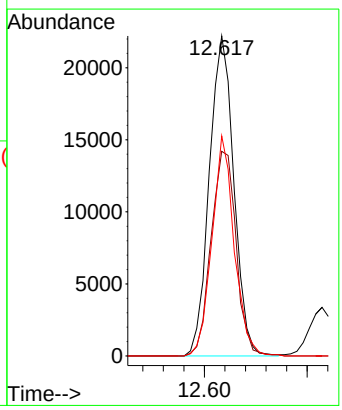
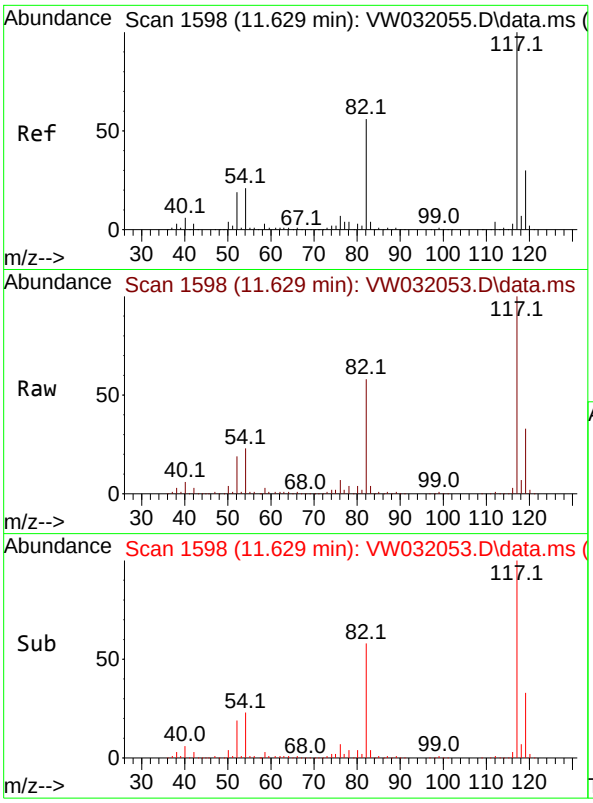


#62
4-Bromofluorobenzene
Concen: 9.778 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

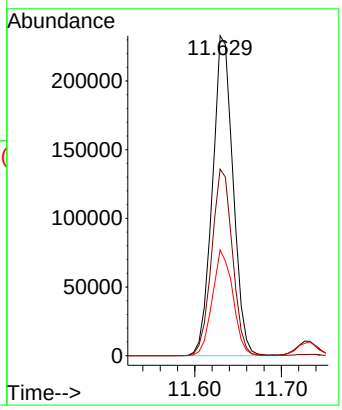




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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 :
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ClientSampleId :
VSTDICC010

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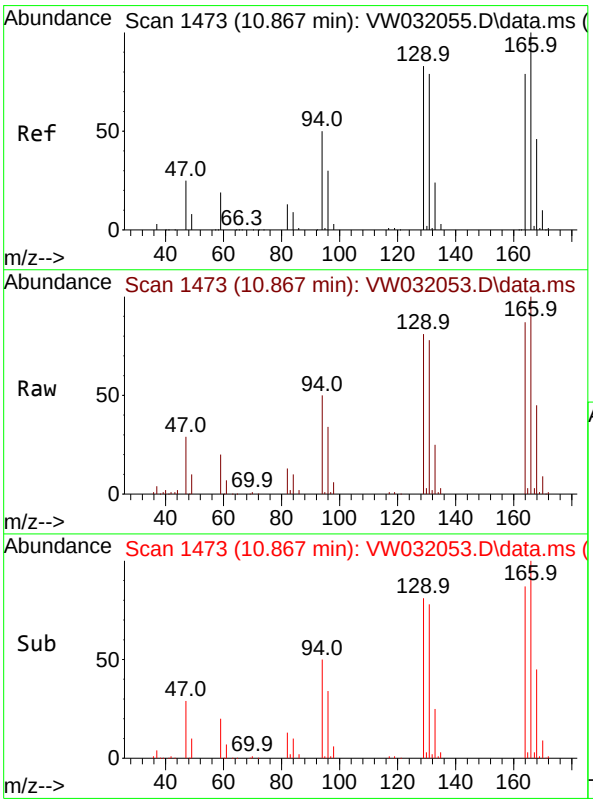
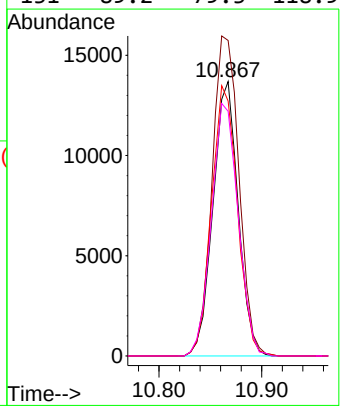
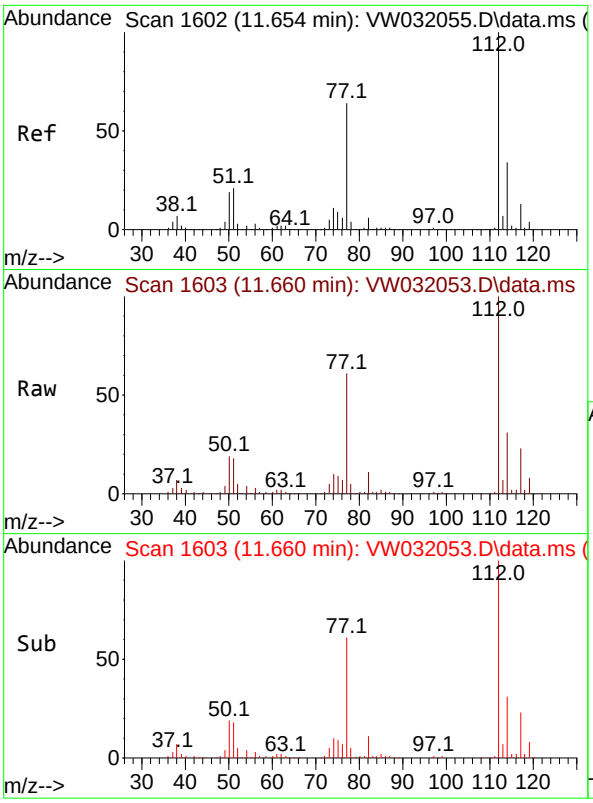


#64
Tetrachloroethene
Concen: 10.431 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

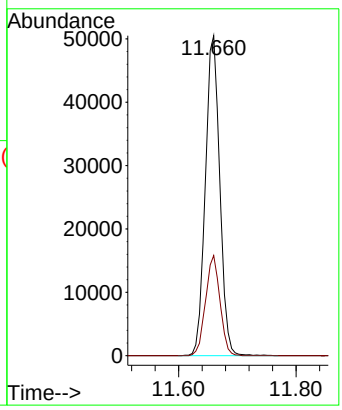




#65
Chlorobenzene
Concen: 10.257 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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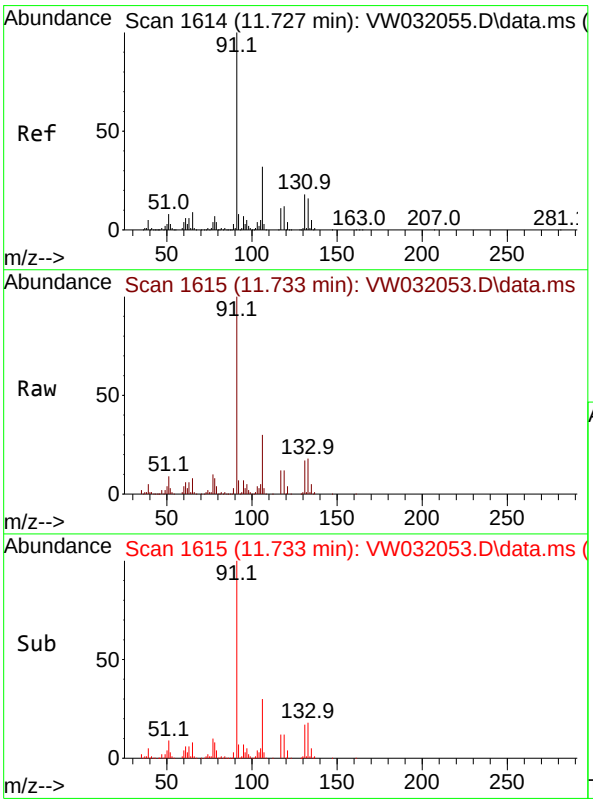
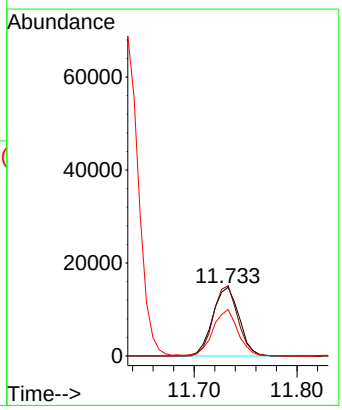
Supervised By :Semsettin Yesilyurt 08/12/2025

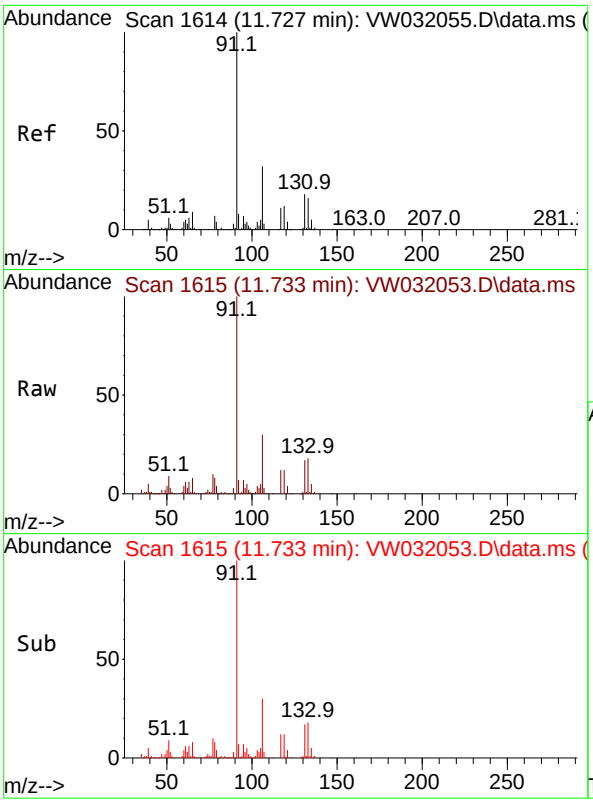


#66
1,1,1,2-Tetrachloroethane
Concen: 10.037 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

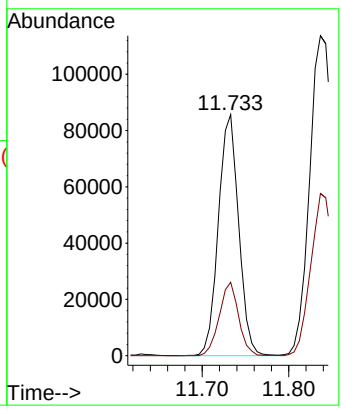




#67
Ethyl Benzene
Concen: 9.794 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 13925

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.0



Instrument :
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ClientSampleId :
VSTDICC010

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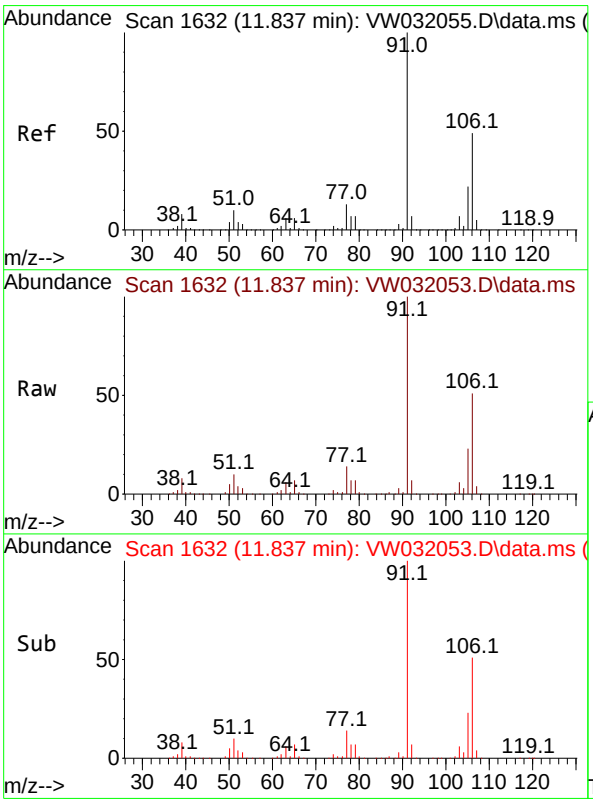
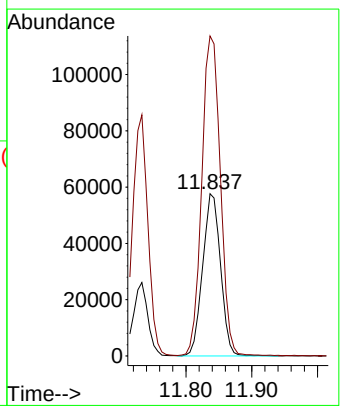
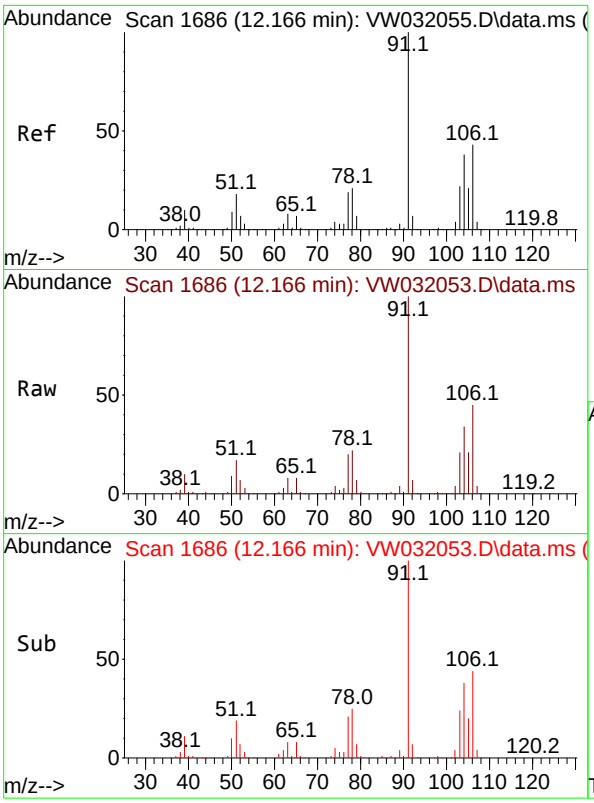


#68
m/p-Xylenes
Concen: 19.866 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 108990

Ion	Ratio	Lower	Upper
106	100		
91	205.0	162.2	243.2

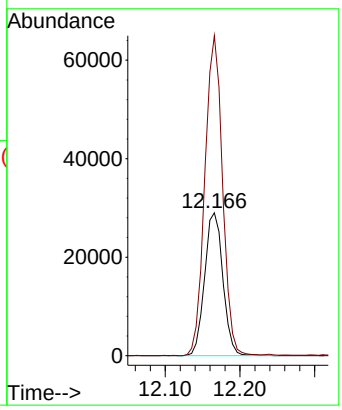




#69
o-Xylene
Concen: 9.714 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 4925

Ion	Ratio	Lower	Upper
106	100		
91	216.8	110.8	332.3



Instrument :
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ClientSampleId :
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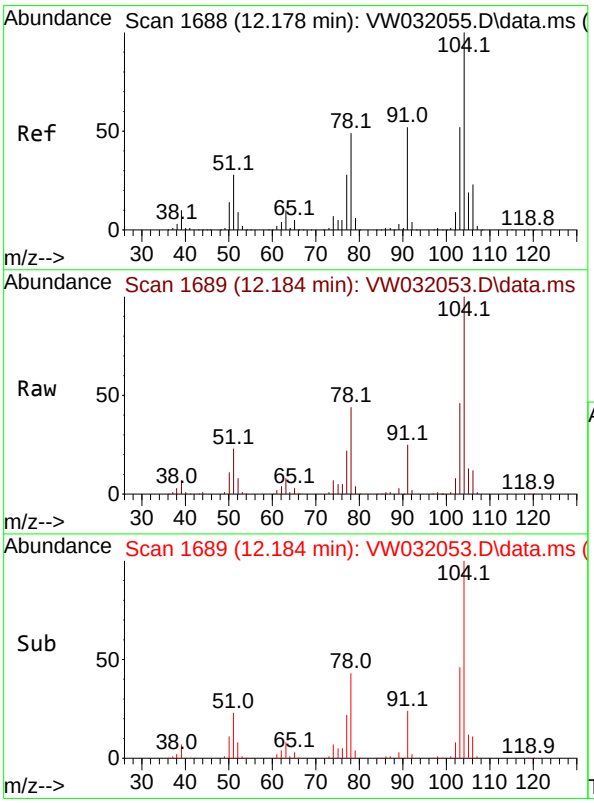
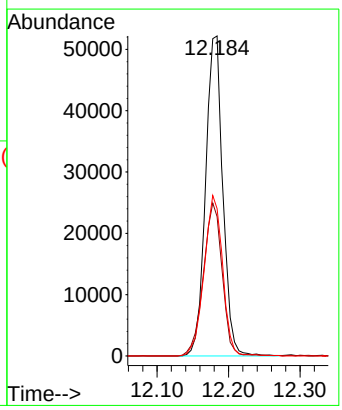
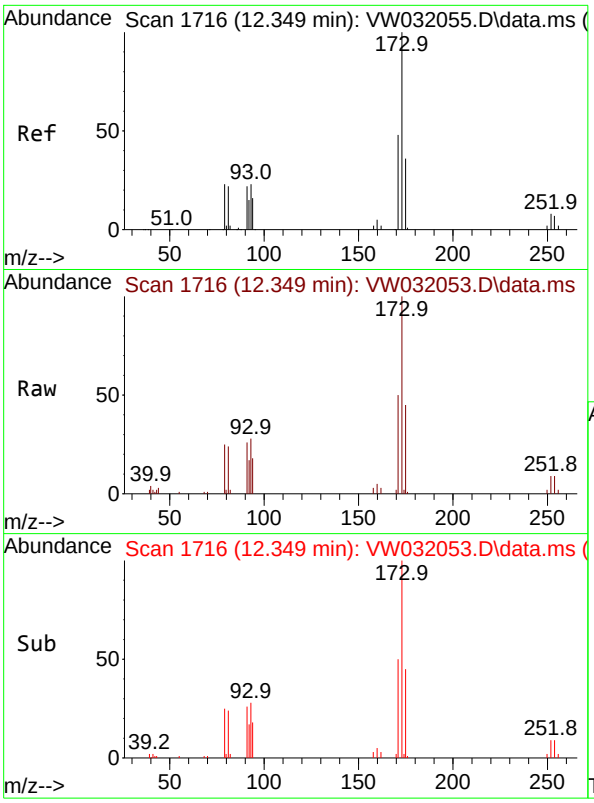


#70
Styrene
Concen: 9.719 ug/l
RT: 12.184 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

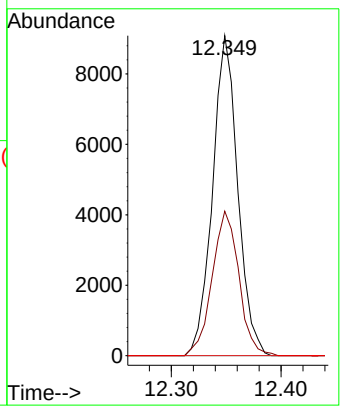




#71
Bromoform
Concen: 9.711 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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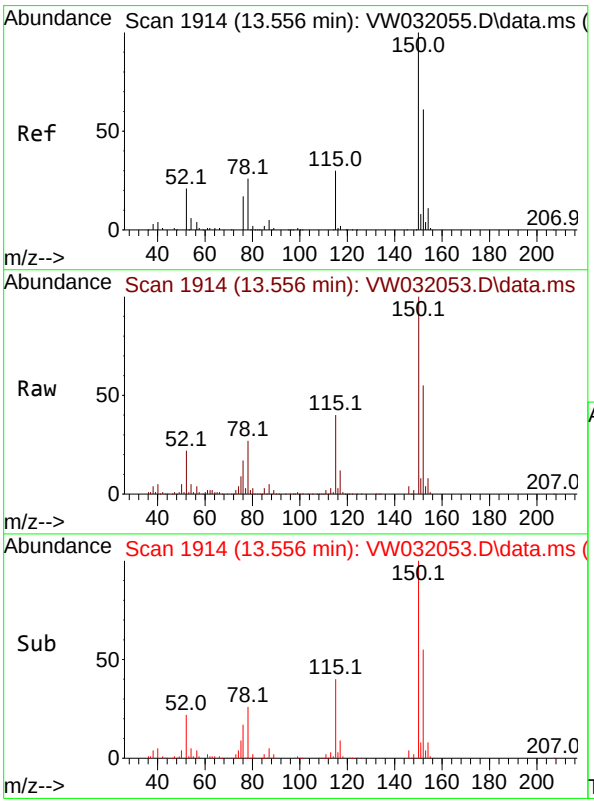
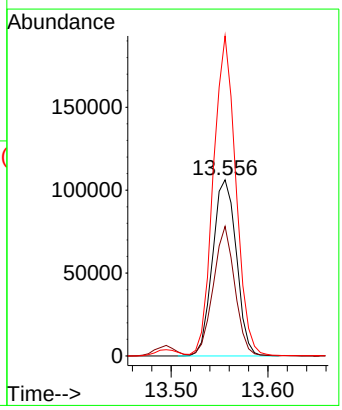
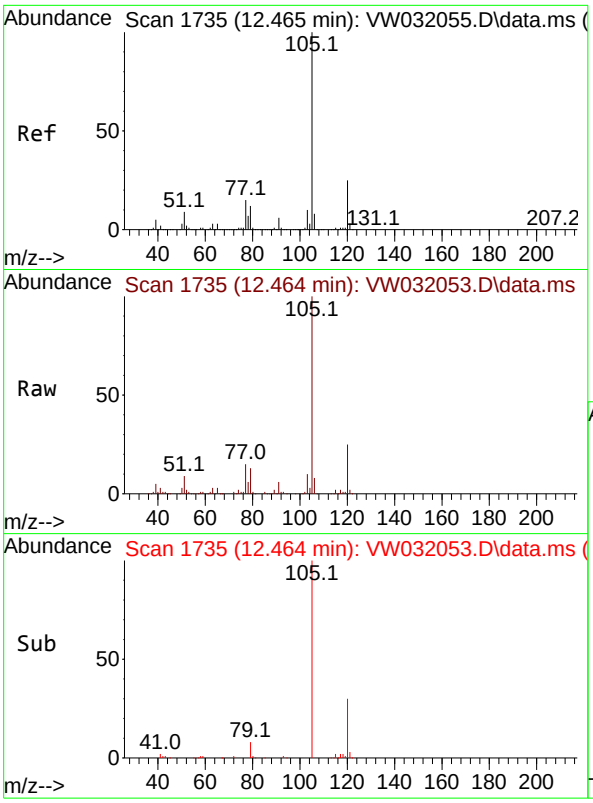


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

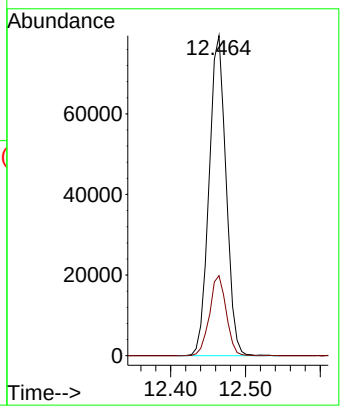




#73
Isopropylbenzene
Concen: 9.886 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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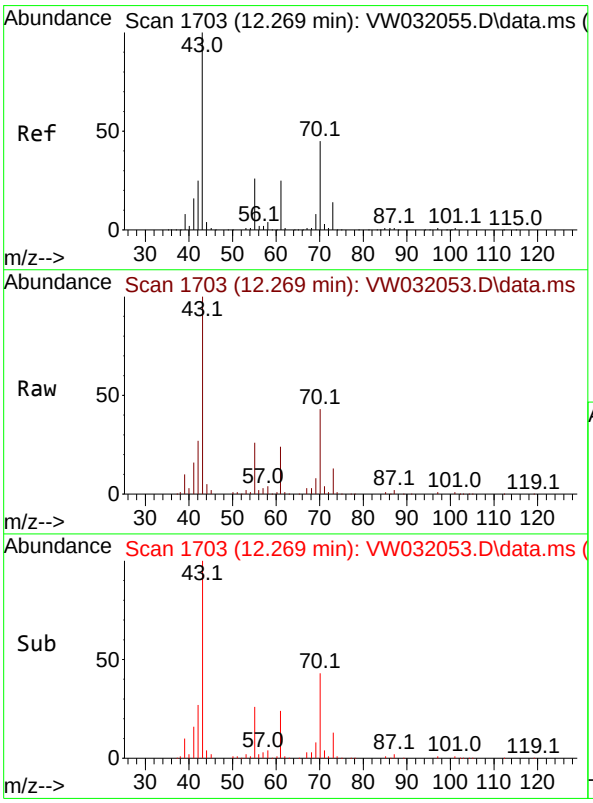
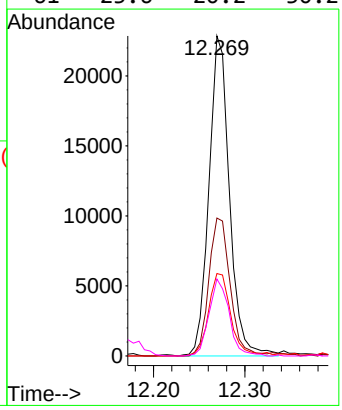
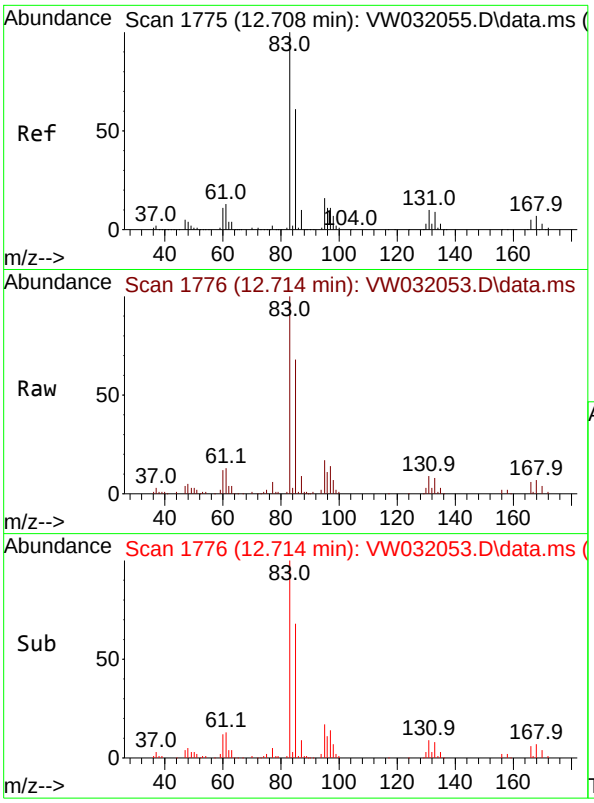


#74
N-amyl acetate
Concen: 9.804 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

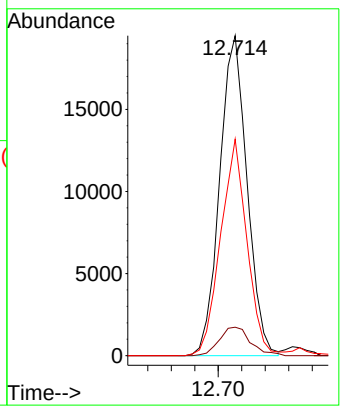




#75
1,1,2,2-Tetrachloroethane
Concen: 10.499 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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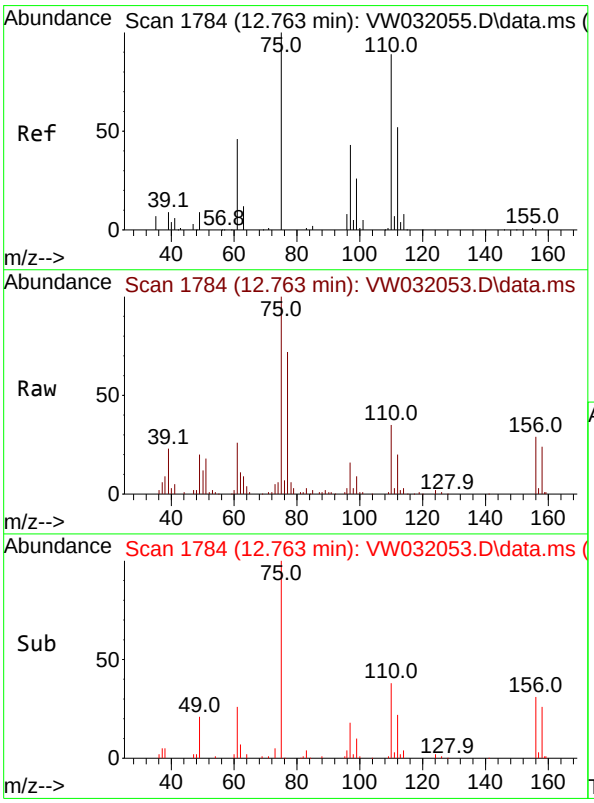
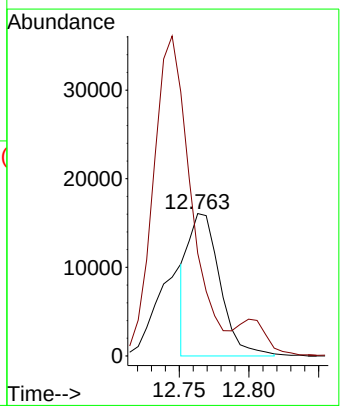
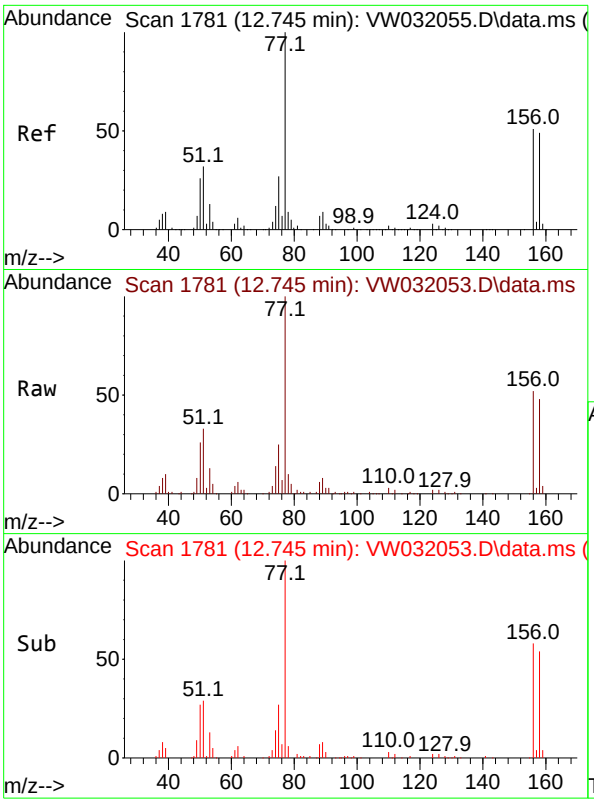


#76
1,2,3-Trichloropropane
Concen: 9.147 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 25489

Ion	Ratio	Lower	Upper
75	100		
77	269.3	123.5	370.5

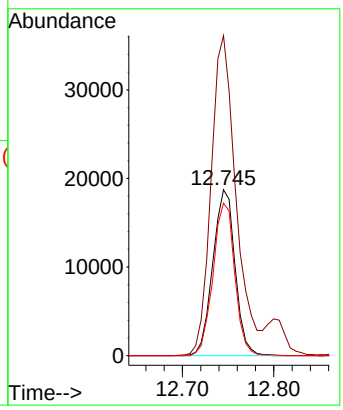




#77
Bromobenzene
Concen: 10.462 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

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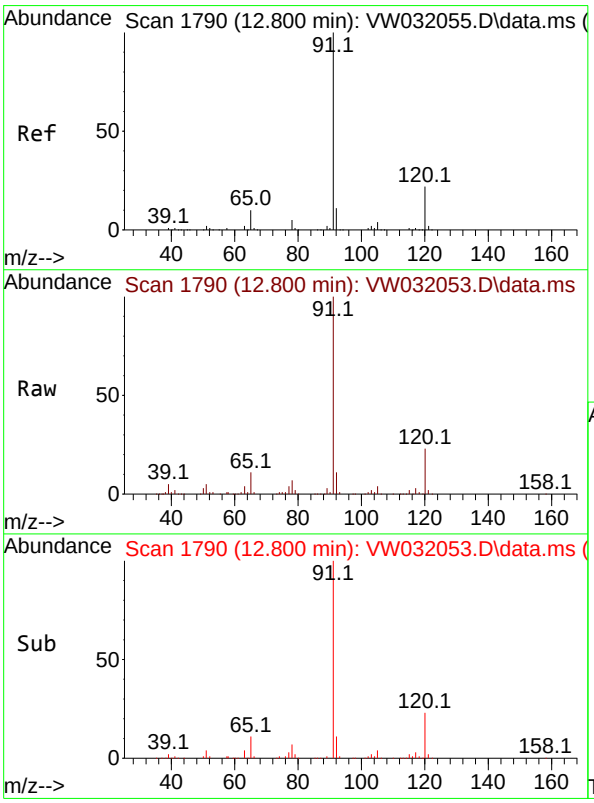
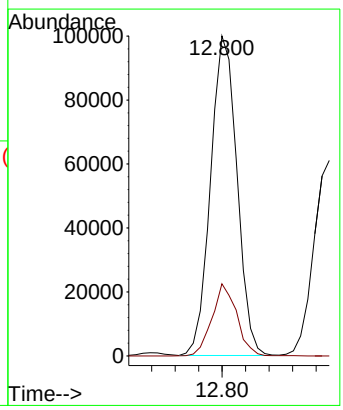
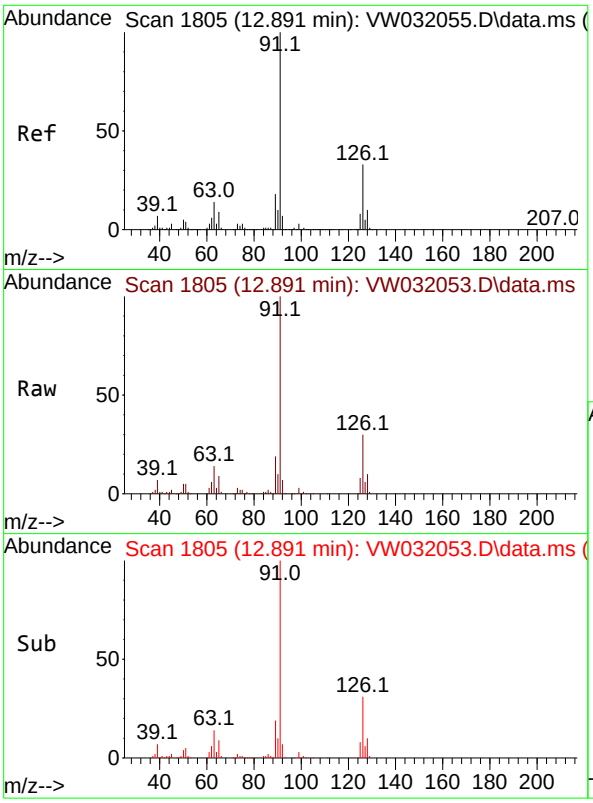


#78
n-propylbenzene
Concen: 10.019 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 156266

Ion	Ratio	Lower	Upper
91	100		
120	21.1	11.1	33.3

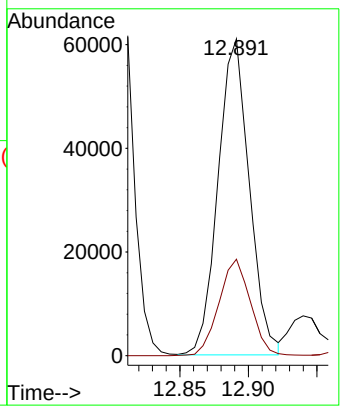




#79
2-Chlorotoluene
Concen: 10.071 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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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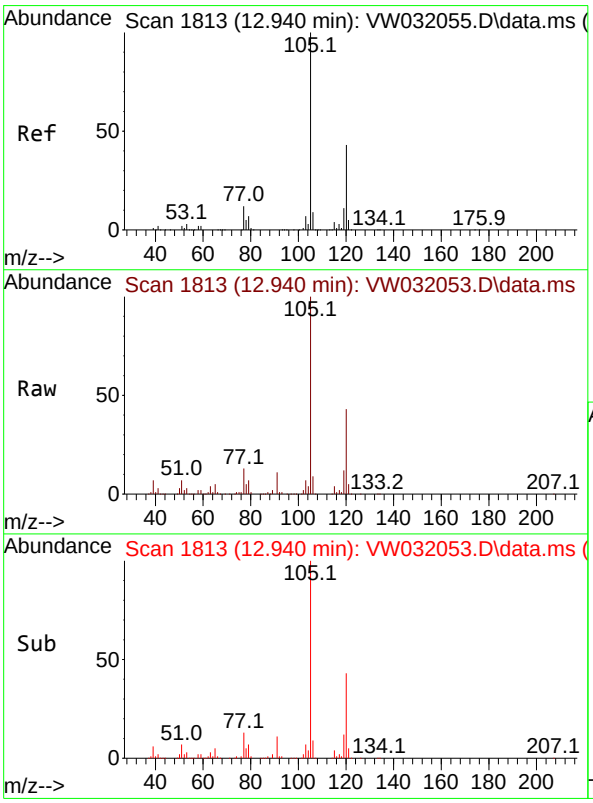
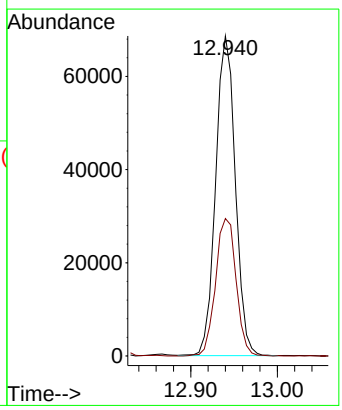
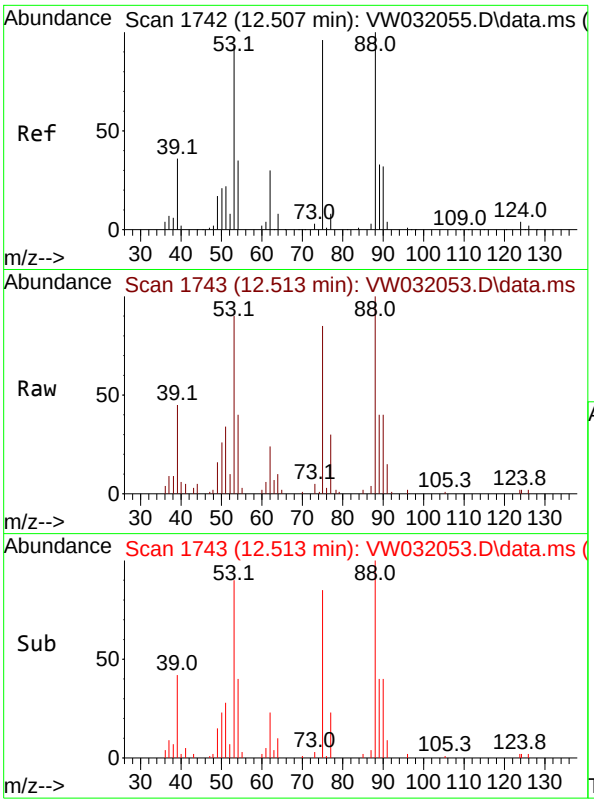


#80
1,3,5-Trimethylbenzene
Concen: 10.053 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

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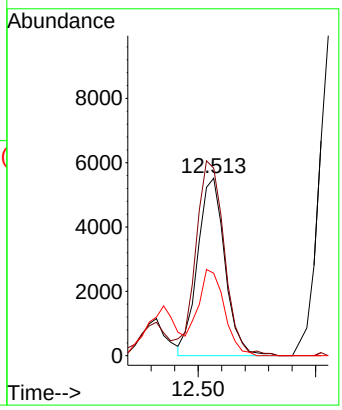
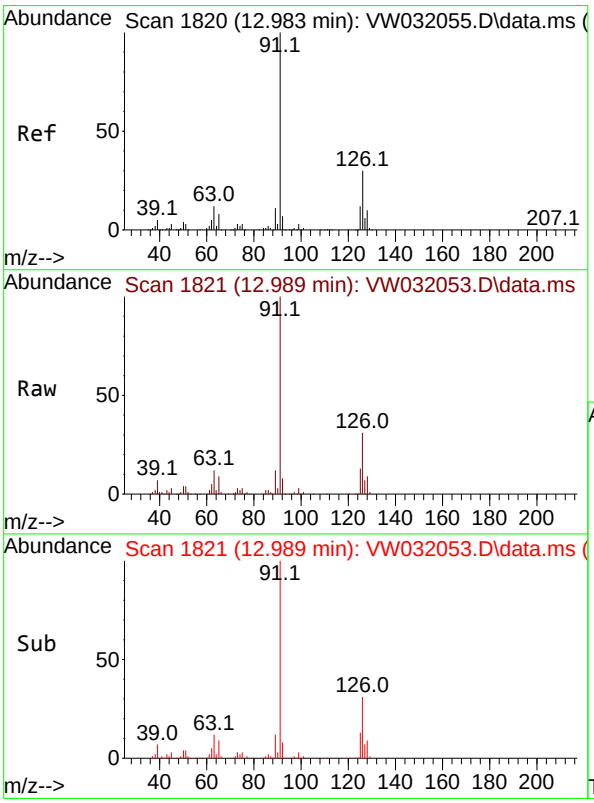
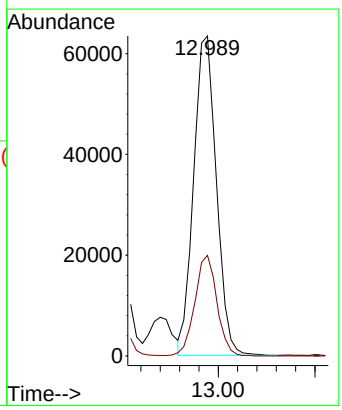


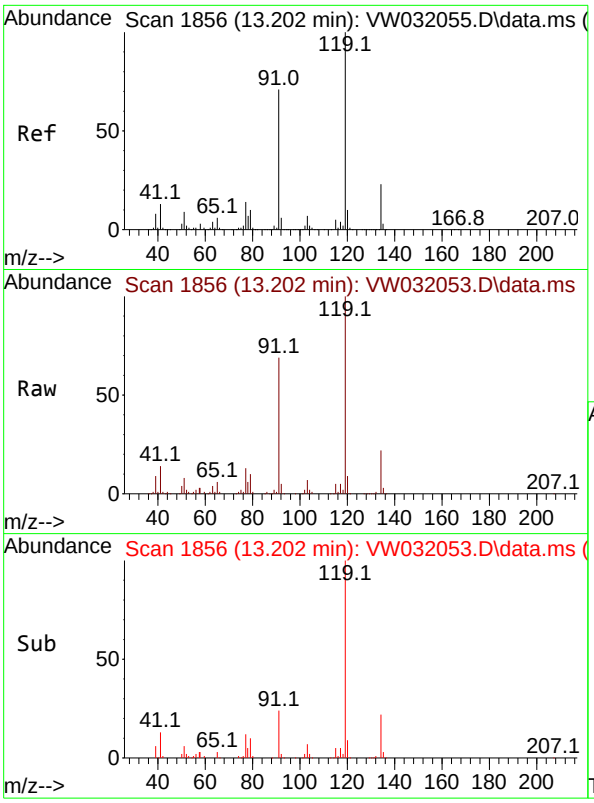


#82
4-Chlorotoluene
Concen: 10.103 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 103329

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.5	46.5

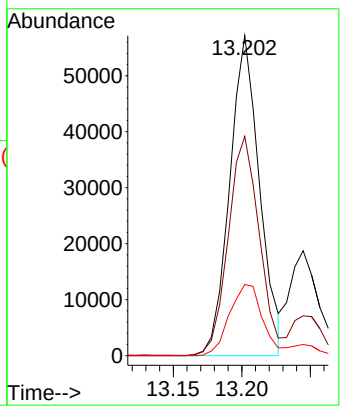




#83
tert-Butylbenzene
Concen: 9.729 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:119 Resp: 8684

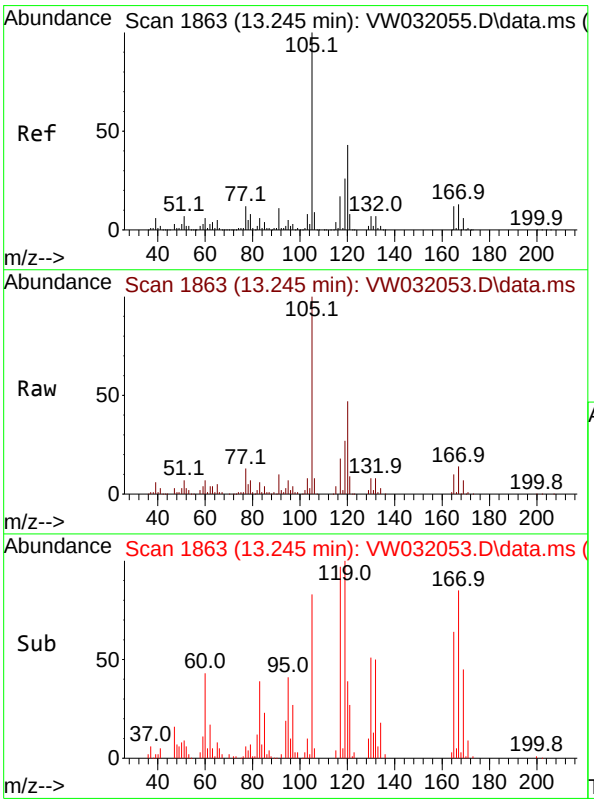
Ion	Ratio	Lower	Upper
119	100		
91	70.7	35.3	105.9
134	24.8	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

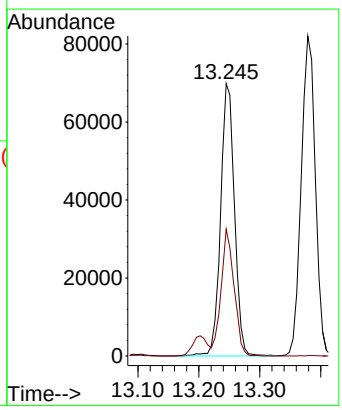
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

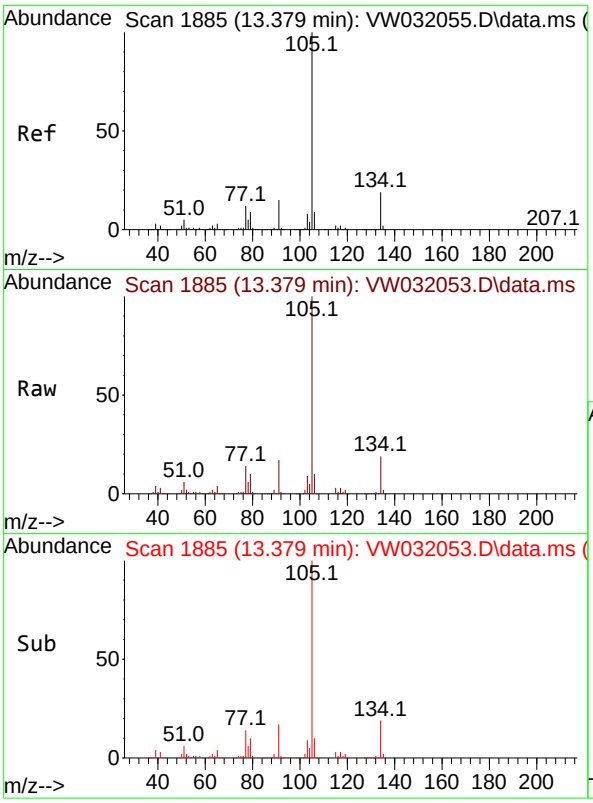


#84
1,2,4-Trimethylbenzene
Concen: 10.110 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

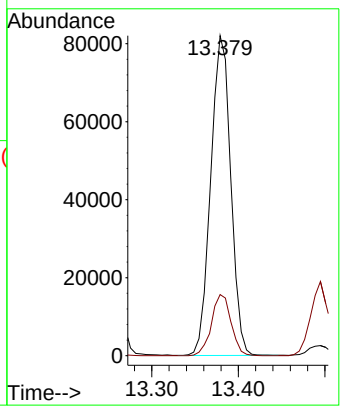
Tgt Ion:105 Resp: 13166

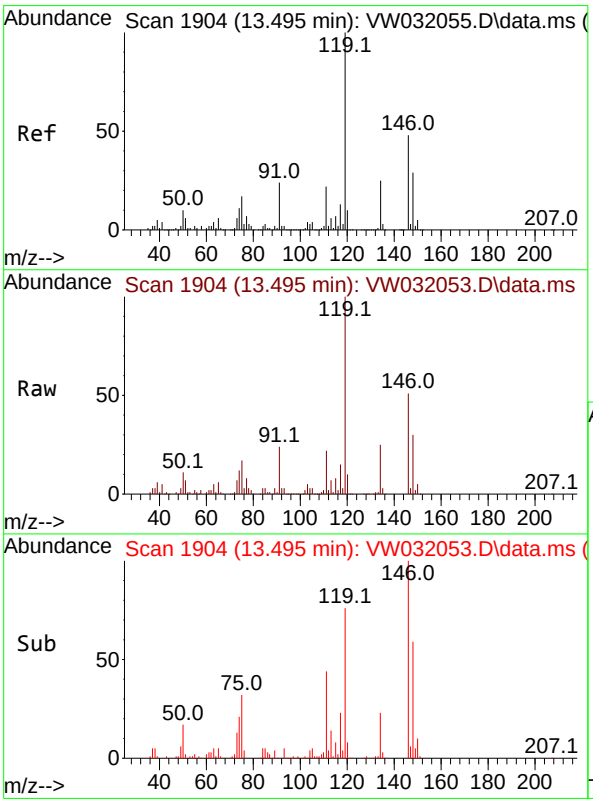
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

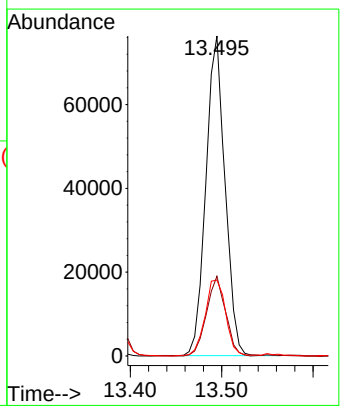


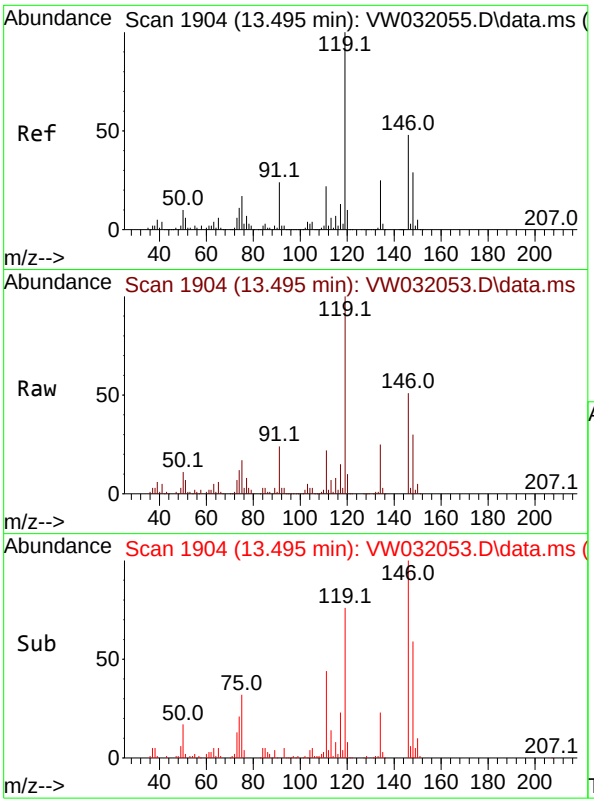


#86
p-Isopropyltoluene
Concen: 9.827 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

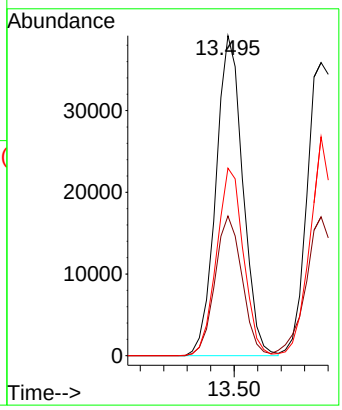




#87
1,3-Dichlorobenzene
Concen: 10.361 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 6238

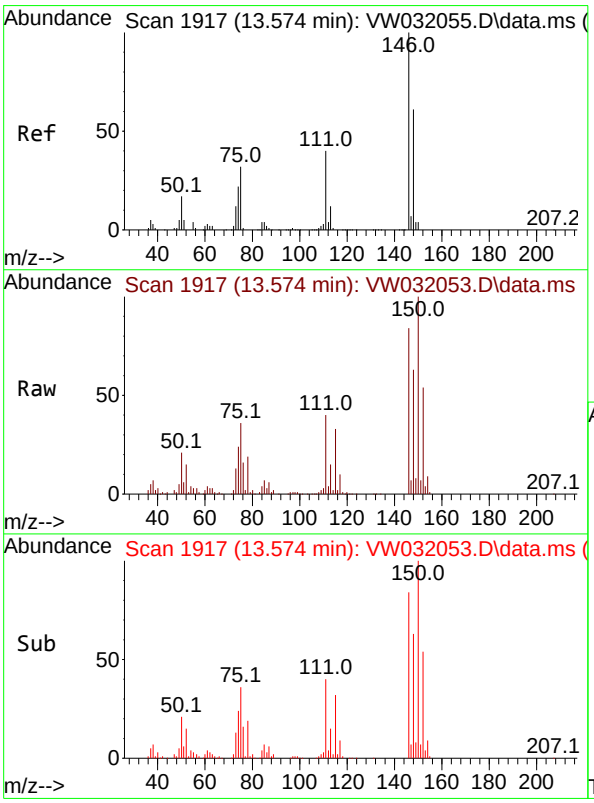
Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.2	63.6
148	58.5	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

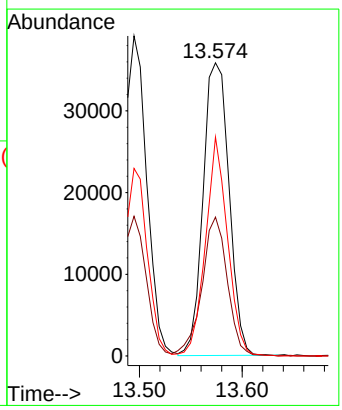
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

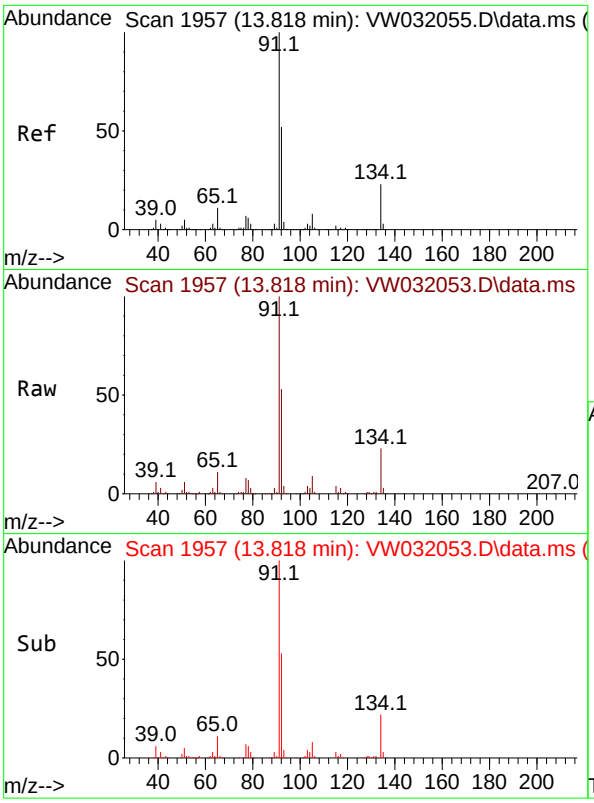


#88
1,4-Dichlorobenzene
Concen: 10.328 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

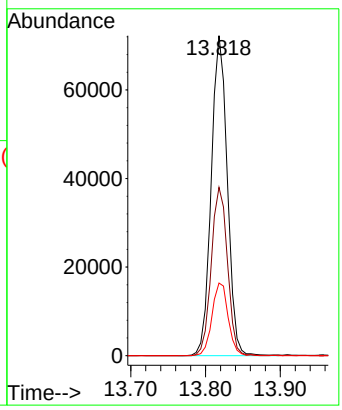




#89
n-Butylbenzene
Concen: 9.881 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 10800

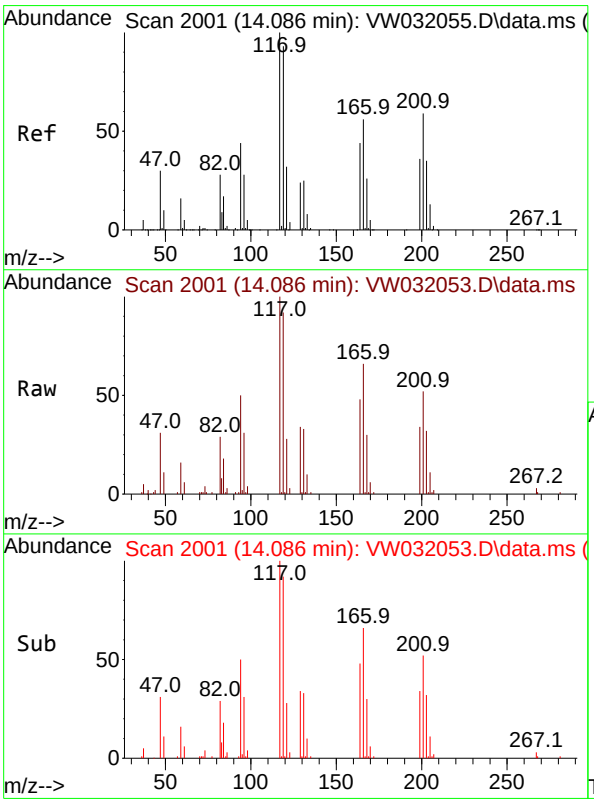
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.1
134	22.8	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

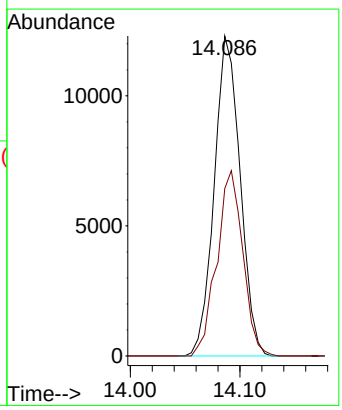
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

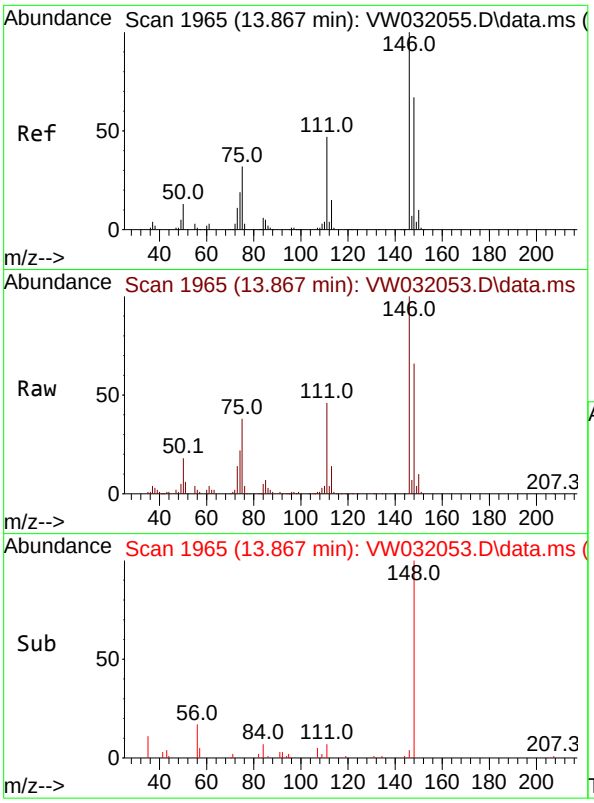


#90
Hexachloroethane
Concen: 9.805 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 20175

Ion	Ratio	Lower	Upper
117	100		
201	58.3	30.9	92.5

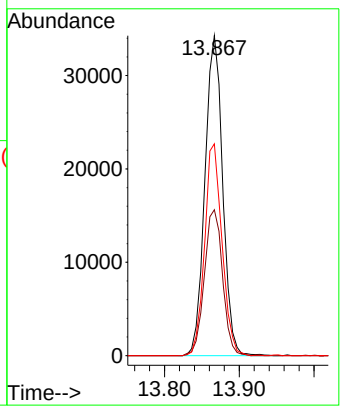




#91
1,2-Dichlorobenzene
Concen: 10.359 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 5650

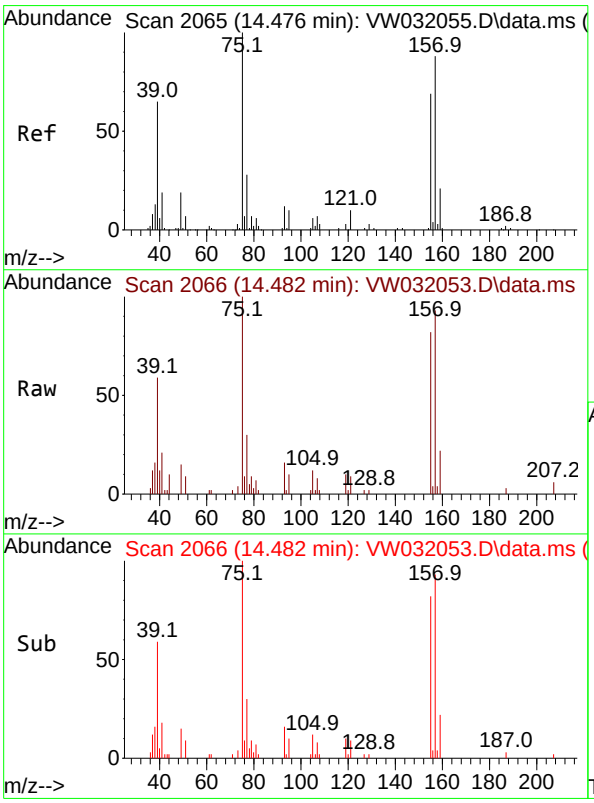
Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.1	69.3
148	64.9	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

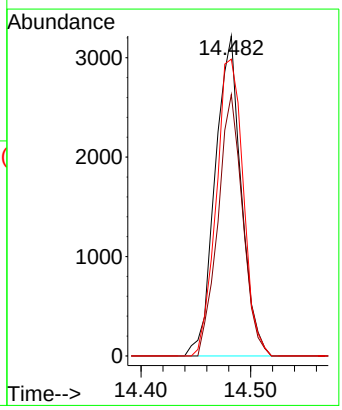
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

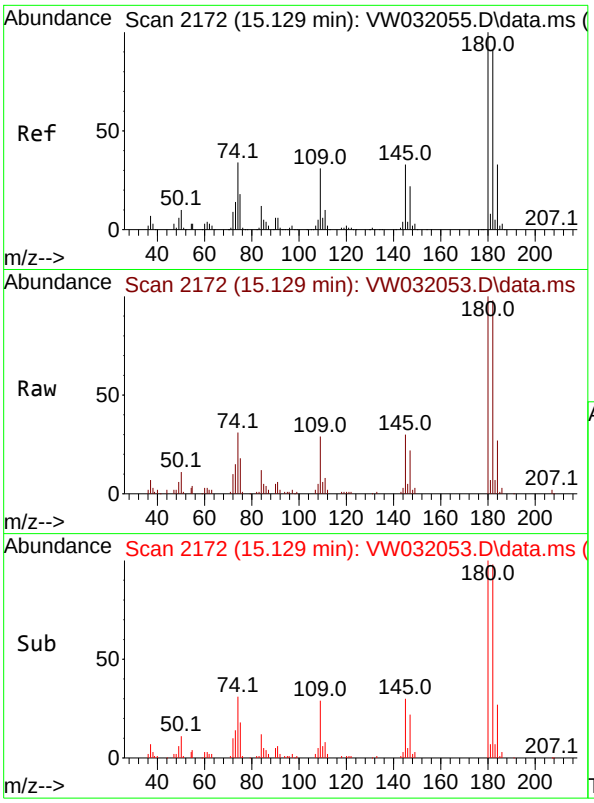


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.920 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

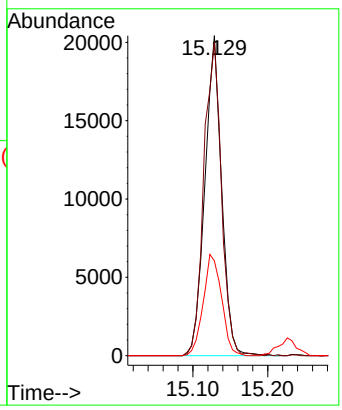




#93
1,2,4-Trichlorobenzene
Concen: 9.751 ug/l
RT: 15.129 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:180 Resp: 3181

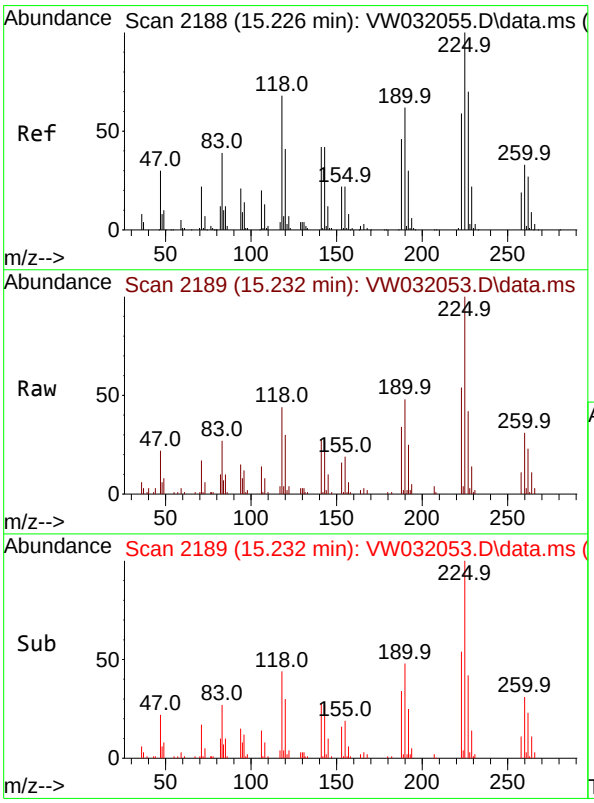
Ion	Ratio	Lower	Upper
180	100		
182	102.4	49.0	147.0
145	34.6	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

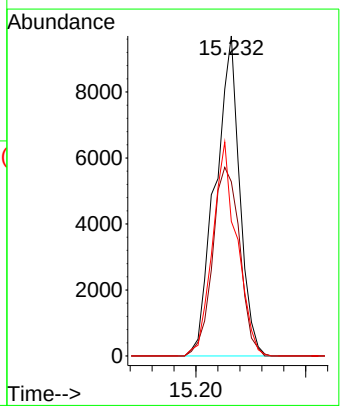
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

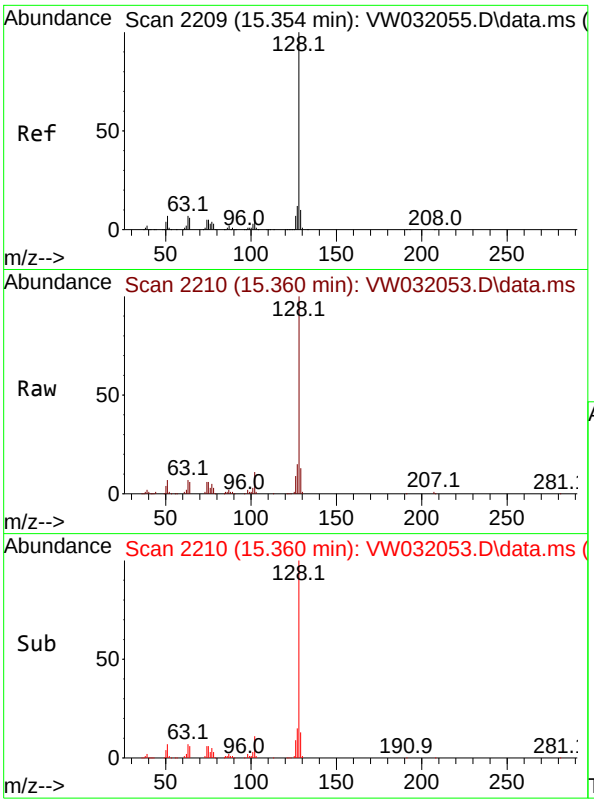


#94
Hexachlorobutadiene
Concen: 10.276 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

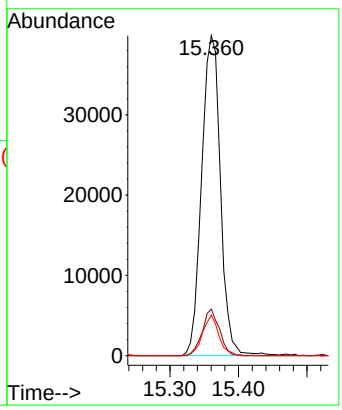




#95
Naphthalene
Concen: 9.542 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:128 Resp: 7628

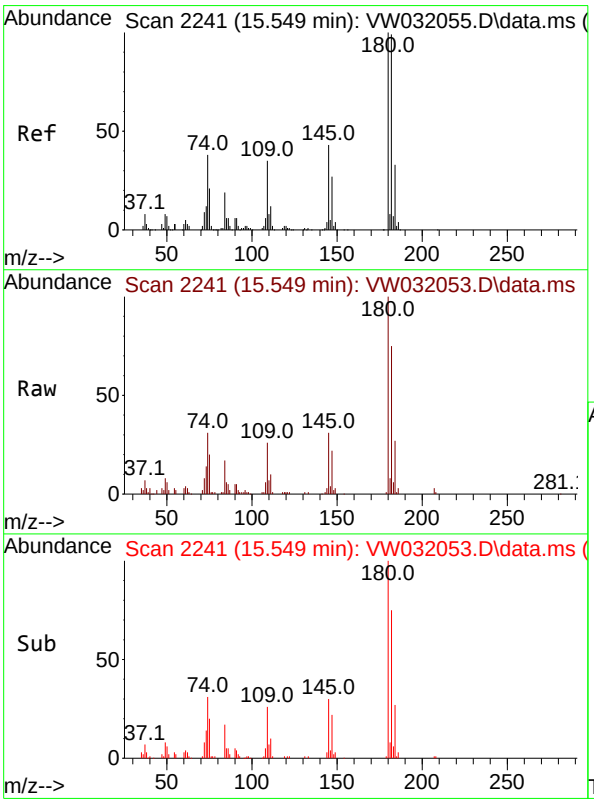
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.9	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

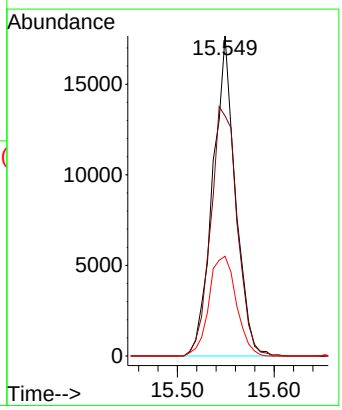
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#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



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

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

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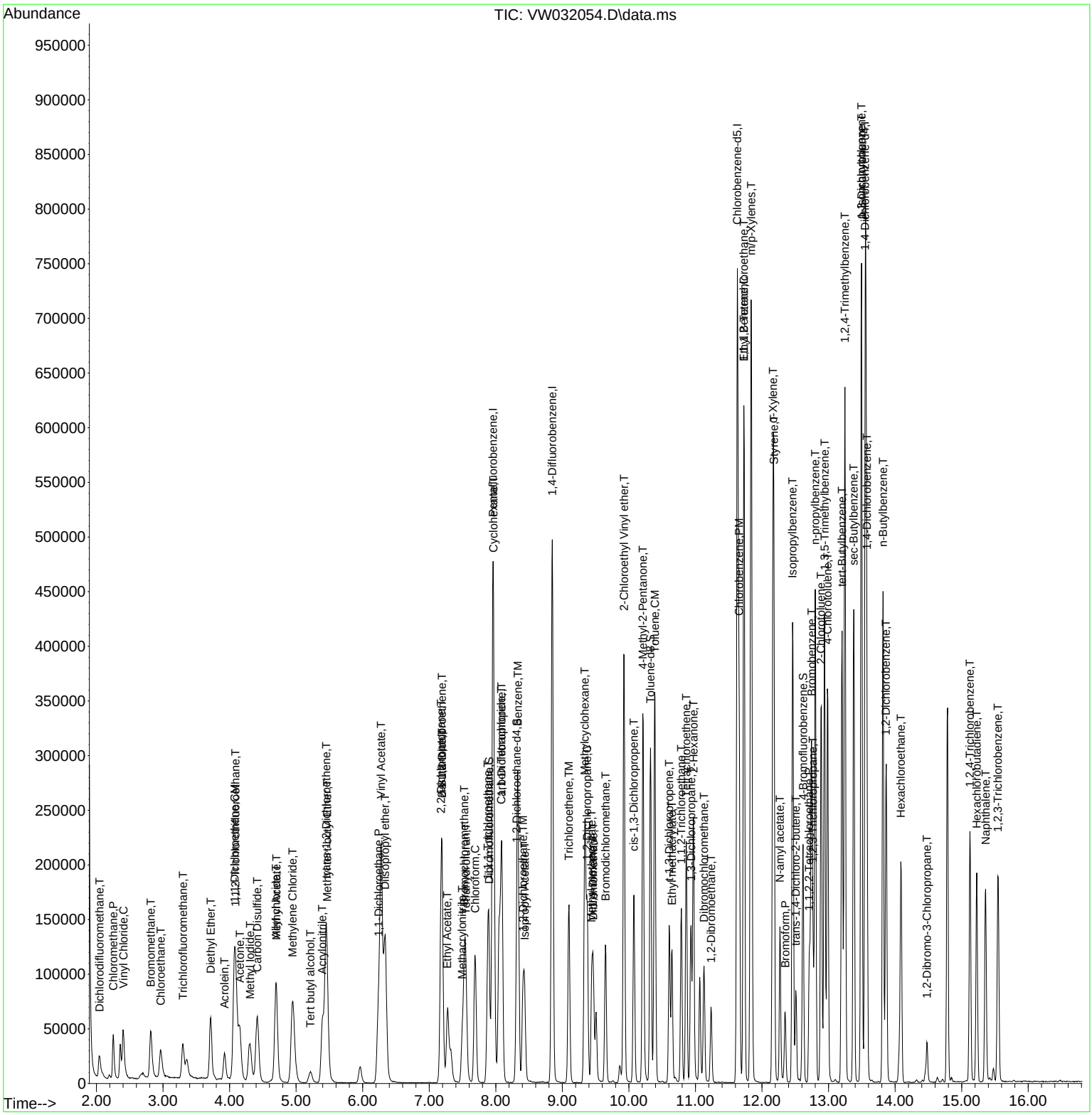
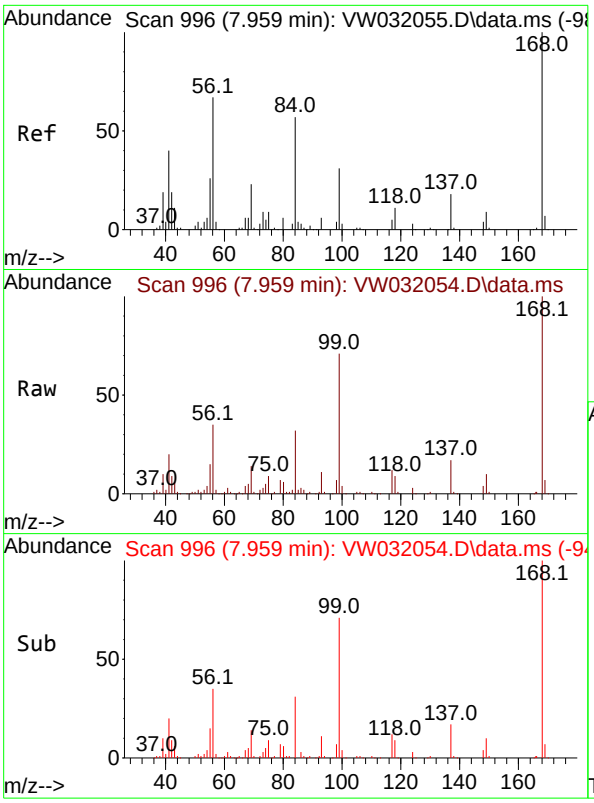
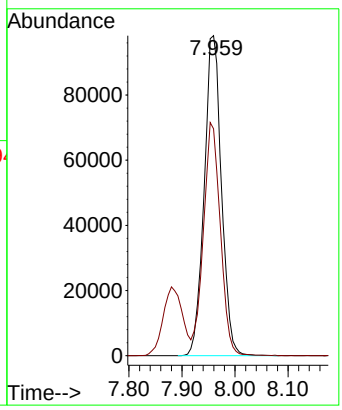




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:168 Resp: 22183

Ion	Ratio	Lower	Upper
168	100		
99	70.9	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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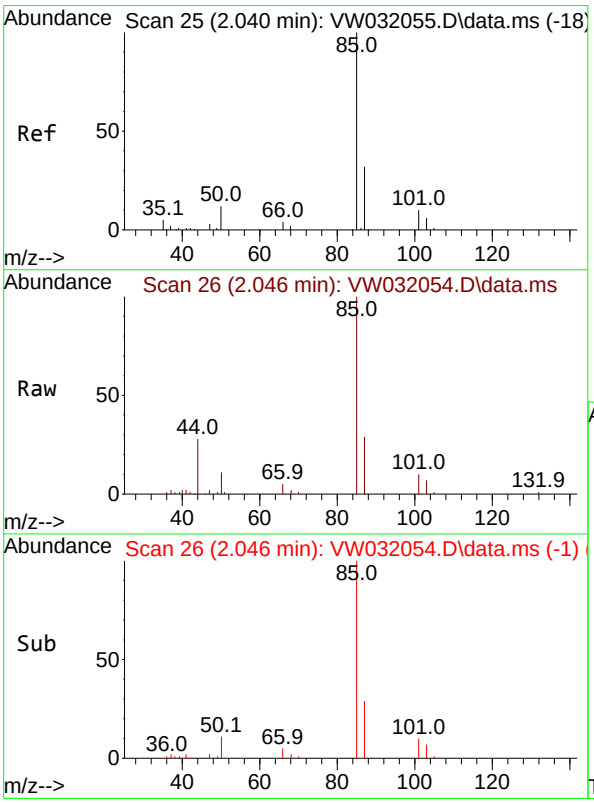
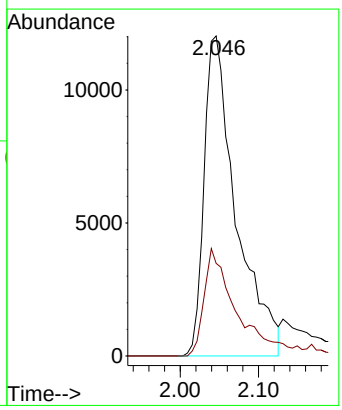
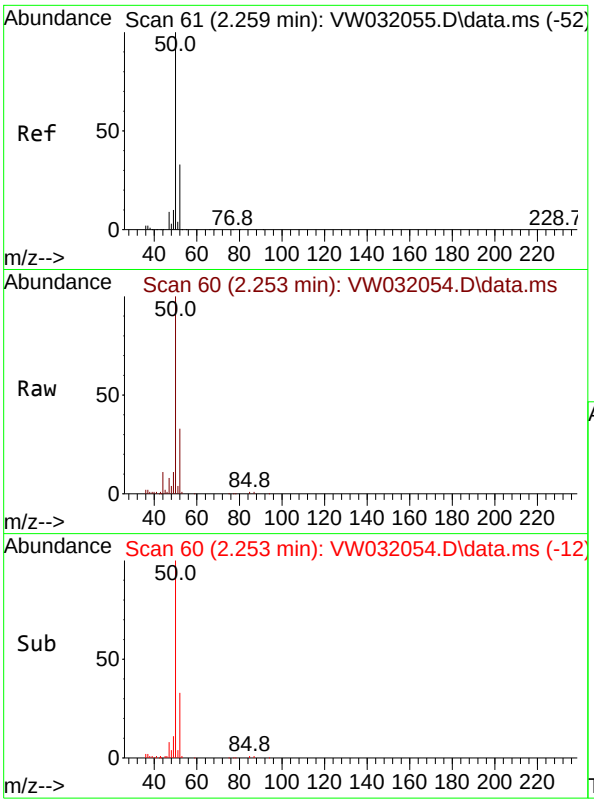


#2
Dichlorodifluoromethane
Concen: 21.537 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 85 Resp: 34171

Ion	Ratio	Lower	Upper
85	100		
87	29.0	16.2	48.6

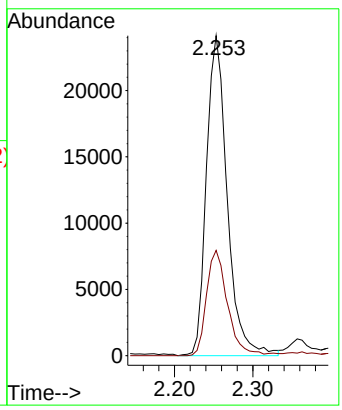




#3
Chloromethane
Concen: 20.821 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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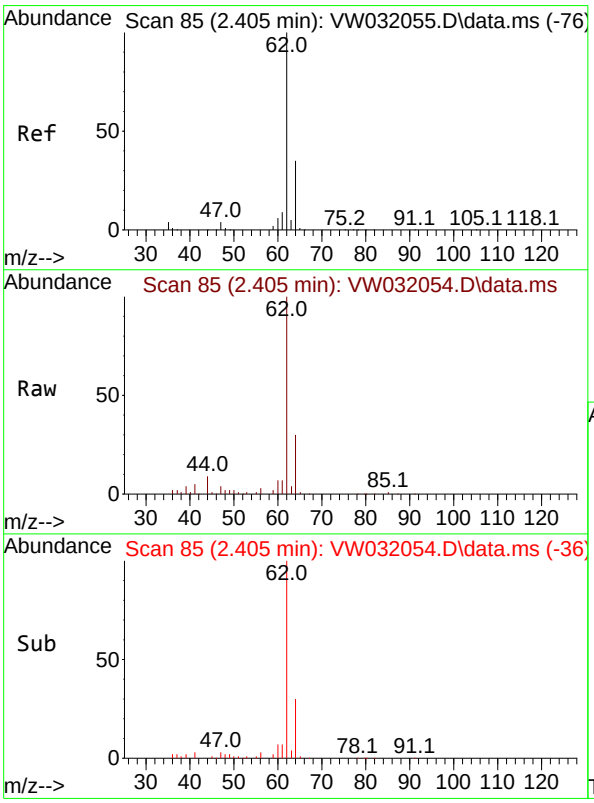
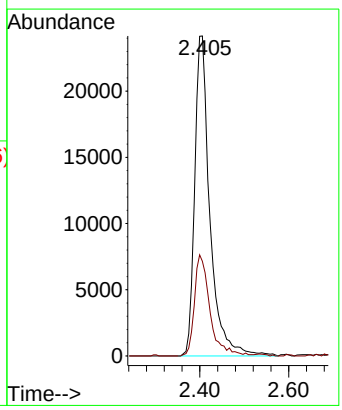
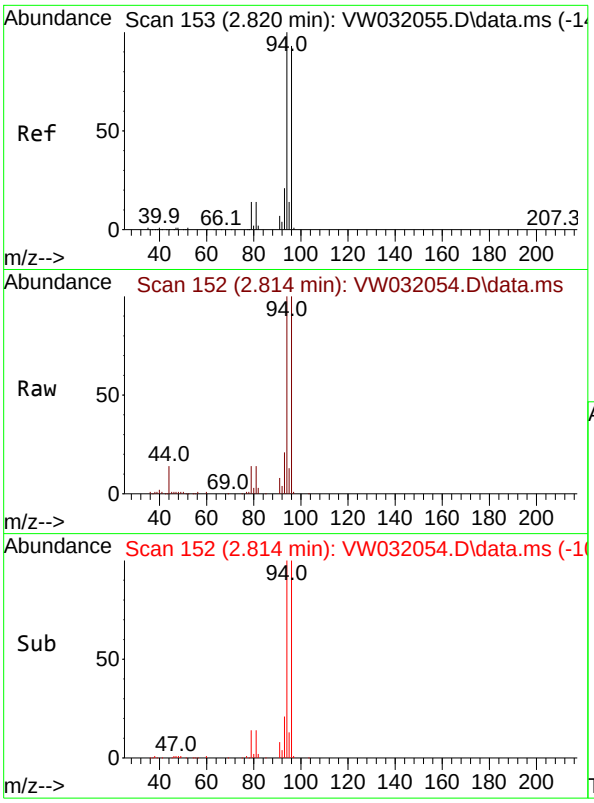


#4
Vinyl Chloride
Concen: 22.162 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 57293

Ion	Ratio	Lower	Upper
62	100		
64	29.6	27.8	41.6

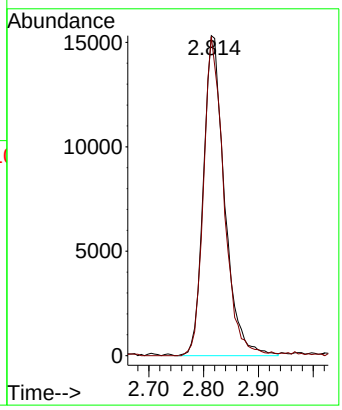




#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 94 Resp: 4100

Ion	Ratio	Lower	Upper
94	100		
96	99.7	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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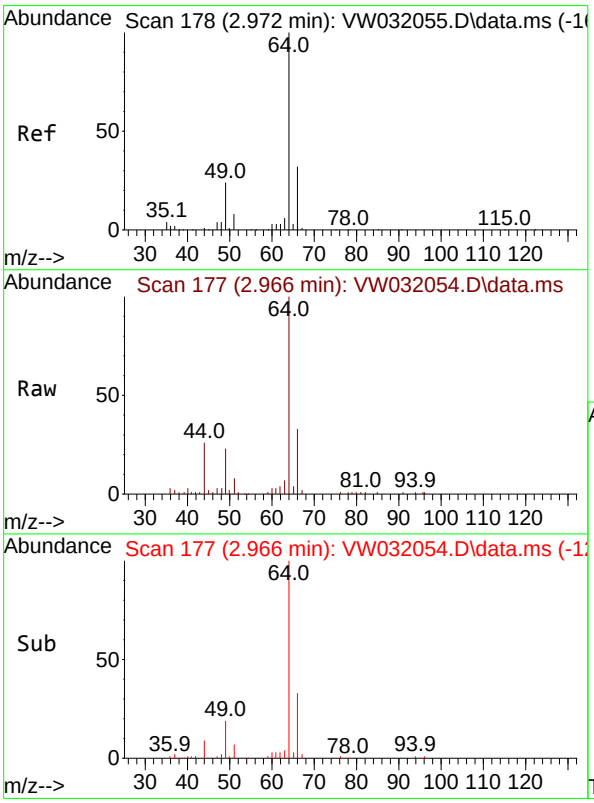
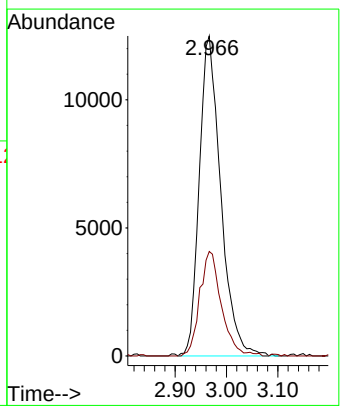
Supervised By :Semsettin Yesilyurt 08/12/2025

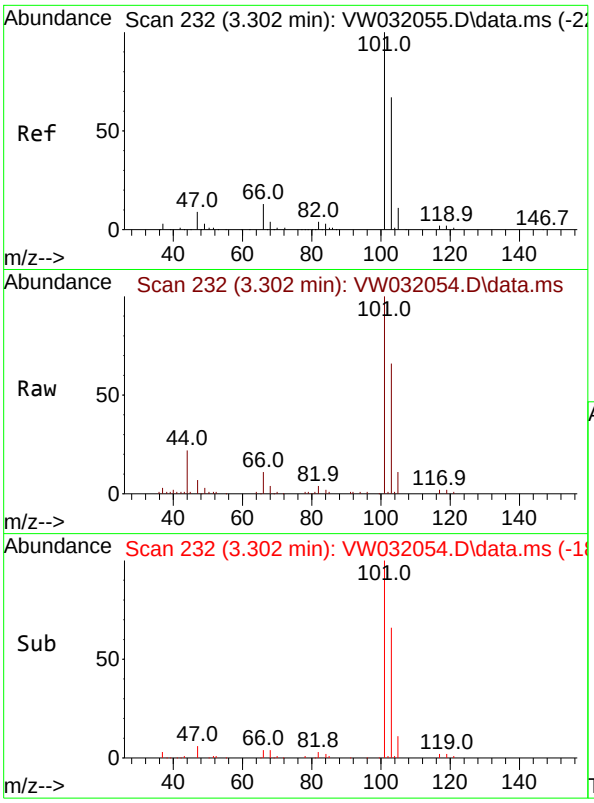


#6
Chloroethane
Concen: 21.173 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 64 Resp: 36220

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0

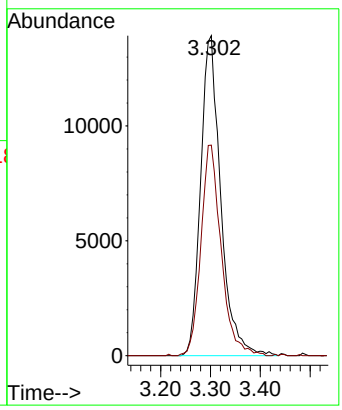




#7
Trichlorofluoromethane
Concen: 18.821 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 APPROVED

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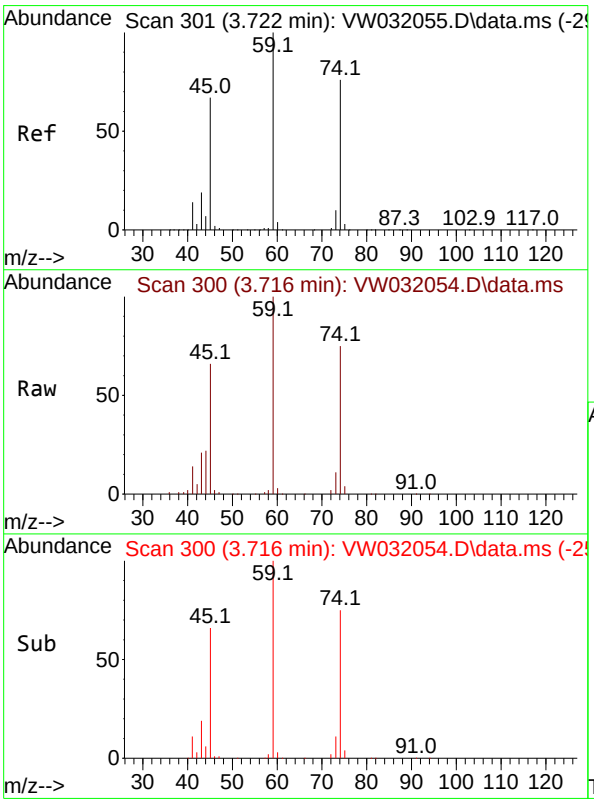
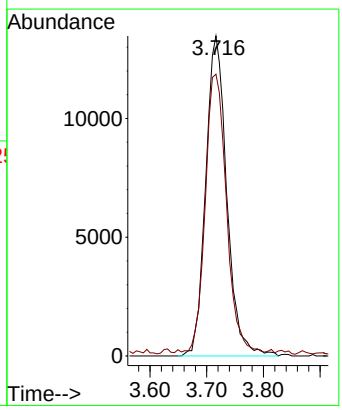
Supervised By :Semsettin Yesilyurt 08/12/2025

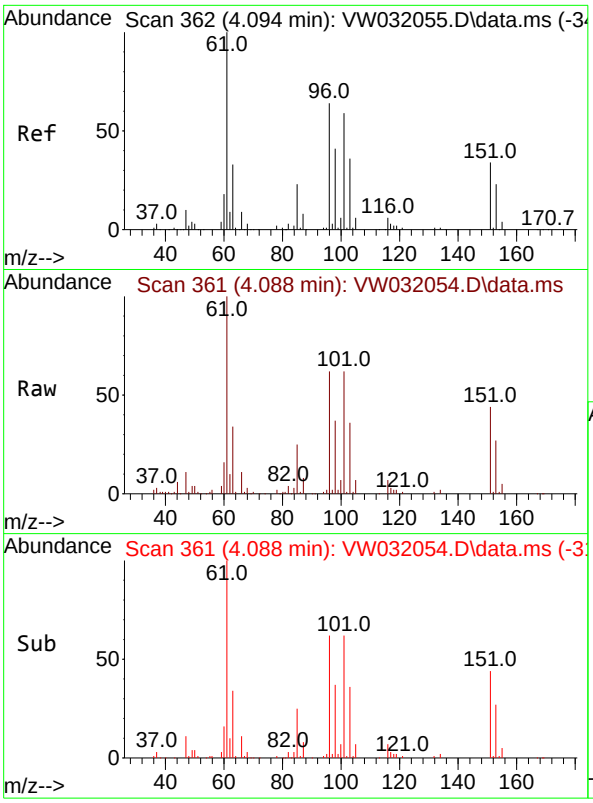


#8
Diethyl Ether
Concen: 20.489 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 74 Resp: 34764

Ion	Ratio	Lower	Upper
74	100		
45	86.6	45.4	136.2

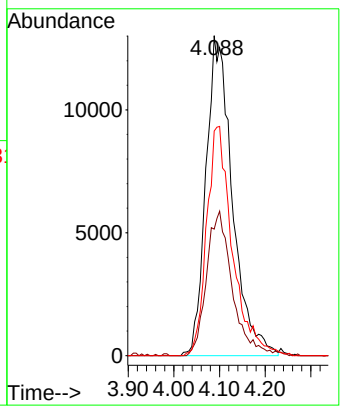




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.351 ug/l
RT: 4.088 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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Reviewed By :Mahesh Dadoda 08/12/2025
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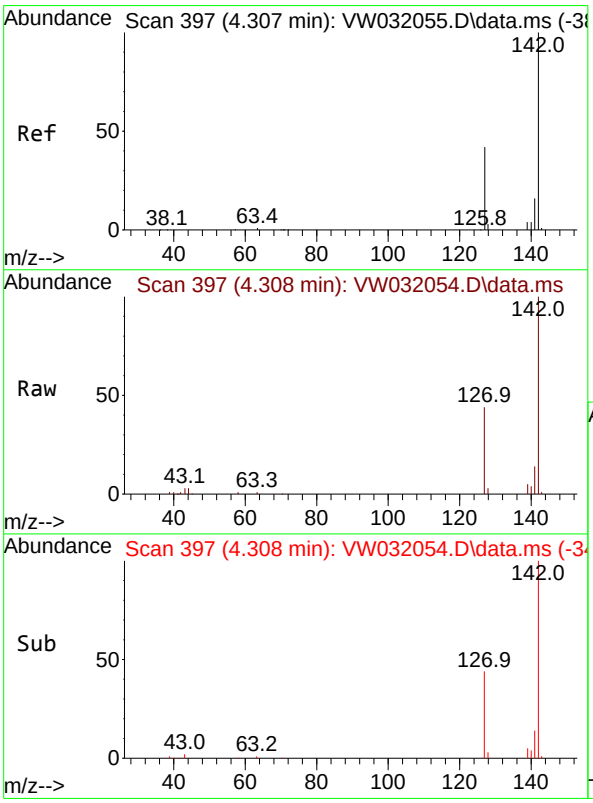
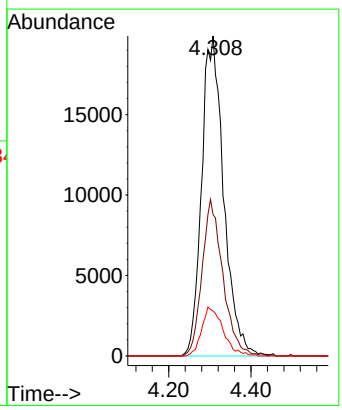
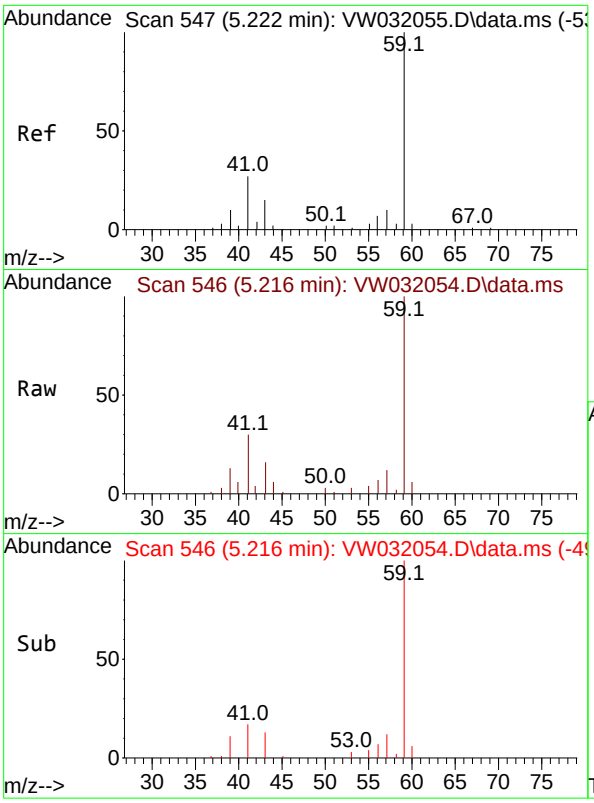


#10
Methyl Iodide
Concen: 21.419 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

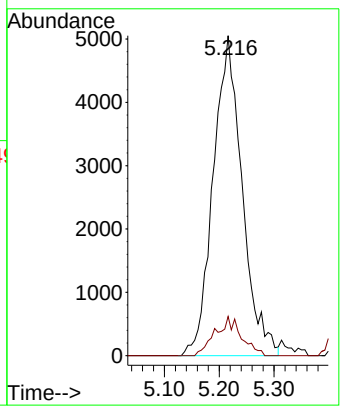




#11
Tert butyl alcohol
Concen: 89.237 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 APPROVED

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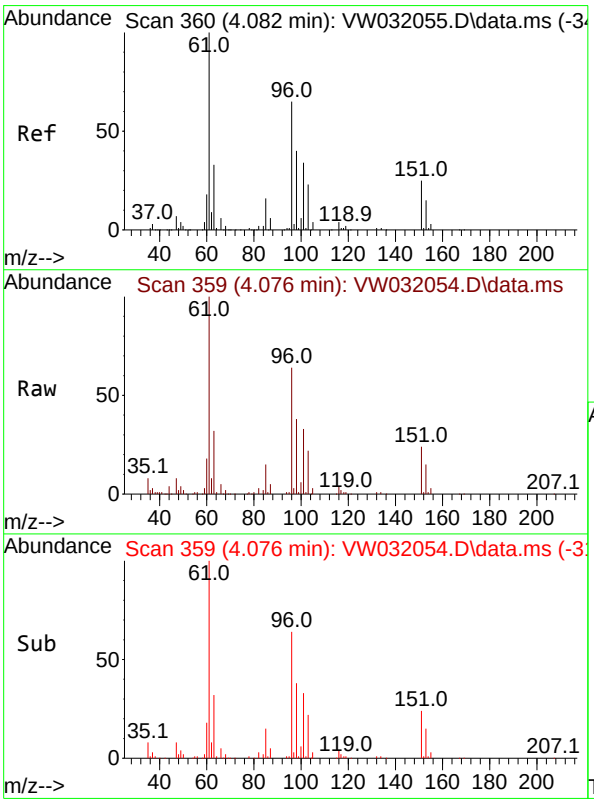
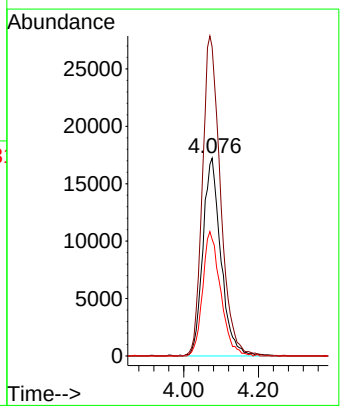
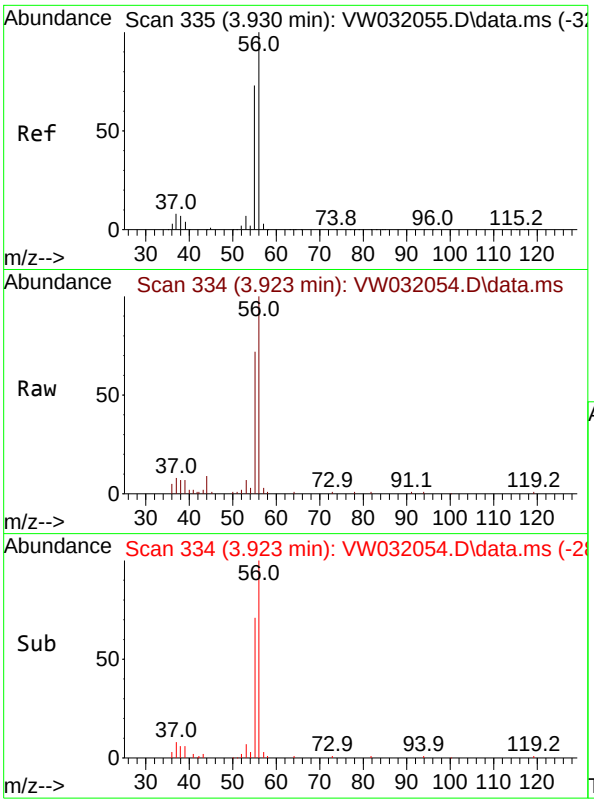


#12
1,1-Dichloroethene
Concen: 21.419 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 APPROVED

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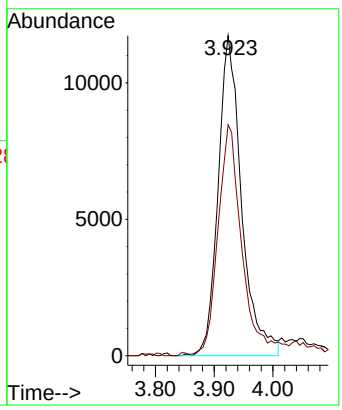
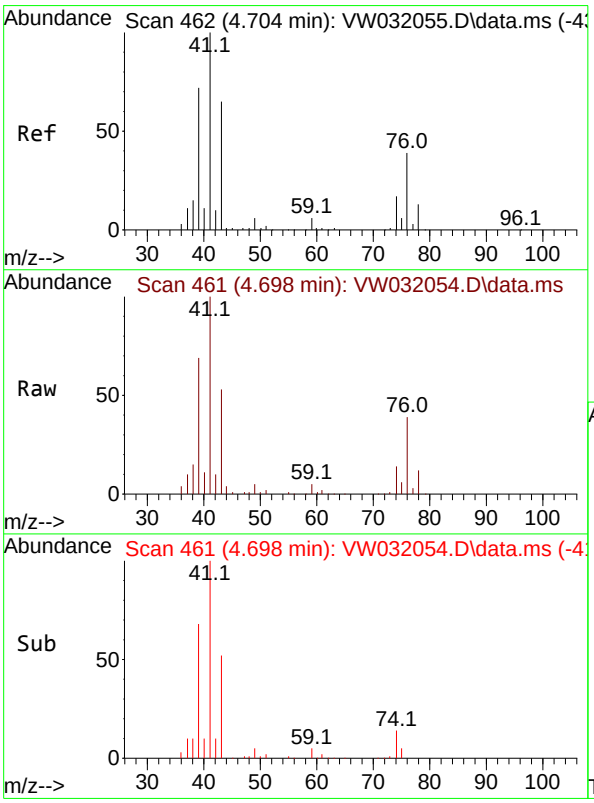
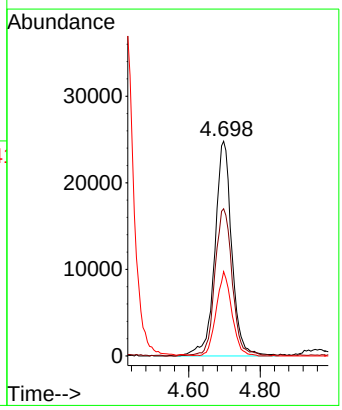


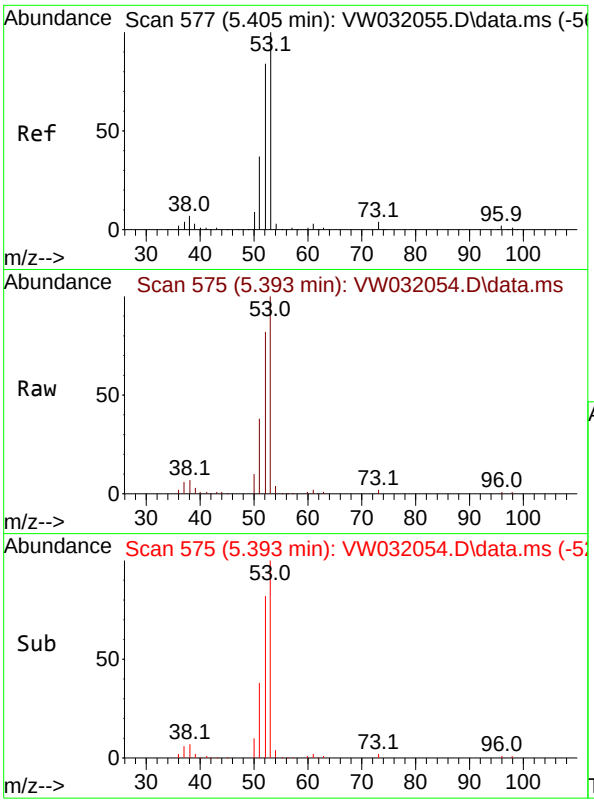


#14
Allyl chloride
Concen: 20.804 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

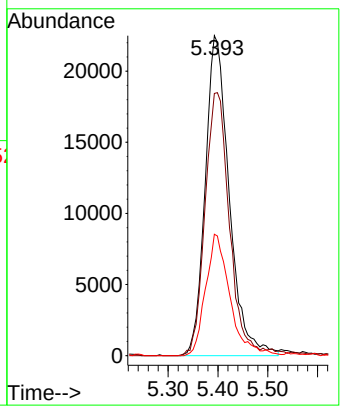




#15
Acrylonitrile
Concen: 93.190 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

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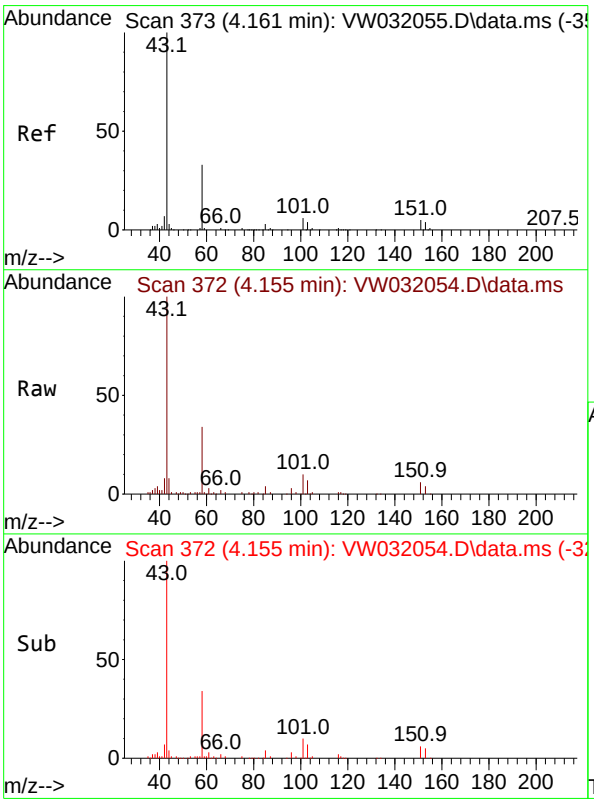
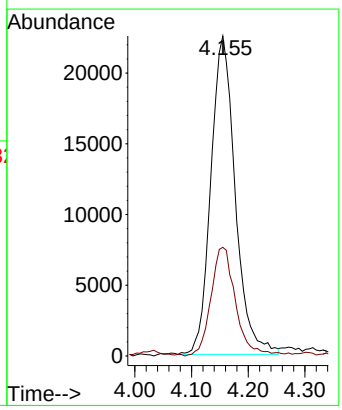
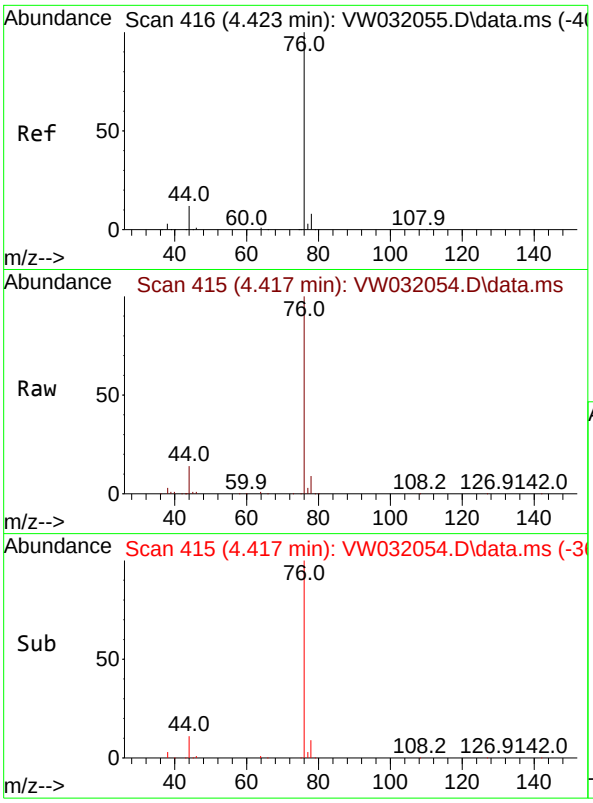


#16
Acetone
Concen: 90.379 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 67134

Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.6	39.8

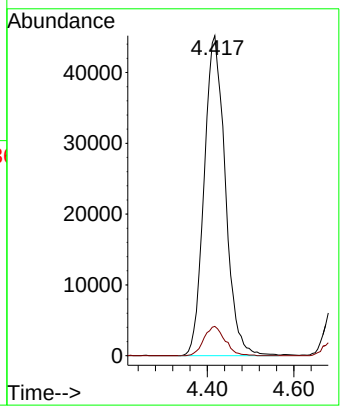




#17
Carbon Disulfide
Concen: 21.222 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 76 Resp: 15324

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.4	9.6



Instrument :
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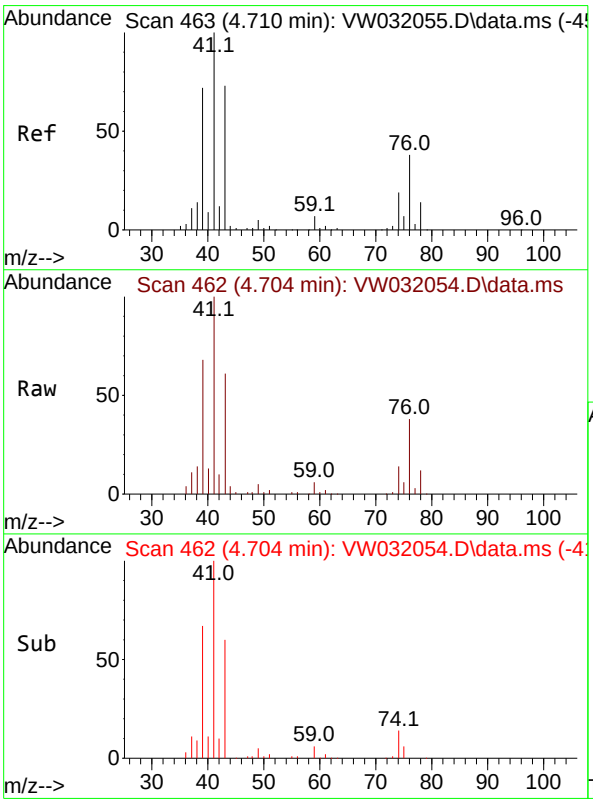
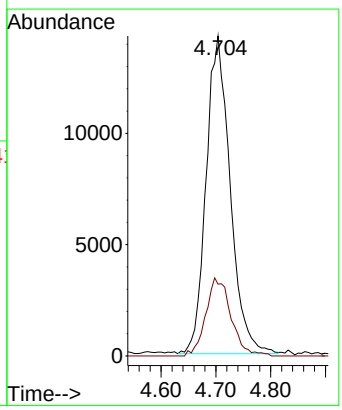
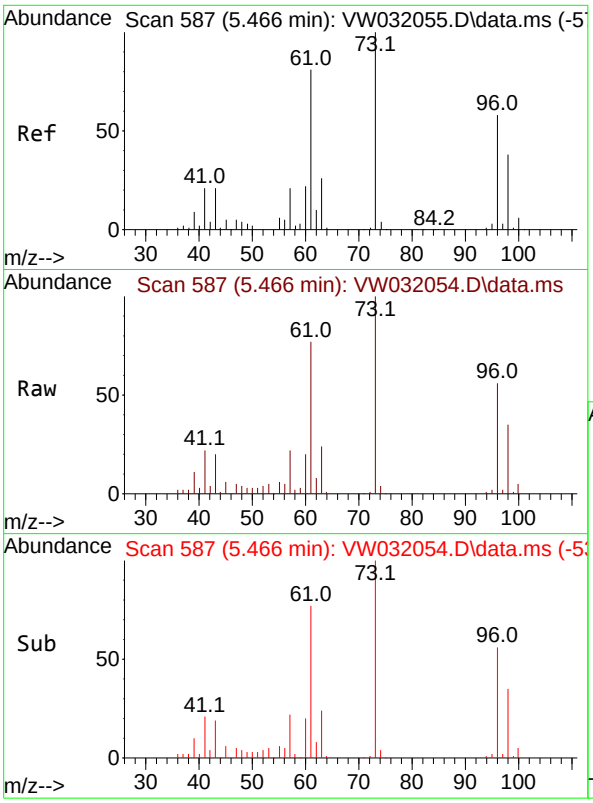


#18
Methyl Acetate
Concen: 18.522 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
VSTDICC020

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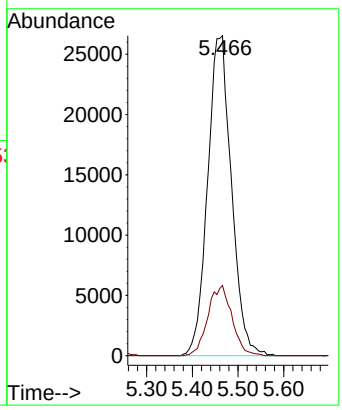
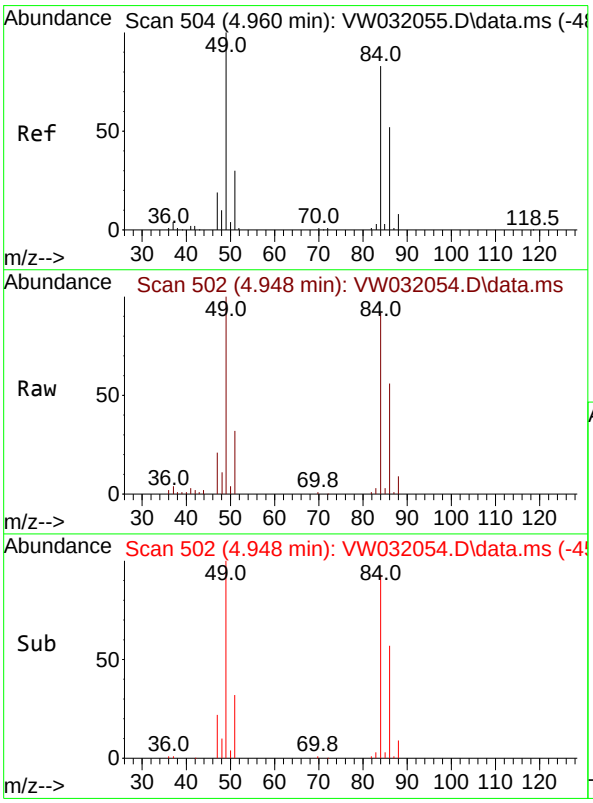
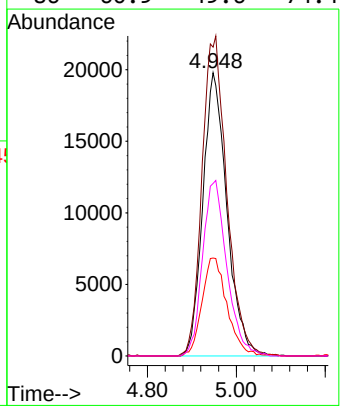


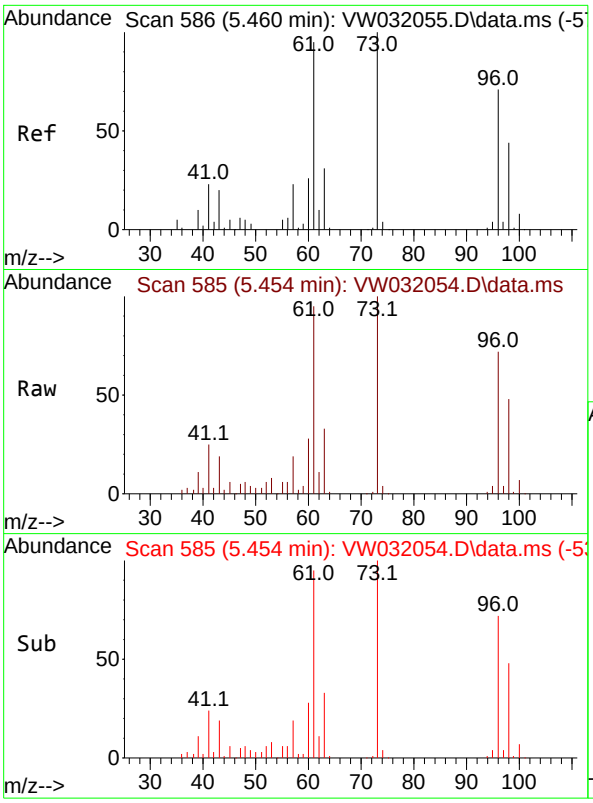


#20
Methylene Chloride
Concen: 21.706 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

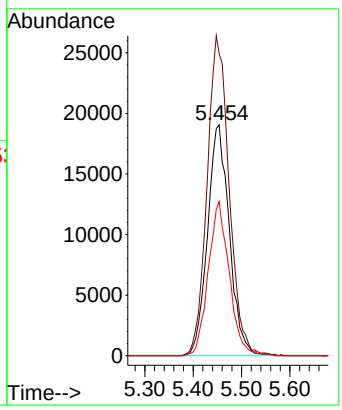




#21
trans-1,2-Dichloroethene
Concen: 20.917 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
MSVOA_W
ClientSampleId :
VSTDICC020

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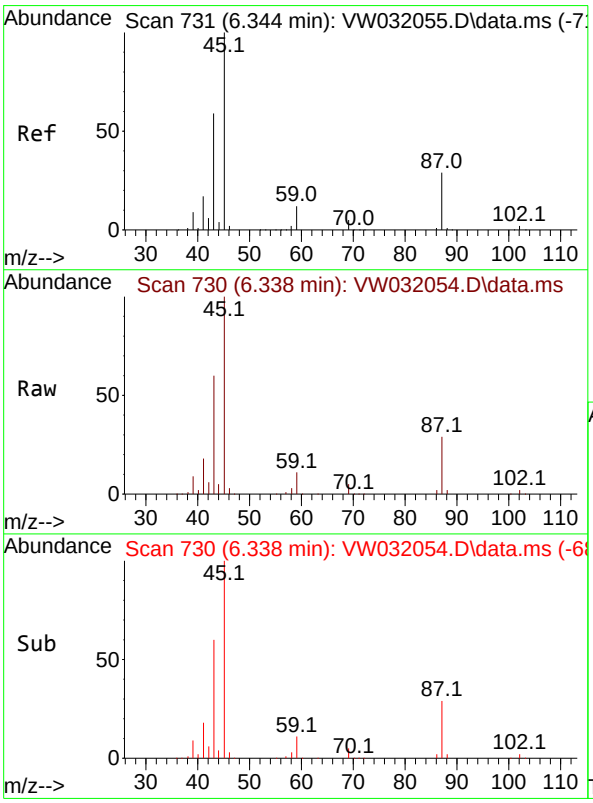
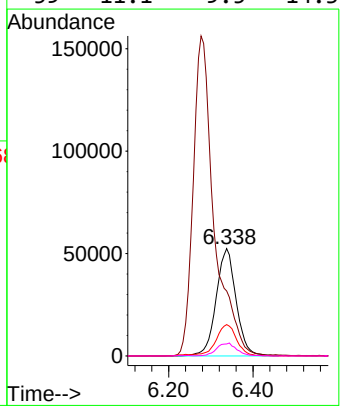
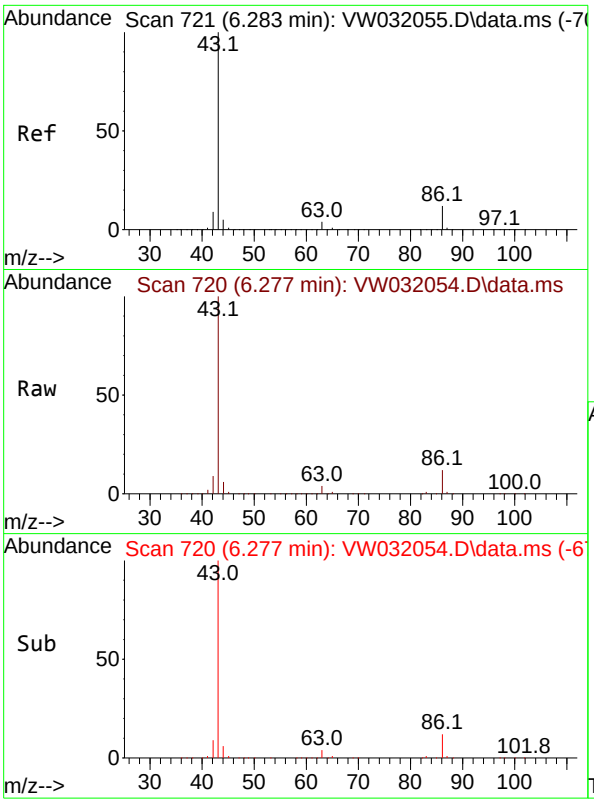


#22
Diisopropyl ether
Concen: 20.846 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
VSTDICC020

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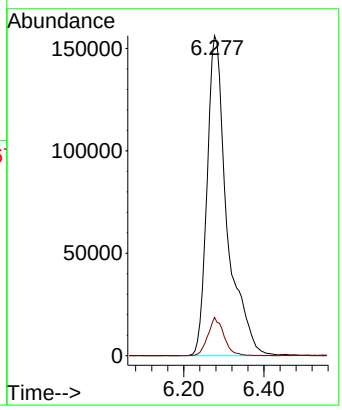
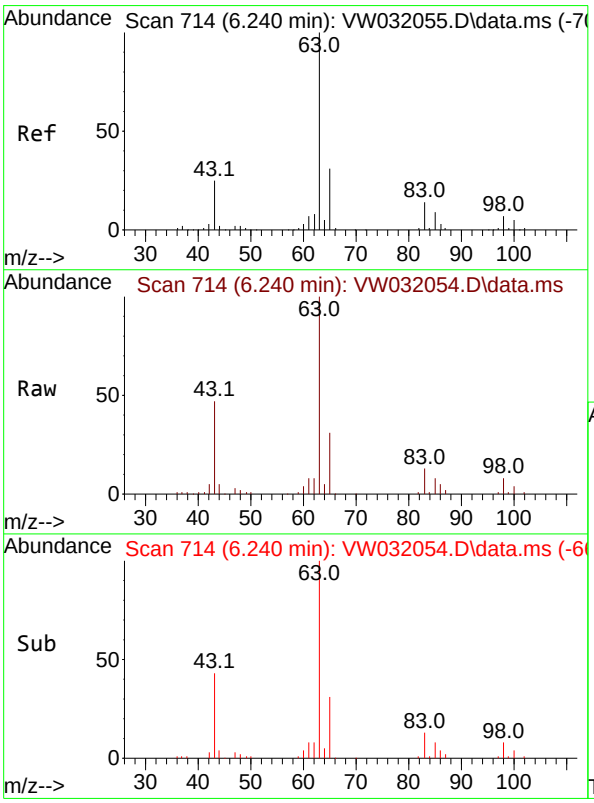
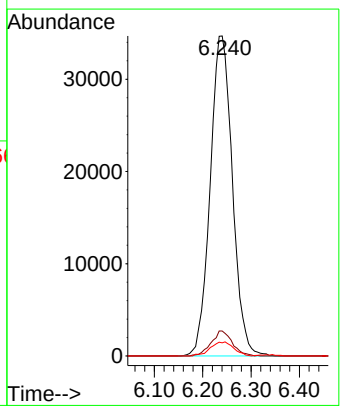


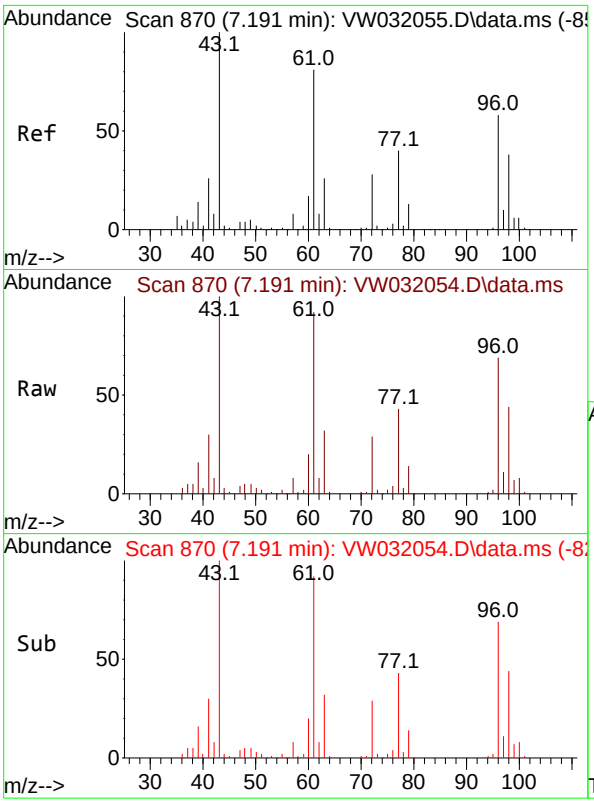


#24
1,1-Dichloroethane
Concen: 21.016 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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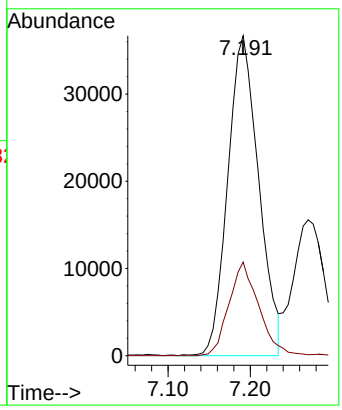
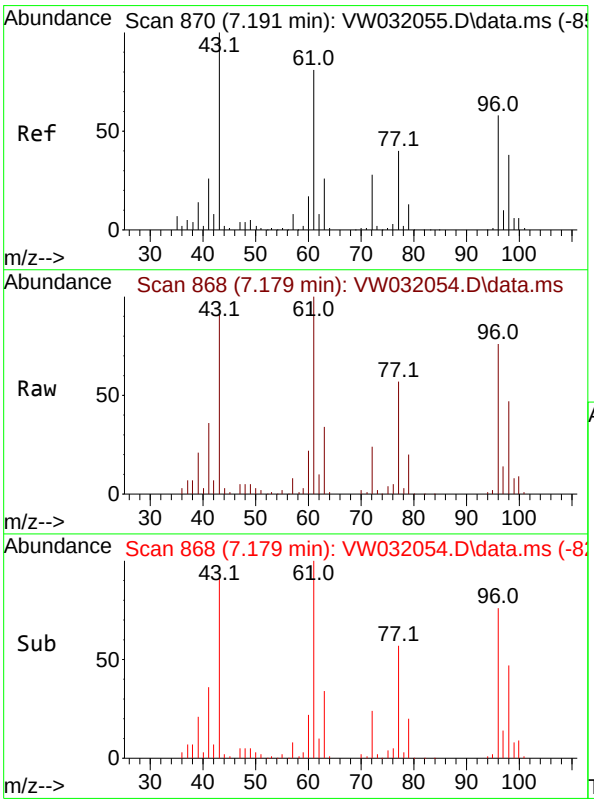
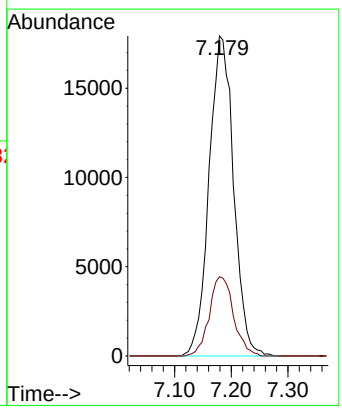


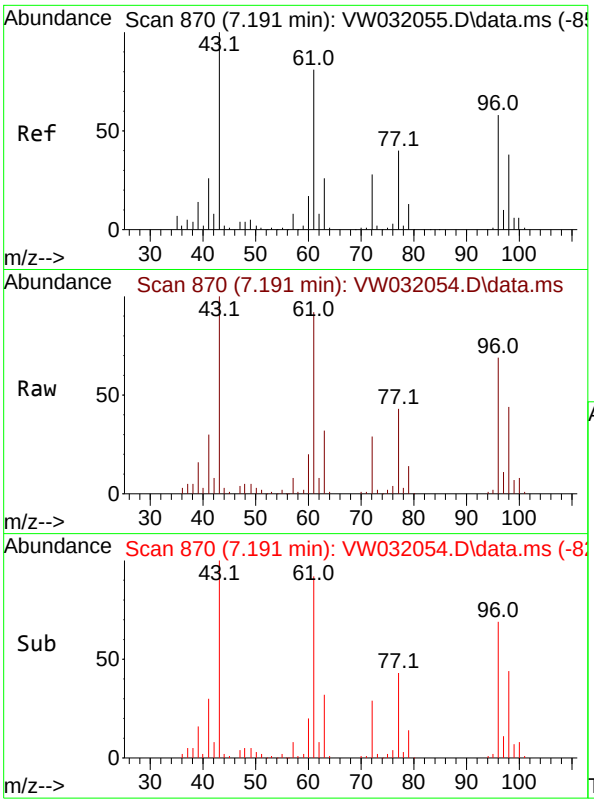


#26
2,2-Dichloropropane
Concen: 20.327 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 77 Resp: 53780

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9

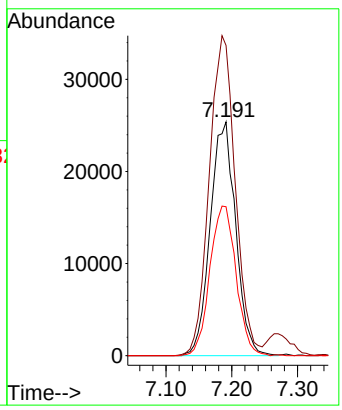




#27
cis-1,2-Dichloroethene
Concen: 20.540 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
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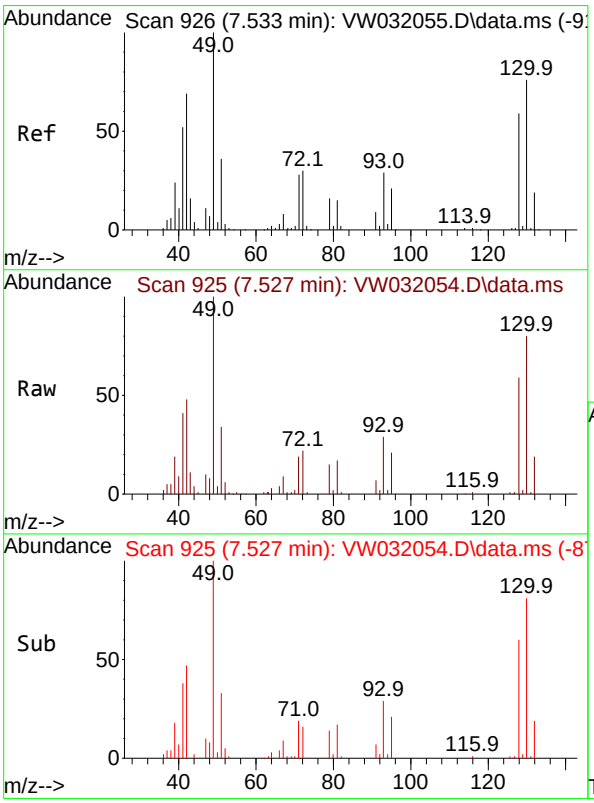
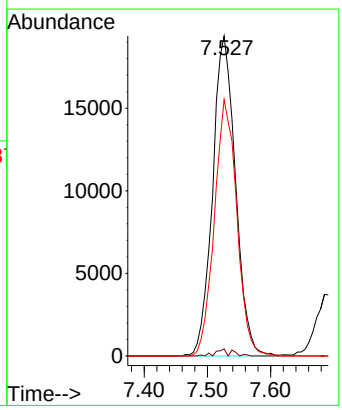
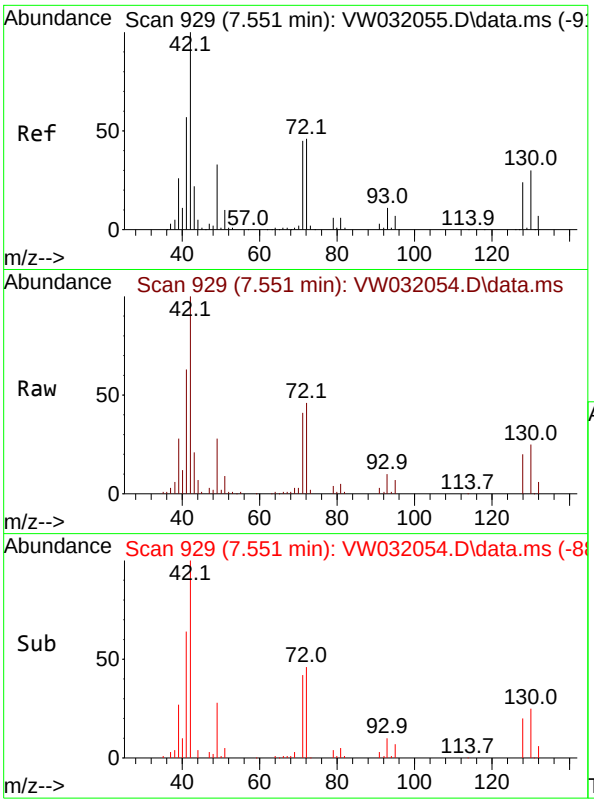


#28
Bromochloromethane
Concen: 20.298 ug/l
RT: 7.527 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

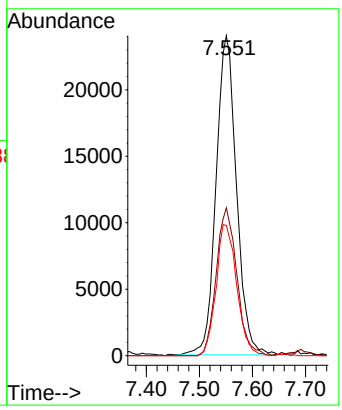




#29
Tetrahydrofuran
Concen: 92.379 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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ClientSampleId :
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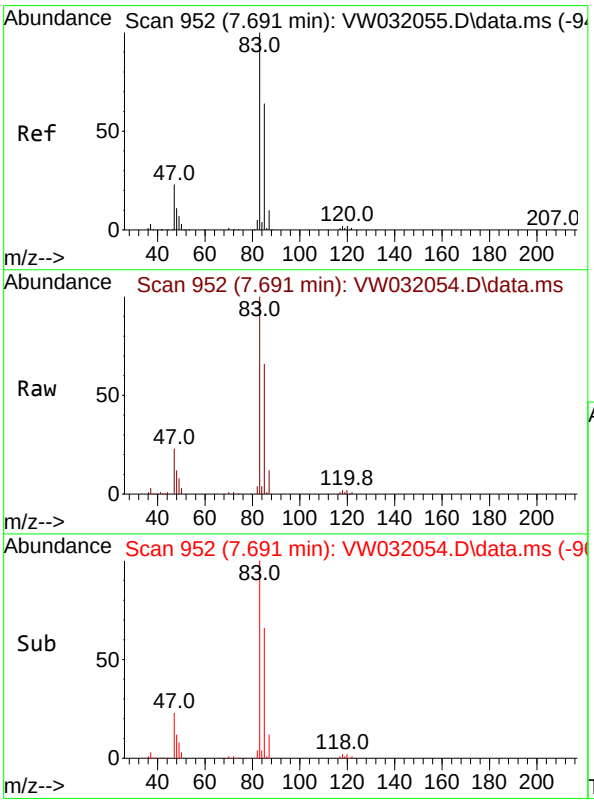
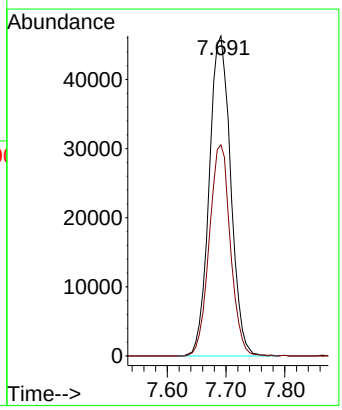
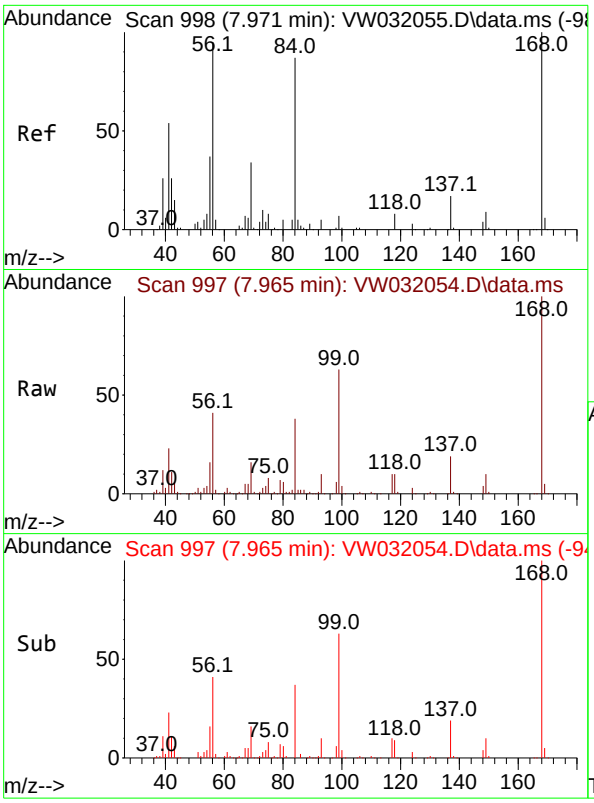


#30
Chloroform
Concen: 21.011 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 117474

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.0	76.4

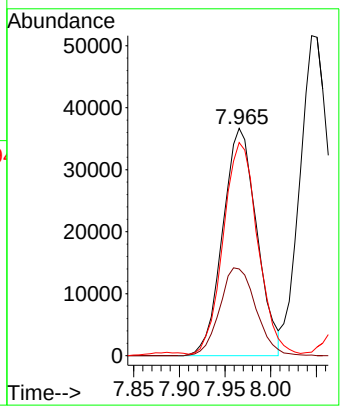




#31
Cyclohexane
Concen: 20.833 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
MSVOA_W
ClientSampleId :
VSTDICC020

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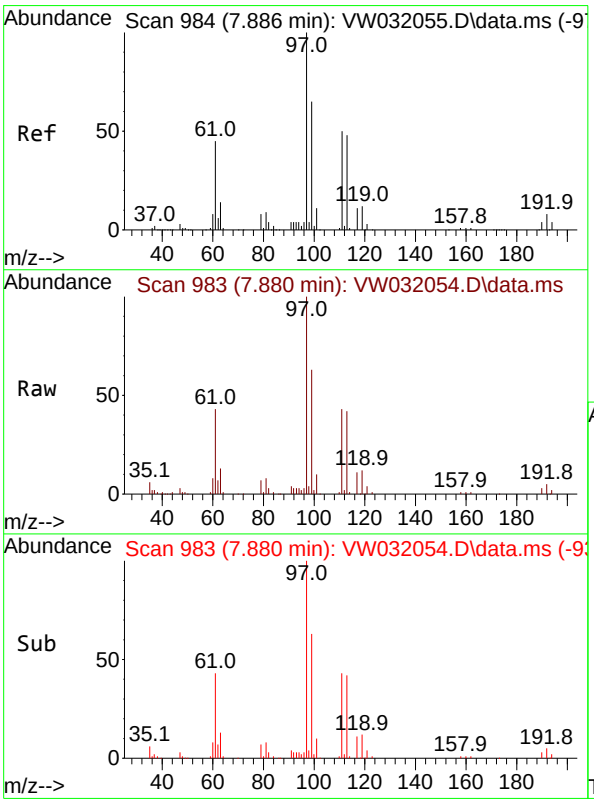
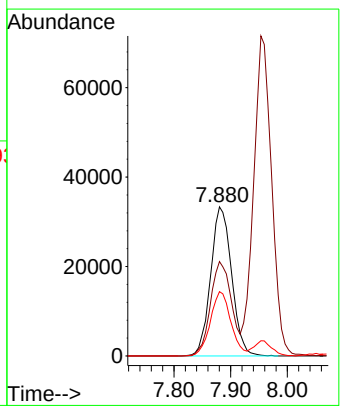
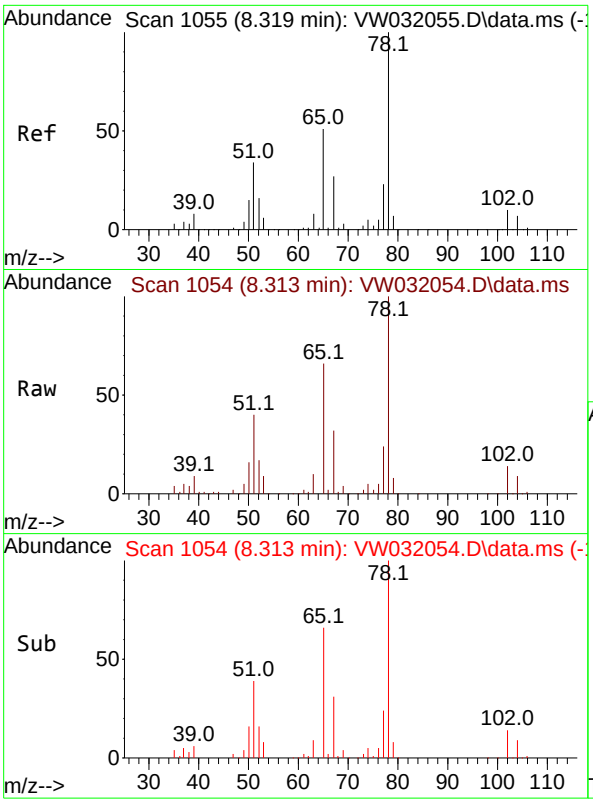


#32
1,1,1-Trichloroethane
Concen: 21.078 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

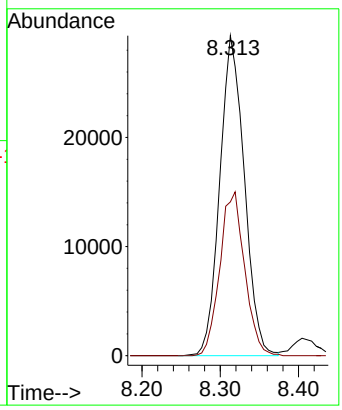




#33
1,2-Dichloroethane-d4
Concen: 19.904 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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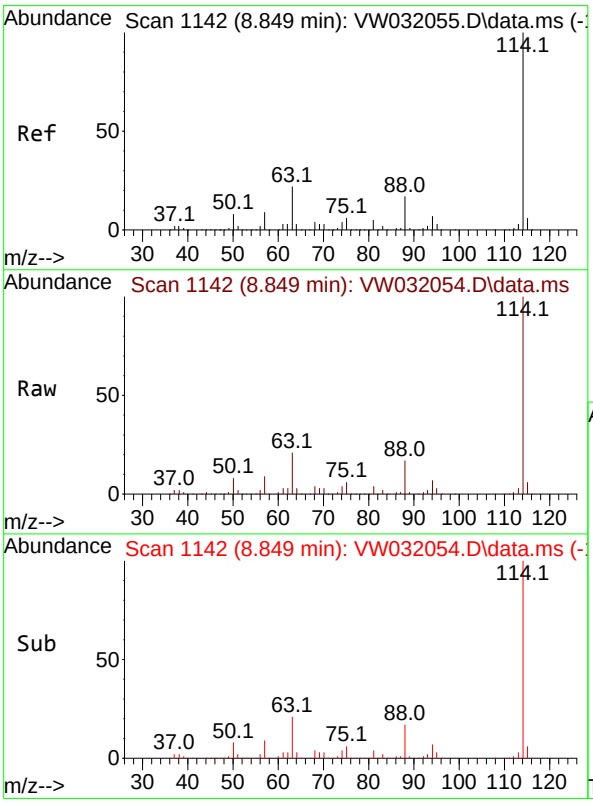
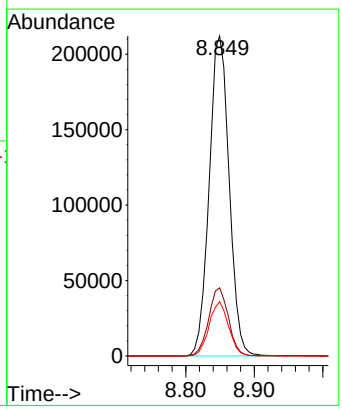
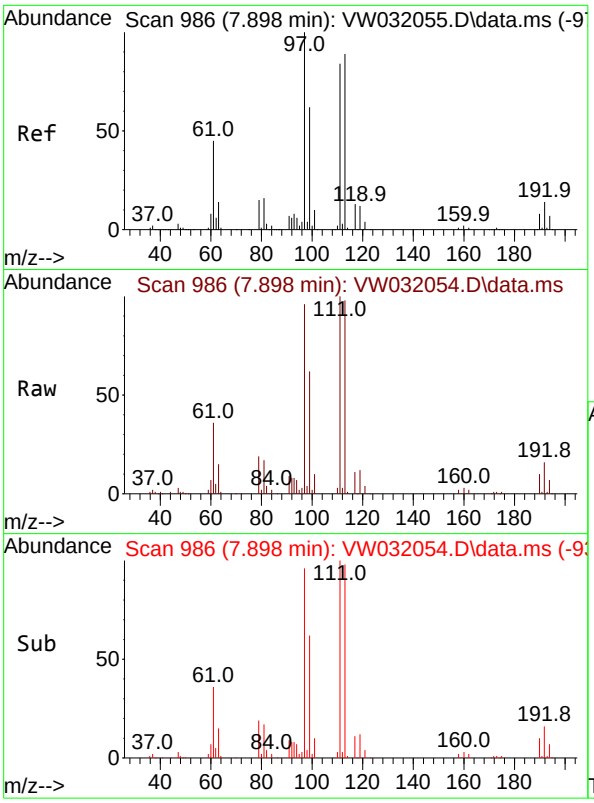


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

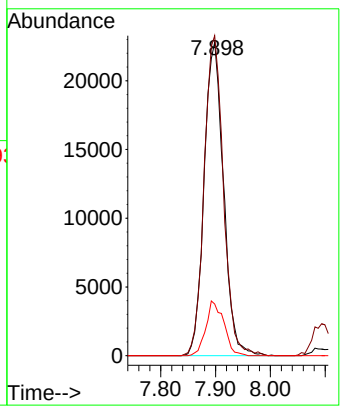




#35
Dibromofluoromethane
Concen: 20.158 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



Instrument :
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ClientSampleId :
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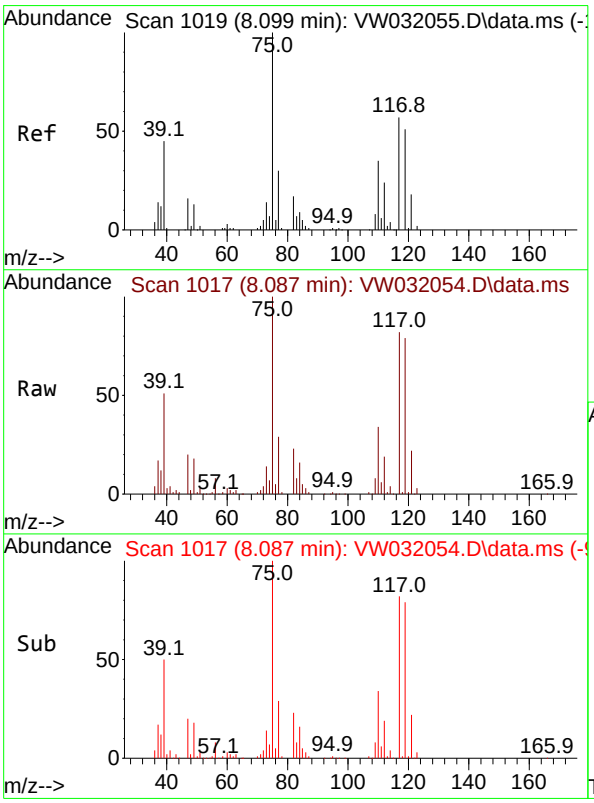
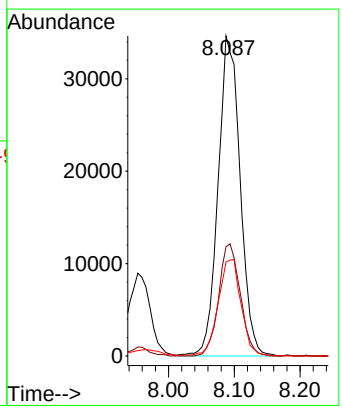
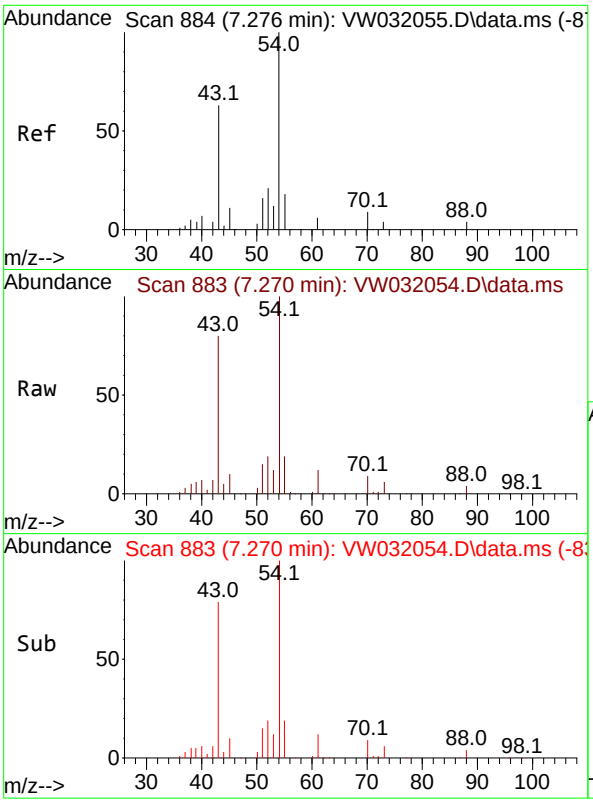


#36
1,1-Dichloropropene
Concen: 20.712 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

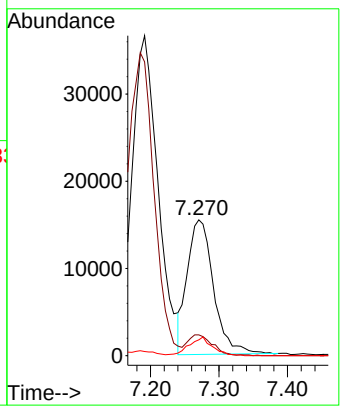




#37
Ethyl Acetate
Concen: 17.945 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
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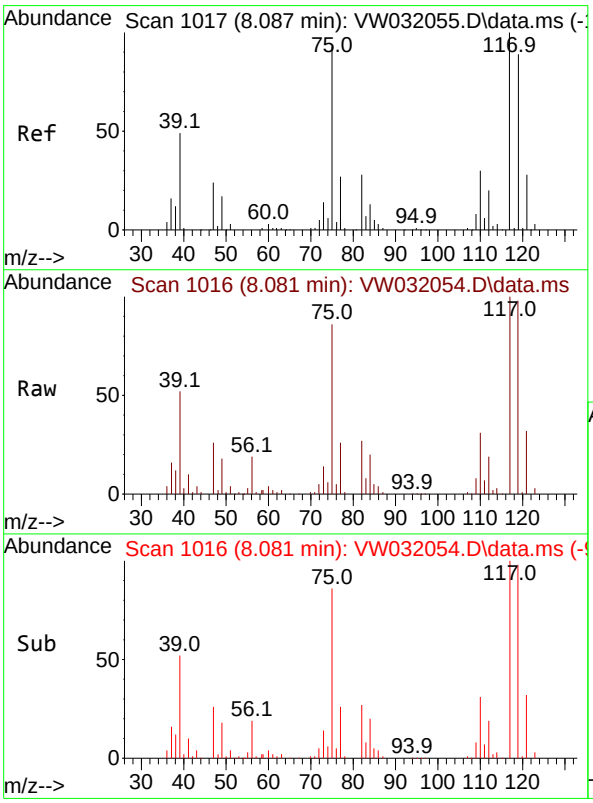
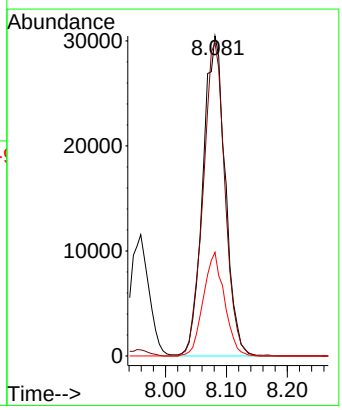
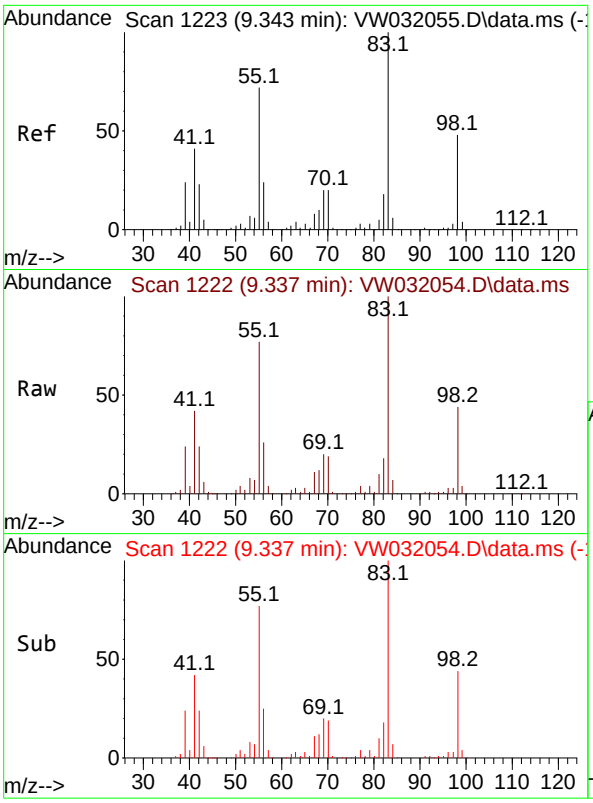


#38
Carbon Tetrachloride
Concen: 20.527 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

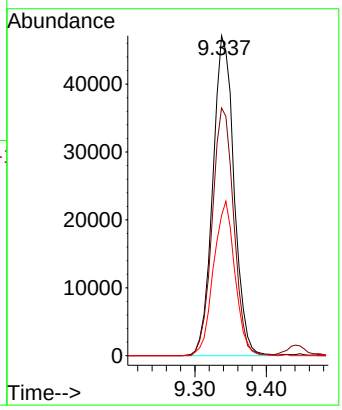




#39
Methylcyclohexane
Concen: 20.484 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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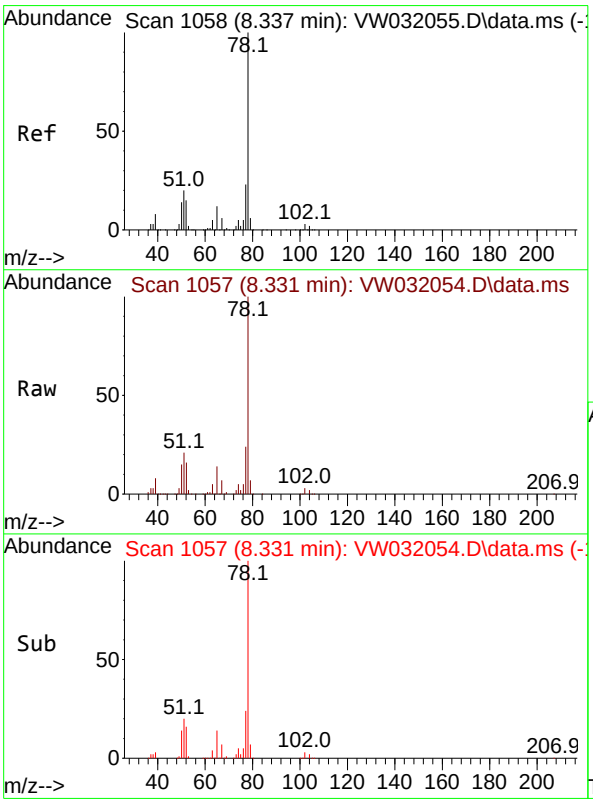
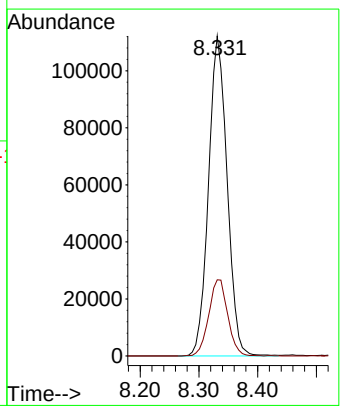
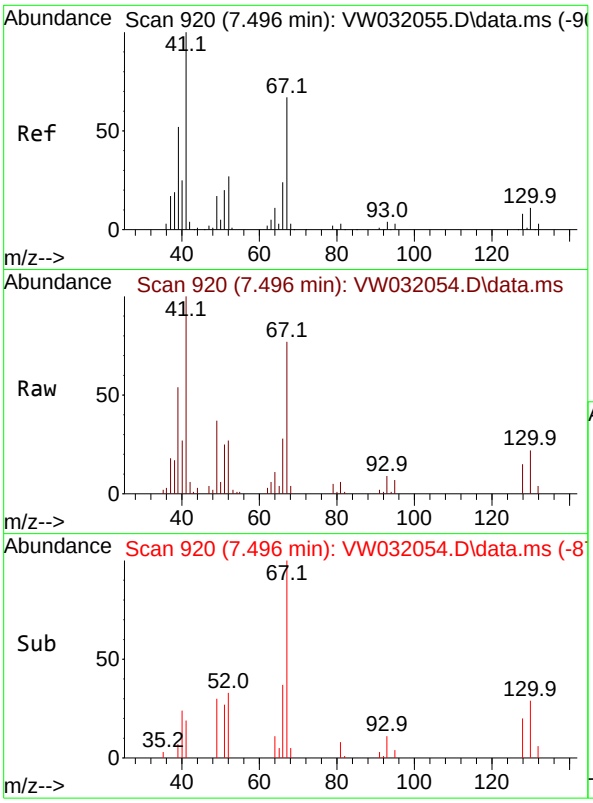


#40
Benzene
Concen: 20.333 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 78 Resp: 246590

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.4	27.6

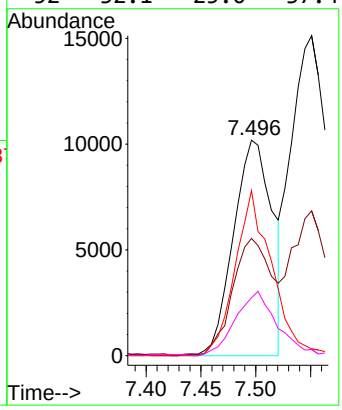




#41
Methacrylonitrile
Concen: 19.242 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
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ClientSampleId :
VSTDICC020

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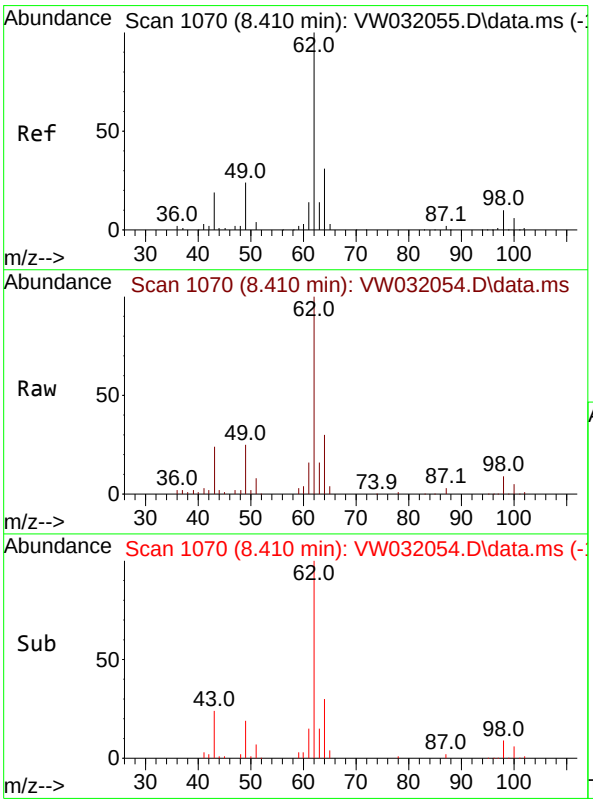
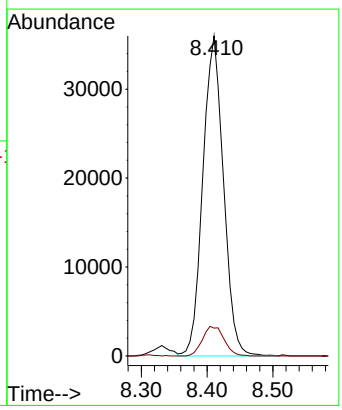
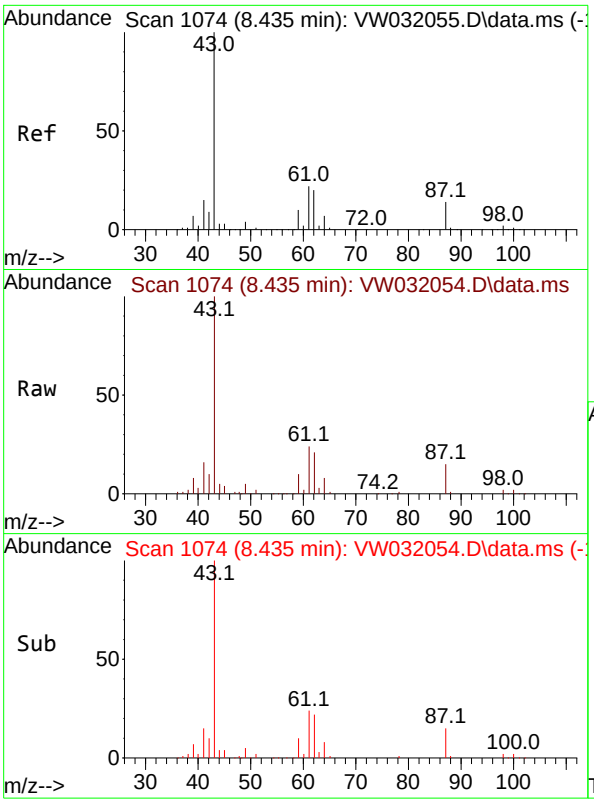


#42
1,2-Dichloroethane
Concen: 20.239 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 78543

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.8

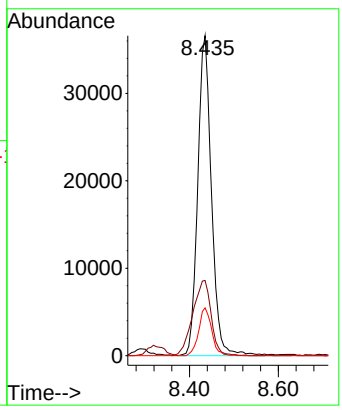




#43
Isopropyl Acetate
Concen: 18.660 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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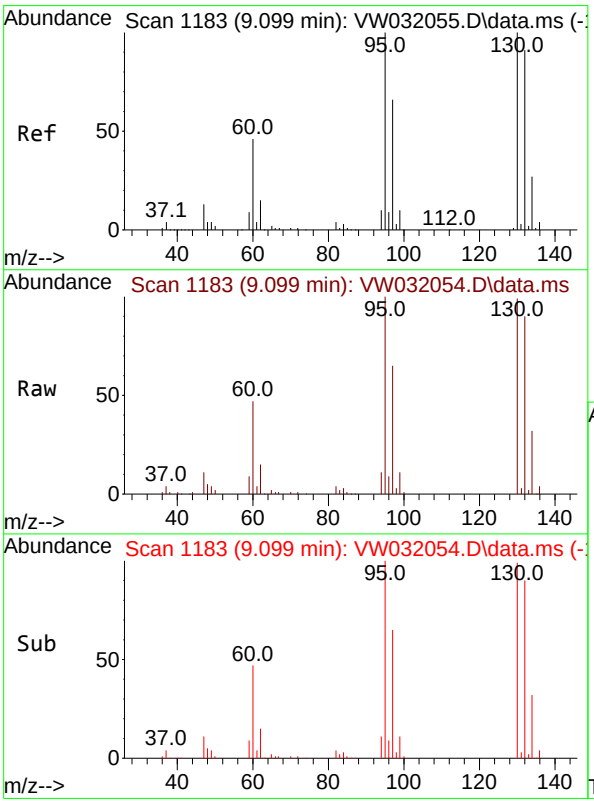
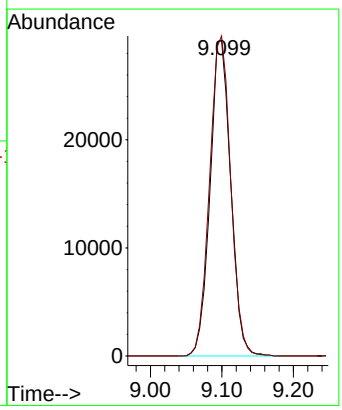
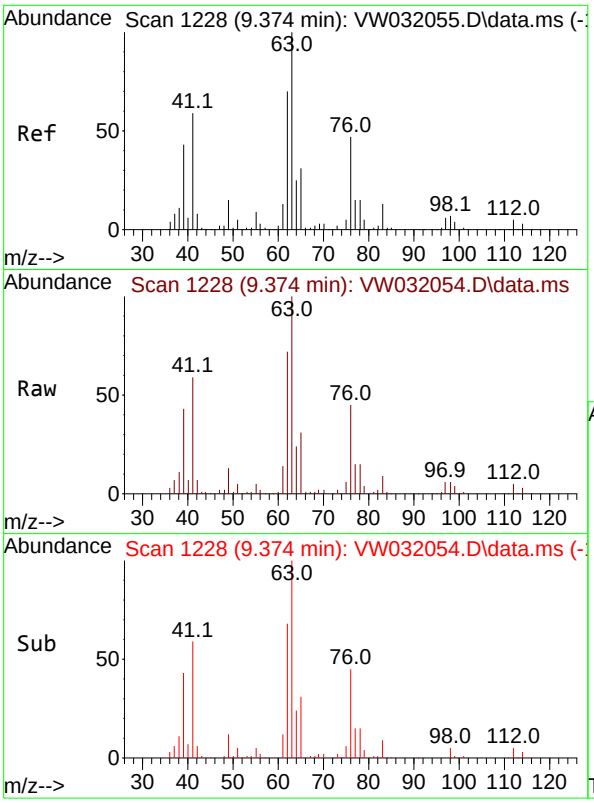


#44
Trichloroethene
Concen: 20.302 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:130 Resp: 58636

Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	200.6

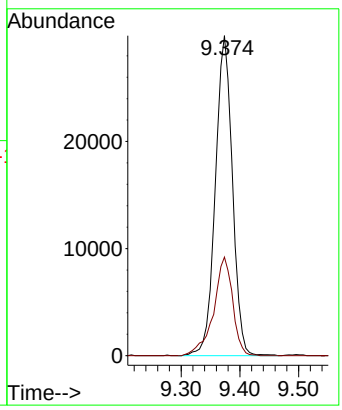




#45
1,2-Dichloropropane
Concen: 20.597 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 6034

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	36.8



Instrument :
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ClientSampleId :
VSTDICC020

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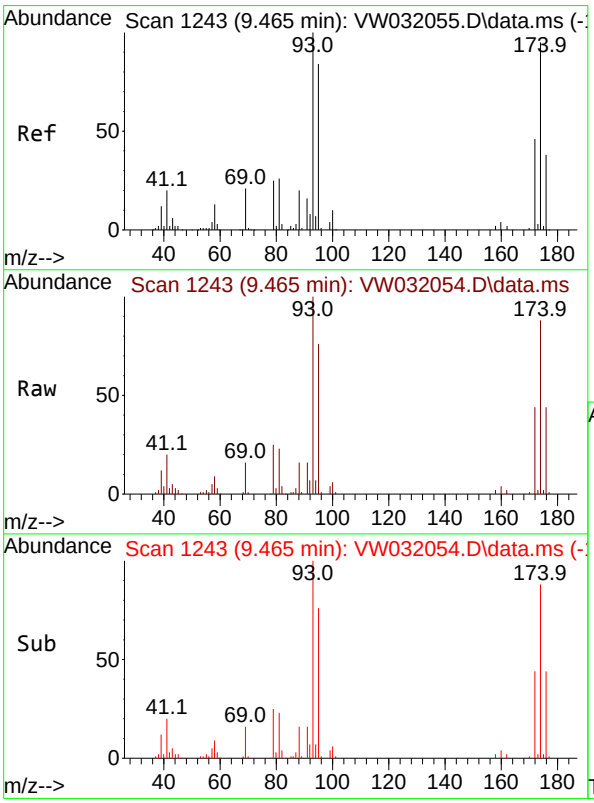
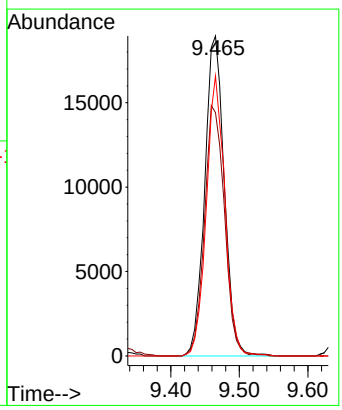
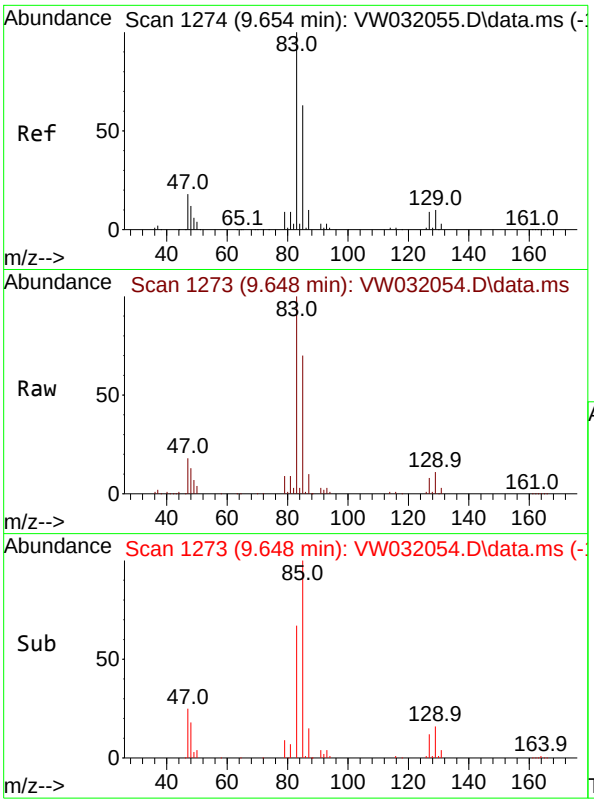


#46
Dibromomethane
Concen: 19.873 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

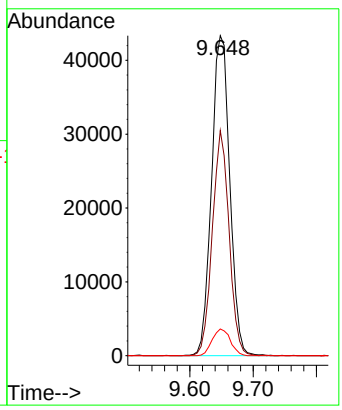




#47
Bromodichloromethane
Concen: 19.869 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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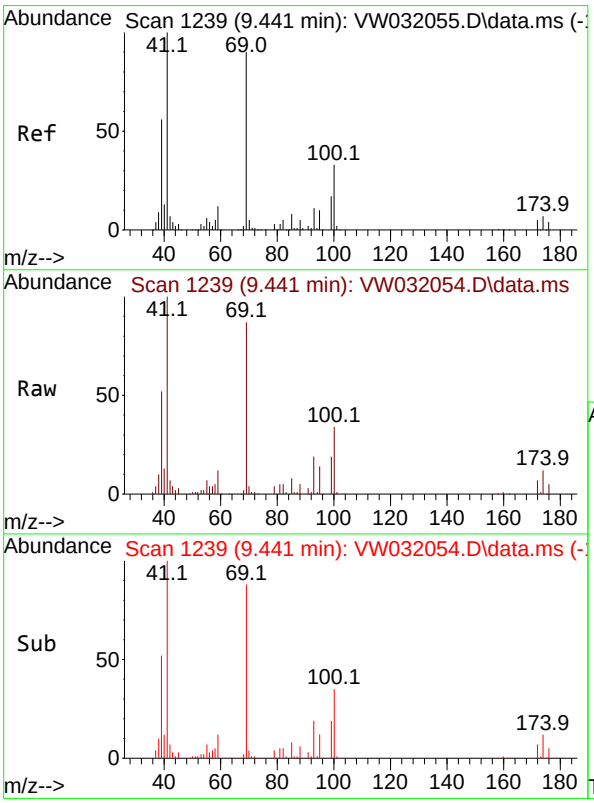
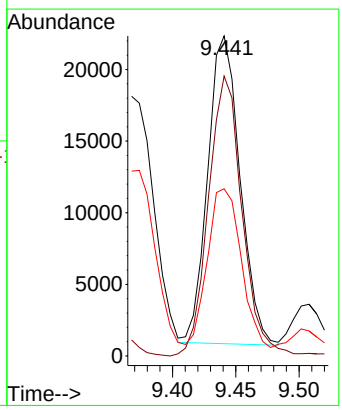
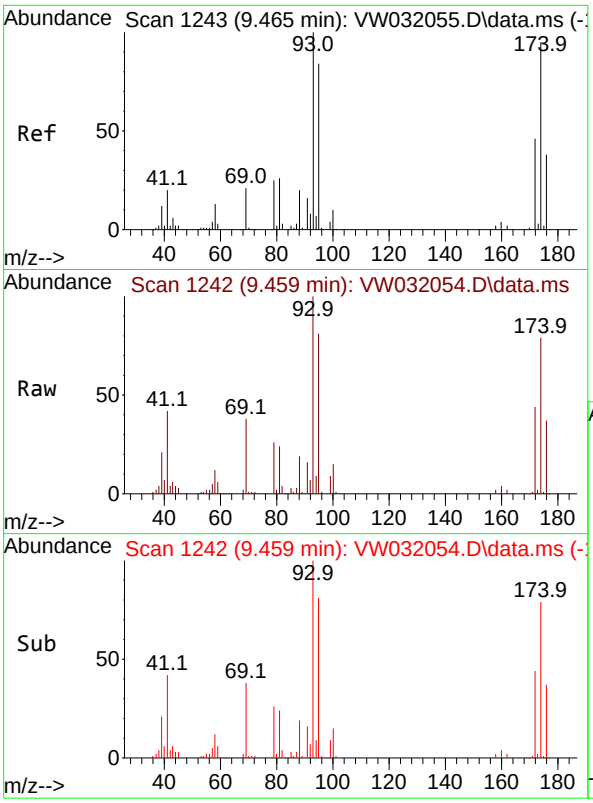


#48
Methyl methacrylate
Concen: 18.704 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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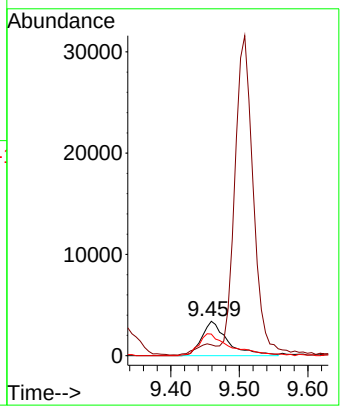
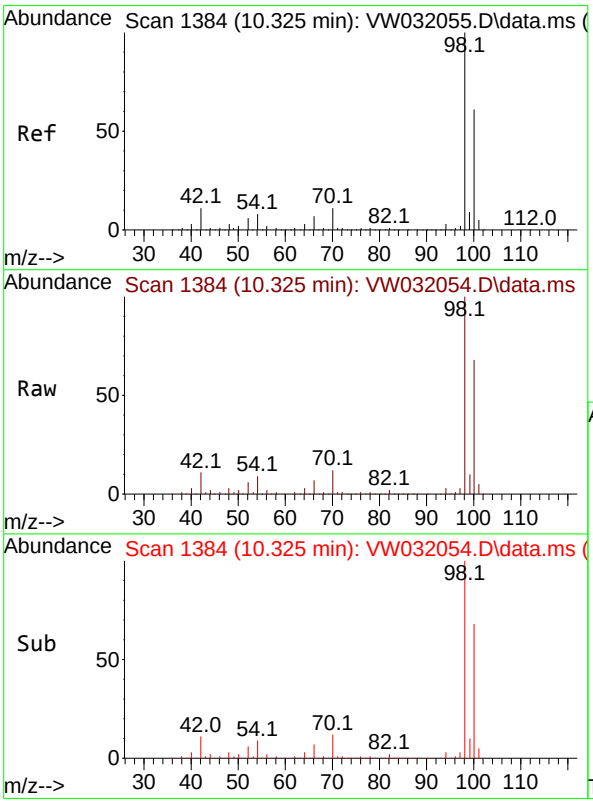
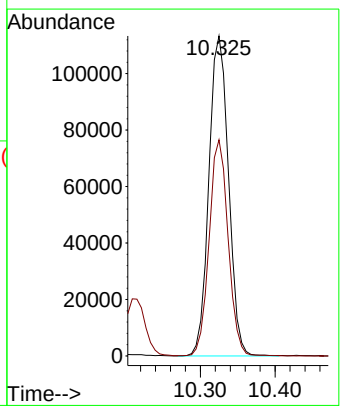


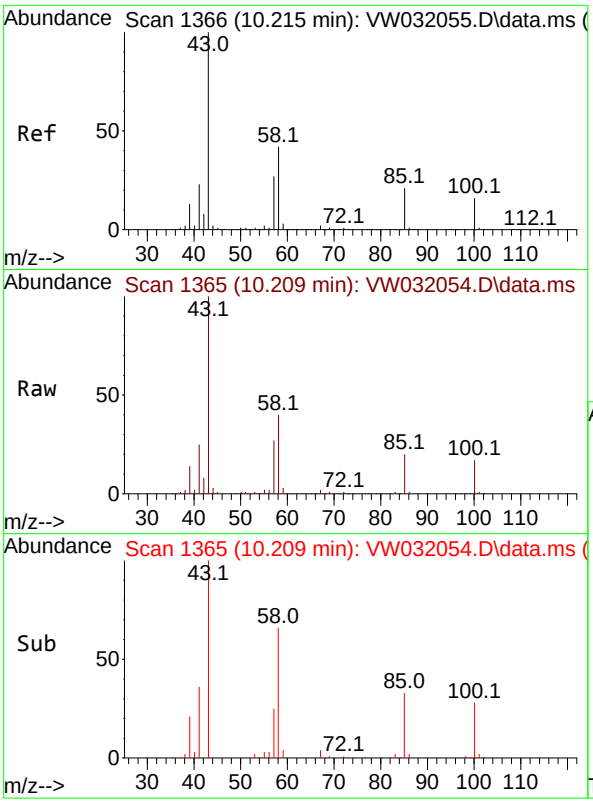


#50
Toluene-d8
Concen: 20.212 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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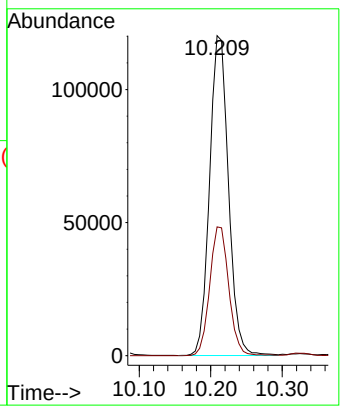
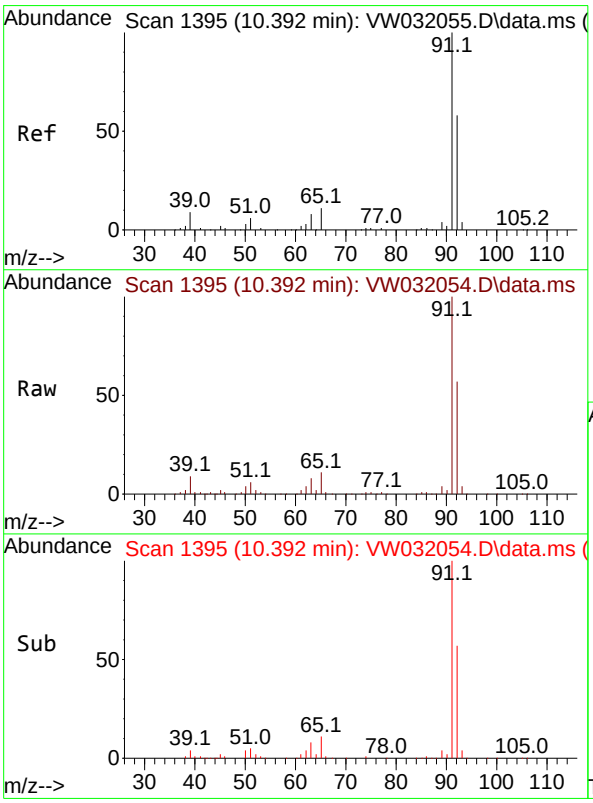
Supervised By :Semsettin Yesilyurt 08/12/2025

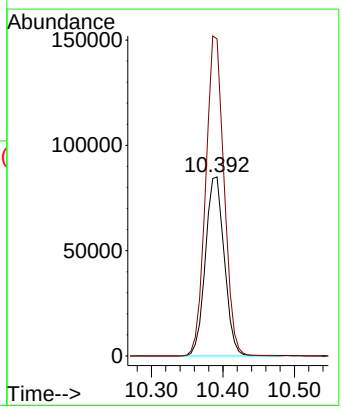


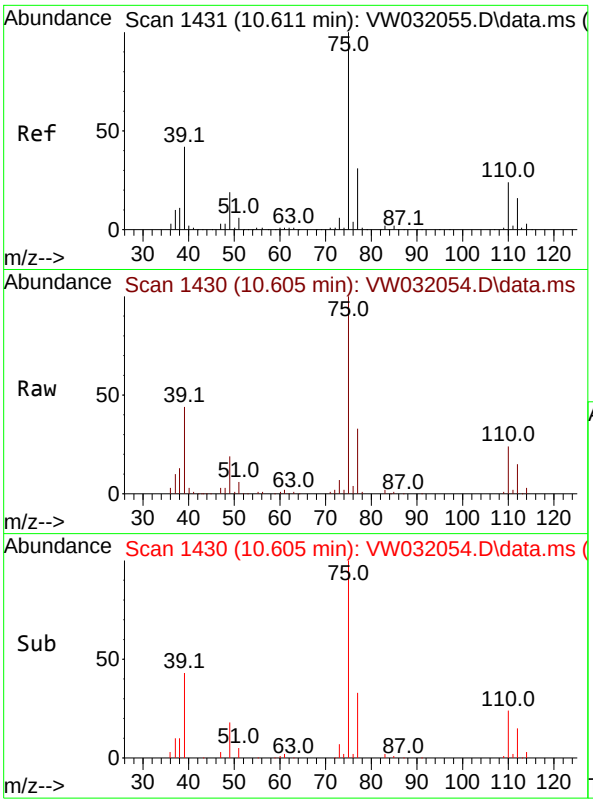


#52
Toluene
Concen: 20.418 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 92 Resp: 155974

Ion	Ratio	Lower	Upper
92	100		
91	173.6	136.3	204.5

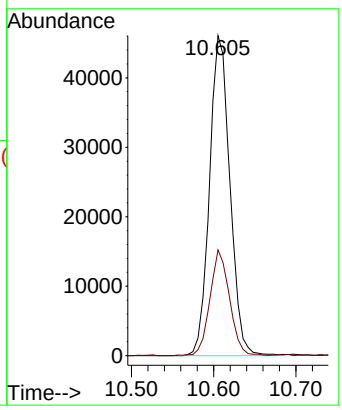




#53
t-1,3-Dichloropropene
Concen: 19.463 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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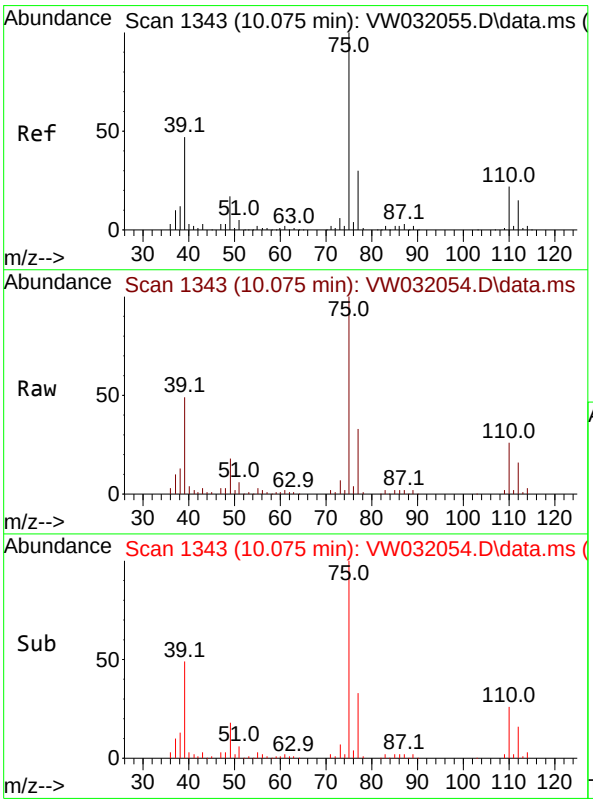
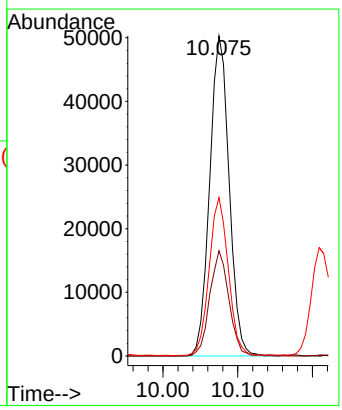
Supervised By :Semsettin Yesilyurt 08/12/2025

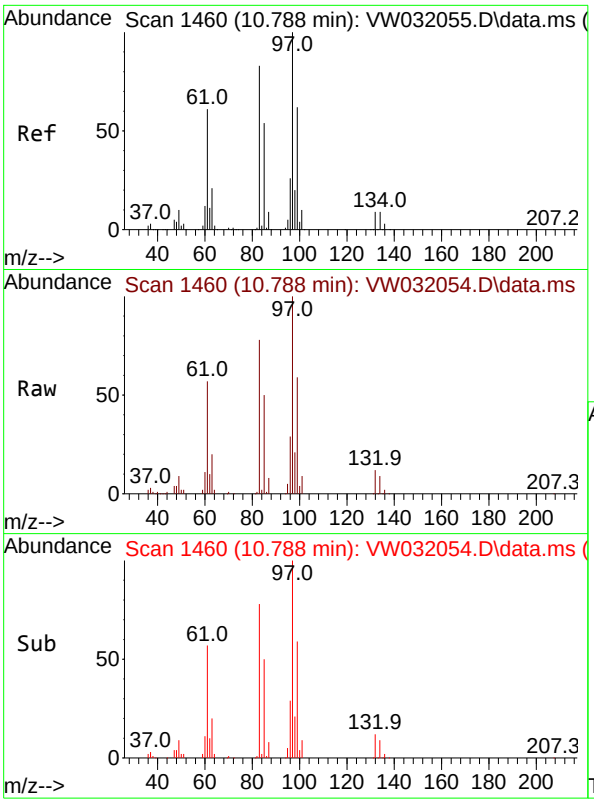


#54
cis-1,3-Dichloropropene
Concen: 19.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

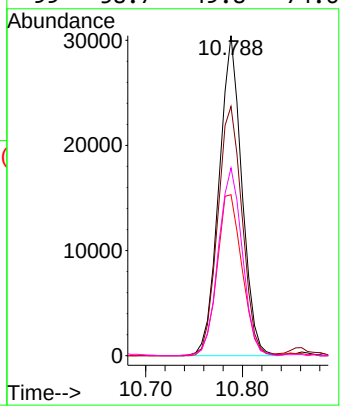




#55
1,1,2-Trichloroethane
Concen: 19.888 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



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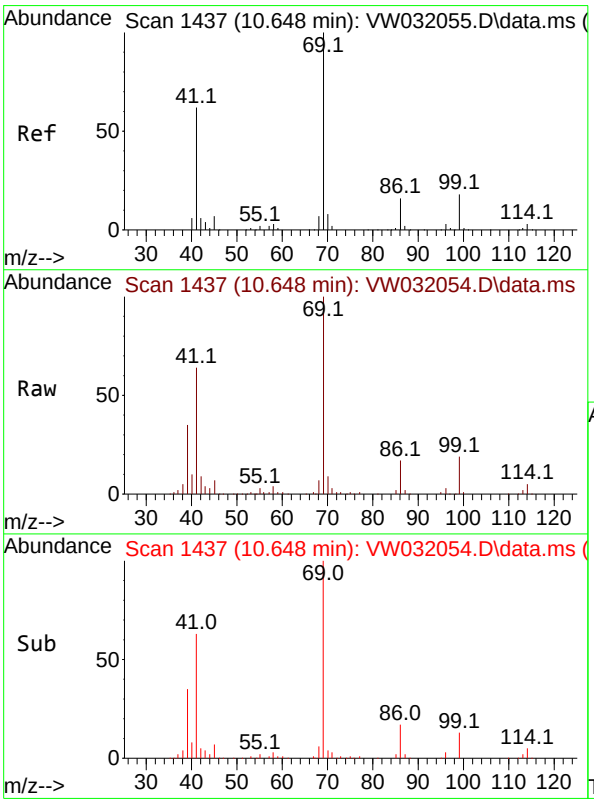
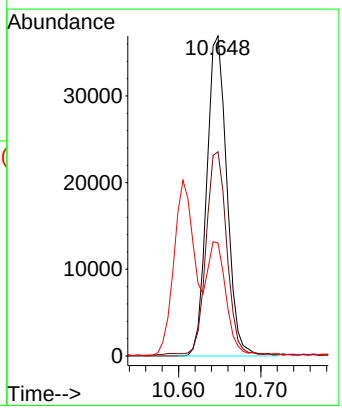
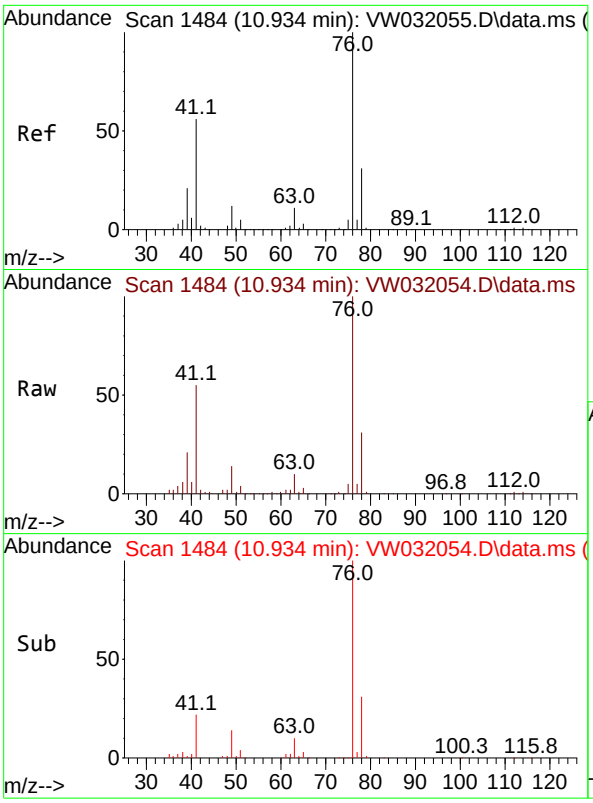


#56
Ethyl methacrylate
Concen: 18.645 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

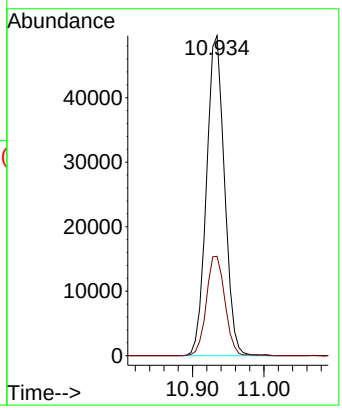




#57
1,3-Dichloropropane
Concen: 19.790 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 76 Resp: 8667

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6



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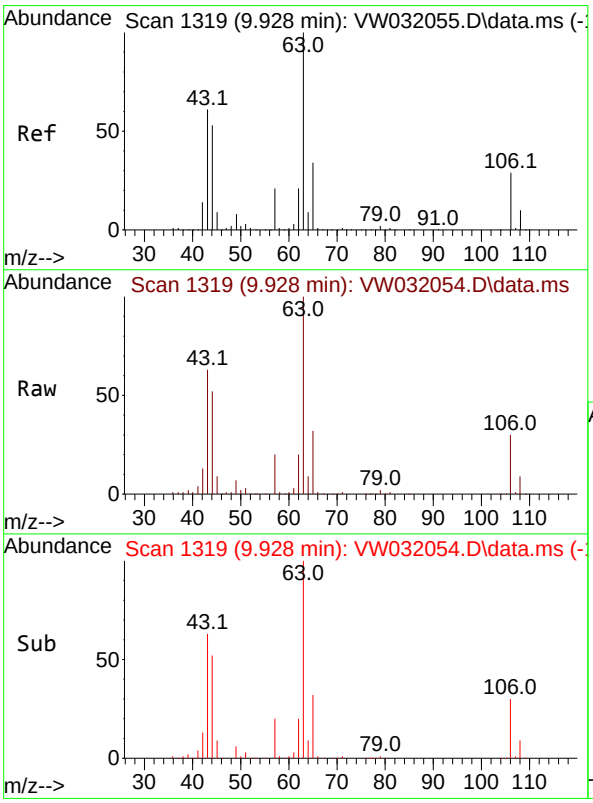
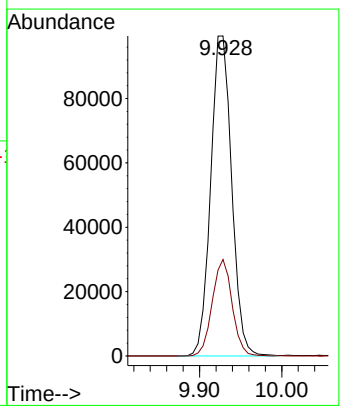
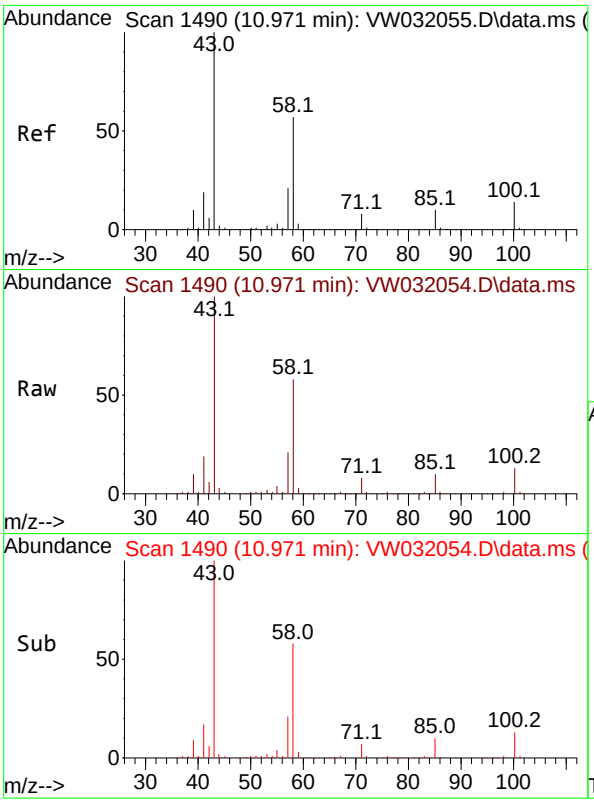


#58
2-Chloroethyl Vinyl ether
Concen: 94.809 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 176339

Ion	Ratio	Lower	Upper
63	100		
106	28.5	23.5	35.3

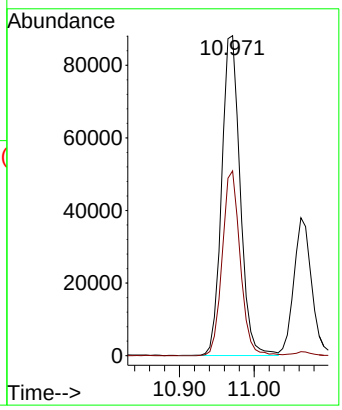




#59
2-Hexanone
Concen: 91.530 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 15126

Ion	Ratio	Lower	Upper
43	100		
58	56.4	28.3	85.0



Instrument :
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ClientSampleId :
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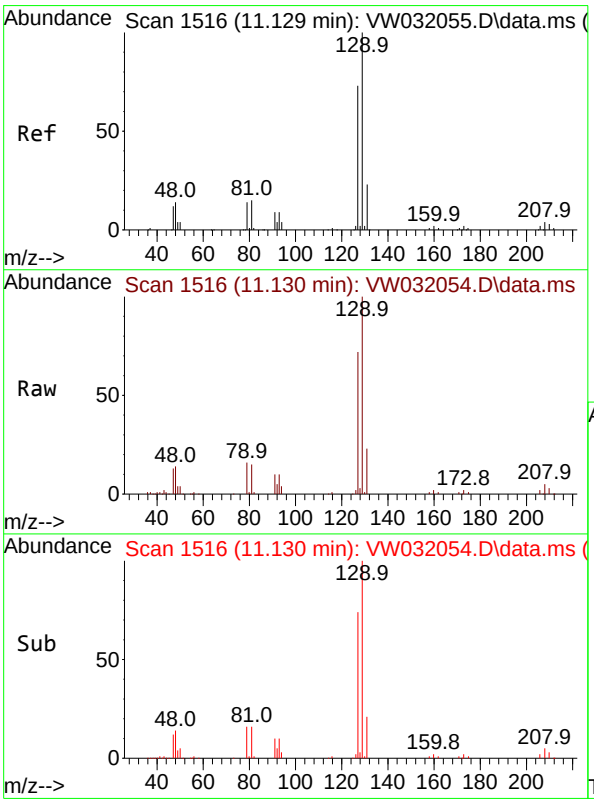
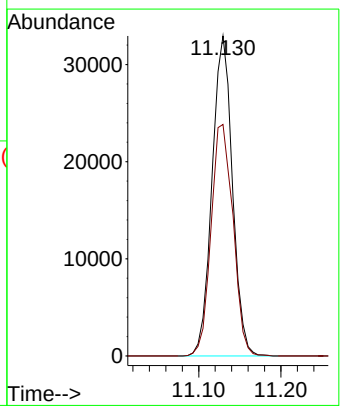
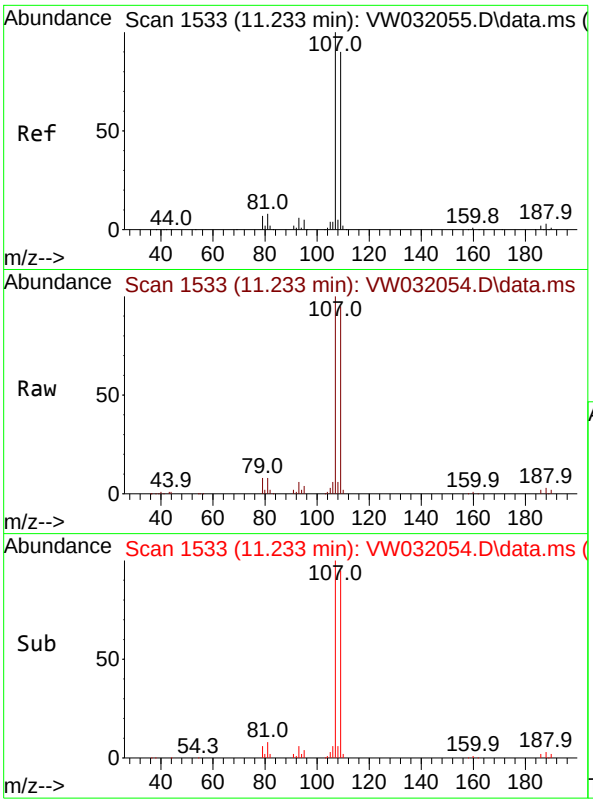


#60
Dibromochloromethane
Concen: 19.721 ug/l
RT: 11.130 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:129 Resp: 56607

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.0	116.9

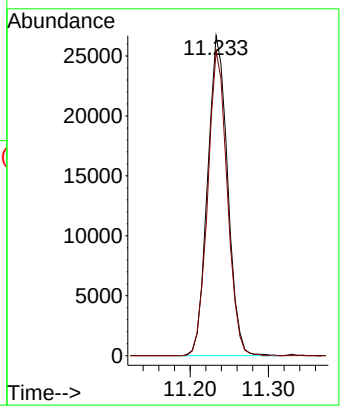




#61
1,2-Dibromoethane
Concen: 19.371 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:107 Resp: 4730

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.2	111.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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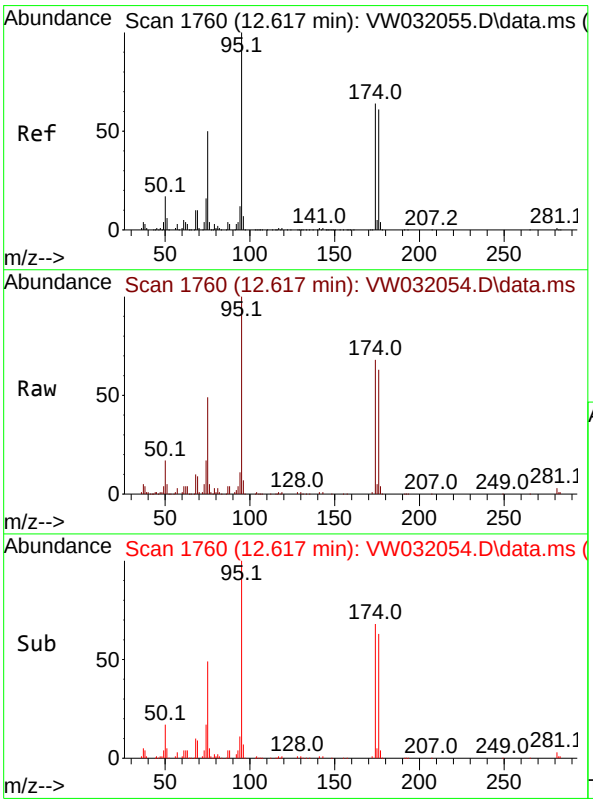
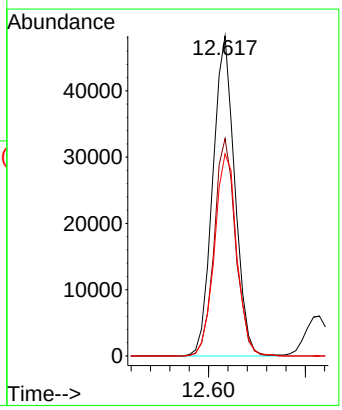
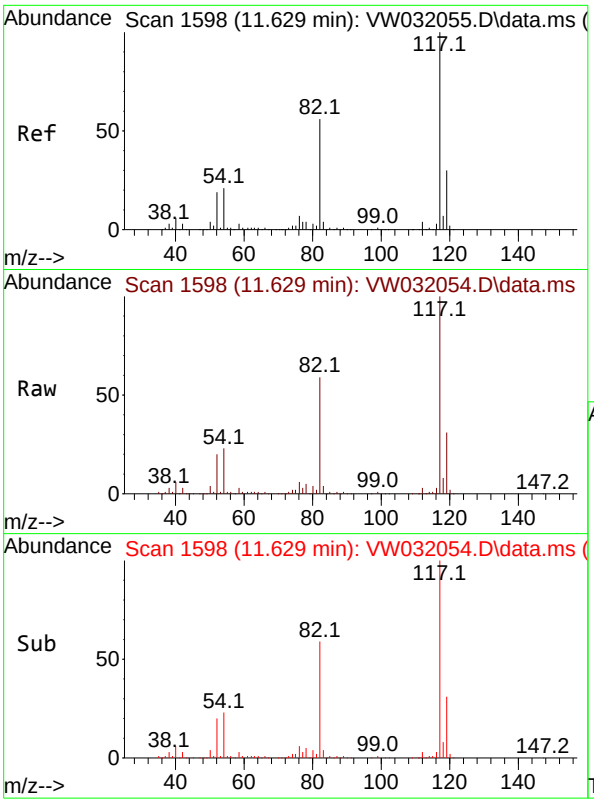


#62
4-Bromofluorobenzene
Concen: 20.149 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

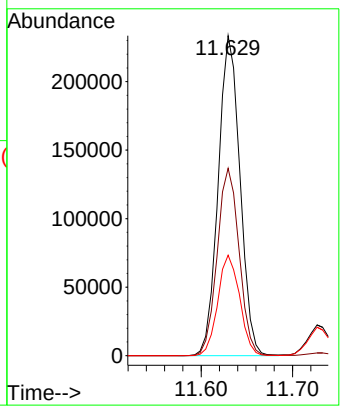




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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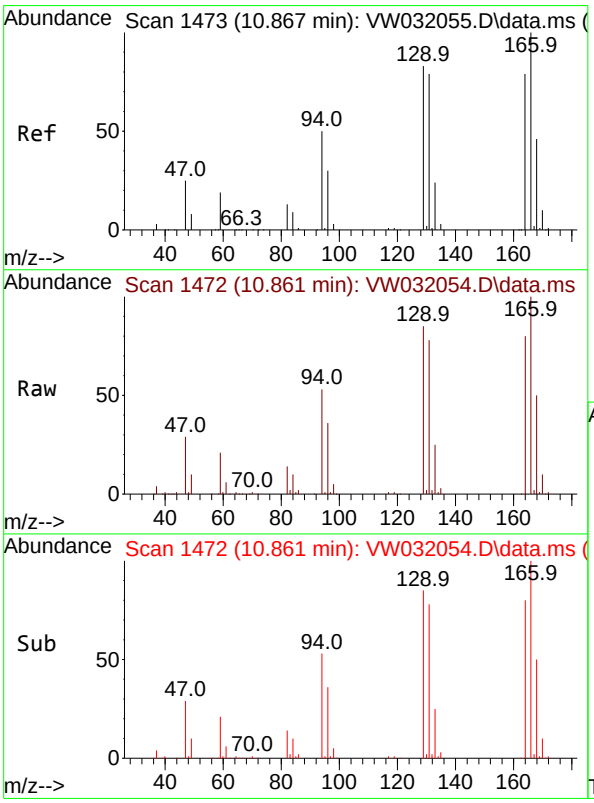
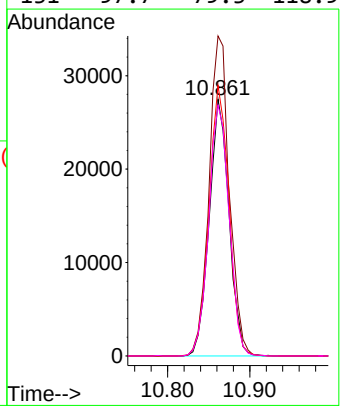
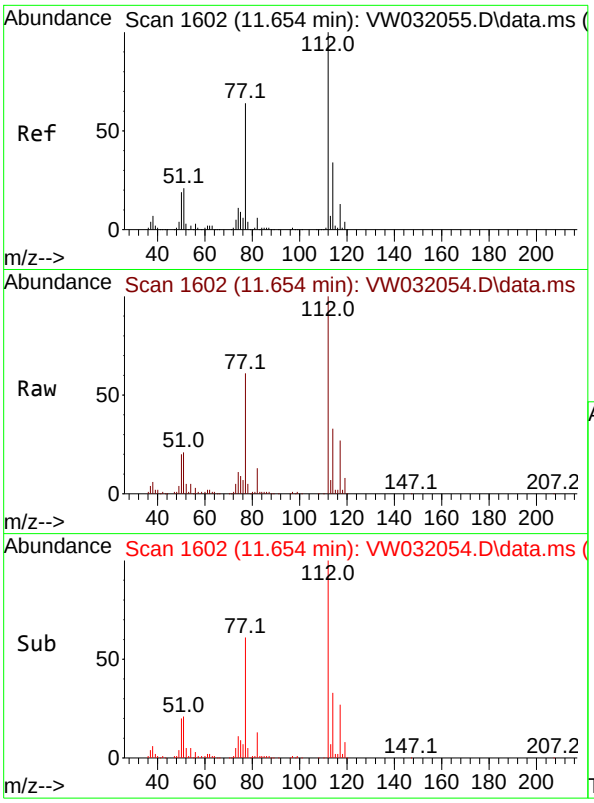


#64
Tetrachloroethene
Concen: 20.434 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

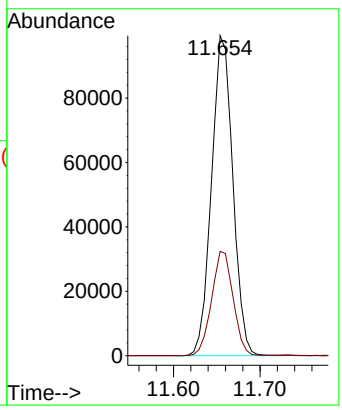




#65
Chlorobenzene
Concen: 20.169 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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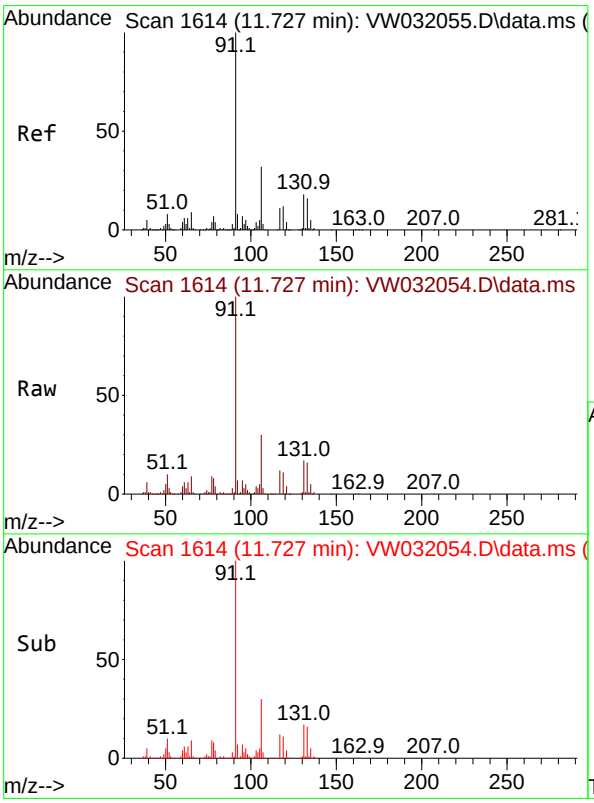
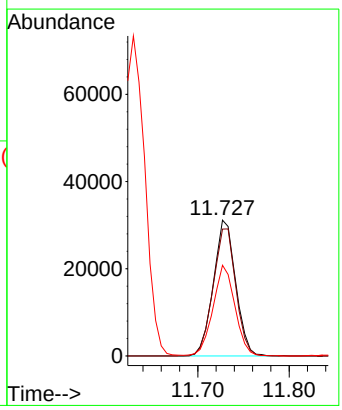
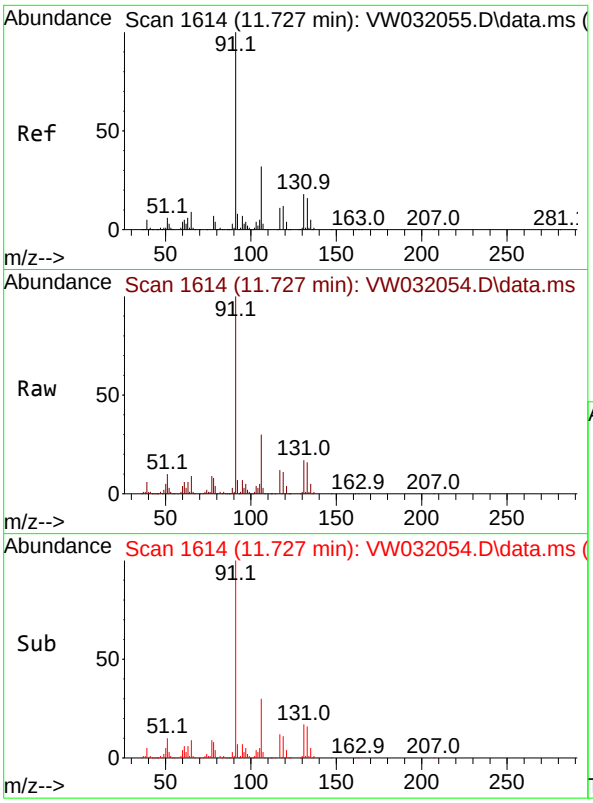


#66
1,1,1,2-Tetrachloroethane
Concen: 20.150 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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 :
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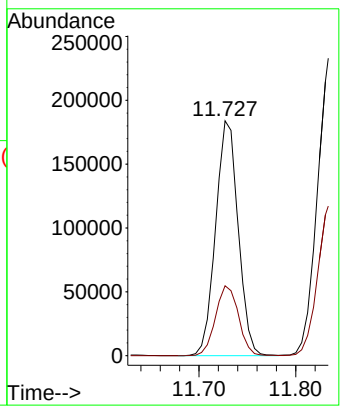
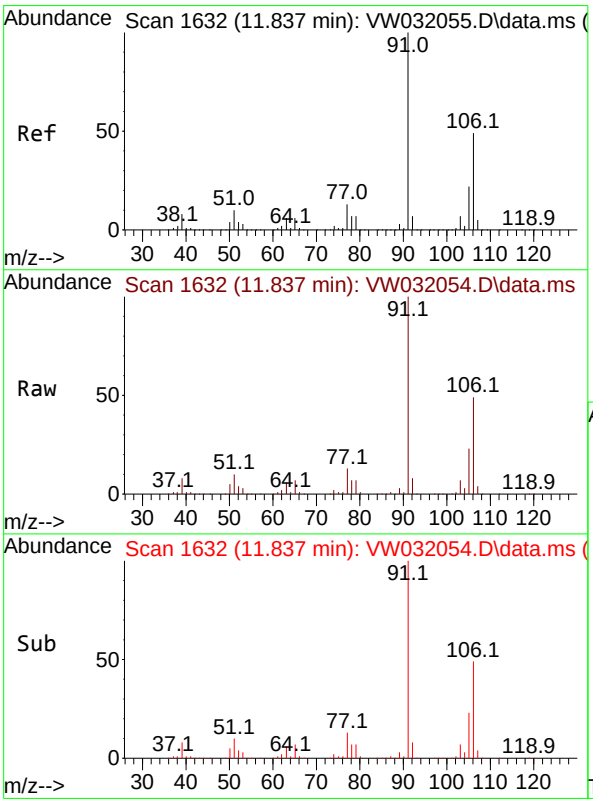
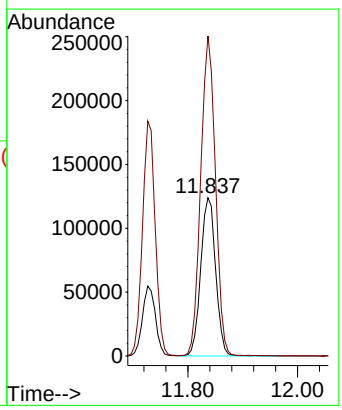


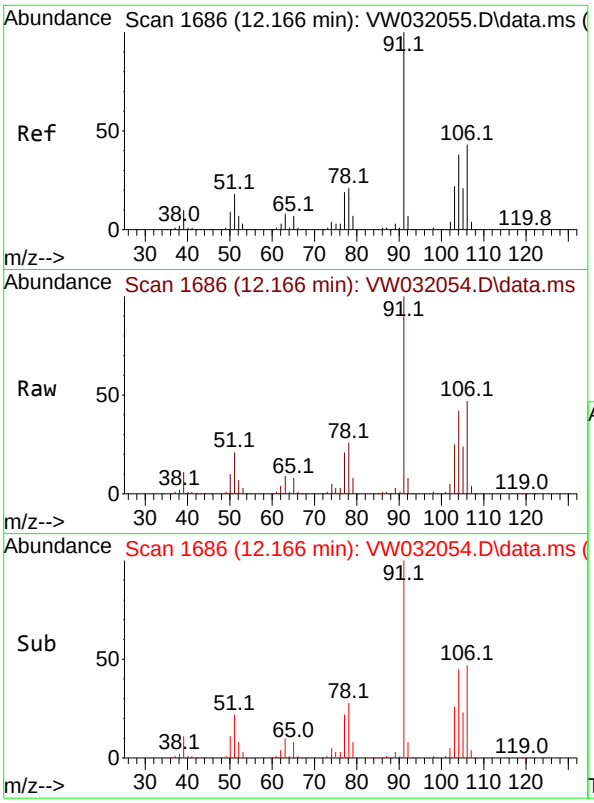


#68
m/p-Xylenes
Concen: 42.376 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 233224

Ion	Ratio	Lower	Upper
106	100		
91	199.8	162.2	243.2

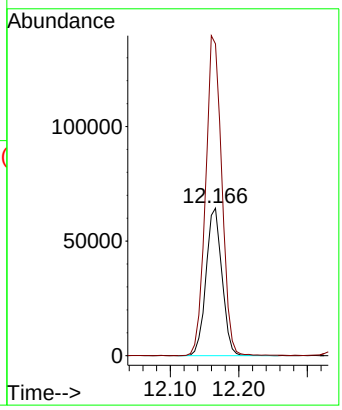




#69
o-Xylene
Concen: 20.482 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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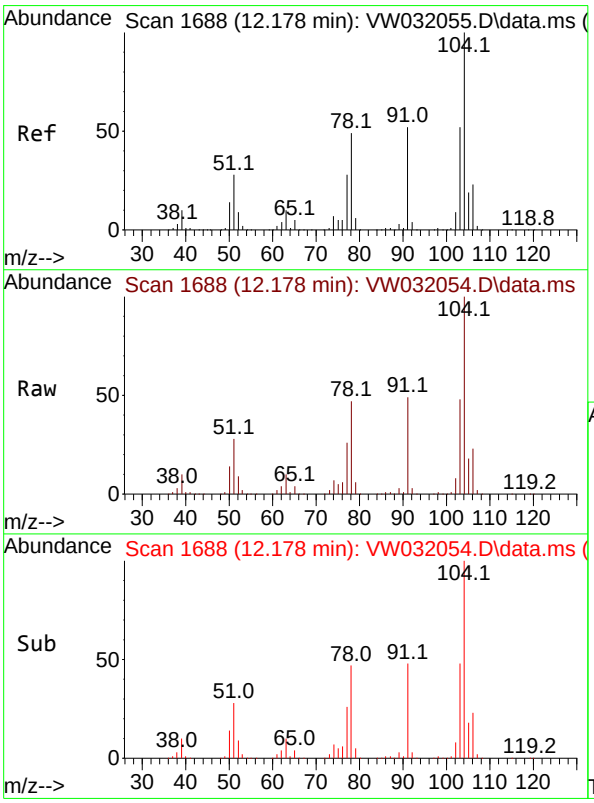
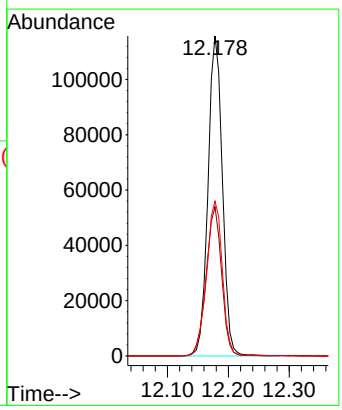
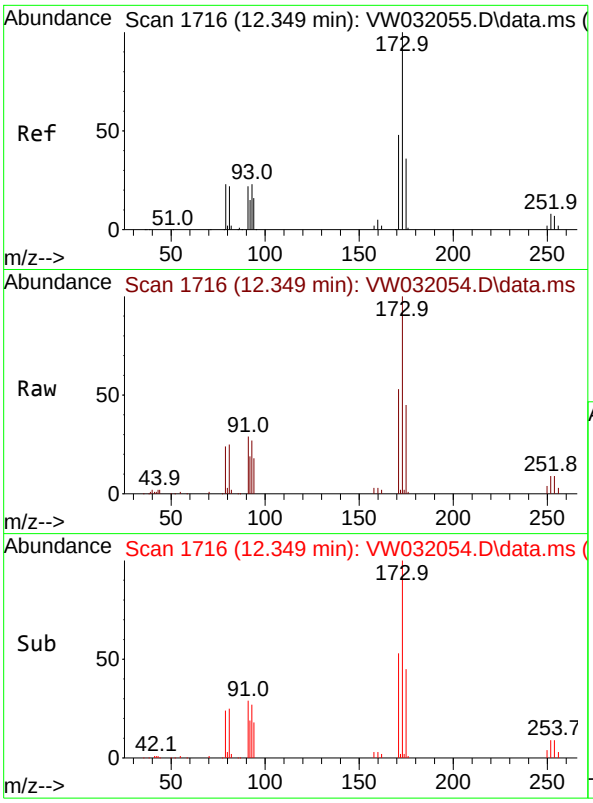


#70
Styrene
Concen: 20.991 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

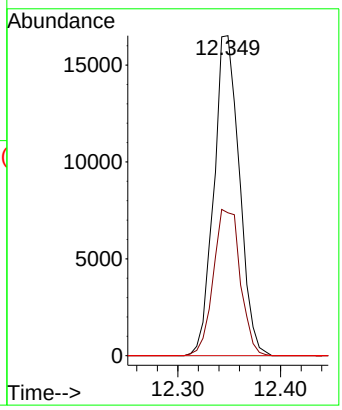




#71
Bromoform
Concen: 18.991 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

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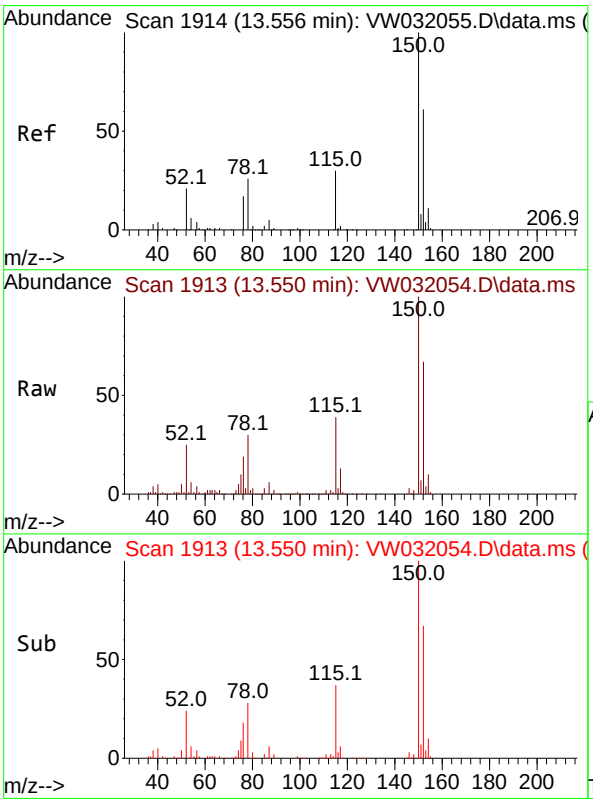
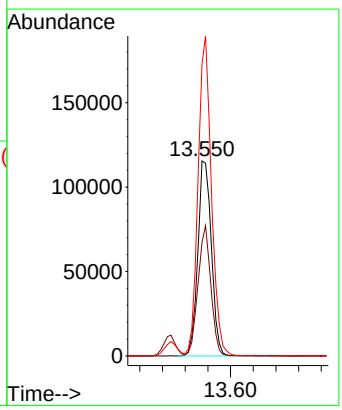
Supervised By :Semsettin Yesilyurt 08/12/2025

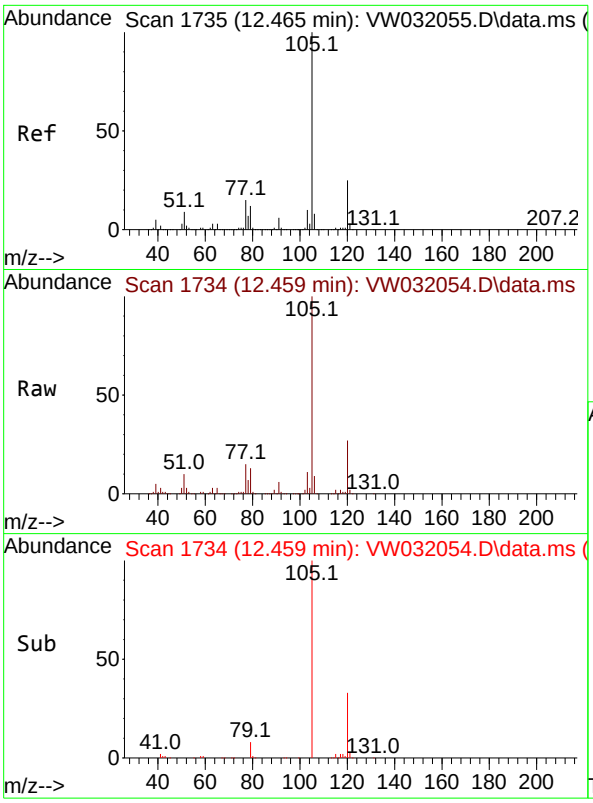


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

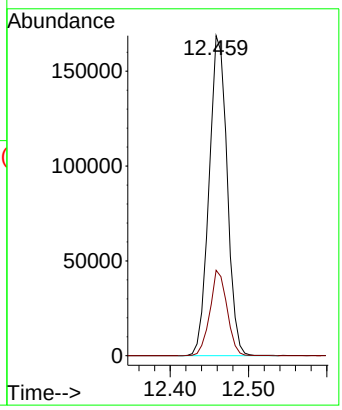




#73
Isopropylbenzene
Concen: 20.178 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 26982

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.8	38.4



Instrument :
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ClientSampleId :
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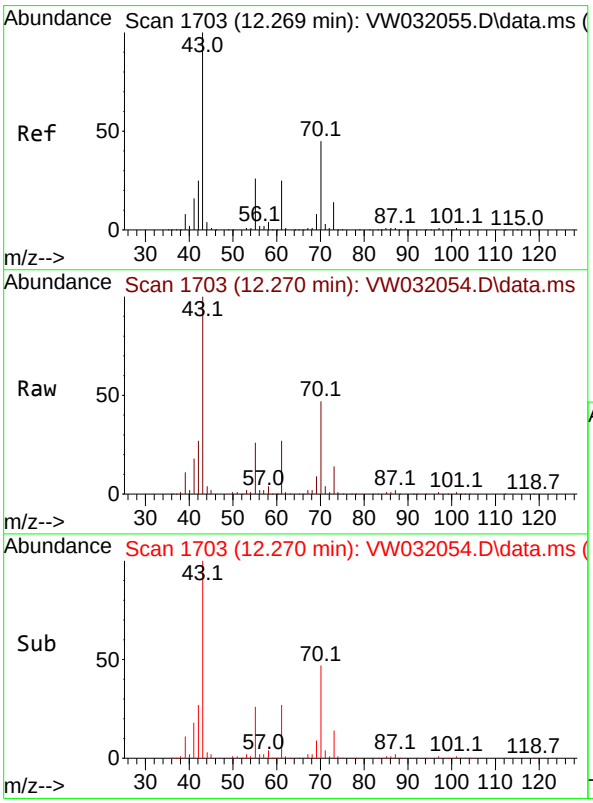
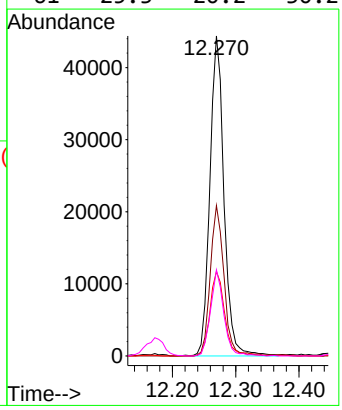
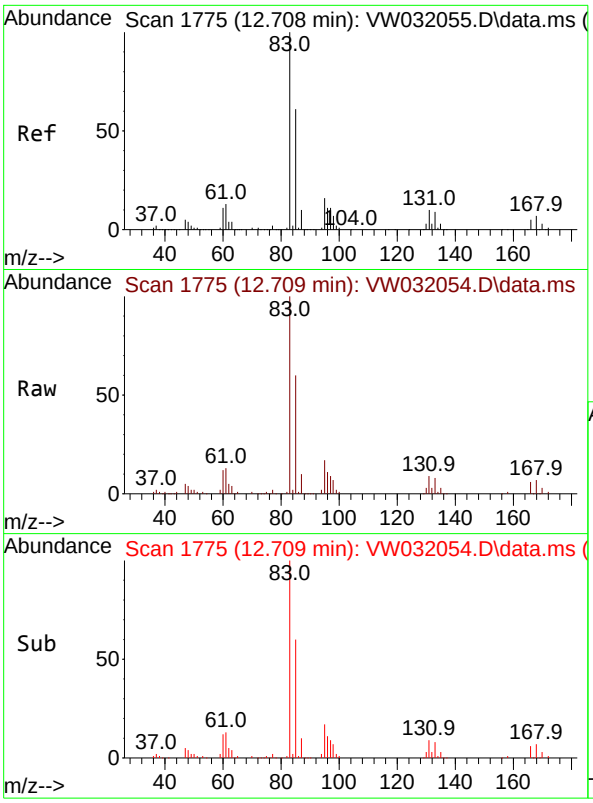


#74
N-amyl acetate
Concen: 18.005 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

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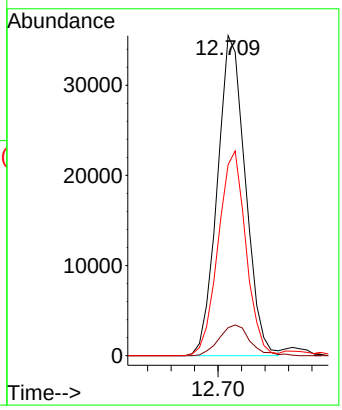
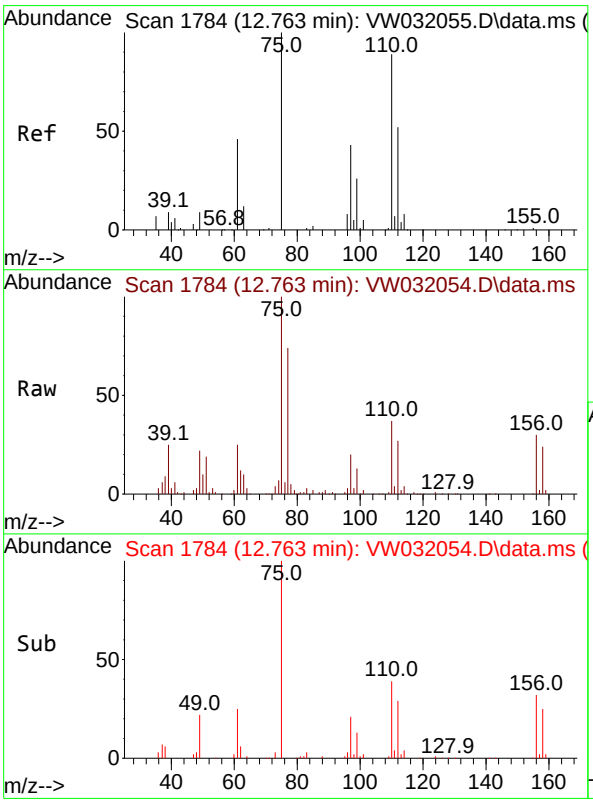
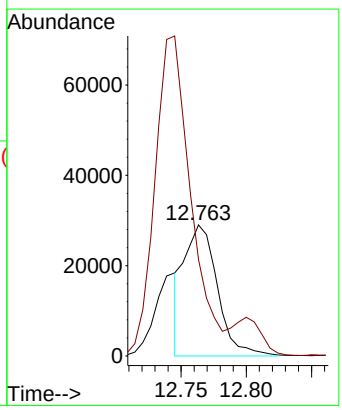


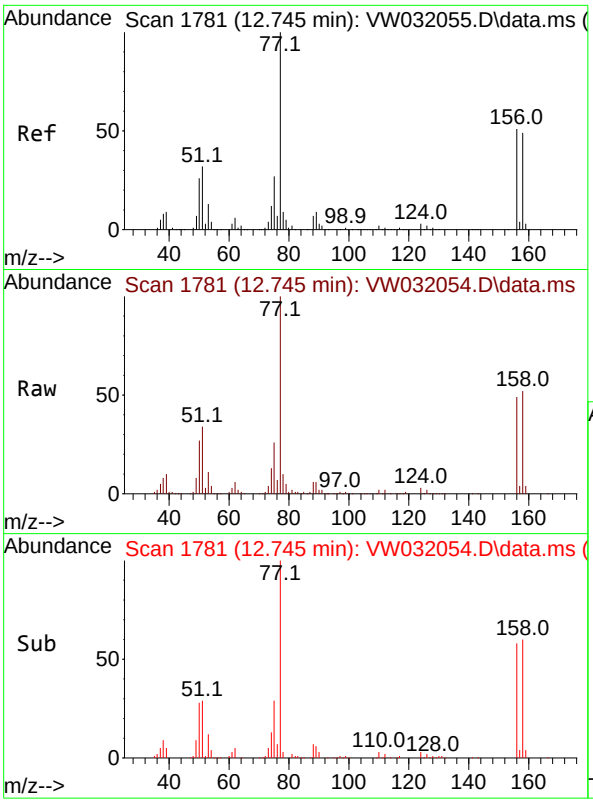


#76
1,2,3-Trichloropropane
Concen: 17.494 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 51456

Ion	Ratio	Lower	Upper
75	100		
77	262.8	123.5	370.5

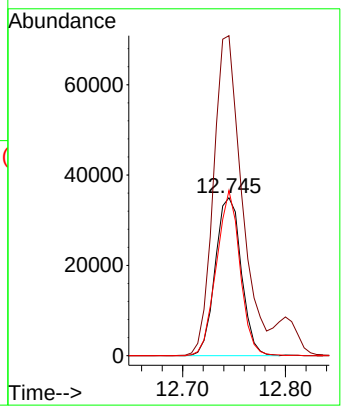




#77
Bromobenzene
Concen: 19.221 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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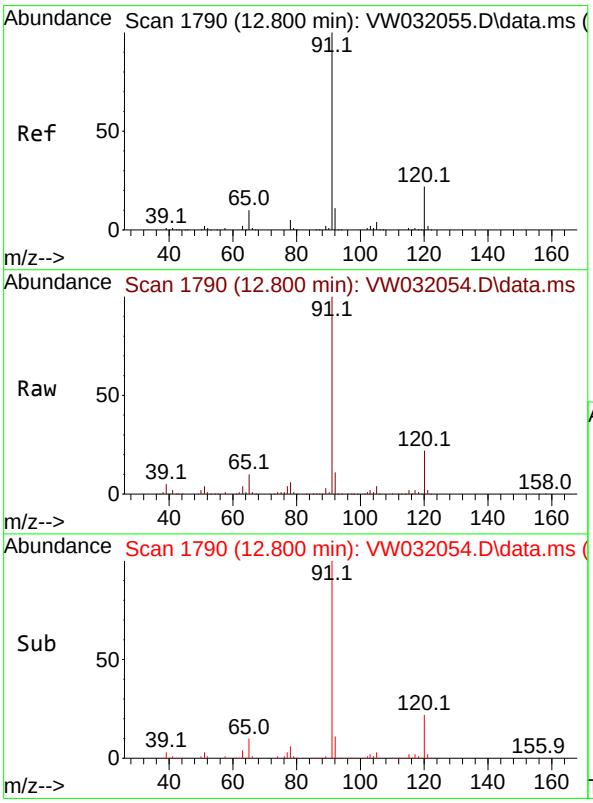
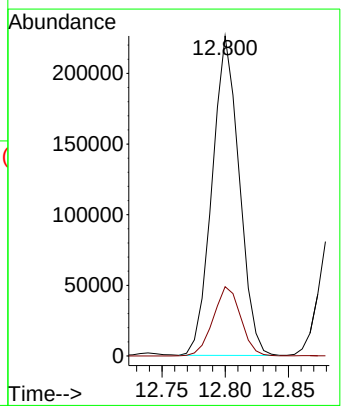
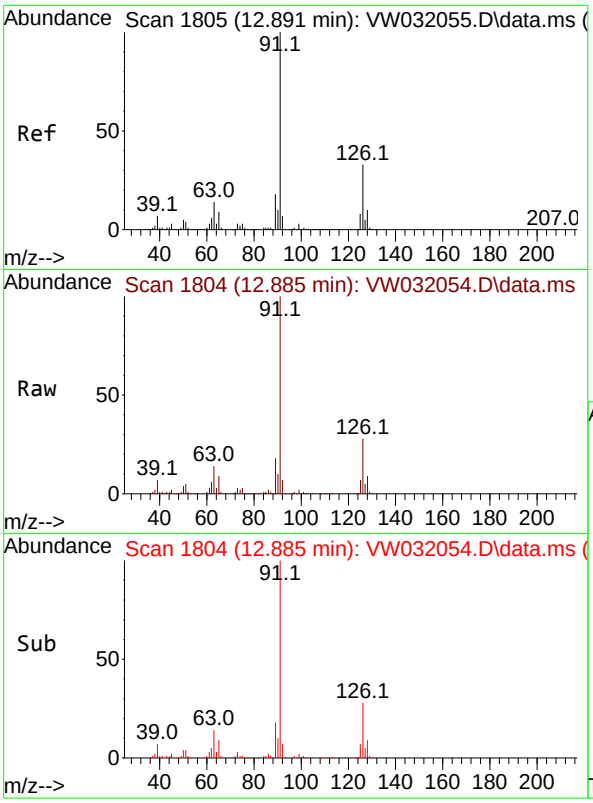


#78
n-propylbenzene
Concen: 20.476 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 337098

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3

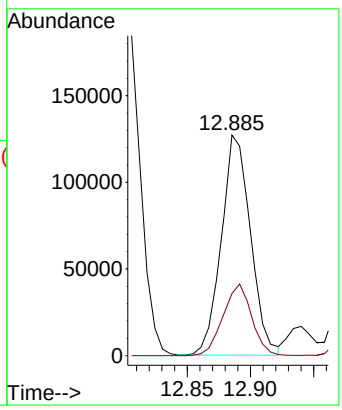




#79
2-Chlorotoluene
Concen: 20.069 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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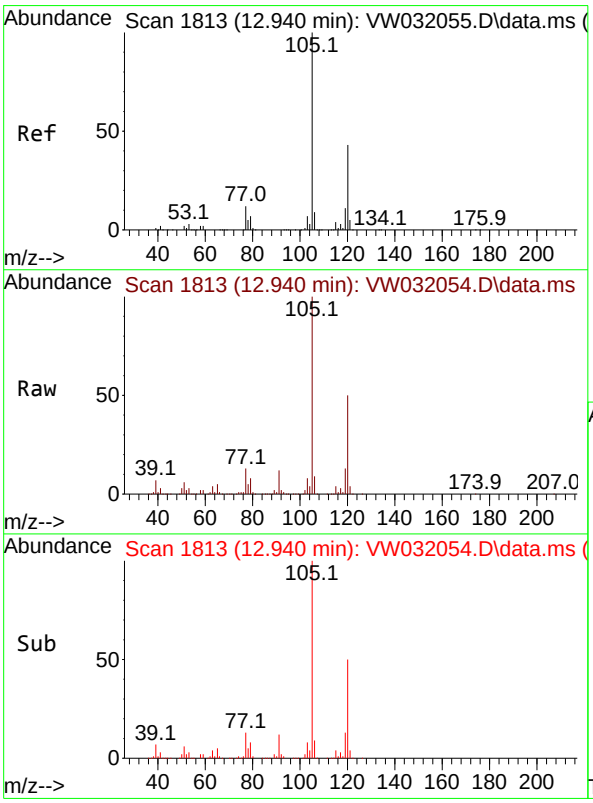
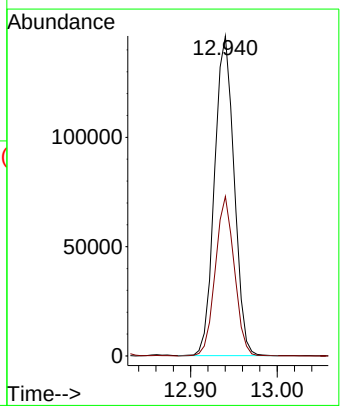
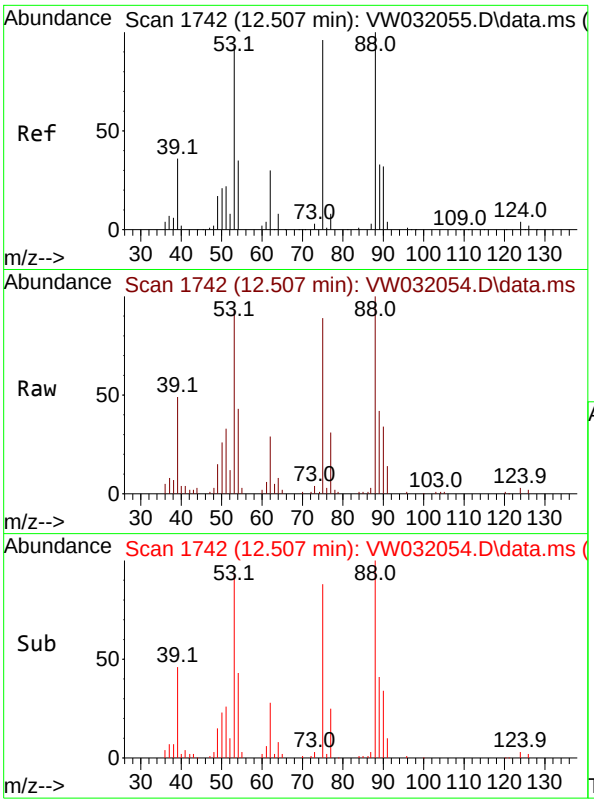


#80
1,3,5-Trimethylbenzene
Concen: 20.226 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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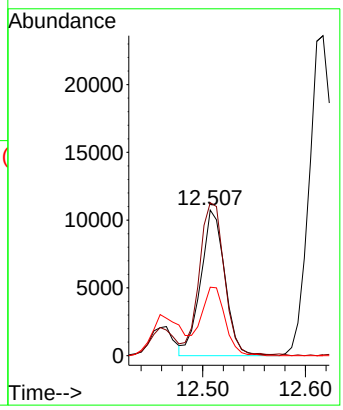
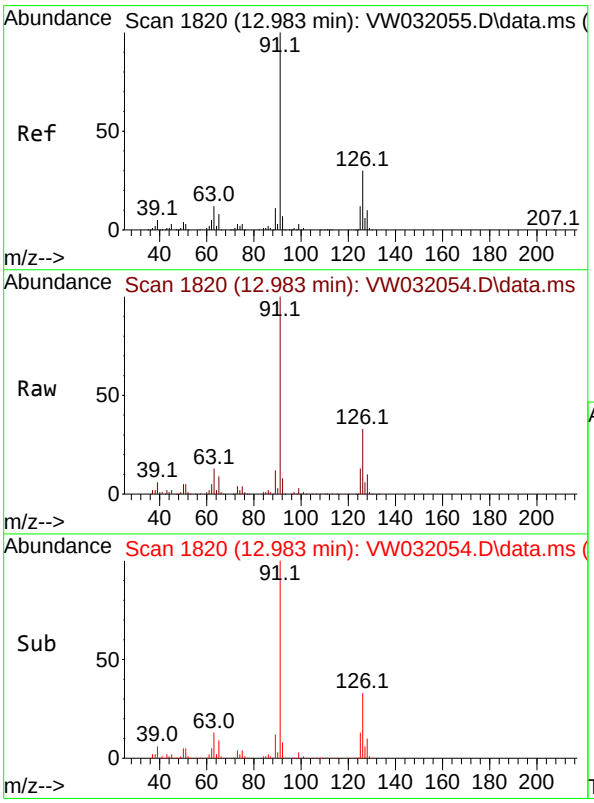
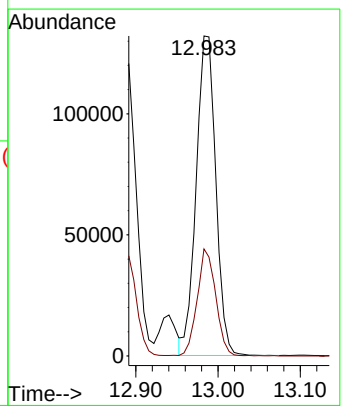


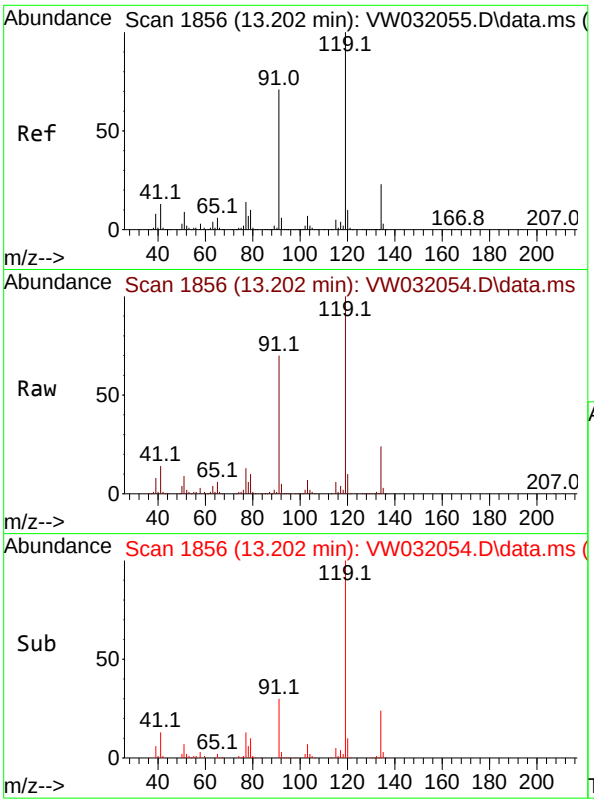


#82
4-Chlorotoluene
Concen: 20.253 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 218637

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.5	46.5

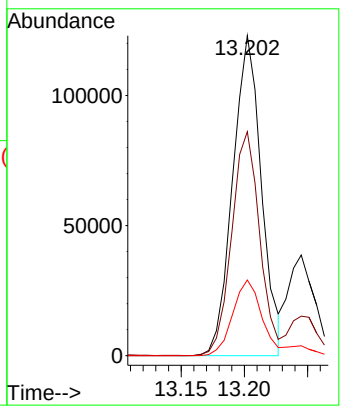




#83
tert-Butylbenzene
Concen: 20.608 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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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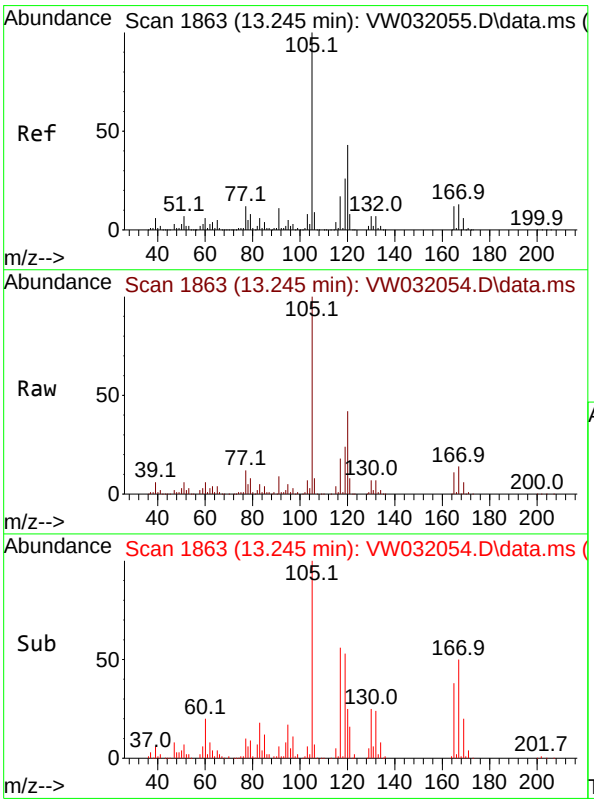
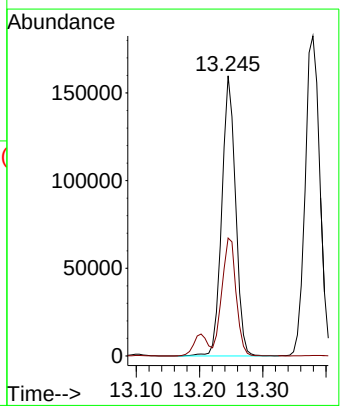
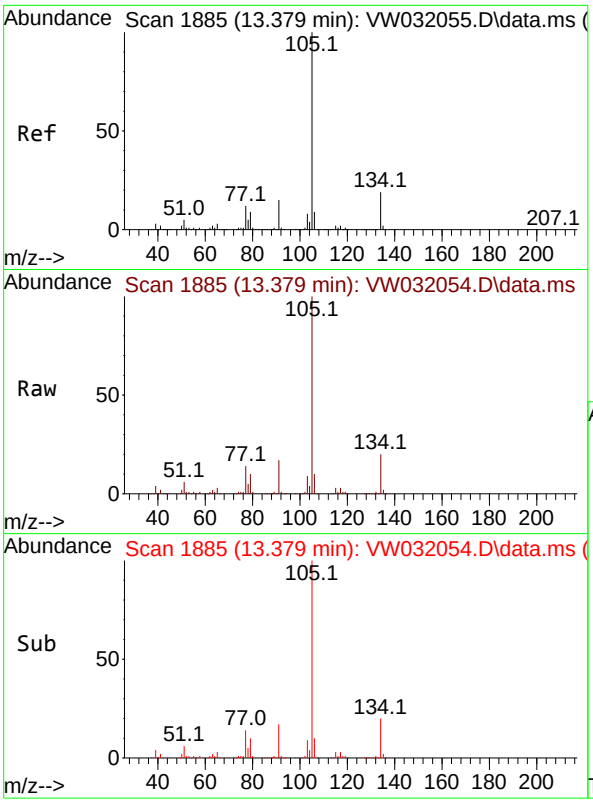


#84
1,2,4-Trimethylbenzene
Concen: 20.774 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 240078

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	64.8

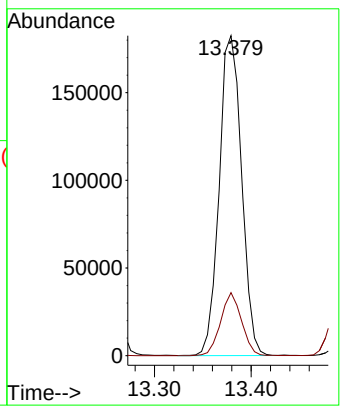




#85
sec-Butylbenzene
Concen: 20.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 29268

Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.9	29.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

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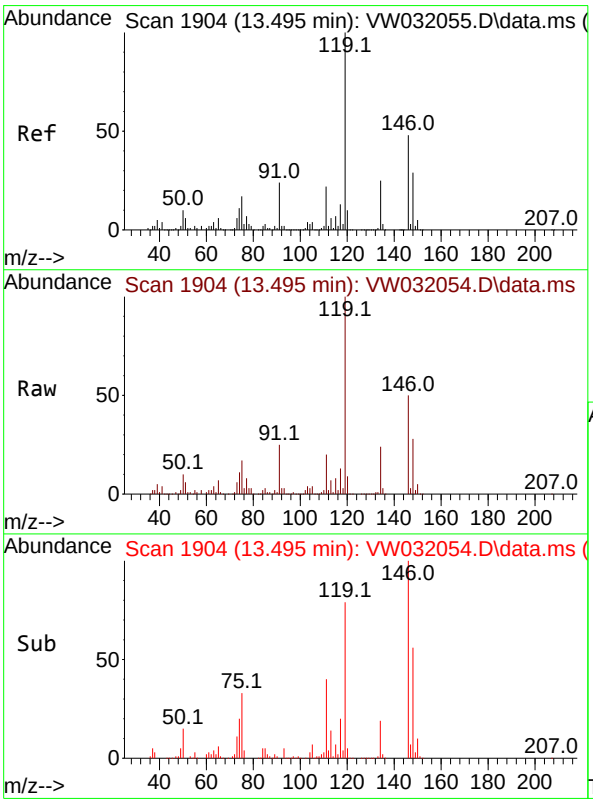
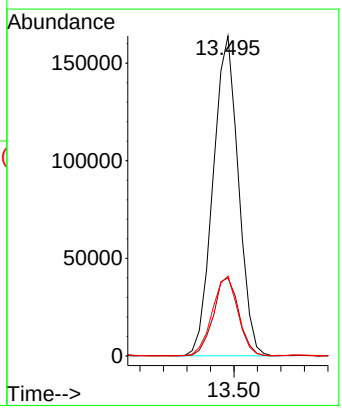
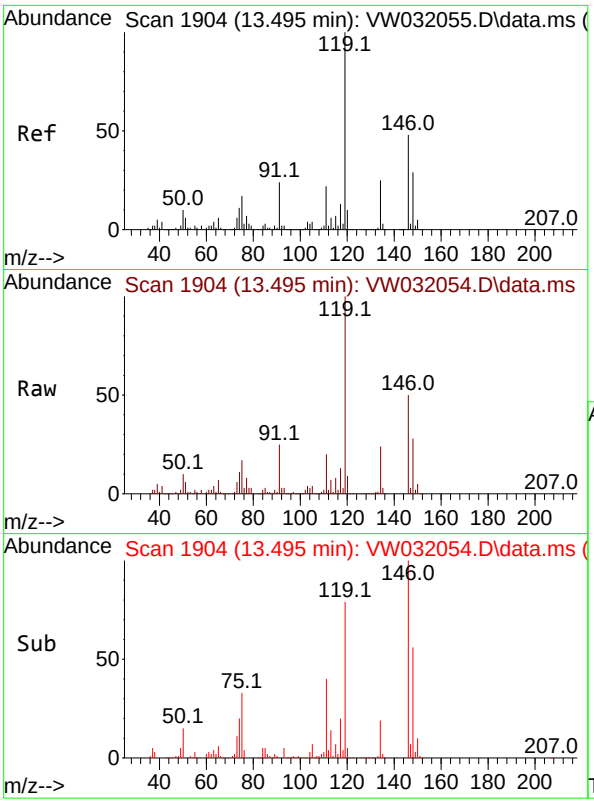


#86
p-Isopropyltoluene
Concen: 20.638 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

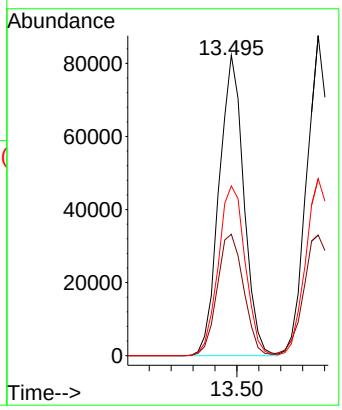




#87
1,3-Dichlorobenzene
Concen: 20.282 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

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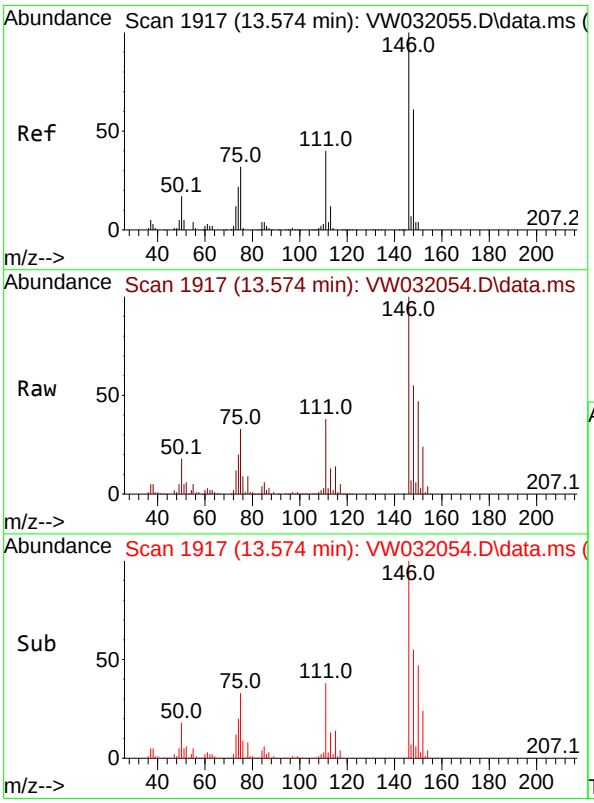
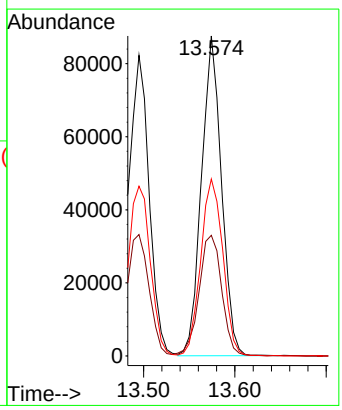
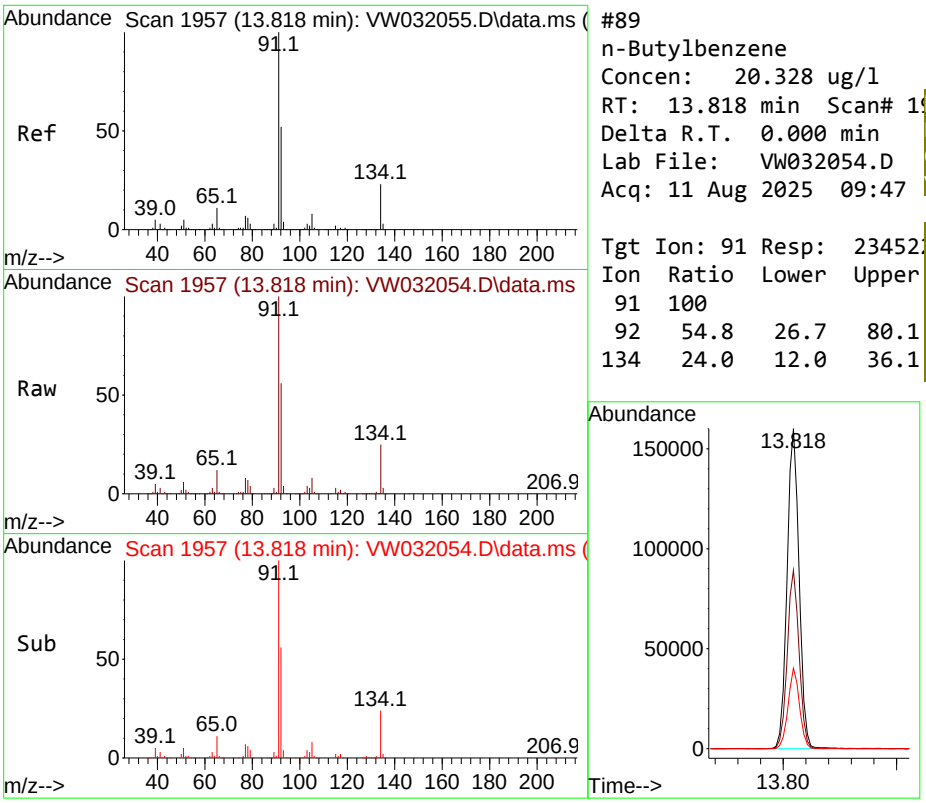


#88
1,4-Dichlorobenzene
Concen: 20.724 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

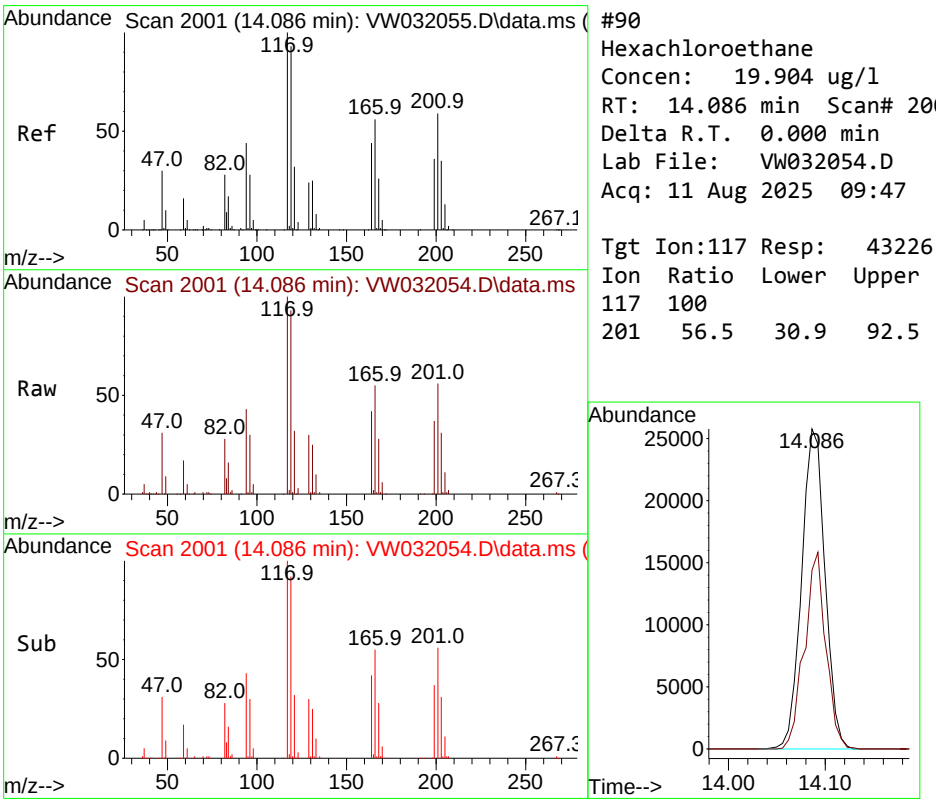
Tgt Ion: 91 Resp: 23452

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

Manual Integrations APPROVED

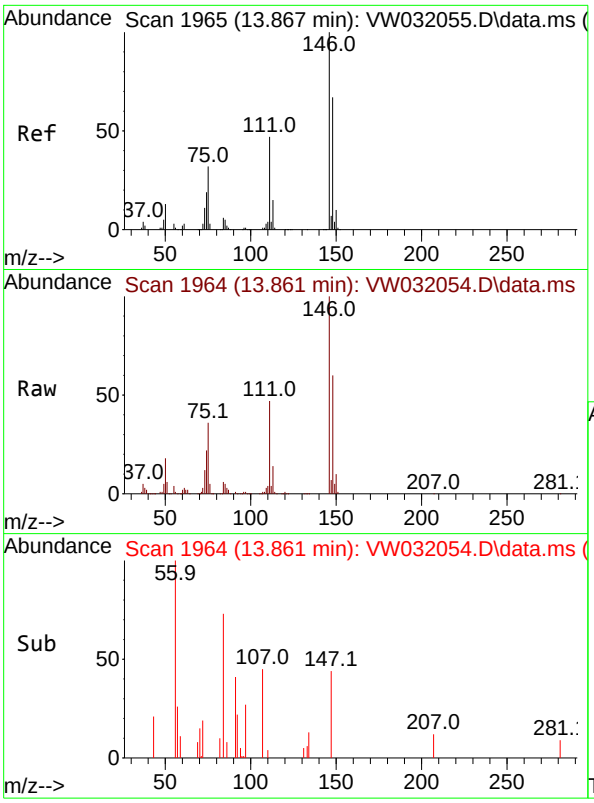
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#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

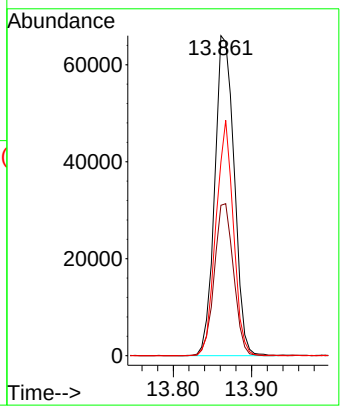
Ion	Ratio	Lower	Upper
117	100		
201	56.5	30.9	92.5



#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

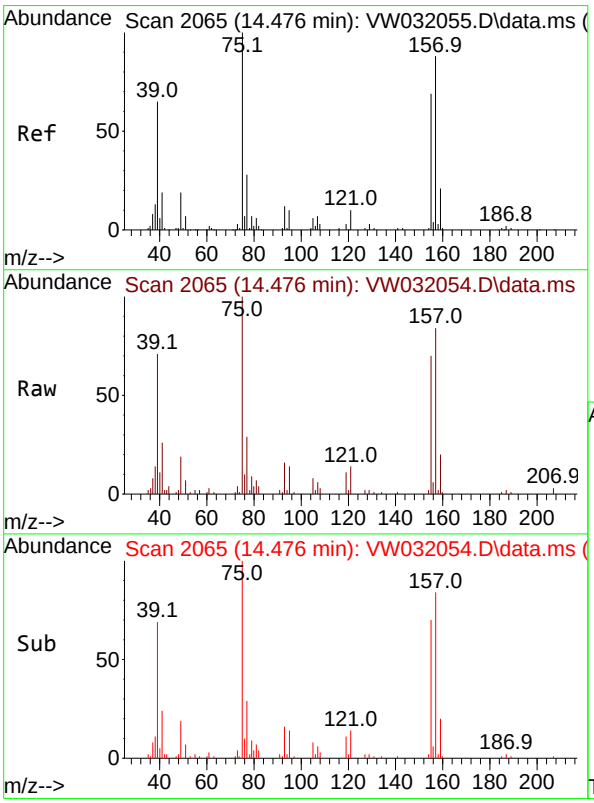
Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.1	69.3
148	66.0	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

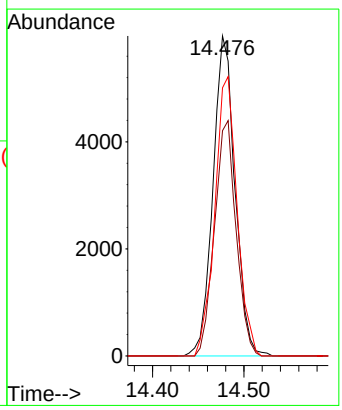
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

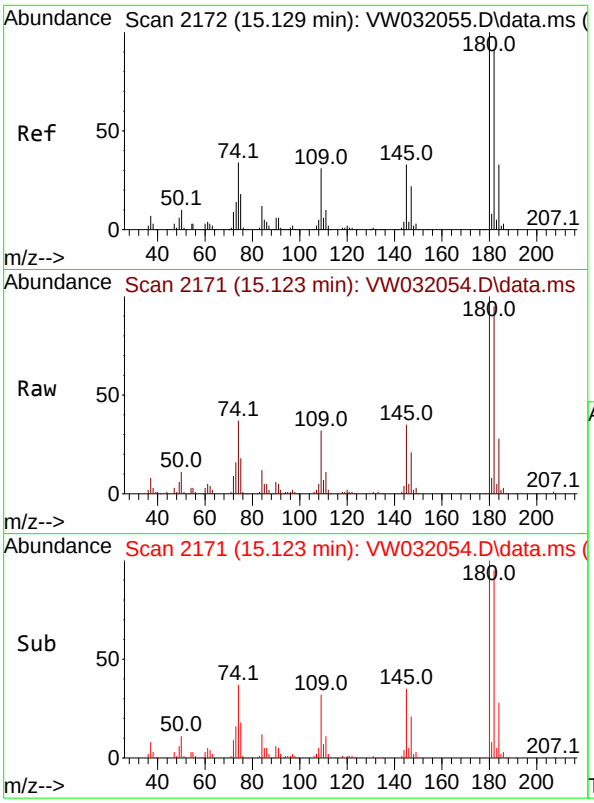


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

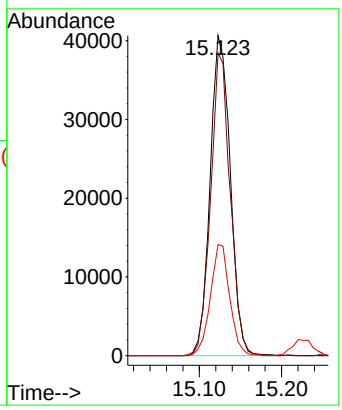




#93
1,2,4-Trichlorobenzene
Concen: 20.102 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:180 Resp: 6922

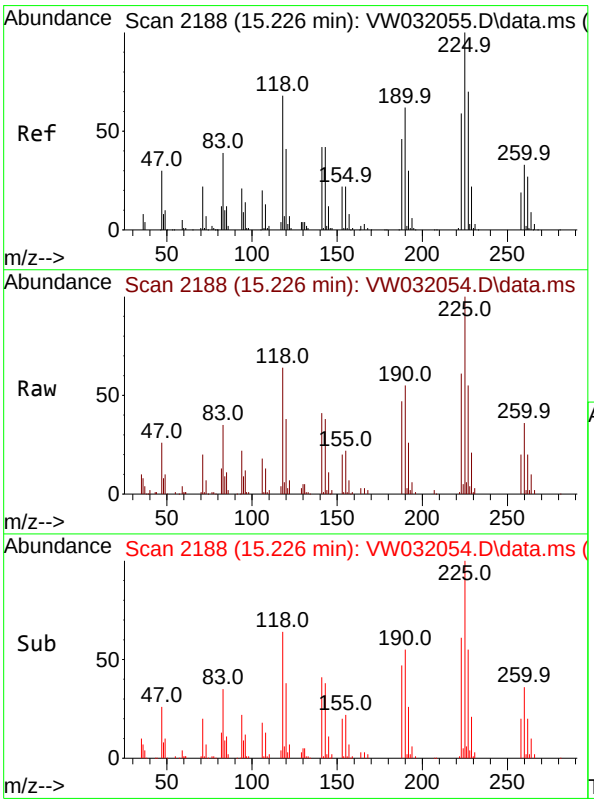
Ion	Ratio	Lower	Upper
180	100		
182	91.7	49.0	147.0
145	33.4	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

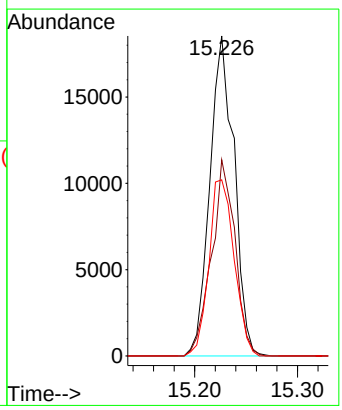
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

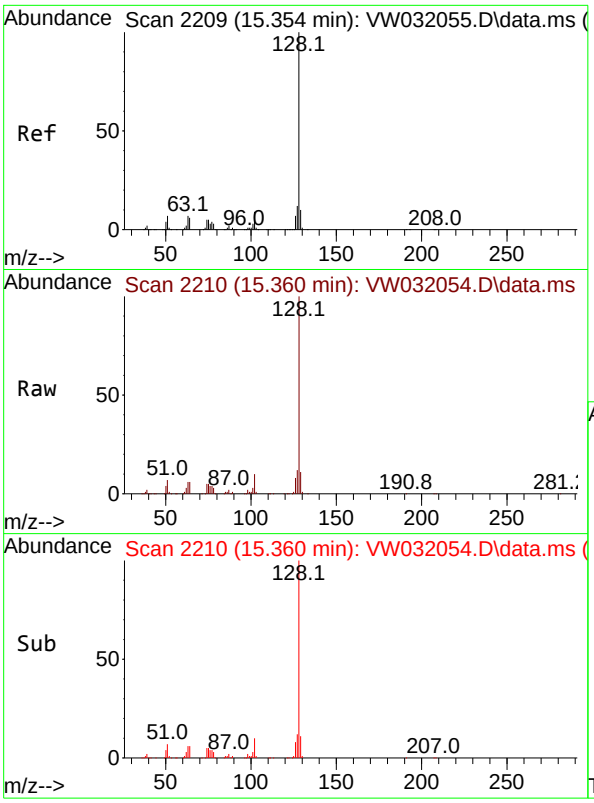


#94
Hexachlorobutadiene
Concen: 19.720 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

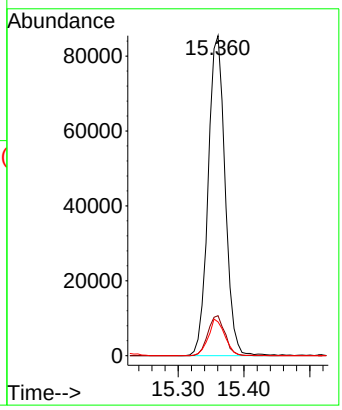




#95
Naphthalene
Concen: 18.147 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:128 Resp: 15313

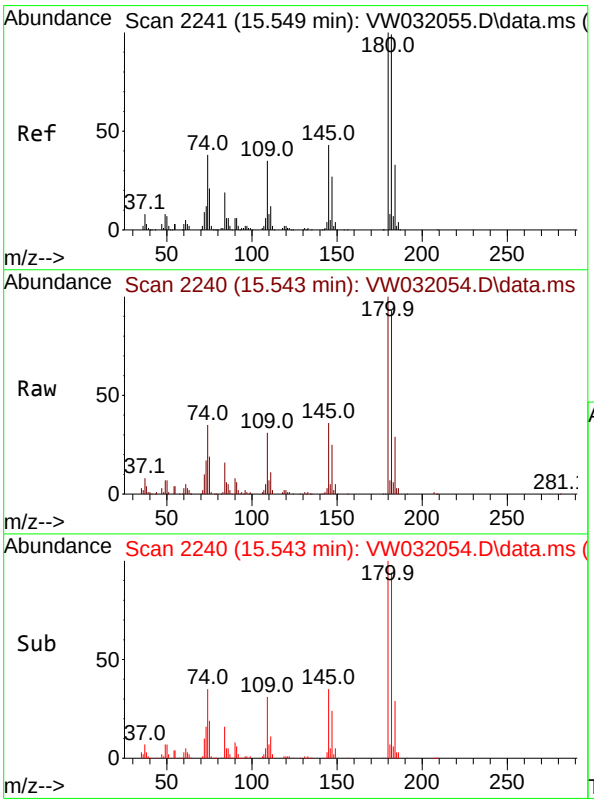
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	11.1	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

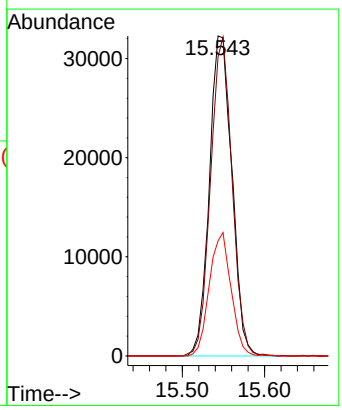
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#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



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

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

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

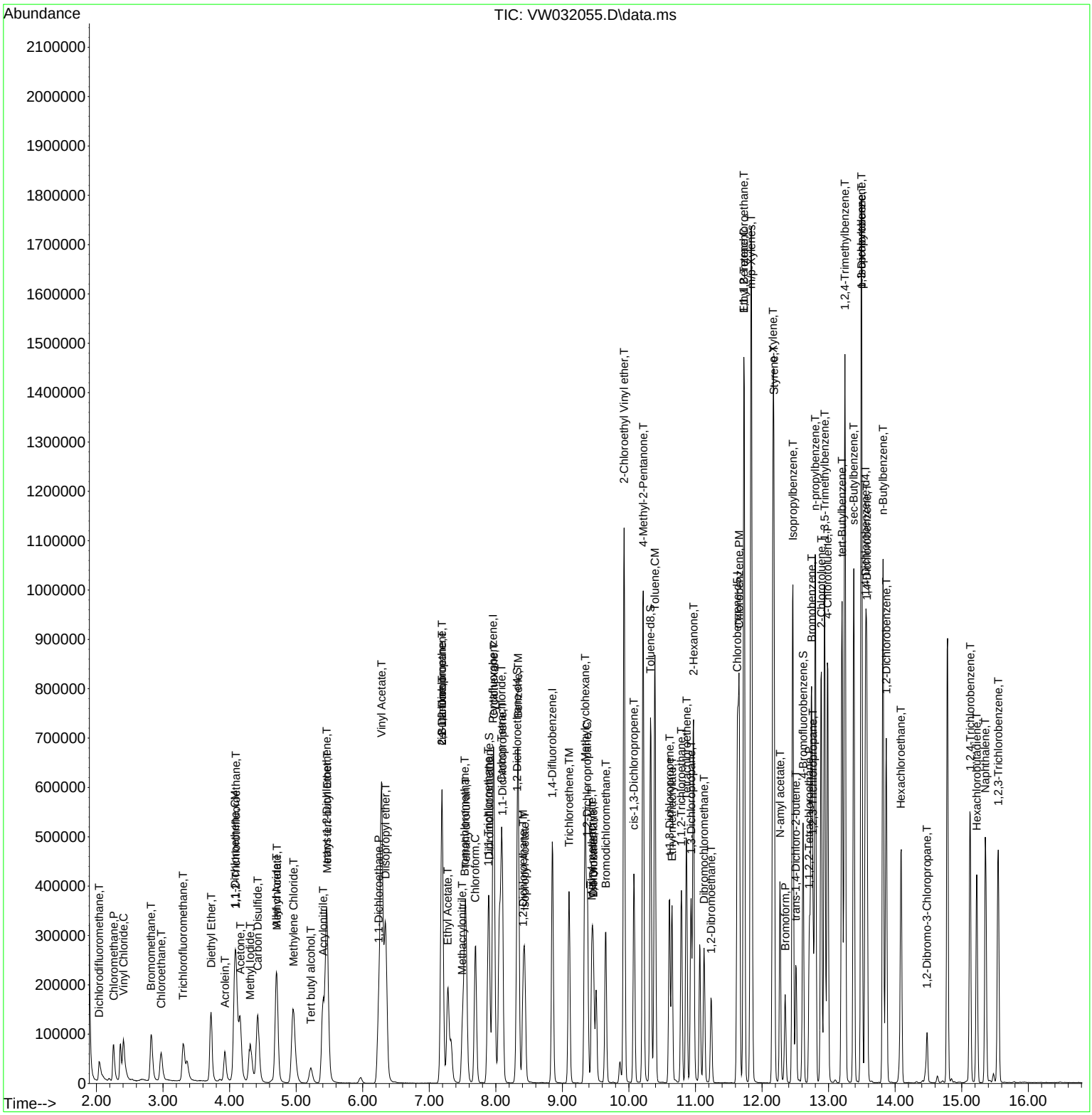
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

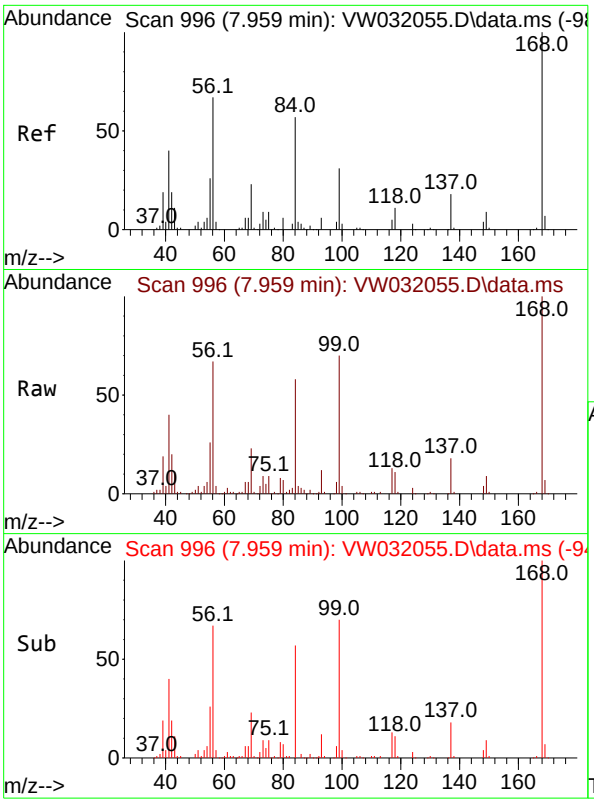
Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

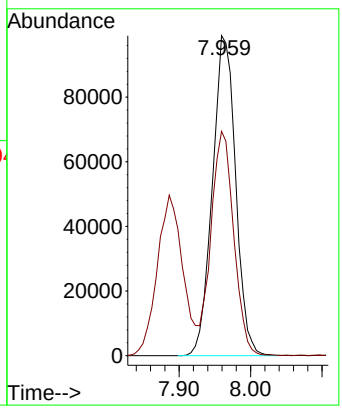




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:168 Resp: 22332

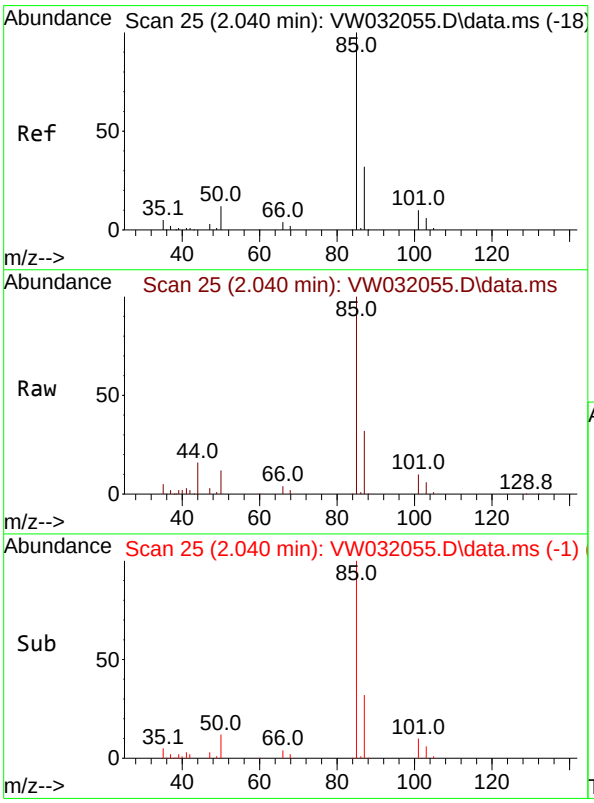
Ion	Ratio	Lower	Upper
168	100		
99	70.0	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

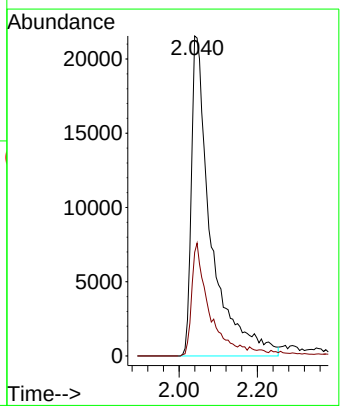
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

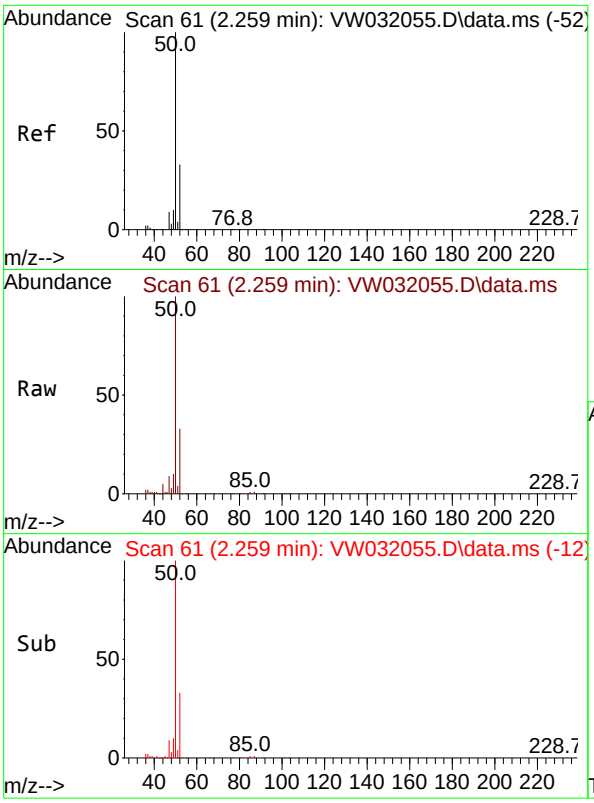


#2
Dichlorodifluoromethane
Concen: 47.015 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 85 Resp: 75096

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.2	48.6

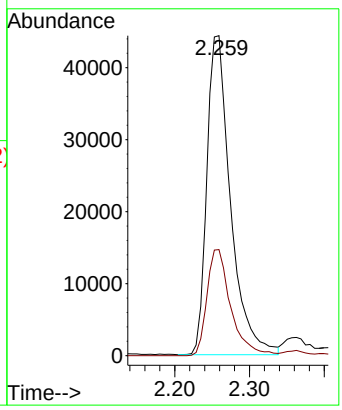




#3
Chloromethane
Concen: 45.418 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 50 Resp: 9771

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
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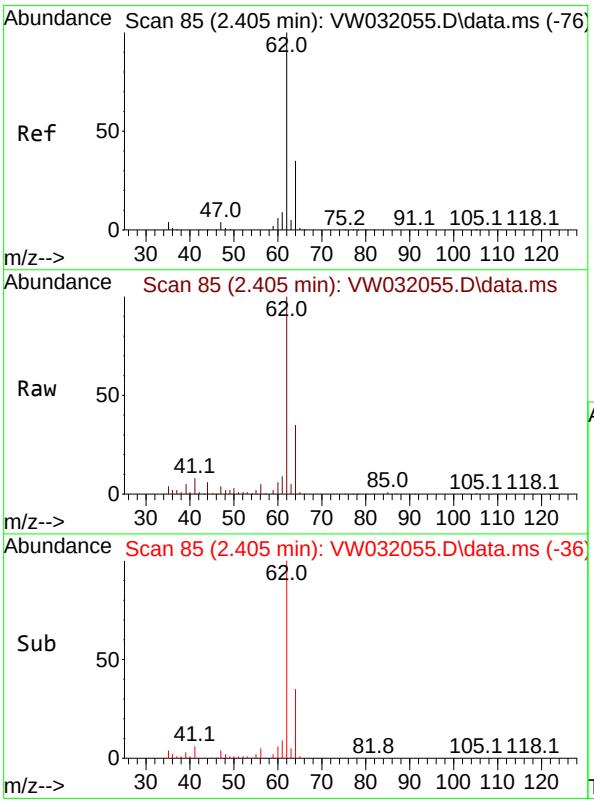
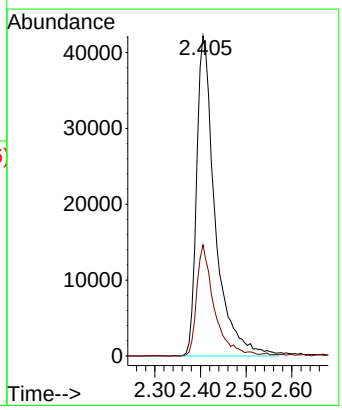
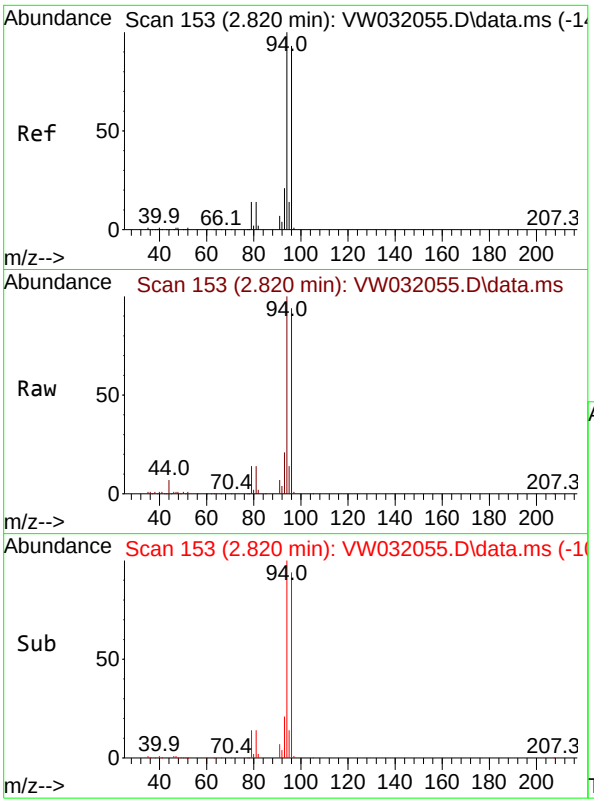


#4
Vinyl Chloride
Concen: 45.486 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 118378

Ion	Ratio	Lower	Upper
62	100		
64	34.7	27.8	41.6

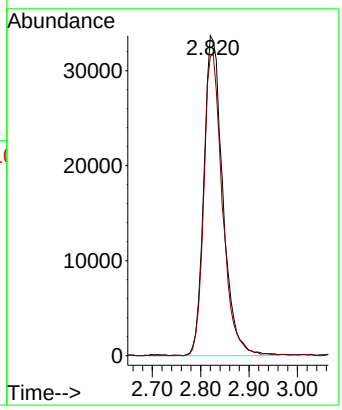




#5
Bromomethane
Concen: 46.991 ug/l
RT: 2.820 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 94 Resp: 9174

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.7	112.1



Instrument :
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ClientSampleId :
VSTDICCC050

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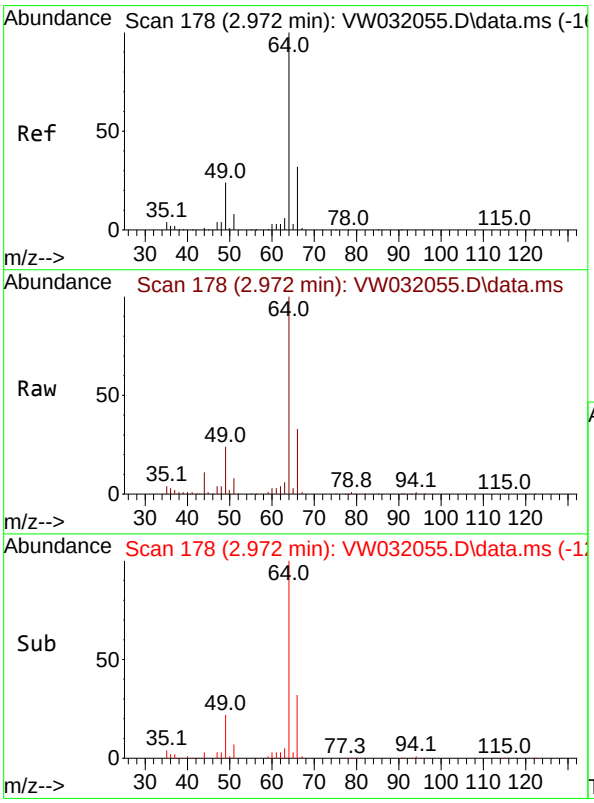
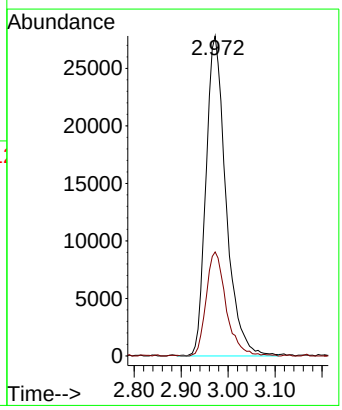
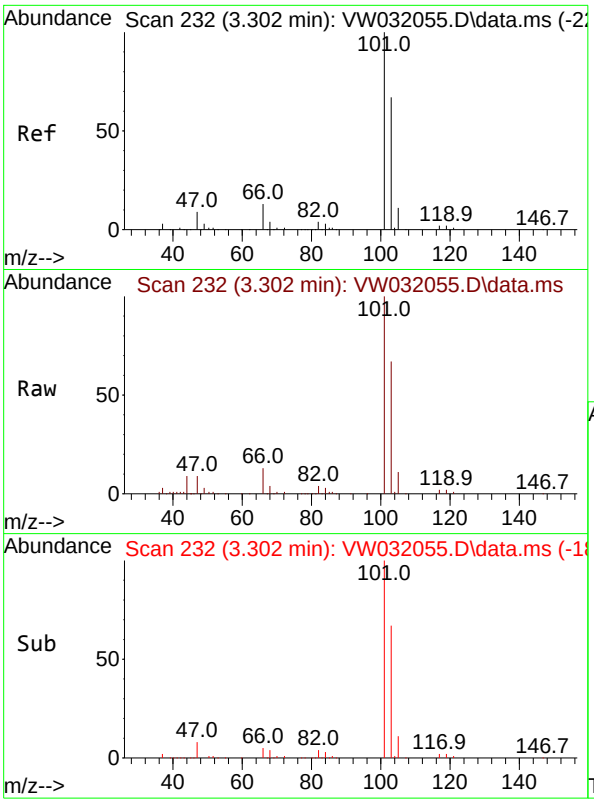


#6
Chloroethane
Concen: 47.641 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 64 Resp: 82045

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.0	39.0

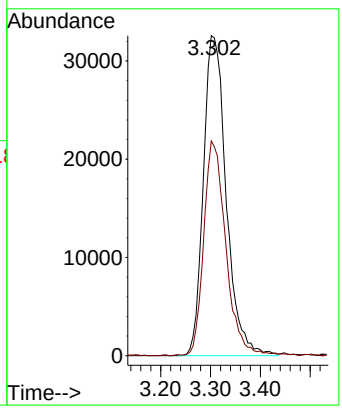




#7
Trichlorofluoromethane
Concen: 49.743 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:101 Resp: 10370

Ion	Ratio	Lower	Upper
101	100		
103	66.7	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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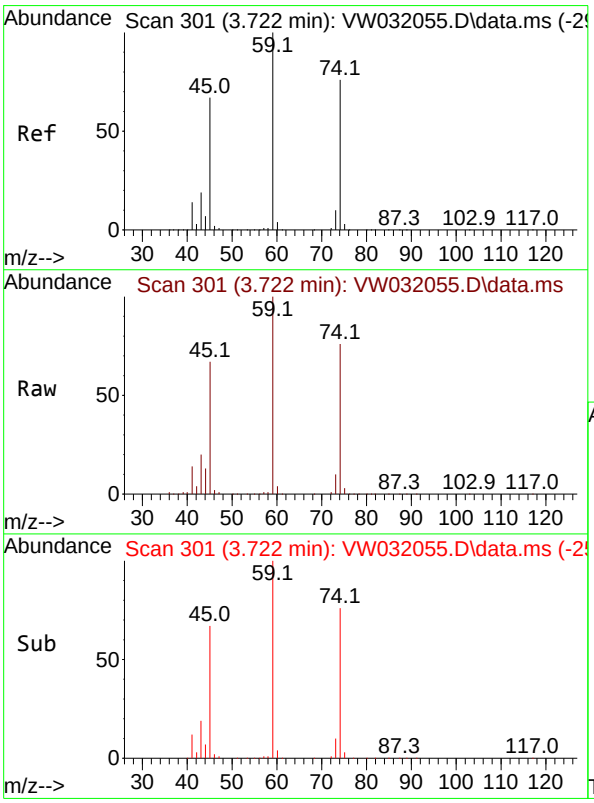
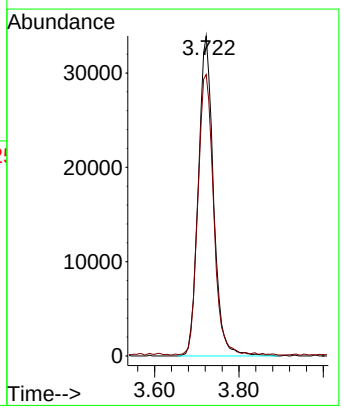
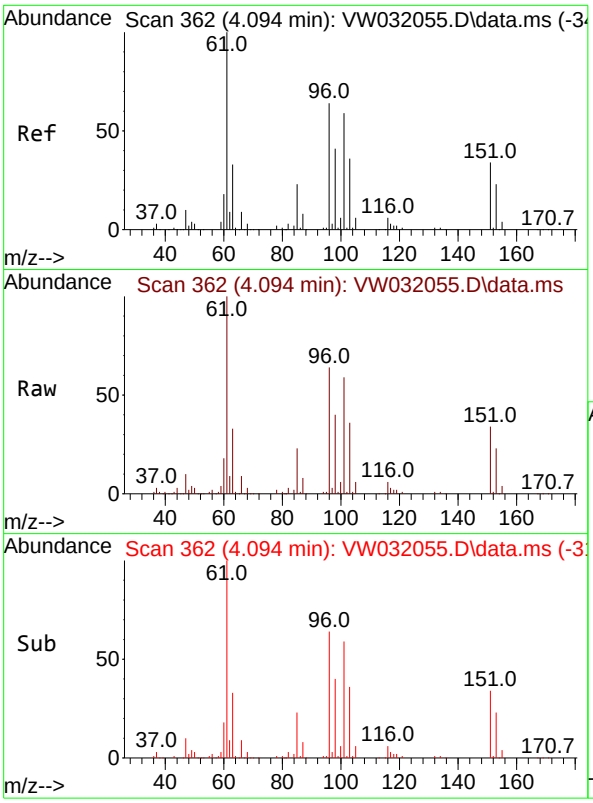


#8
Diethyl Ether
Concen: 49.624 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

Instrument :
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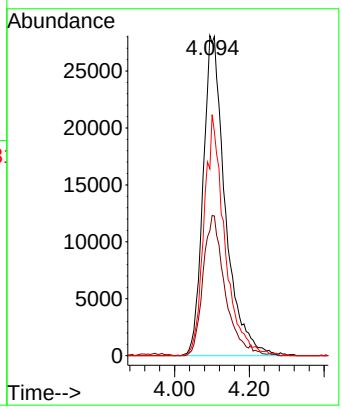
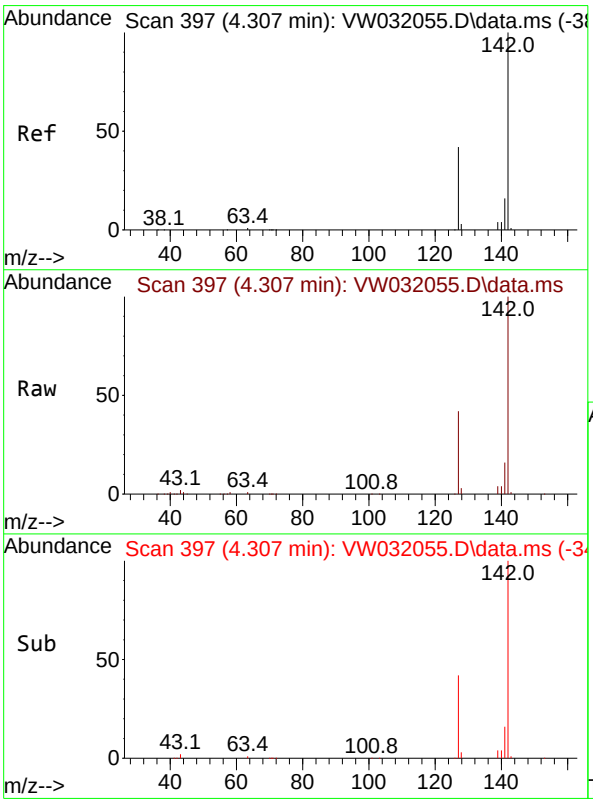
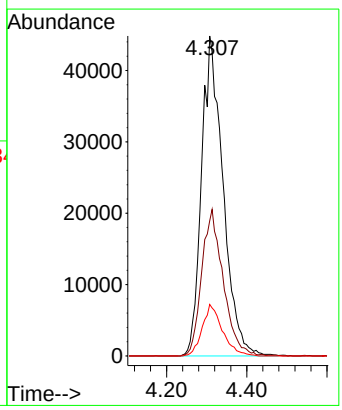


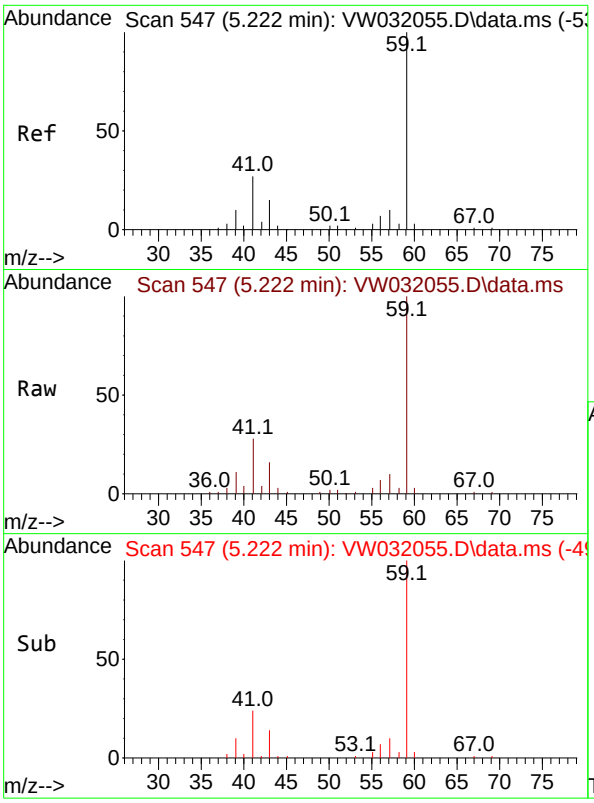


#10
Methyl Iodide
Concen: 47.909 ug/l
RT: 4.307 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

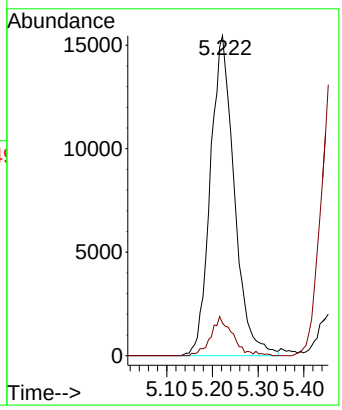




#11
Tert butyl alcohol
Concen: 269.294 ug/l
RT: 5.222 min Scan# 54
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 59 Resp: 5632

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1



Instrument :
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ClientSampleId :
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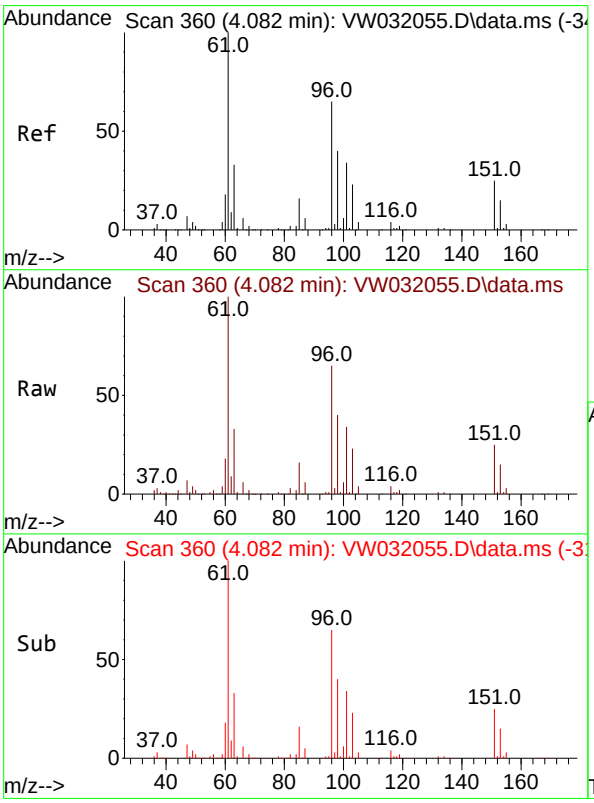
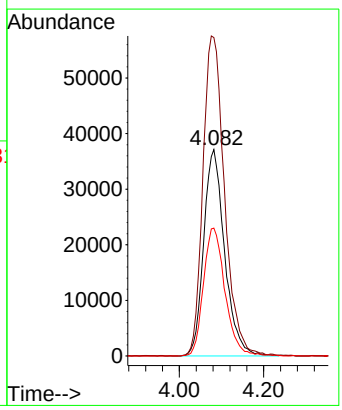
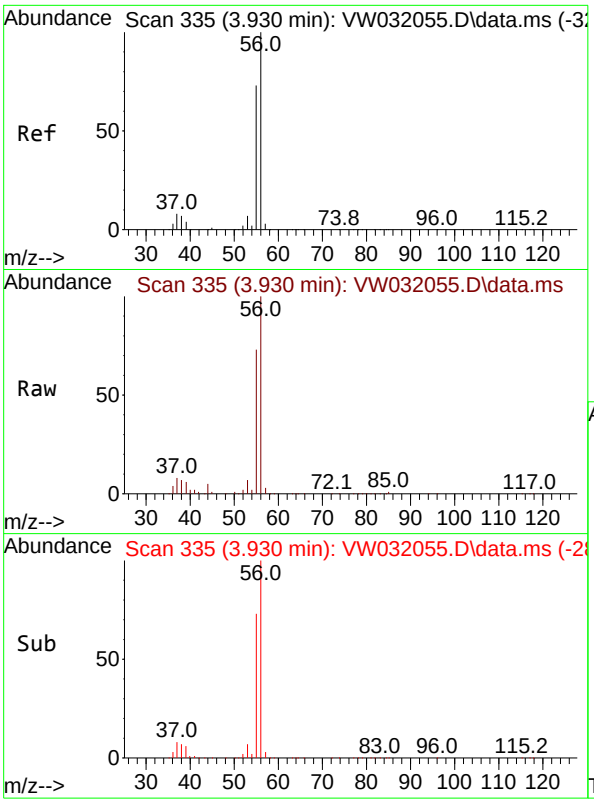


#12
1,1-Dichloroethene
Concen: 47.373 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

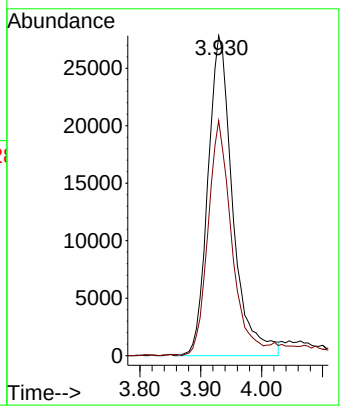




#13
Acrolein
Concen: 236.637 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 56 Resp: 7885

Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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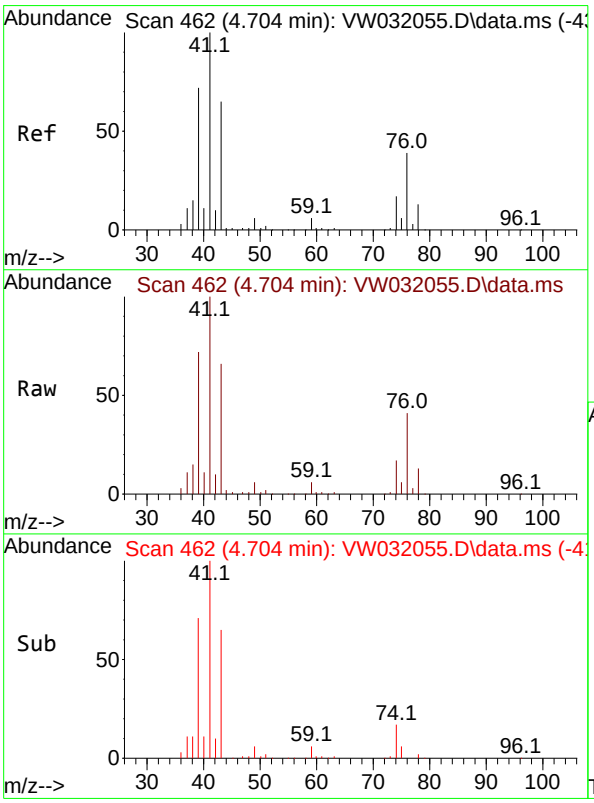
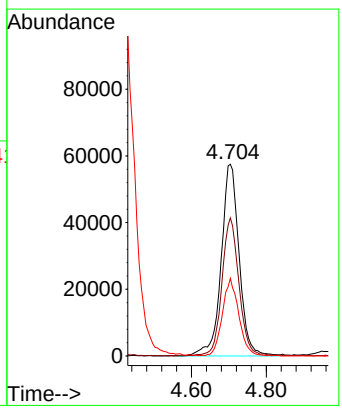
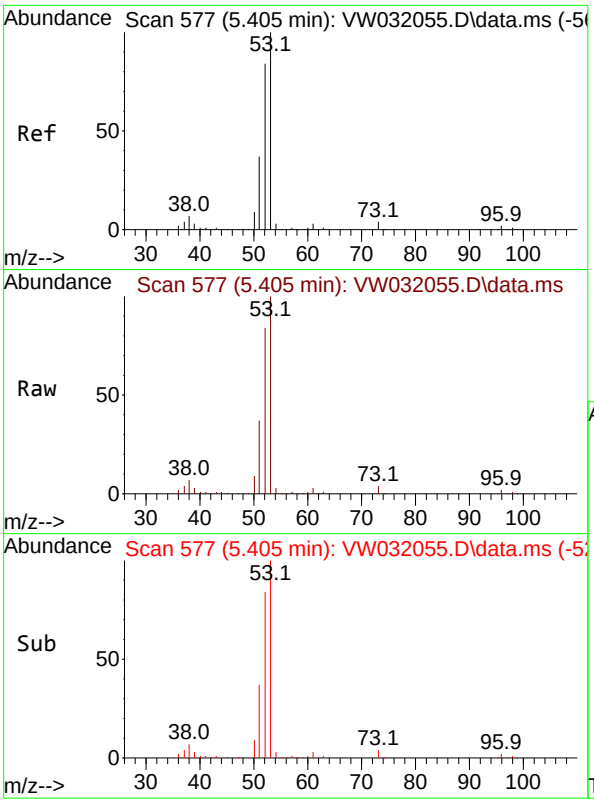


#14
Allyl chloride
Concen: 48.819 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

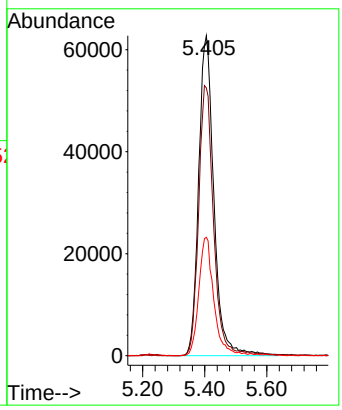




#15
Acrylonitrile
Concen: 262.963 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



Instrument :
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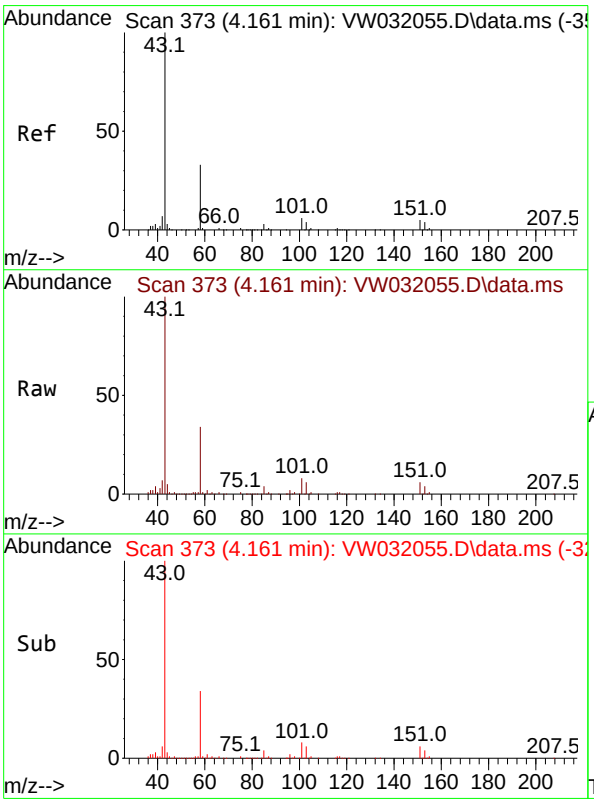
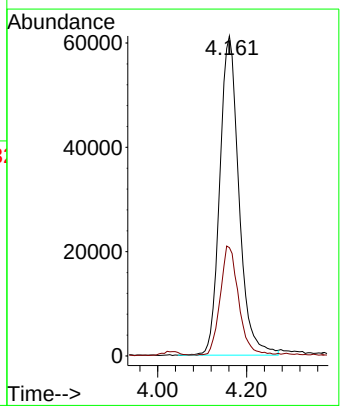
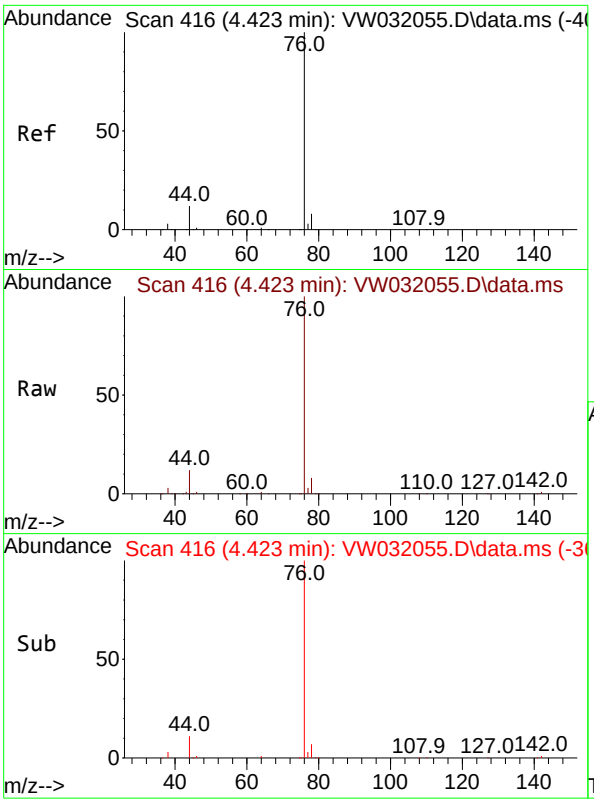


#16
Acetone
Concen: 244.127 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 182559

Ion	Ratio	Lower	Upper
43	100		
58	33.2	26.6	39.8

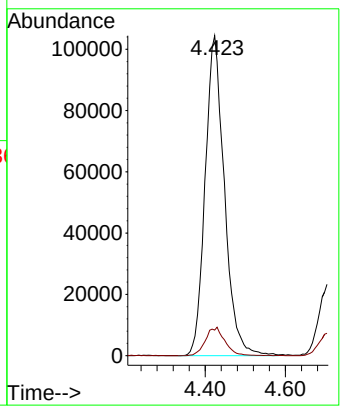




#17
Carbon Disulfide
Concen: 47.836 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 76 Resp: 34775

Ion	Ratio	Lower	Upper
76	100		
78	8.0	6.4	9.6



Instrument :
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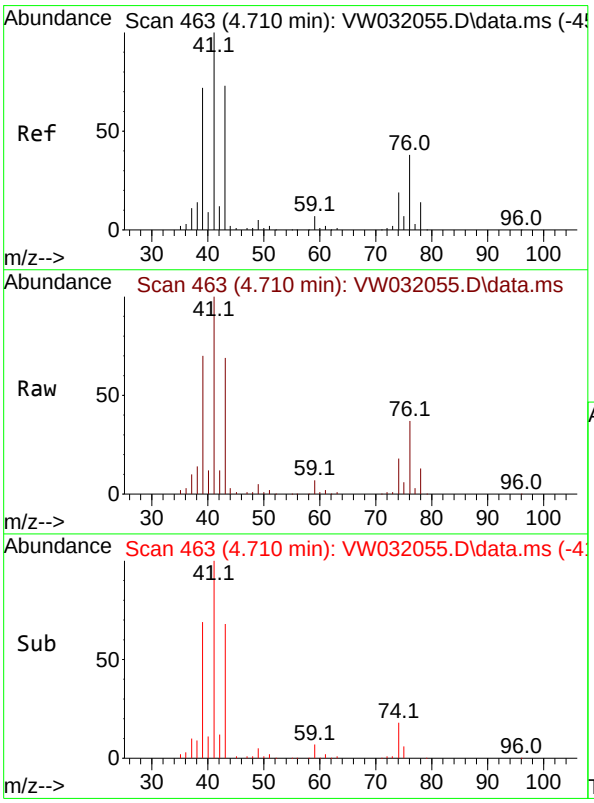
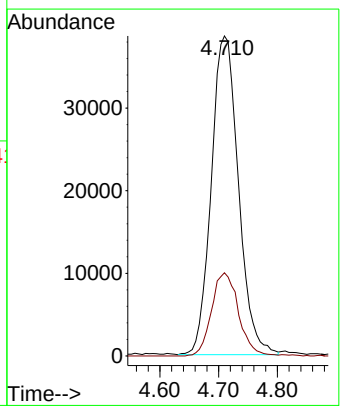
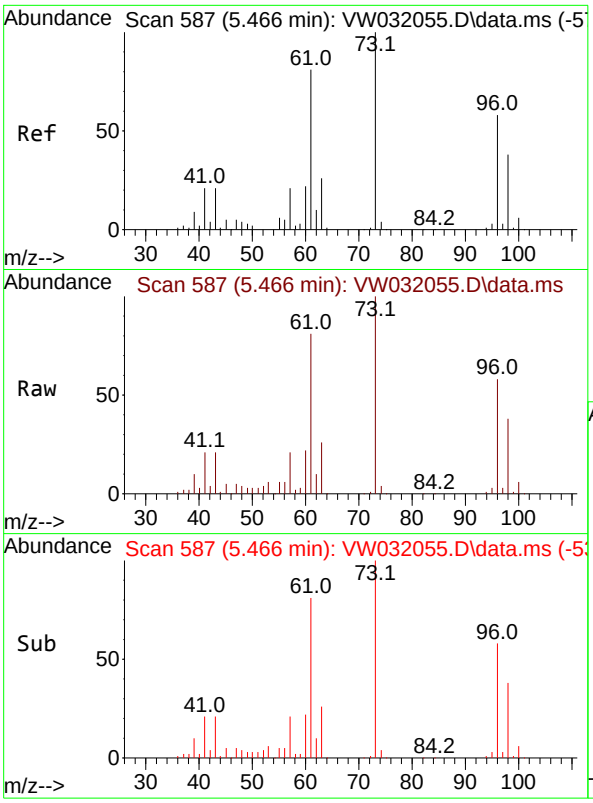


#18
Methyl Acetate
Concen: 52.361 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 123902

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.6	31.0

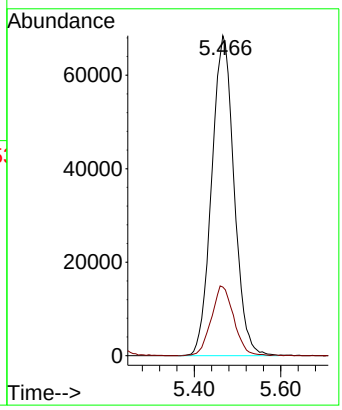




#19
Methyl tert-butyl Ether
Concen: 51.560 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 73 Resp: 24604

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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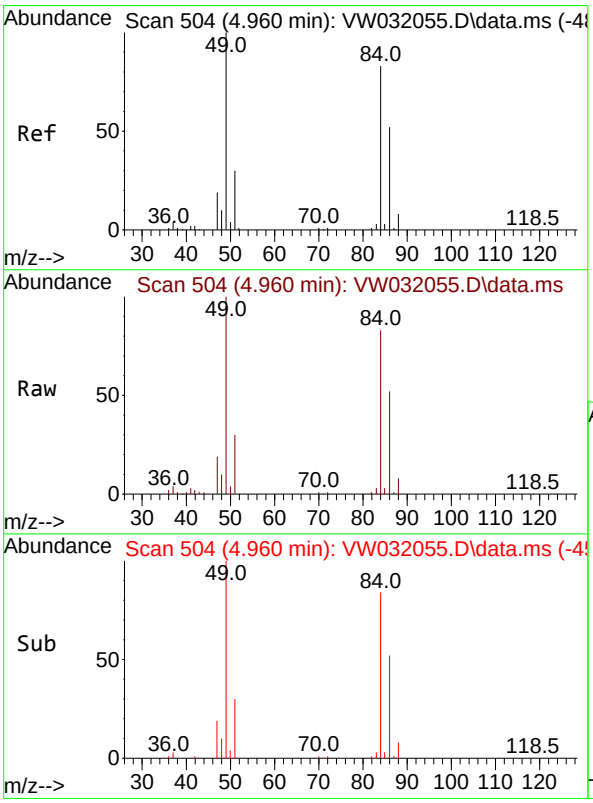
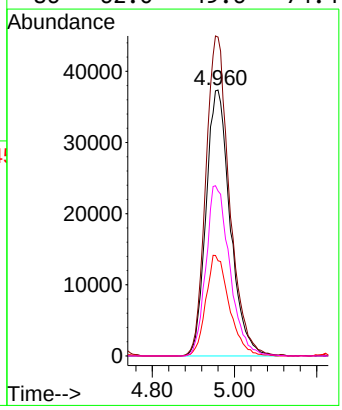
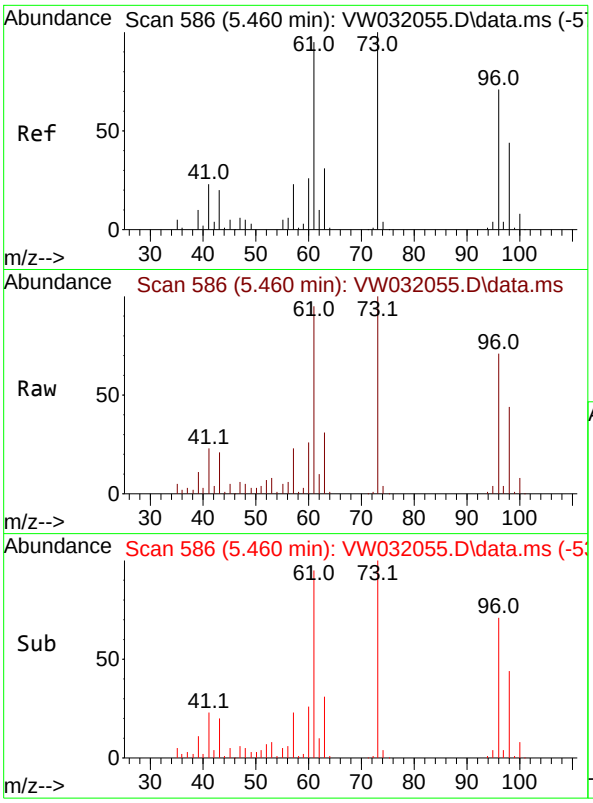


#20
Methylene Chloride
Concen: 44.016 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

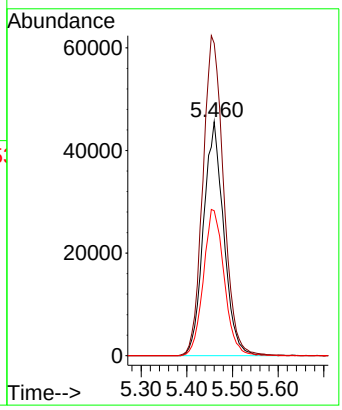




#21
trans-1,2-Dichloroethene
Concen: 48.707 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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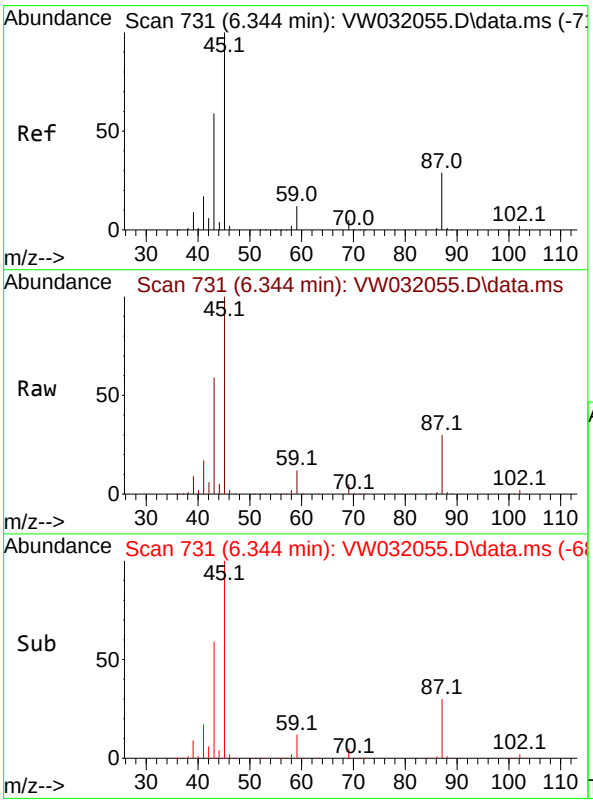
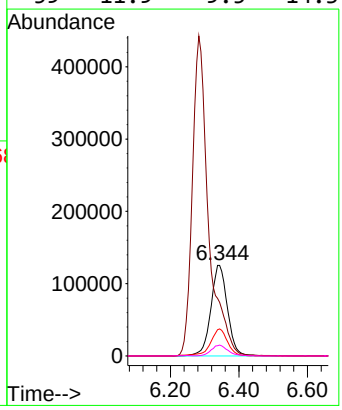
Supervised By :Semsettin Yesilyurt 08/12/2025

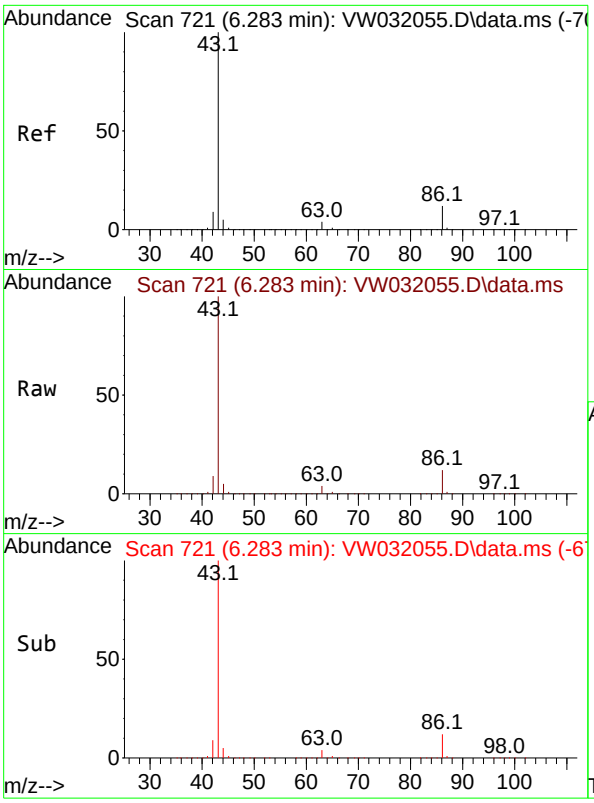


#22
Diisopropyl ether
Concen: 50.751 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

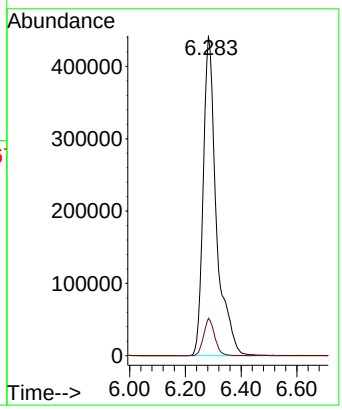




#23
Vinyl Acetate
Concen: 265.873 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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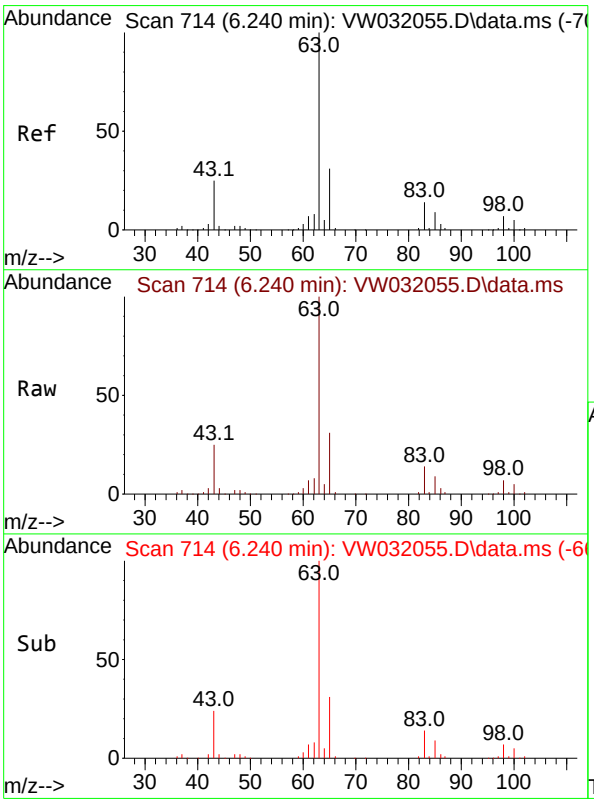
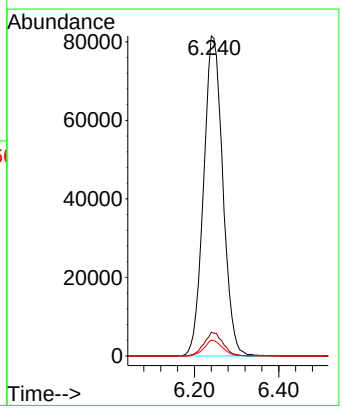
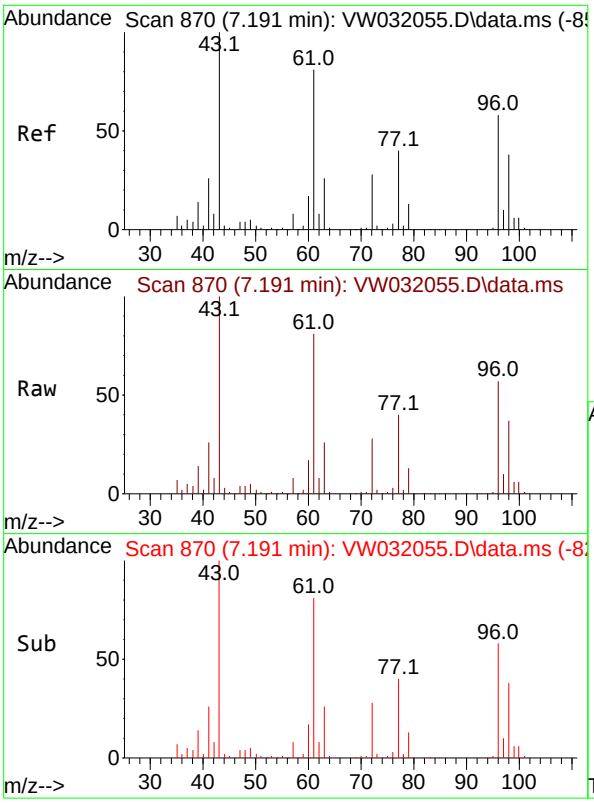


#24
1,1-Dichloroethane
Concen: 48.646 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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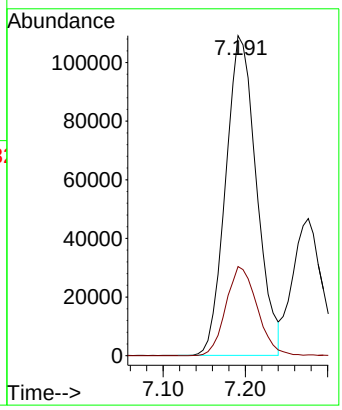
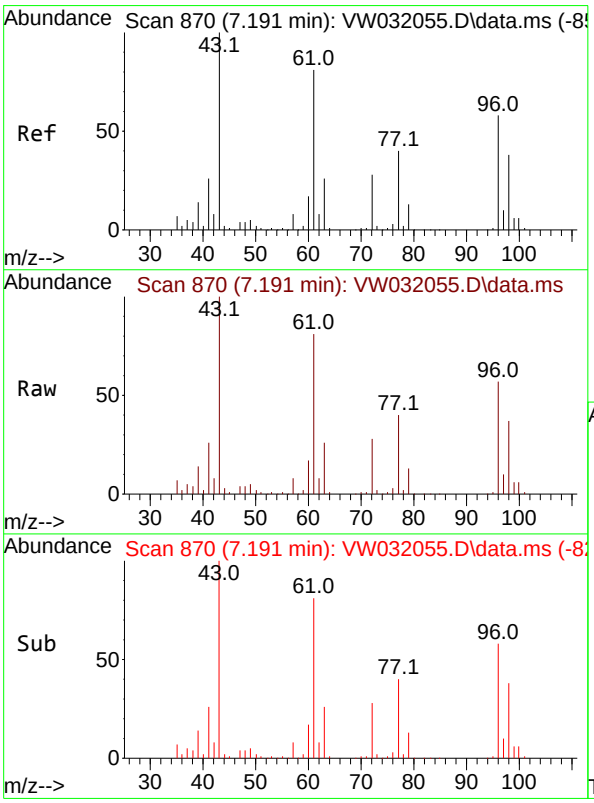
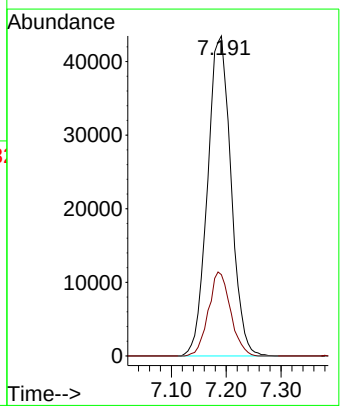


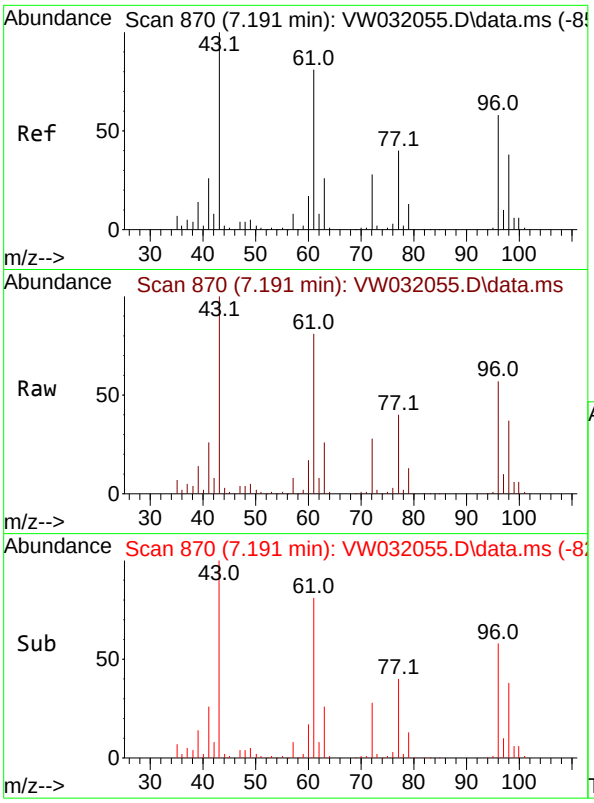


#26
2,2-Dichloropropane
Concen: 48.578 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 77 Resp: 129390

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.3	36.9

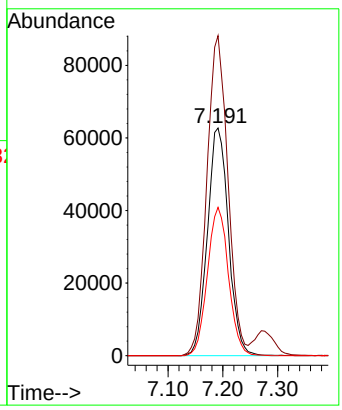




#27
cis-1,2-Dichloroethene
Concen: 49.779 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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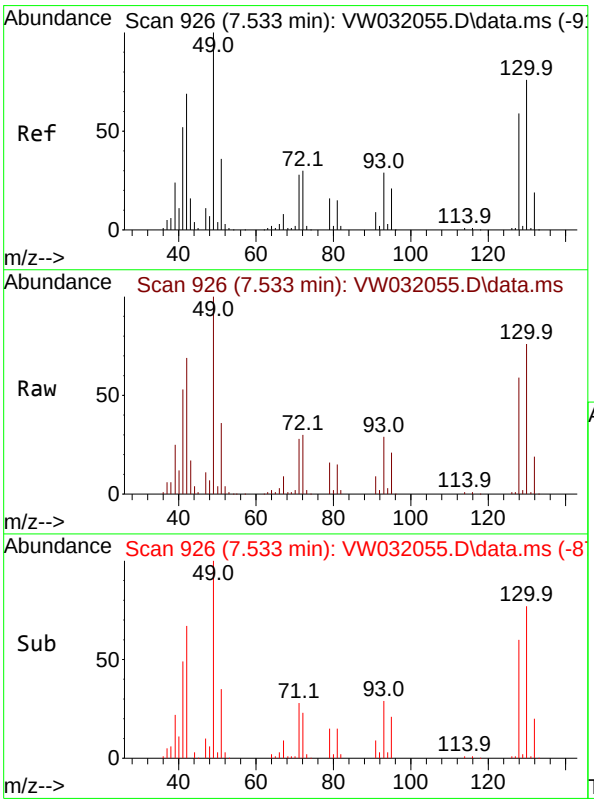
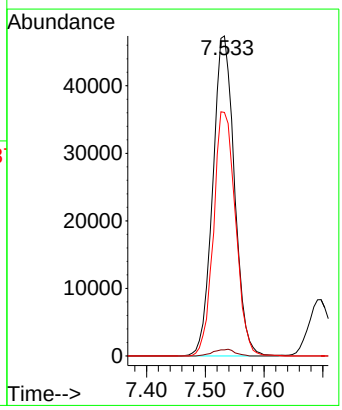
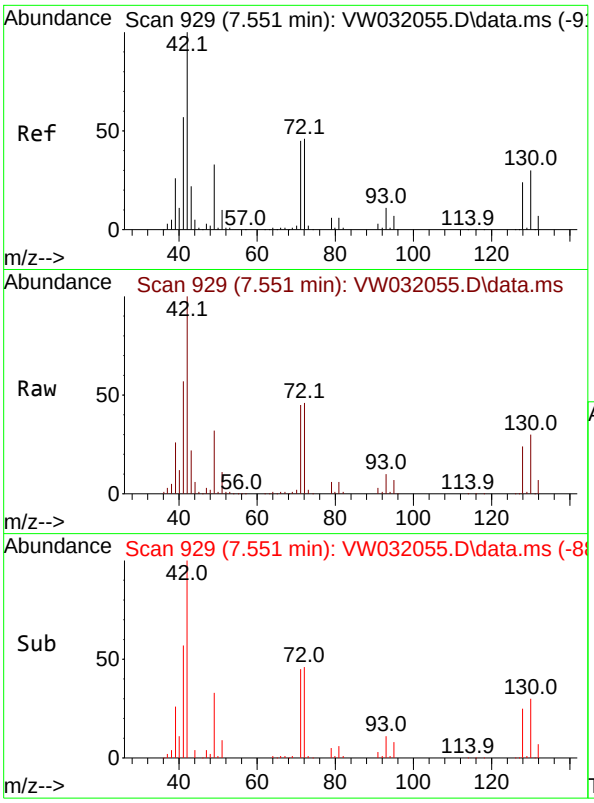


#28
Bromochloromethane
Concen: 50.191 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

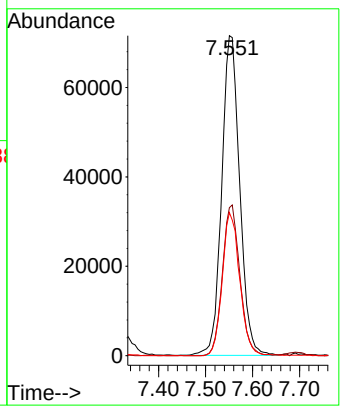




#29
Tetrahydrofuran
Concen: 272.100 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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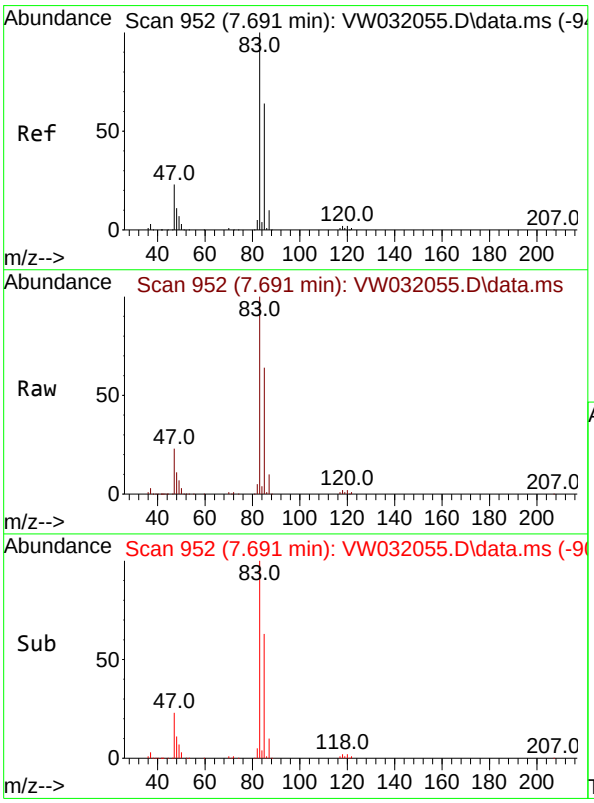
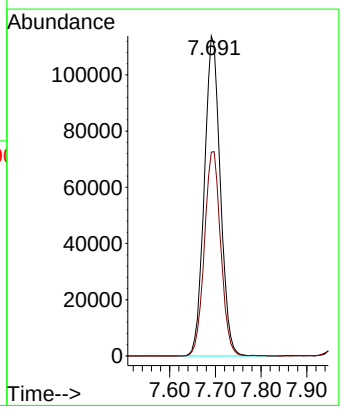
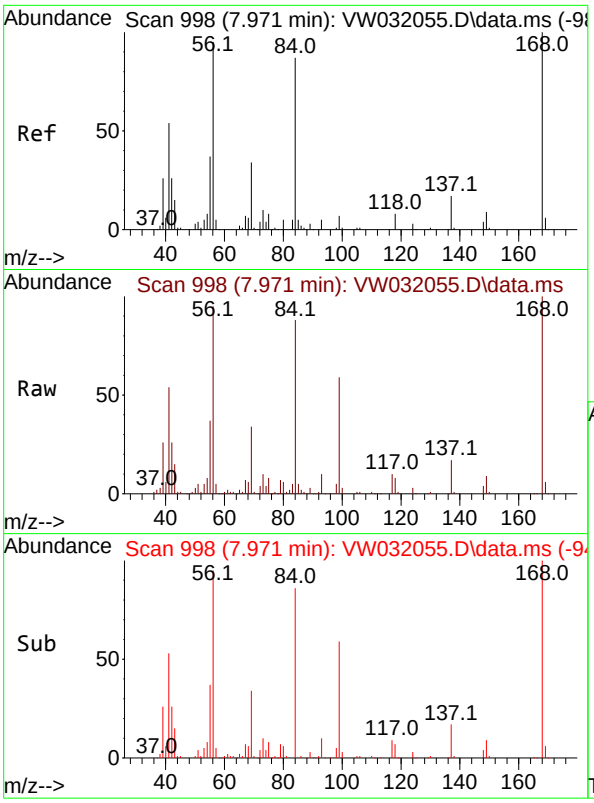


#30
Chloroform
Concen: 49.018 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 275905

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.4

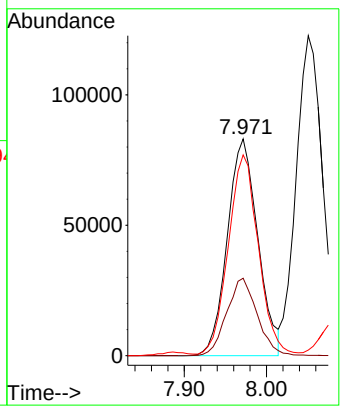




#31
Cyclohexane
Concen: 46.622 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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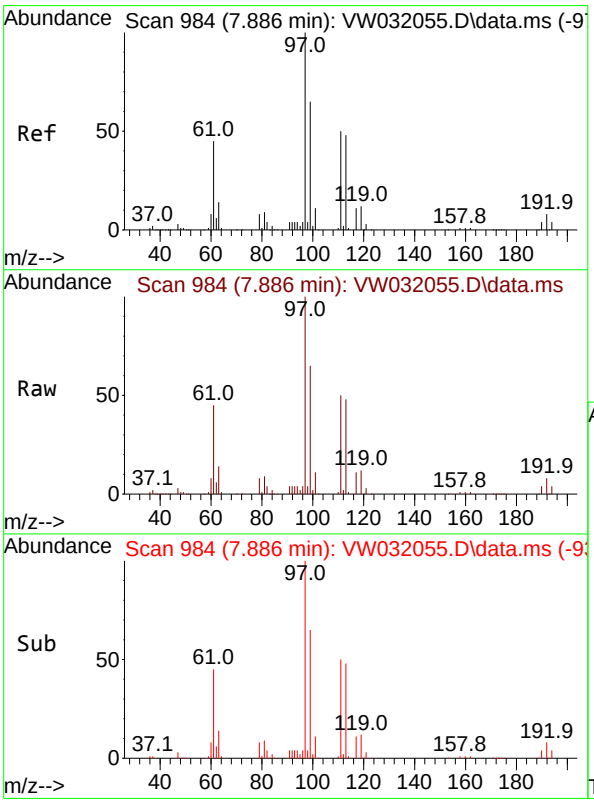
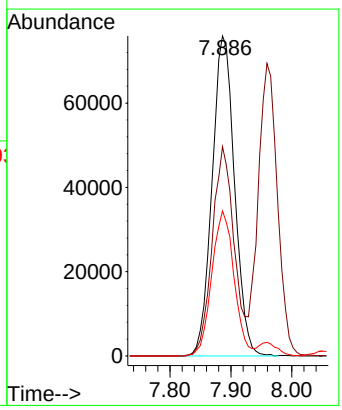
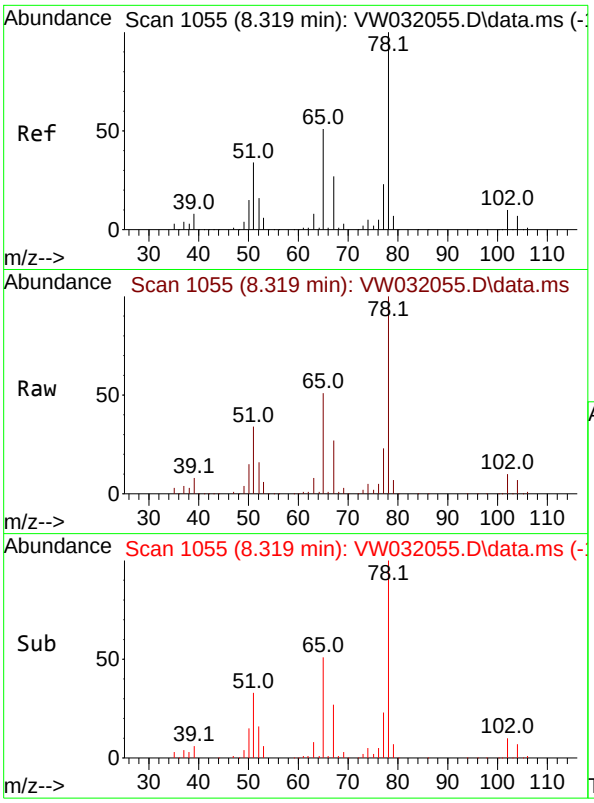


#32
1,1,1-Trichloroethane
Concen: 47.617 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

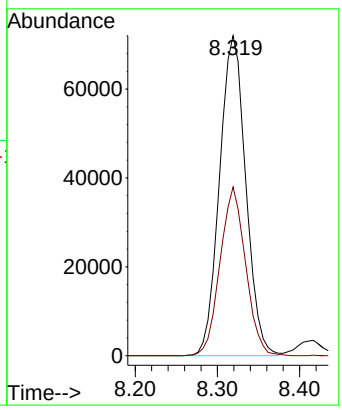




#33
1,2-Dichloroethane-d4
Concen: 49.529 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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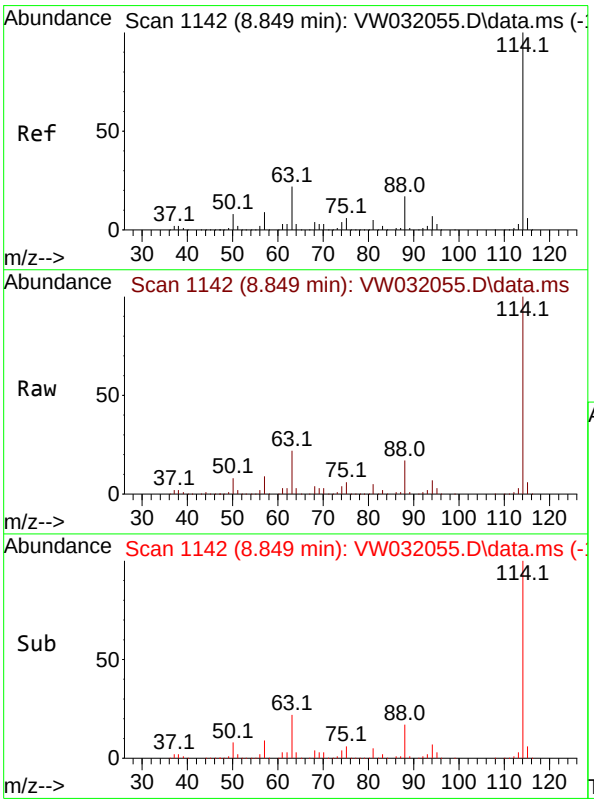
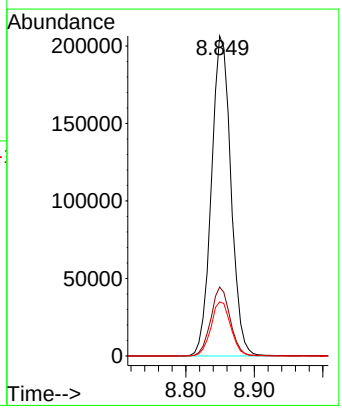
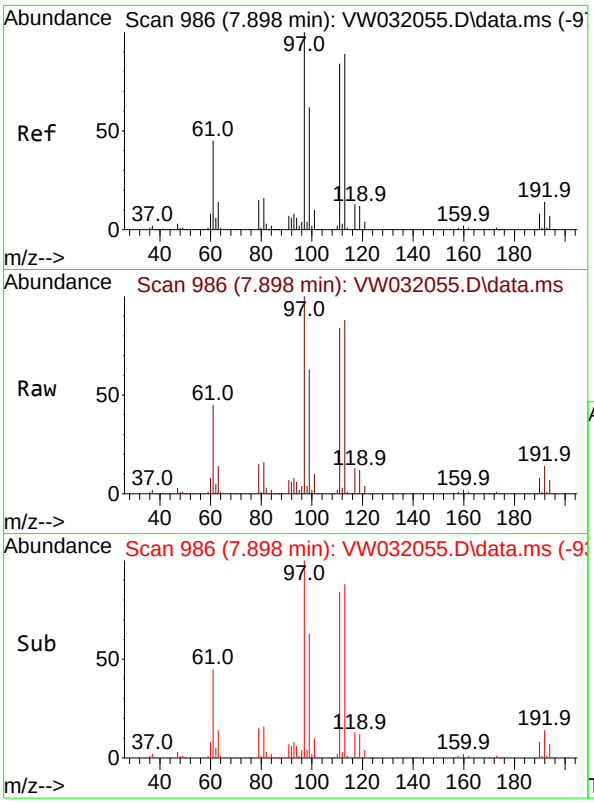


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

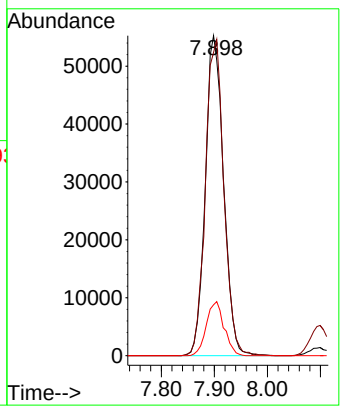




#35
Dibromofluoromethane
Concen: 50.279 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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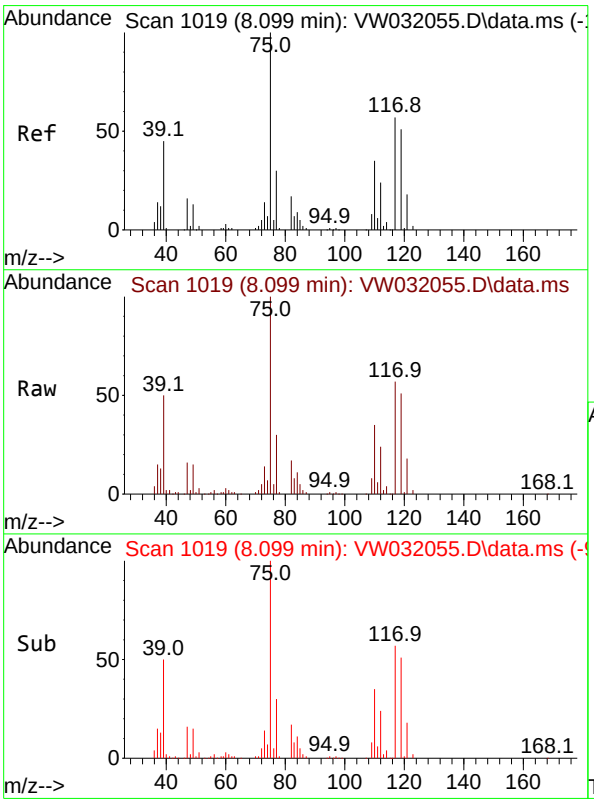
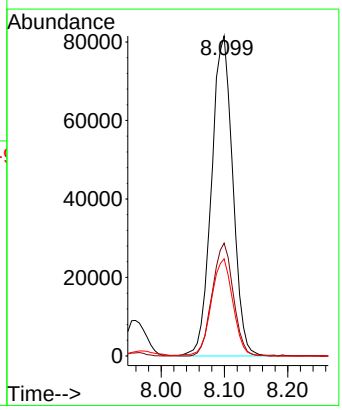
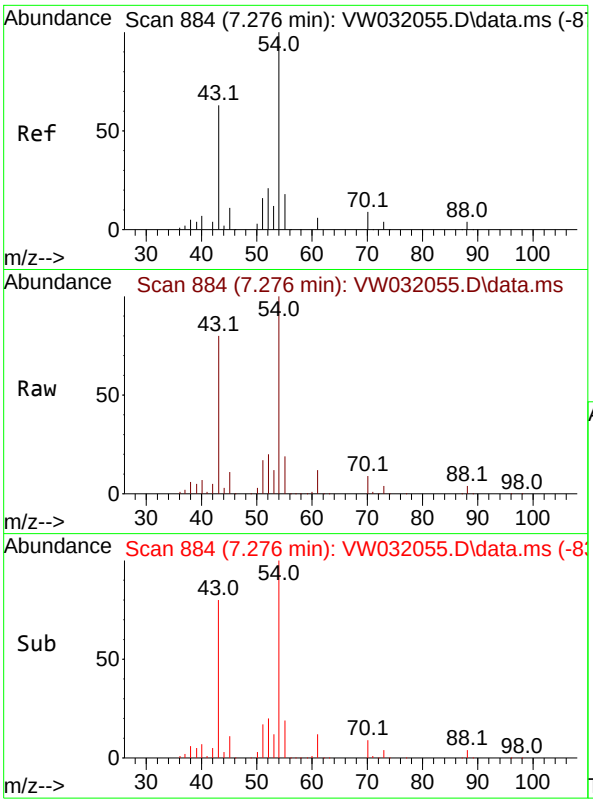


#36
1,1-Dichloropropene
Concen: 51.274 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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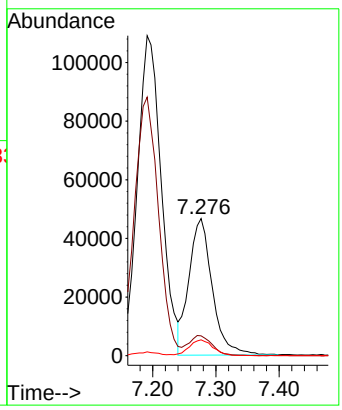
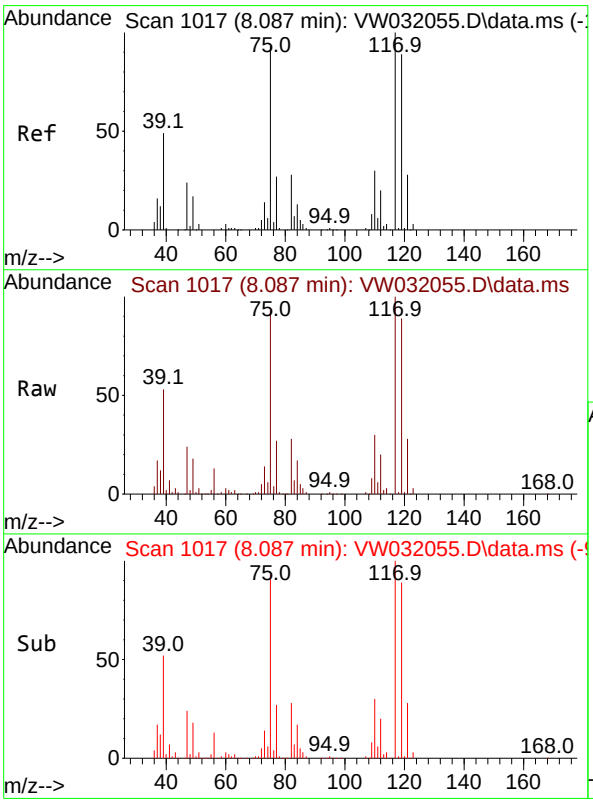
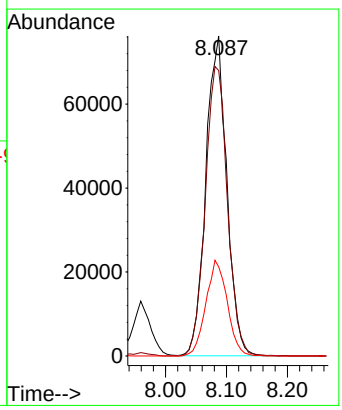


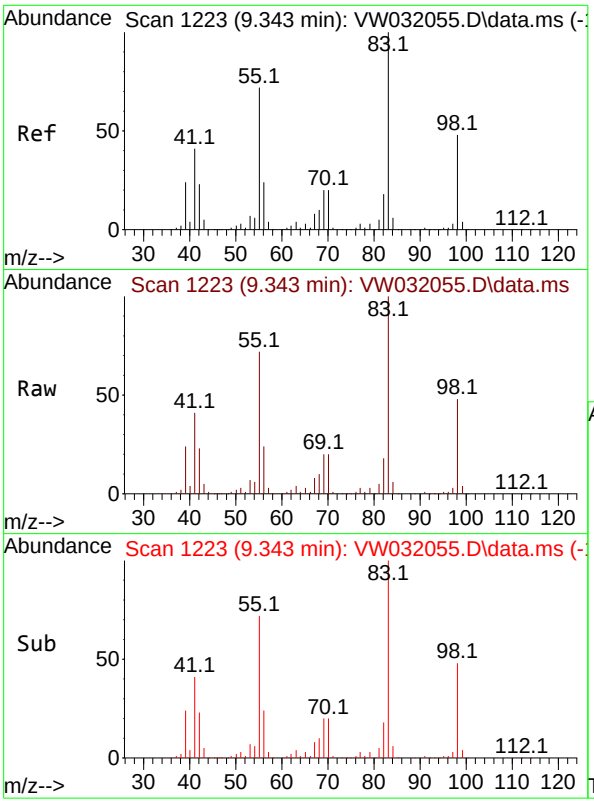


#38
Carbon Tetrachloride
Concen: 51.000 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

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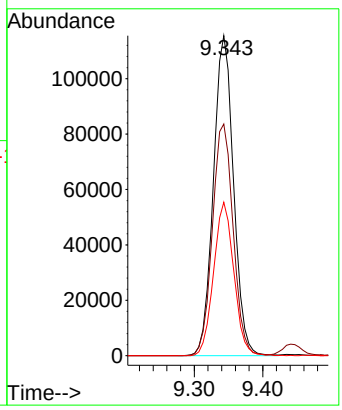
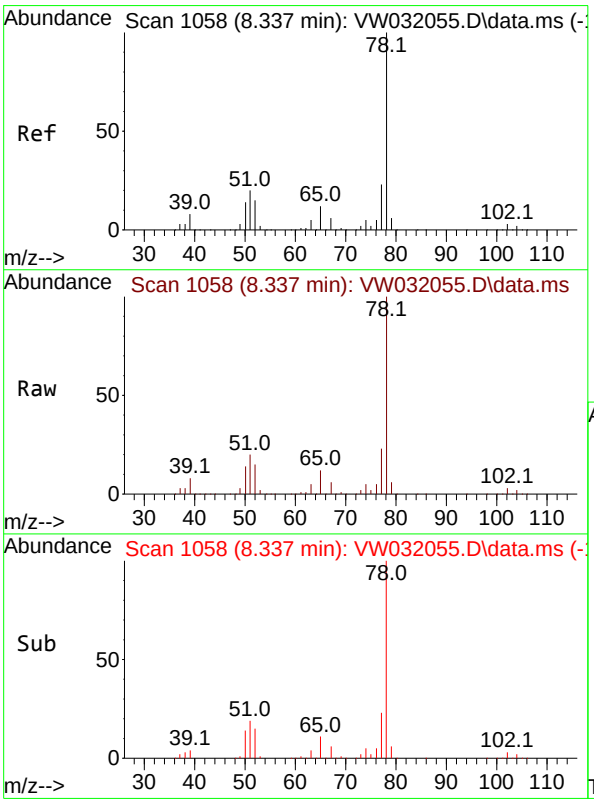
Supervised By :Semsettin Yesilyurt 08/12/2025

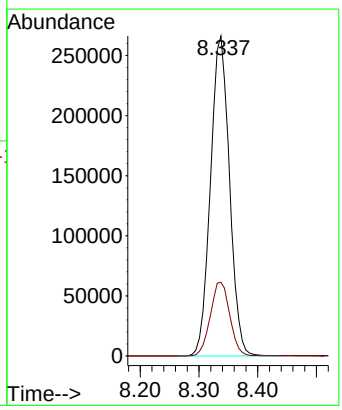


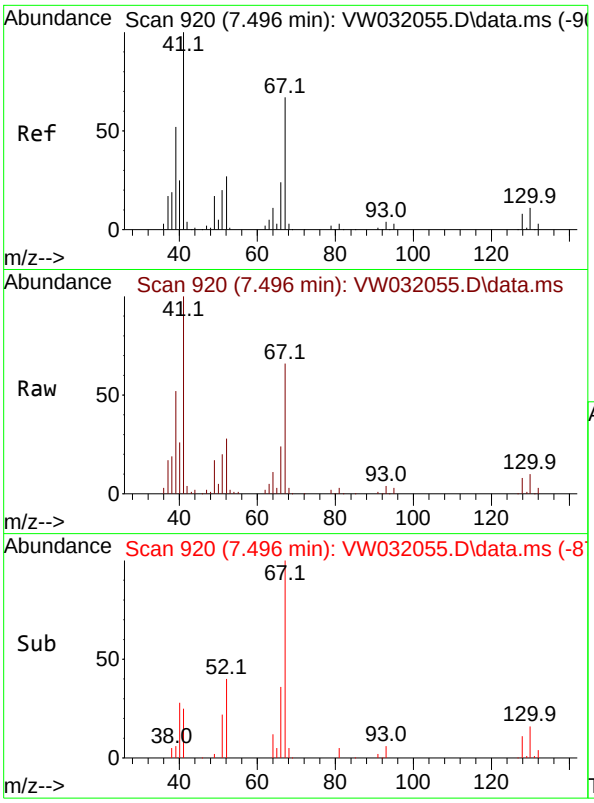


#40
Benzene
Concen: 51.883 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 78 Resp: 597760

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.4	27.6

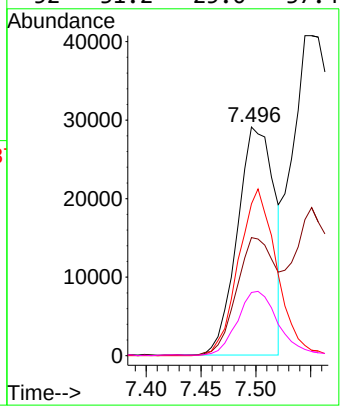




#41
Methacrylonitrile
Concen: 55.039 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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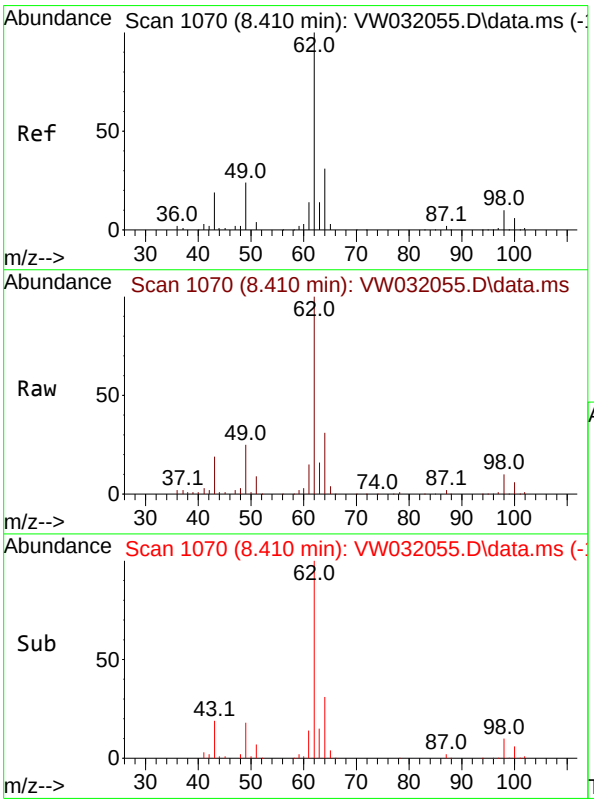
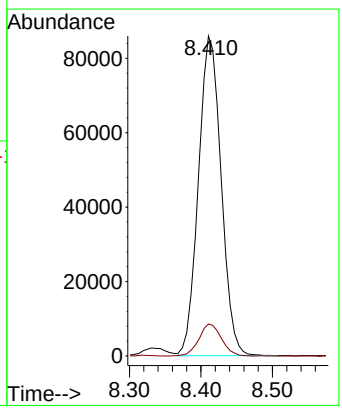
Supervised By :Semsettin Yesilyurt 08/12/2025

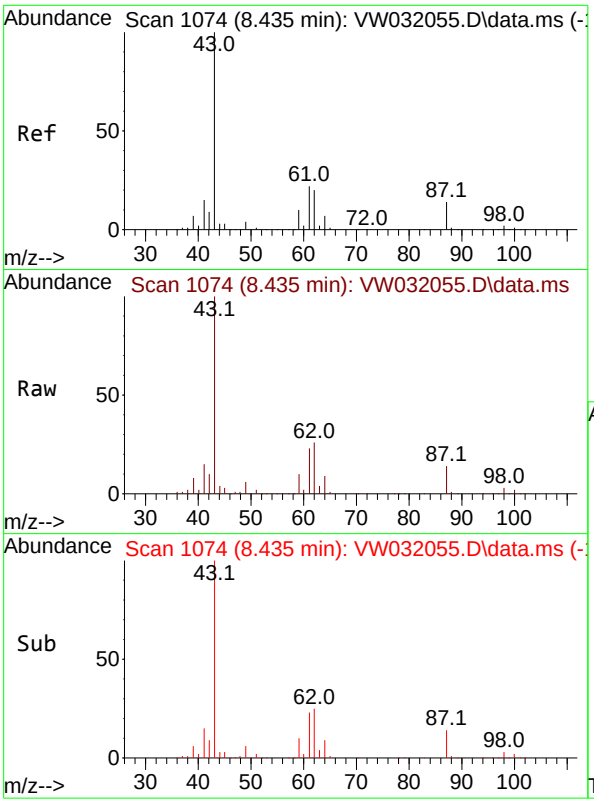


#42
1,2-Dichloroethane
Concen: 51.471 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 189755

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8

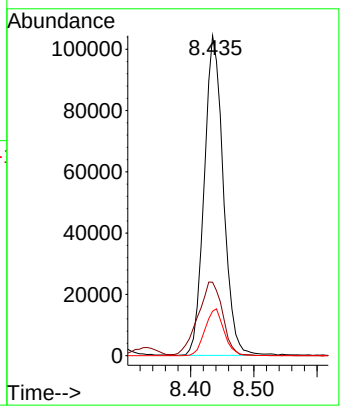




#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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 :
MSVOA_W
ClientSampleId :
VSTDICCC050

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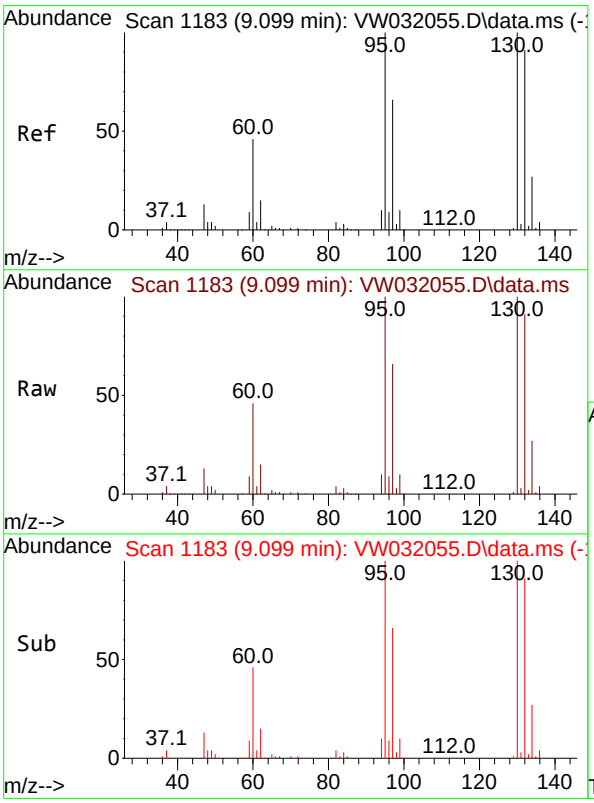
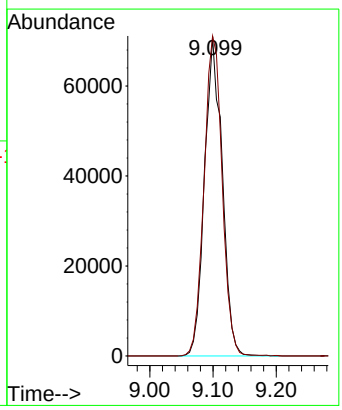
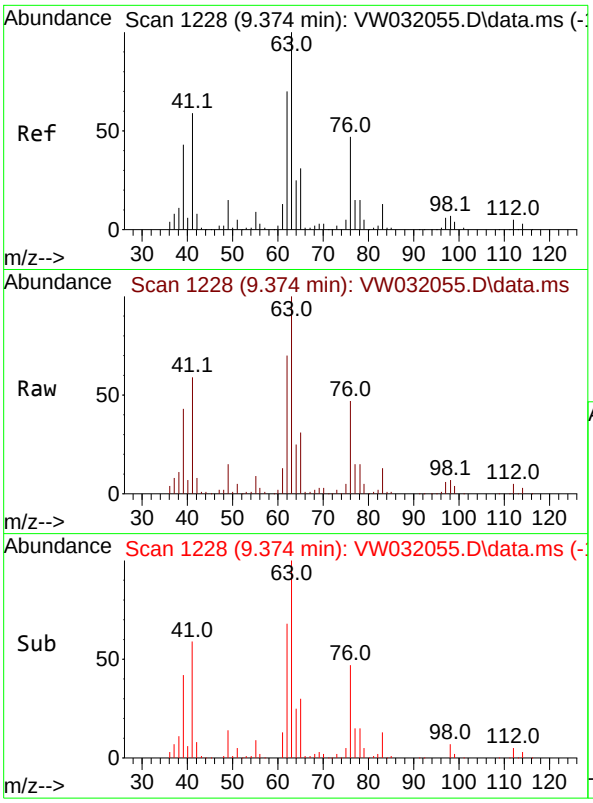


#44
Trichloroethene
Concen: 50.264 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:130 Resp: 137910

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	200.6

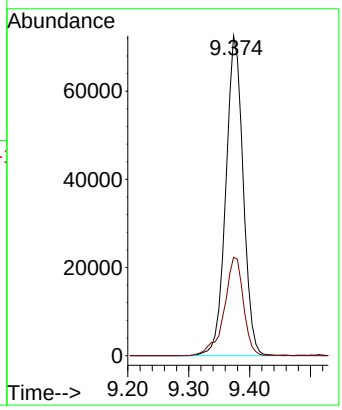




#45
1,2-Dichloropropane
Concen: 51.537 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 14344

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	36.8



Instrument :
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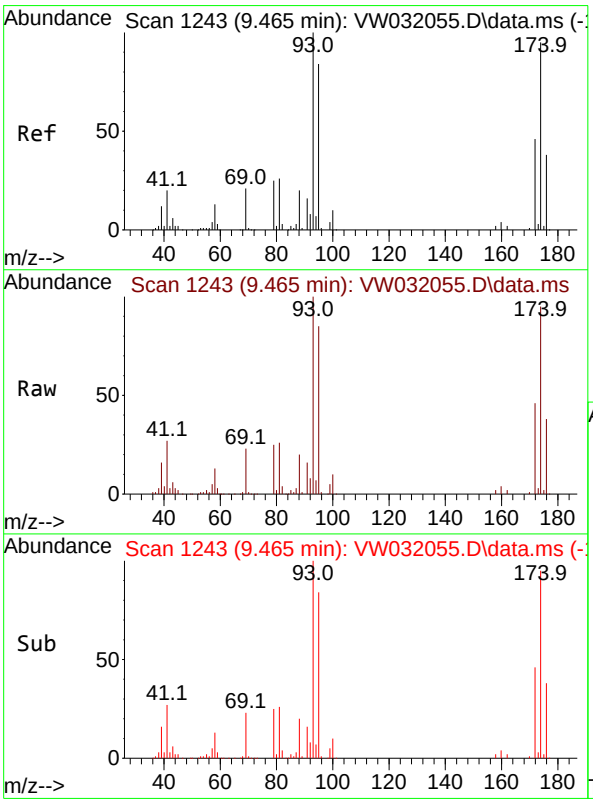
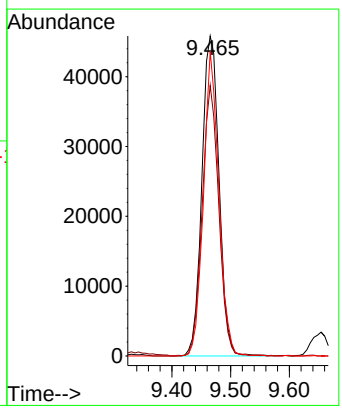
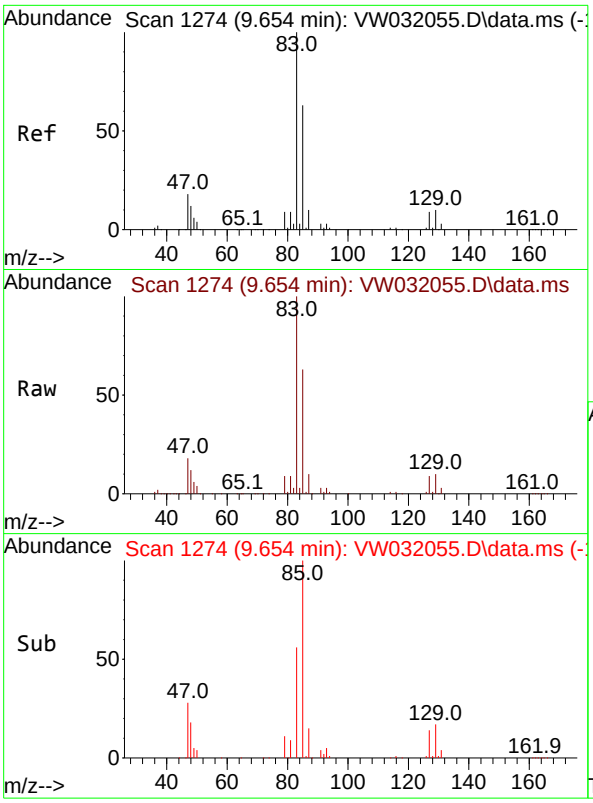


#46
Dibromomethane
Concen: 51.770 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

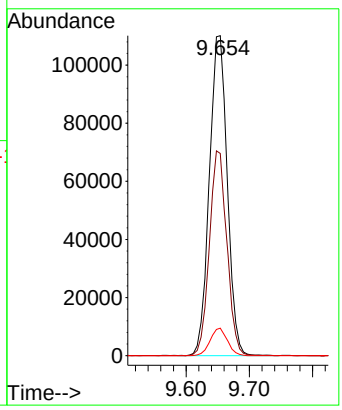




#47
Bromodichloromethane
Concen: 52.307 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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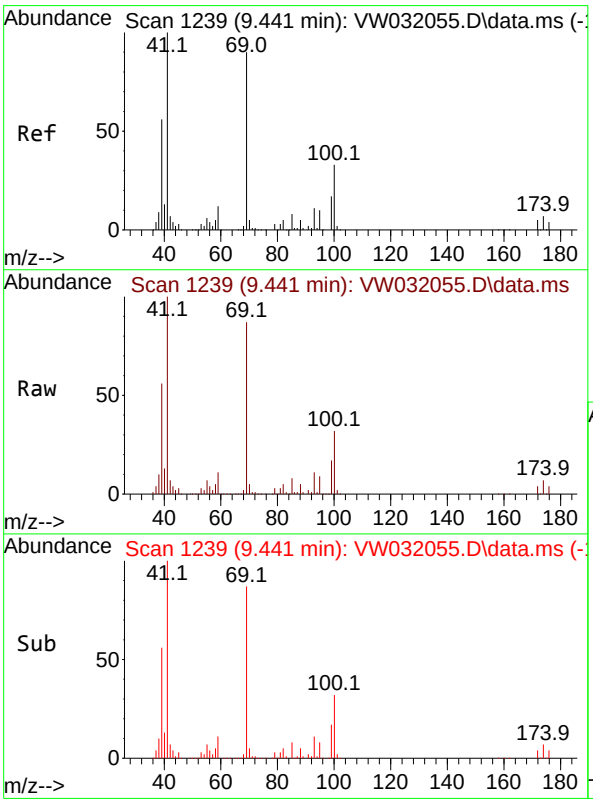
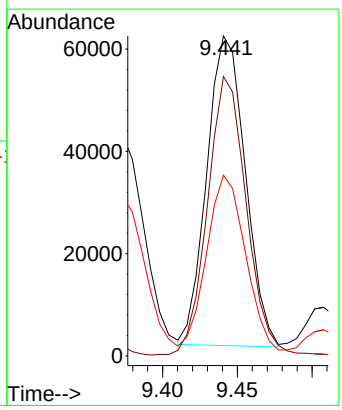
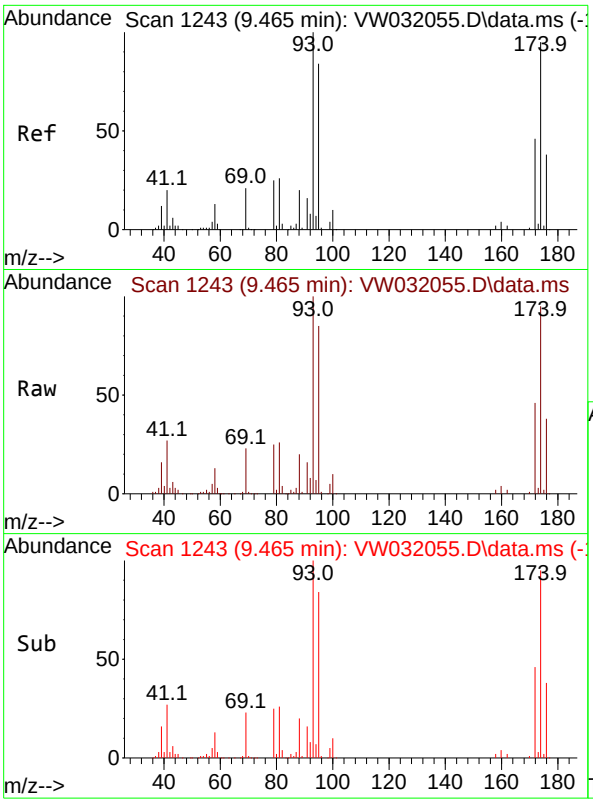


#48
Methyl methacrylate
Concen: 55.849 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

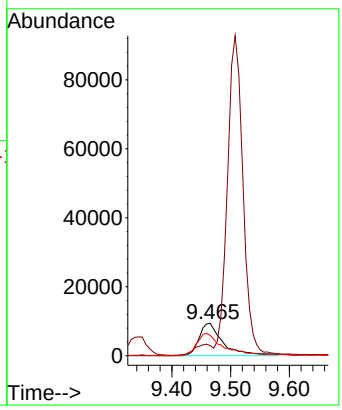




#49
1,4-Dioxane
Concen: 1144.321 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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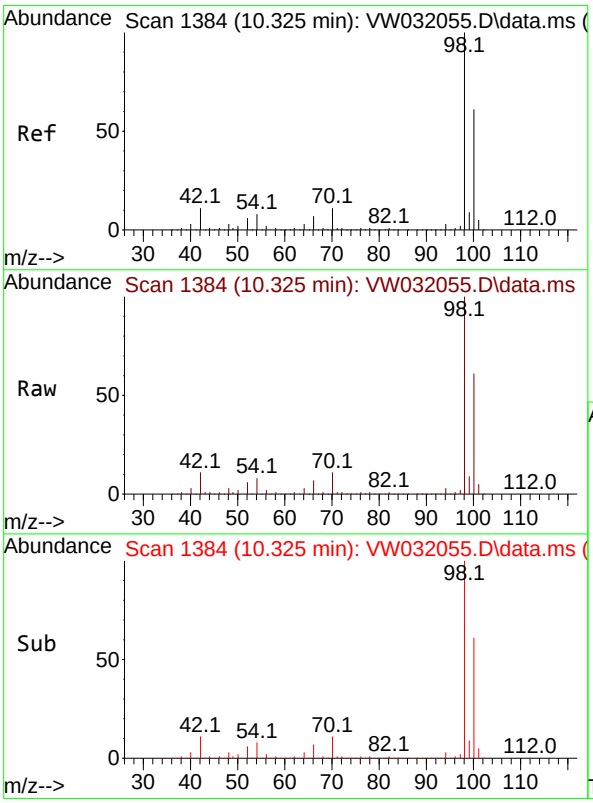
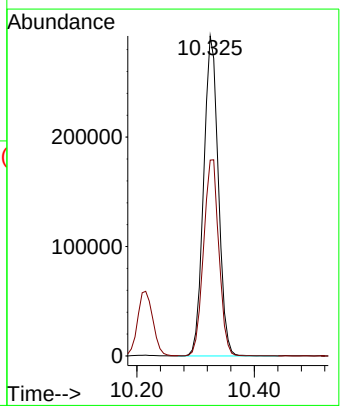
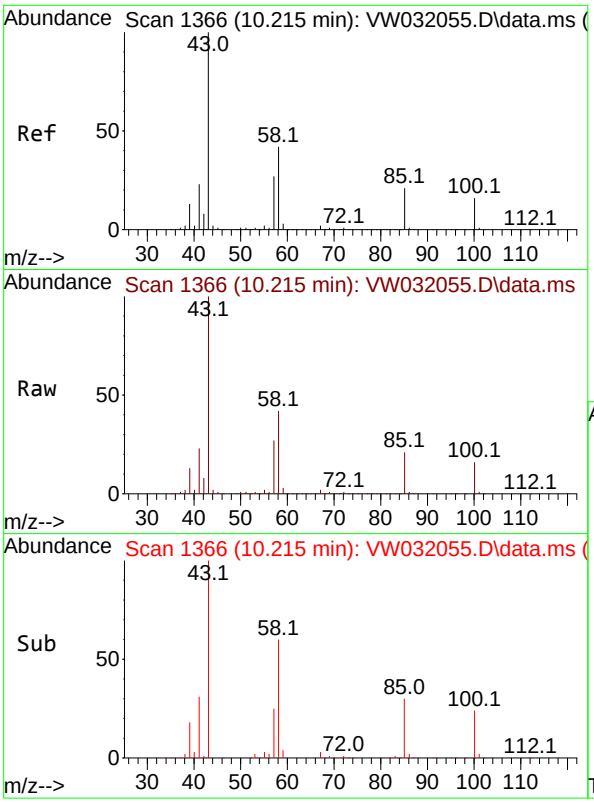


#50
Toluene-d8
Concen: 52.098 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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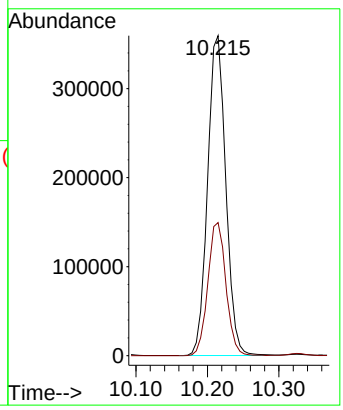
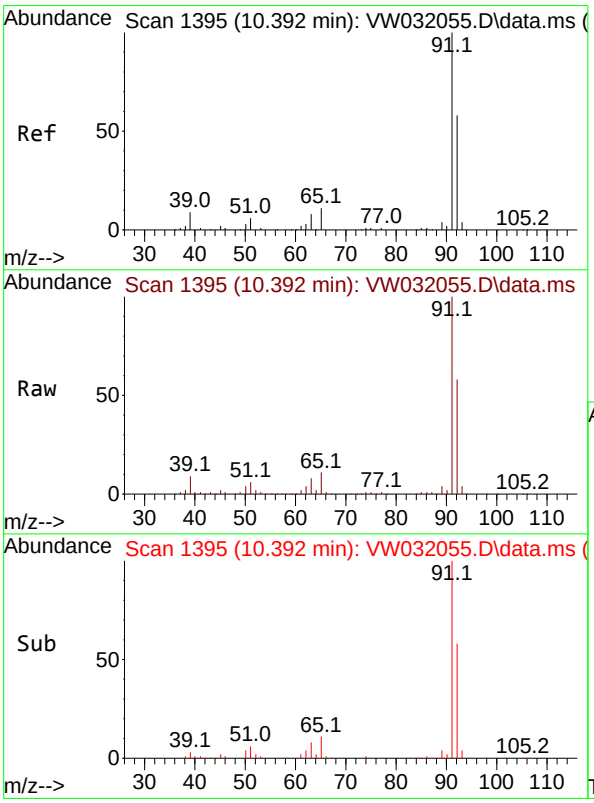
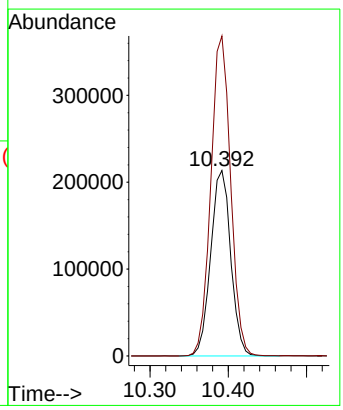


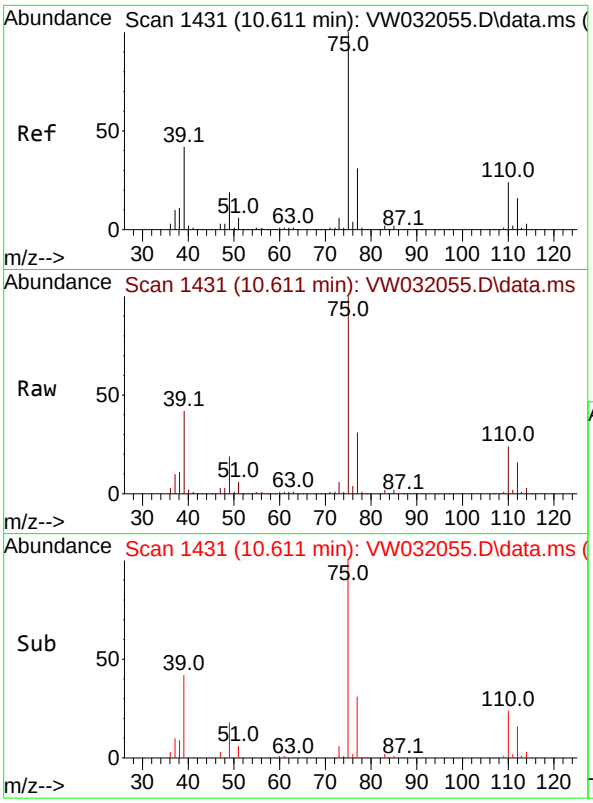


#52
Toluene
Concen: 52.258 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 92 Resp: 379230

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.3	204.5

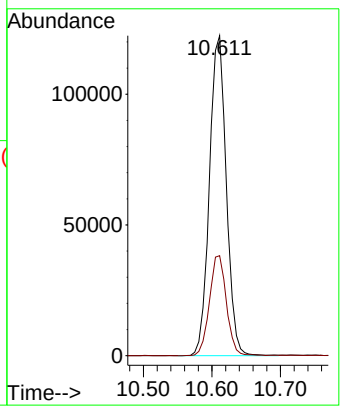




#53
t-1,3-Dichloropropene
Concen: 54.035 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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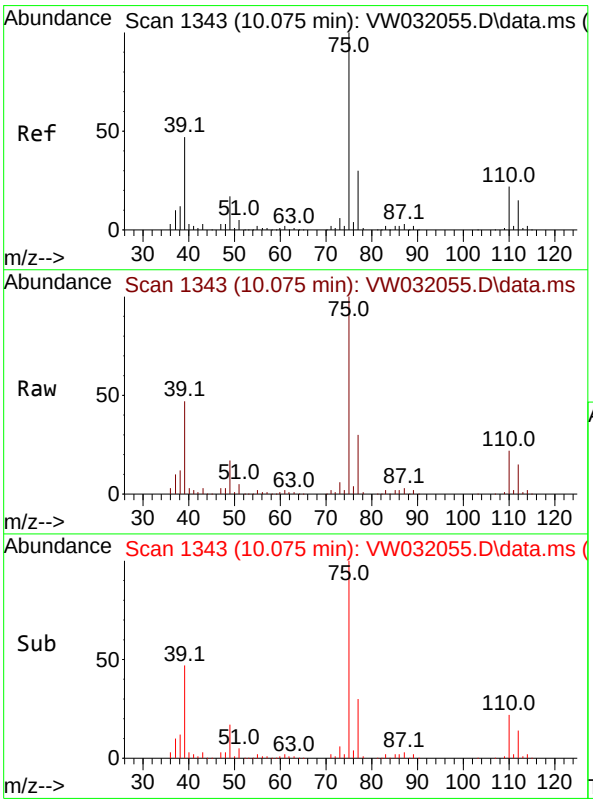
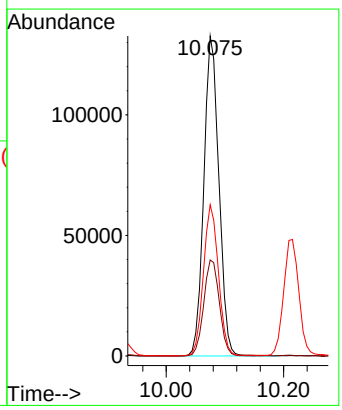
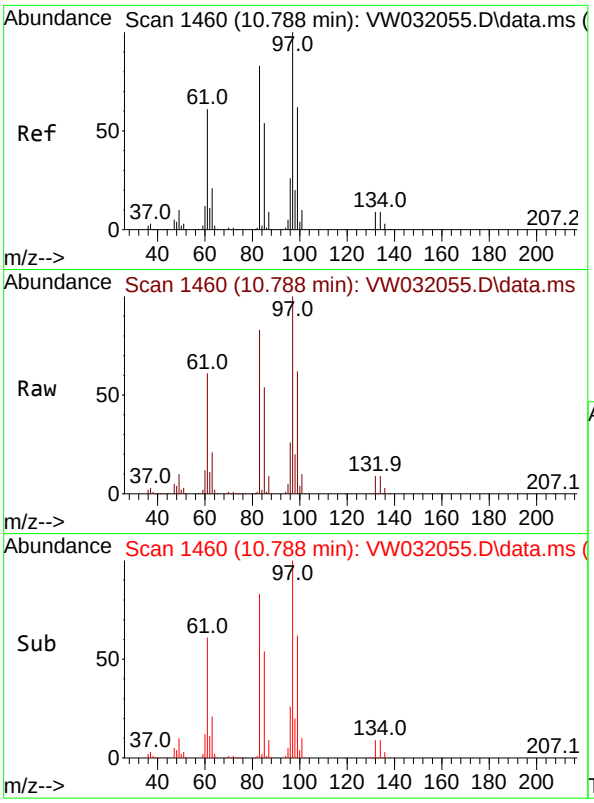


#54
cis-1,3-Dichloropropene
Concen: 53.744 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

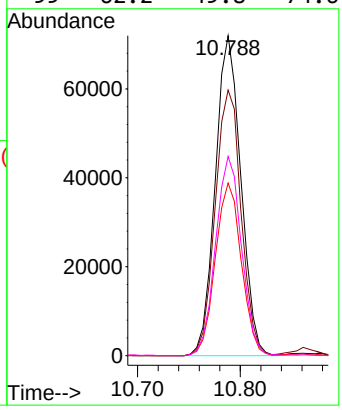




#55
1,1,2-Trichloroethane
Concen: 52.088 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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 :
MSVOA_W
ClientSampleId :
VSTDICCC050

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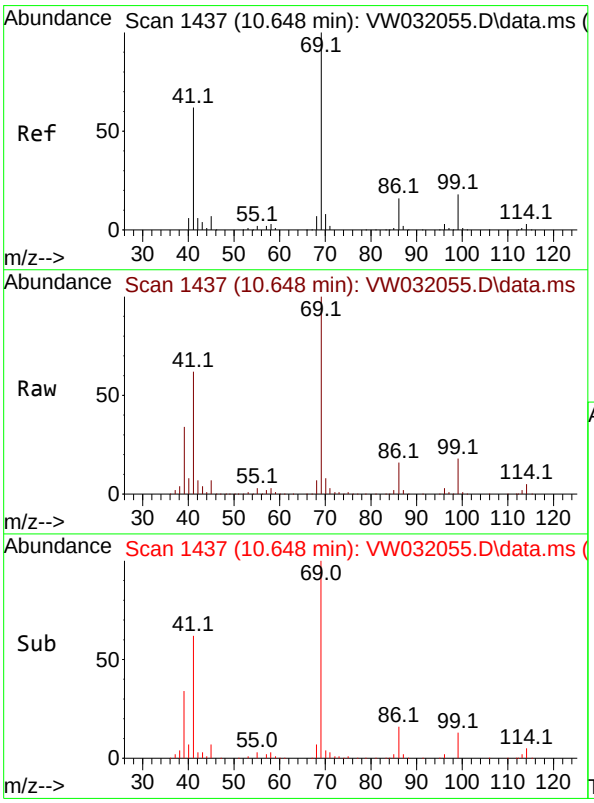
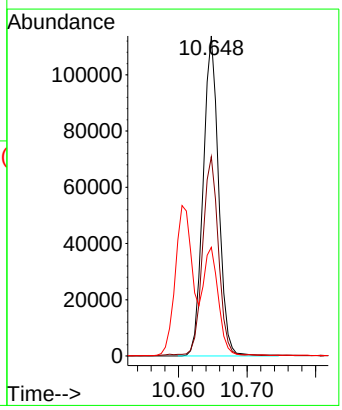
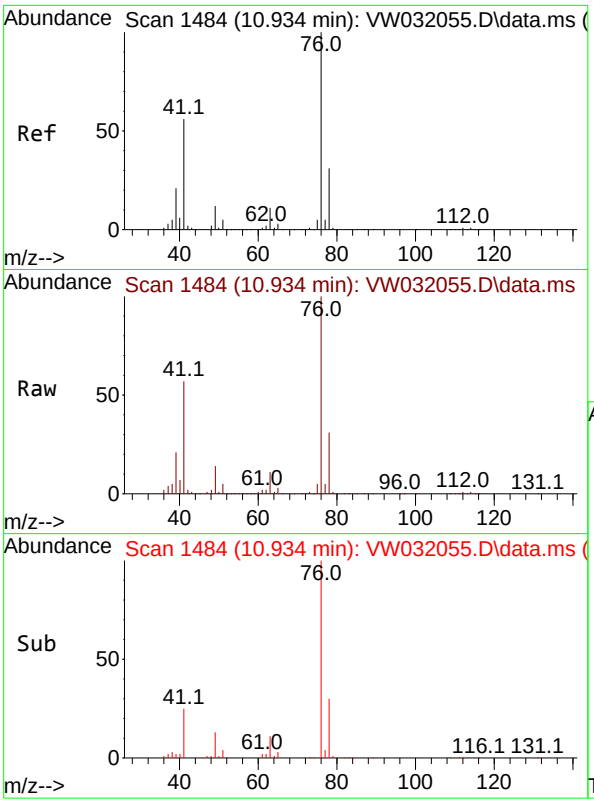


#56
Ethyl methacrylate
Concen: 56.027 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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: 21671

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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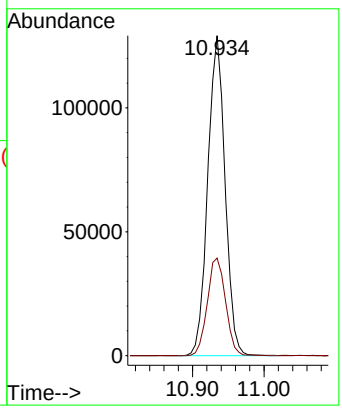
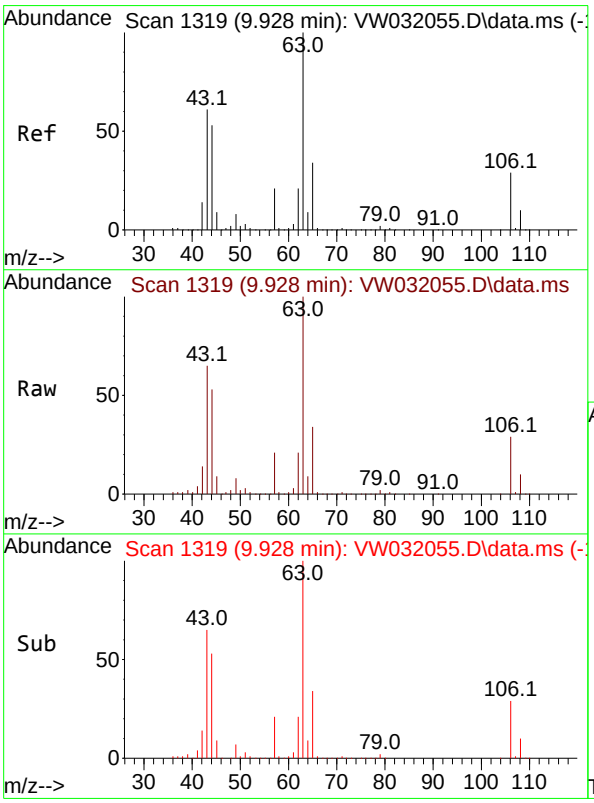
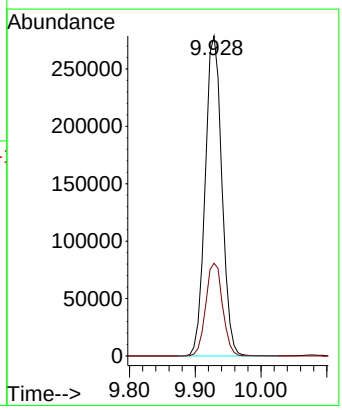


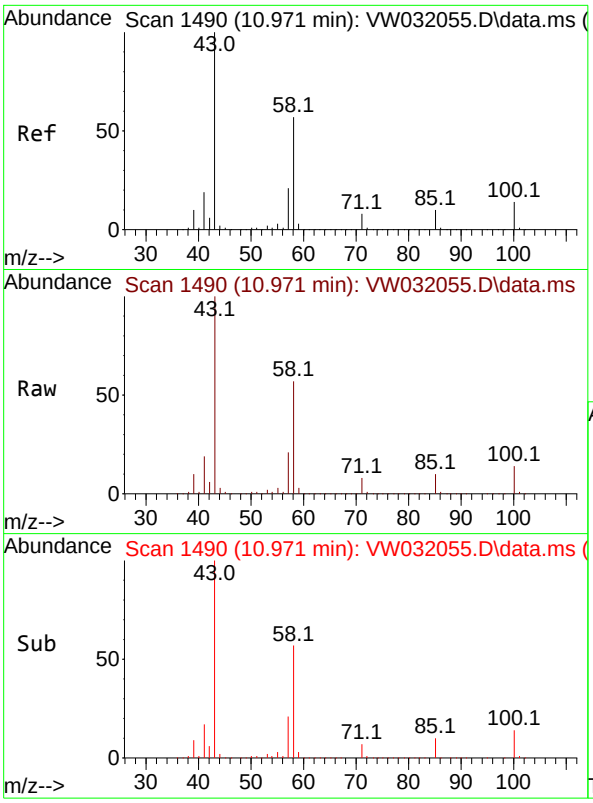


#58
2-Chloroethyl Vinyl ether
Concen: 277.613 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 490522

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.5	35.3

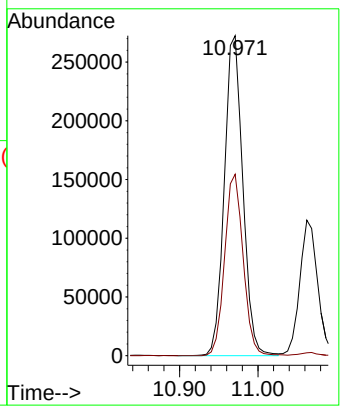




#59
2-Hexanone
Concen: 284.986 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 44742

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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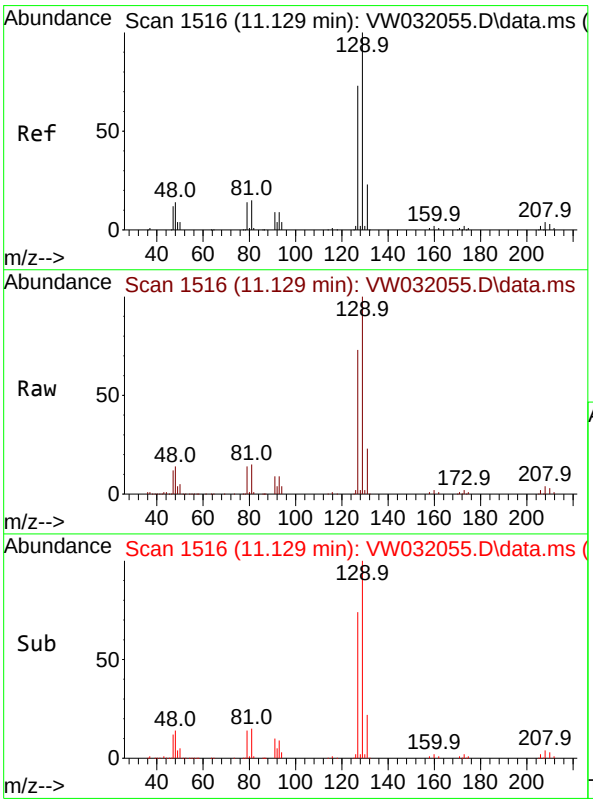
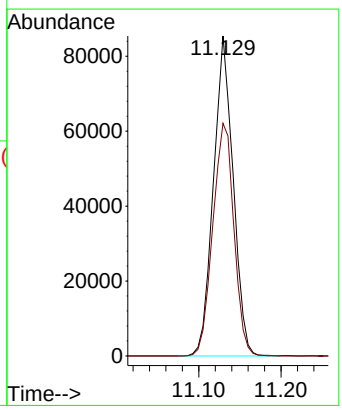
Supervised By :Semsettin Yesilyurt 08/12/2025

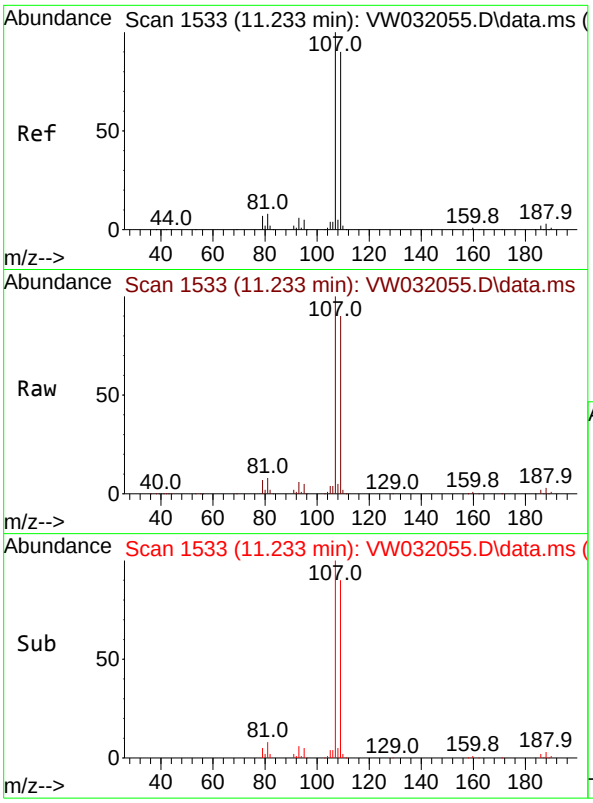


#60
Dibromochloromethane
Concen: 52.161 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:129 Resp: 142234

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	116.9

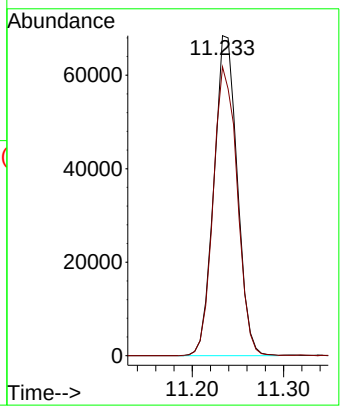




#61
1,2-Dibromoethane
Concen: 52.430 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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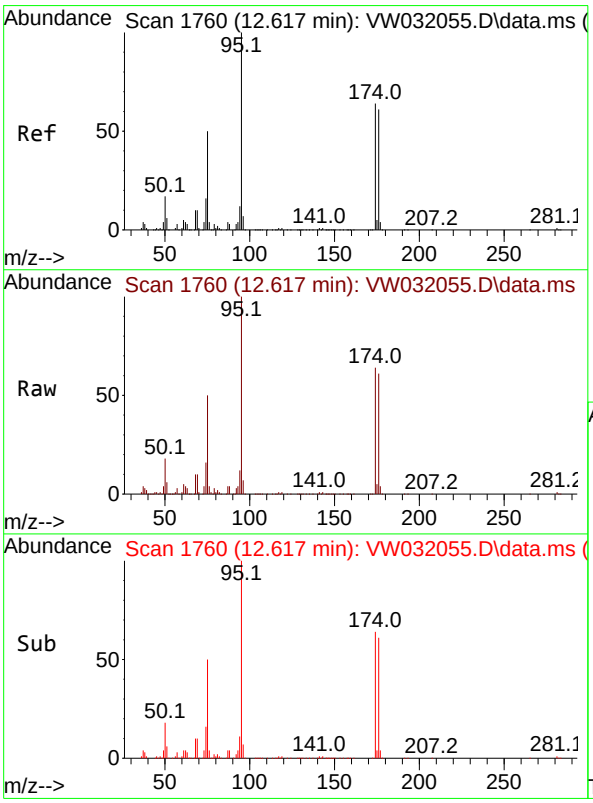
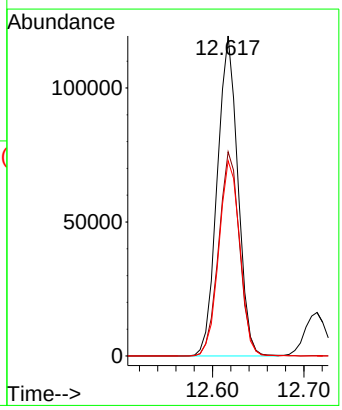
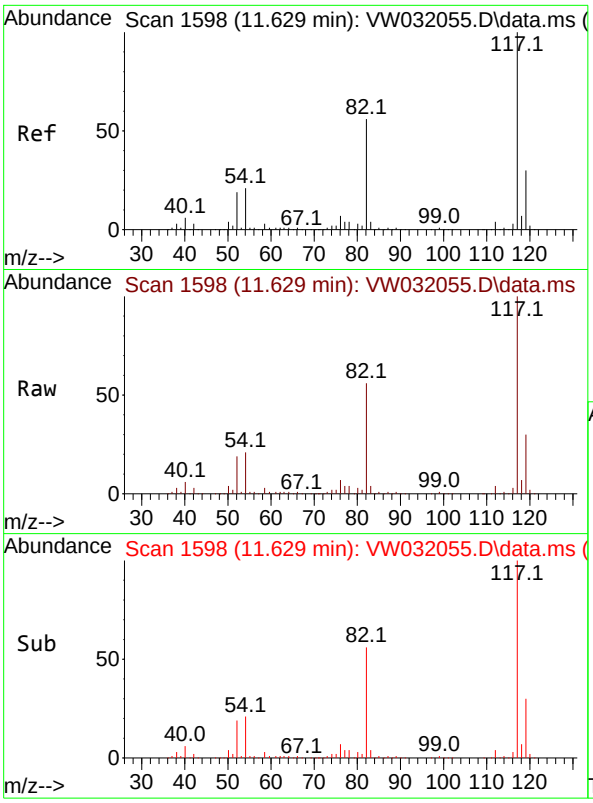


#62
4-Bromofluorobenzene
Concen: 52.274 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

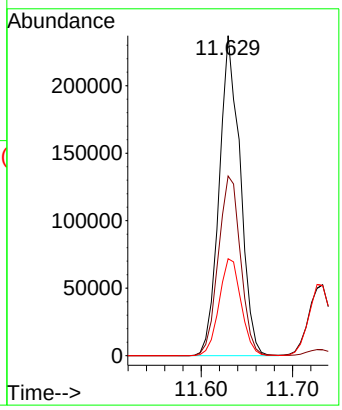




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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 :
VSTDICCC050

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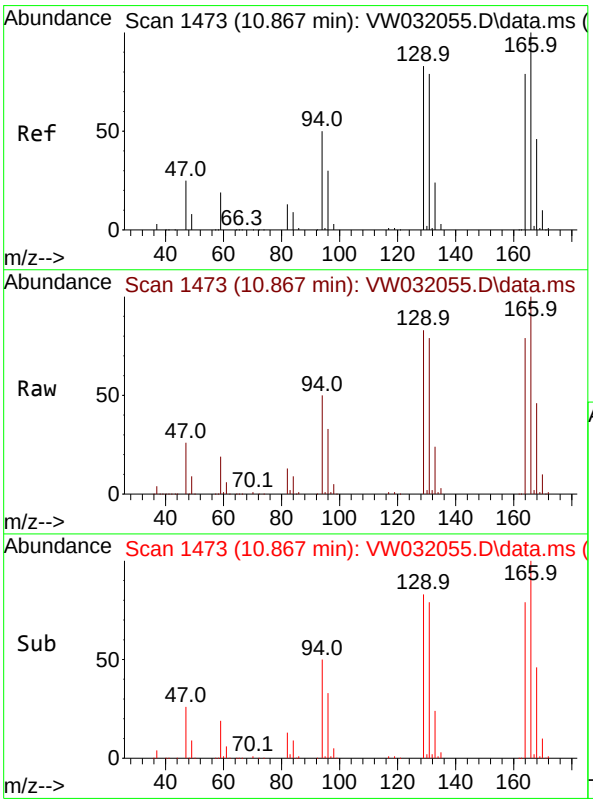
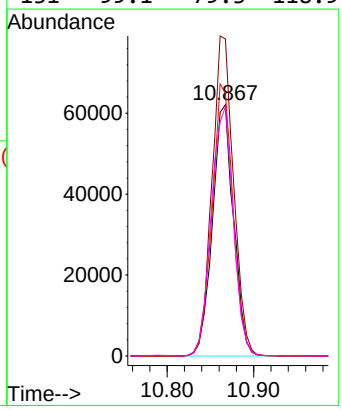
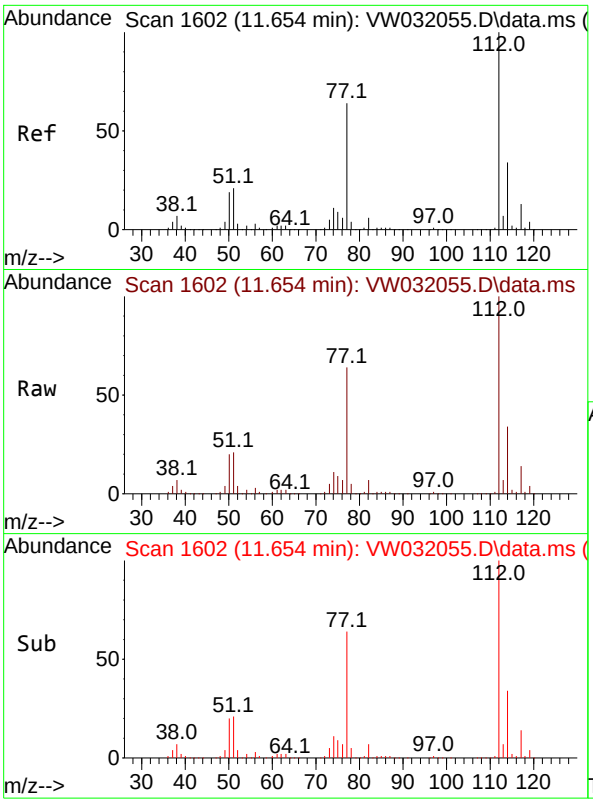


#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

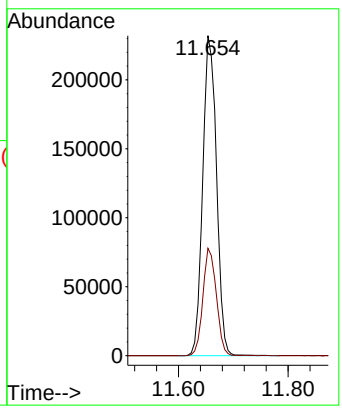




#65
Chlorobenzene
Concen: 49.082 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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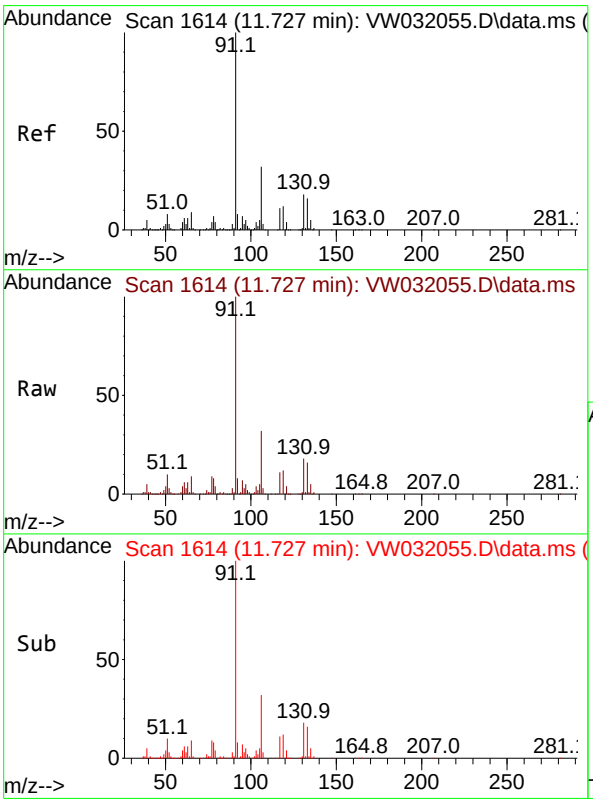
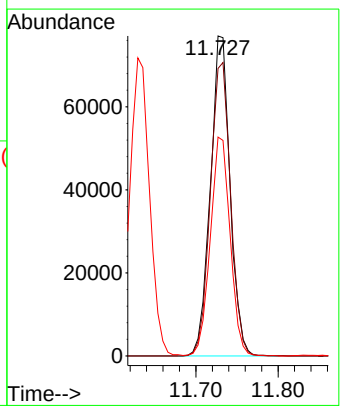
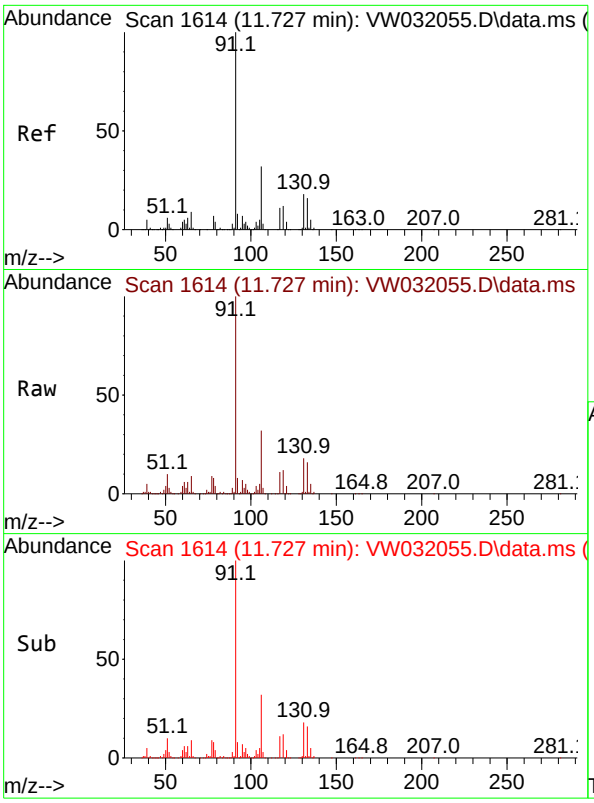


#66
1,1,1,2-Tetrachloroethane
Concen: 49.935 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

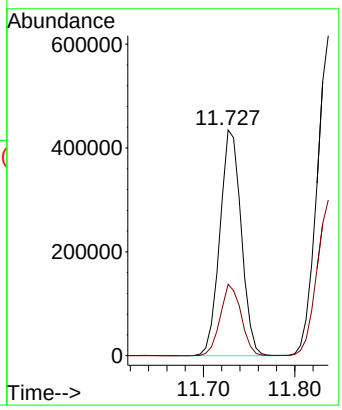




#67
Ethyl Benzene
Concen: 50.709 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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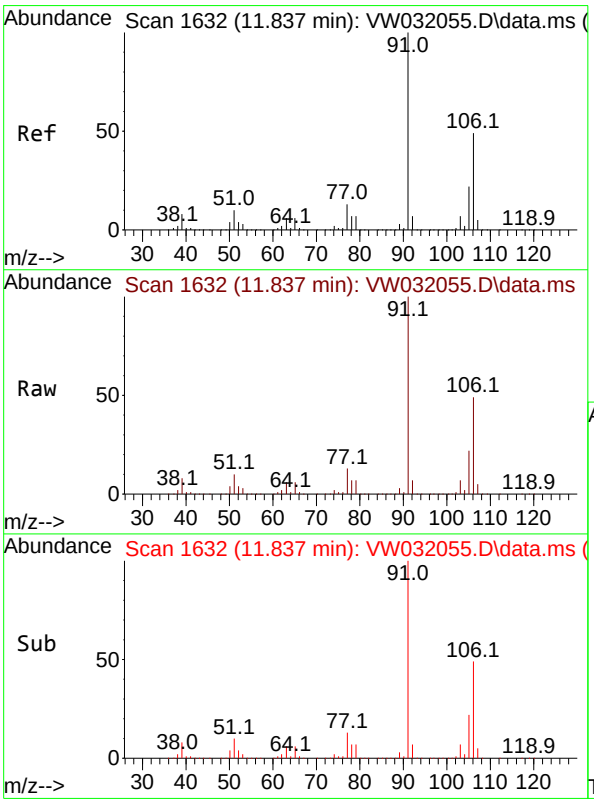
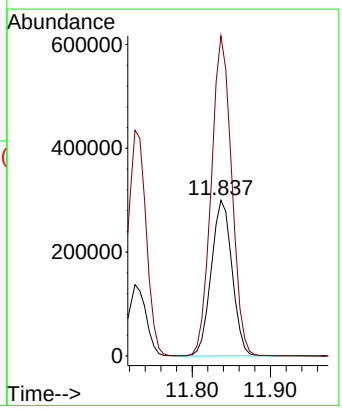
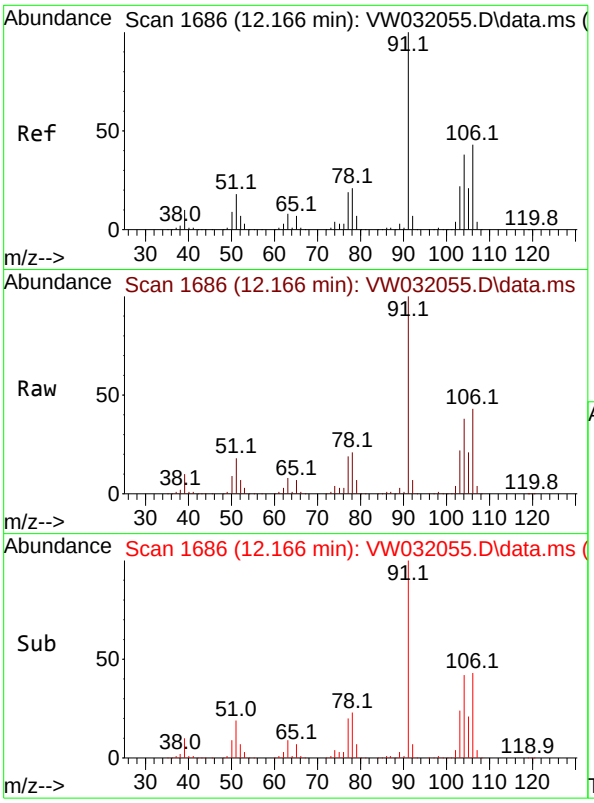


#68
m/p-Xylenes
Concen: 102.704 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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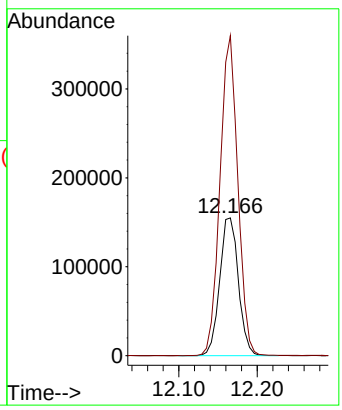
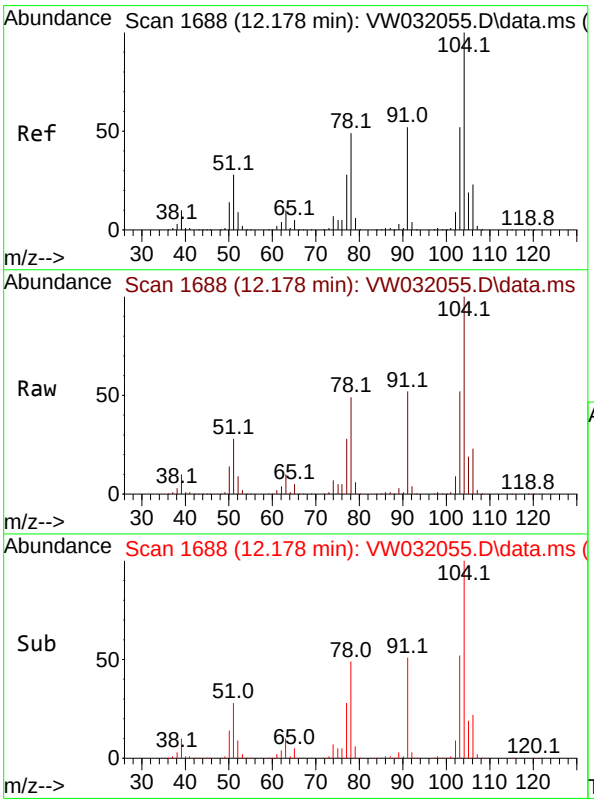
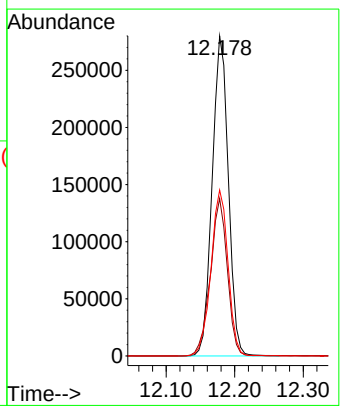


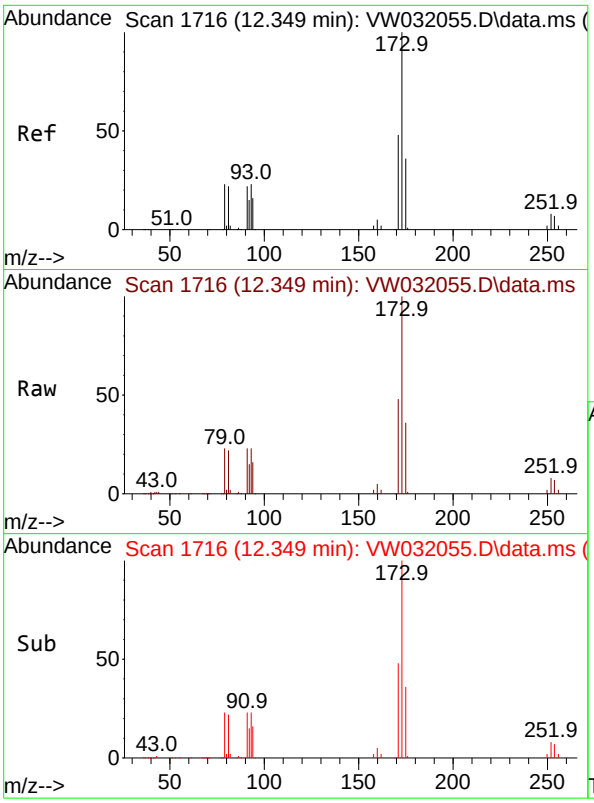


#70
Styrene
Concen: 51.858 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

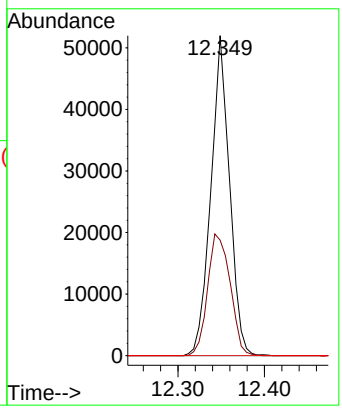




#71
Bromoform
Concen: 53.078 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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 :
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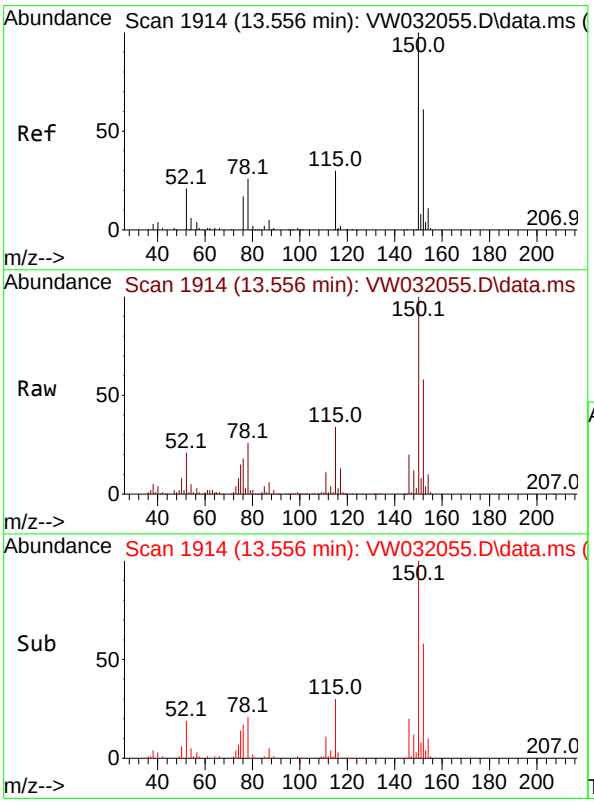
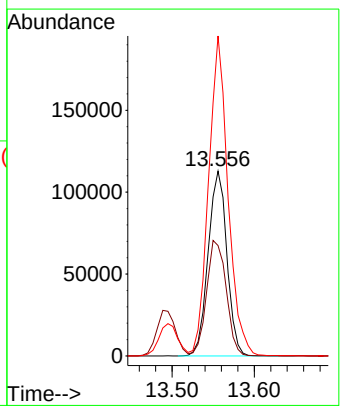
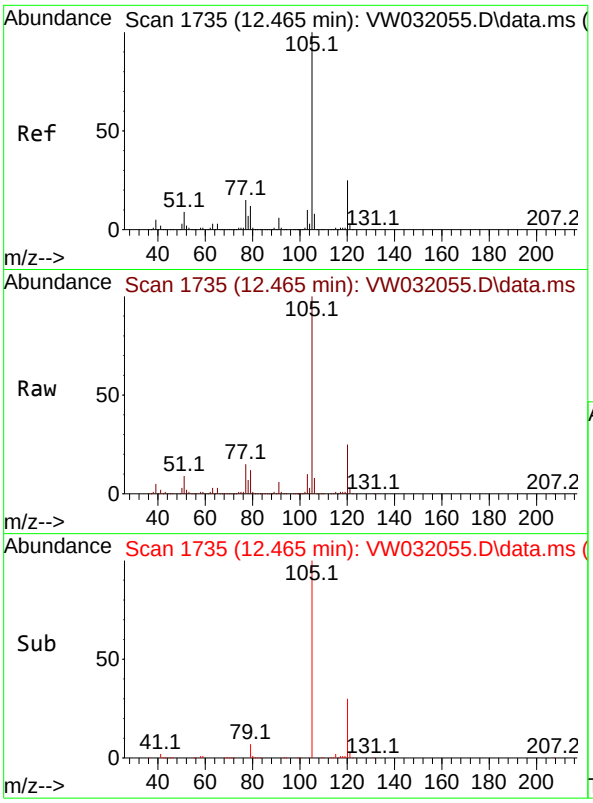


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

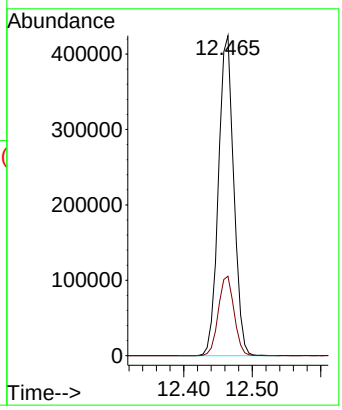




#73
Isopropylbenzene
Concen: 52.323 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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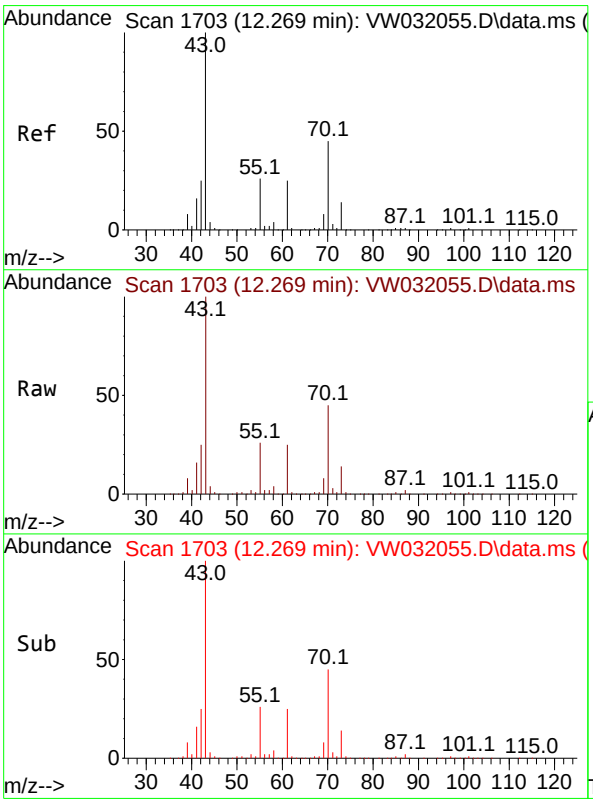
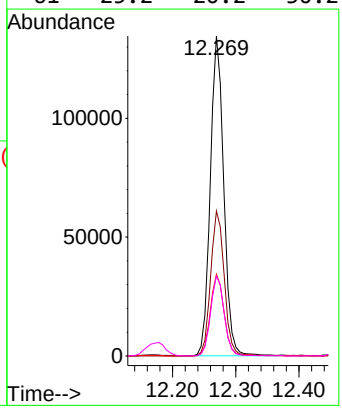
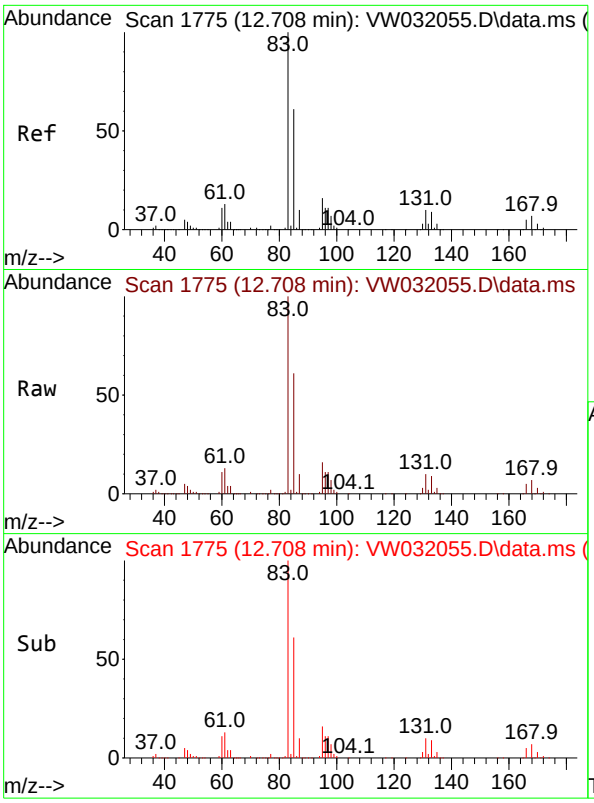


#74
N-amyl acetate
Concen: 55.520 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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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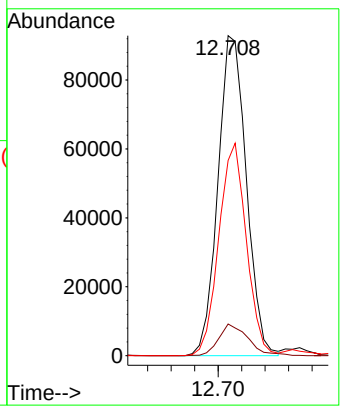
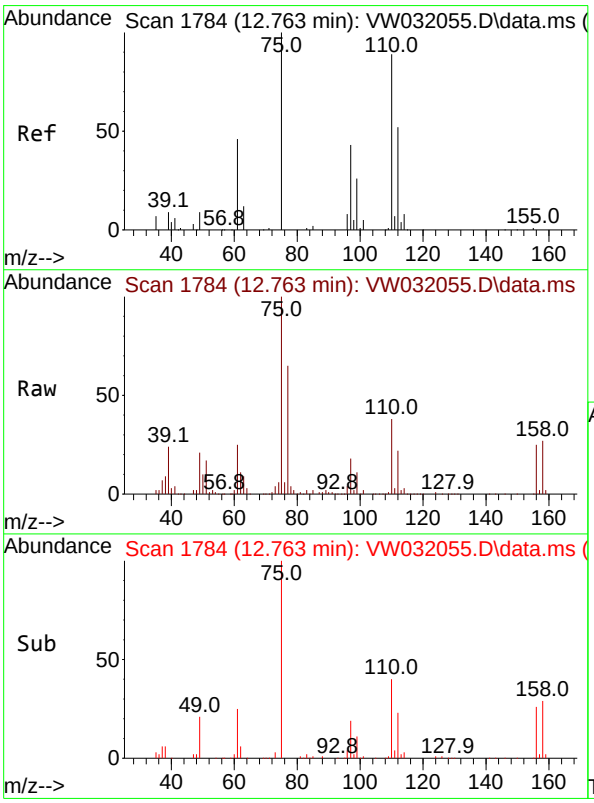
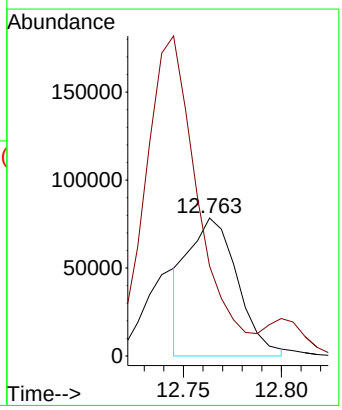


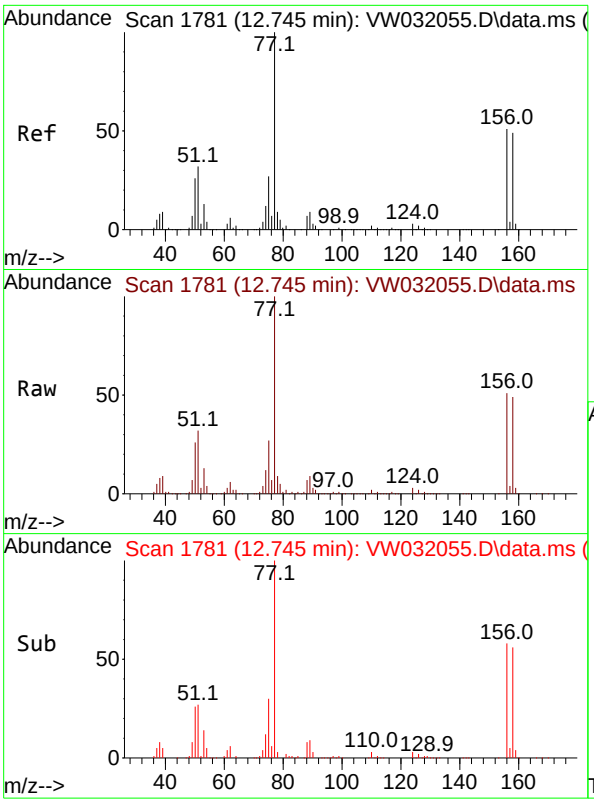


#76
1,2,3-Trichloropropane
Concen: 50.019 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 137632

Ion	Ratio	Lower	Upper
75	100		
77	247.0	123.5	370.5

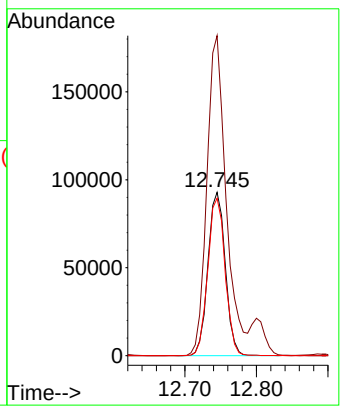




#77
Bromobenzene
Concen: 52.326 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

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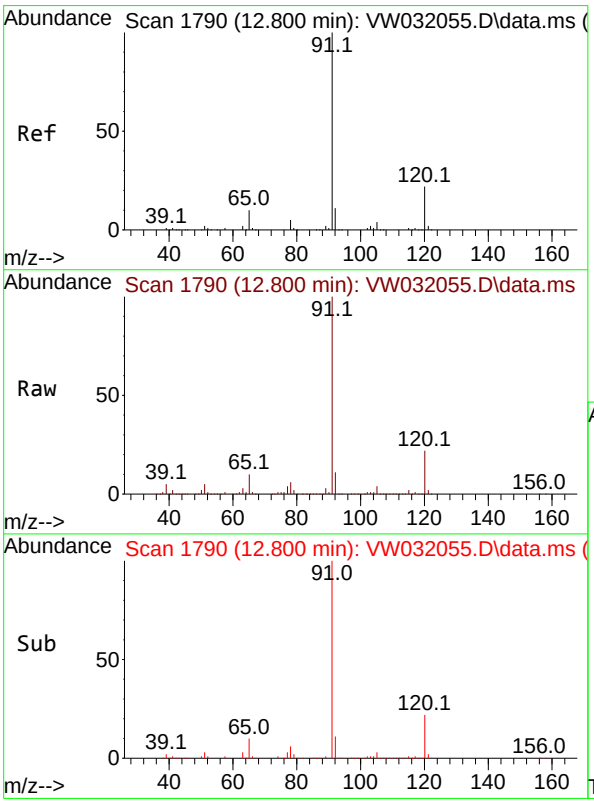
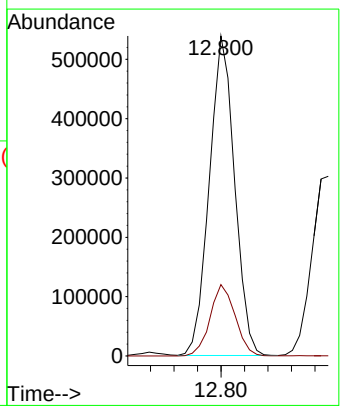
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

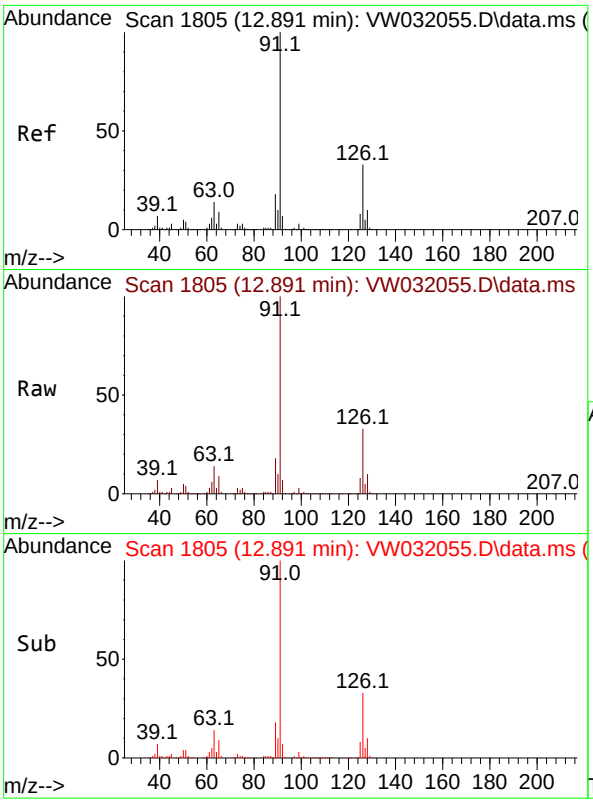


#78
n-propylbenzene
Concen: 52.304 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 805515

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3

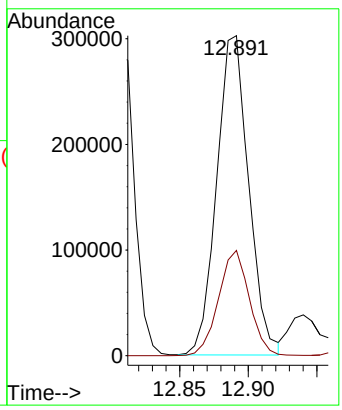




#79
2-Chlorotoluene
Concen: 51.622 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 49066

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7



Instrument :
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ClientSampleId :
VSTDICCC050

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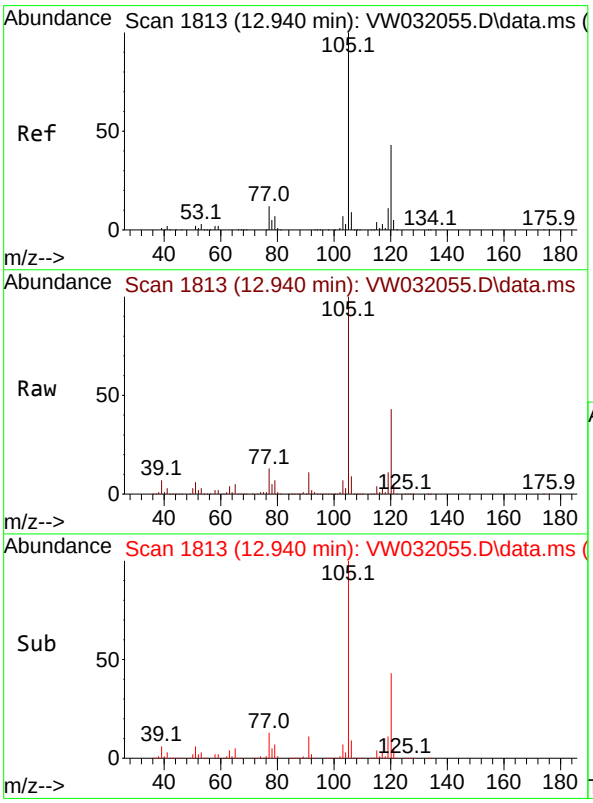
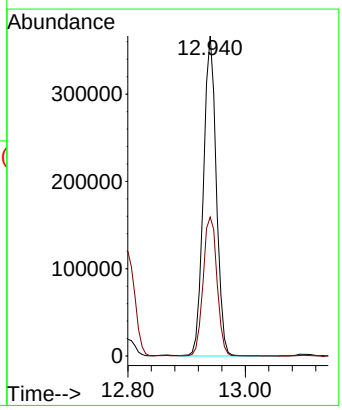
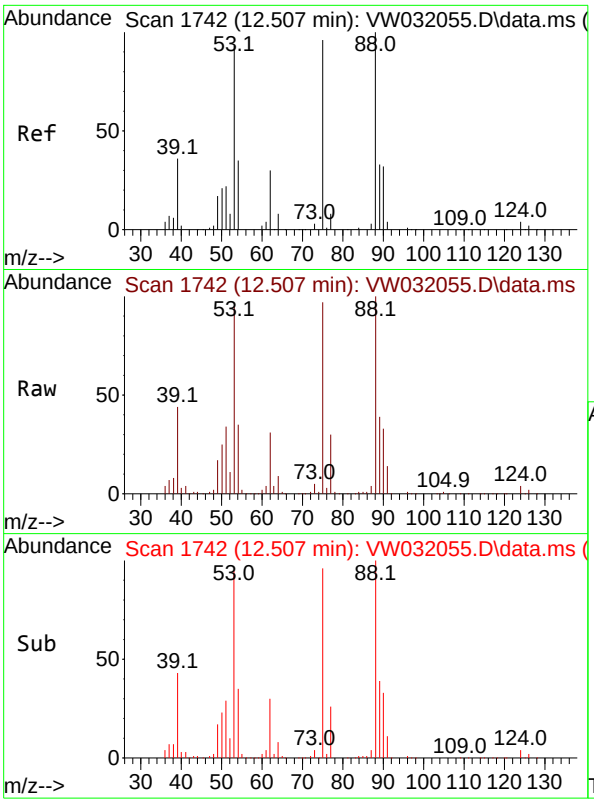


#80
1,3,5-Trimethylbenzene
Concen: 52.305 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 555481

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.4	70.0

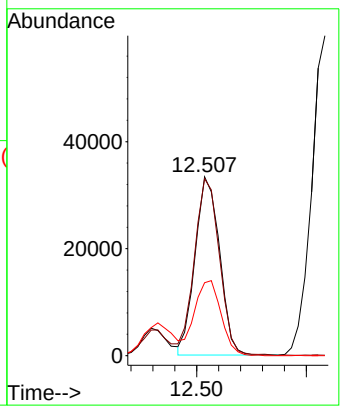




#81
trans-1,4-Dichloro-2-butene
Concen: 55.213 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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 :
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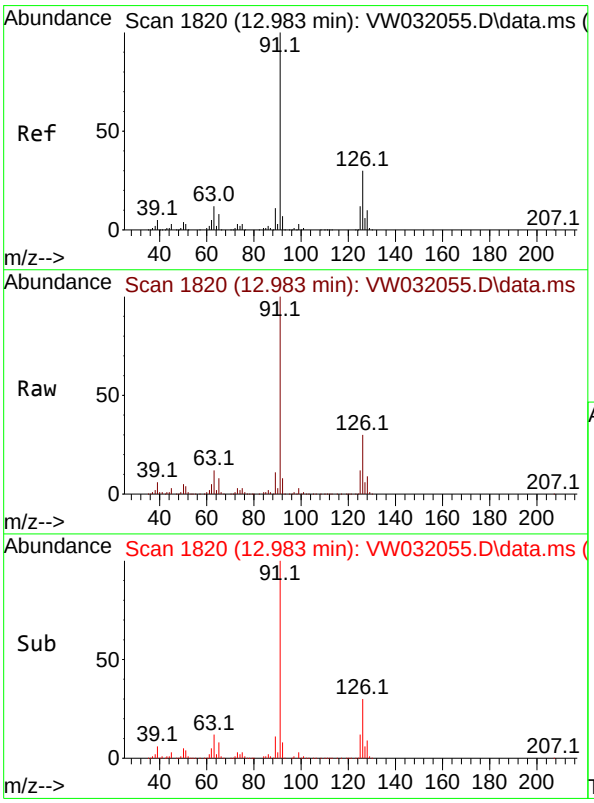
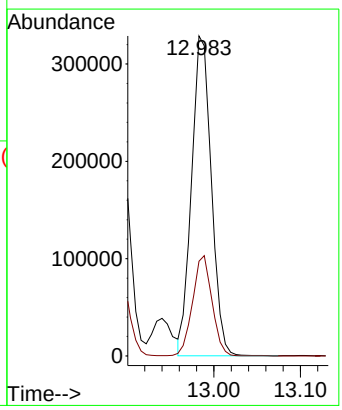
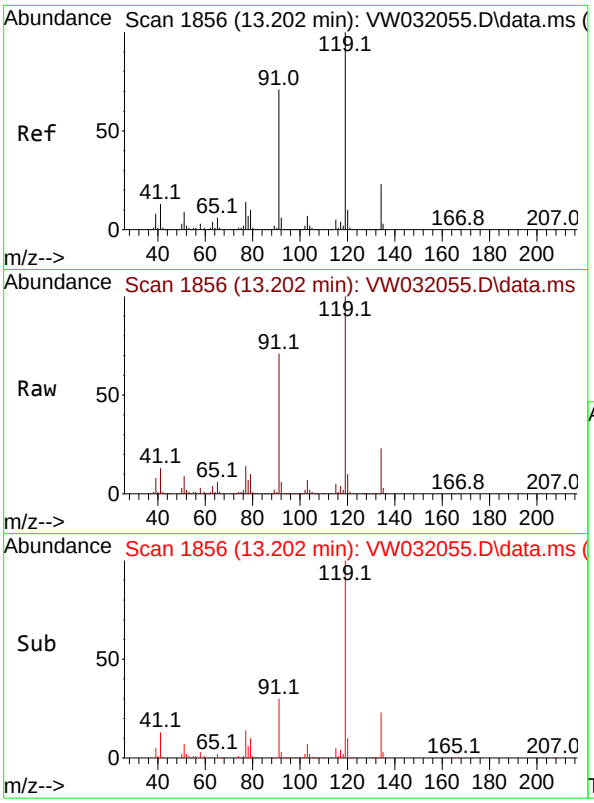


#82
4-Chlorotoluene
Concen: 51.488 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 519957

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.5	46.5

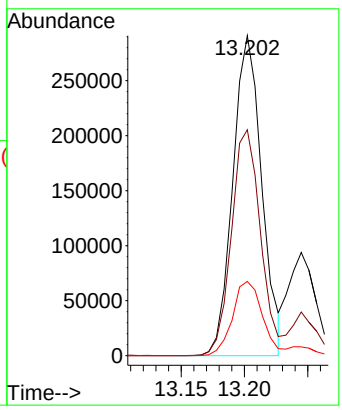




#83
tert-Butylbenzene
Concen: 52.460 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

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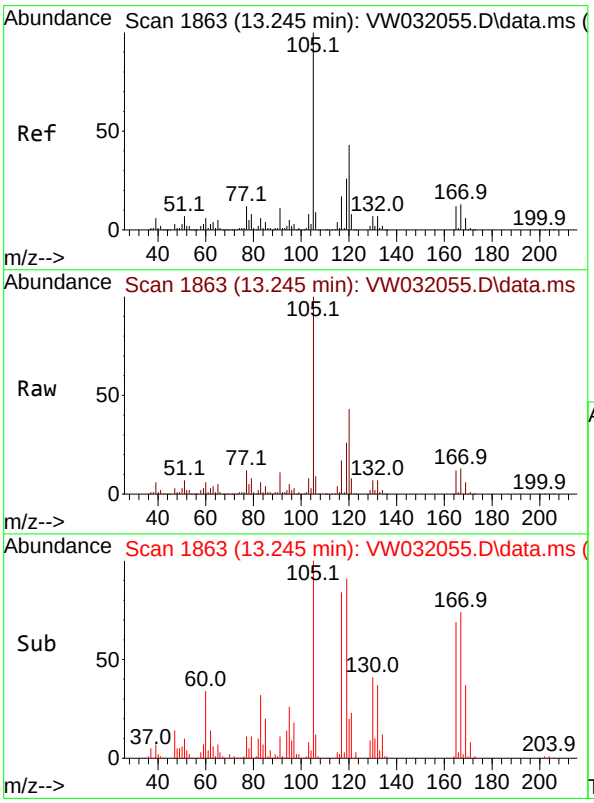
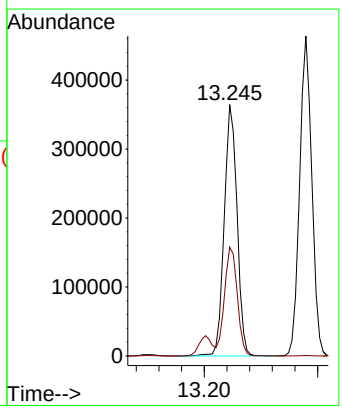
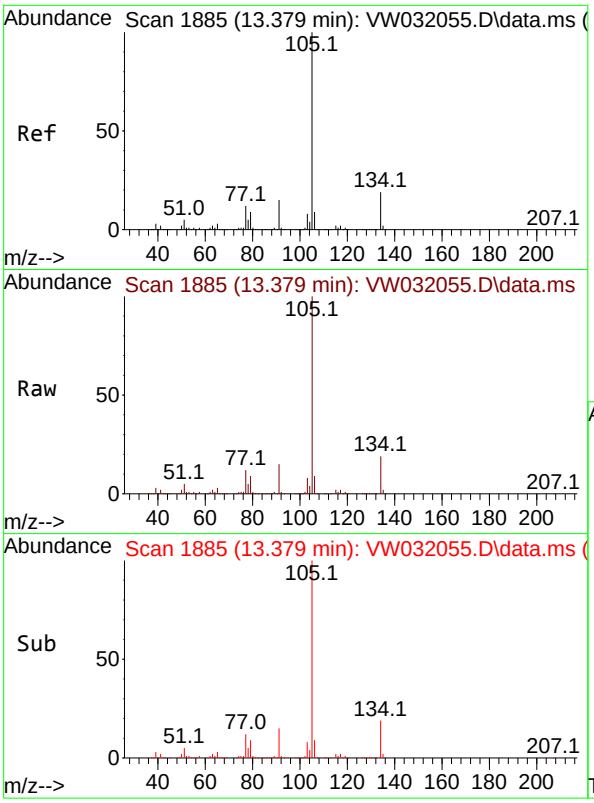


#84
1,2,4-Trimethylbenzene
Concen: 52.950 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 572429

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8

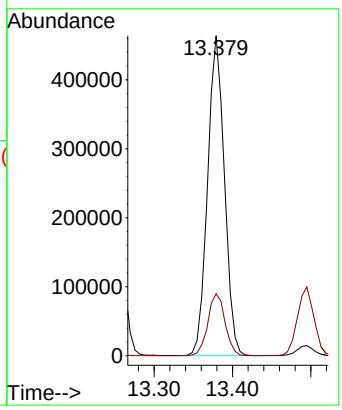




#85
sec-Butylbenzene
Concen: 51.829 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 69064

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

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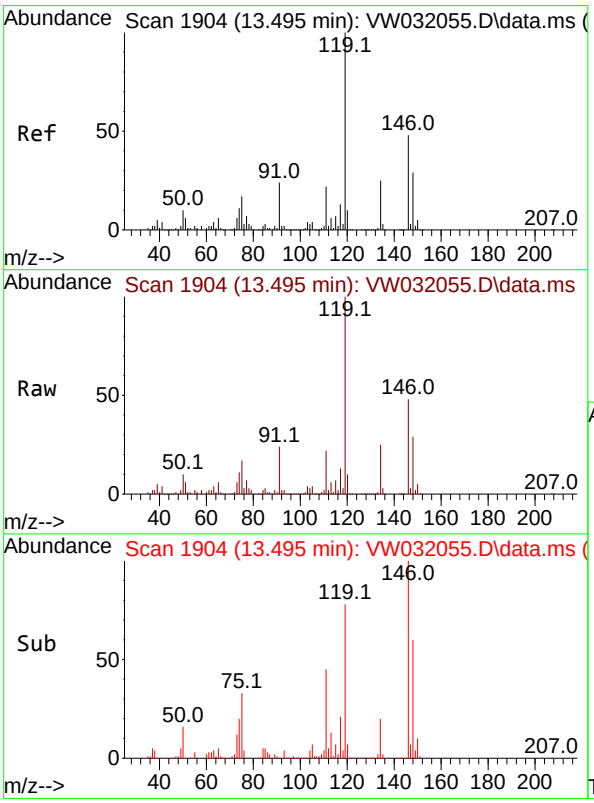
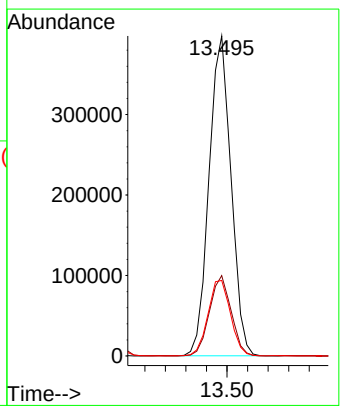
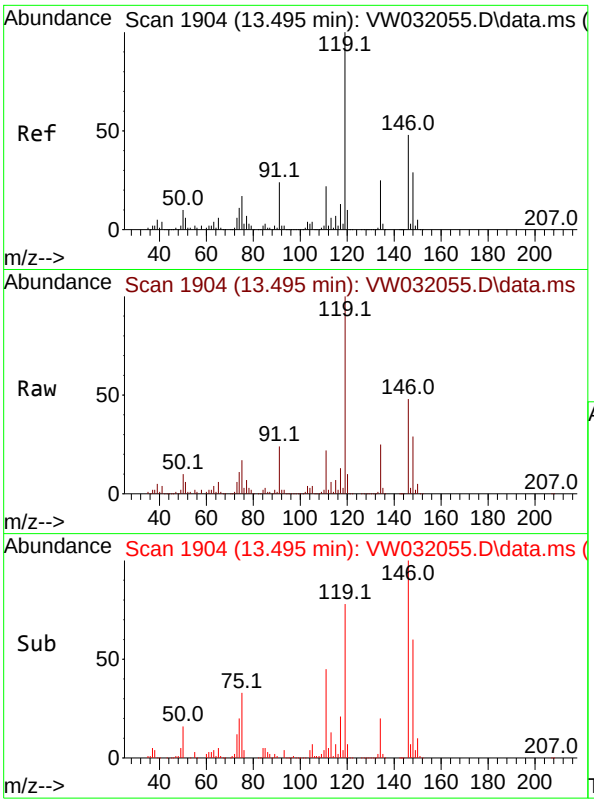


#86
p-Isopropyltoluene
Concen: 53.089 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

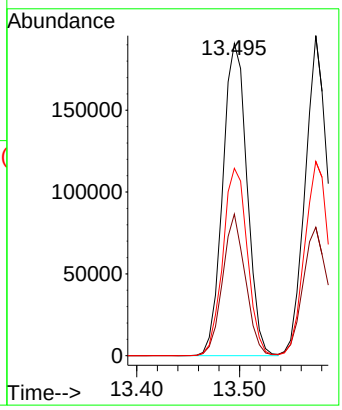




#87
1,3-Dichlorobenzene
Concen: 52.754 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

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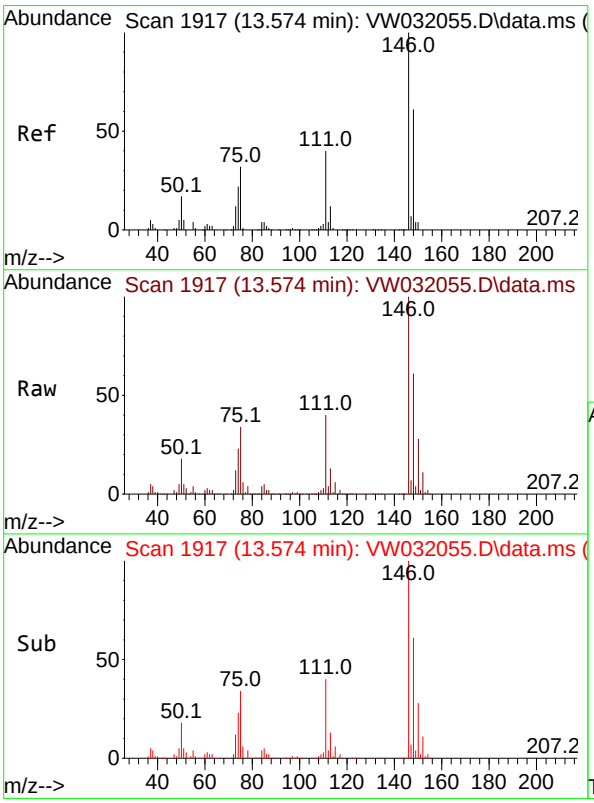
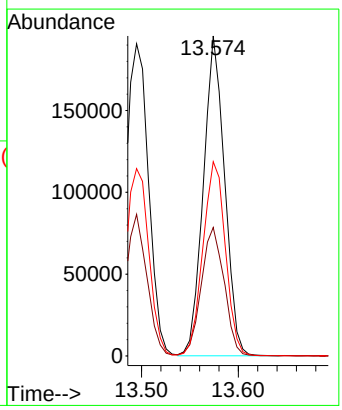
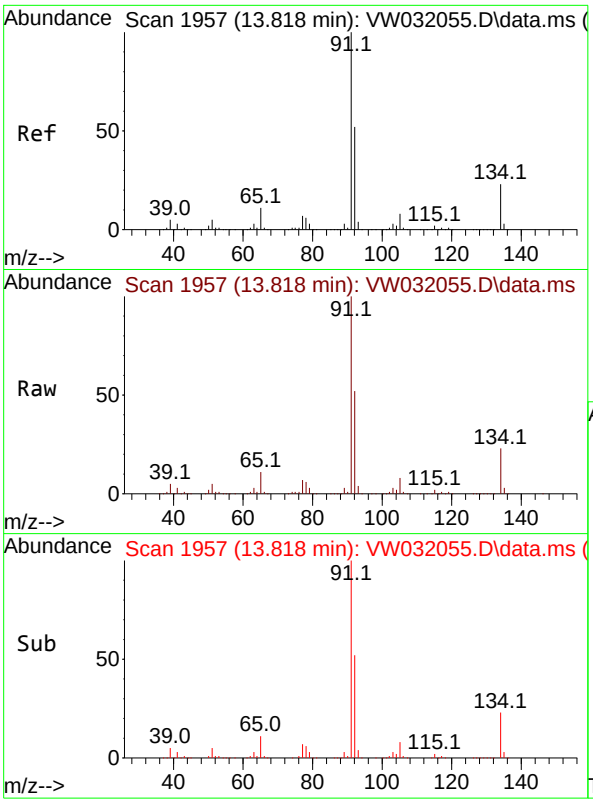


#88
1,4-Dichlorobenzene
Concen: 49.844 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

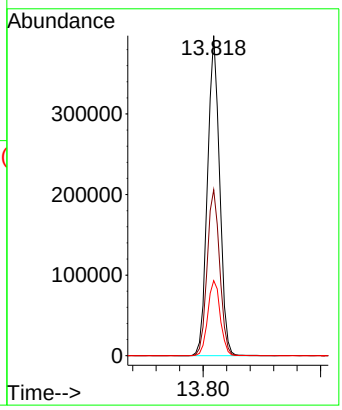




#89
n-Butylbenzene
Concen: 52.756 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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 :
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ClientSampleId :
VSTDICCC050

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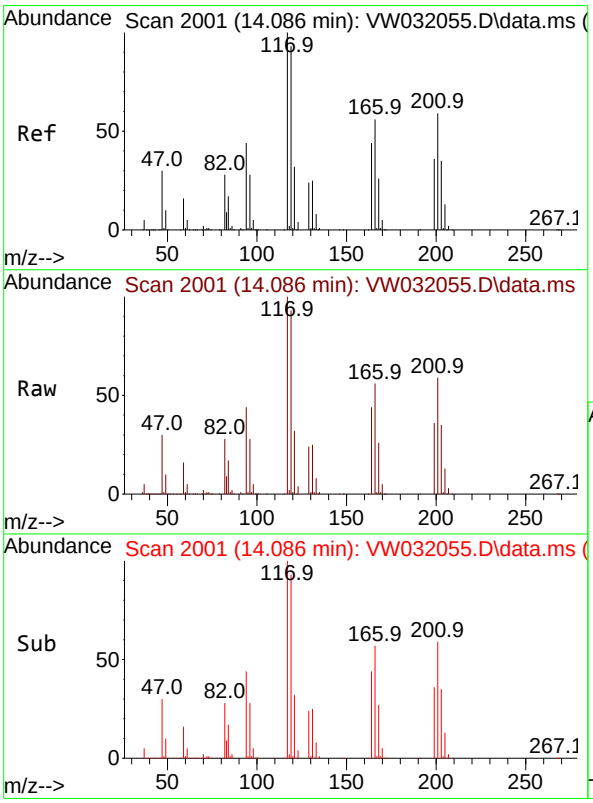
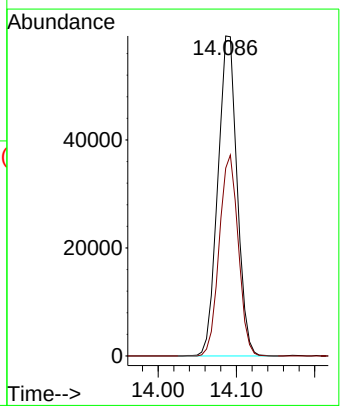
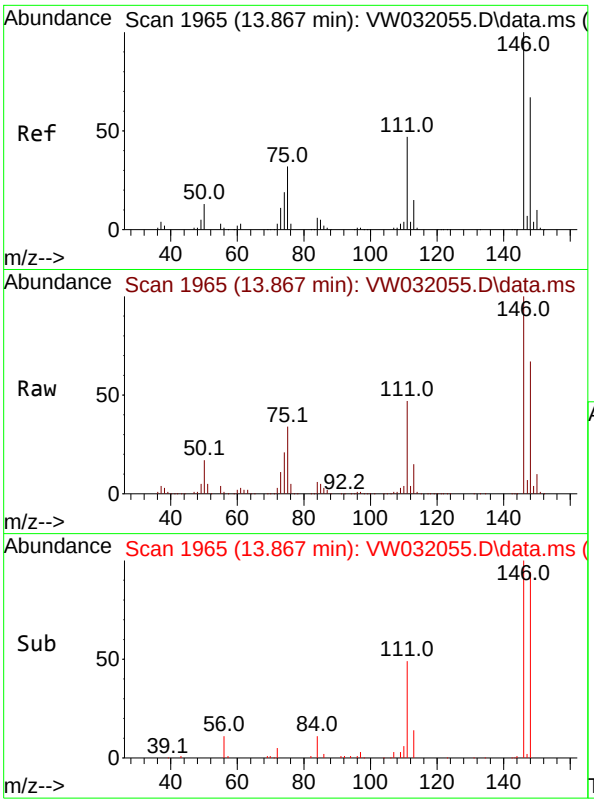


#90
Hexachloroethane
Concen: 49.942 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 101464

Ion	Ratio	Lower	Upper
117	100		
201	61.7	30.9	92.5

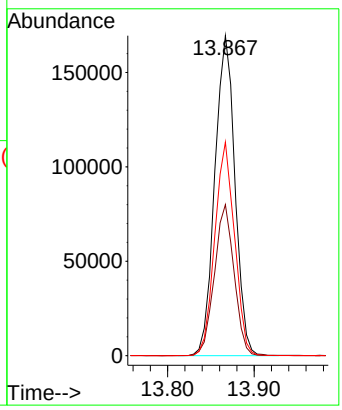




#91
1,2-Dichlorobenzene
Concen: 50.801 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



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ClientSampleId :
VSTDICCC050

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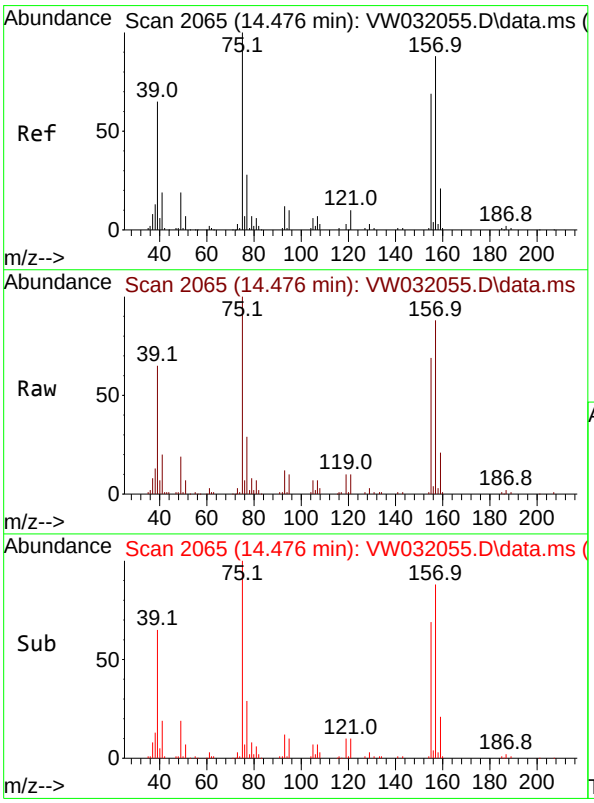
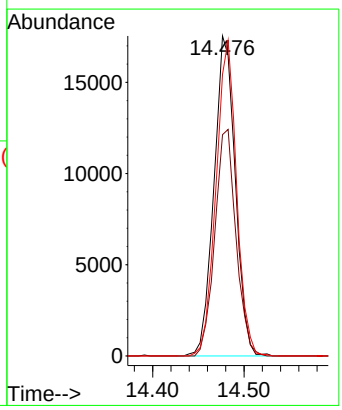
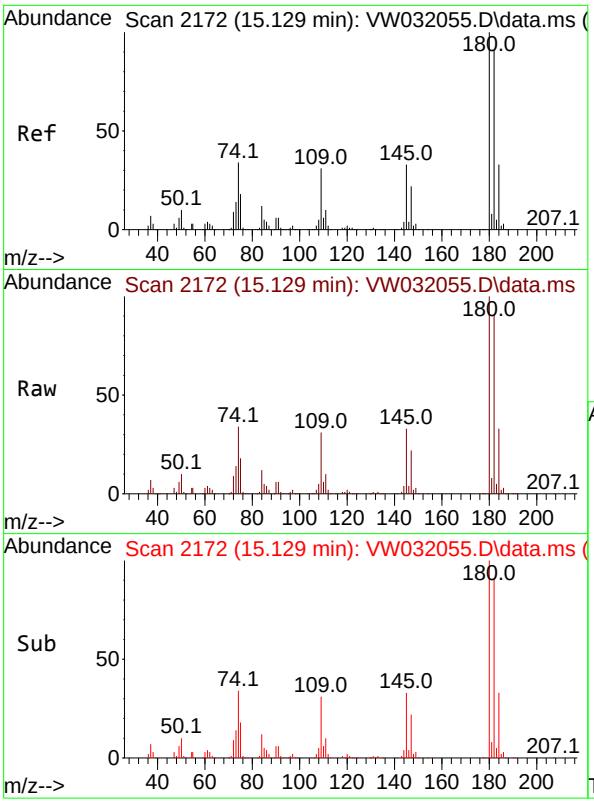


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.857 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

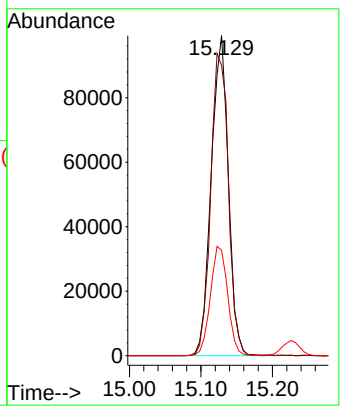




#93
1,2,4-Trichlorobenzene
Concen: 51.132 ug/l
RT: 15.129 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

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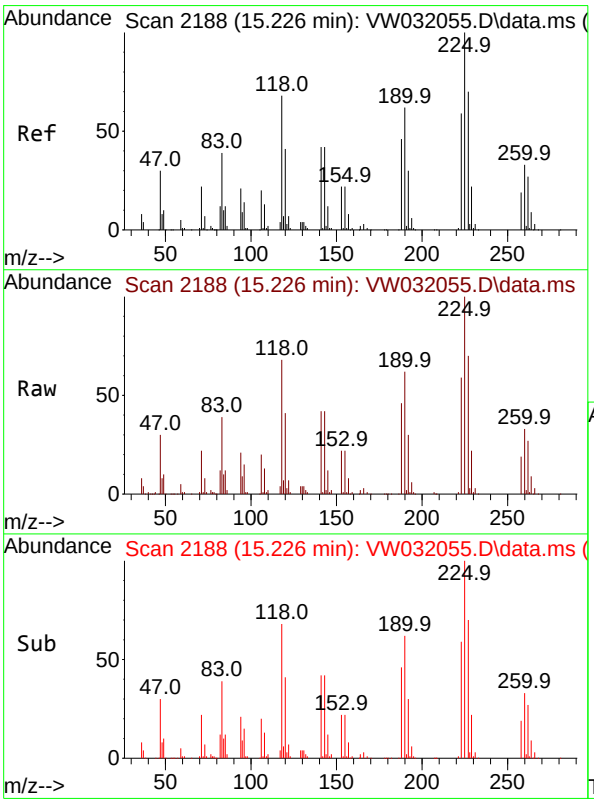
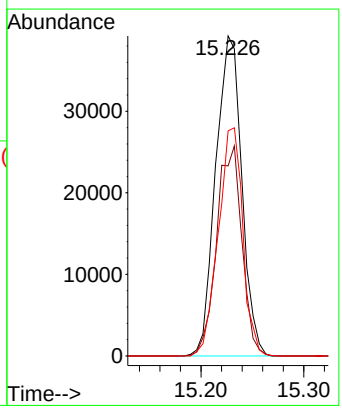
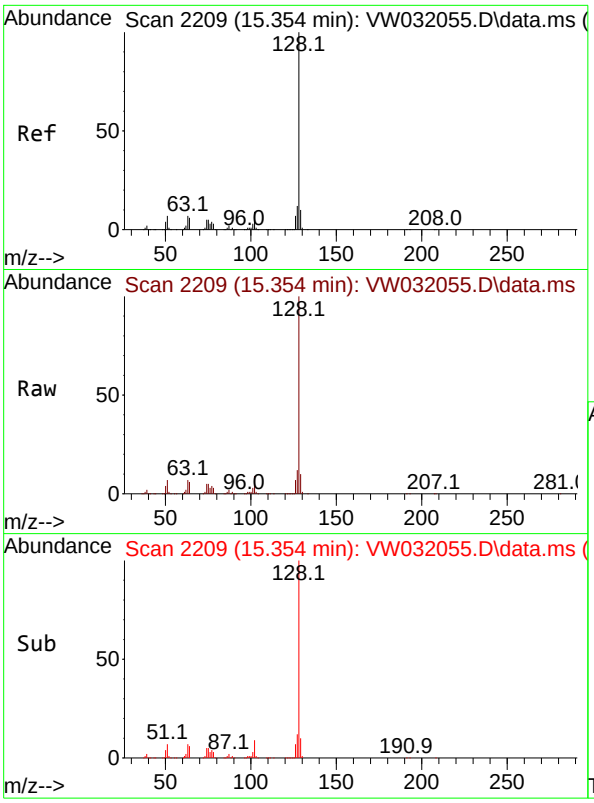


#94
Hexachlorobutadiene
Concen: 47.902 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

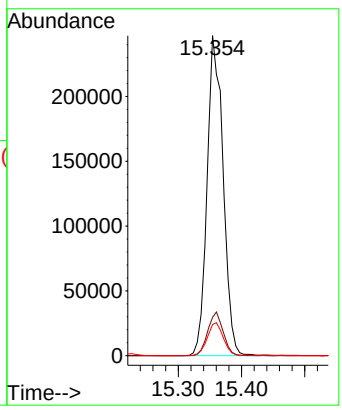




#95
Naphthalene
Concen: 55.099 ug/l
RT: 15.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:128 Resp: 43494

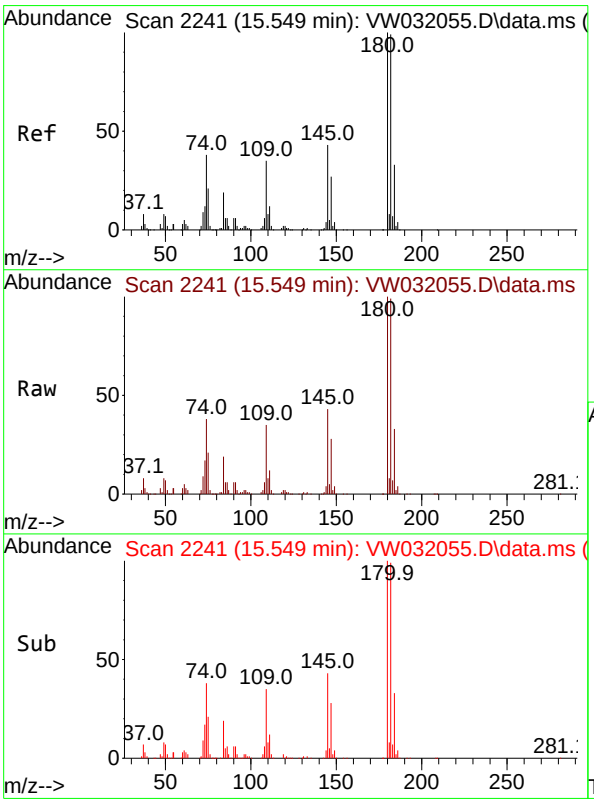
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.3	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

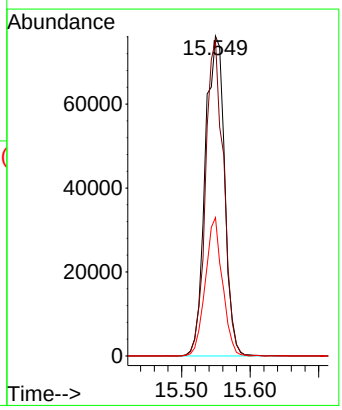
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#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



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

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

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

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

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

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

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda

08/12/2025
Supervised By :Semsettin Yesilyurt

08/12/2025

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

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

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

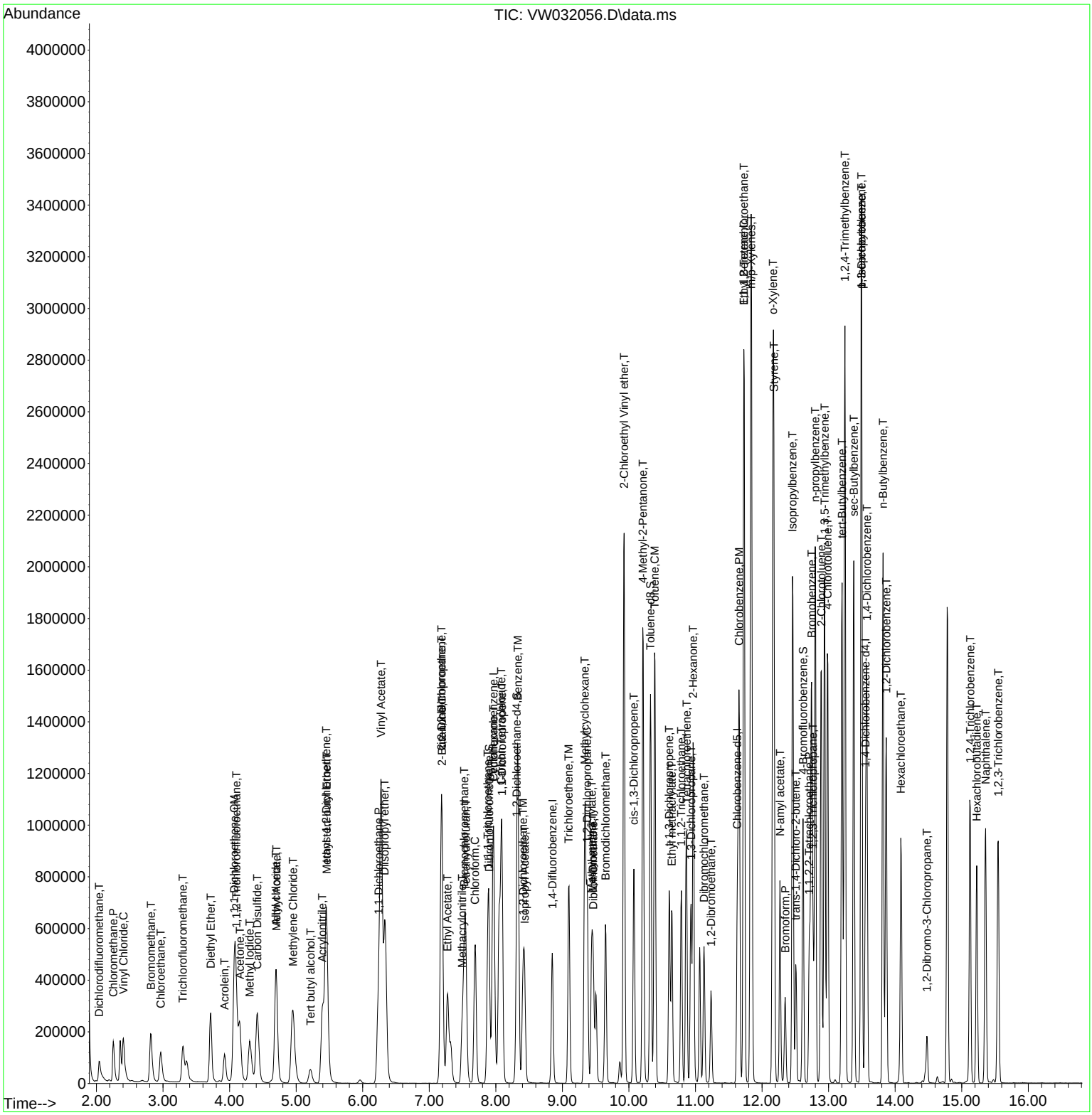
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

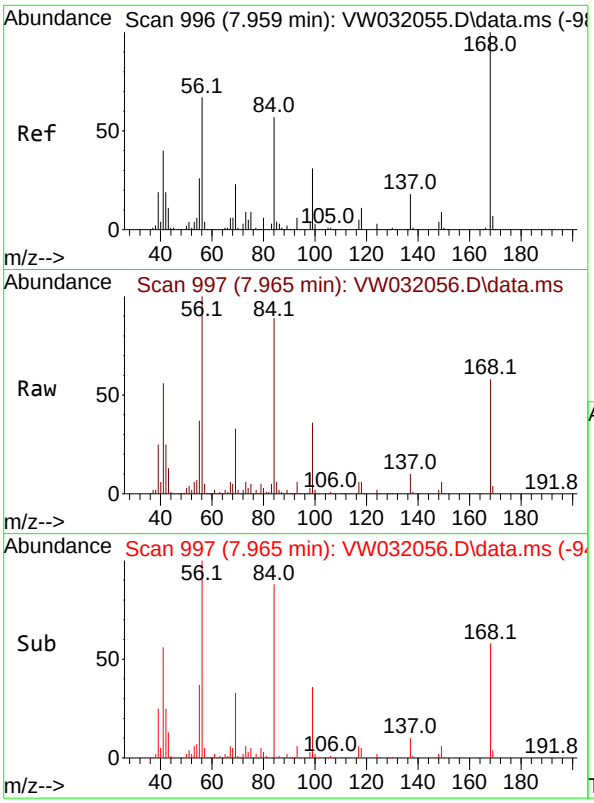
Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

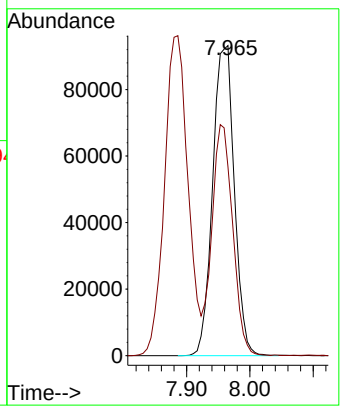




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:168 Resp: 22138

Ion	Ratio	Lower	Upper
168	100		
99	60.8	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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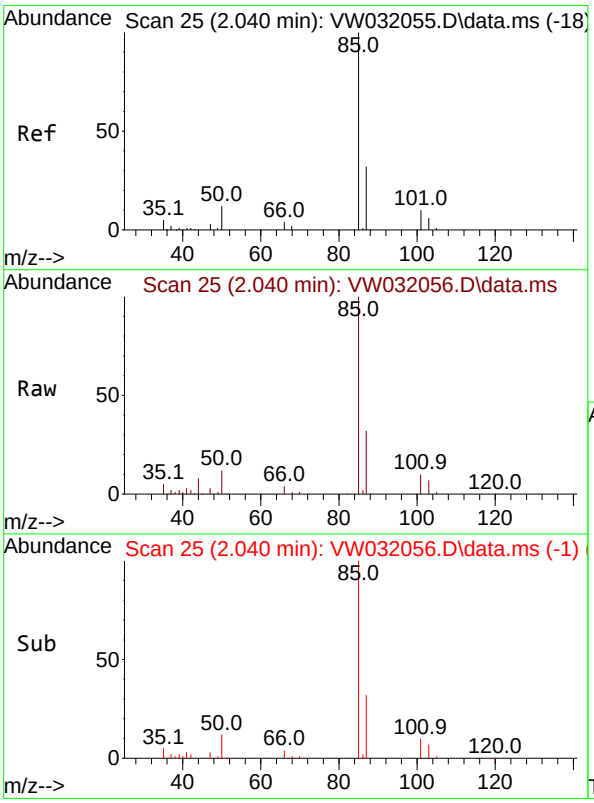
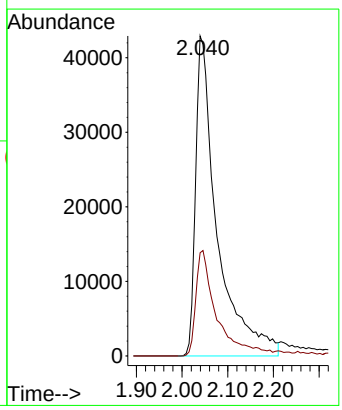
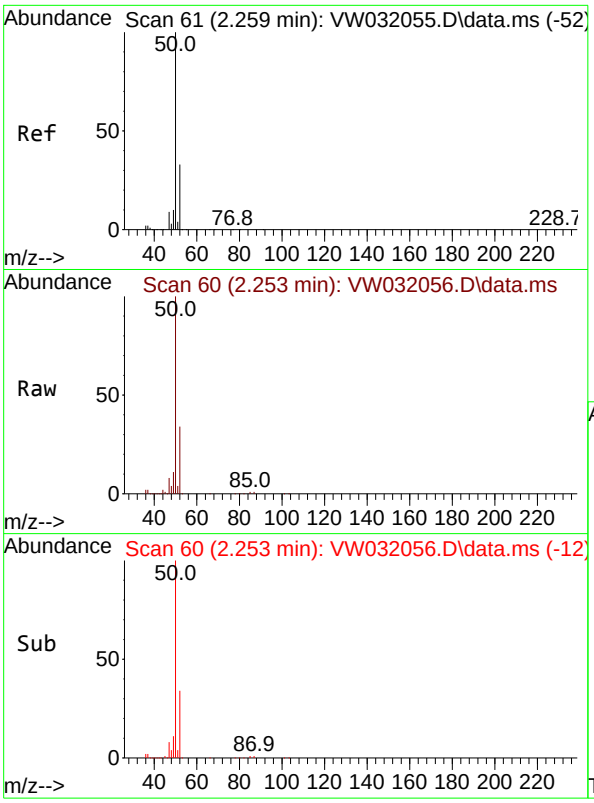


#2
Dichlorodifluoromethane
Concen: 88.627 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 85 Resp: 140330

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6

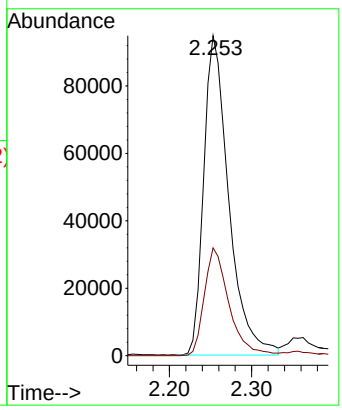




#3
Chloromethane
Concen: 93.894 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 50 Resp: 20026

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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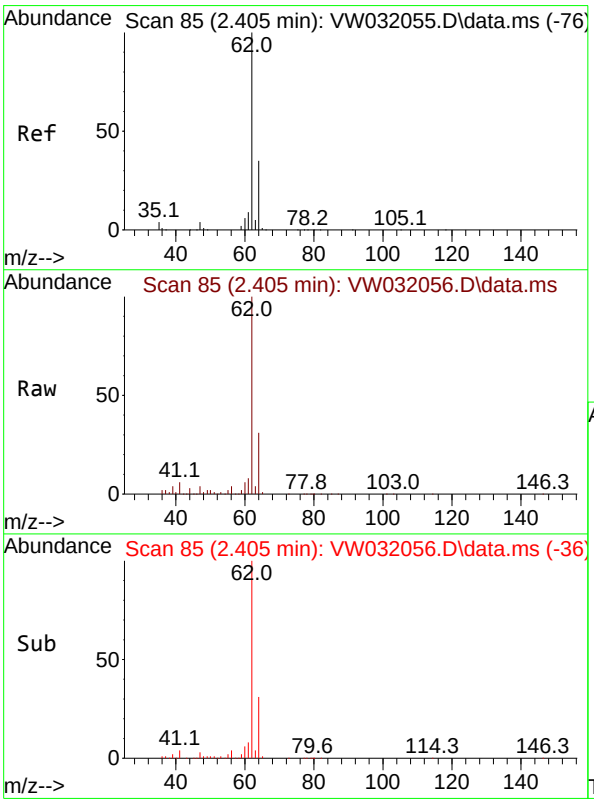
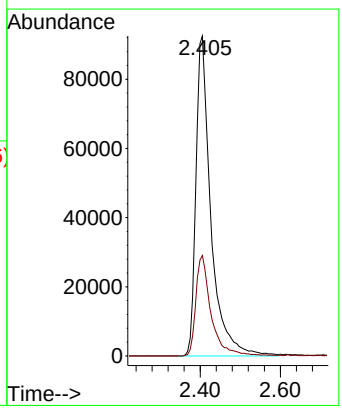
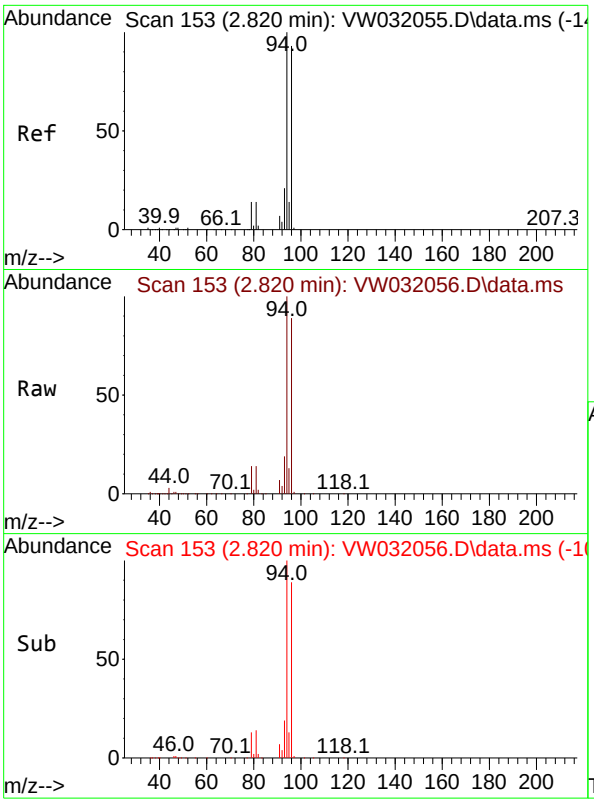


#4
Vinyl Chloride
Concen: 92.654 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 239040

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.8	41.6

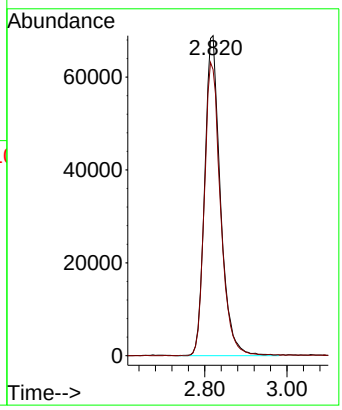




#5
Bromomethane
Concen: 94.386 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 94 Resp: 18268

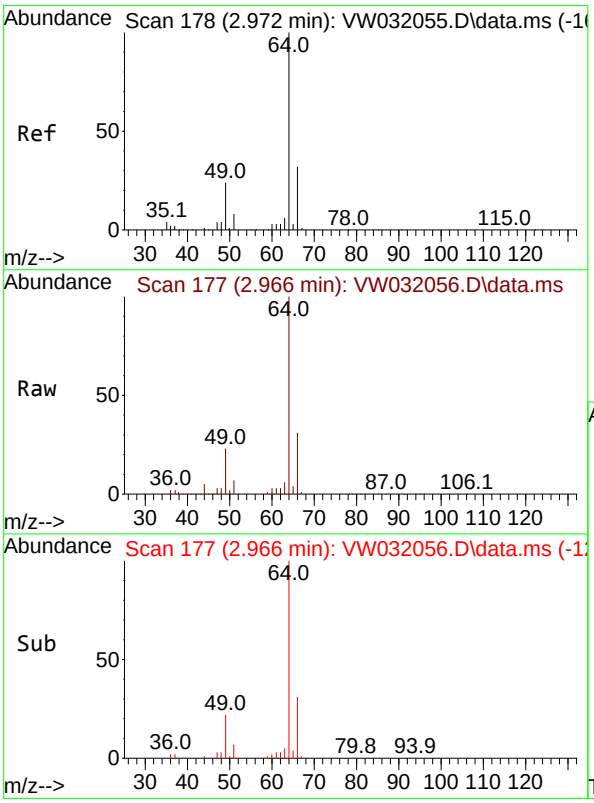
Ion	Ratio	Lower	Upper
94	100		
96	89.4	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

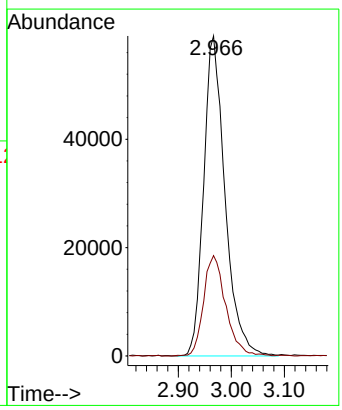
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

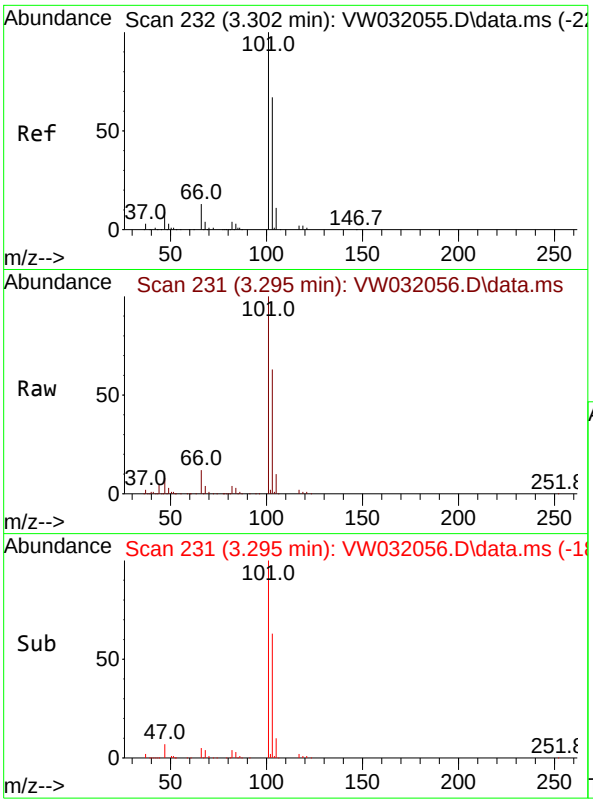


#6
Chloroethane
Concen: 96.628 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

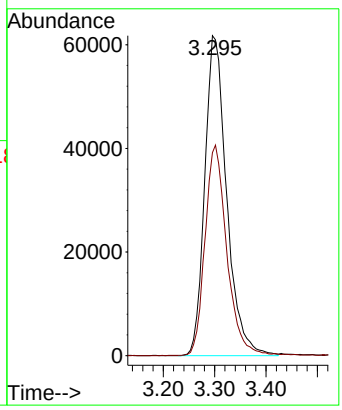
Tgt Ion:101 Resp: 18266

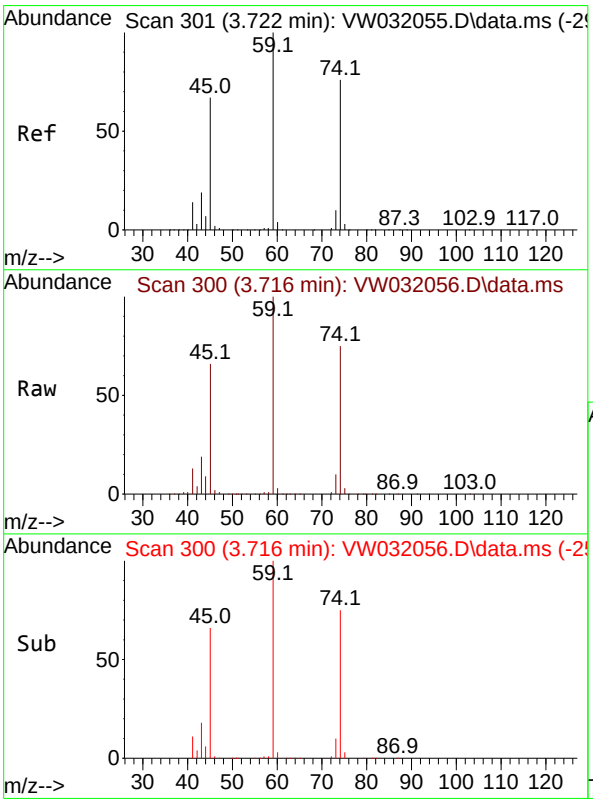
Ion	Ratio	Lower	Upper
101	100		
103	63.3	53.4	80.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

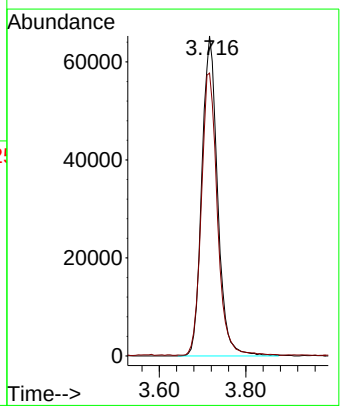


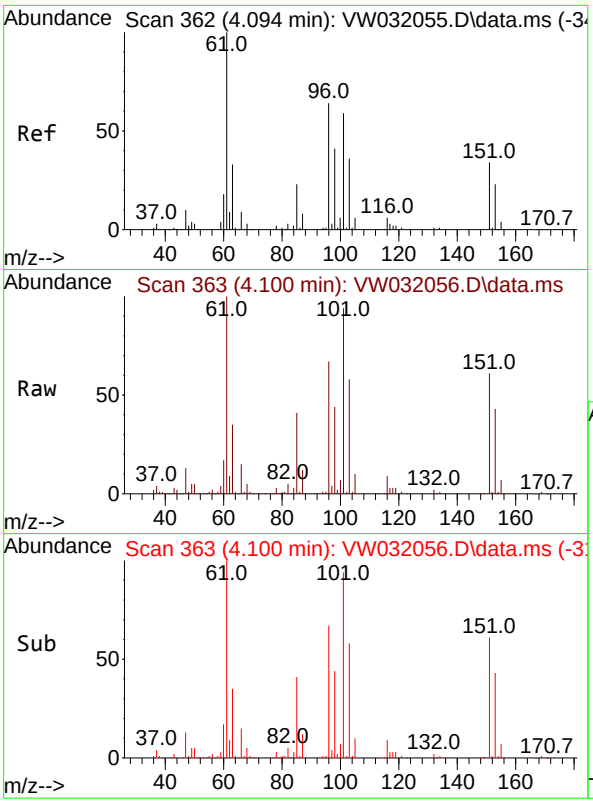


#8
Diethyl Ether
Concen: 97.227 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 74 Resp: 164632

Ion	Ratio	Lower	Upper
74	100		
45	90.1	45.4	136.2

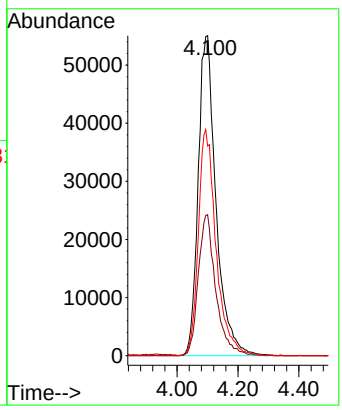




#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.988 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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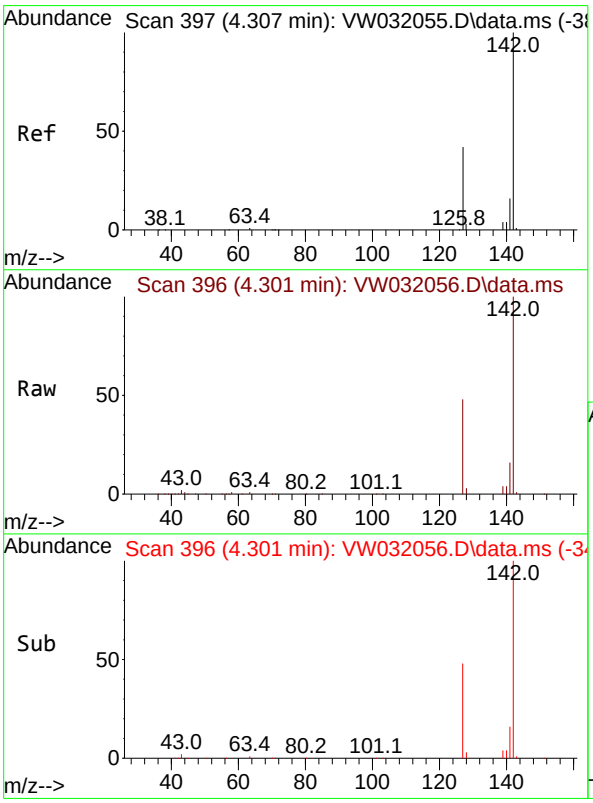
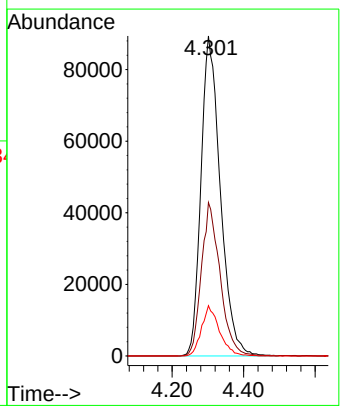
Supervised By :Semsettin Yesilyurt 08/12/2025

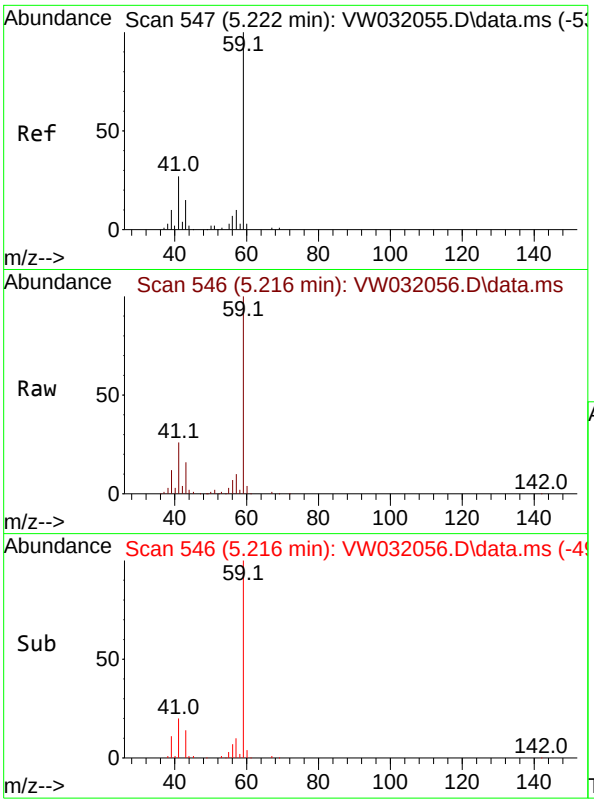


#10
Methyl Iodide
Concen: 97.237 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

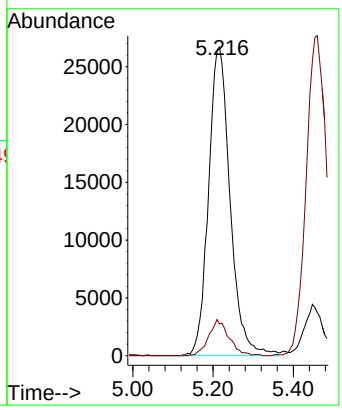




#11
Tert butyl alcohol
Concen: 480.735 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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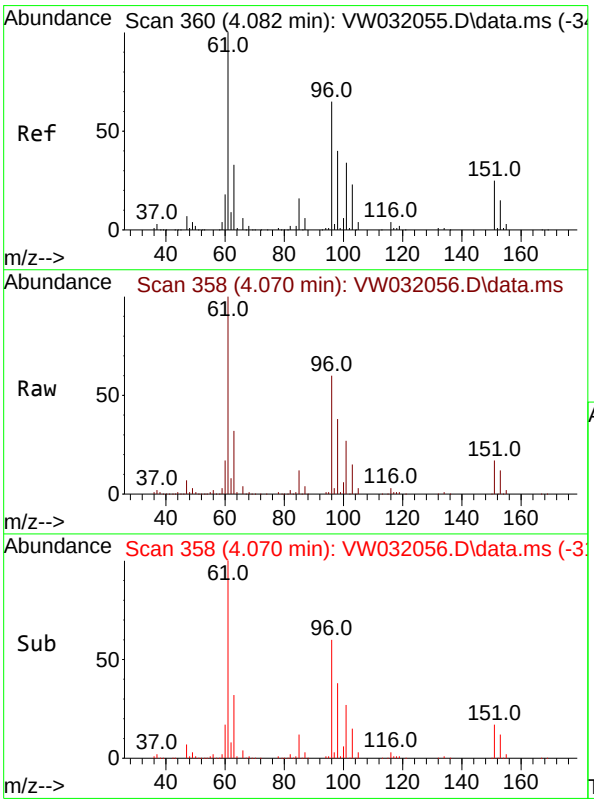
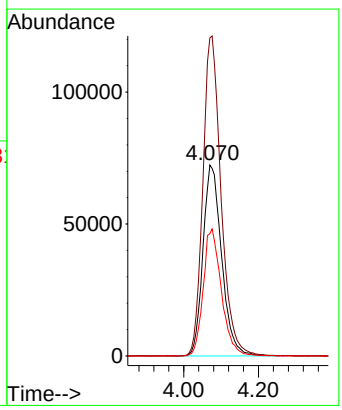
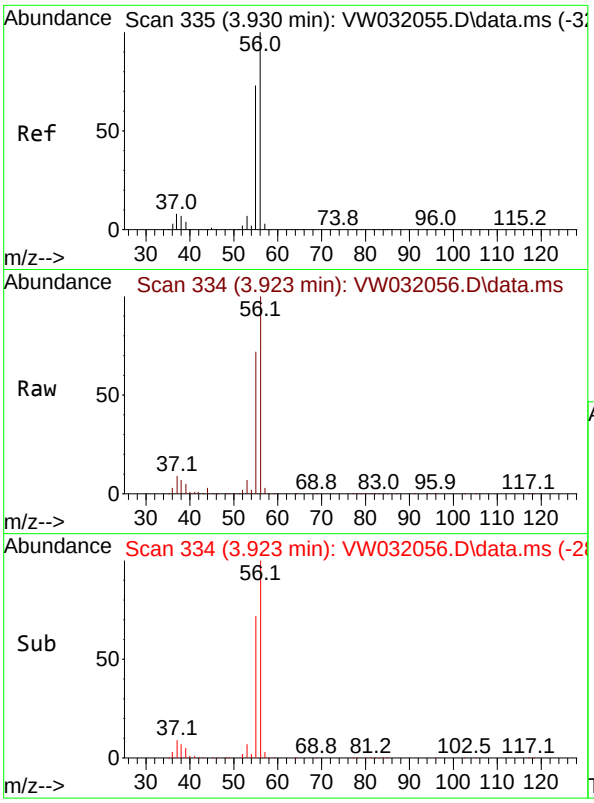


#12
1,1-Dichloroethene
Concen: 93.615 ug/l
RT: 4.070 min Scan# 358
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

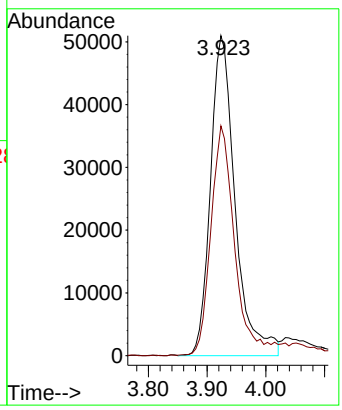




#13
Acrolein
Concen: 449.230 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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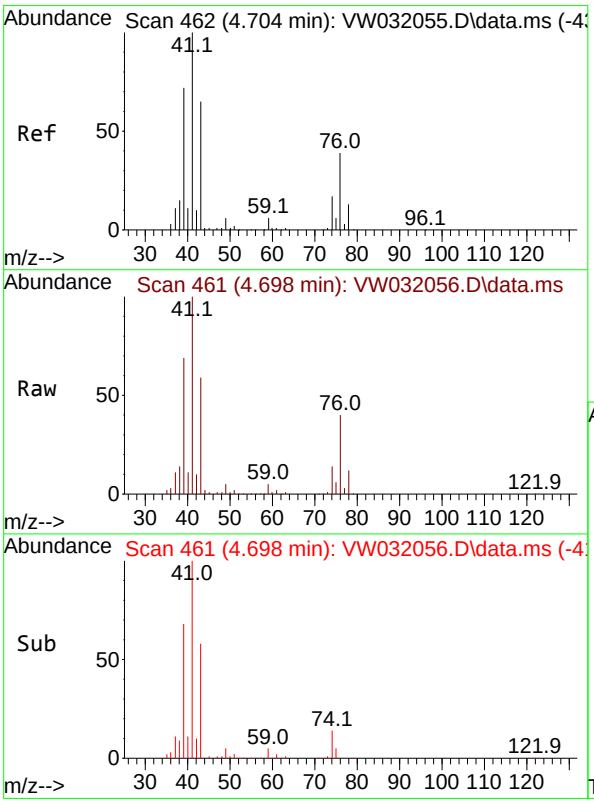
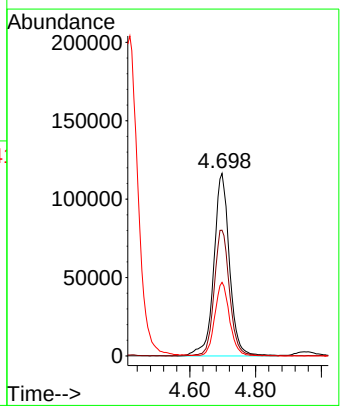
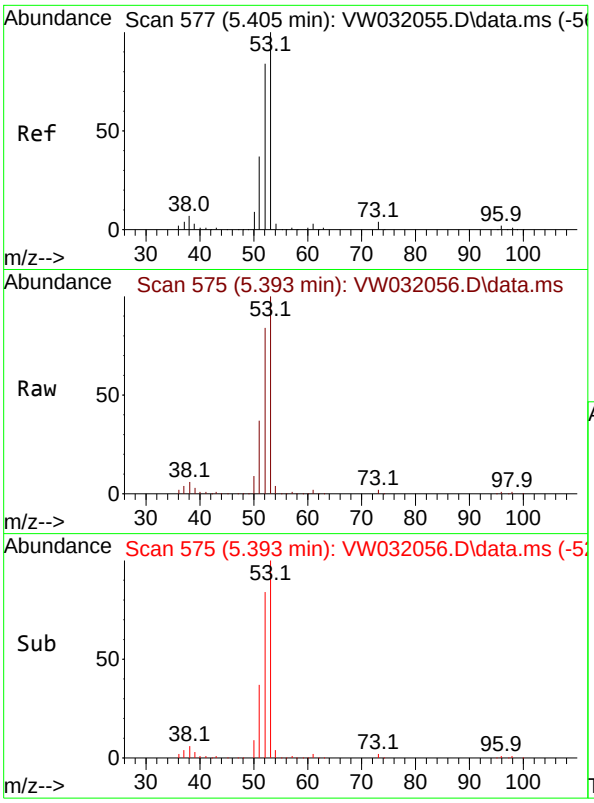


#14
Allyl chloride
Concen: 98.543 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

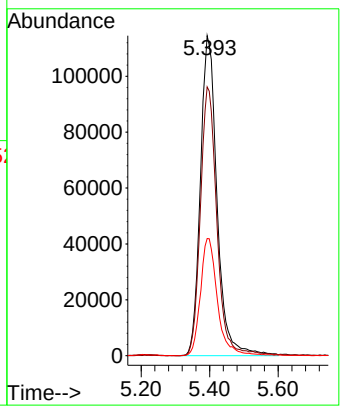




#15
Acrylonitrile
Concen: 481.445 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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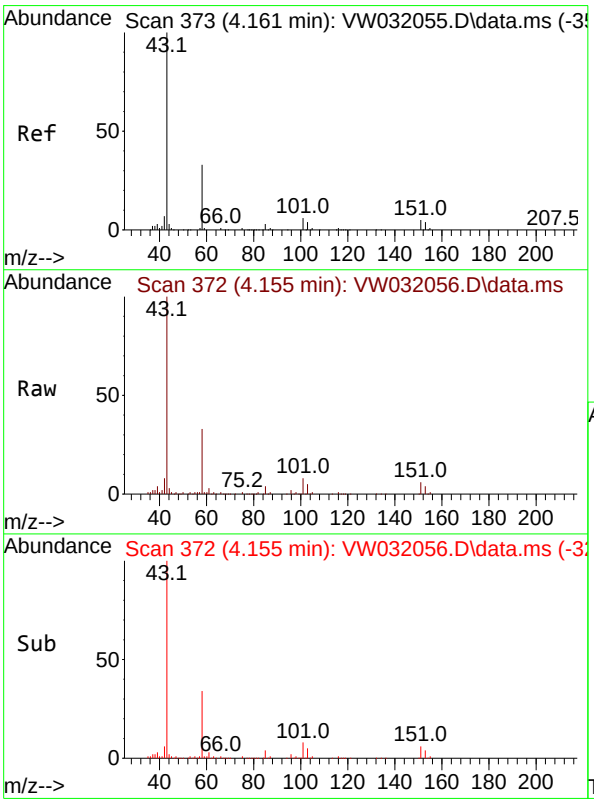
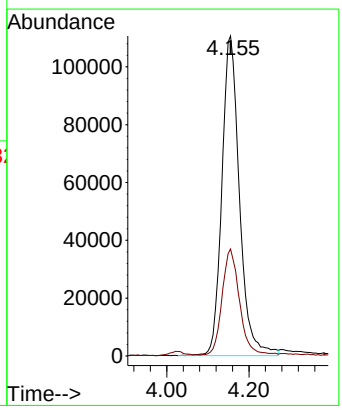
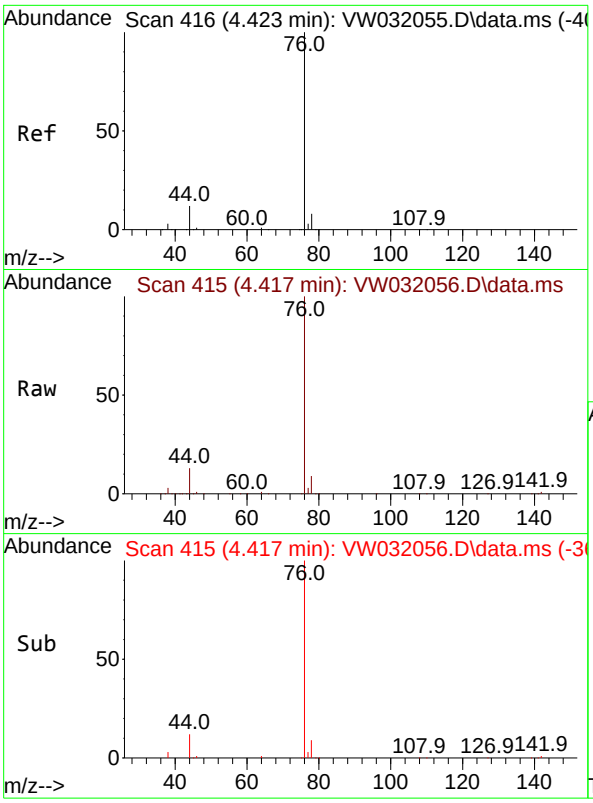


#16
Acetone
Concen: 443.358 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 328664

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8

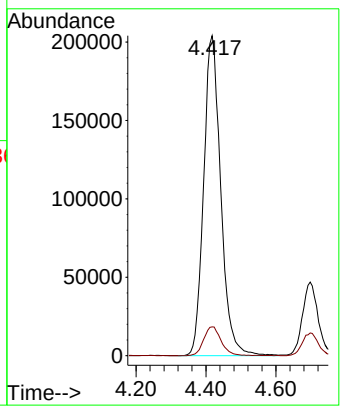




#17
Carbon Disulfide
Concen: 96.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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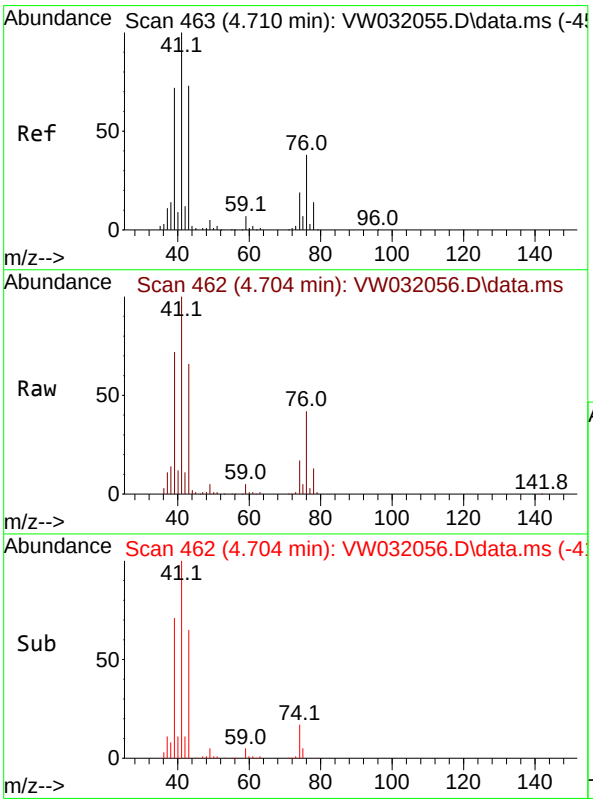
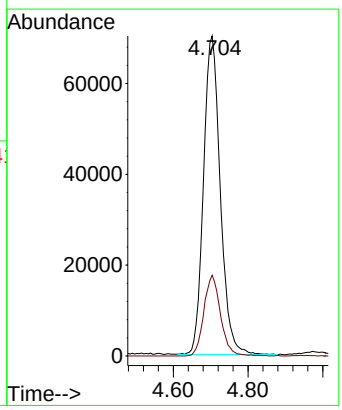
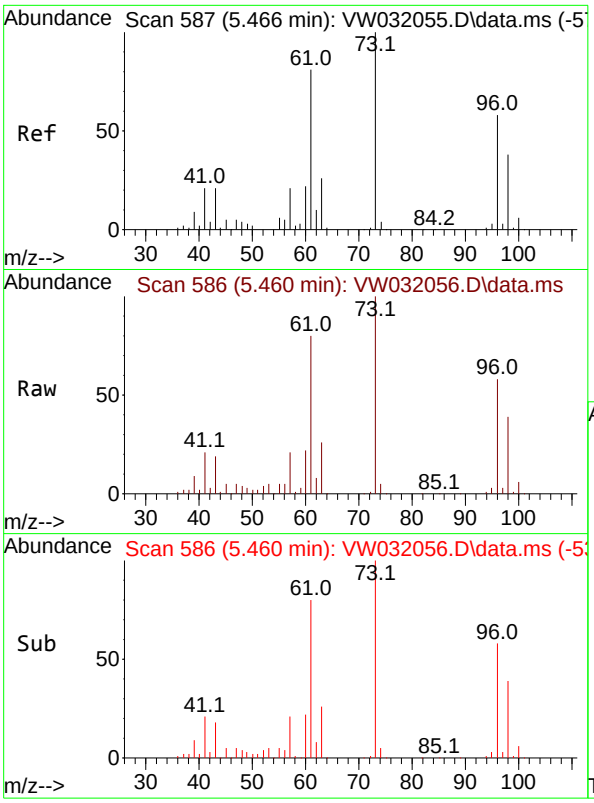


#18
Methyl Acetate
Concen: 93.230 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 218695

Ion	Ratio	Lower	Upper
43	100		
74	25.0	20.6	31.0

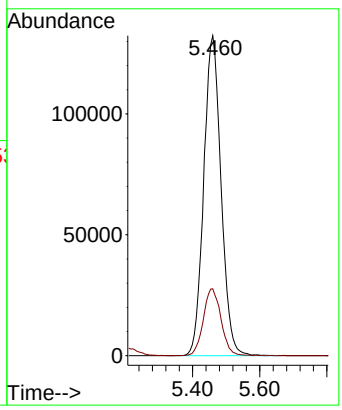




#19
Methyl tert-butyl Ether
Concen: 100.184 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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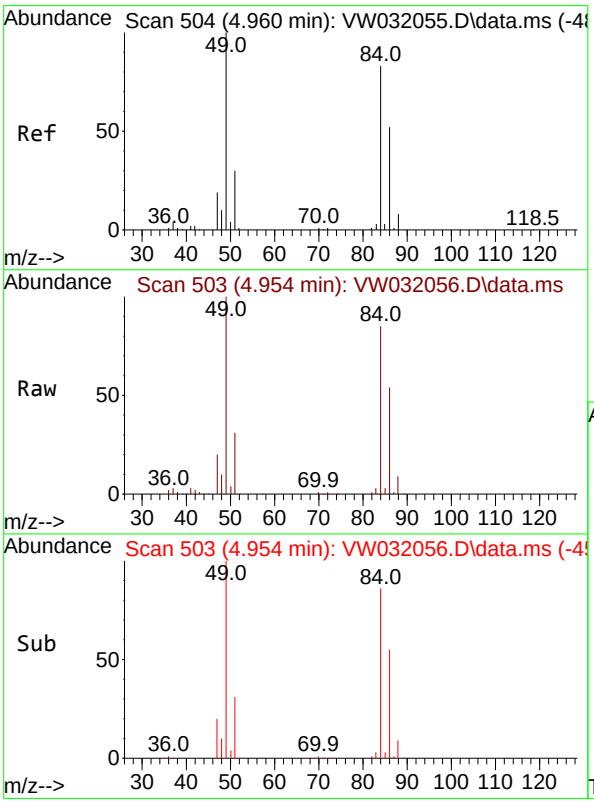
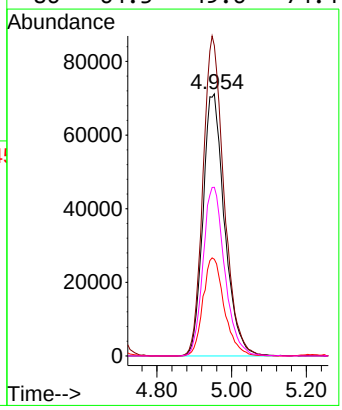
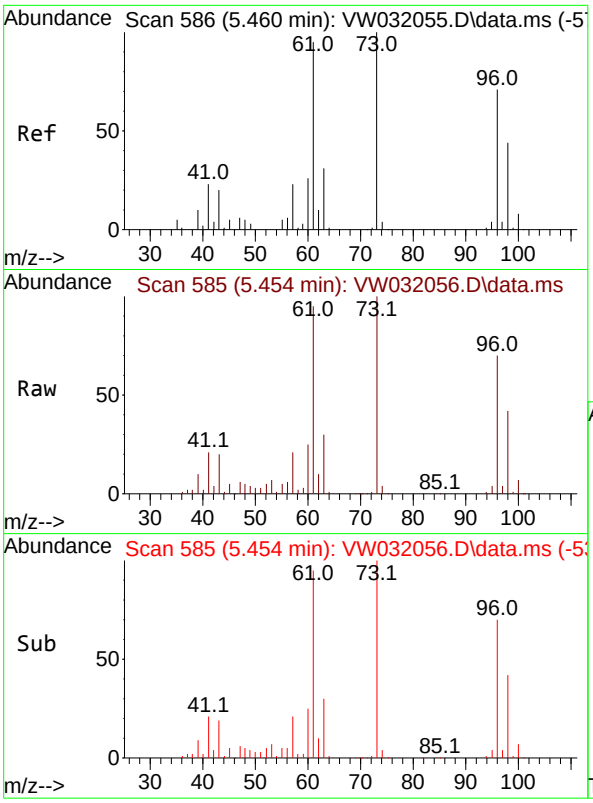


#20
Methylene Chloride
Concen: 83.165 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

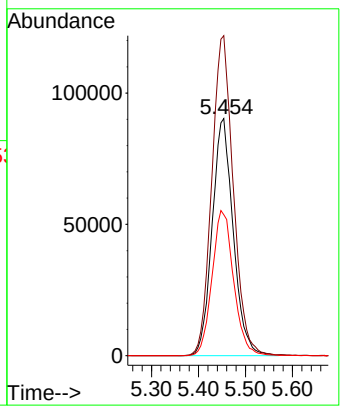




#21
trans-1,2-Dichloroethene
Concen: 98.787 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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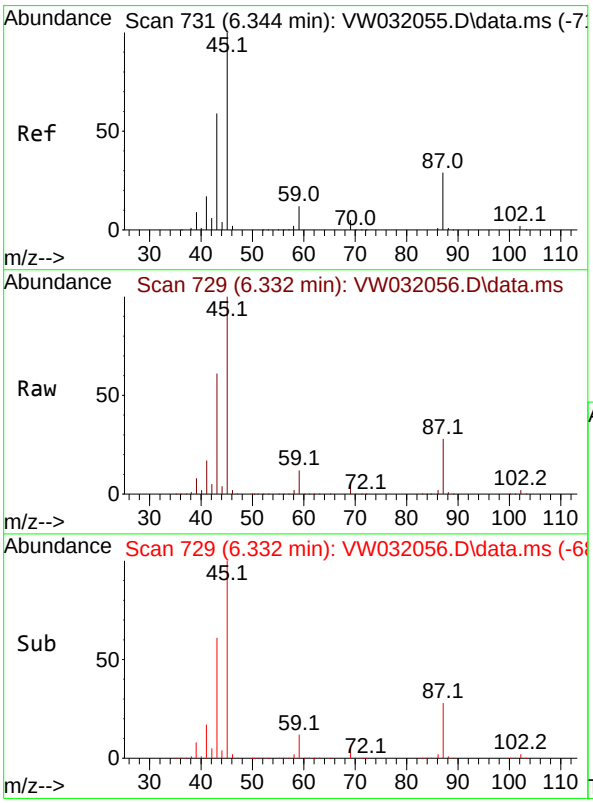
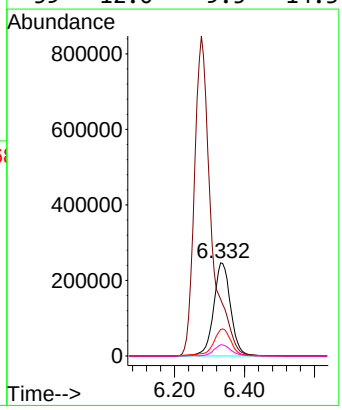
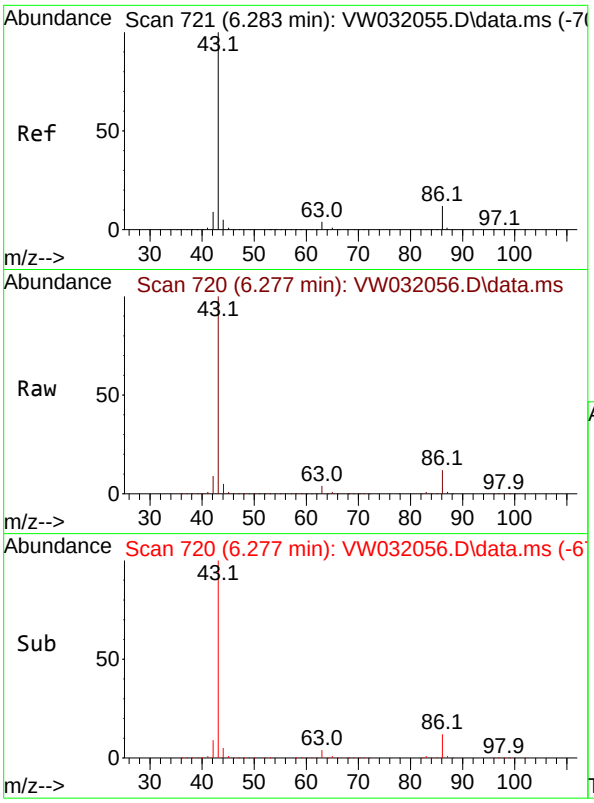


#22
Diisopropyl ether
Concen: 100.722 ug/l
RT: 6.332 min Scan# 729
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

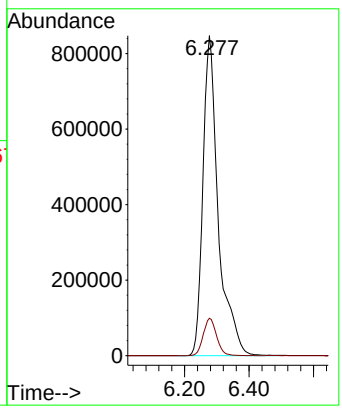




#23
Vinyl Acetate
Concen: 518.312 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 280325

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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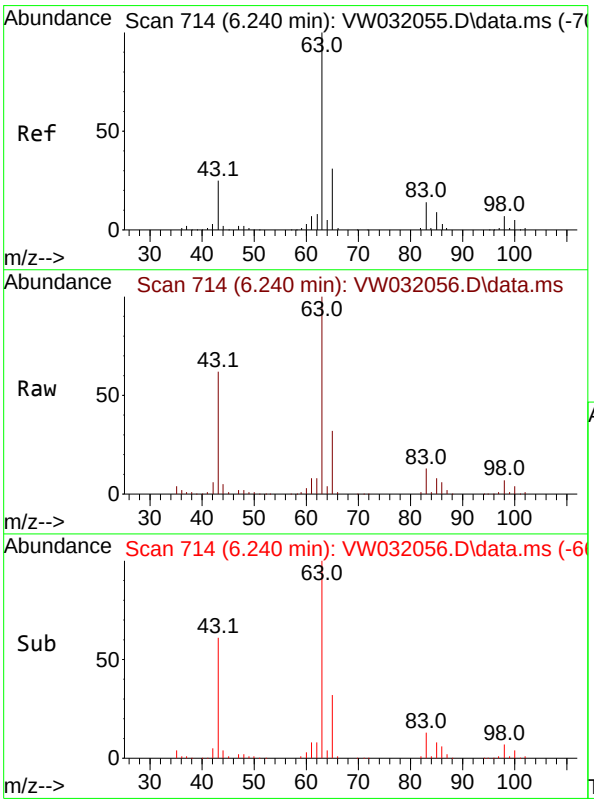
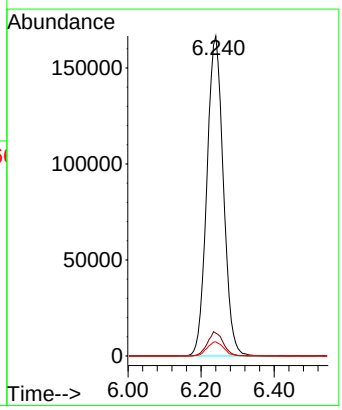
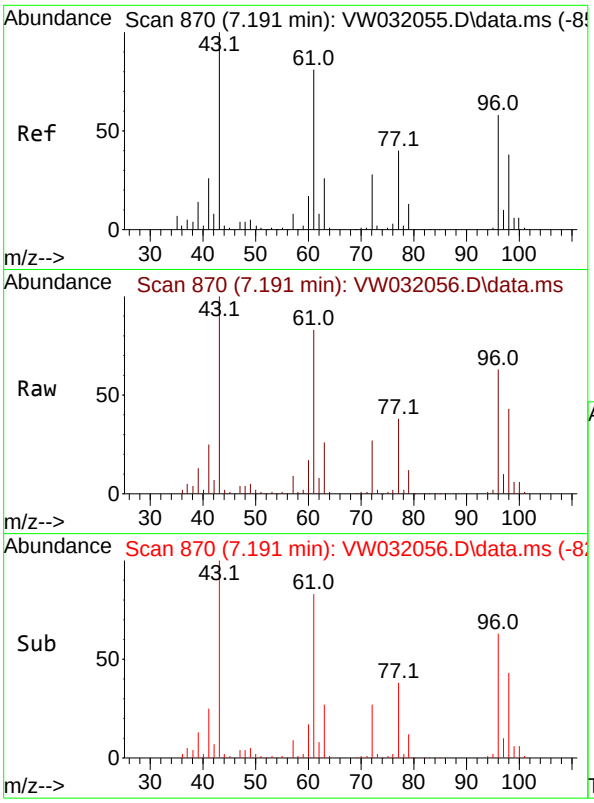


#24
1,1-Dichloroethane
Concen: 98.678 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

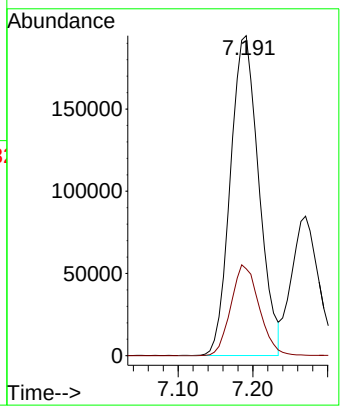




#25
2-Butanone
Concen: 489.508 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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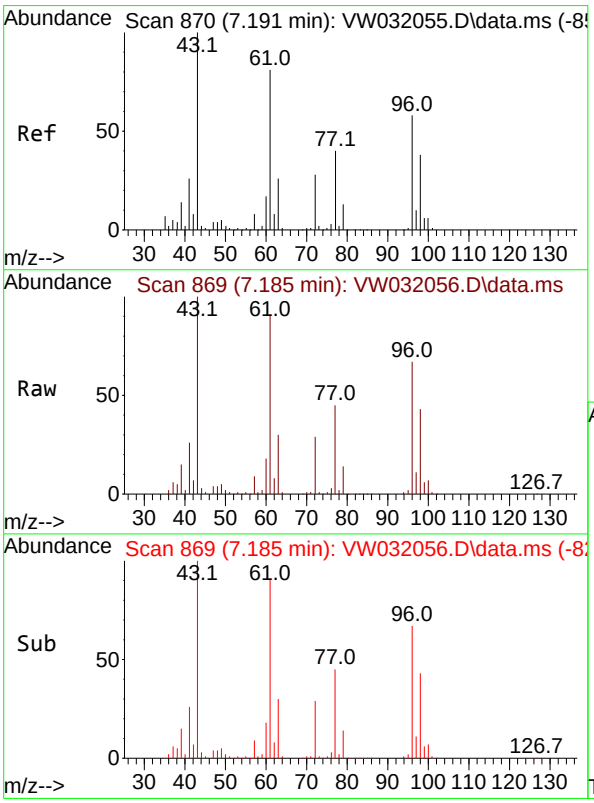
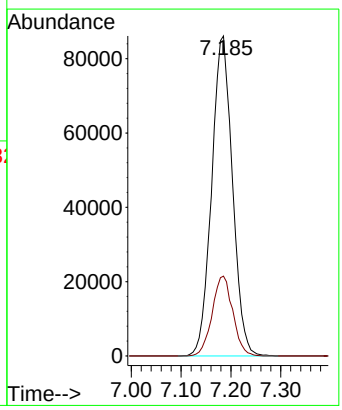
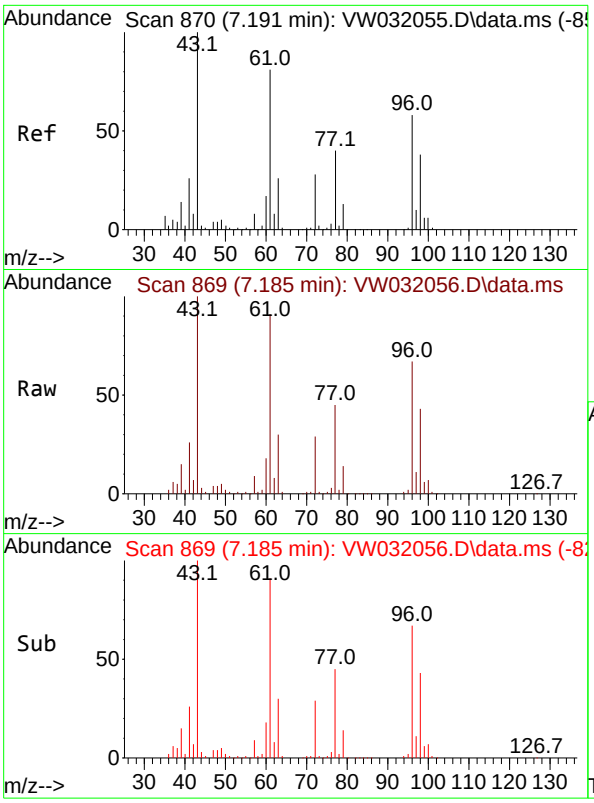


#26
2,2-Dichloropropane
Concen: 94.405 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 77 Resp: 249271

Ion	Ratio	Lower	Upper
77	100		
97	24.8	12.3	36.9

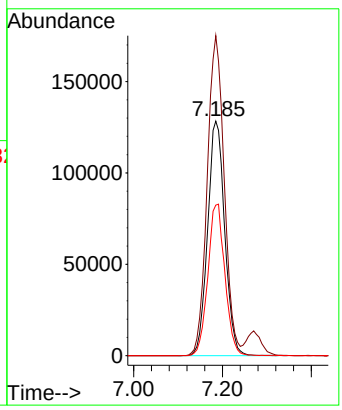




#27
cis-1,2-Dichloroethene
Concen: 103.016 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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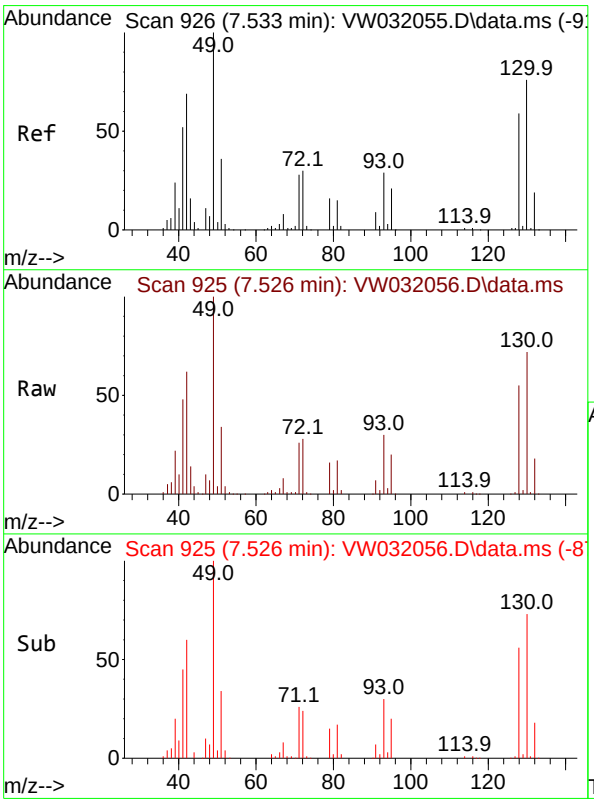
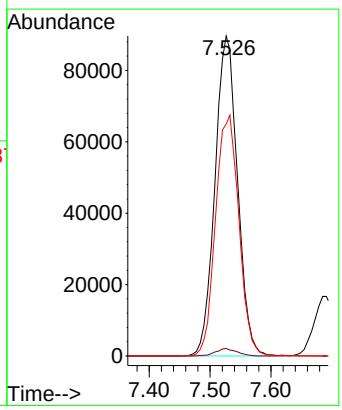
Supervised By :Semsettin Yesilyurt 08/12/2025

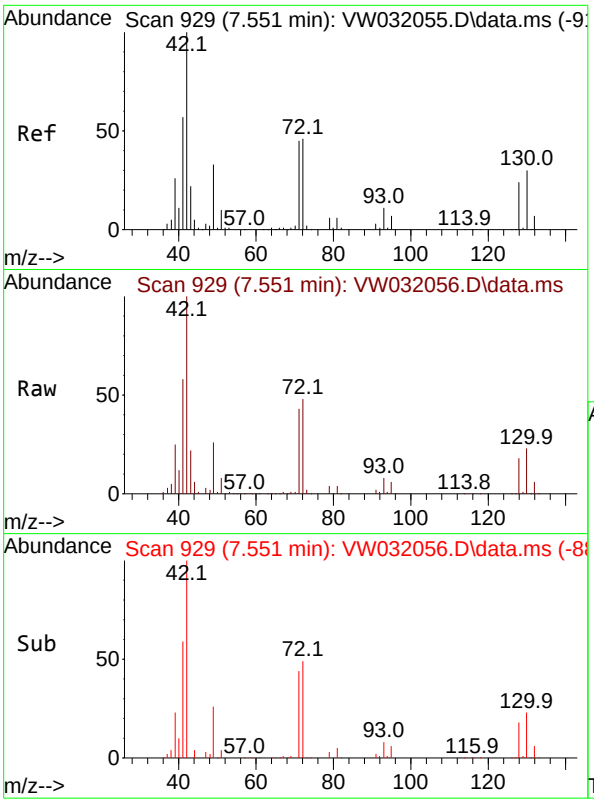


#28
Bromochloromethane
Concen: 96.333 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

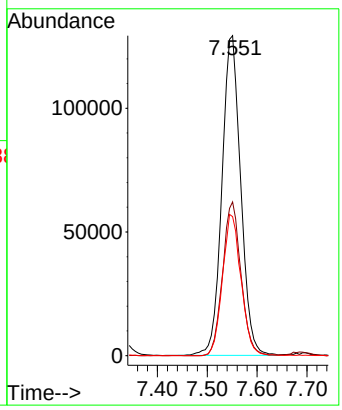




#29
Tetrahydrofuran
Concen: 487.284 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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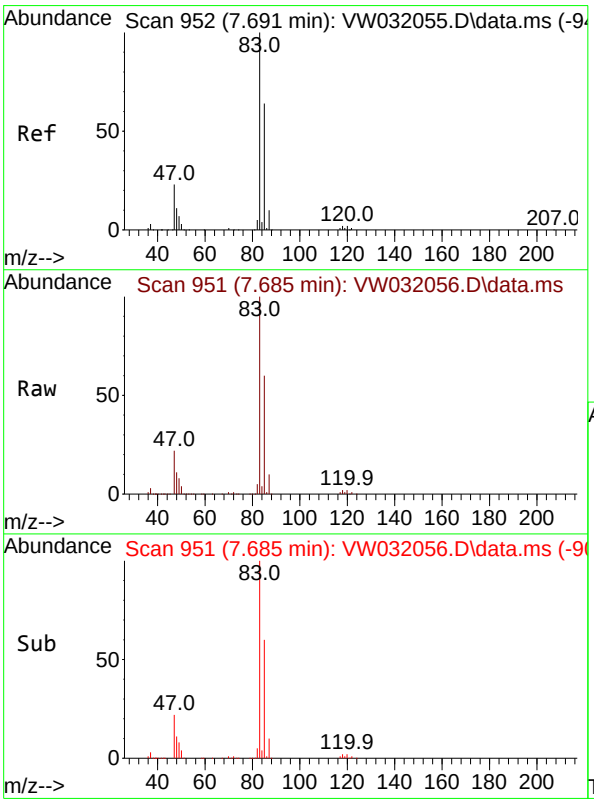
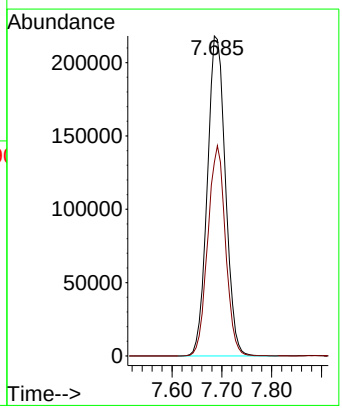
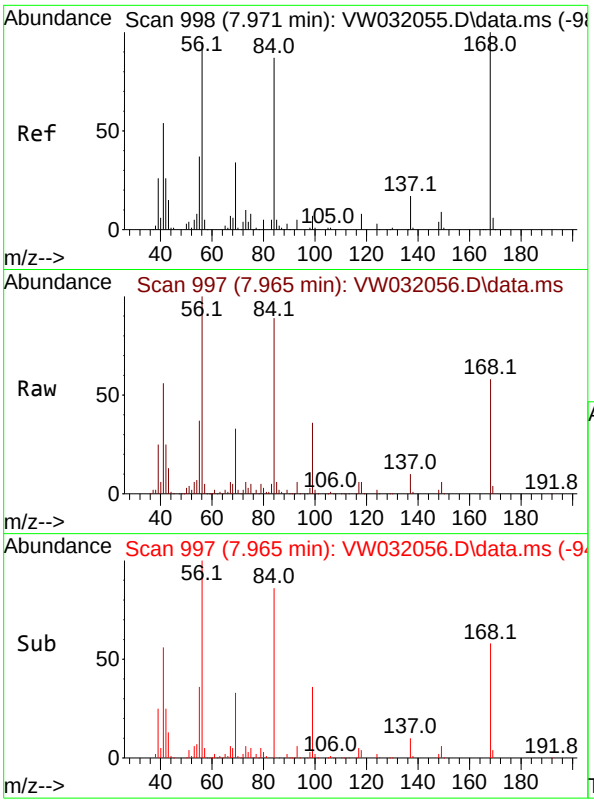


#30
Chloroform
Concen: 98.613 ug/l
RT: 7.685 min Scan# 951
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 550232

Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.0	76.4

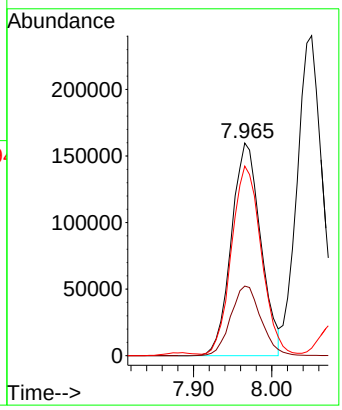




#31
Cyclohexane
Concen: 91.292 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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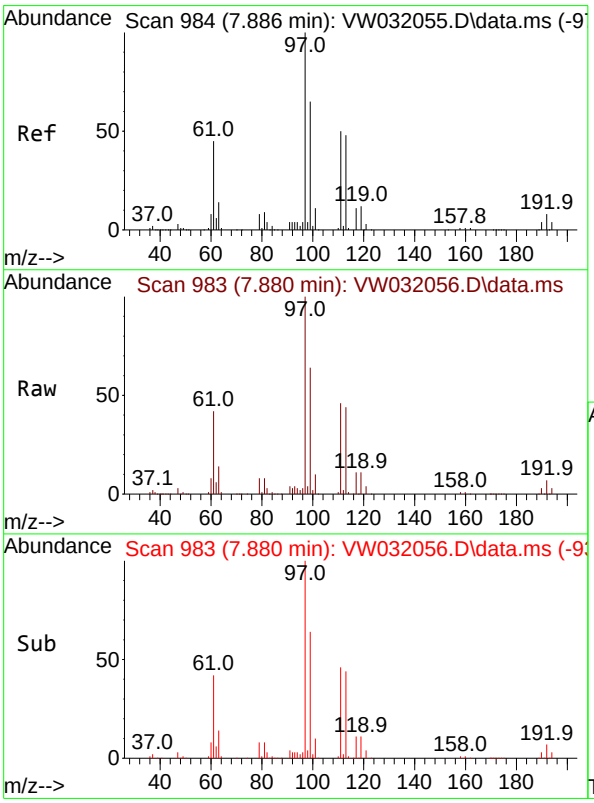
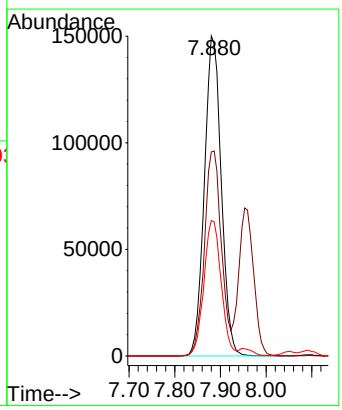
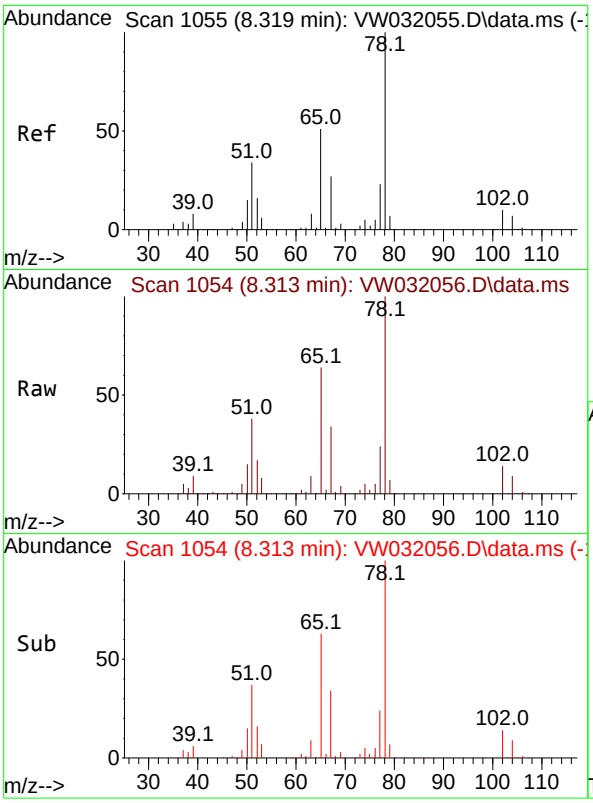


#32
1,1,1-Trichloroethane
Concen: 94.913 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

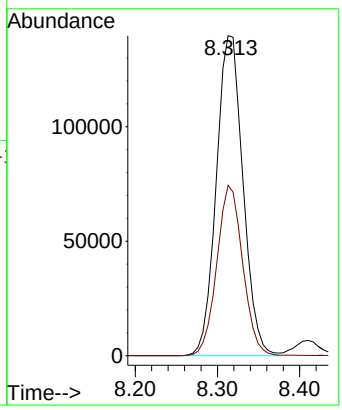




#33
1,2-Dichloroethane-d4
Concen: 98.509 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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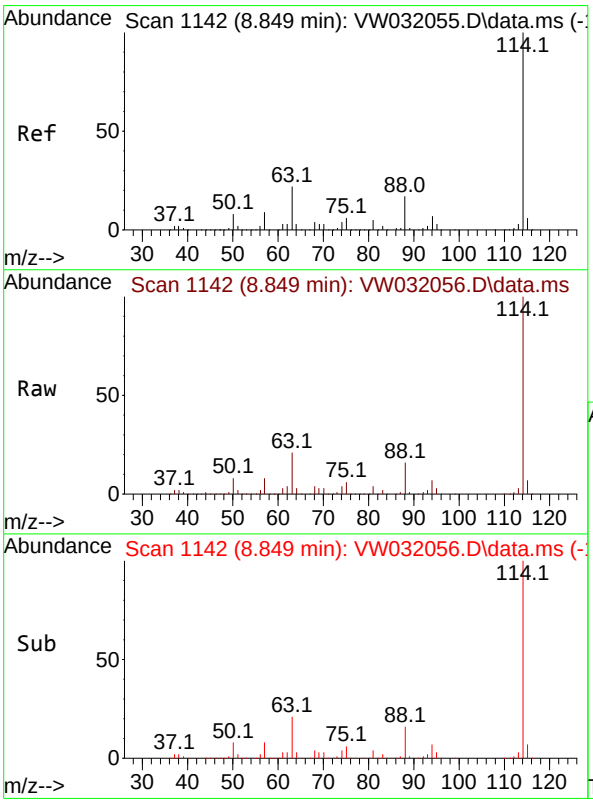
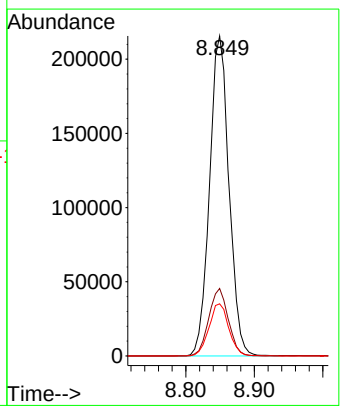
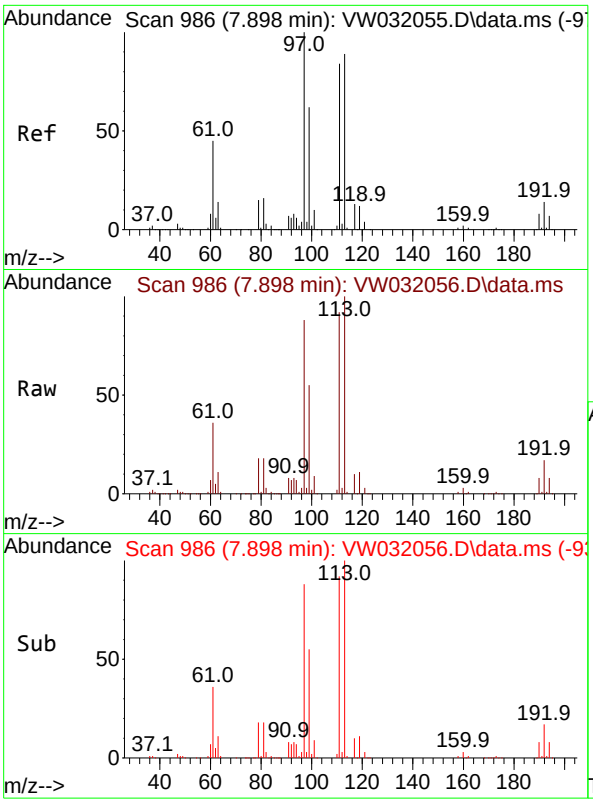


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

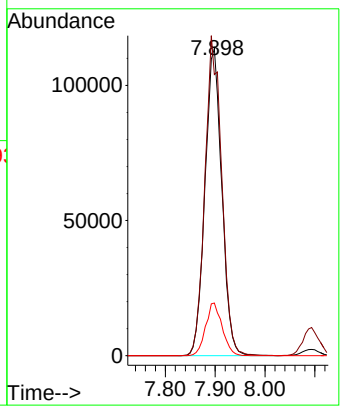




#35
Dibromofluoromethane
Concen: 96.945 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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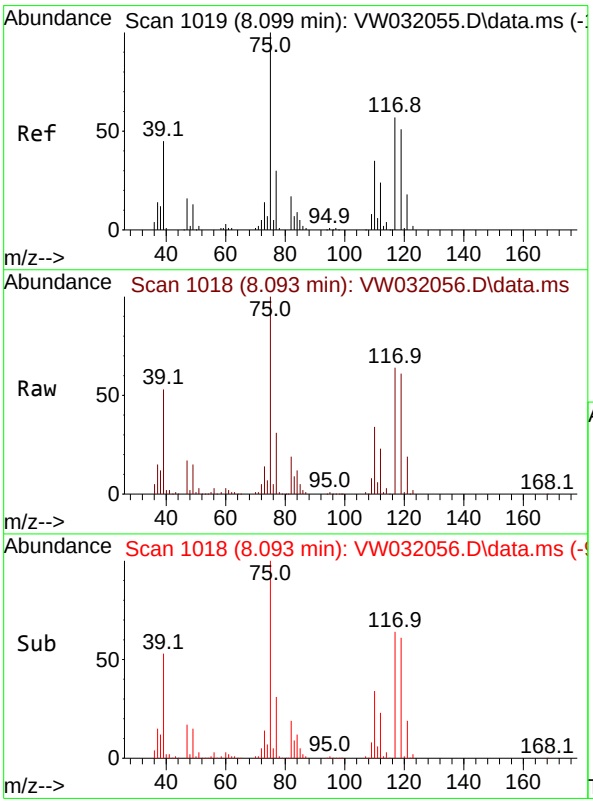
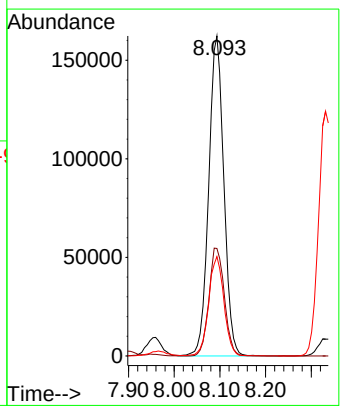
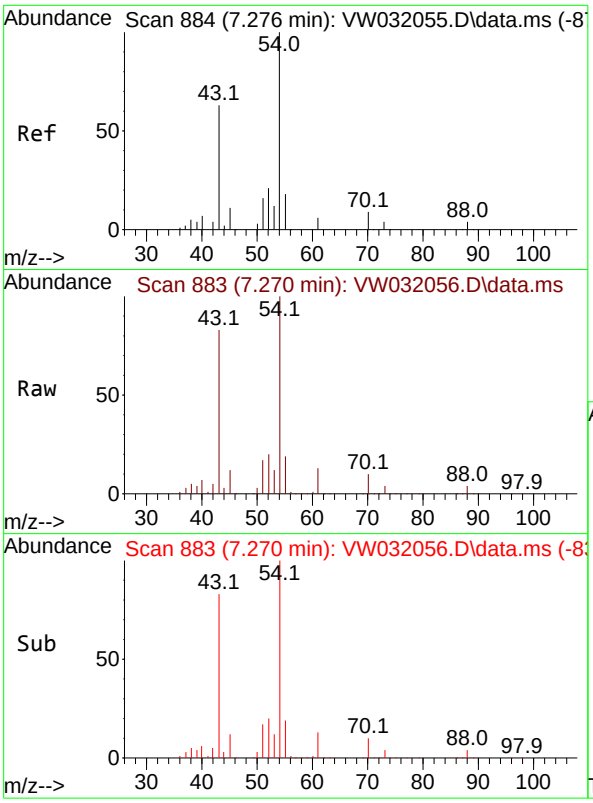


#36
1,1-Dichloropropene
Concen: 96.444 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

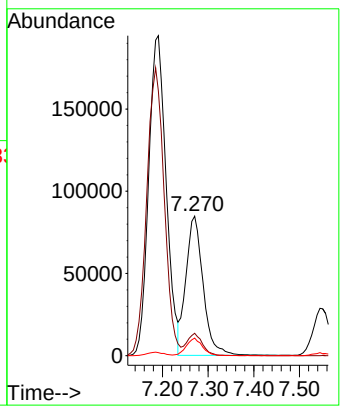




#37
Ethyl Acetate
Concen: 97.375 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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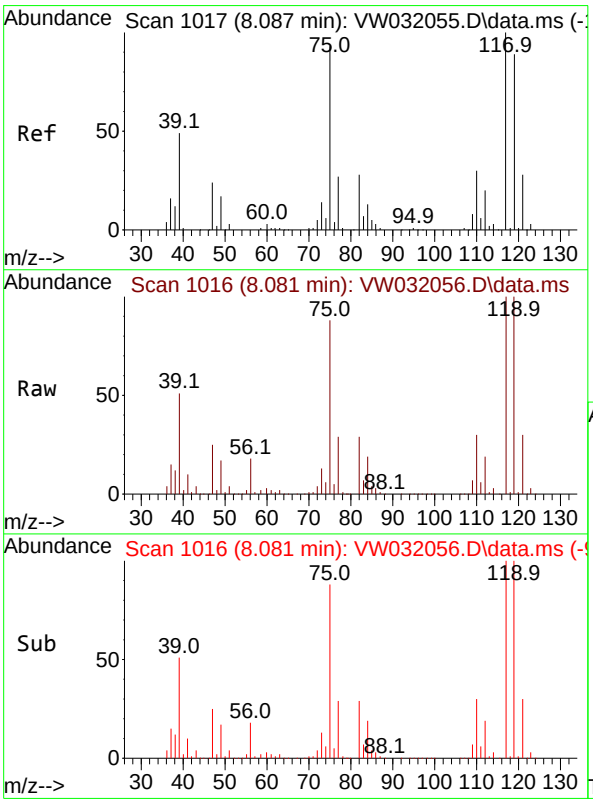
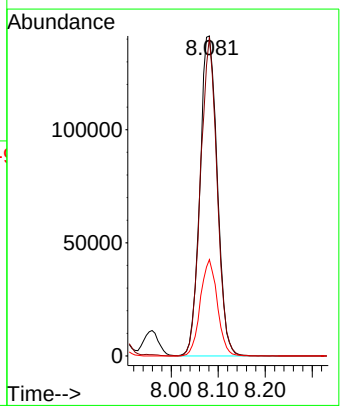
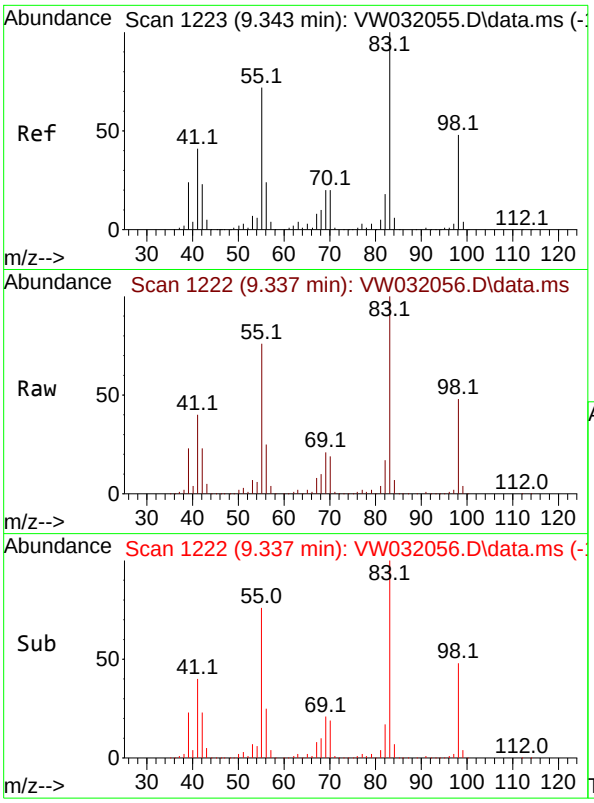


#38
Carbon Tetrachloride
Concen: 97.035 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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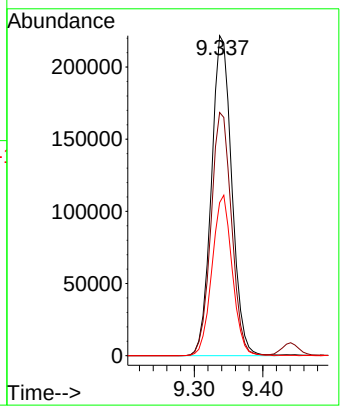
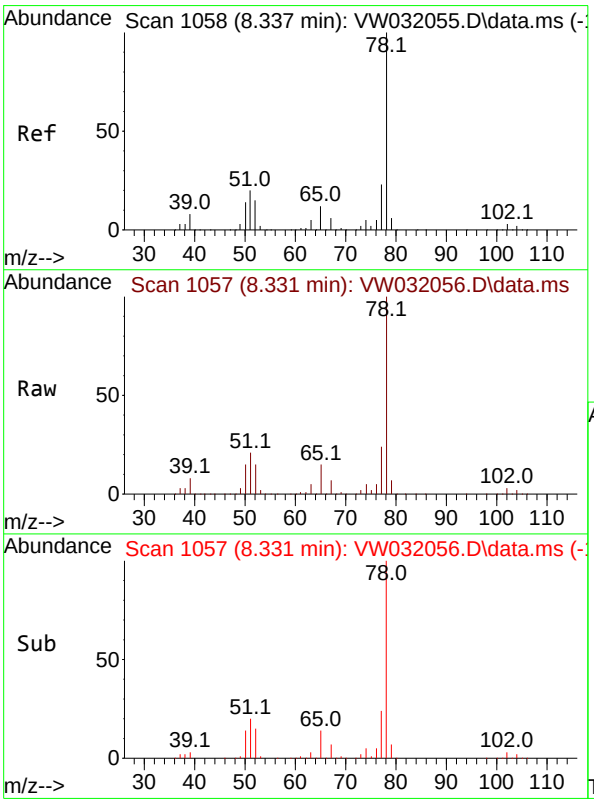
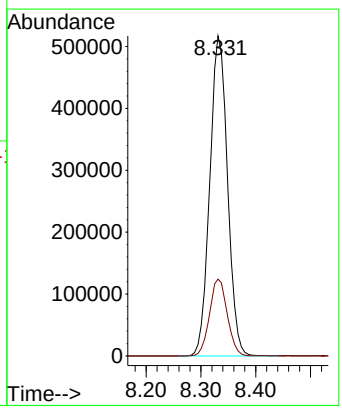


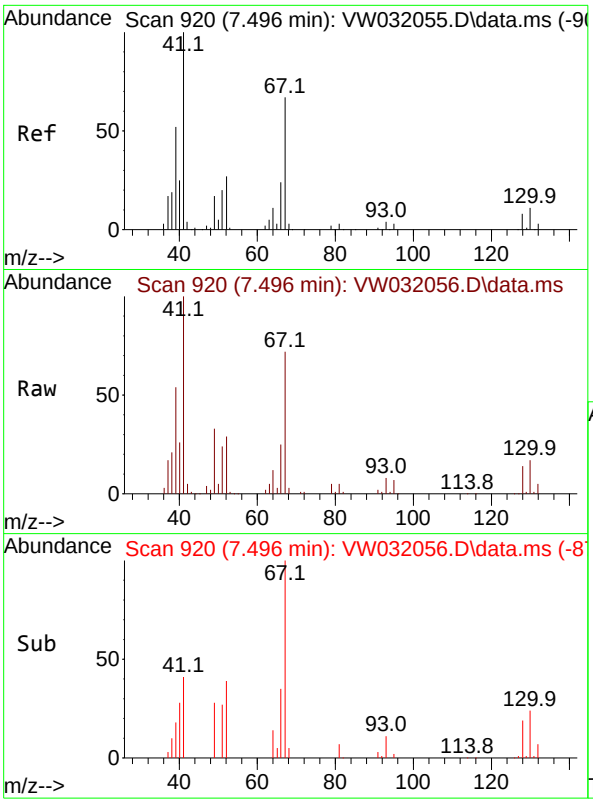


#40
Benzene
Concen: 96.444 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 78 Resp: 1160107

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.4	27.6

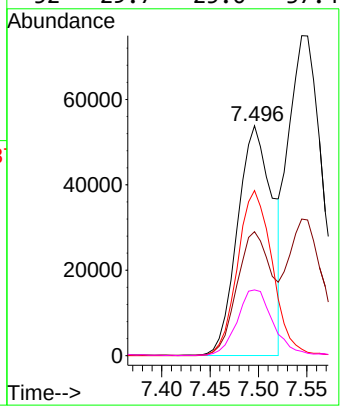




#41
Methacrylonitrile
Concen: 105.048 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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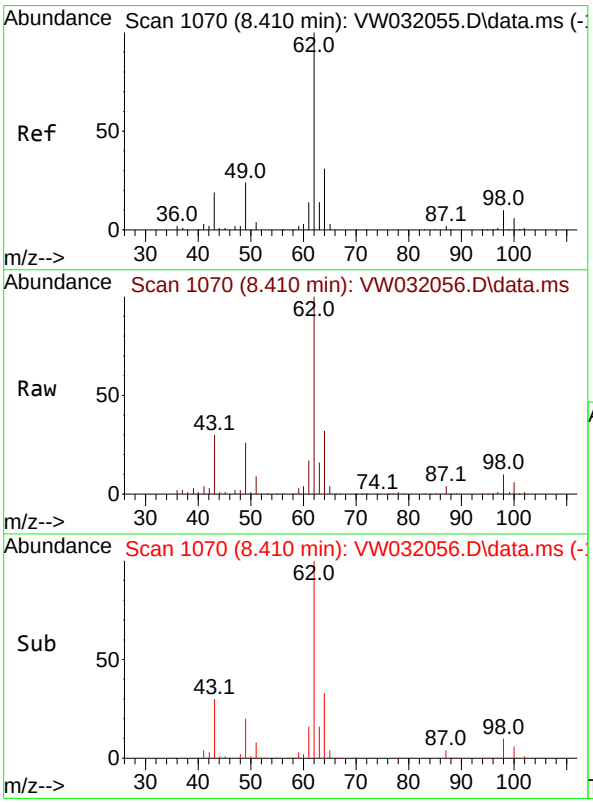
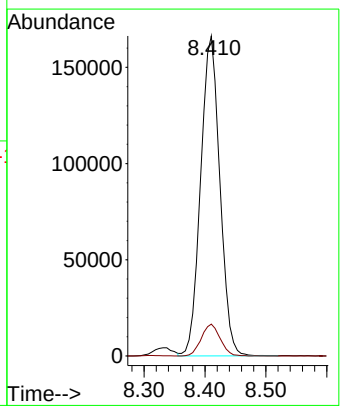
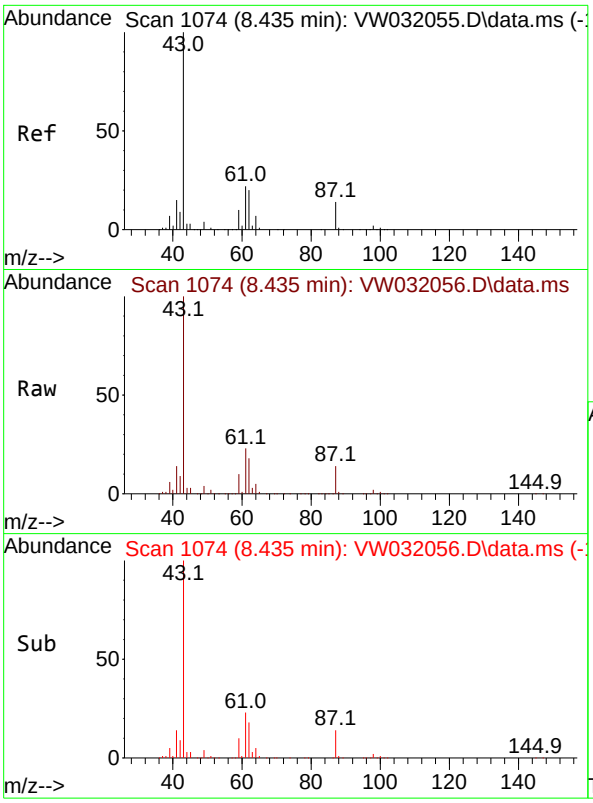


#42
1,2-Dichloroethane
Concen: 94.743 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 364674

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8

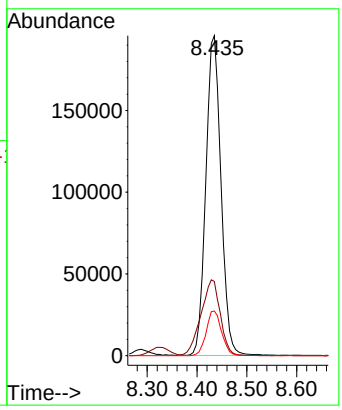




#43
Isopropyl Acetate
Concen: 98.543 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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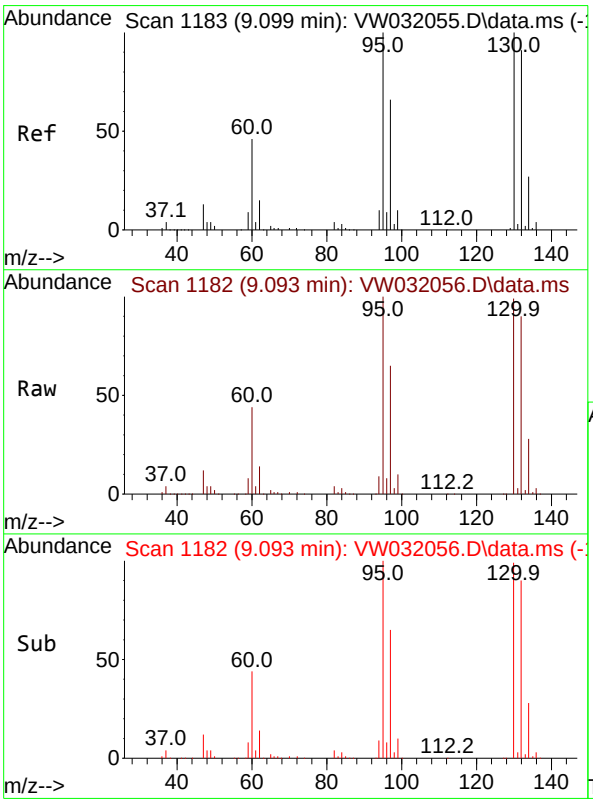
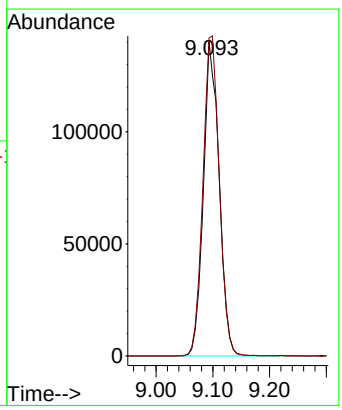
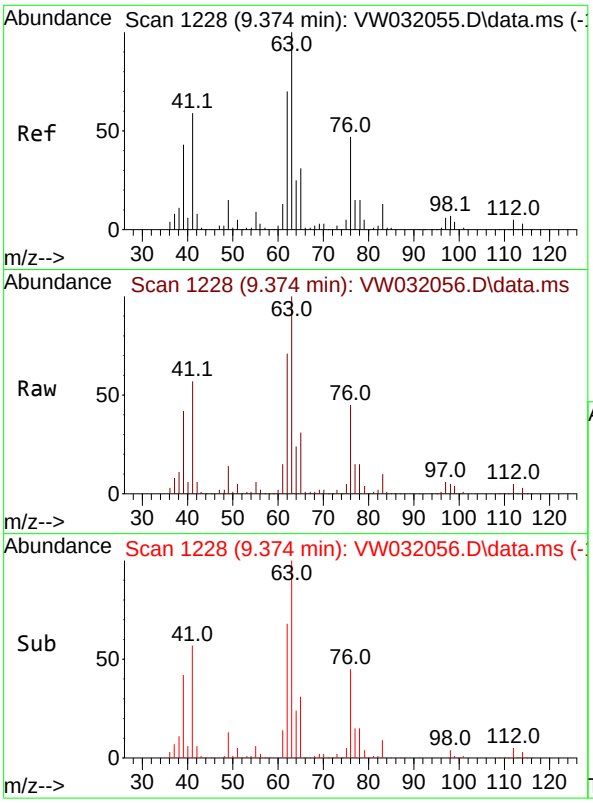


#44
Trichloroethene
Concen: 94.602 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:130 Resp: 270995

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	200.6

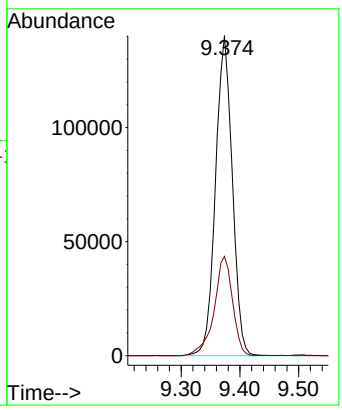




#45
1,2-Dichloropropane
Concen: 95.707 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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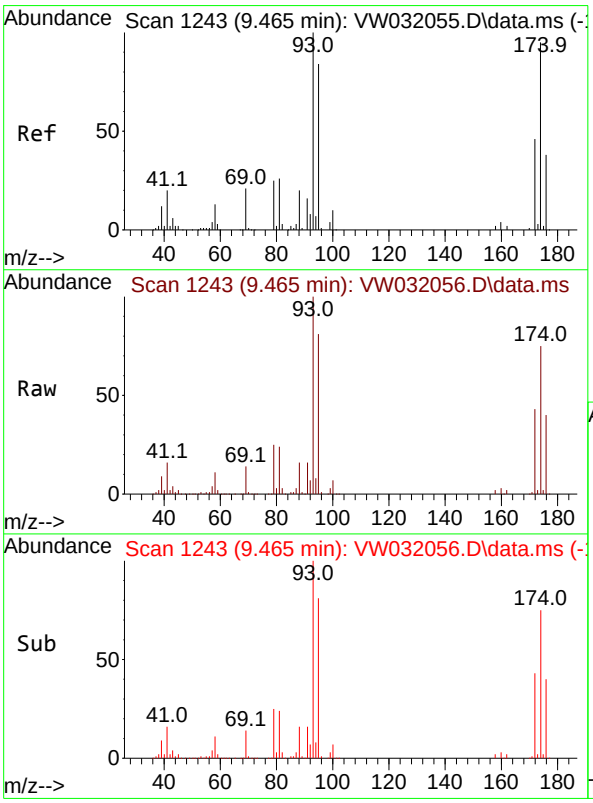
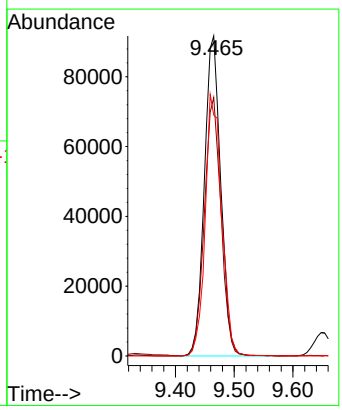
Supervised By :Semsettin Yesilyurt 08/12/2025

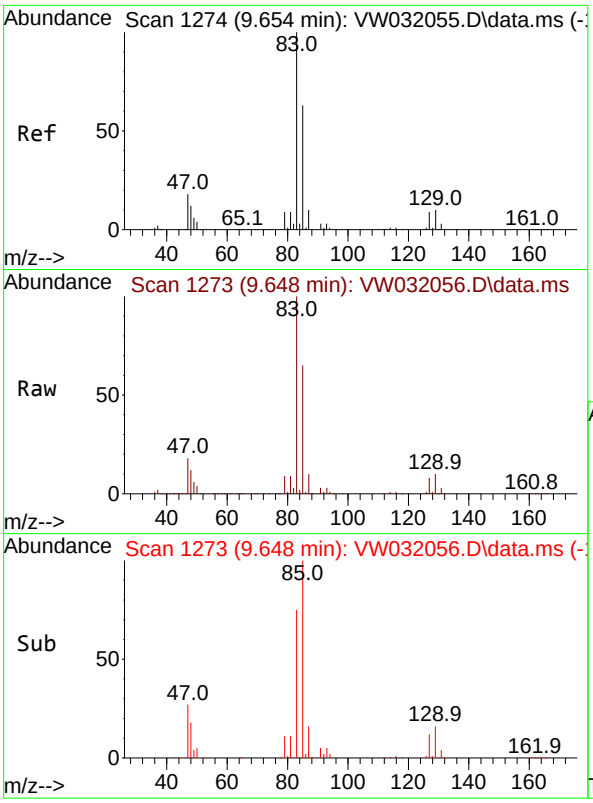


#46
Dibromomethane
Concen: 94.888 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

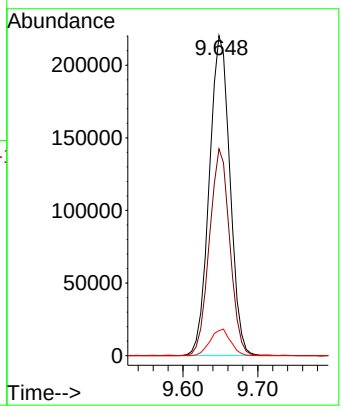




#47
Bromodichloromethane
Concen: 97.867 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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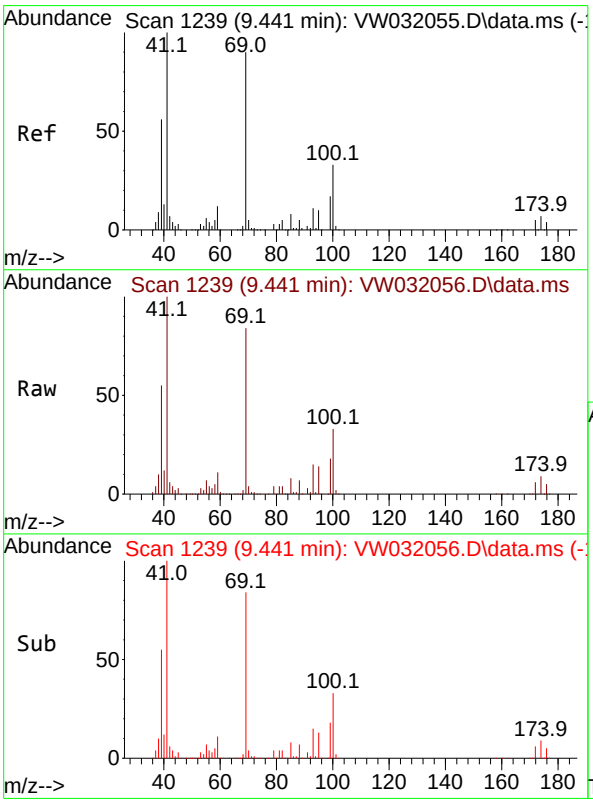
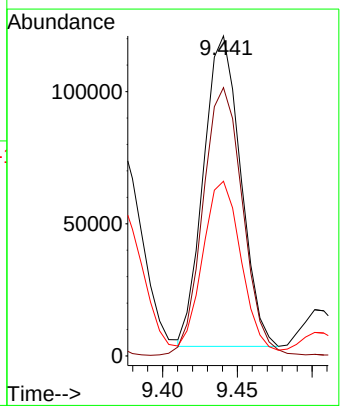
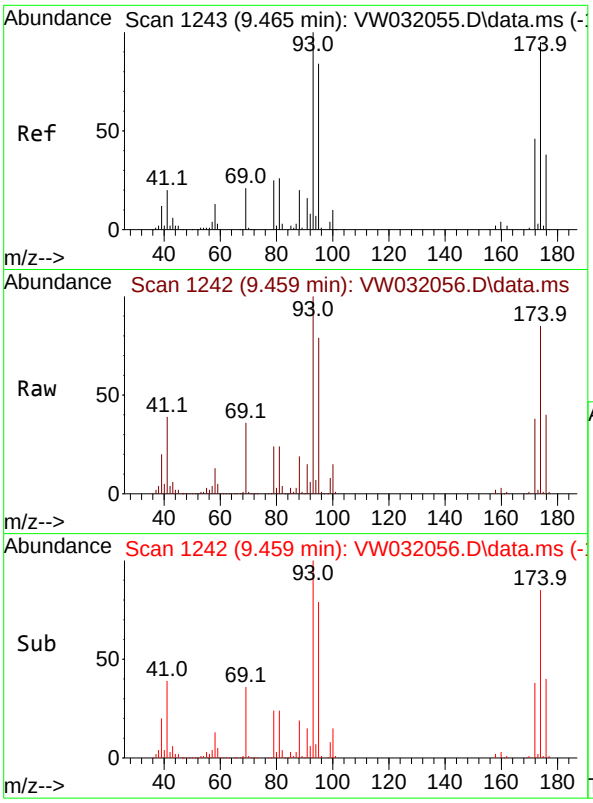


#48
Methyl methacrylate
Concen: 100.098 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

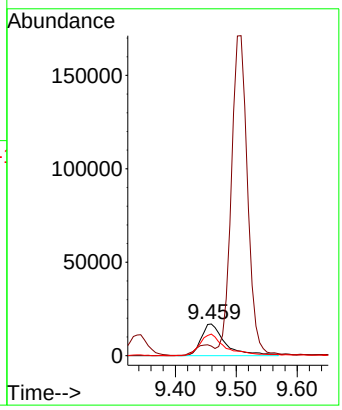




#49
1,4-Dioxane
Concen: 1912.696 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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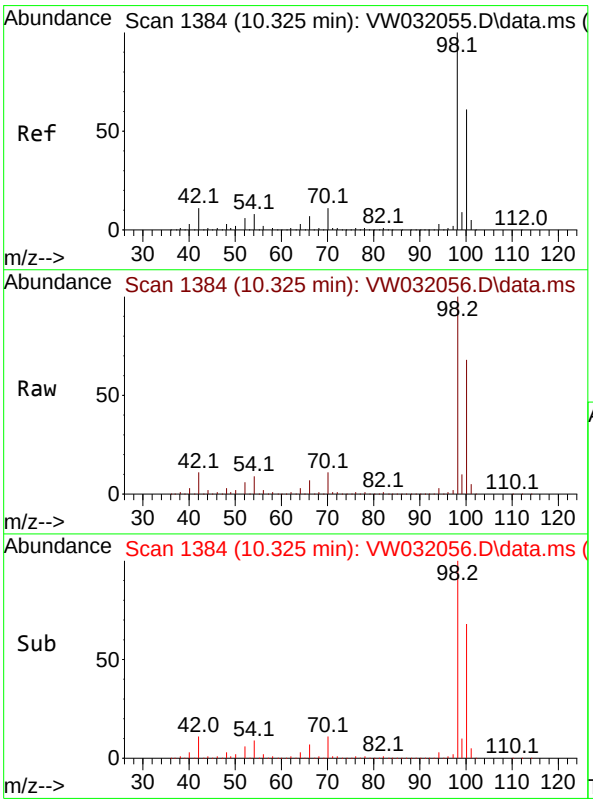
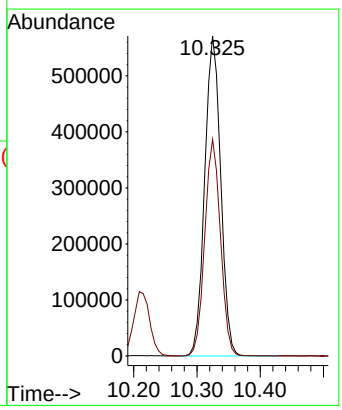
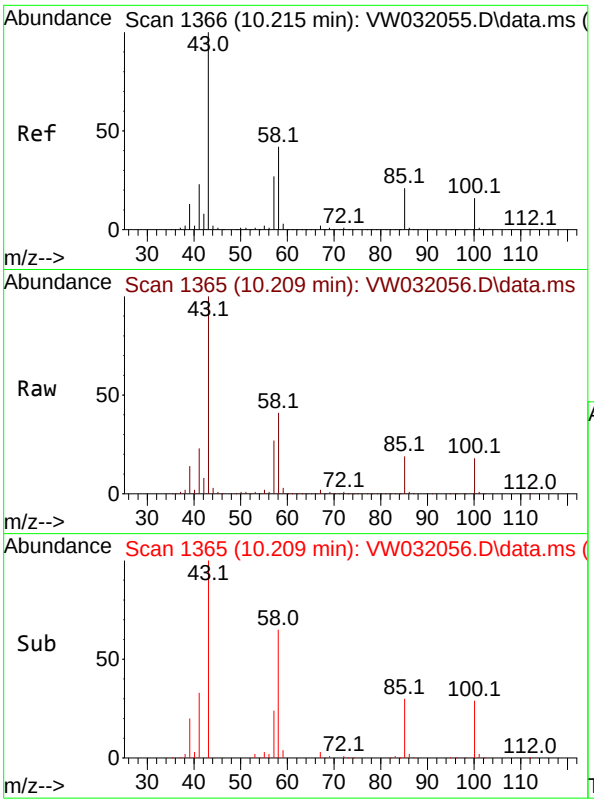


#50
Toluene-d8
Concen: 99.078 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 98 Resp: 1005940

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.1	76.7

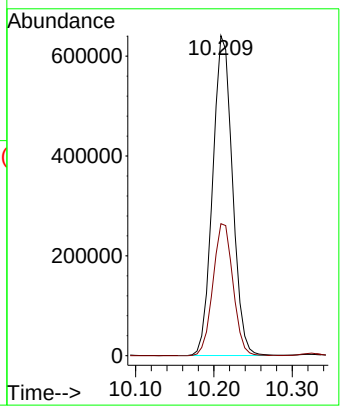




#51
4-Methyl-2-Pentanone
Concen: 476.209 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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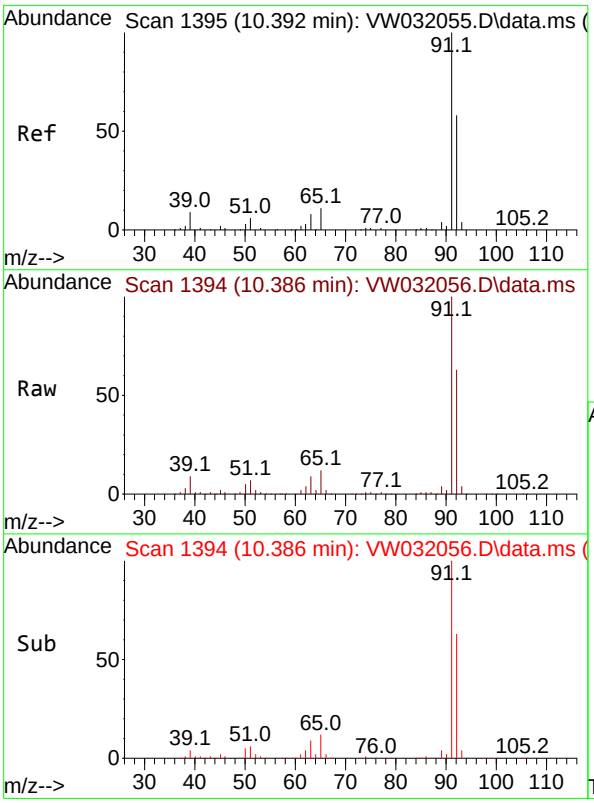
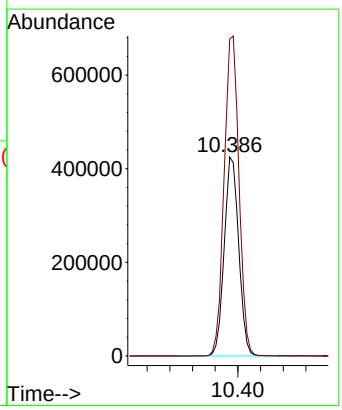
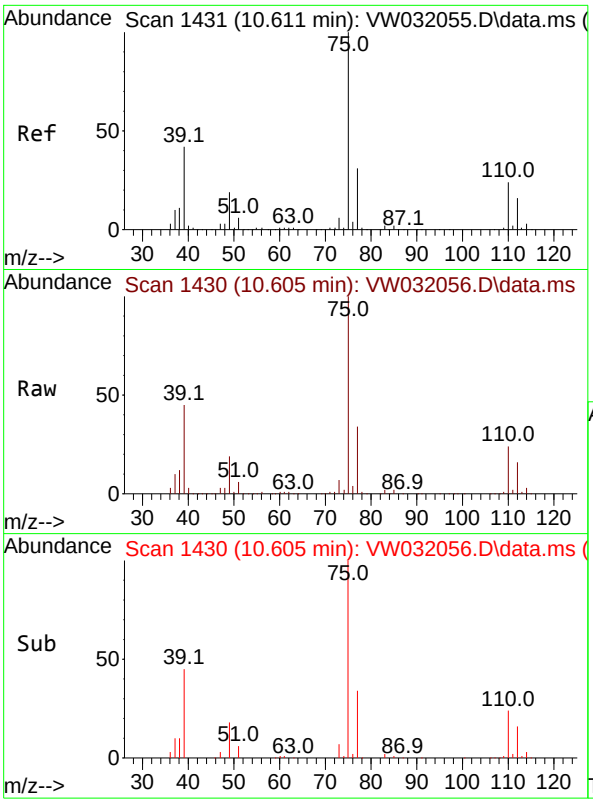


#52
Toluene
Concen: 99.464 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 92 Resp: 753592

Ion	Ratio	Lower	Upper
92	100		
91	165.0	136.3	204.5

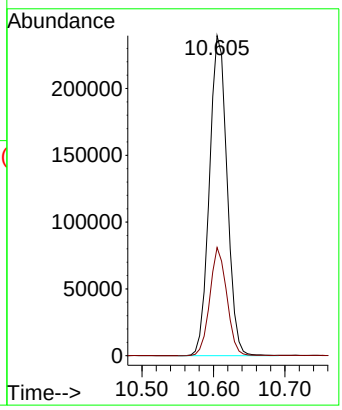




#53
t-1,3-Dichloropropene
Concen: 101.442 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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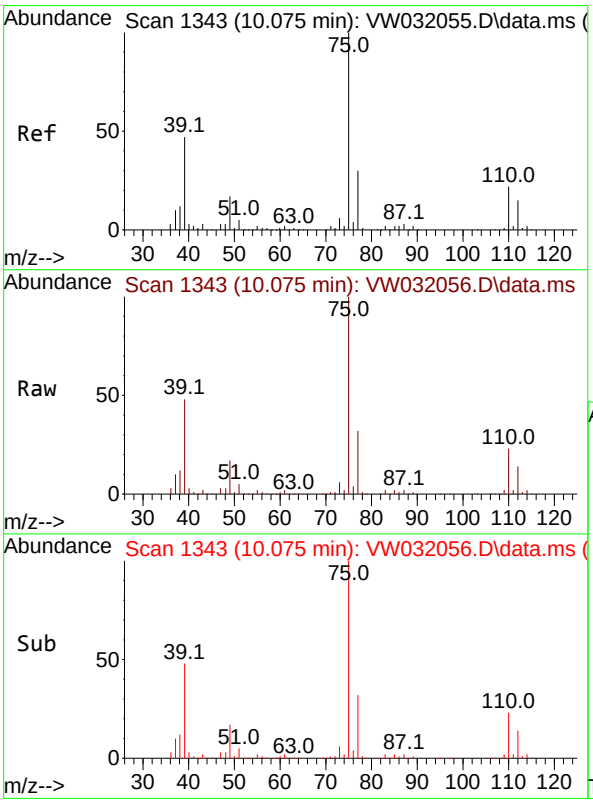
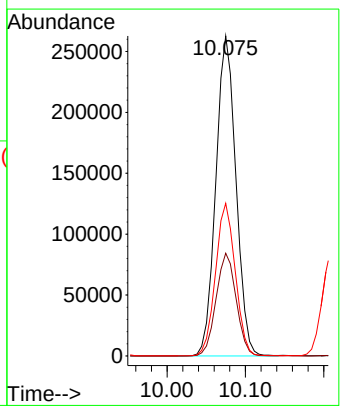
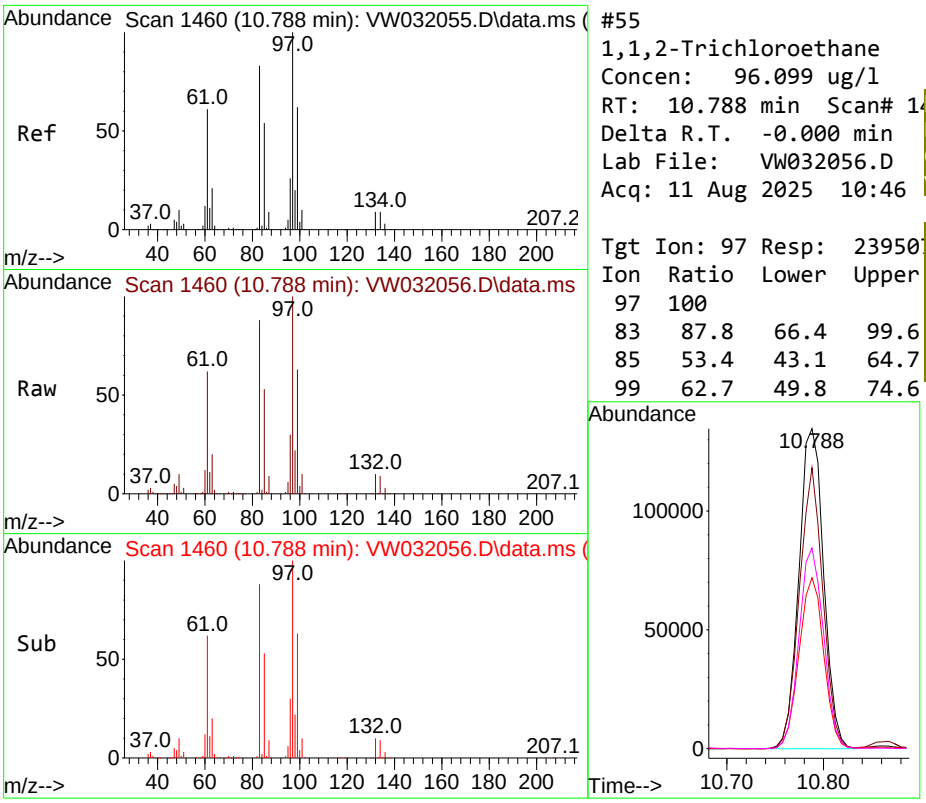


#54
cis-1,3-Dichloropropene
Concen: 102.096 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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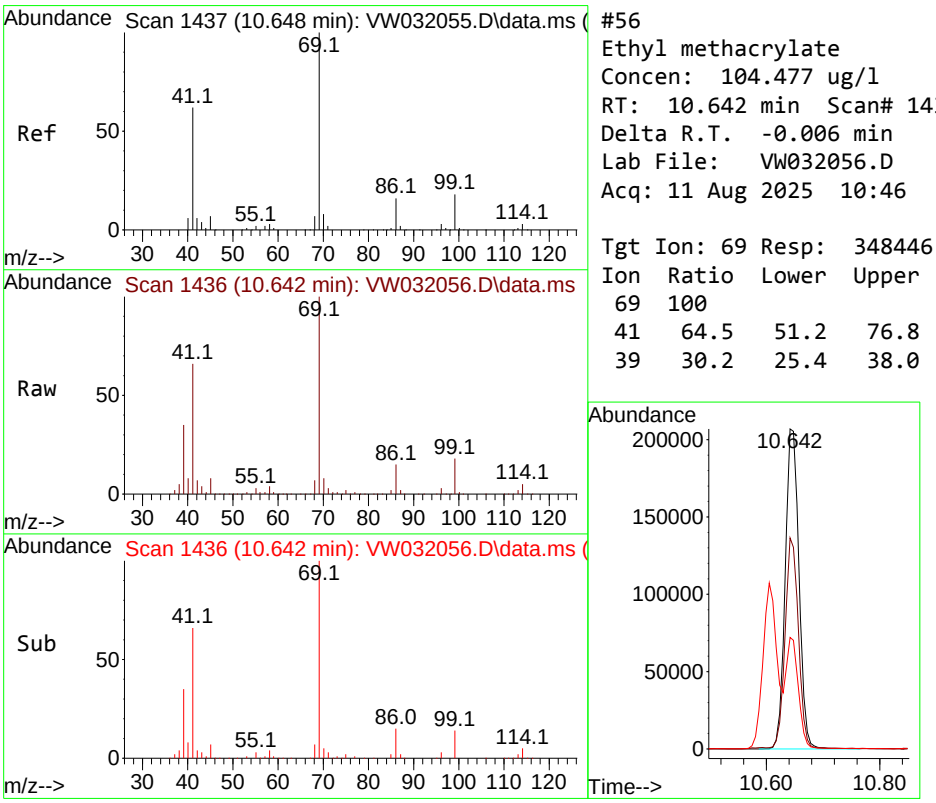
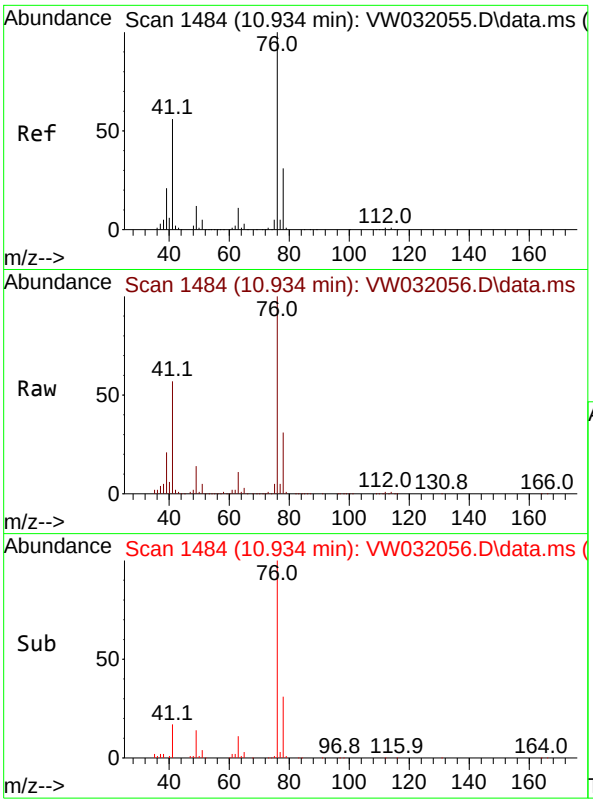


#56
Ethyl methacrylate
Concen: 104.477 ug/l
RT: 10.642 min Scan# 1436
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 69 Resp: 348446

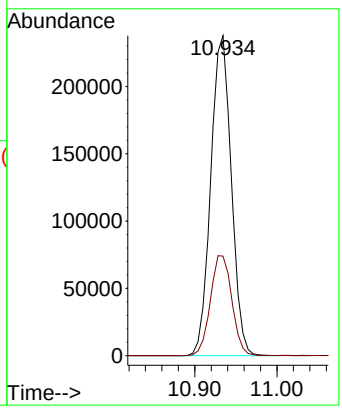
Ion	Ratio	Lower	Upper
69	100		
41	64.5	51.2	76.8
39	30.2	25.4	38.0



#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

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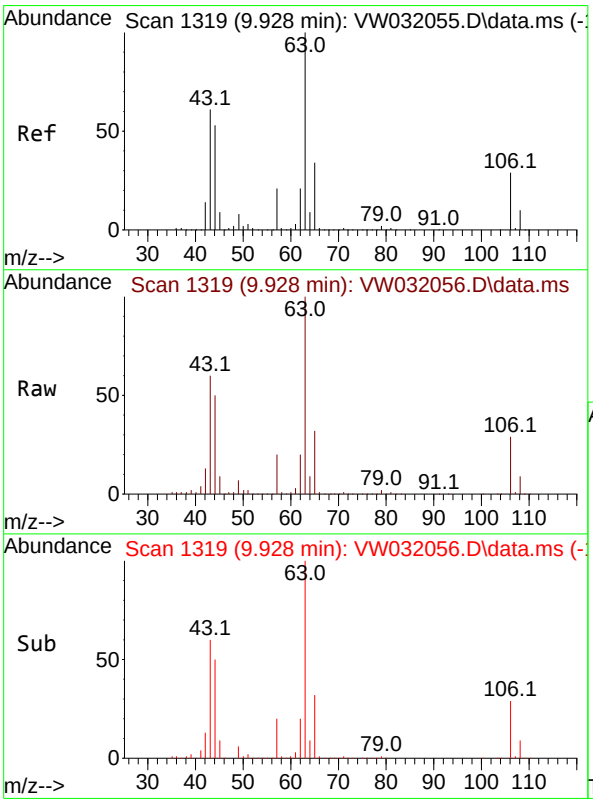
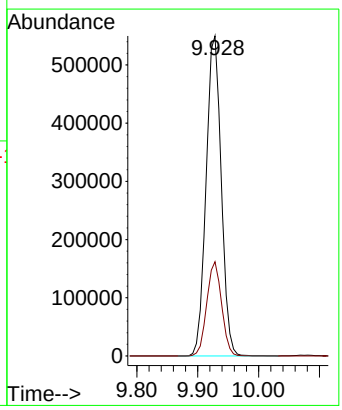
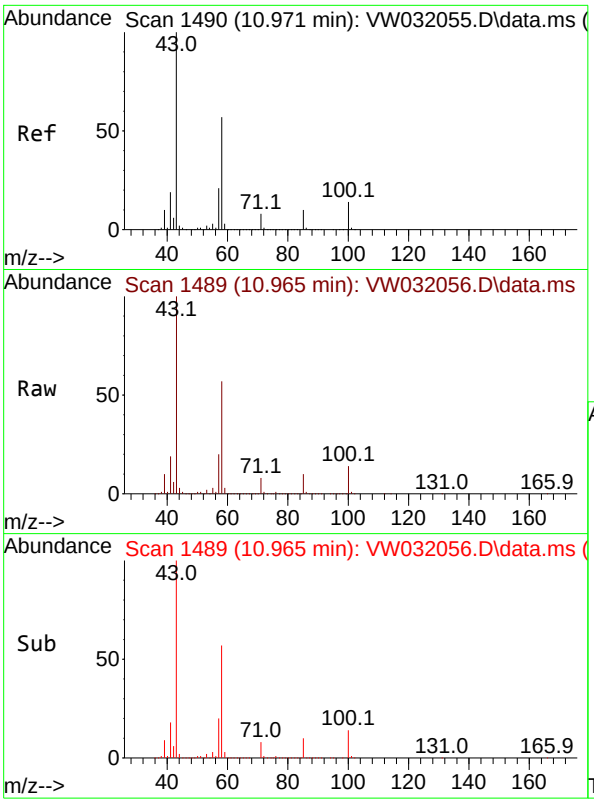


#58
2-Chloroethyl Vinyl ether
Concen: 513.956 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 948129

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.5	35.3

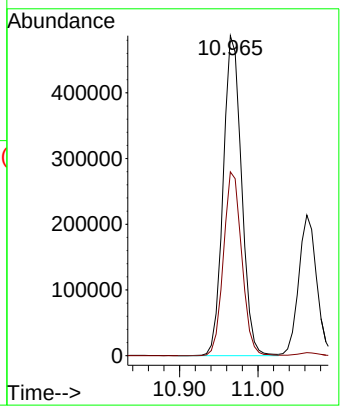




#59
2-Hexanone
Concen: 484.283 ug/l
RT: 10.965 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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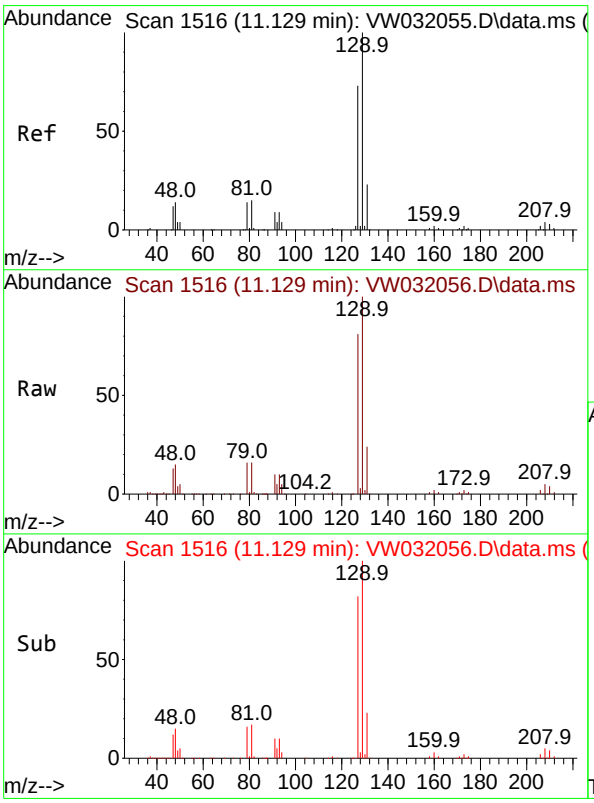
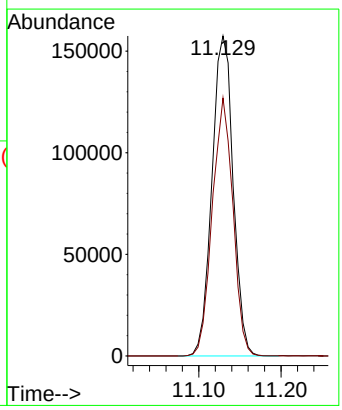
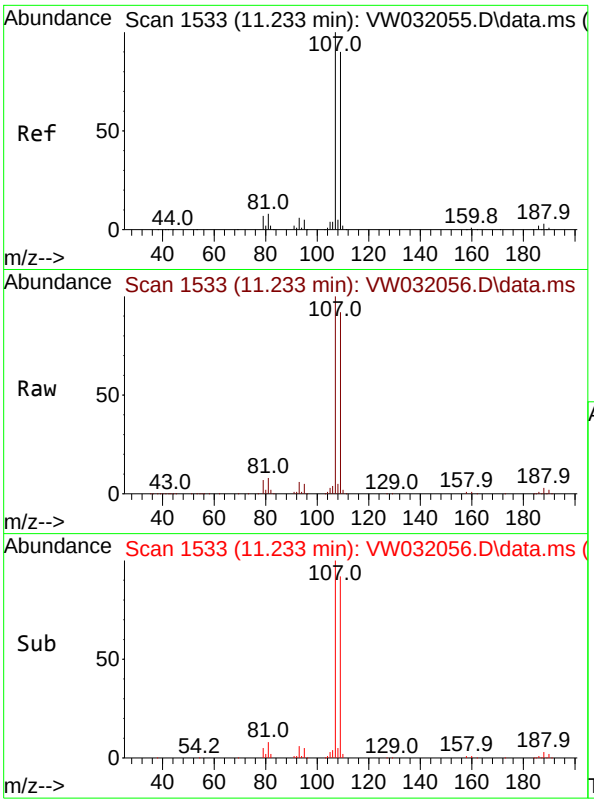


#60
Dibromochloromethane
Concen: 99.074 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:129 Resp: 282060

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.0	116.9

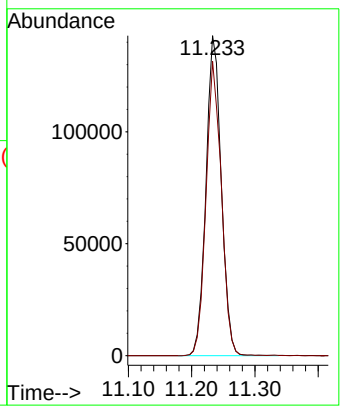




#61
1,2-Dibromoethane
Concen: 99.317 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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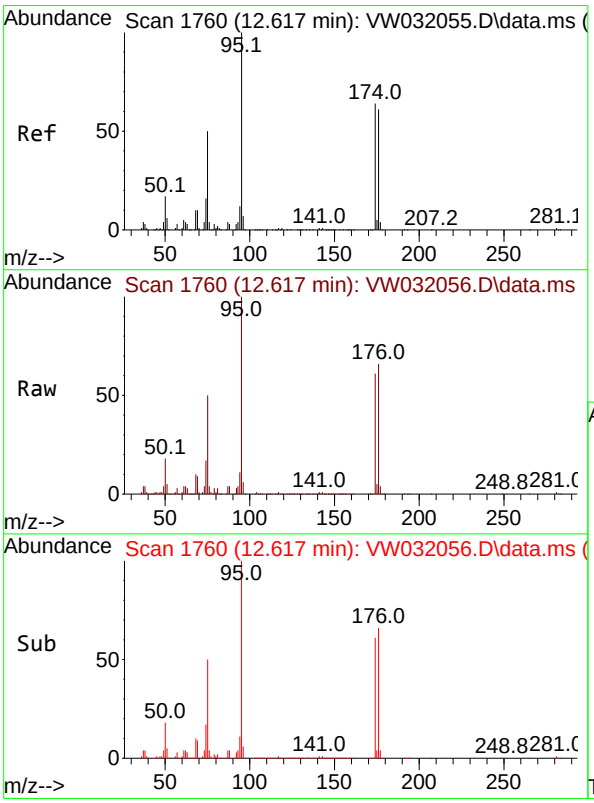
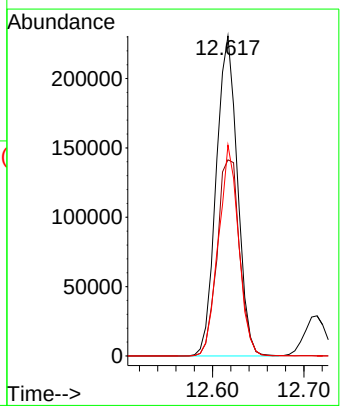
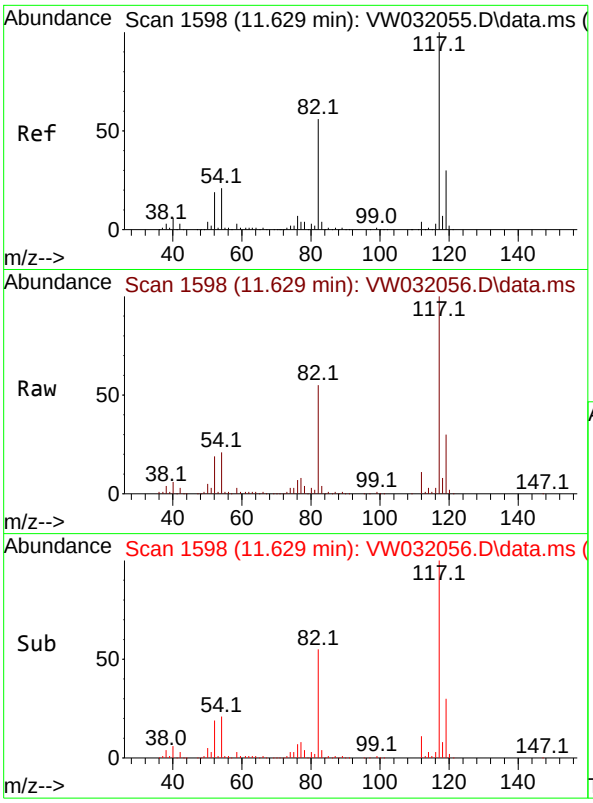


#62
4-Bromofluorobenzene
Concen: 99.536 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

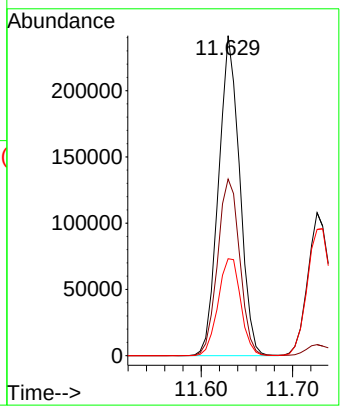




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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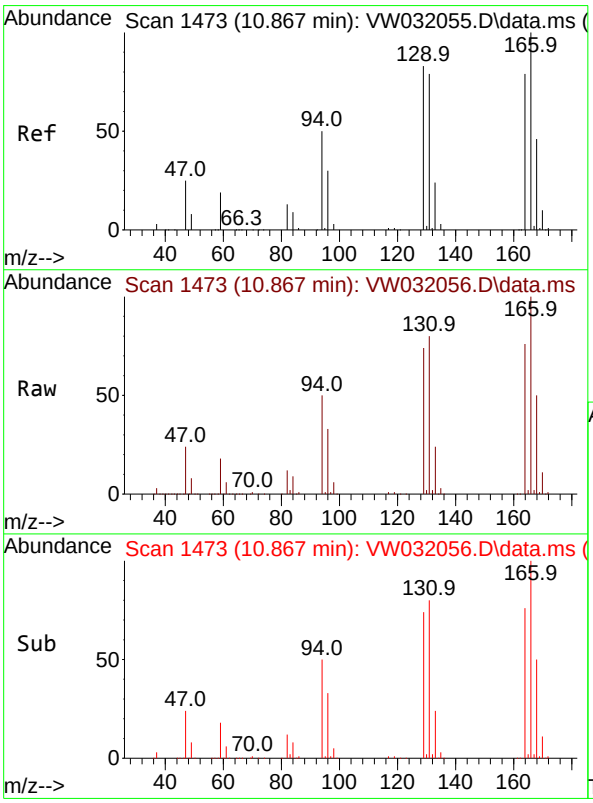
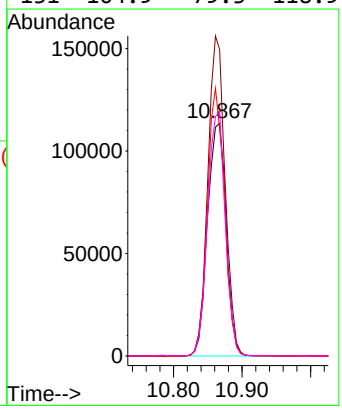
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

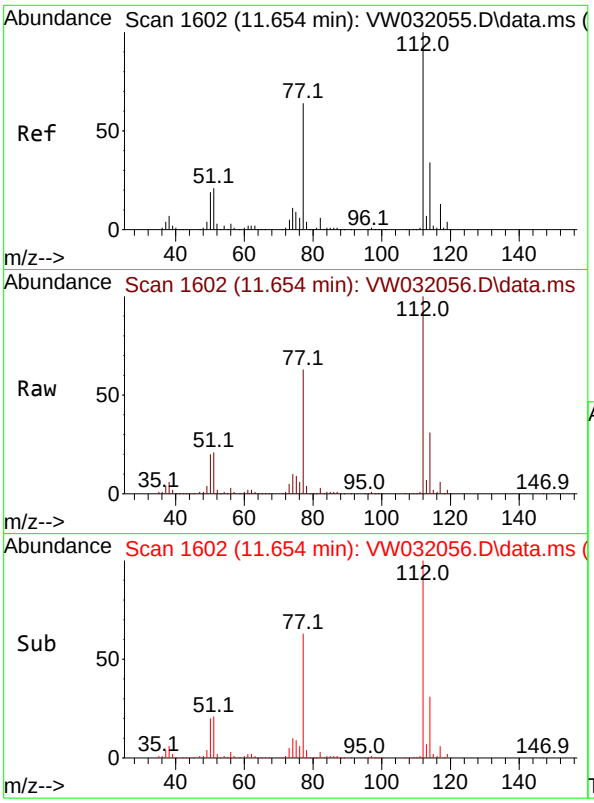


#64
Tetrachloroethene
Concen: 95.247 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

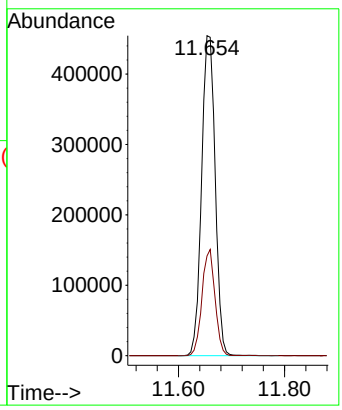




#65
Chlorobenzene
Concen: 95.819 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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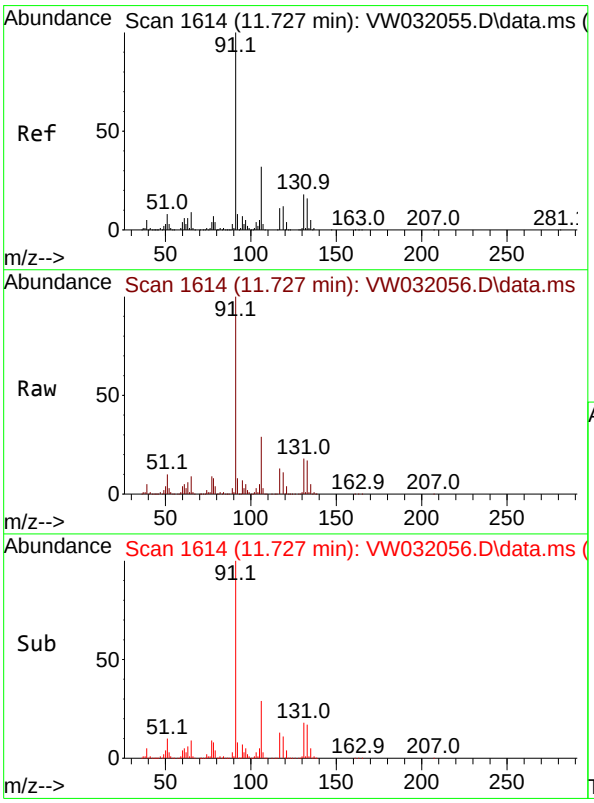
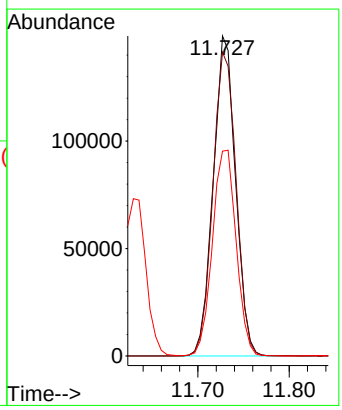
Supervised By :Semsettin Yesilyurt 08/12/2025

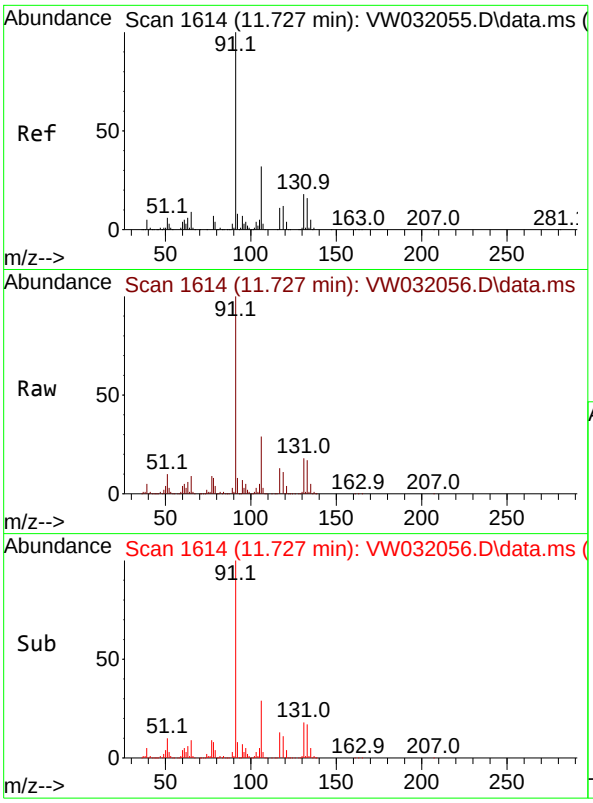


#66
1,1,1,2-Tetrachloroethane
Concen: 96.197 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

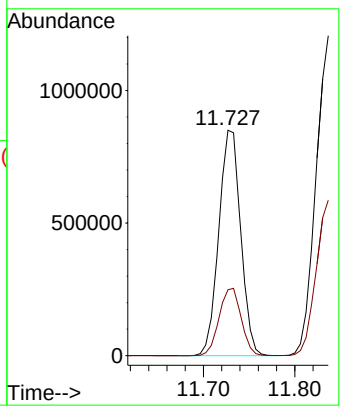




#67
Ethyl Benzene
Concen: 99.243 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 141861

Ion	Ratio	Lower	Upper
91	100		
106	29.3	25.4	38.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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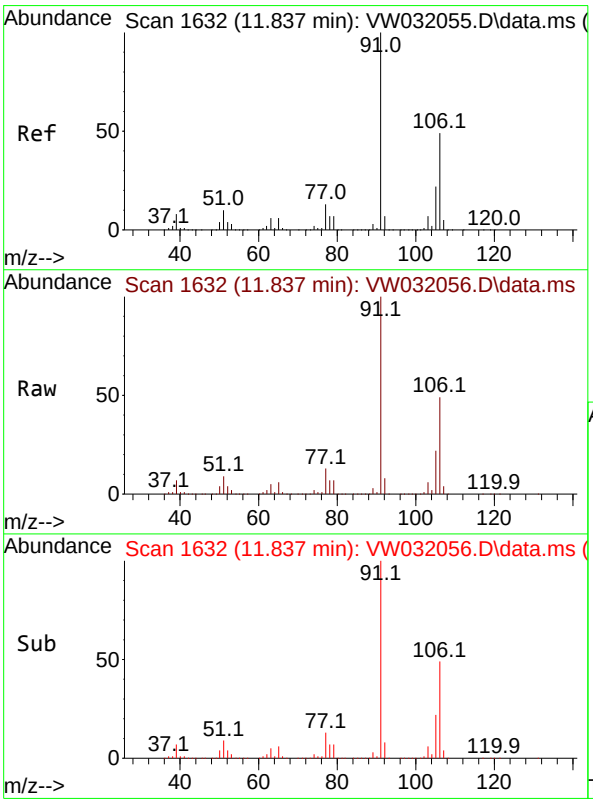
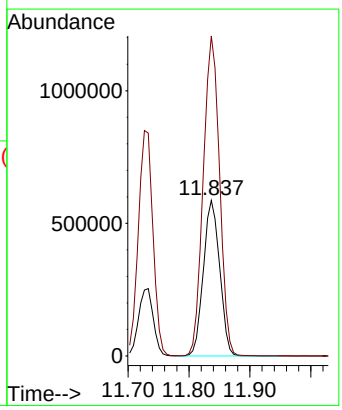
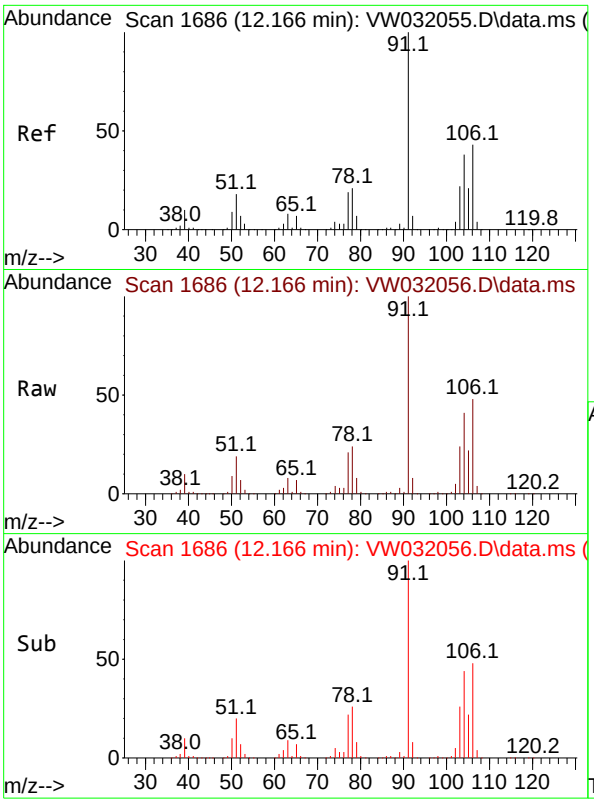


#68
m/p-Xylenes
Concen: 197.459 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 1089143

Ion	Ratio	Lower	Upper
106	100		
91	206.7	162.2	243.2

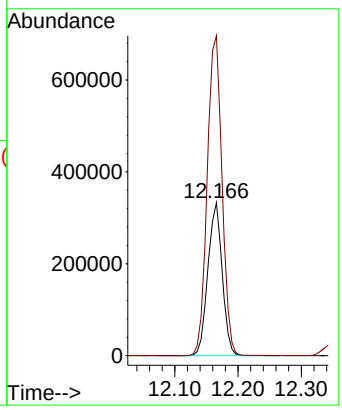




#69
o-Xylene
Concen: 102.652 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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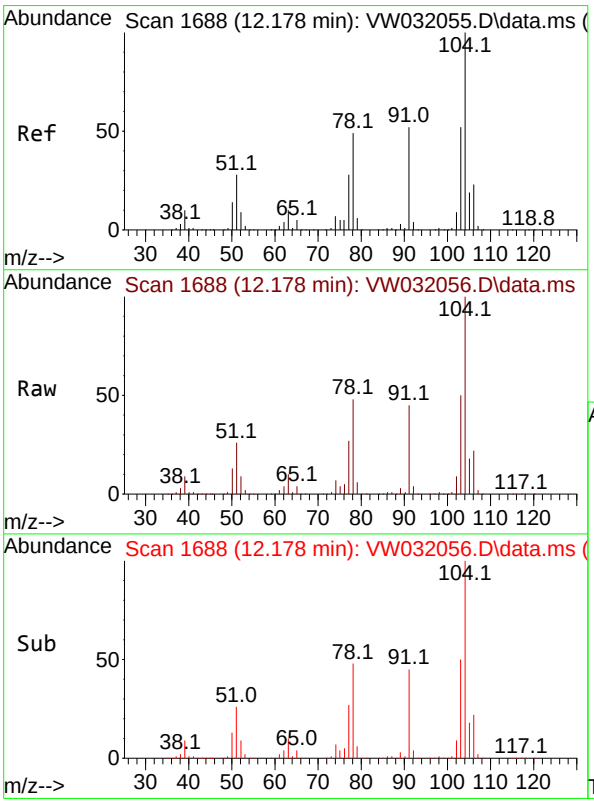
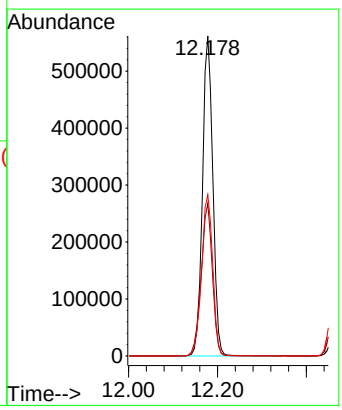
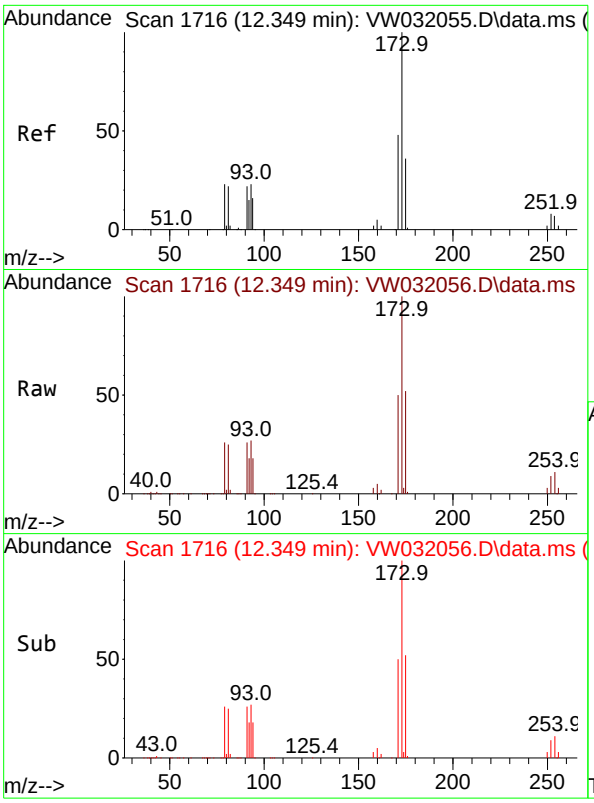


#70
Styrene
Concen: 101.158 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

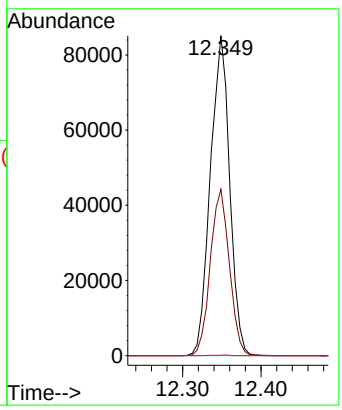




#71
Bromoform
Concen: 96.794 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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 :
VSTDICC100

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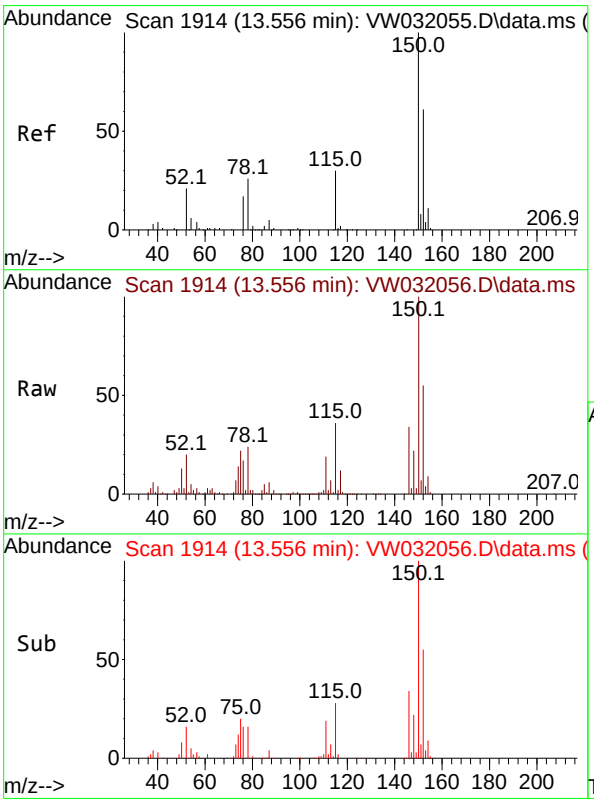
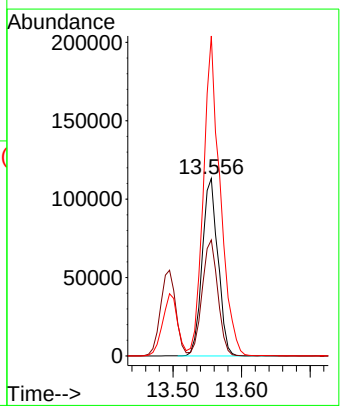
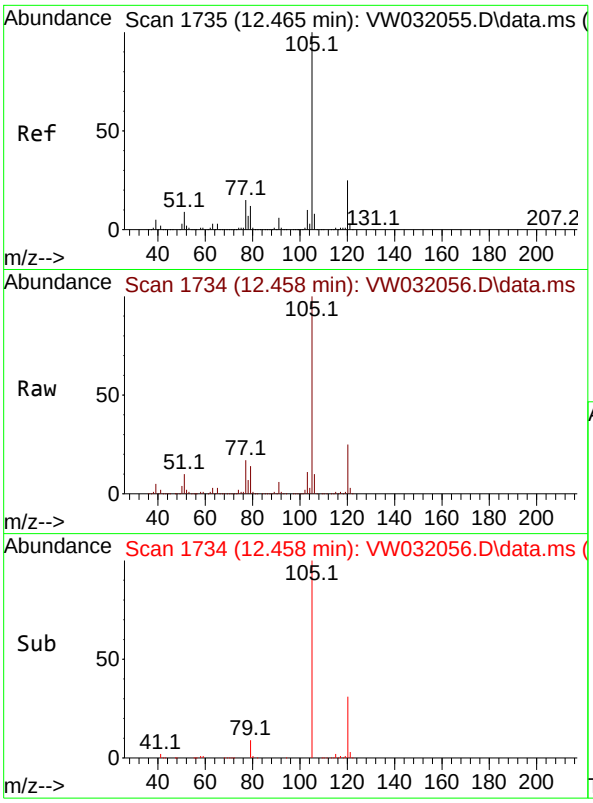


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

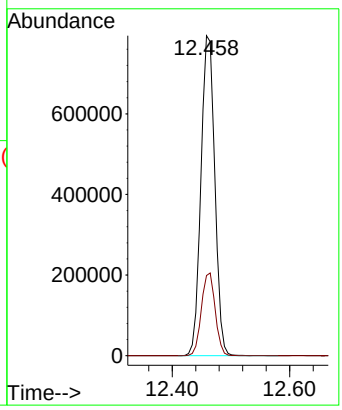




#73
Isopropylbenzene
Concen: 102.870 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 129953

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

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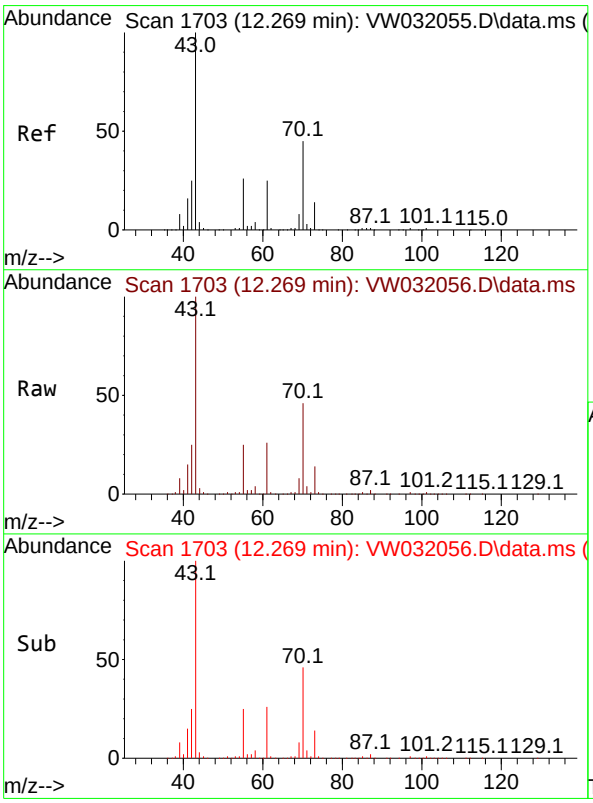
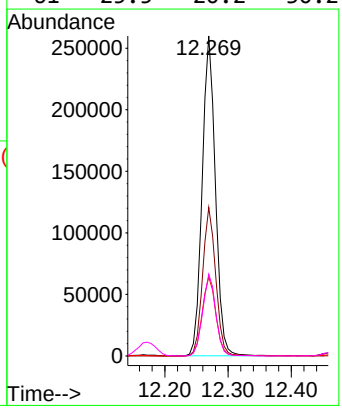
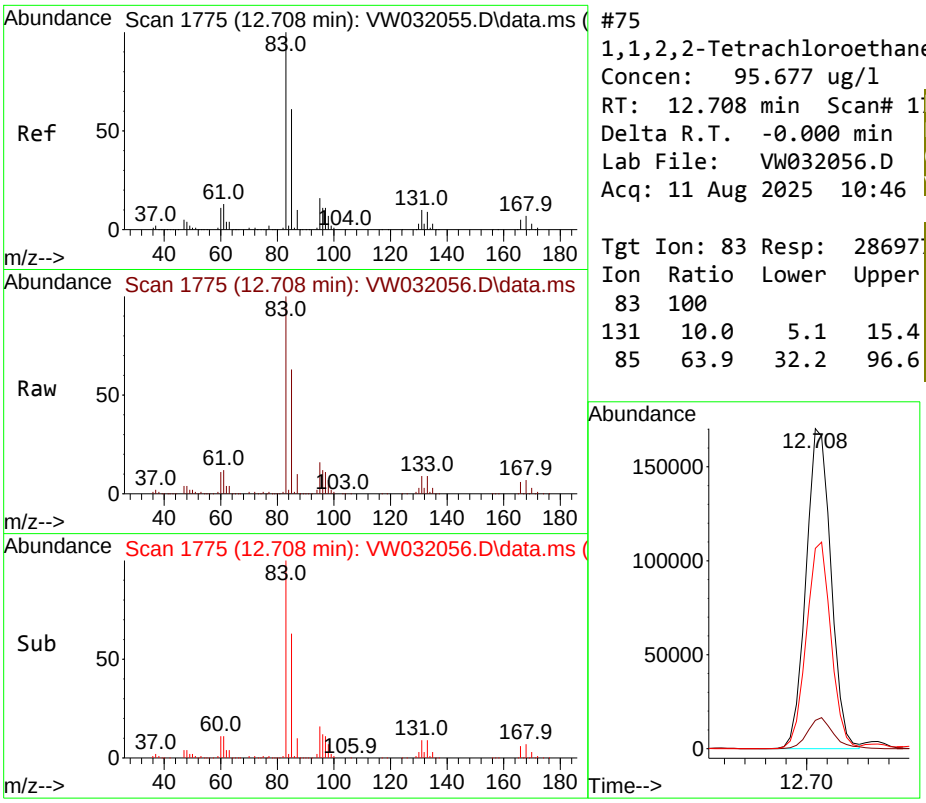


#74
N-amyl acetate
Concen: 104.494 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

Manual Integrations
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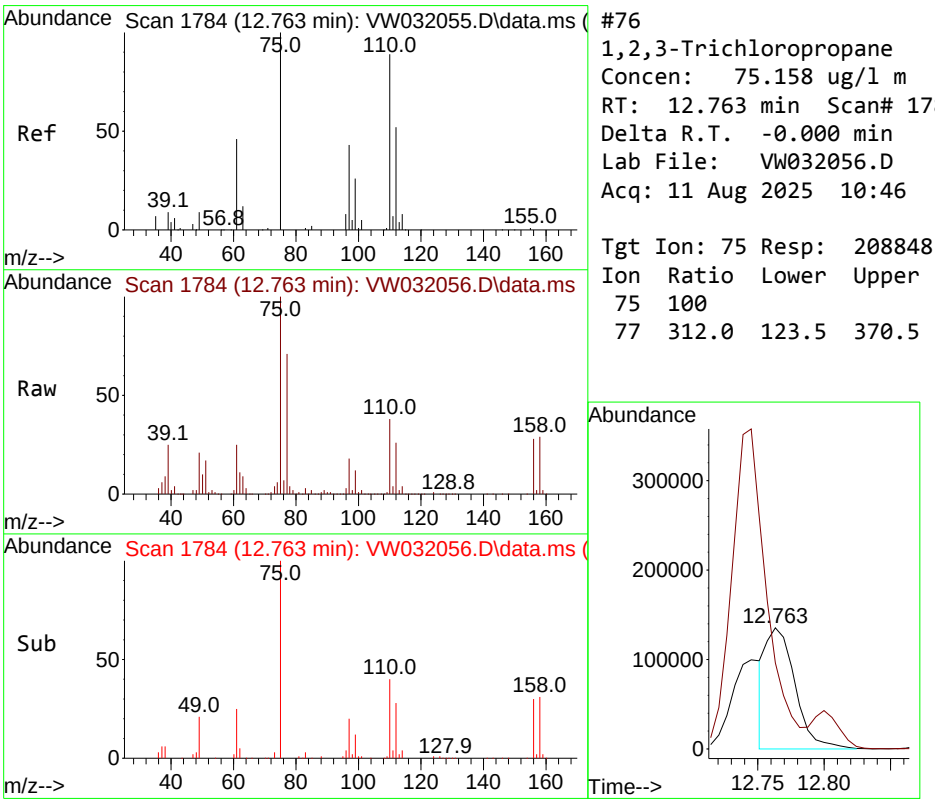
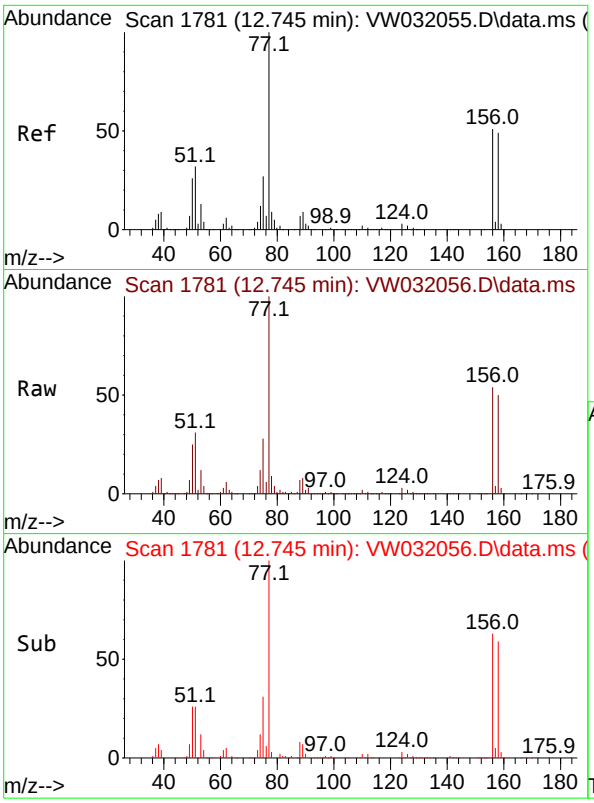


#76
1,2,3-Trichloropropane
Concen: 75.158 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 208848

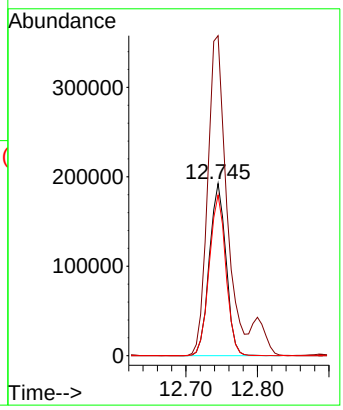
Ion	Ratio	Lower	Upper
75	100		
77	312.0	123.5	370.5



#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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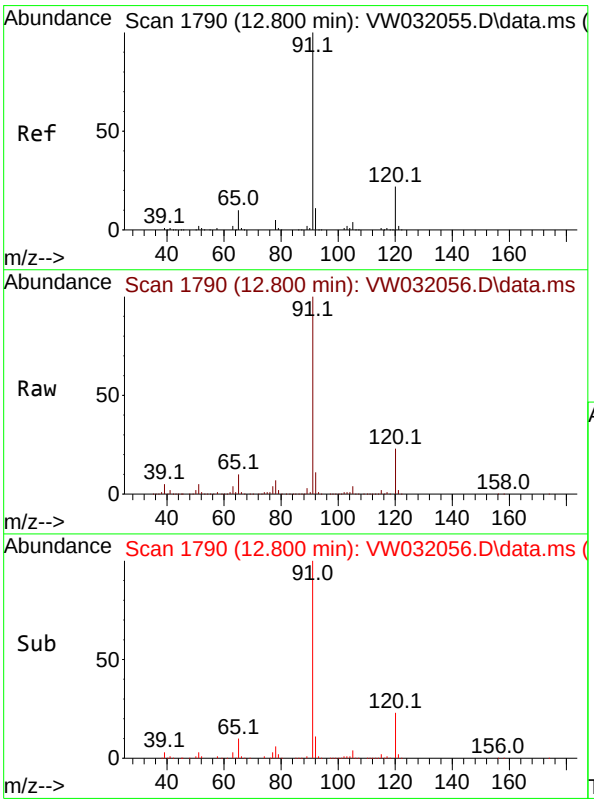
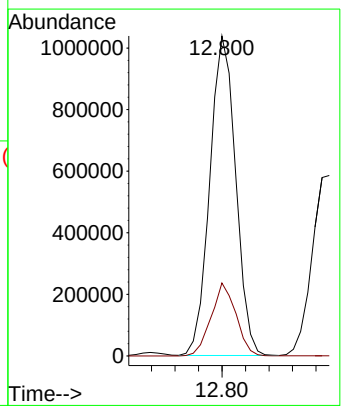
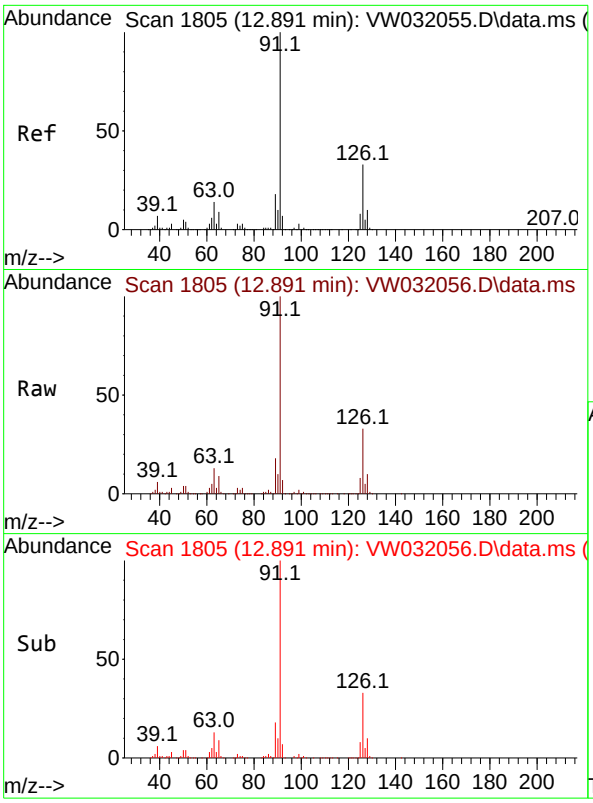


#78
n-propylbenzene
Concen: 102.177 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1589147

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3

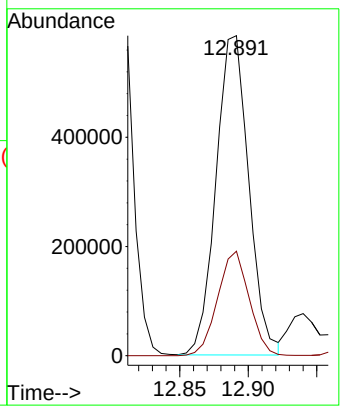




#79
2-Chlorotoluene
Concen: 101.505 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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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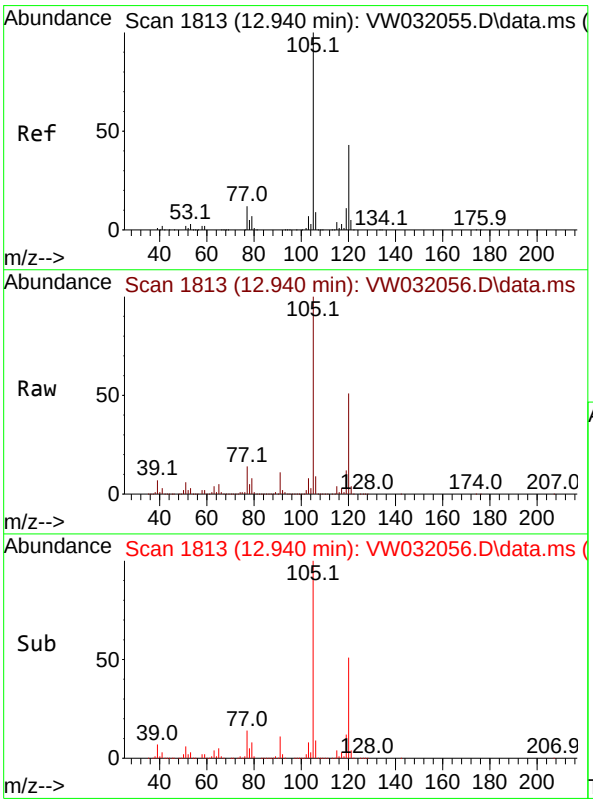
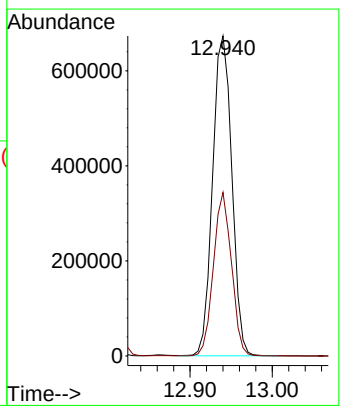
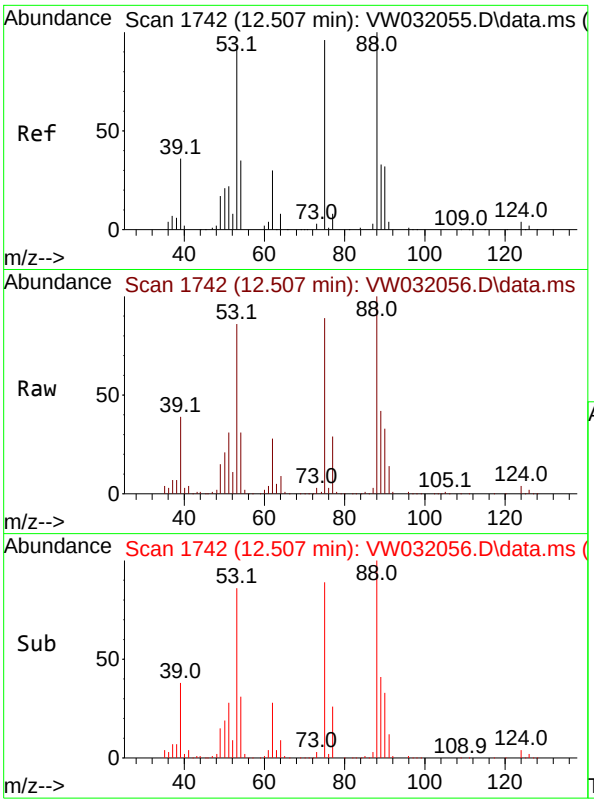


#80
1,3,5-Trimethylbenzene
Concen: 101.912 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

Manual Integrations
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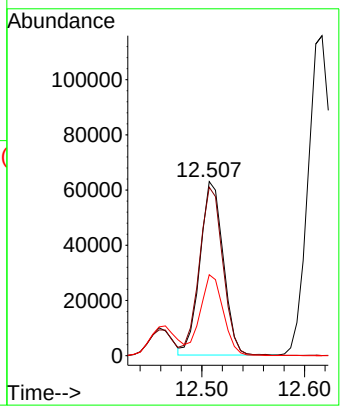
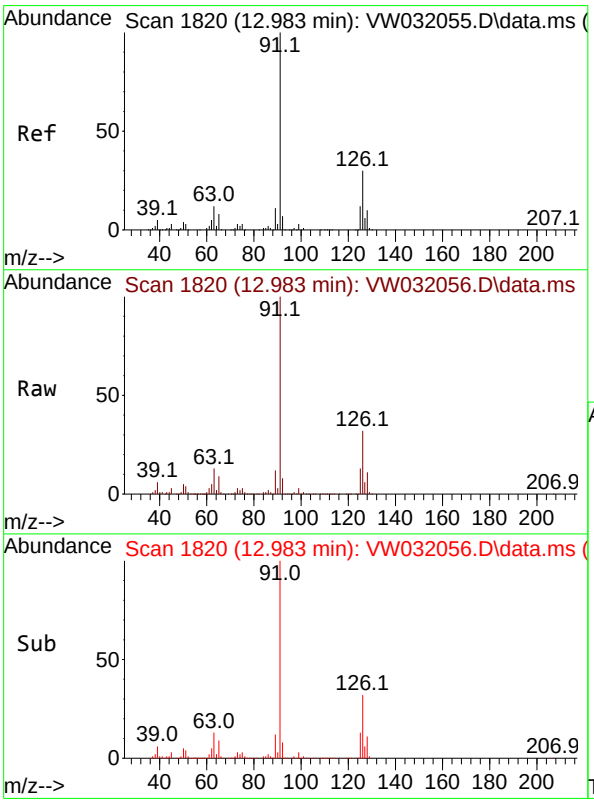
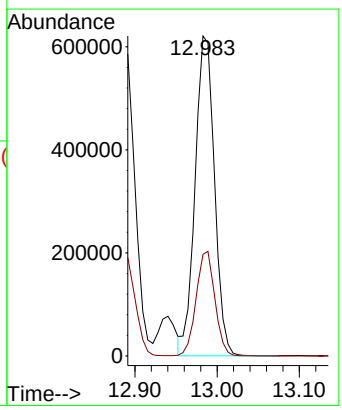


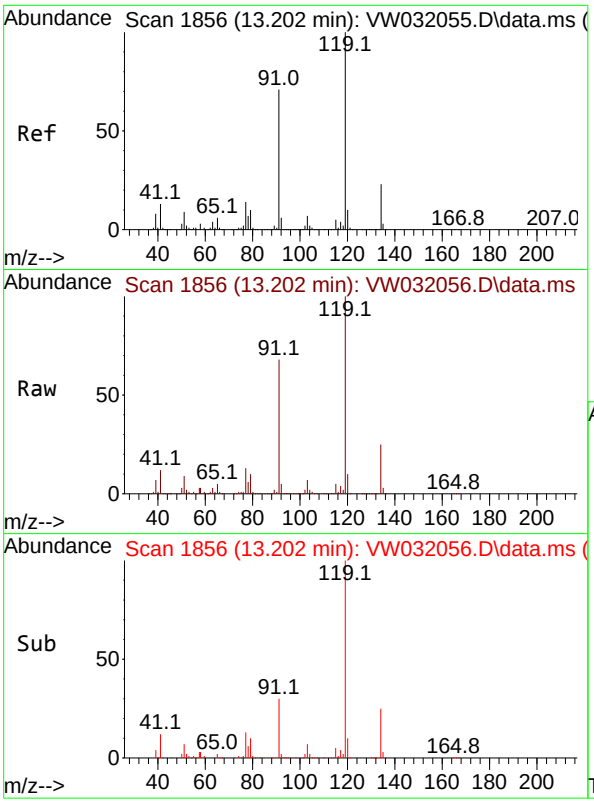


#82
4-Chlorotoluene
Concen: 99.412 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1013836

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.5	46.5

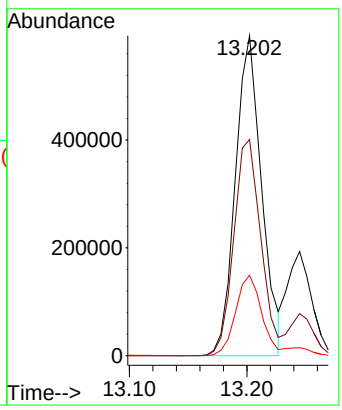




#83
tert-Butylbenzene
Concen: 103.591 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:119 Resp: 92204

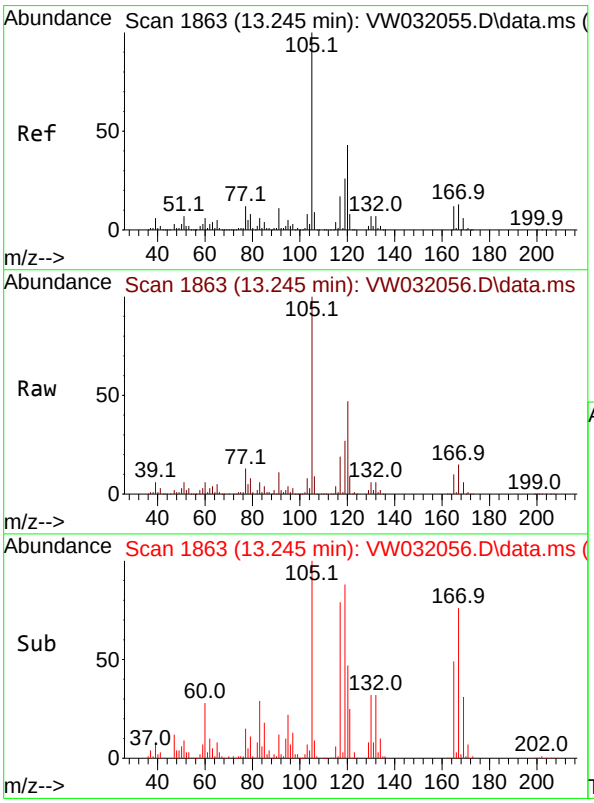
Ion	Ratio	Lower	Upper
119	100		
91	69.4	35.3	105.9
134	25.3	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

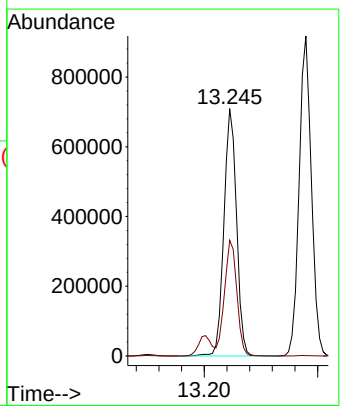
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

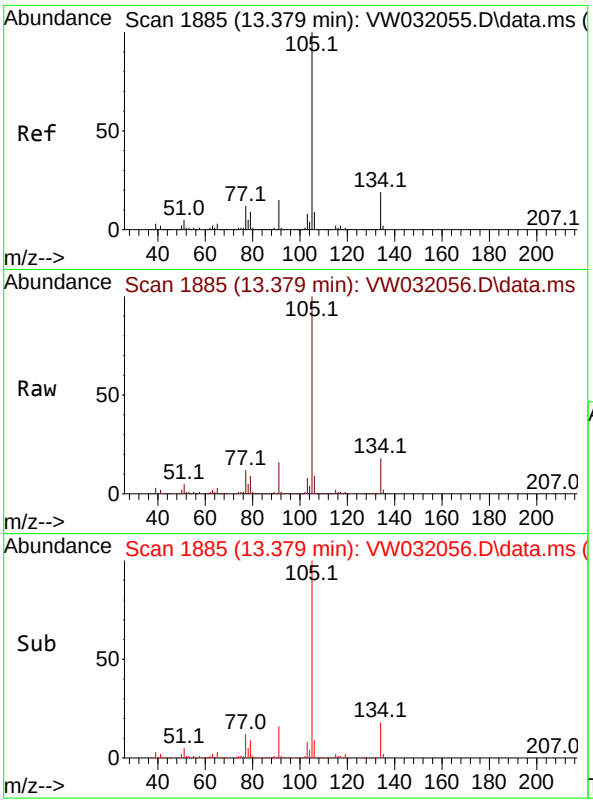


#84
1,2,4-Trimethylbenzene
Concen: 99.778 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

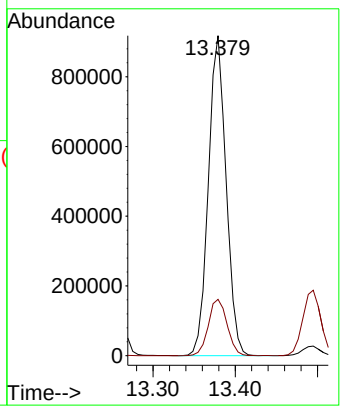
Tgt Ion:105 Resp: 137232

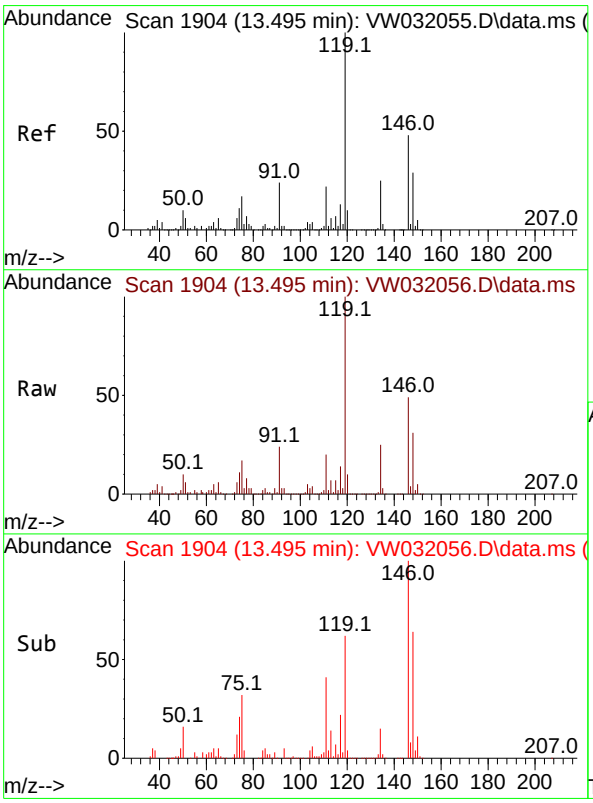
Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

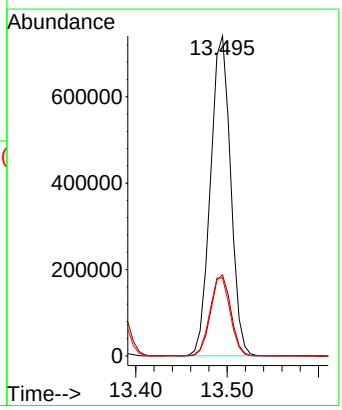


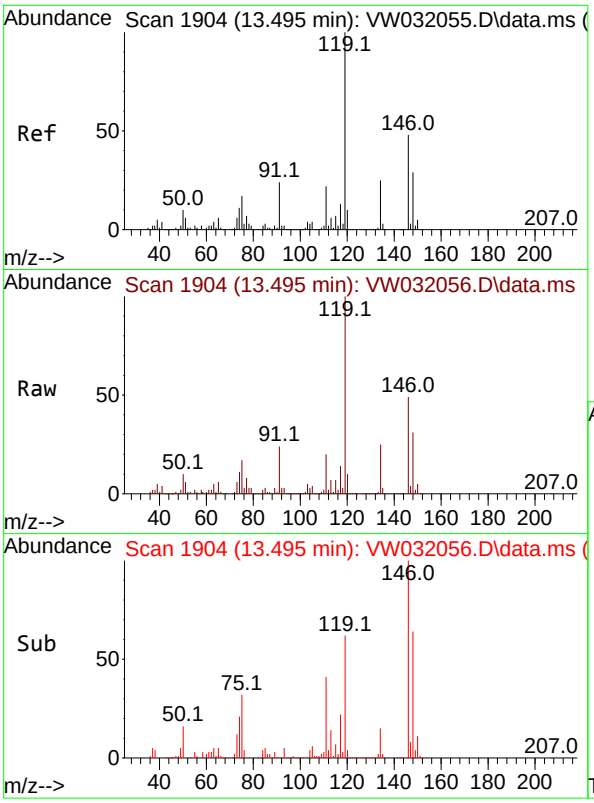


#86
p-Isopropyltoluene
Concen: 100.630 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

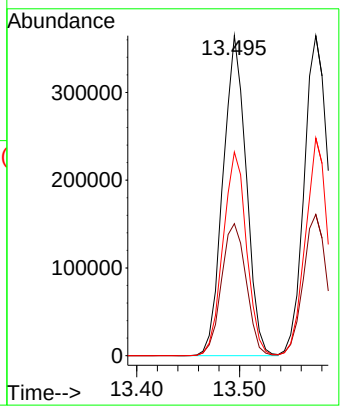




#87
1,3-Dichlorobenzene
Concen: 95.298 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 57214

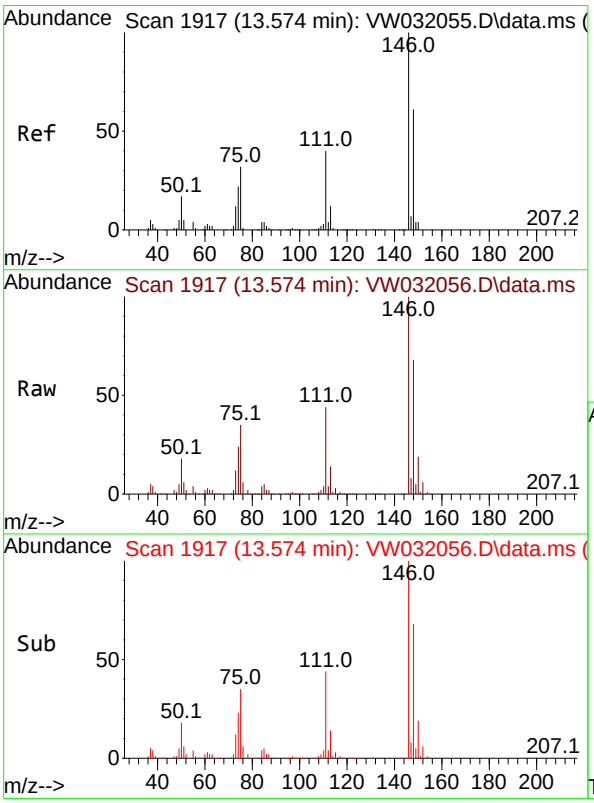
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.2	63.6
148	64.4	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

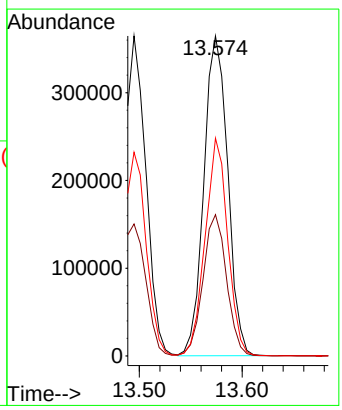
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

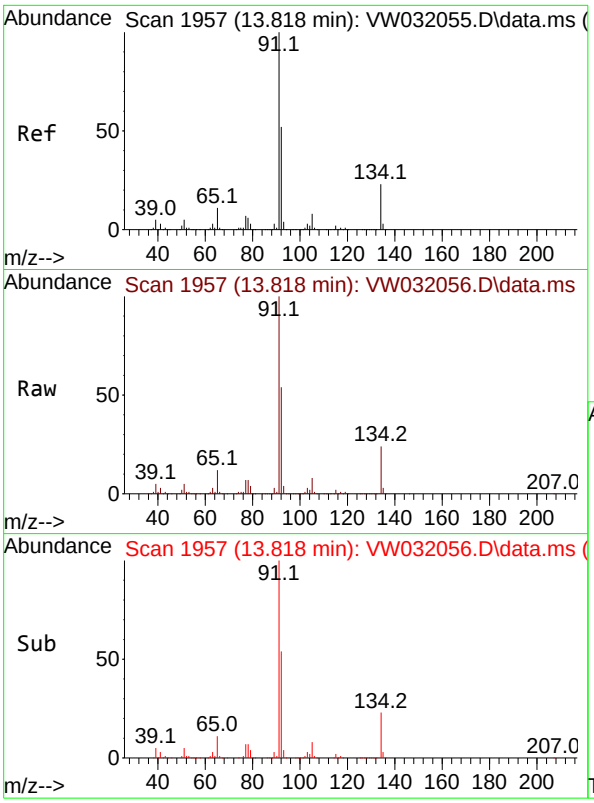


#88
1,4-Dichlorobenzene
Concen: 96.819 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

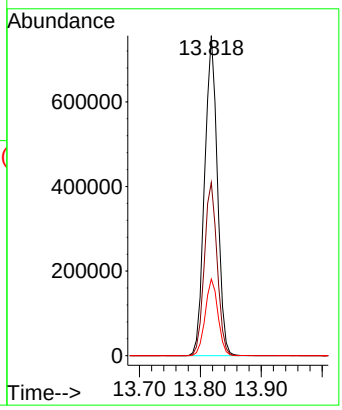




#89
n-Butylbenzene
Concen: 101.235 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 110336

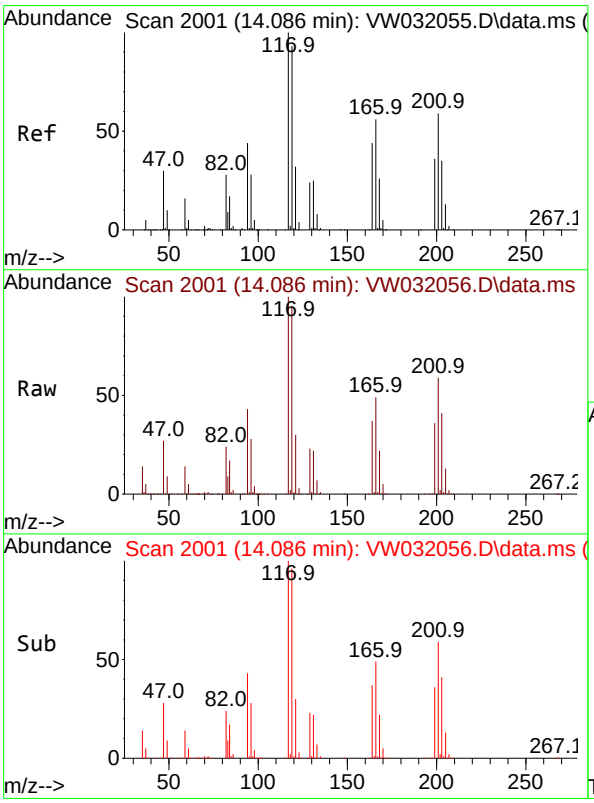
Ion	Ratio	Lower	Upper
91	100		
92	54.3	26.7	80.1
134	24.0	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

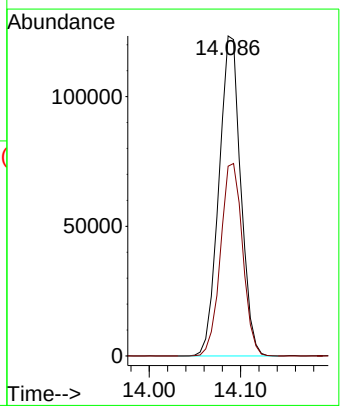
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

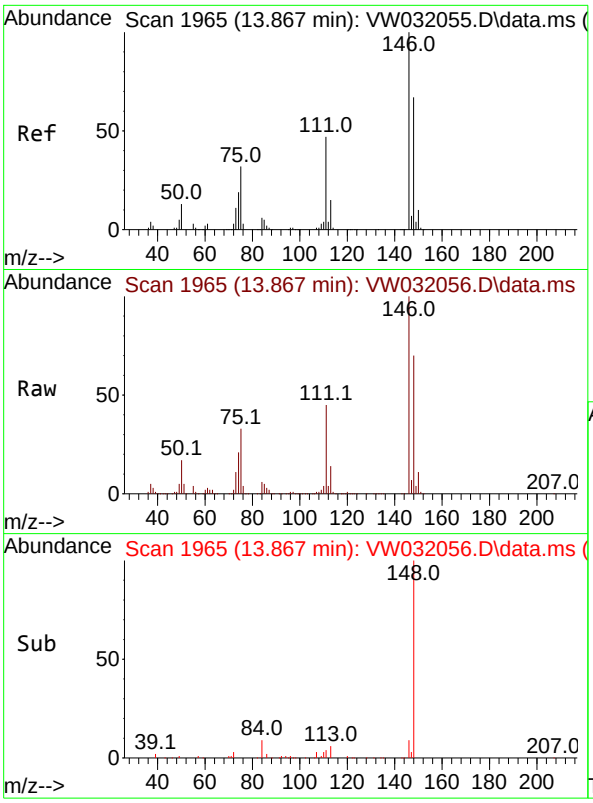


#90
Hexachloroethane
Concen: 99.832 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 204823

Ion	Ratio	Lower	Upper
117	100		
201	60.9	30.9	92.5

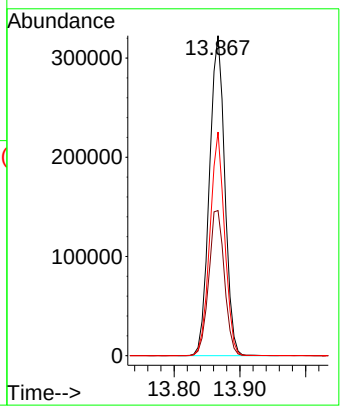




#91
1,2-Dichlorobenzene
Concen: 96.387 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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
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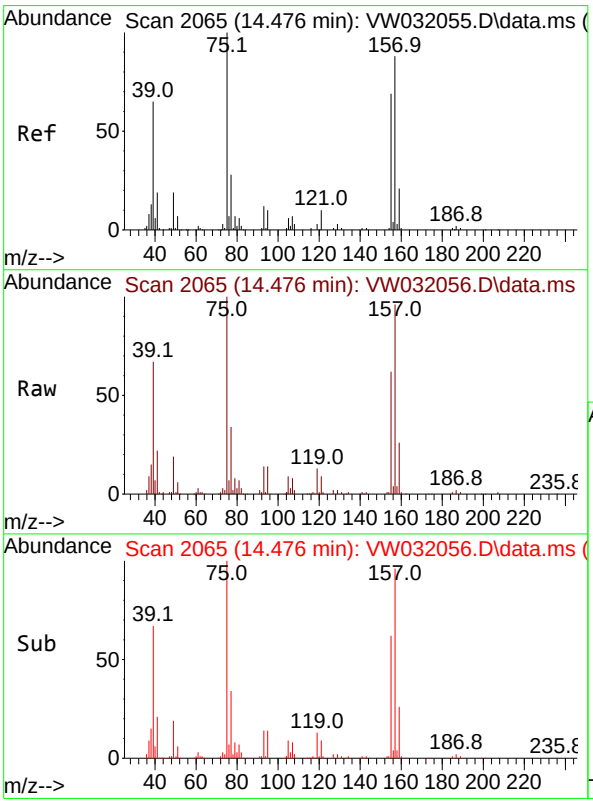
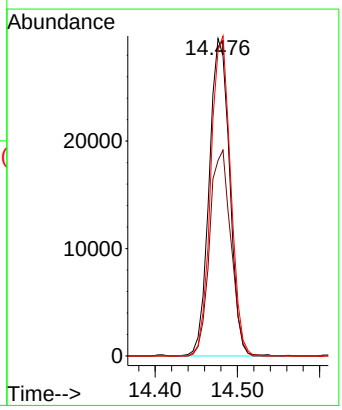
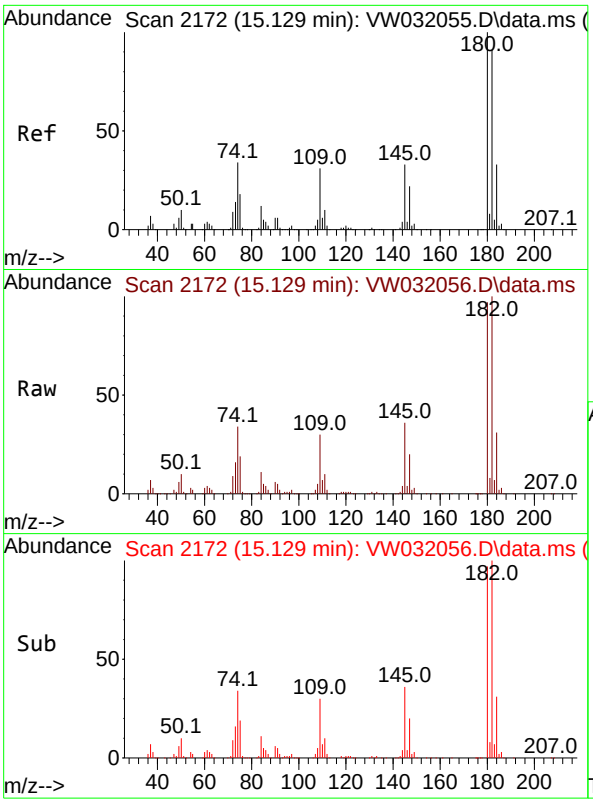


#92
1,2-Dibromo-3-Chloropropane
Concen: 95.632 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

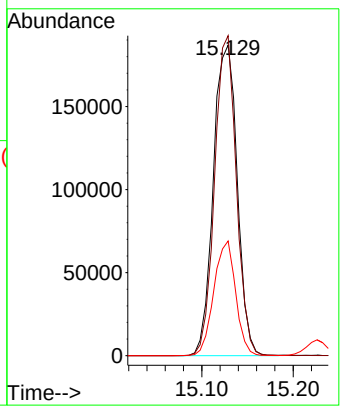




#93
1,2,4-Trichlorobenzene
Concen: 104.094 ug/l
RT: 15.129 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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
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Reviewed By :Mahesh Dadoda 08/12/2025
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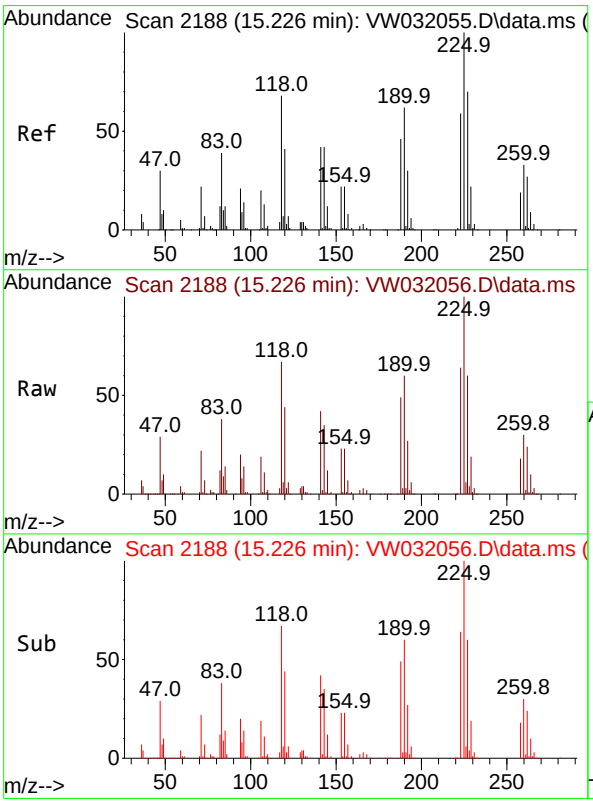
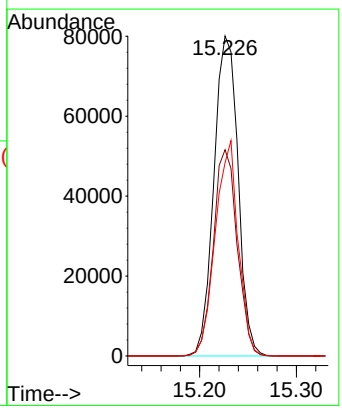
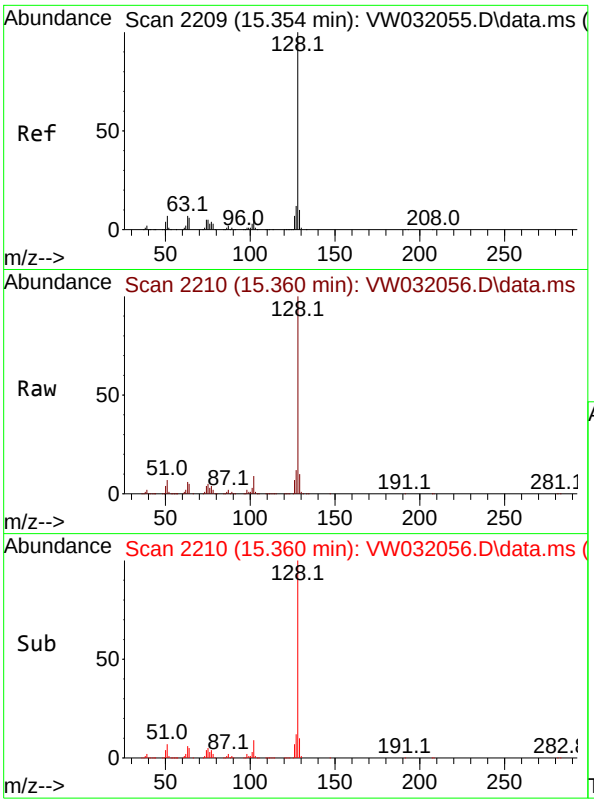


#94
Hexachlorobutadiene
Concen: 95.189 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

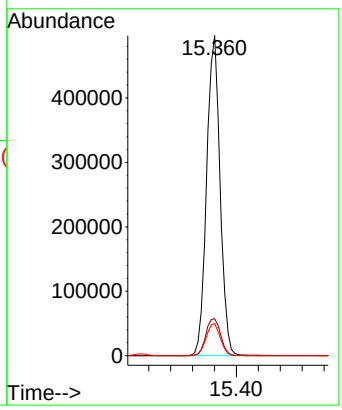




#95
Naphthalene
Concen: 105.533 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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
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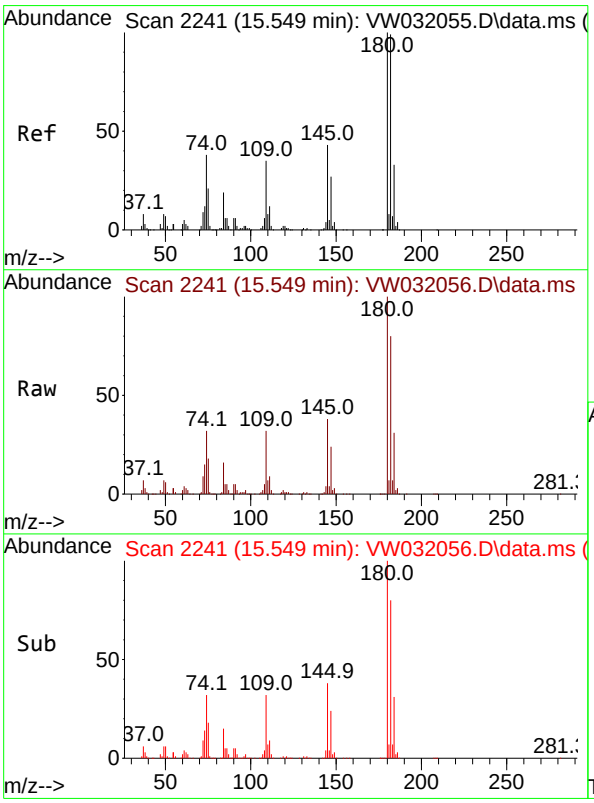
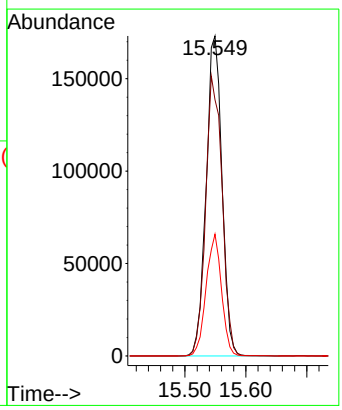


#96
1,2,3-Trichlorobenzene
Concen: 105.748 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



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

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

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

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

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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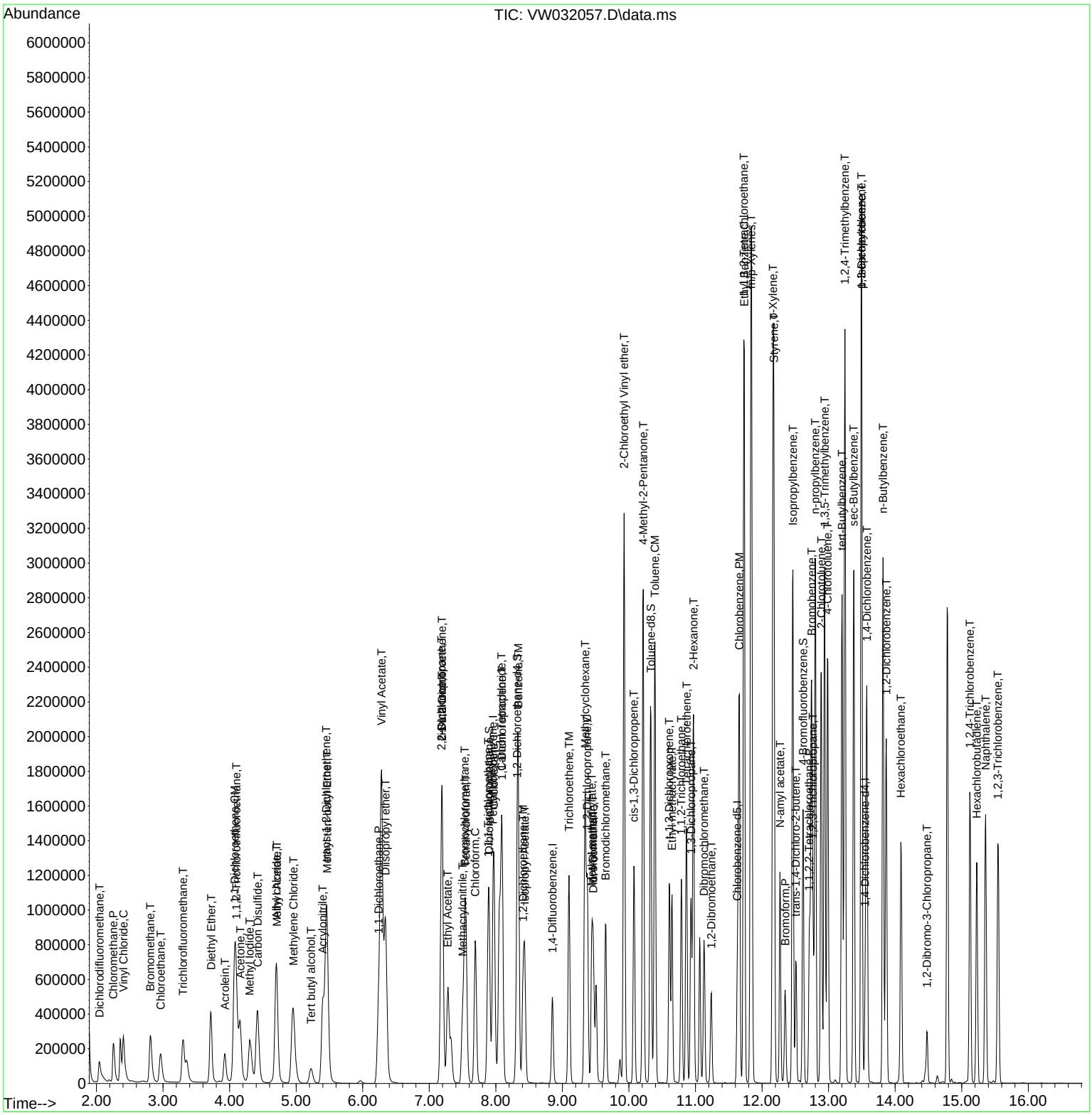
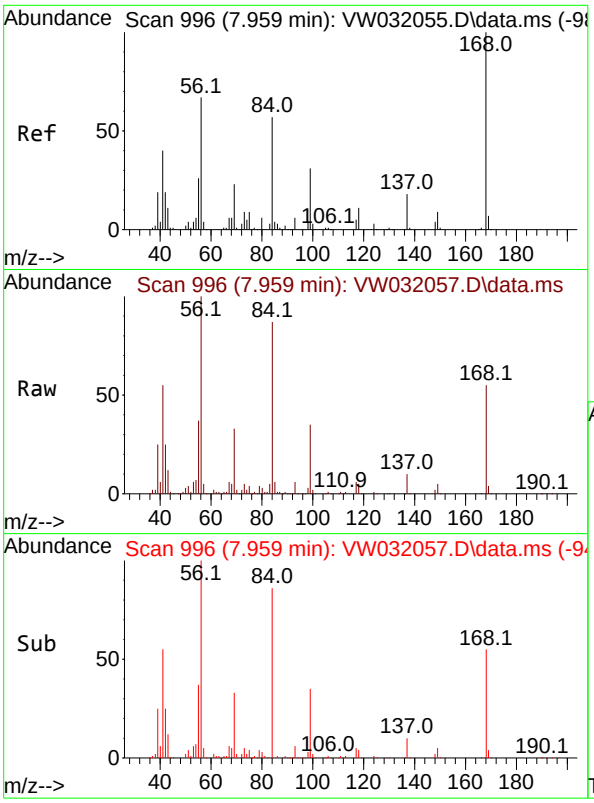
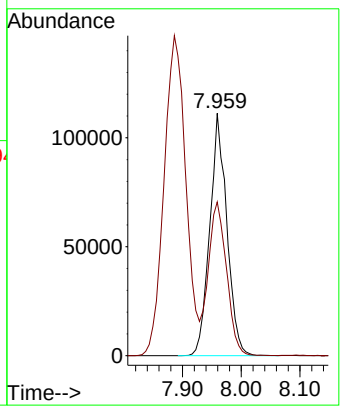




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:168 Resp: 22461

Ion	Ratio	Lower	Upper
168	100		
99	63.4	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

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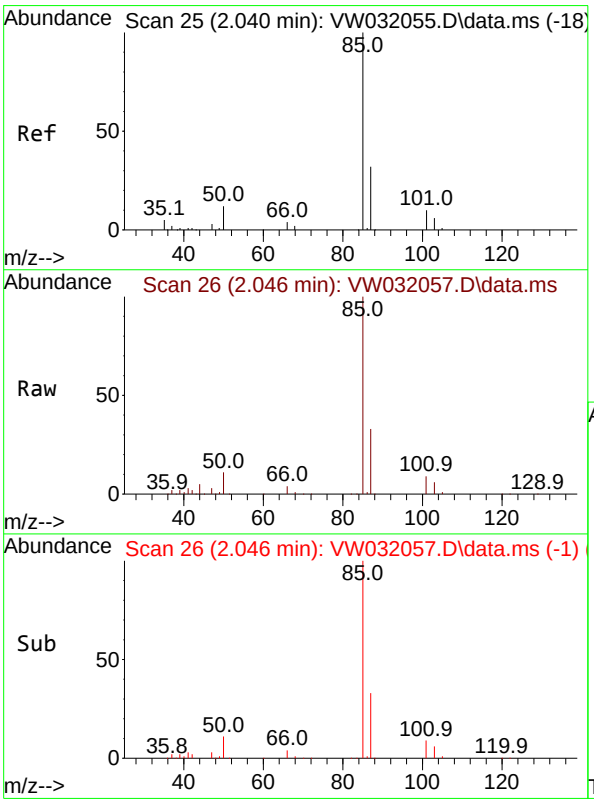
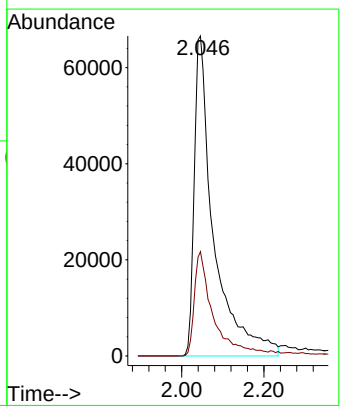
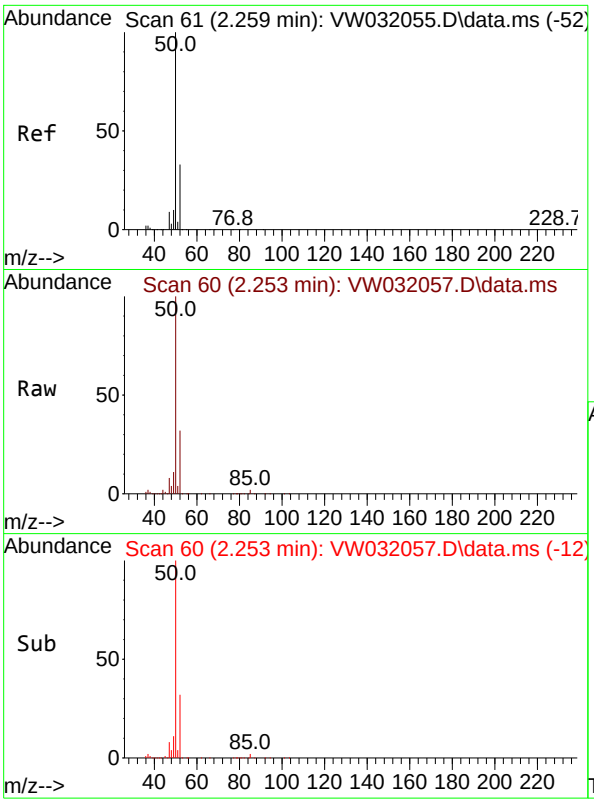


#2
Dichlorodifluoromethane
Concen: 136.294 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 85 Resp: 218953

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6

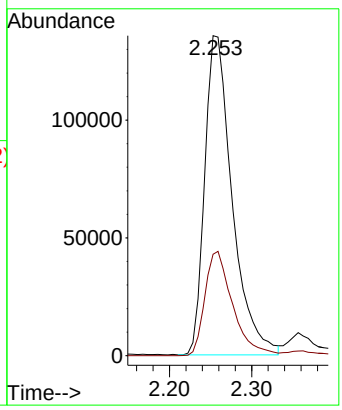




#3
Chloromethane
Concen: 145.923 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 50 Resp: 31577

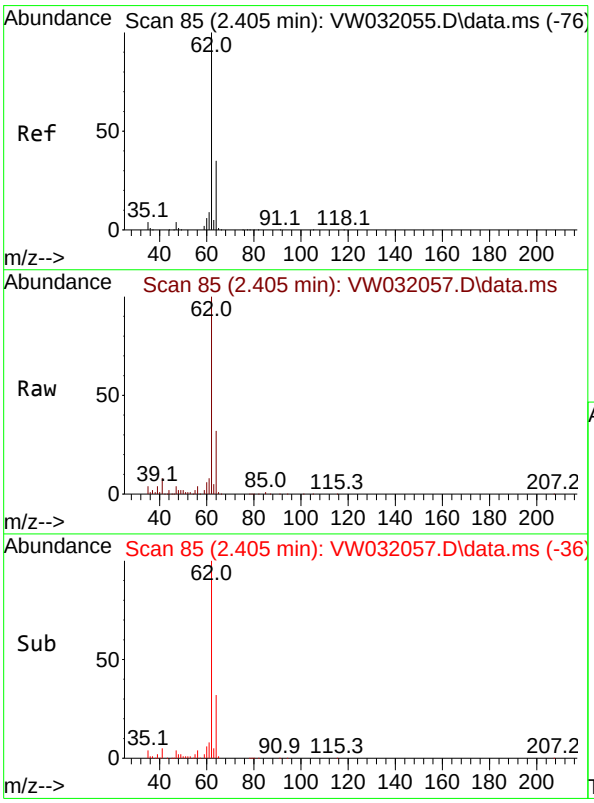
Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

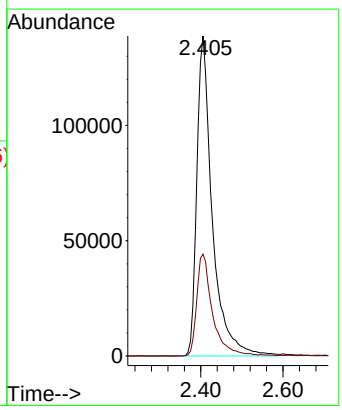
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

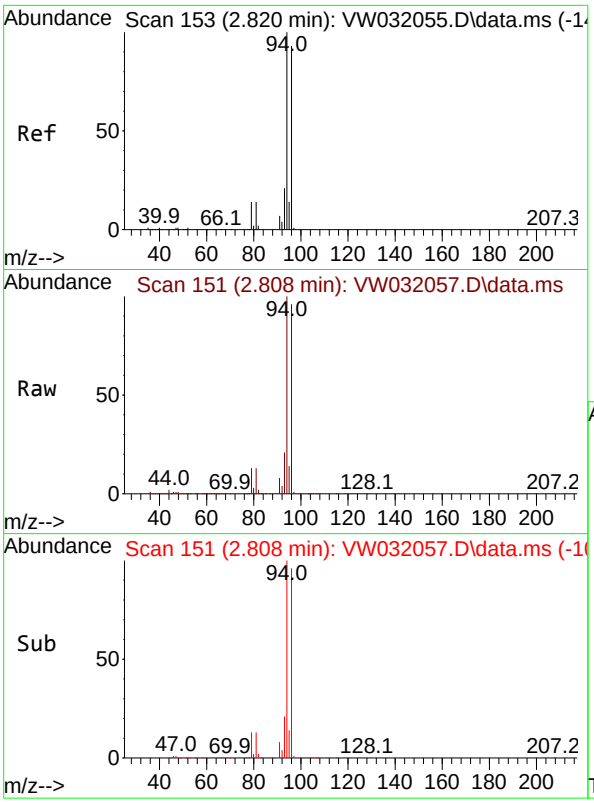


#4
Vinyl Chloride
Concen: 138.343 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 362119

Ion	Ratio	Lower	Upper
62	100		
64	31.8	27.8	41.6

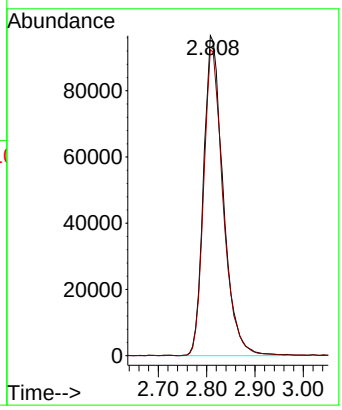




#5
Bromomethane
Concen: 138.413 ug/l
RT: 2.808 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 APPROVED

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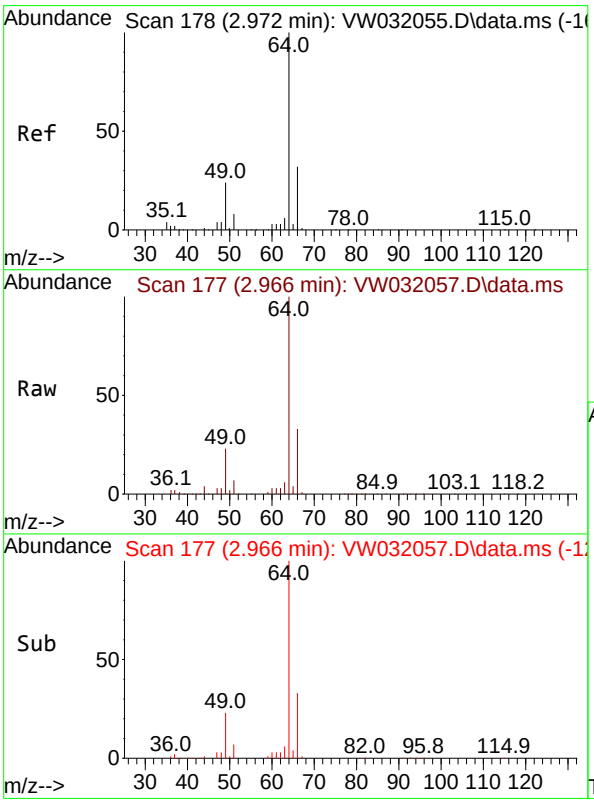
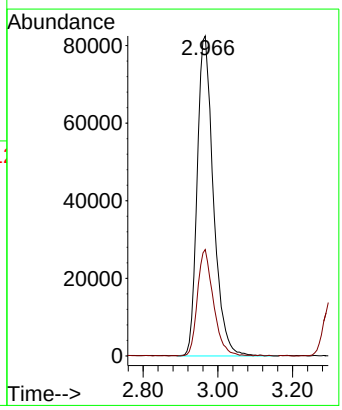
Supervised By :Semsettin Yesilyurt 08/12/2025

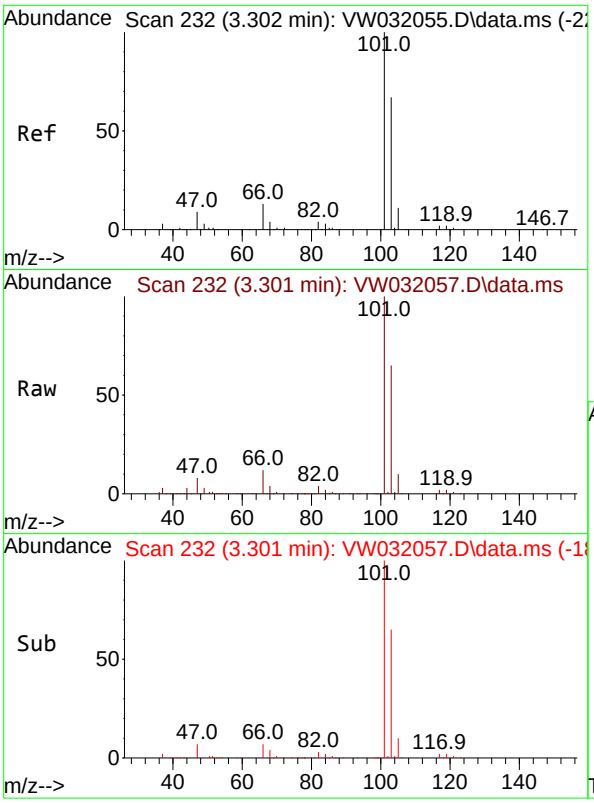


#6
Chloroethane
Concen: 143.117 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 64 Resp: 247890

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.0	39.0

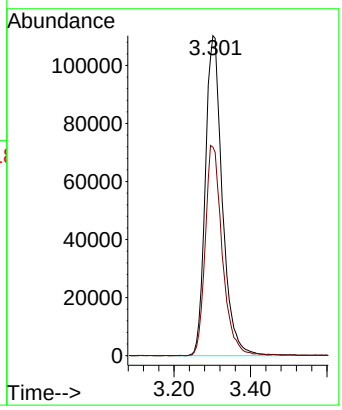




#7
Trichlorofluoromethane
Concen: 161.851 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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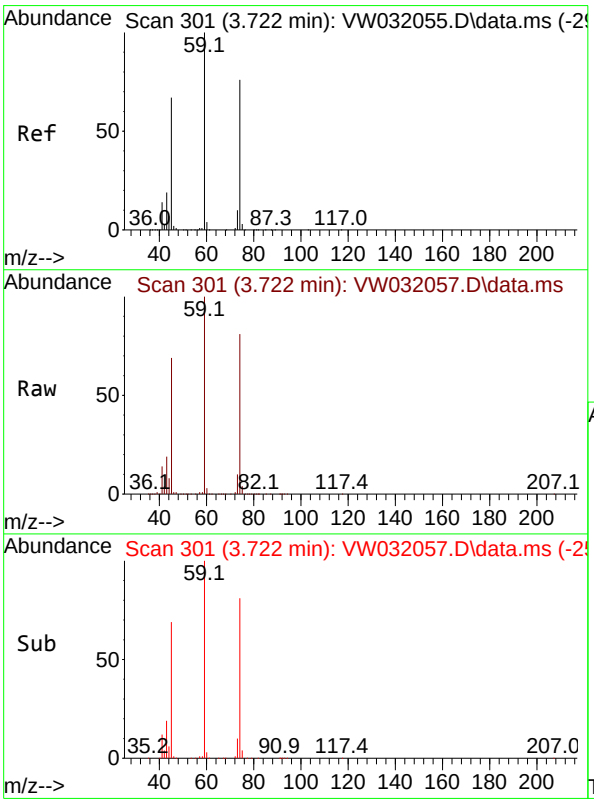
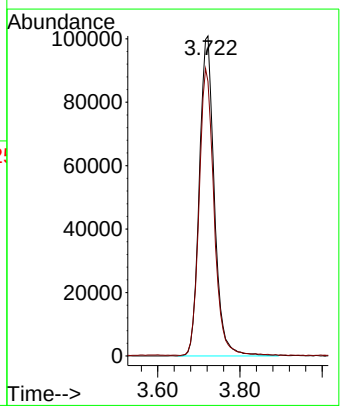
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

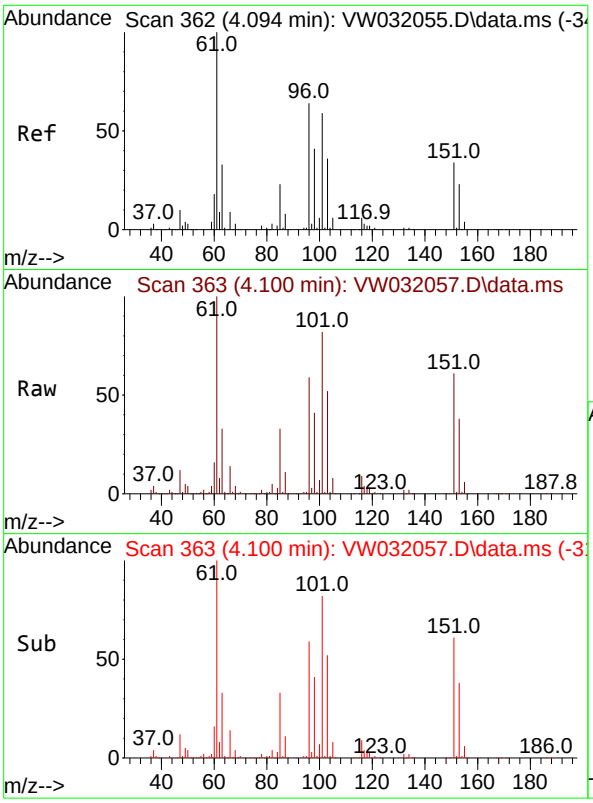


#8
Diethyl Ether
Concen: 148.178 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 74 Resp: 254566

Ion	Ratio	Lower	Upper
74	100		
45	89.1	45.4	136.2

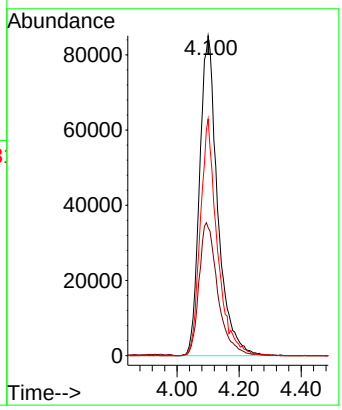




#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.957 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
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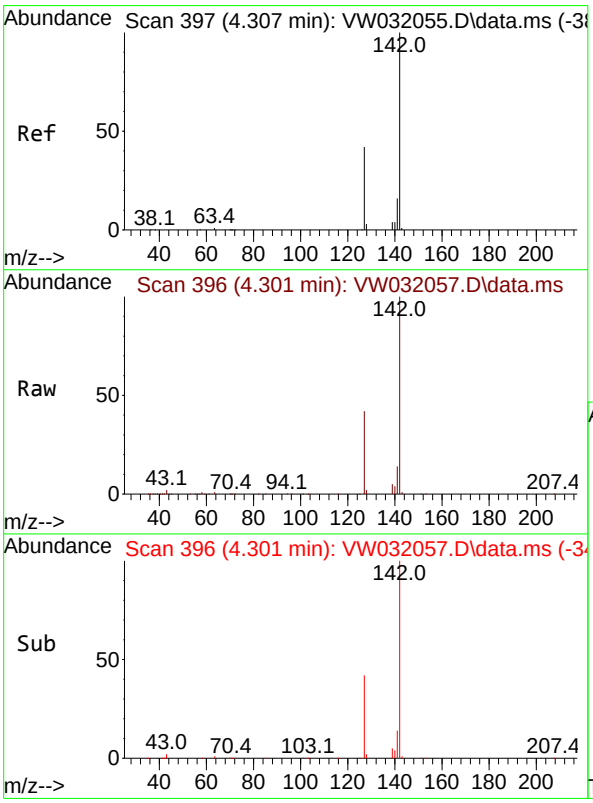
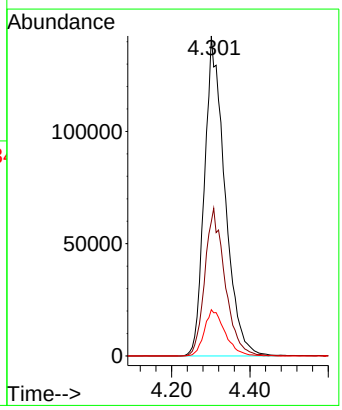
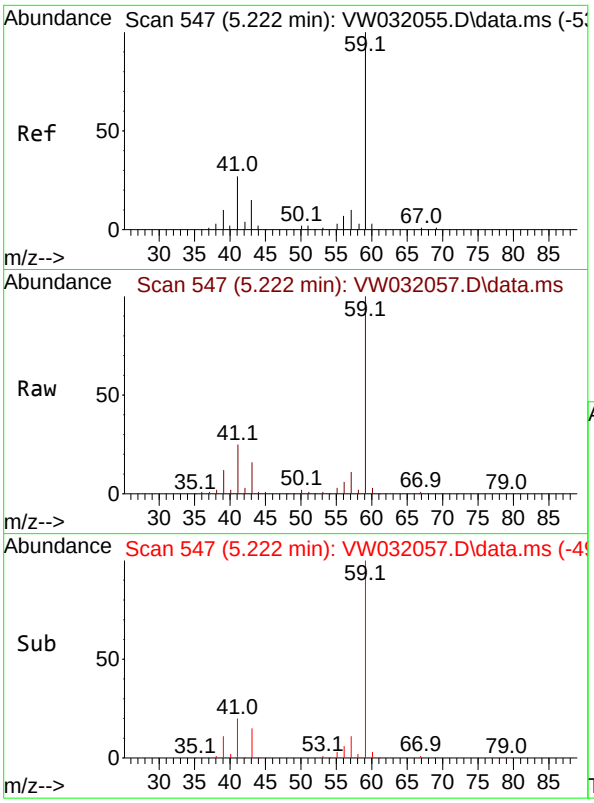


#10
Methyl Iodide
Concen: 146.812 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
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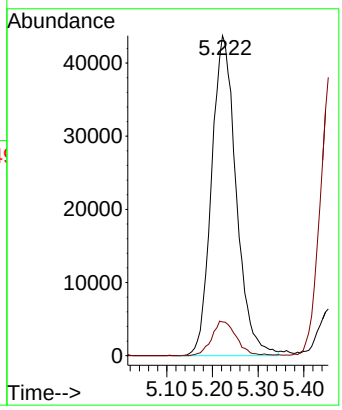
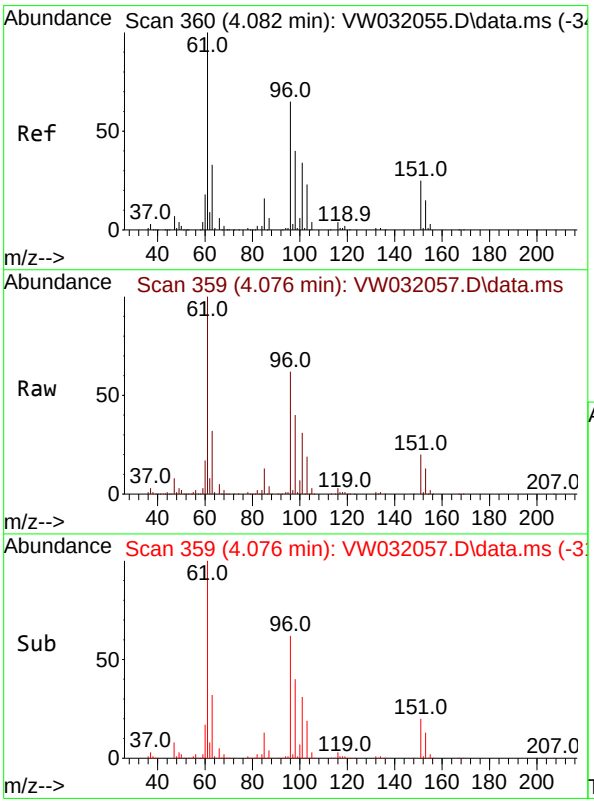
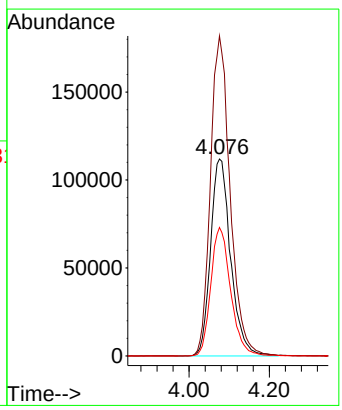


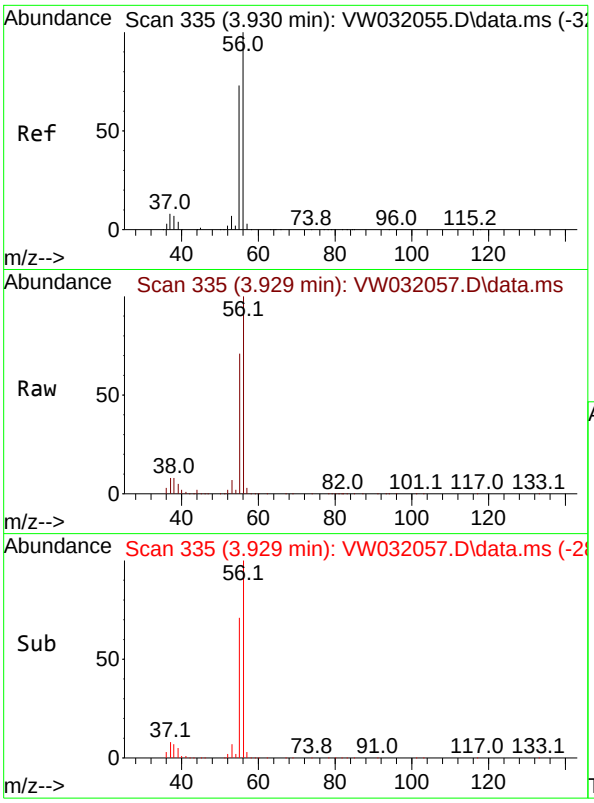


#12
1,1-Dichloroethene
Concen: 142.642 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 APPROVED

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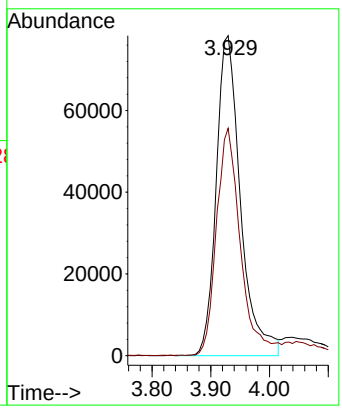
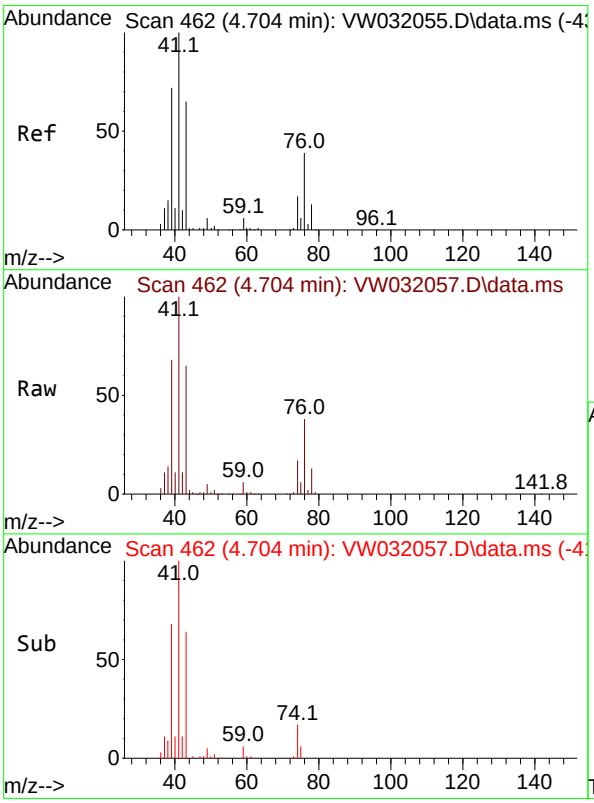
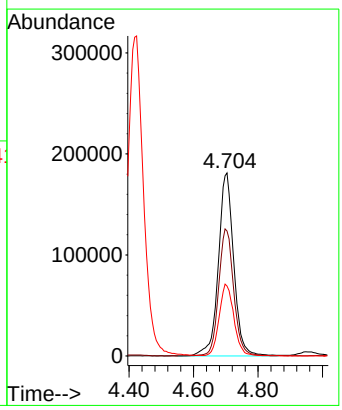


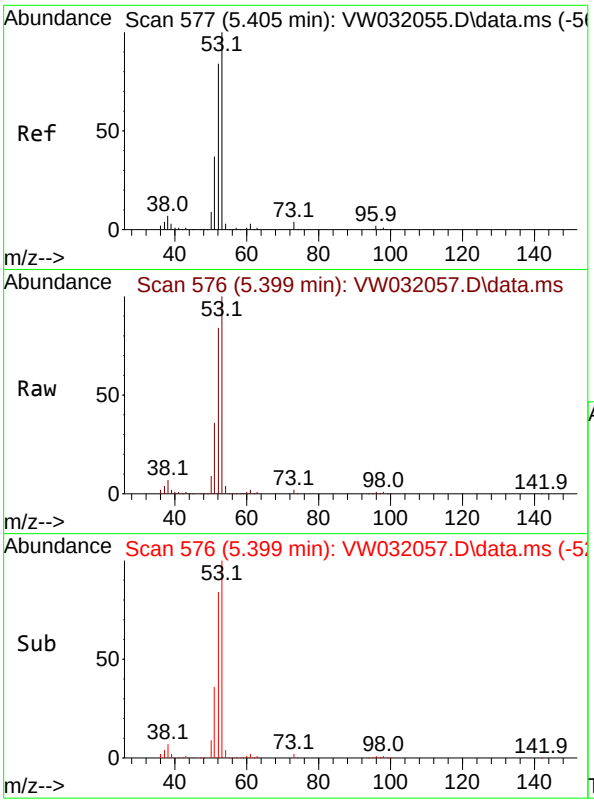


#14
Allyl chloride
Concen: 151.415 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

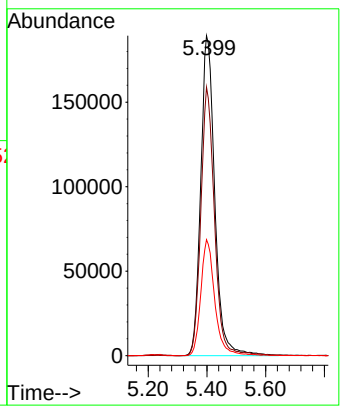




#15
Acrylonitrile
Concen: 769.843 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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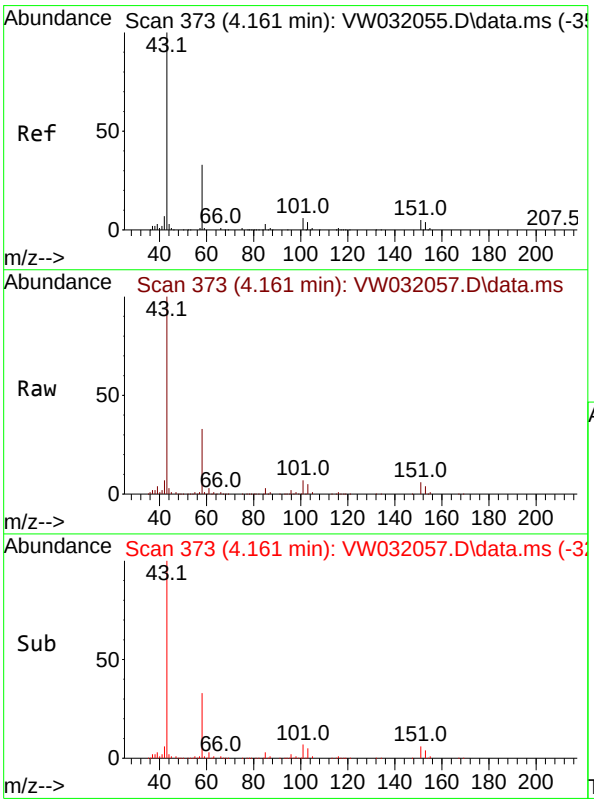
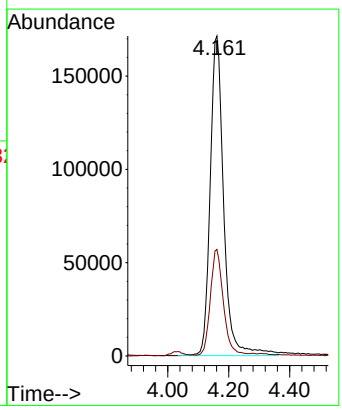
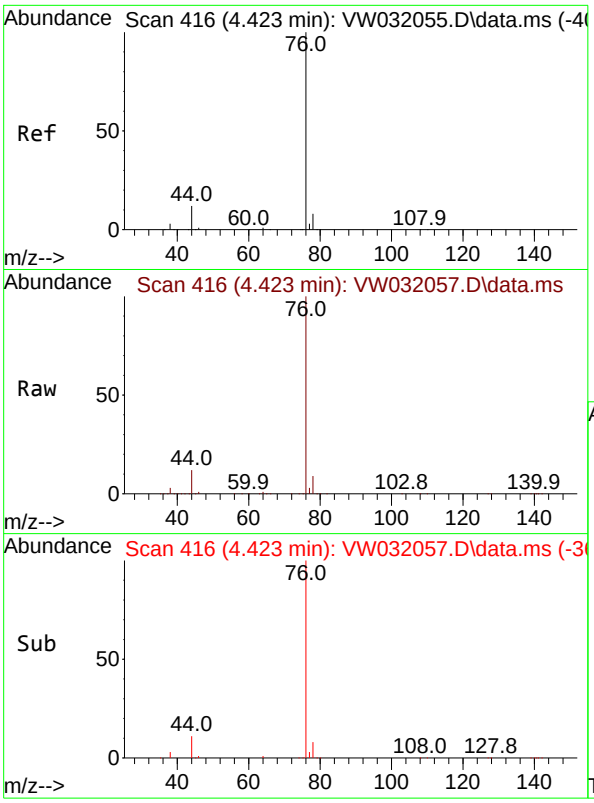


#16
Acetone
Concen: 702.794 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 528585

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8

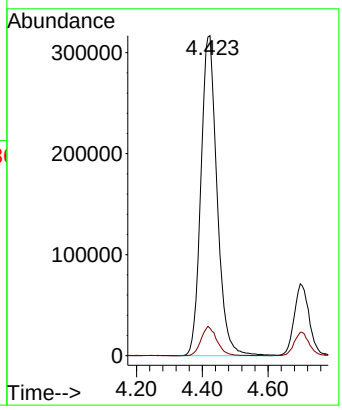




#17
Carbon Disulfide
Concen: 147.872 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 76 Resp: 108118

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.4	9.6



Instrument :
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ClientSampleId :
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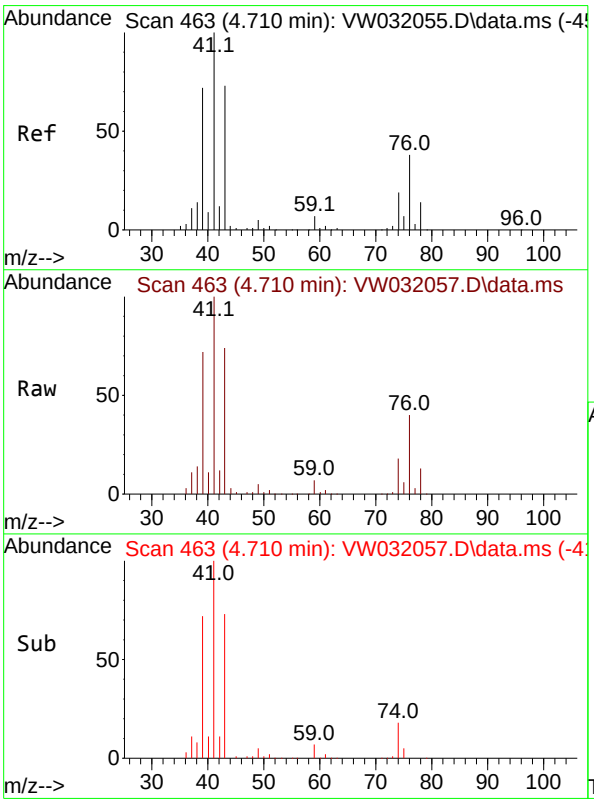
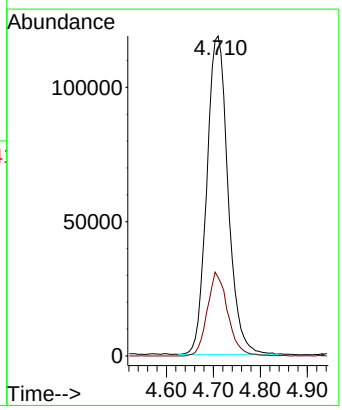
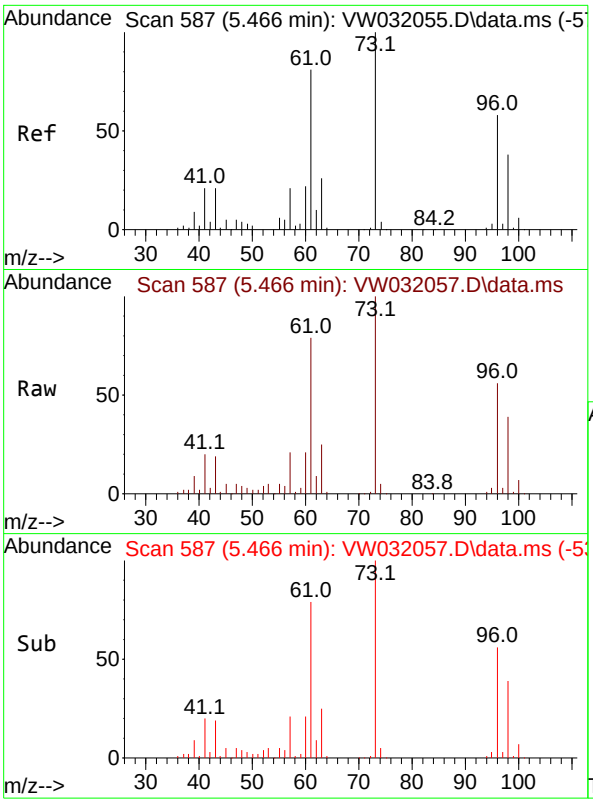


#18
Methyl Acetate
Concen: 155.895 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 371024

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.6	31.0

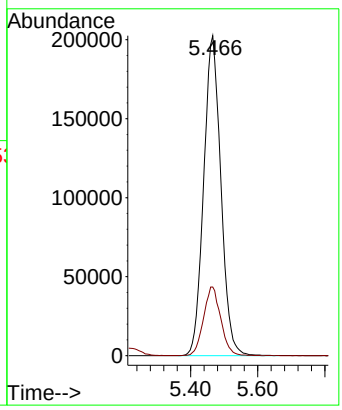




#19
Methyl tert-butyl Ether
Concen: 149.999 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 73 Resp: 71992

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.2	25.8



Instrument :
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ClientSampleId :
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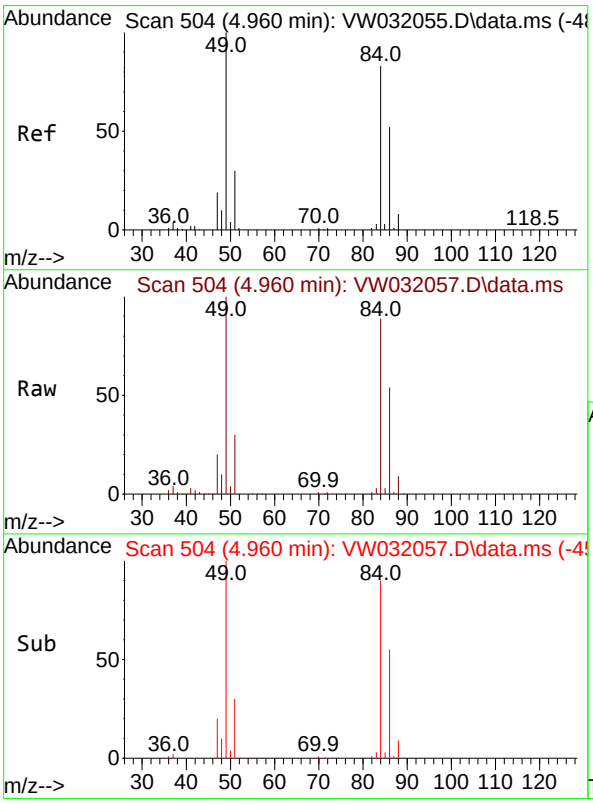
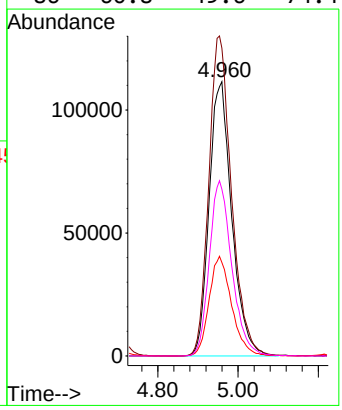
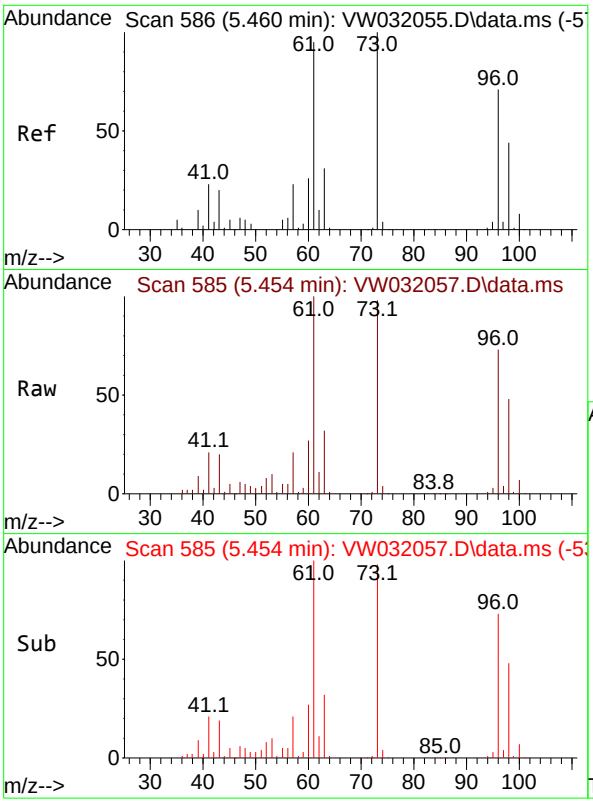


#20
Methylene Chloride
Concen: 125.744 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

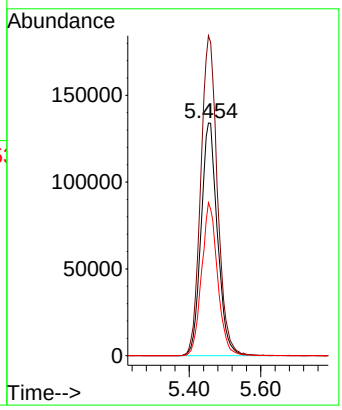




#21
trans-1,2-Dichloroethene
Concen: 147.794 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 :
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ClientSampleId :
VSTDICC150

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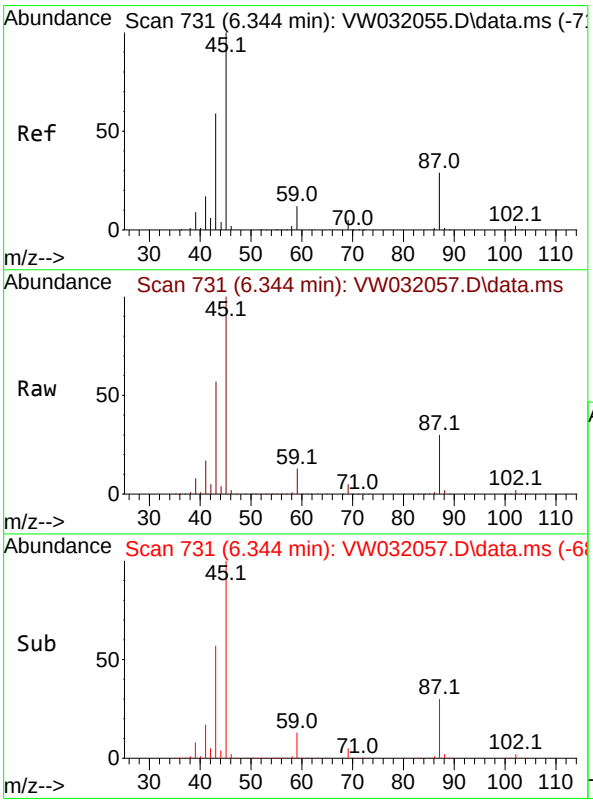
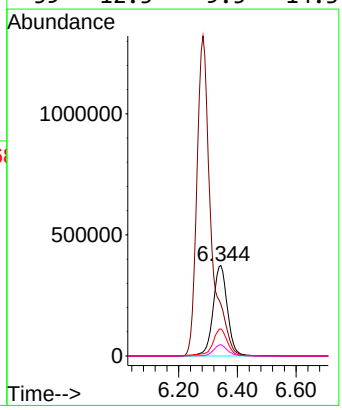
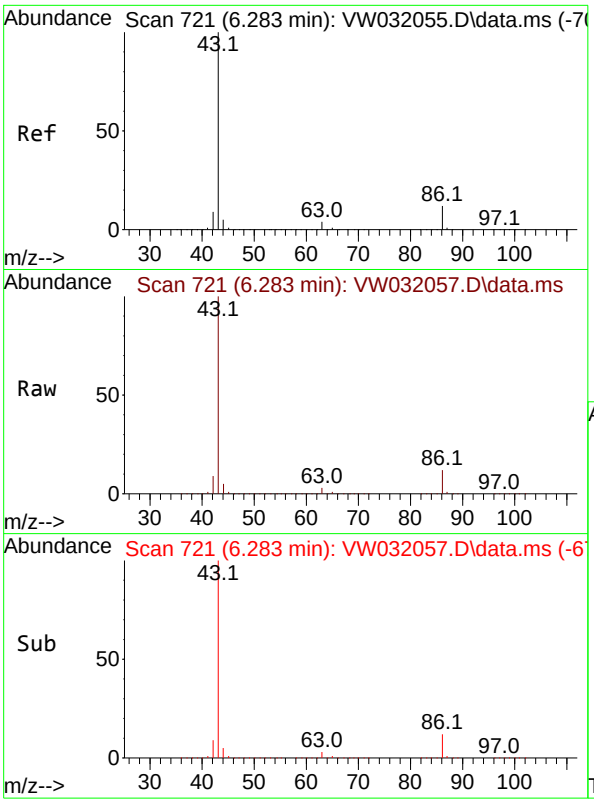


#22
Diisopropyl ether
Concen: 150.866 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 :
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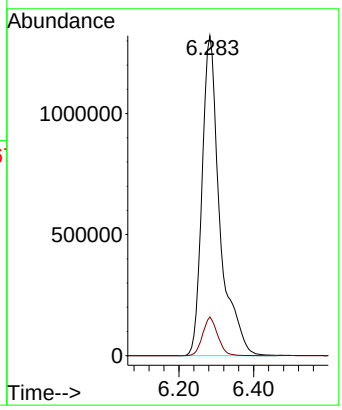
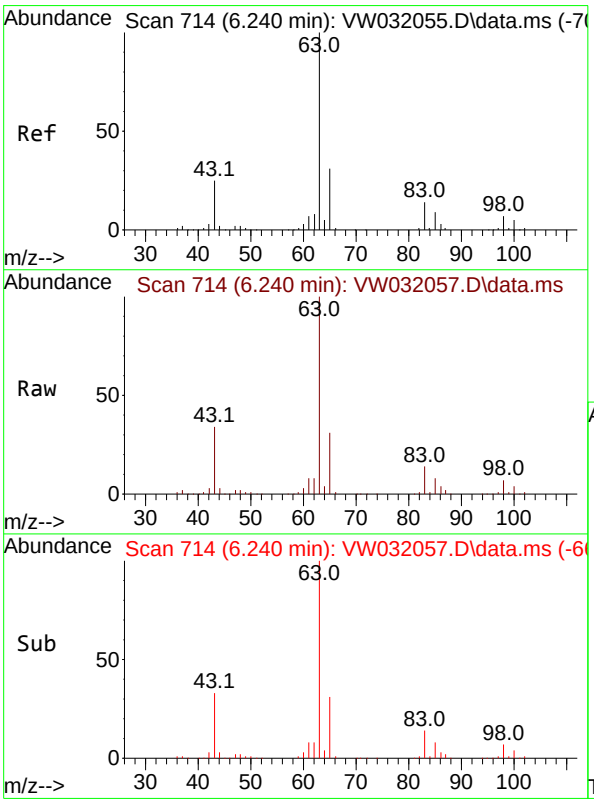
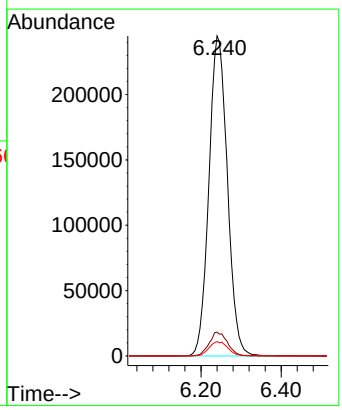


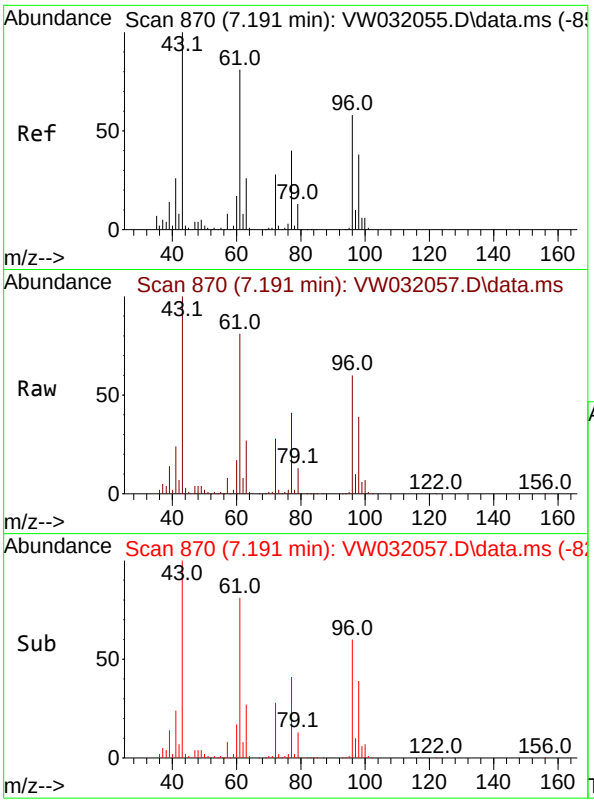


#24
1,1-Dichloroethane
Concen: 146.472 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

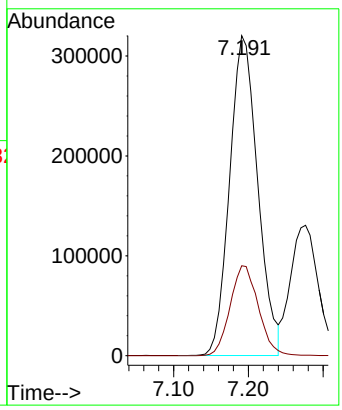




#25
2-Butanone
Concen: 783.936 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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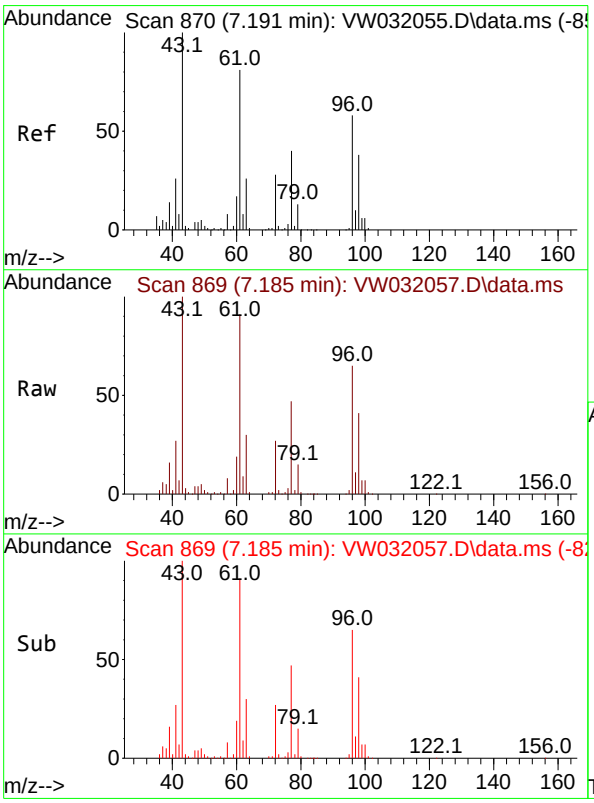
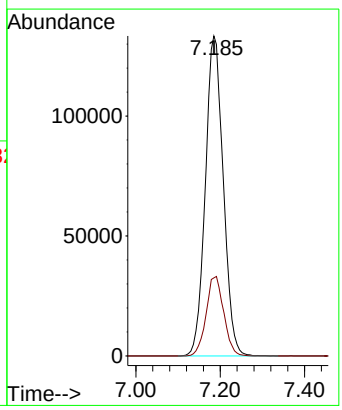
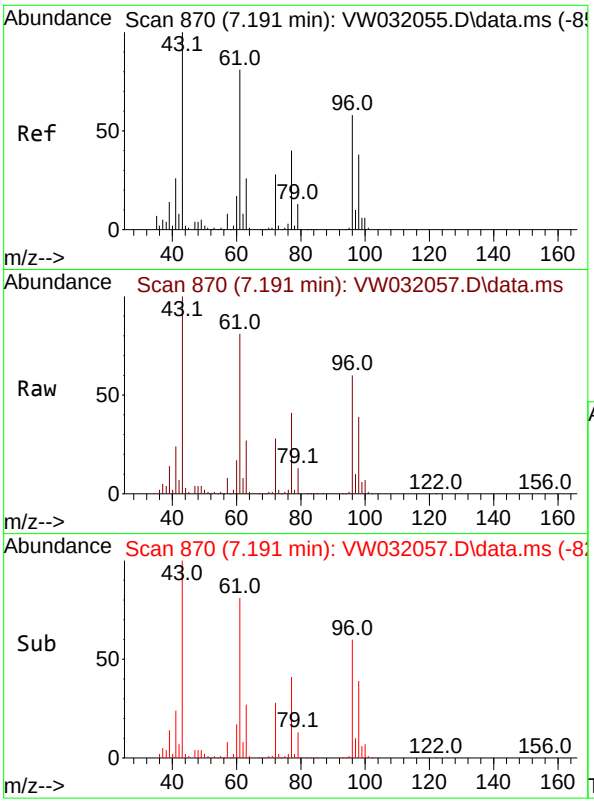


#26
2,2-Dichloropropane
Concen: 147.064 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 77 Resp: 393976

Ion	Ratio	Lower	Upper
77	100		
97	24.4	12.3	36.9

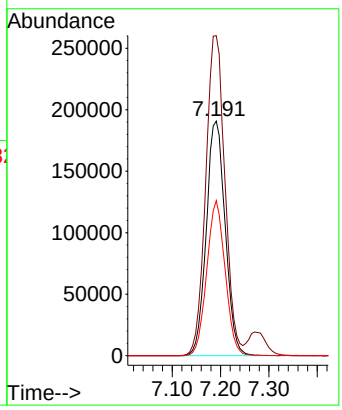




#27
cis-1,2-Dichloroethene
Concen: 153.420 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 :
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ClientSampleId :
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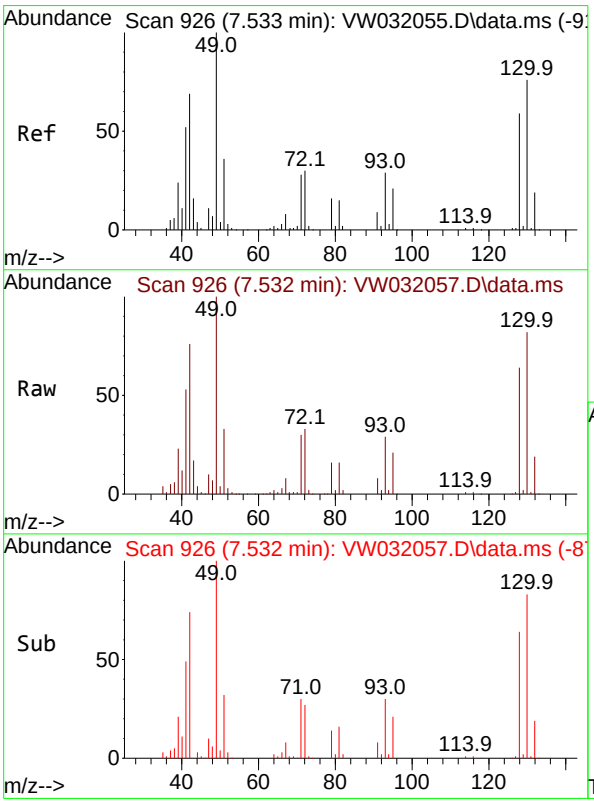
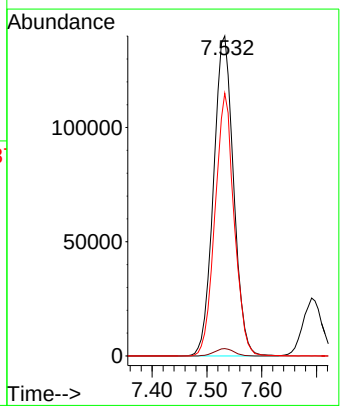
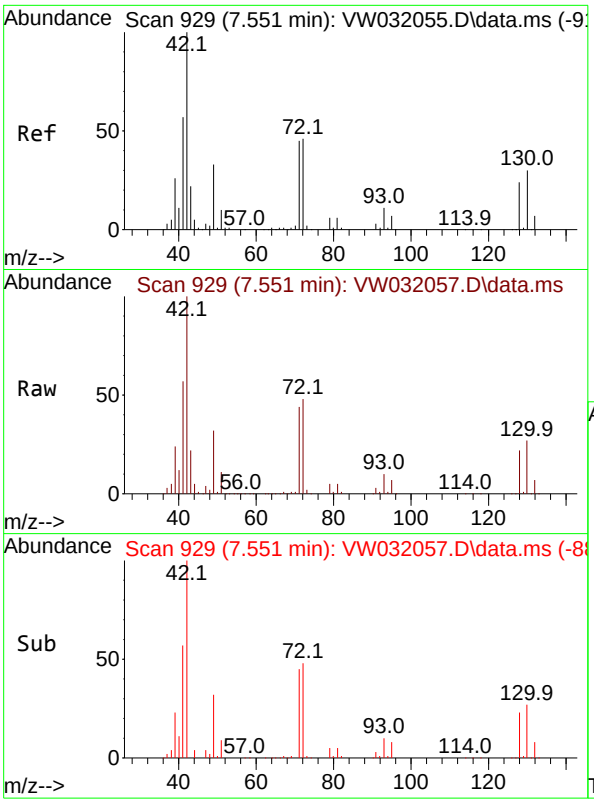


#28
Bromochloromethane
Concen: 146.781 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

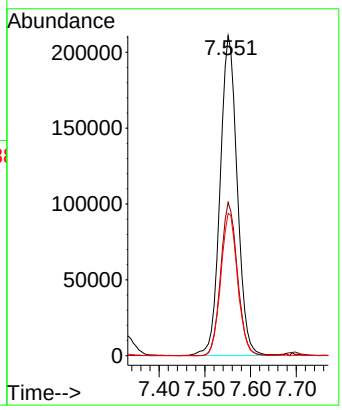




#29
Tetrahydrofuran
Concen: 779.054 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



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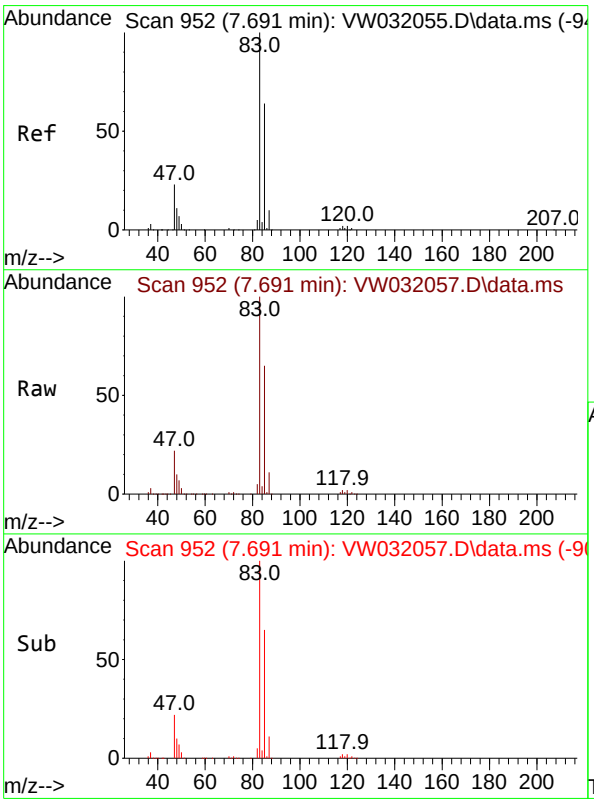
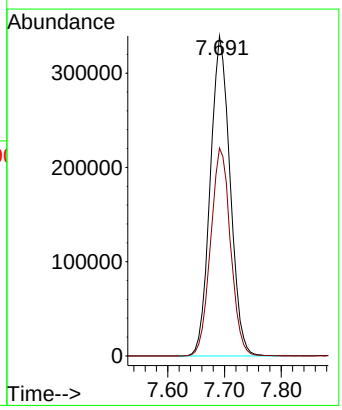
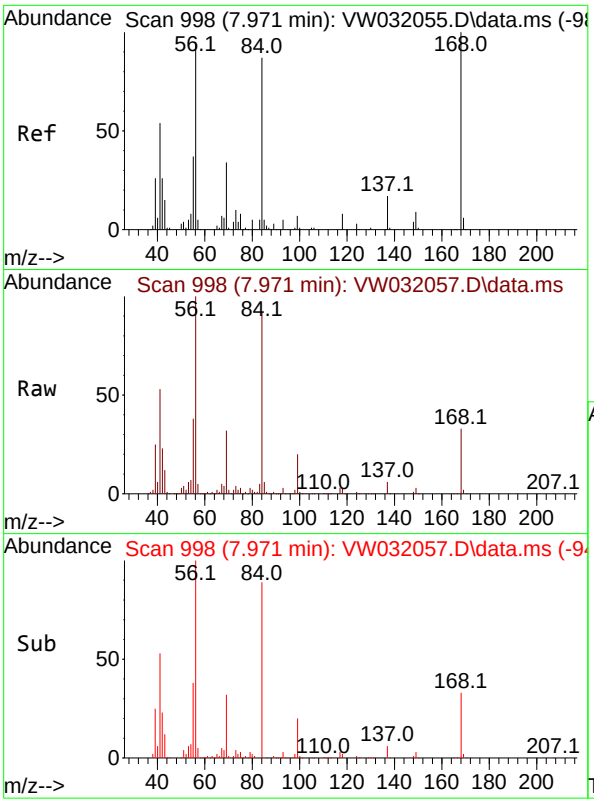


#30
Chloroform
Concen: 145.528 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 823850

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.0	76.4

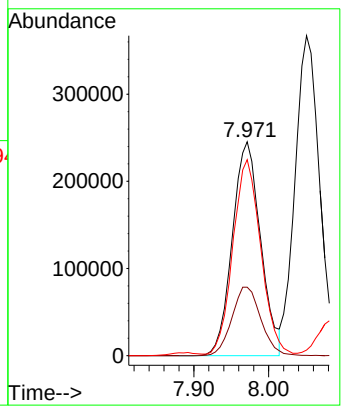




#31
Cyclohexane
Concen: 139.490 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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
ClientSampleId :
VSTDICC150

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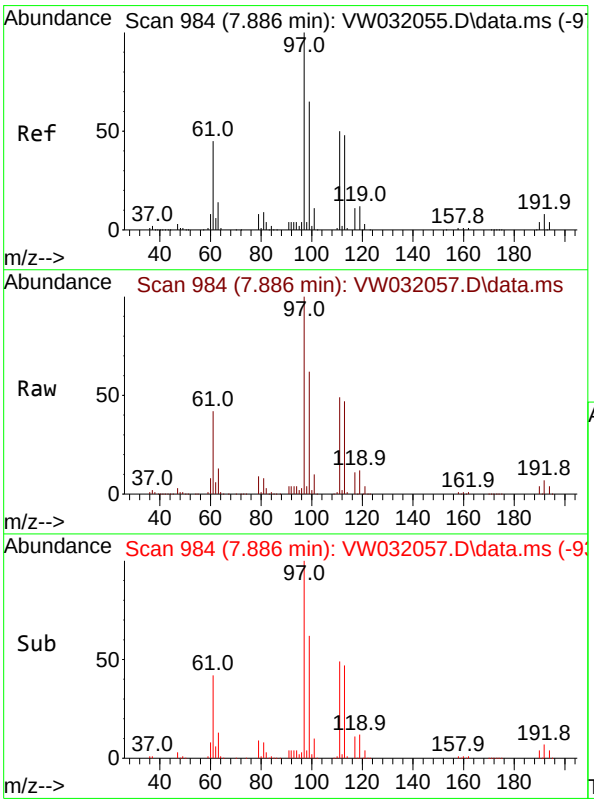
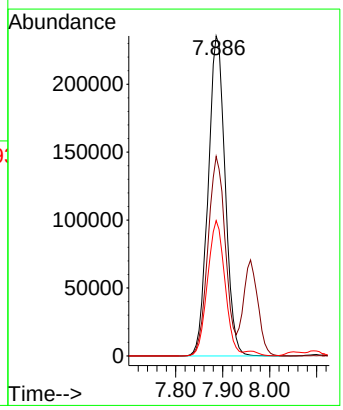
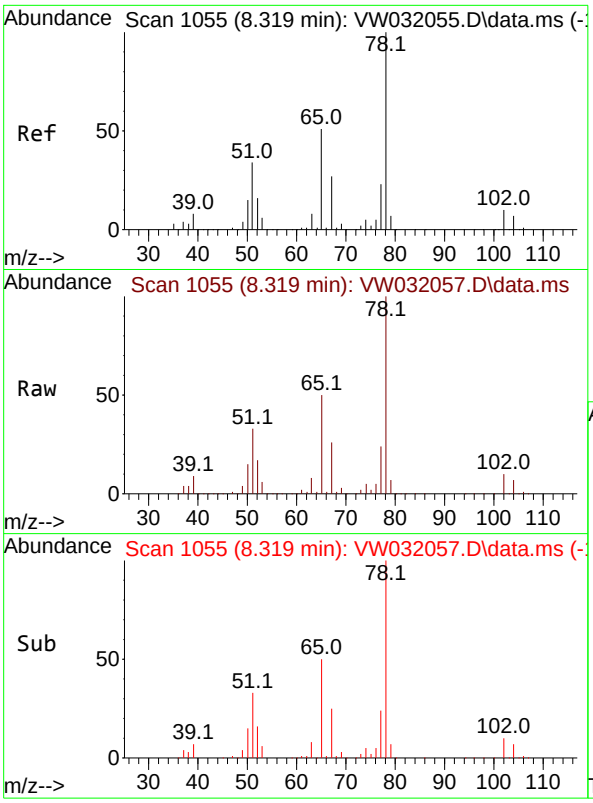


#32
1,1,1-Trichloroethane
Concen: 143.816 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

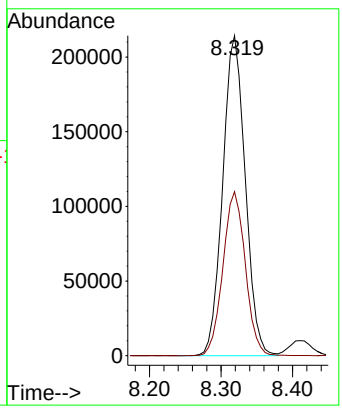




#33
1,2-Dichloroethane-d4
Concen: 144.584 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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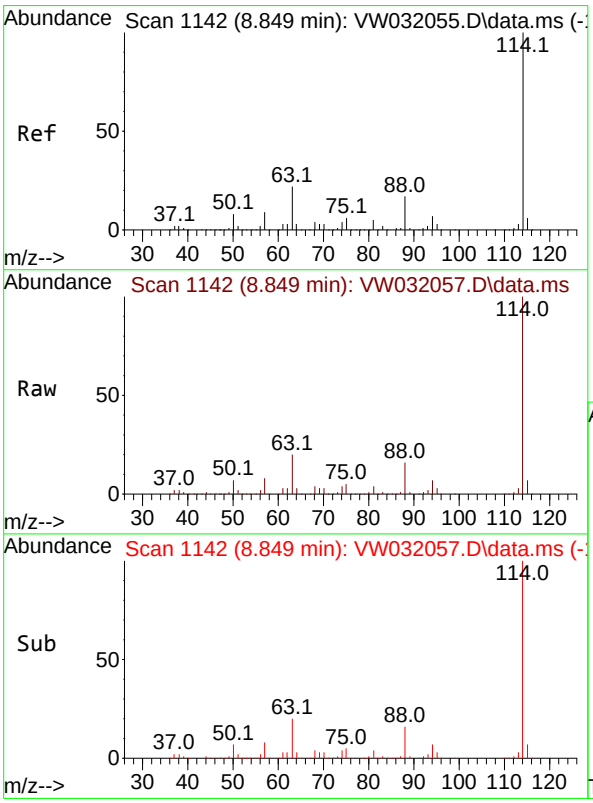
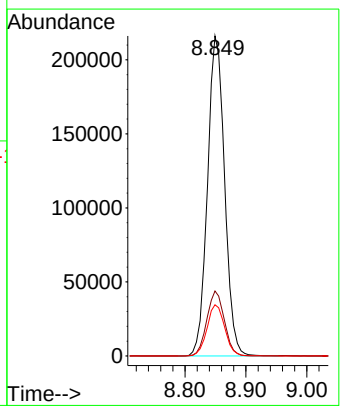
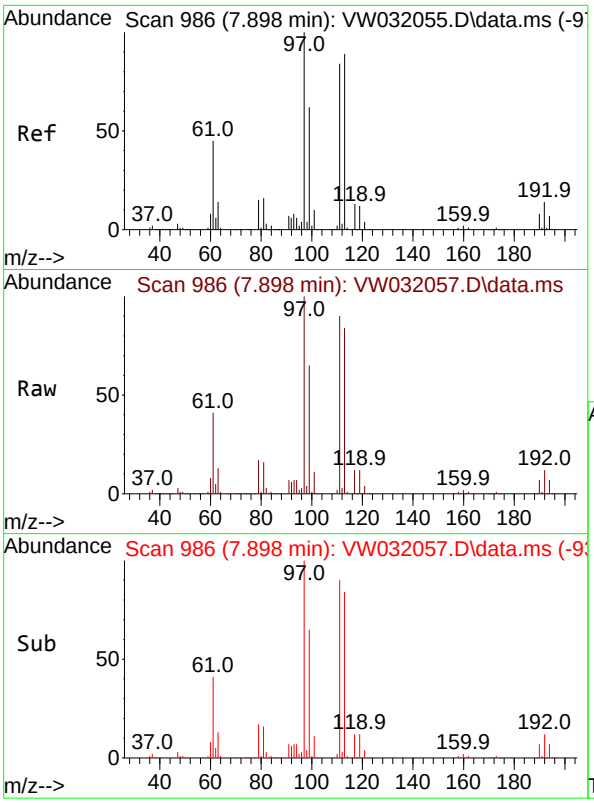


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

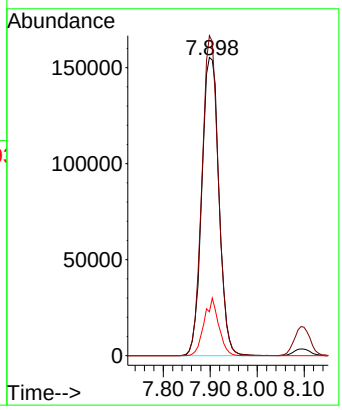




#35
Dibromofluoromethane
Concen: 144.207 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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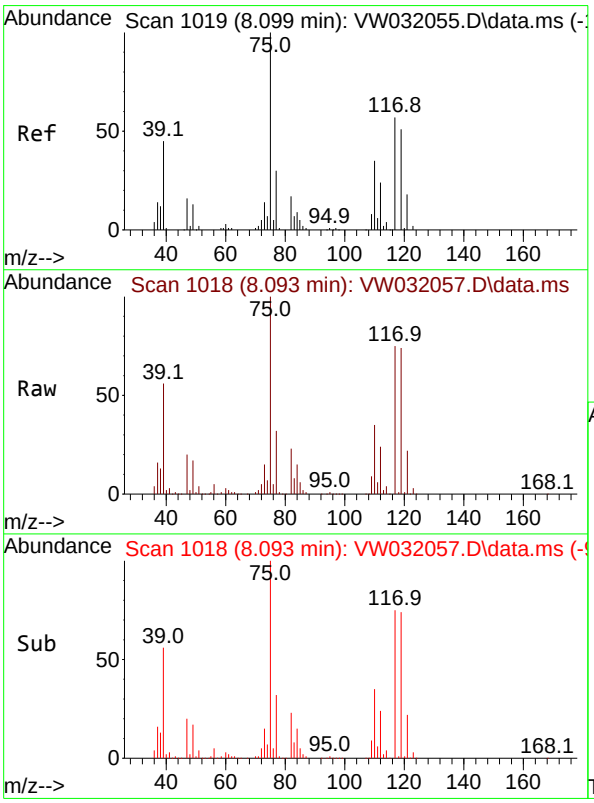
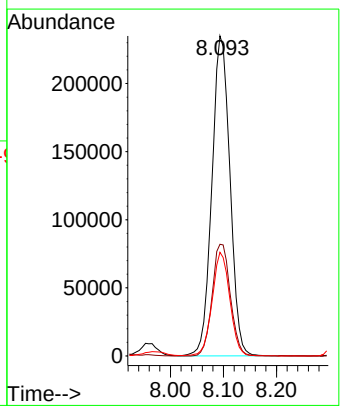
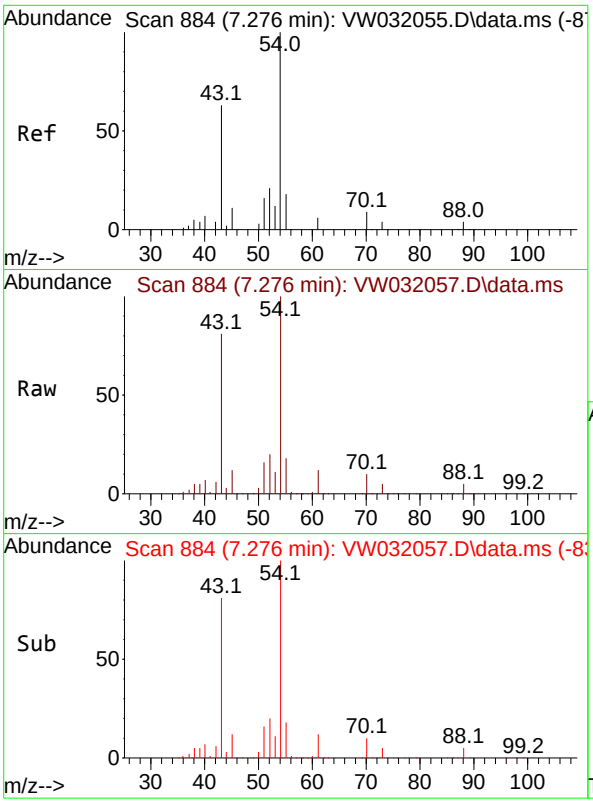


#36
1,1-Dichloropropene
Concen: 144.659 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 :
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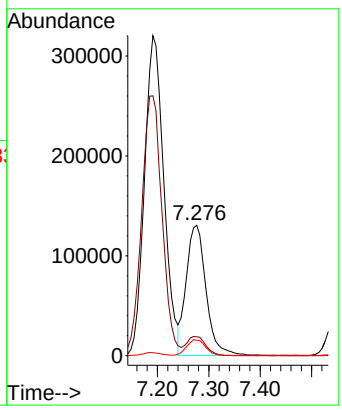
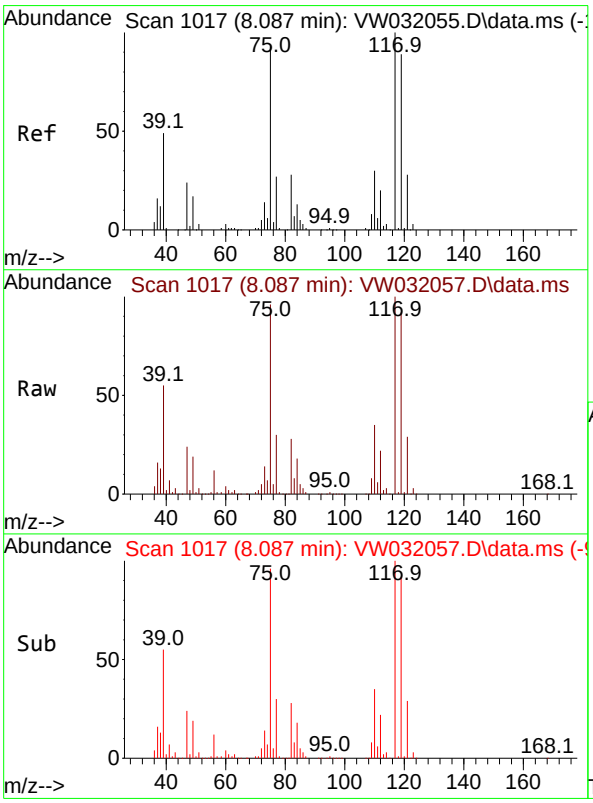
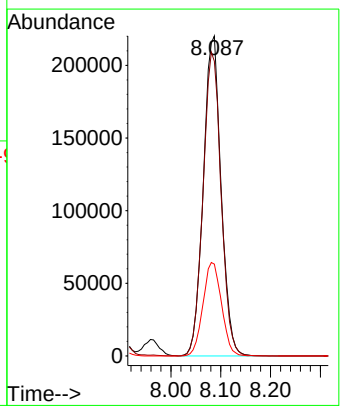


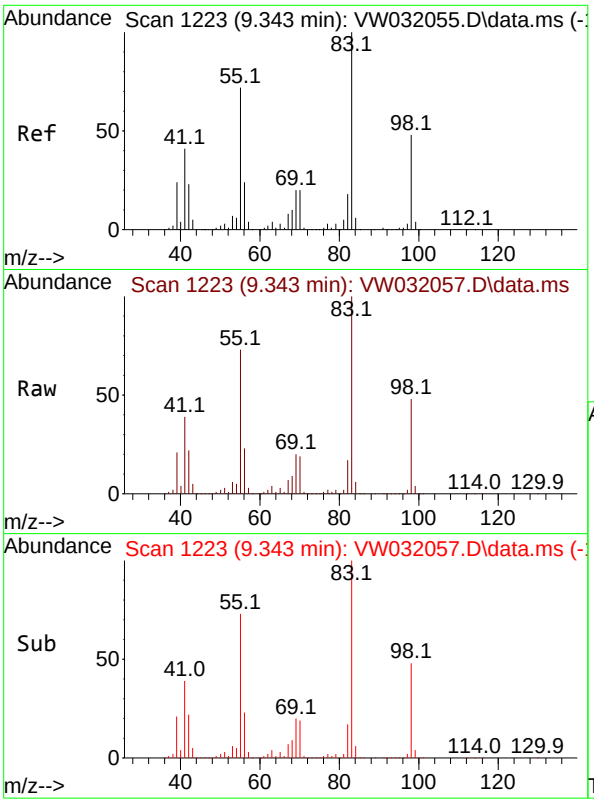


#38
Carbon Tetrachloride
Concen: 146.799 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

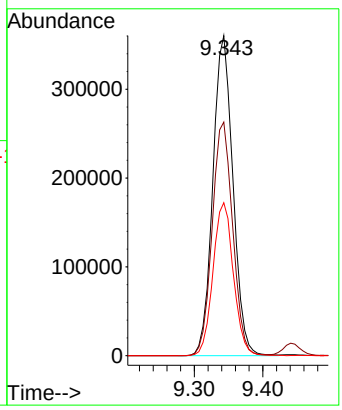




#39
Methylcyclohexane
Concen: 156.286 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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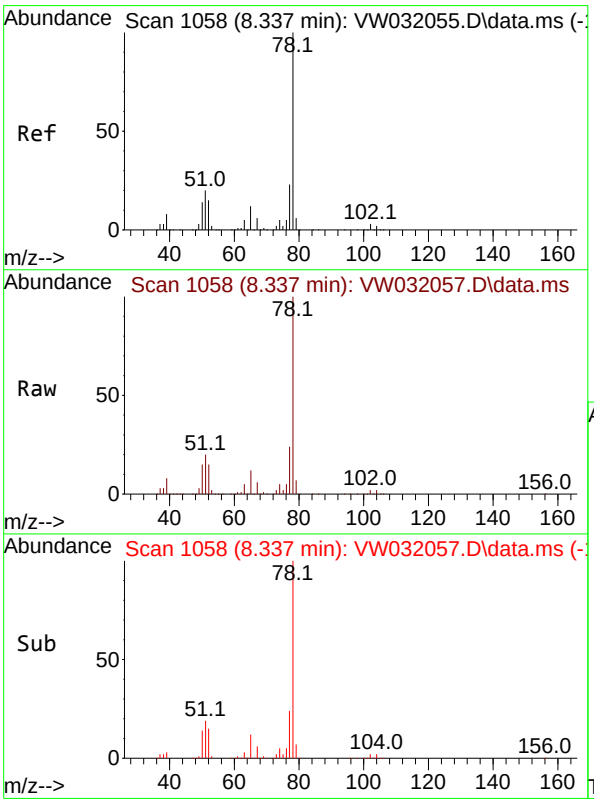
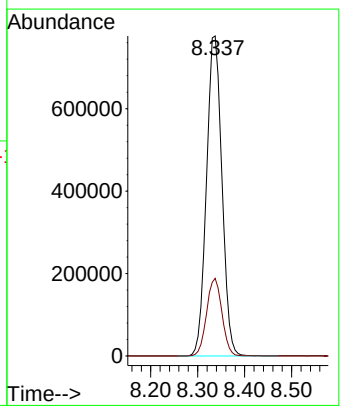
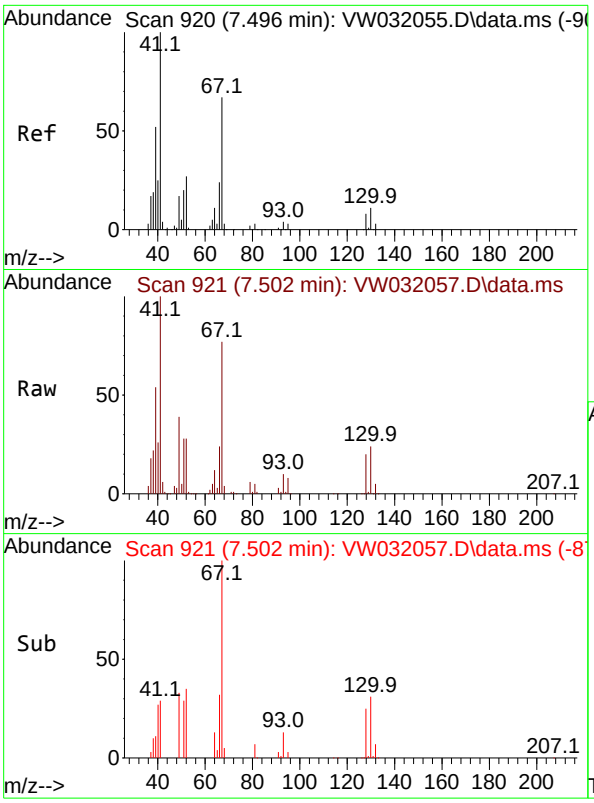


#40
Benzene
Concen: 148.159 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 78 Resp: 1770706

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.4	27.6

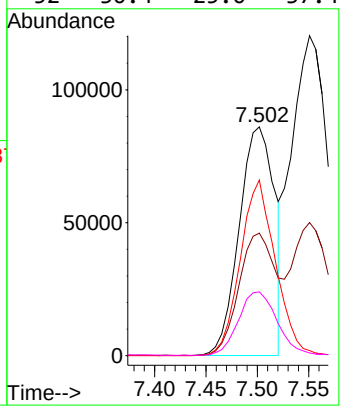




#41
Methacrylonitrile
Concen: 160.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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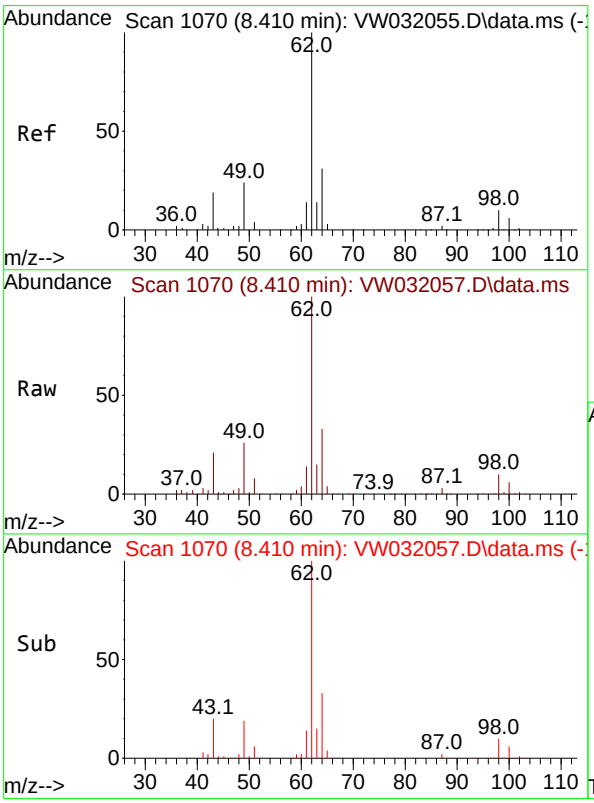
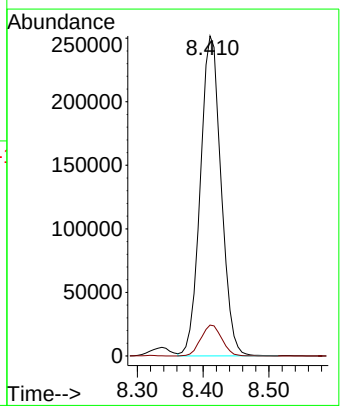
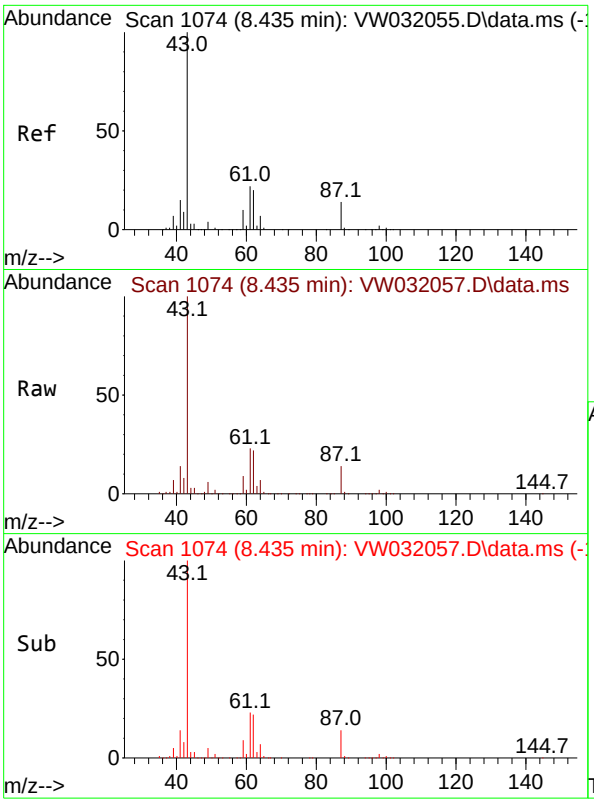


#42
1,2-Dichloroethane
Concen: 144.388 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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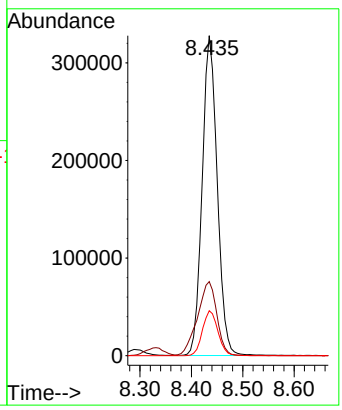
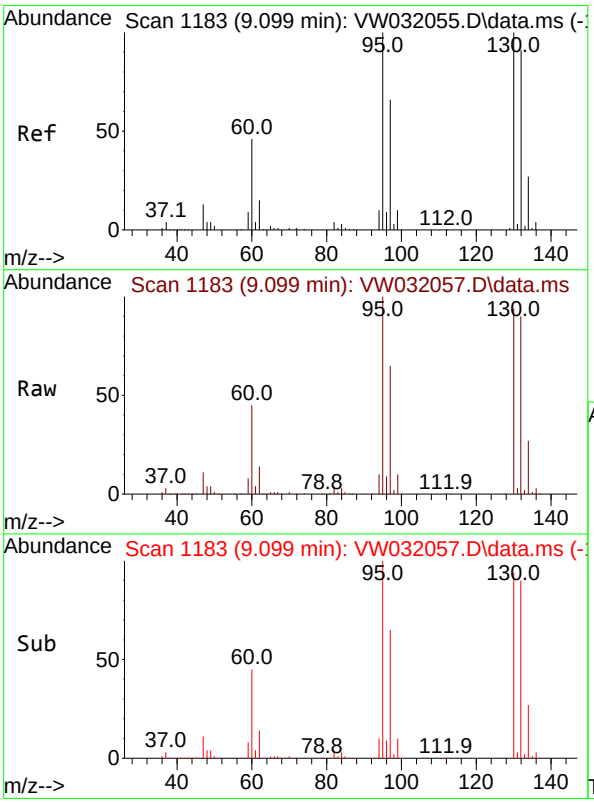
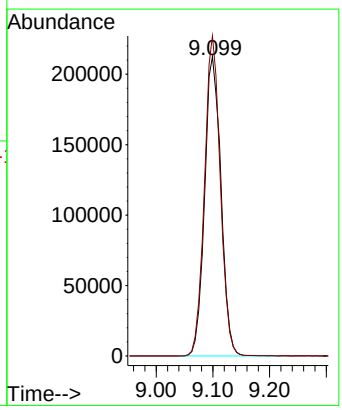


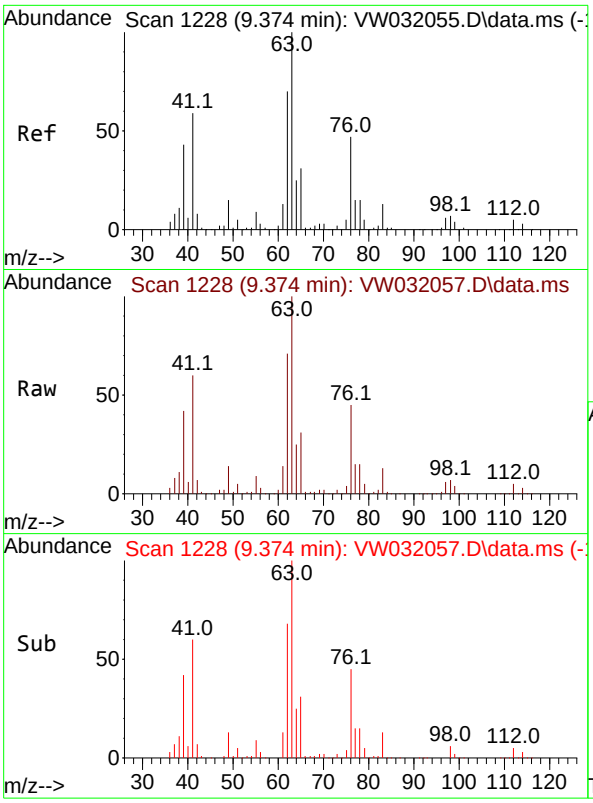


#44
Trichloroethene
Concen: 149.281 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:130 Resp: 424873

Ion	Ratio	Lower	Upper
130	100		
95	106.9	0.0	200.6

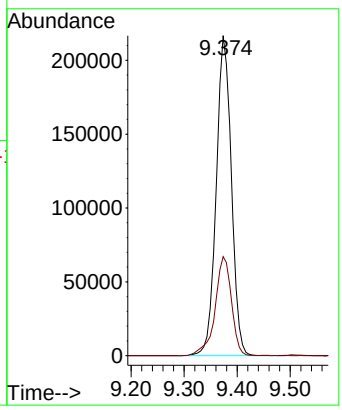




#45
1,2-Dichloropropane
Concen: 148.679 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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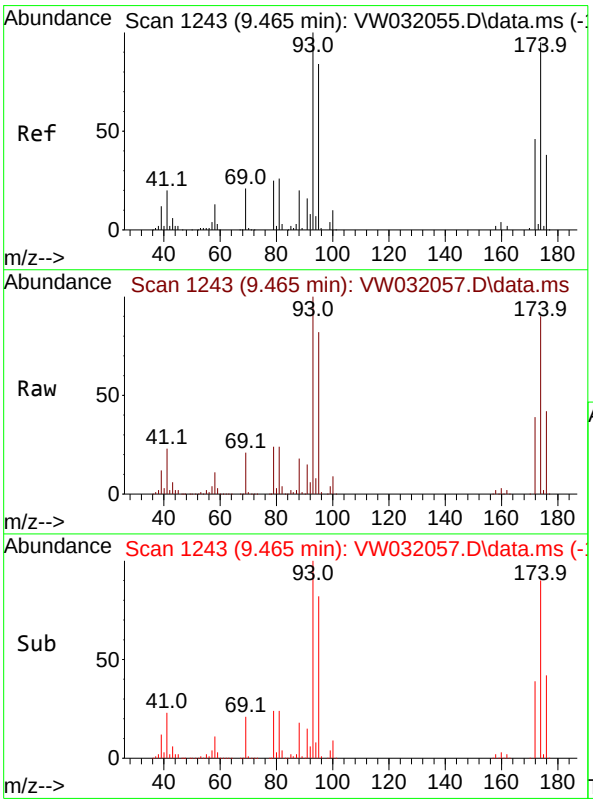
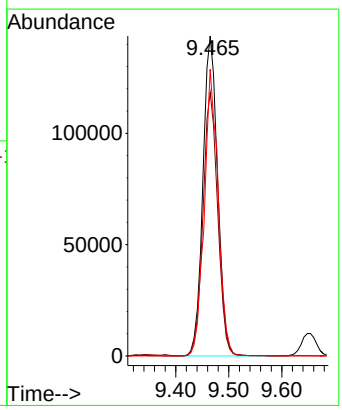
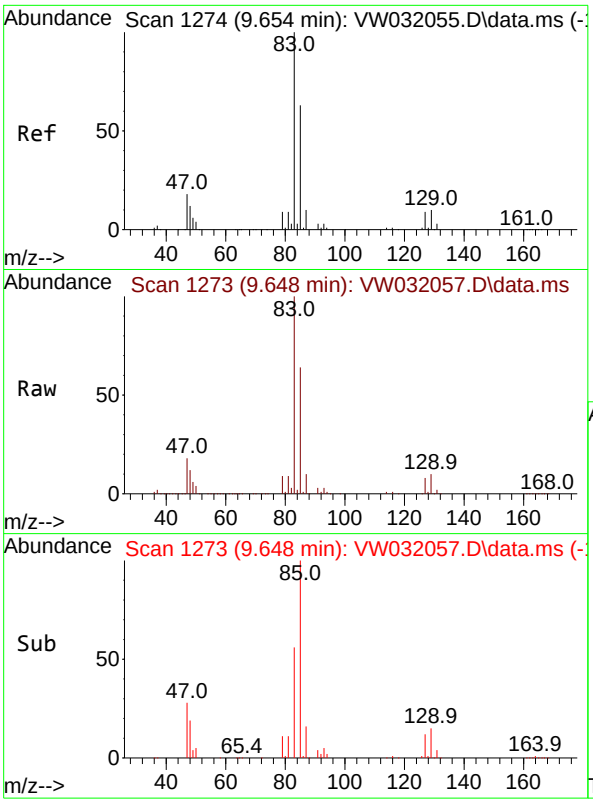


#46
Dibromomethane
Concen: 148.678 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

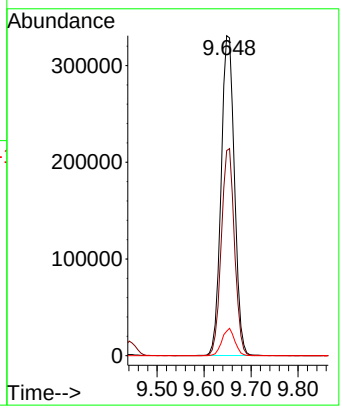




#47
Bromodichloromethane
Concen: 152.185 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 :
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ClientSampleId :
VSTDICC150

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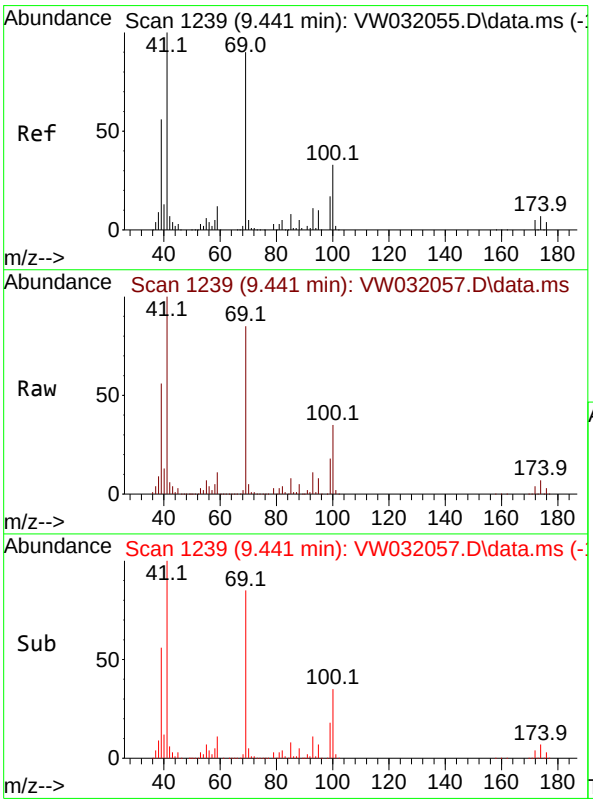
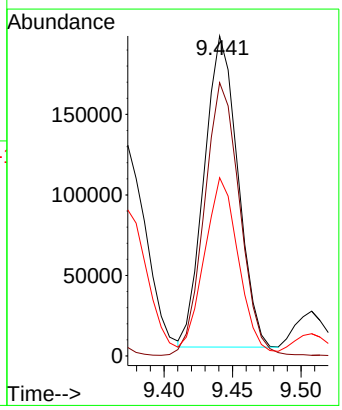
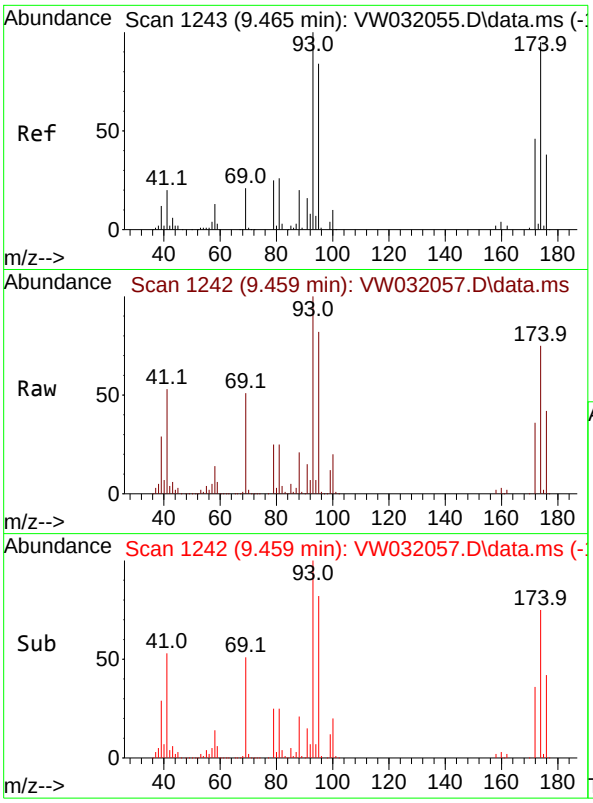


#48
Methyl methacrylate
Concen: 164.326 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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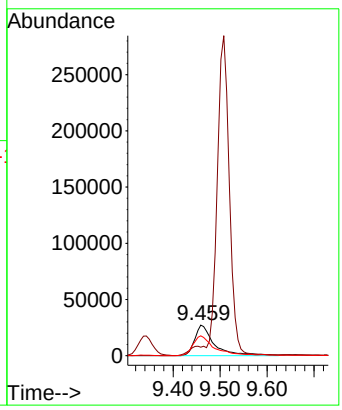
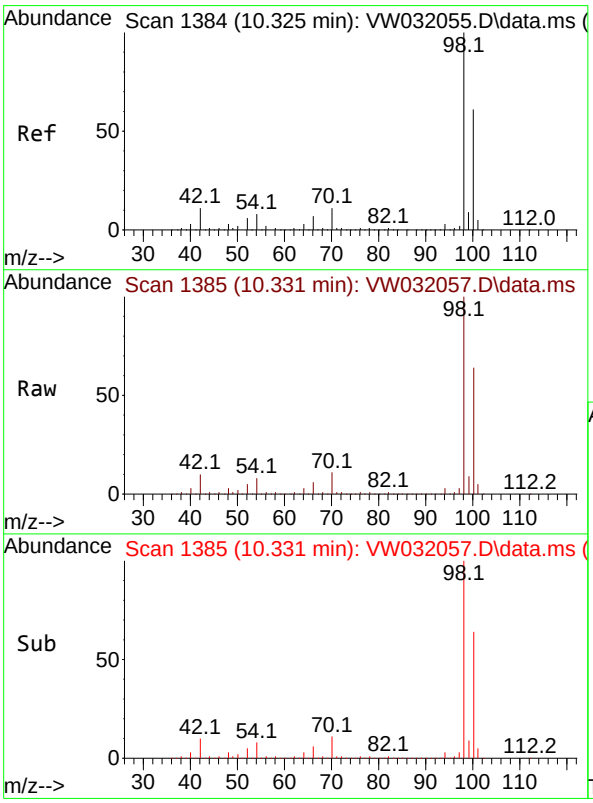
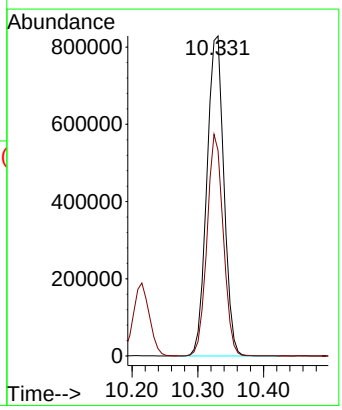


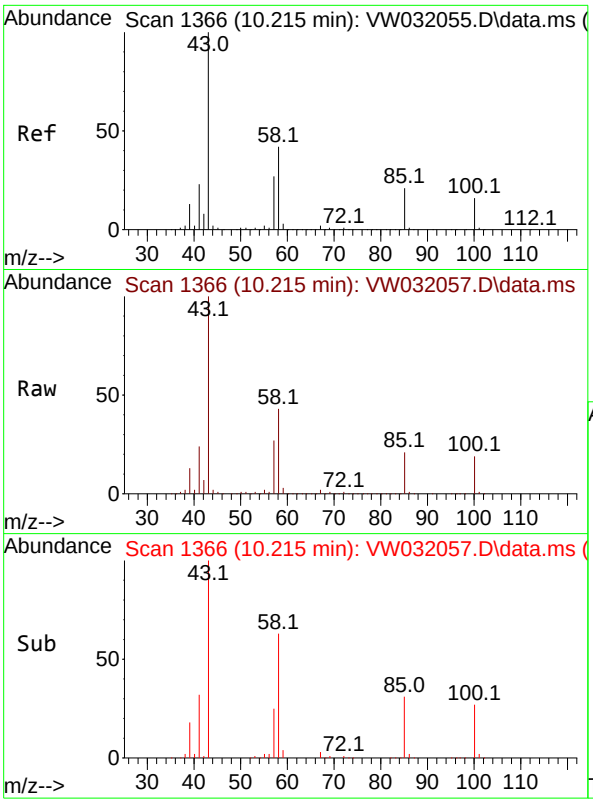


#50
Toluene-d8
Concen: 147.908 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 98 Resp: 1492050

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.1	76.7

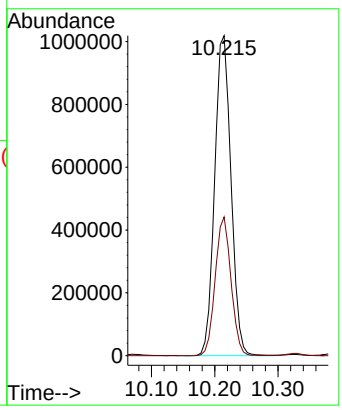




#51
4-Methyl-2-Pentanone
Concen: 772.800 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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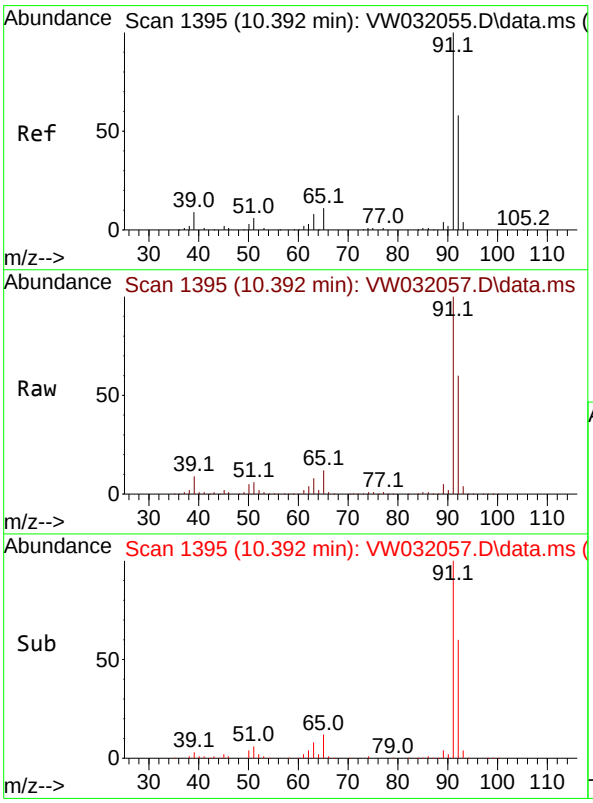
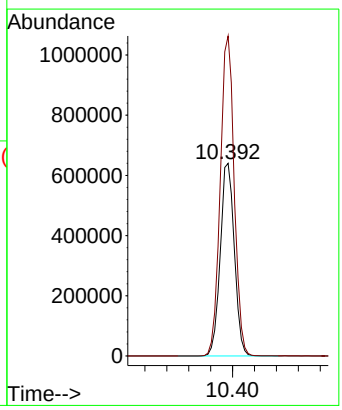
Supervised By :Semsettin Yesilyurt 08/12/2025

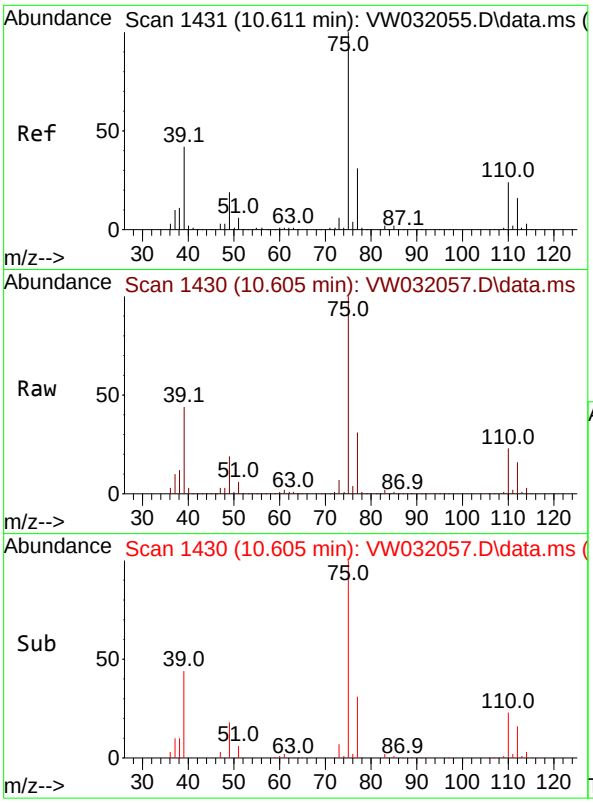


#52
Toluene
Concen: 151.812 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 92 Resp: 1142813

Ion	Ratio	Lower	Upper
92	100		
91	164.7	136.3	204.5

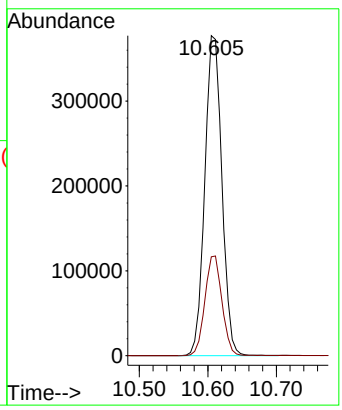




#53
t-1,3-Dichloropropene
Concen: 162.760 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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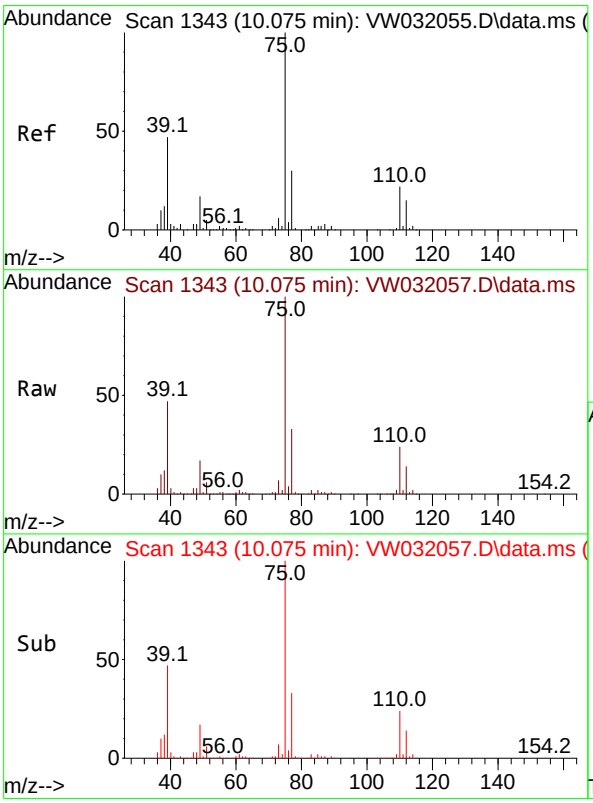
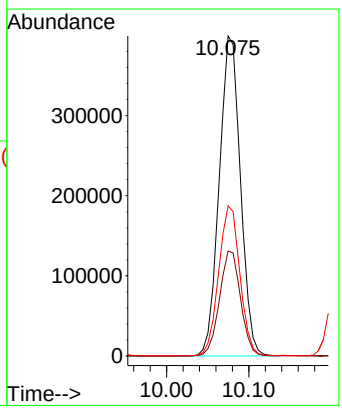
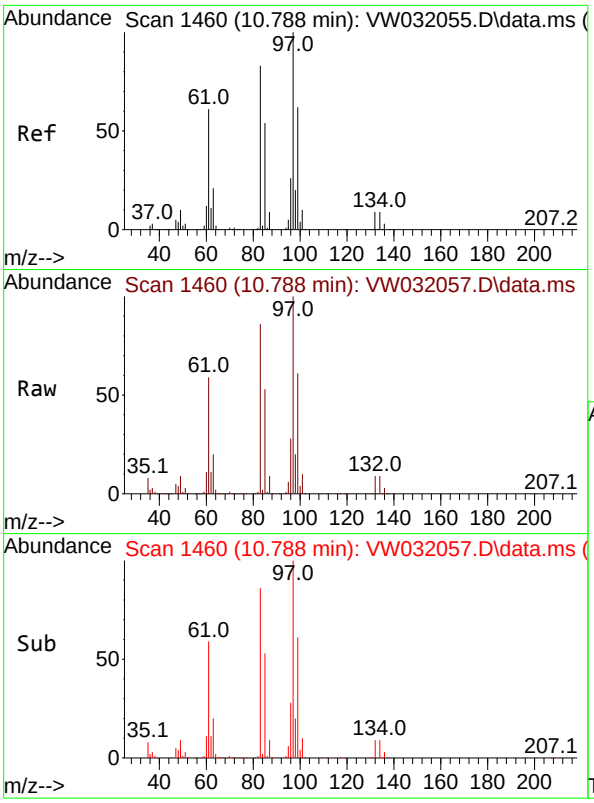


#54
cis-1,3-Dichloropropene
Concen: 157.011 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

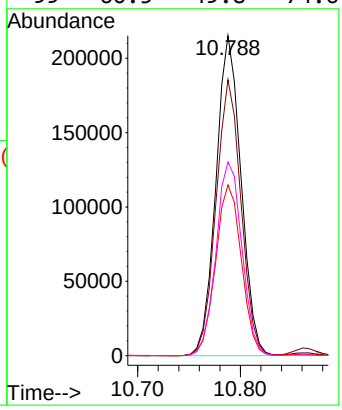




#55
1,1,2-Trichloroethane
Concen: 147.271 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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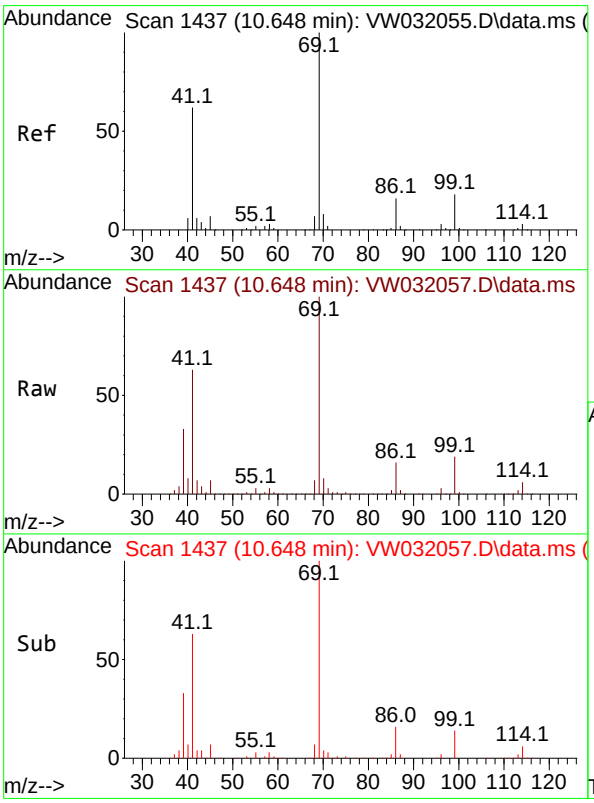
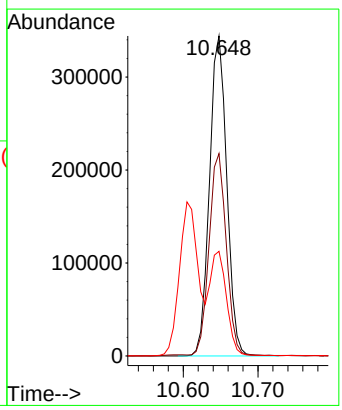
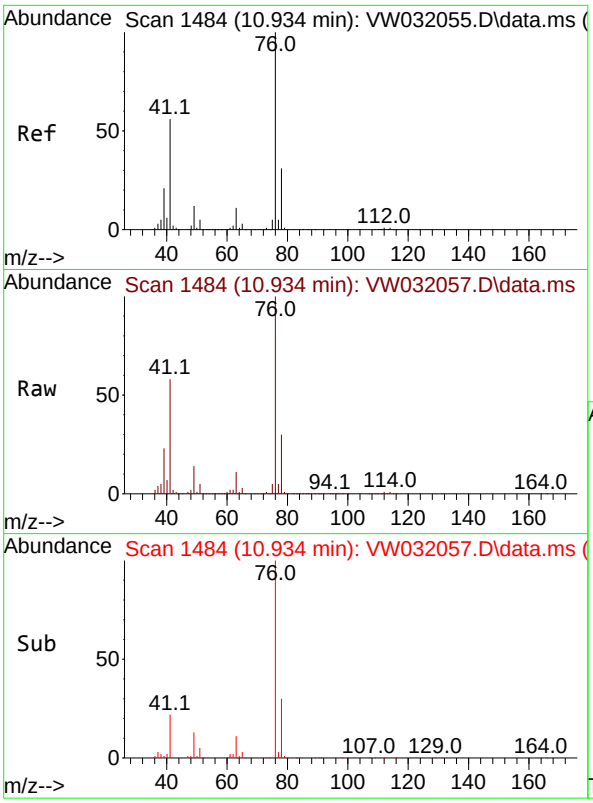


#56
Ethyl methacrylate
Concen: 166.963 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

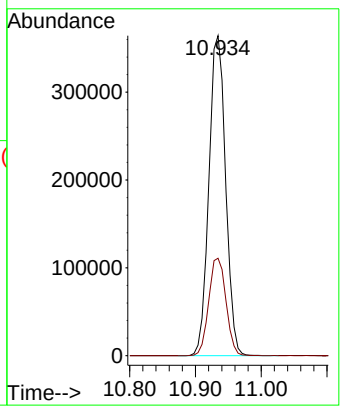




#57
1,3-Dichloropropane
Concen: 149.298 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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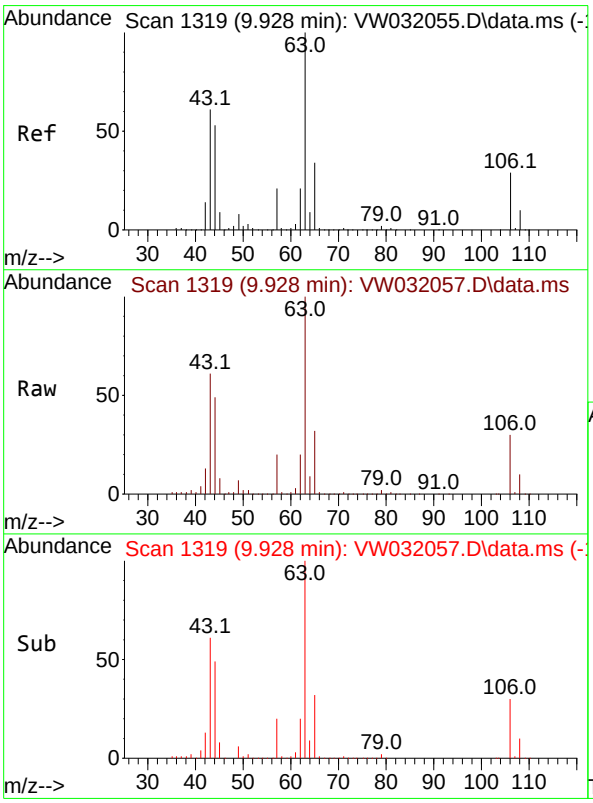
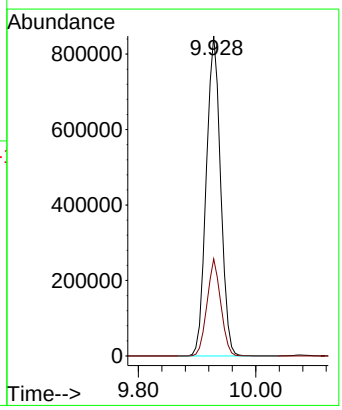
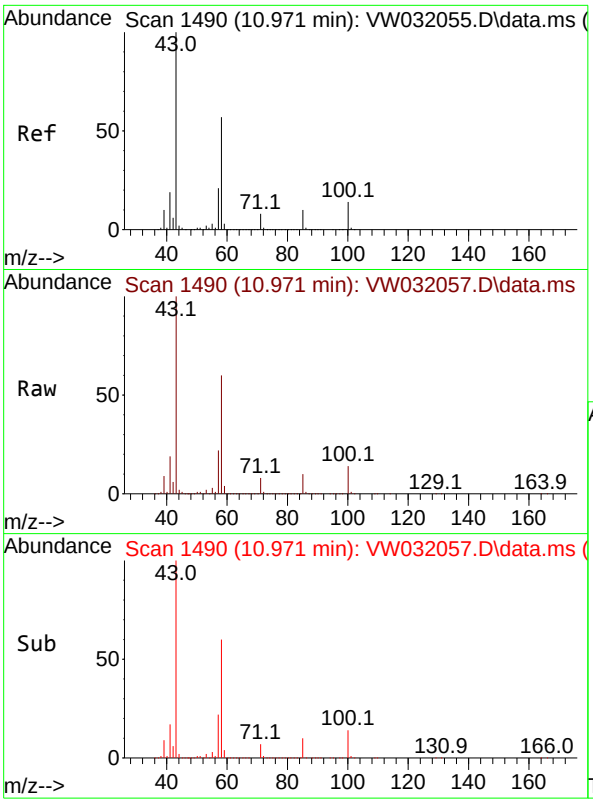


#58
2-Chloroethyl Vinyl ether
Concen: 784.377 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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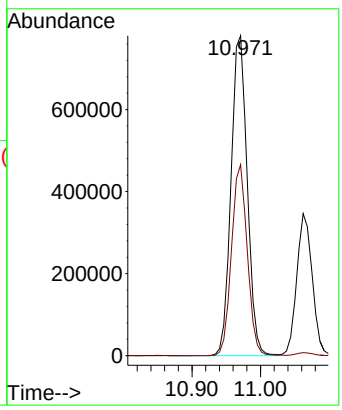
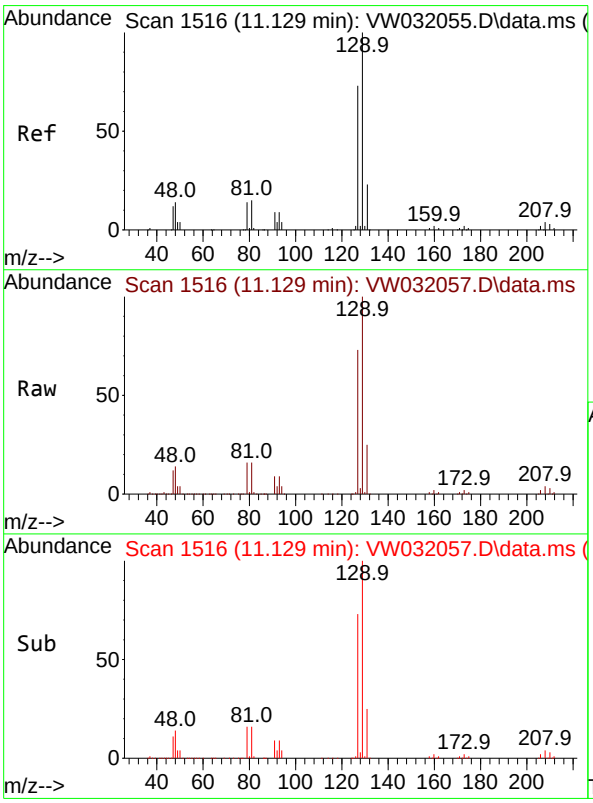
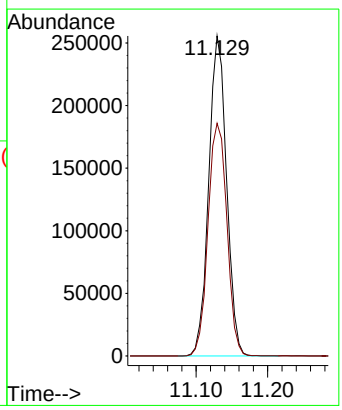


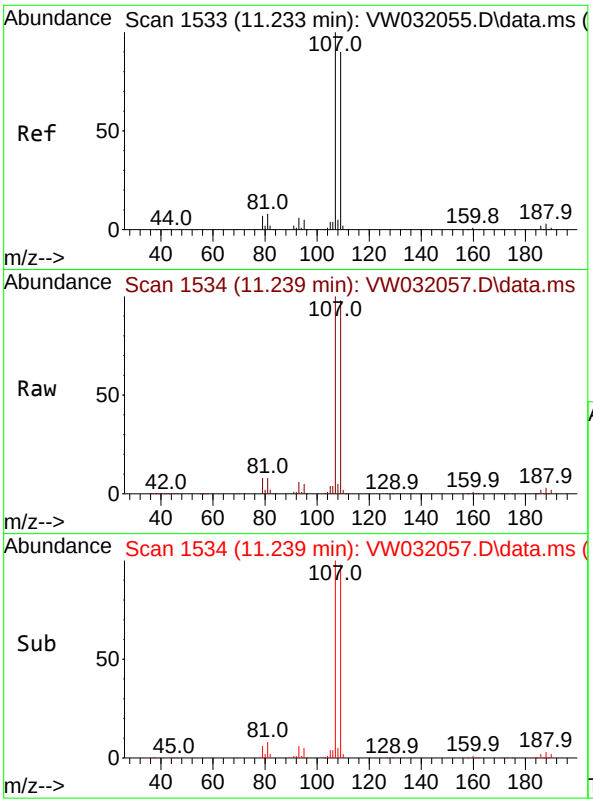


#60
Dibromochloromethane
Concen: 156.387 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:129 Resp: 442362

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.0	116.9

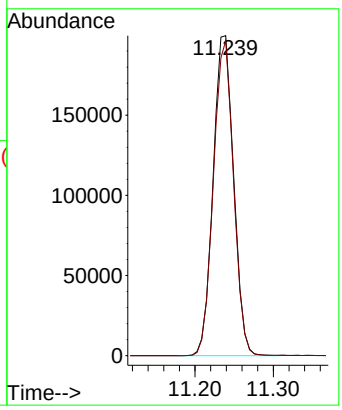




#61
1,2-Dibromoethane
Concen: 150.929 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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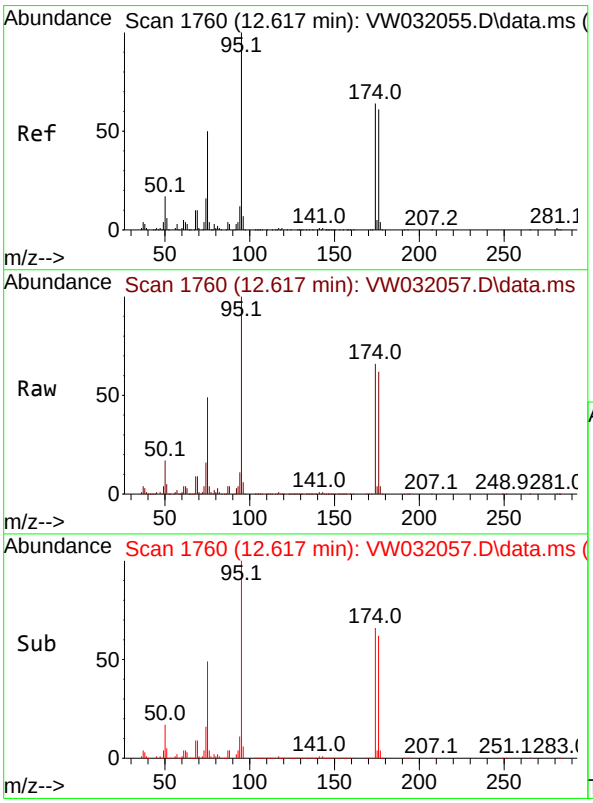
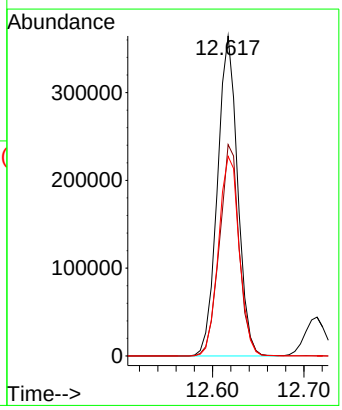
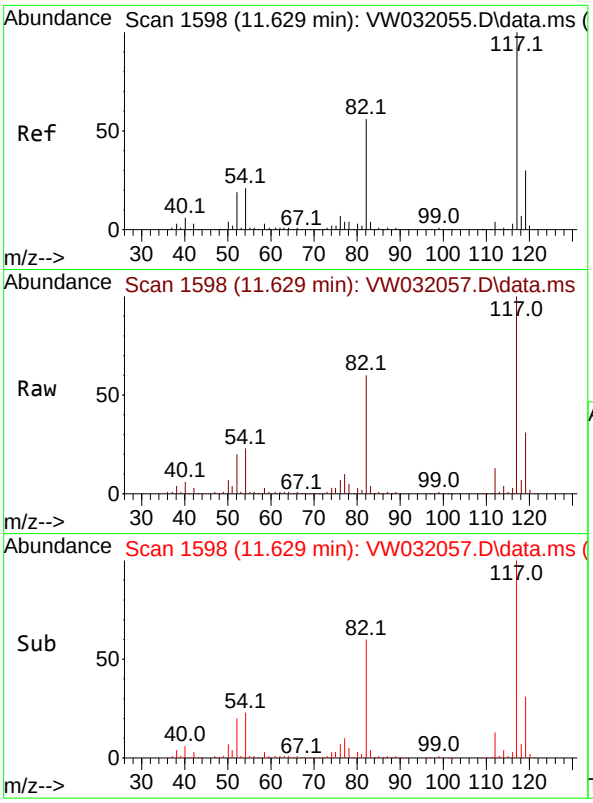


#62
4-Bromofluorobenzene
Concen: 150.185 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

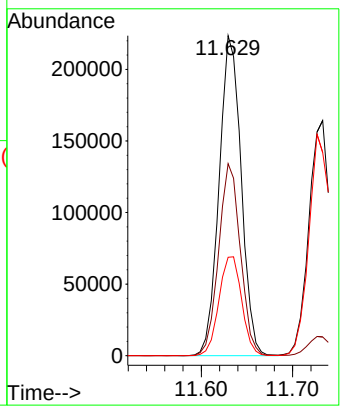




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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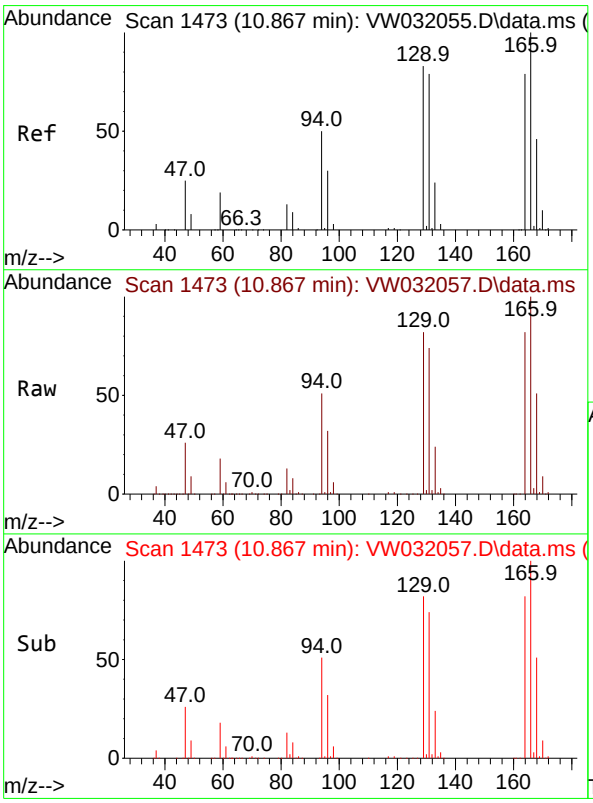
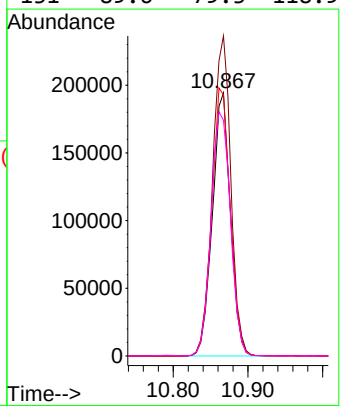
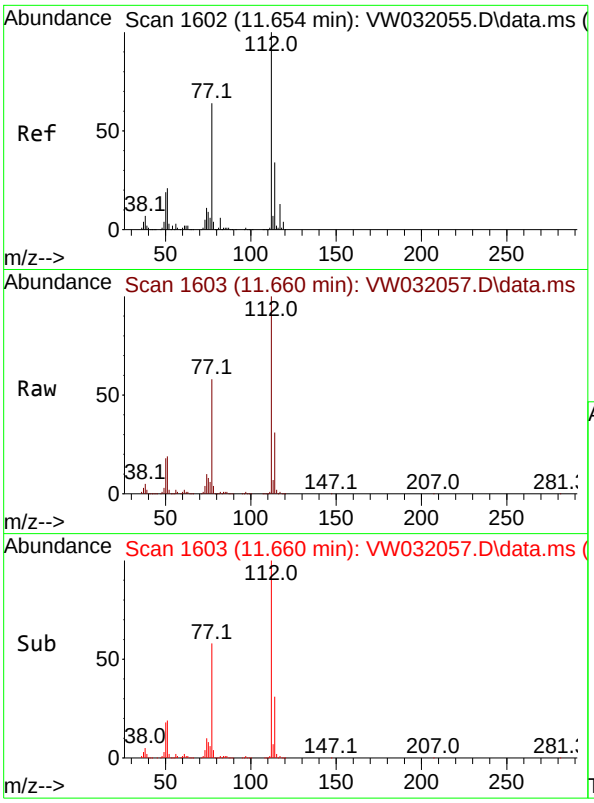


#64
Tetrachloroethene
Concen: 150.622 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

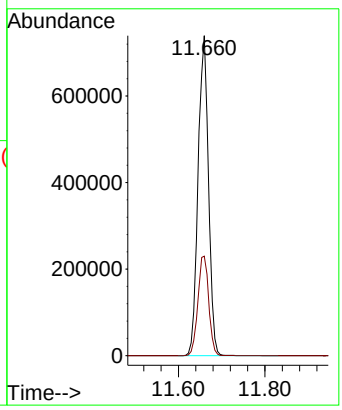




#65
Chlorobenzene
Concen: 150.609 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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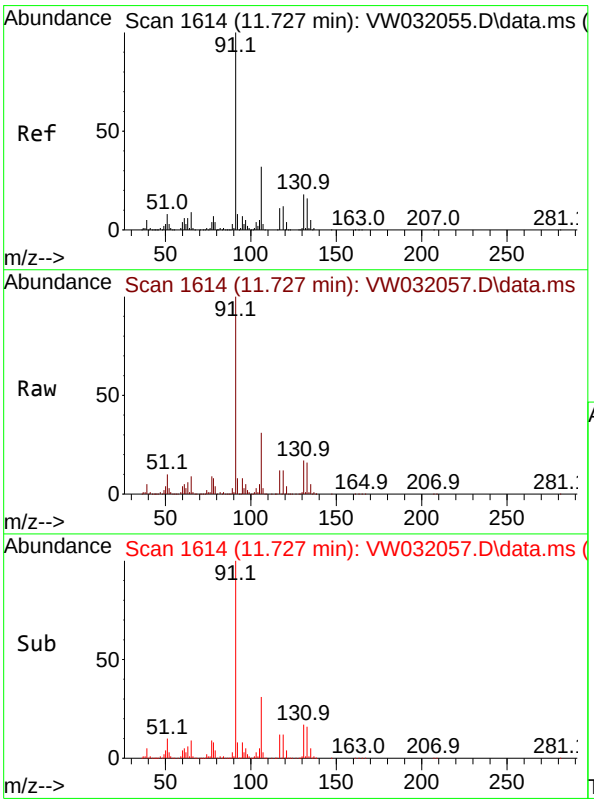
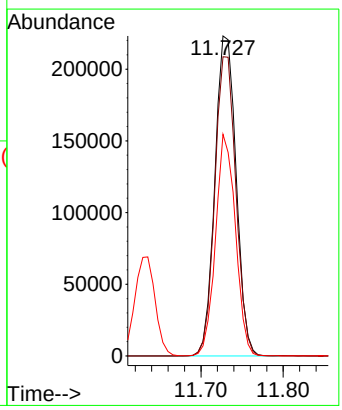
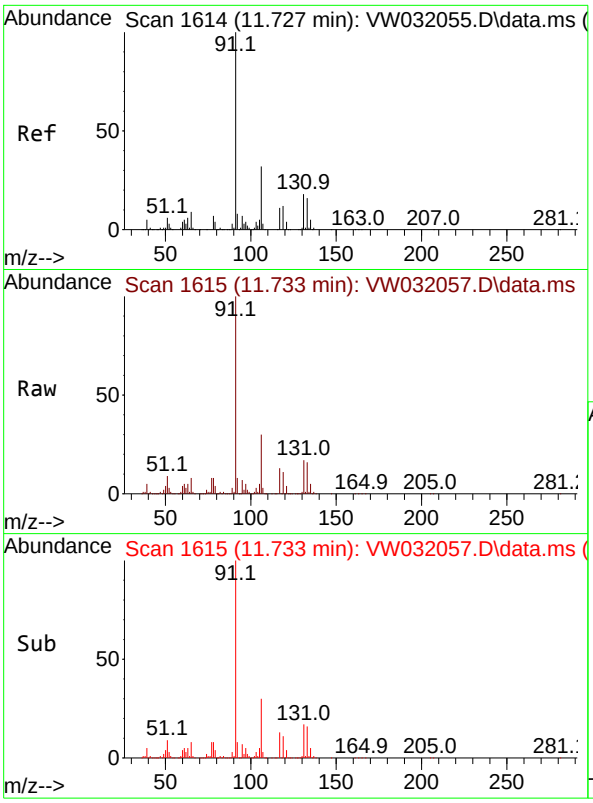


#66
1,1,1,2-Tetrachloroethane
Concen: 157.017 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

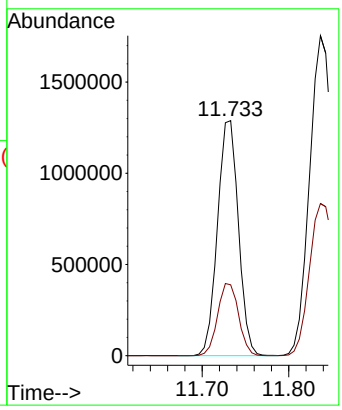




#67
Ethyl Benzene
Concen: 156.328 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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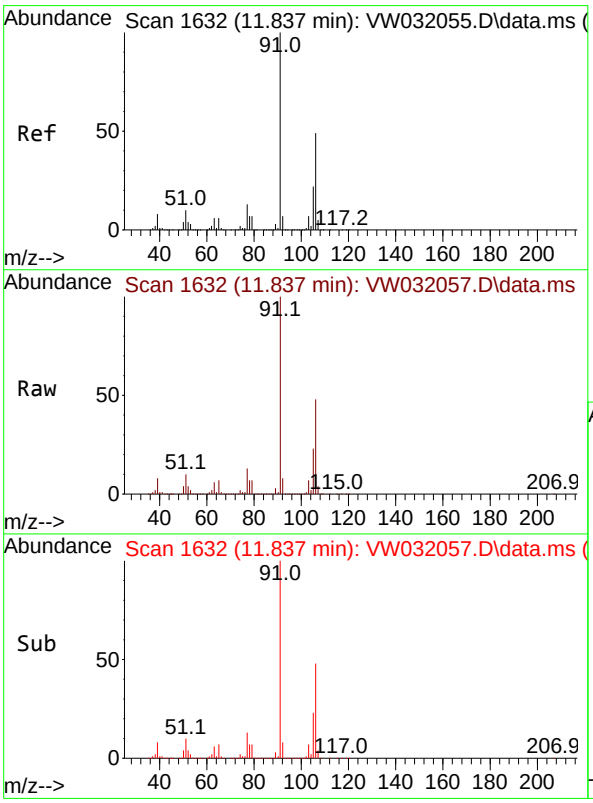
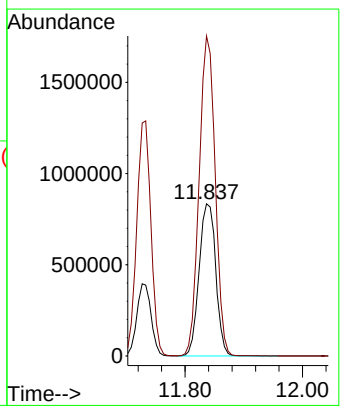
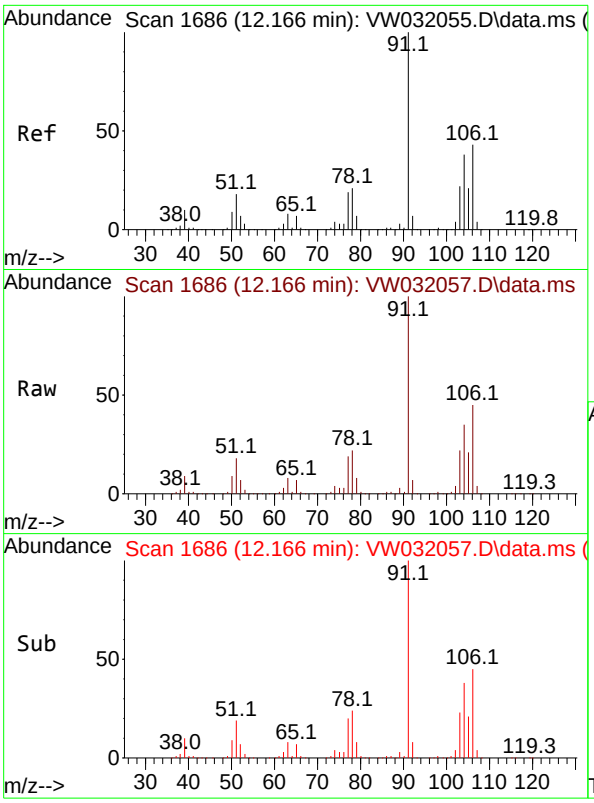


#68
m/p-Xylenes
Concen: 307.801 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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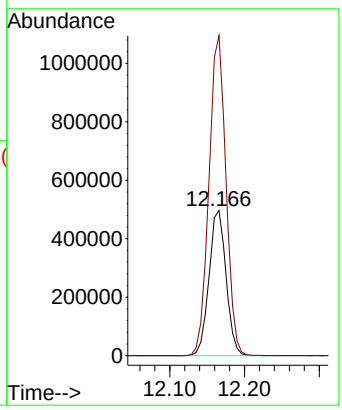
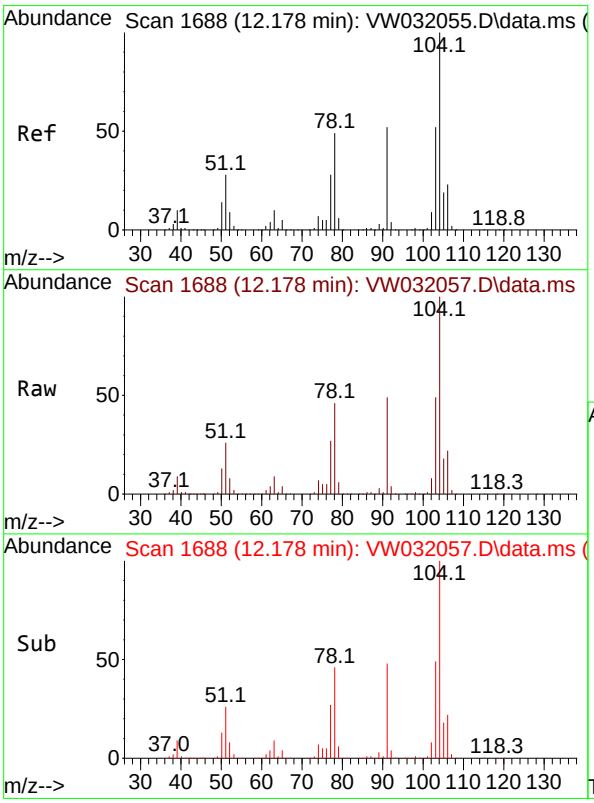
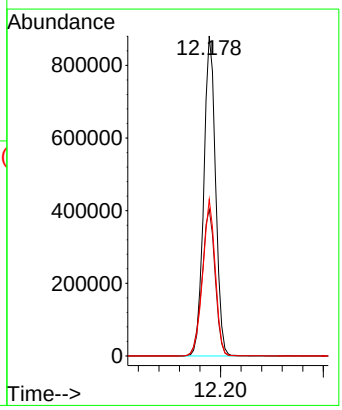


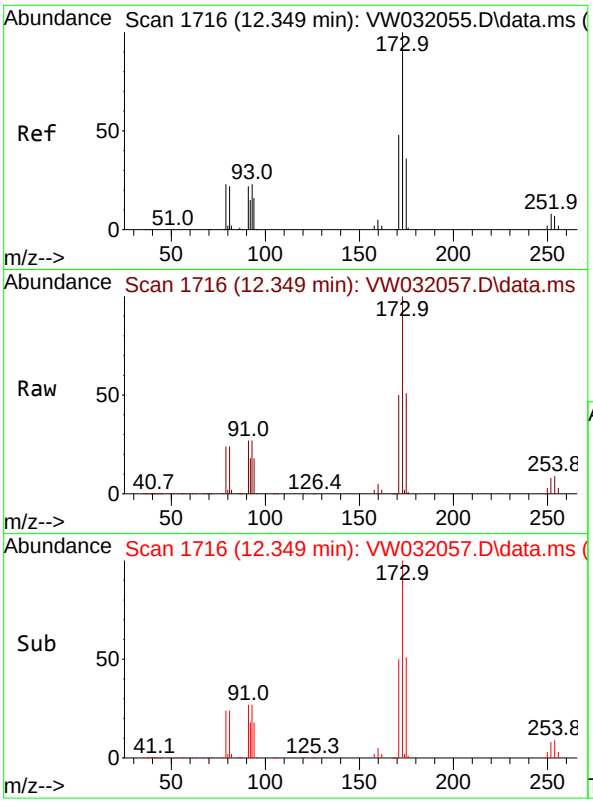


#70
Styrene
Concen: 160.482 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

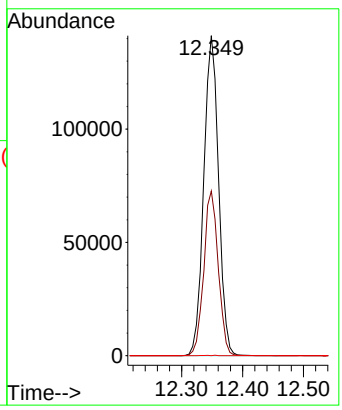




#71
Bromoform
Concen: 163.720 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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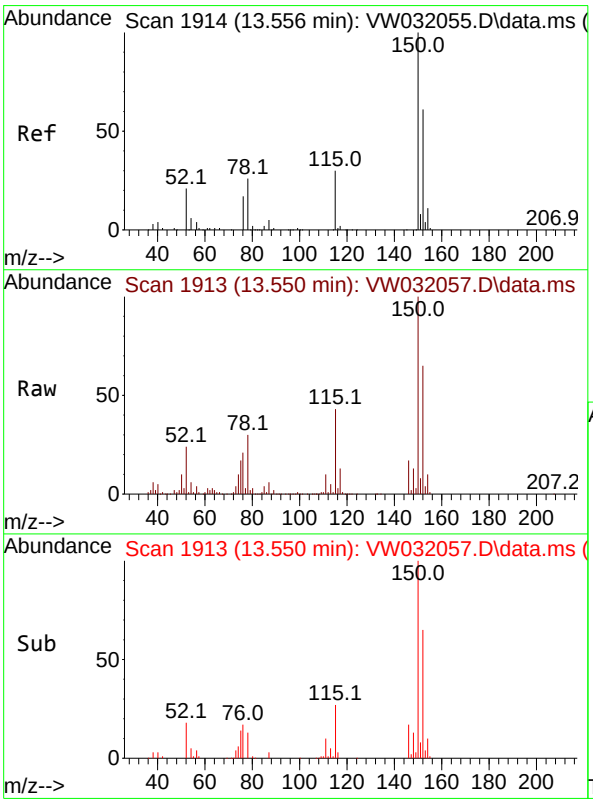
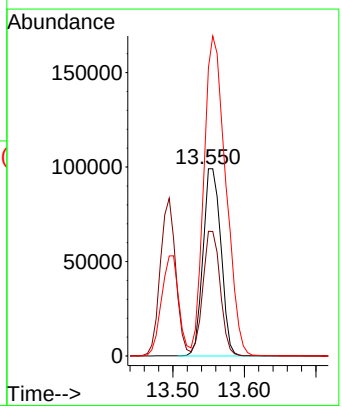
Supervised By :Semsettin Yesilyurt 08/12/2025

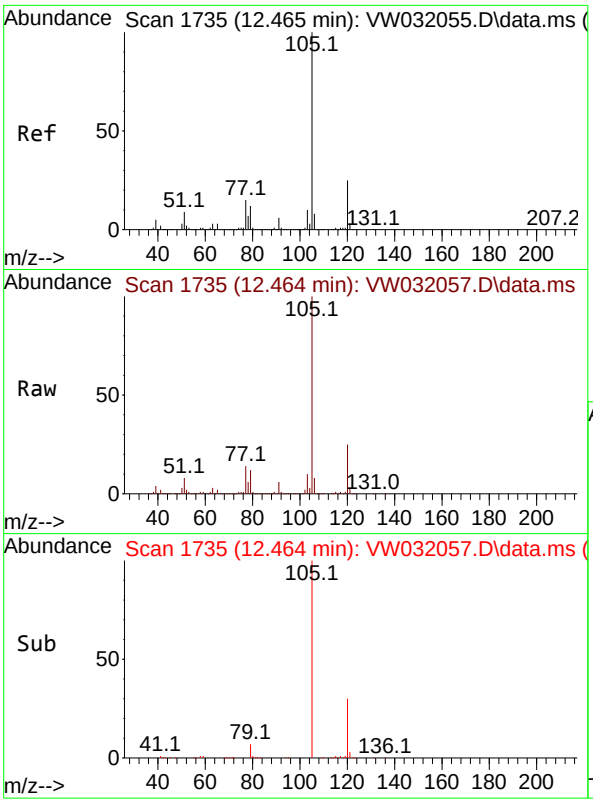


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

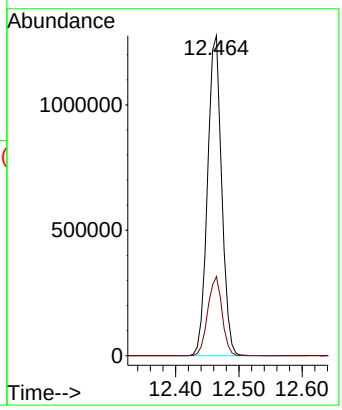




#73
Isopropylbenzene
Concen: 164.188 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 197728

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4



Instrument :
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ClientSampleId :
VSTDICC150

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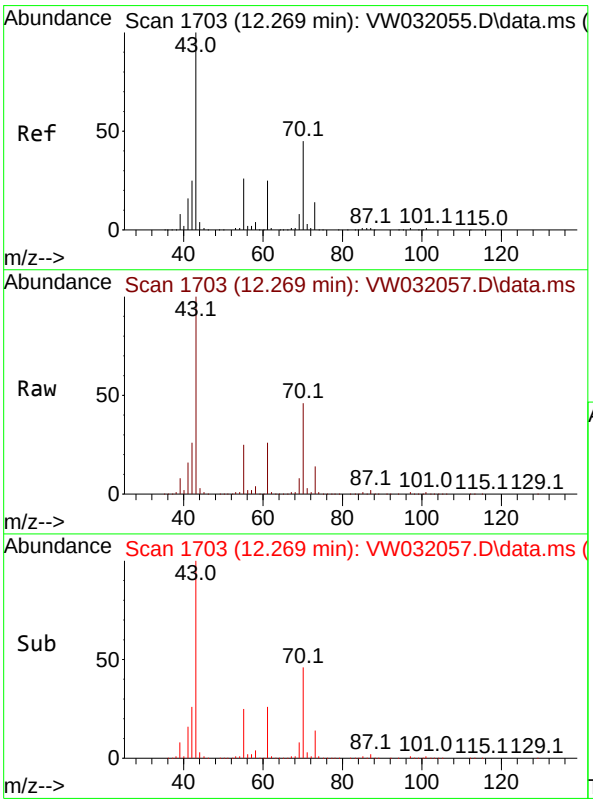
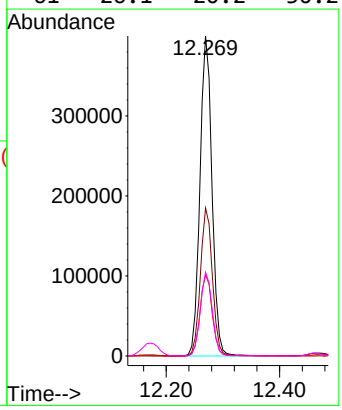
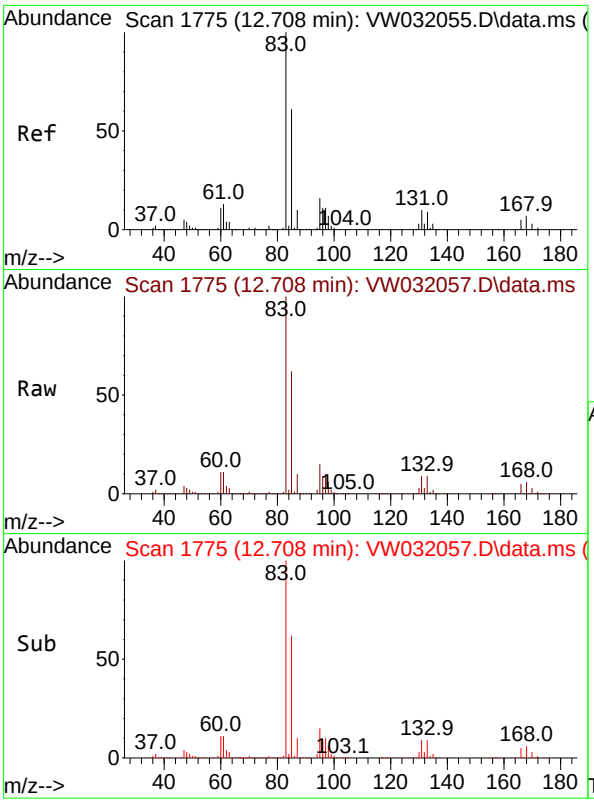


#74
N-amyl acetate
Concen: 170.556 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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 :
VSTDICC150

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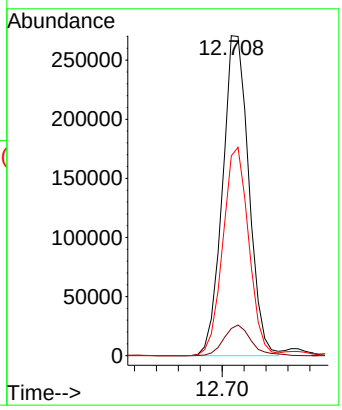
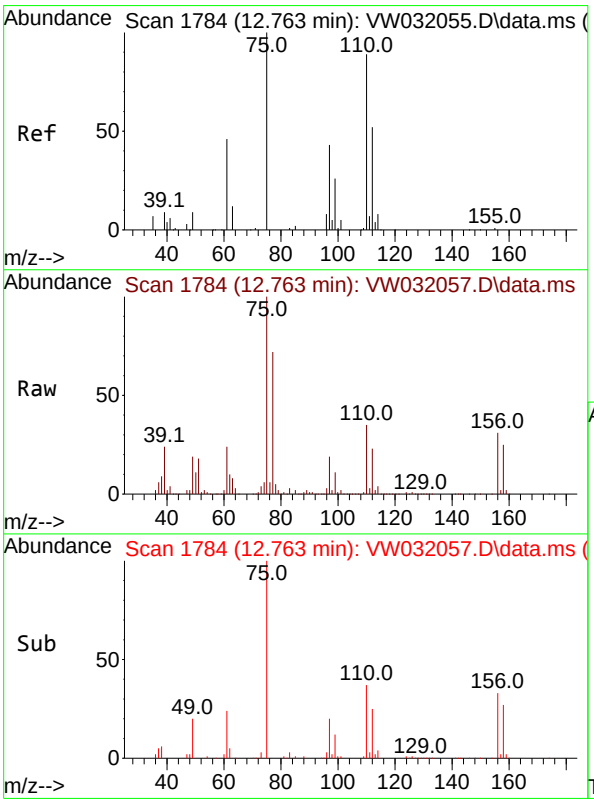
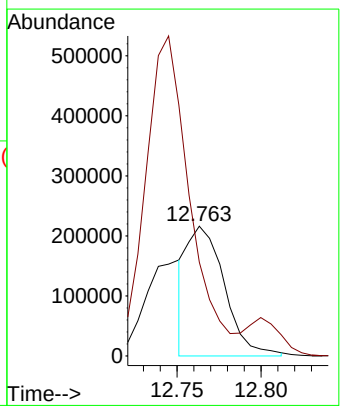


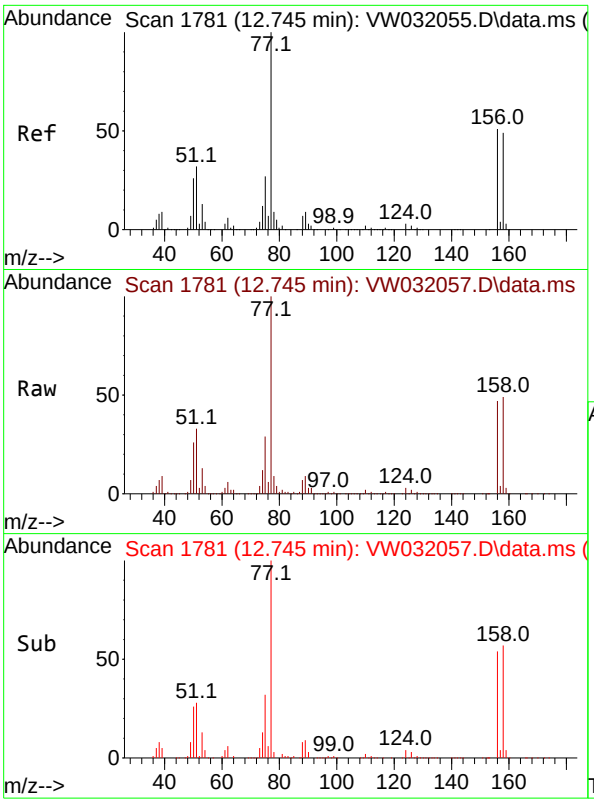


#76
1,2,3-Trichloropropane
Concen: 126.378 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 334775

Ion	Ratio	Lower	Upper
75	100		
77	290.3	123.5	370.5

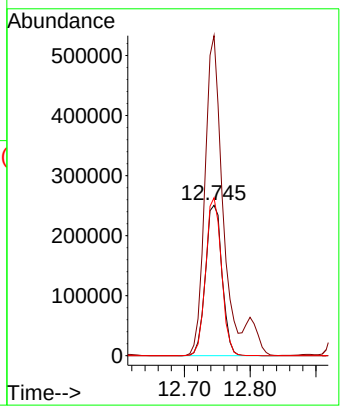




#77
Bromobenzene
Concen: 153.167 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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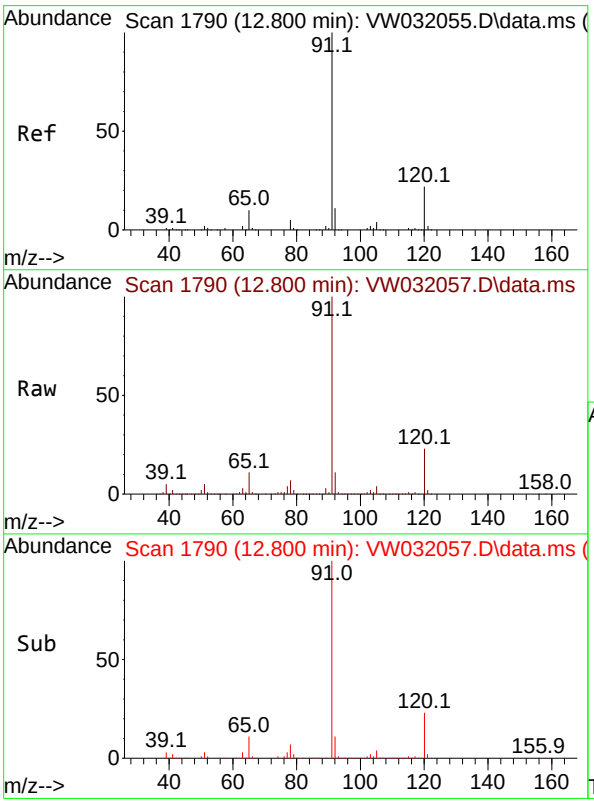
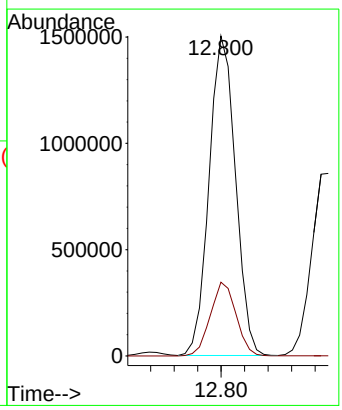
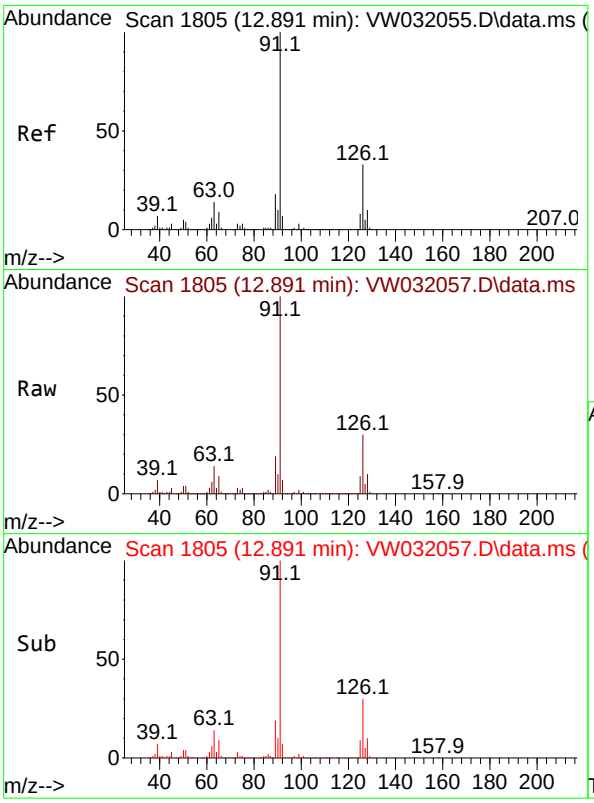


#78
n-propylbenzene
Concen: 158.253 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 2346333

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3

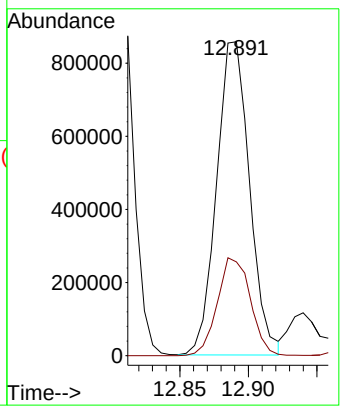




#79
2-Chlorotoluene
Concen: 156.820 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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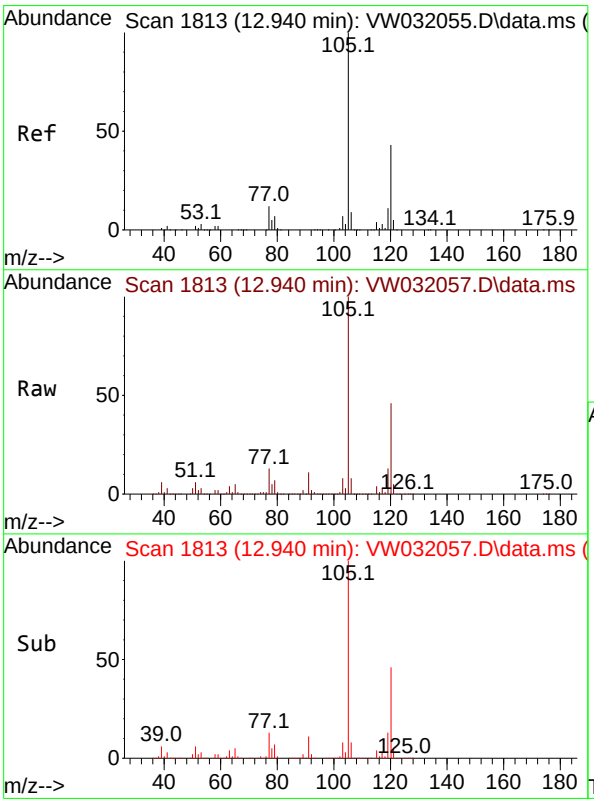
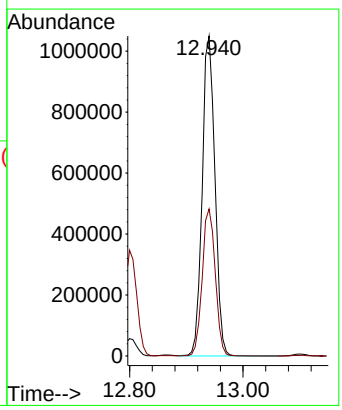
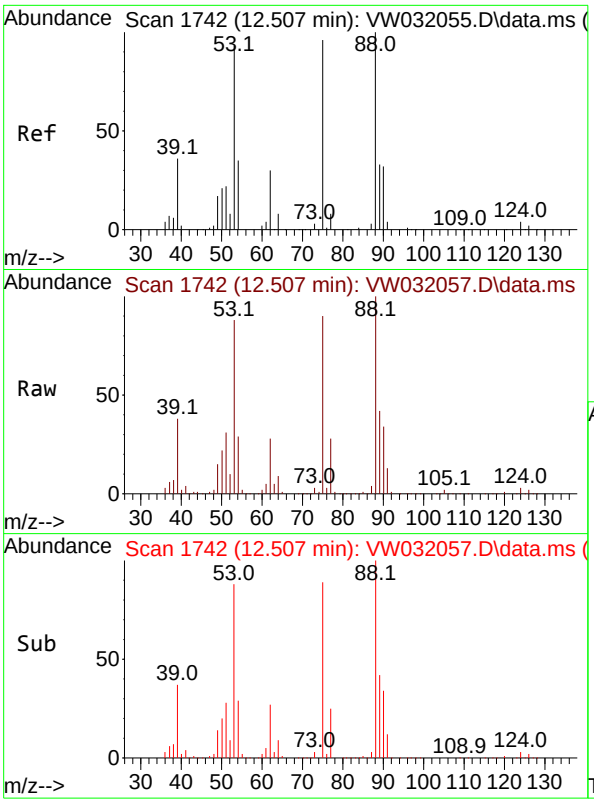


#80
1,3,5-Trimethylbenzene
Concen: 160.368 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1639597

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.4	70.0

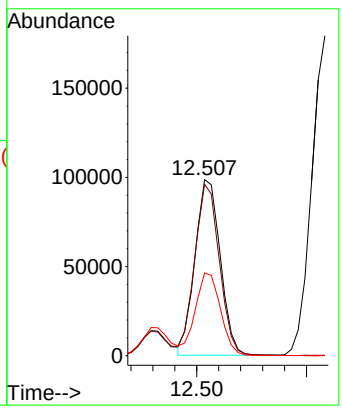




#81
trans-1,4-Dichloro-2-butene
Concen: 174.499 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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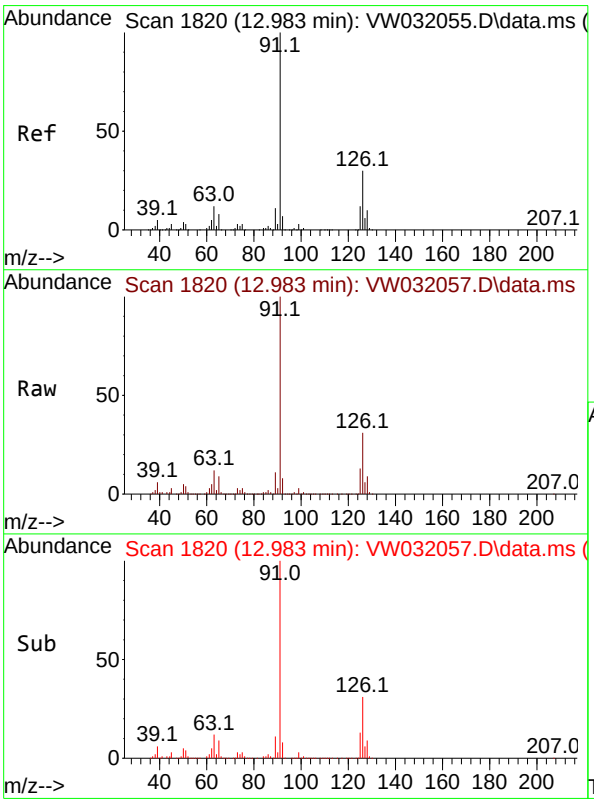
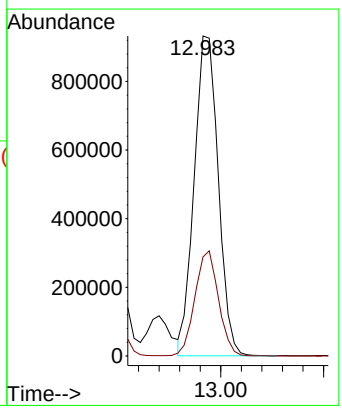
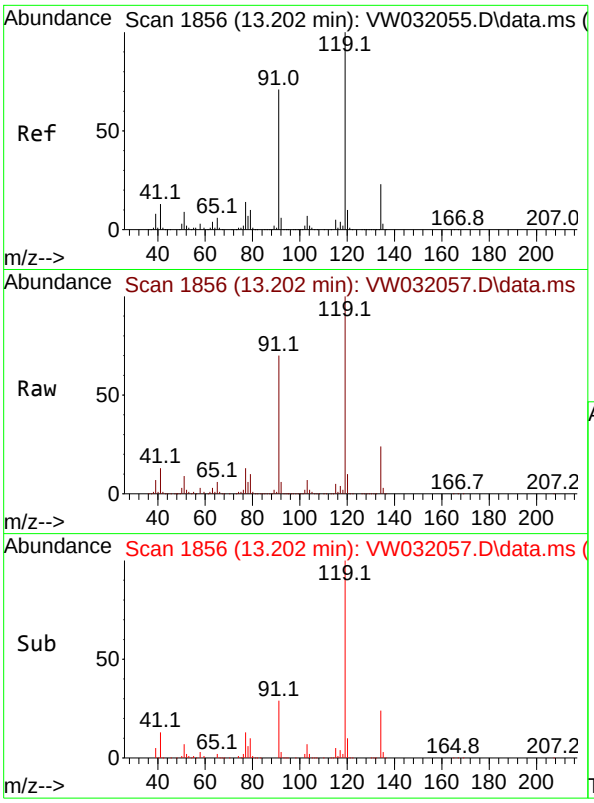


#82
4-Chlorotoluene
Concen: 155.863 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 1515300

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.5	46.5

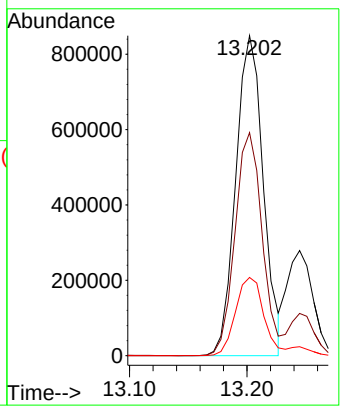




#83
tert-Butylbenzene
Concen: 163.006 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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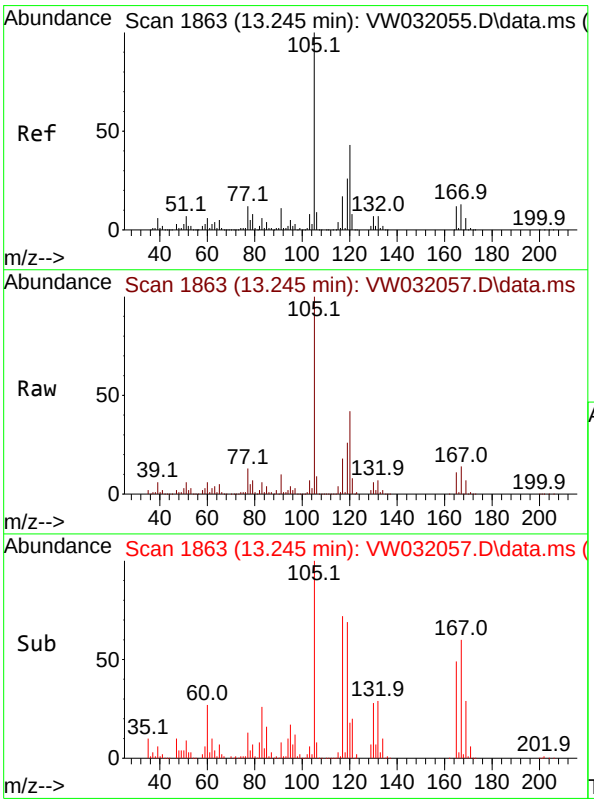
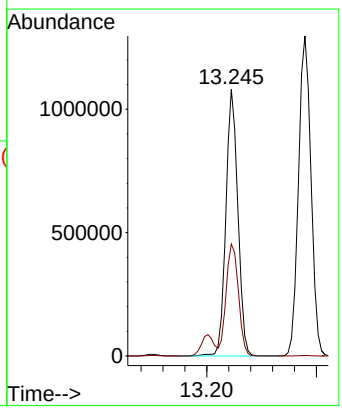
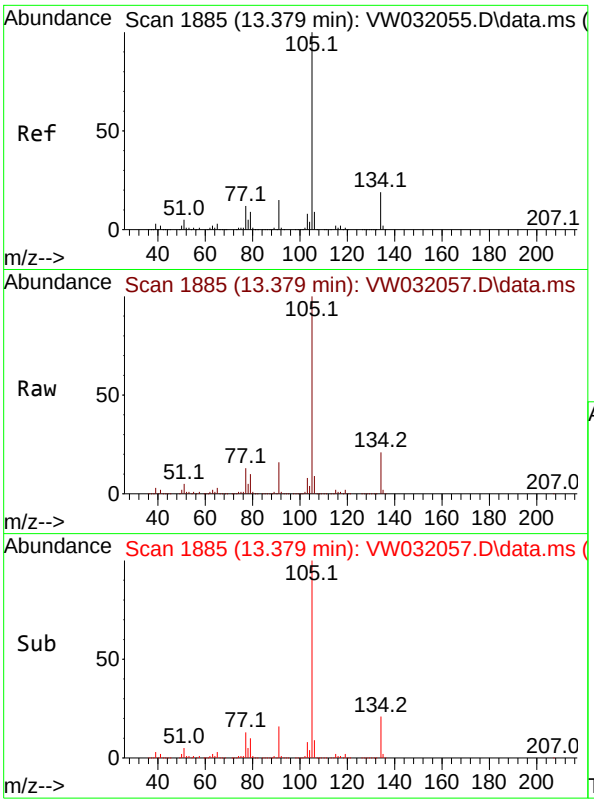


#84
1,2,4-Trimethylbenzene
Concen: 158.189 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1646381

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8

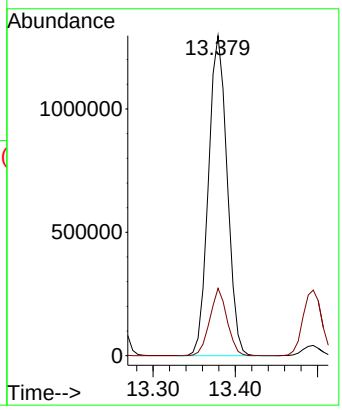




#85
sec-Butylbenzene
Concen: 159.625 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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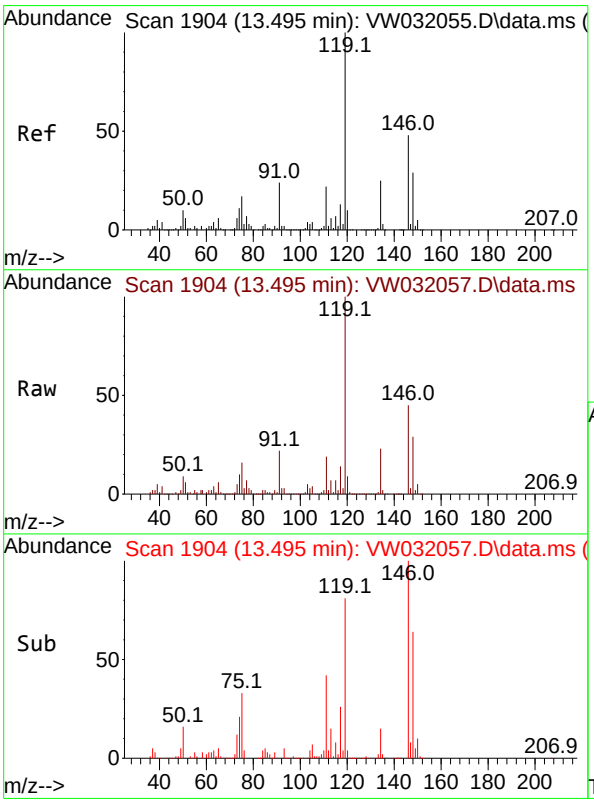
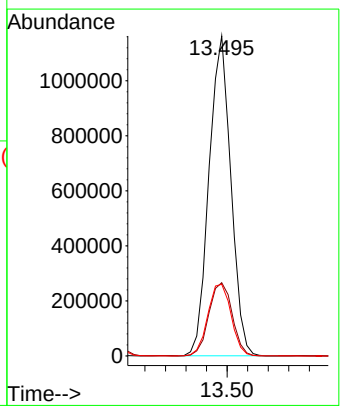
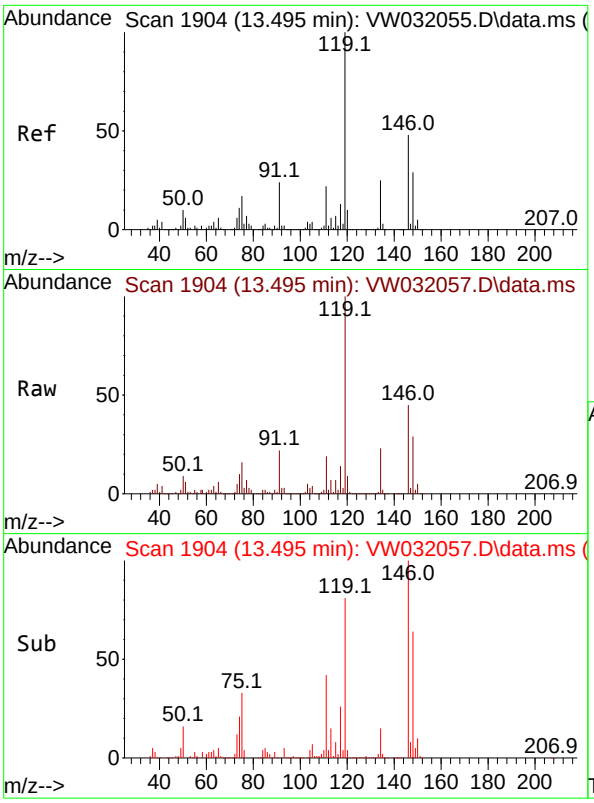


#86
p-Isopropyltoluene
Concen: 160.127 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

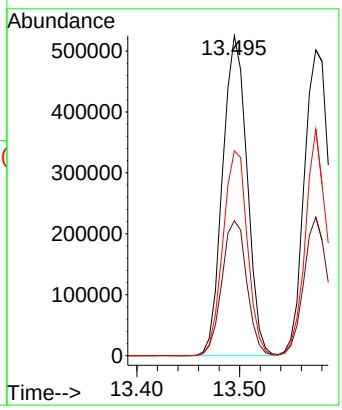




#87
1,3-Dichlorobenzene
Concen: 151.629 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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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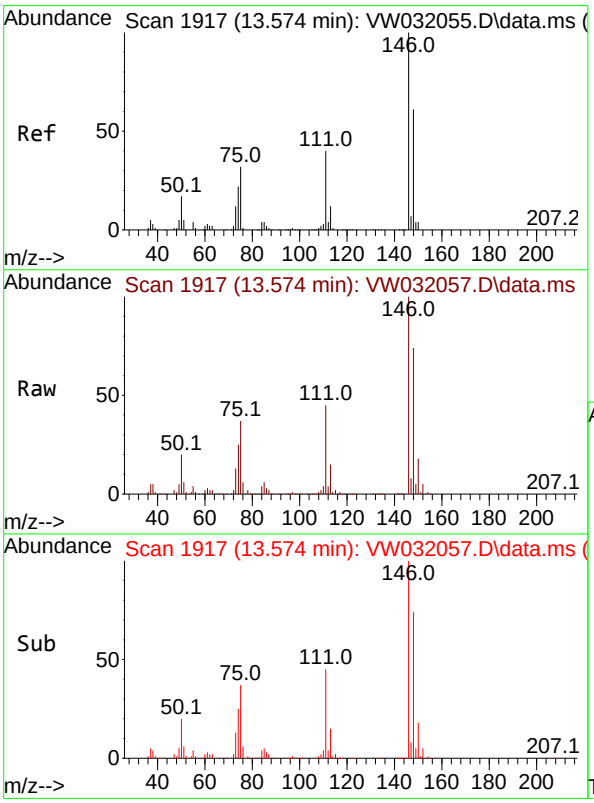
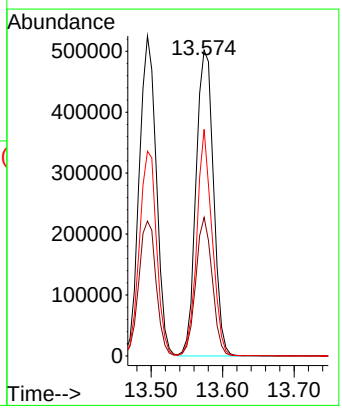
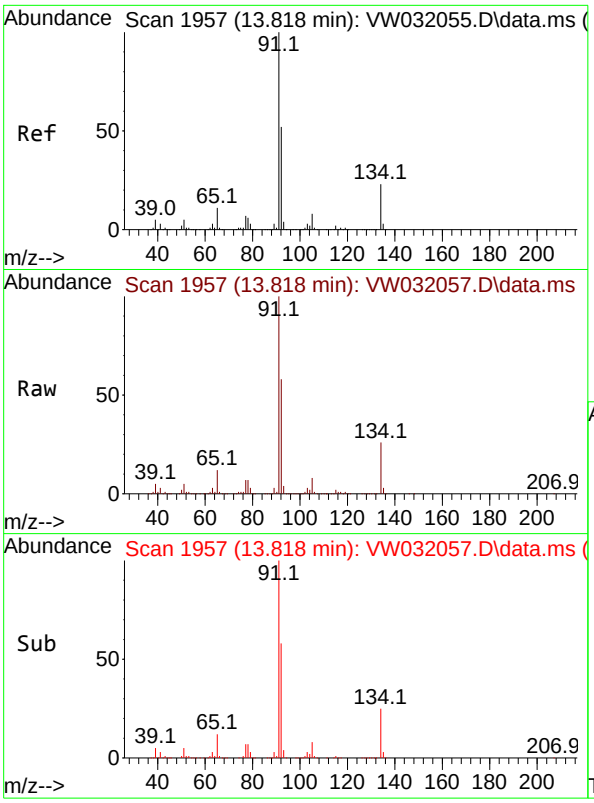


#88
1,4-Dichlorobenzene
Concen: 147.144 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

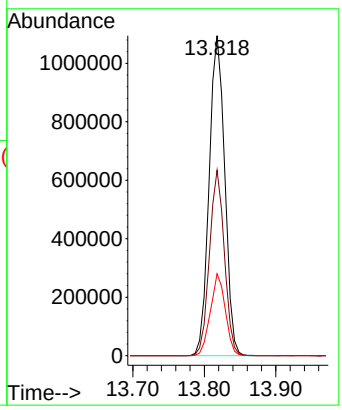




#89
n-Butylbenzene
Concen: 159.527 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 165749

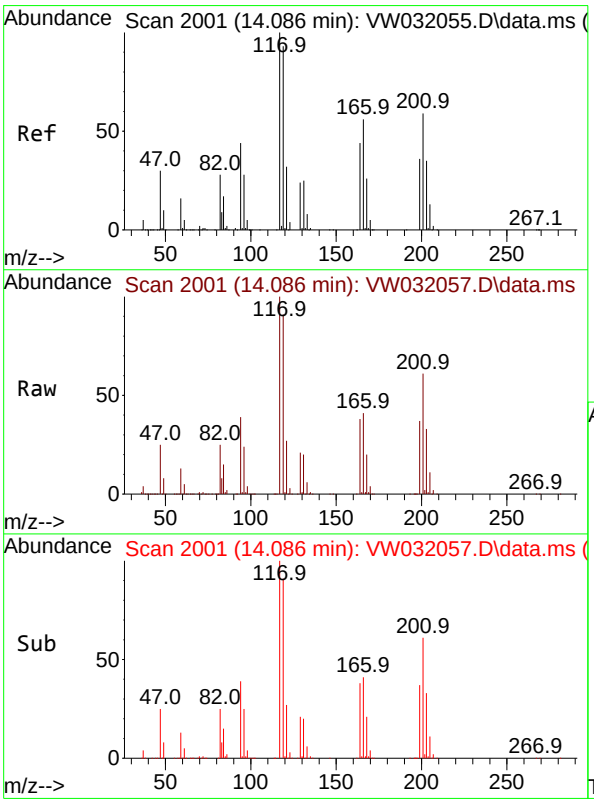
Ion	Ratio	Lower	Upper
91	100		
92	55.4	26.7	80.1
134	24.5	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

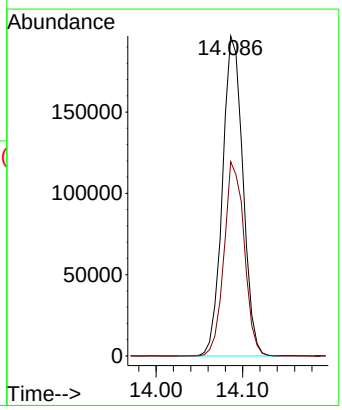
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

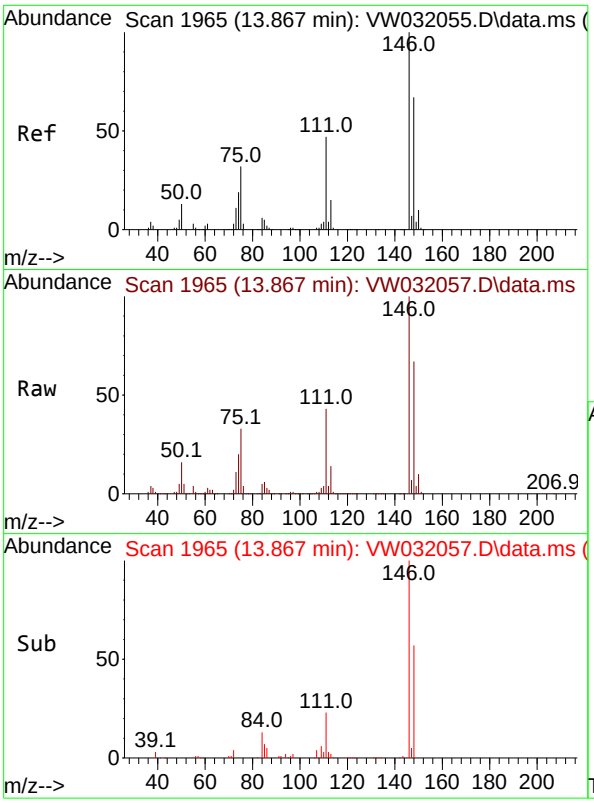


#90
Hexachloroethane
Concen: 164.868 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 322461

Ion	Ratio	Lower	Upper
117	100		
201	60.0	30.9	92.5

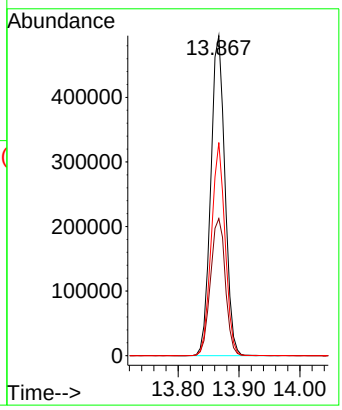




#91
1,2-Dichlorobenzene
Concen: 153.968 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 79825

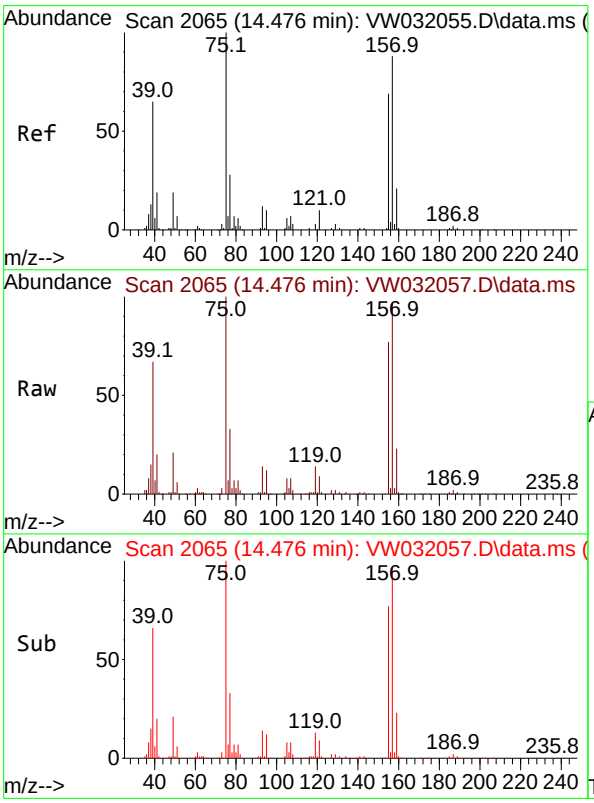
Ion	Ratio	Lower	Upper
146	100		
111	44.9	23.1	69.3
148	64.7	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

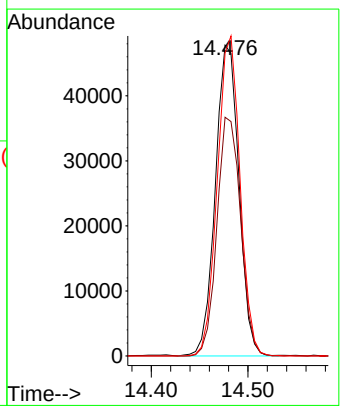
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

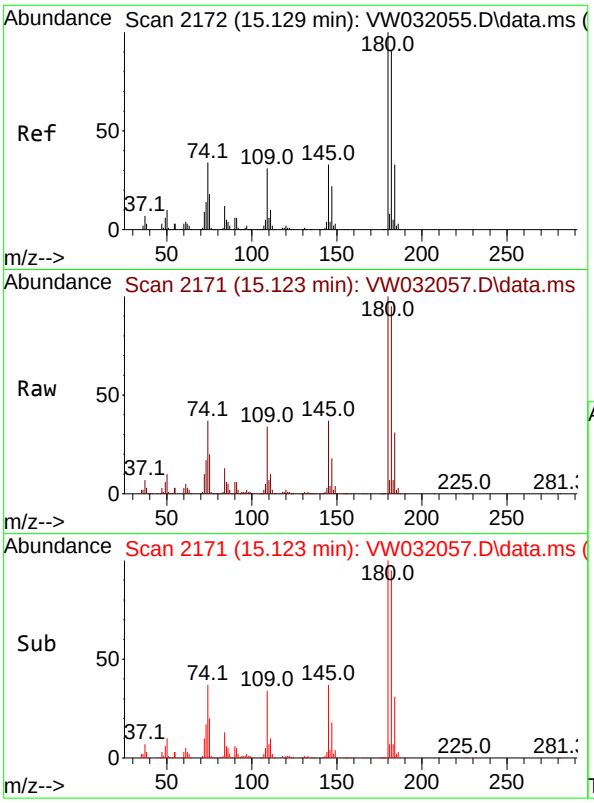


#92
1,2-Dibromo-3-Chloropropane
Concen: 159.472 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

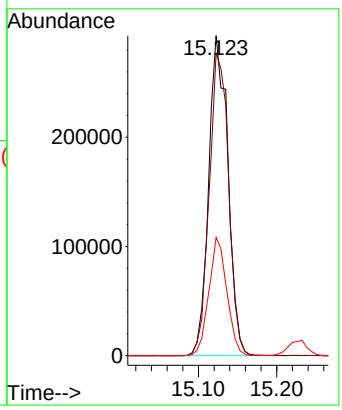




#93
1,2,4-Trichlorobenzene
Concen: 161.006 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:180 Resp: 49935

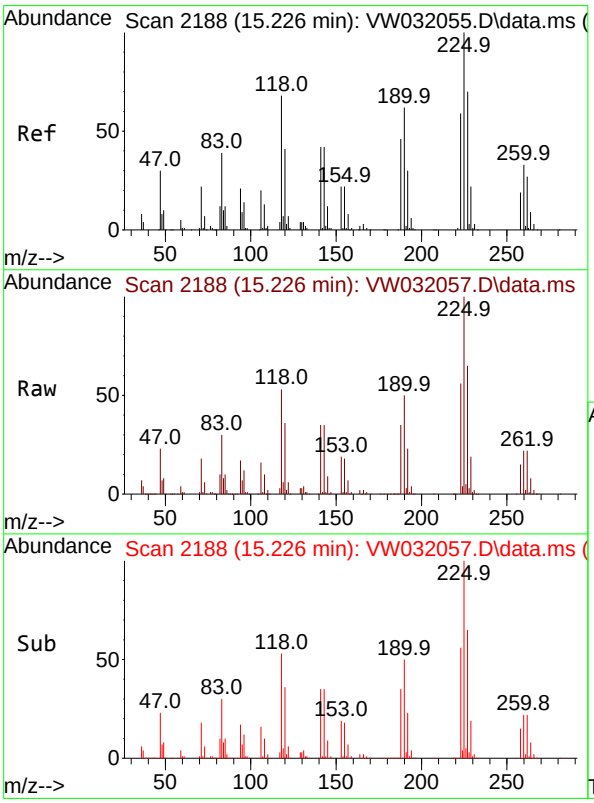
Ion	Ratio	Lower	Upper
180	100		
182	95.3	49.0	147.0
145	34.7	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

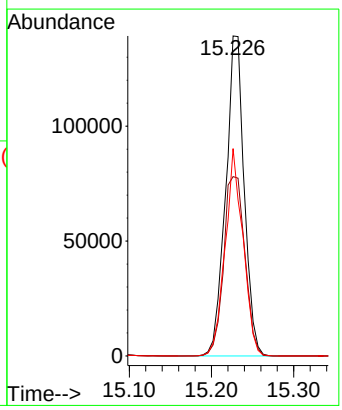
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

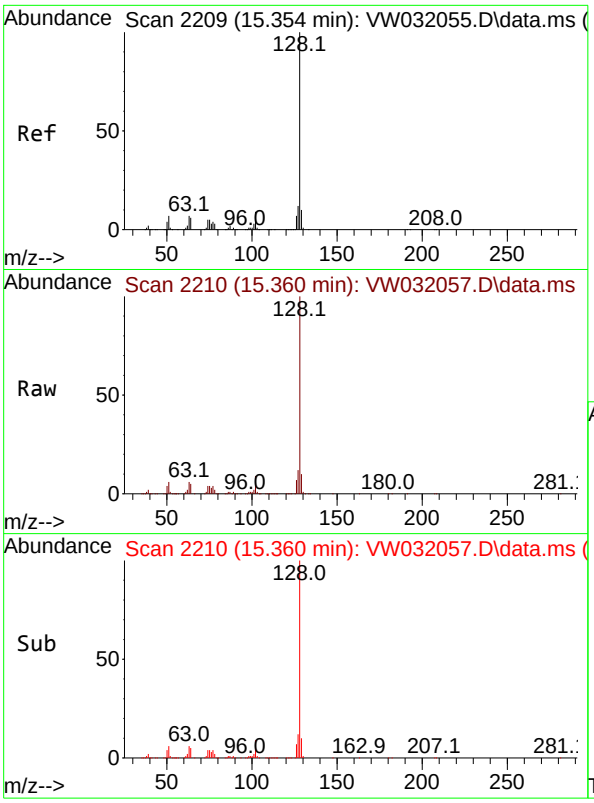


#94
Hexachlorobutadiene
Concen: 157.938 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

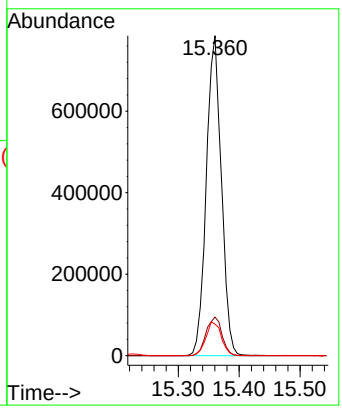




#95
Naphthalene
Concen: 177.424 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:128 Resp: 134834

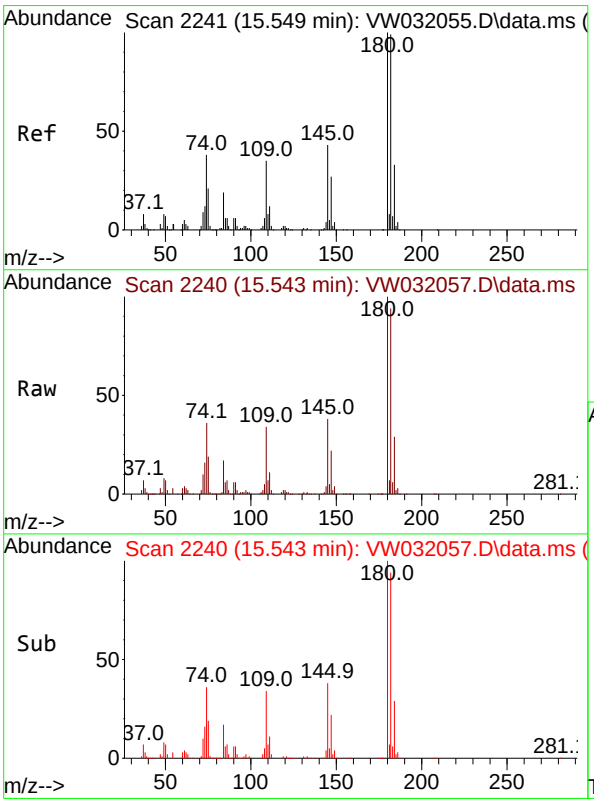
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

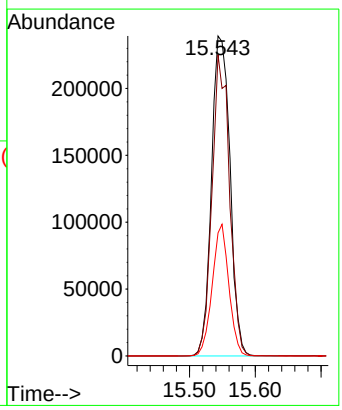
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#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



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

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

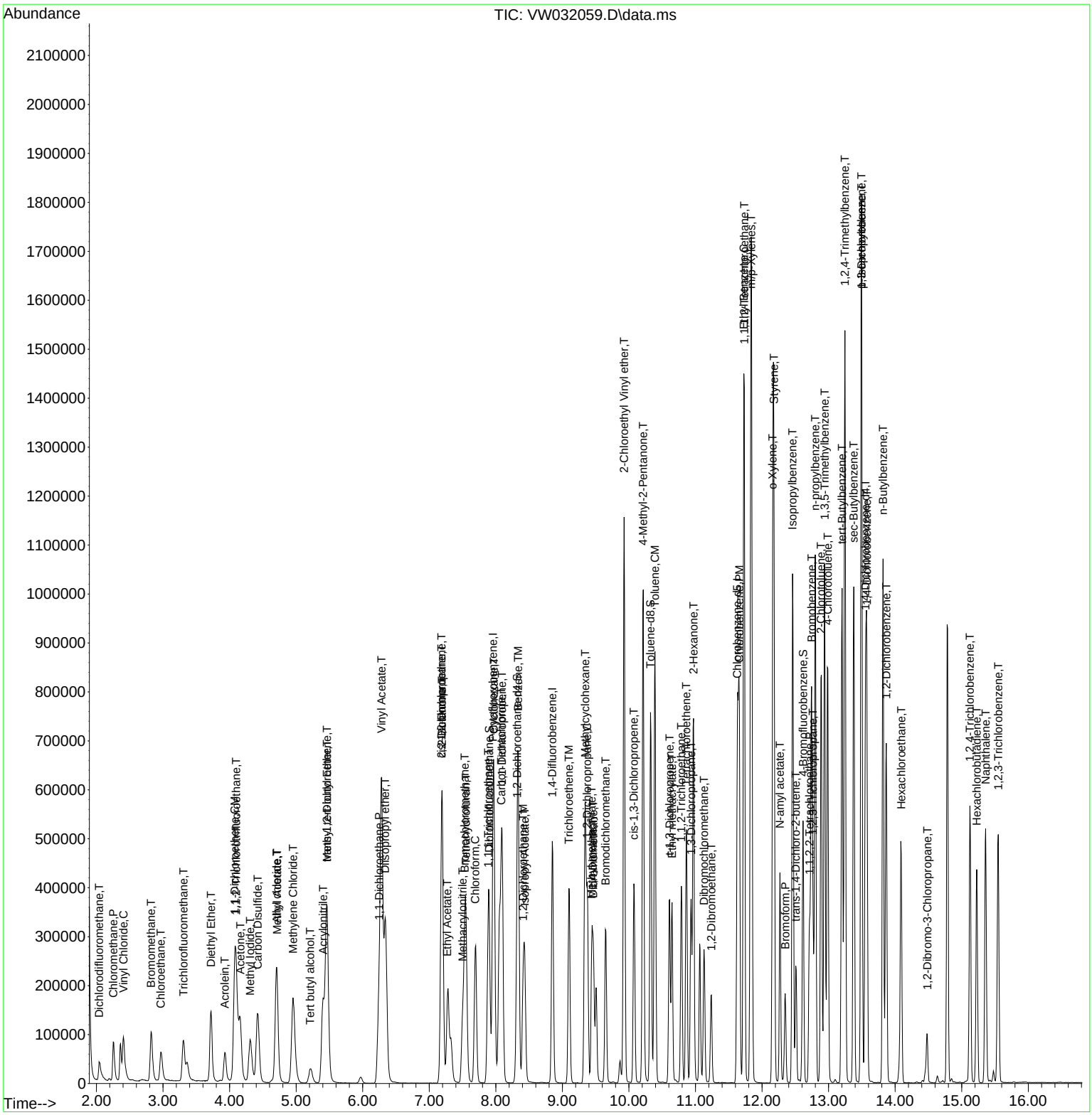
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

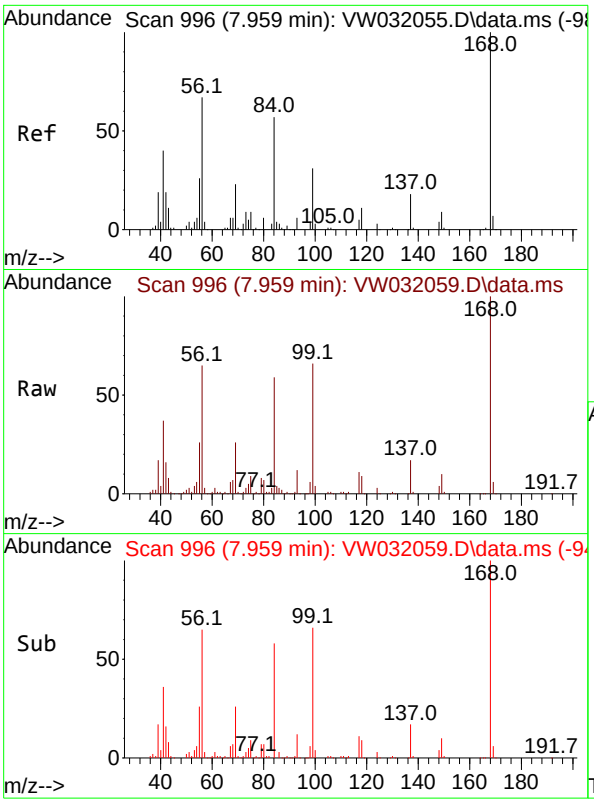
Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

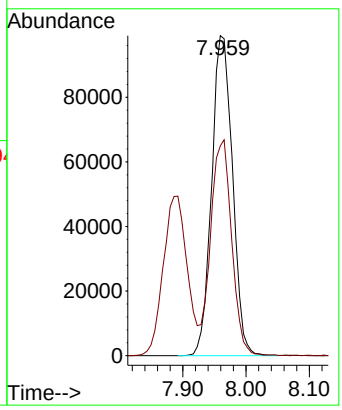




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:168 Resp: 22645

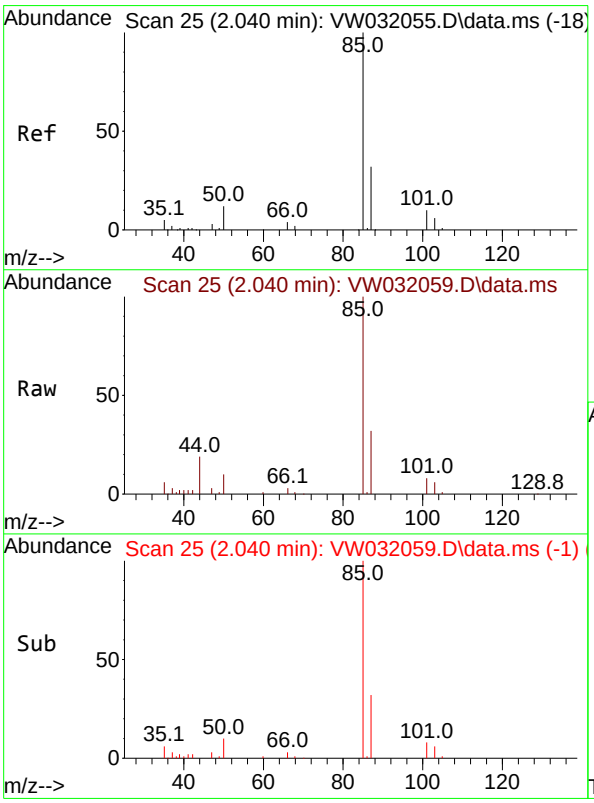
Ion	Ratio	Lower	Upper
168	100		
99	65.5	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
APPROVED

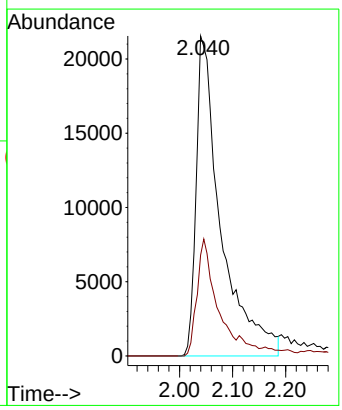
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

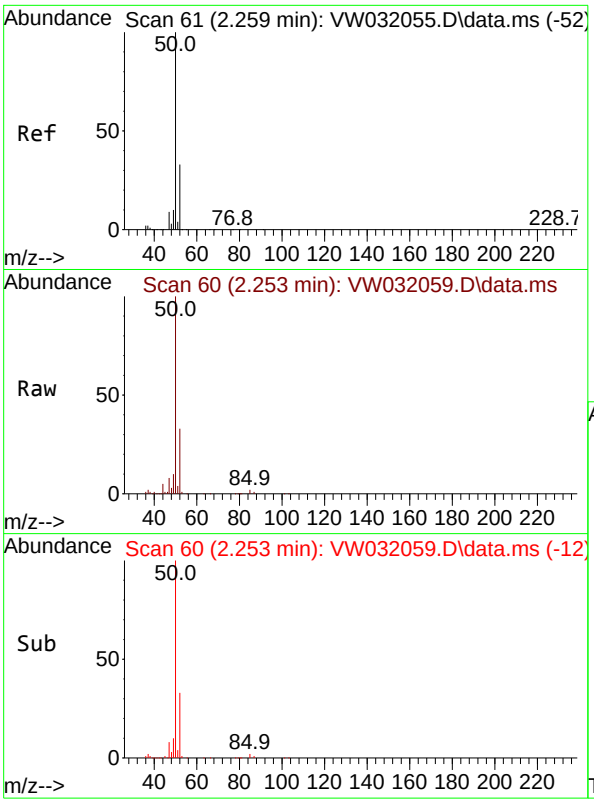


#2
Dichlorodifluoromethane
Concen: 43.069 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 85 Resp: 69757

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.2	48.6

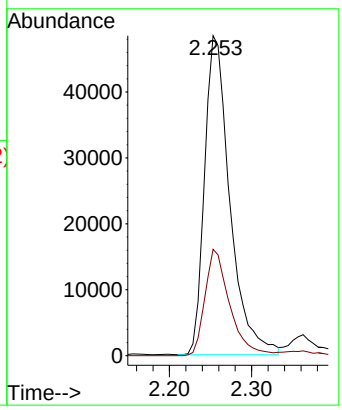




#3
Chloromethane
Concen: 47.474 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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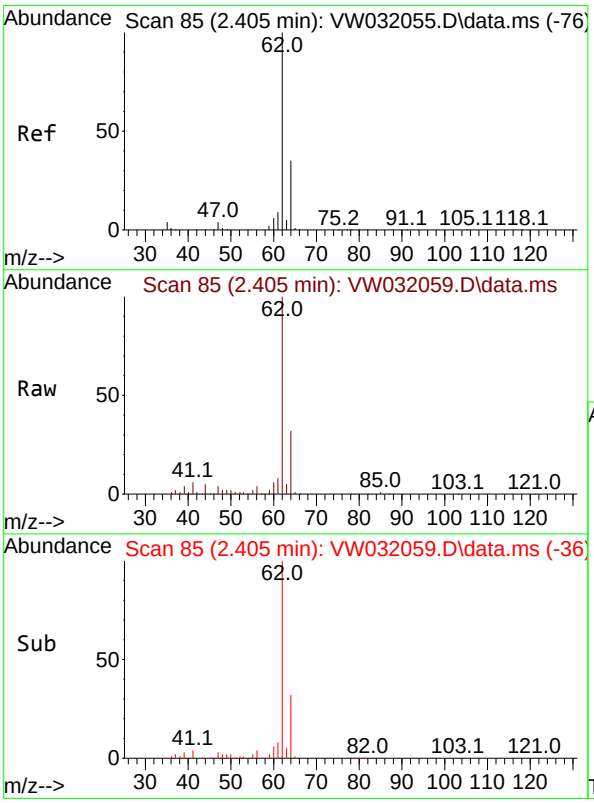
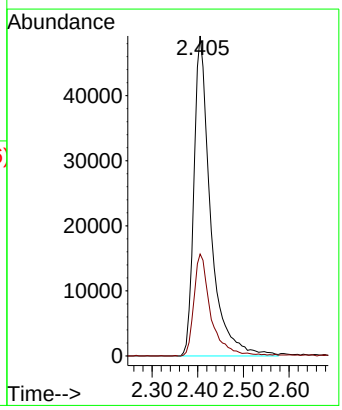
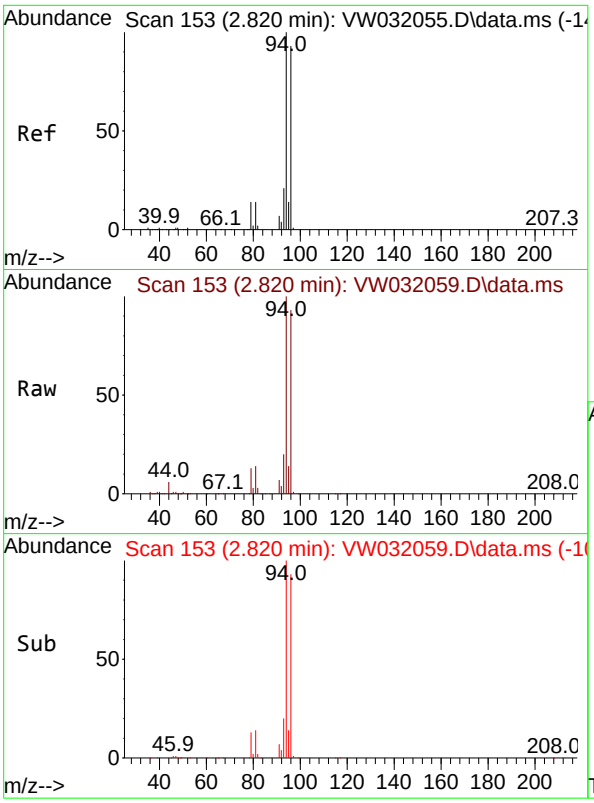


#4
Vinyl Chloride
Concen: 47.096 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 124287

Ion	Ratio	Lower	Upper
62	100		
64	31.9	27.8	41.6

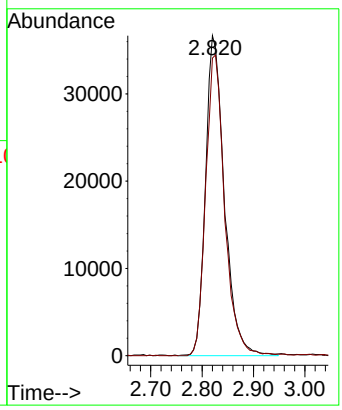




#5
Bromomethane
Concen: 47.201 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 94 Resp: 9345

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.7	112.1



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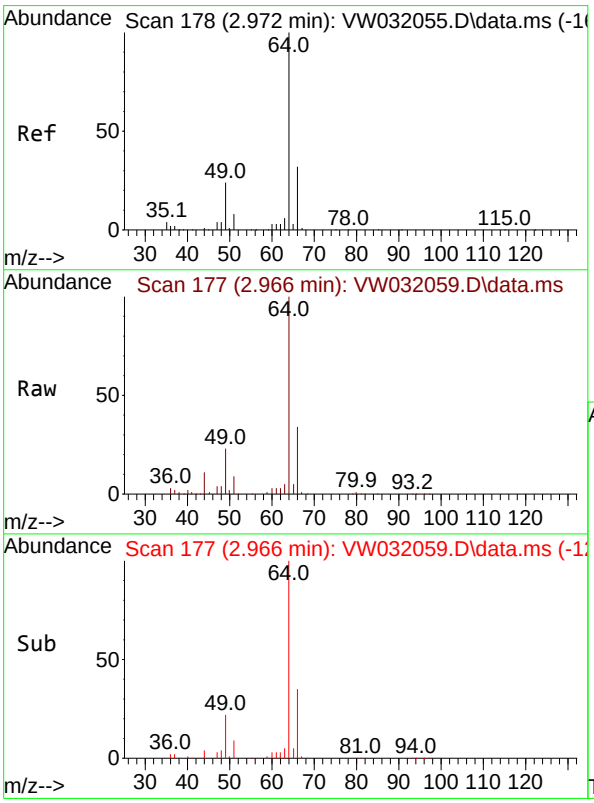
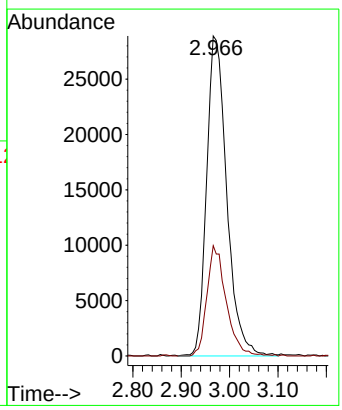
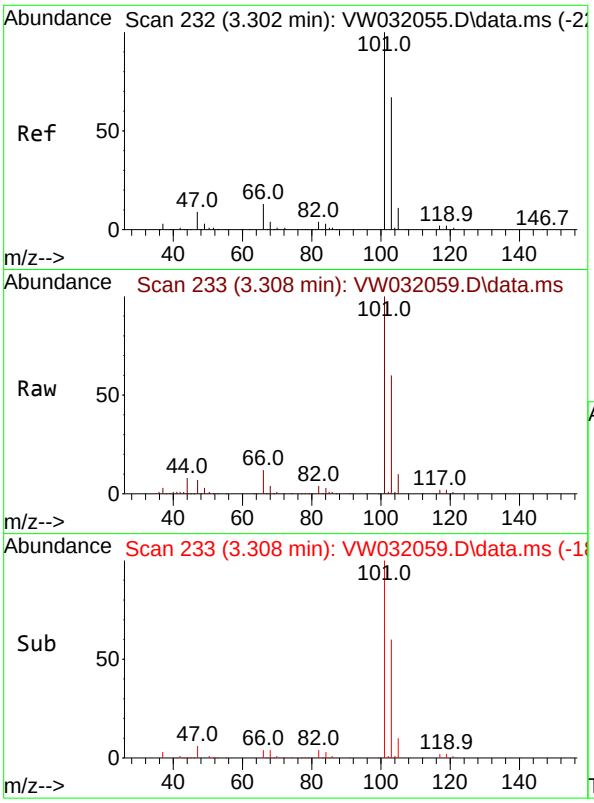


#6
Chloroethane
Concen: 47.858 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 64 Resp: 83573

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.0	39.0

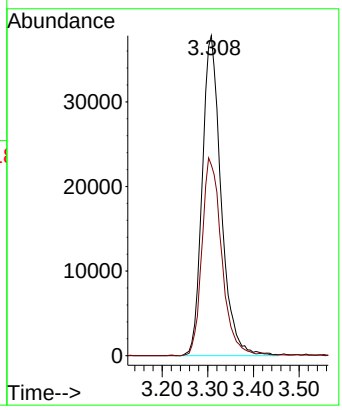




#7
Trichlorofluoromethane
Concen: 51.386 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:101 Resp: 10863

Ion	Ratio	Lower	Upper
101	100		
103	59.6	53.4	80.0



Instrument :
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ClientSampleId :
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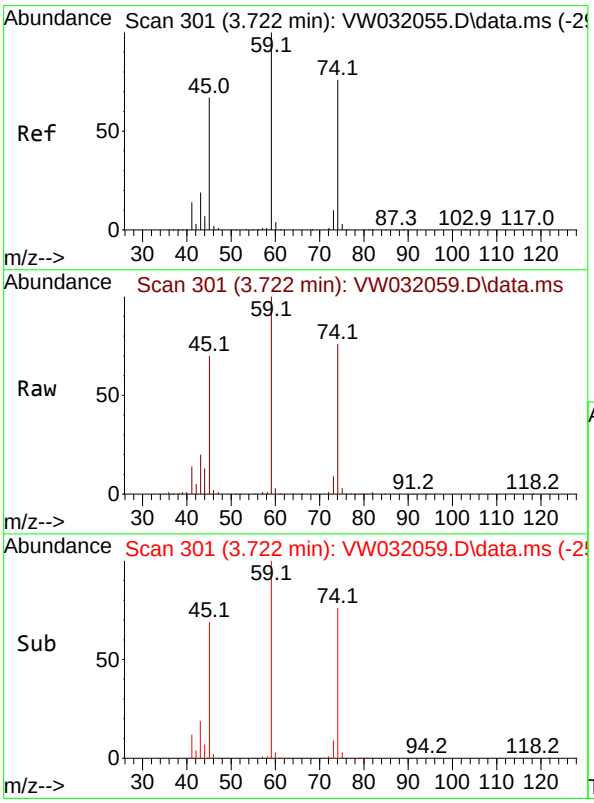
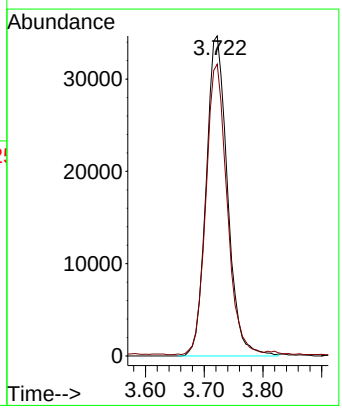
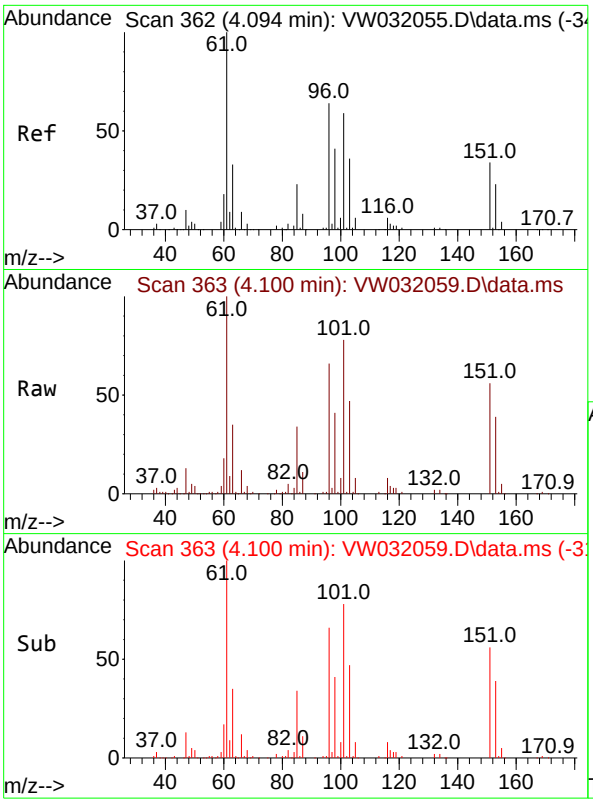


#8
Diethyl Ether
Concen: 50.380 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 74 Resp: 87261

Ion	Ratio	Lower	Upper
74	100		
45	90.2	45.4	136.2

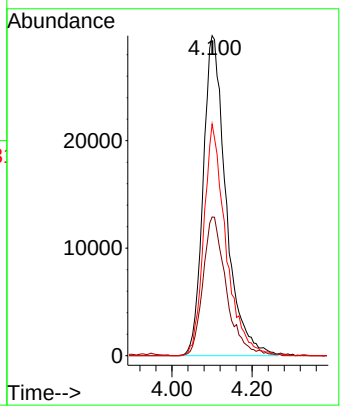




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.316 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
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ClientSampleId :
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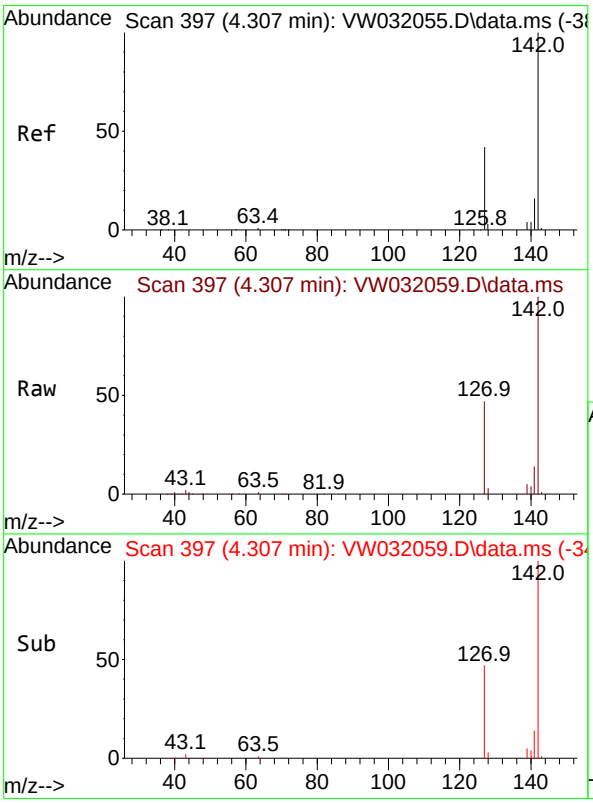
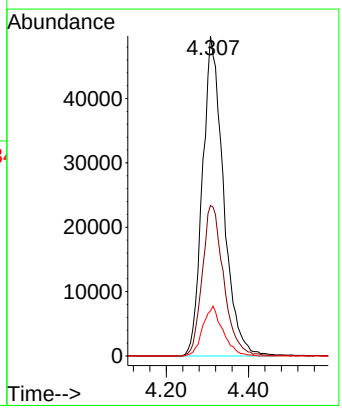
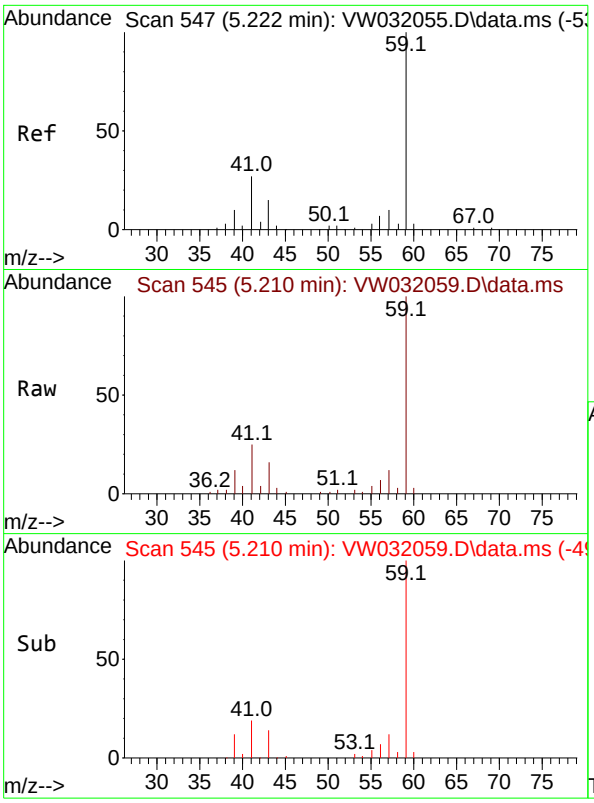


#10
Methyl Iodide
Concen: 49.742 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

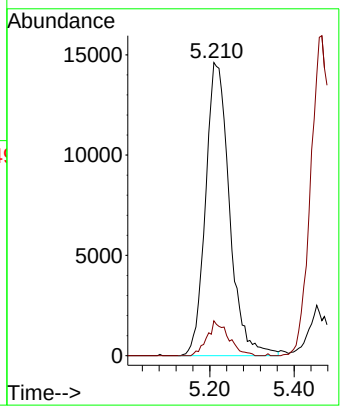




#11
Tert butyl alcohol
Concen: 271.910 ug/l
RT: 5.210 min Scan# 54
Delta R.T. -0.012 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 59 Resp: 5766

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1



Instrument :
MSVOA_W
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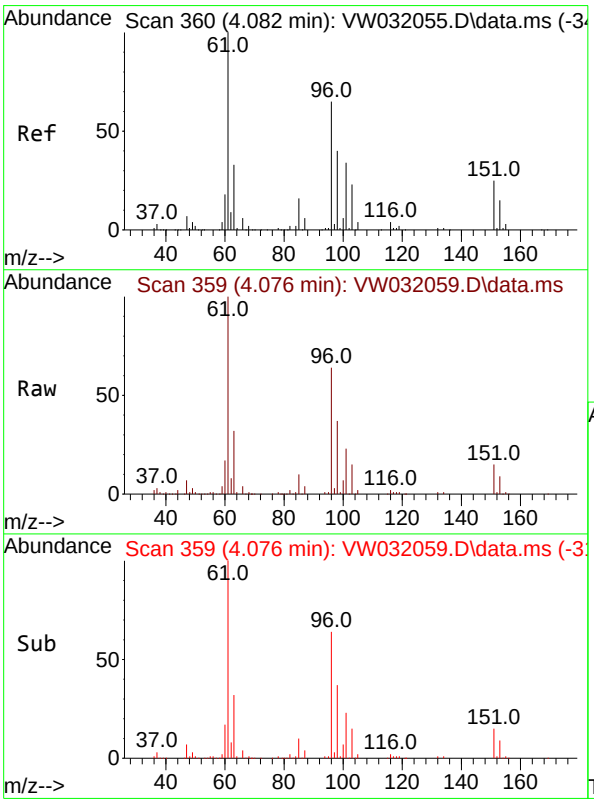
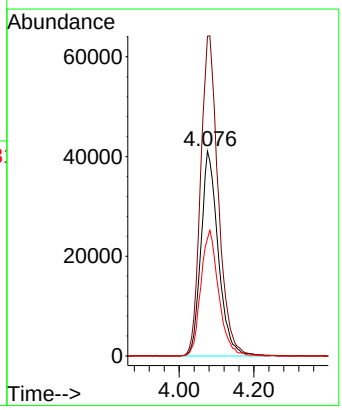
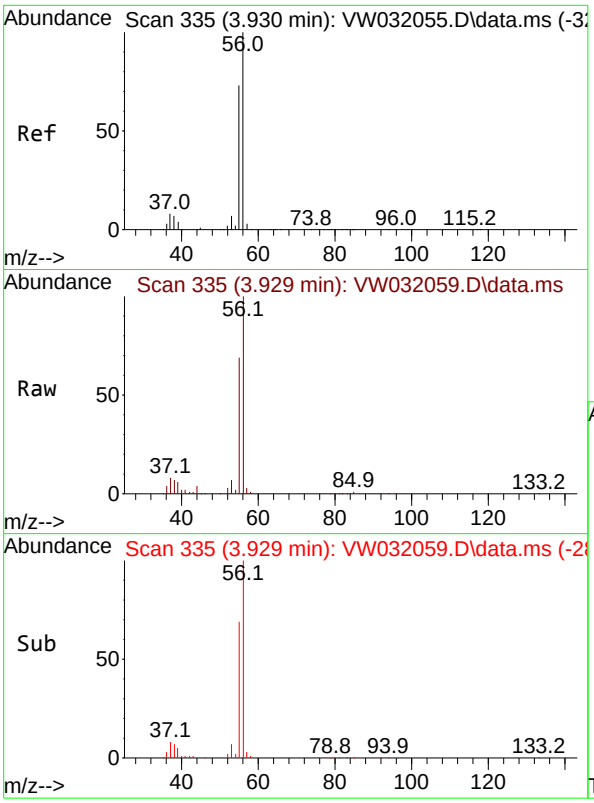


#12
1,1-Dichloroethene
Concen: 47.992 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
ICVVW081125

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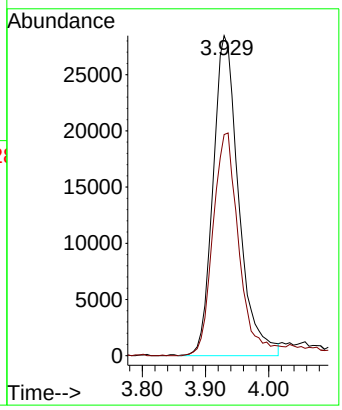
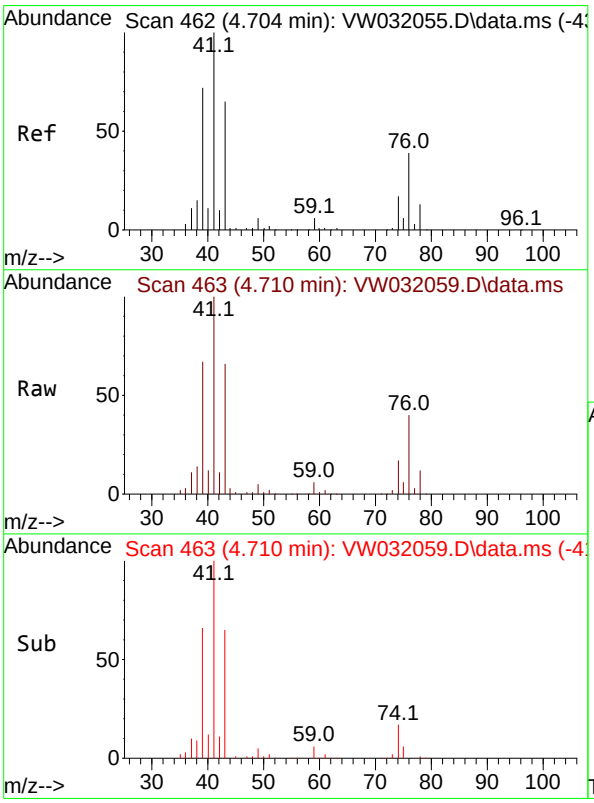
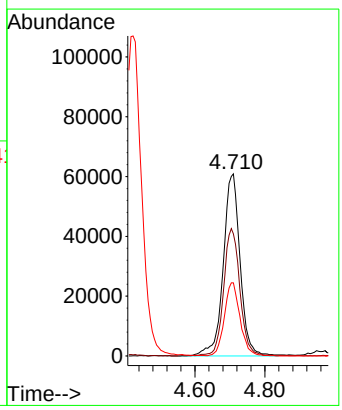


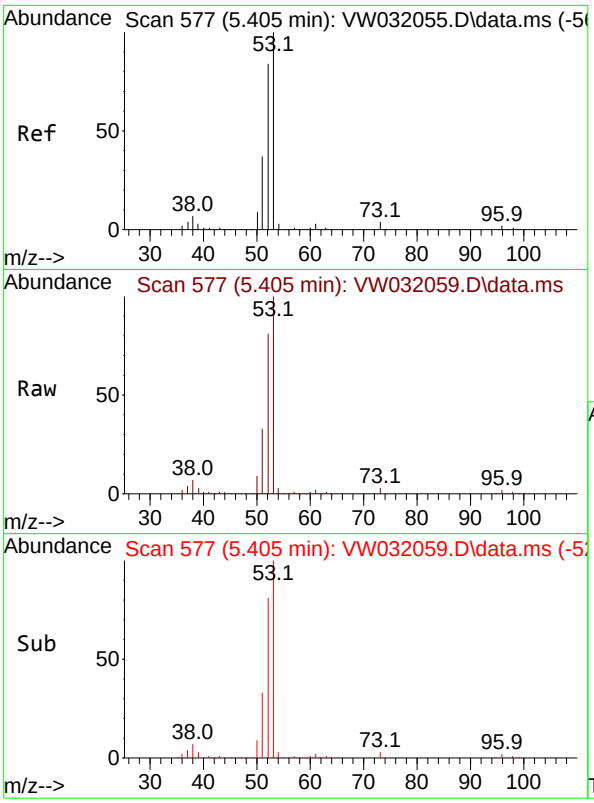


#14
Allyl chloride
Concen: 51.094 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

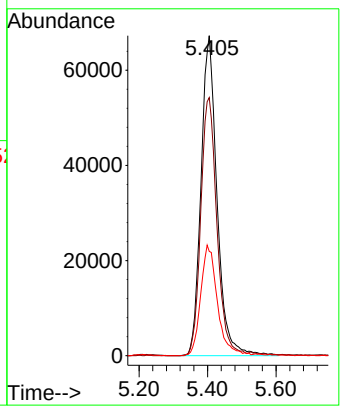




#15
Acrylonitrile
Concen: 265.958 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



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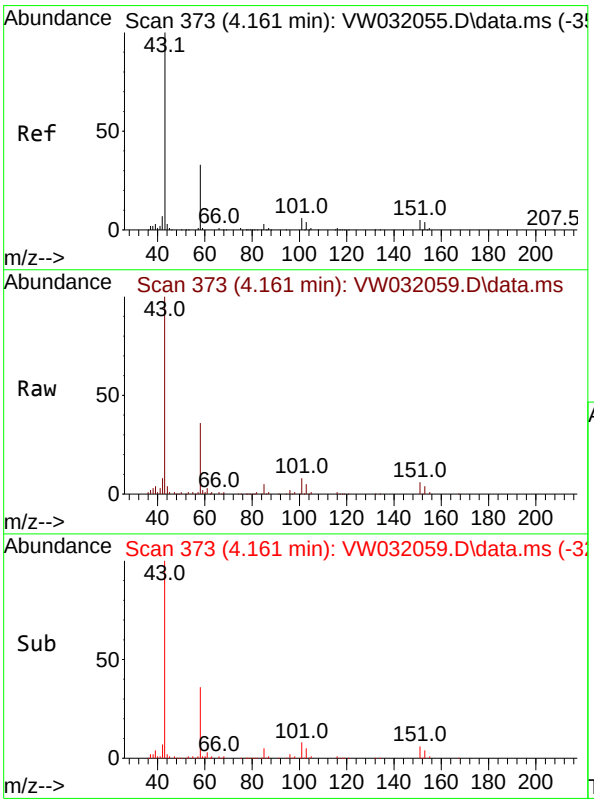
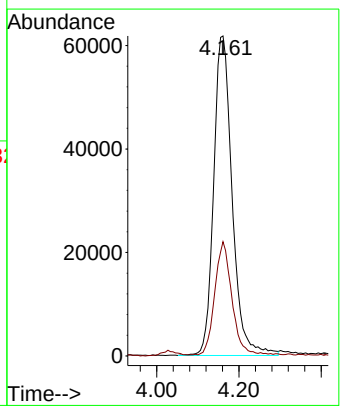
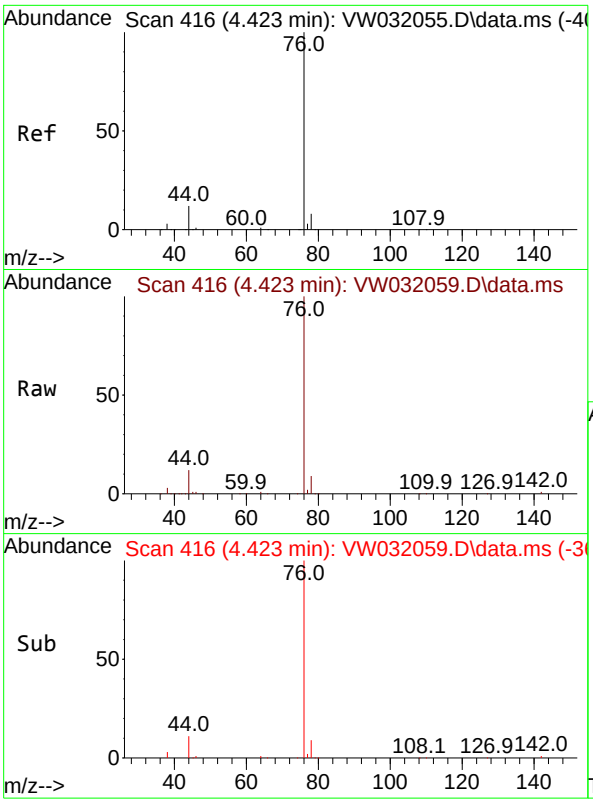


#16
Acetone
Concen: 254.262 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 192802

Ion	Ratio	Lower	Upper
43	100		
58	35.1	26.6	39.8

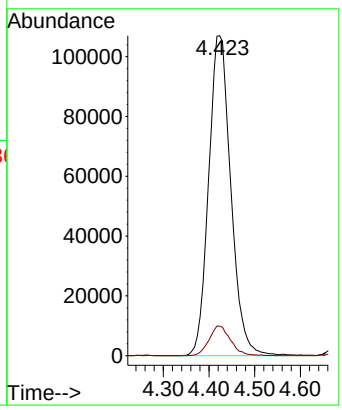




#17
Carbon Disulfide
Concen: 48.970 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 76 Resp: 36098

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.4	9.6



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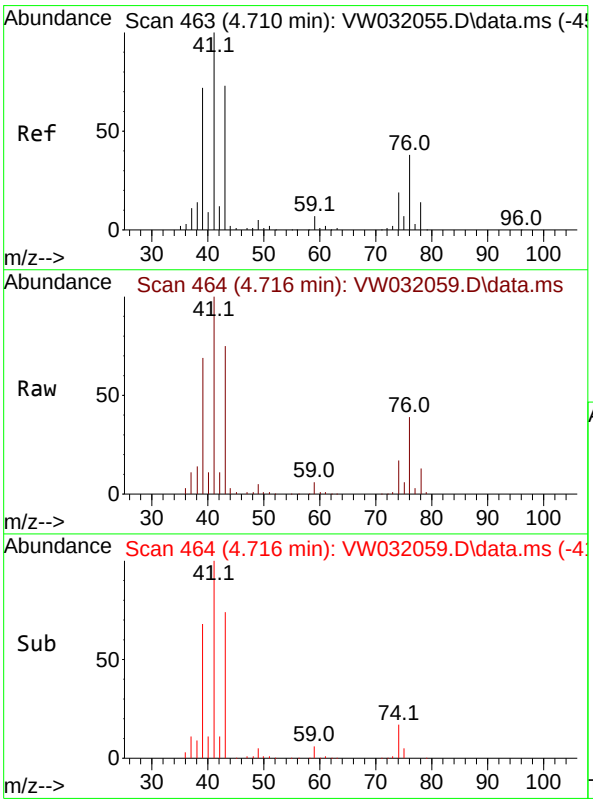
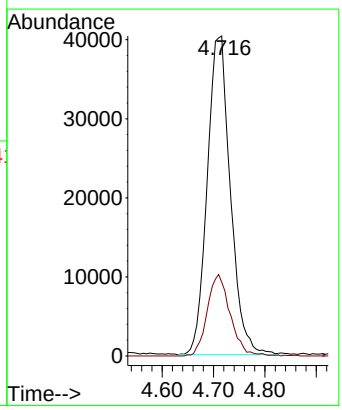
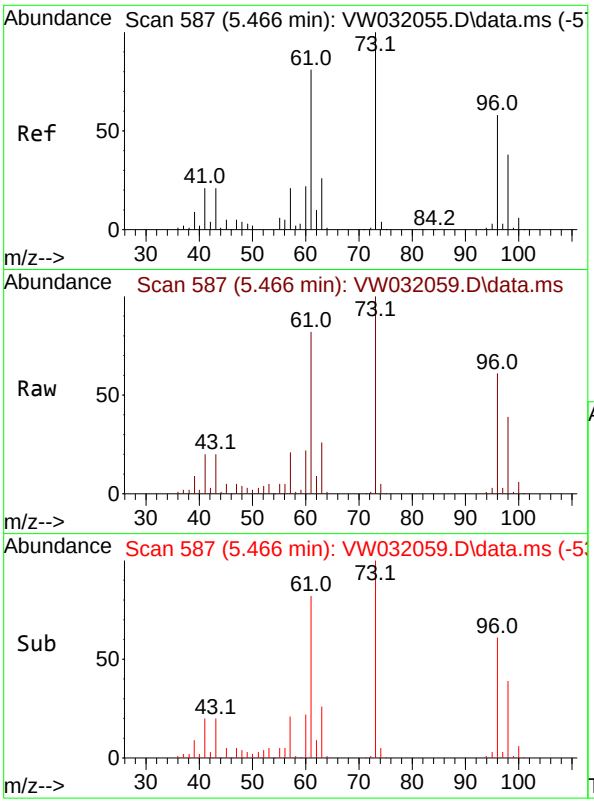


#18
Methyl Acetate
Concen: 52.614 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 126246

Ion	Ratio	Lower	Upper
43	100		
74	25.3	20.6	31.0

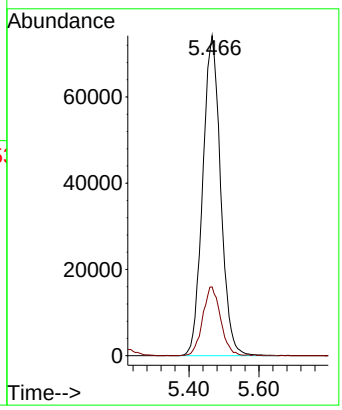




#19
Methyl tert-butyl Ether
Concen: 54.465 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 73 Resp: 26354

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8



Instrument :
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ClientSampleId :
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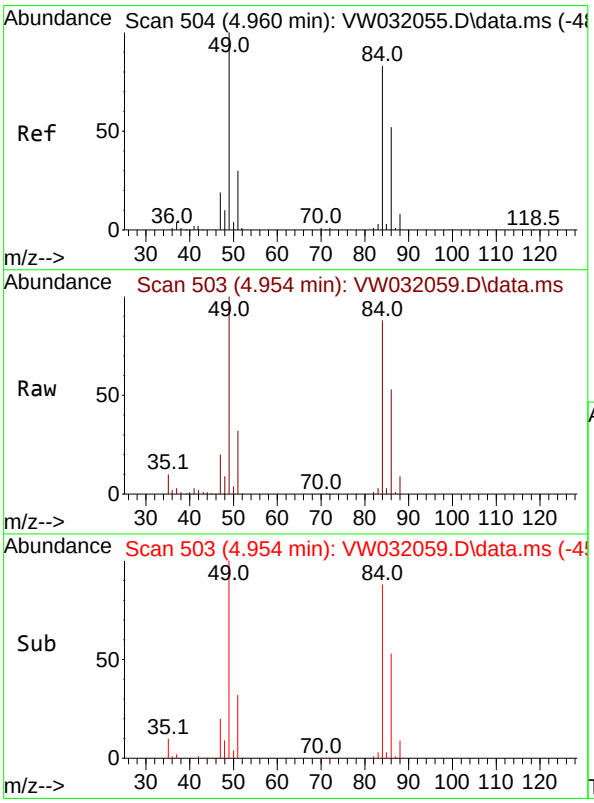
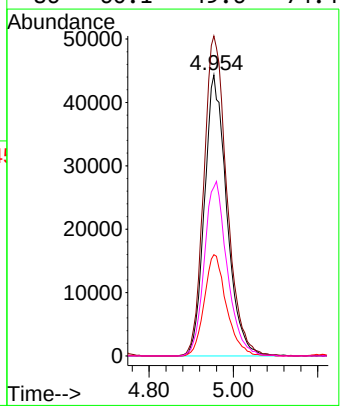
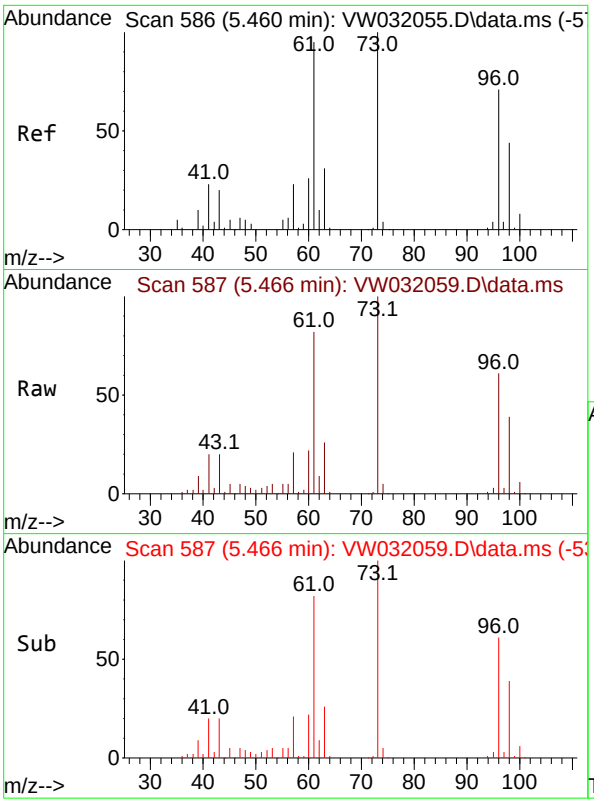


#20
Methylene Chloride
Concen: 46.453 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

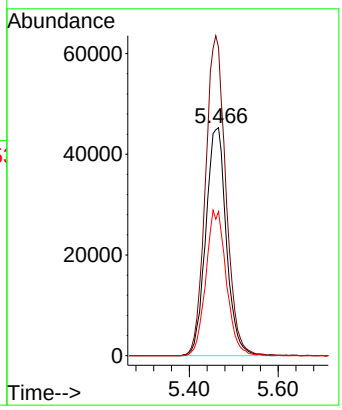




#21
trans-1,2-Dichloroethene
Concen: 50.035 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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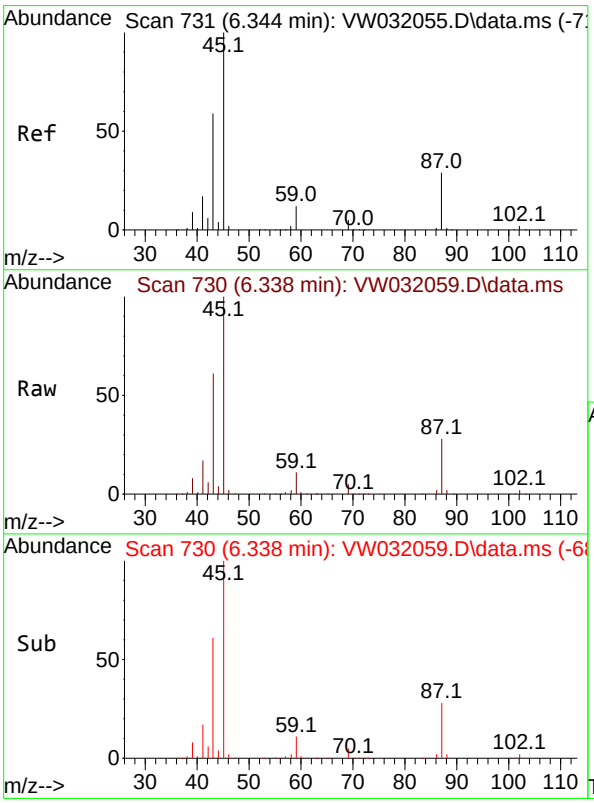
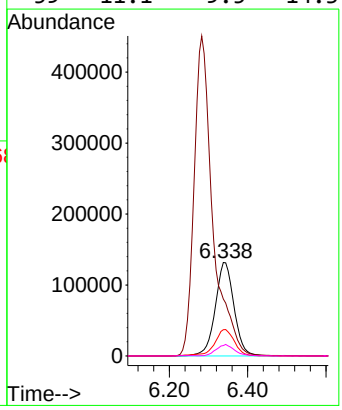
Supervised By :Semsettin Yesilyurt 08/12/2025

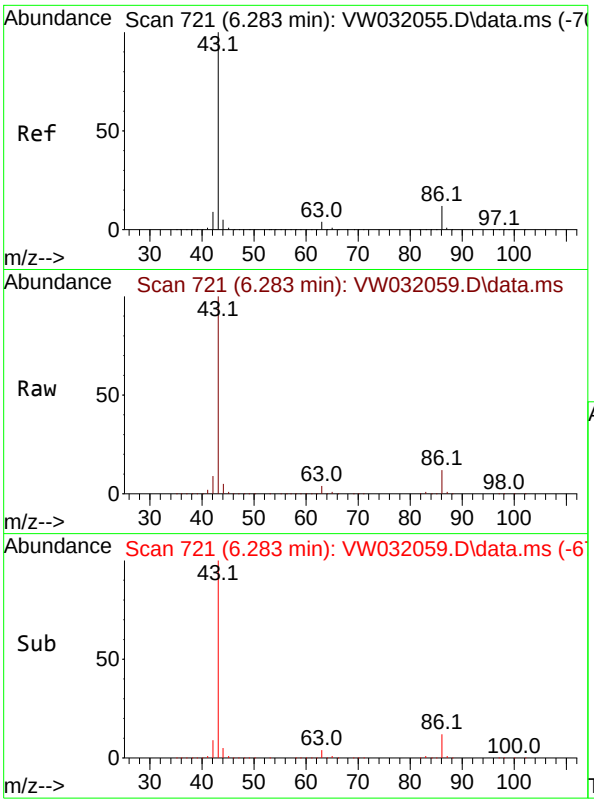


#22
Diisopropyl ether
Concen: 52.038 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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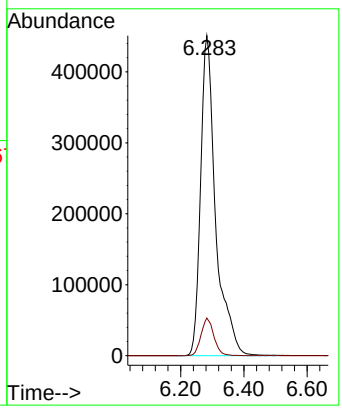
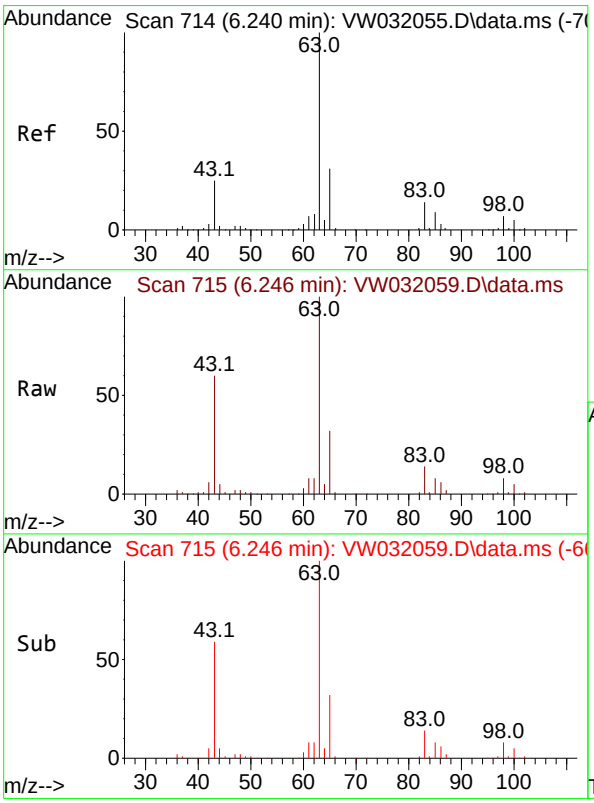
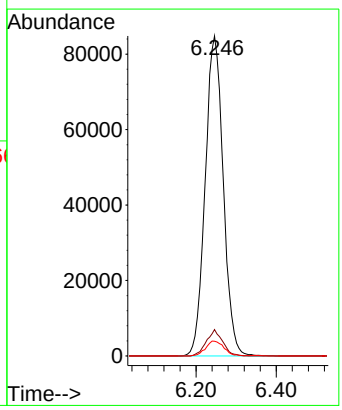


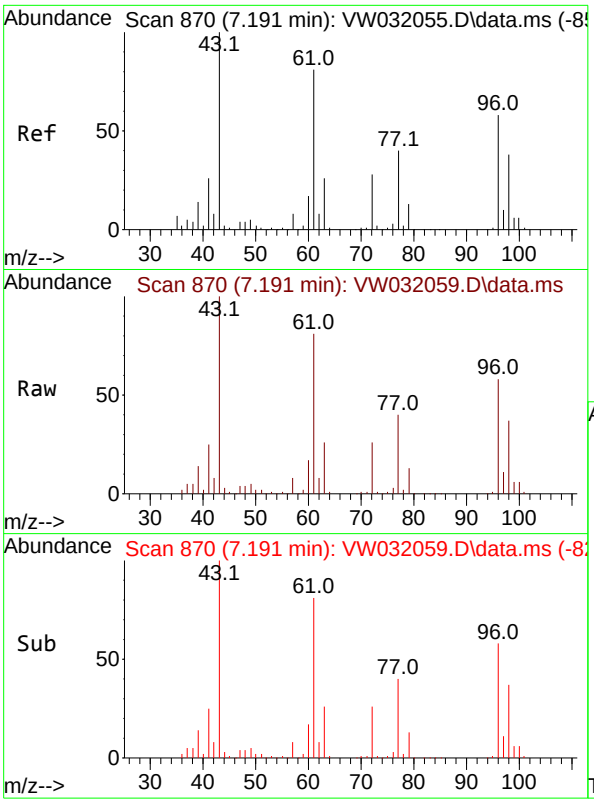


#24
1,1-Dichloroethane
Concen: 49.234 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

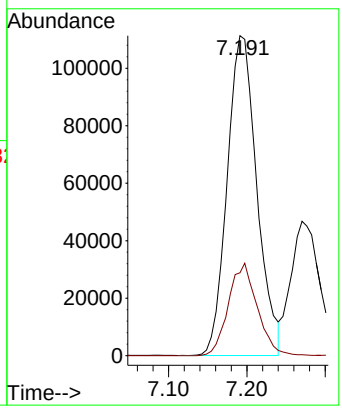




#25
2-Butanone
Concen: 272.083 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 29322

Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.3	33.5



Instrument :
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ClientSampleId :
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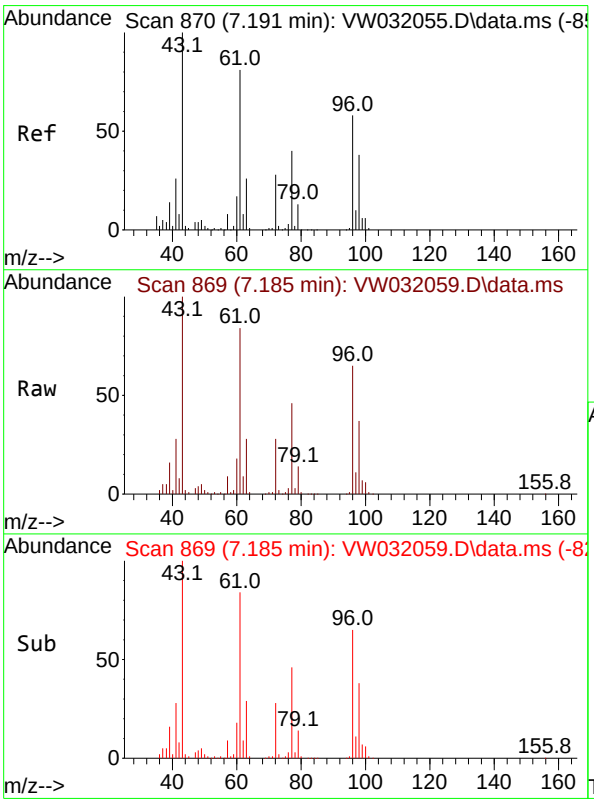
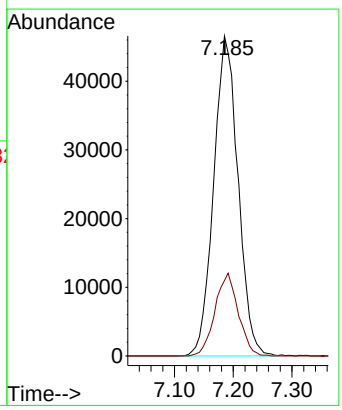
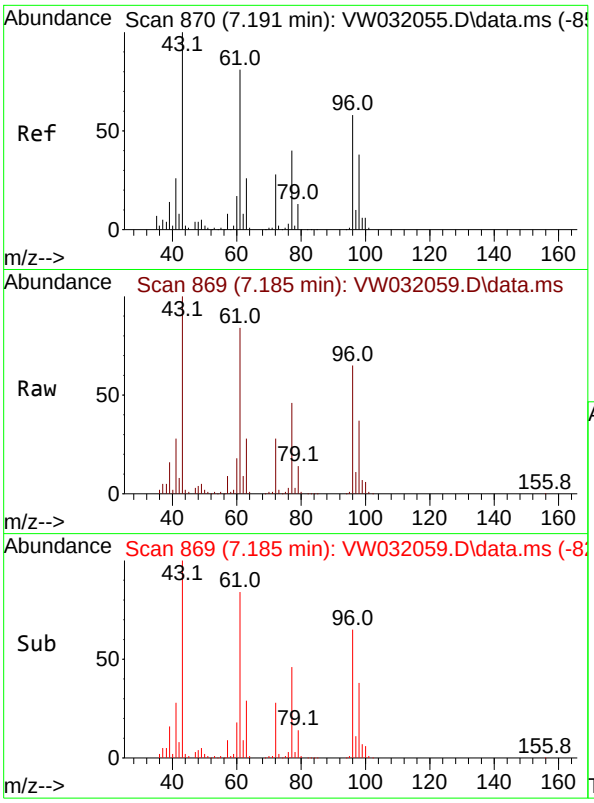


#26
2,2-Dichloropropane
Concen: 49.659 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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
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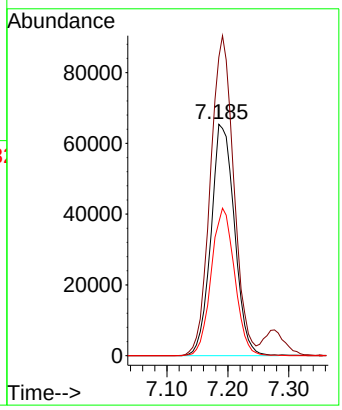
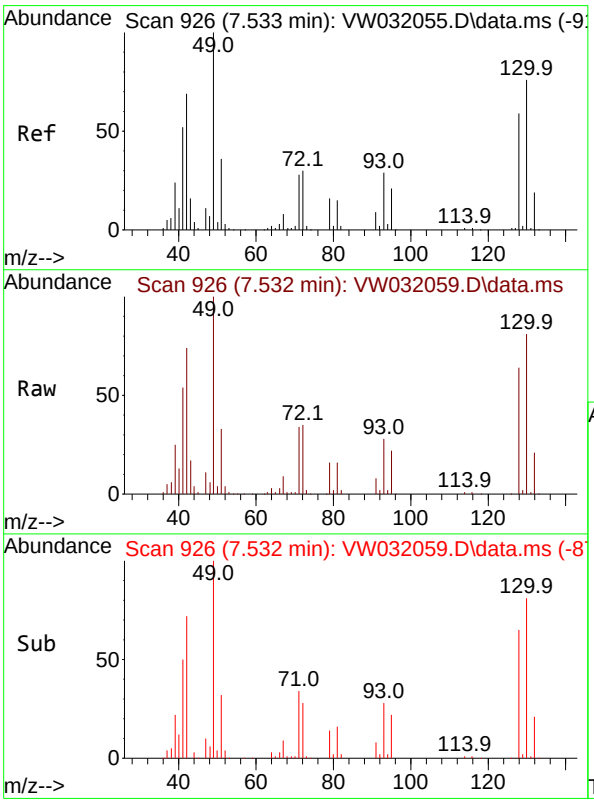
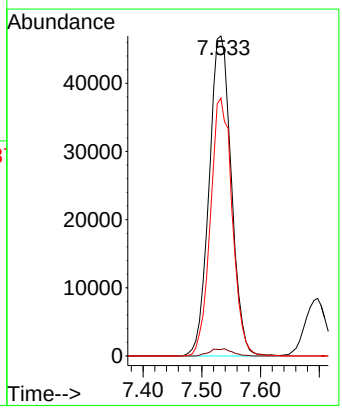


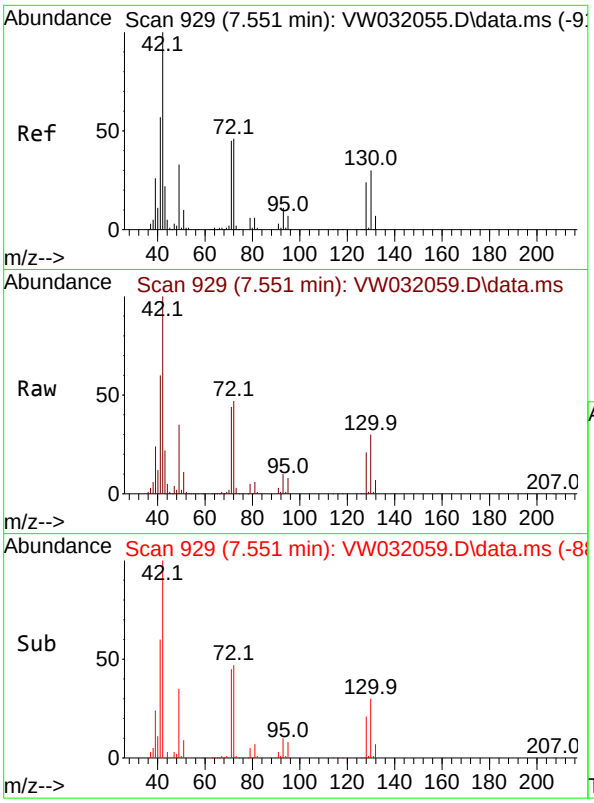


#28
Bromochloromethane
Concen: 50.315 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

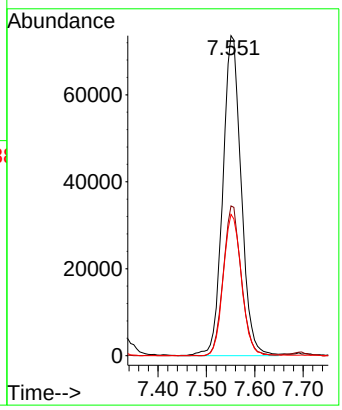




#29
Tetrahydrofuran
Concen: 274.235 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
MSVOA_W
ClientSampleId :
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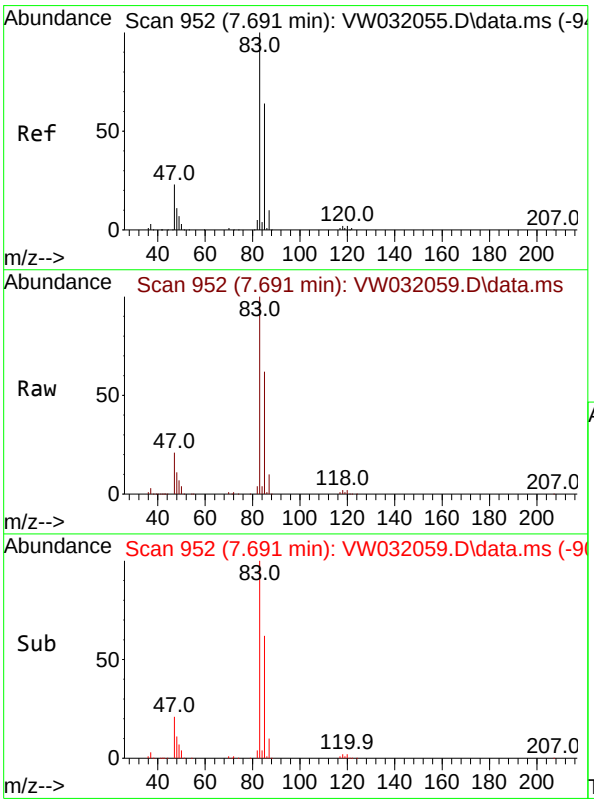
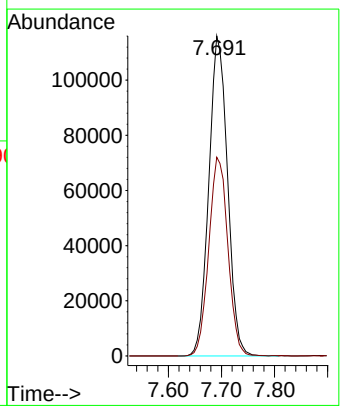
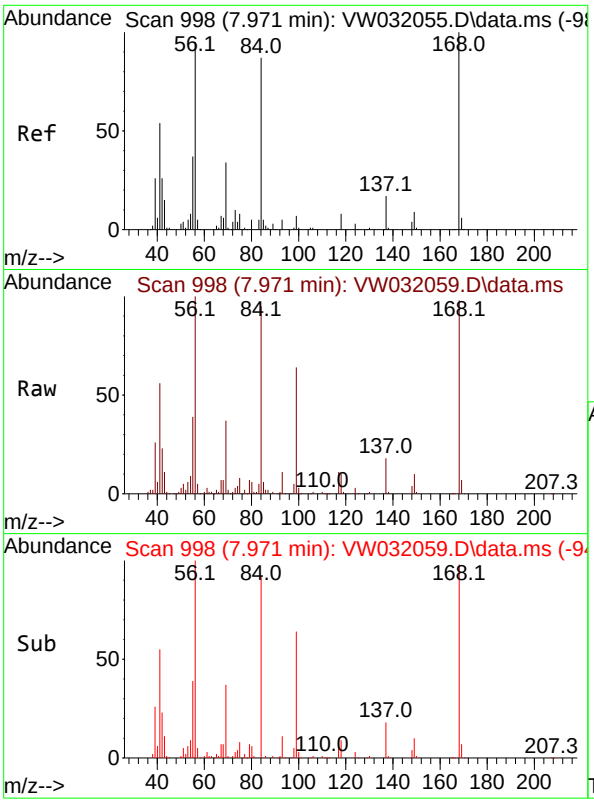


#30
Chloroform
Concen: 49.803 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 284250

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.0	76.4

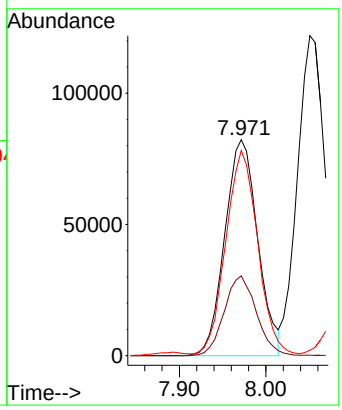




#31
Cyclohexane
Concen: 46.646 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
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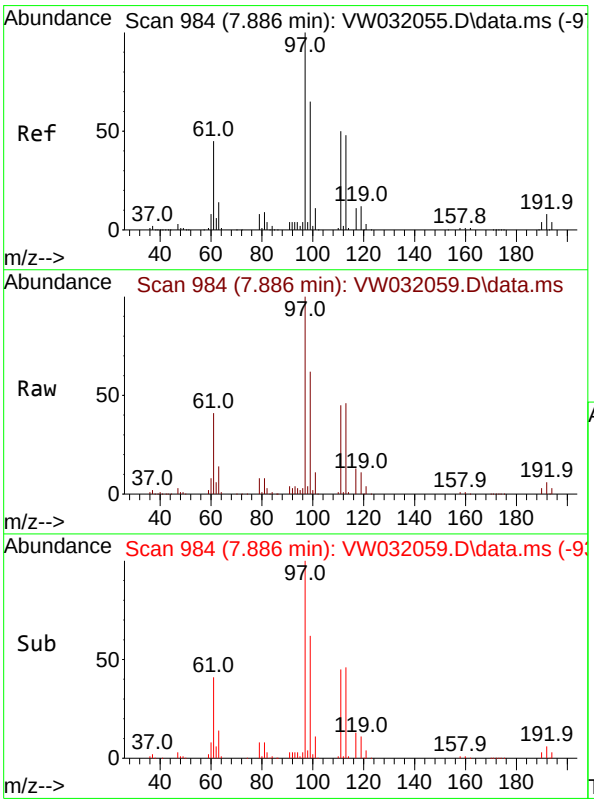
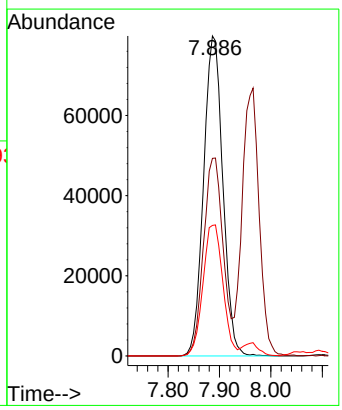
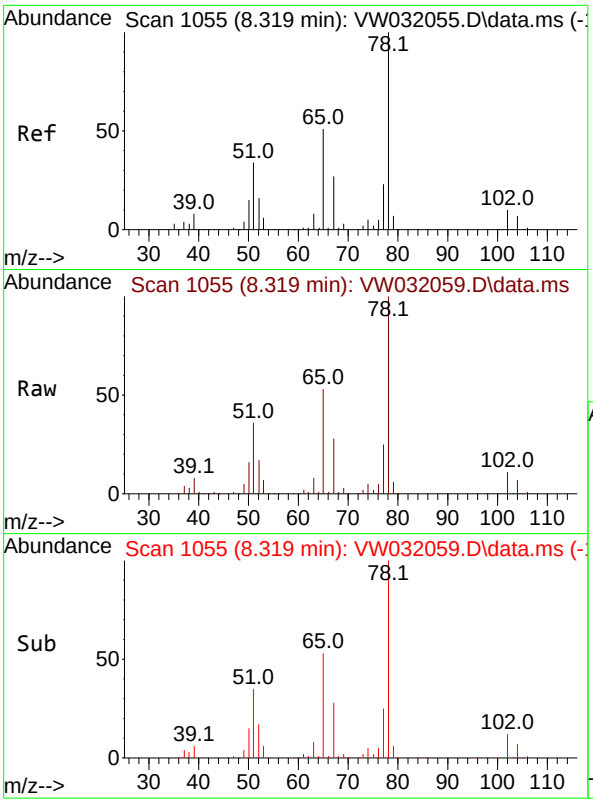


#32
1,1,1-Trichloroethane
Concen: 50.108 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

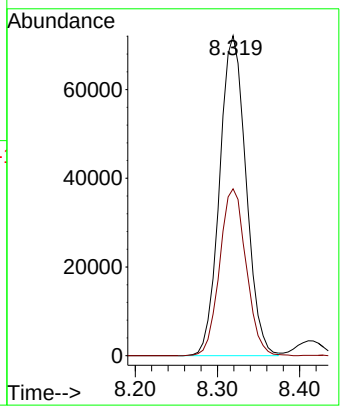




#33
1,2-Dichloroethane-d4
Concen: 49.205 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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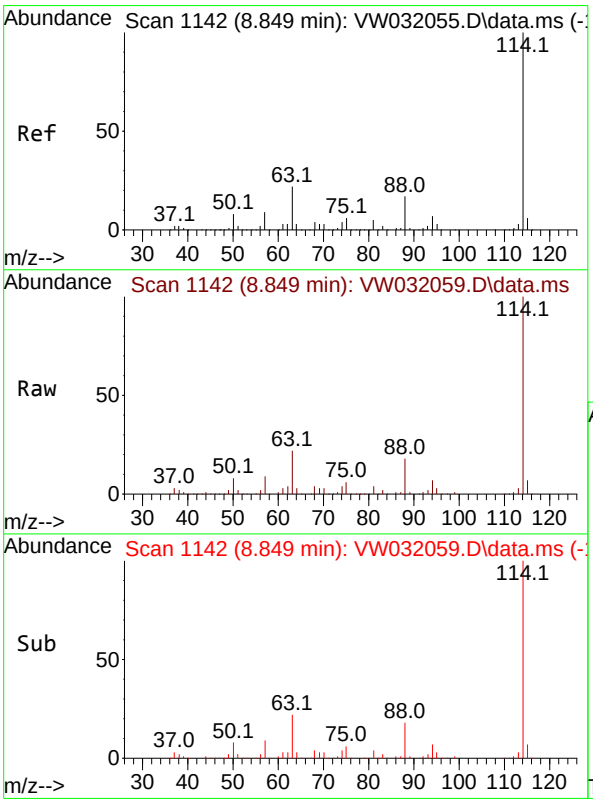
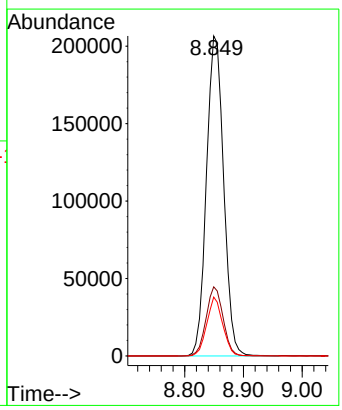
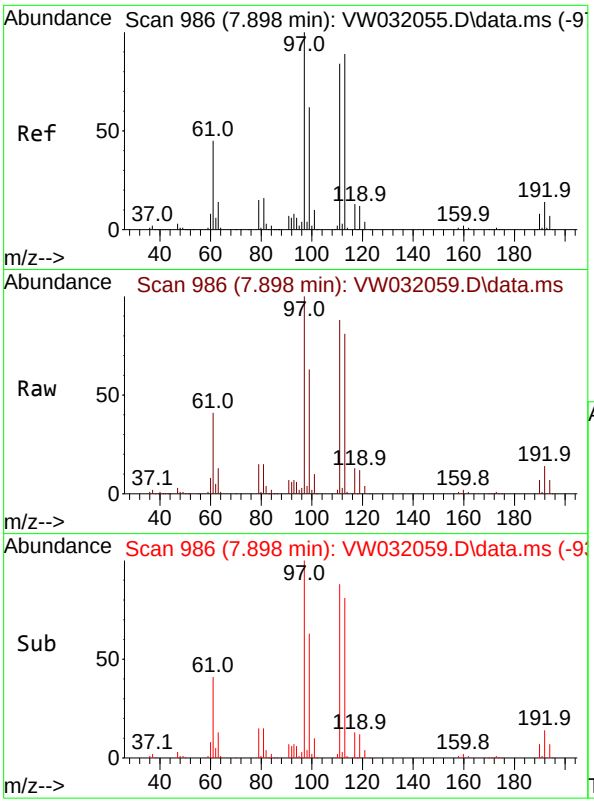


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

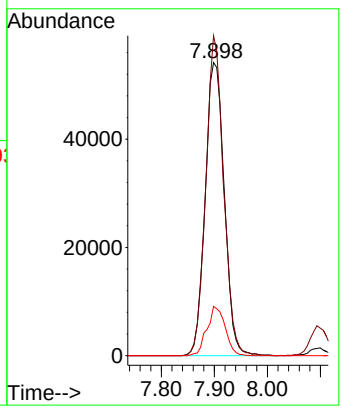




#35
Dibromofluoromethane
Concen: 49.939 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
MSVOA_W
ClientSampleId :
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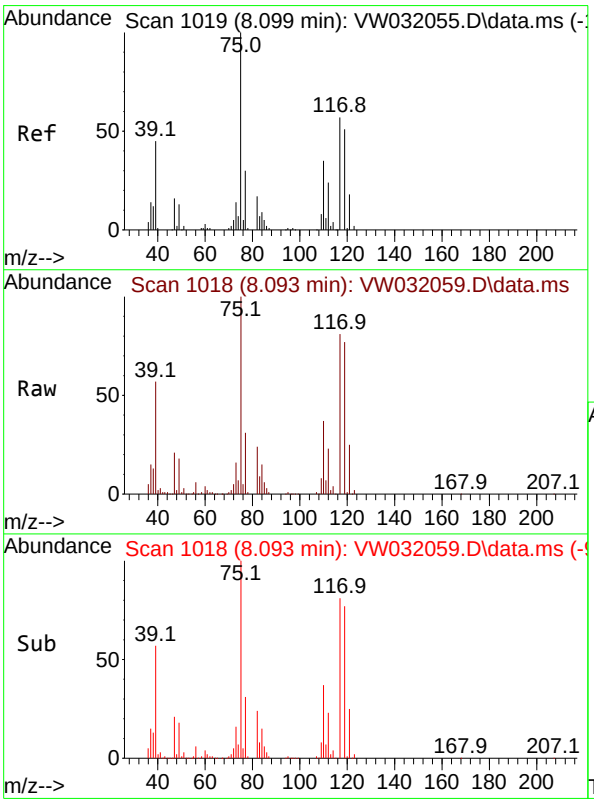
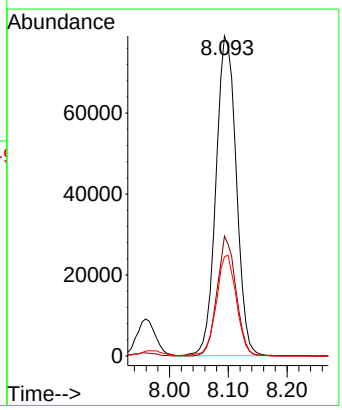
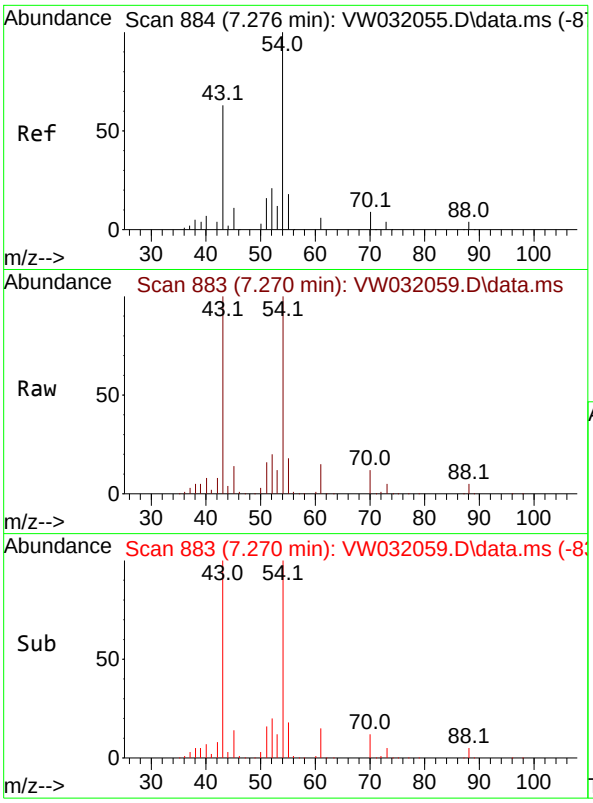


#36
1,1-Dichloropropene
Concen: 49.574 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

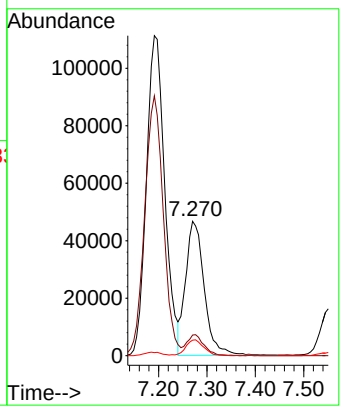




#37
Ethyl Acetate
Concen: 55.214 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
ICVVW081125

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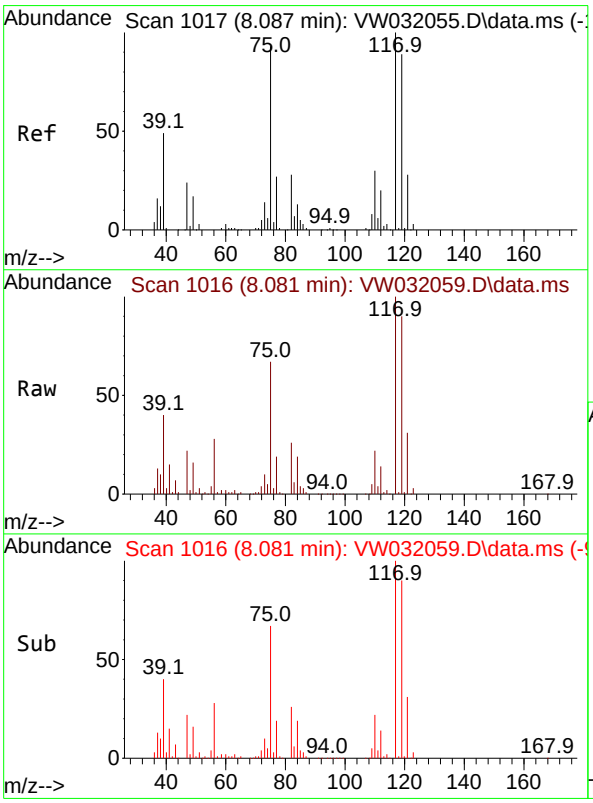
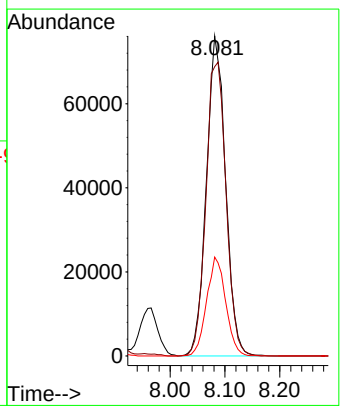
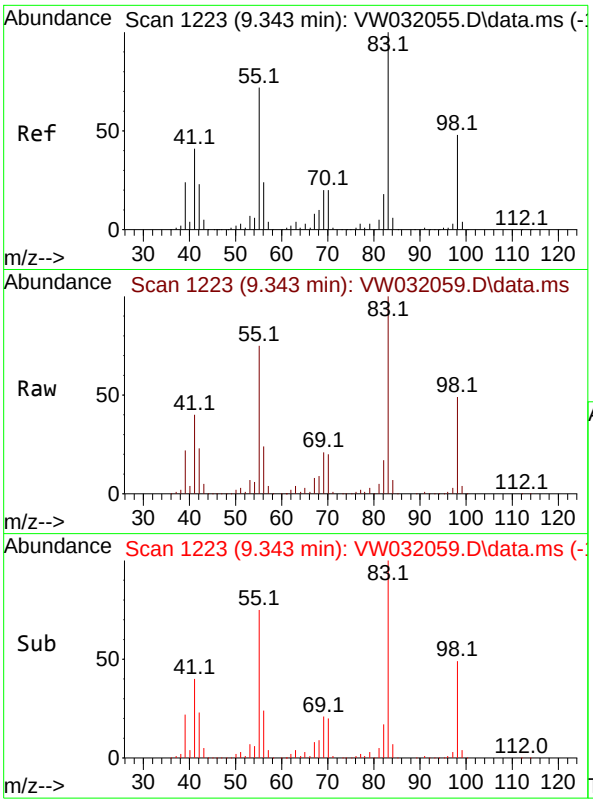


#38
Carbon Tetrachloride
Concen: 50.015 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

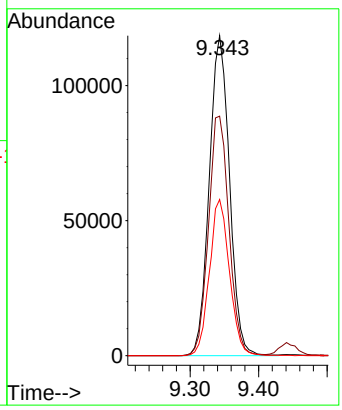




#39
Methylcyclohexane
Concen: 52.181 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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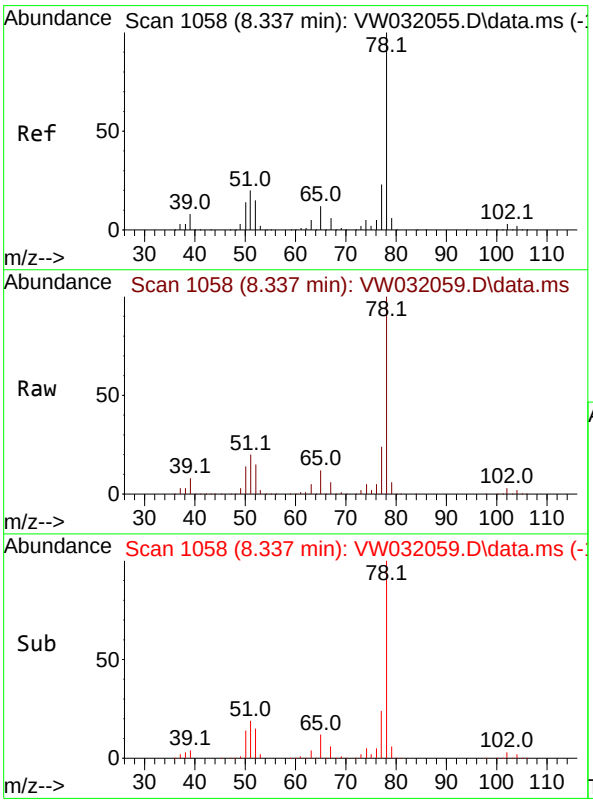
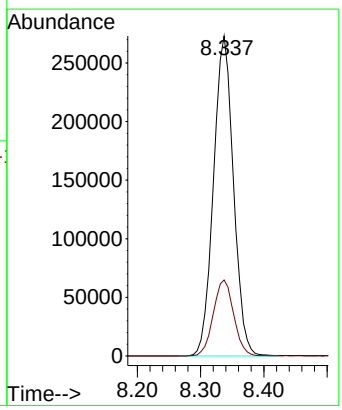
Supervised By :Semsettin Yesilyurt 08/12/2025

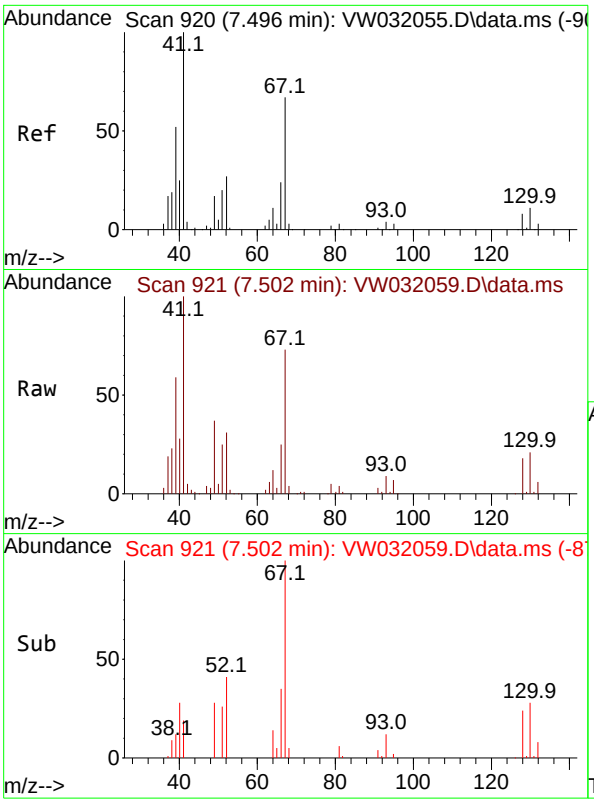


#40
Benzene
Concen: 50.272 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 78 Resp: 598350

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.4	27.6

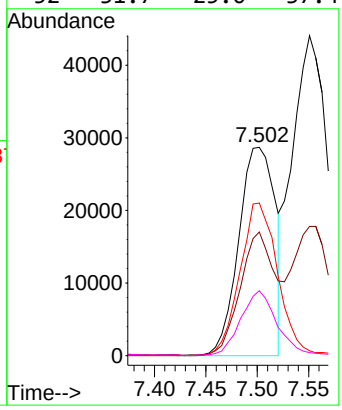




#41
Methacrylonitrile
Concen: 55.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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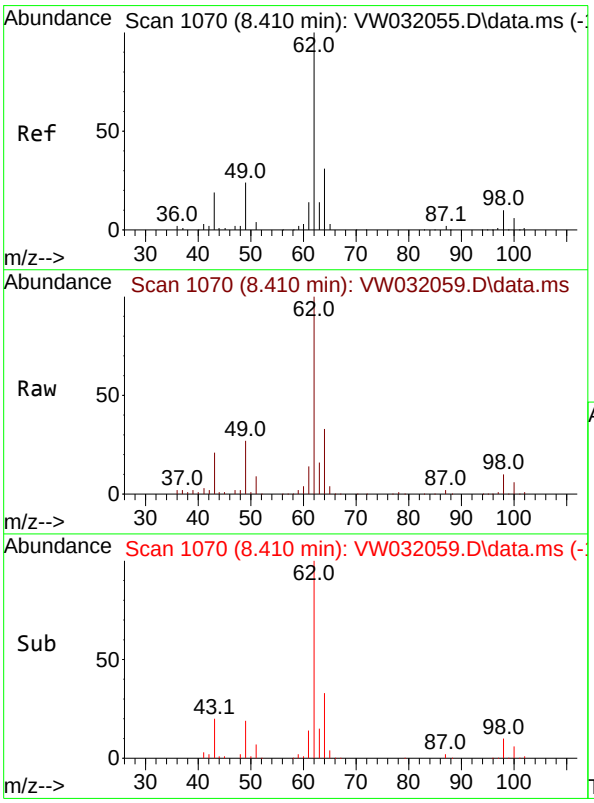
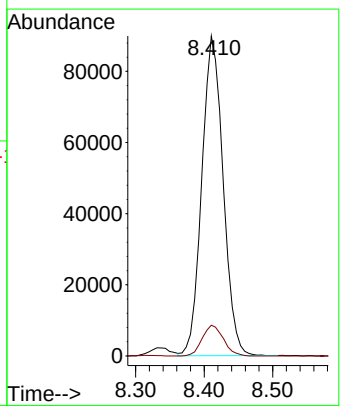
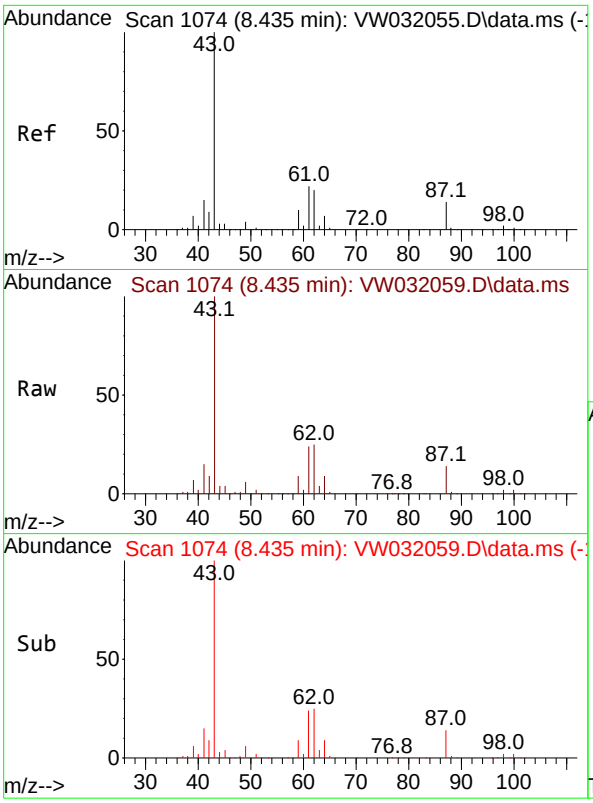


#42
1,2-Dichloroethane
Concen: 51.154 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 194825

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.8

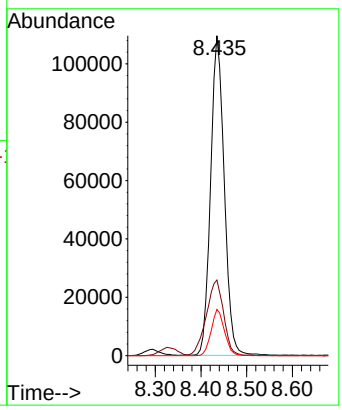




#43
Isopropyl Acetate
Concen: 54.846 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
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ClientSampleId :
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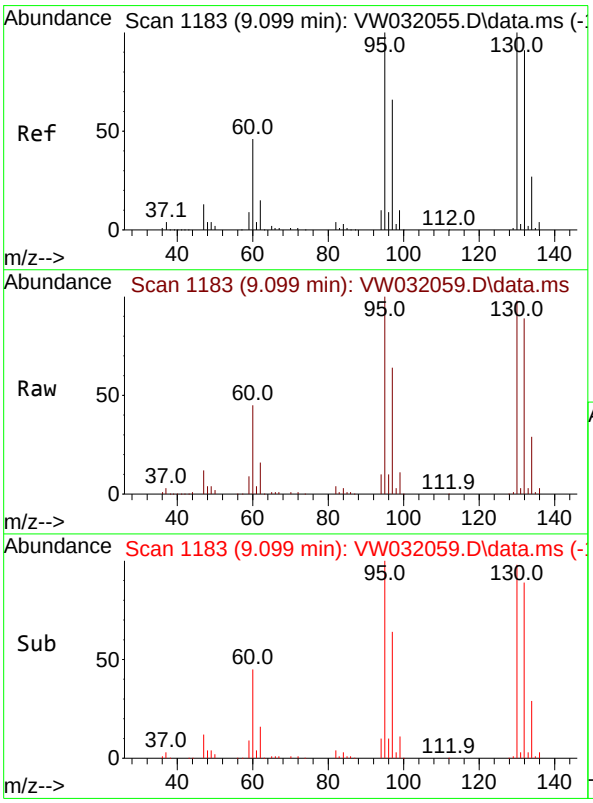
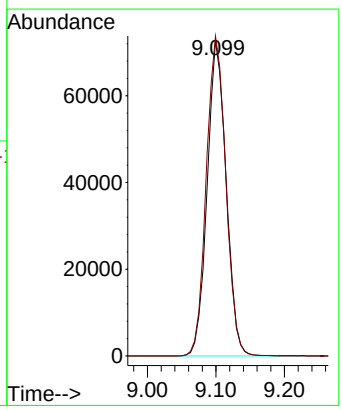
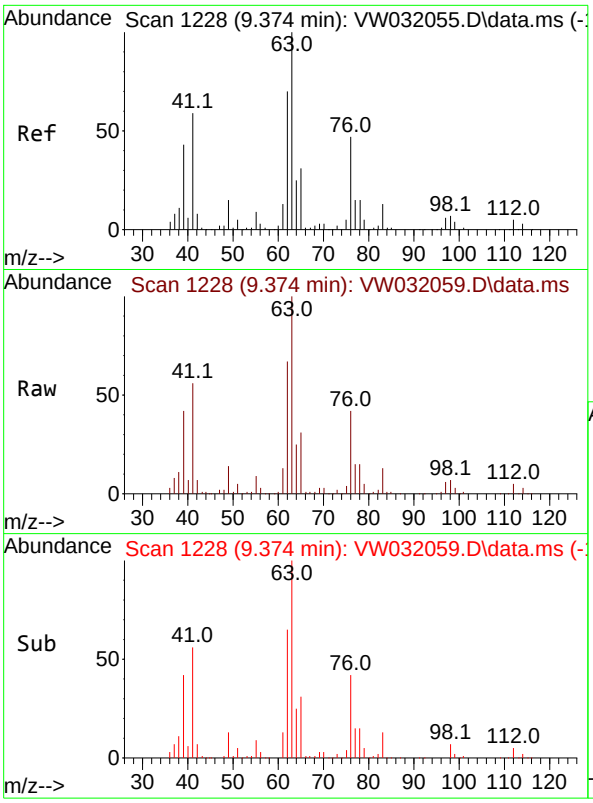


#44
Trichloroethene
Concen: 49.175 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:130 Resp: 139383

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	200.6

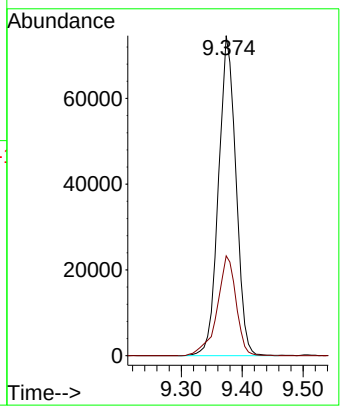




#45
1,2-Dichloropropane
Concen: 51.403 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 14780

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
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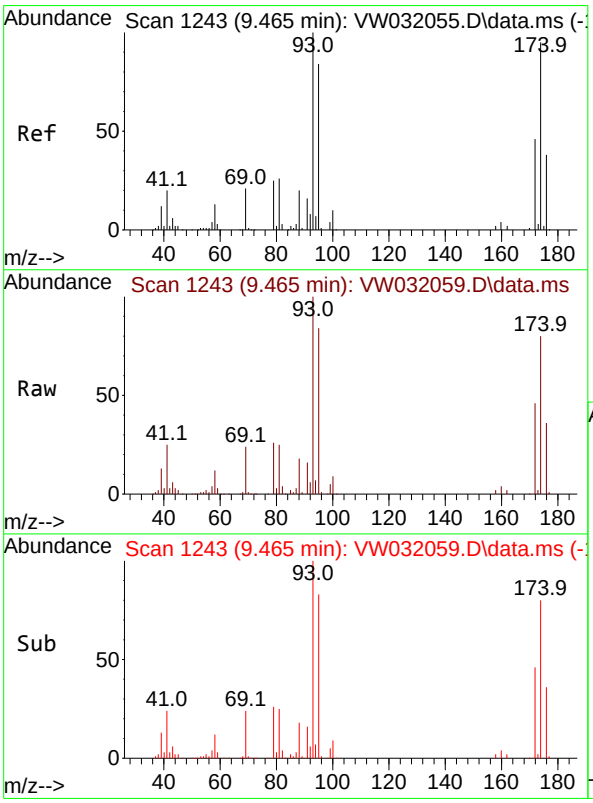
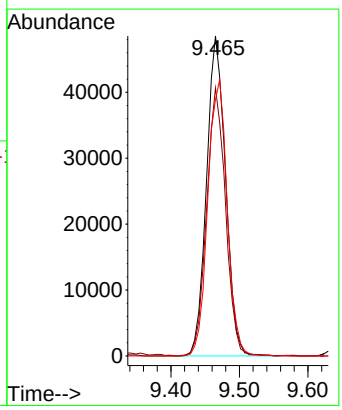
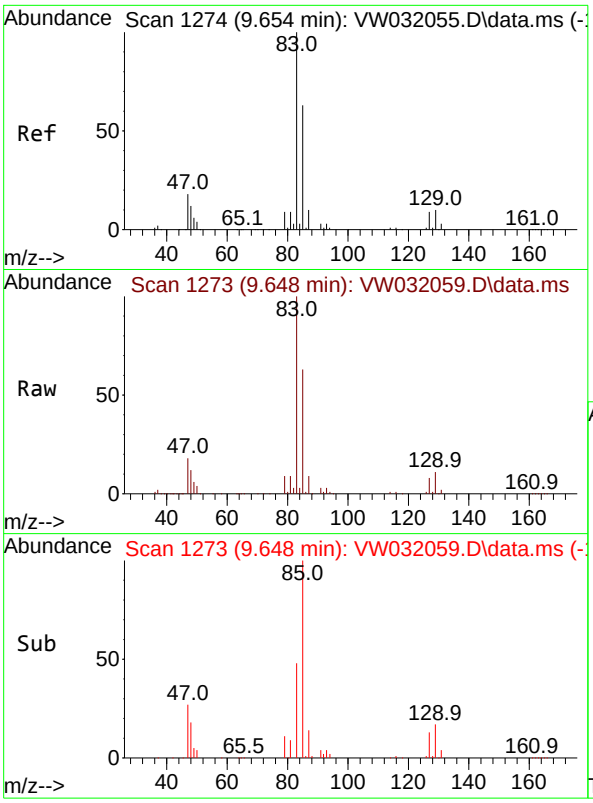


#46
Dibromomethane
Concen: 50.497 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

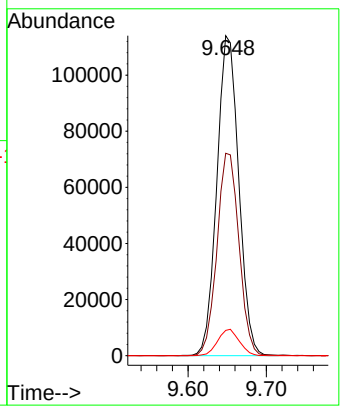




#47
Bromodichloromethane
Concen: 51.775 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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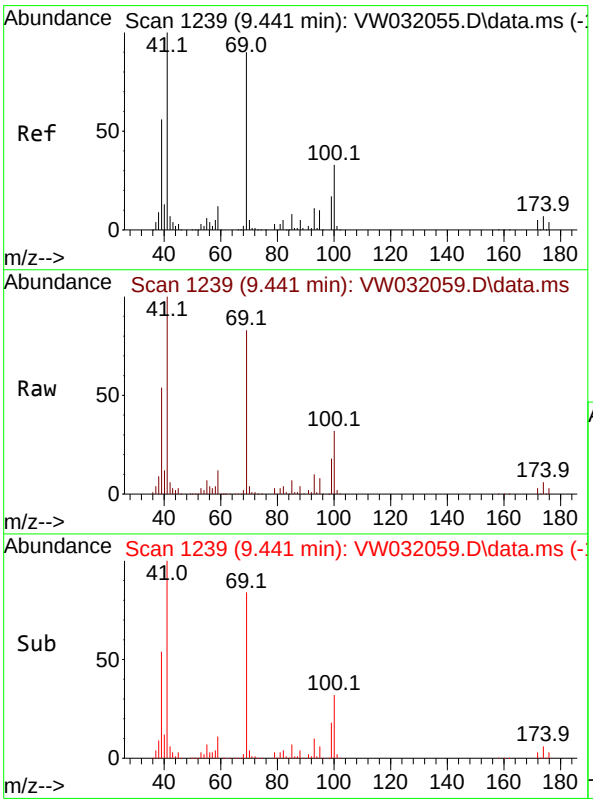
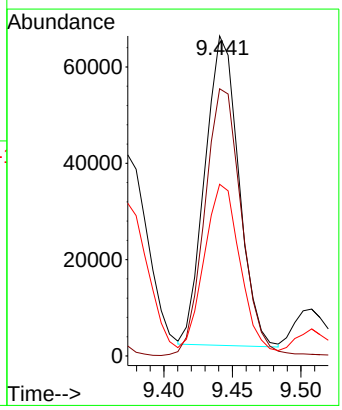
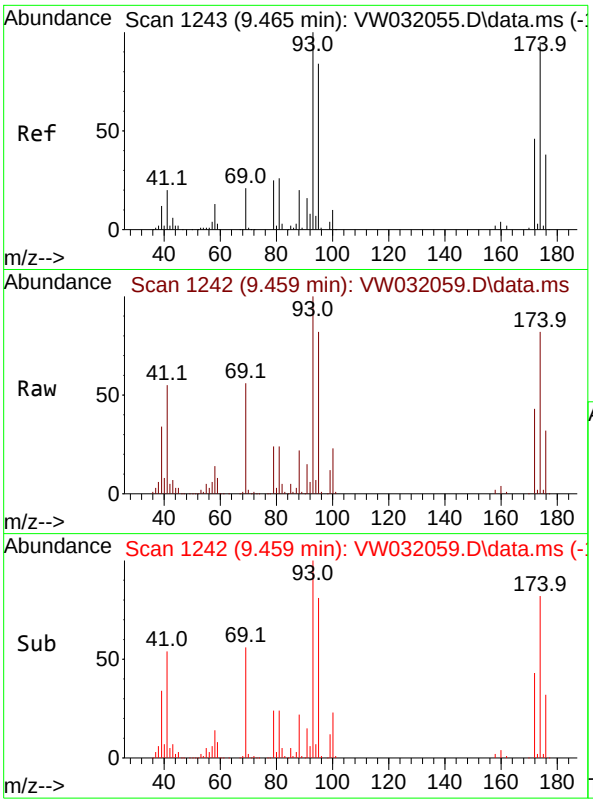


#48
Methyl methacrylate
Concen: 55.048 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

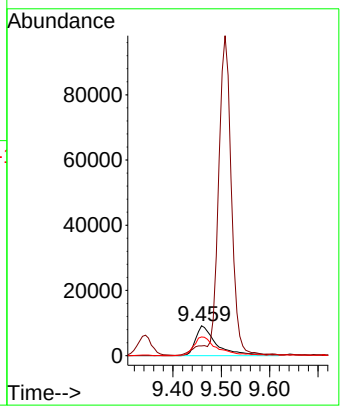




#49
1,4-Dioxane
Concen: 1155.151 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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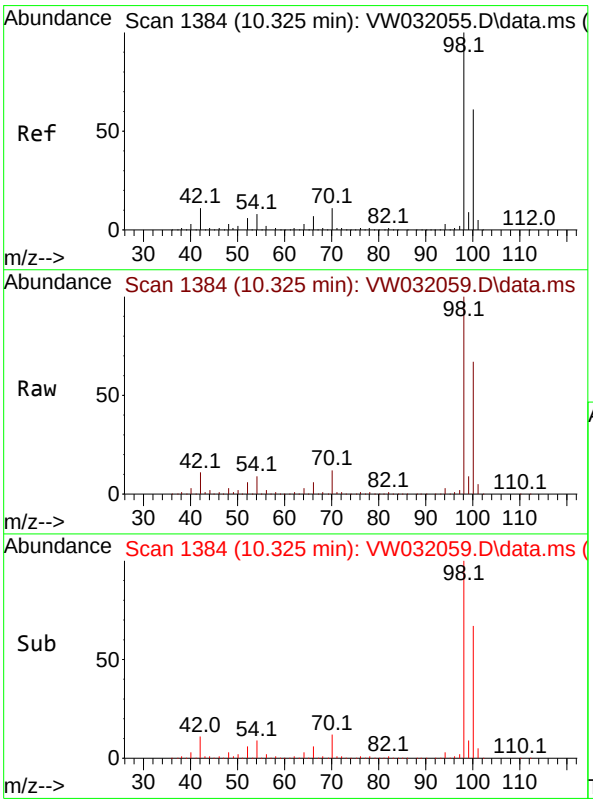
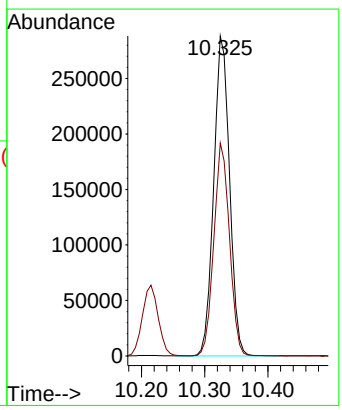
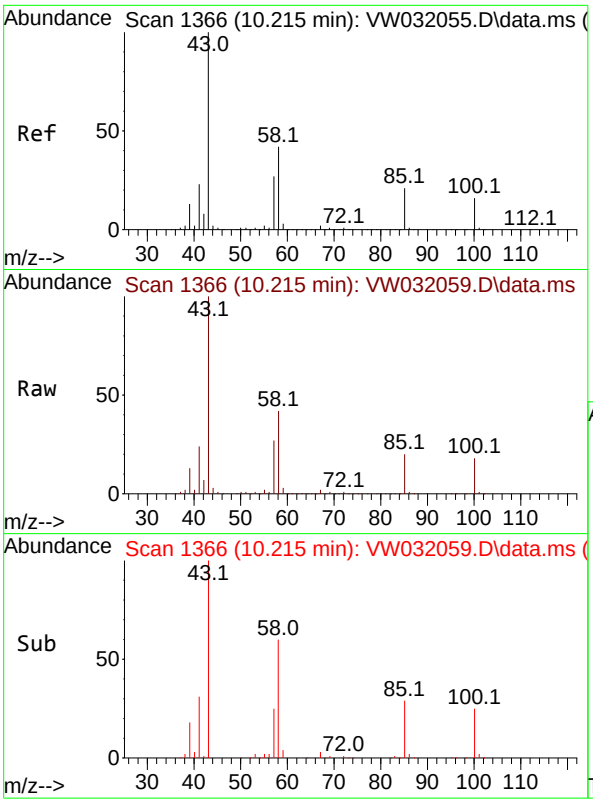


#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 98 Resp: 499377

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.1	76.7

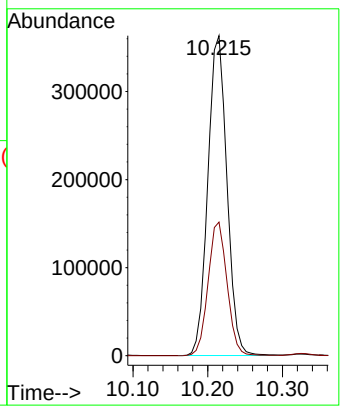




#51
4-Methyl-2-Pentanone
Concen: 275.585 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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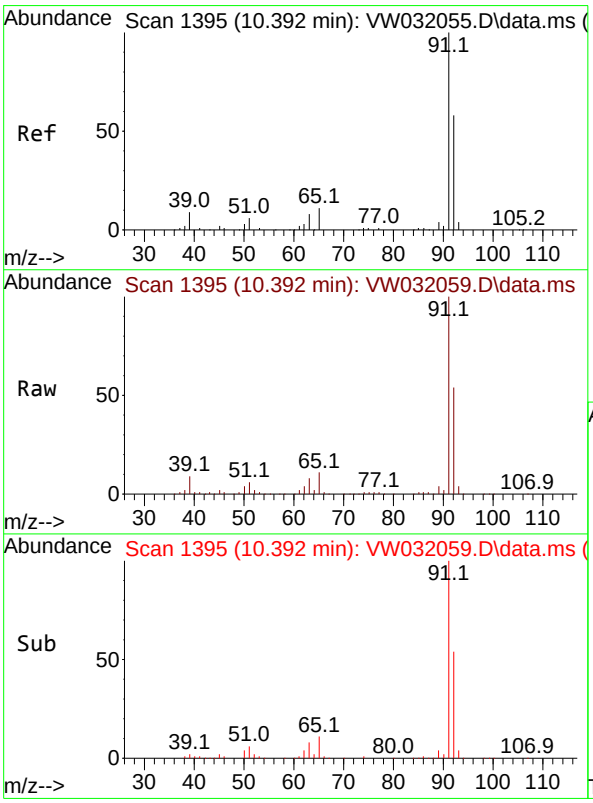
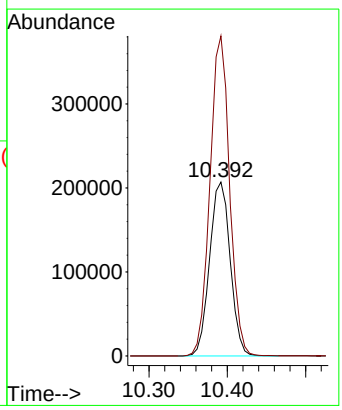
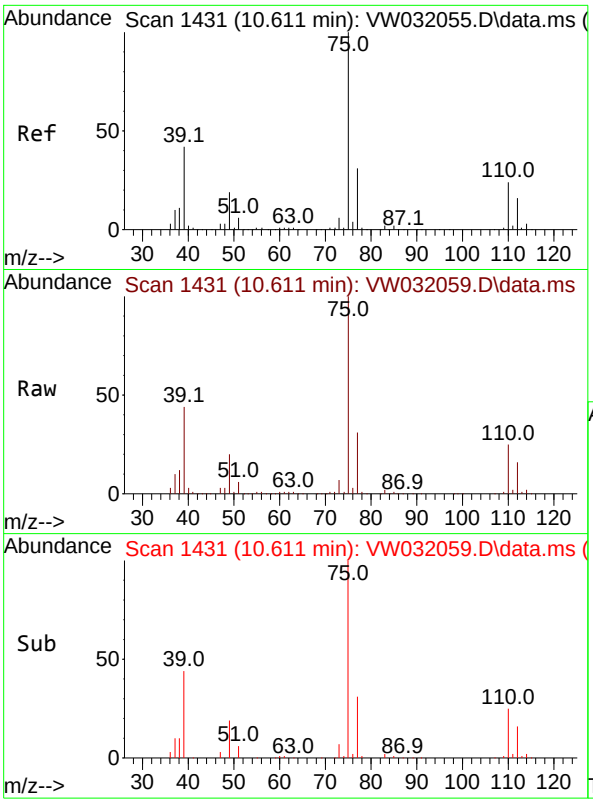


#52
Toluene
Concen: 50.410 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 92 Resp: 377919

Ion	Ratio	Lower	Upper
92	100		
91	175.7	136.3	204.5

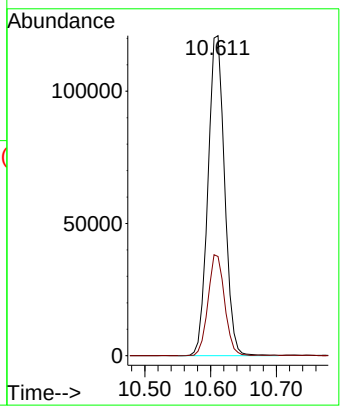




#53
t-1,3-Dichloropropene
Concen: 53.108 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 21277

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6



Instrument :
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ClientSampleId :
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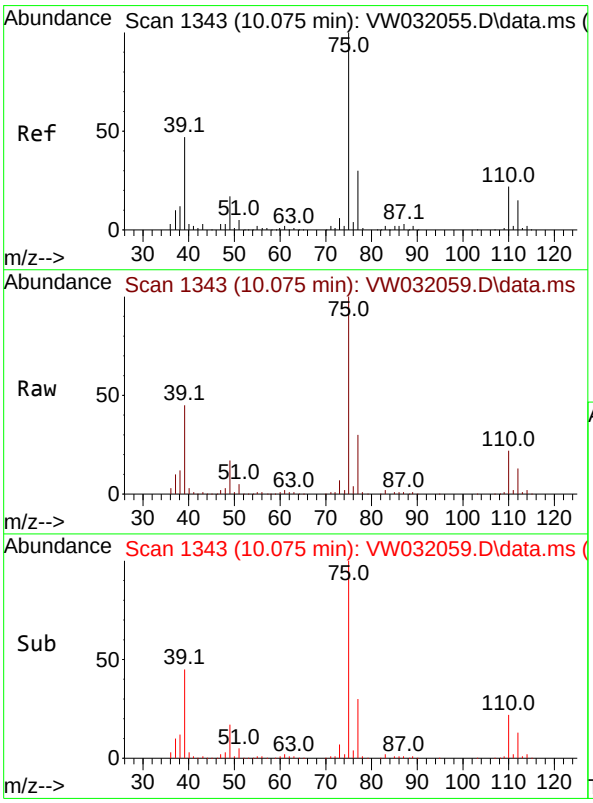
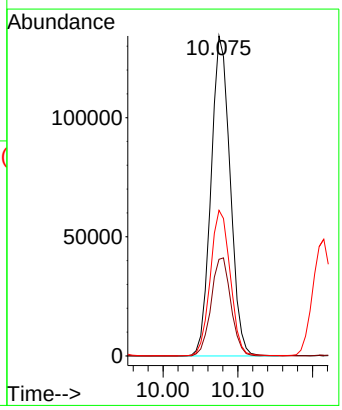
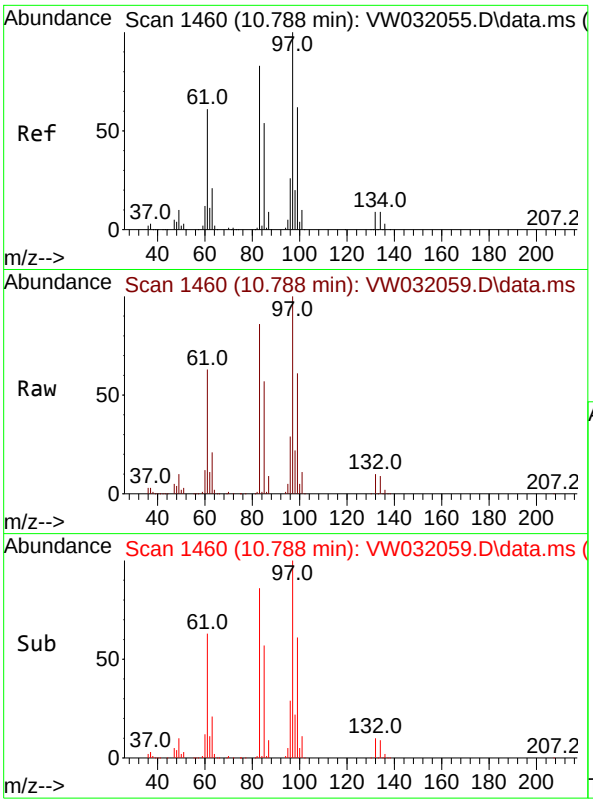


#54
cis-1,3-Dichloropropene
Concen: 52.577 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

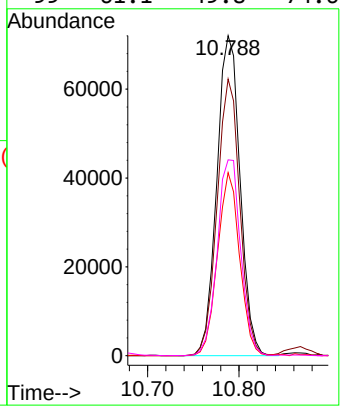




#55
1,1,2-Trichloroethane
Concen: 51.716 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

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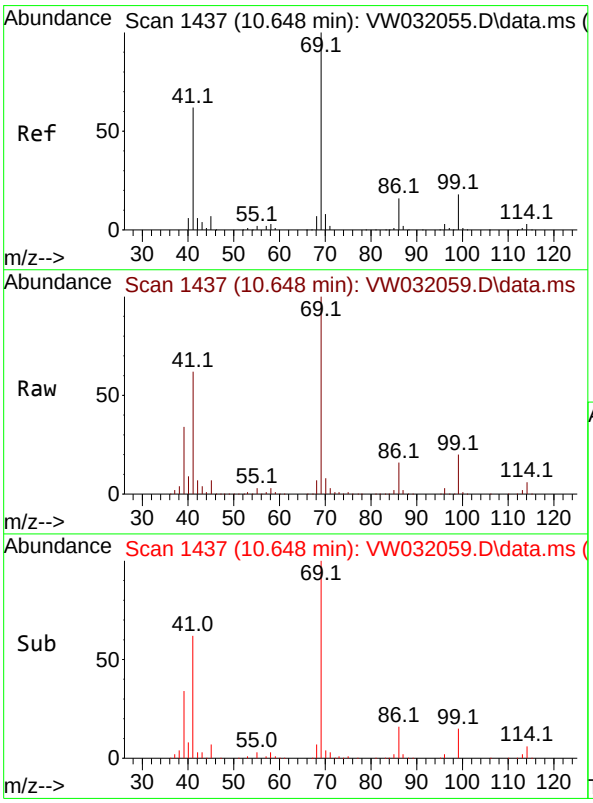
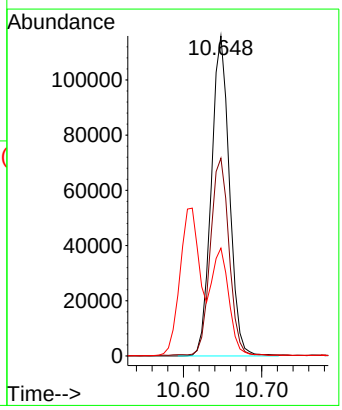
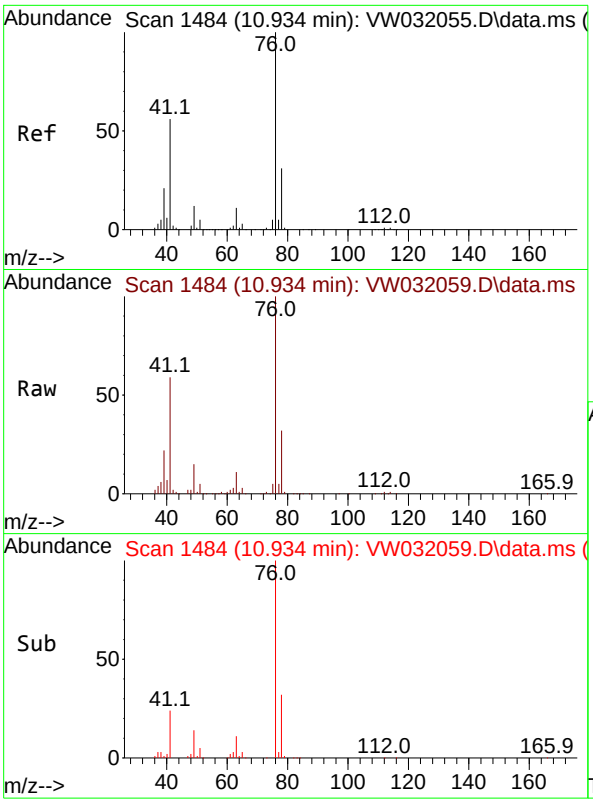


#56
Ethyl methacrylate
Concen: 56.374 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

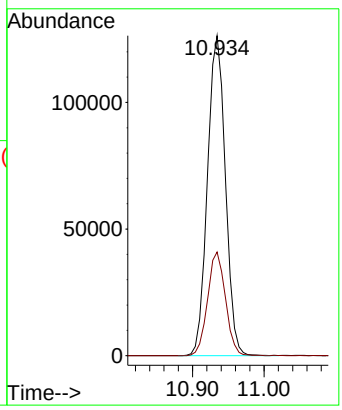




#57
1,3-Dichloropropane
Concen: 51.186 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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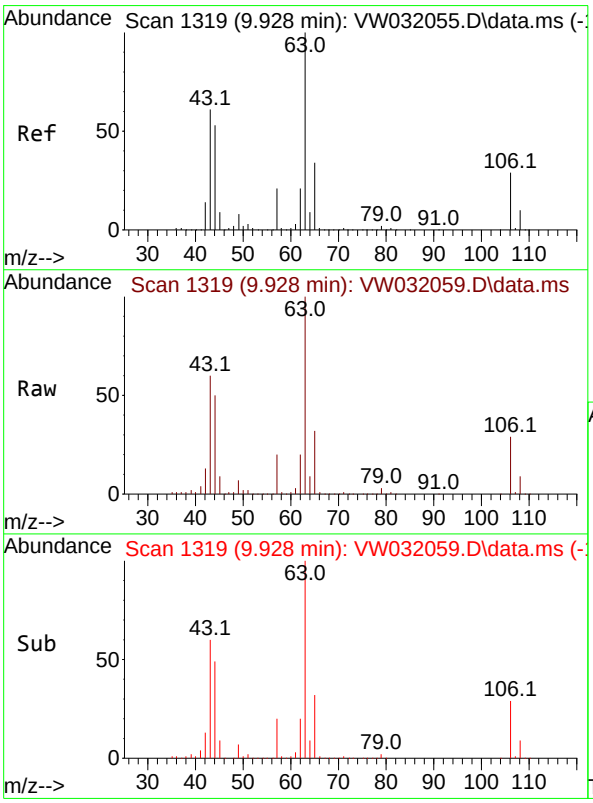
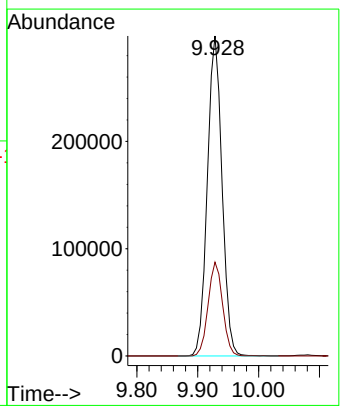
Supervised By :Semsettin Yesilyurt 08/12/2025

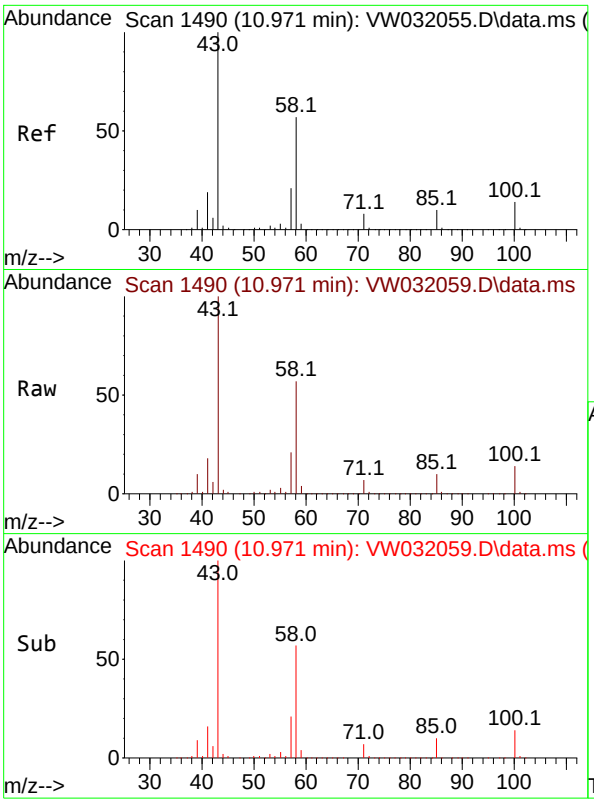


#58
2-Chloroethyl Vinyl ether
Concen: 272.893 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 498131

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3

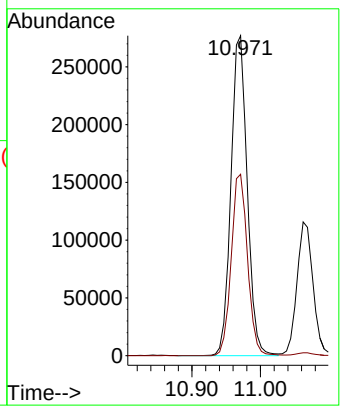




#59
2-Hexanone
Concen: 281.817 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 45708

Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.3	85.0



Instrument :
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ClientSampleId :
ICVVW081125

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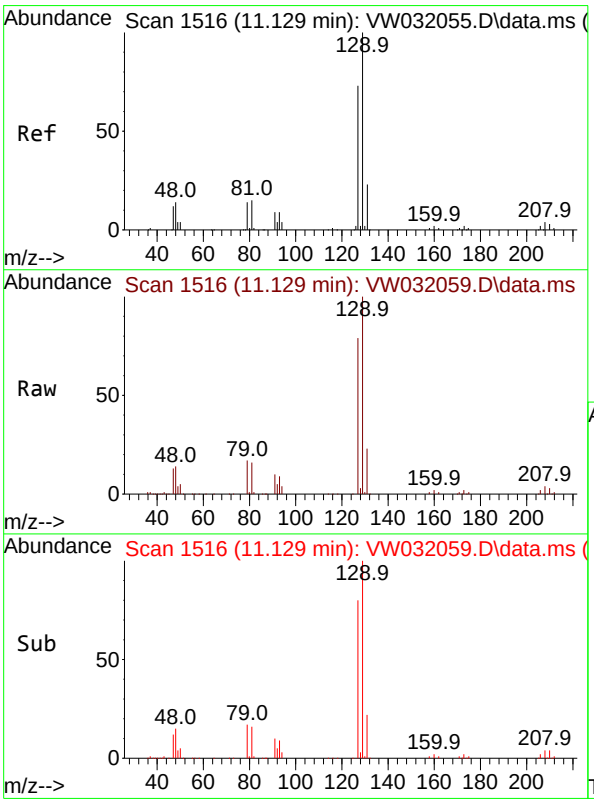
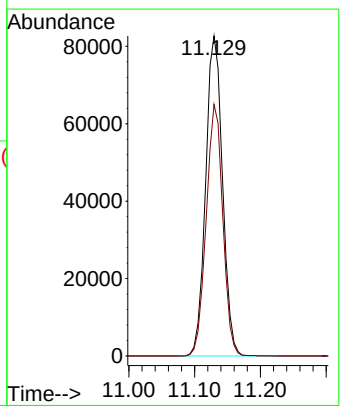
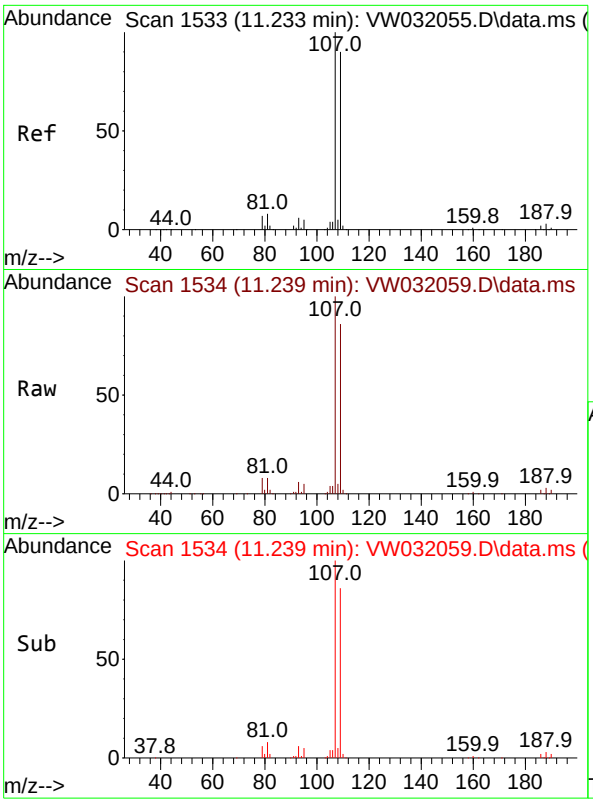


#60
Dibromochloromethane
Concen: 52.276 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:129 Resp: 147264

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.0	116.9

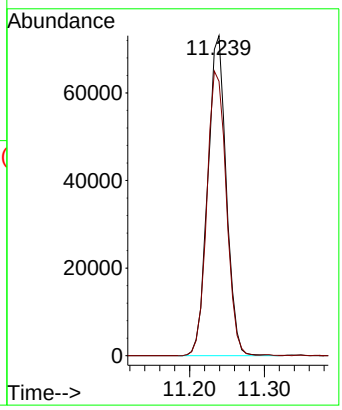




#61
1,2-Dibromoethane
Concen: 52.603 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:107 Resp: 12606

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.2	111.4



Instrument :
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ClientSampleId :
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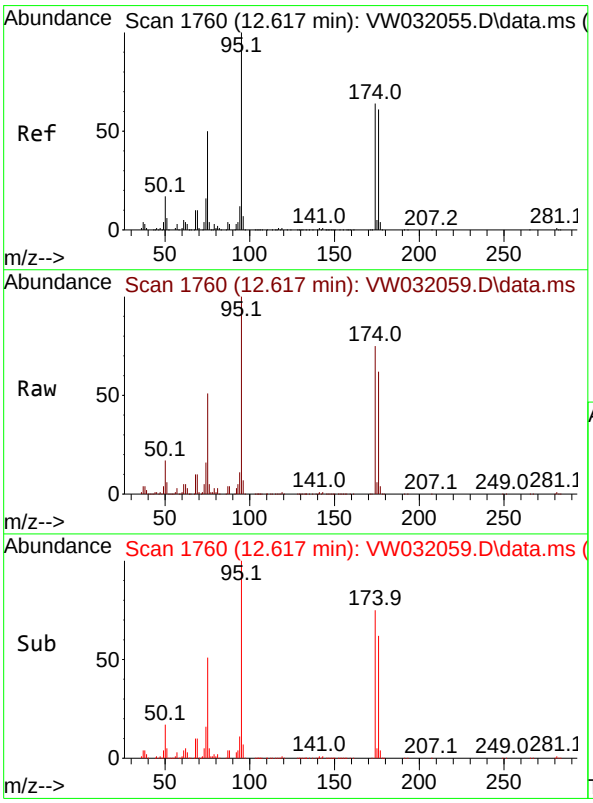
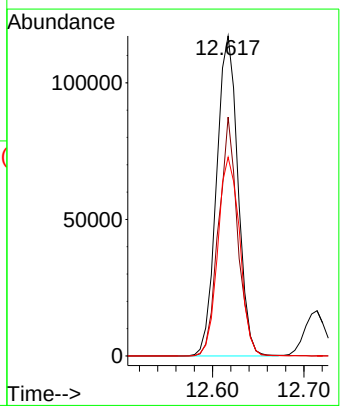
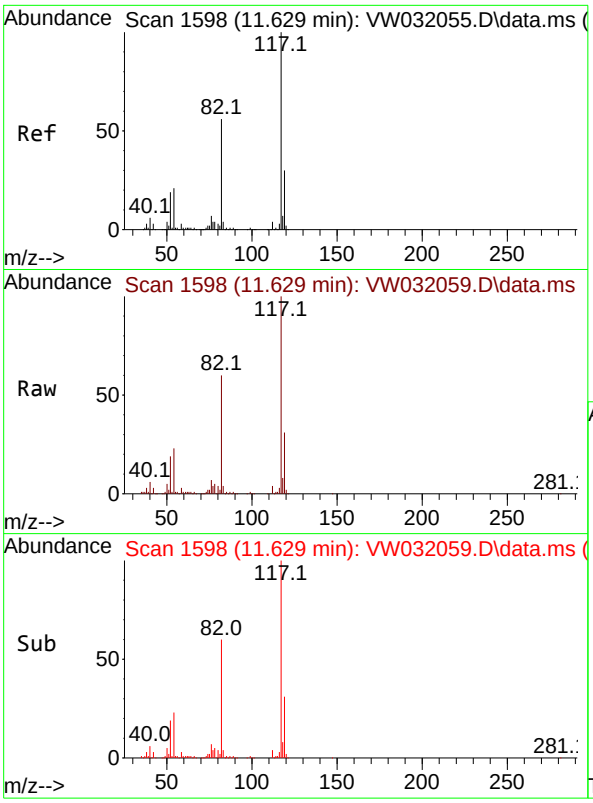


#62
4-Bromofluorobenzene
Concen: 51.460 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

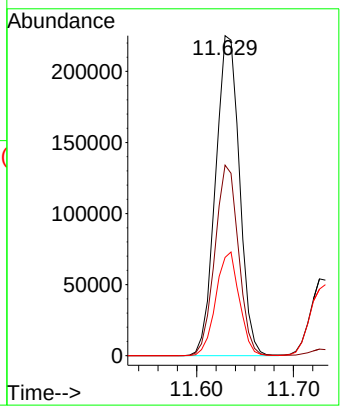




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

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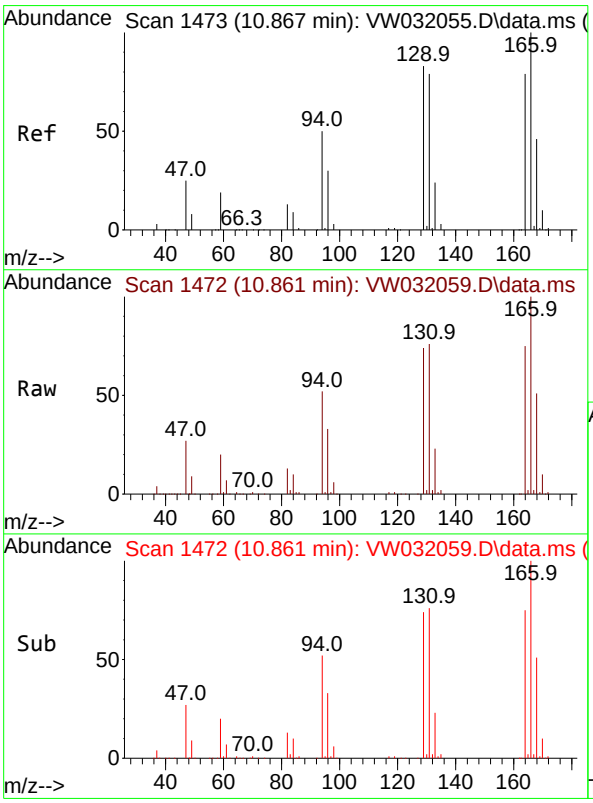
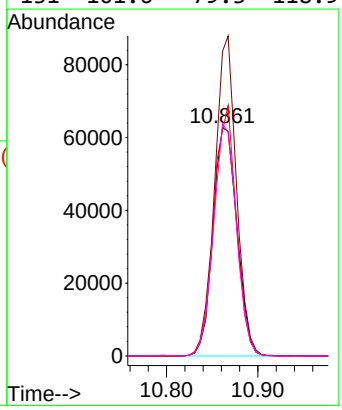
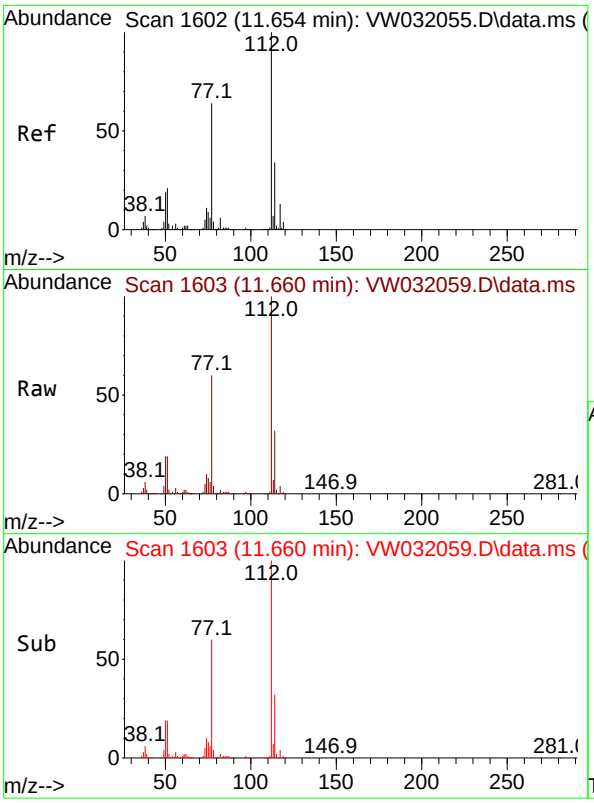


#64
Tetrachloroethene
Concen: 51.245 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

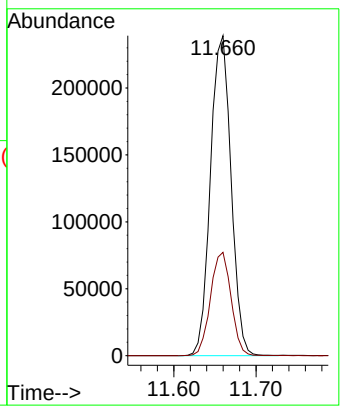




#65
Chlorobenzene
Concen: 49.461 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:112 Resp: 41648

Ion	Ratio	Lower	Upper
112	100		
114	32.3	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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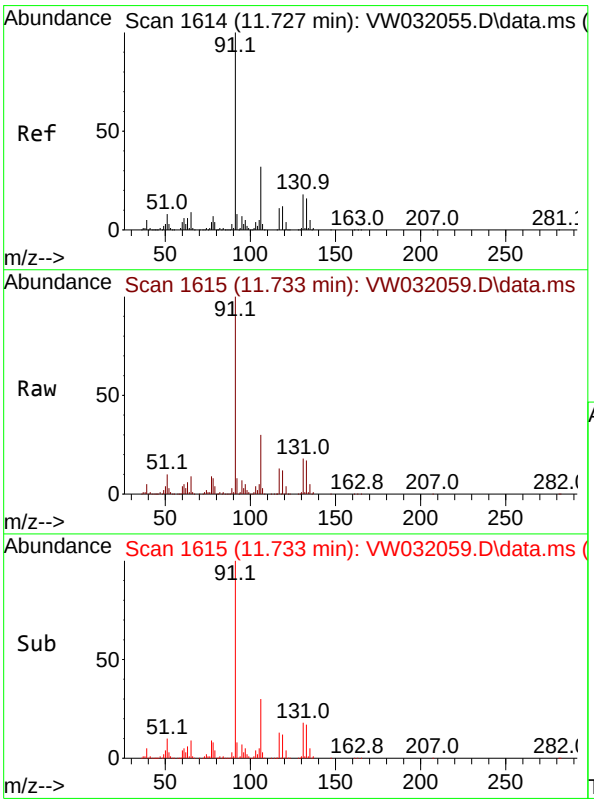
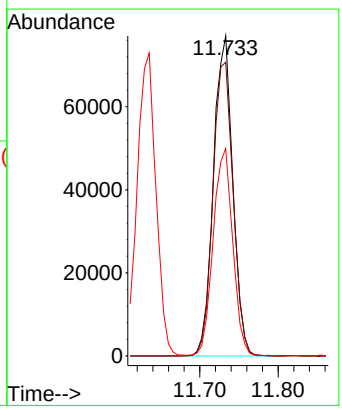
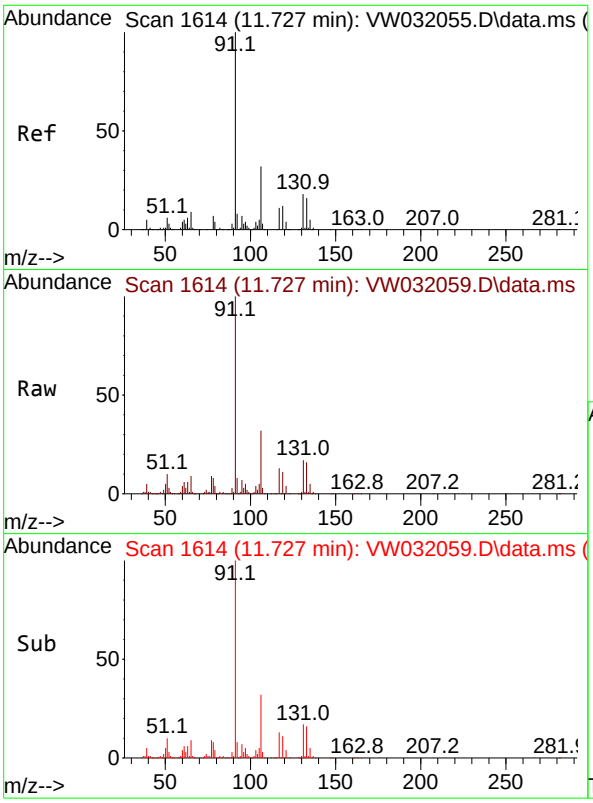


#66
1,1,1,2-Tetrachloroethane
Concen: 50.324 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

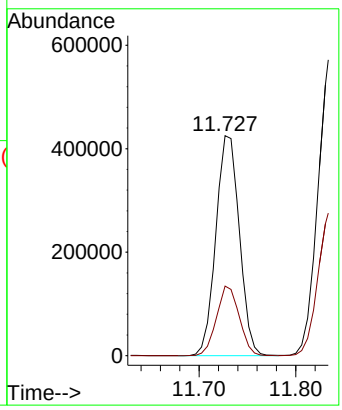




#67
Ethyl Benzene
Concen: 50.253 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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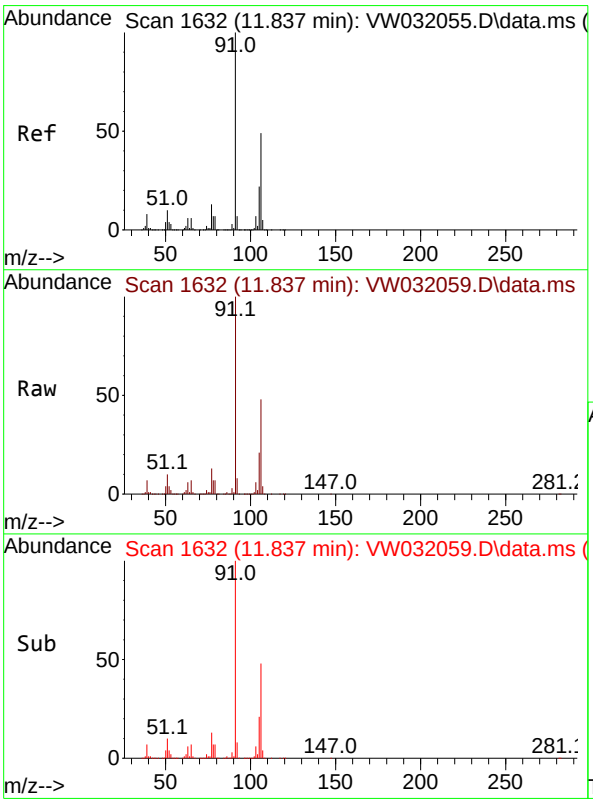
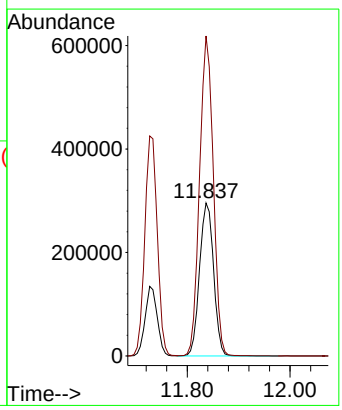
Supervised By :Semsettin Yesilyurt 08/12/2025

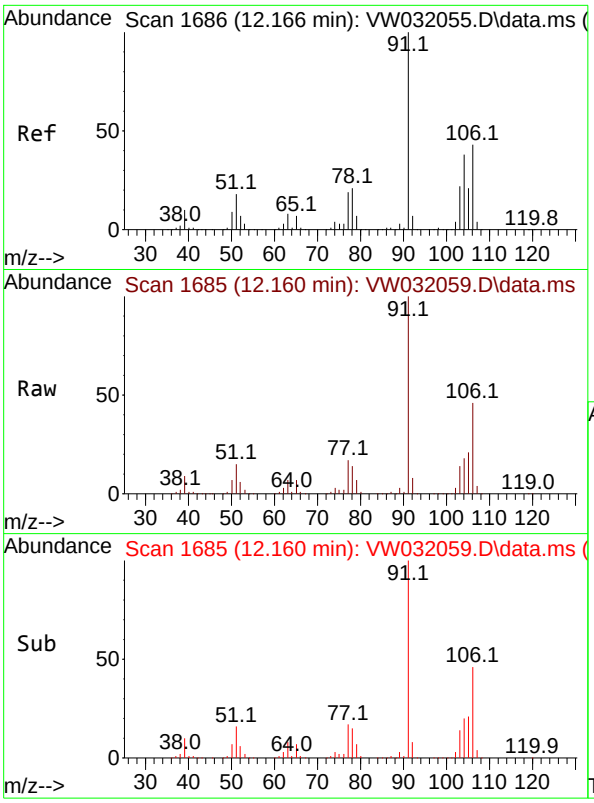


#68
m/p-Xylenes
Concen: 101.607 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 559216

Ion	Ratio	Lower	Upper
106	100		
91	204.9	162.2	243.2

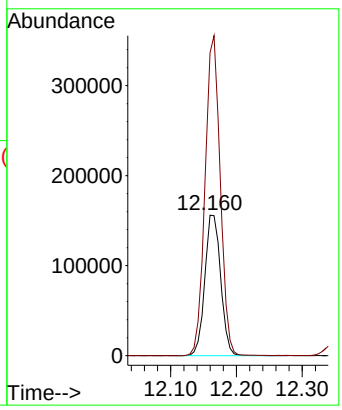




#69
o-Xylene
Concen: 51.416 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 26154

Ion	Ratio	Lower	Upper
106	100		
91	218.6	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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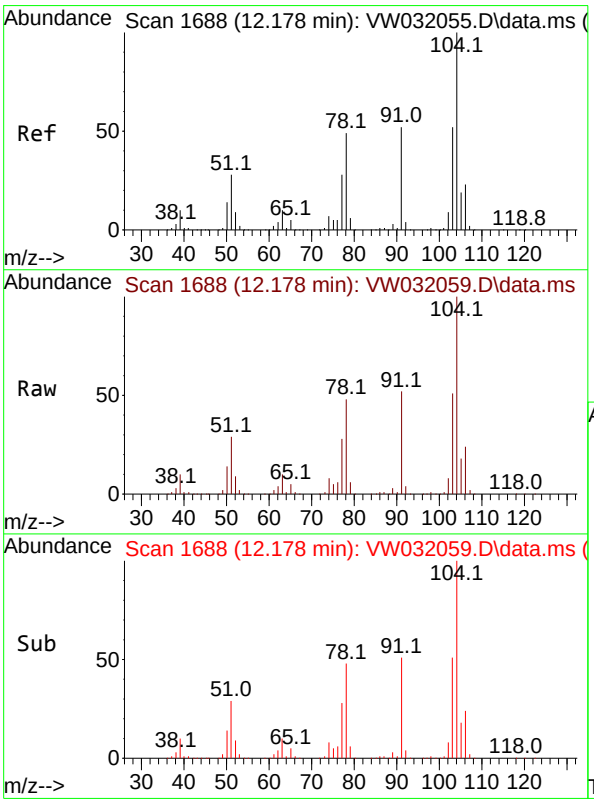
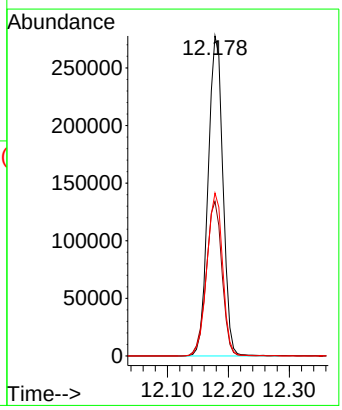
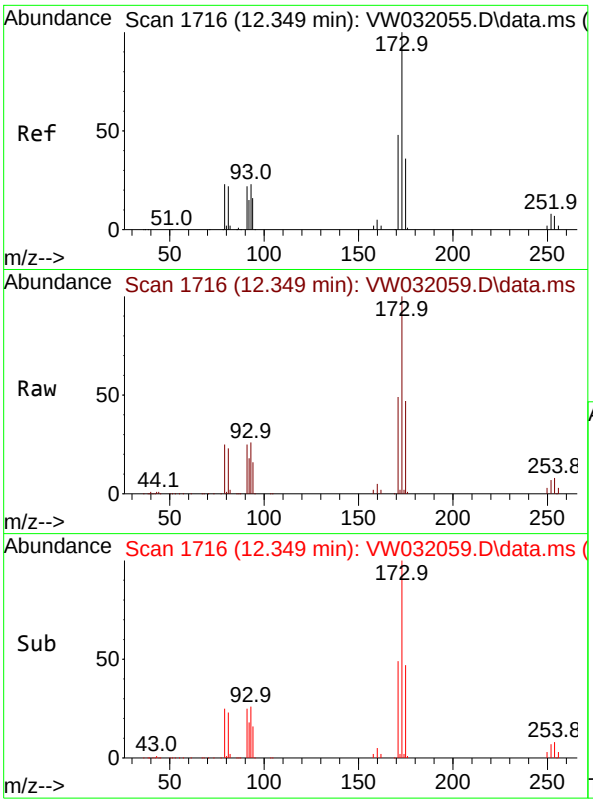


#70
Styrene
Concen: 51.833 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

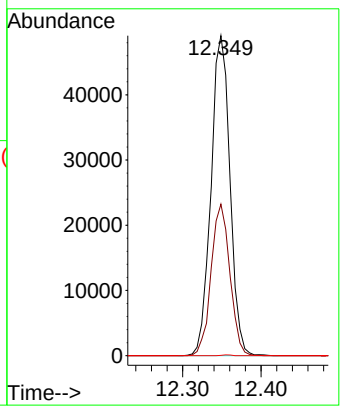




#71
Bromoform
Concen: 54.945 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
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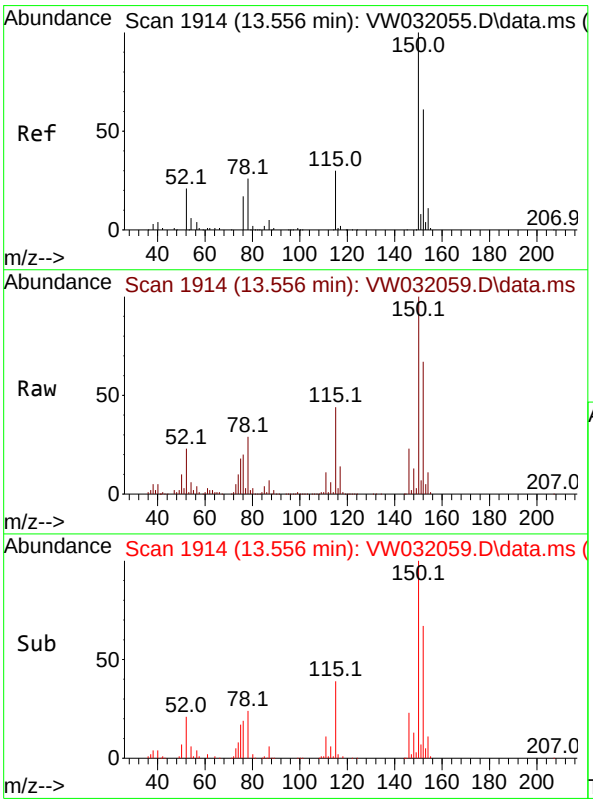
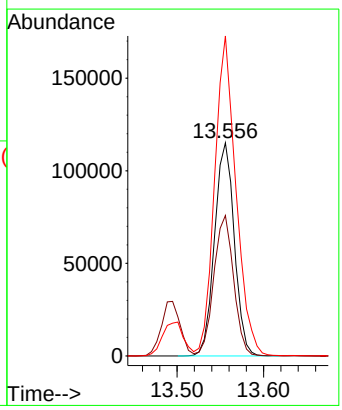
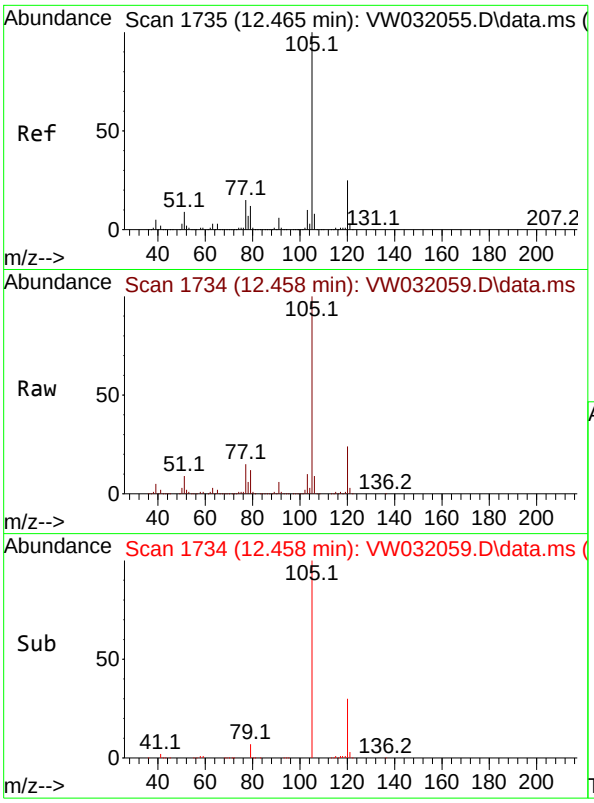


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

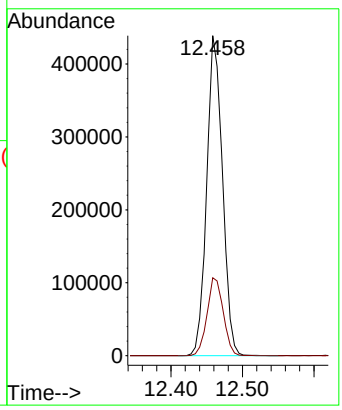




#73
Isopropylbenzene
Concen: 52.571 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 67077

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

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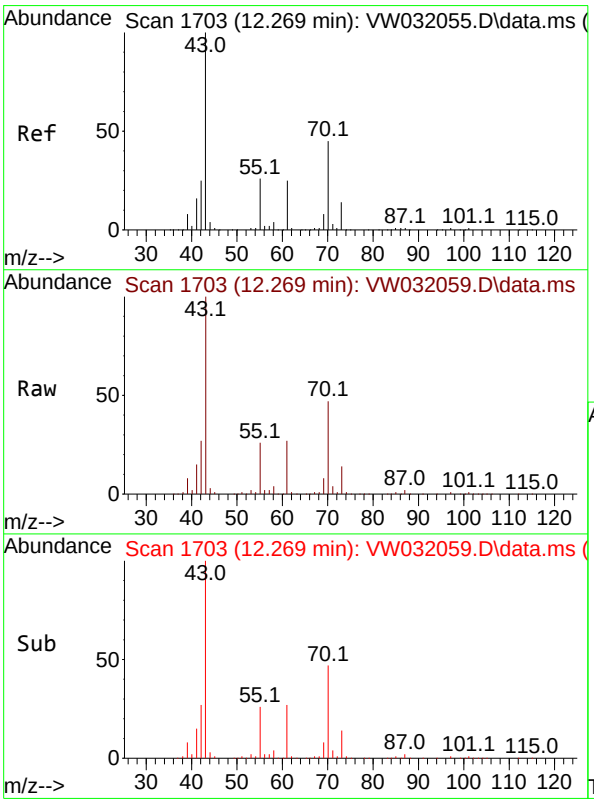
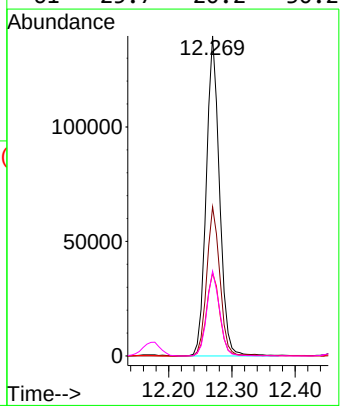
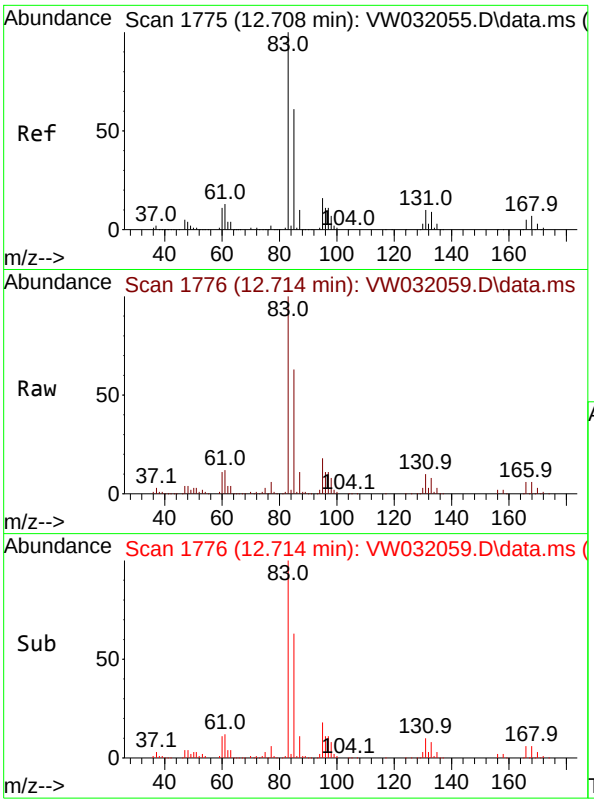


#74
N-amyl acetate
Concen: 55.682 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

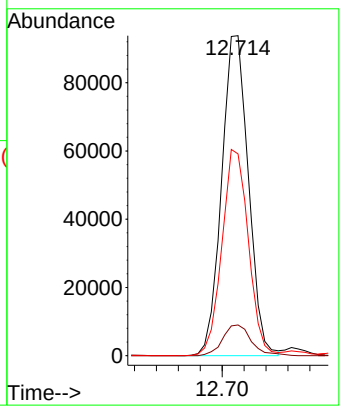




#75
1,1,2,2-Tetrachloroethane
Concen: 52.514 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

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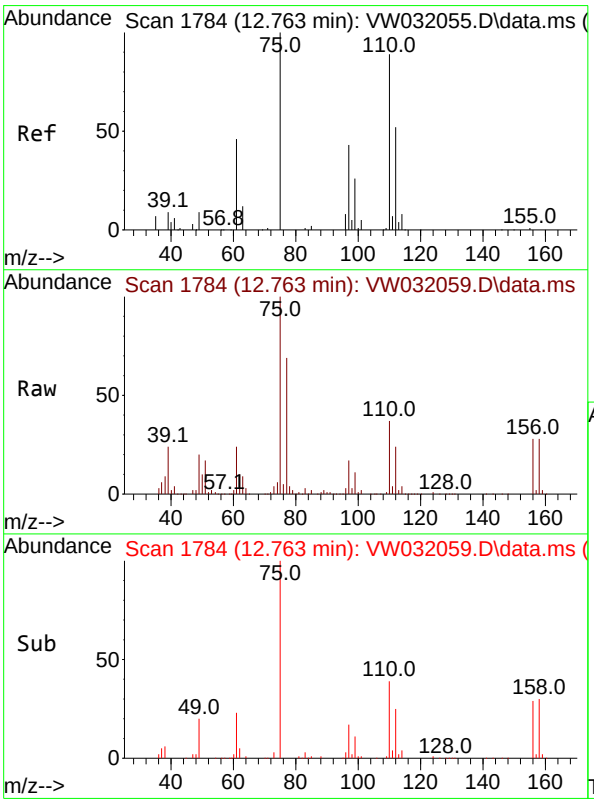
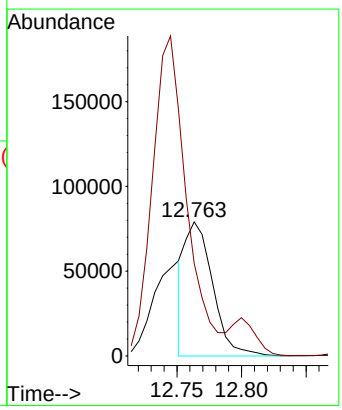
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

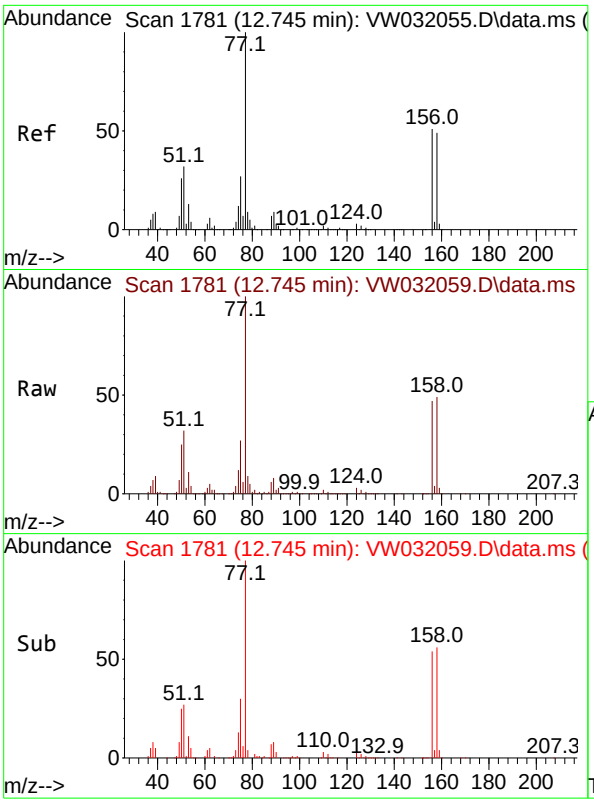


#76
1,2,3-Trichloropropane
Concen: 48.091 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 119168

Ion	Ratio	Lower	Upper
75	100		
77	294.4	123.5	370.5

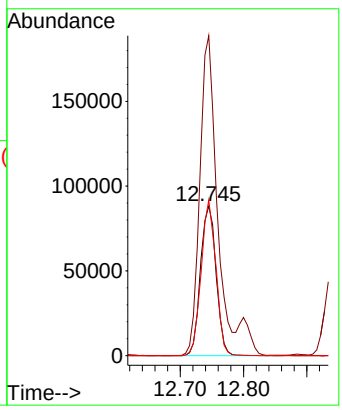




#77
Bromobenzene
Concen: 49.886 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

Manual Integrations
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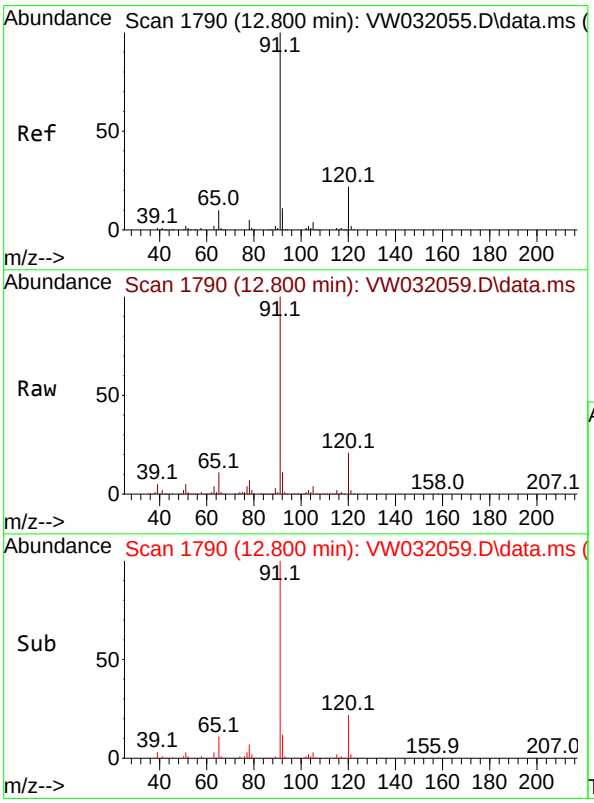
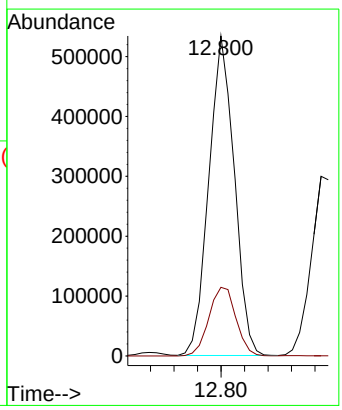
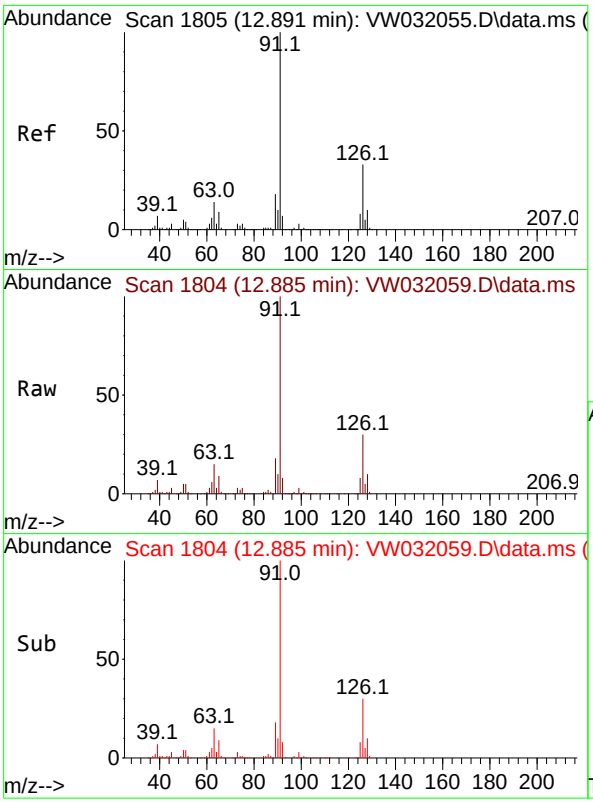


#78
n-propylbenzene
Concen: 51.148 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 803474

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.3

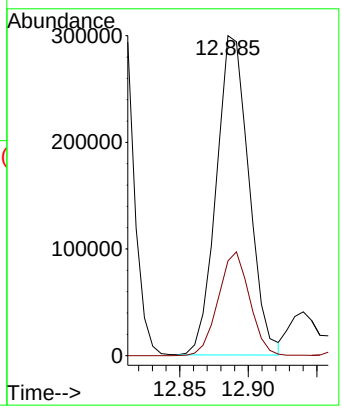




#79
2-Chlorotoluene
Concen: 51.114 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 49556

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.9	47.7



Instrument :
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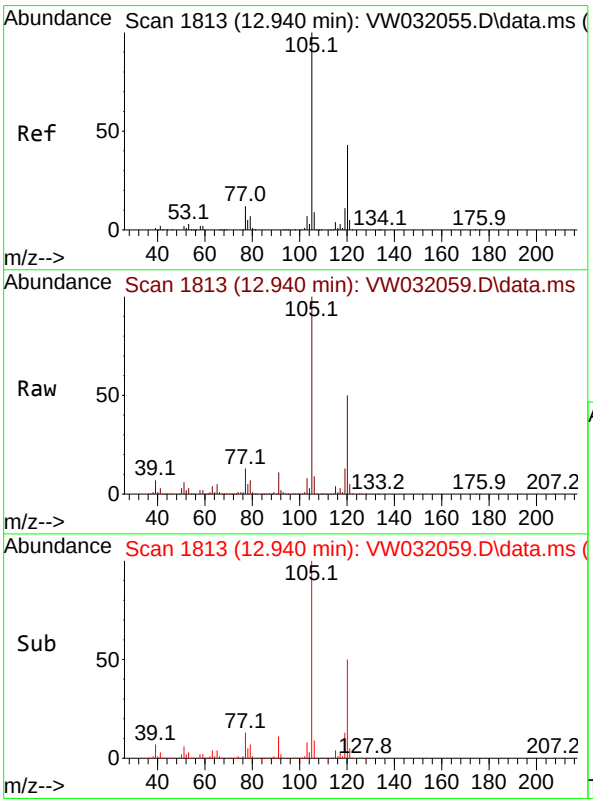
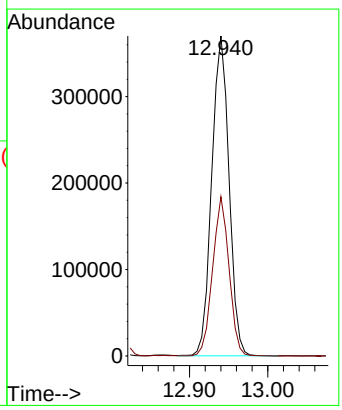
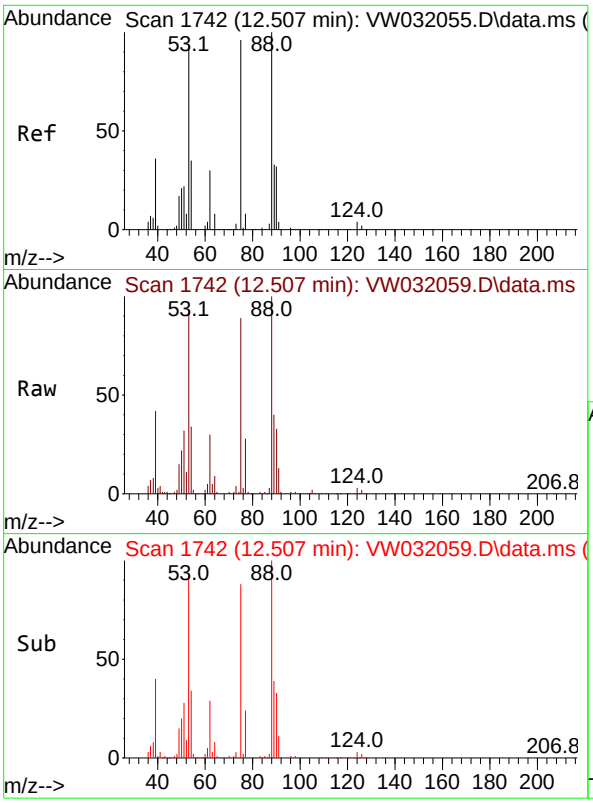


#80
1,3,5-Trimethylbenzene
Concen: 52.291 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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 :
ICVVW081125

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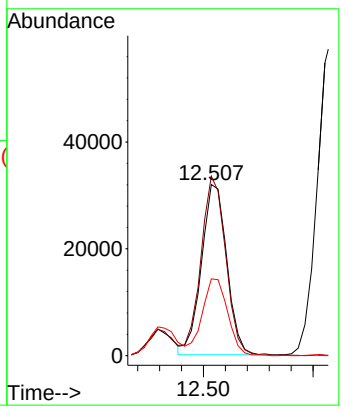
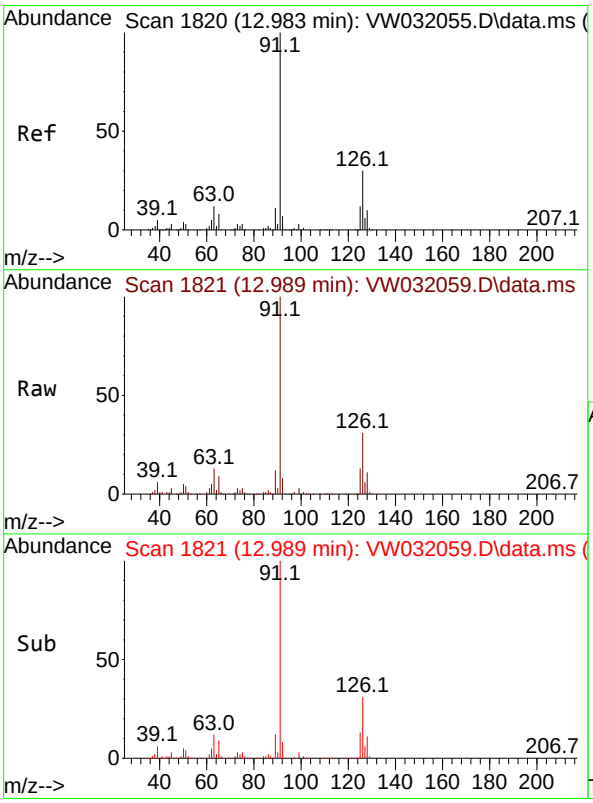
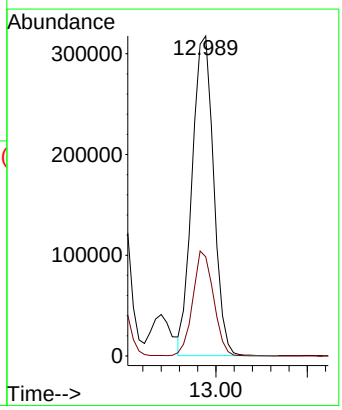


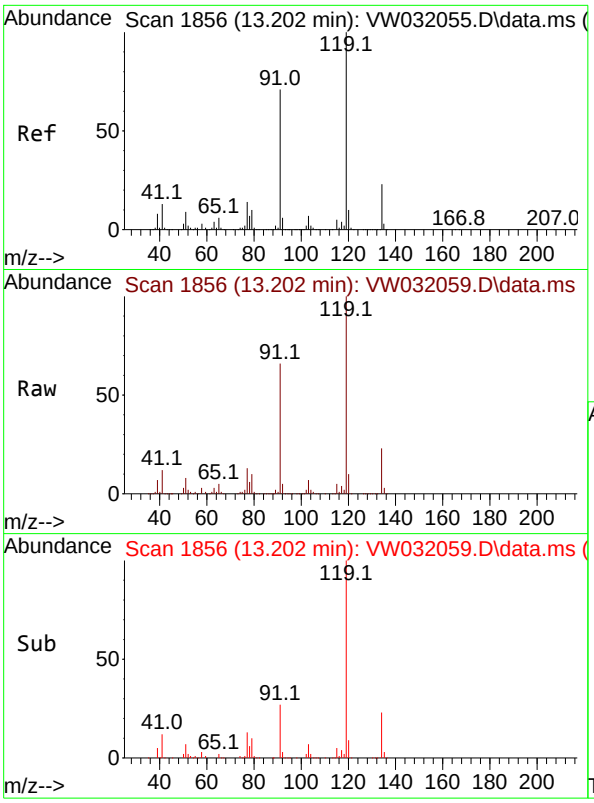


#82
4-Chlorotoluene
Concen: 50.312 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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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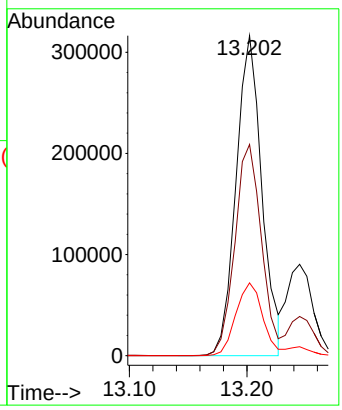
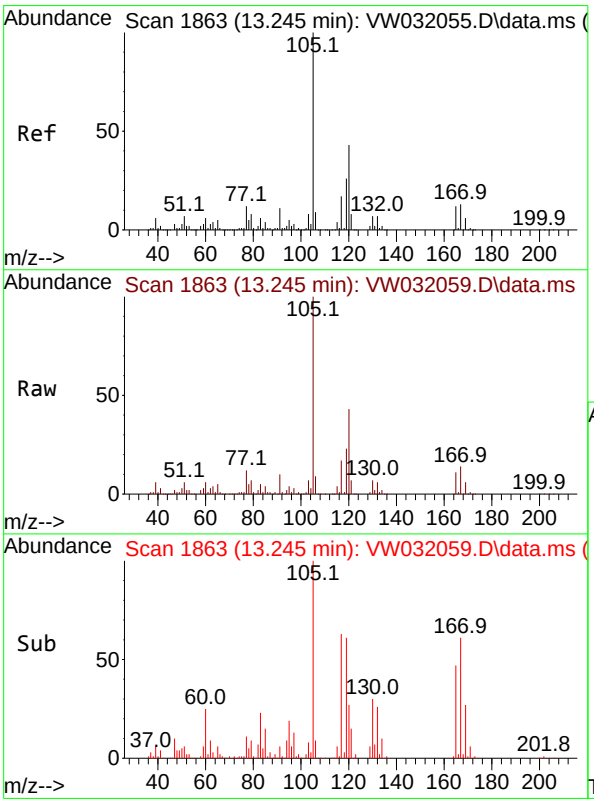
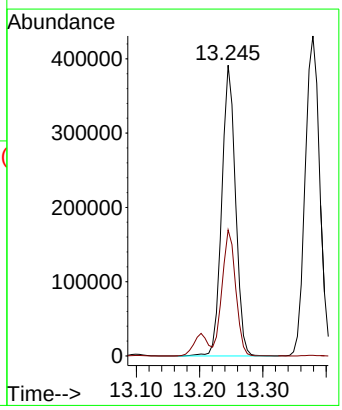


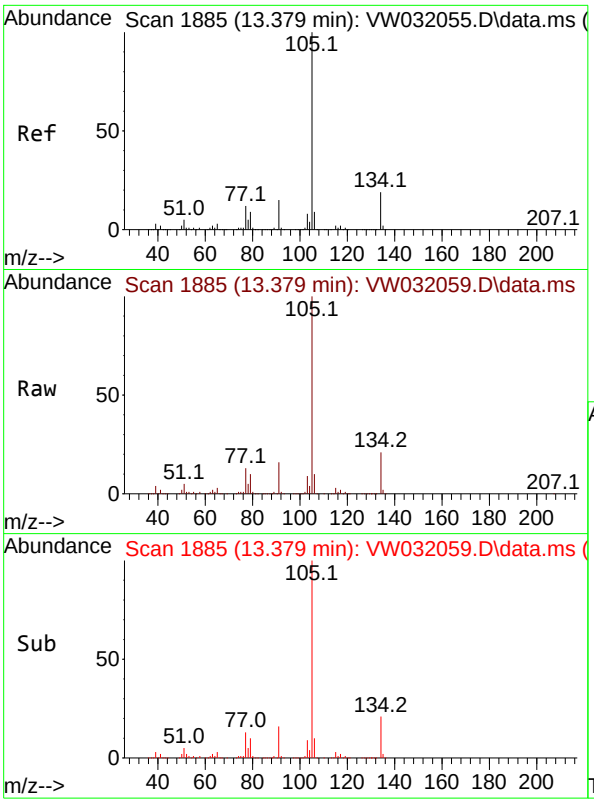


#84
1,2,4-Trimethylbenzene
Concen: 53.308 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 587831

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.6	64.8

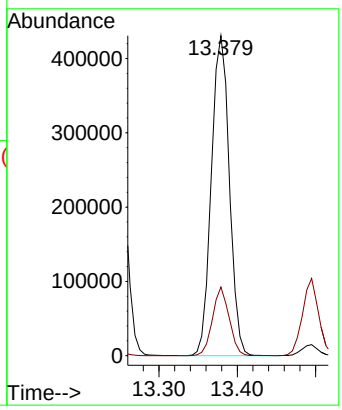




#85
sec-Butylbenzene
Concen: 50.571 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 68736

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations APPROVED

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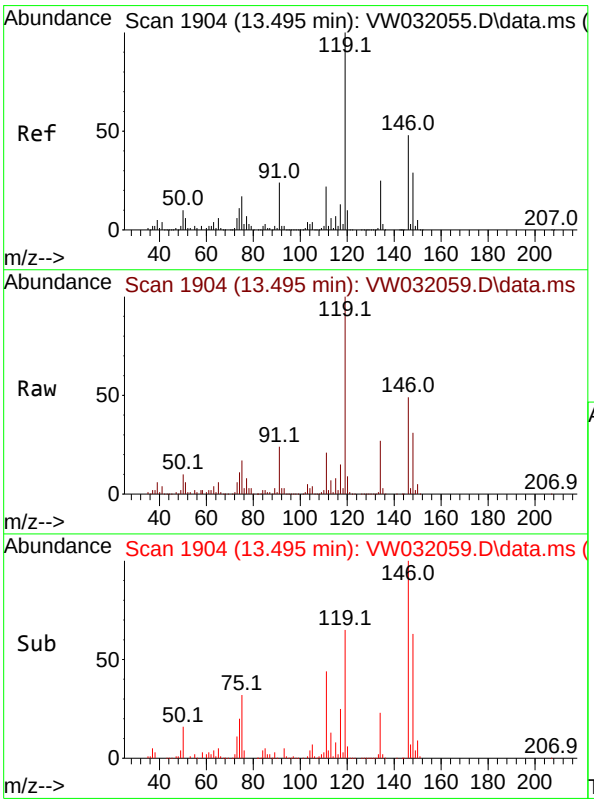
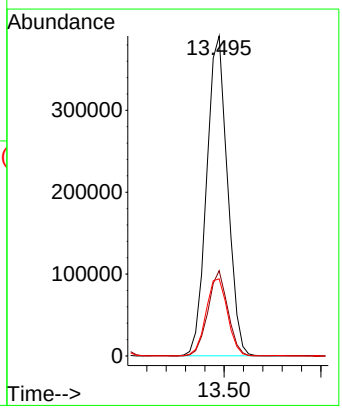
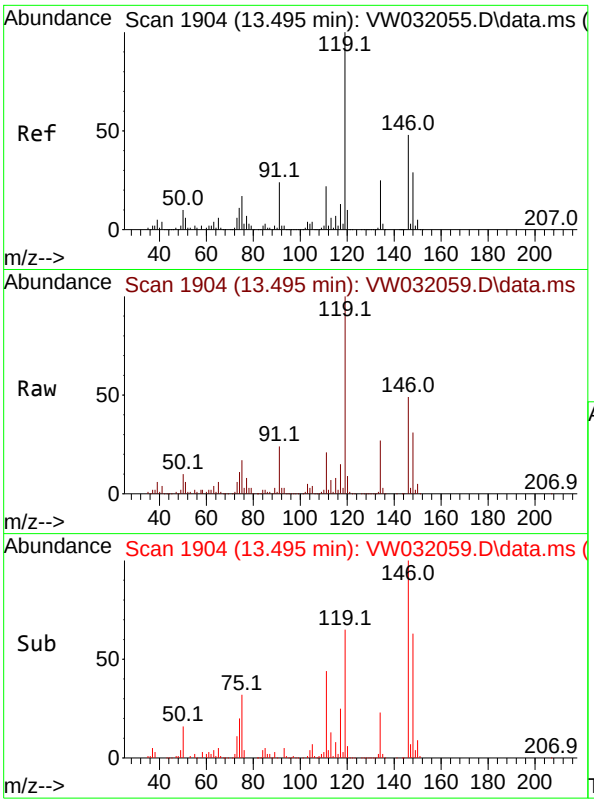


#86
p-Isopropyltoluene
Concen: 51.580 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

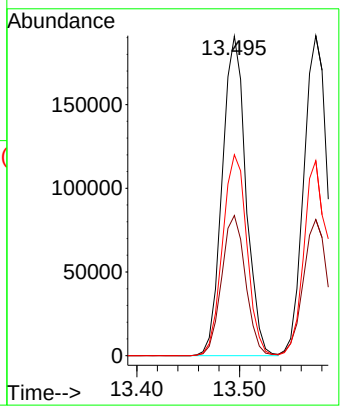




#87
1,3-Dichlorobenzene
Concen: 50.304 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

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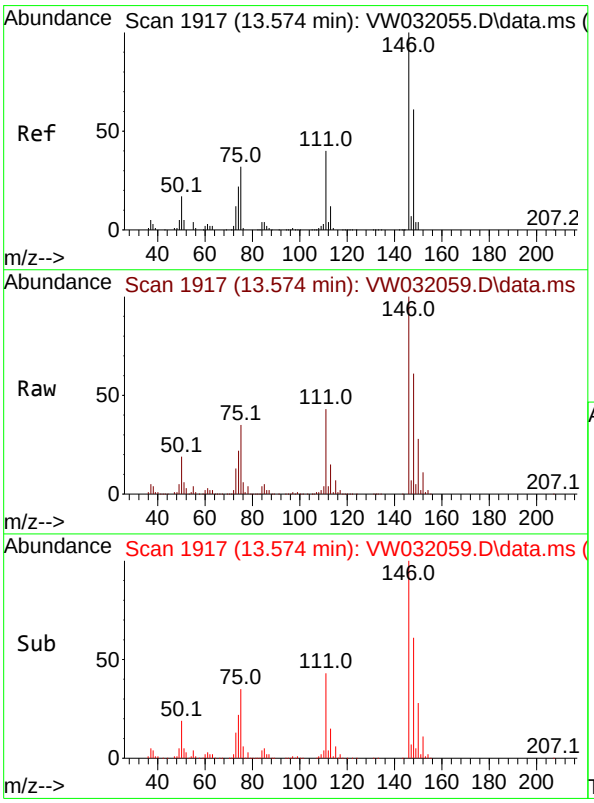
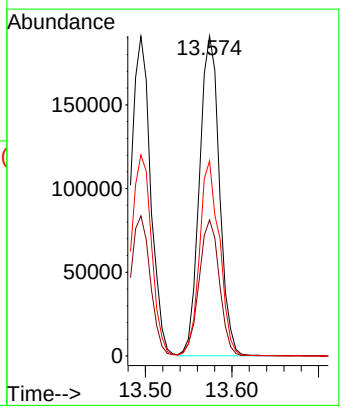
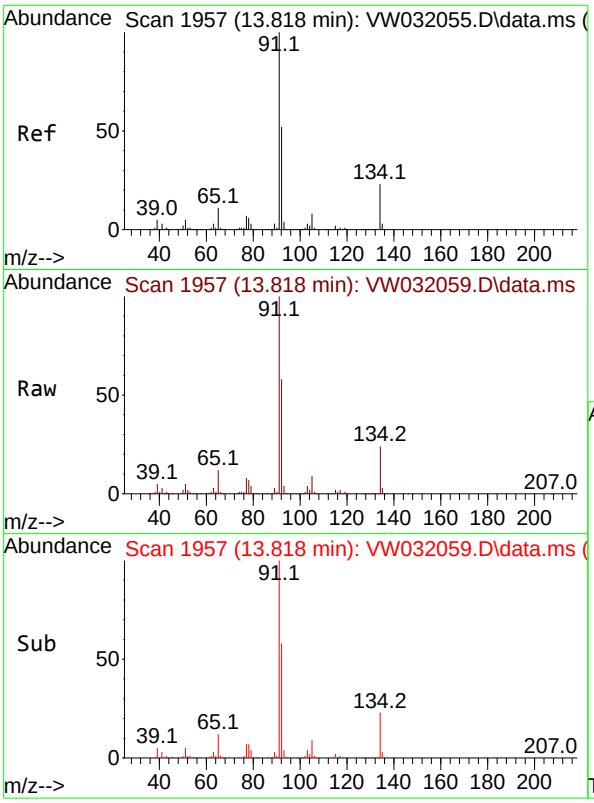


#88
1,4-Dichlorobenzene
Concen: 49.942 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

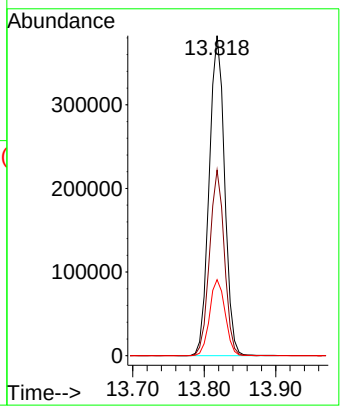




#89
n-Butylbenzene
Concen: 51.958 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



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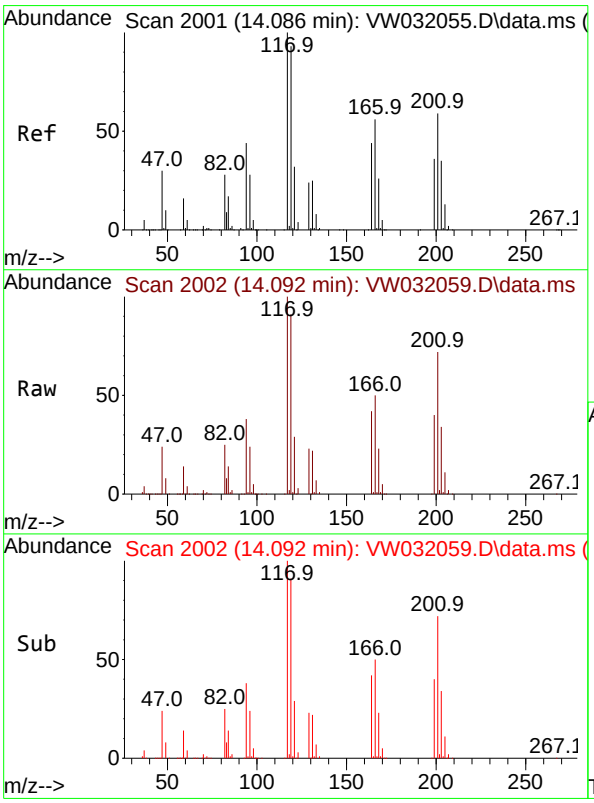
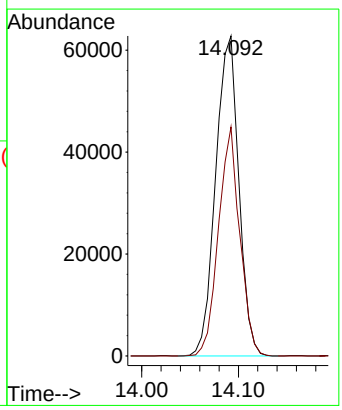
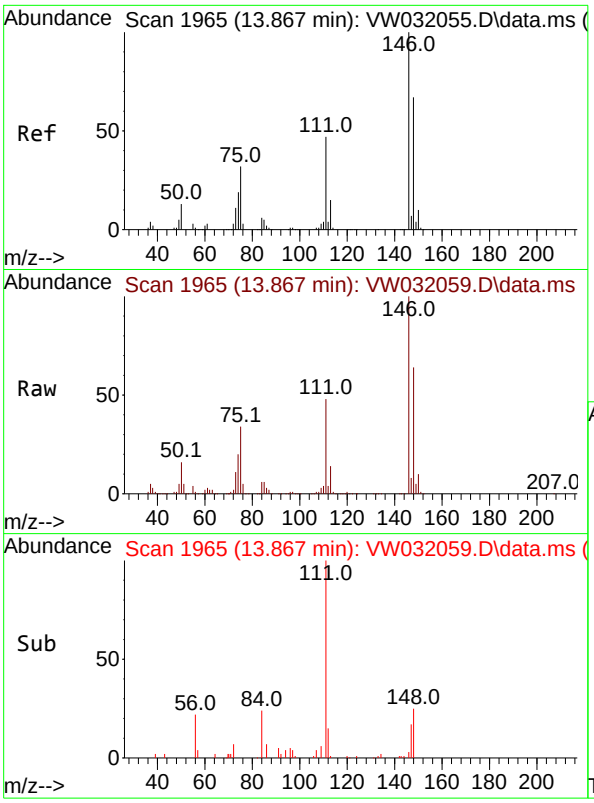


#90
Hexachloroethane
Concen: 50.329 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 104295

Ion	Ratio	Lower	Upper
117	100		
201	65.9	30.9	92.5

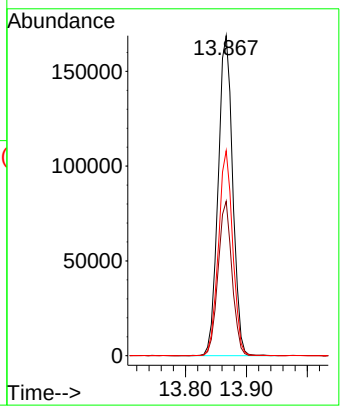




#91
1,2-Dichlorobenzene
Concen: 50.926 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



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ClientSampleId :
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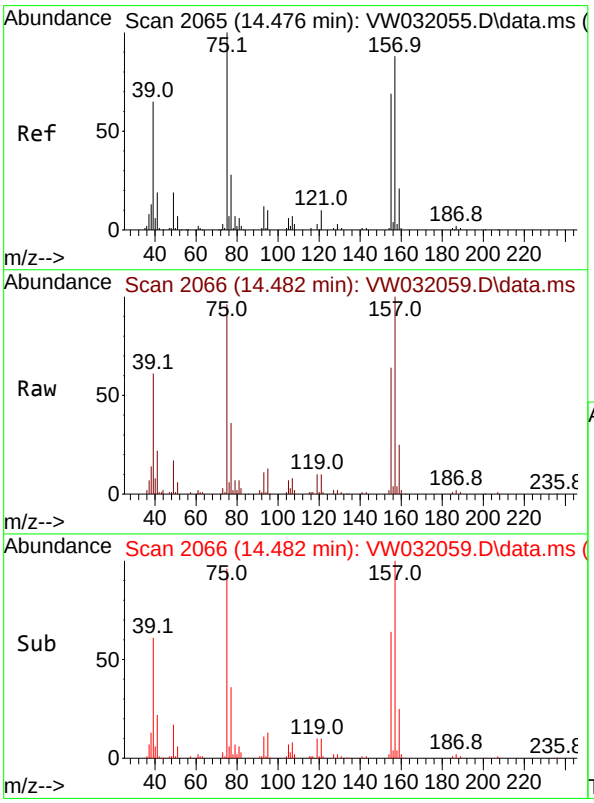
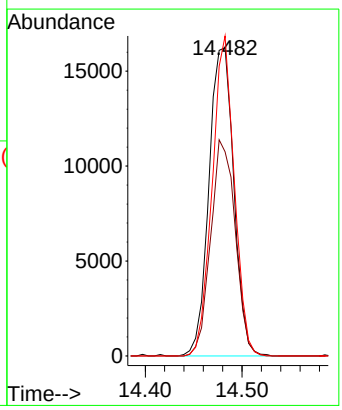
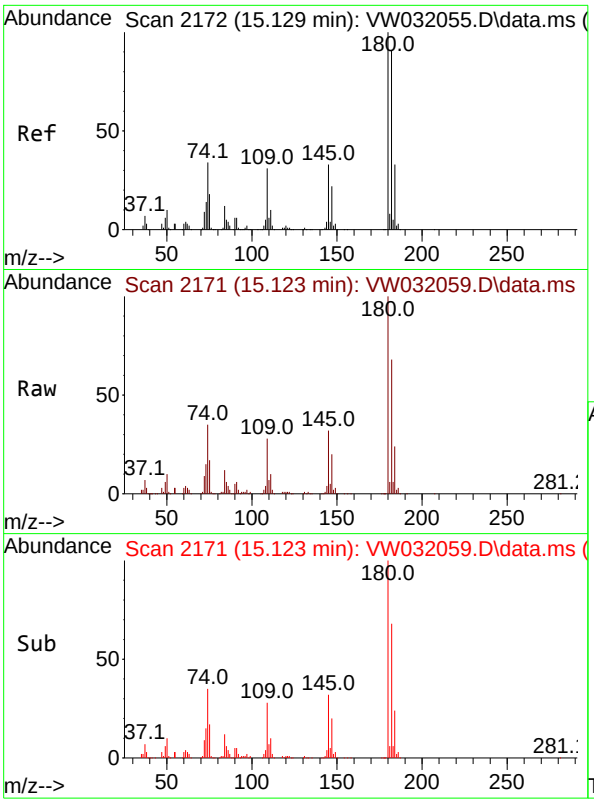


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.872 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

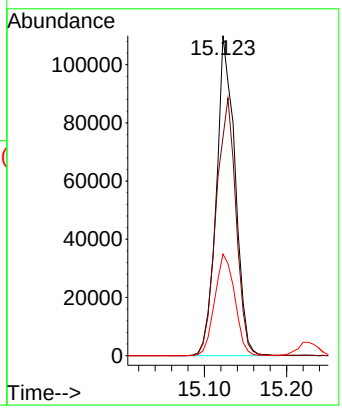




#93
1,2,4-Trichlorobenzene
Concen: 52.764 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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
ClientSampleId :
ICVVW081125

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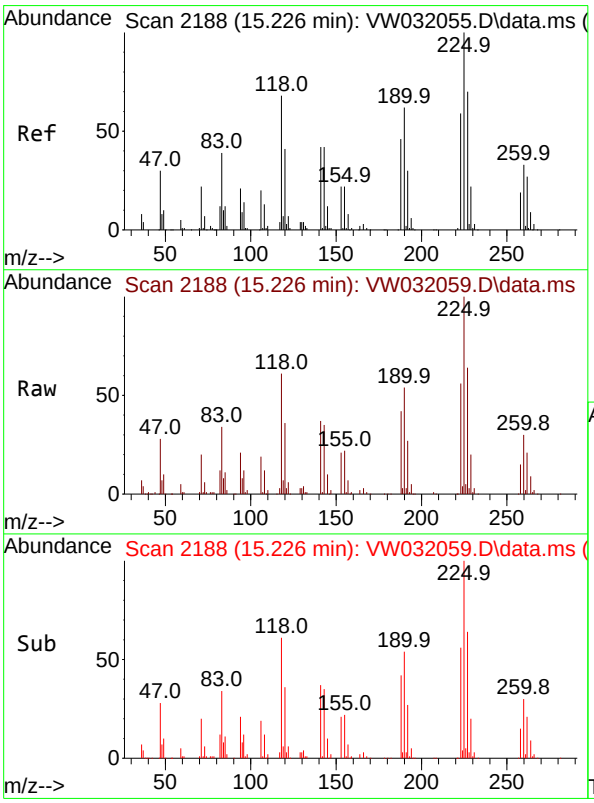
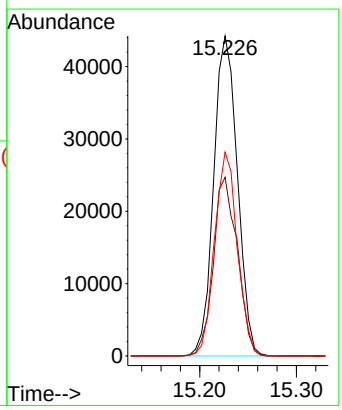
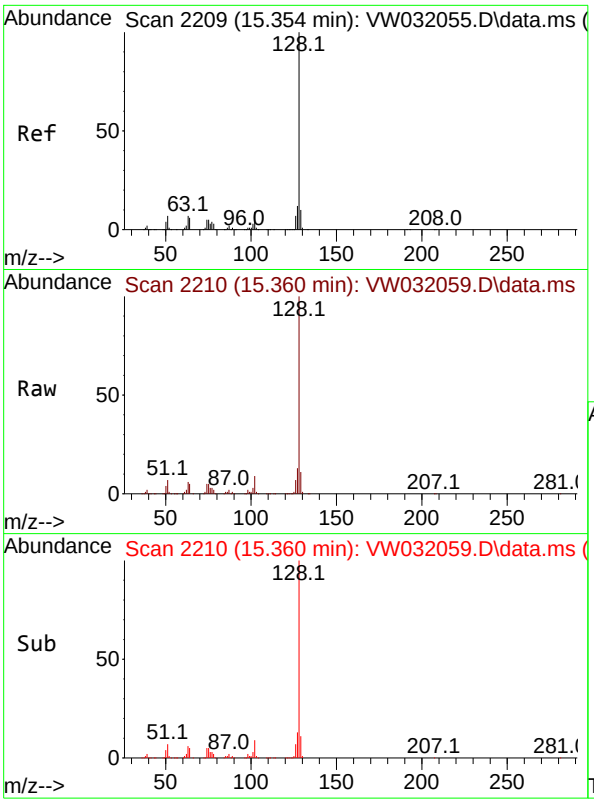


#94
Hexachlorobutadiene
Concen: 51.262 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

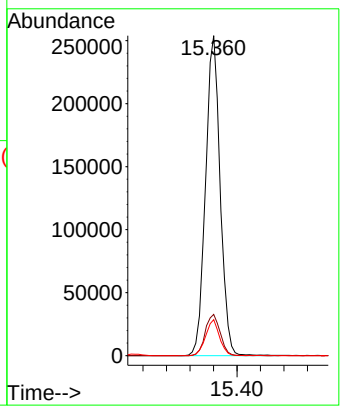




#95
Naphthalene
Concen: 54.415 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:128 Resp: 43813

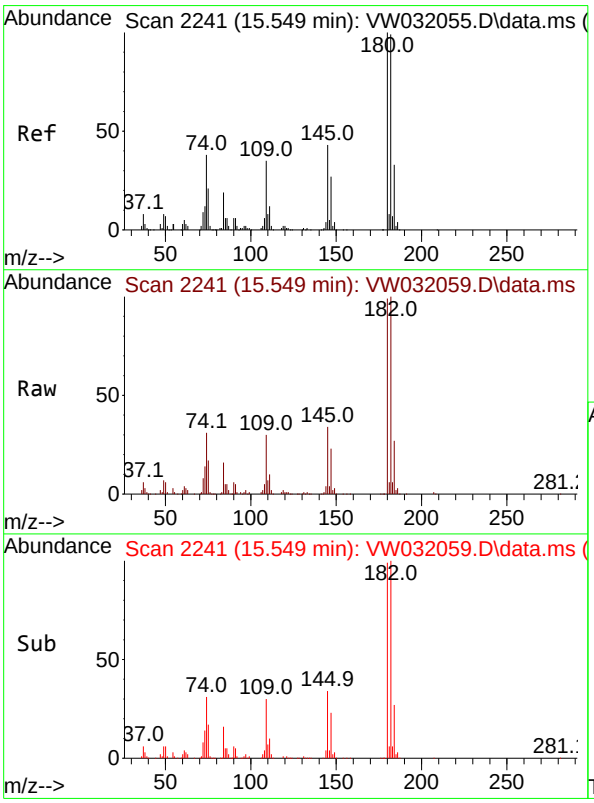
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.7	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Manual Integrations
APPROVED

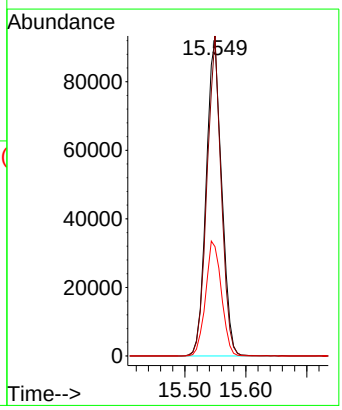
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#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



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

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)
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

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)
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

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	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

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	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

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	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

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.: Q2819

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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

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

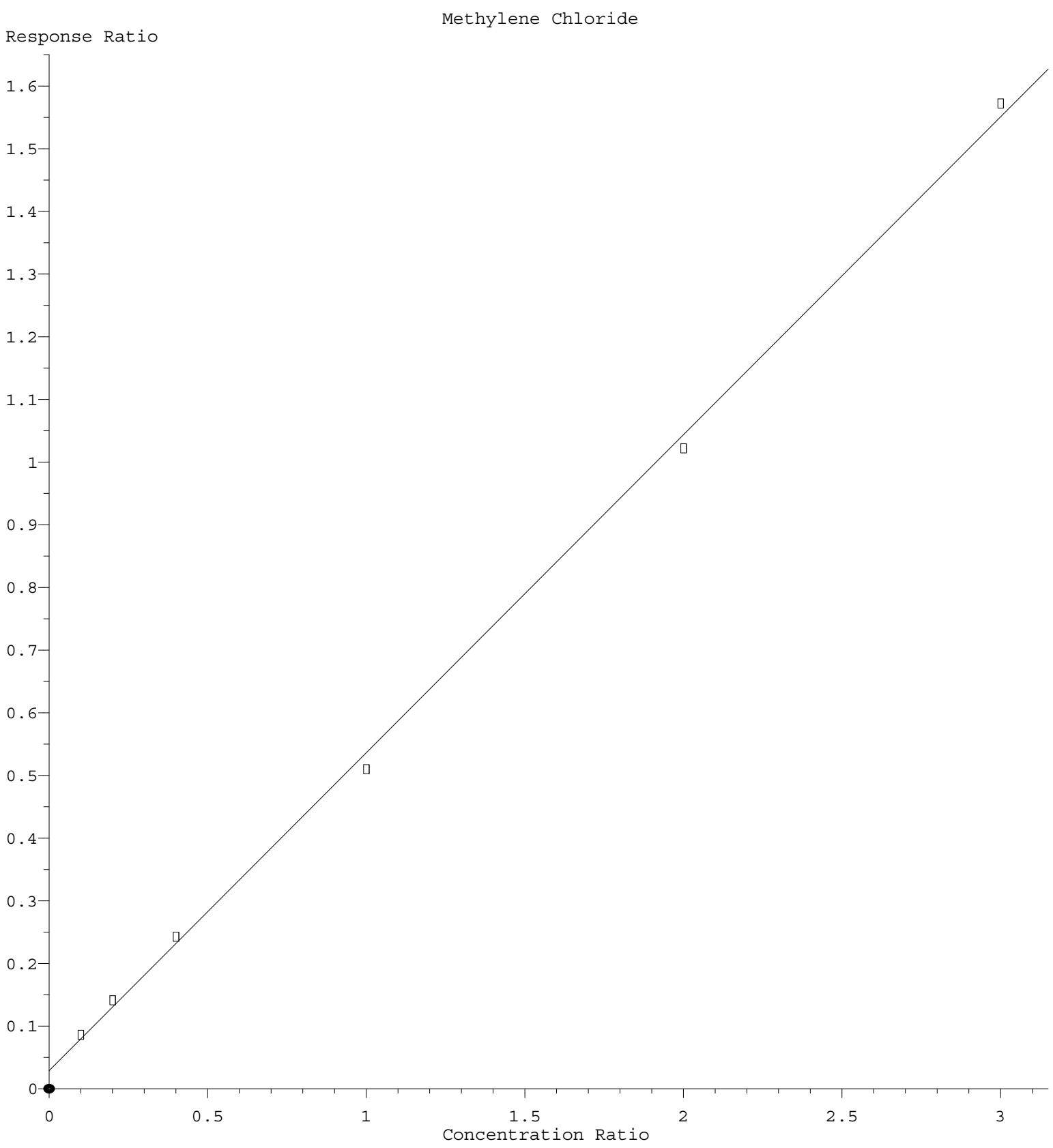
Calibration Files
5 =VY023050.D 10 =VY023051.D 20 =VY023052.D 50 =VY023053.D 100 =VY023054.D 150 =VY023055.D

		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: C:\Chemstation\MSDCHEM\1\DATA\Archv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Calibration Table Last Updated: Wed Aug 13 02:10:11 2025

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

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

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

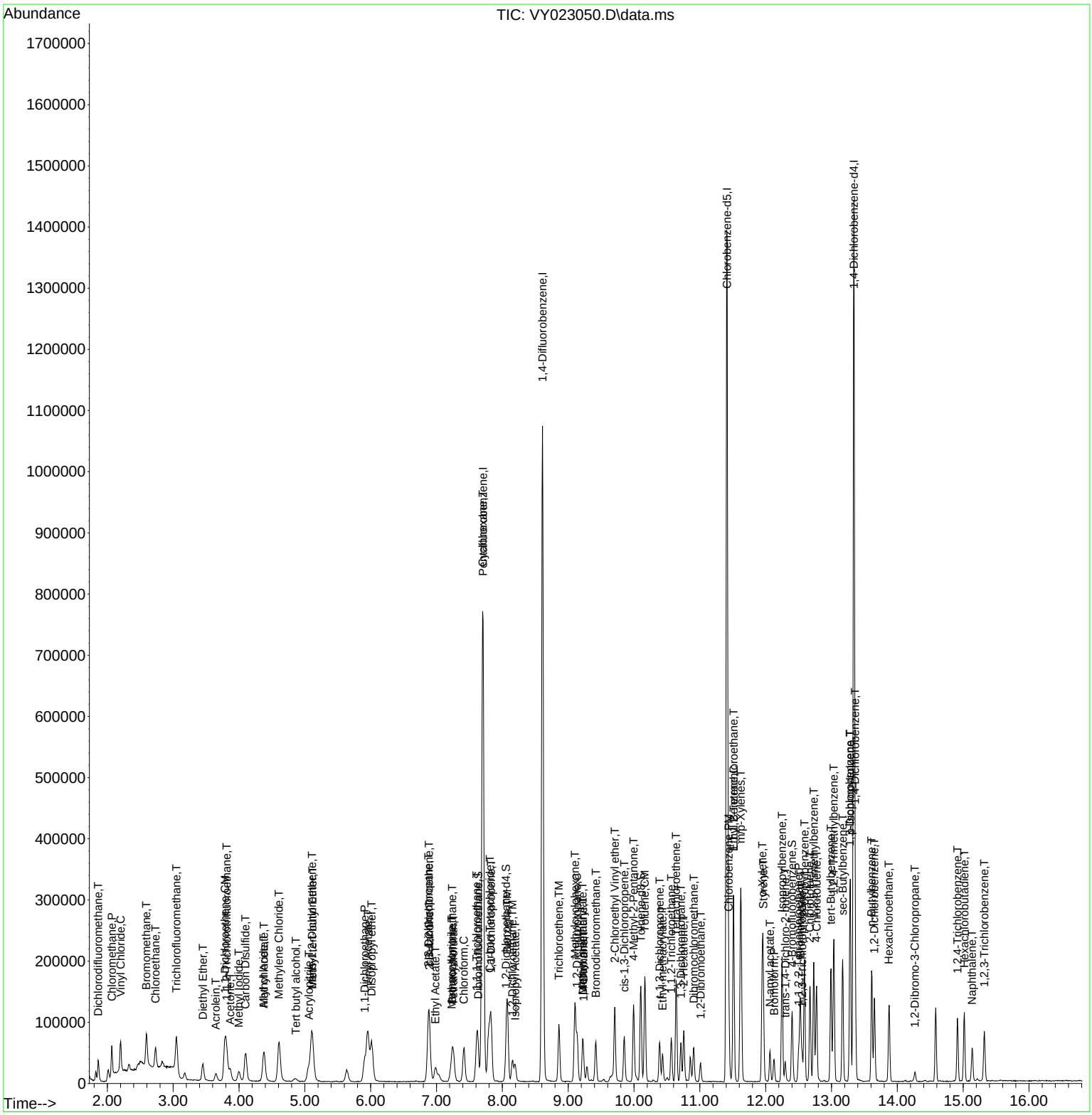
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

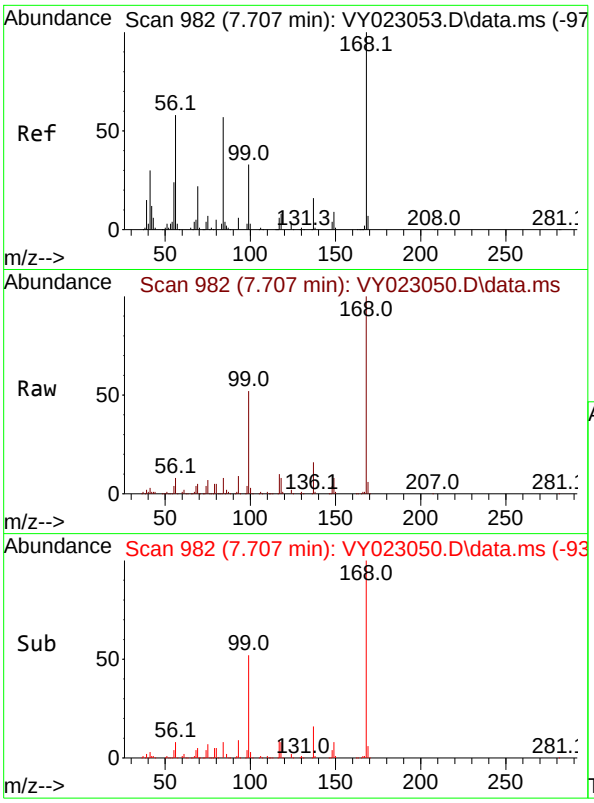
Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

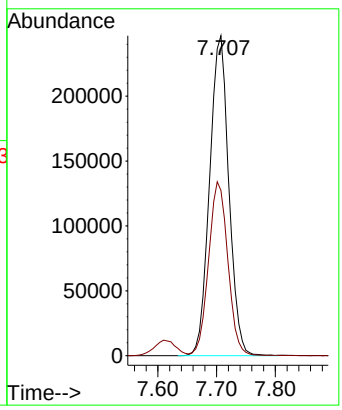




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:168 Resp: 56139

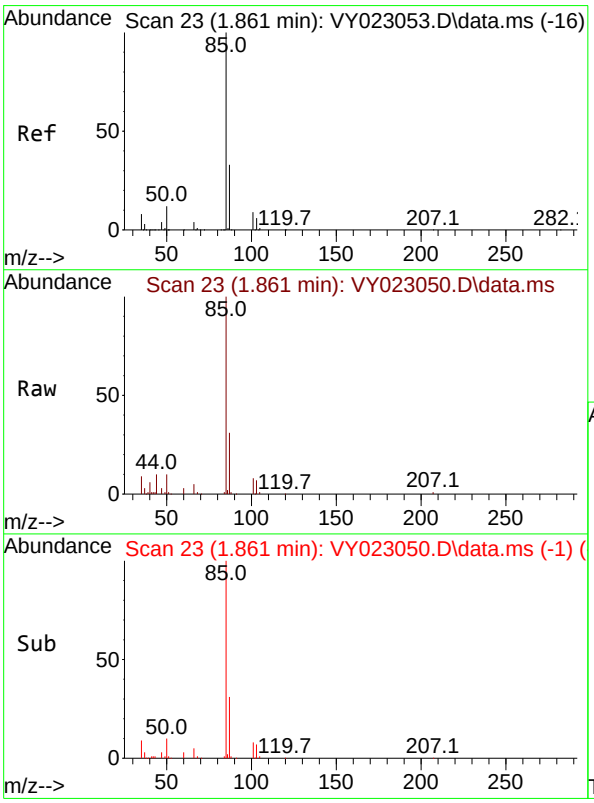
Ion	Ratio	Lower	Upper
168	100		
99	51.5	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

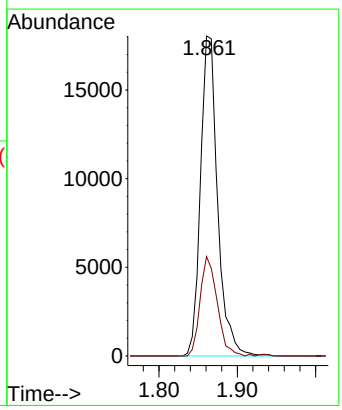
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

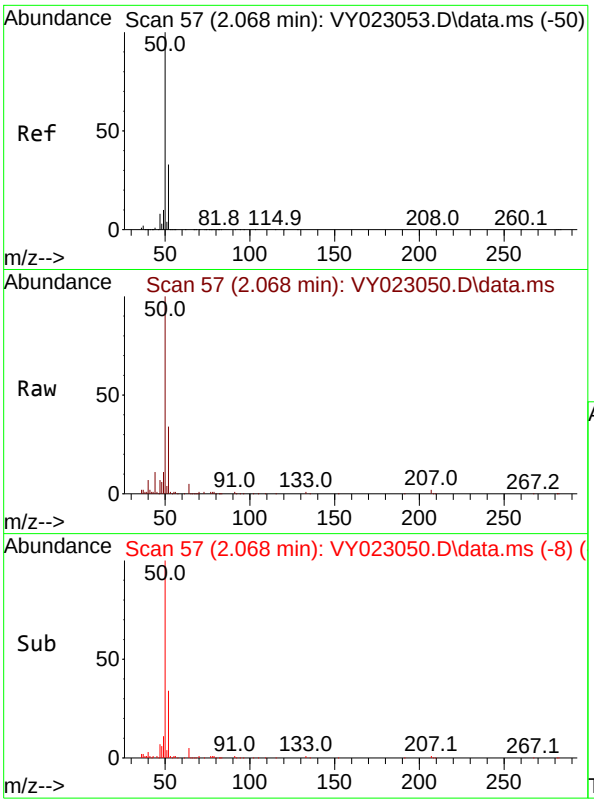


#2
Dichlorodifluoromethane
Concen: 5.969 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 85 Resp: 27351

Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.6	49.8

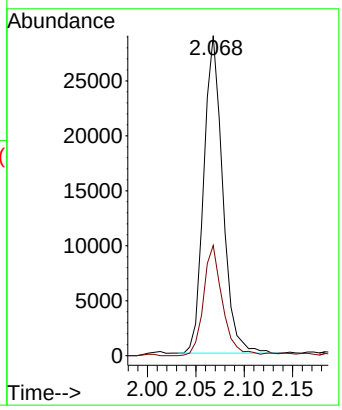




#3
Chloromethane
Concen: 5.291 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 50 Resp: 3926

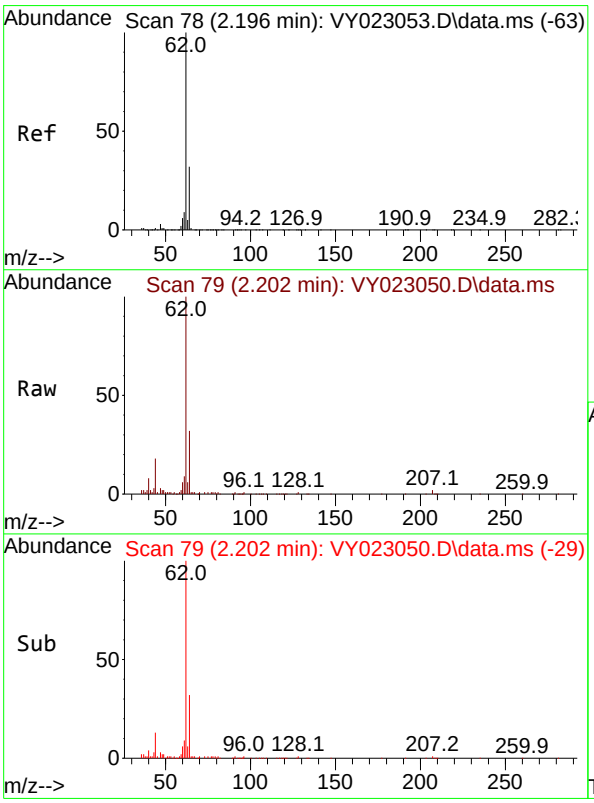
Ion	Ratio	Lower	Upper
50	100		
52	34.7	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

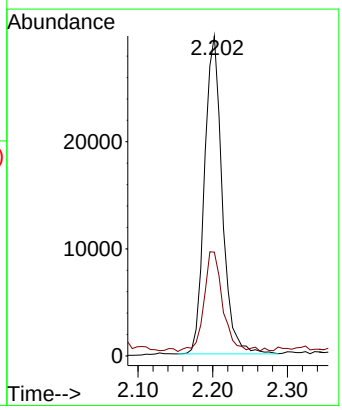
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

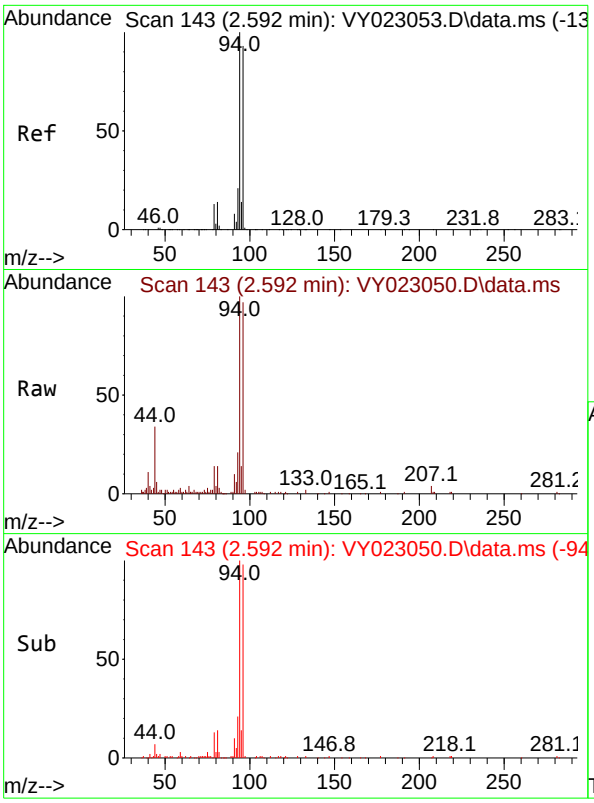


#4
Vinyl Chloride
Concen: 5.312 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 48736

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.4	38.0

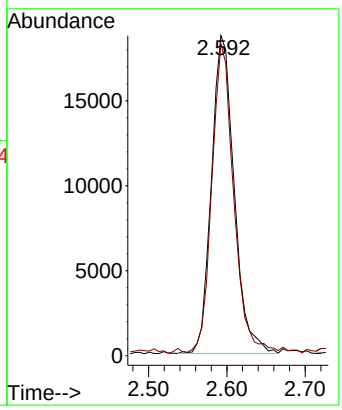




#5
Bromomethane
Concen: 5.513 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 94 Resp: 3777

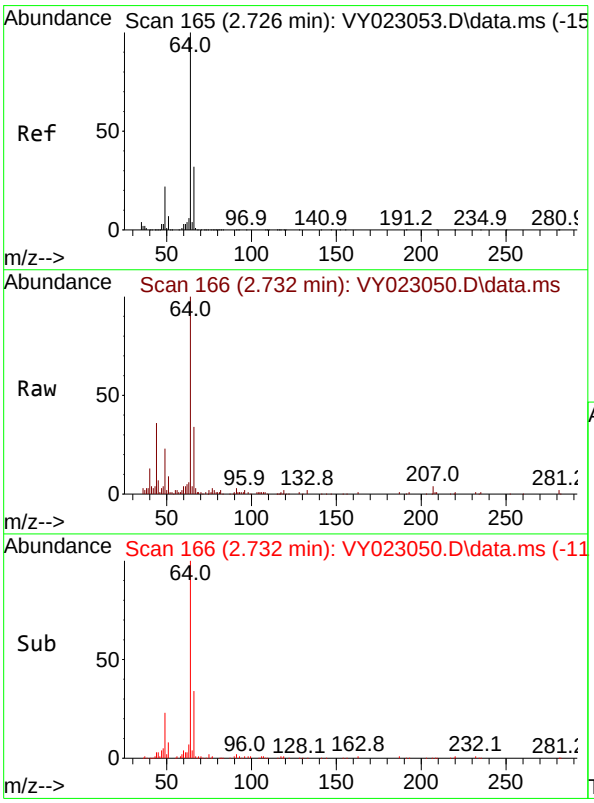
Ion	Ratio	Lower	Upper
94	100		
96	96.5	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

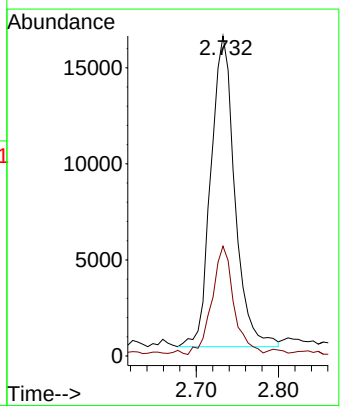
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

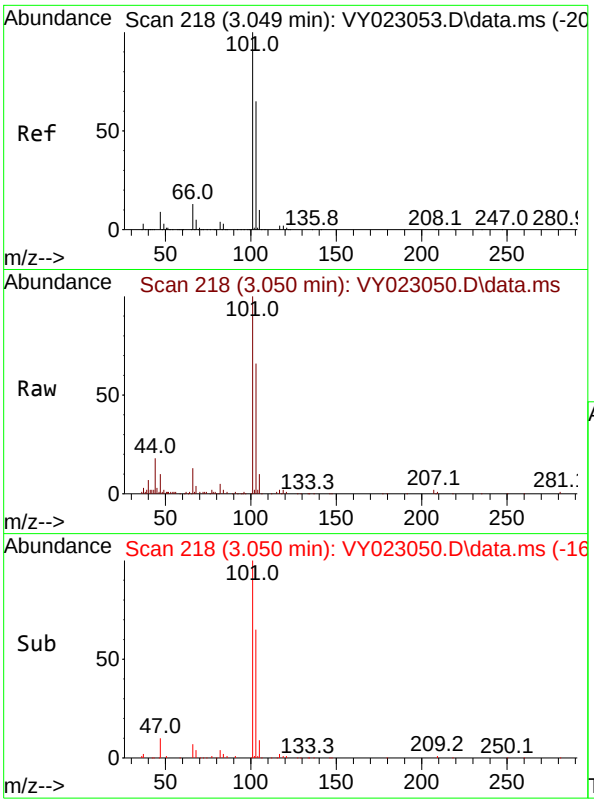


#6
Chloroethane
Concen: 5.380 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 64 Resp: 32816

Ion	Ratio	Lower	Upper
64	100		
66	33.5	25.8	38.6

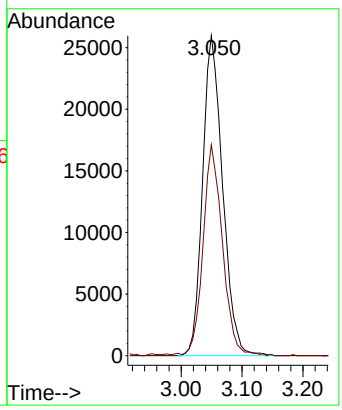




#7
Trichlorofluoromethane
Concen: 5.328 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:101 Resp: 5943

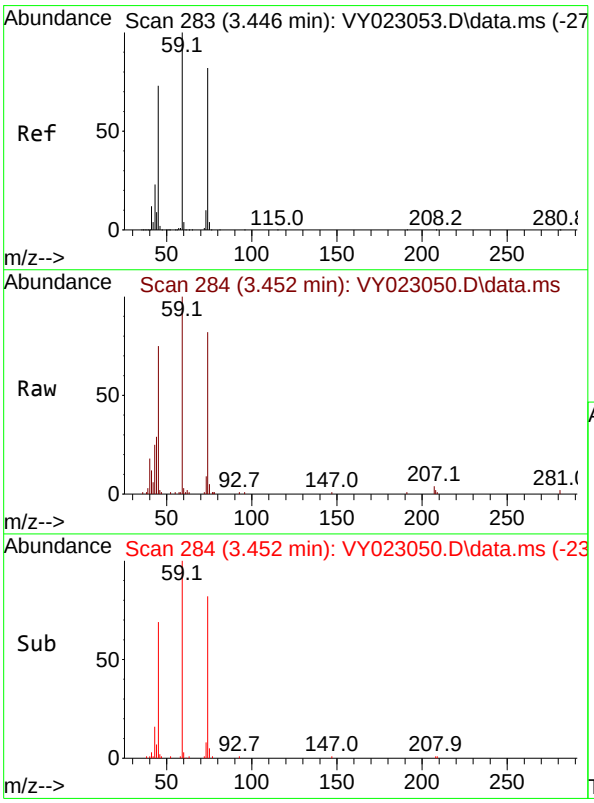
Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

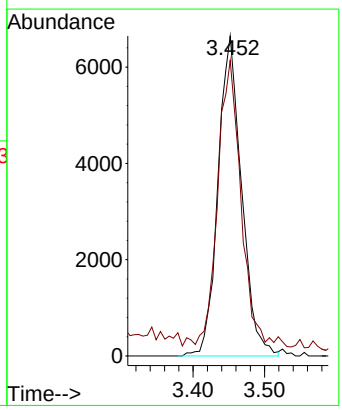
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

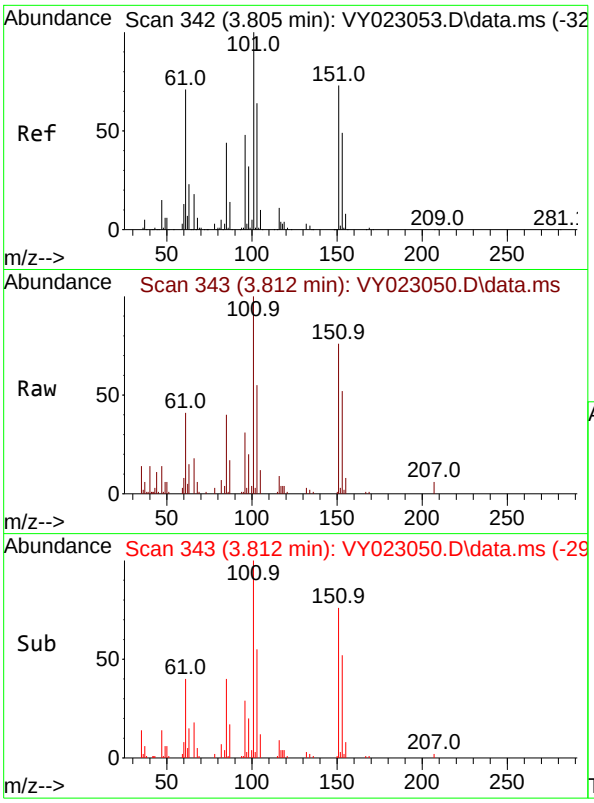


#8
Diethyl Ether
Concen: 5.160 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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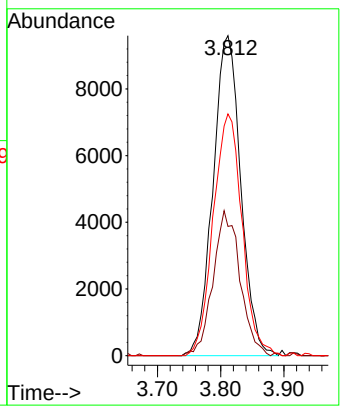
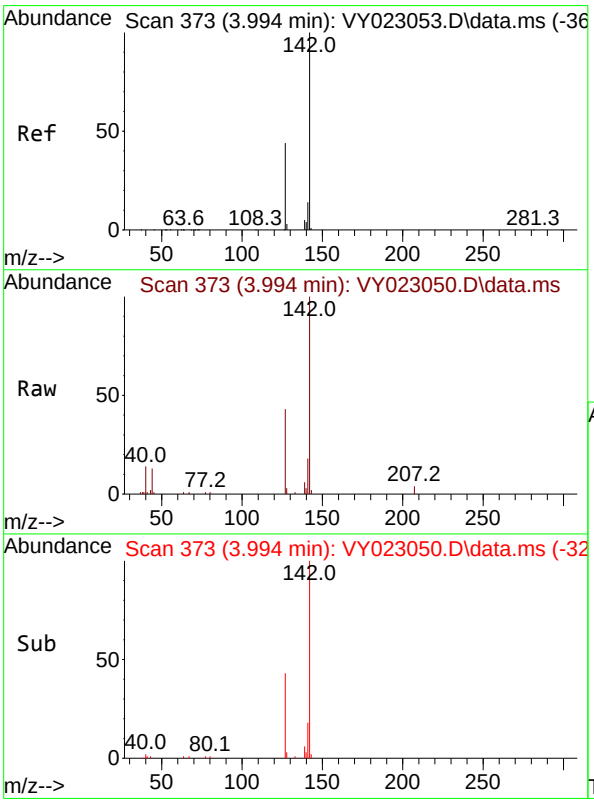
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

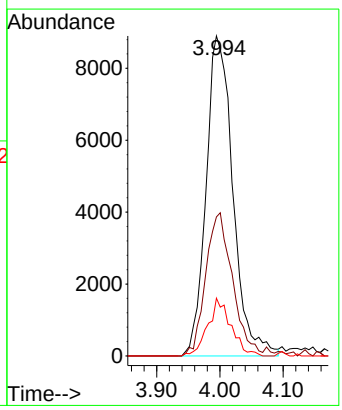


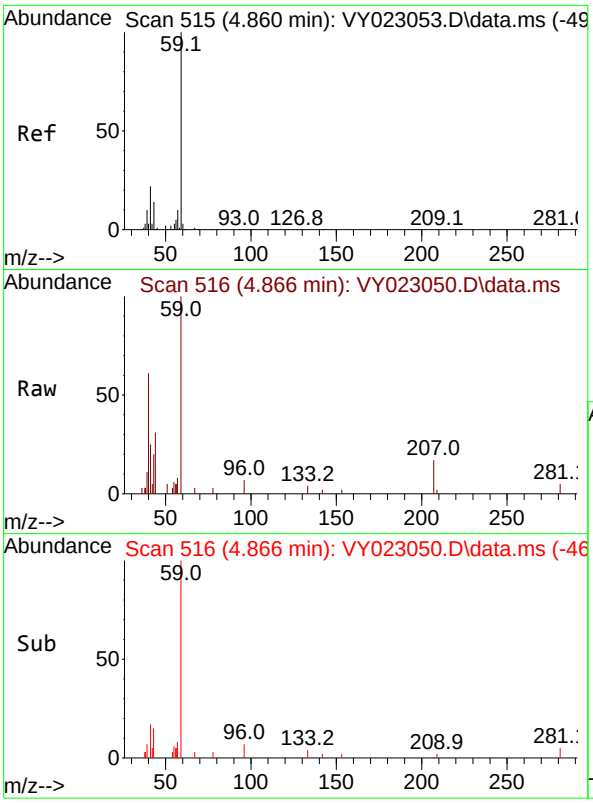


#10
Methyl Iodide
Concen: 4.424 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

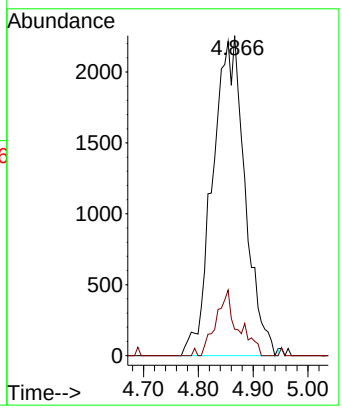




#11
Tert butyl alcohol
Concen: 25.147 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 59 Resp: 921

Ion	Ratio	Lower	Upper
59	100		
57	13.9	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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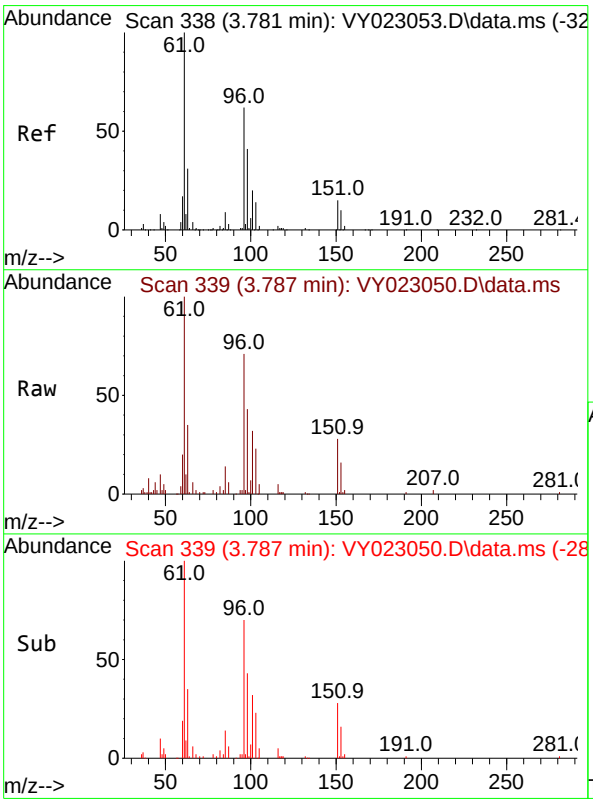
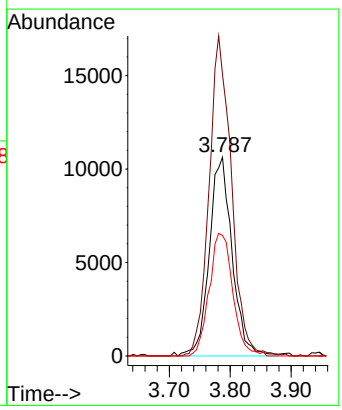
Supervised By :Semsettin Yesilyurt 08/14/2025

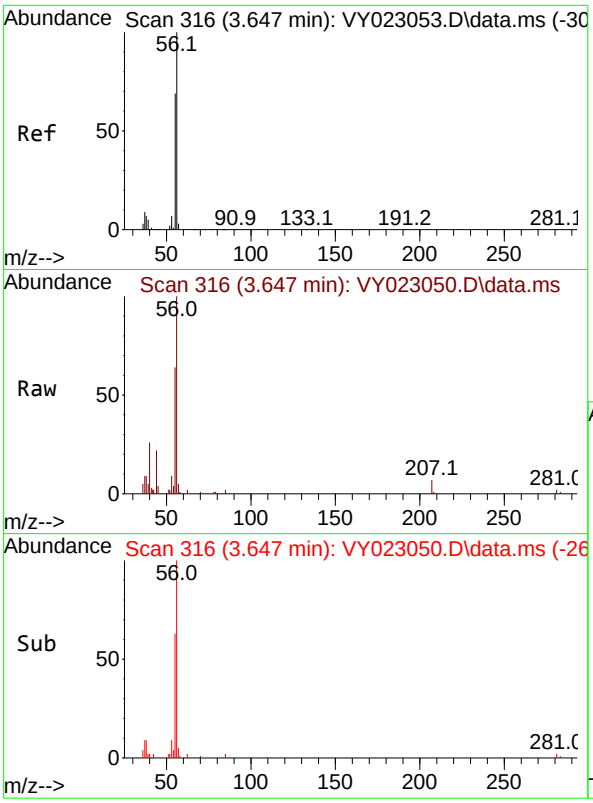


#12
1,1-Dichloroethene
Concen: 5.108 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

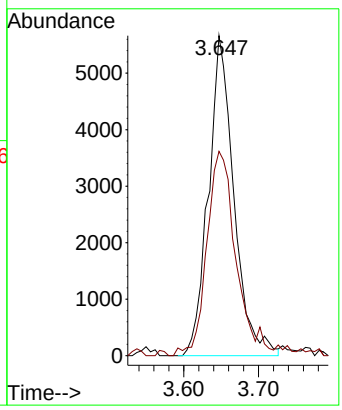




#13
Acrolein
Concen: 24.941 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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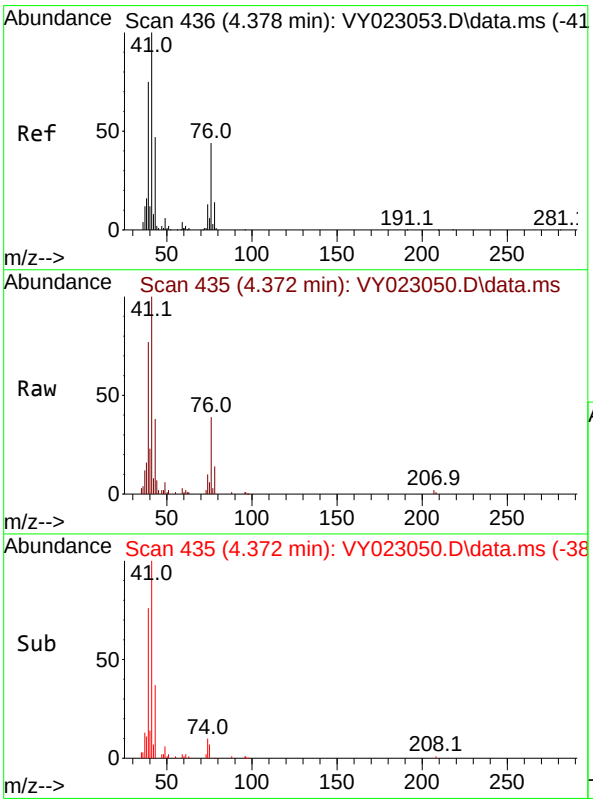
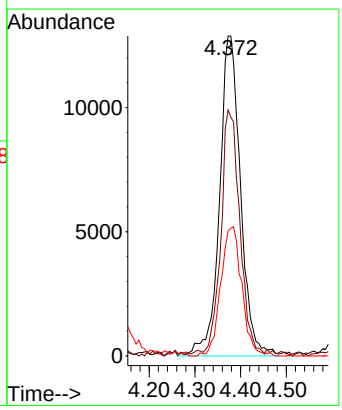
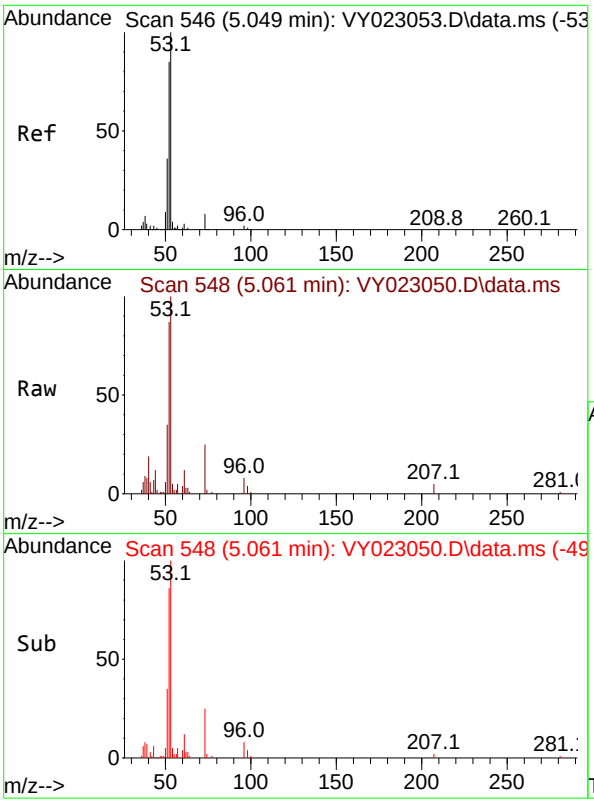


#14
Allyl chloride
Concen: 5.176 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

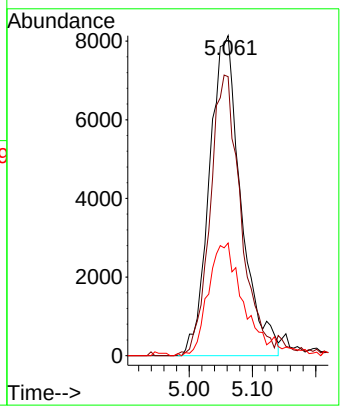




#15
Acrylonitrile
Concen: 23.547 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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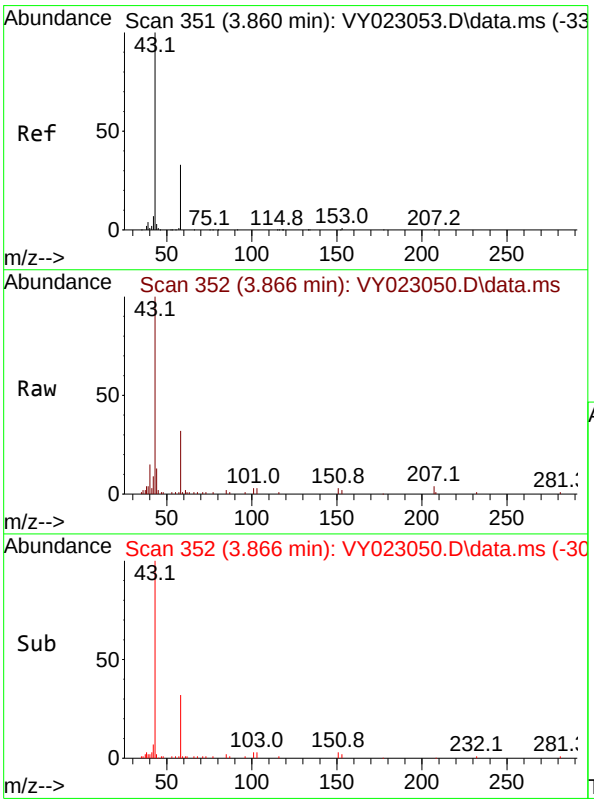
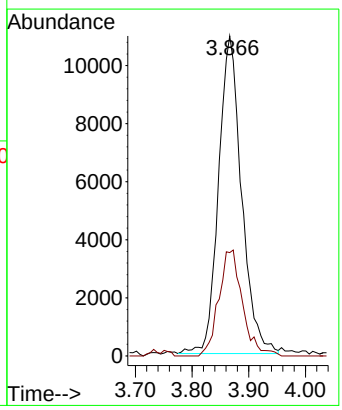
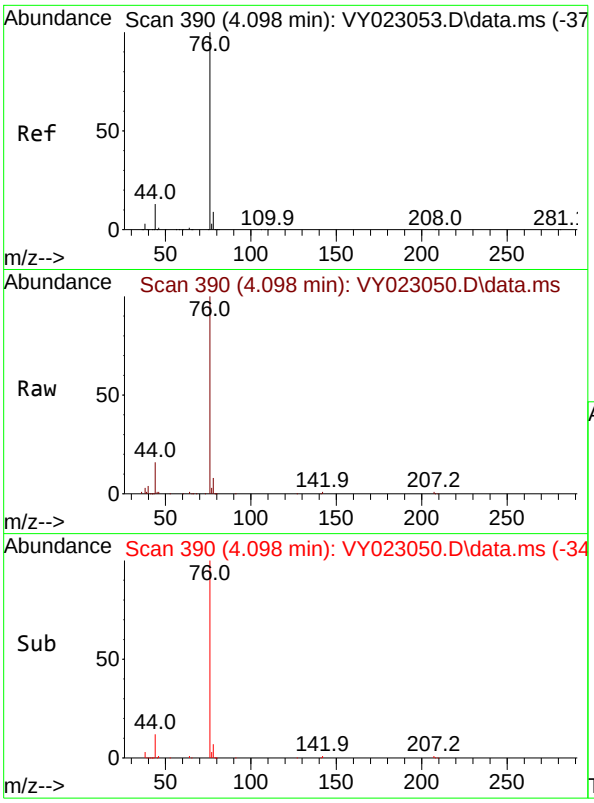


#16
Acetone
Concen: 26.574 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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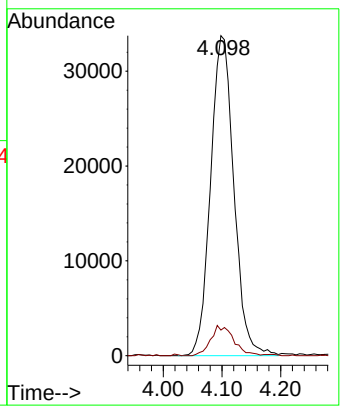
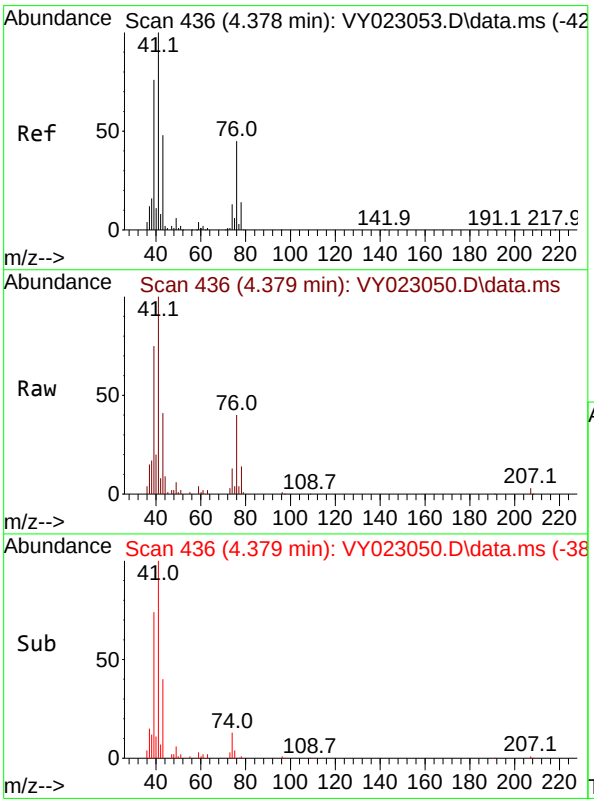
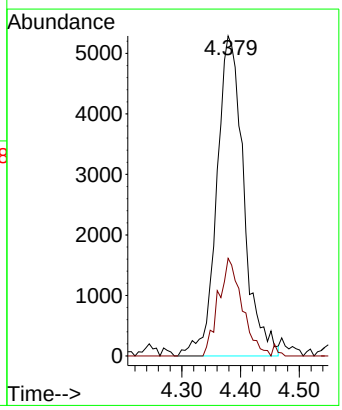


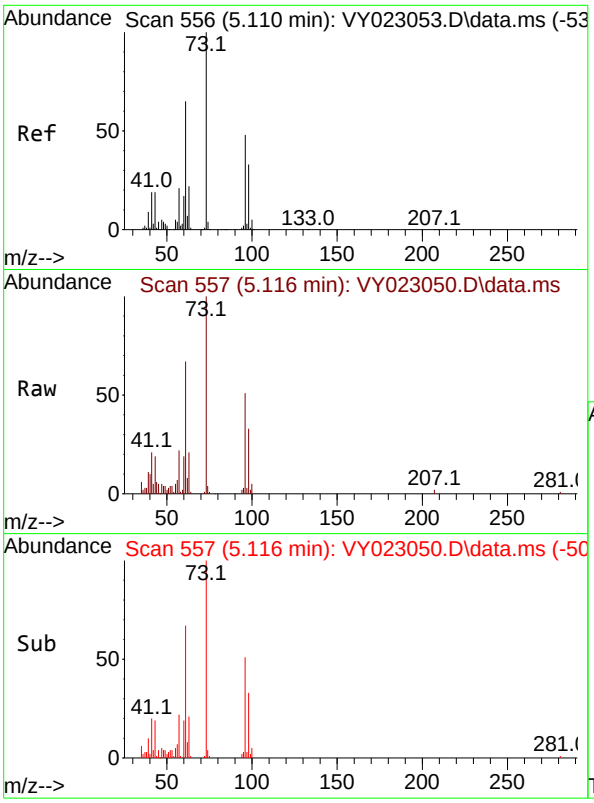


#18
Methyl Acetate
Concen: 4.872 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 16806

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8

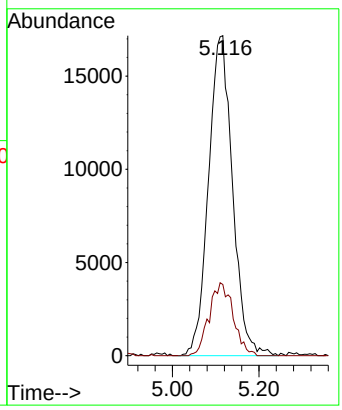




#19
Methyl tert-butyl Ether
Concen: 4.730 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 73 Resp: 6630

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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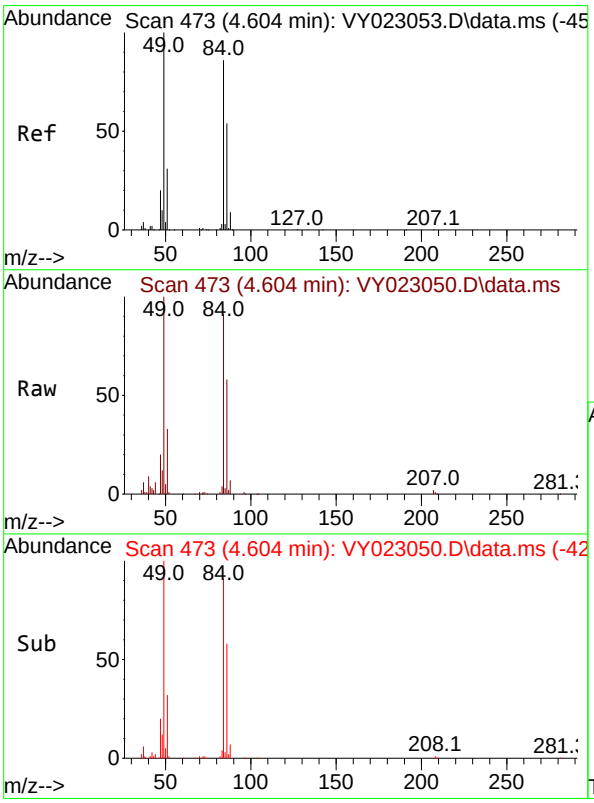
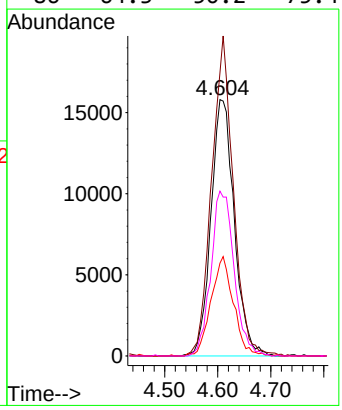
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

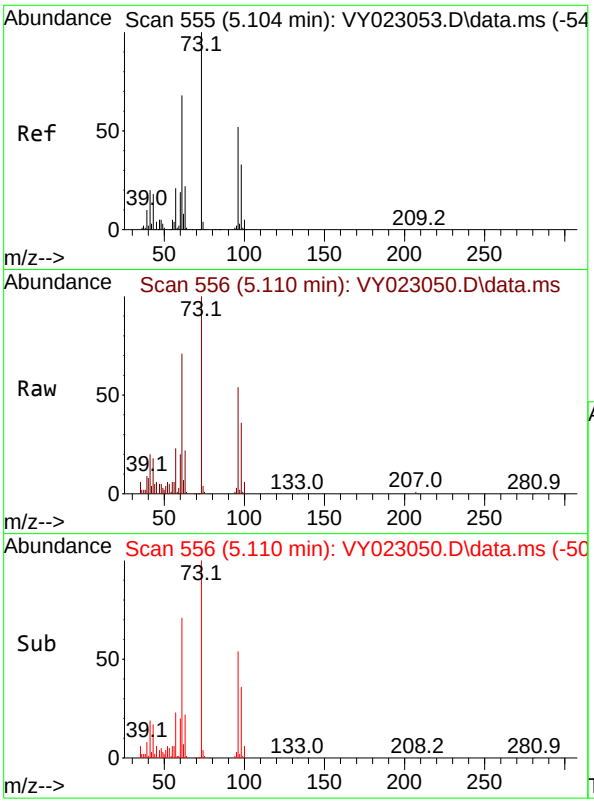


#20
Methylene Chloride
Concen: 5.657 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

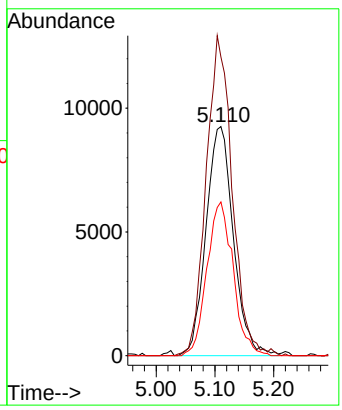




#21
trans-1,2-Dichloroethene
Concen: 4.938 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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 APPROVED

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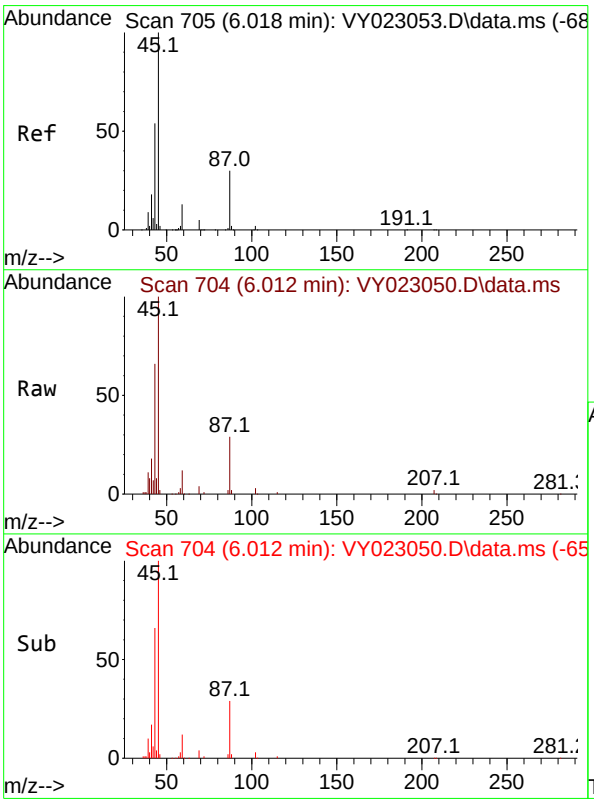
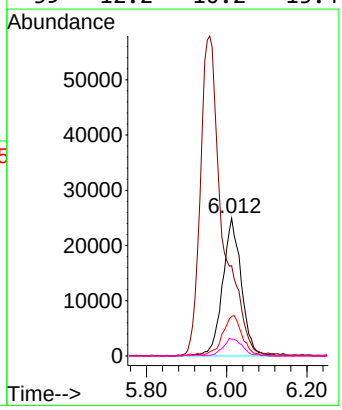
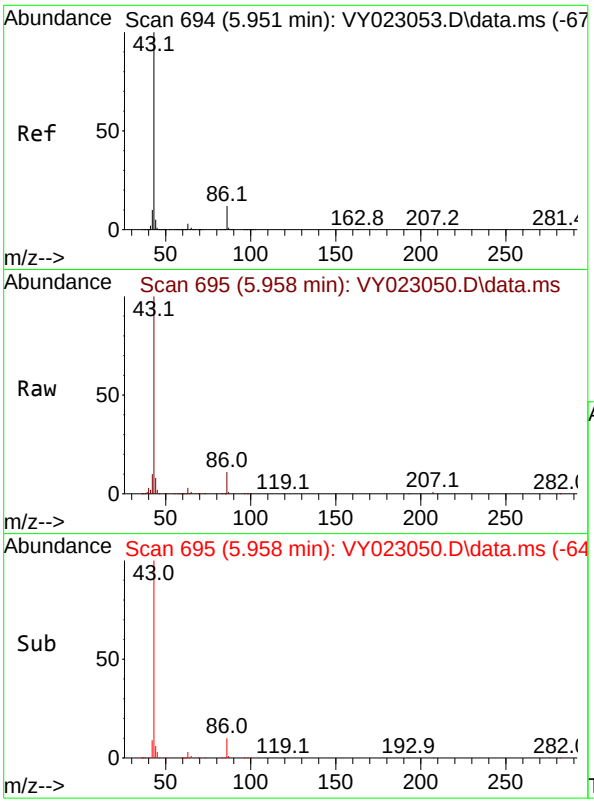


#22
Diisopropyl ether
Concen: 4.679 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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 APPROVED

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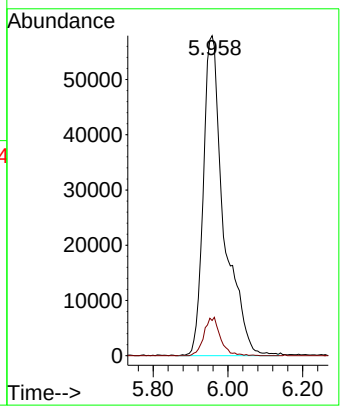
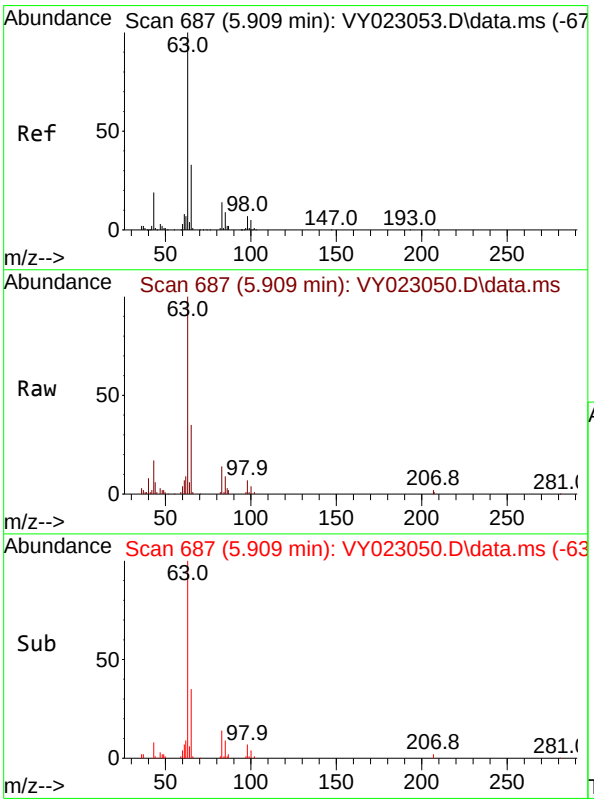
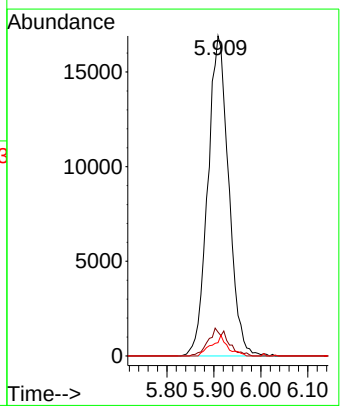


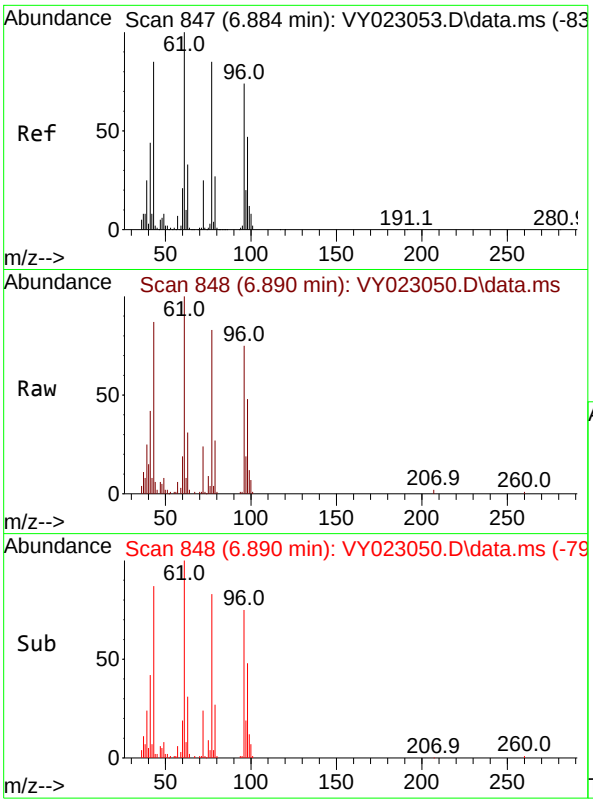


#24
1,1-Dichloroethane
Concen: 4.931 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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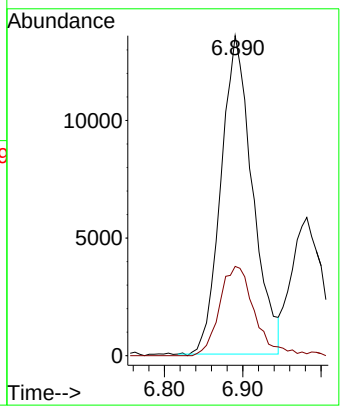
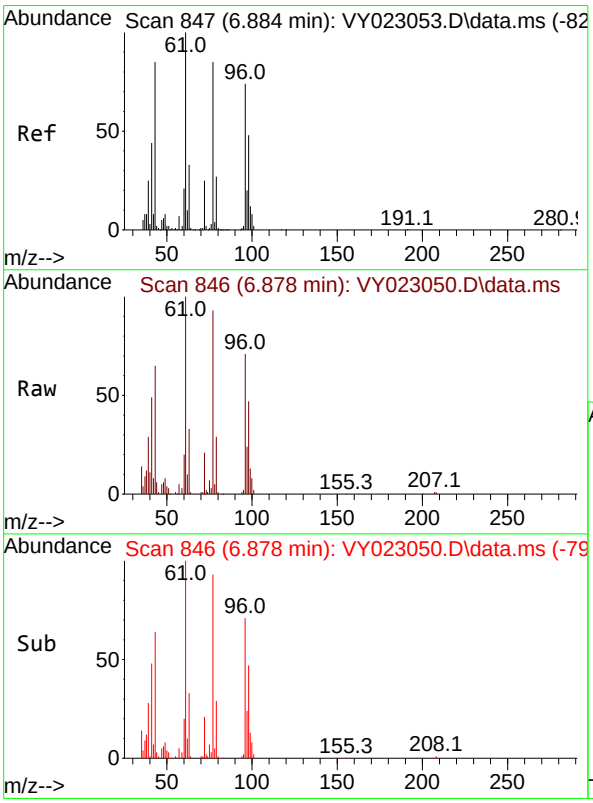
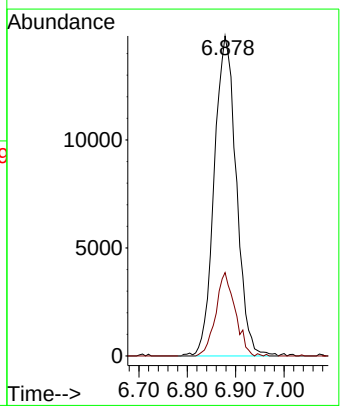


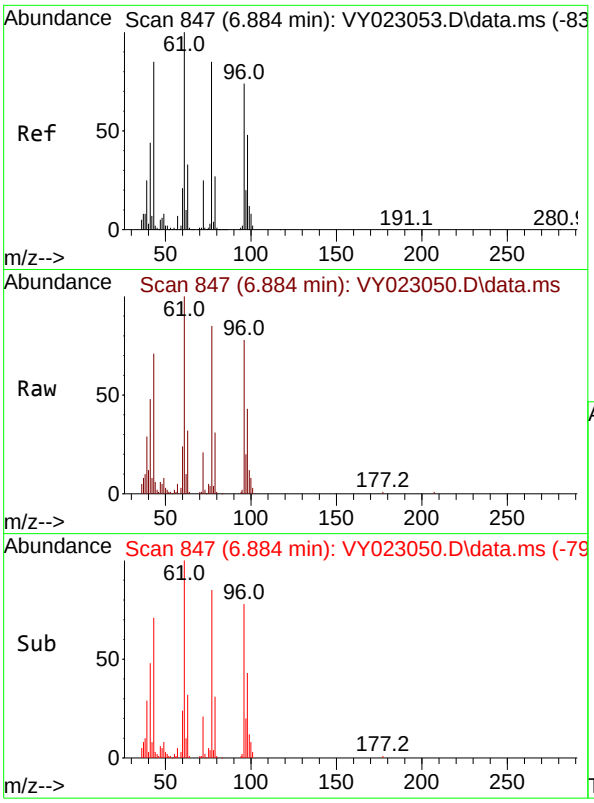


#26
2,2-Dichloropropane
Concen: 5.147 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 77 Resp: 46964

Ion	Ratio	Lower	Upper
77	100		
97	22.8	11.6	34.8

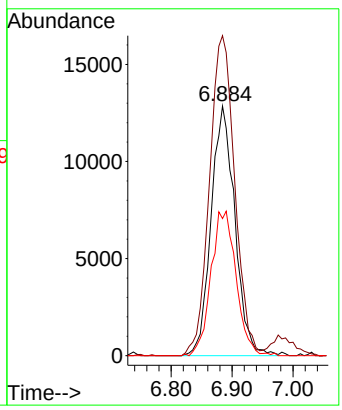




#27
cis-1,2-Dichloroethene
Concen: 4.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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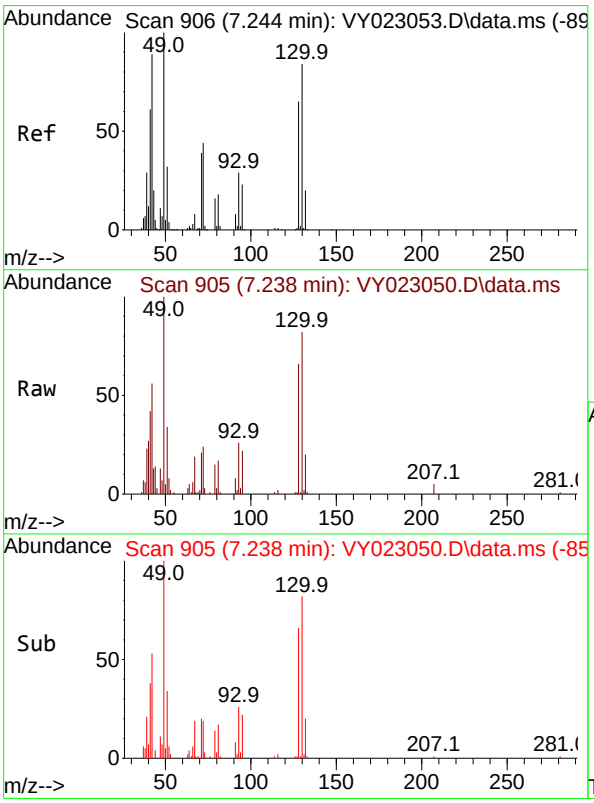
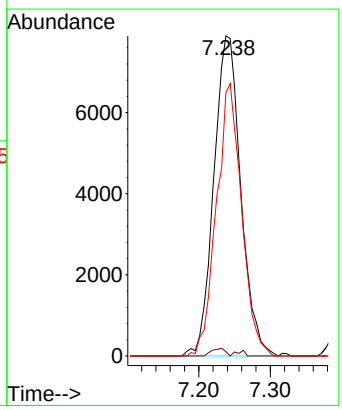
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

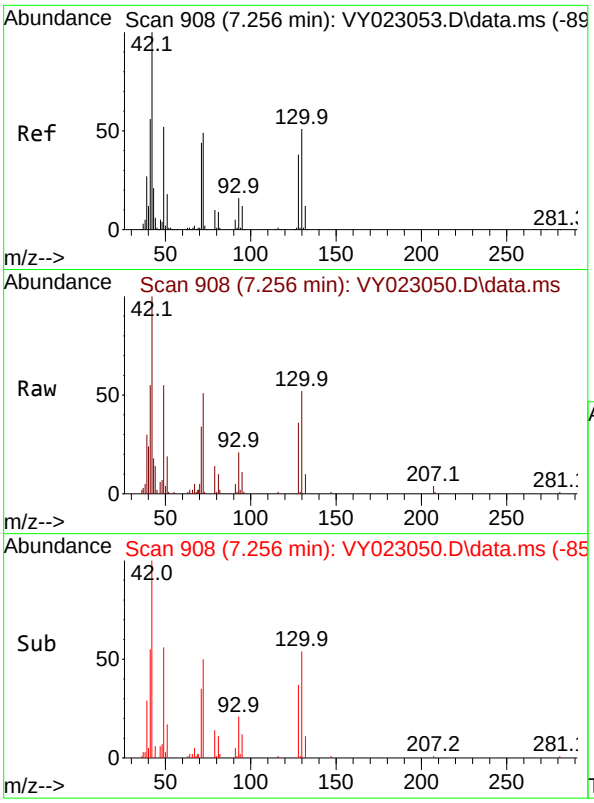


#28
Bromochloromethane
Concen: 4.913 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

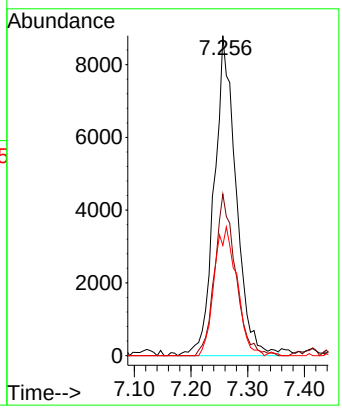




#29
Tetrahydrofuran
Concen: 24.035 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

Manual Integrations
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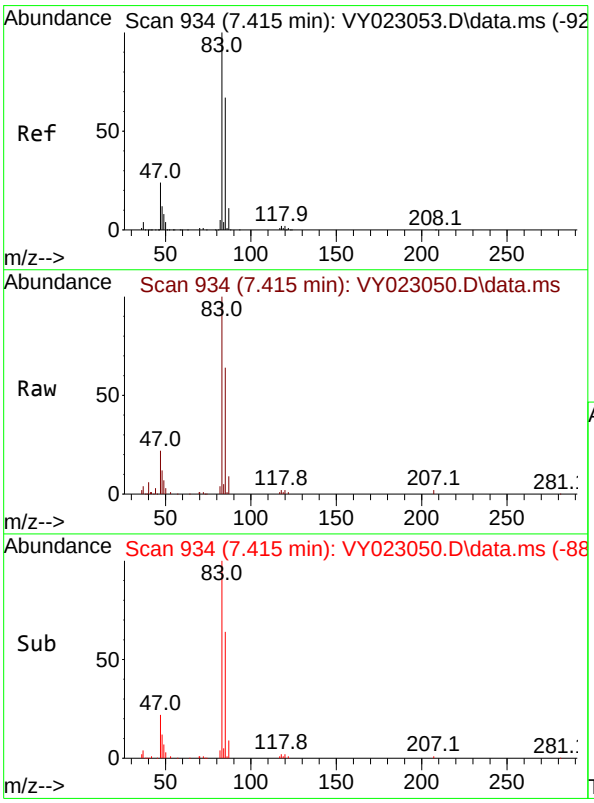
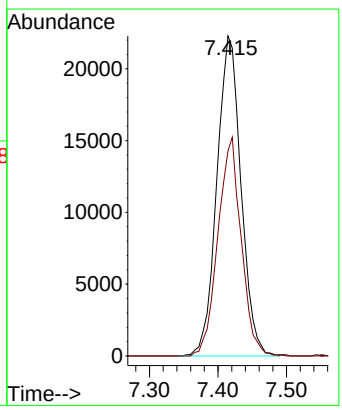
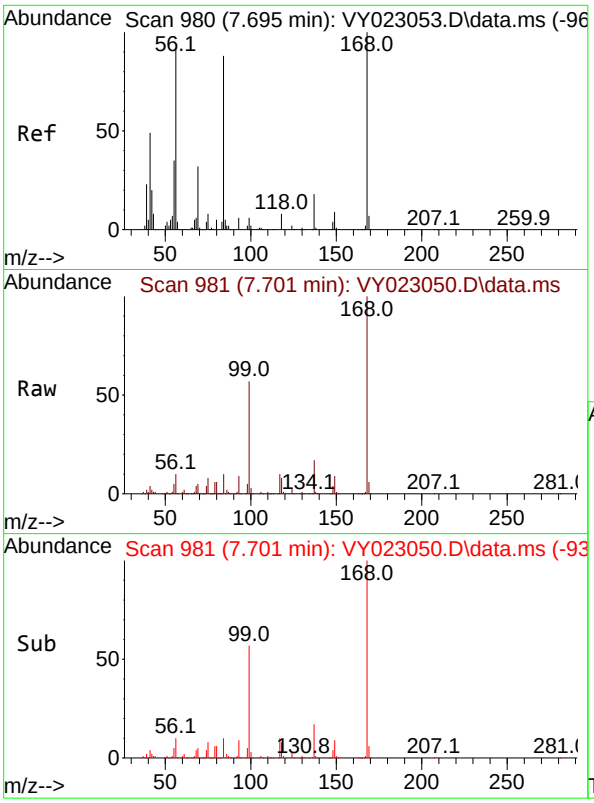


#30
Chloroform
Concen: 4.987 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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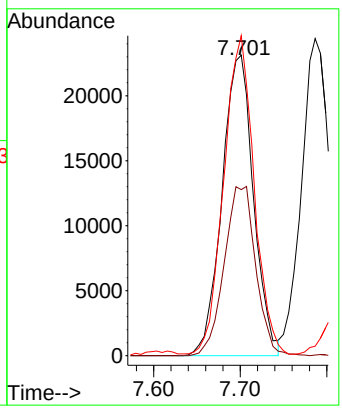
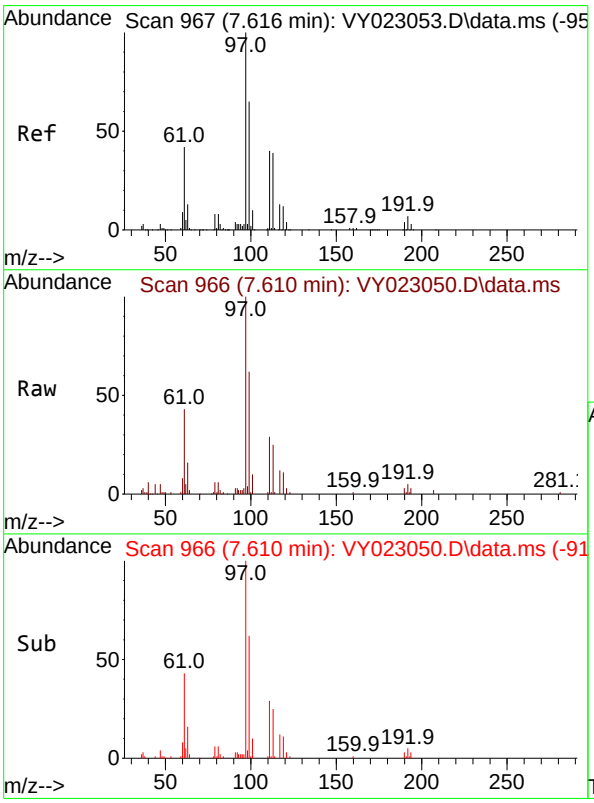
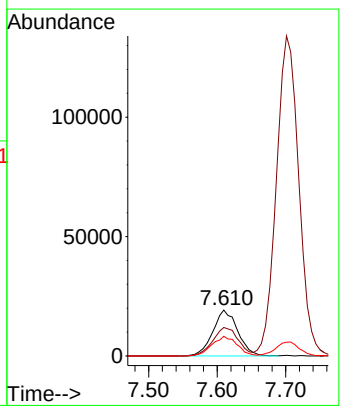


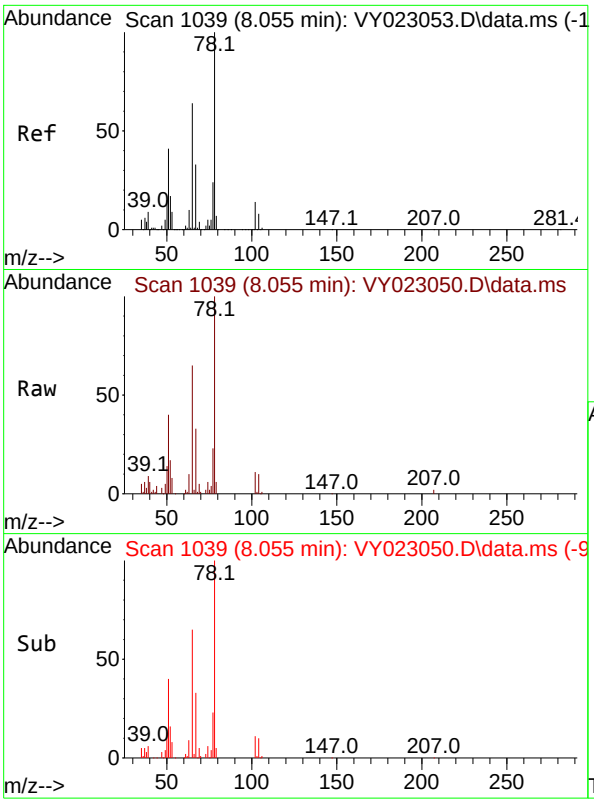


#32
1,1,1-Trichloroethane
Concen: 5.003 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

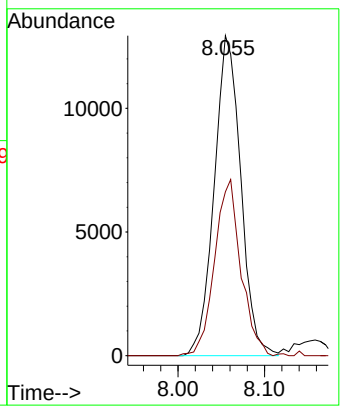




#33
1,2-Dichloroethane-d4
Concen: 5.152 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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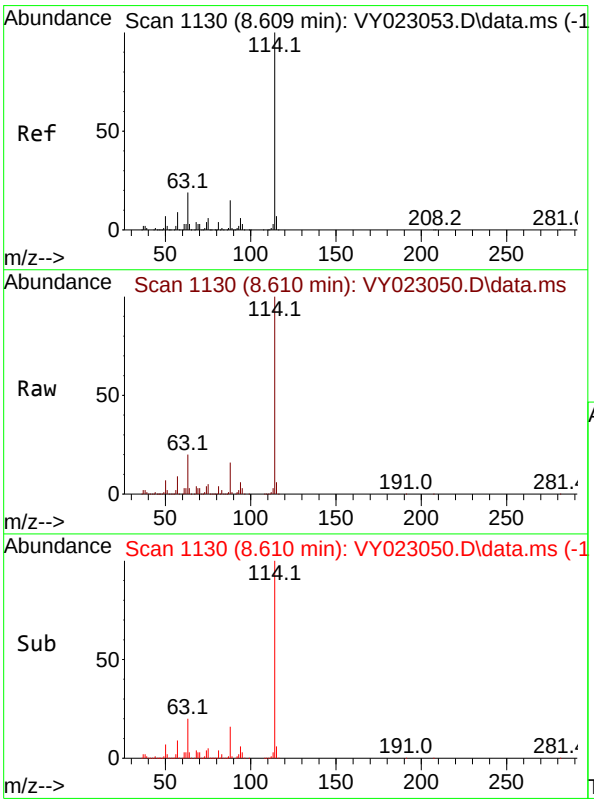
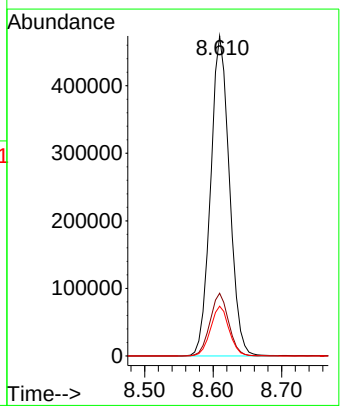
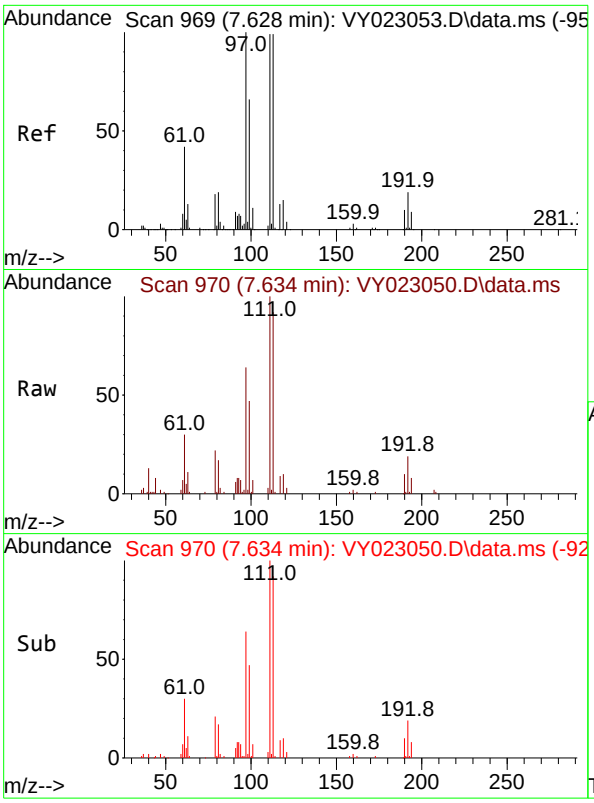


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

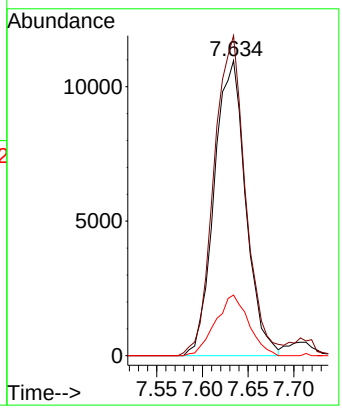




#35
Dibromofluoromethane
Concen: 4.851 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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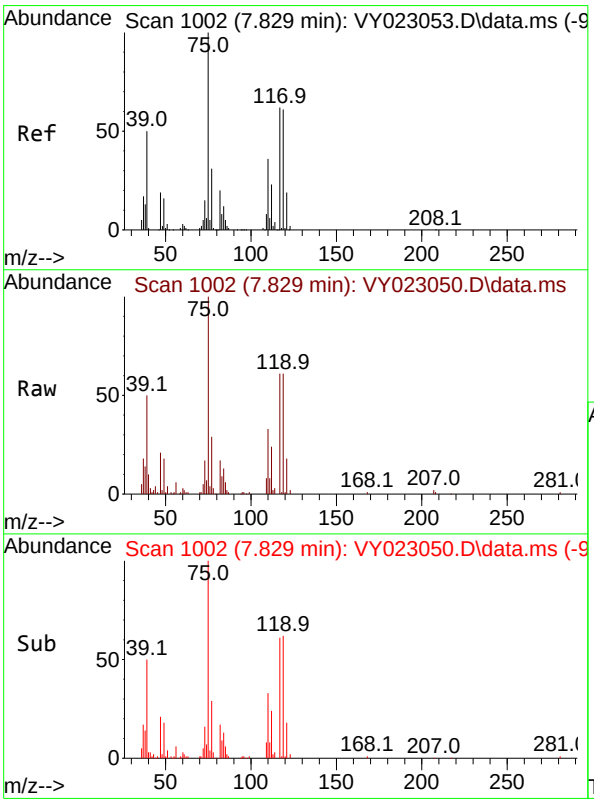
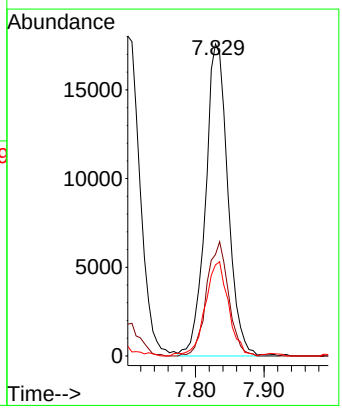
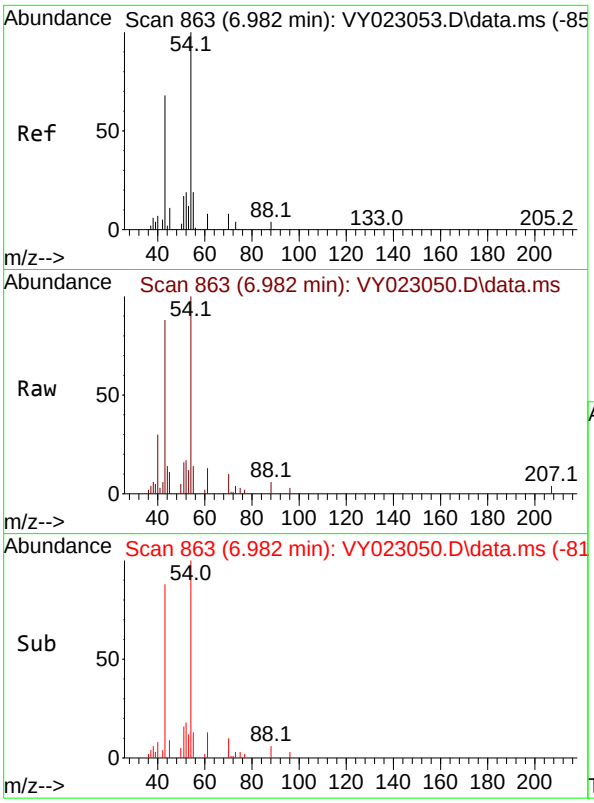


#36
1,1-Dichloropropene
Concen: 4.968 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

Manual Integrations
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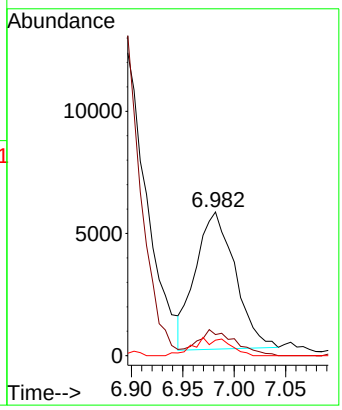
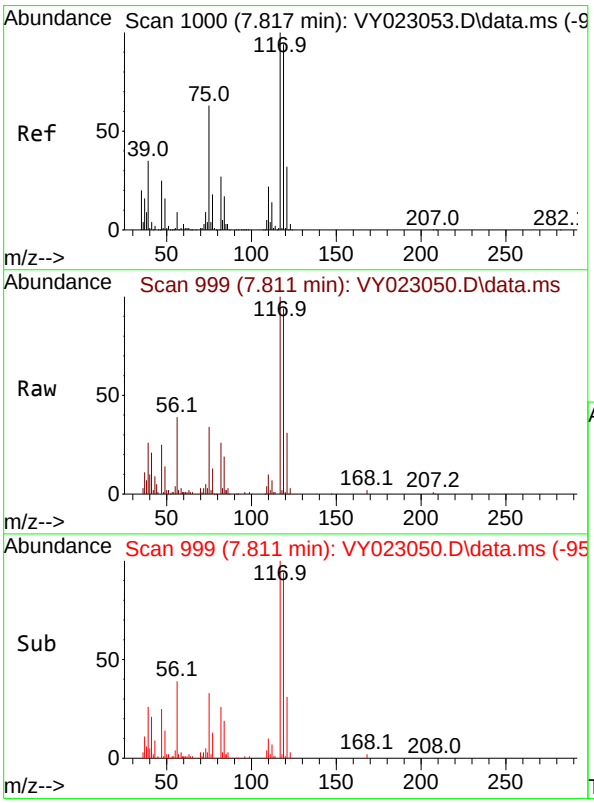
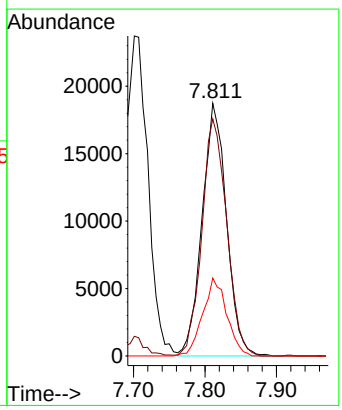


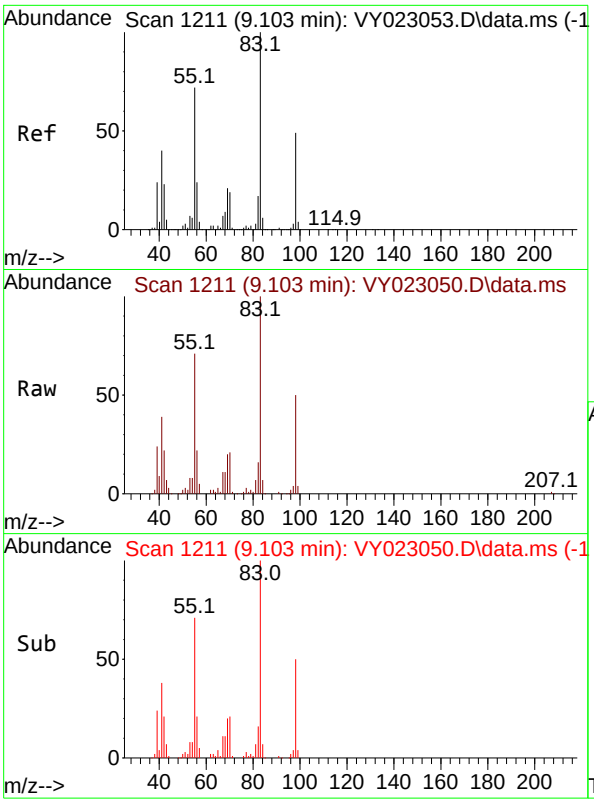


#38
Carbon Tetrachloride
Concen: 5.076 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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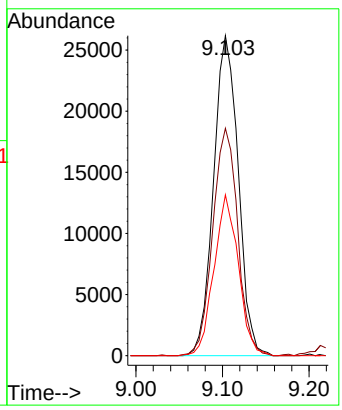
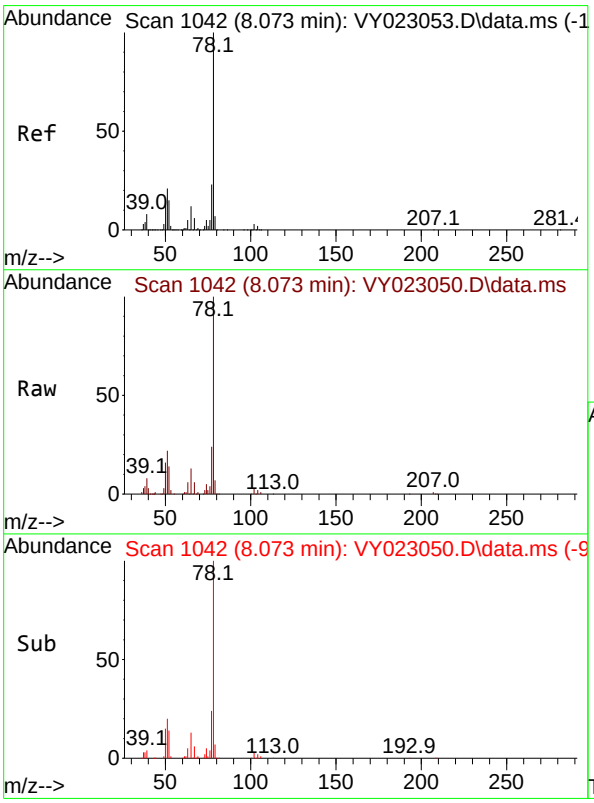
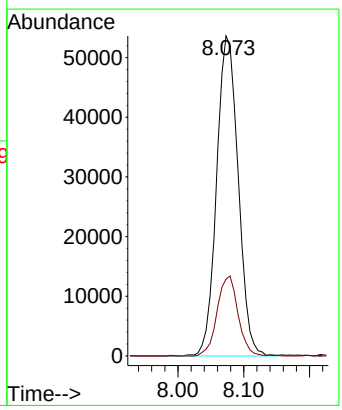


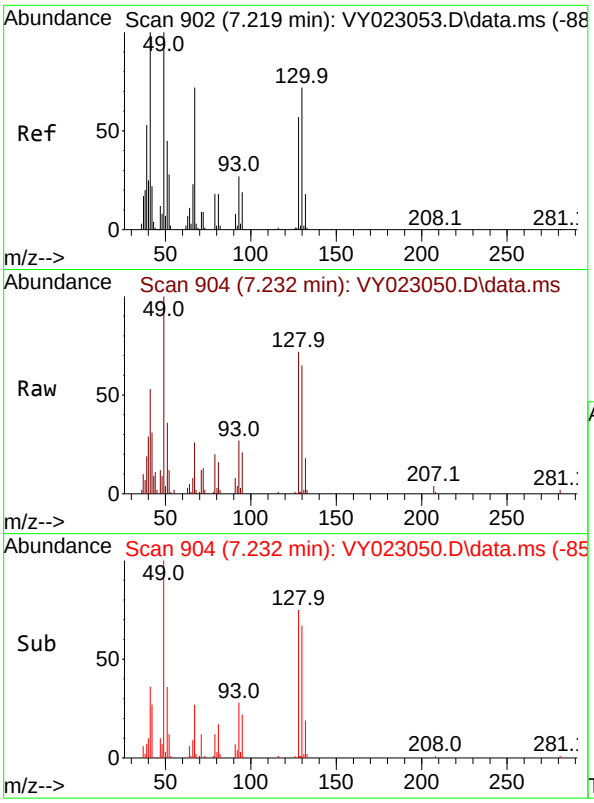


#40
Benzene
Concen: 4.939 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 78 Resp: 122482

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0

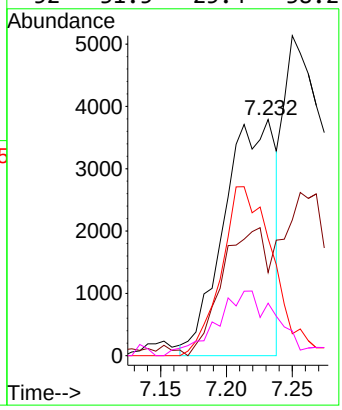




#41
Methacrylonitrile
Concen: 5.247 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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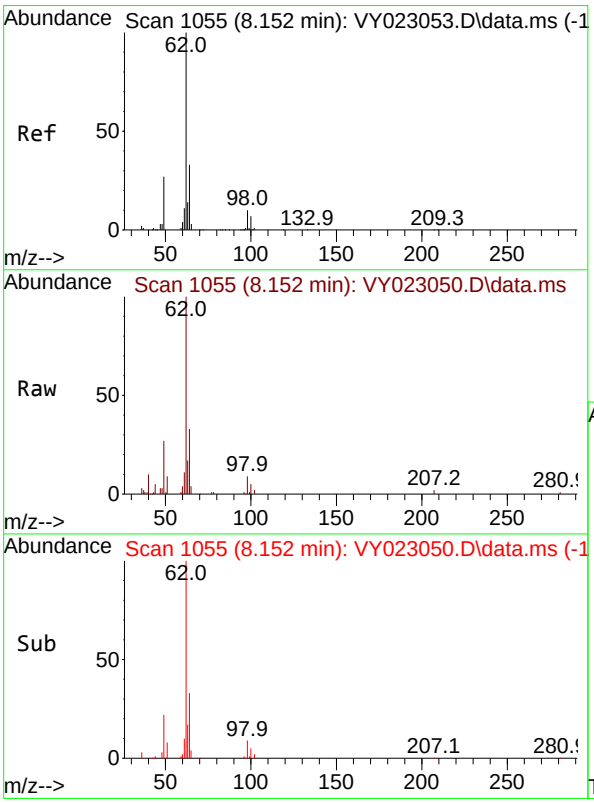
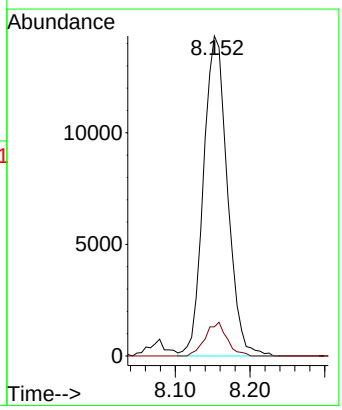
Supervised By :Semsettin Yesilyurt 08/14/2025

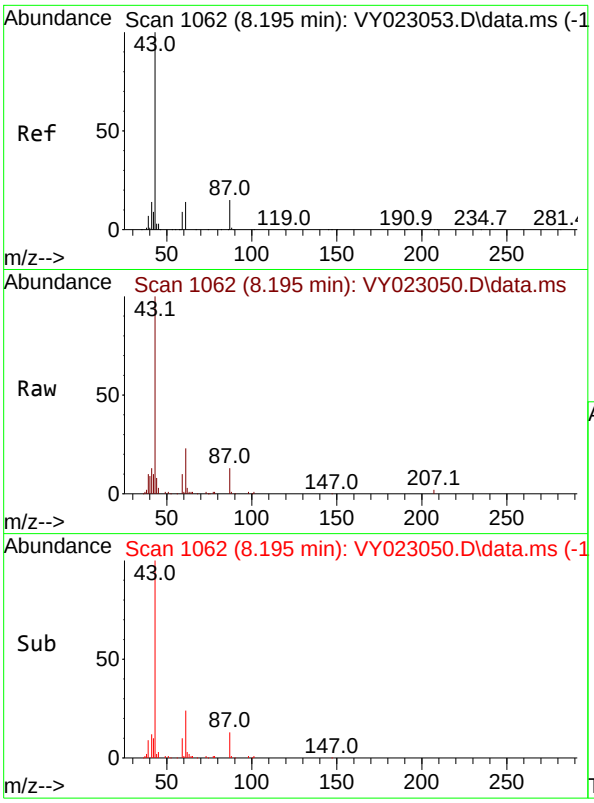


#42
1,2-Dichloroethane
Concen: 4.946 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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 APPROVED

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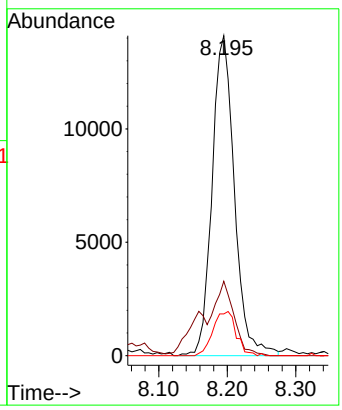
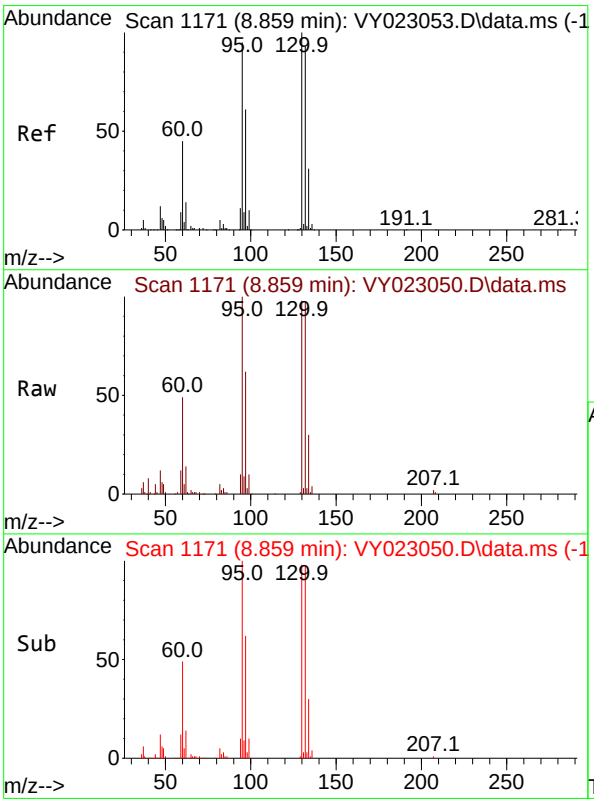
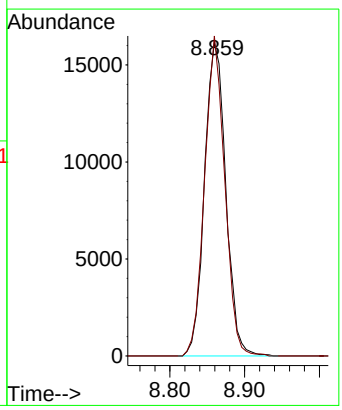


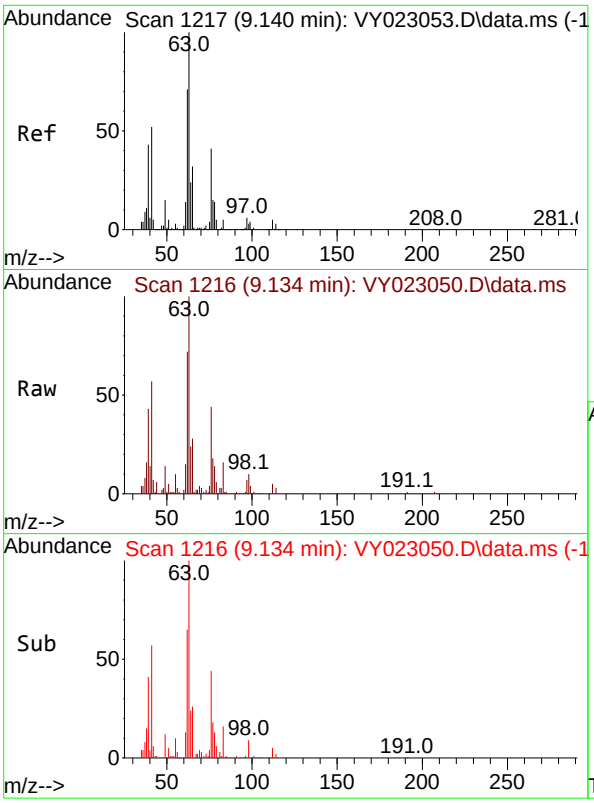


#44
Trichloroethene
Concen: 5.001 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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 APPROVED

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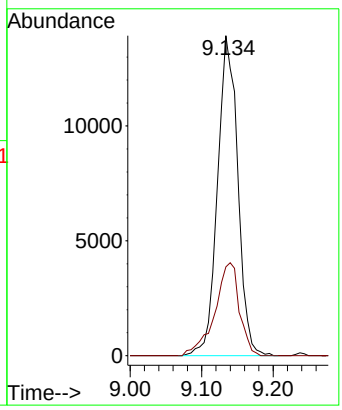
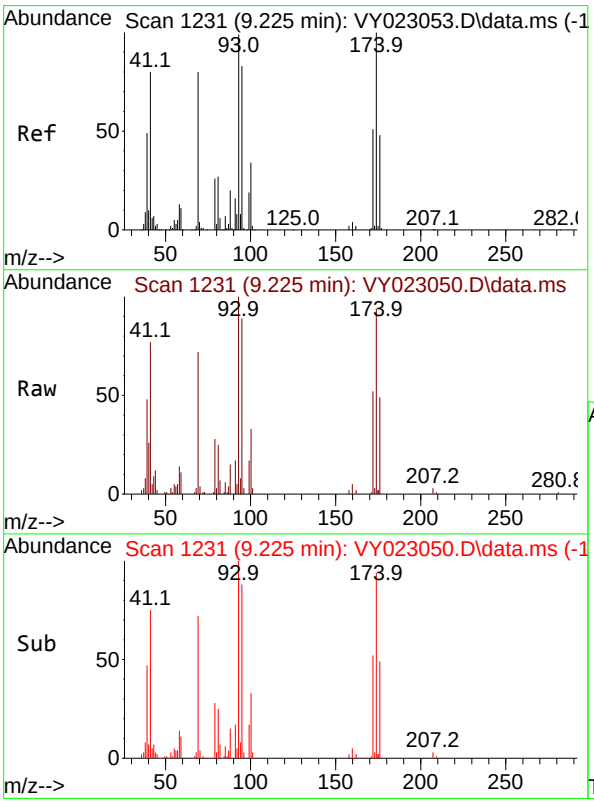
Supervised By :Semsettin Yesilyurt 08/14/2025

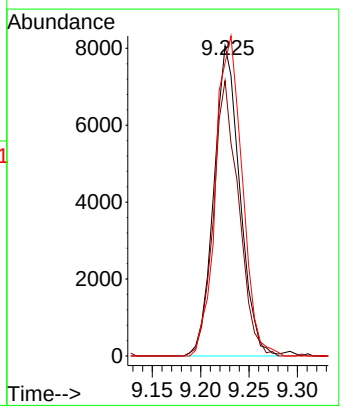


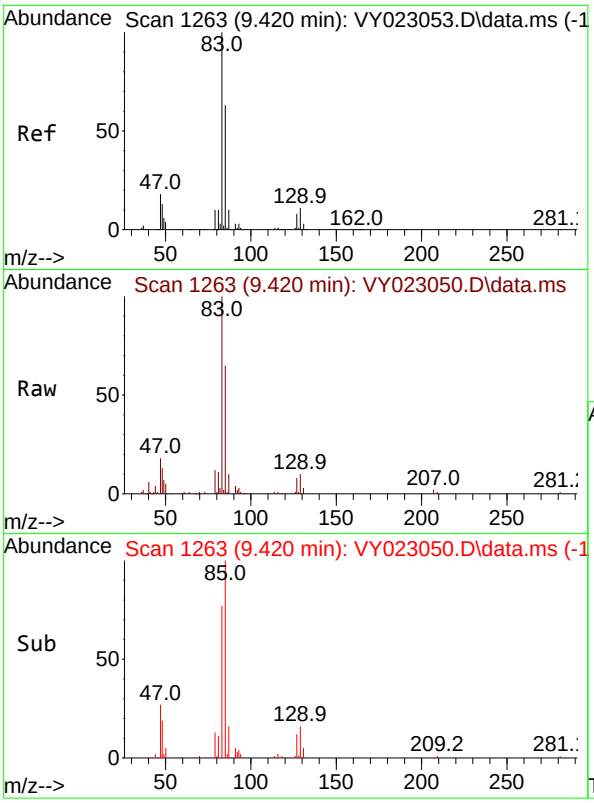


#46
Dibromomethane
Concen: 4.590 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

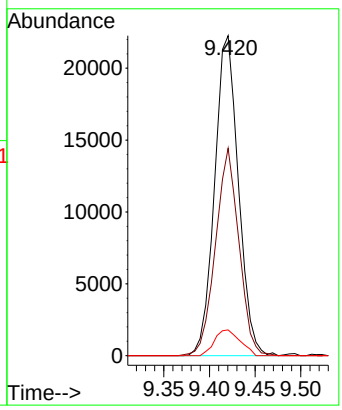




#47
Bromodichloromethane
Concen: 4.785 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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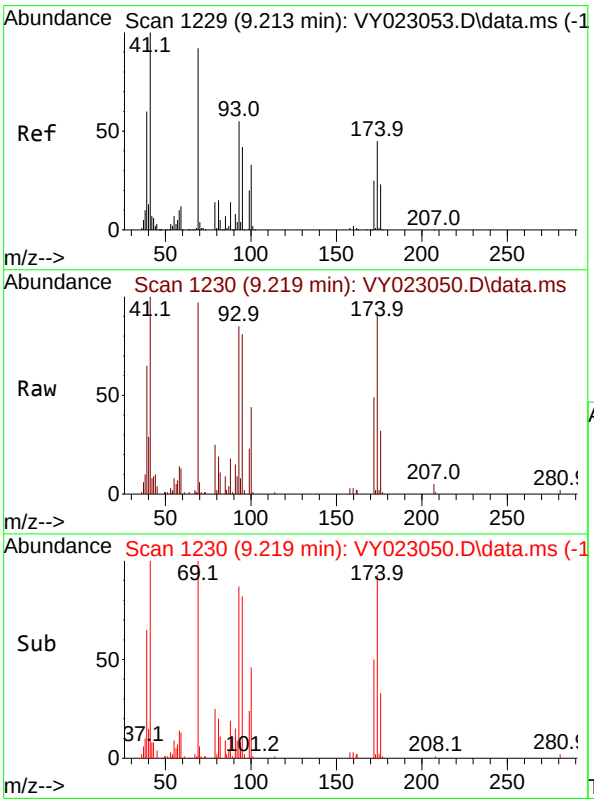
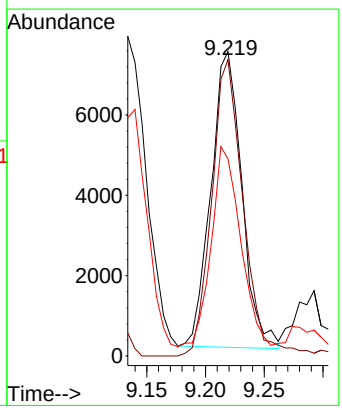
Supervised By :Semsettin Yesilyurt 08/14/2025

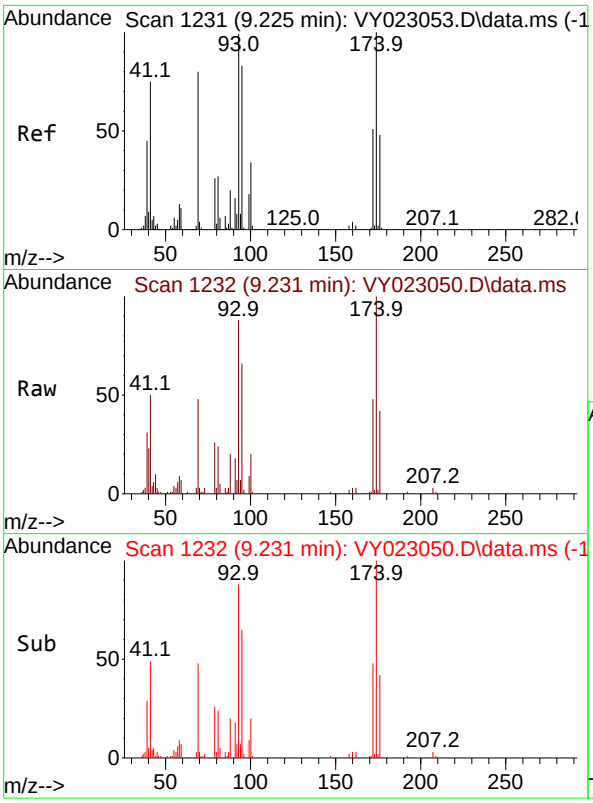


#48
Methyl methacrylate
Concen: 4.122 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

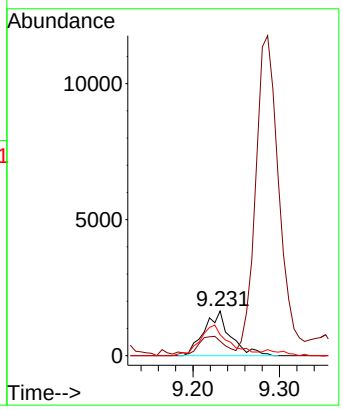




#49
1,4-Dioxane
Concen: 89.939 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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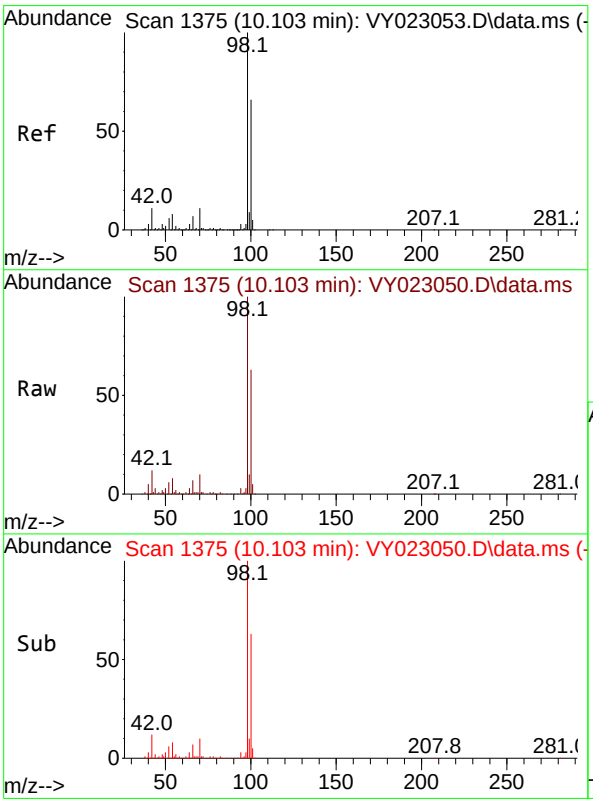
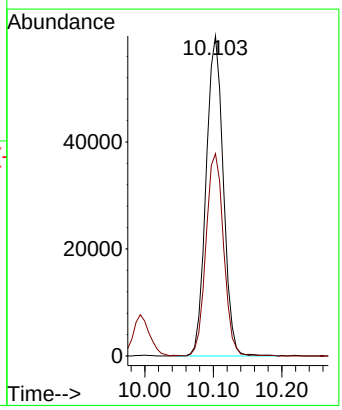
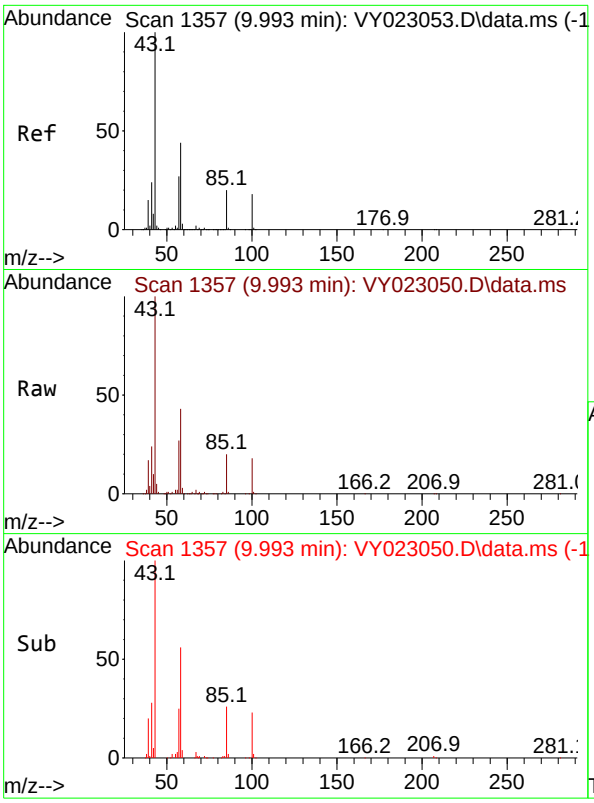


#50
Toluene-d8
Concen: 4.924 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 98 Resp: 104144

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5

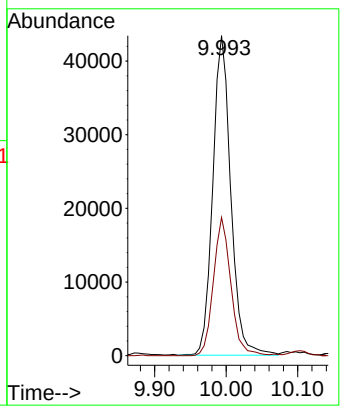




#51
4-Methyl-2-Pentanone
Concen: 21.535 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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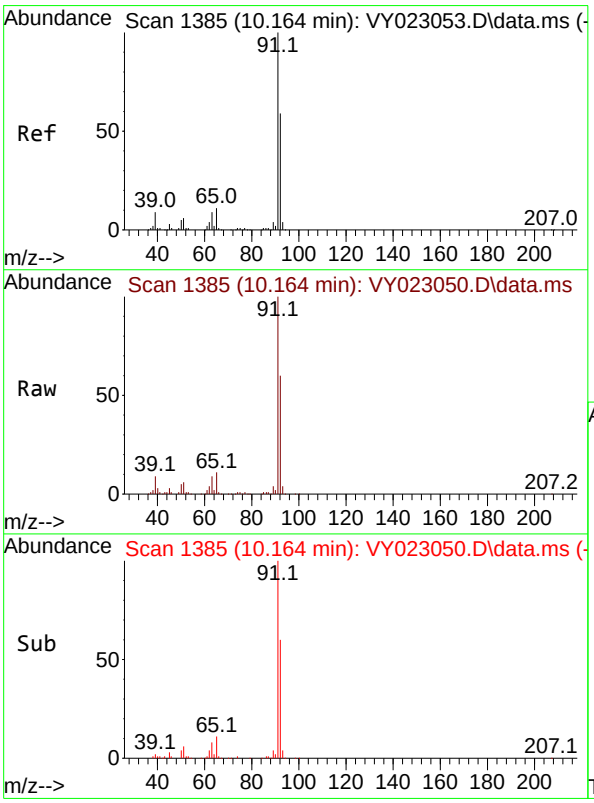
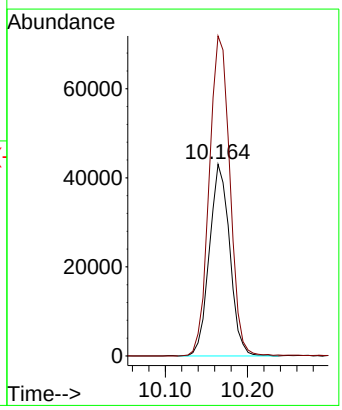
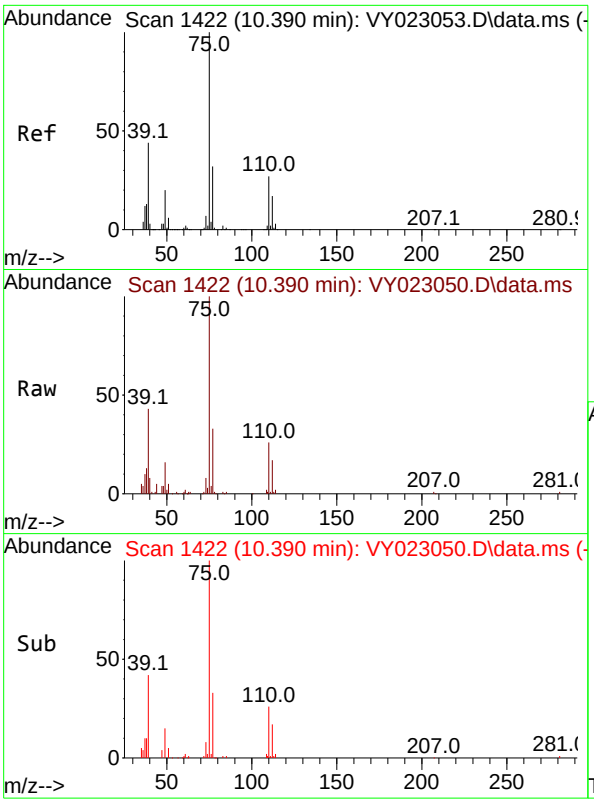


#52
Toluene
Concen: 4.692 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 92 Resp: 73910

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.4	204.6

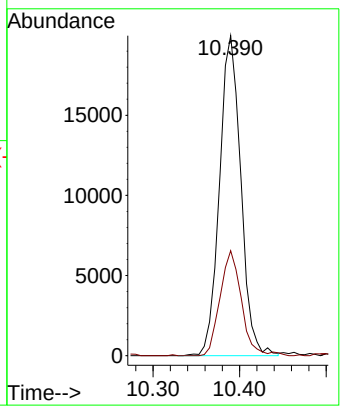




#53
t-1,3-Dichloropropene
Concen: 4.475 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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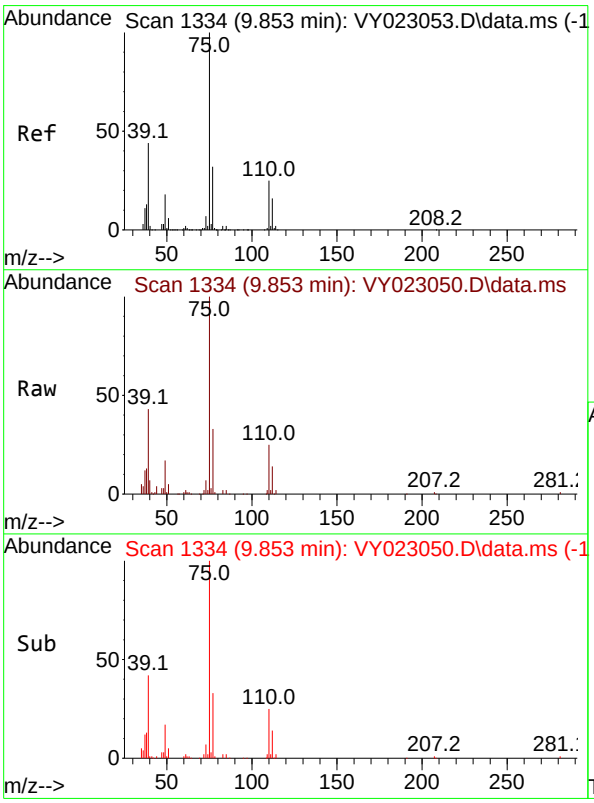
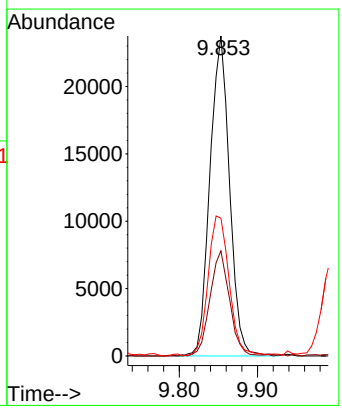
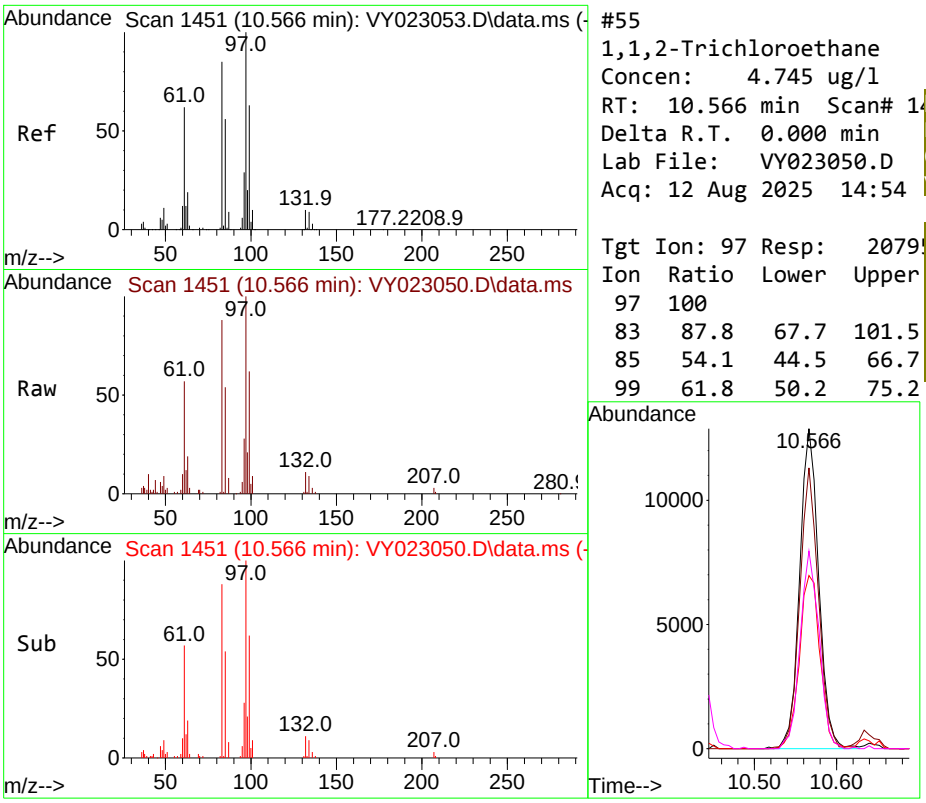


#54
cis-1,3-Dichloropropene
Concen: 4.579 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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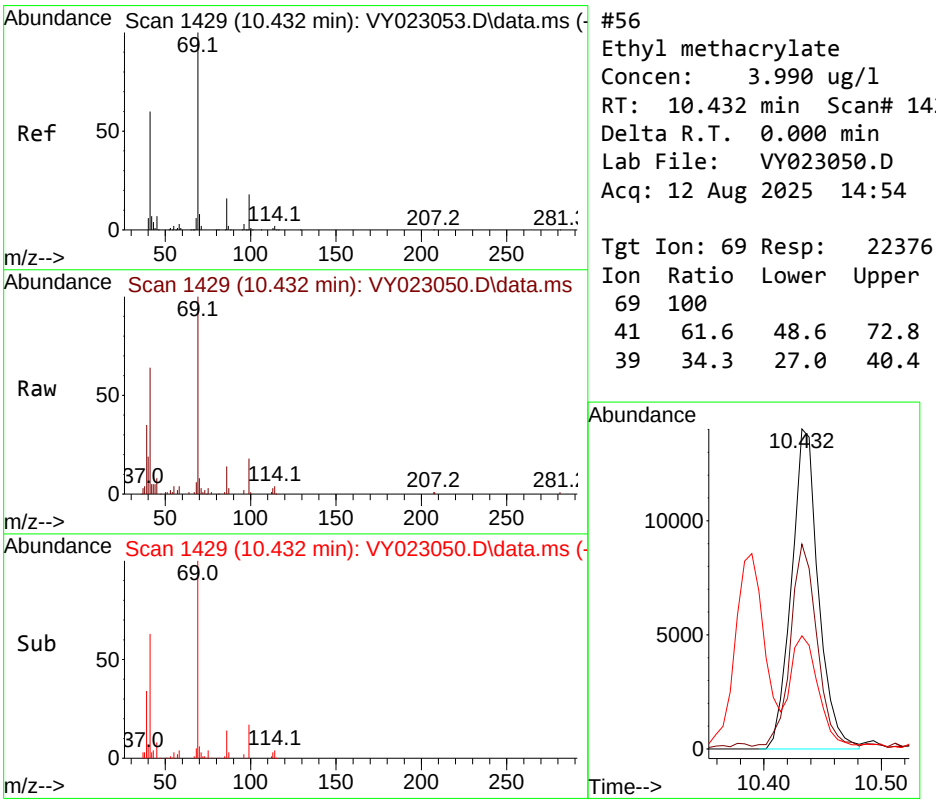
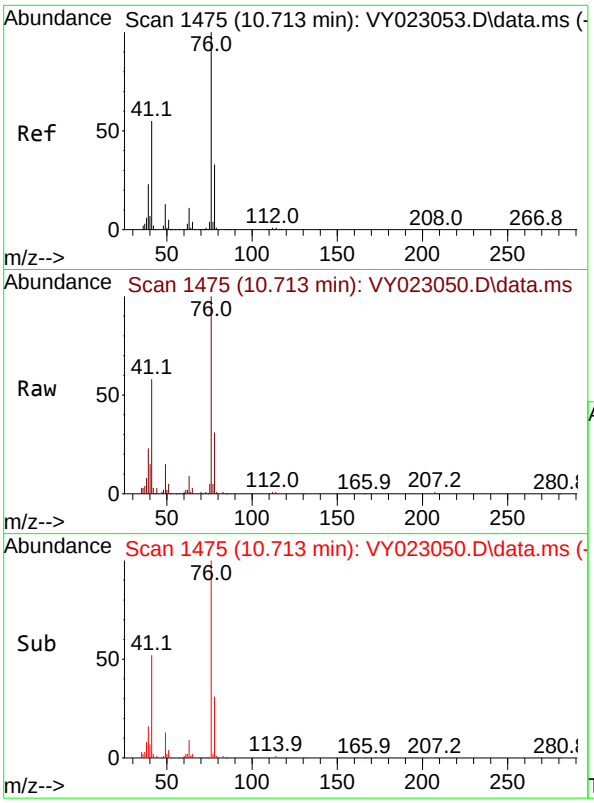


#56
Ethyl methacrylate
Concen: 3.990 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 69 Resp: 22376

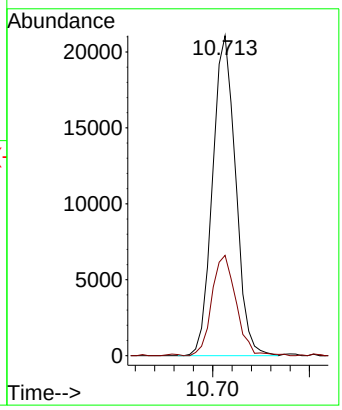
Ion	Ratio	Lower	Upper
69	100		
41	61.6	48.6	72.8
39	34.3	27.0	40.4



#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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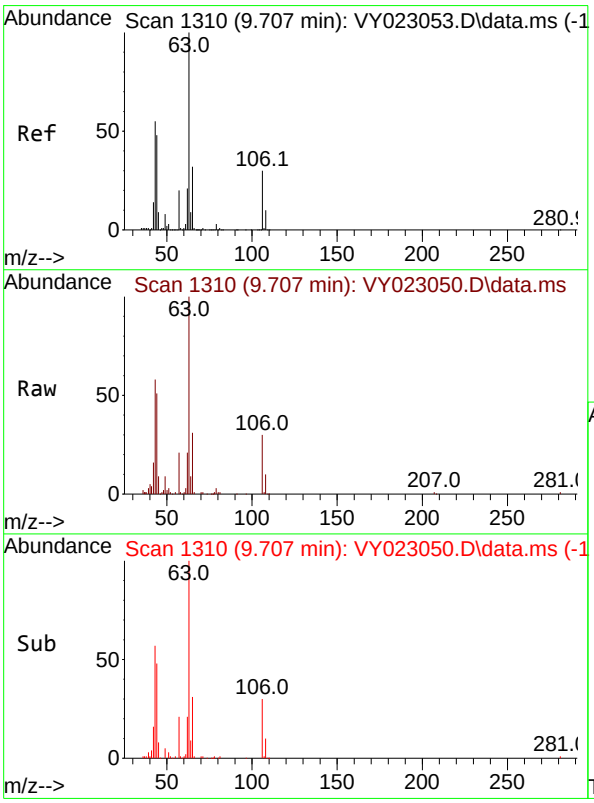
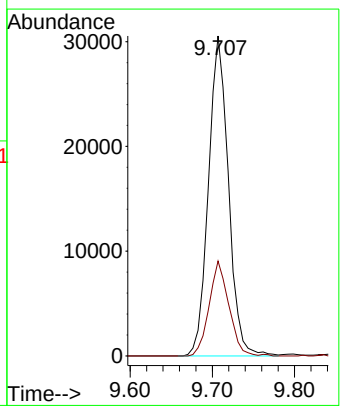
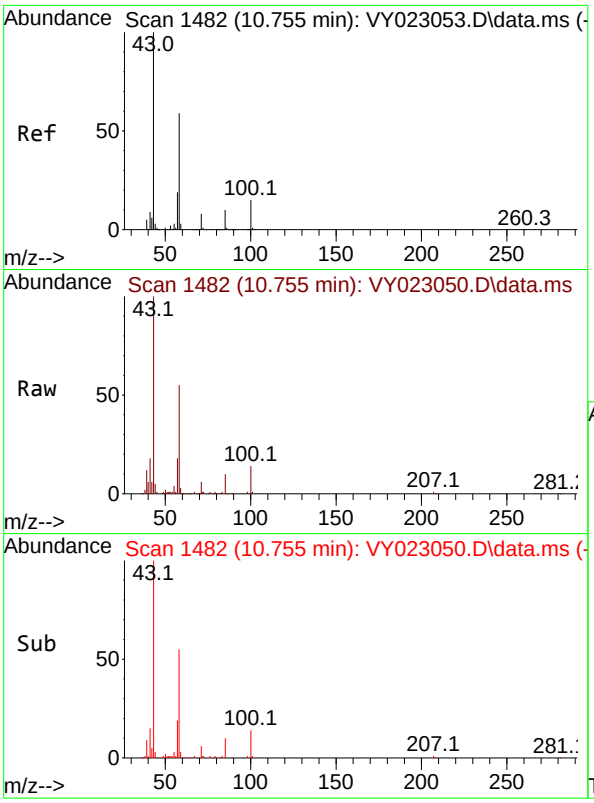


#58
2-Chloroethyl Vinyl ether
Concen: 19.500 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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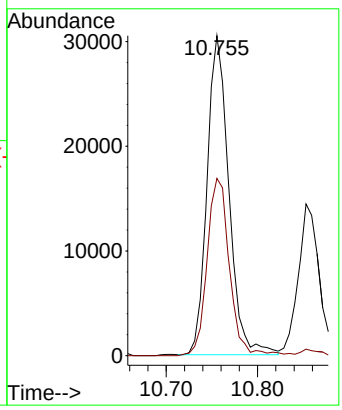
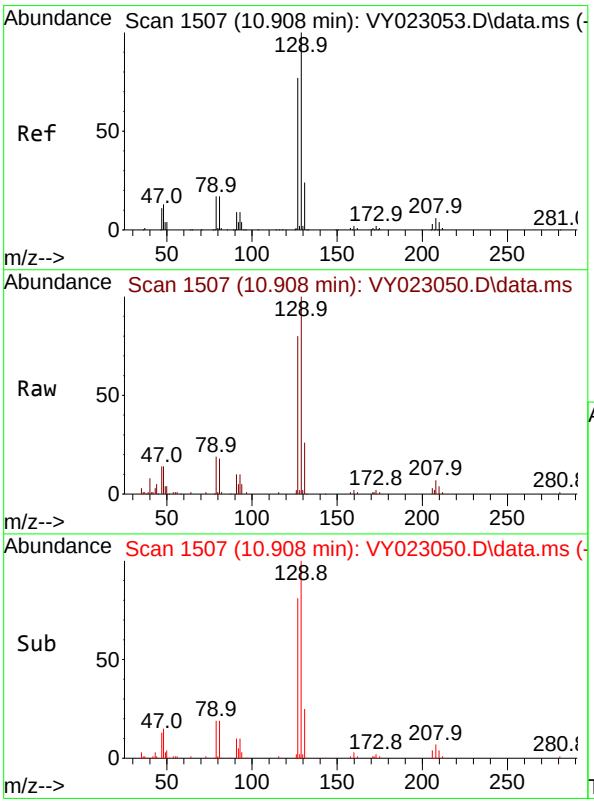
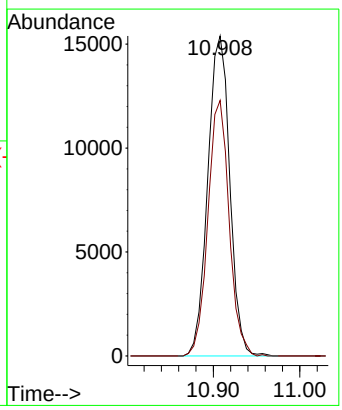


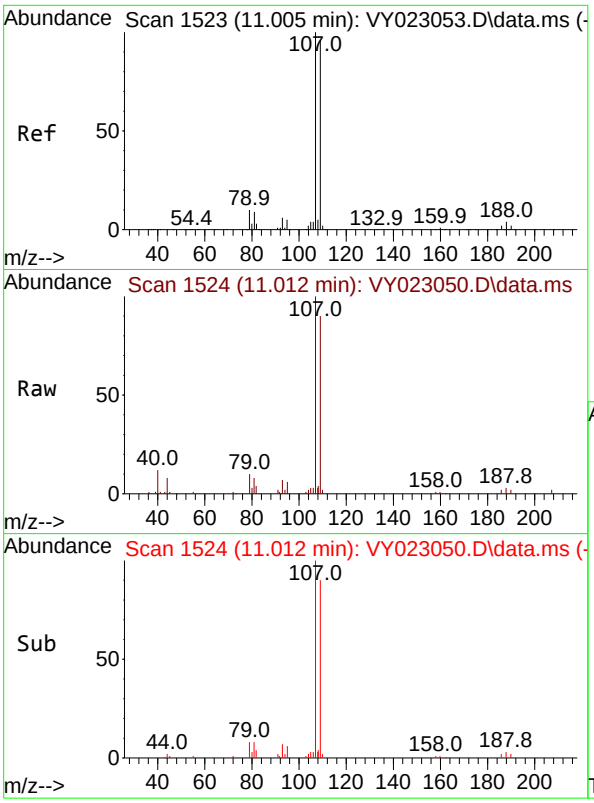


#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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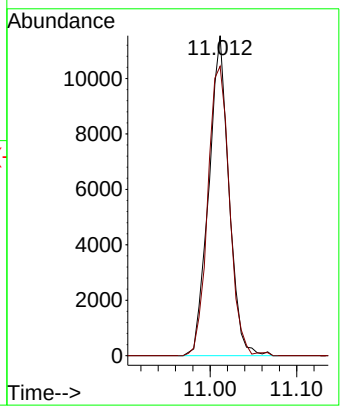
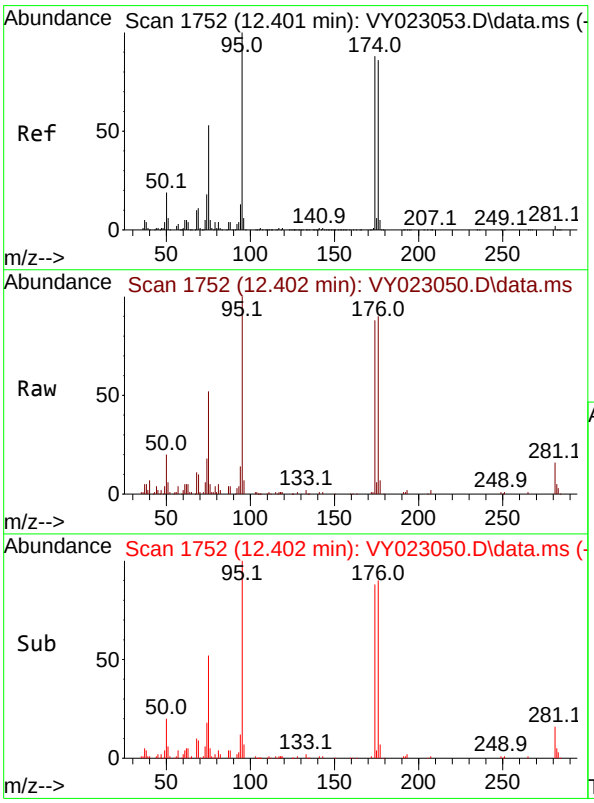
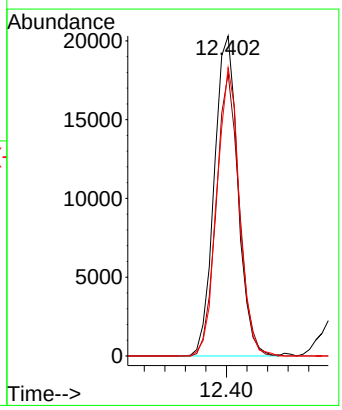


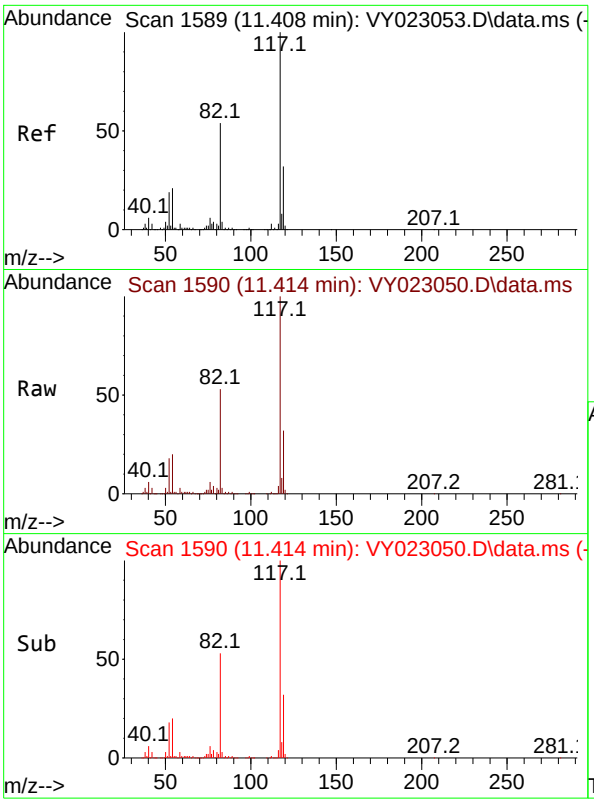


#62
4-Bromofluorobenzene
Concen: 4.766 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

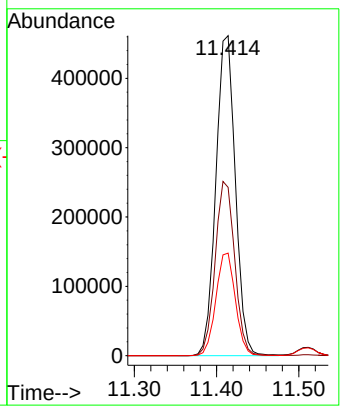




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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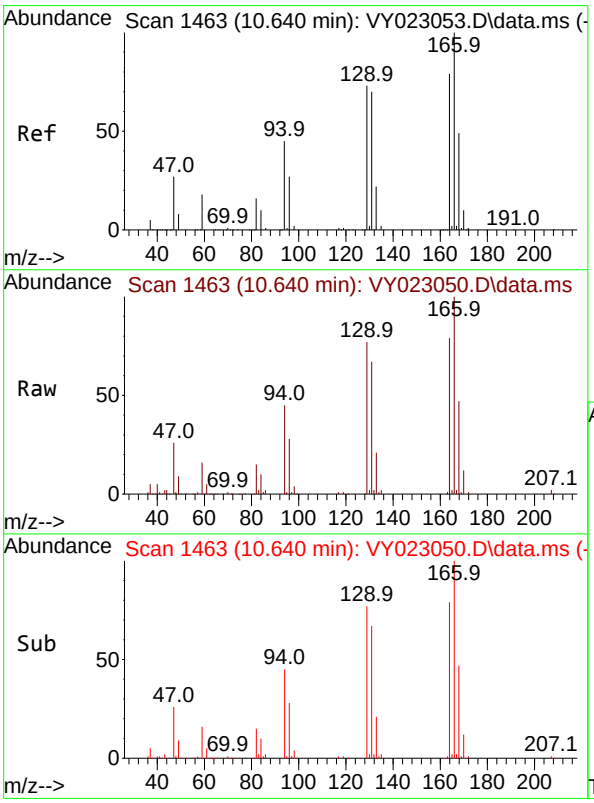
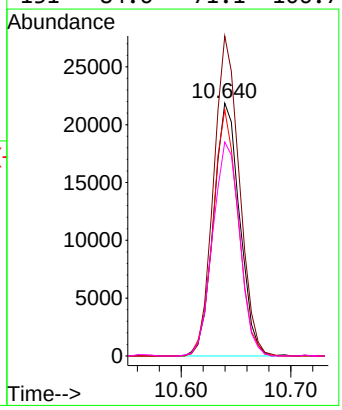
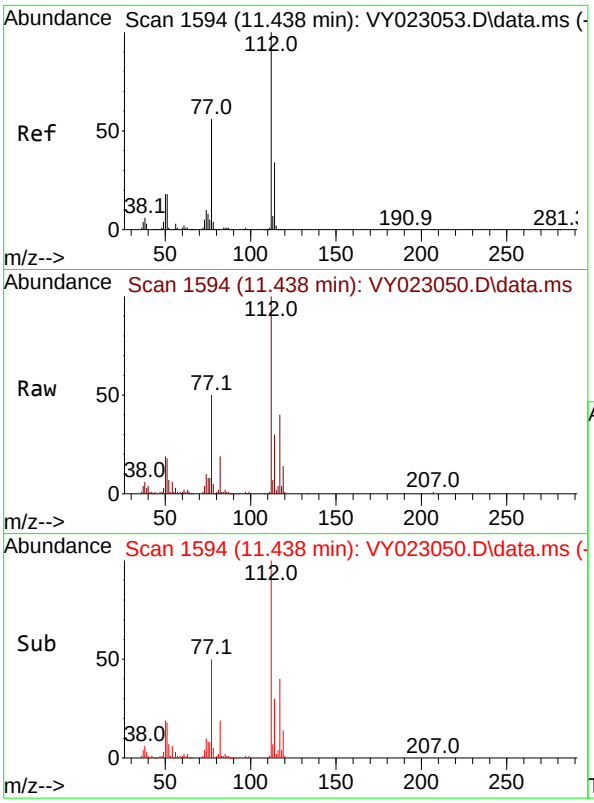


#64
Tetrachloroethene
Concen: 5.336 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

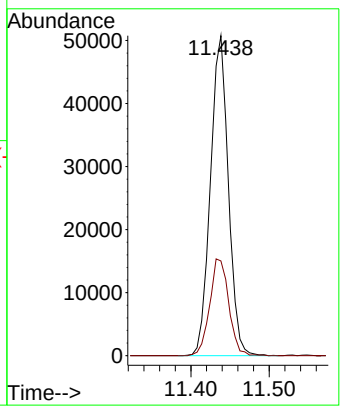




#65
Chlorobenzene
Concen: 4.922 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:112 Resp: 8068

Ion	Ratio	Lower	Upper
112	100		
114	29.6	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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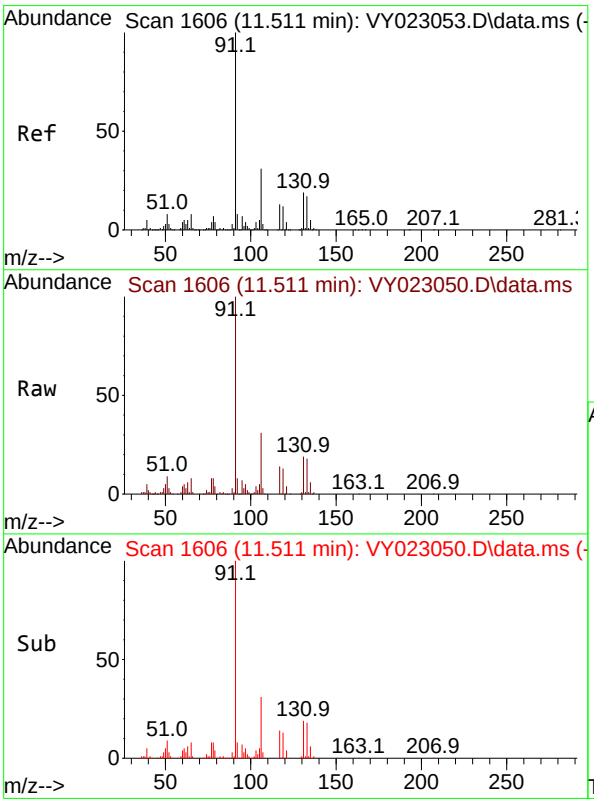
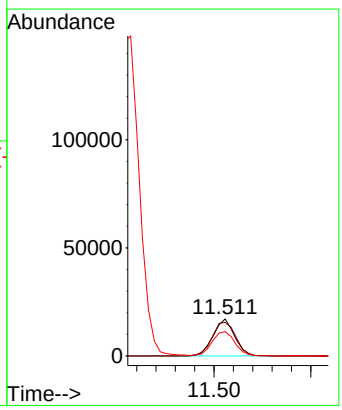
Supervised By :Semsettin Yesilyurt 08/14/2025

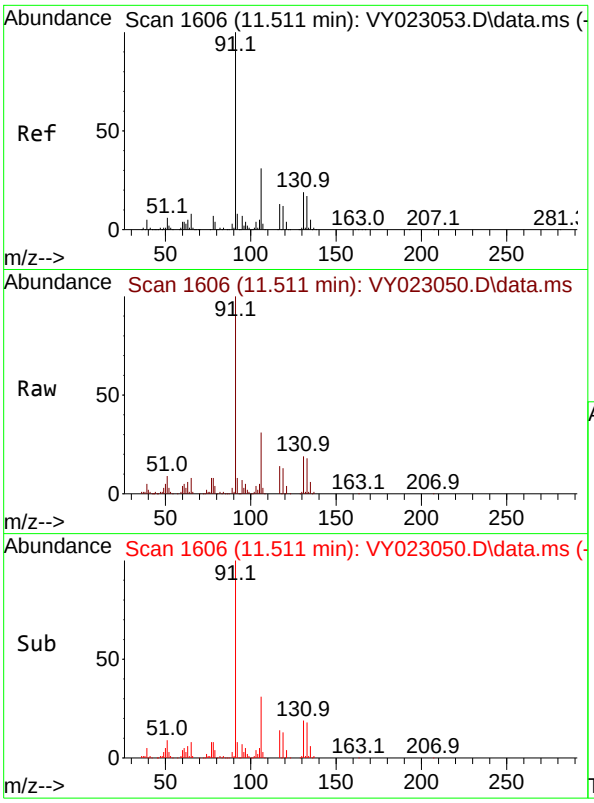


#66
1,1,1,2-Tetrachloroethane
Concen: 4.745 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

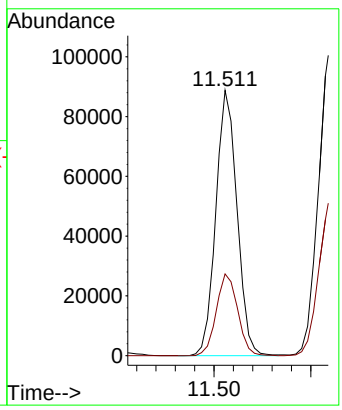




#67
Ethyl Benzene
Concen: 4.781 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 13485

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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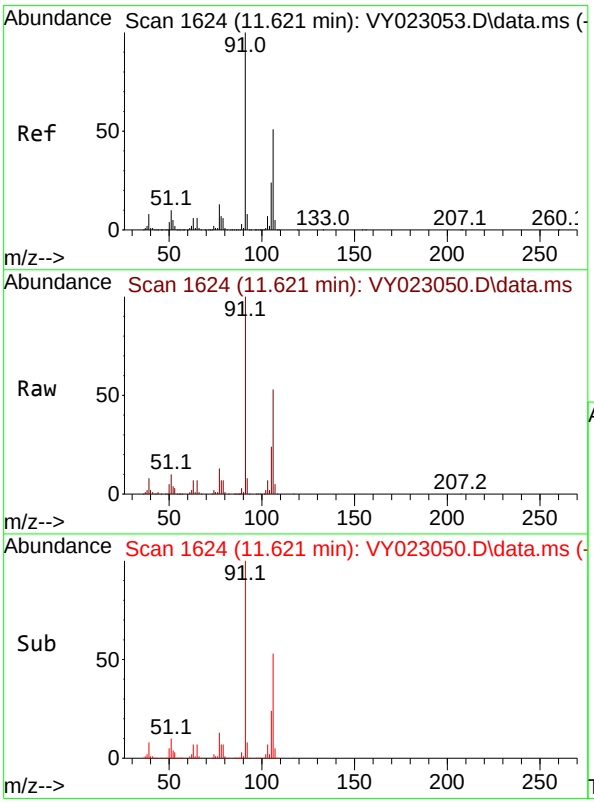
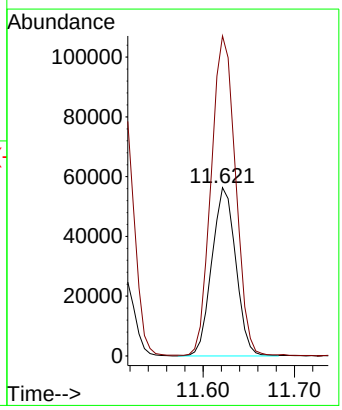
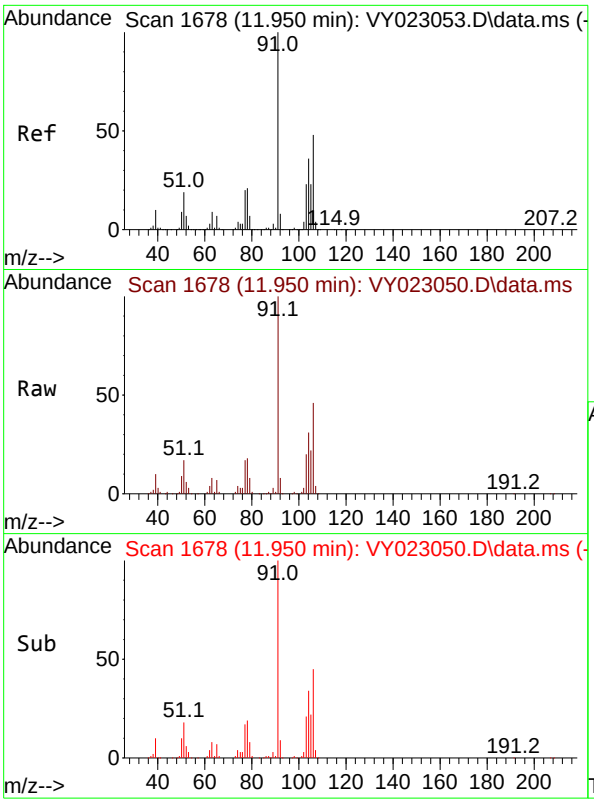


#68
m/p-Xylenes
Concen: 9.329 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 102783

Ion	Ratio	Lower	Upper
106	100		
91	194.0	158.6	238.0

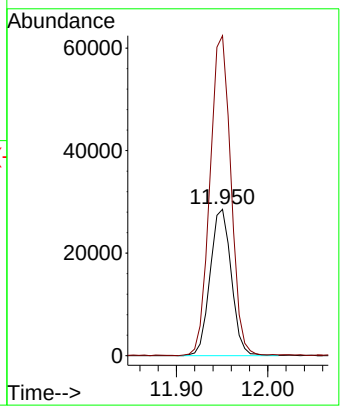




#69
o-Xylene
Concen: 4.453 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 4594

Ion	Ratio	Lower	Upper
106	100		
91	216.3	103.2	309.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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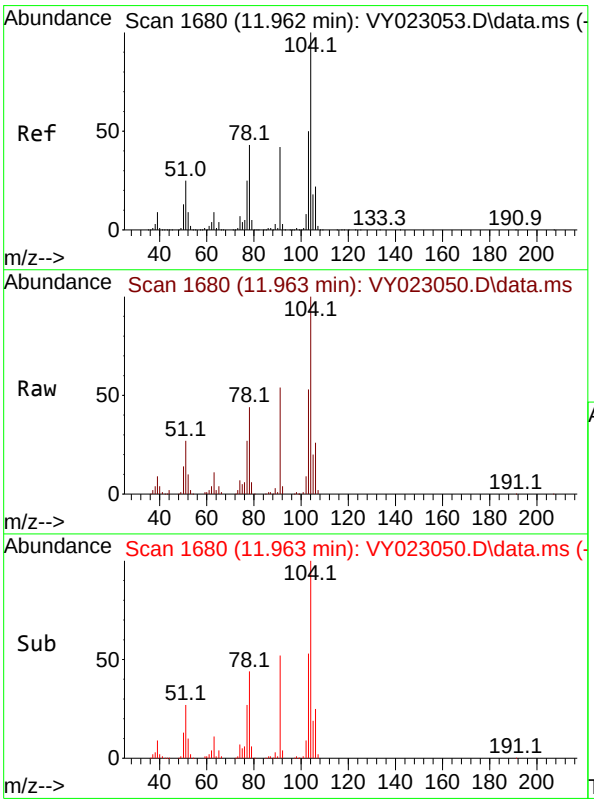
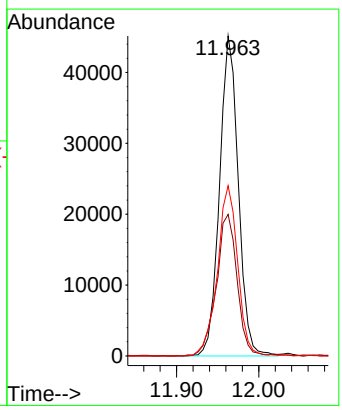
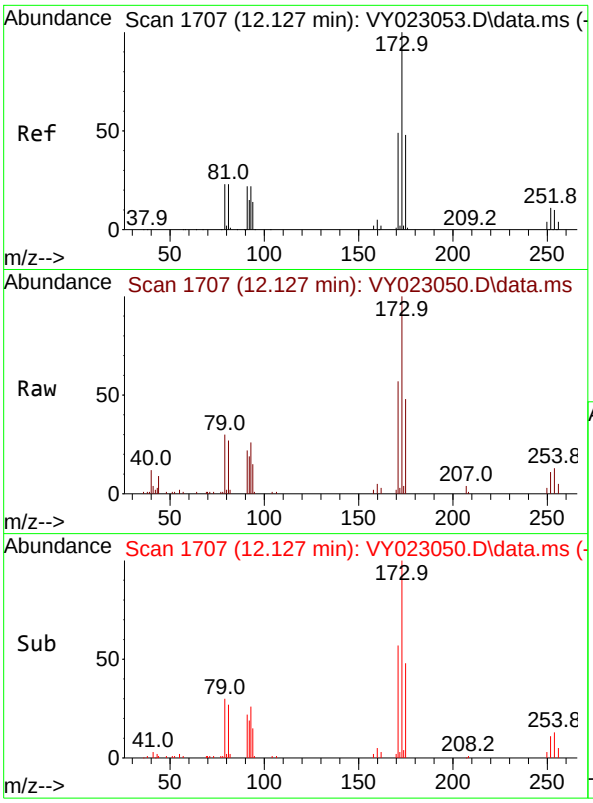


#70
Styrene
Concen: 4.255 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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 APPROVED

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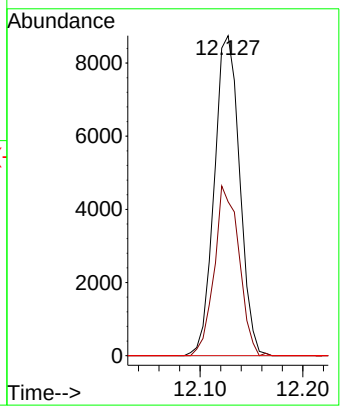
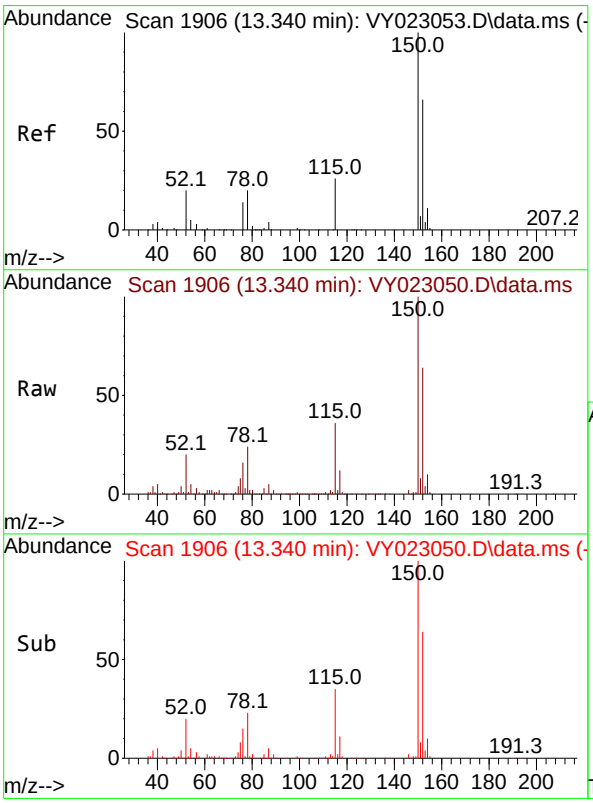
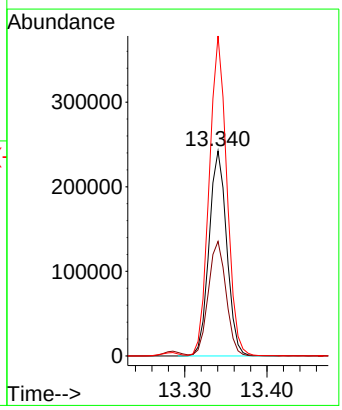


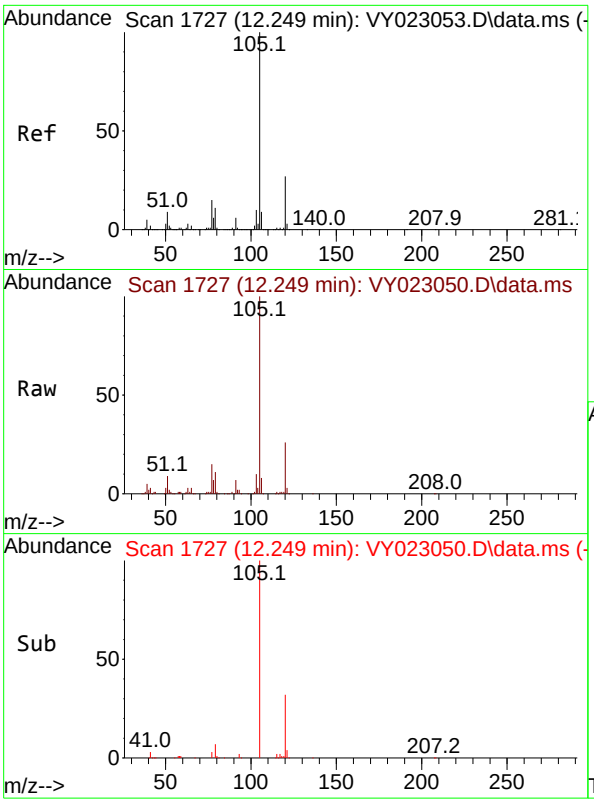


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

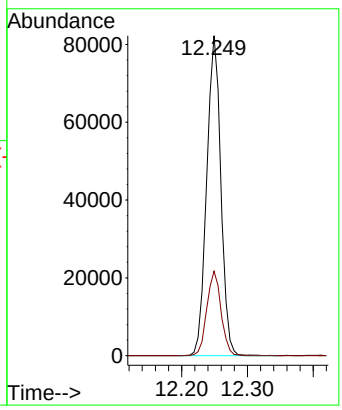




#73
Isopropylbenzene
Concen: 4.845 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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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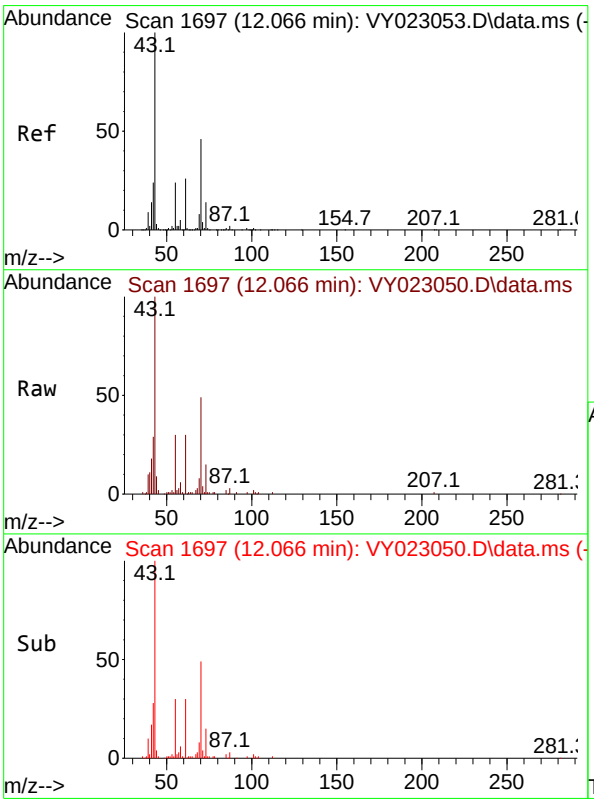
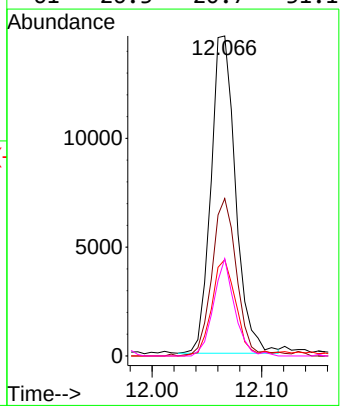
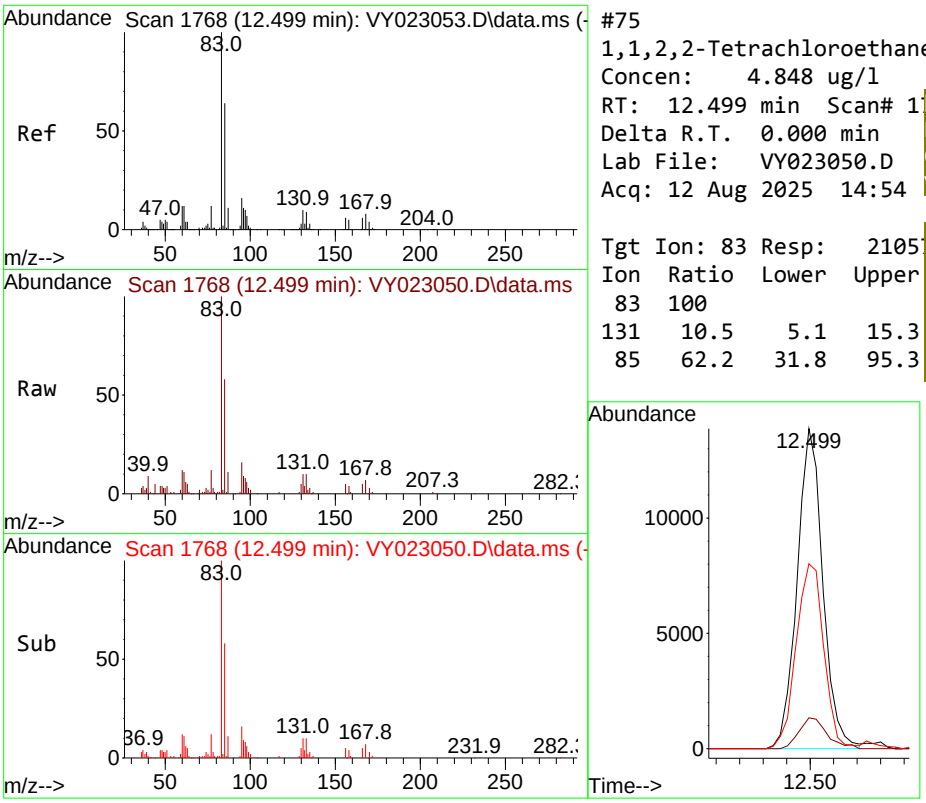


#74
N-amyl acetate
Concen: 4.232 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

Manual Integrations
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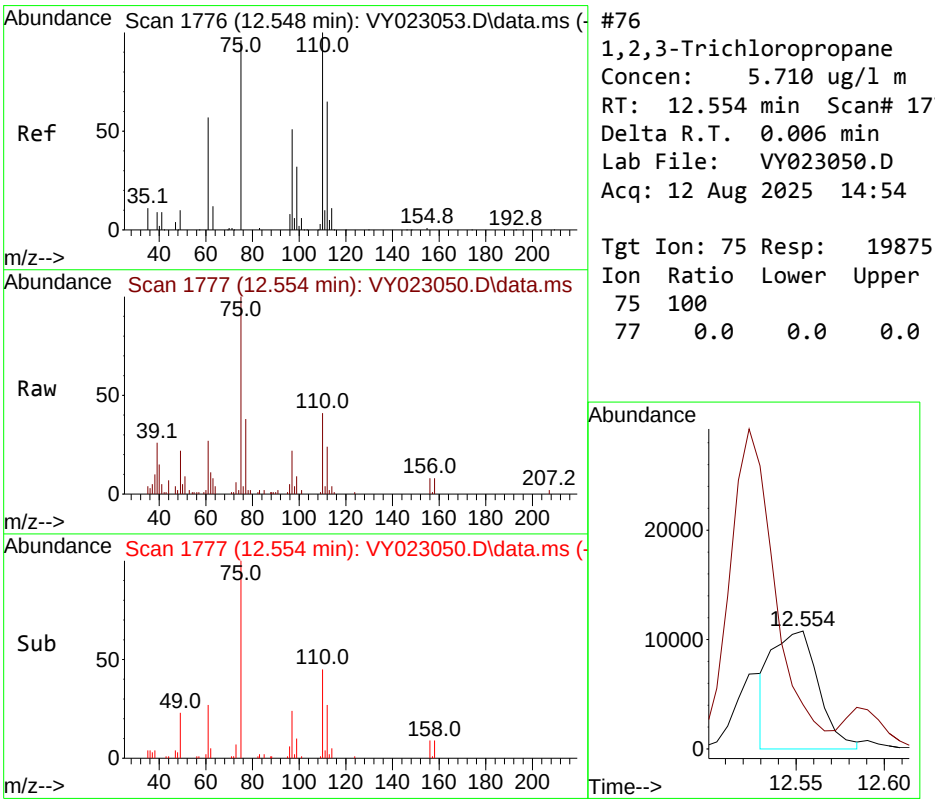
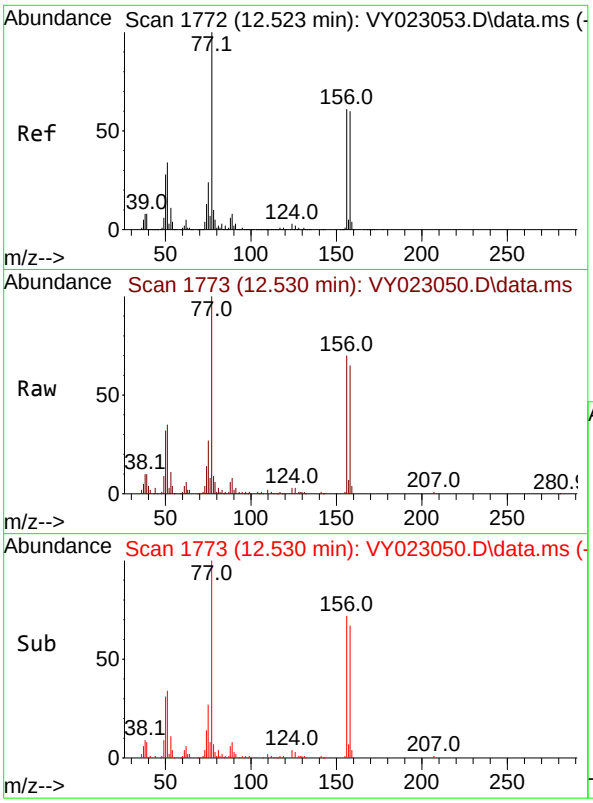


#76
1,2,3-Trichloropropane
Concen: 5.710 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 19875

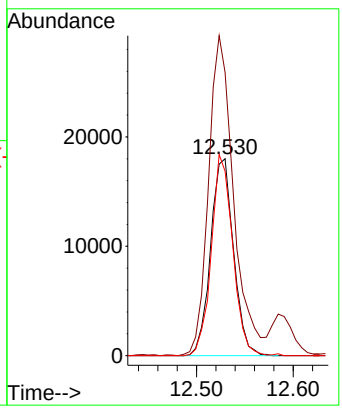
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



#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

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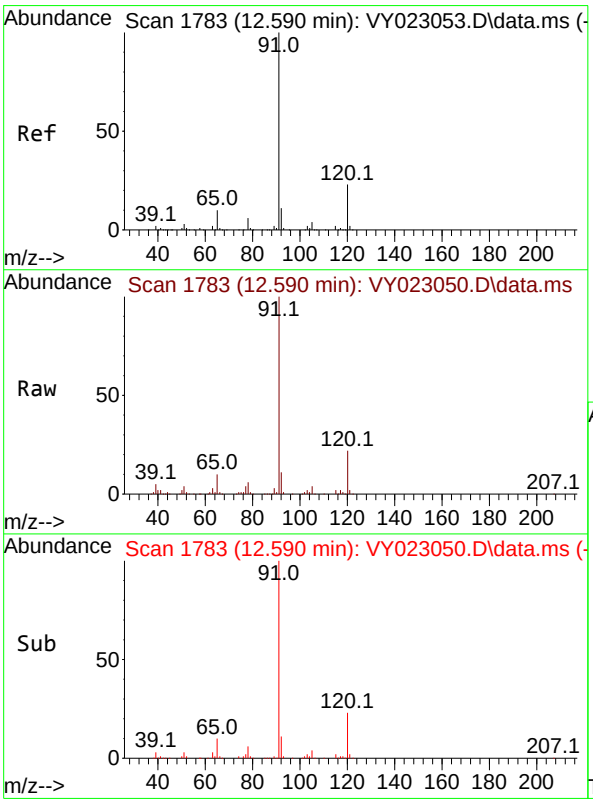
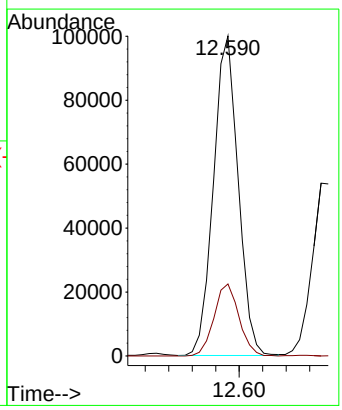
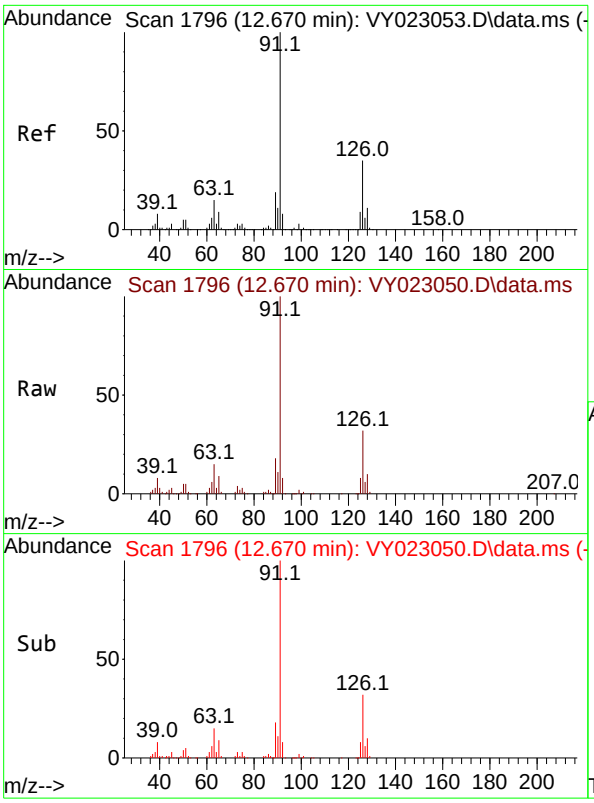


#78
n-propylbenzene
Concen: 4.822 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 146043

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.5	34.5

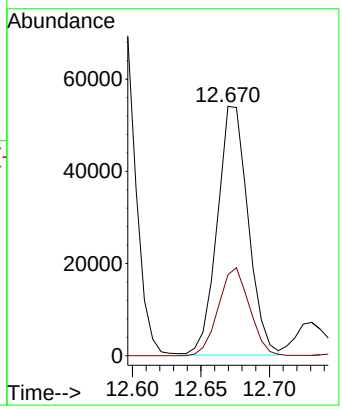




#79
2-Chlorotoluene
Concen: 4.880 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 8467

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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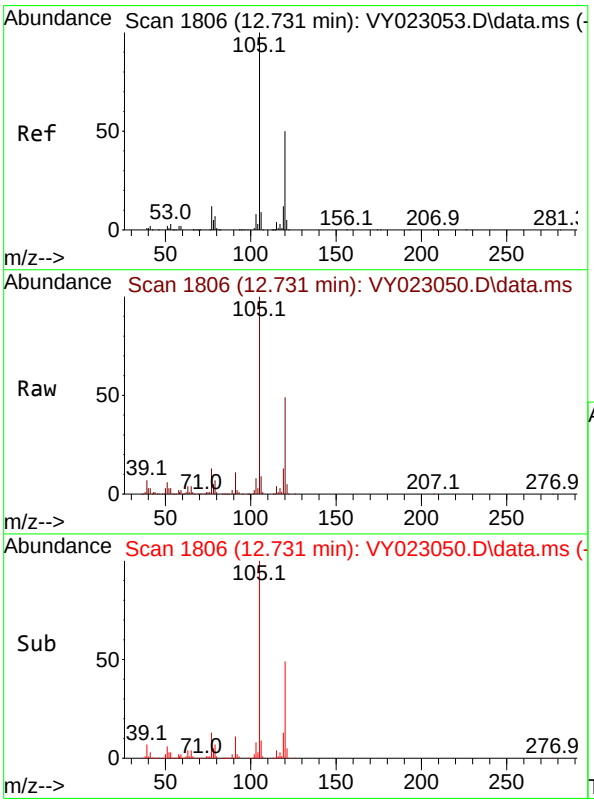
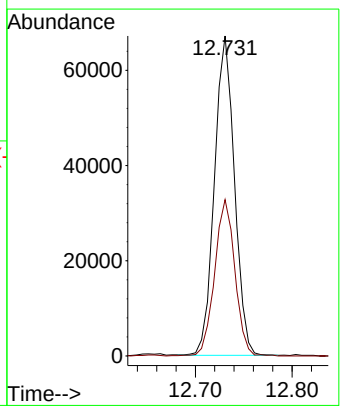
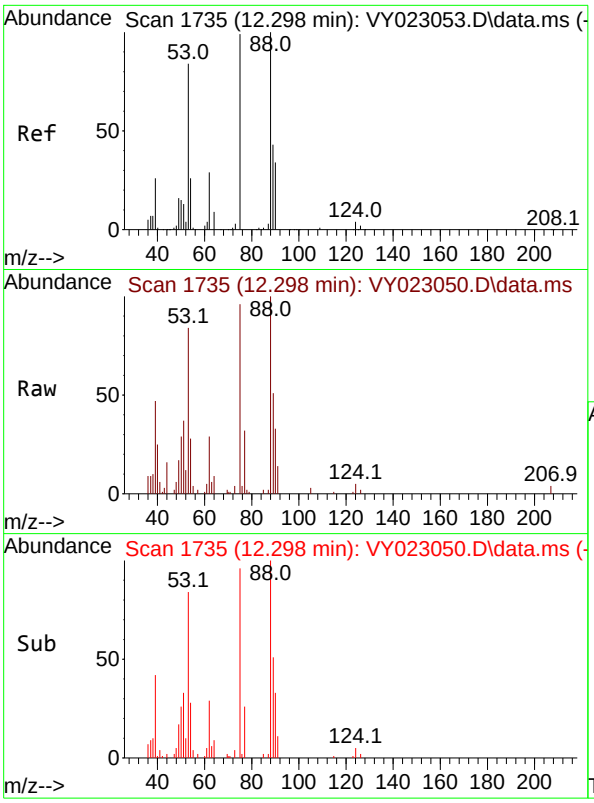


#80
1,3,5-Trimethylbenzene
Concen: 4.685 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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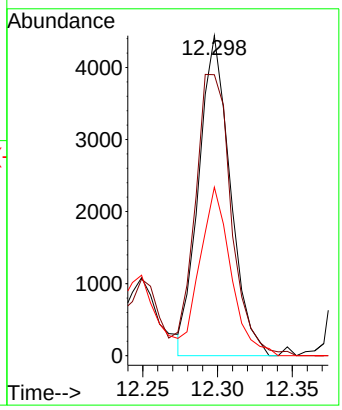
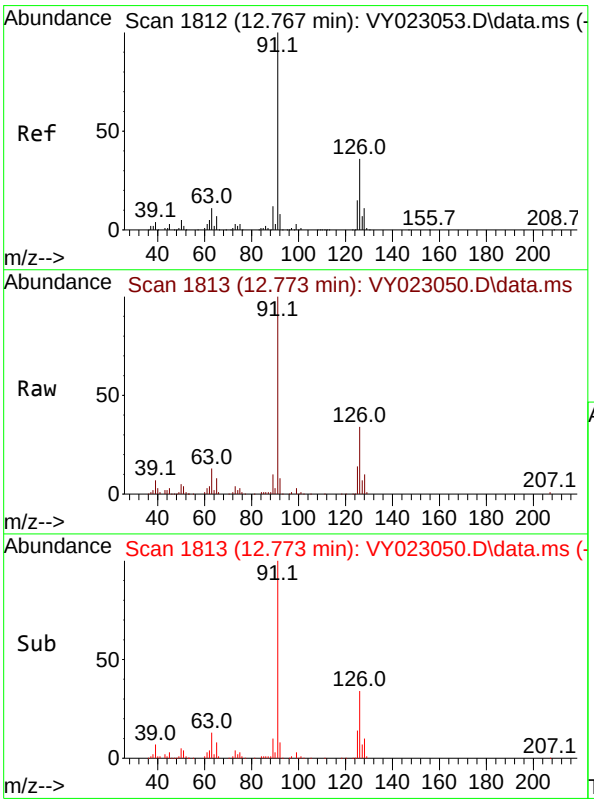
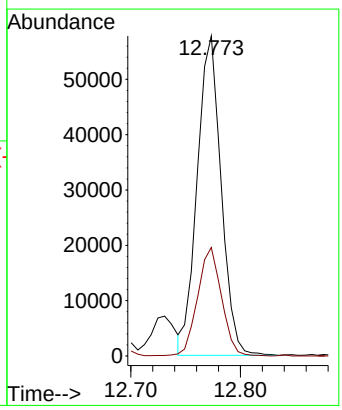


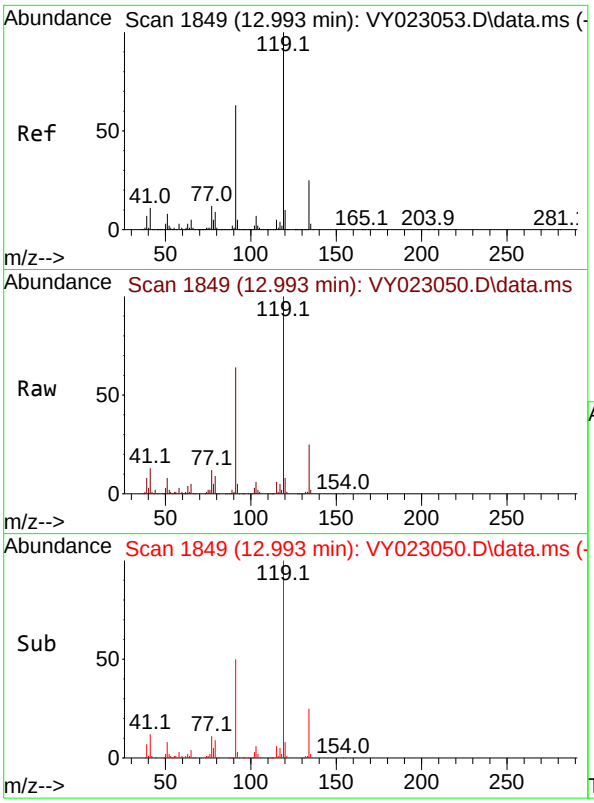


#82
4-Chlorotoluene
Concen: 4.859 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 87454

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.3	52.0

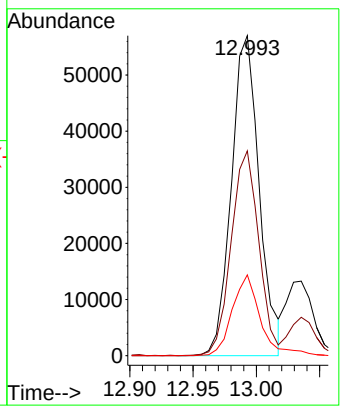




#83
tert-Butylbenzene
Concen: 4.712 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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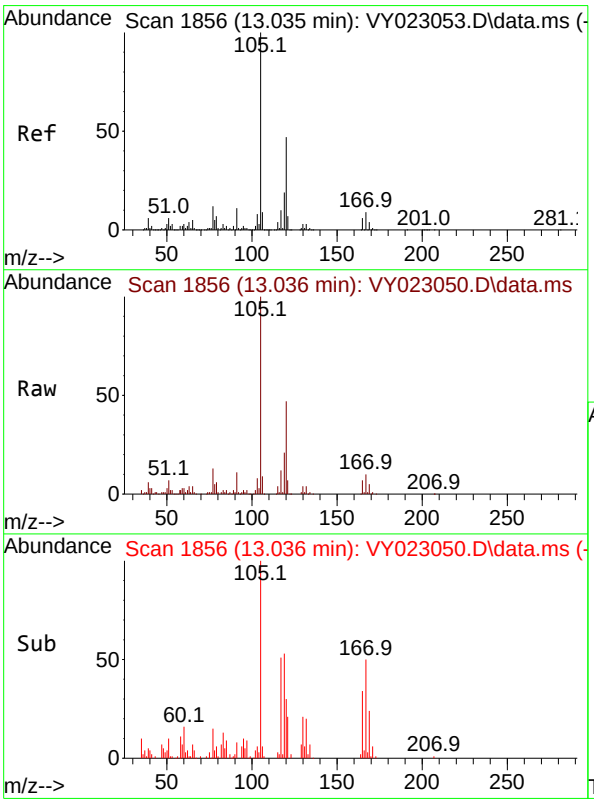
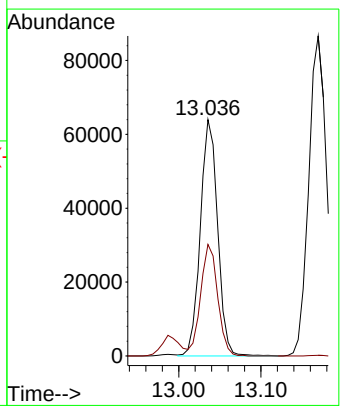
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

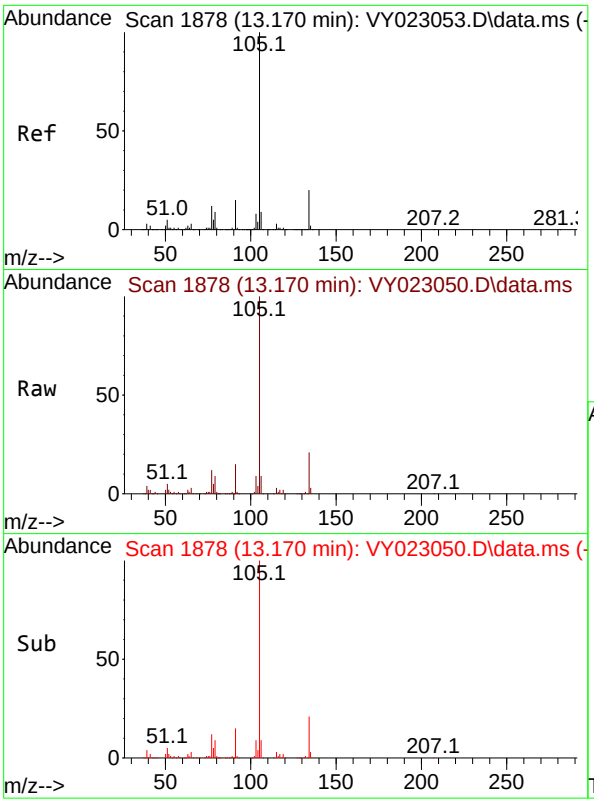


#84
1,2,4-Trimethylbenzene
Concen: 4.571 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

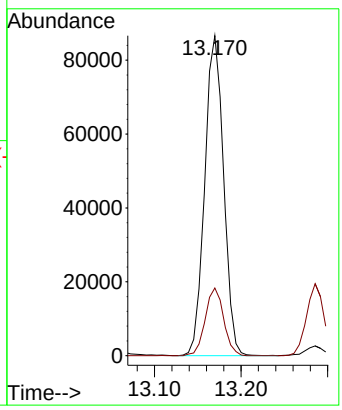
Tgt Ion:105 Resp: 13107

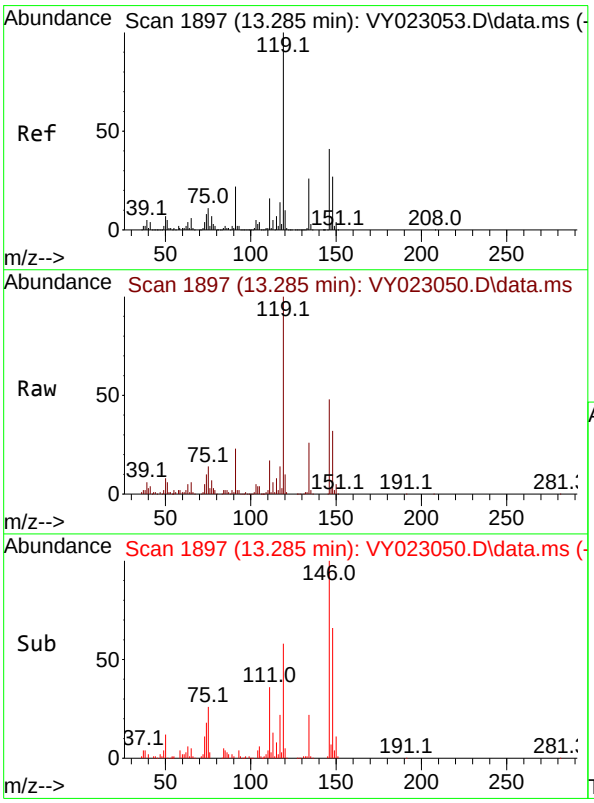
Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.2	30.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

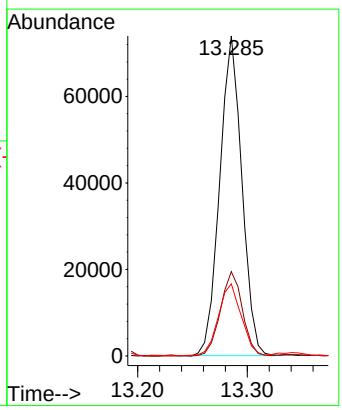


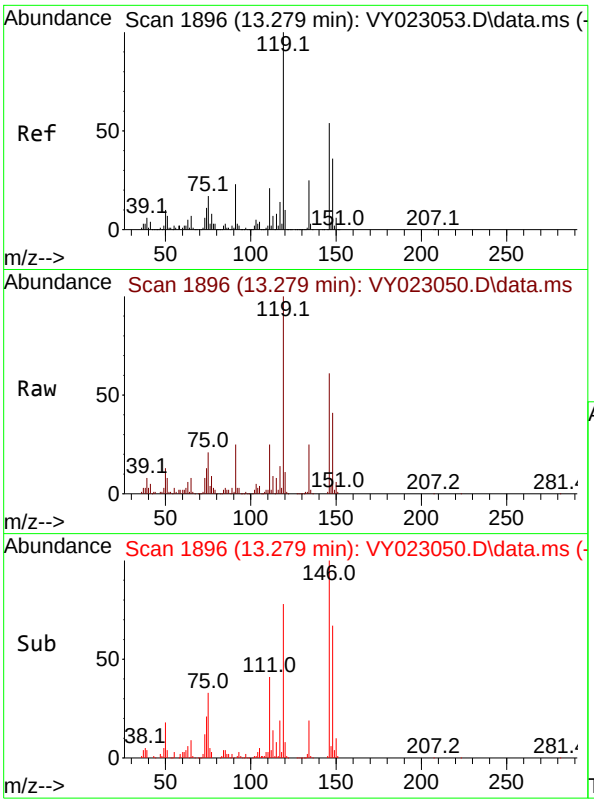


#86
p-Isopropyltoluene
Concen: 4.582 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

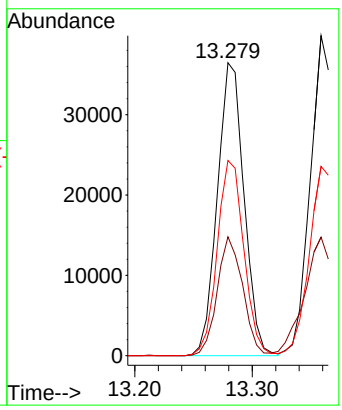




#87
1,3-Dichlorobenzene
Concen: 4.819 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 5766

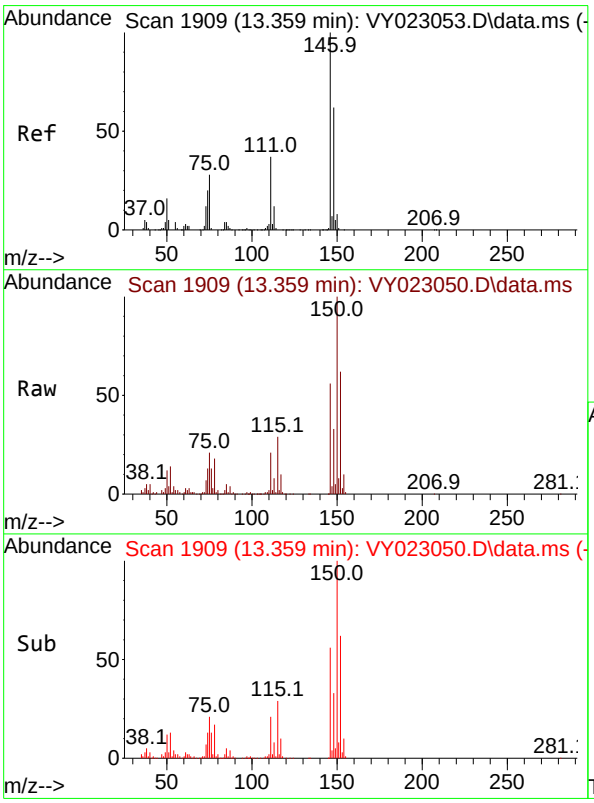
Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.7
148	66.5	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

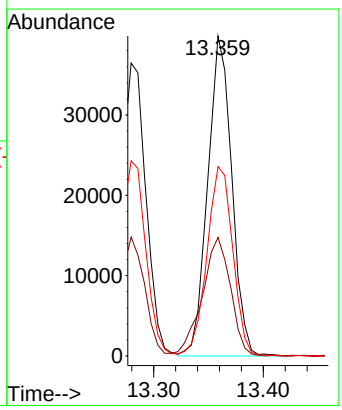
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

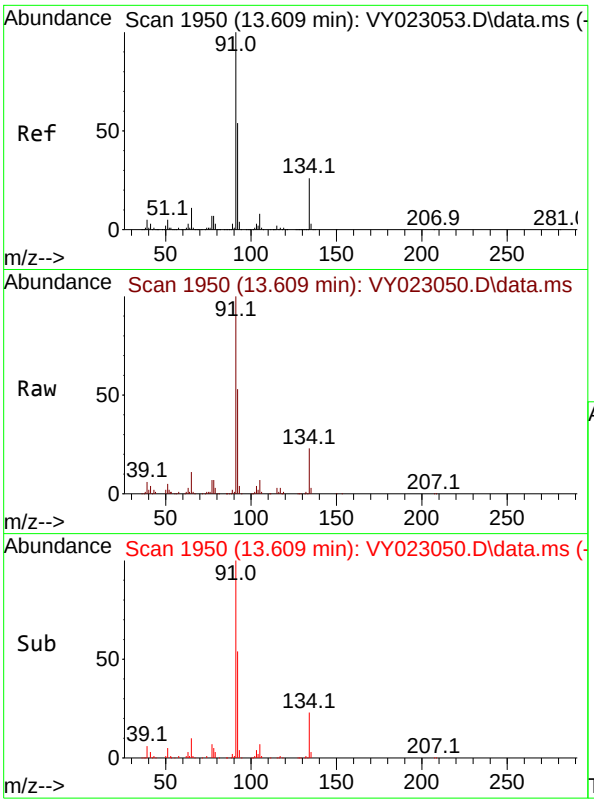


#88
1,4-Dichlorobenzene
Concen: 5.120 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

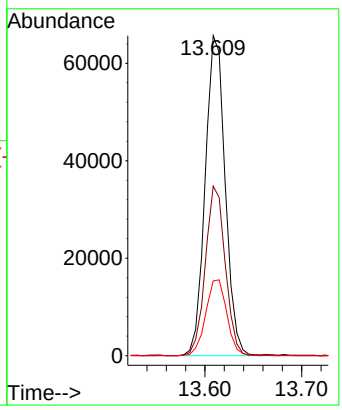




#89
n-Butylbenzene
Concen: 4.549 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 9459

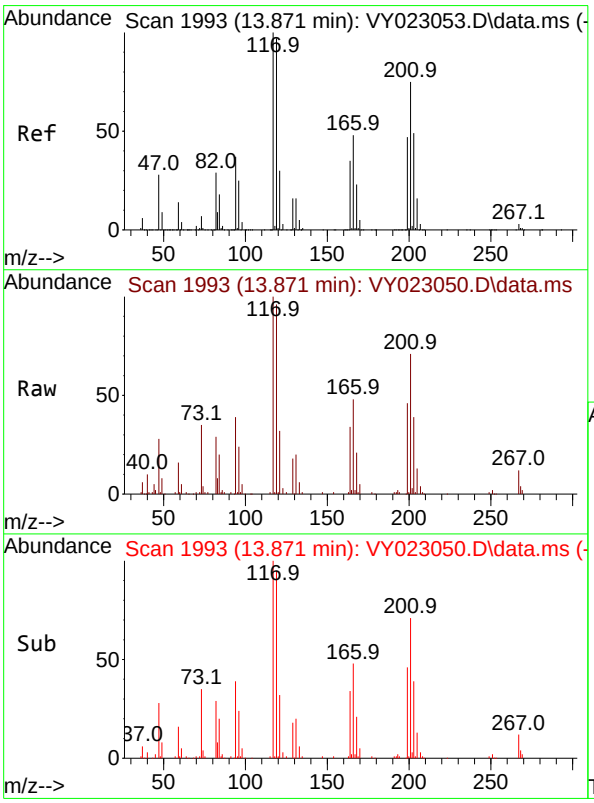
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.9	80.7
134	25.1	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

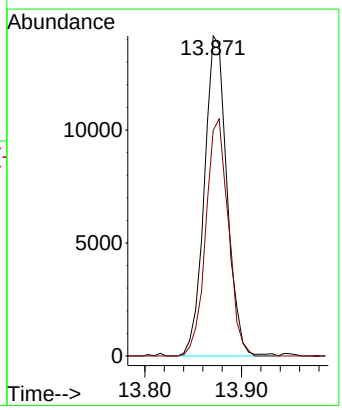
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

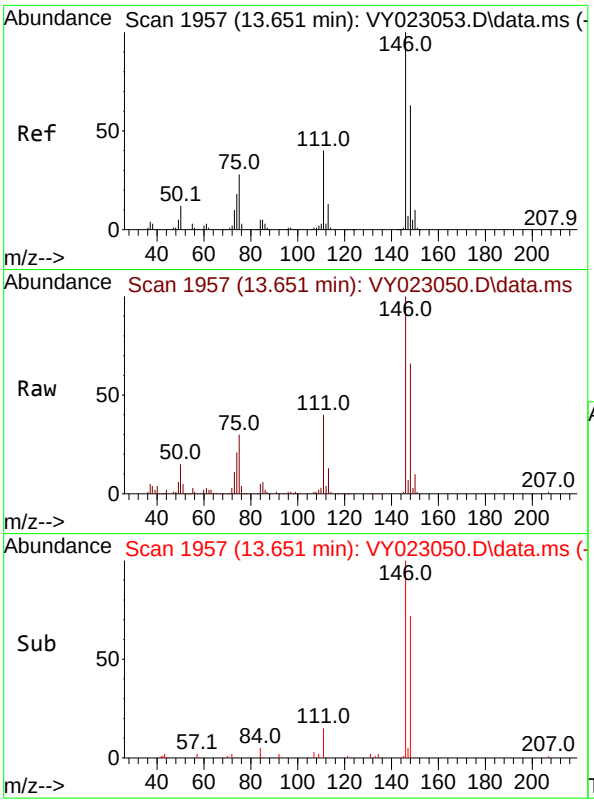


#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 22980

Ion	Ratio	Lower	Upper
117	100		
201	74.0	38.4	115.1

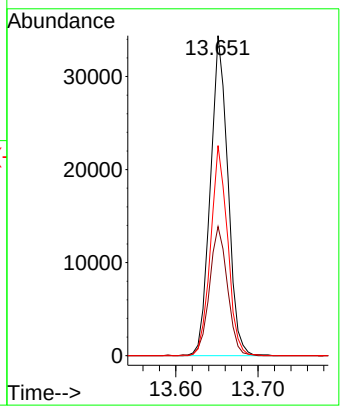




#91
1,2-Dichlorobenzene
Concen: 4.843 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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
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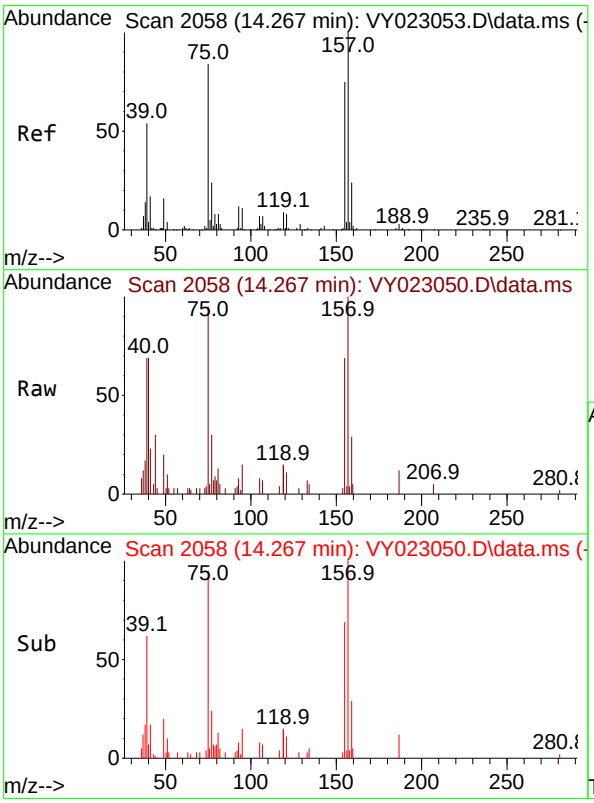
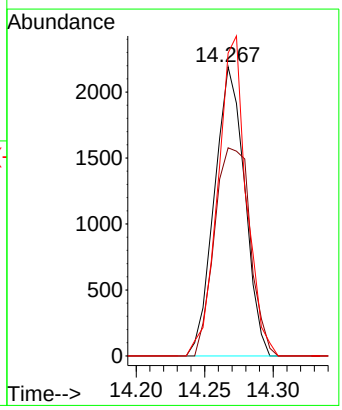
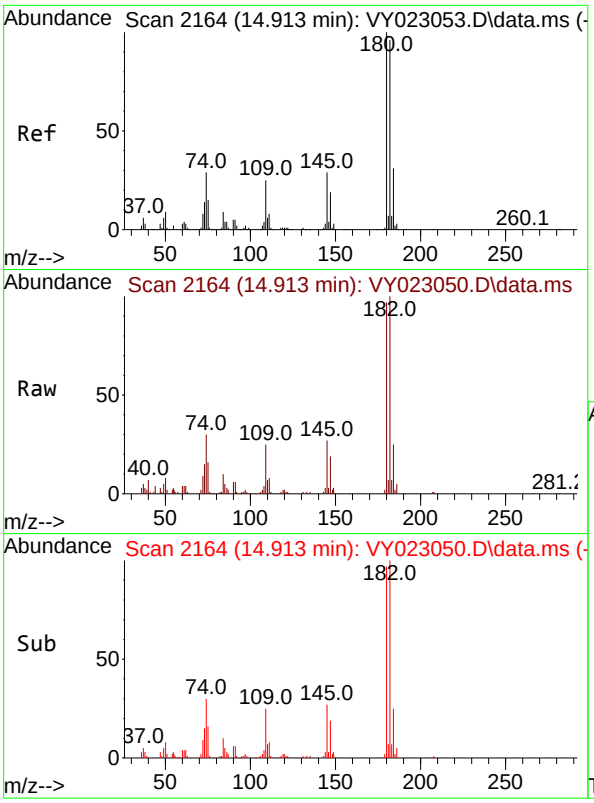


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

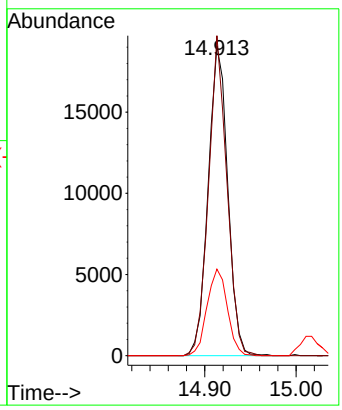




#93
1,2,4-Trichlorobenzene
Concen: 4.576 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:180 Resp: 2839

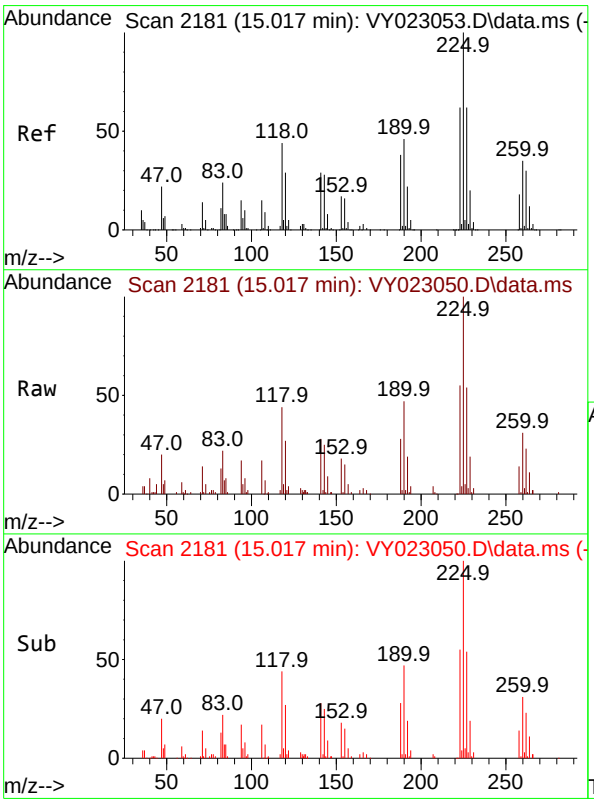
Ion	Ratio	Lower	Upper
180	100		
182	96.6	46.8	140.4
145	28.9	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

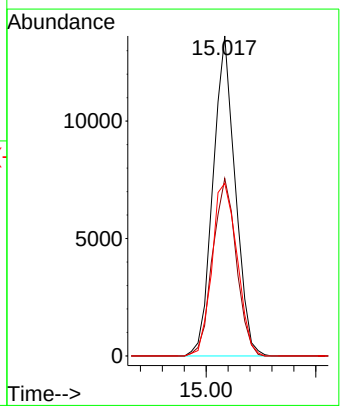
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

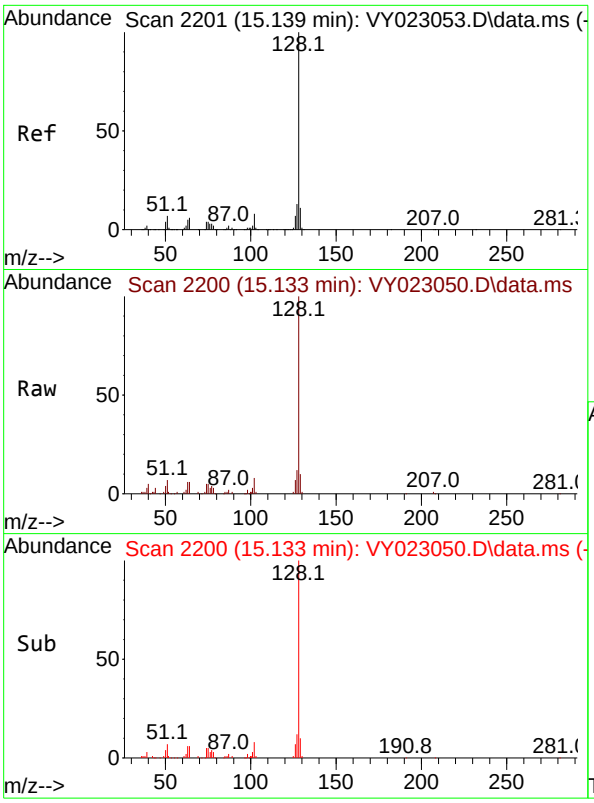


#94
Hexachlorobutadiene
Concen: 5.263 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

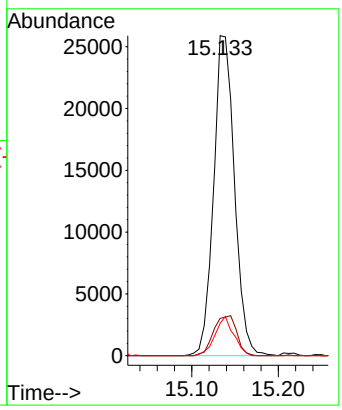




#95
Naphthalene
Concen: 4.100 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:128 Resp: 4339

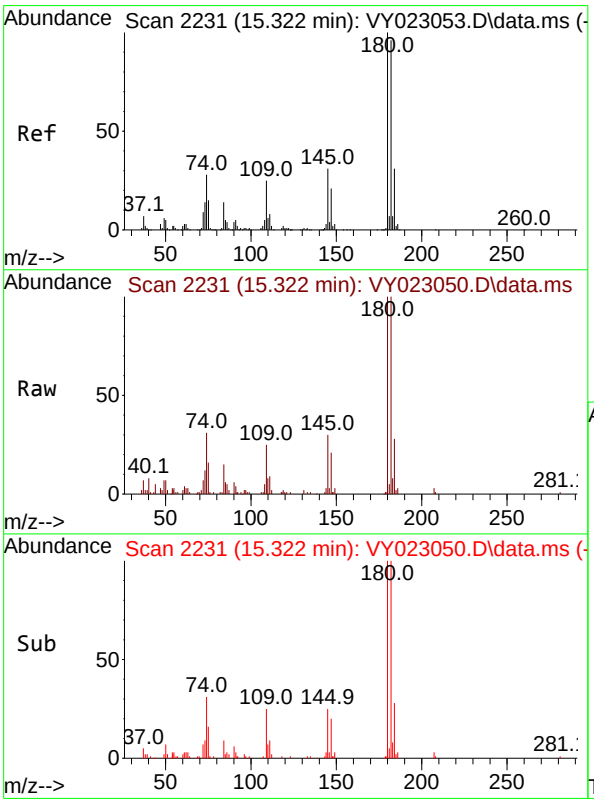
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.4	15.6
129	10.9	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

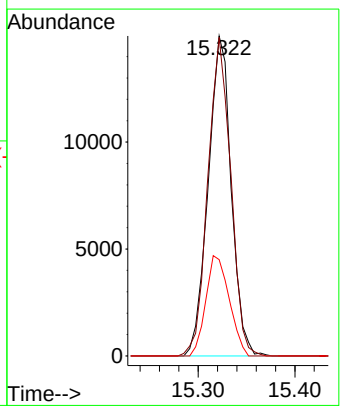
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#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



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

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

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	7.213	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

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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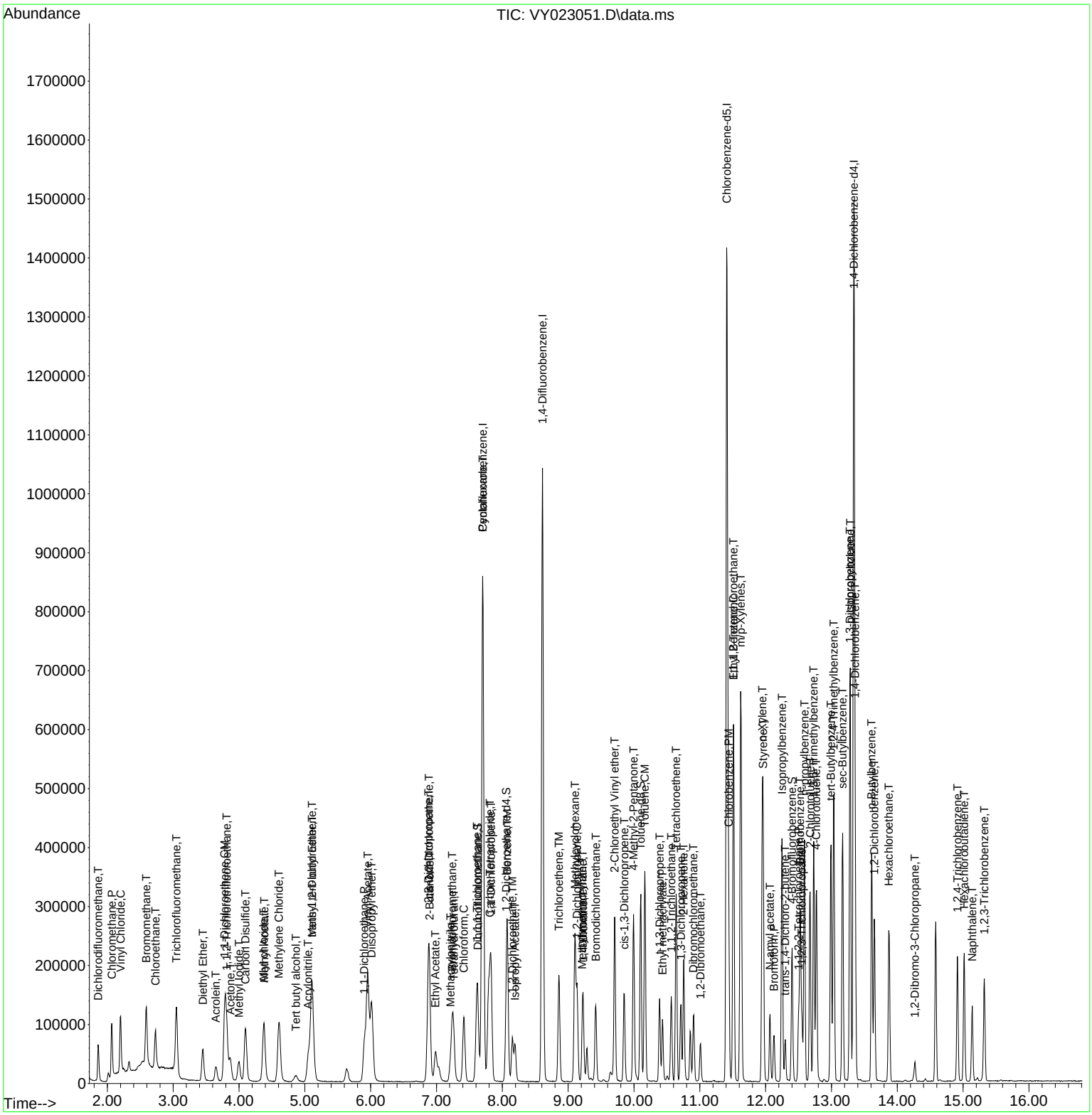
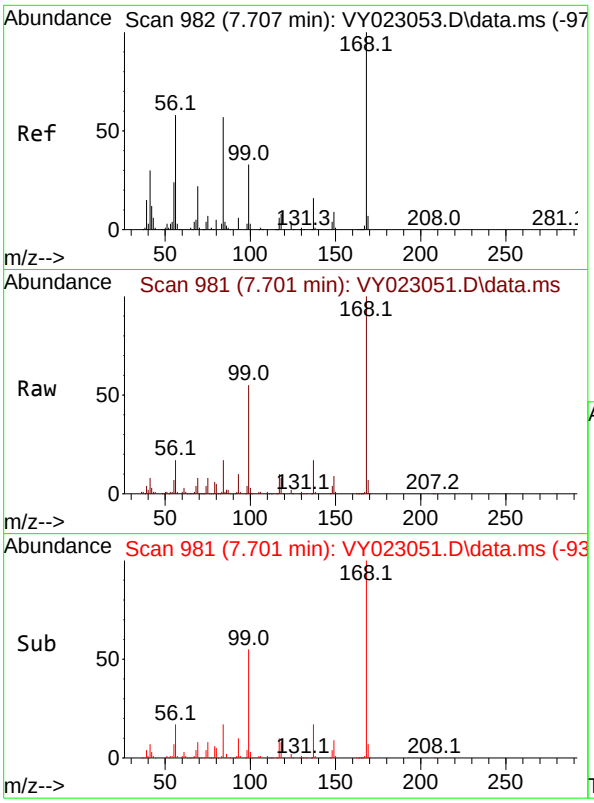
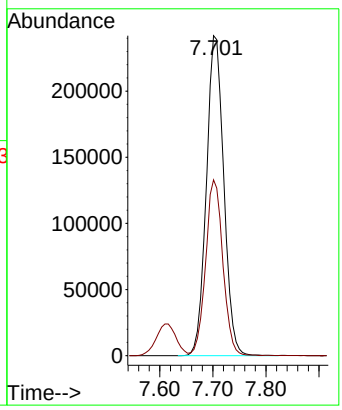




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:168 Resp: 55152

Ion	Ratio	Lower	Upper
168	100		
99	54.9	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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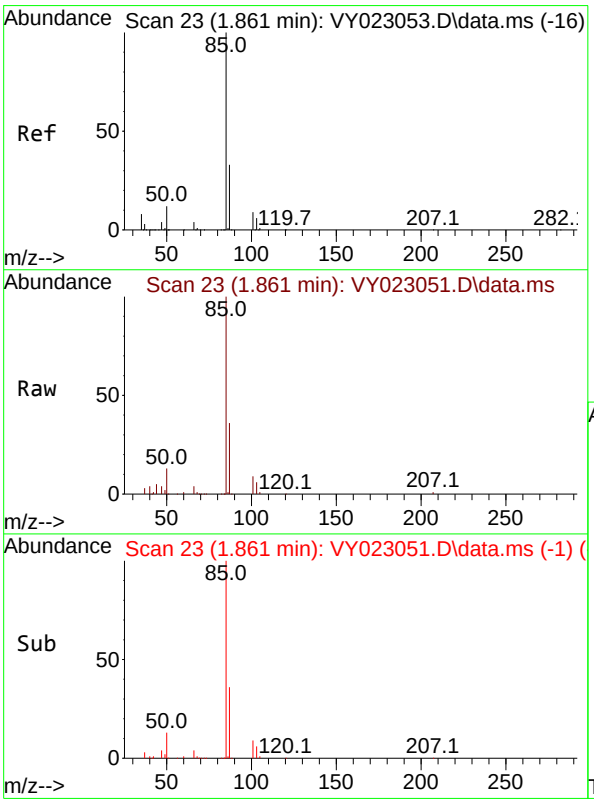
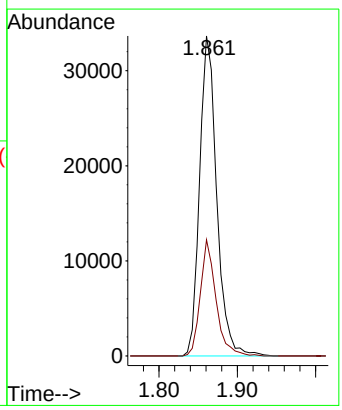
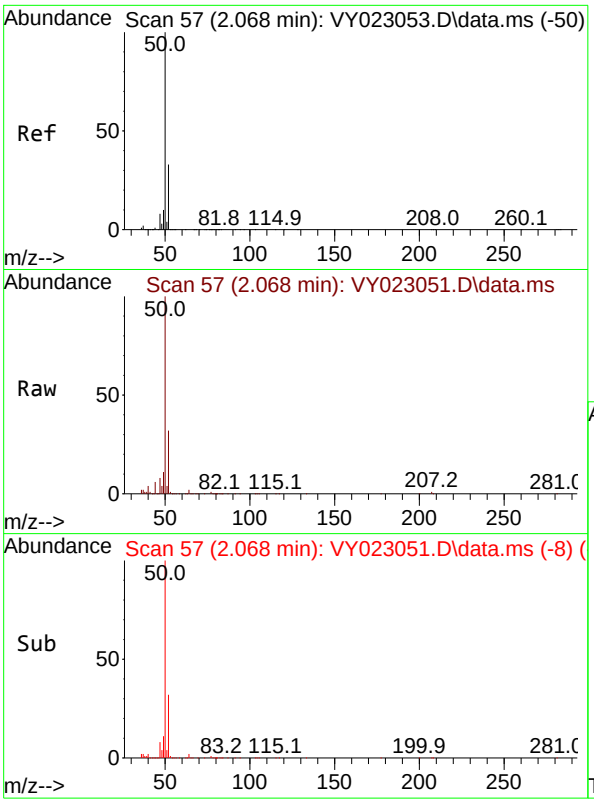


#2
Dichlorodifluoromethane
Concen: 11.334 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 85 Resp: 51022

Ion	Ratio	Lower	Upper
85	100		
87	36.3	16.6	49.8

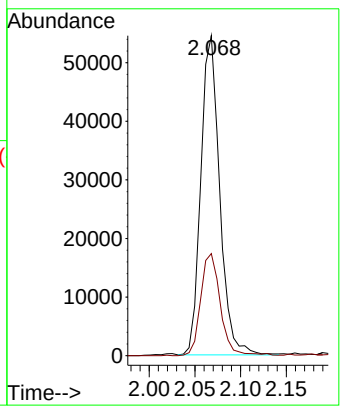




#3
Chloromethane
Concen: 10.695 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 50 Resp: 7798

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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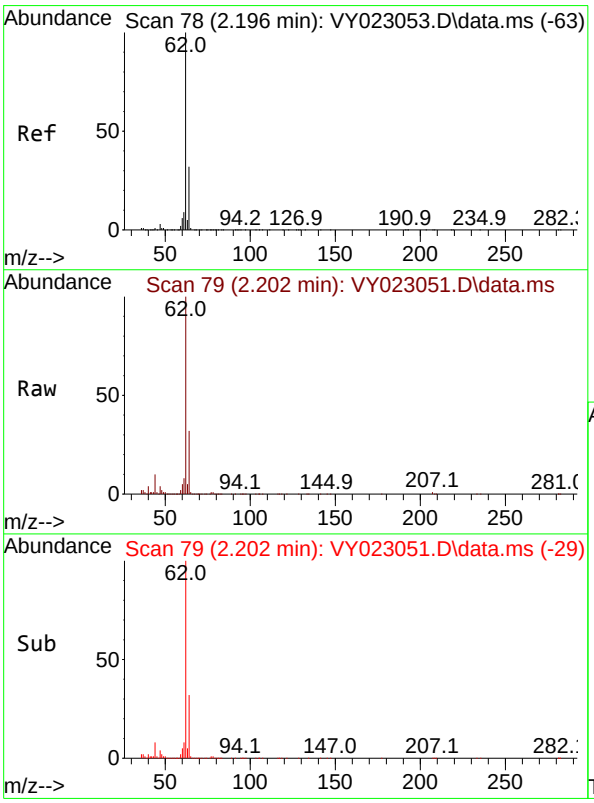
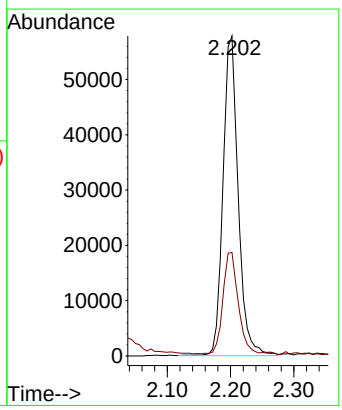
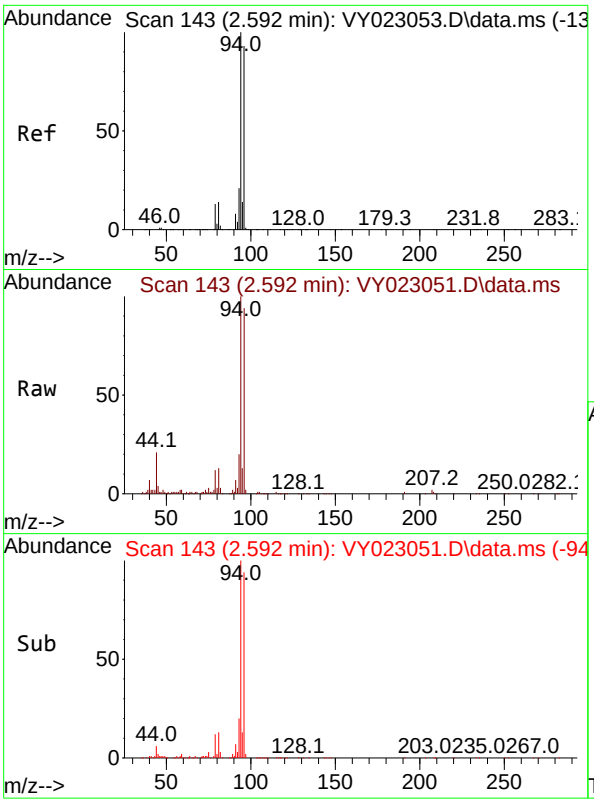


#4
Vinyl Chloride
Concen: 10.649 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 APPROVED

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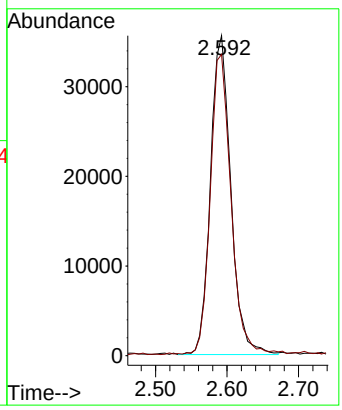
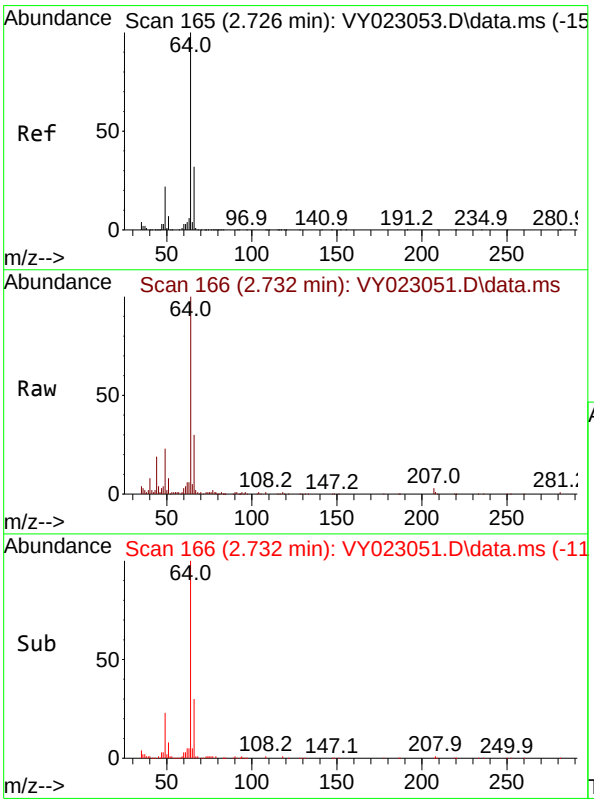
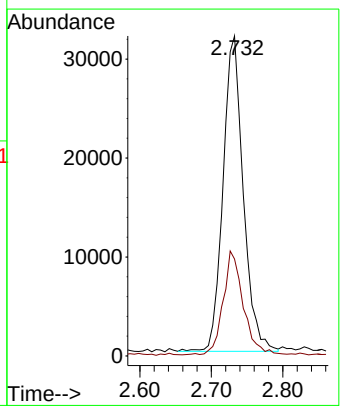


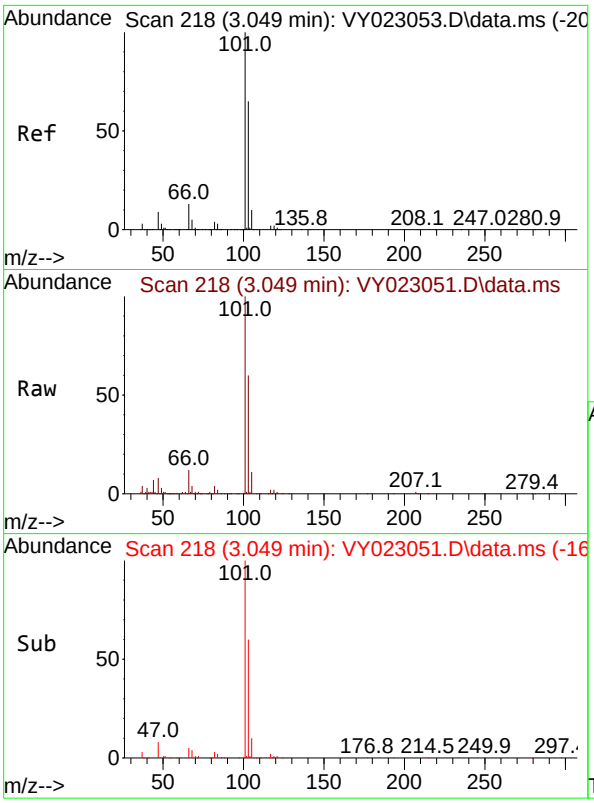


#6
Chloroethane
Concen: 10.432 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 64 Resp: 62514

Ion	Ratio	Lower	Upper
64	100		
66	30.4	25.8	38.6

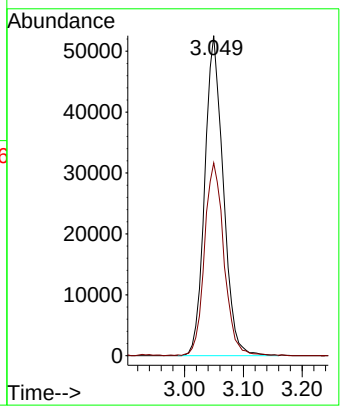




#7
Trichlorofluoromethane
Concen: 10.507 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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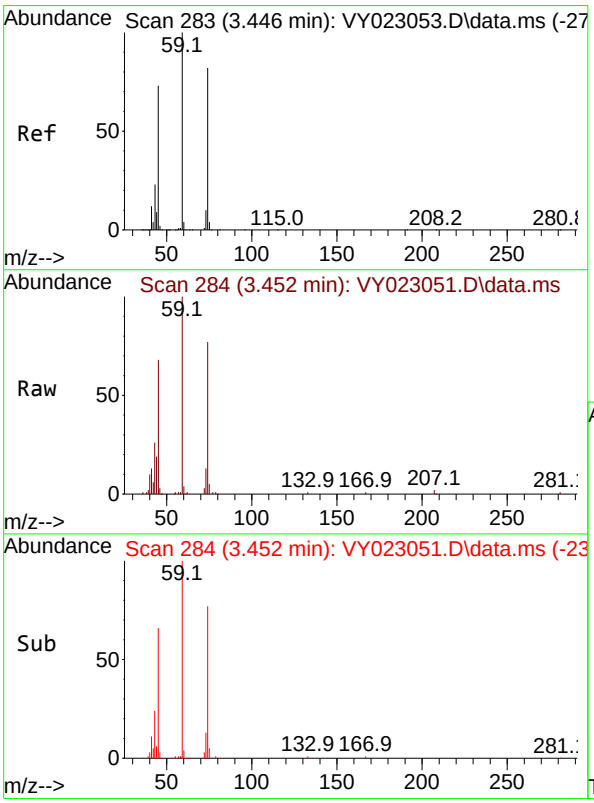
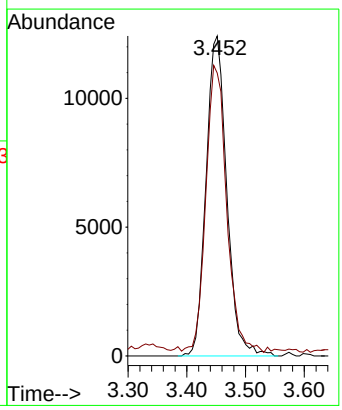
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

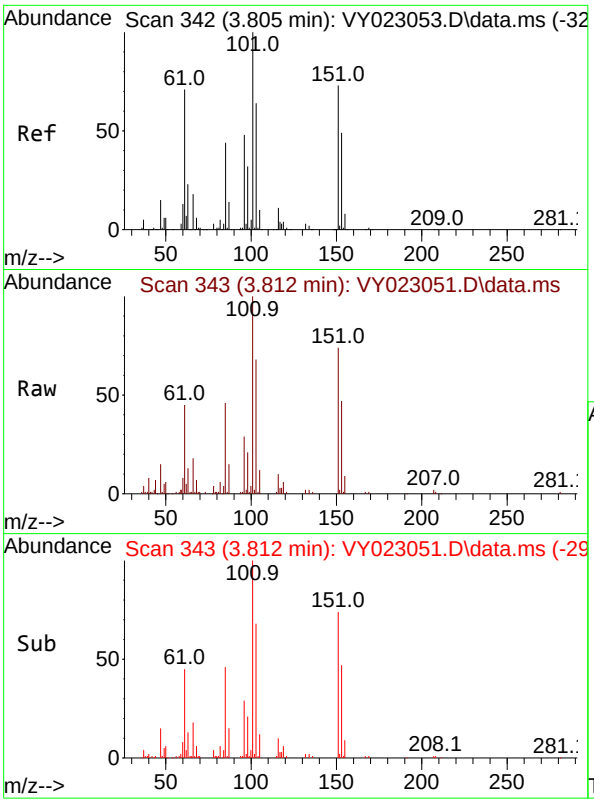


#8
Diethyl Ether
Concen: 10.481 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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
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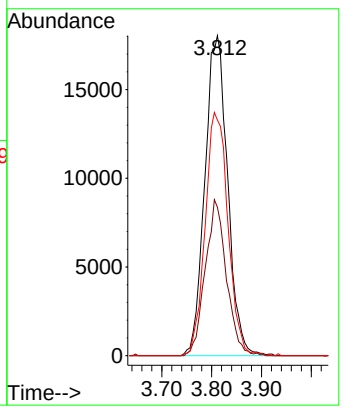
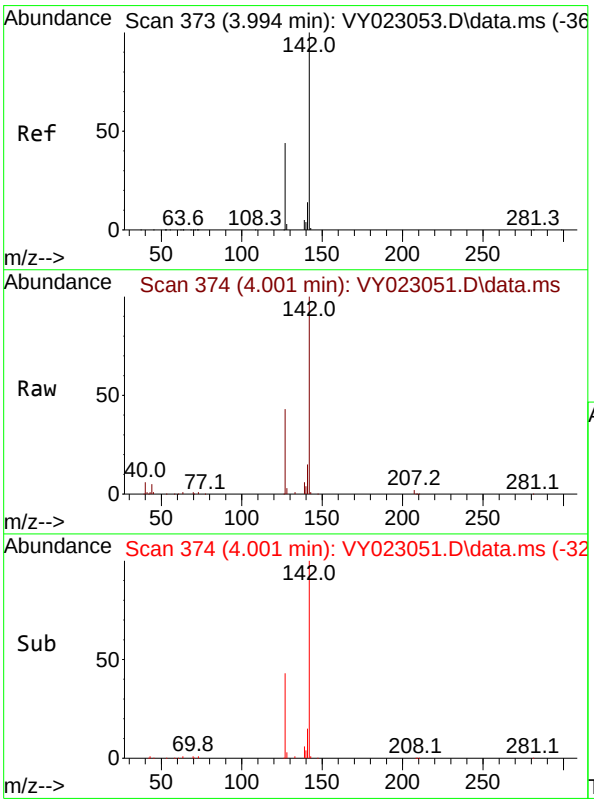
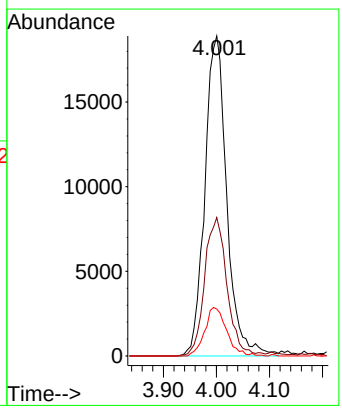


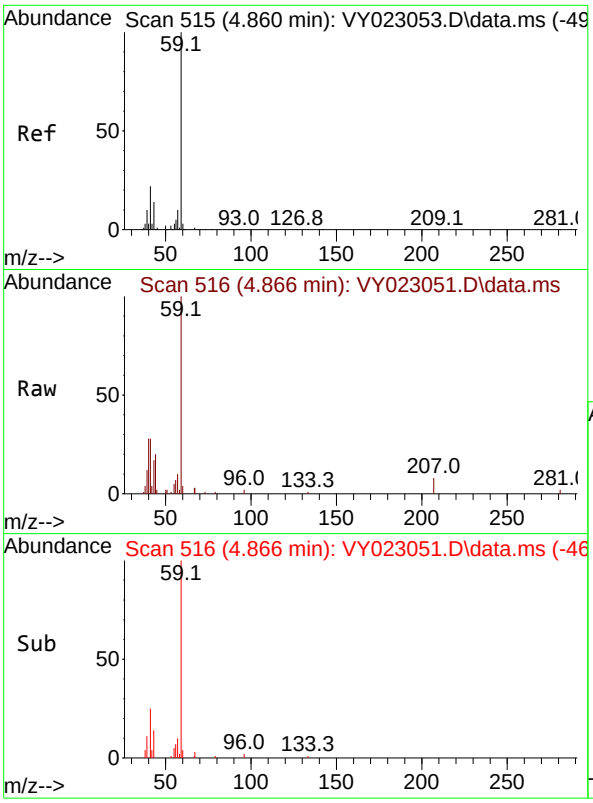


#10
Methyl Iodide
Concen: 9.287 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

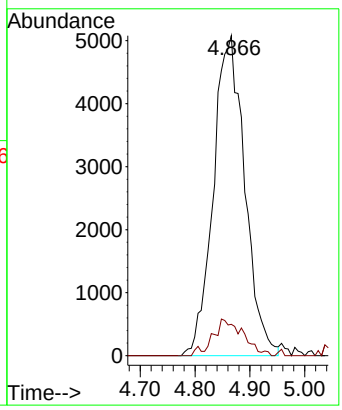




#11
Tert butyl alcohol
Concen: 56.119 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
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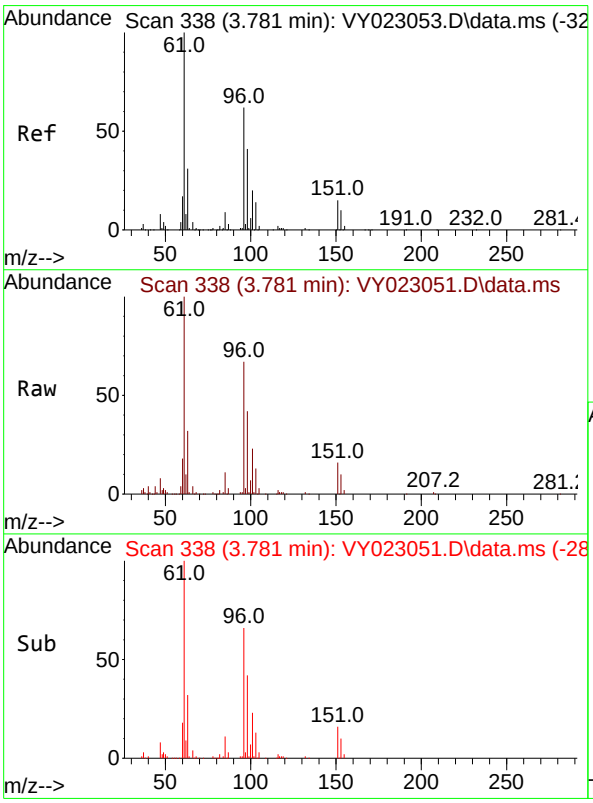
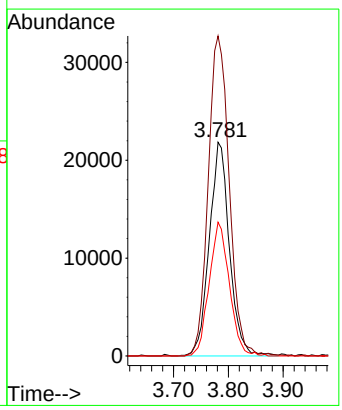
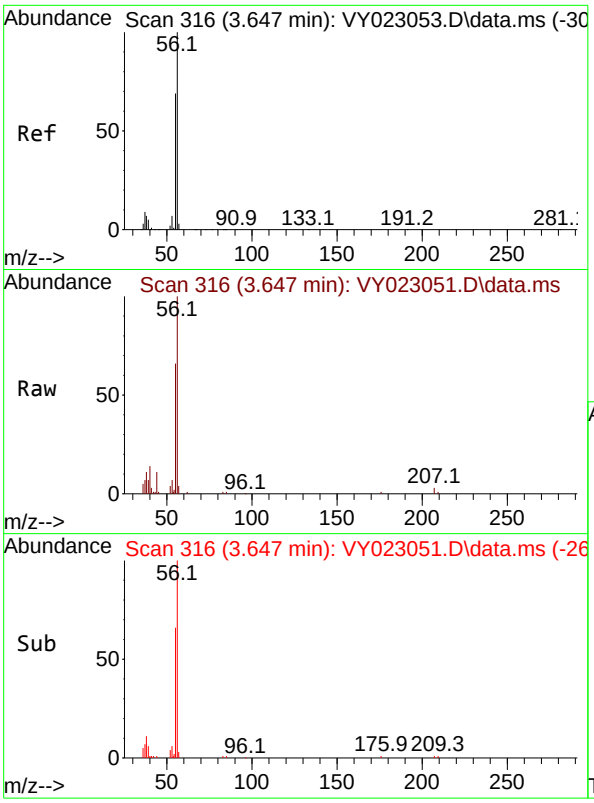


#12
1,1-Dichloroethene
Concen: 10.475 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

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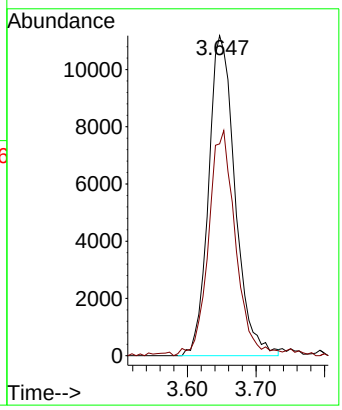
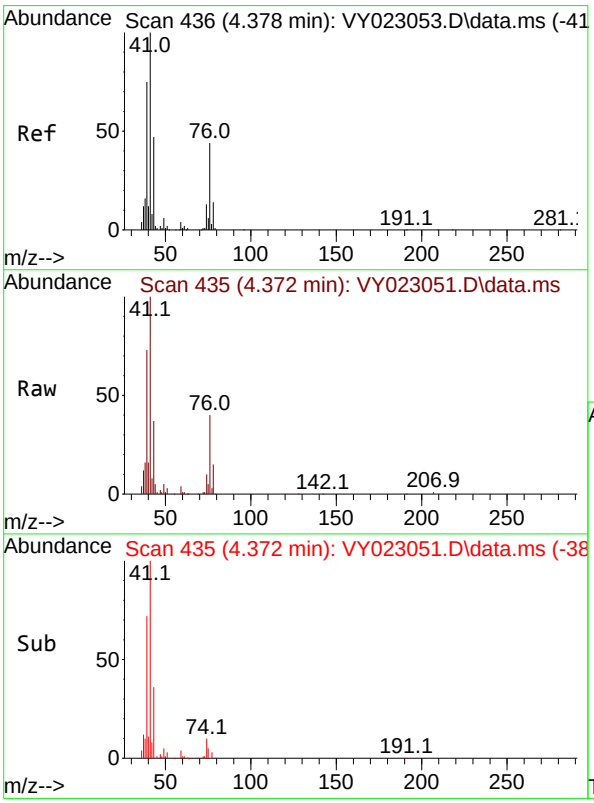
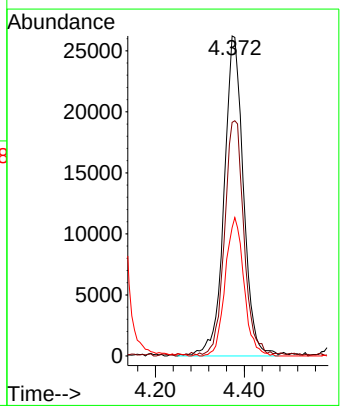


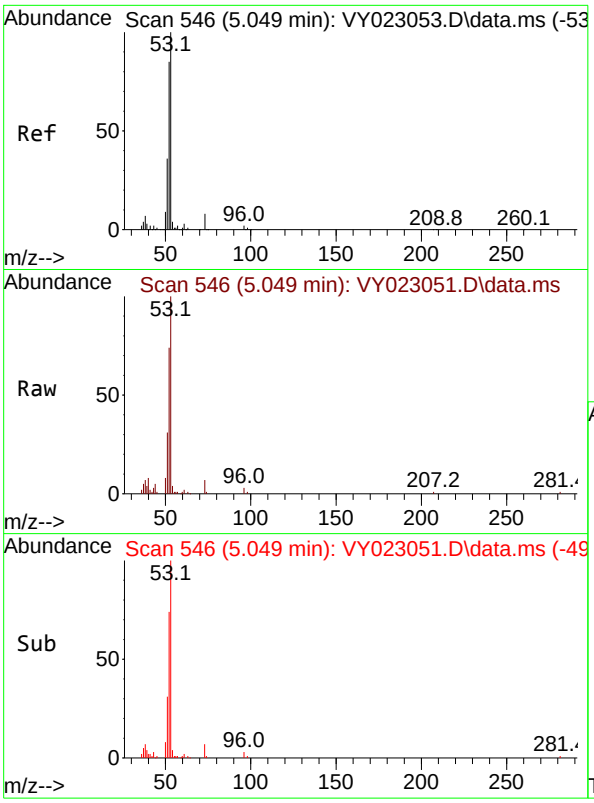


#14
Allyl chloride
Concen: 10.121 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

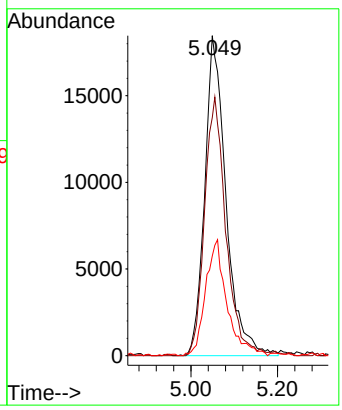




#15
Acrylonitrile
Concen: 53.349 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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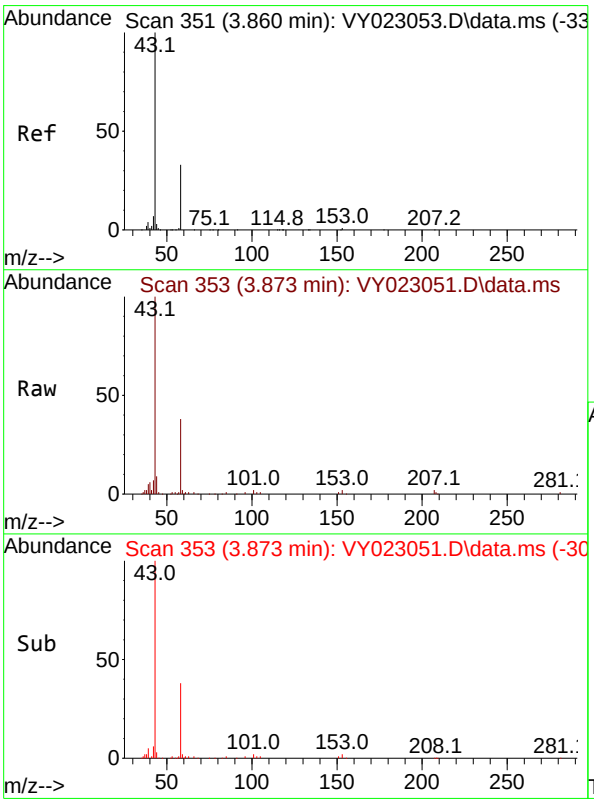
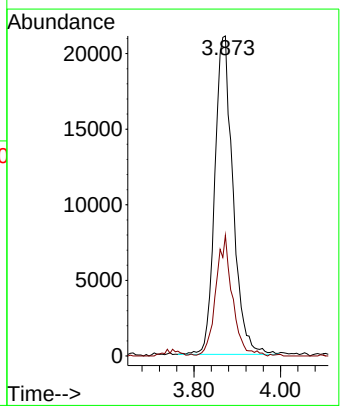
Supervised By :Semsettin Yesilyurt 08/14/2025

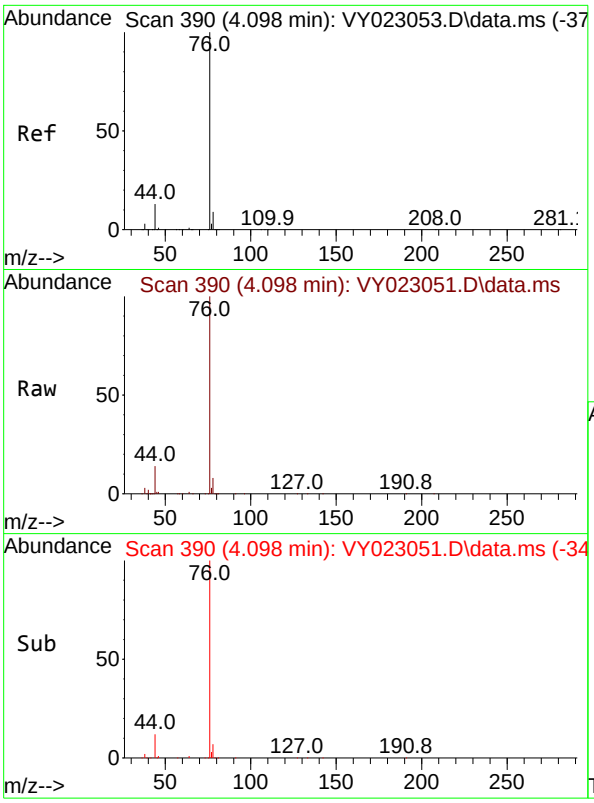


#16
Acetone
Concen: 53.821 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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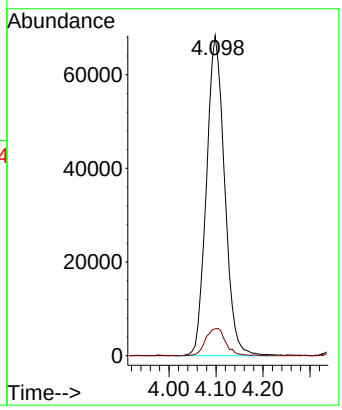
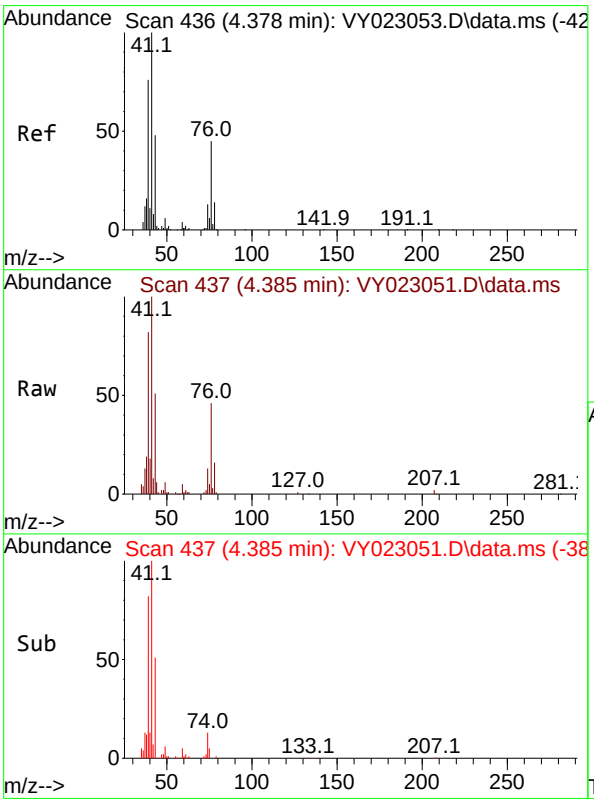
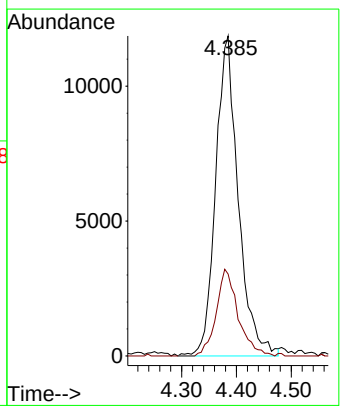


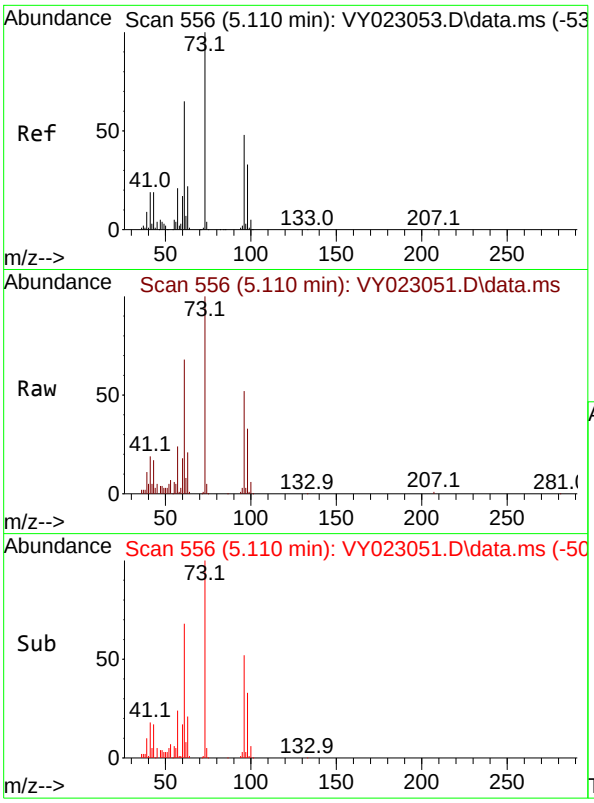


#18
Methyl Acetate
Concen: 10.032 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 33996

Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.2	31.8

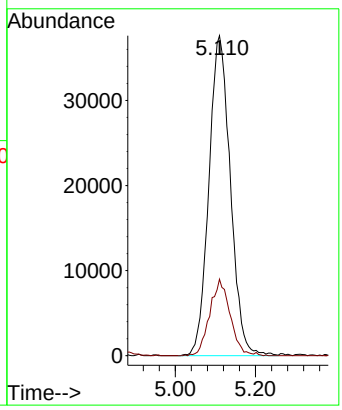




#19
Methyl tert-butyl Ether
Concen: 10.153 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 73 Resp: 13982

Ion	Ratio	Lower	Upper
73	100		
57	23.9	17.1	25.7



Instrument :
MSVOA_Y
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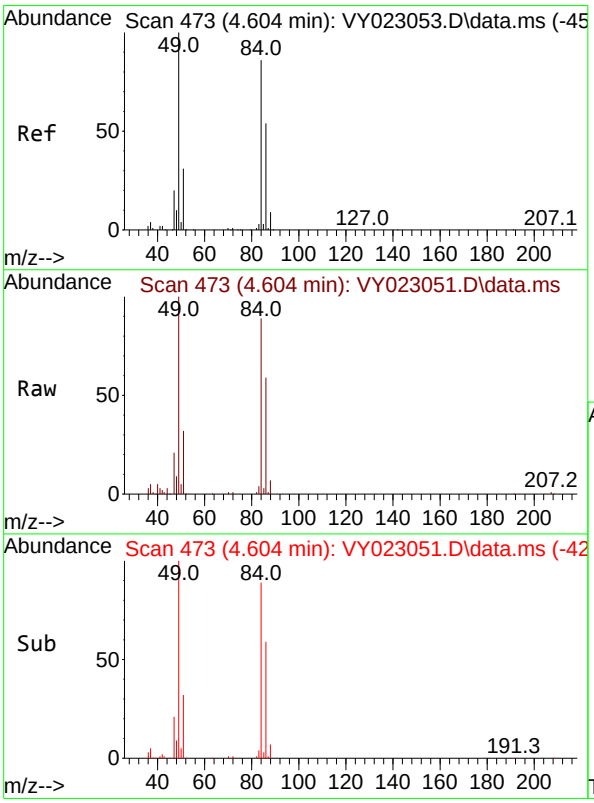
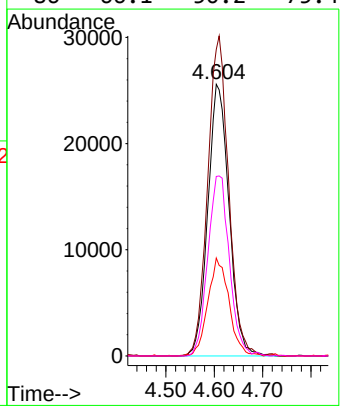
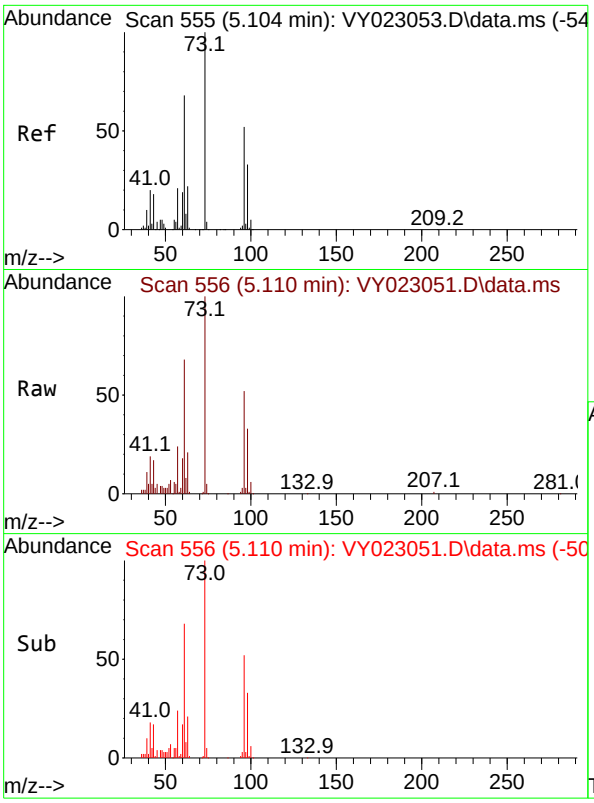


#20
Methylene Chloride
Concen: 11.095 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

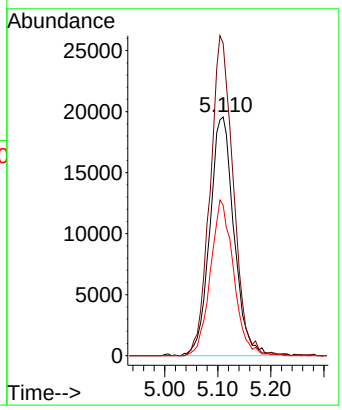




#21
trans-1,2-Dichloroethene
Concen: 10.352 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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ClientSampleId :
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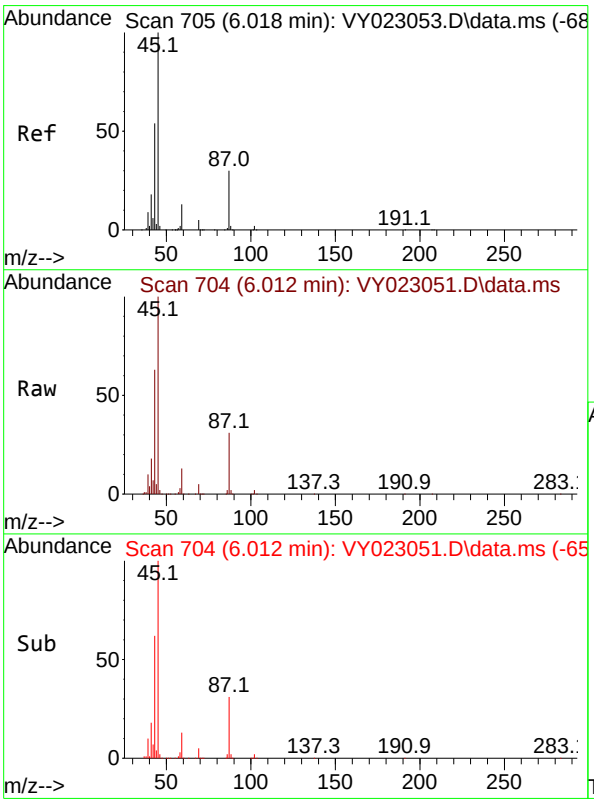
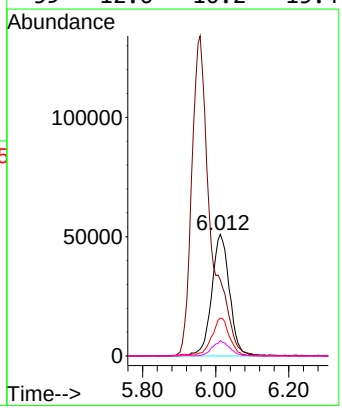
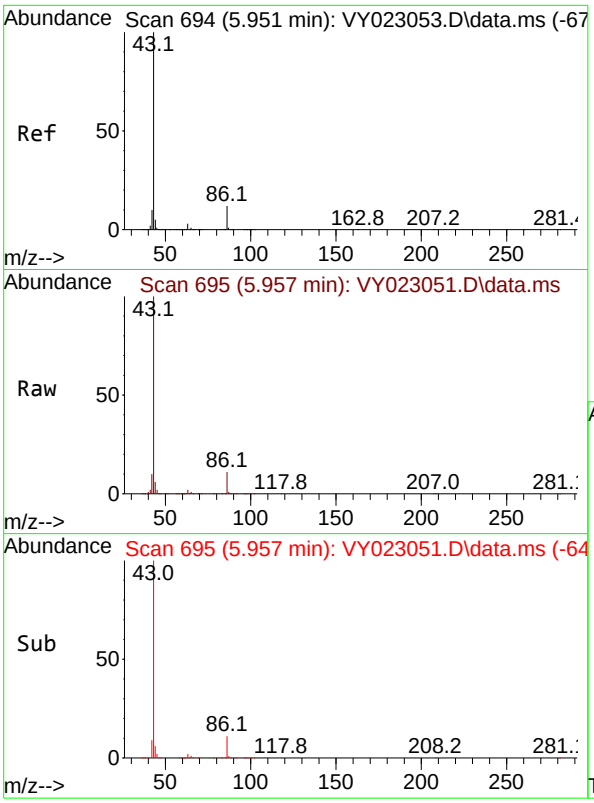


#22
Diisopropyl ether
Concen: 10.157 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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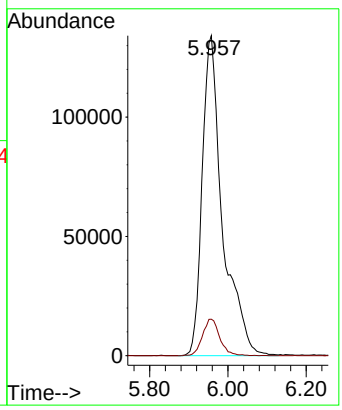
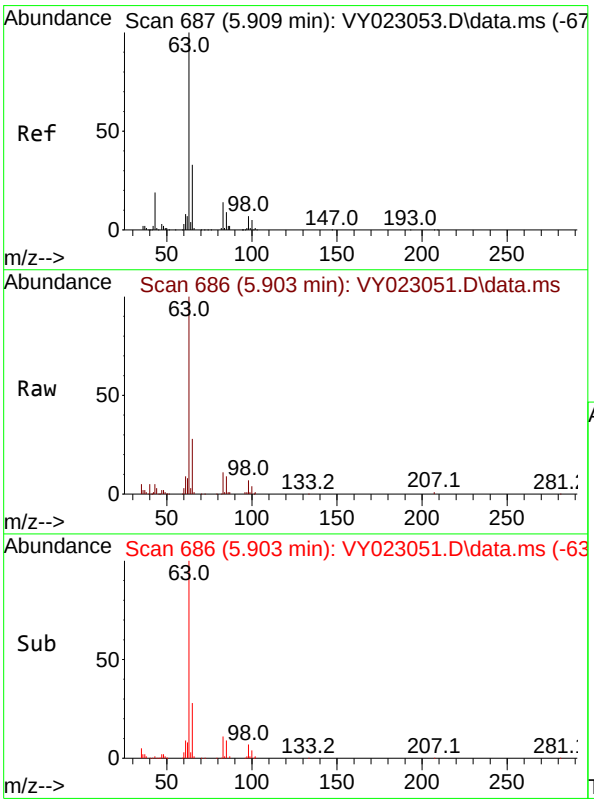
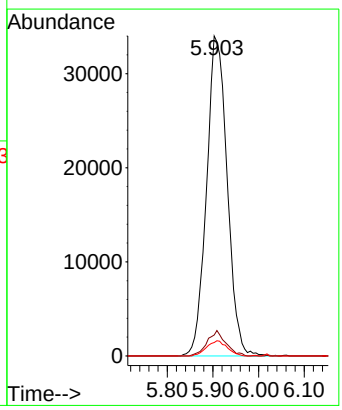


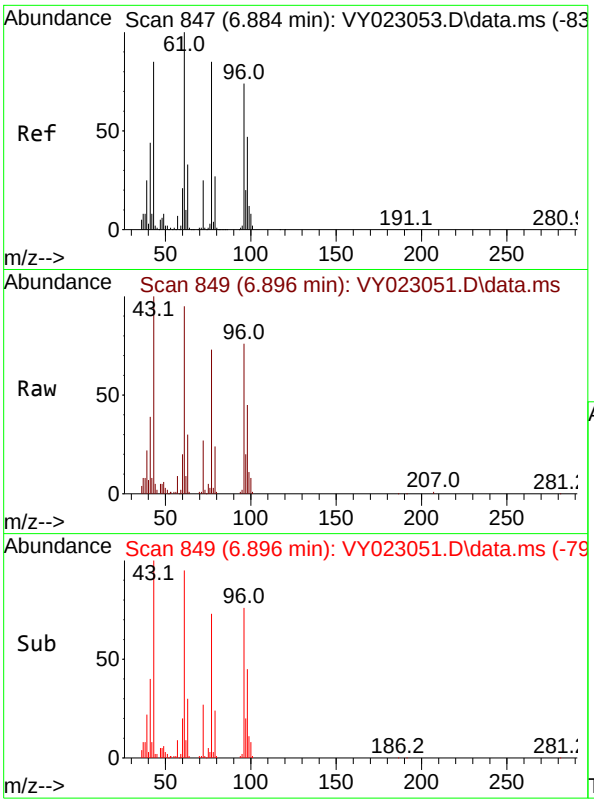


#24
1,1-Dichloroethane
Concen: 10.282 ug/l
RT: 5.903 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

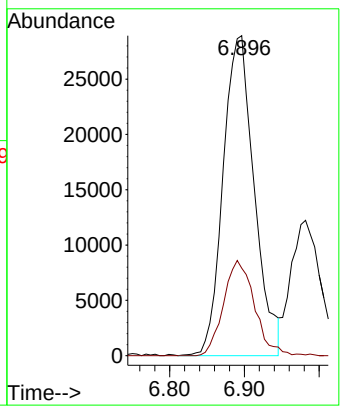




#25
2-Butanone
Concen: 54.187 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 8392

Ion	Ratio	Lower	Upper
43	100		
72	27.3	23.5	35.3



Instrument :
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ClientSampleId :
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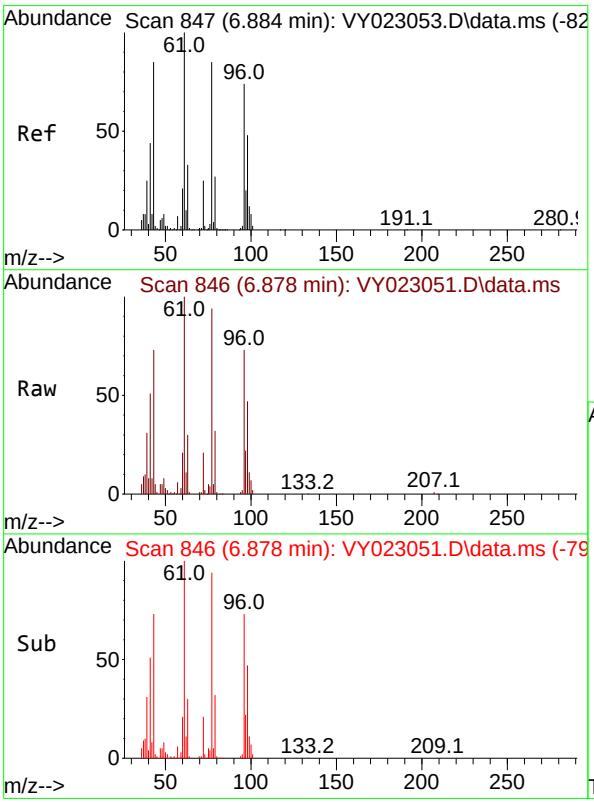
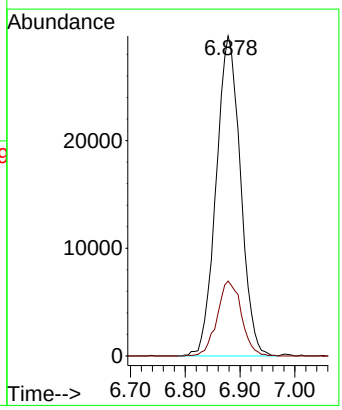
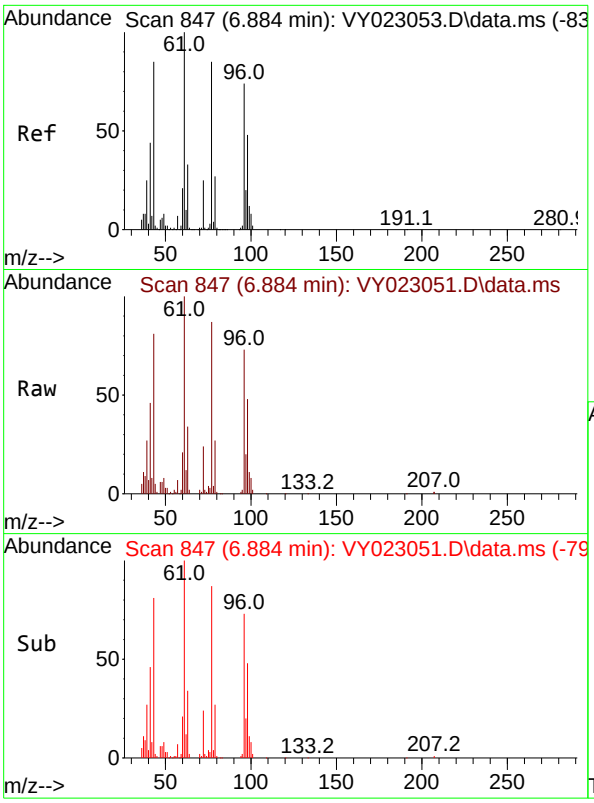


#26
2,2-Dichloropropane
Concen: 10.215 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 77 Resp: 91579

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8

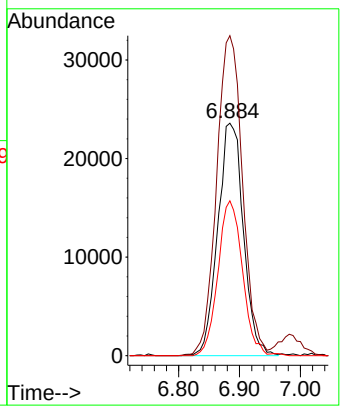




#27
cis-1,2-Dichloroethene
Concen: 9.970 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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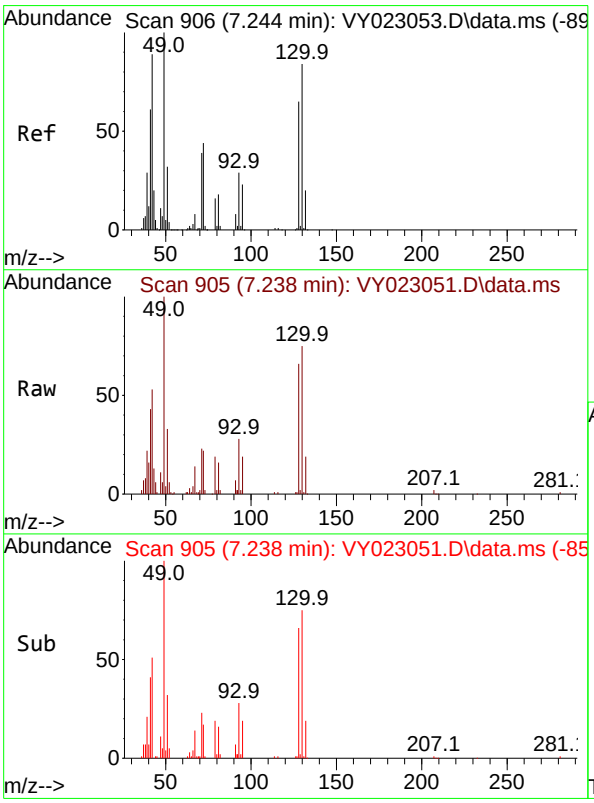
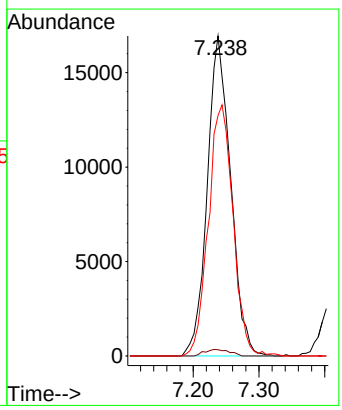
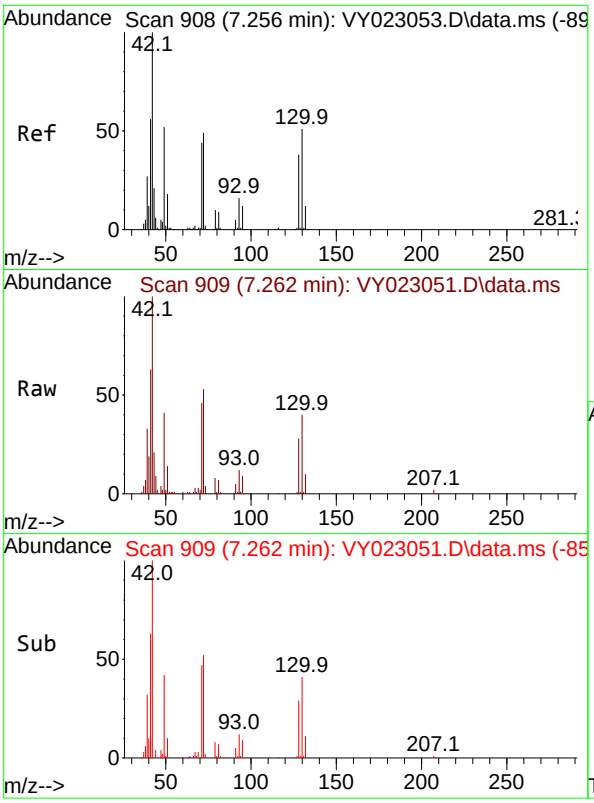


#28
Bromochloromethane
Concen: 10.146 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

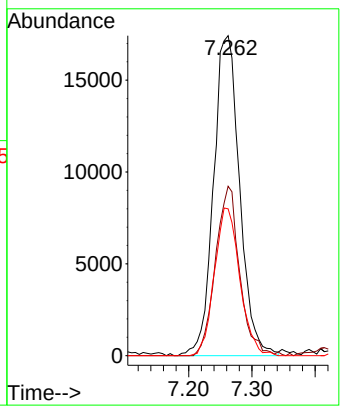




#29
Tetrahydrofuran
Concen: 52.005 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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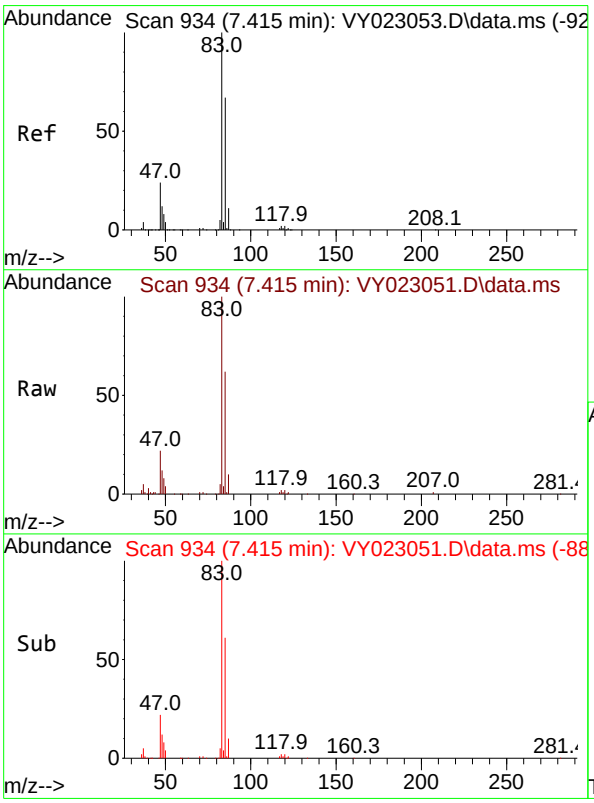
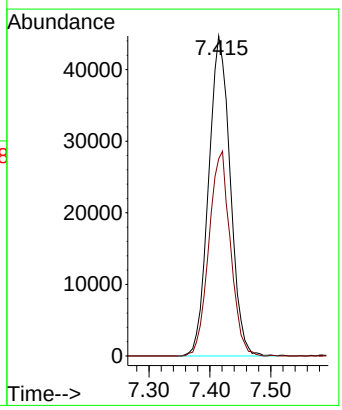
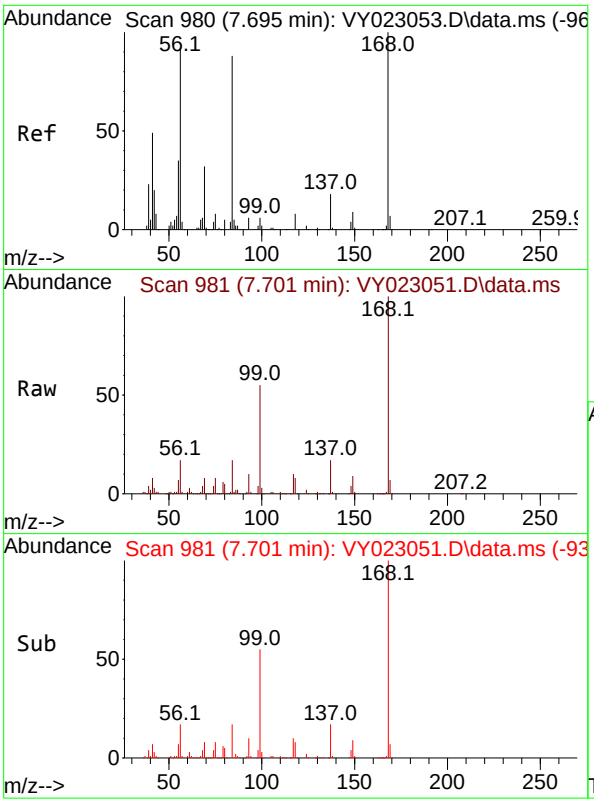


#30
Chloroform
Concen: 10.260 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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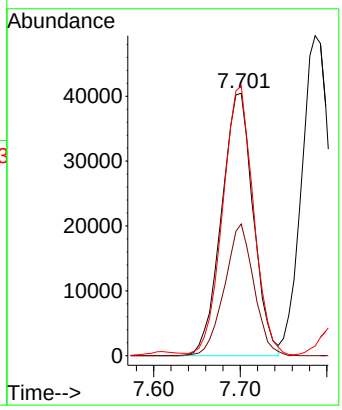
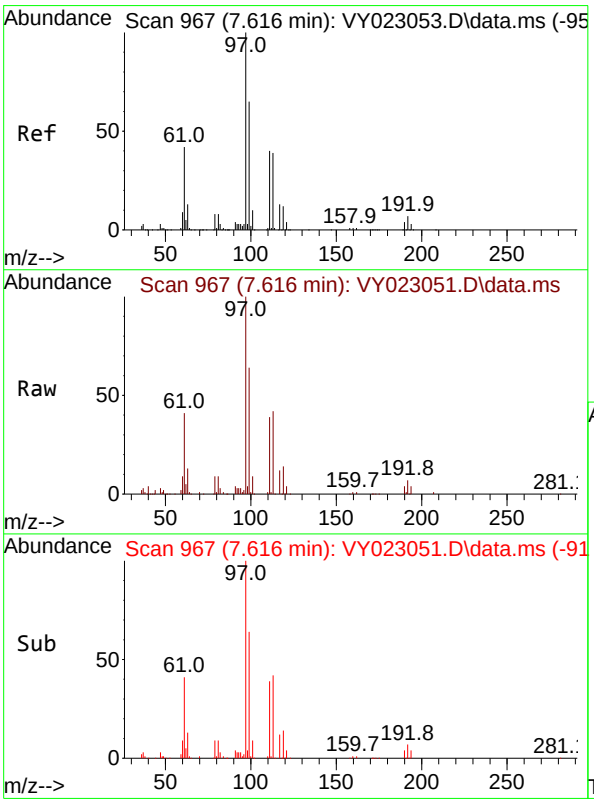
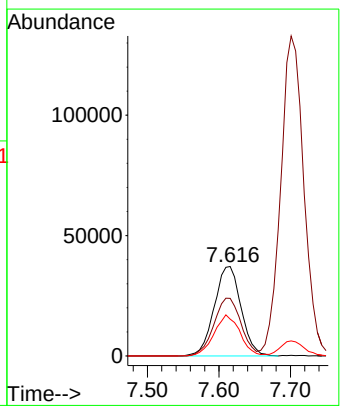


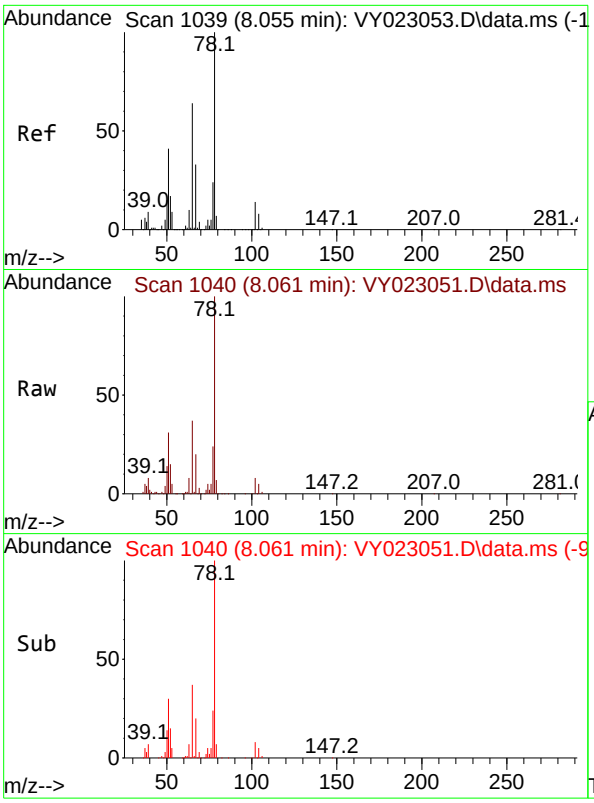


#32
1,1,1-Trichloroethane
Concen: 10.170 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

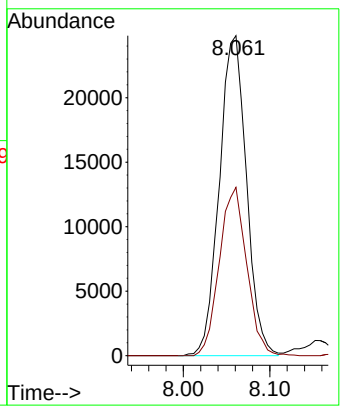




#33
1,2-Dichloroethane-d4
Concen: 10.274 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 65 Resp: 5400

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
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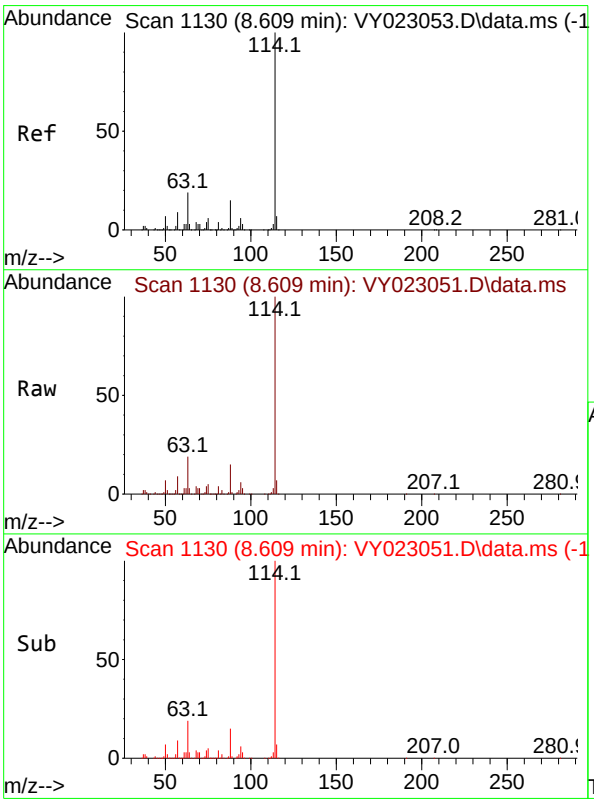
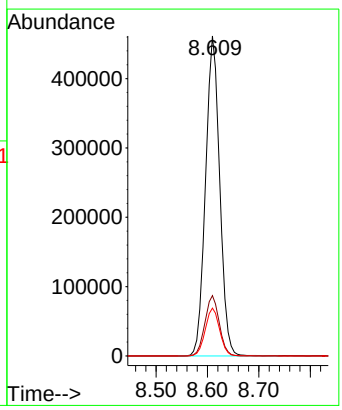
Supervised By :Semsettin Yesilyurt 08/14/2025

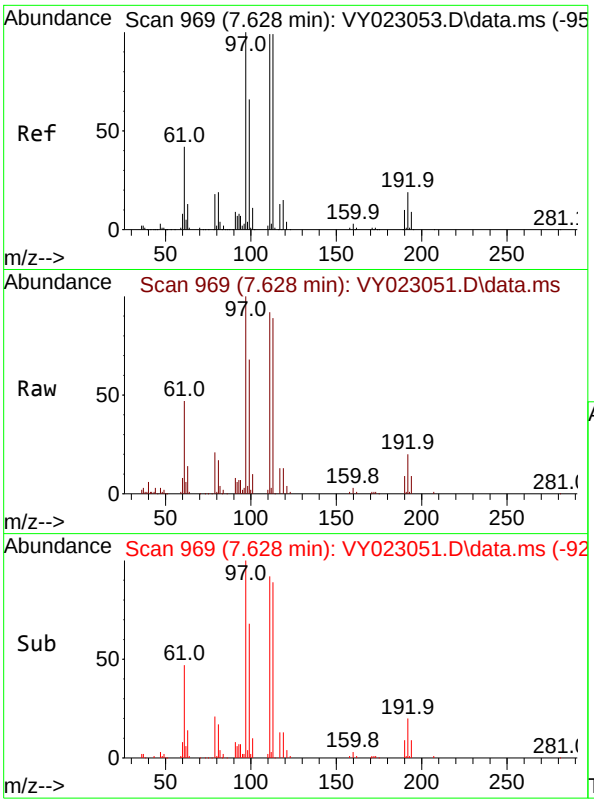


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

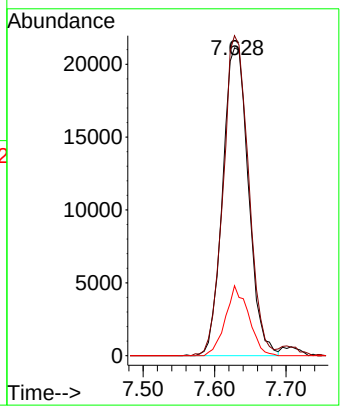




#35
Dibromofluoromethane
Concen: 10.009 ug/l
RT: 7.628 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

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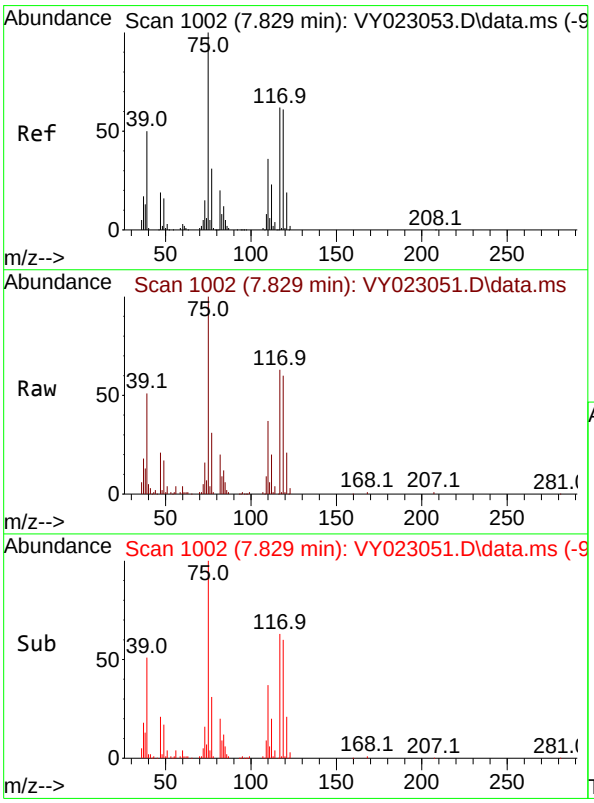
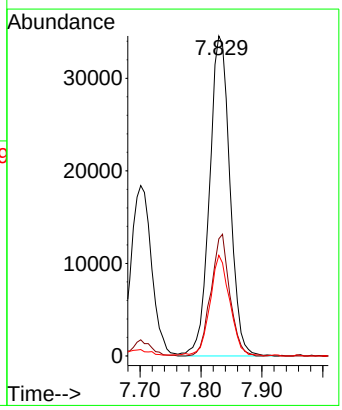
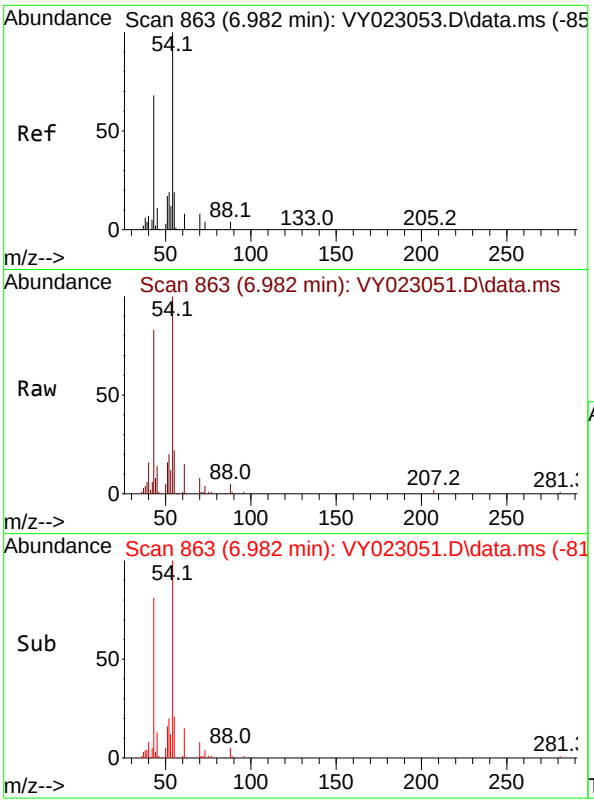


#36
1,1-Dichloropropene
Concen: 10.243 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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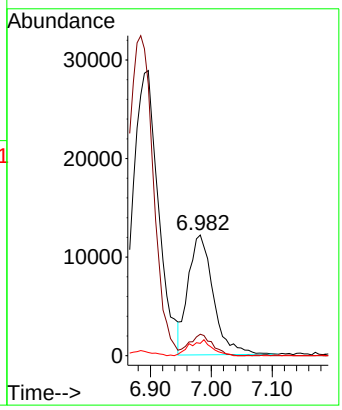
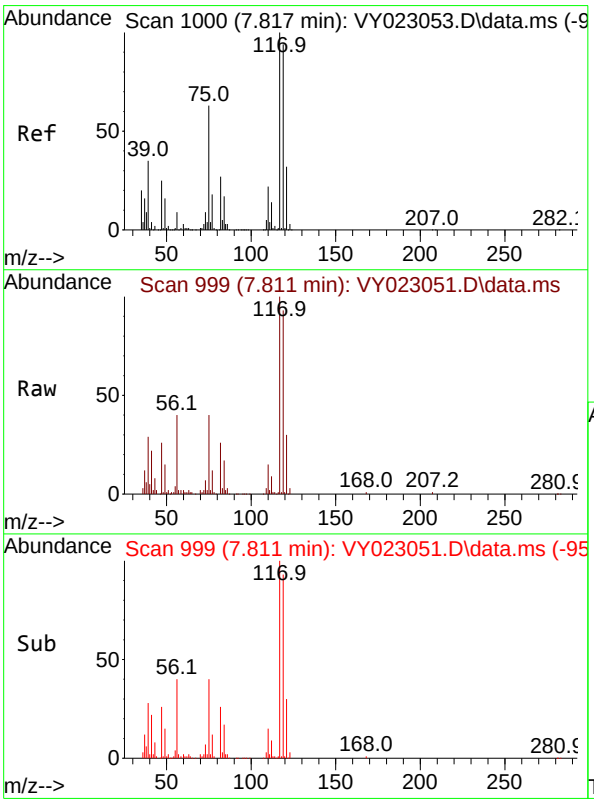
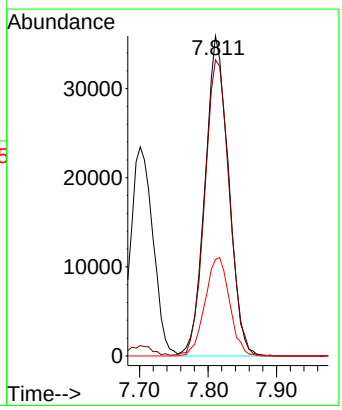


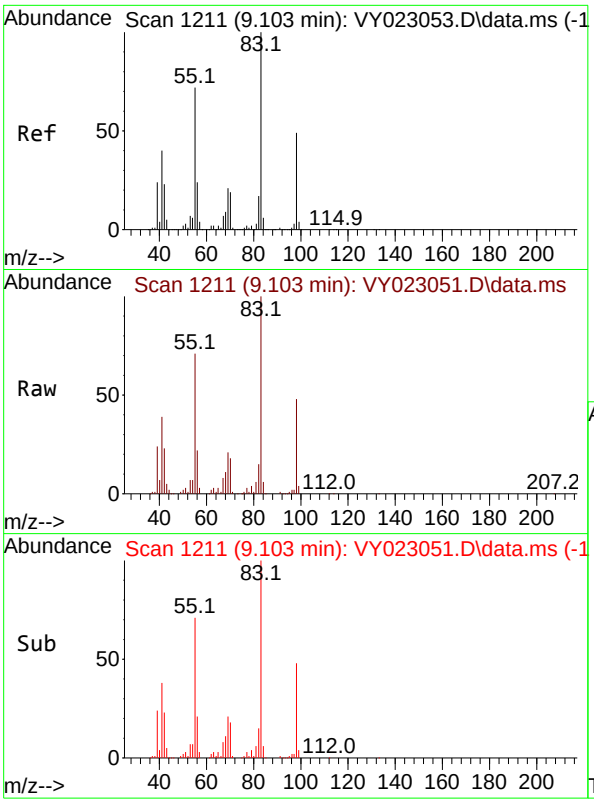


#38
Carbon Tetrachloride
Concen: 10.070 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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ClientSampleId :
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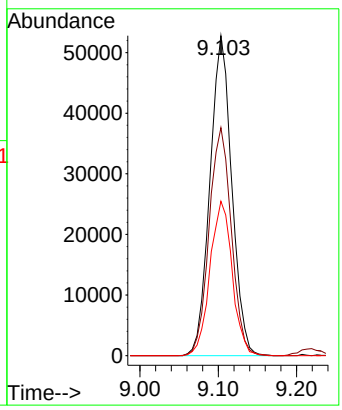
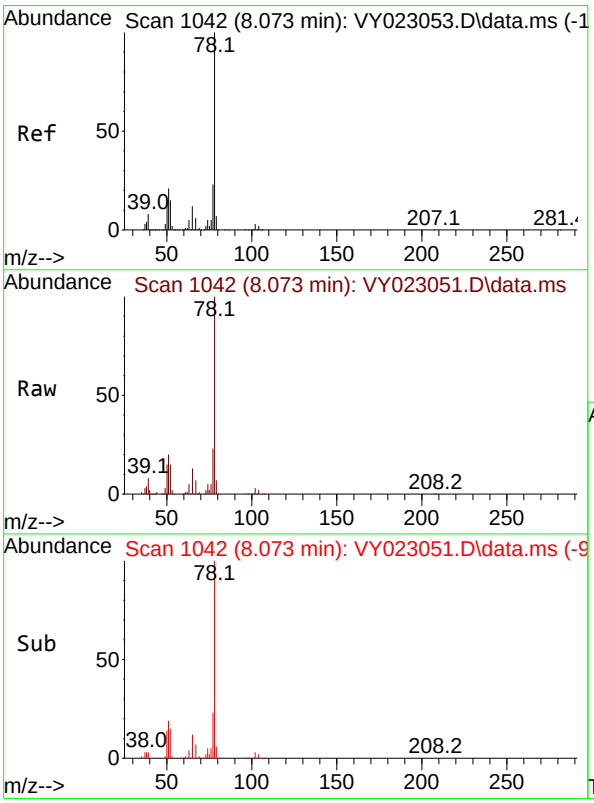
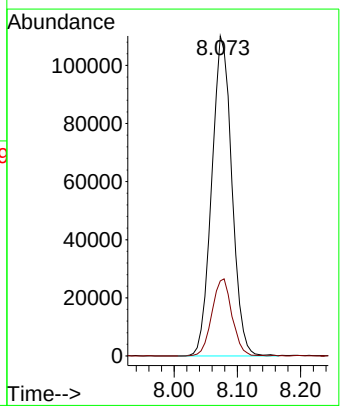


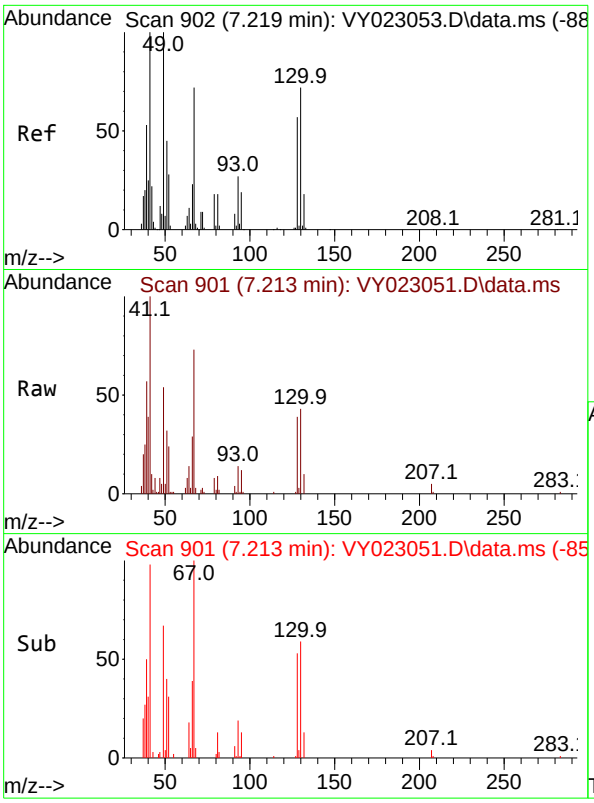


#40
Benzene
Concen: 10.037 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 78 Resp: 243060

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.6	28.0

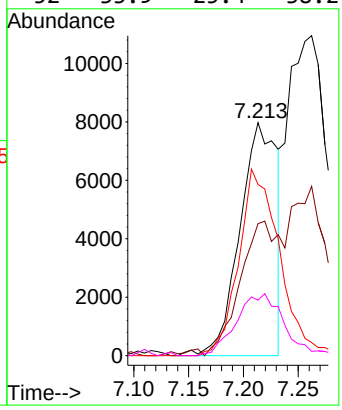




#41
Methacrylonitrile
Concen: 9.872 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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
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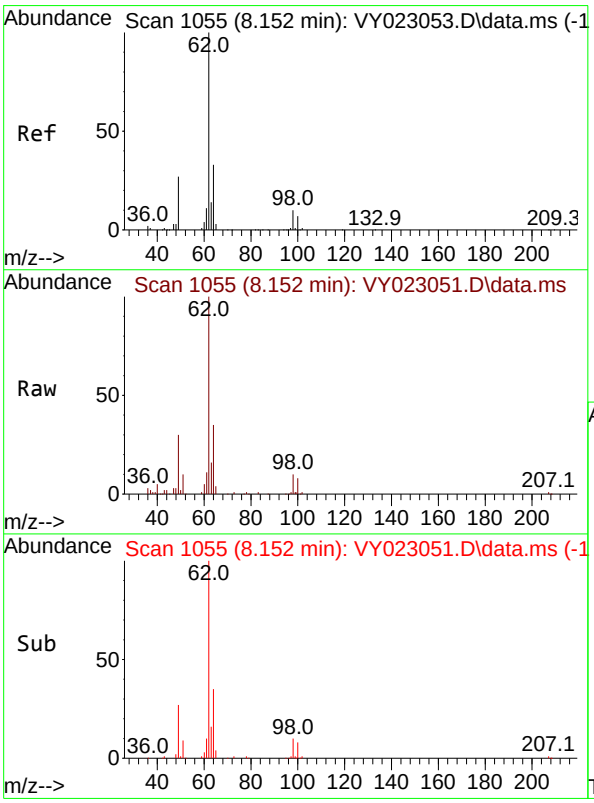
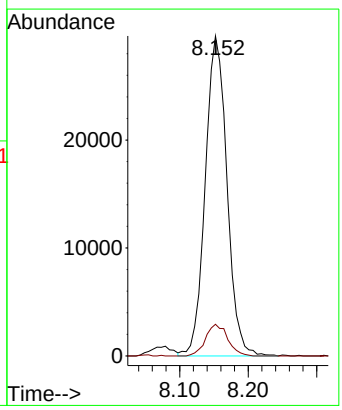
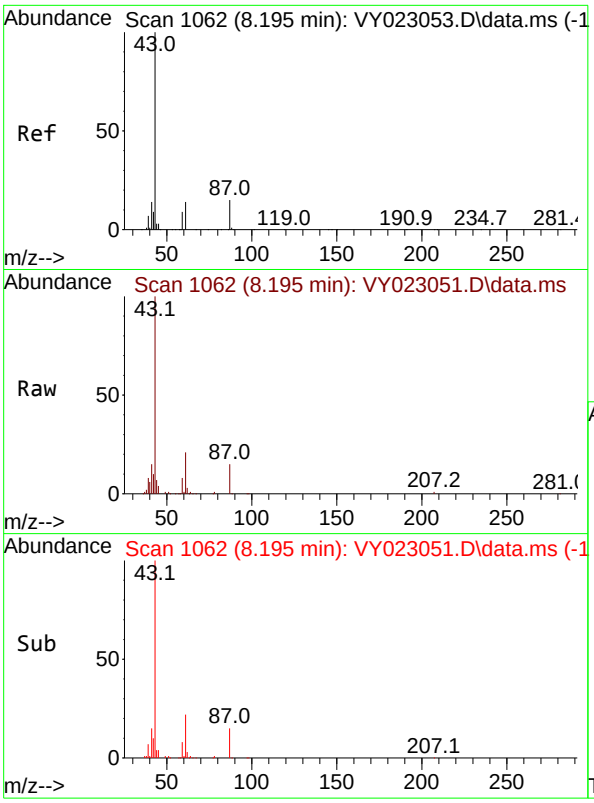


#42
1,2-Dichloroethane
Concen: 10.376 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 65350

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6

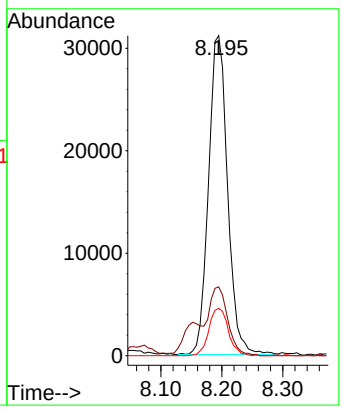




#43
Isopropyl Acetate
Concen: 10.144 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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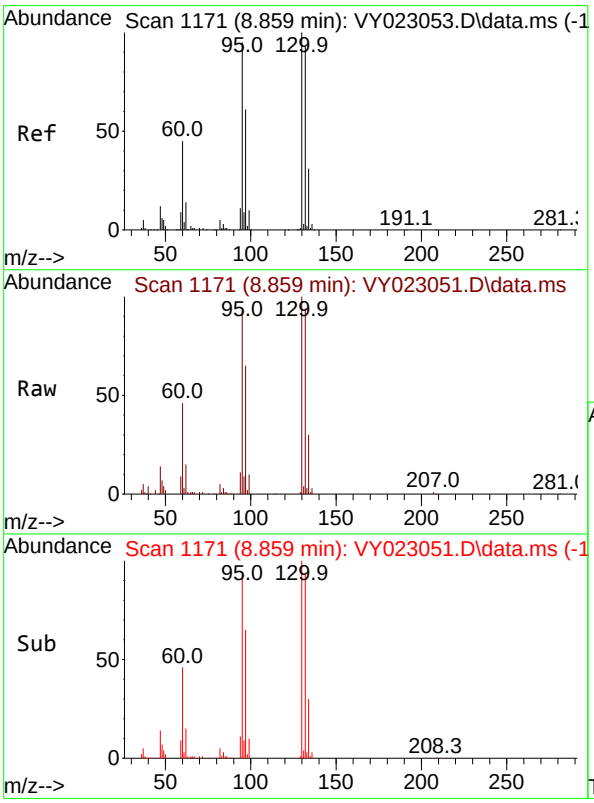
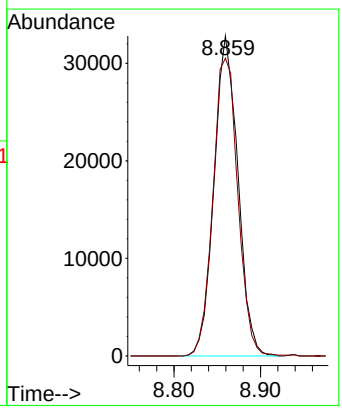
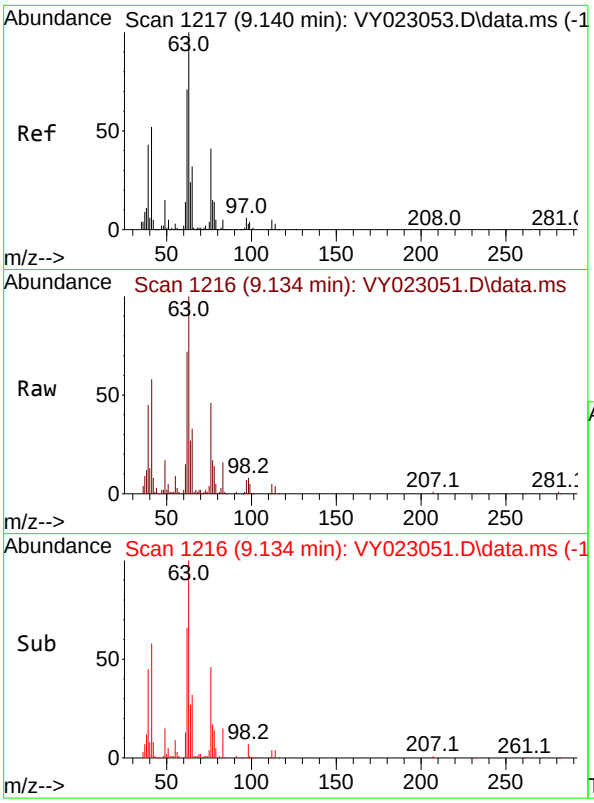


#44
Trichloroethene
Concen: 10.017 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:130 Resp: 62689

Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	190.2

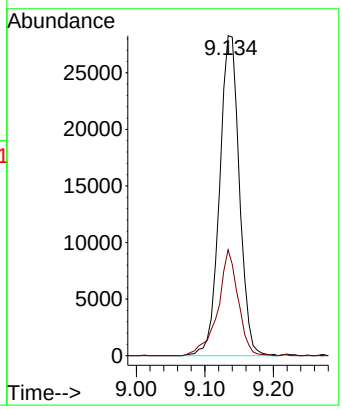




#45
1,2-Dichloropropane
Concen: 10.179 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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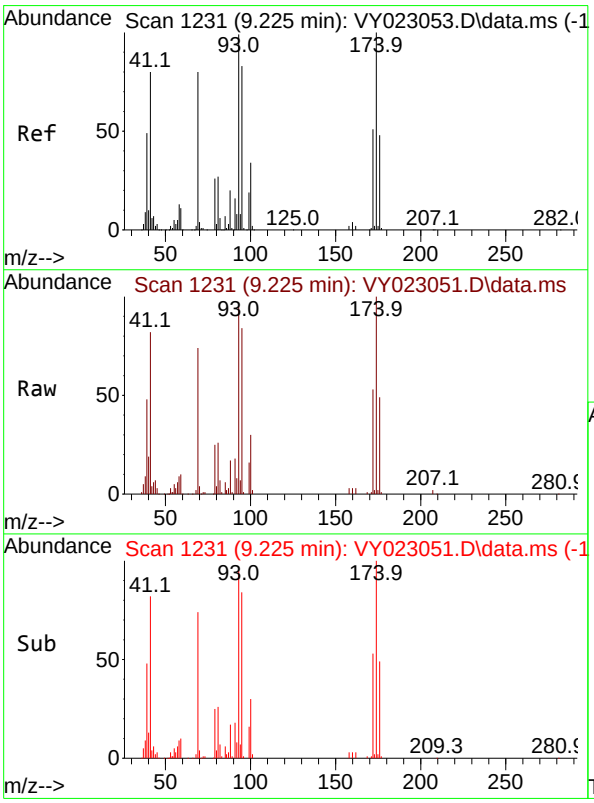
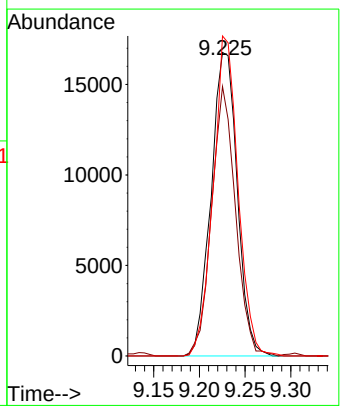
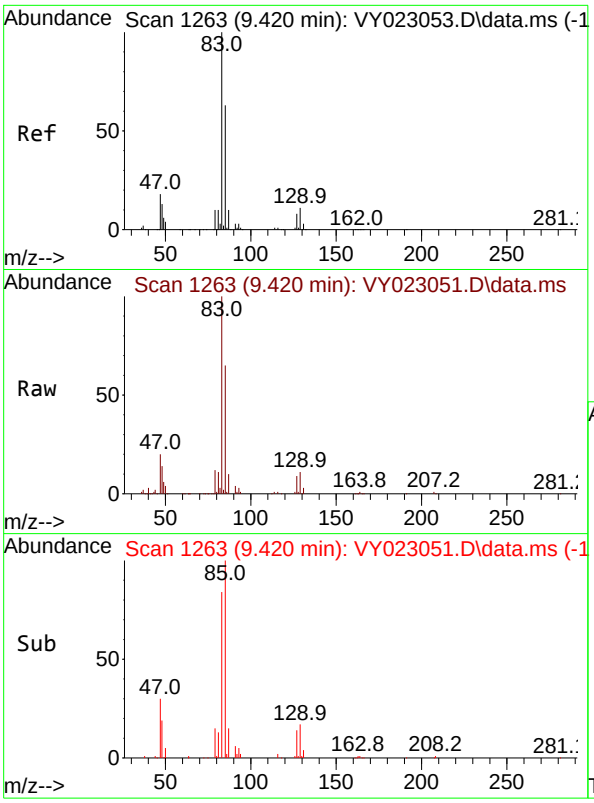


#46
Dibromomethane
Concen: 10.462 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

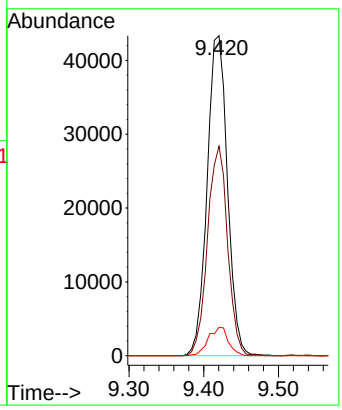




#47
Bromodichloromethane
Concen: 9.959 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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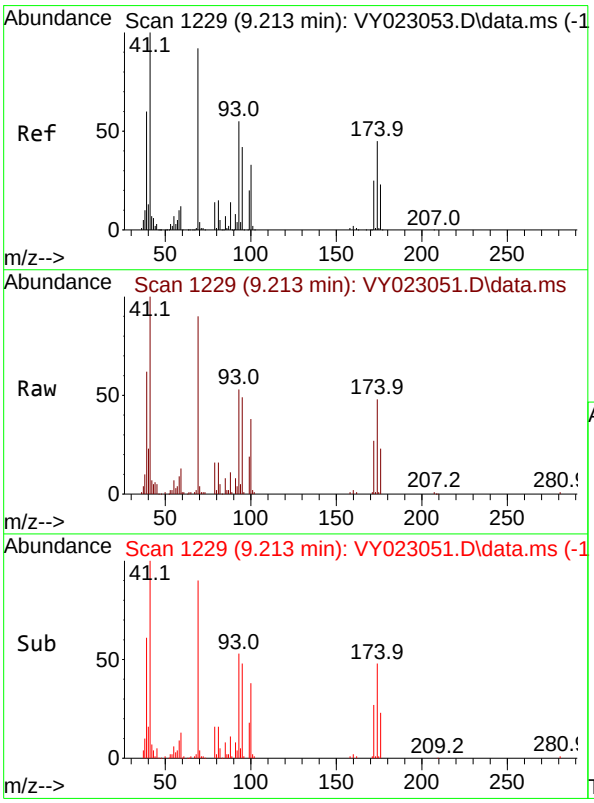
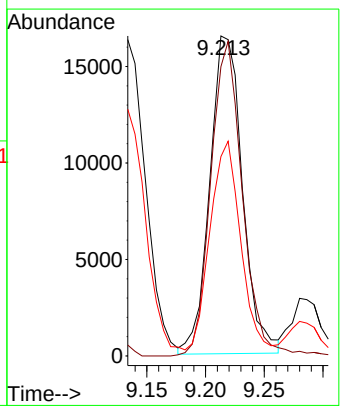
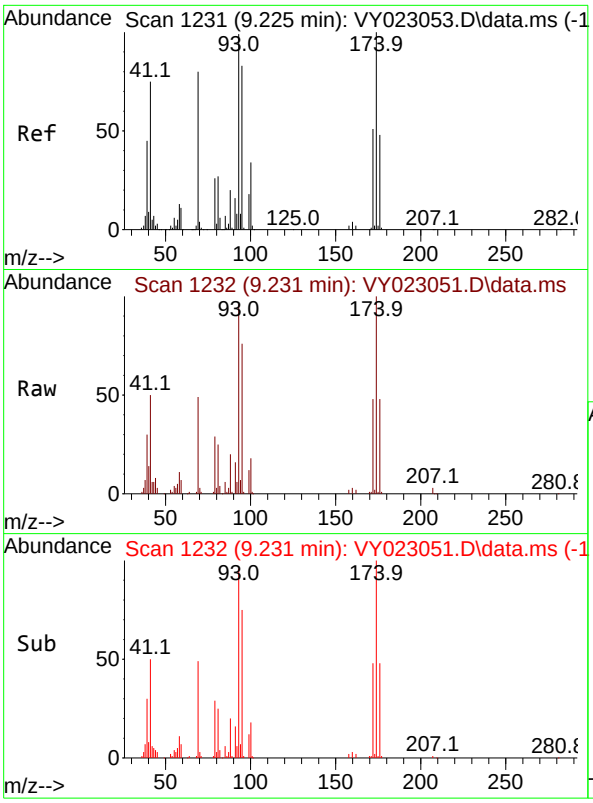


#48
Methyl methacrylate
Concen: 9.978 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
VSTDICC010

Manual Integrations
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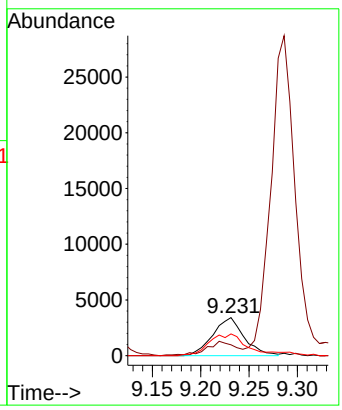
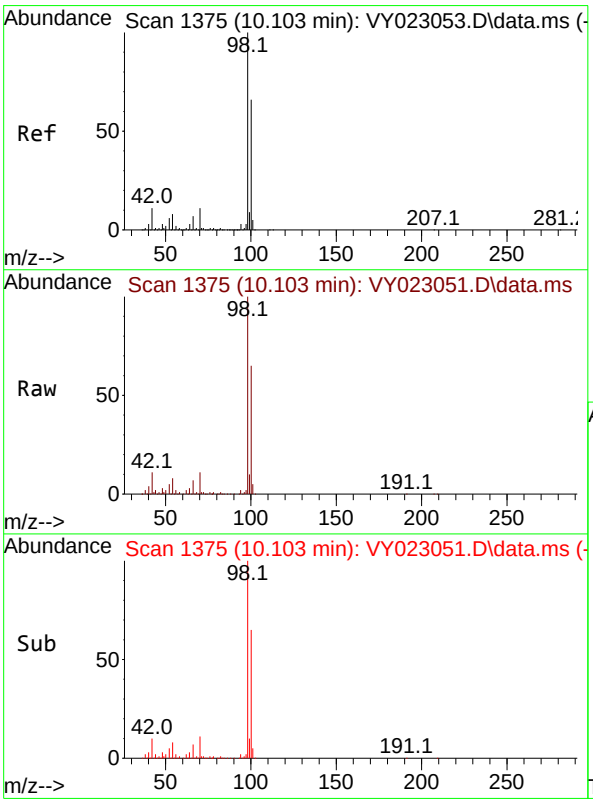
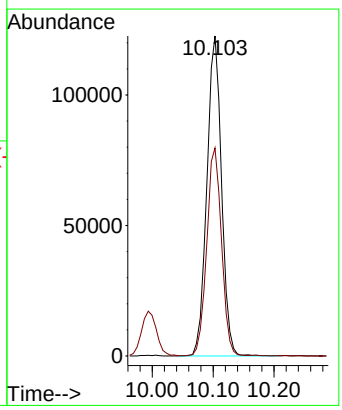


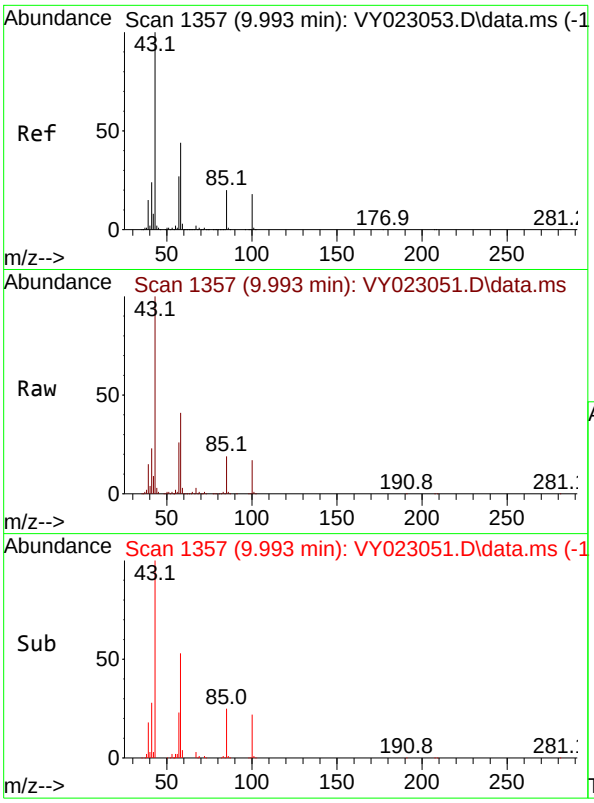


#50
Toluene-d8
Concen: 9.903 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 98 Resp: 204532

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

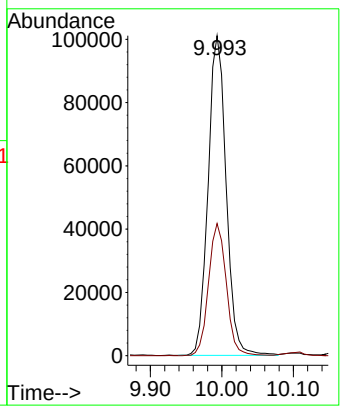




#51
4-Methyl-2-Pentanone
Concen: 51.484 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 17715

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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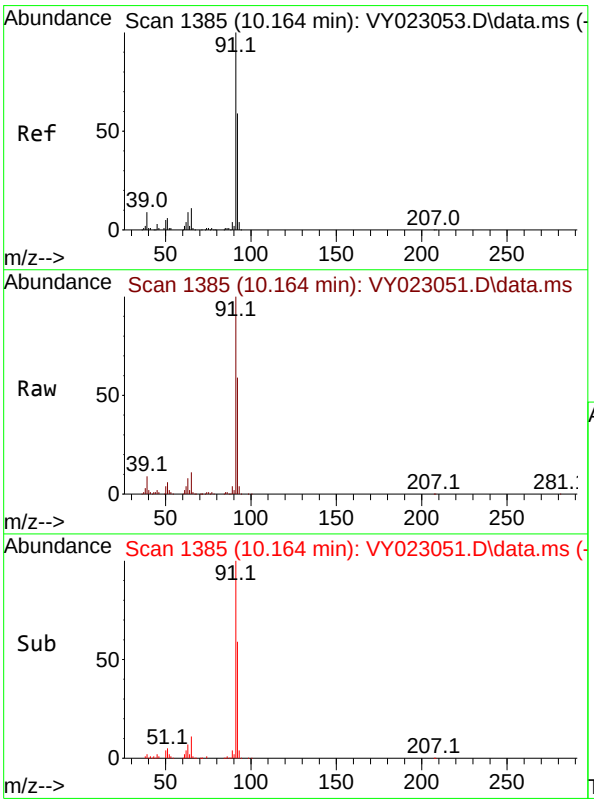
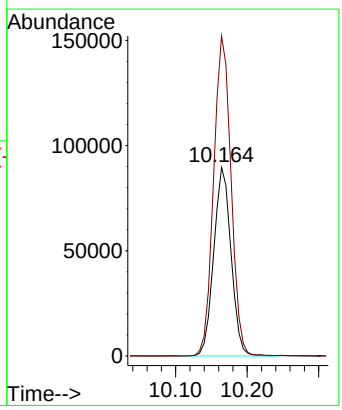
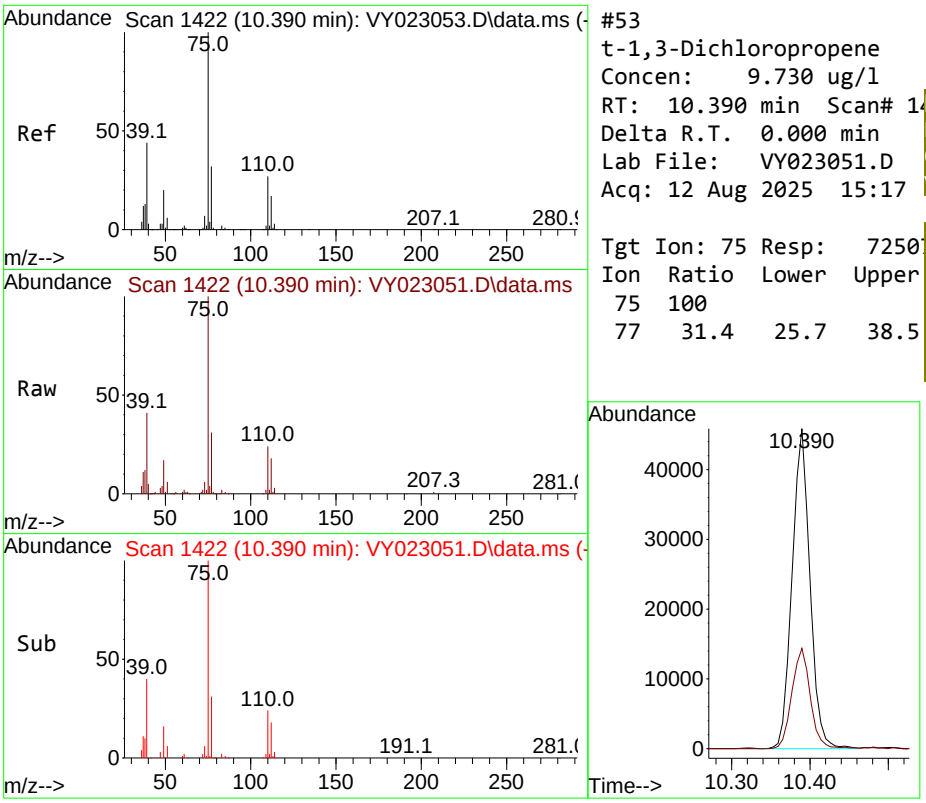


#52
Toluene
Concen: 9.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
VSTDICC010

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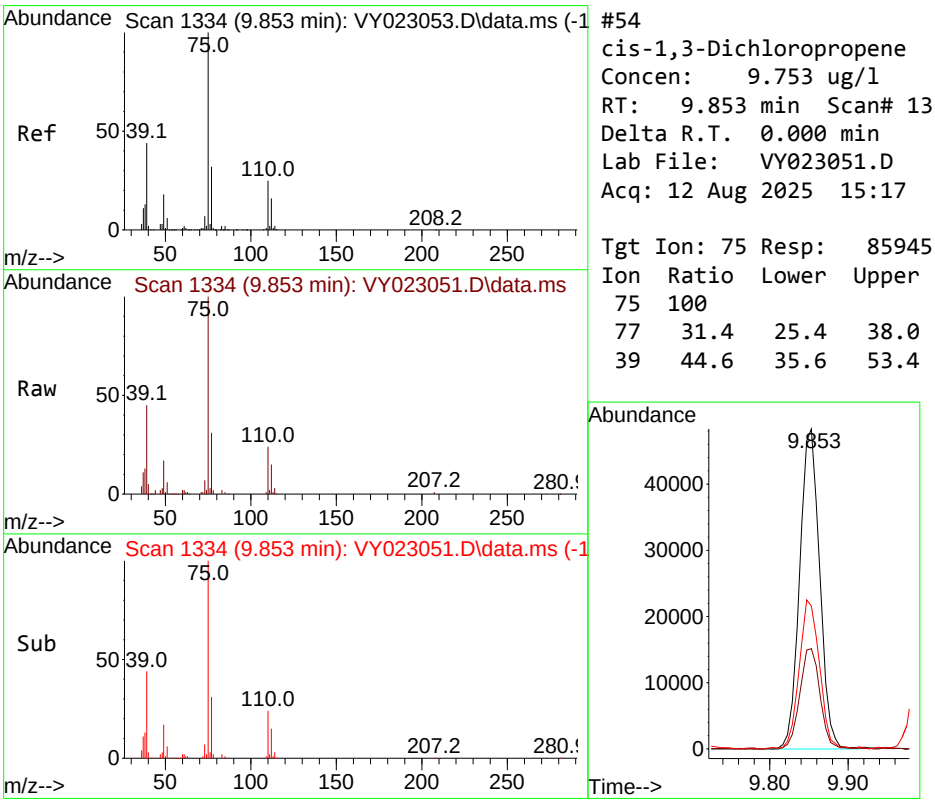
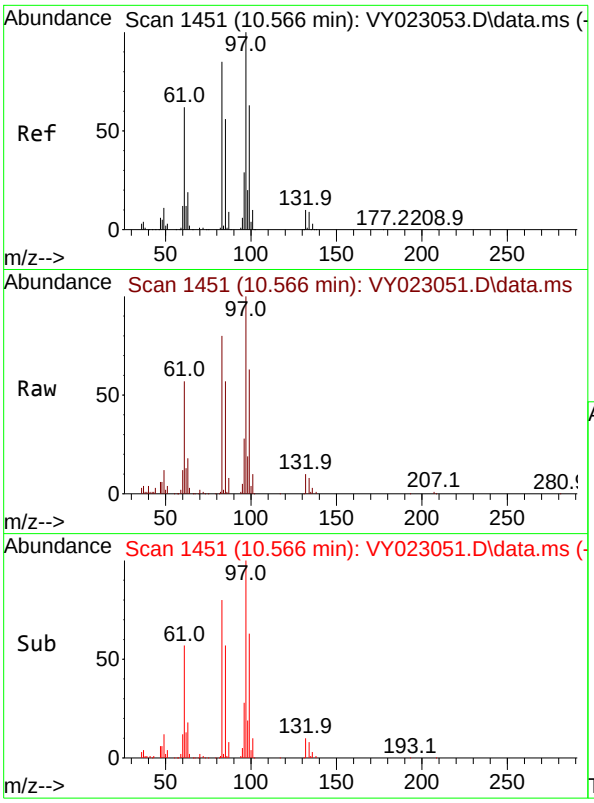
Supervised By :Semsettin Yesilyurt 08/14/2025



#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

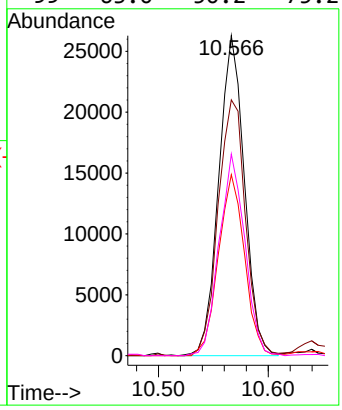
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	44.6	35.6	53.4



#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 :
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ClientSampleId :
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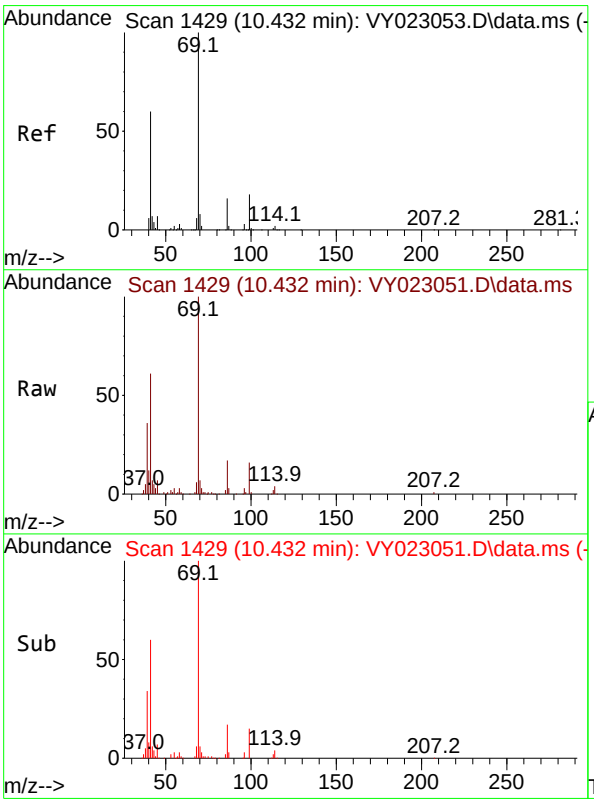
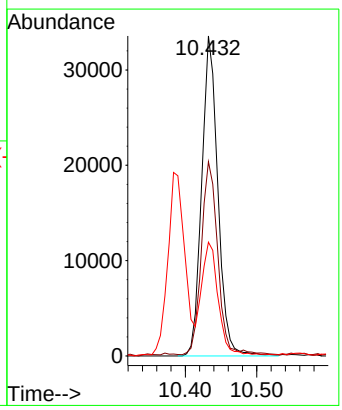
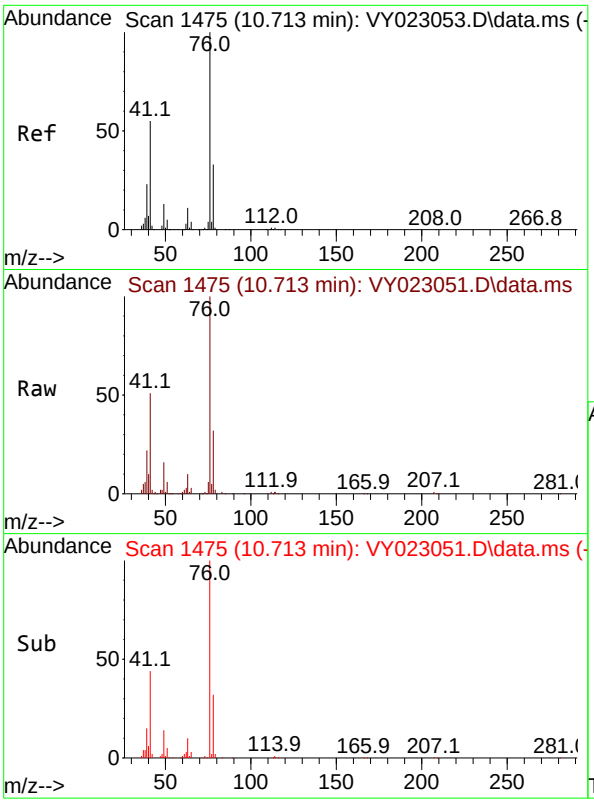


#56
Ethyl methacrylate
Concen: 9.632 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

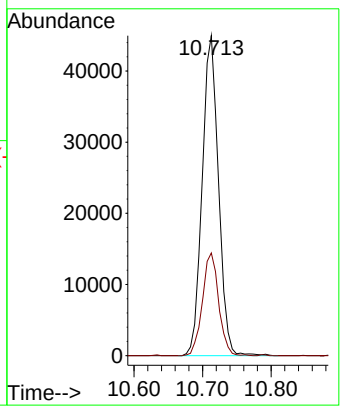




#57
1,3-Dichloropropane
Concen: 10.256 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 76 Resp: 7443

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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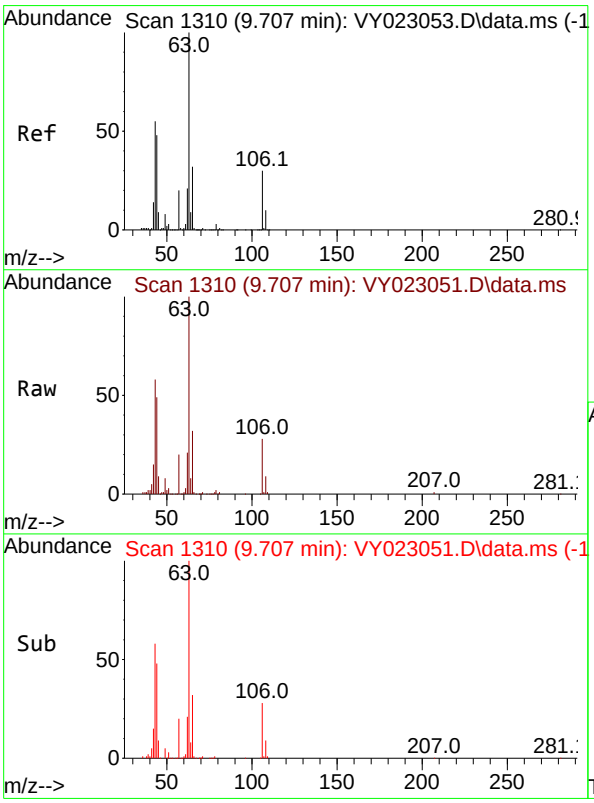
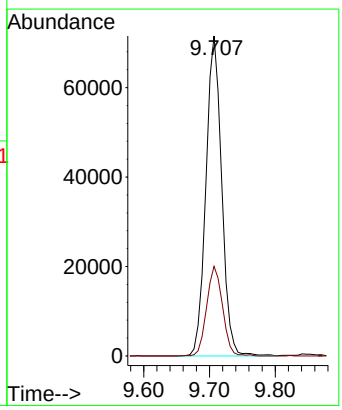
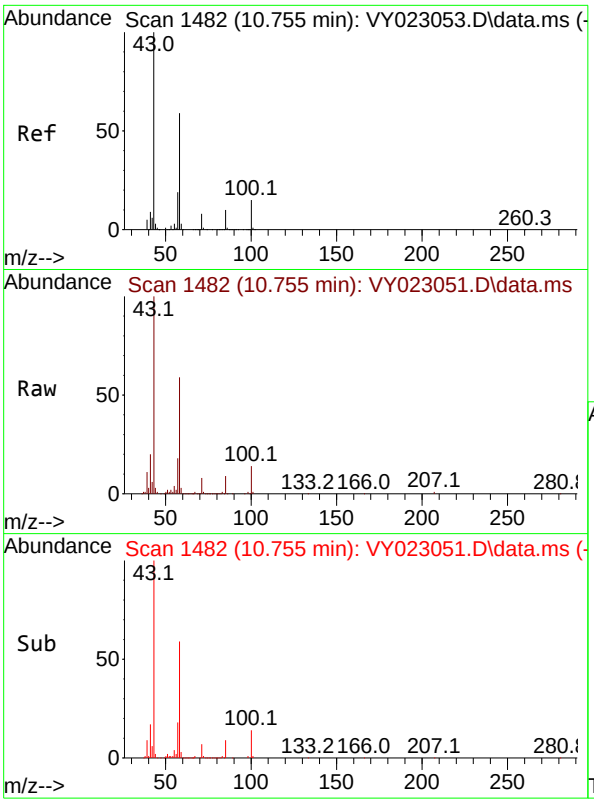


#58
2-Chloroethyl Vinyl ether
Concen: 46.232 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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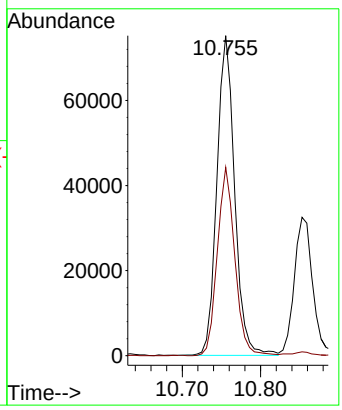
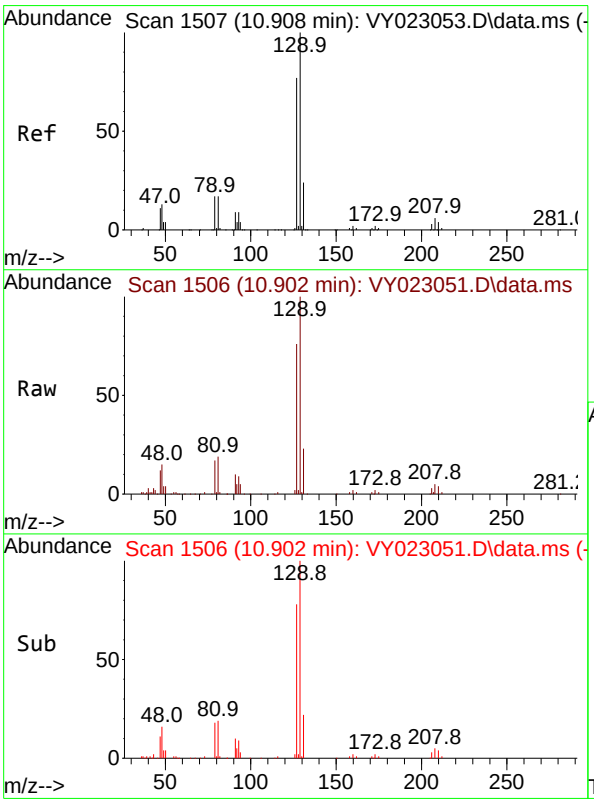
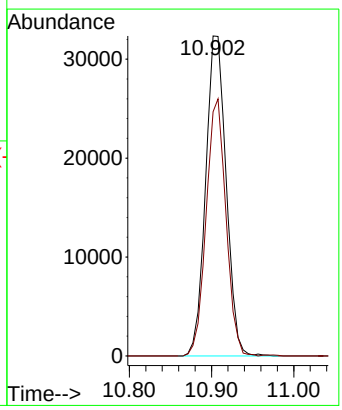


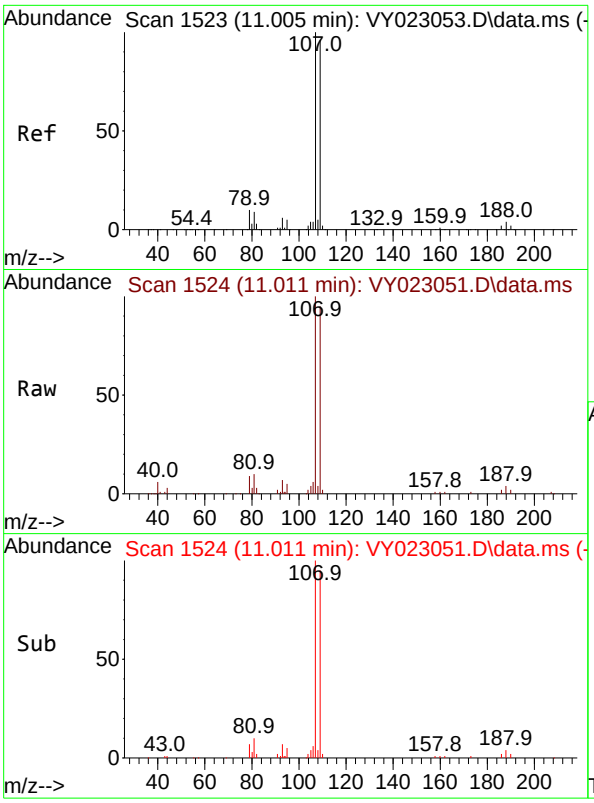


#60
Dibromochloromethane
Concen: 9.925 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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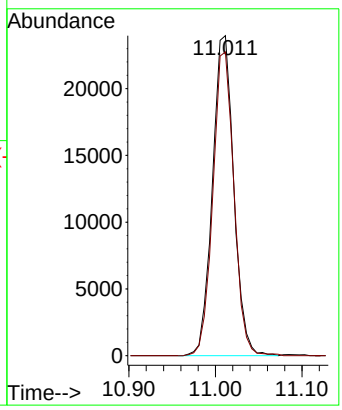
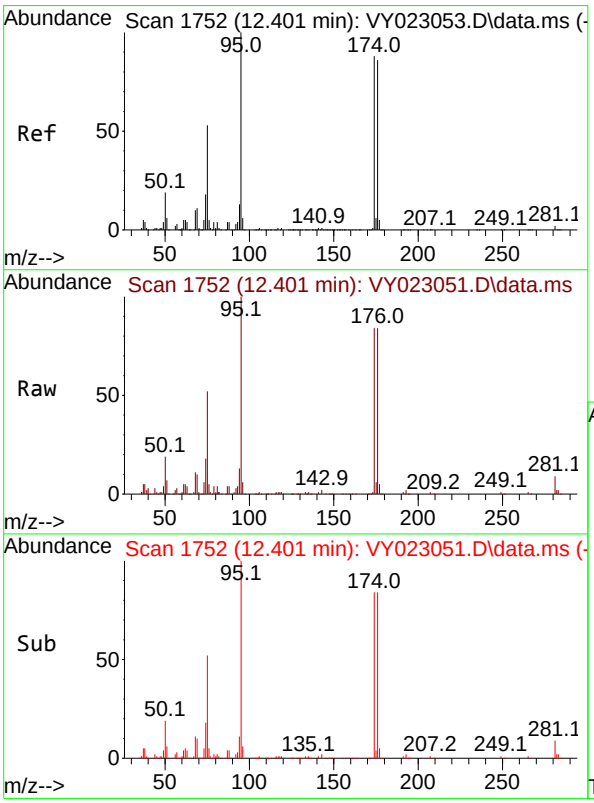
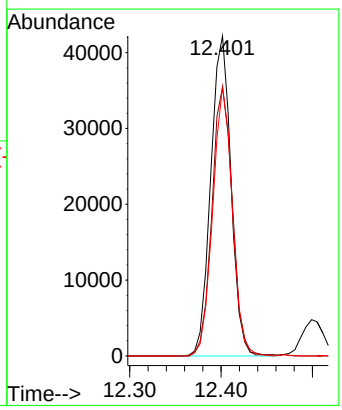


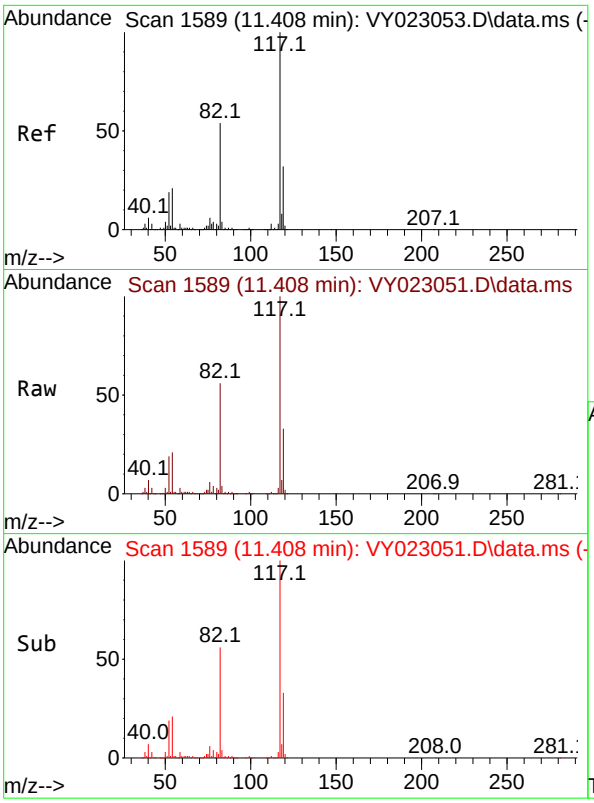


#62
4-Bromofluorobenzene
Concen: 9.775 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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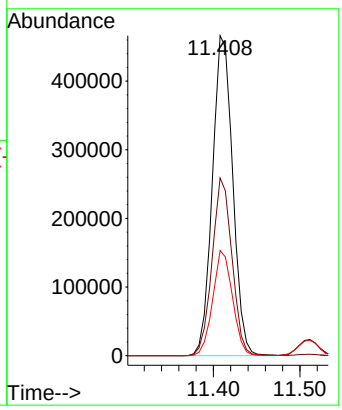
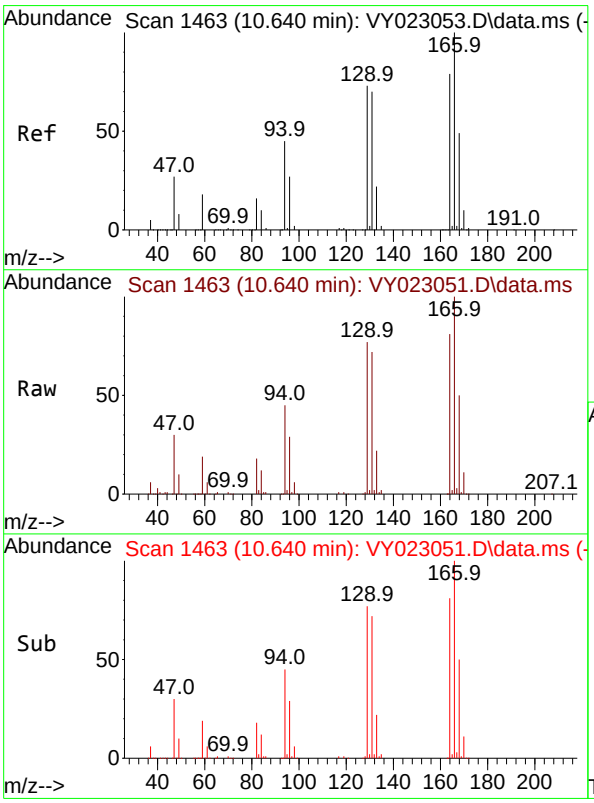
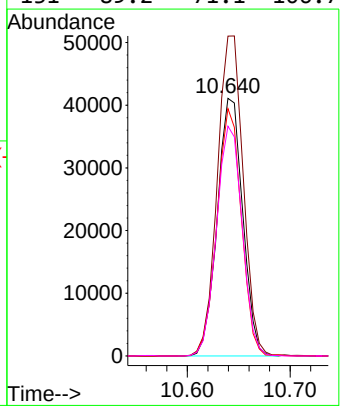


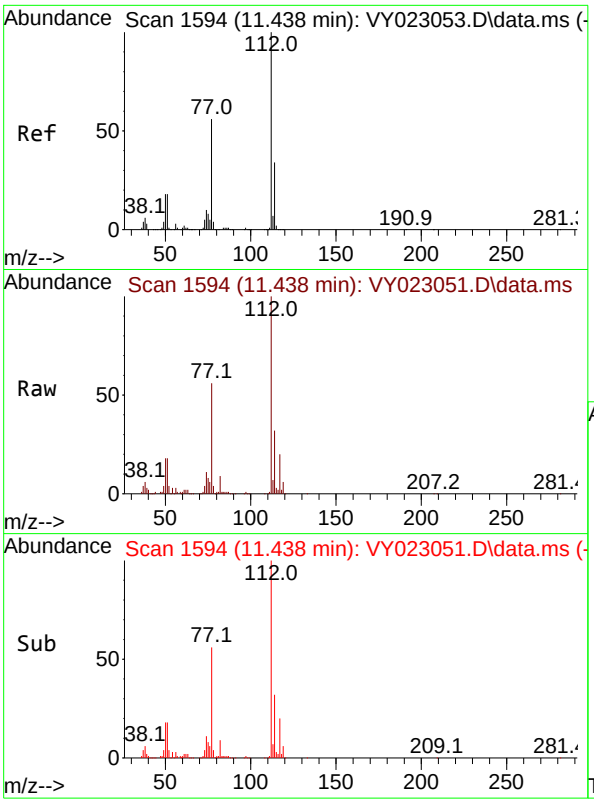


#64
Tetrachloroethene
Concen: 10.371 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

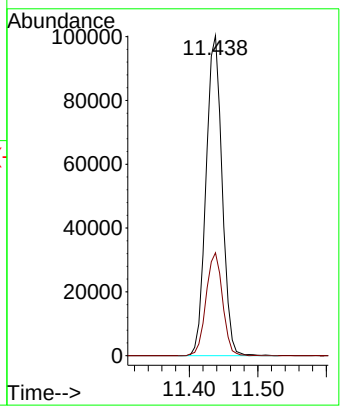




#65
Chlorobenzene
Concen: 9.925 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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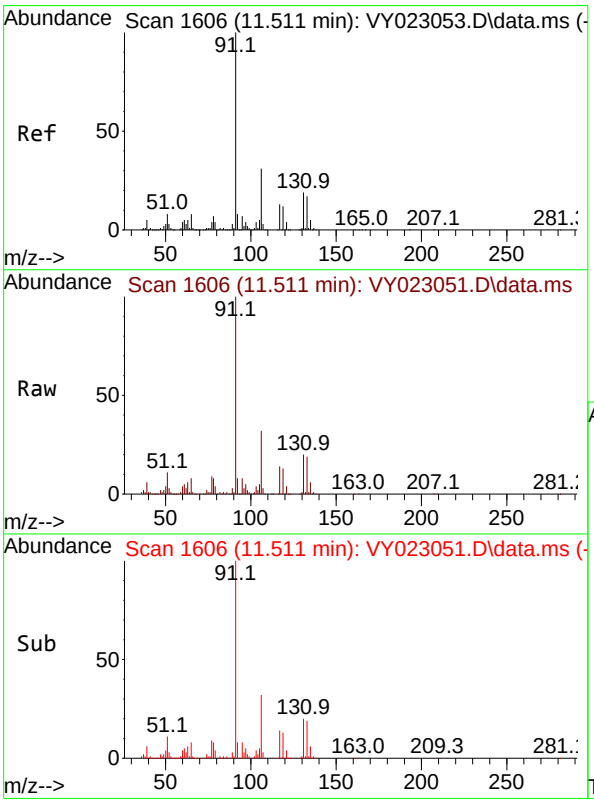
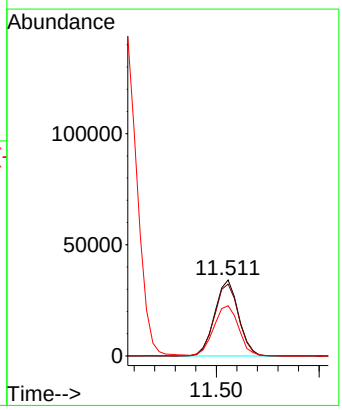
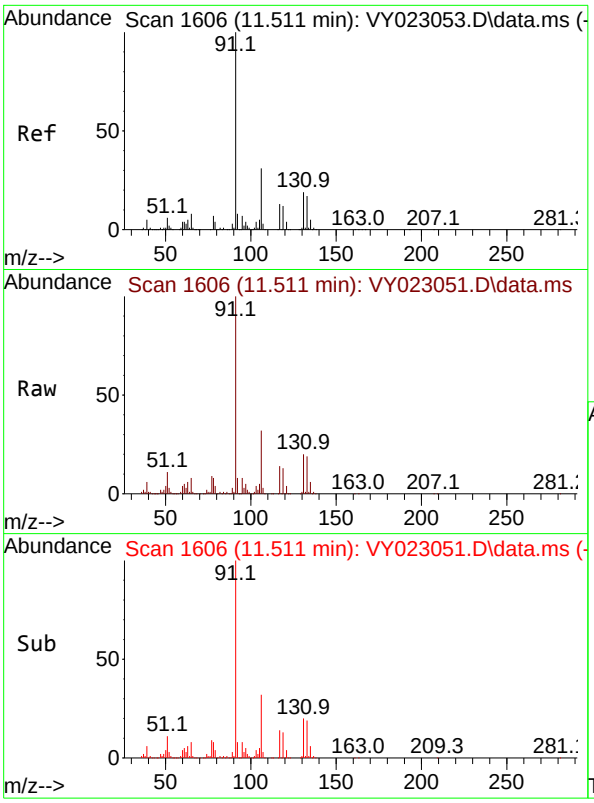


#66
1,1,1,2-Tetrachloroethane
Concen: 9.842 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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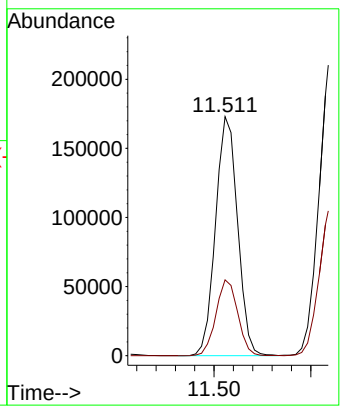
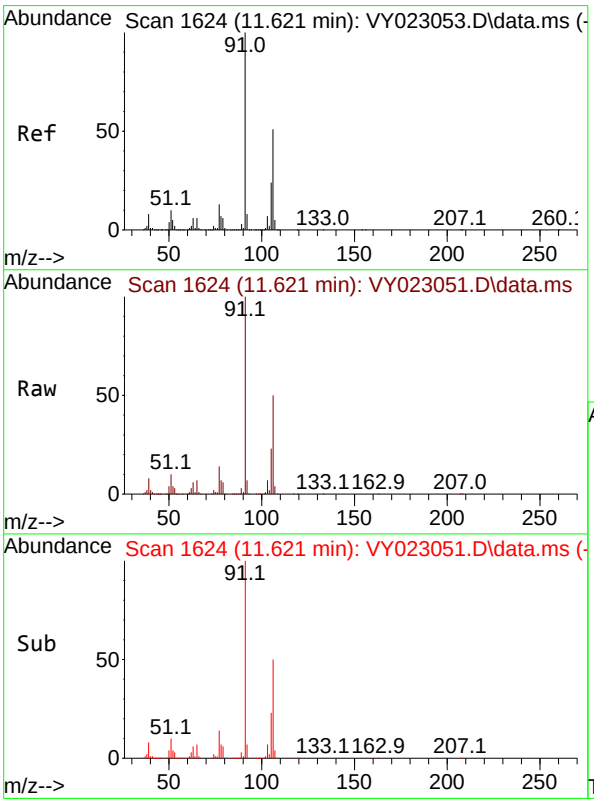
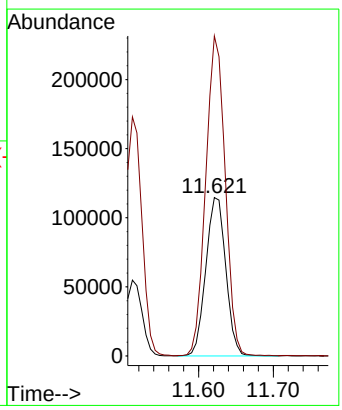


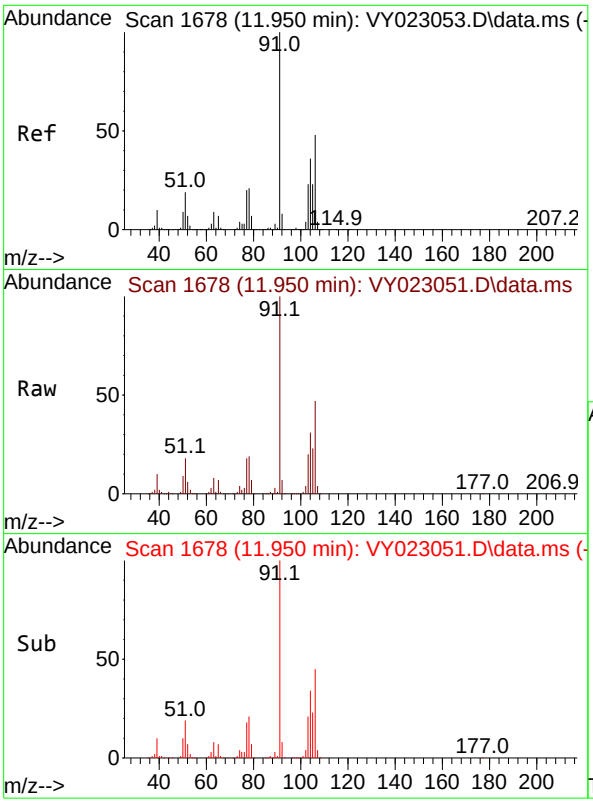


#68
m/p-Xylenes
Concen: 19.277 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 212766

Ion	Ratio	Lower	Upper
106	100		
91	196.5	158.6	238.0

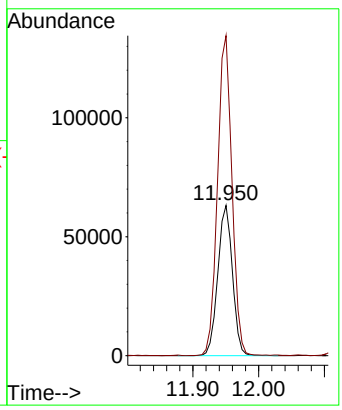




#69
o-Xylene
Concen: 9.465 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 9784

Ion	Ratio	Lower	Upper
106	100		
91	210.2	103.2	309.4



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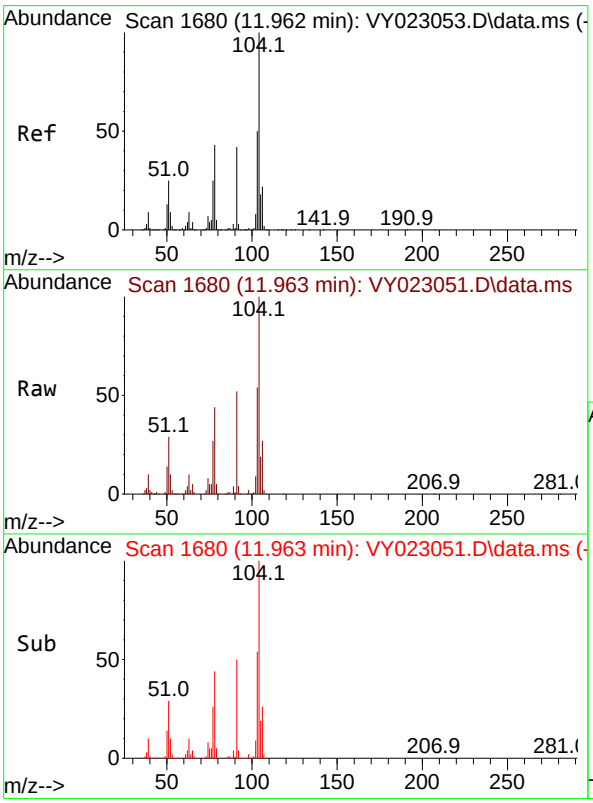
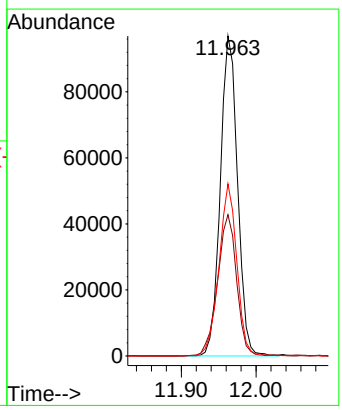
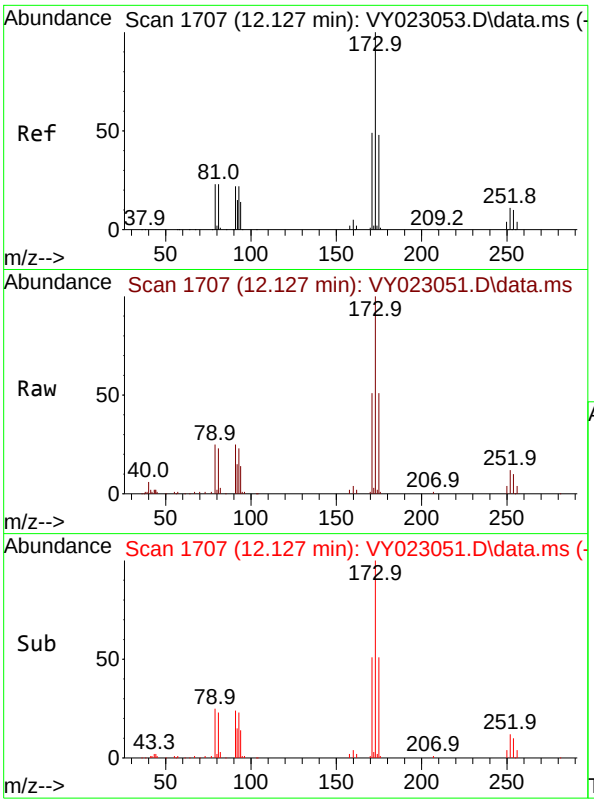


#70
Styrene
Concen: 9.216 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

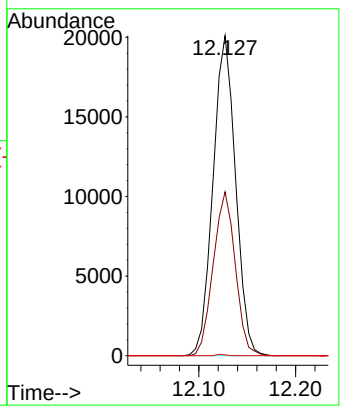




#71
Bromoform
Concen: 9.968 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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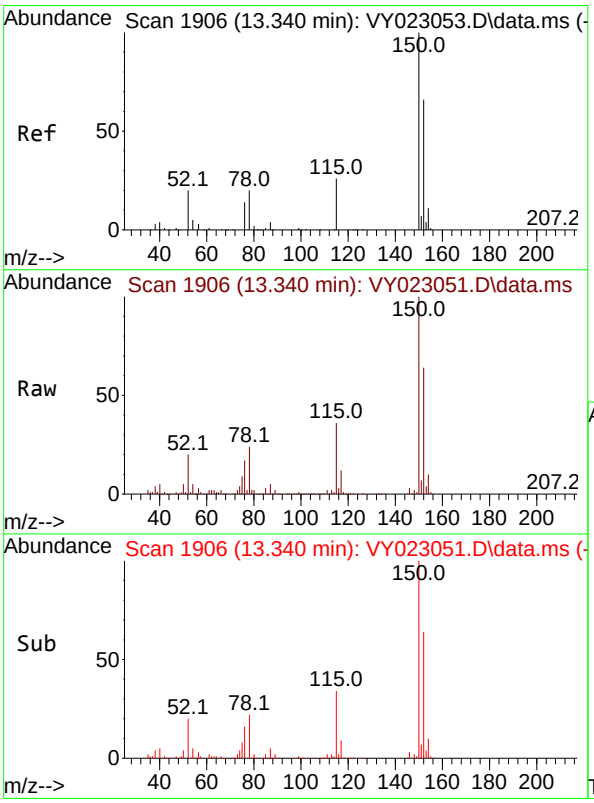
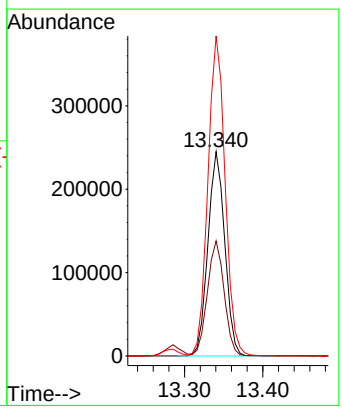
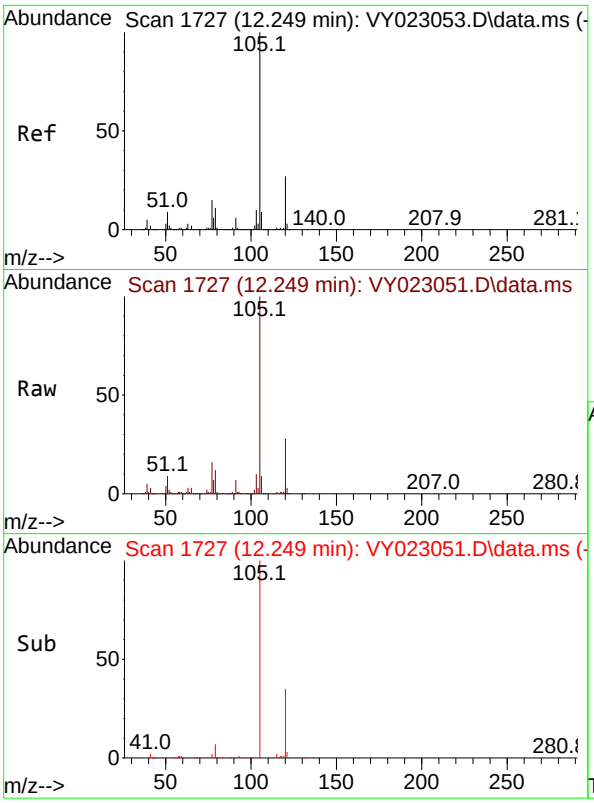


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

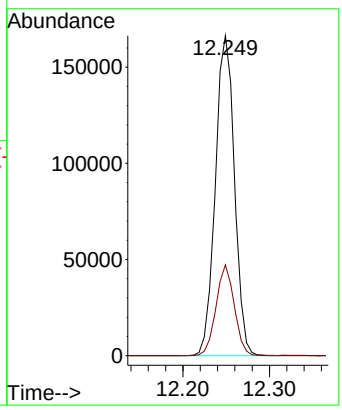




#73
Isopropylbenzene
Concen: 9.871 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 25474

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
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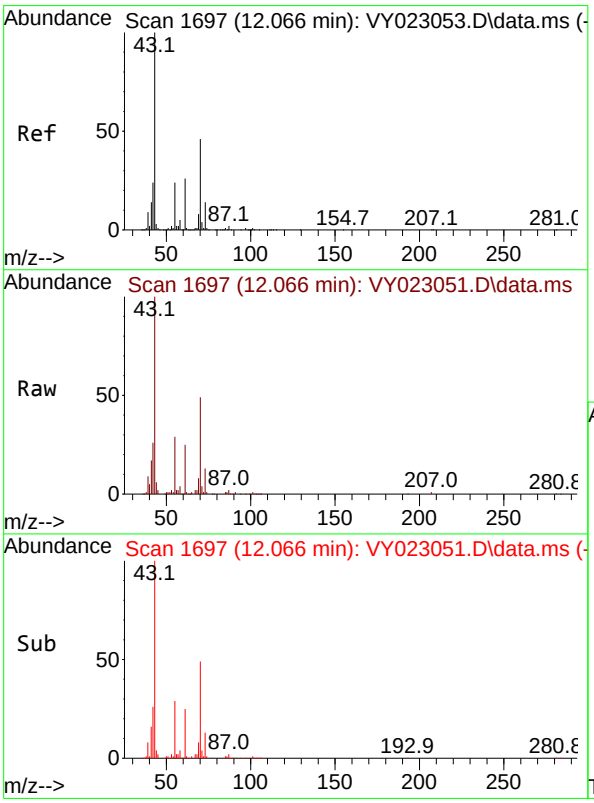
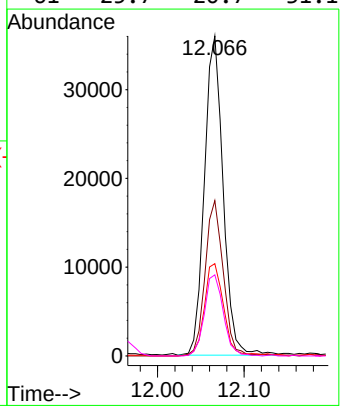
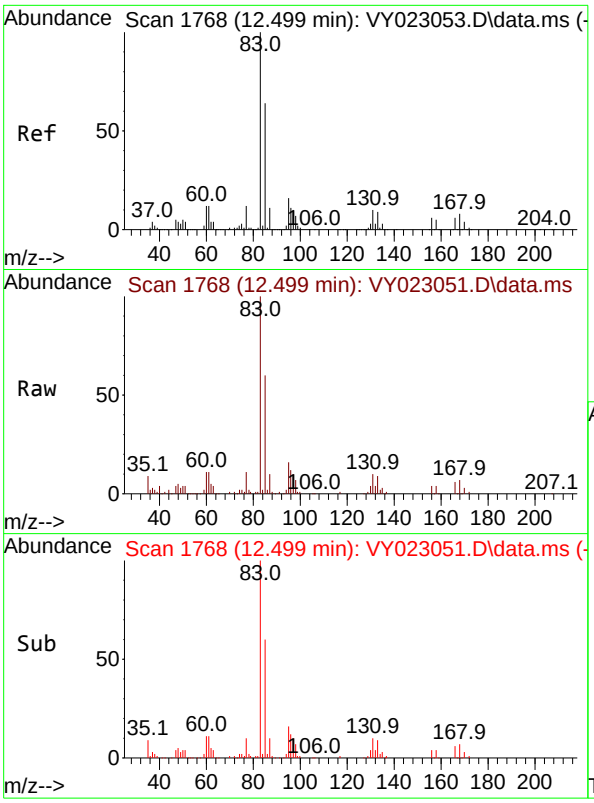


#74
N-amyl acetate
Concen: 9.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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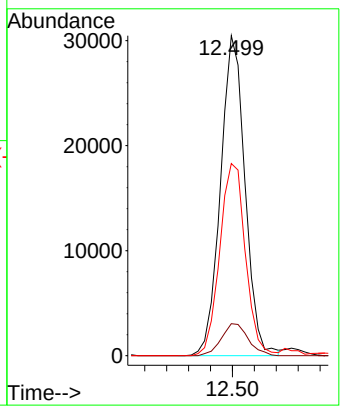
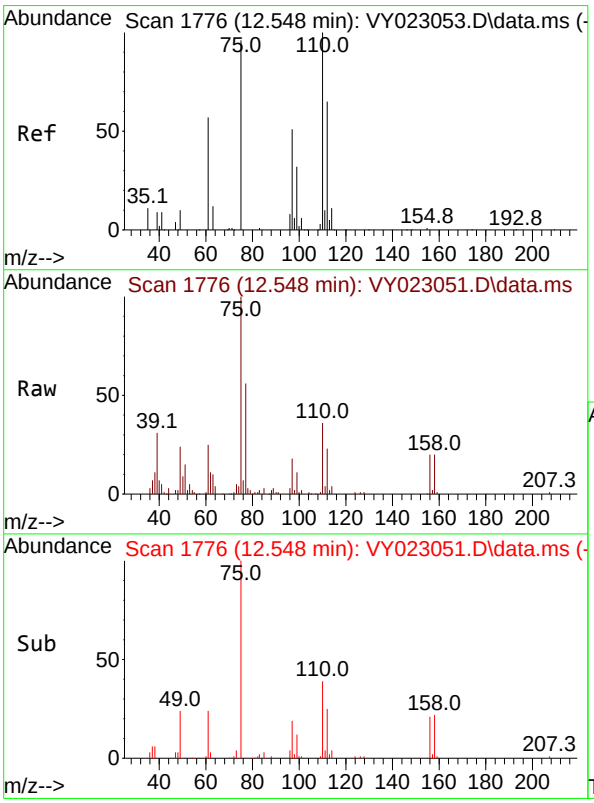
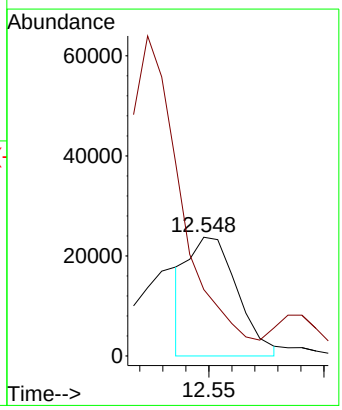


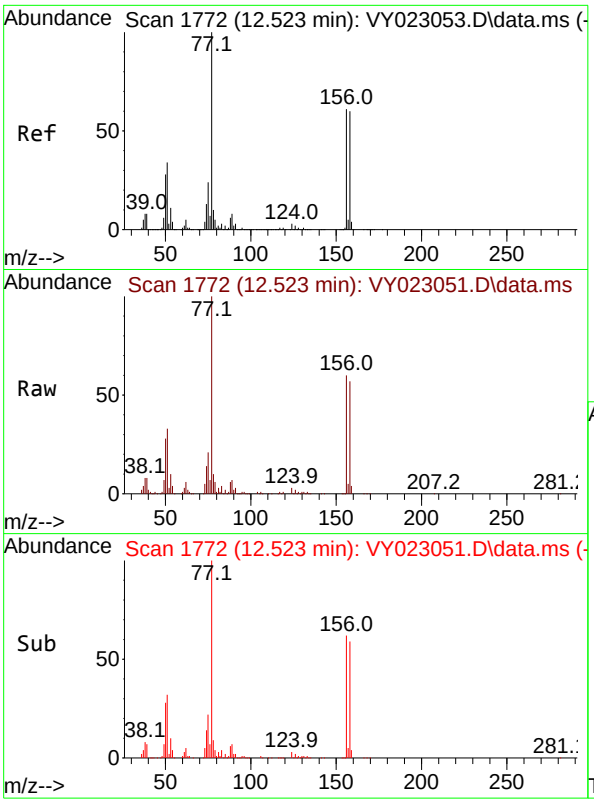


#76
1,2,3-Trichloropropane
Concen: 10.012 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 35353

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

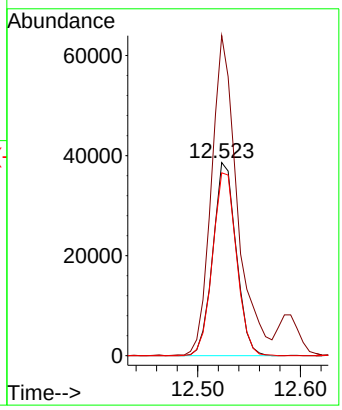




#77
Bromobenzene
Concen: 9.864 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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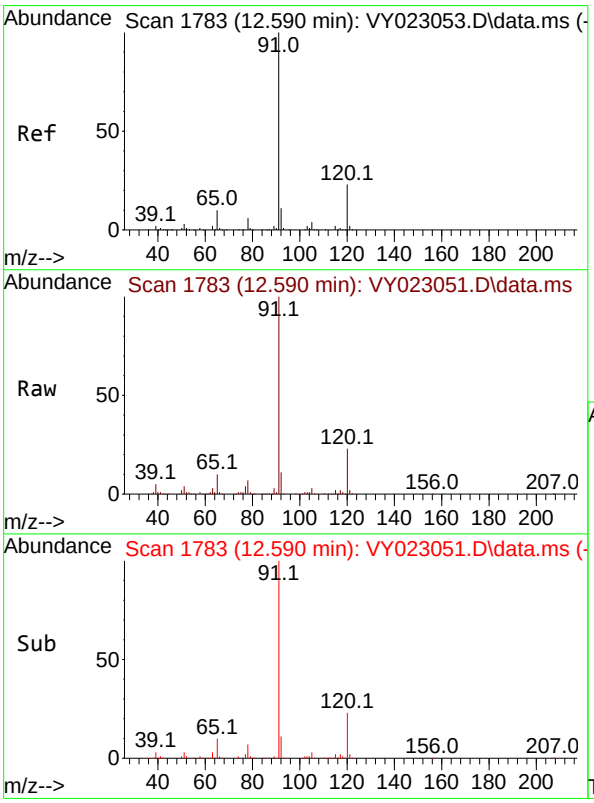
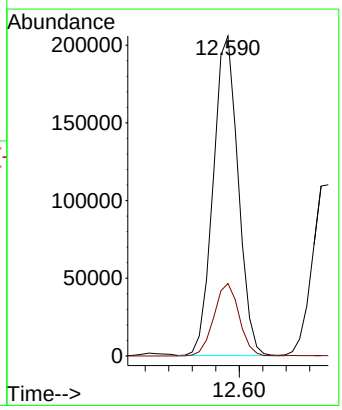
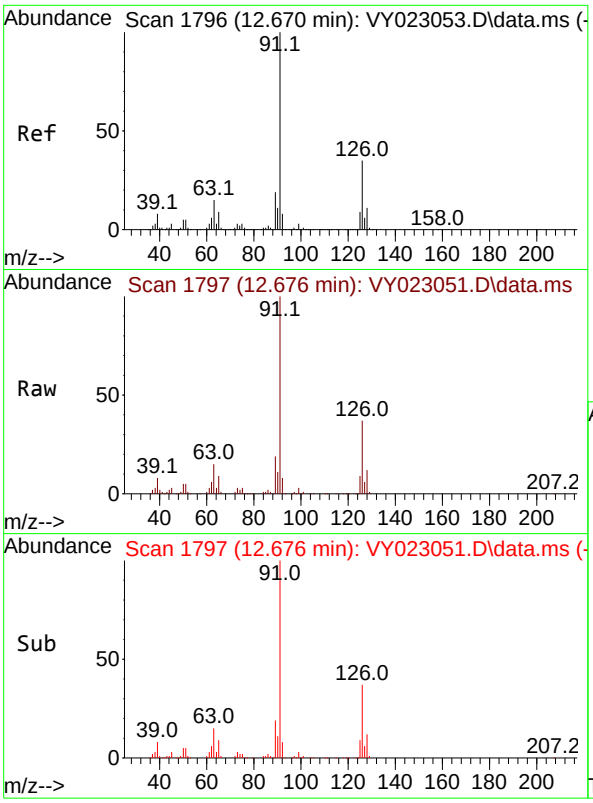


#78
n-propylbenzene
Concen: 9.876 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 303440

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5

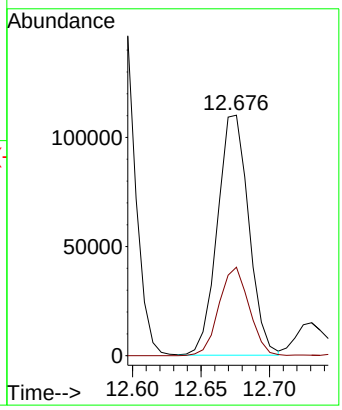




#79
2-Chlorotoluene
Concen: 9.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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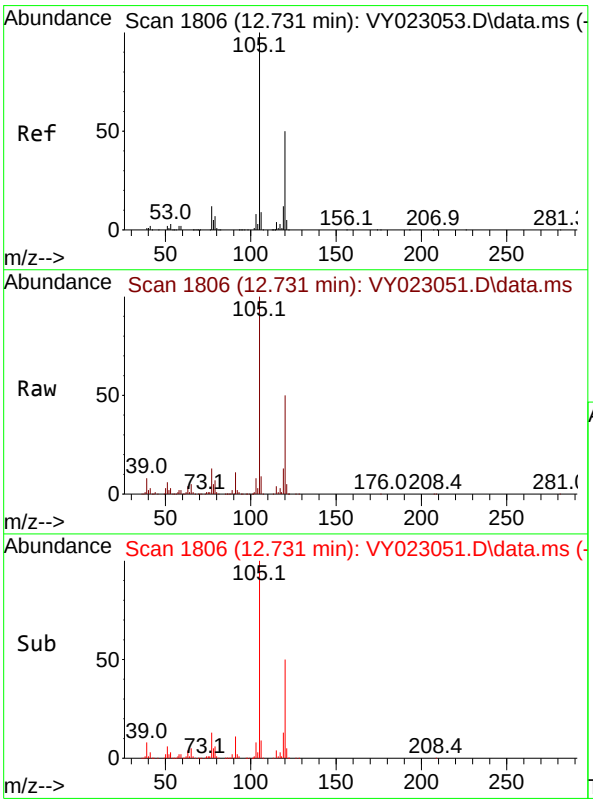
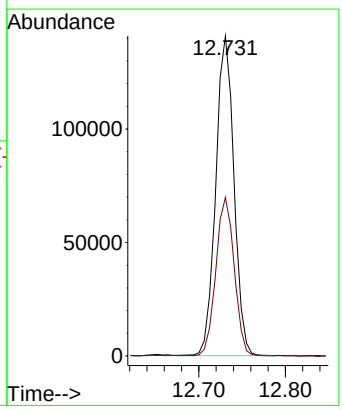
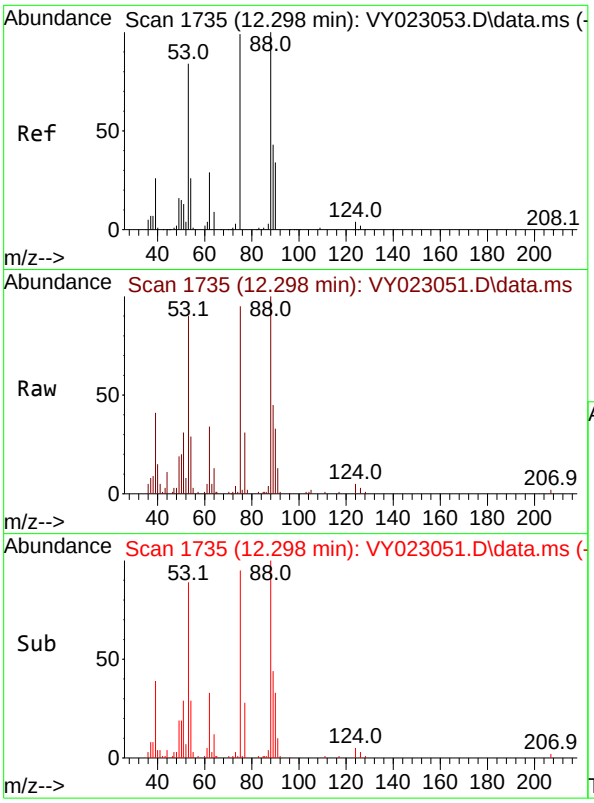


#80
1,3,5-Trimethylbenzene
Concen: 9.855 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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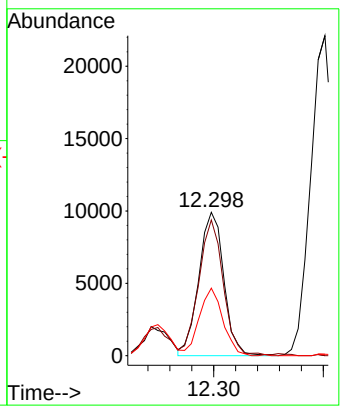
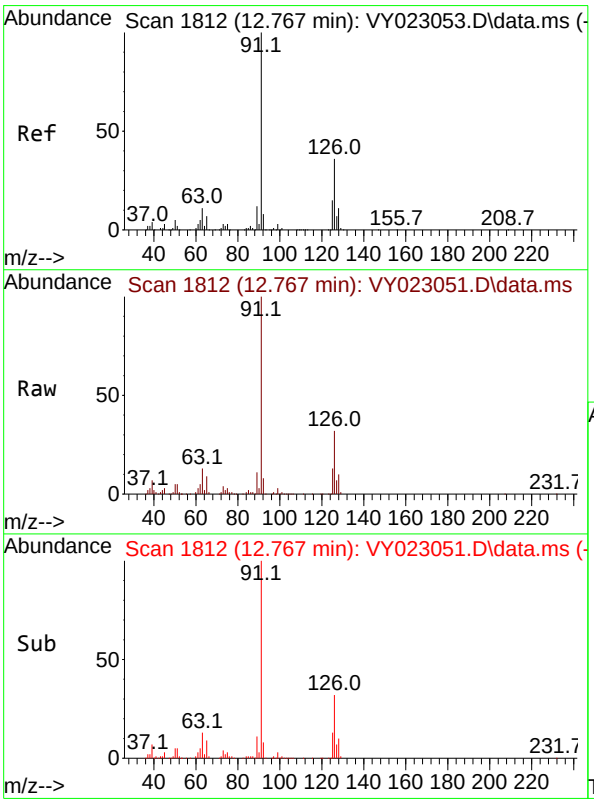
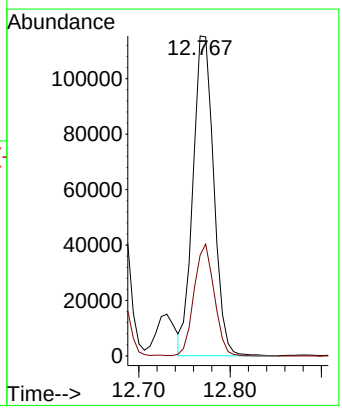


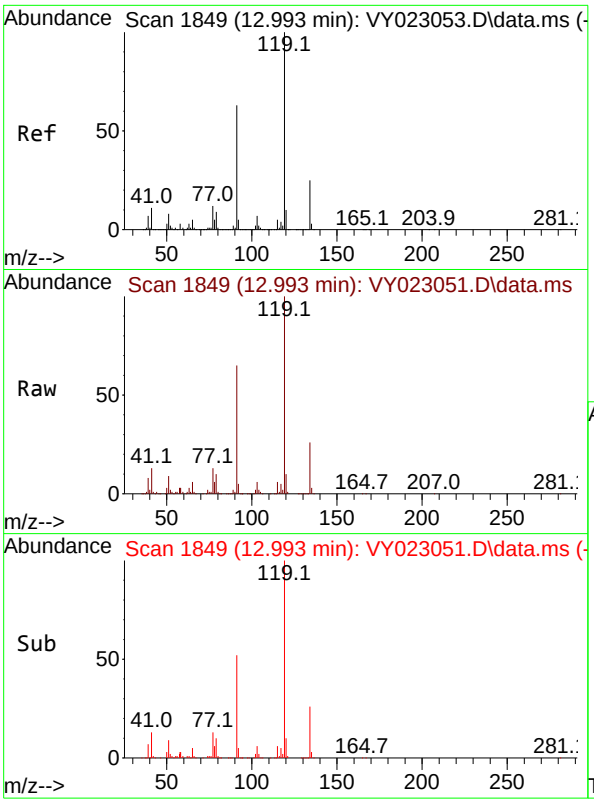


#82
4-Chlorotoluene
Concen: 9.956 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 181812

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	52.0

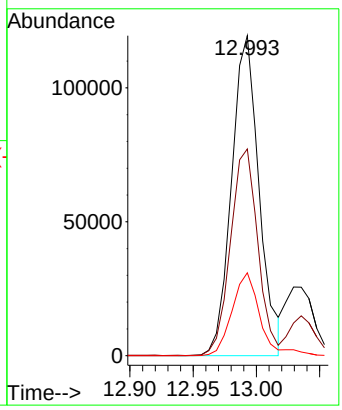




#83
tert-Butylbenzene
Concen: 9.630 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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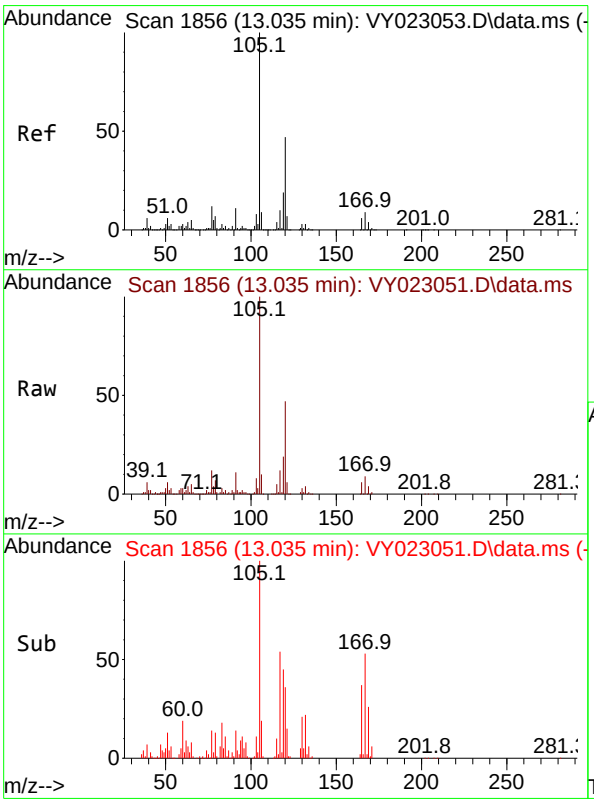
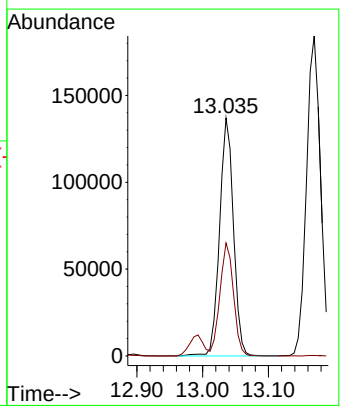
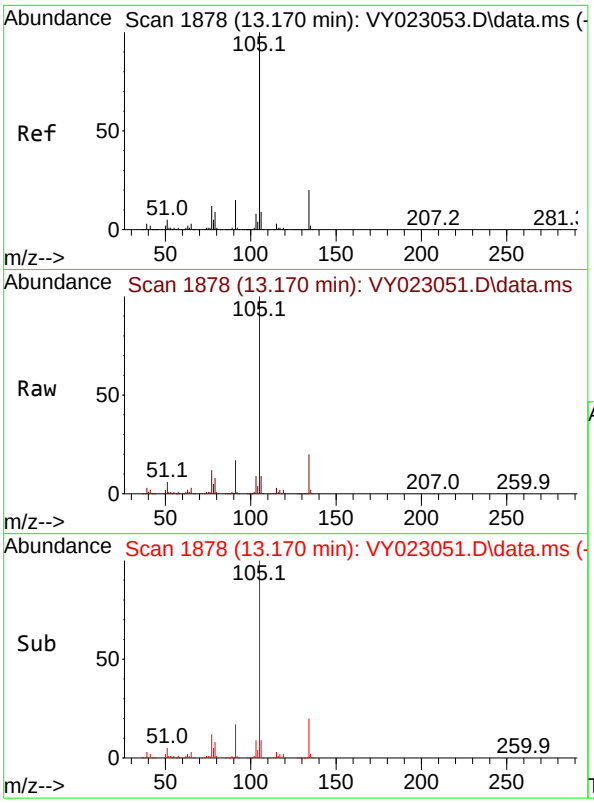


#84
1,2,4-Trimethylbenzene
Concen: 9.720 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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
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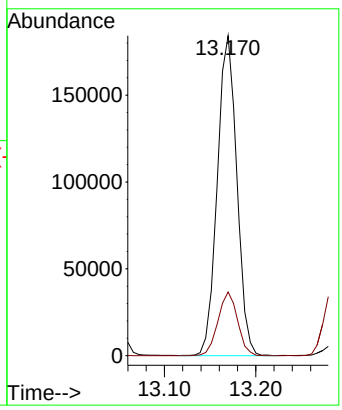
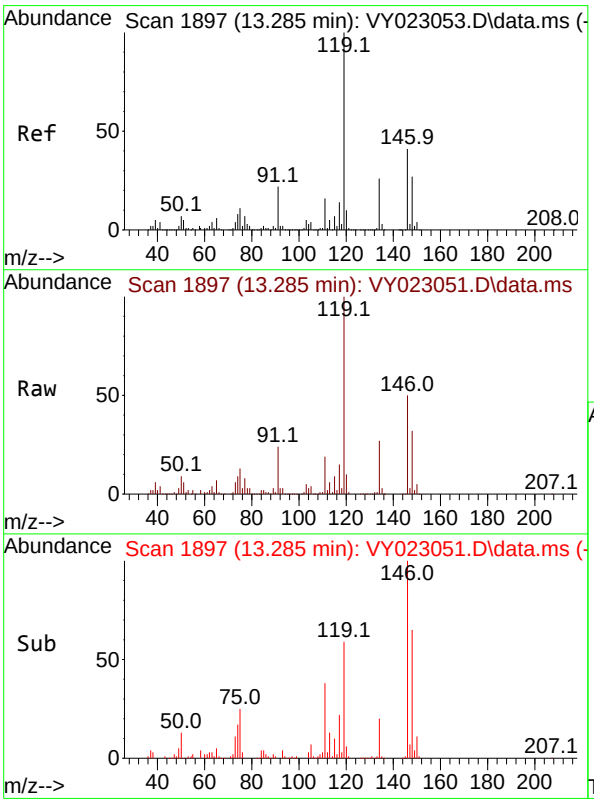
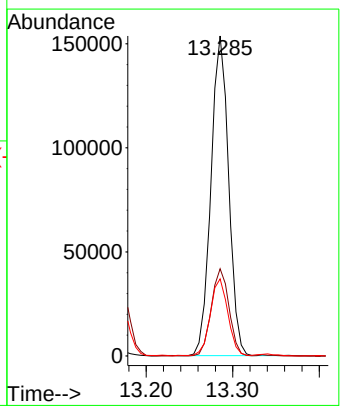


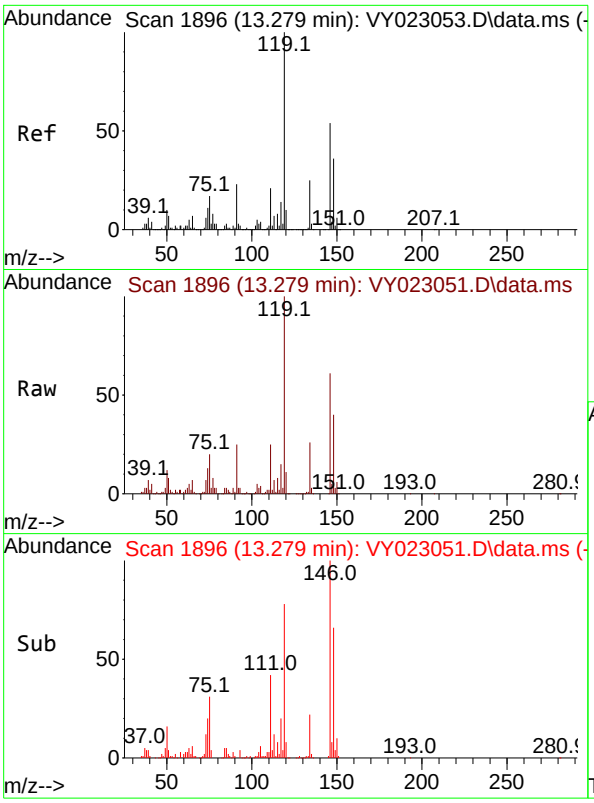


#86
p-Isopropyltoluene
Concen: 9.482 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

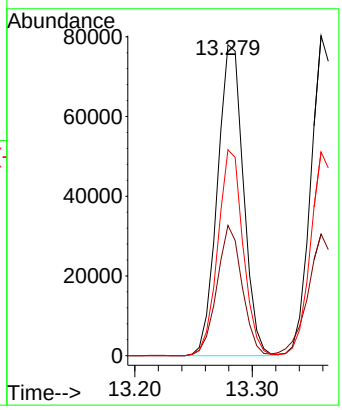




#87
1,3-Dichlorobenzene
Concen: 9.893 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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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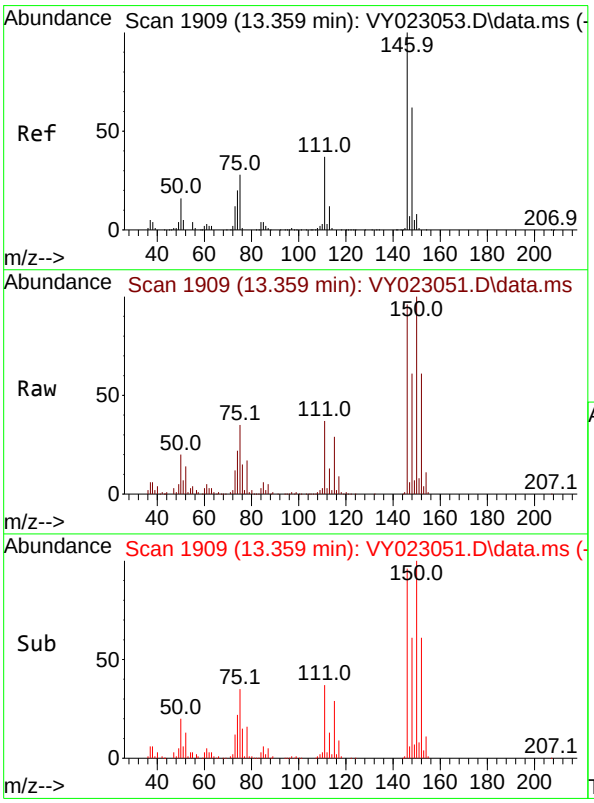
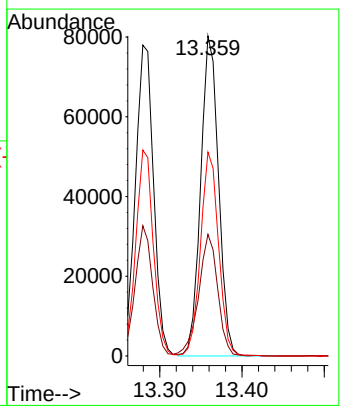
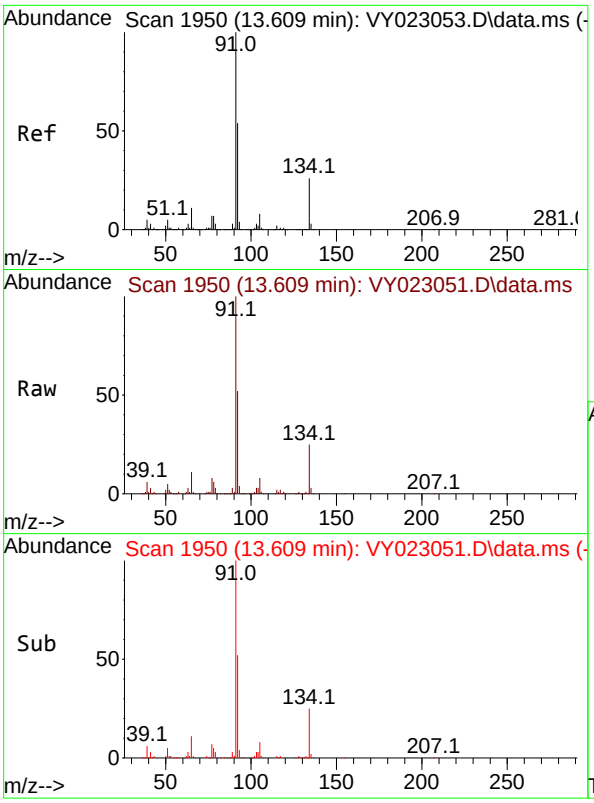


#88
1,4-Dichlorobenzene
Concen: 10.060 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

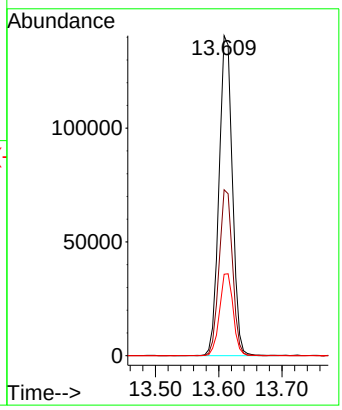




#89
n-Butylbenzene
Concen: 9.737 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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 :
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ClientSampleId :
VSTDICC010

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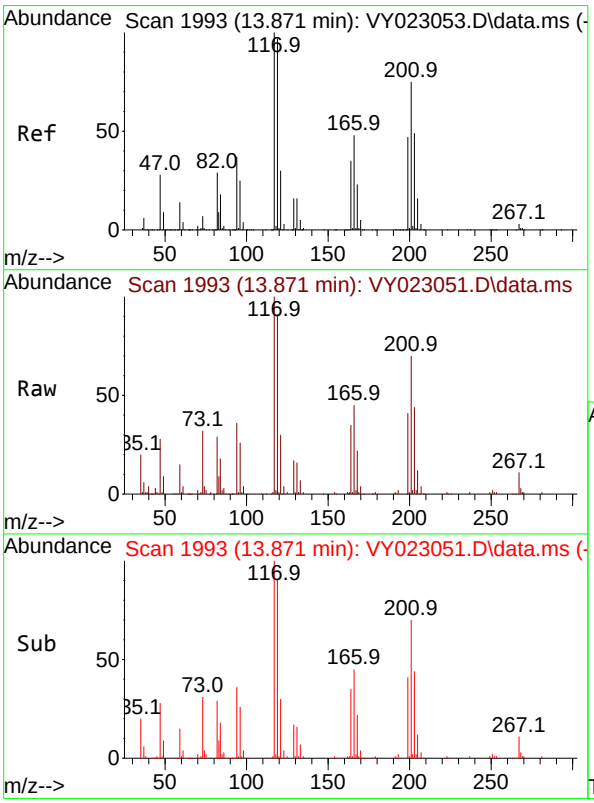
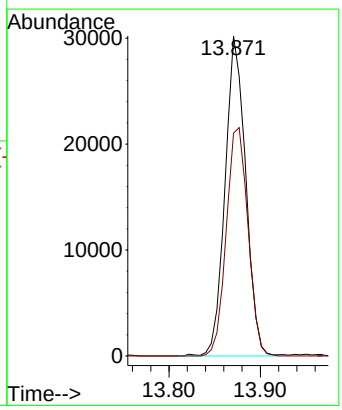
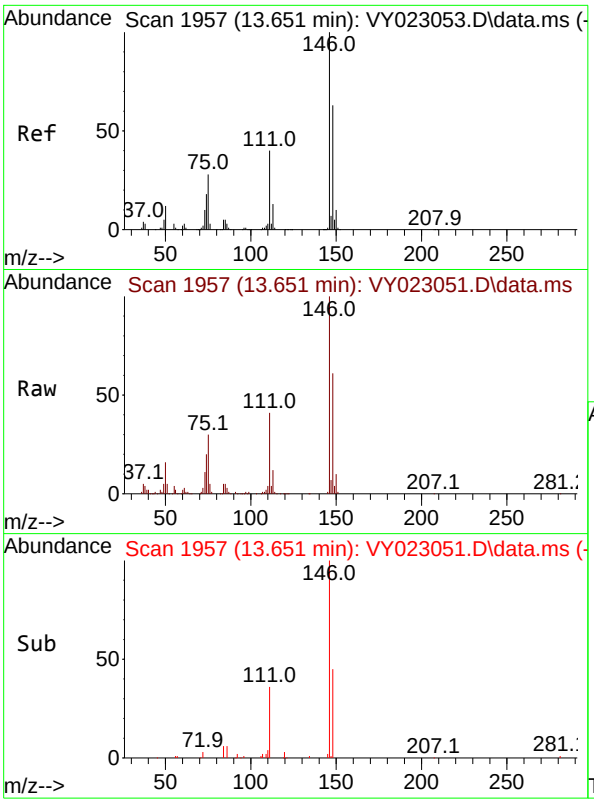


#90
Hexachloroethane
Concen: 10.071 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 47353

Ion	Ratio	Lower	Upper
117	100		
201	75.3	38.4	115.1

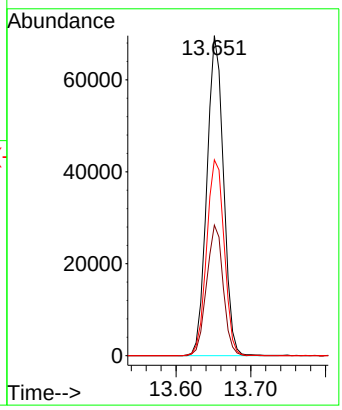




#91
1,2-Dichlorobenzene
Concen: 10.110 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 10765

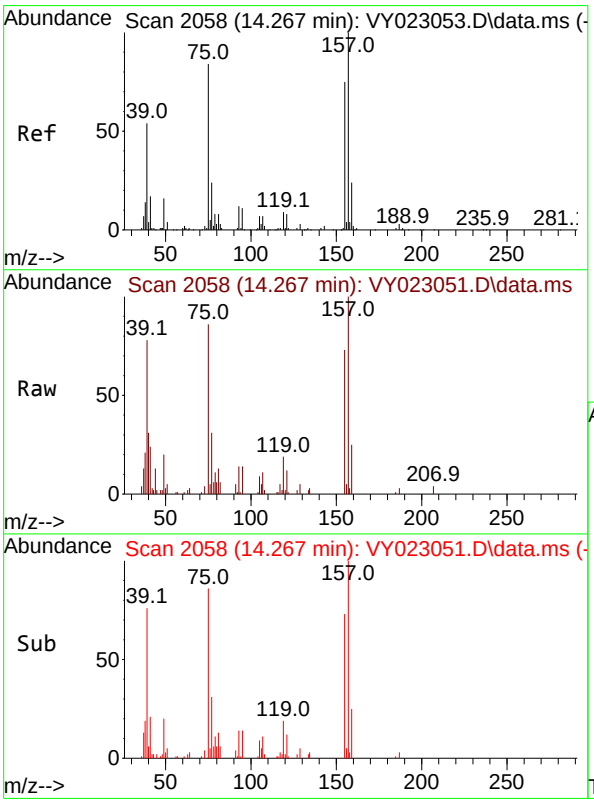
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	64.5	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

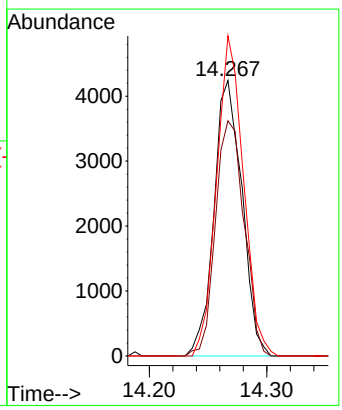
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

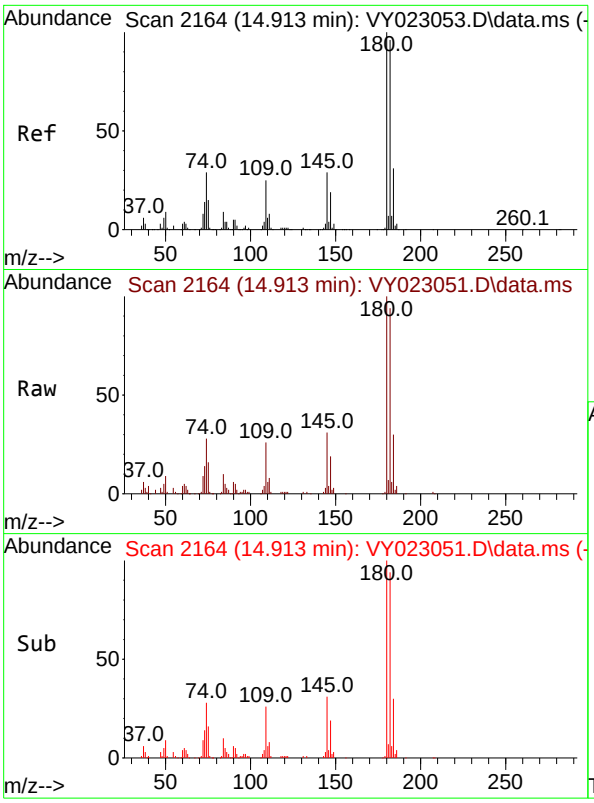


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.250 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

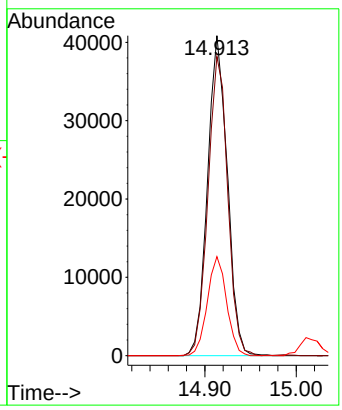




#93
1,2,4-Trichlorobenzene
Concen: 9.739 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:180 Resp: 6132

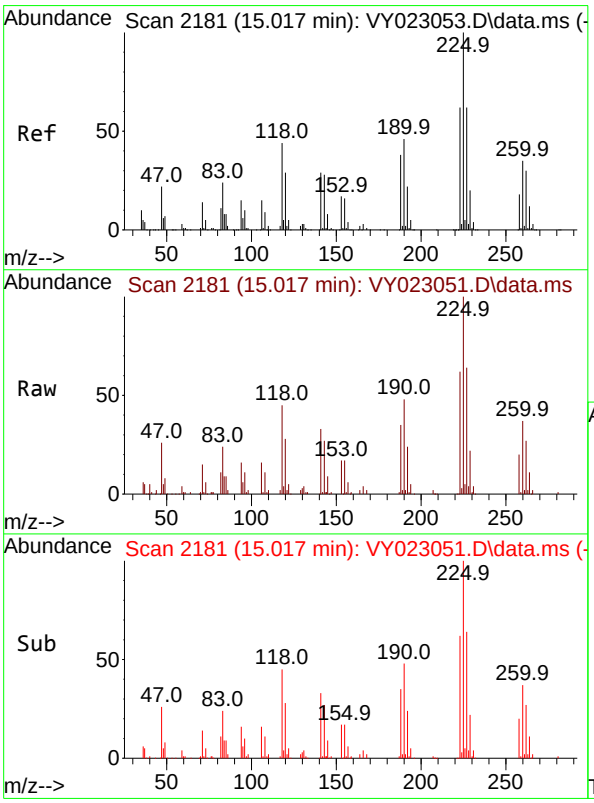
Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.8	140.4
145	30.2	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

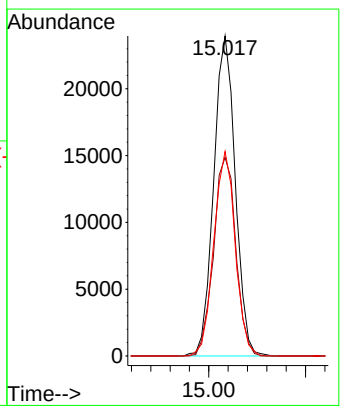
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

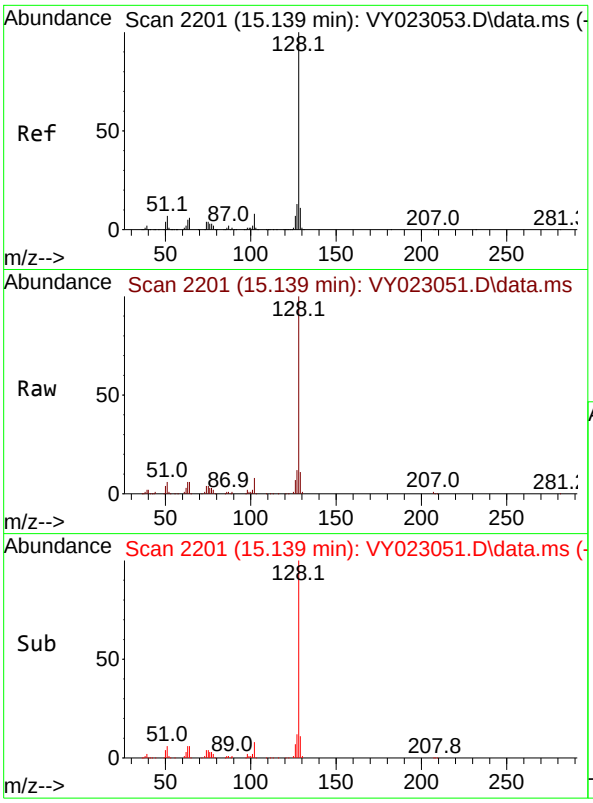


#94
Hexachlorobutadiene
Concen: 10.003 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

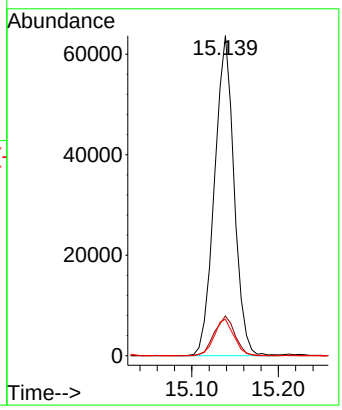




#95
Naphthalene
Concen: 9.293 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:128 Resp: 9978

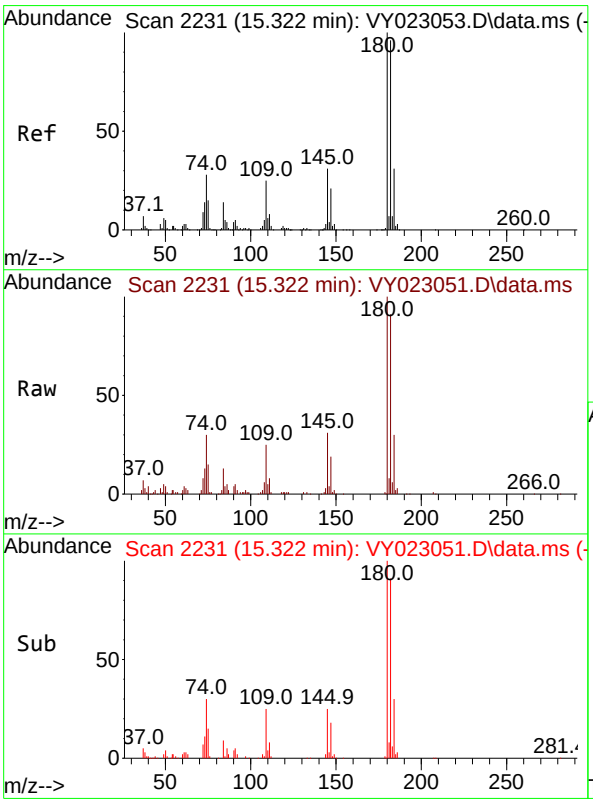
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.6	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

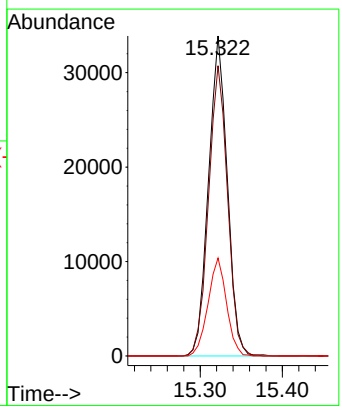
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#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



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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
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Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Quant Time: Aug 13 01:52:25 2025
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Quant Title : SW846 8260
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Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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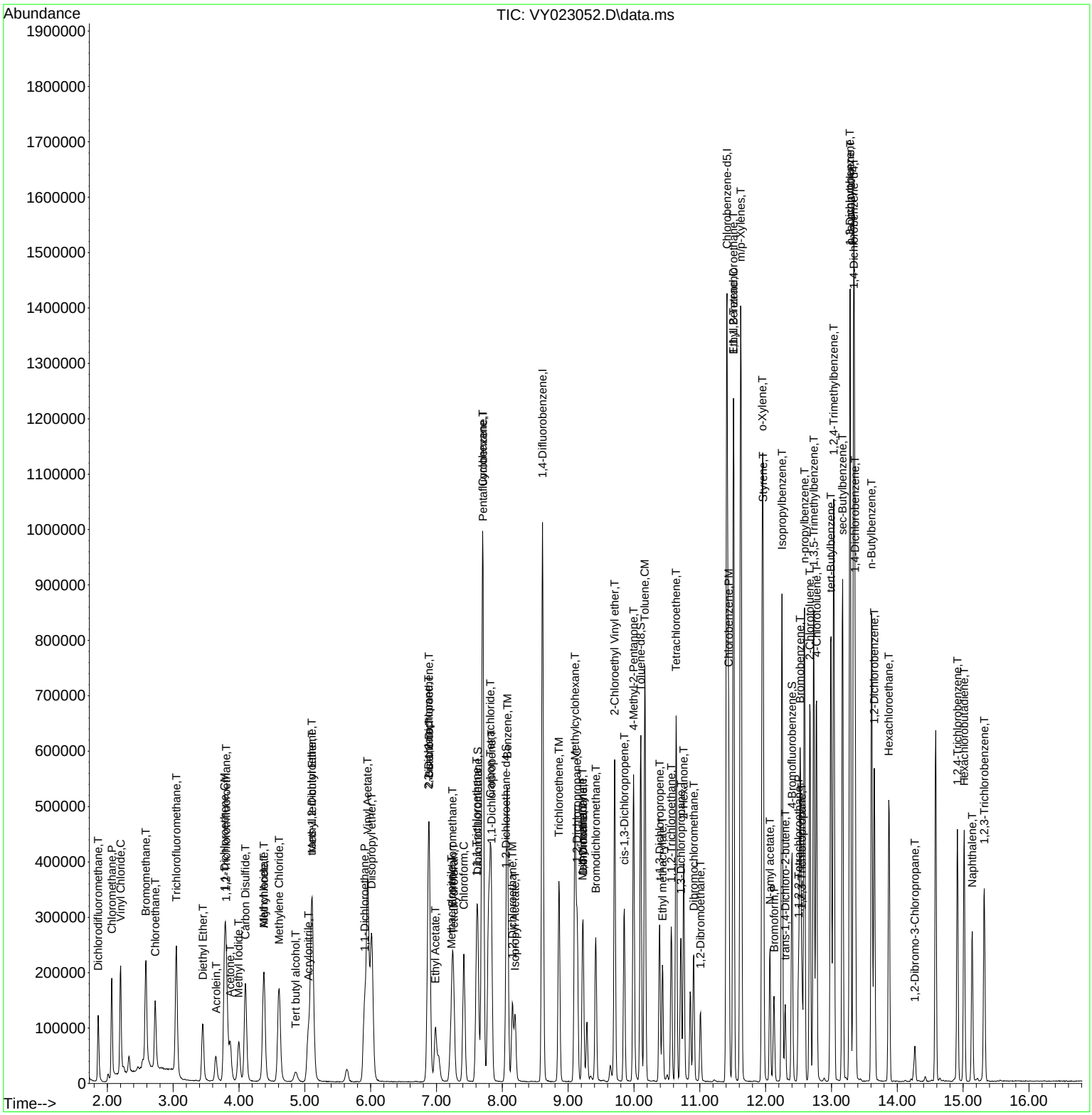
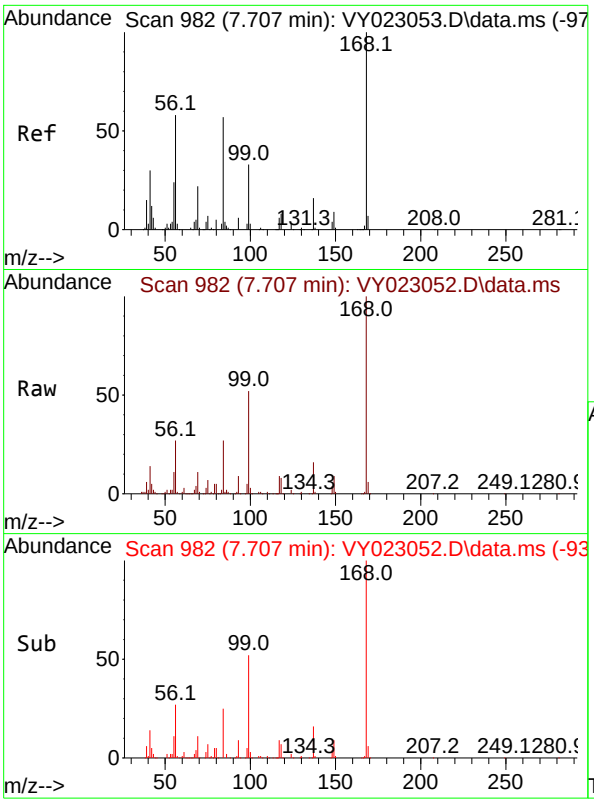
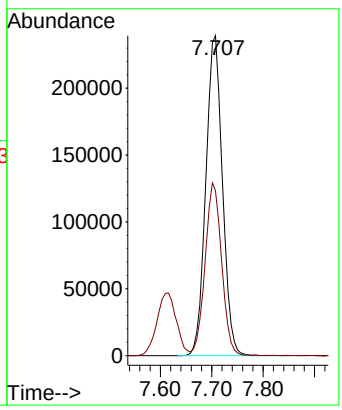




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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
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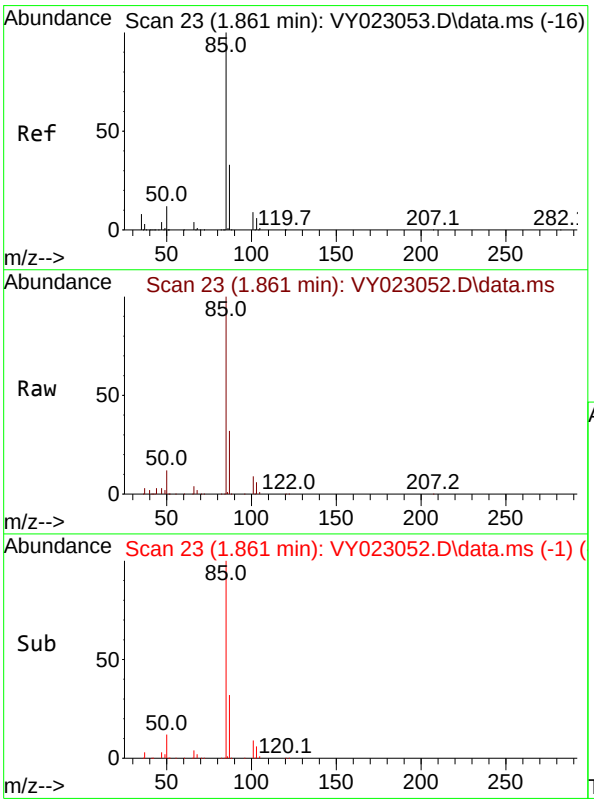
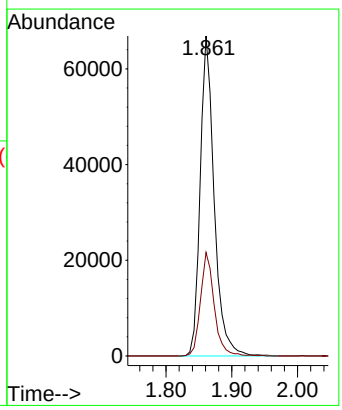
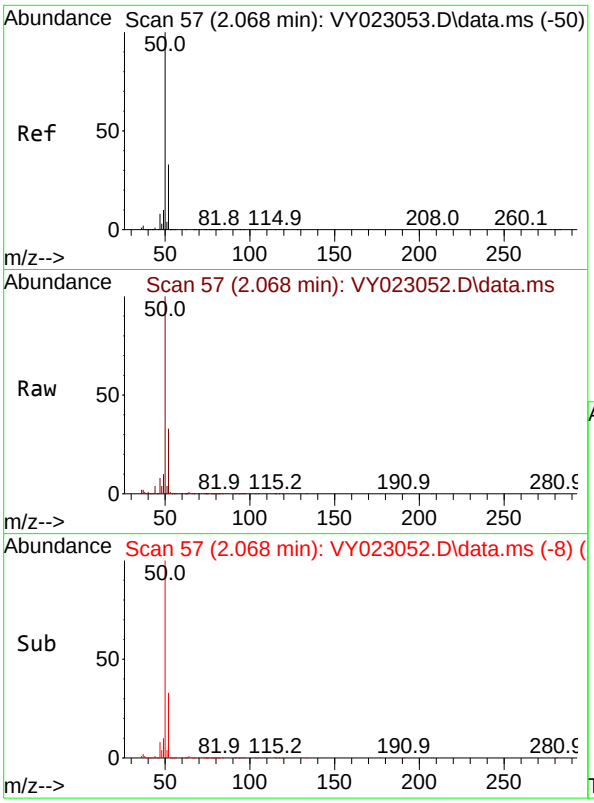


#2
Dichlorodifluoromethane
Concen: 22.537 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 85 Resp: 98926

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8

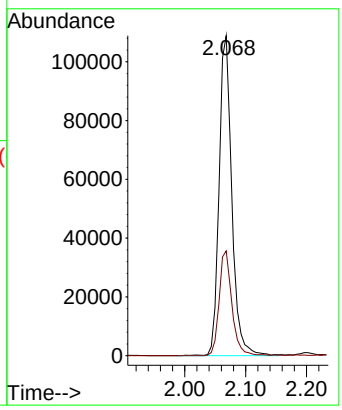




#3
Chloromethane
Concen: 22.268 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 50 Resp: 15831

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.7	40.1



Instrument :
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ClientSampleId :
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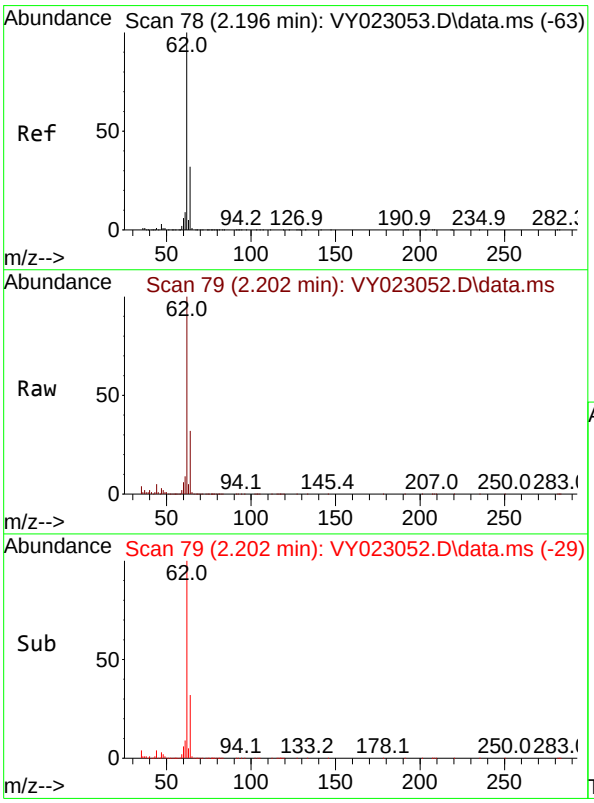
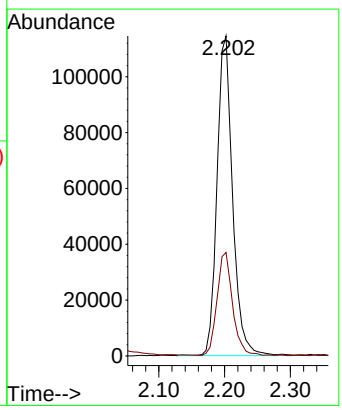
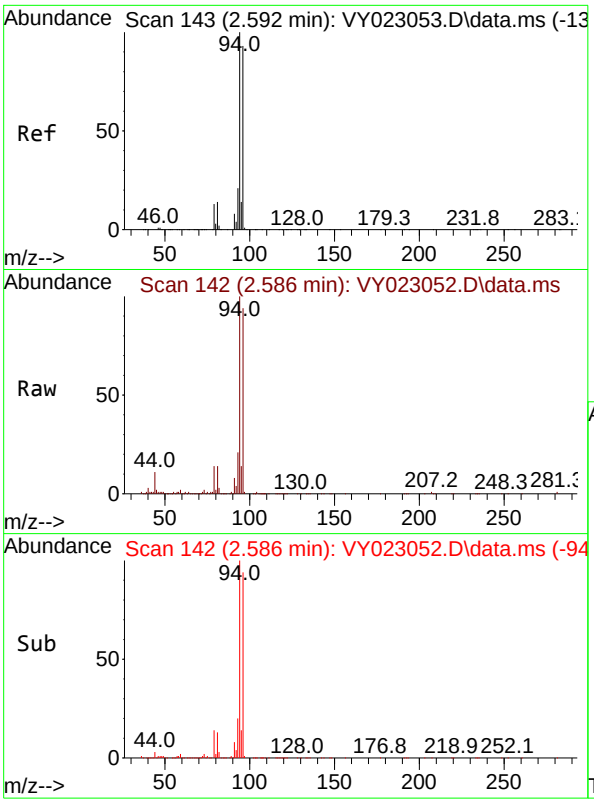


#4
Vinyl Chloride
Concen: 21.427 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 188307

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0

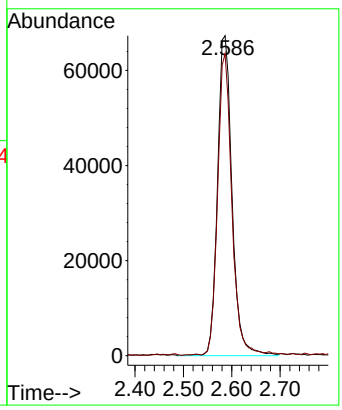




#5
Bromomethane
Concen: 21.410 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 94 Resp: 14051

Ion	Ratio	Lower	Upper
94	100		
96	94.1	74.6	112.0



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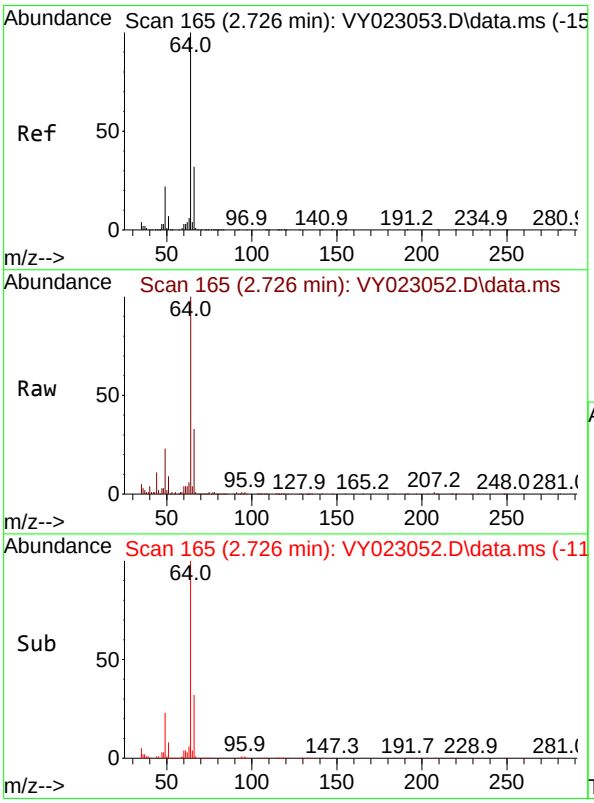
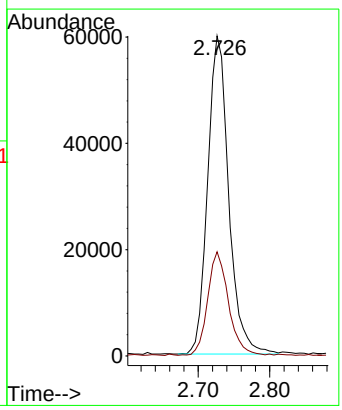
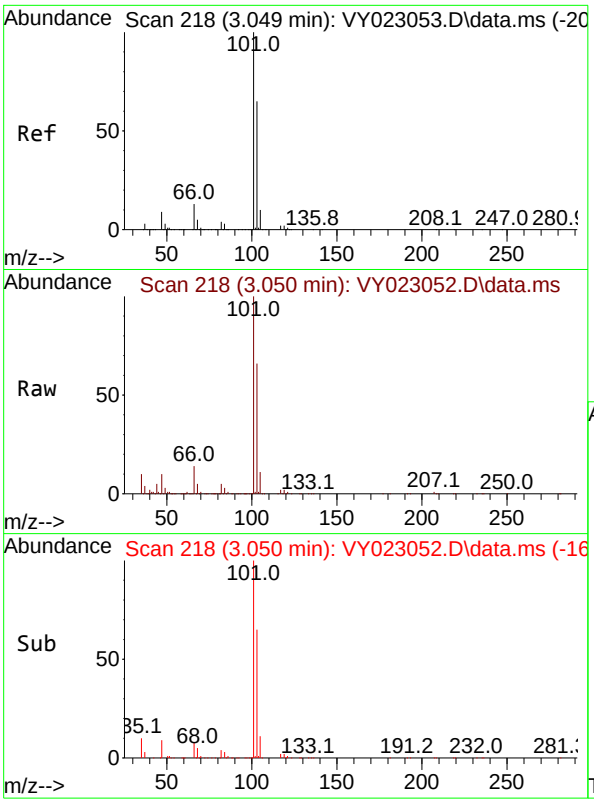


#6
Chloroethane
Concen: 20.934 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 64 Resp: 122310

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.8	38.6

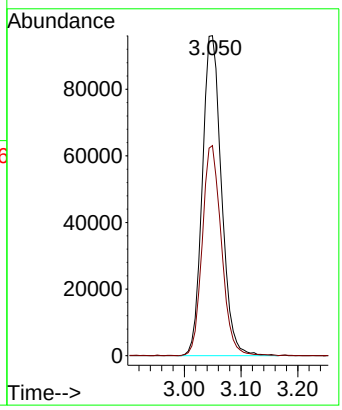




#7
Trichlorofluoromethane
Concen: 21.090 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:101 Resp: 22537

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.9	77.9



Instrument :
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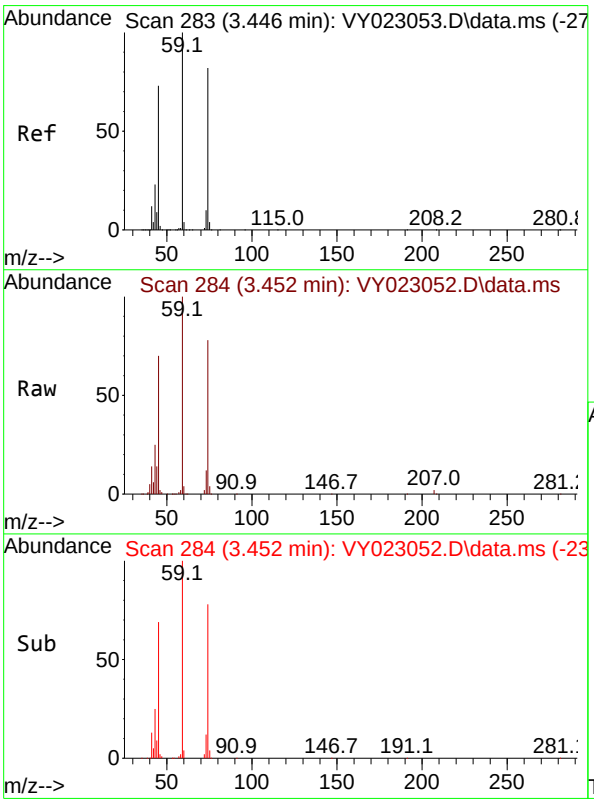
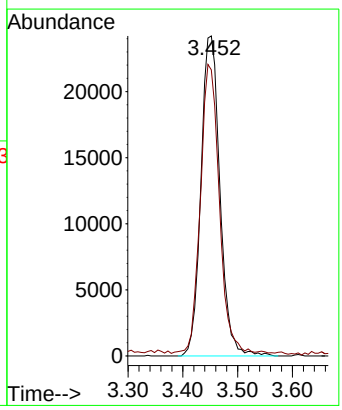
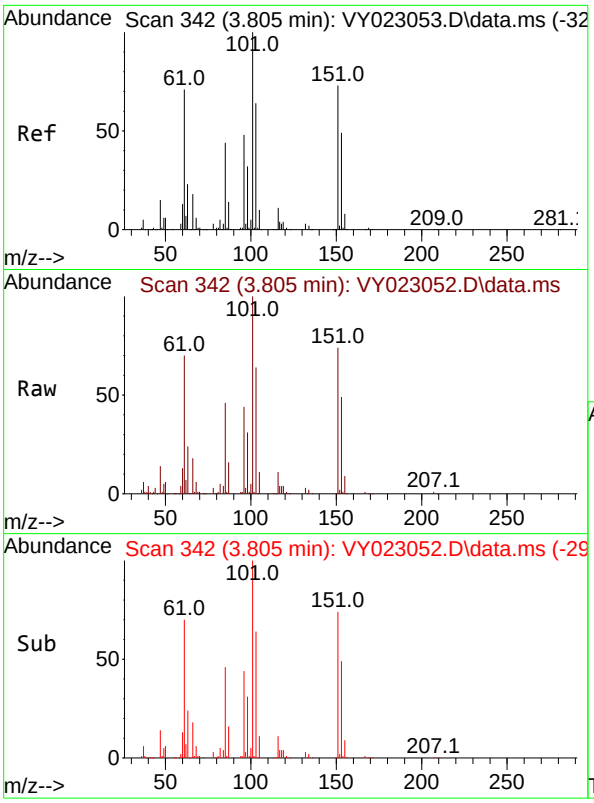


#8
Diethyl Ether
Concen: 20.602 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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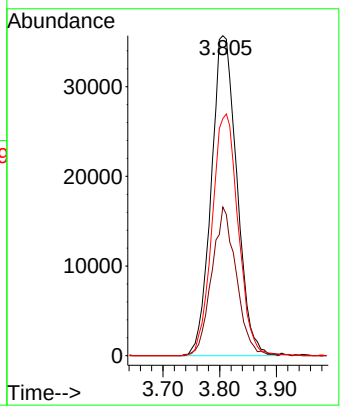
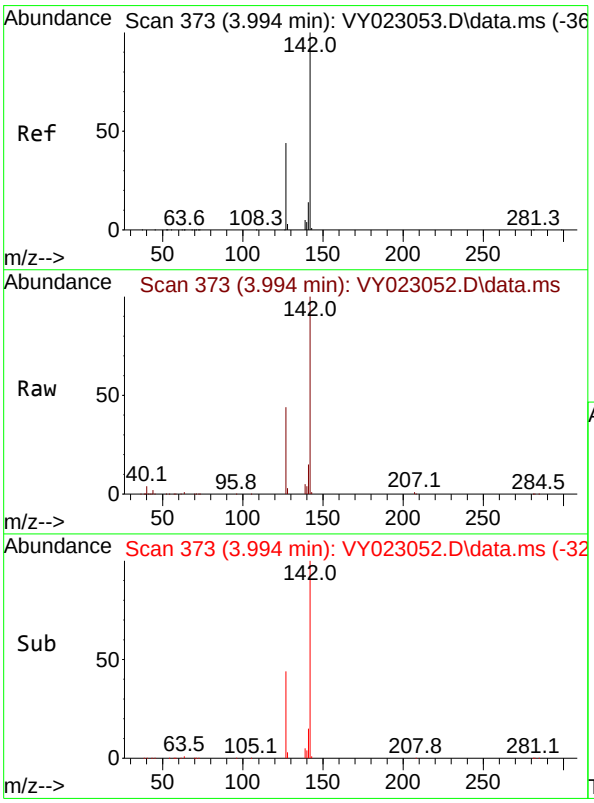
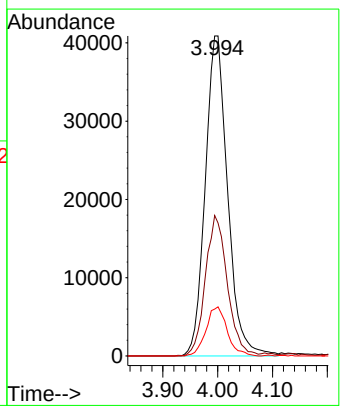


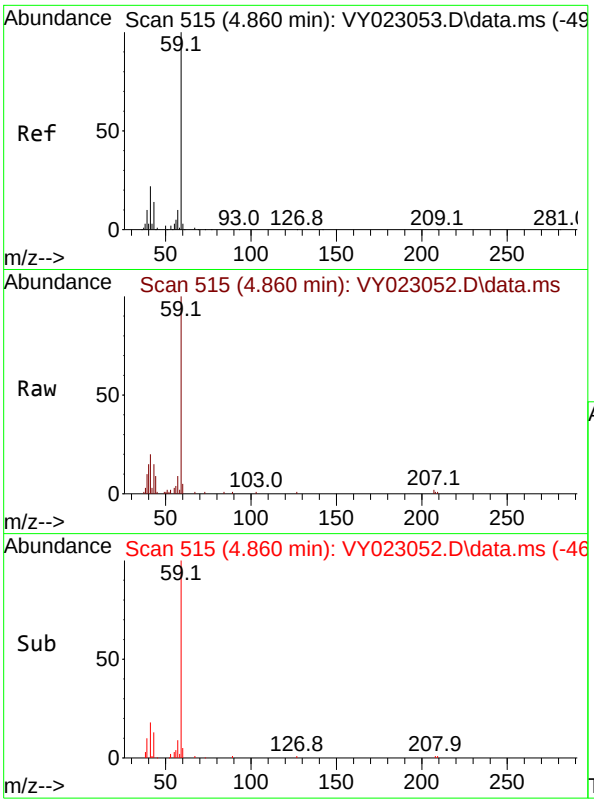


#10
Methyl Iodide
Concen: 20.370 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

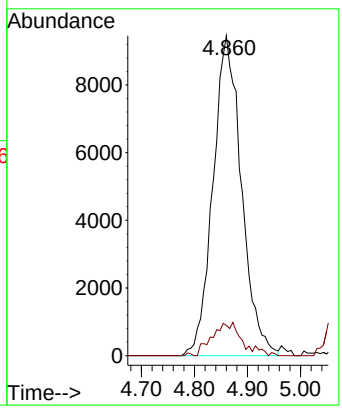




#11
Tert butyl alcohol
Concen: 100.214 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 59 Resp: 3519

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.6	13.0



Instrument :
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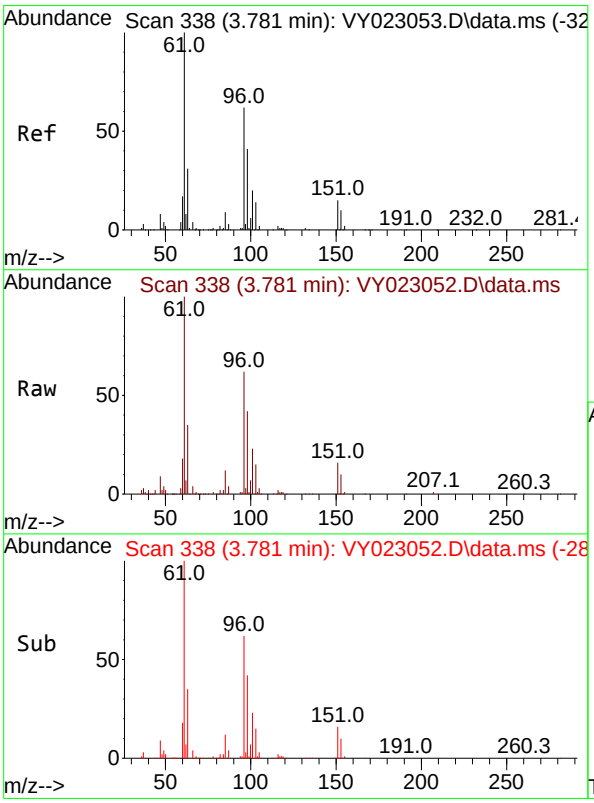
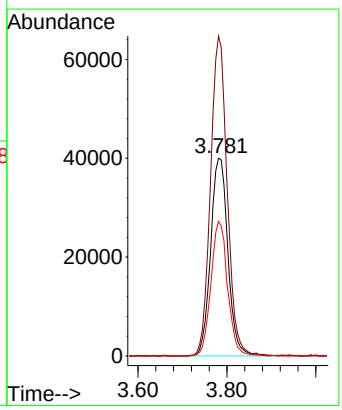
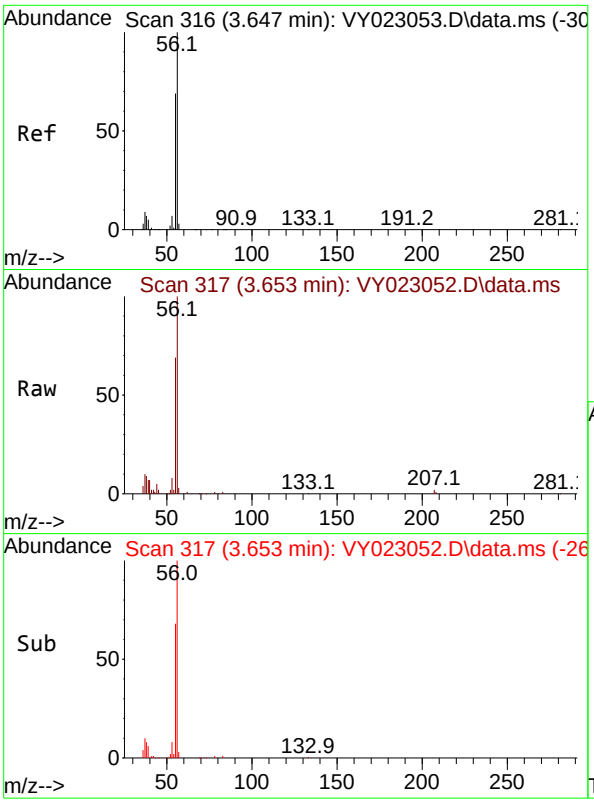


#12
1,1-Dichloroethene
Concen: 20.840 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

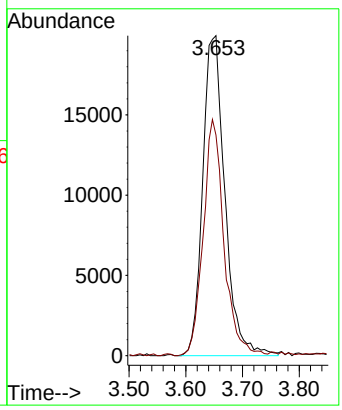




#13
Acrolein
Concen: 105.126 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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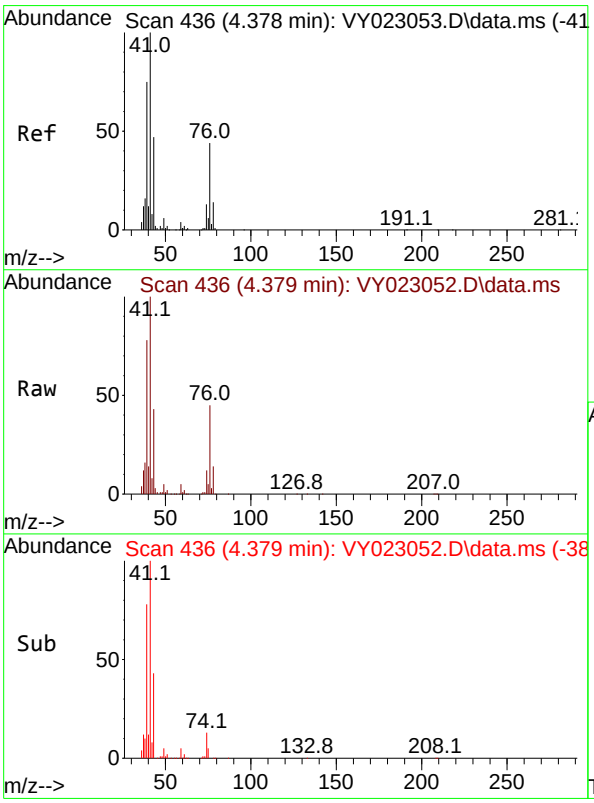
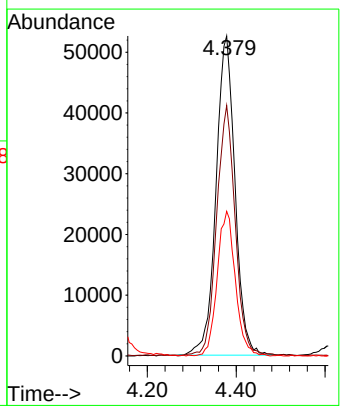
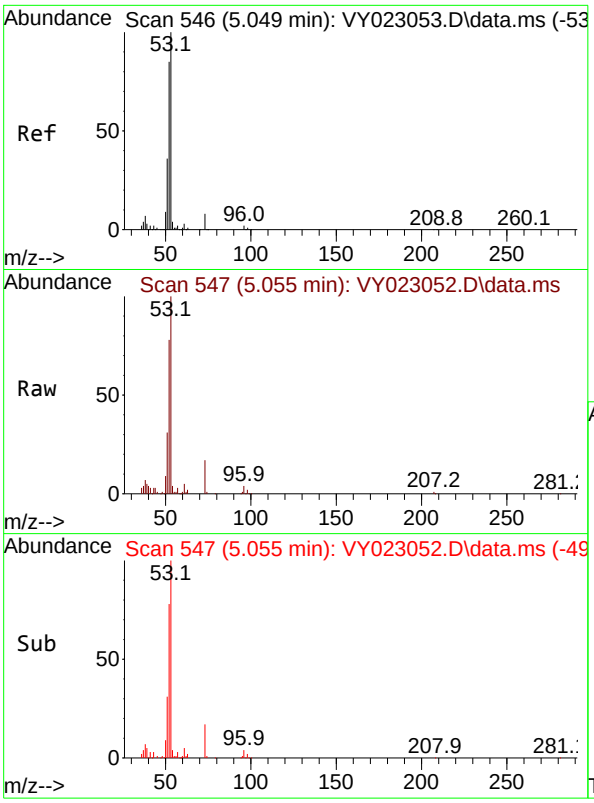


#14
Allyl chloride
Concen: 20.421 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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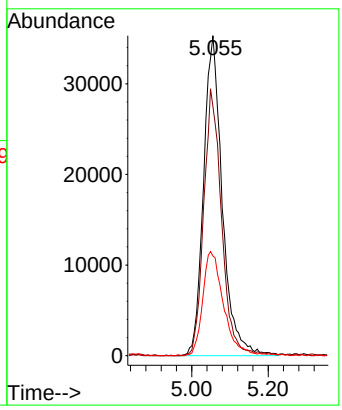
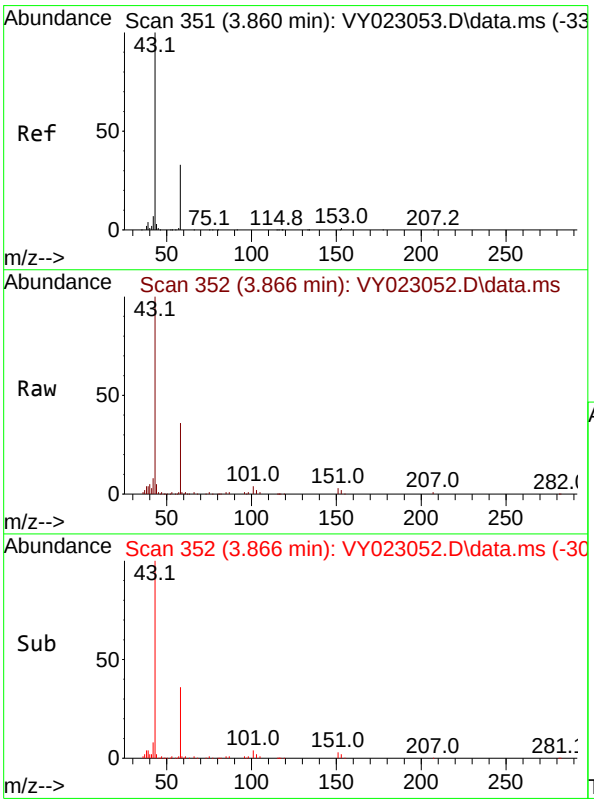
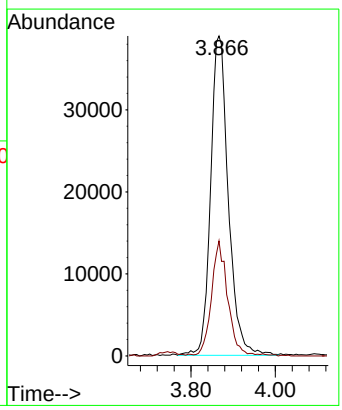


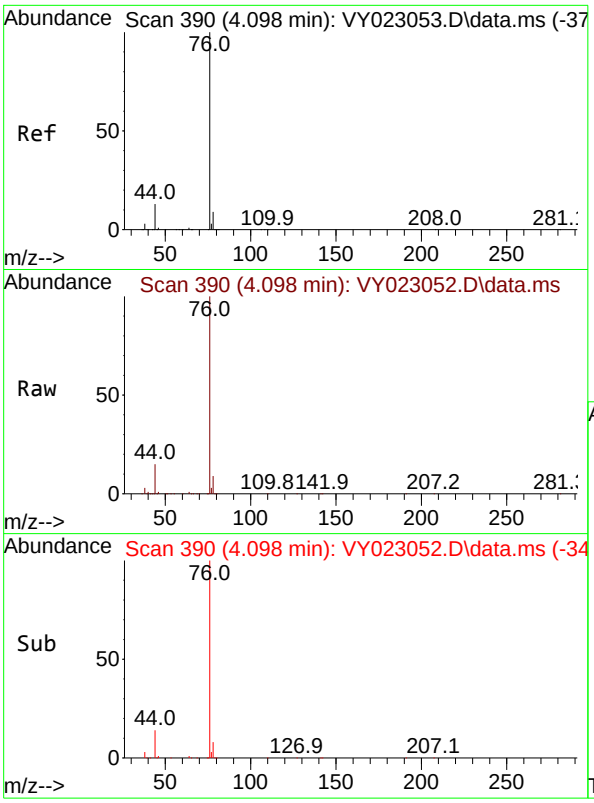


#16
Acetone
Concen: 102.193 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 113468

Ion	Ratio	Lower	Upper
43	100		
58	36.0	27.1	40.7

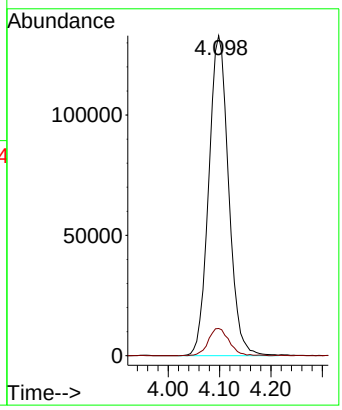




#17
Carbon Disulfide
Concen: 21.157 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 76 Resp: 35748

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.2



Instrument :
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ClientSampleId :
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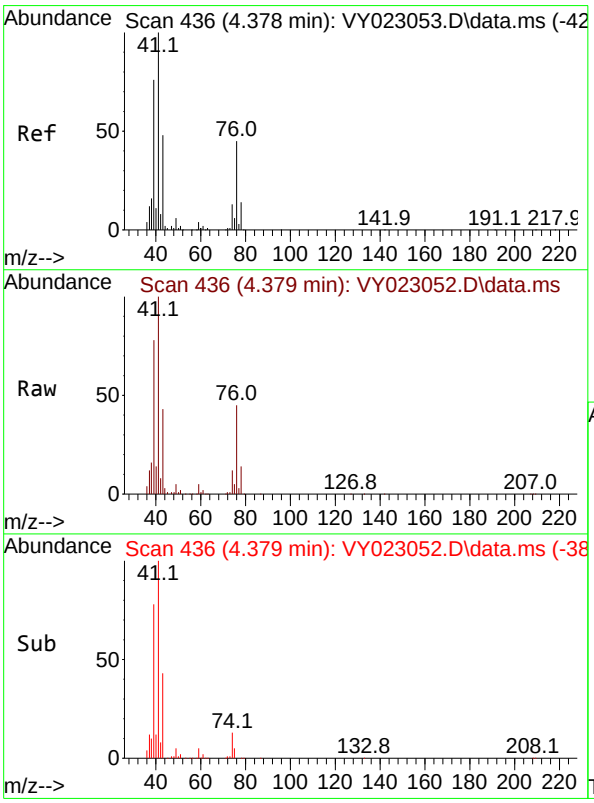
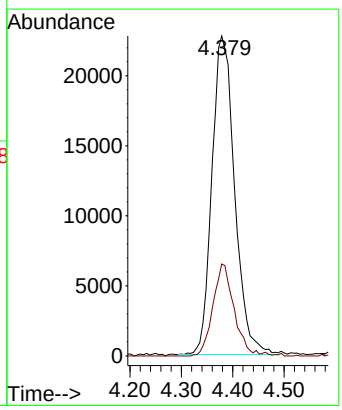
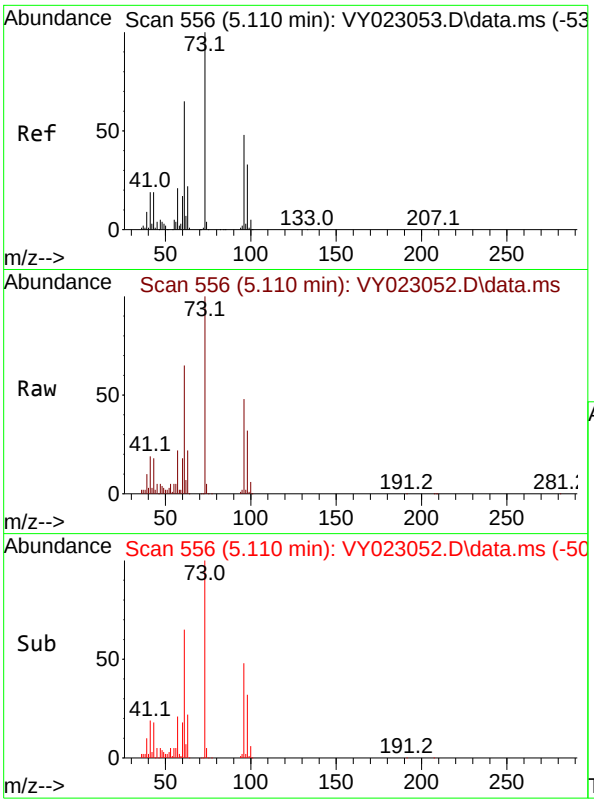


#18
Methyl Acetate
Concen: 21.141 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 69853

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.2	31.8

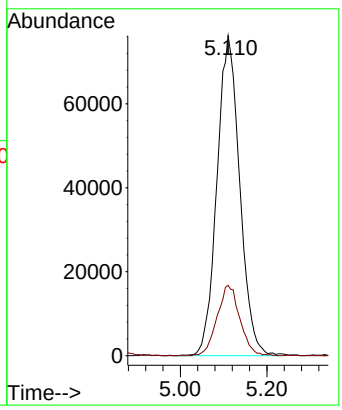




#19
Methyl tert-butyl Ether
Concen: 20.767 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 73 Resp: 27886

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7



Instrument :
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ClientSampleId :
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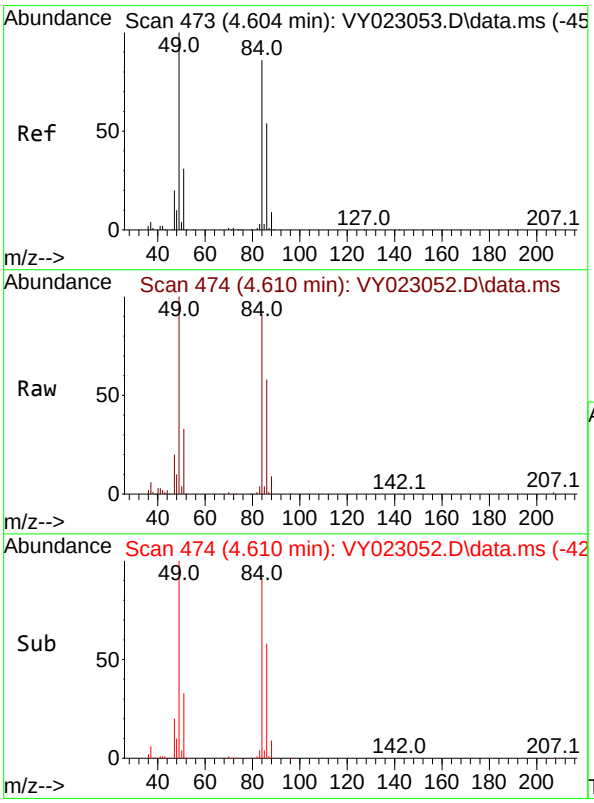
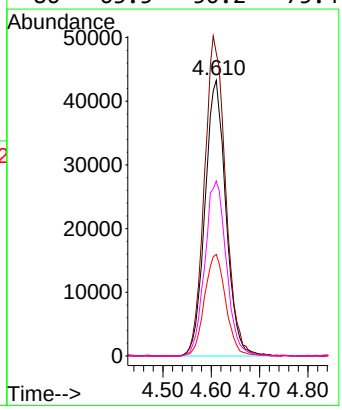
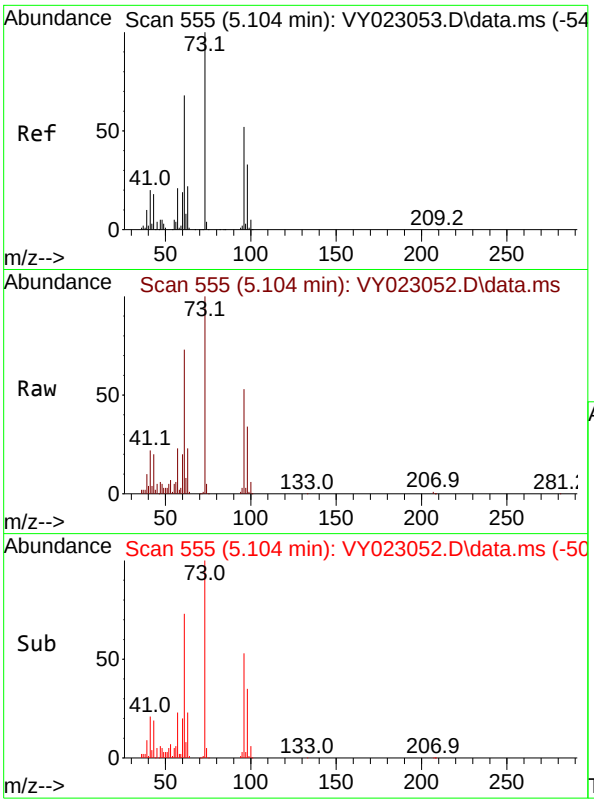


#20
Methylene Chloride
Concen: 21.069 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

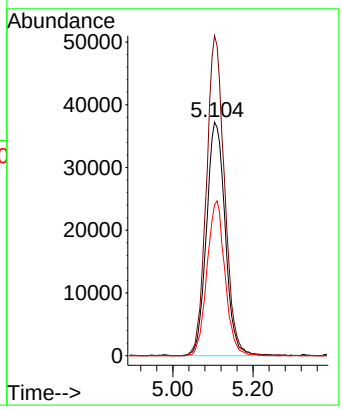




#21
trans-1,2-Dichloroethene
Concen: 20.661 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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ClientSampleId :
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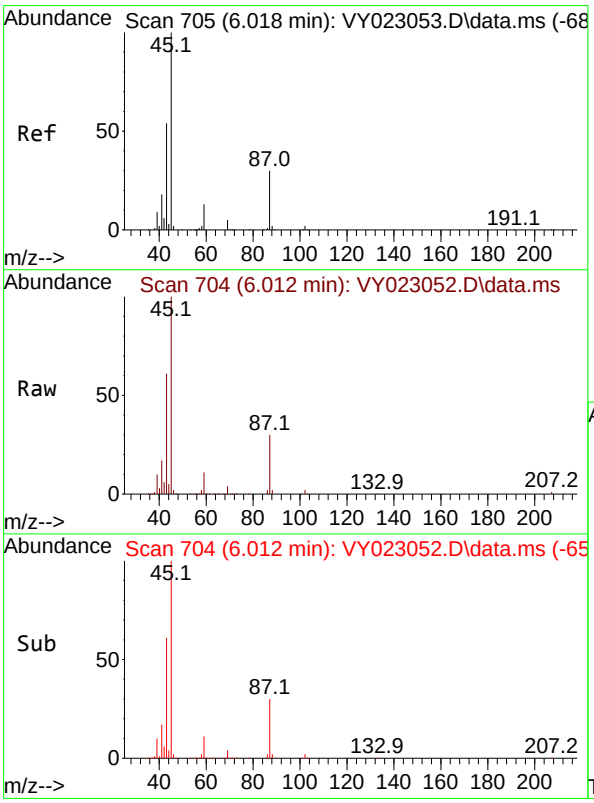
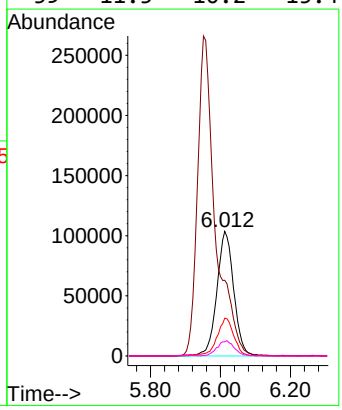
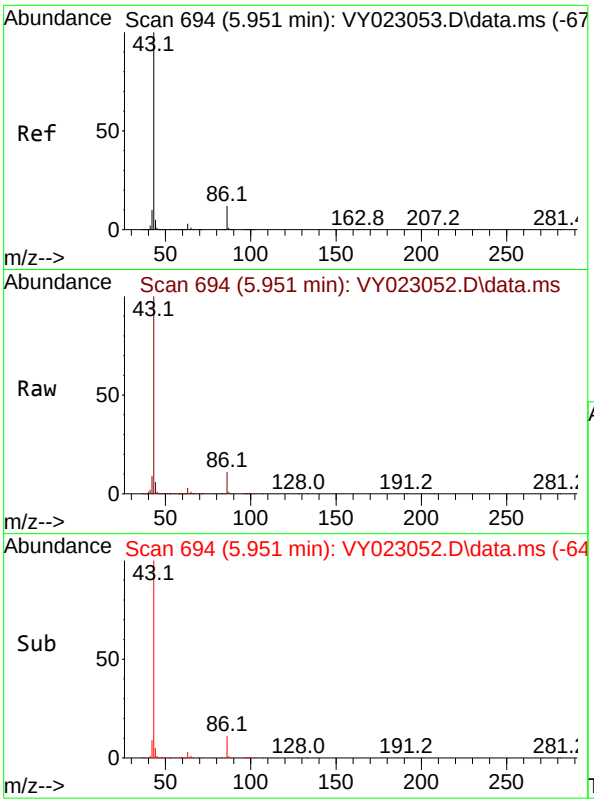


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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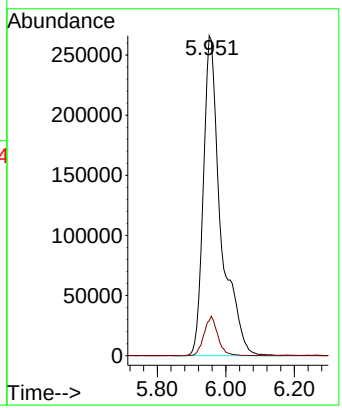
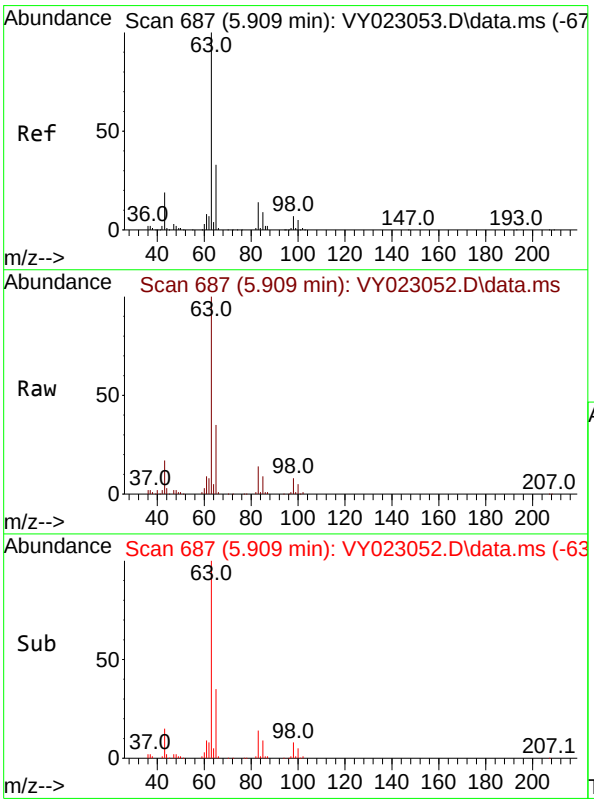
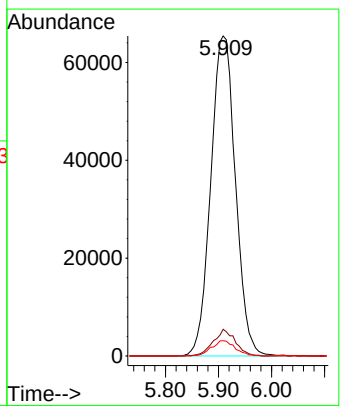


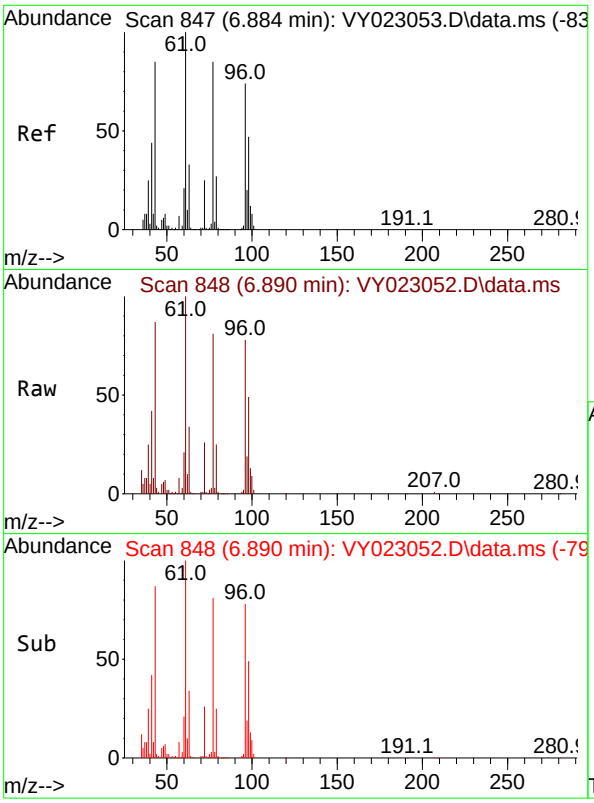


#24
1,1-Dichloroethane
Concen: 20.884 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

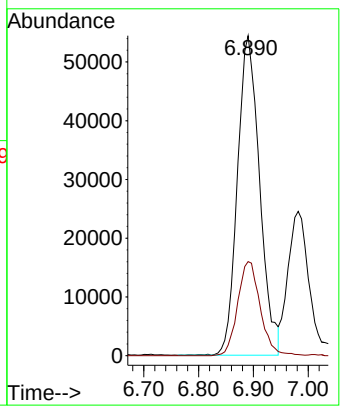




#25
2-Butanone
Concen: 101.559 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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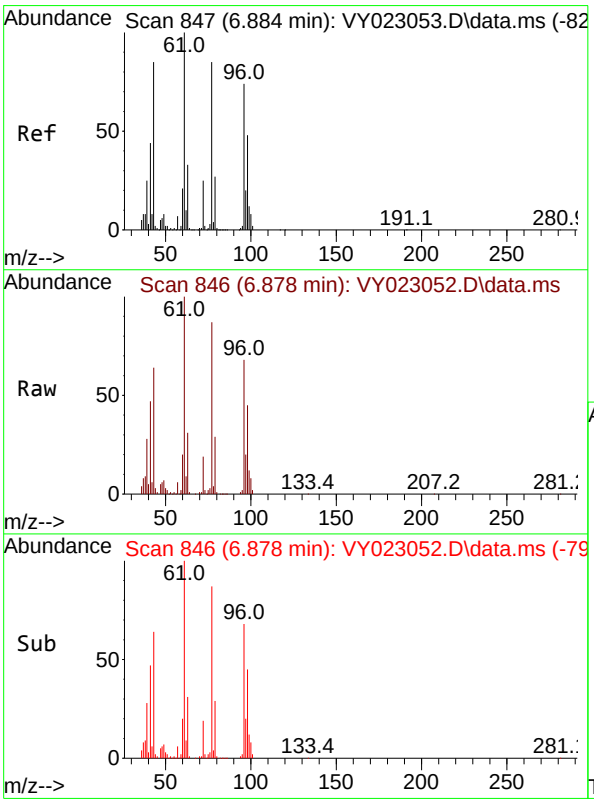
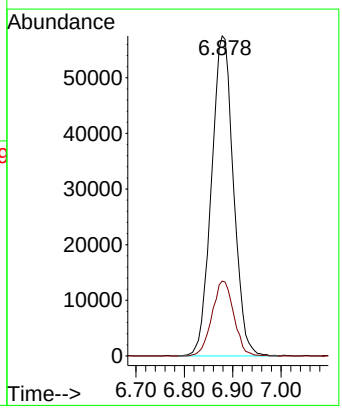
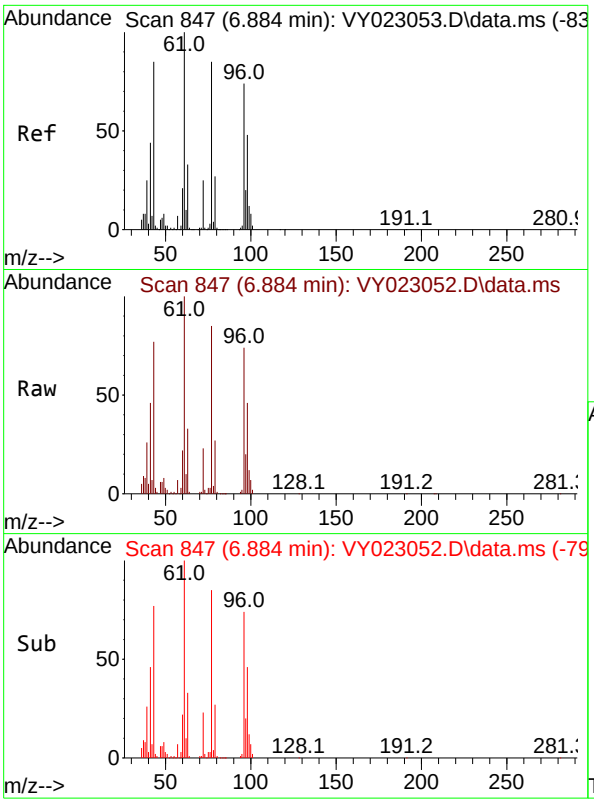


#26
2,2-Dichloropropane
Concen: 20.767 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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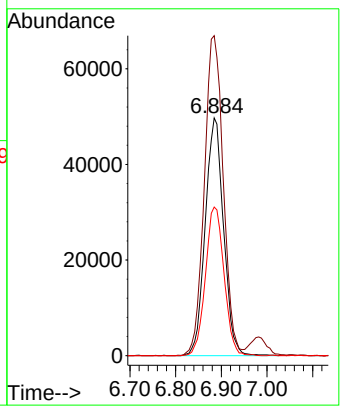
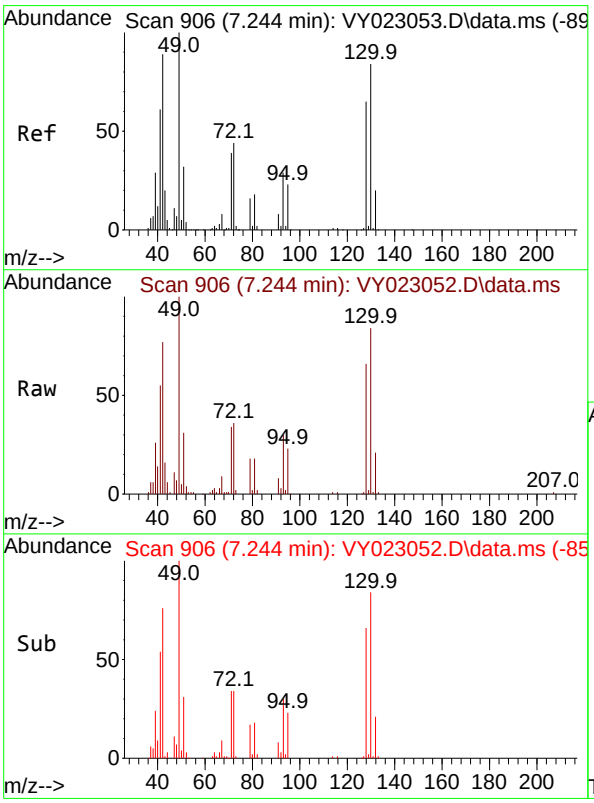
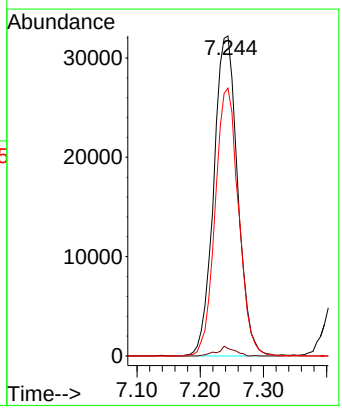


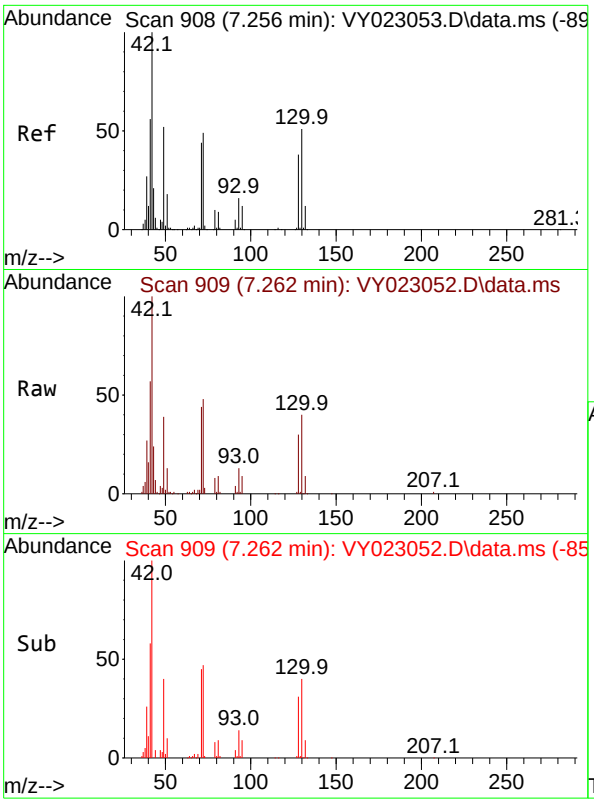


#28
Bromochloromethane
Concen: 21.035 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

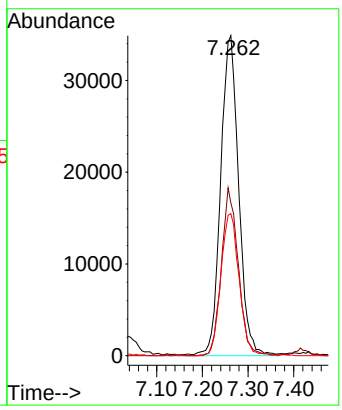




#29
Tetrahydrofuran
Concen: 102.341 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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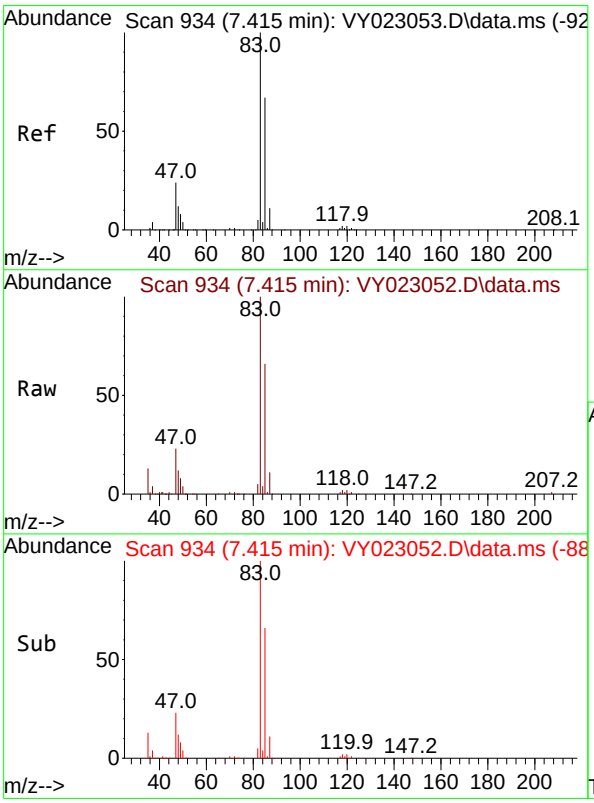
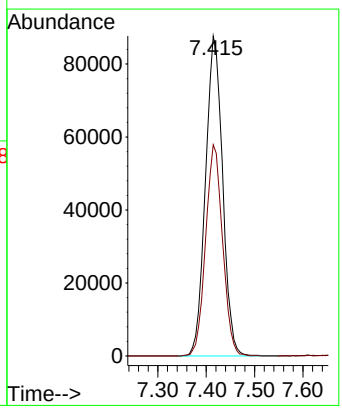
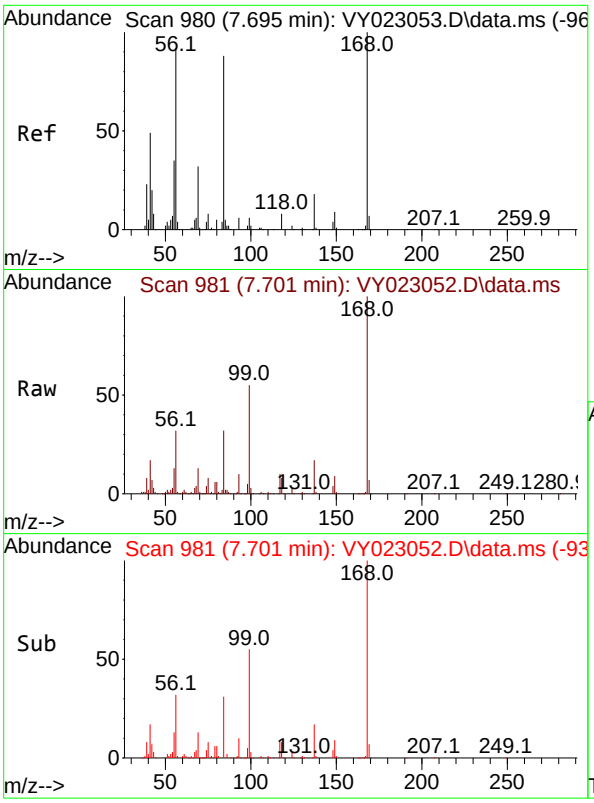


#30
Chloroform
Concen: 20.635 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 215585

Ion	Ratio	Lower	Upper
83	100		
85	66.0	53.8	80.8

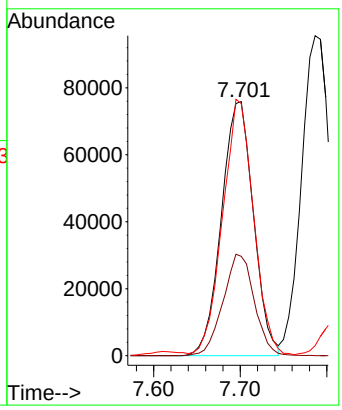




#31
Cyclohexane
Concen: 20.393 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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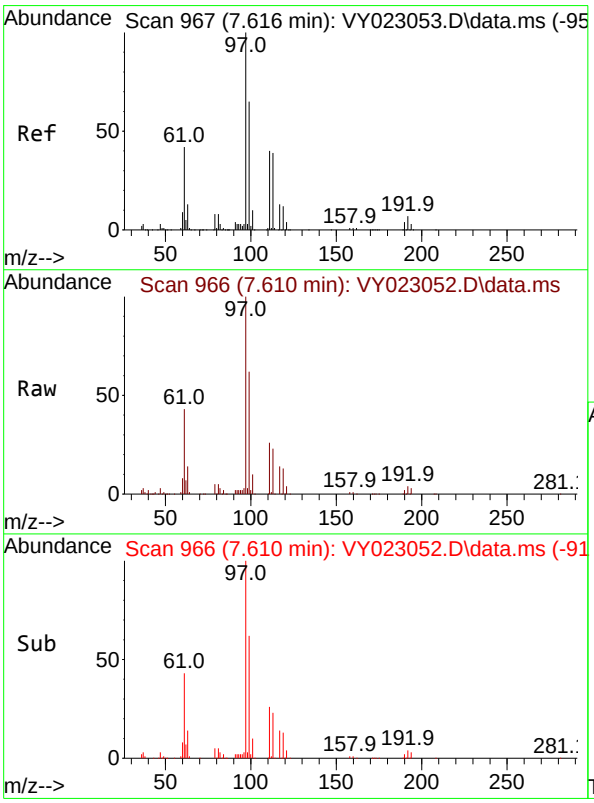
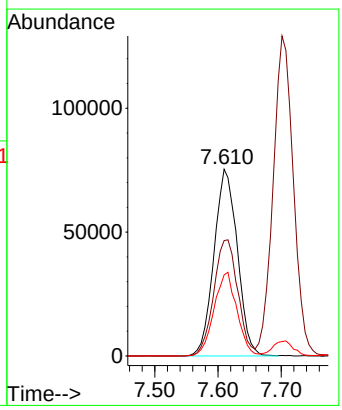
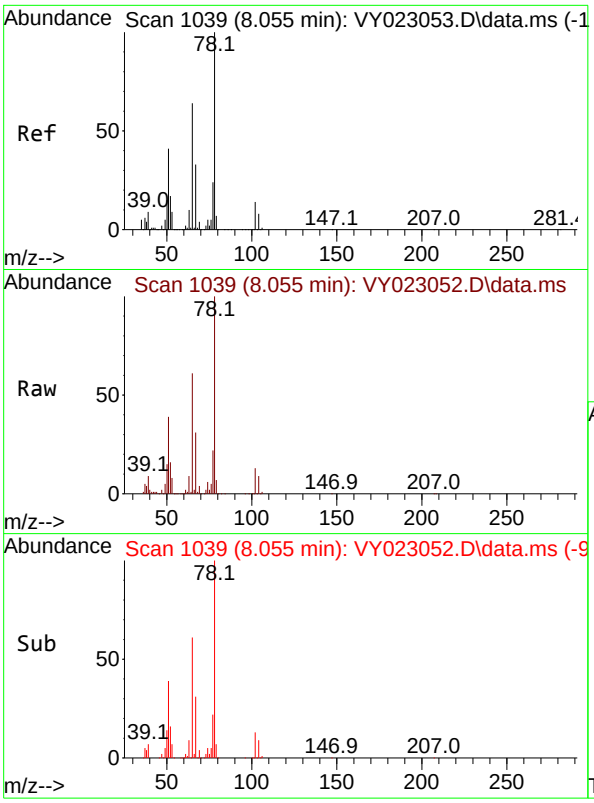


#32
1,1,1-Trichloroethane
Concen: 20.848 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

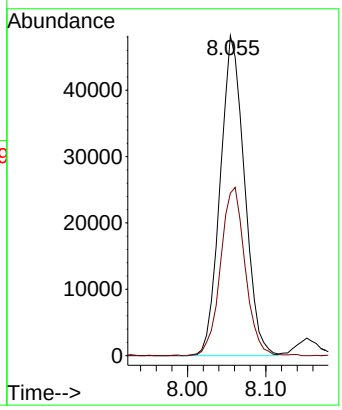




#33
1,2-Dichloroethane-d4
Concen: 20.244 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 65 Resp: 10375

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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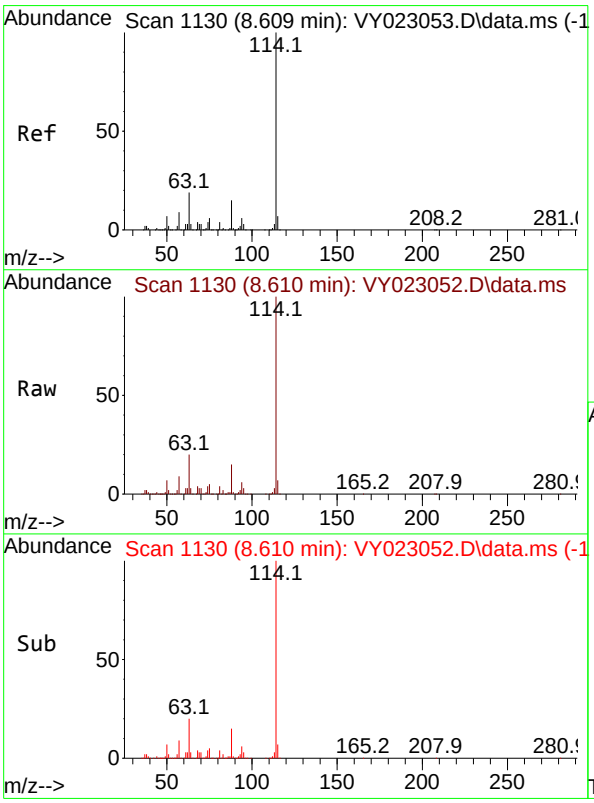
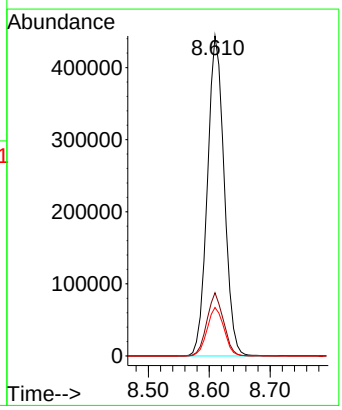
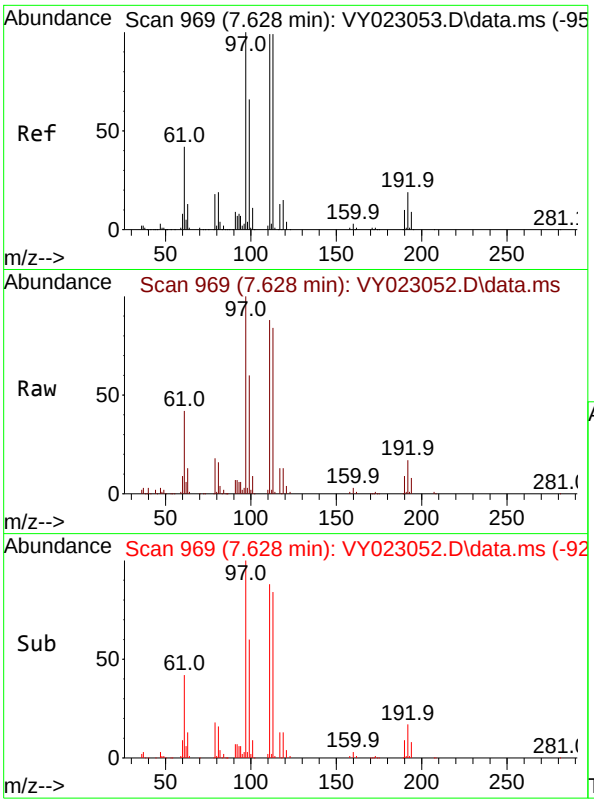


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

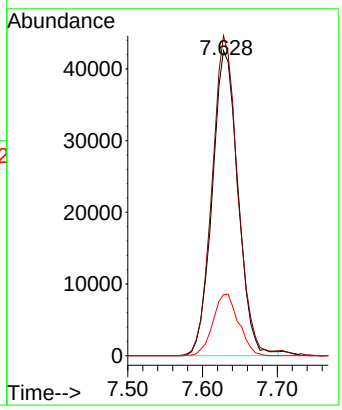




#35
Dibromofluoromethane
Concen: 20.093 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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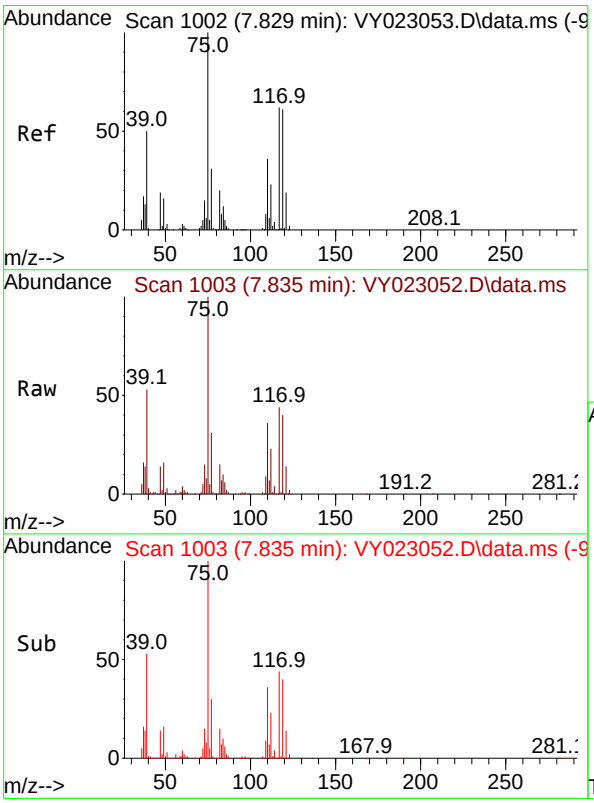
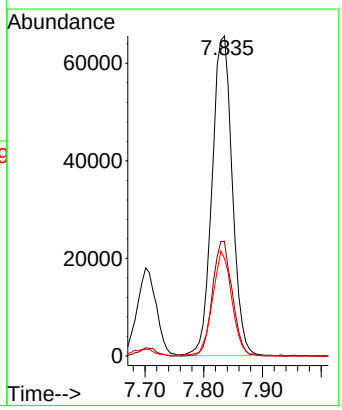
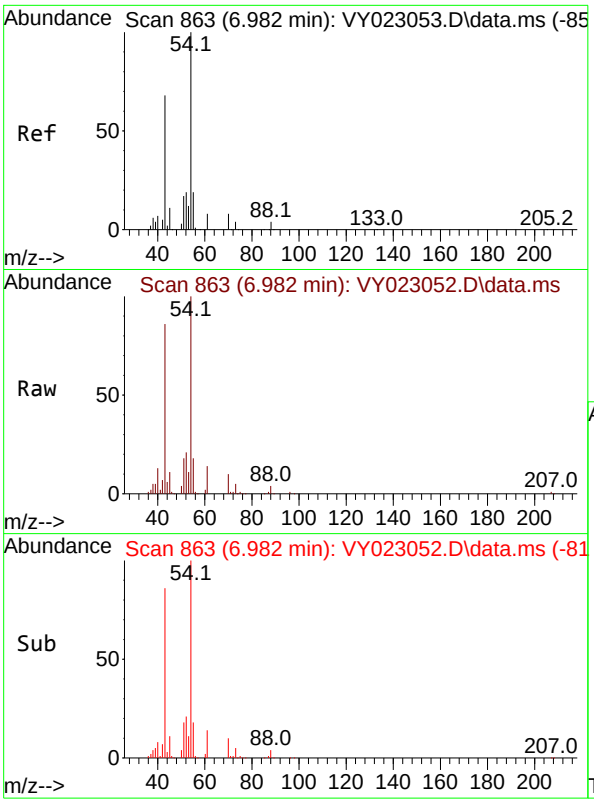


#36
1,1-Dichloropropene
Concen: 20.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

Manual Integrations
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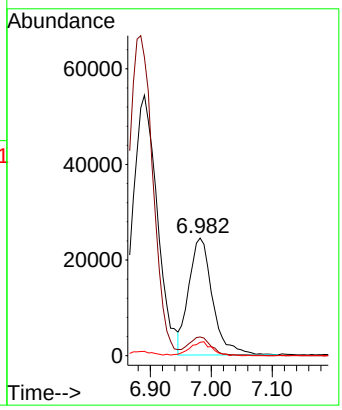
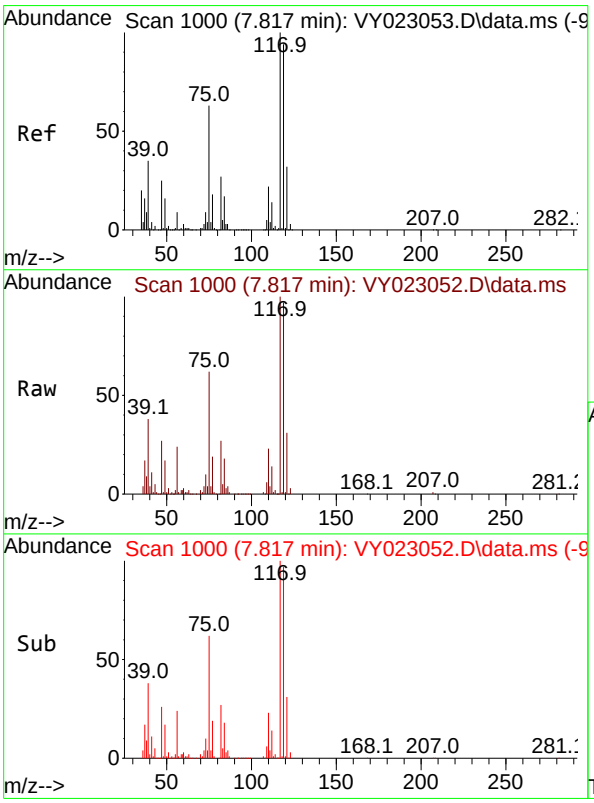
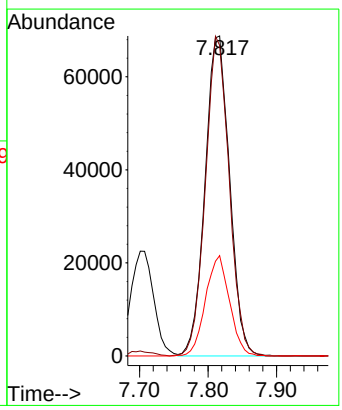


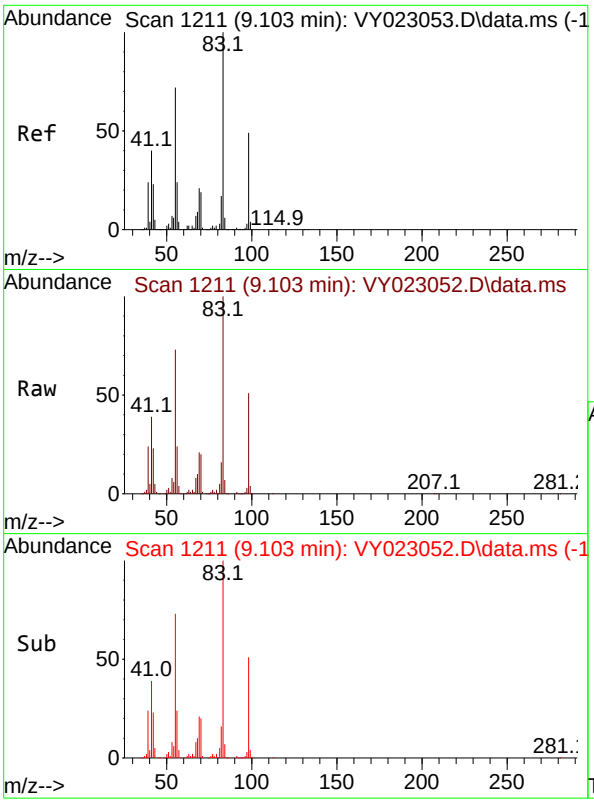


#38
Carbon Tetrachloride
Concen: 20.897 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 APPROVED

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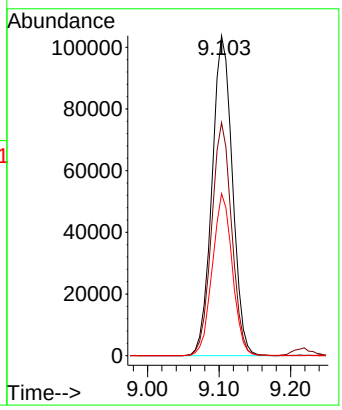
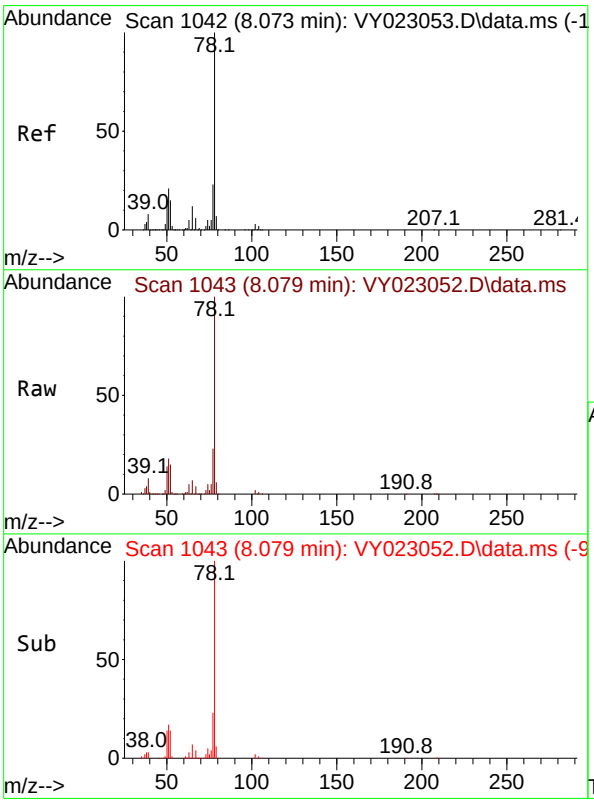
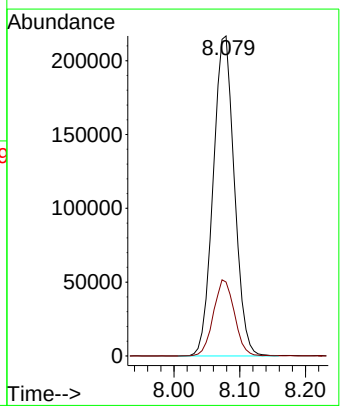


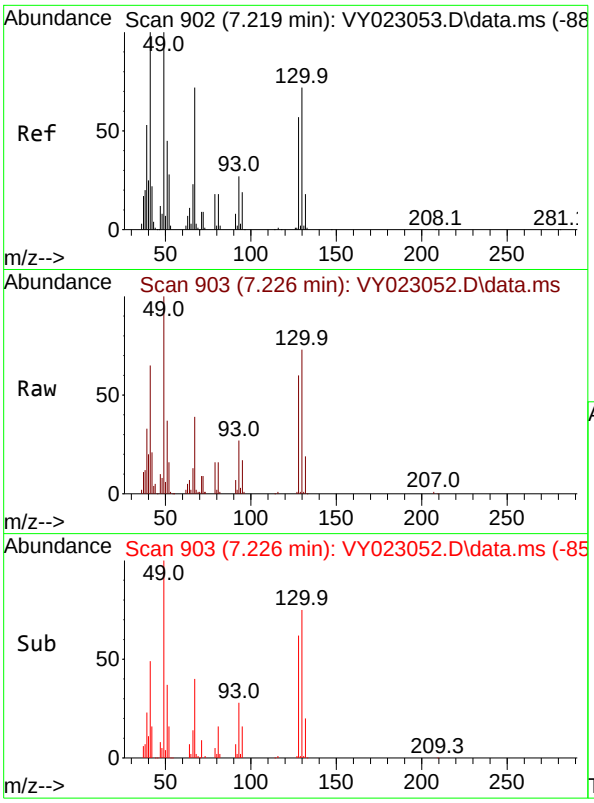


#40
Benzene
Concen: 20.871 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 78 Resp: 485631

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0

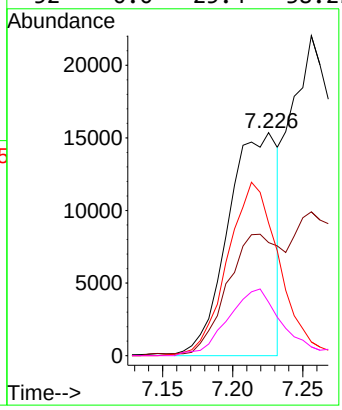




#41
Methacrylonitrile
Concen: 20.623 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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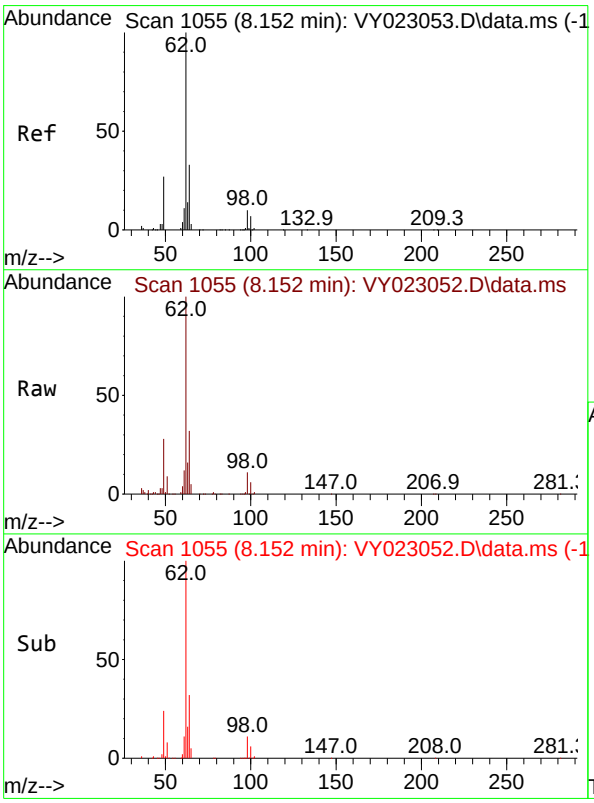
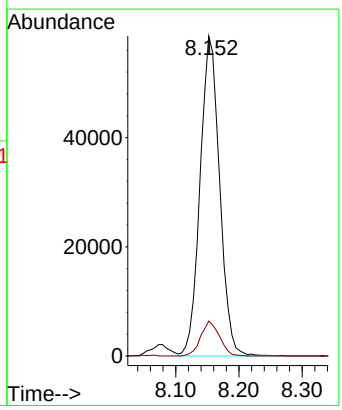
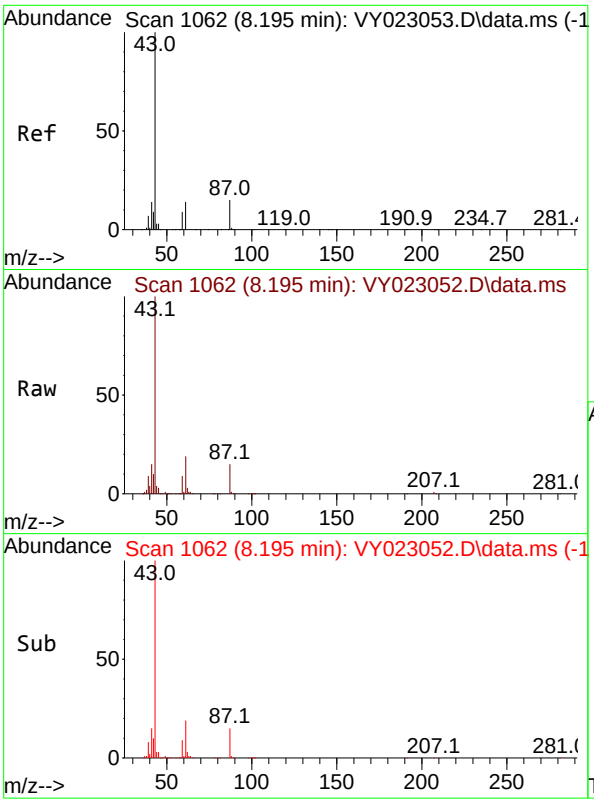


#42
1,2-Dichloroethane
Concen: 20.839 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 126111

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6

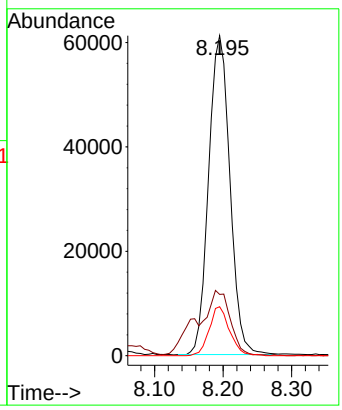




#43
Isopropyl Acetate
Concen: 20.571 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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ClientSampleId :
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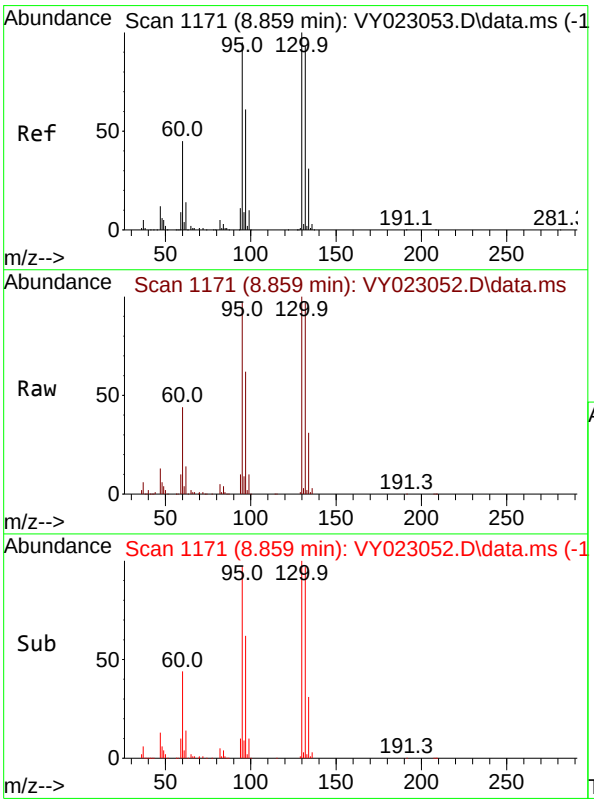
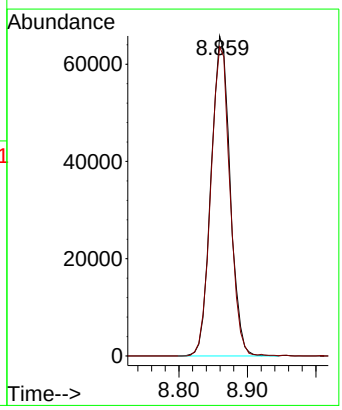
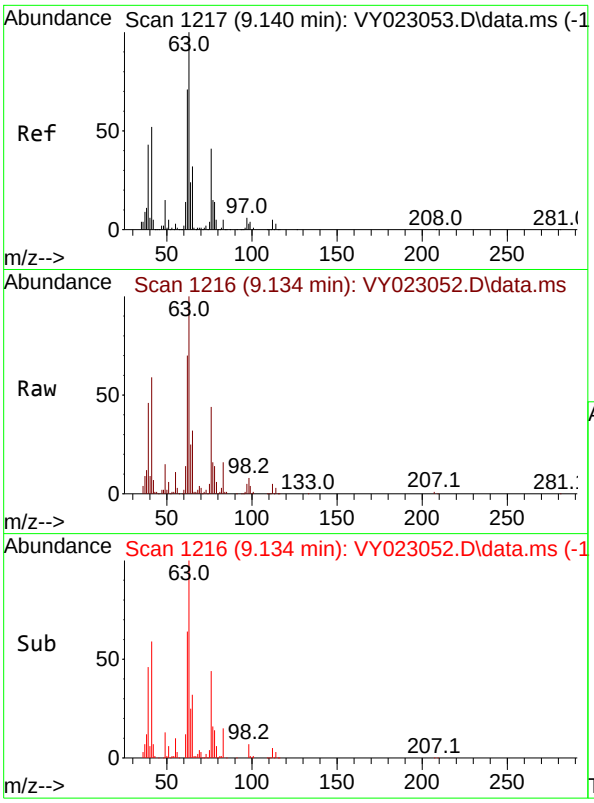


#44
Trichloroethene
Concen: 21.083 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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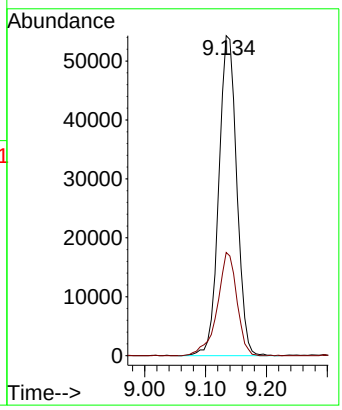
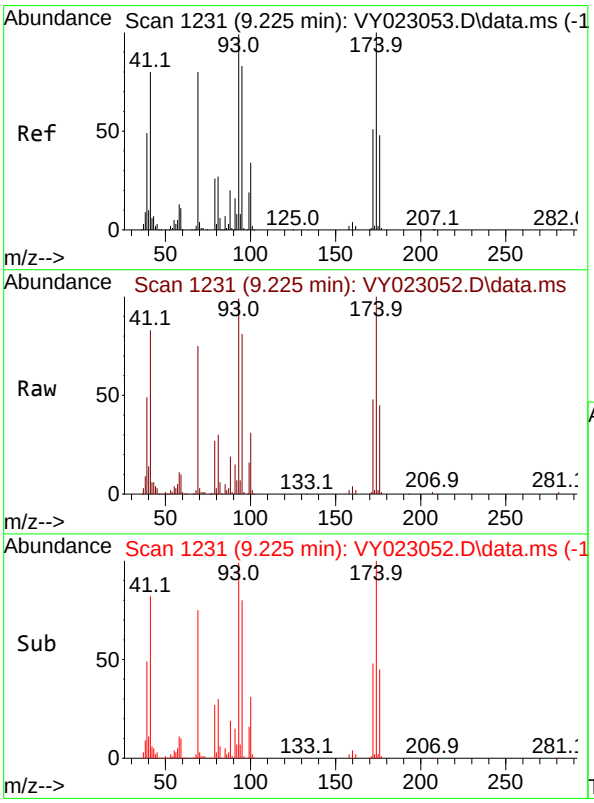
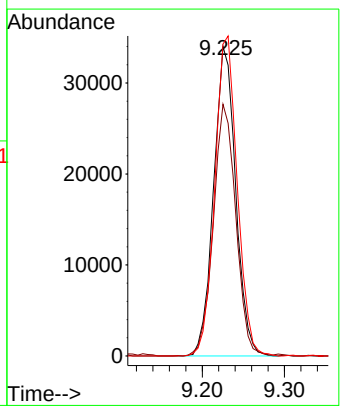


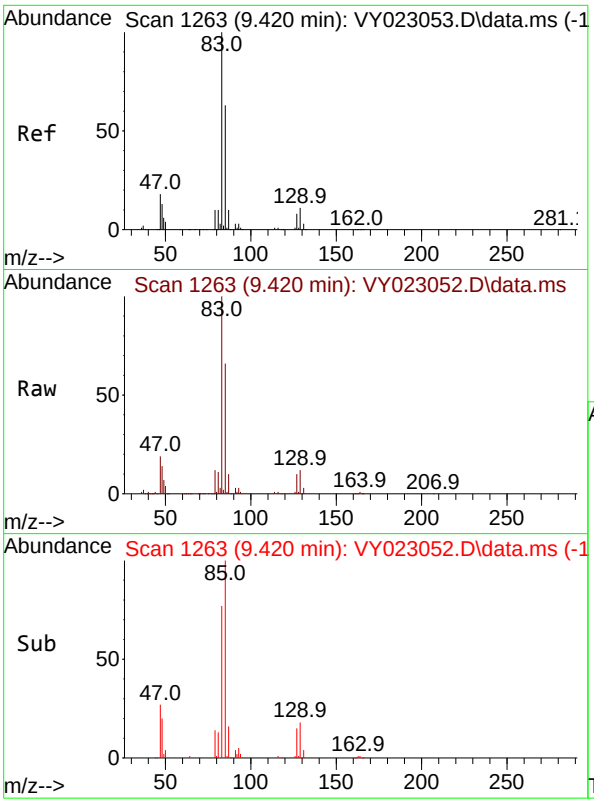


#46
Dibromomethane
Concen: 20.635 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

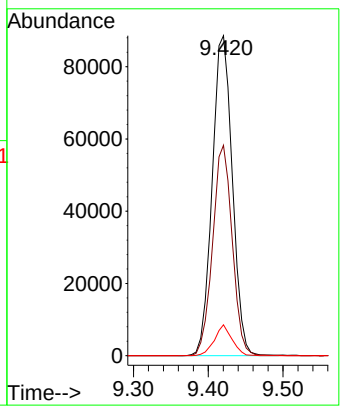




#47
Bromodichloromethane
Concen: 20.988 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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ClientSampleId :
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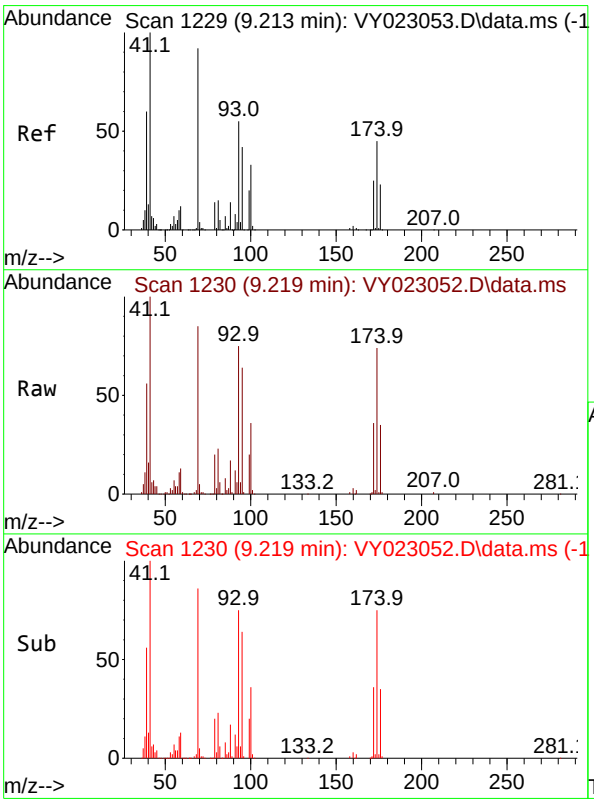
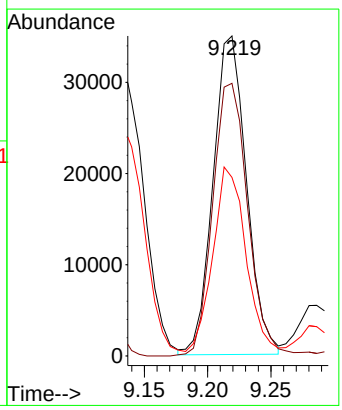
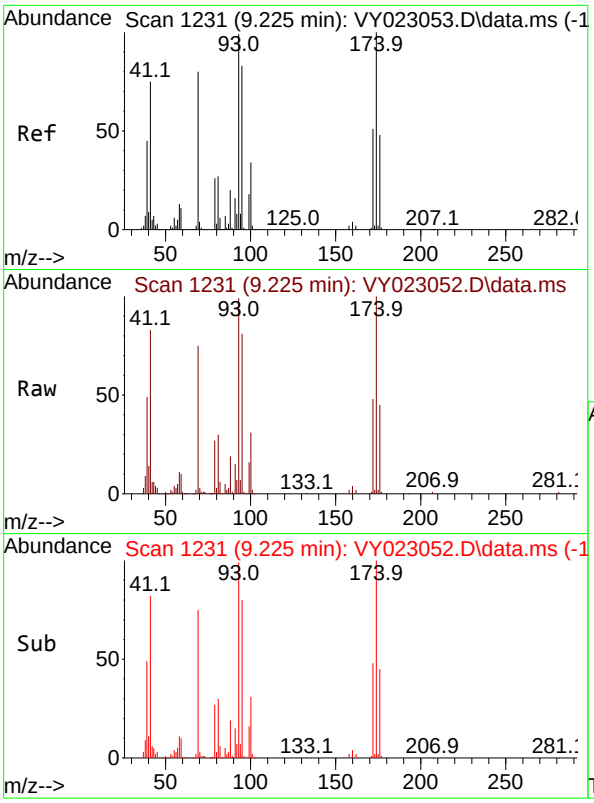


#48
Methyl methacrylate
Concen: 20.905 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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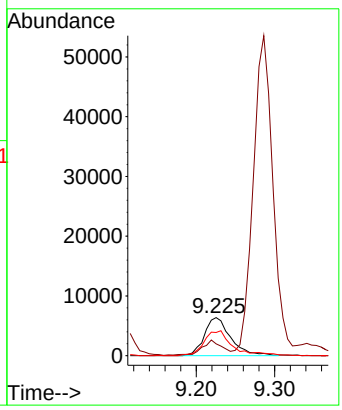
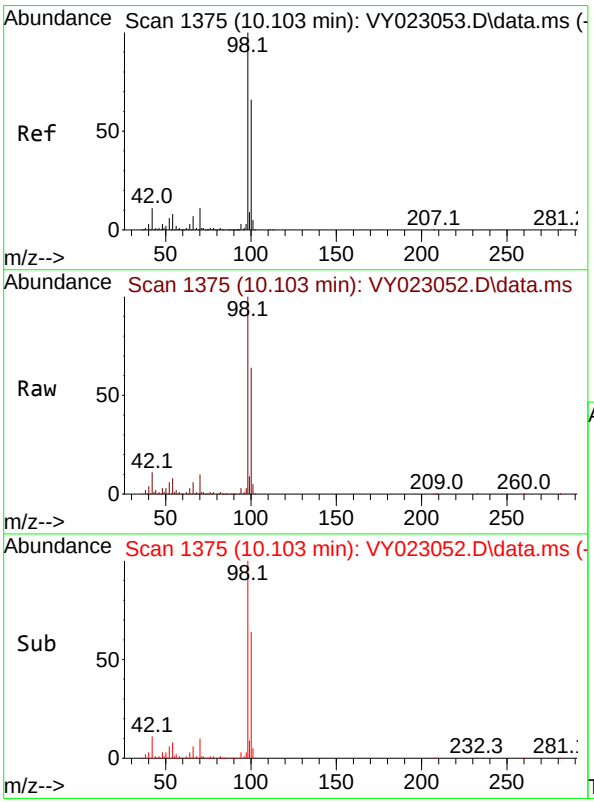
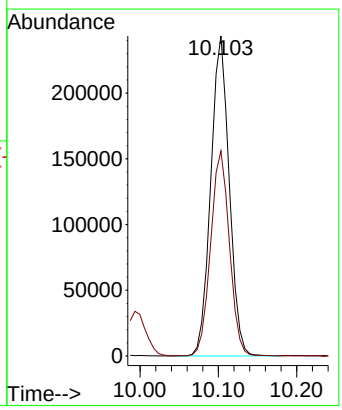


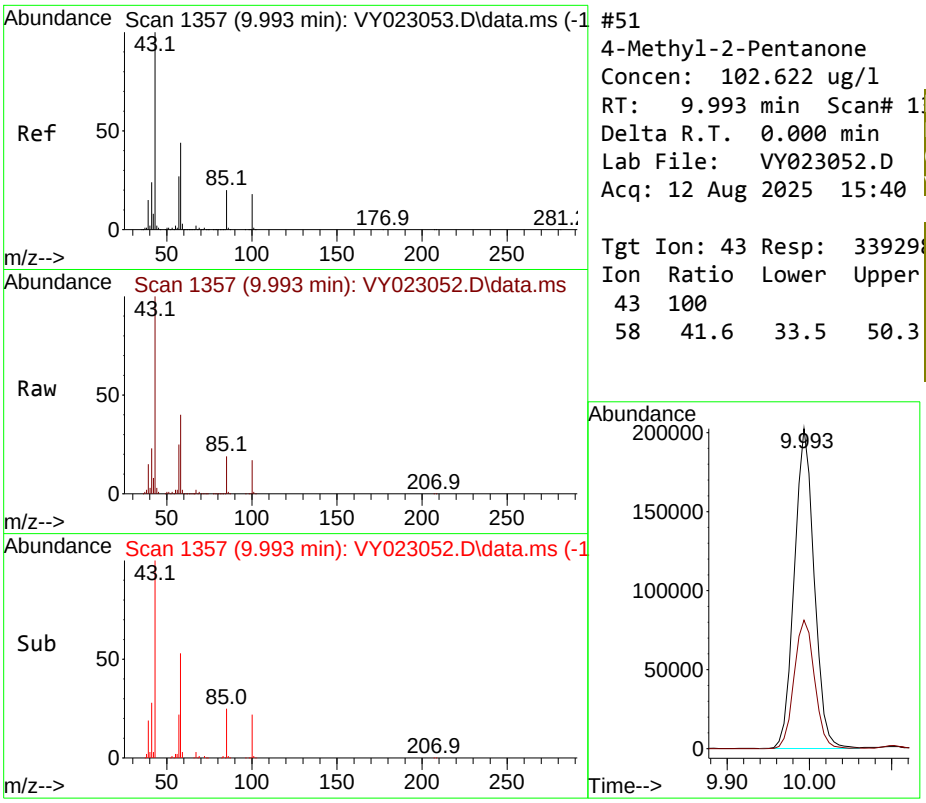


#50
Toluene-d8
Concen: 20.075 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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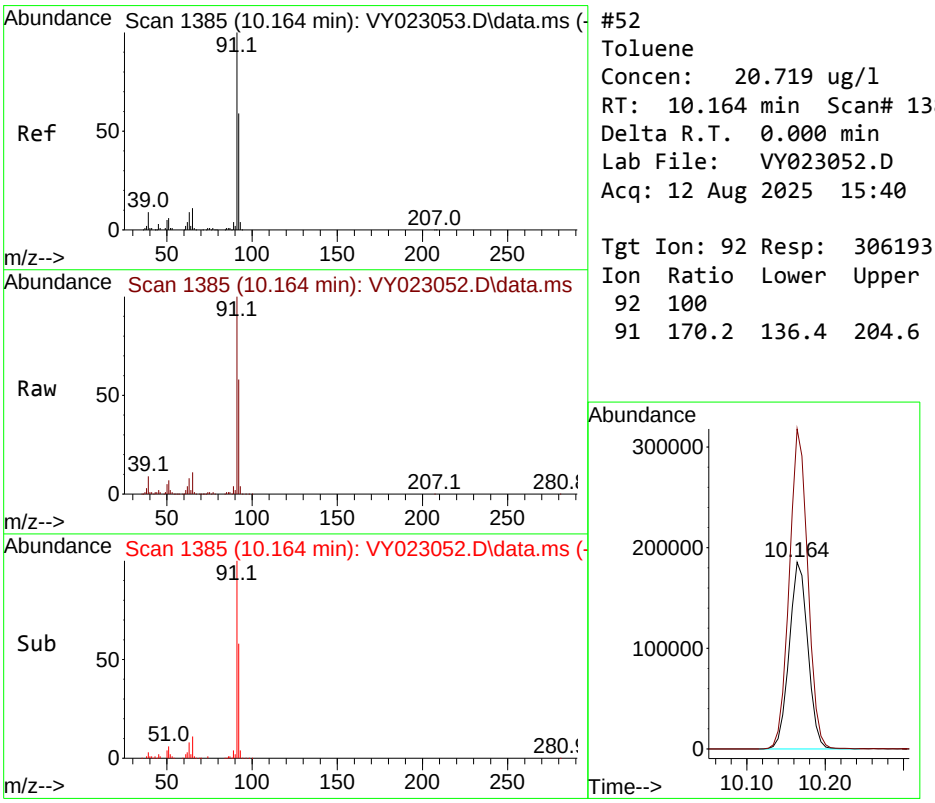
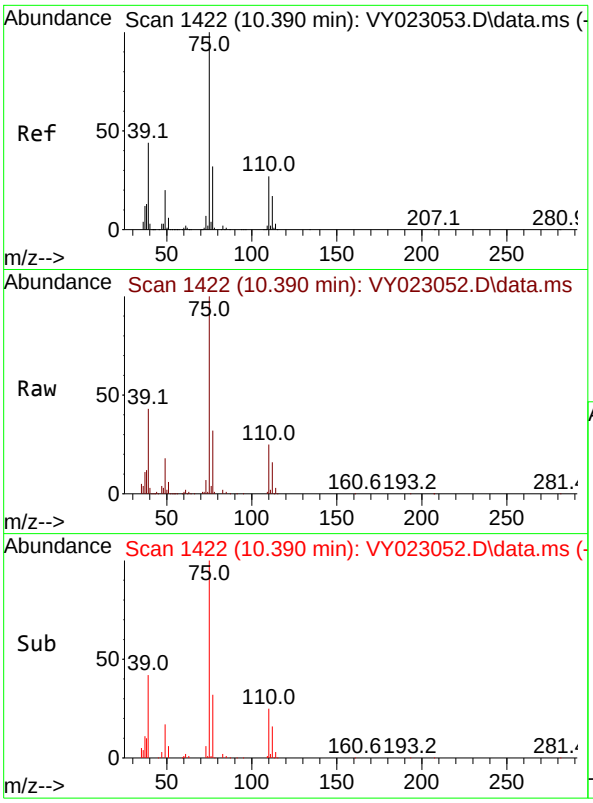


#52
Toluene
Concen: 20.719 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 92 Resp: 306193

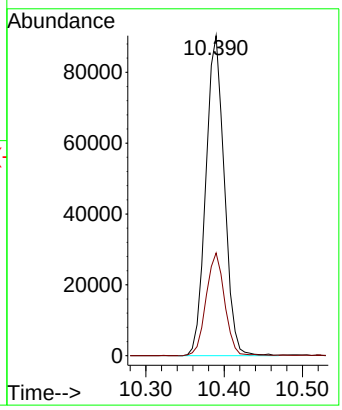
Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.4	204.6



#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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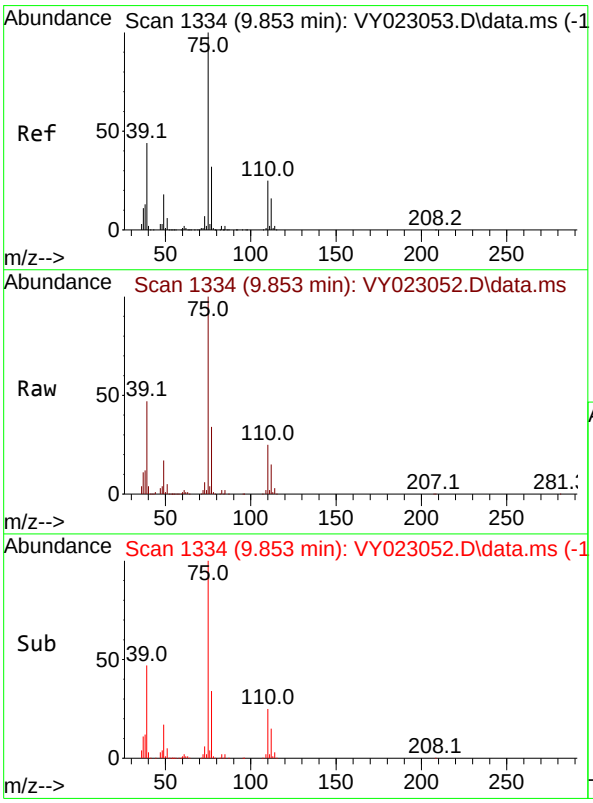
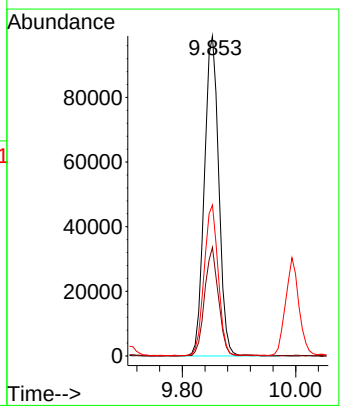
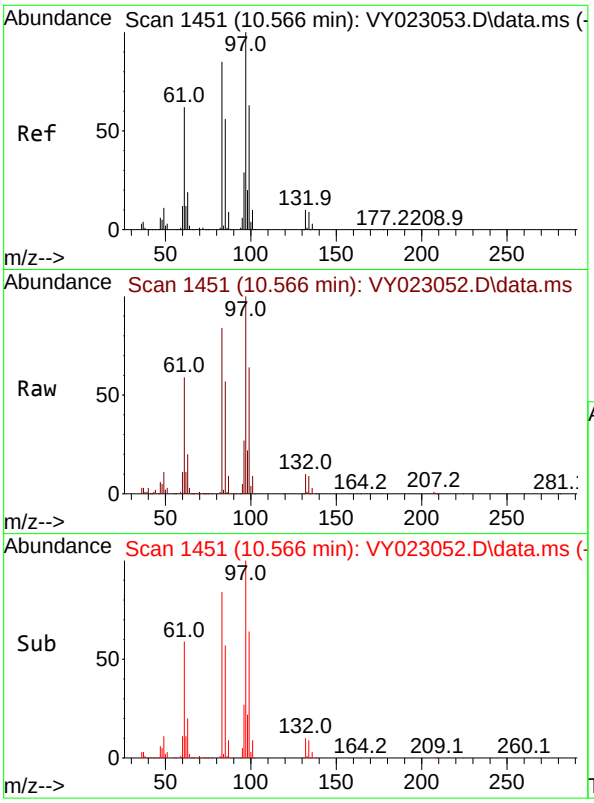


#54
cis-1,3-Dichloropropene
Concen: 20.580 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

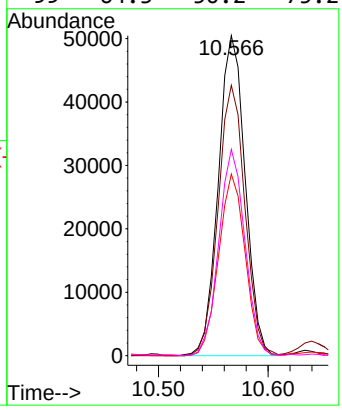




#55
1,1,2-Trichloroethane
Concen: 20.920 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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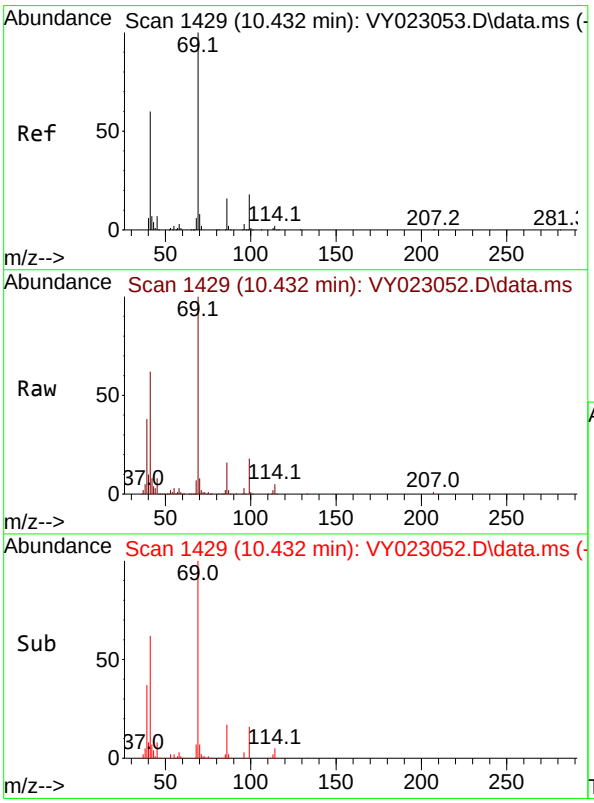
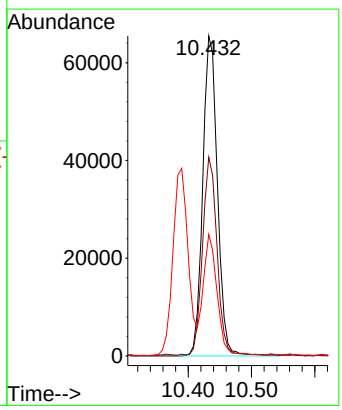
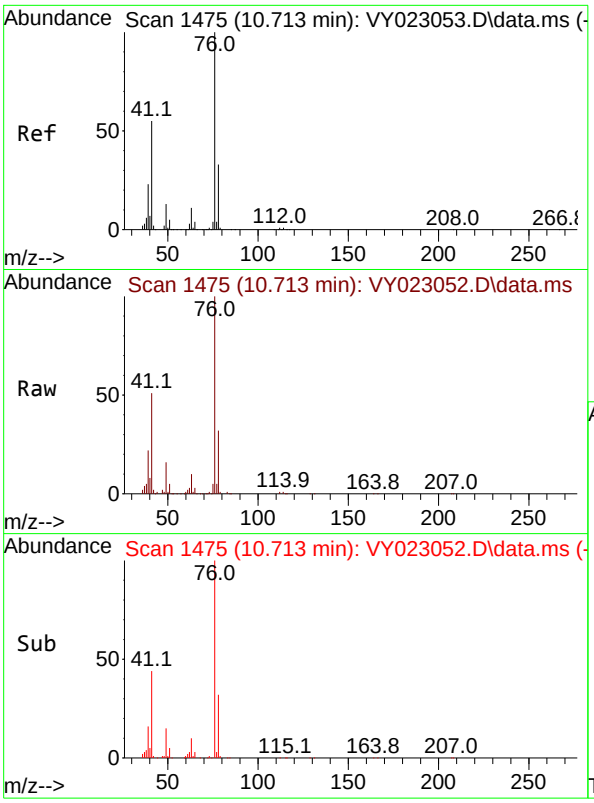


#56
Ethyl methacrylate
Concen: 20.111 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

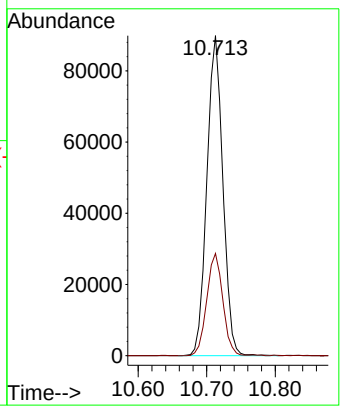




#57
1,3-Dichloropropane
Concen: 20.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 76 Resp: 14562

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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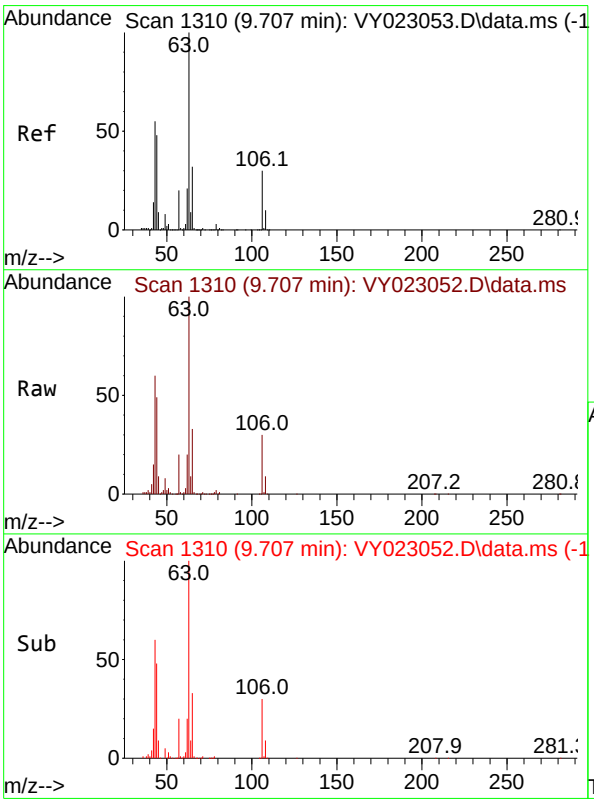
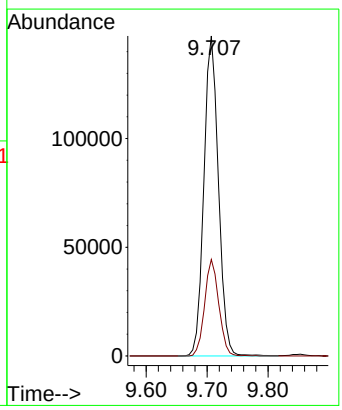
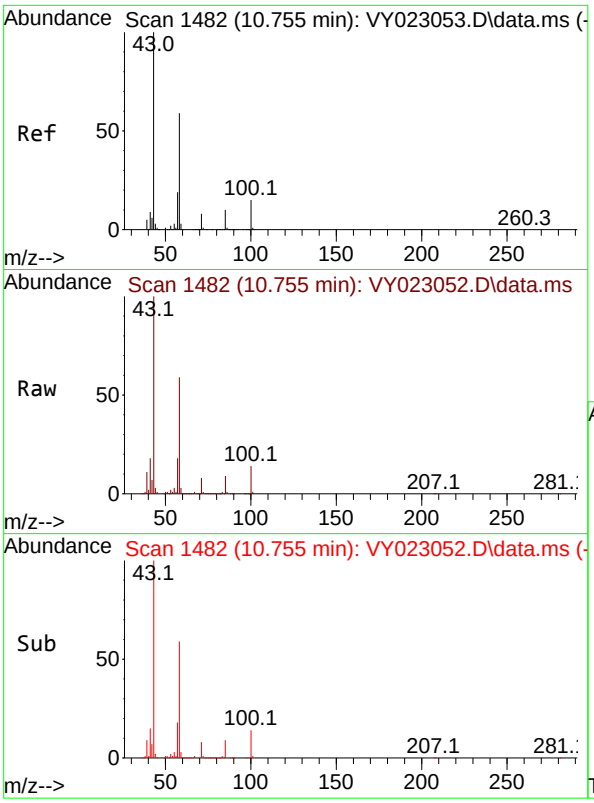


#58
2-Chloroethyl Vinyl ether
Concen: 98.450 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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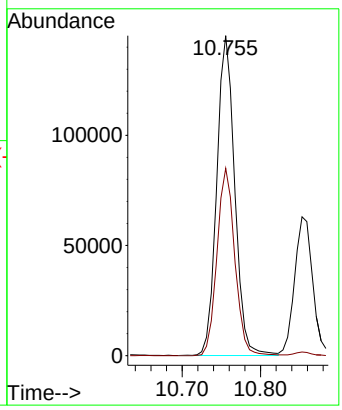
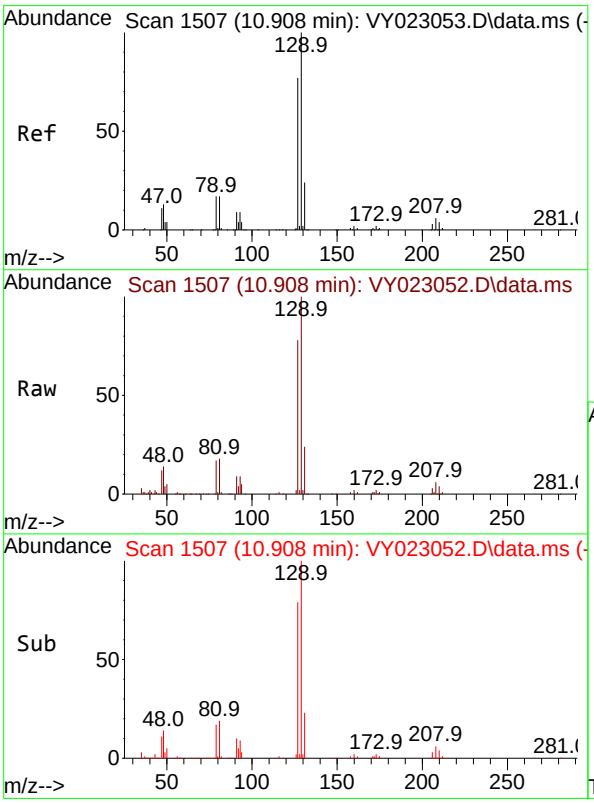
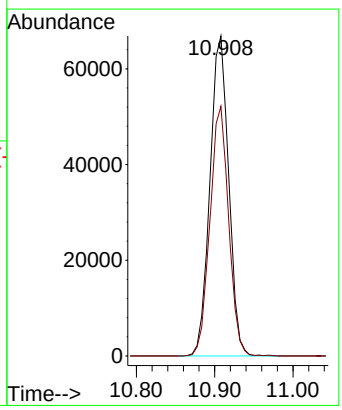


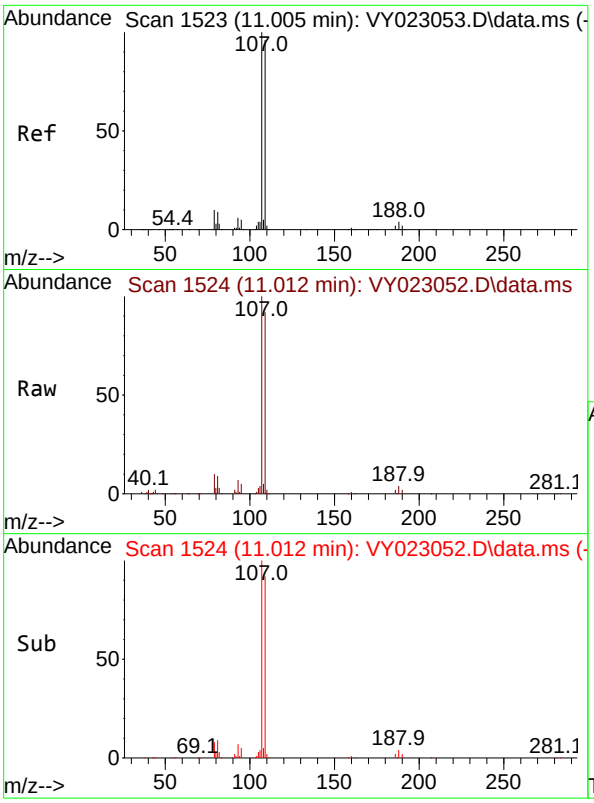


#60
Dibromochloromethane
Concen: 20.424 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:129 Resp: 110810

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.5

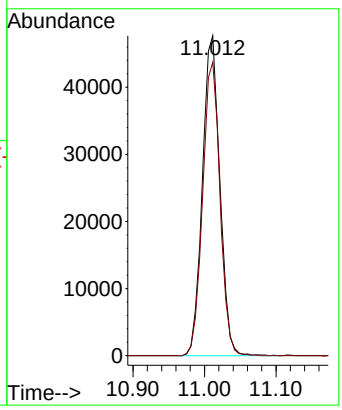




#61
1,2-Dibromoethane
Concen: 20.842 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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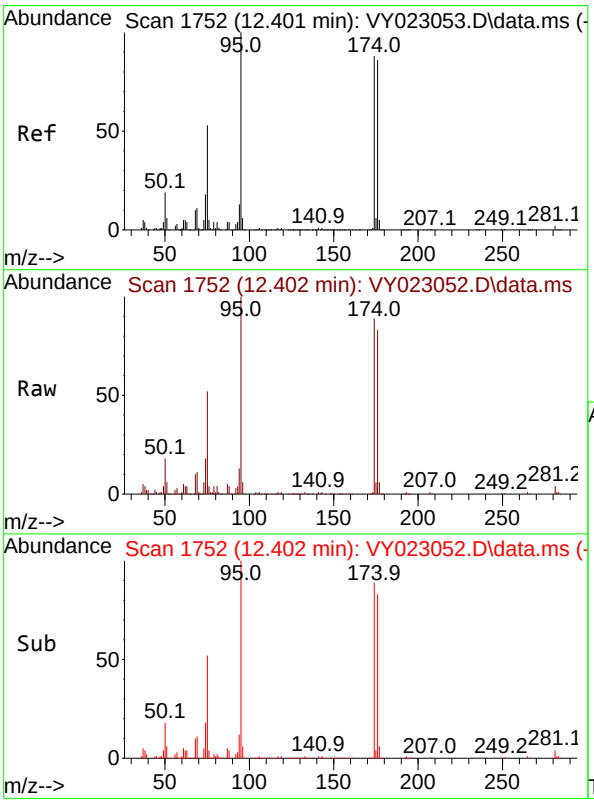
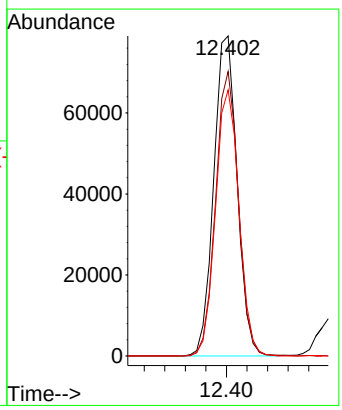
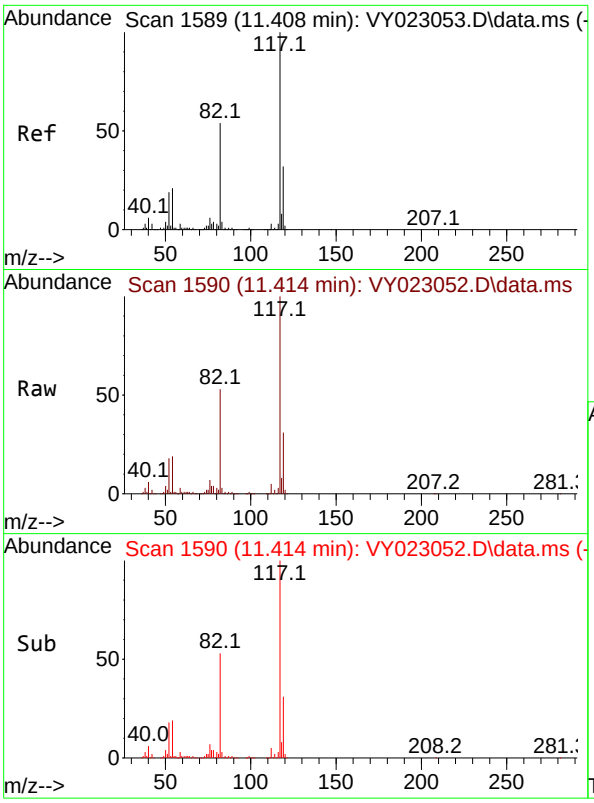


#62
4-Bromofluorobenzene
Concen: 19.503 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

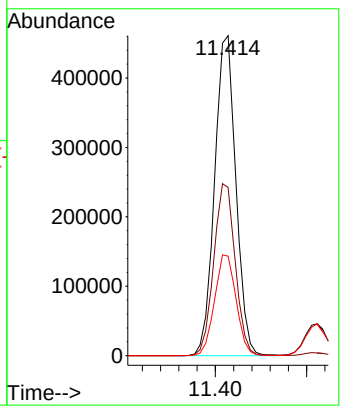




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
VSTDICC020

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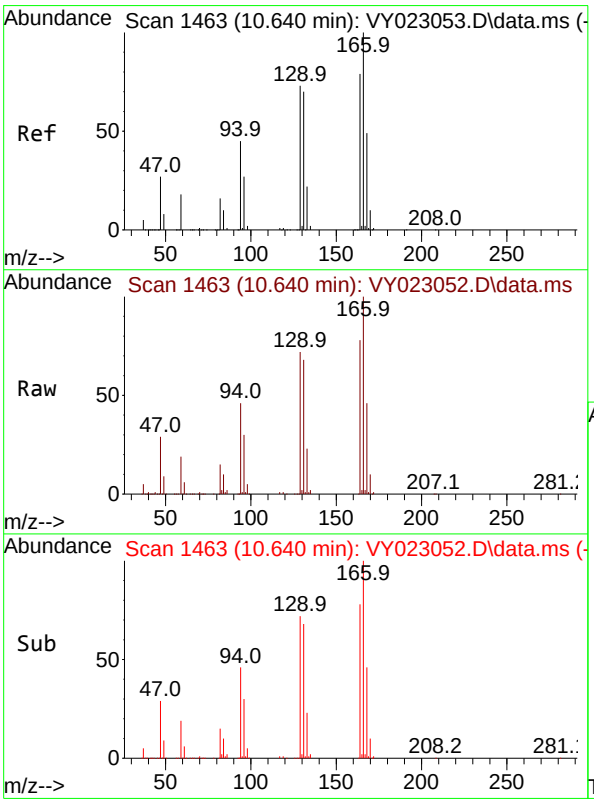
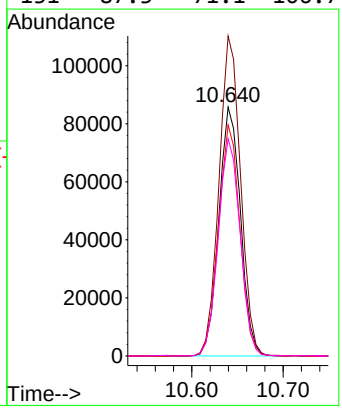
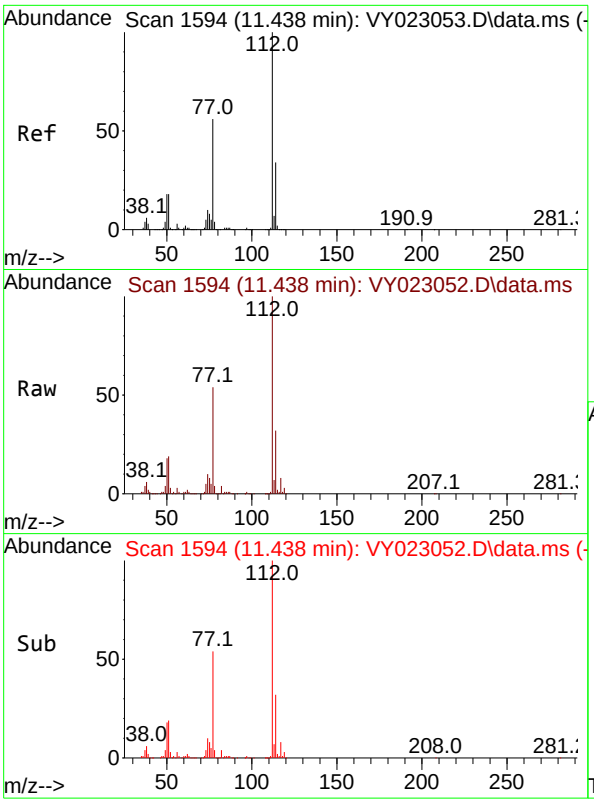


#64
Tetrachloroethene
Concen: 21.273 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

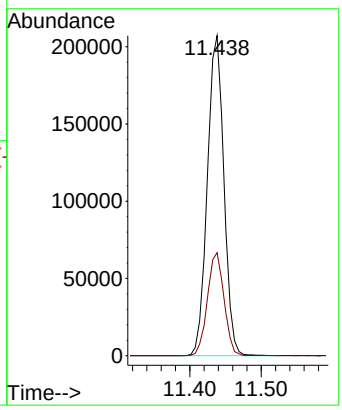




#65
Chlorobenzene
Concen: 20.690 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:112 Resp: 33270

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4



Instrument :
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ClientSampleId :
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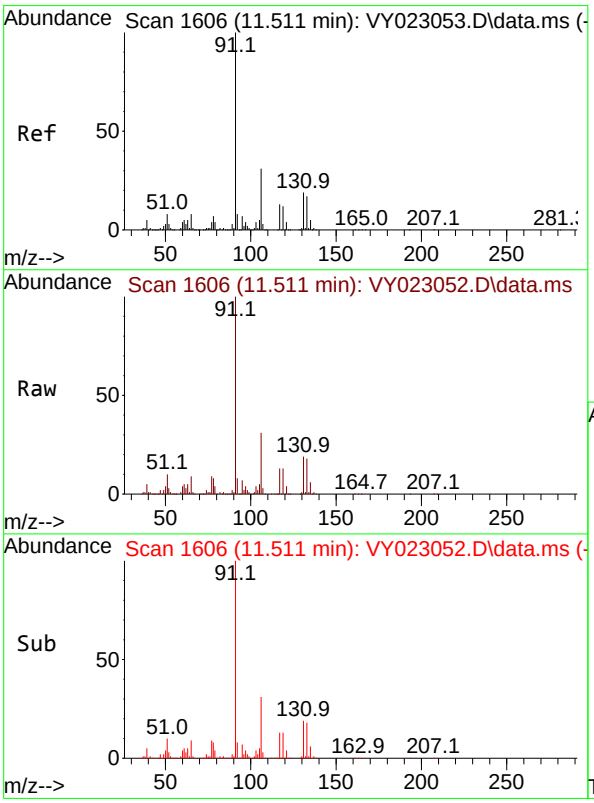
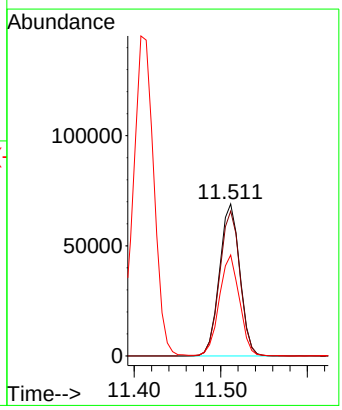
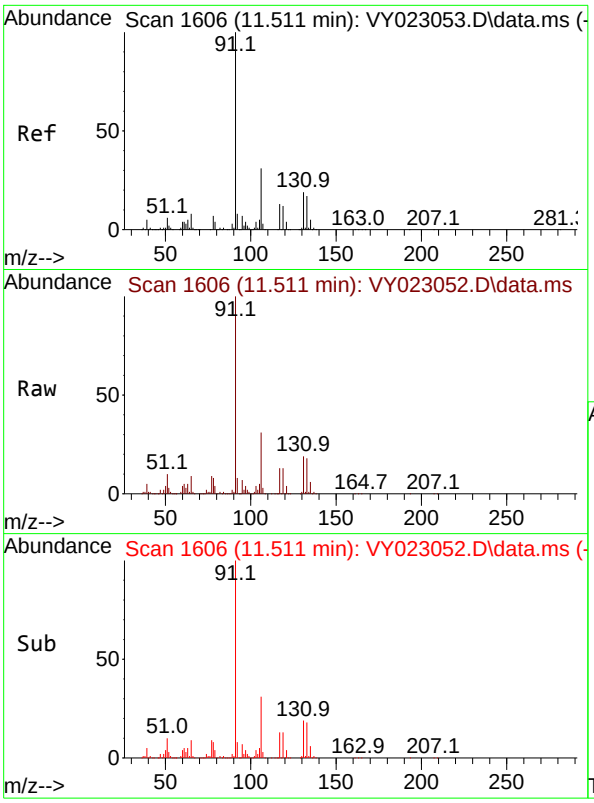


#66
1,1,1,2-Tetrachloroethane
Concen: 20.647 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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: 56485

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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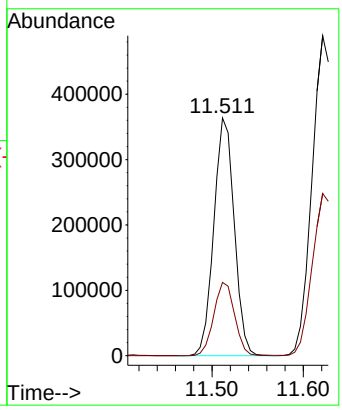
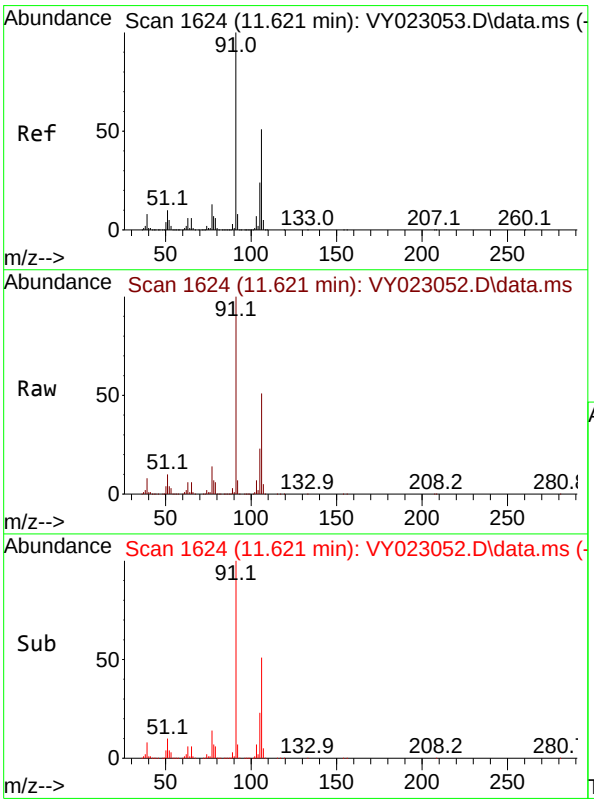
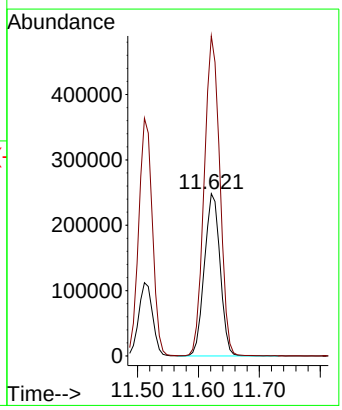


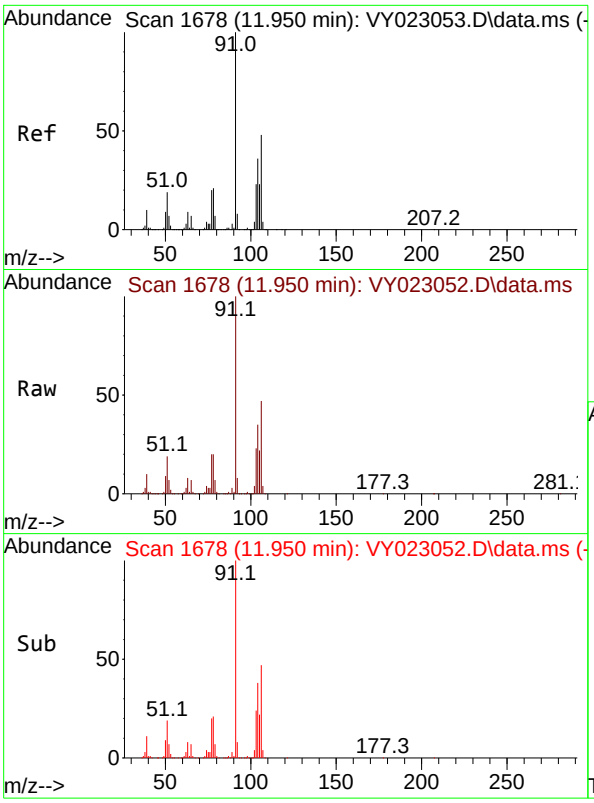


#68
m/p-Xylenes
Concen: 41.115 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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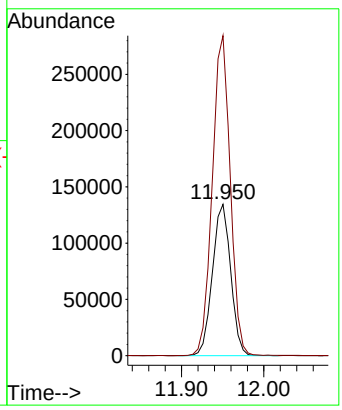
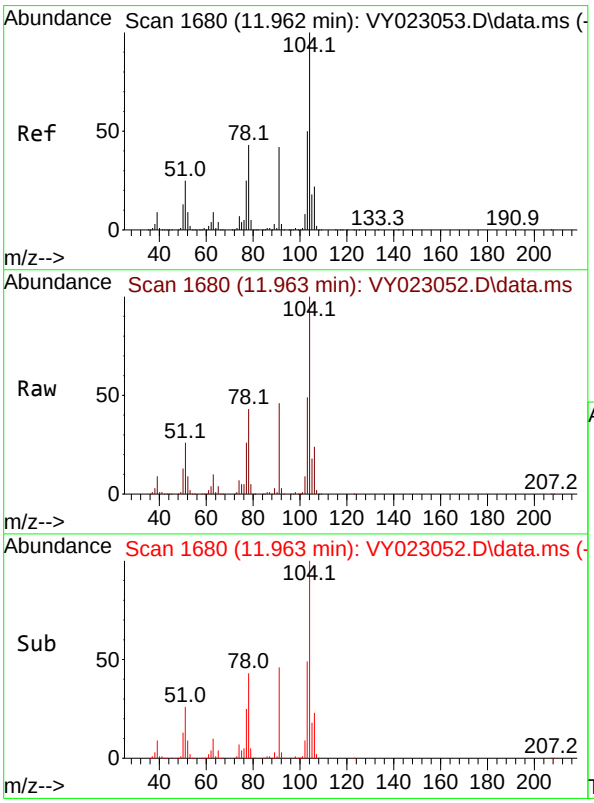
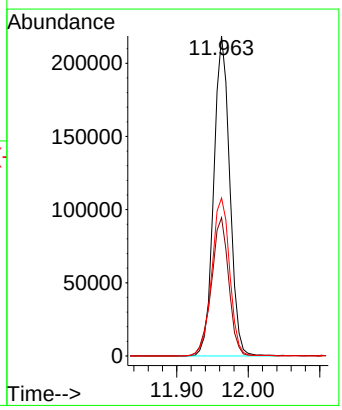


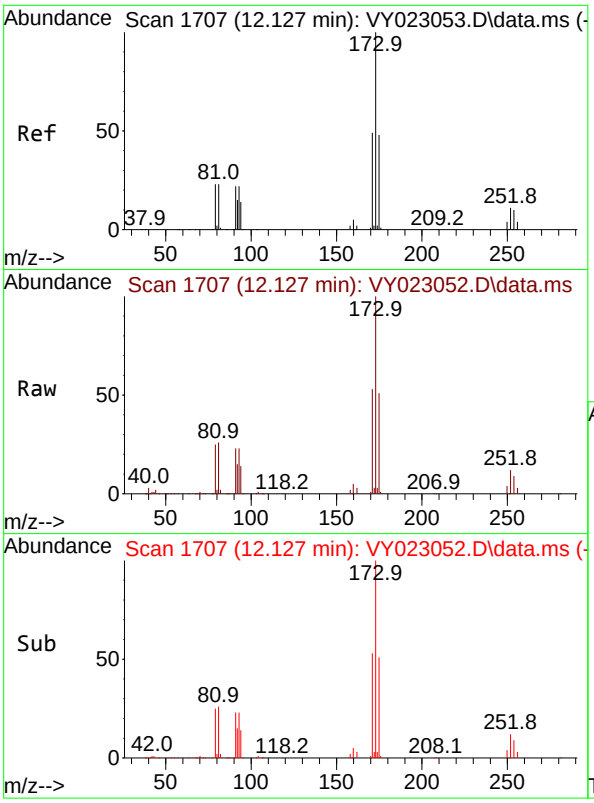


#70
Styrene
Concen: 20.532 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

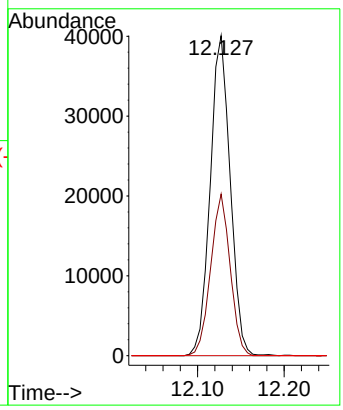




#71
Bromoform
Concen: 20.151 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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ClientSampleId :
VSTDICC020

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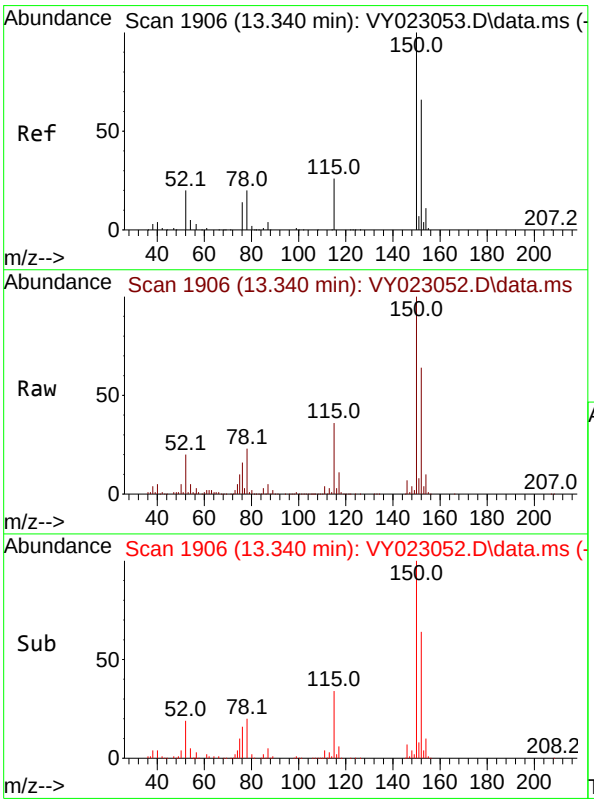
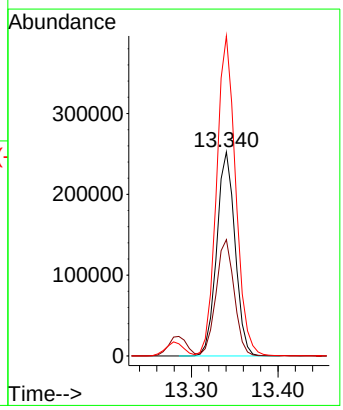
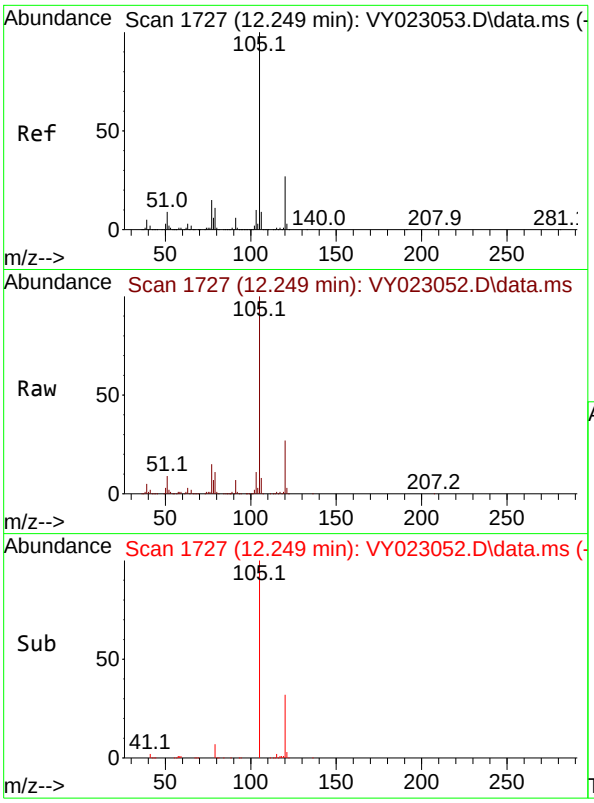


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

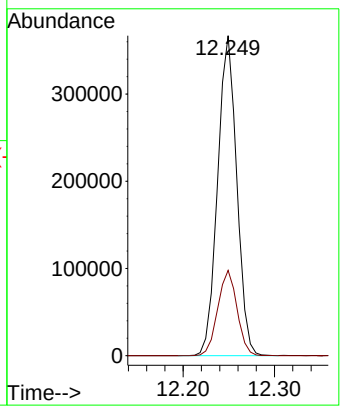




#73
Isopropylbenzene
Concen: 20.413 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 53442

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
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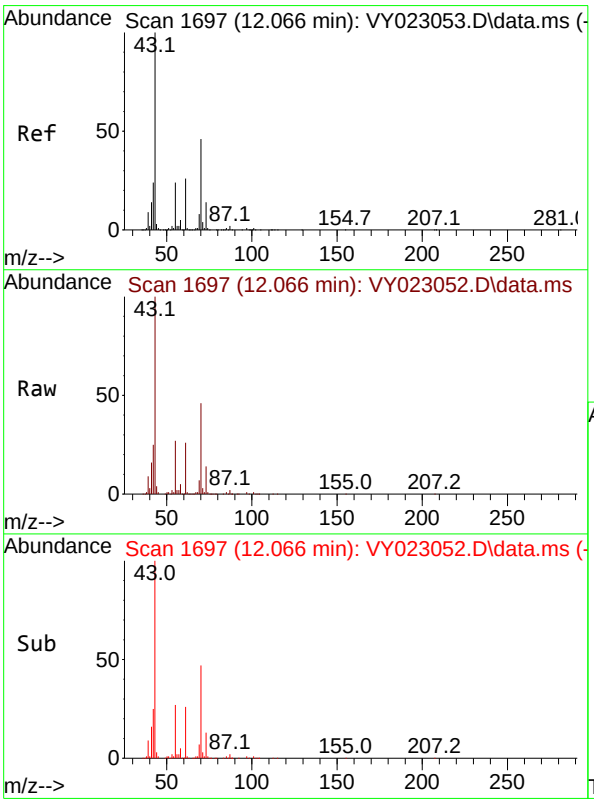
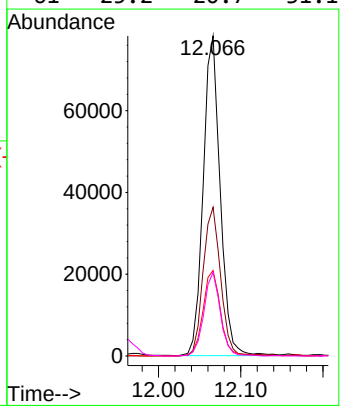
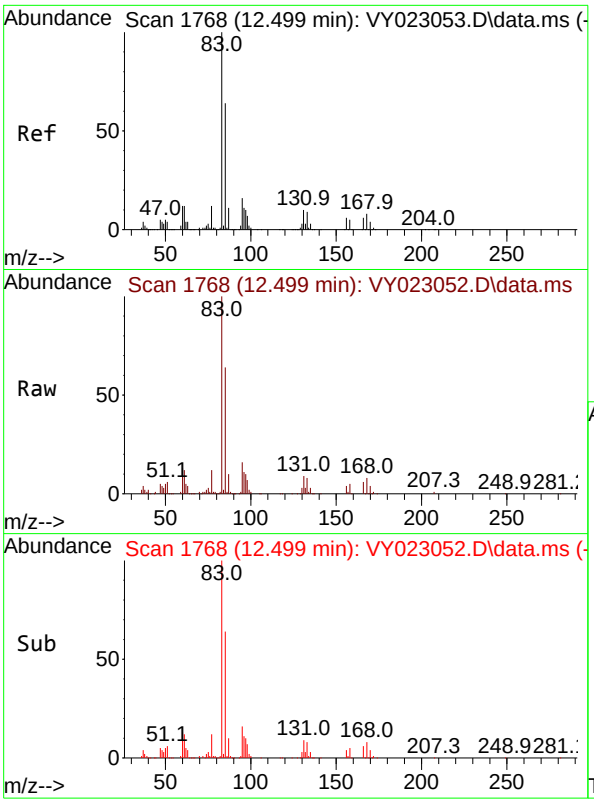


#74
N-amyl acetate
Concen: 20.227 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

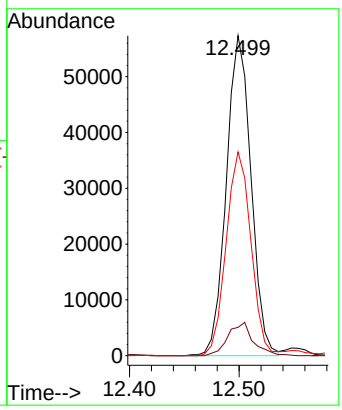




#75
1,1,2,2-Tetrachloroethane
Concen: 20.085 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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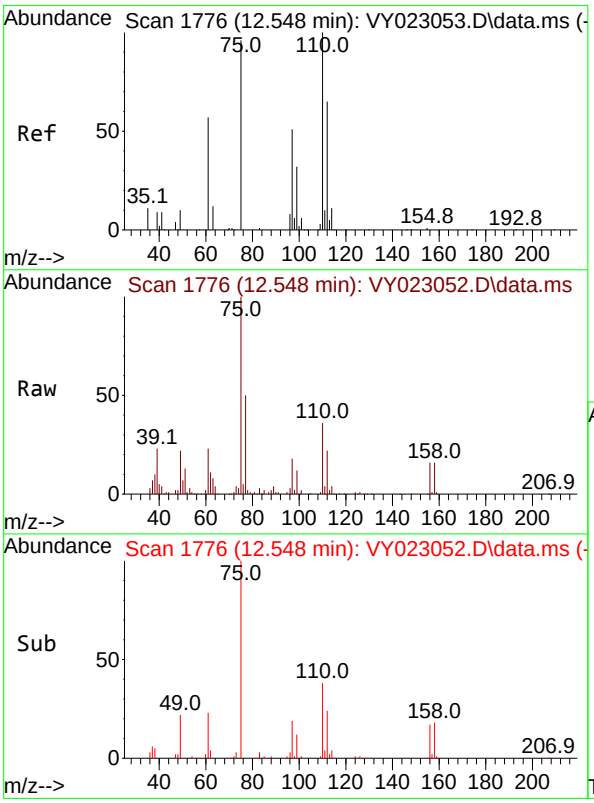
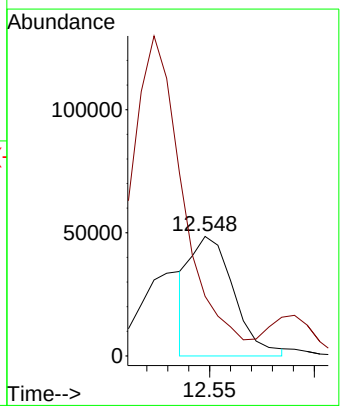
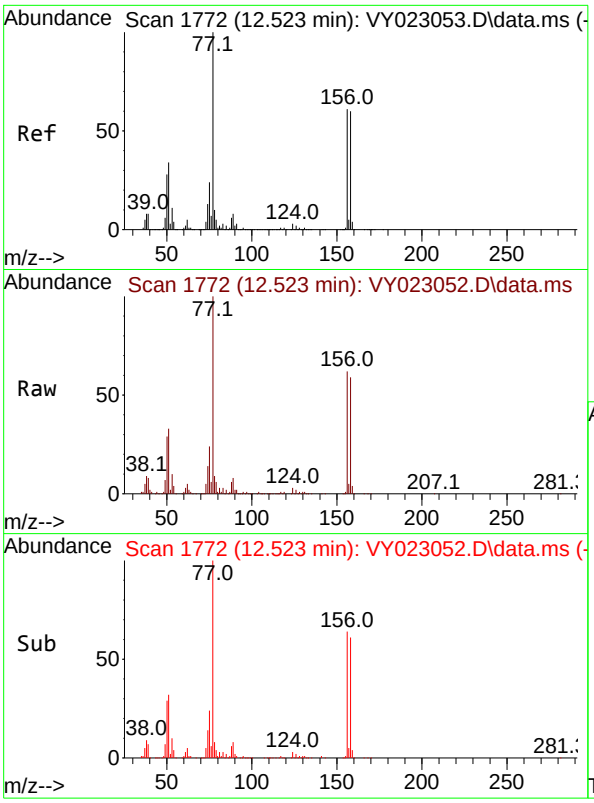


#76
1,2,3-Trichloropropane
Concen: 19.560 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 70070

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

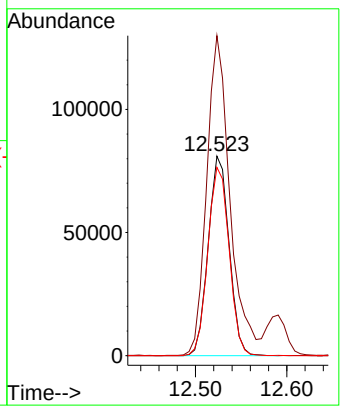




#77
Bromobenzene
Concen: 20.574 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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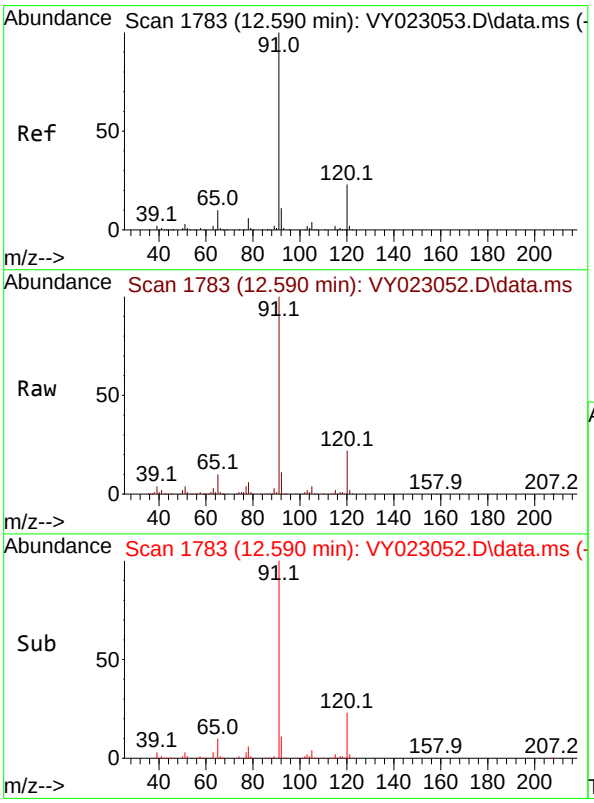
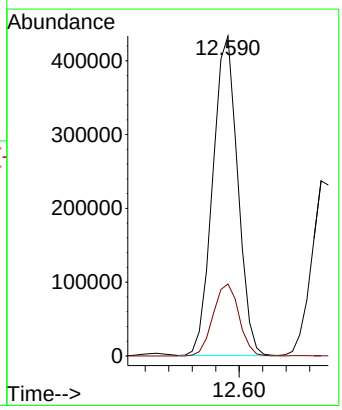
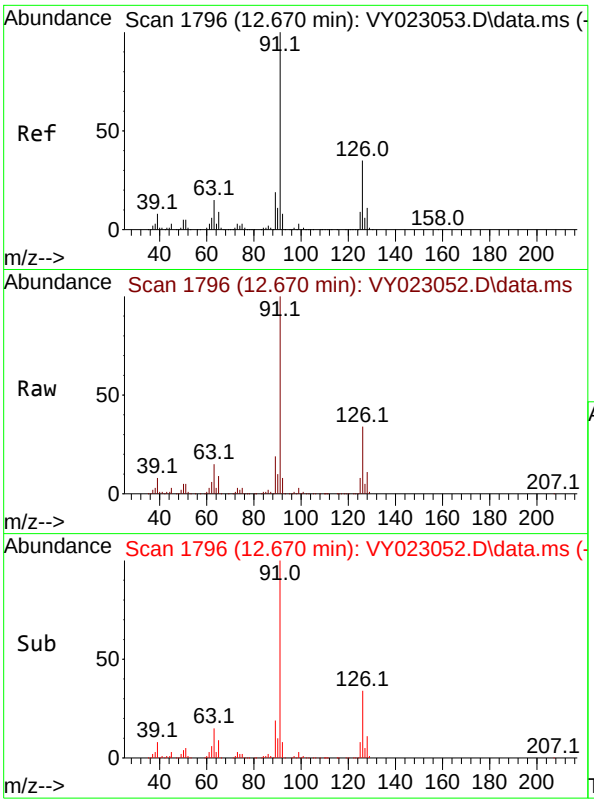


#78
n-propylbenzene
Concen: 20.550 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 640528

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.5

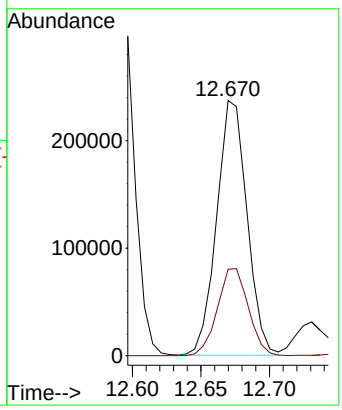




#79
2-Chlorotoluene
Concen: 20.471 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 36557

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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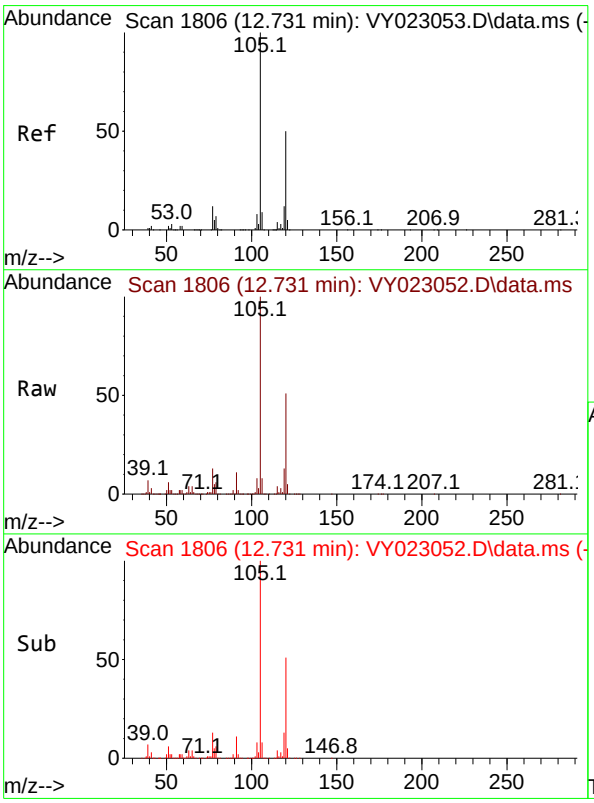
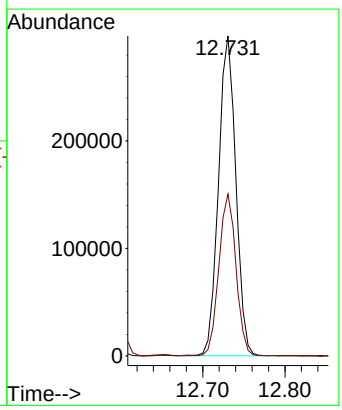
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

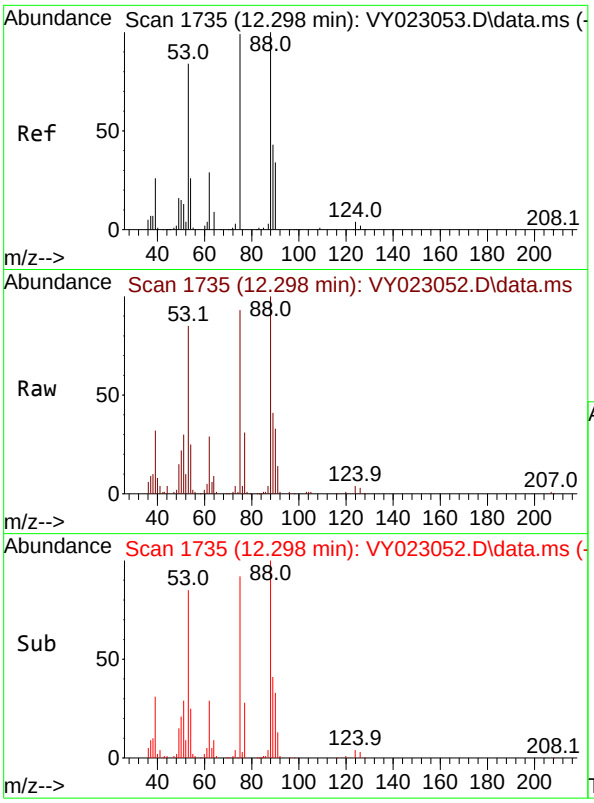


#80
1,3,5-Trimethylbenzene
Concen: 20.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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 :
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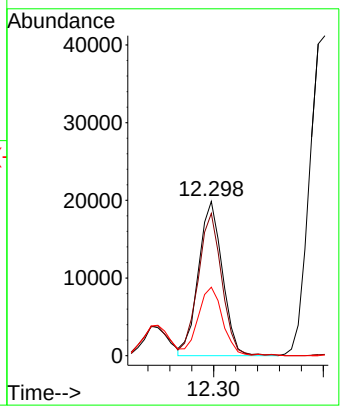
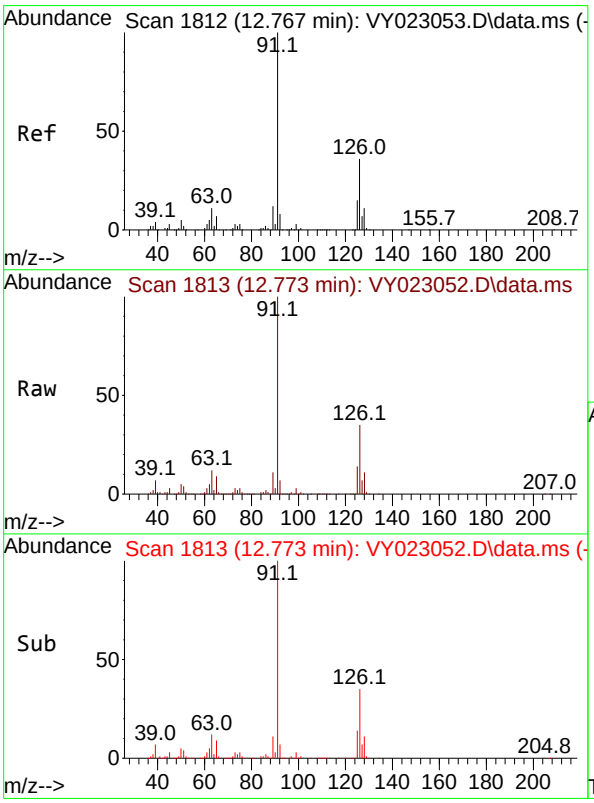
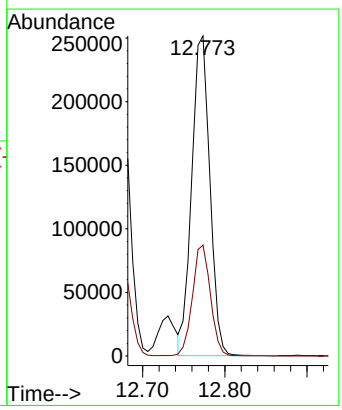


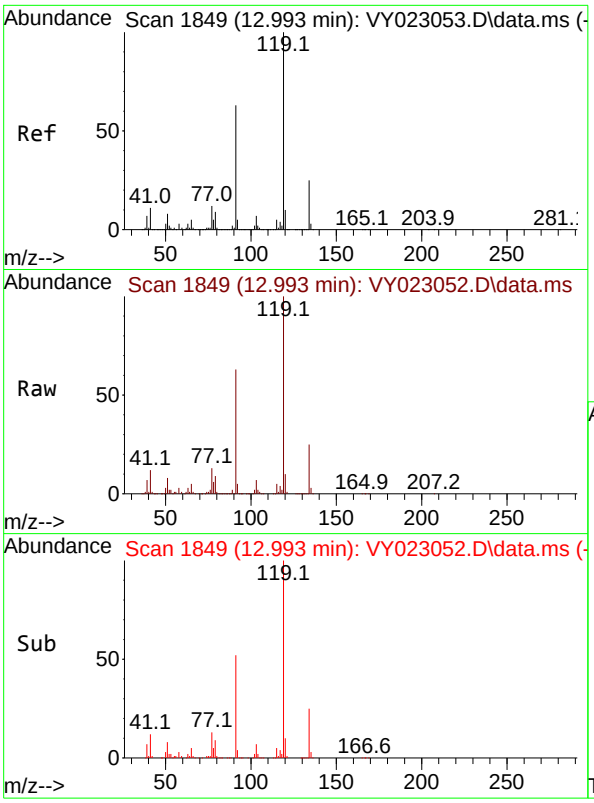


#82
4-Chlorotoluene
Concen: 20.822 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 385755

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	52.0

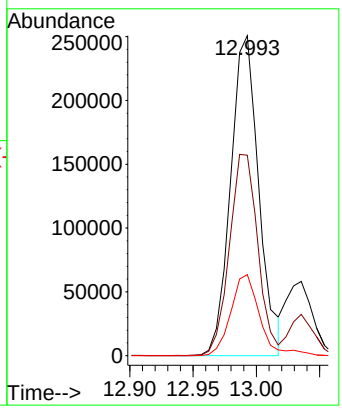




#83
tert-Butylbenzene
Concen: 20.389 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

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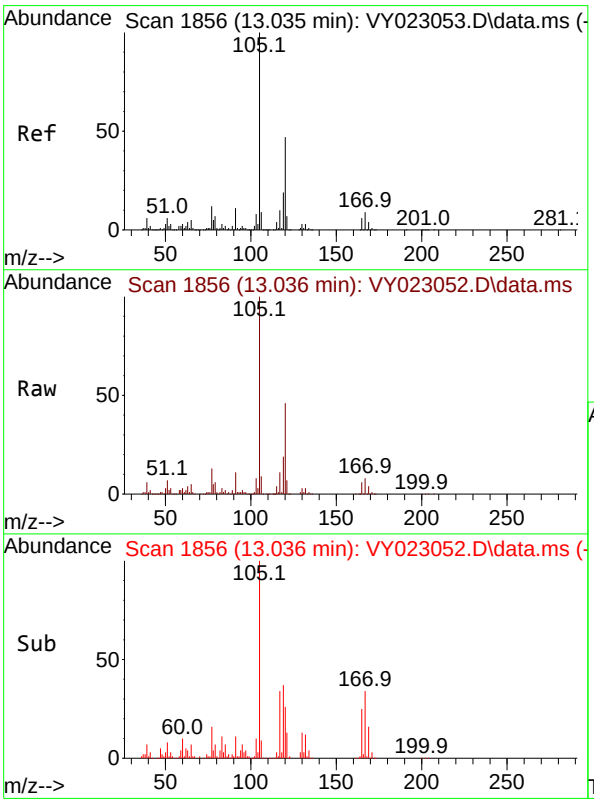
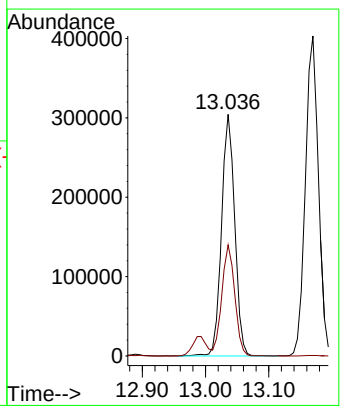
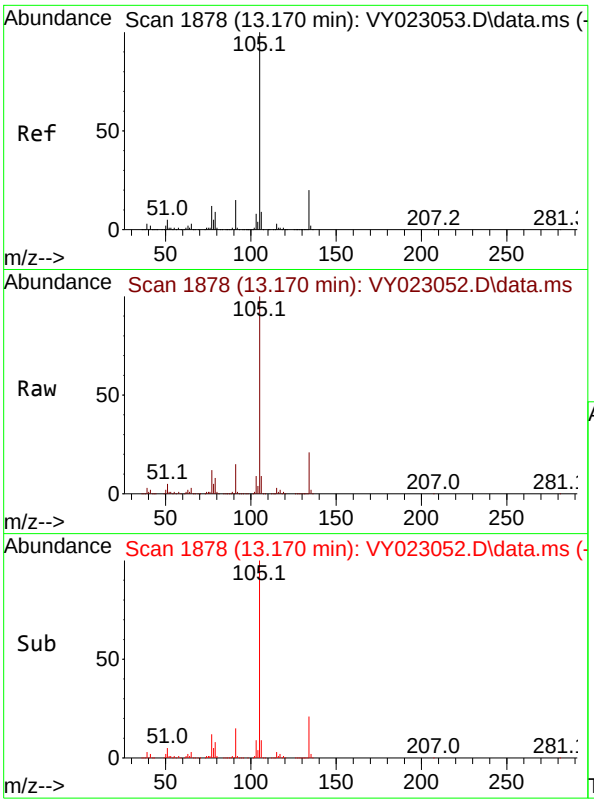


#84
1,2,4-Trimethylbenzene
Concen: 20.814 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 438392

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.0	69.0

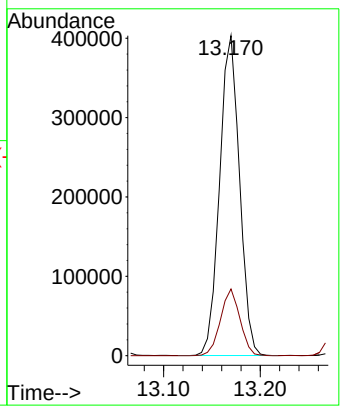




#85
sec-Butylbenzene
Concen: 20.512 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 57580

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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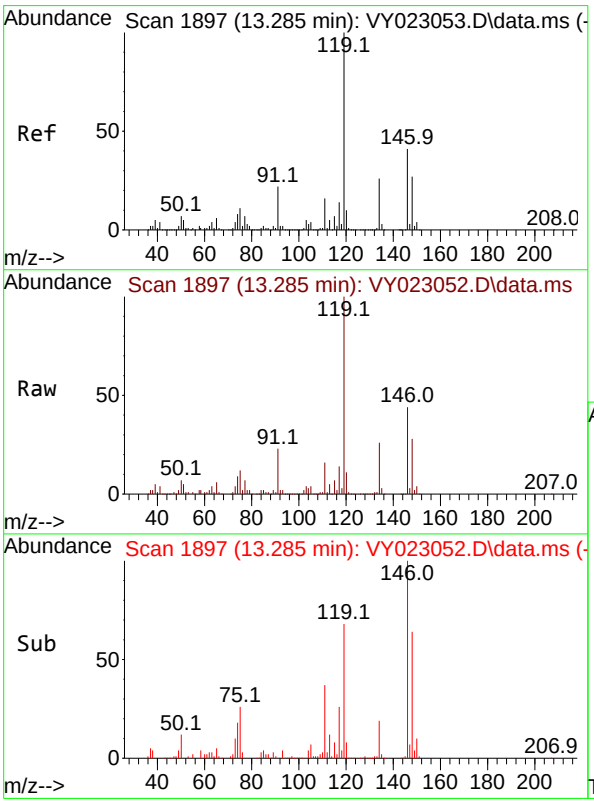
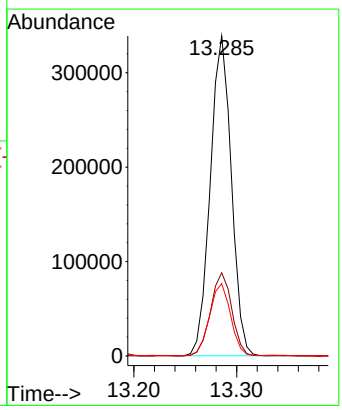
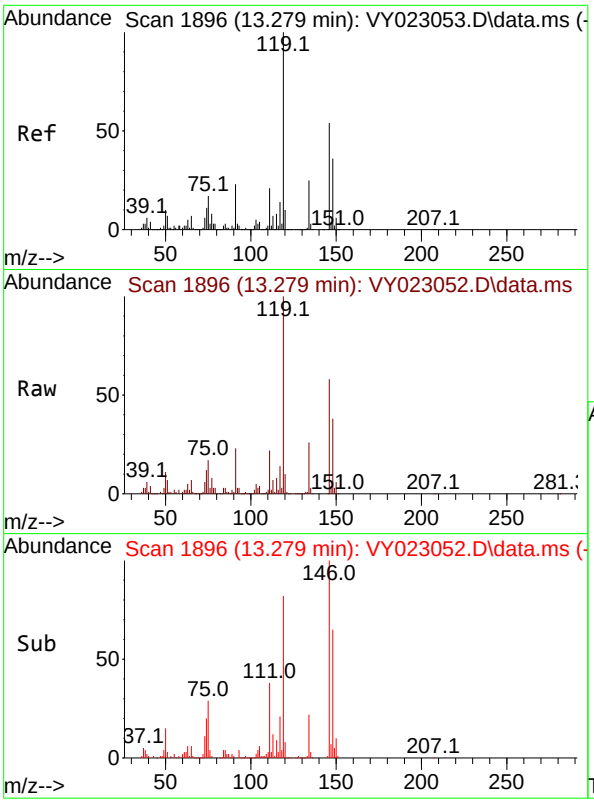


#86
p-Isopropyltoluene
Concen: 20.640 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

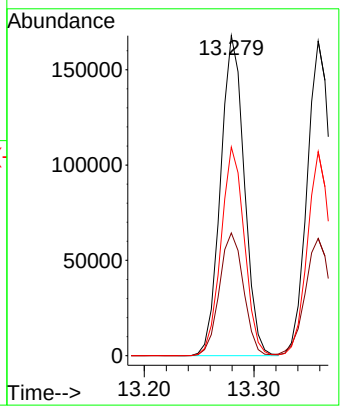




#87
1,3-Dichlorobenzene
Concen: 20.497 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

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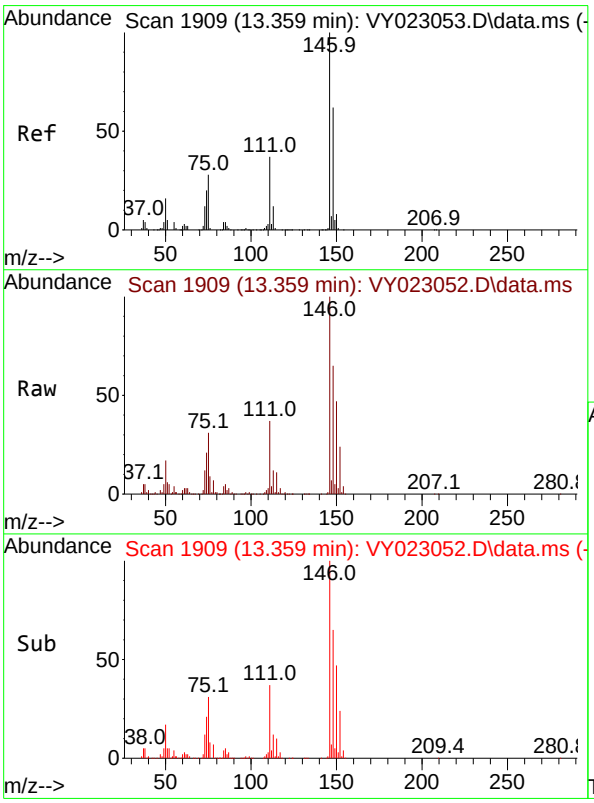
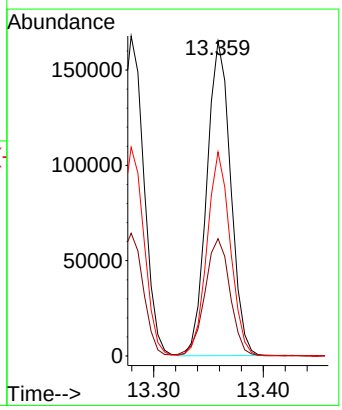
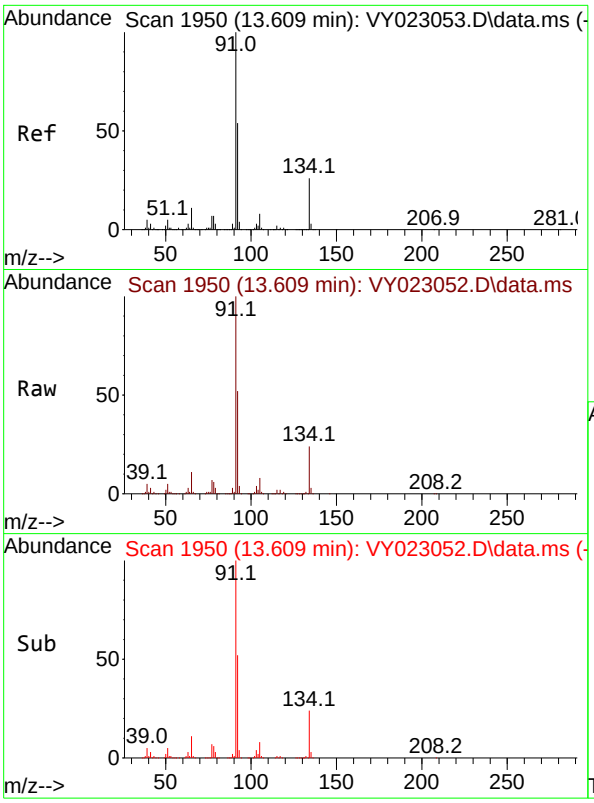


#88
1,4-Dichlorobenzene
Concen: 20.403 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

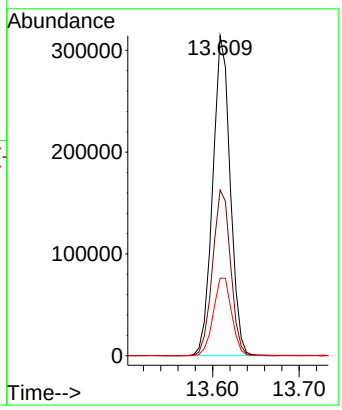




#89
n-Butylbenzene
Concen: 20.605 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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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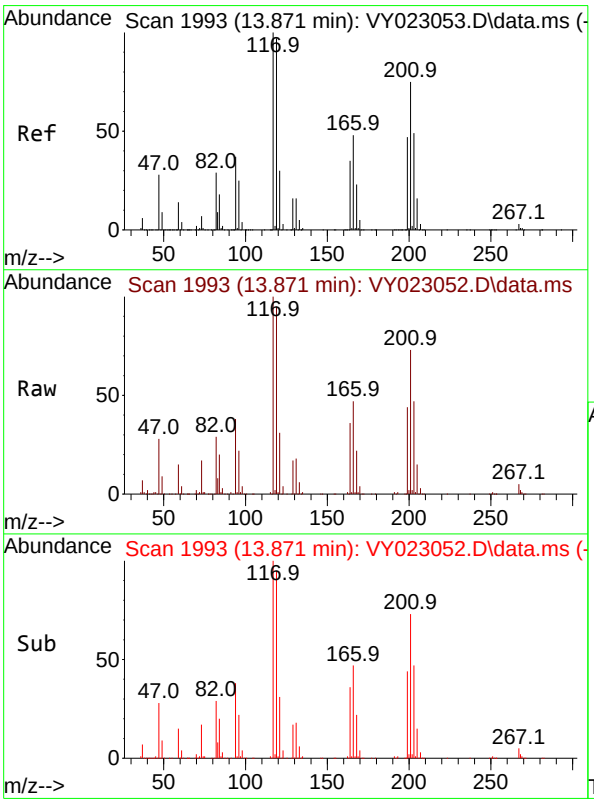
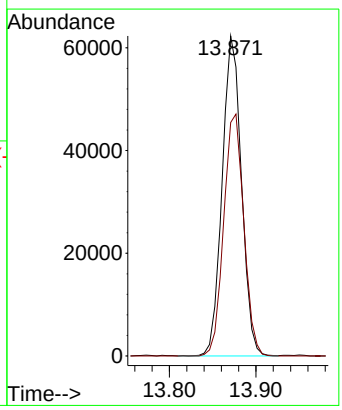
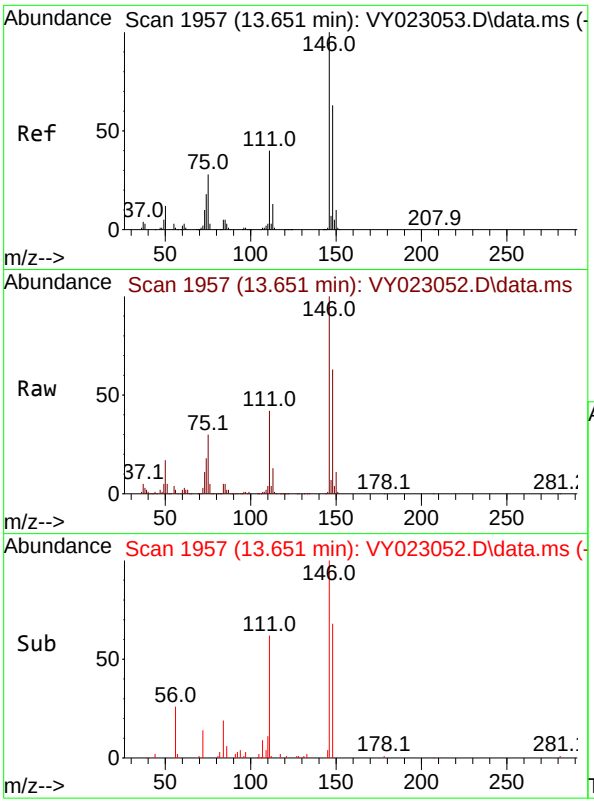


#90
Hexachloroethane
Concen: 20.226 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 96478

Ion	Ratio	Lower	Upper
117	100		
201	78.5	38.4	115.1

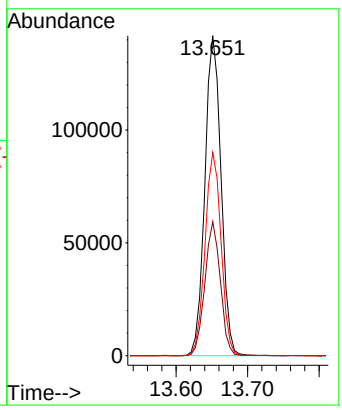




#91
1,2-Dichlorobenzene
Concen: 20.552 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

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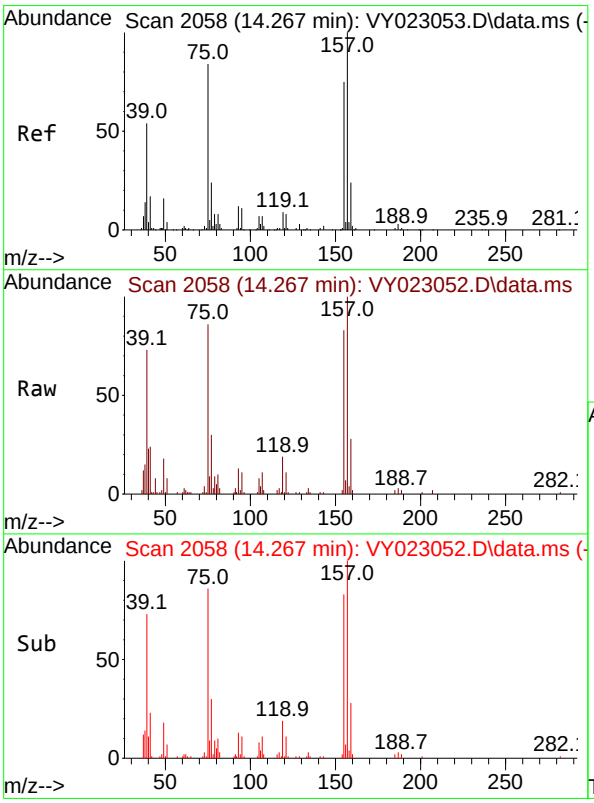
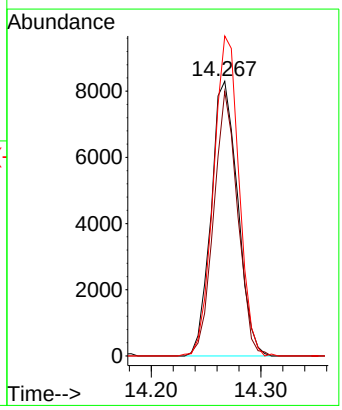
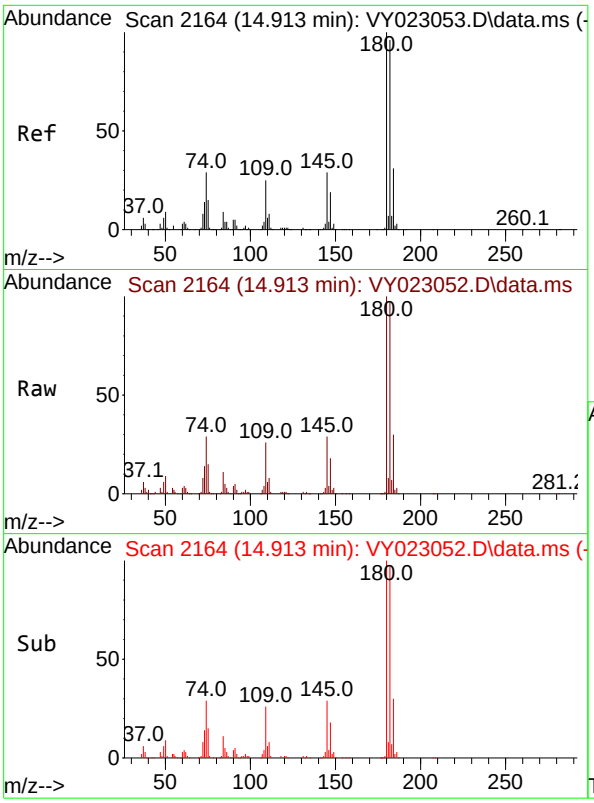


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.076 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

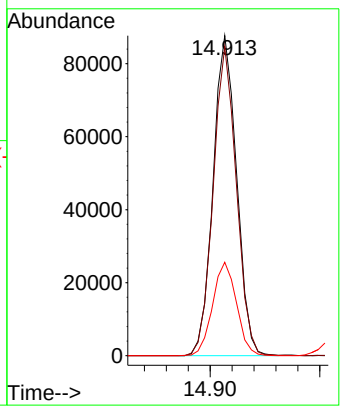




#93
1,2,4-Trichlorobenzene
Concen: 20.464 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

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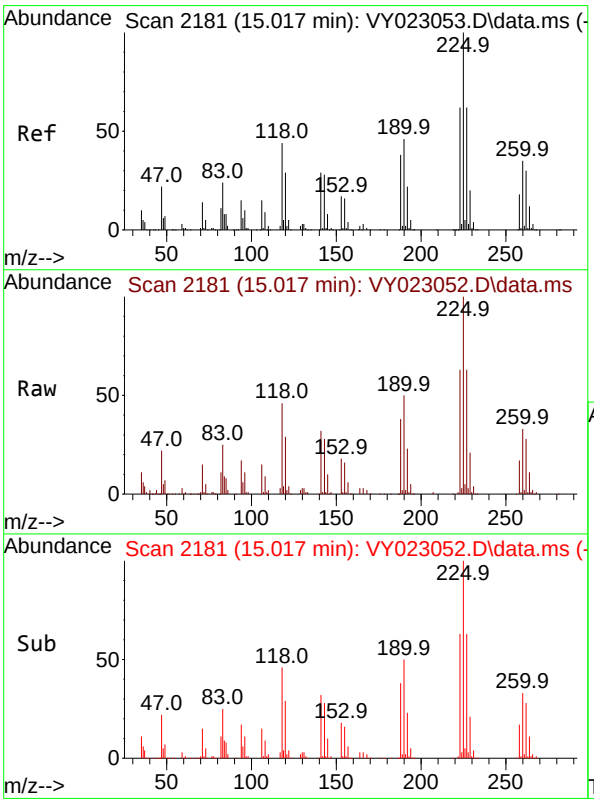
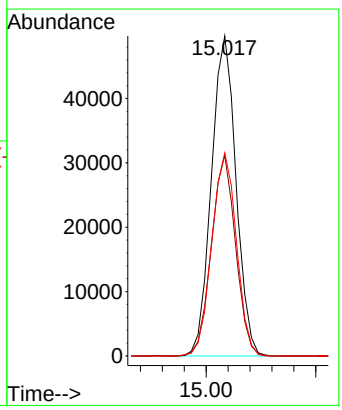
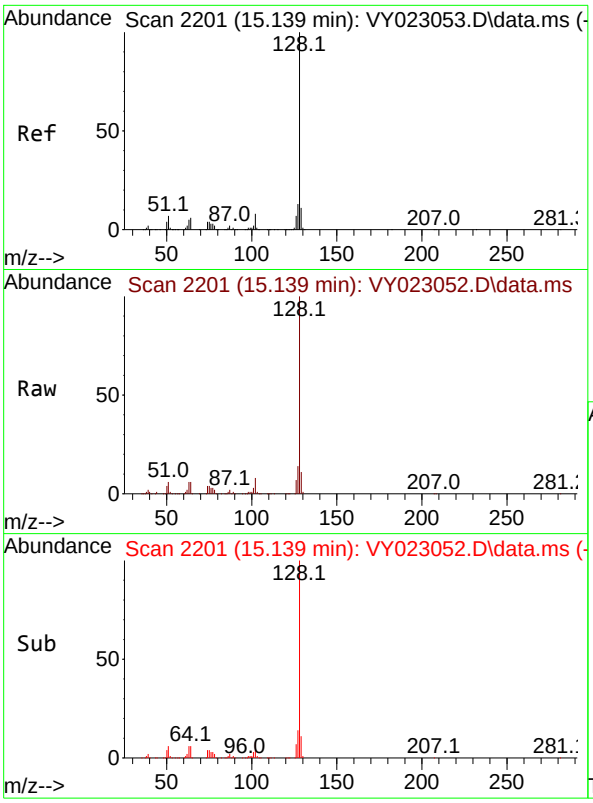


#94
Hexachlorobutadiene
Concen: 20.650 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

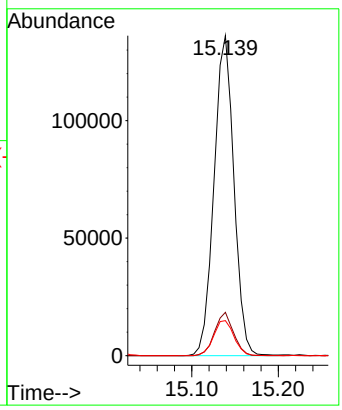




#95
Naphthalene
Concen: 19.915 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

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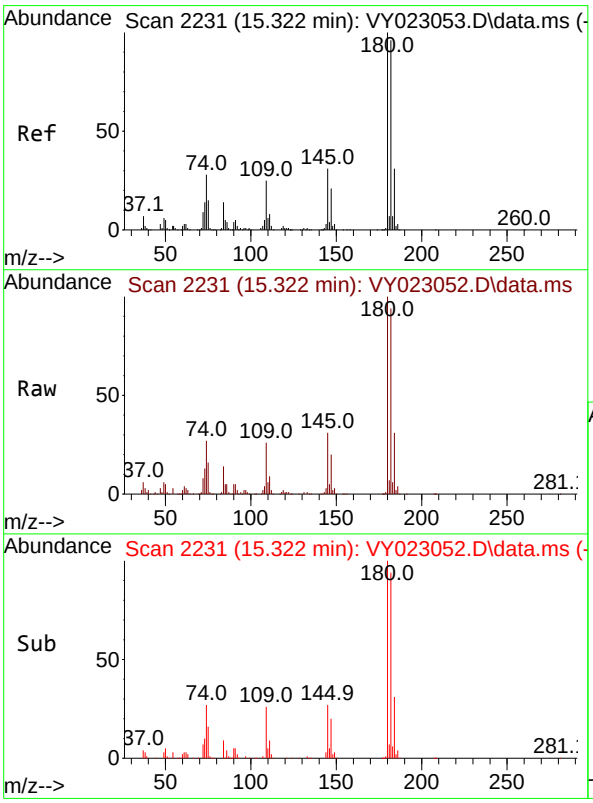
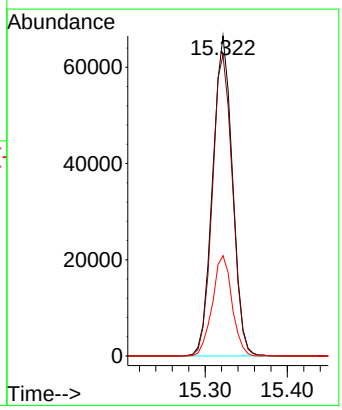


#96
1,2,3-Trichlorobenzene
Concen: 20.258 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



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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)
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

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

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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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

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Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
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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 : VY023053.D
Acq On : 12 Aug 2025 16:02
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
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Instrument :
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ClientSampleId :
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Manual Integrations APPROVED

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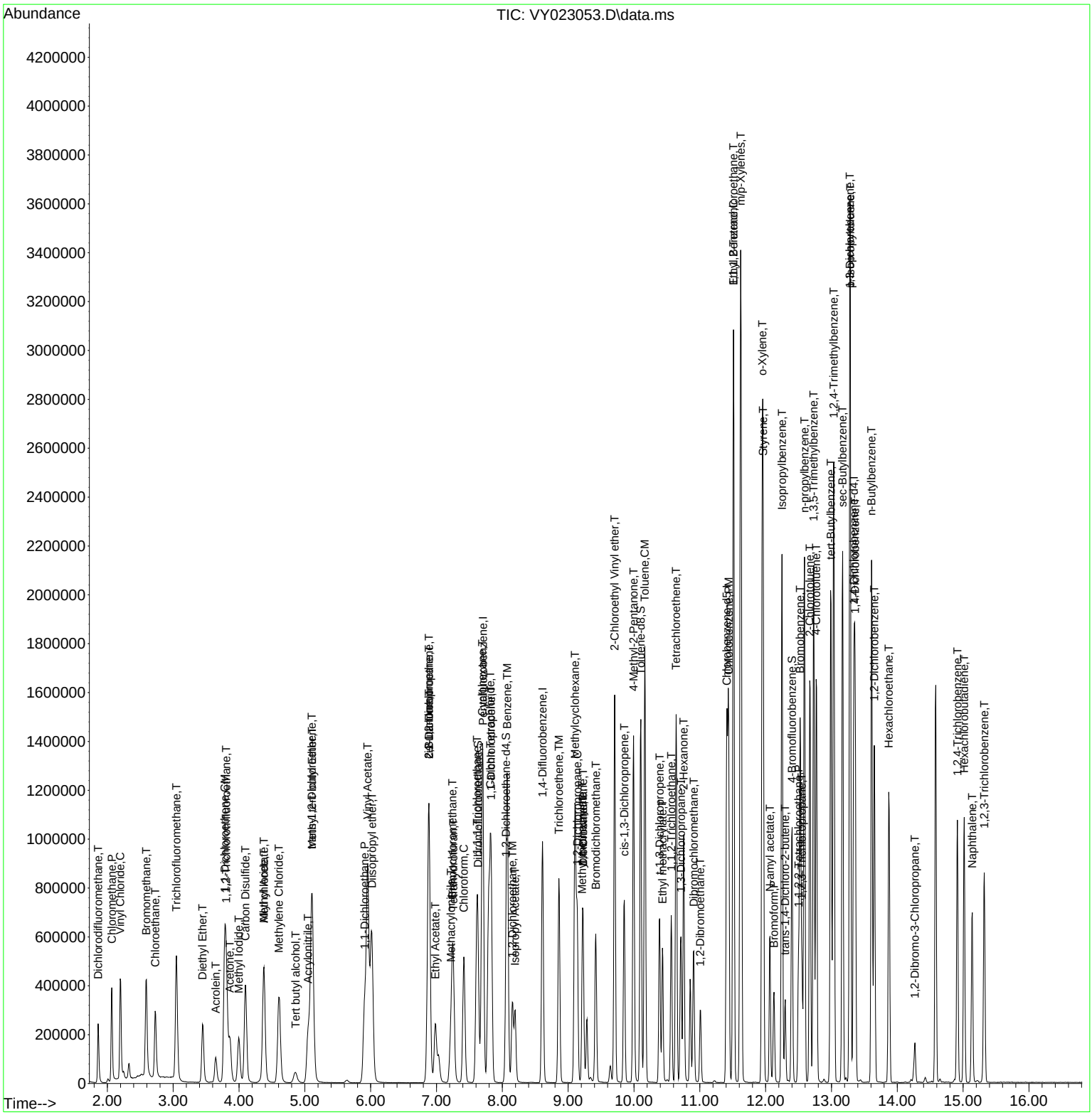

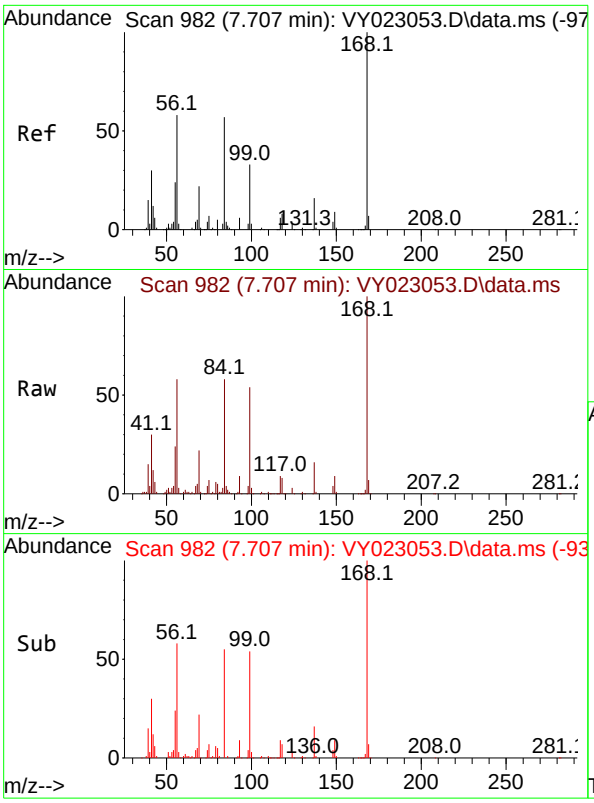

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:168 Resp: 53928

Ion	Ratio	Lower	Upper
168	100		
99	53.5	42.8	64.2

Instrument :
MSVOA_Y
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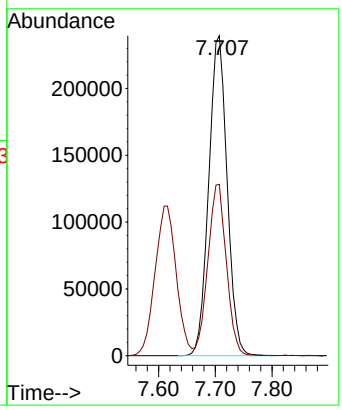
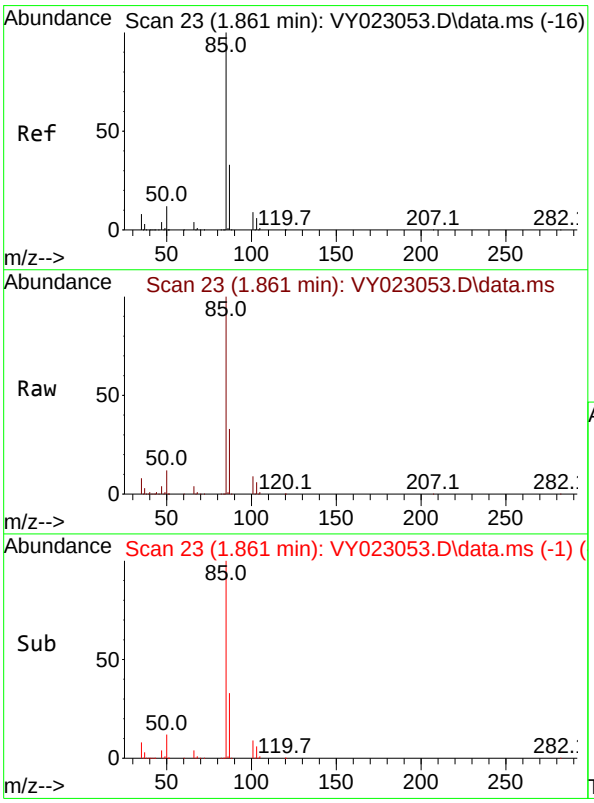
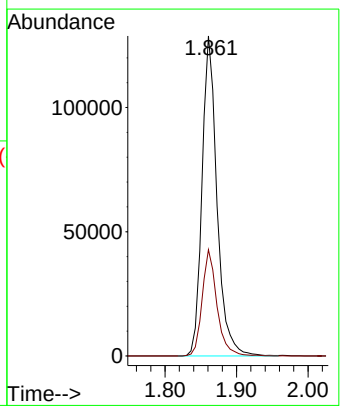


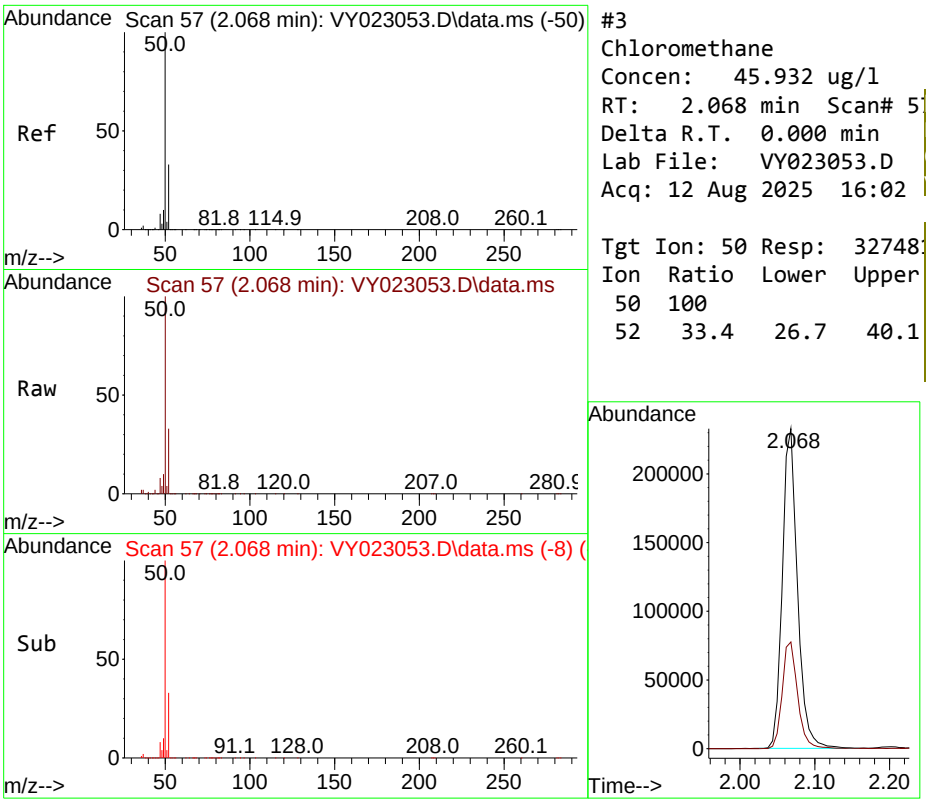


#2
Dichlorodifluoromethane
Concen: 42.677 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

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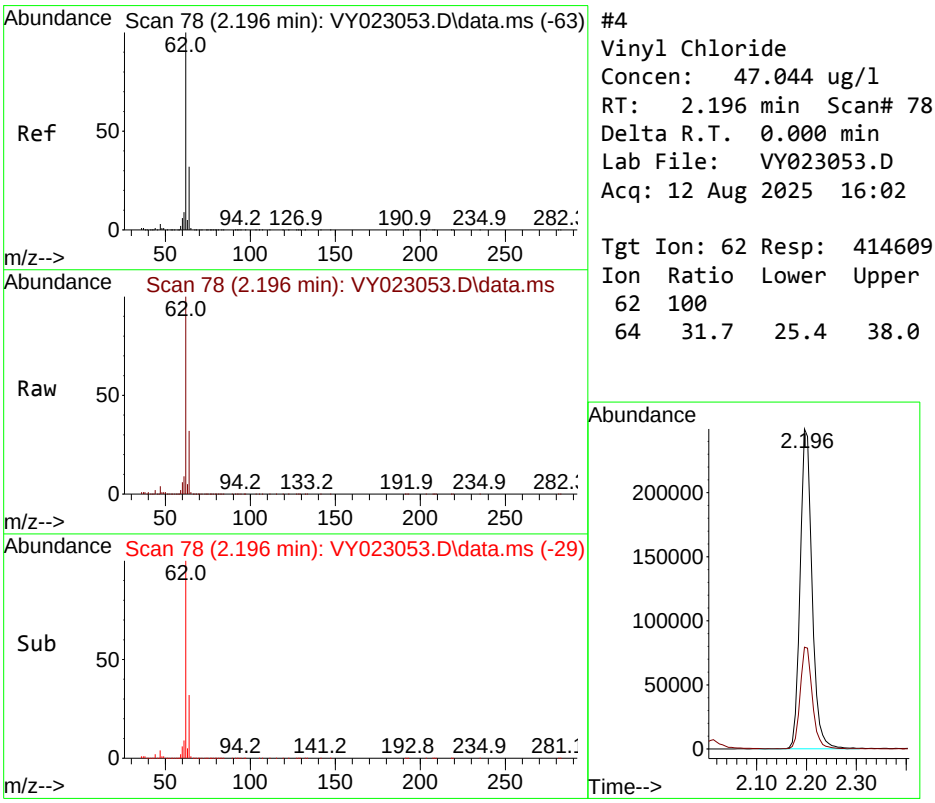
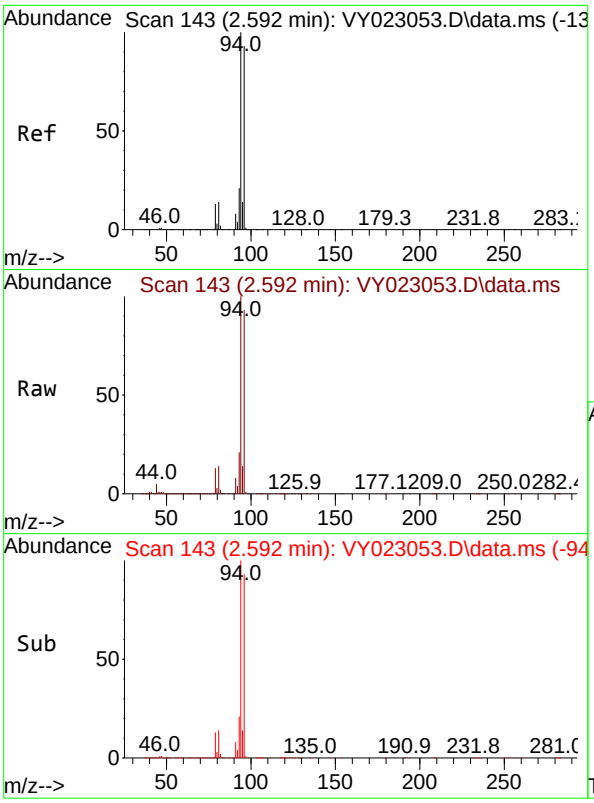


#4
Vinyl Chloride
Concen: 47.044 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
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VSTDICCC050

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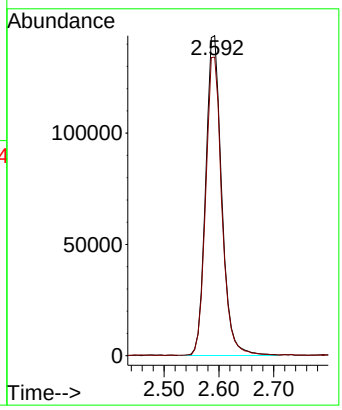
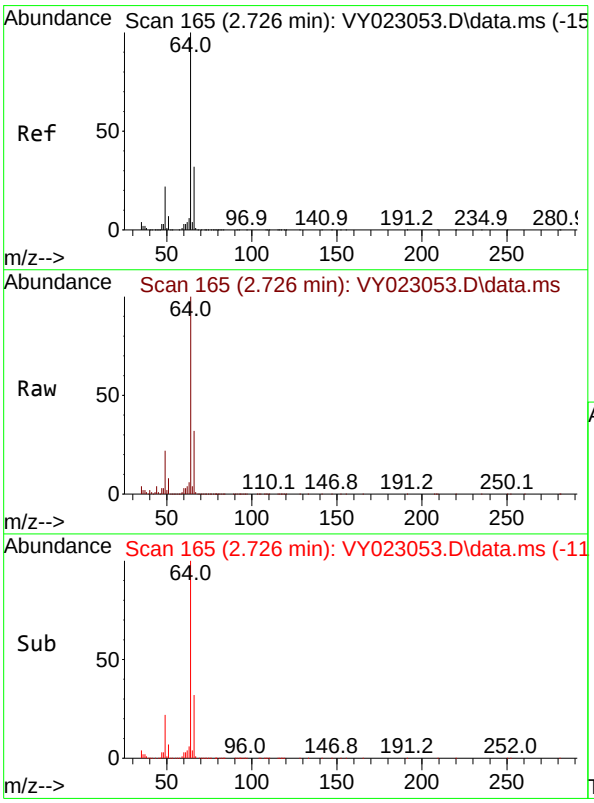
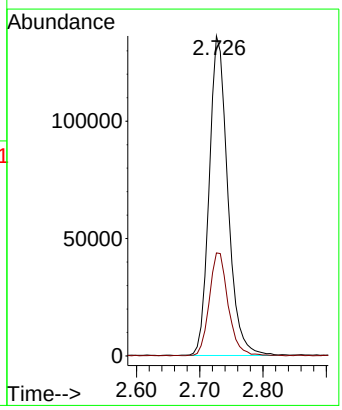


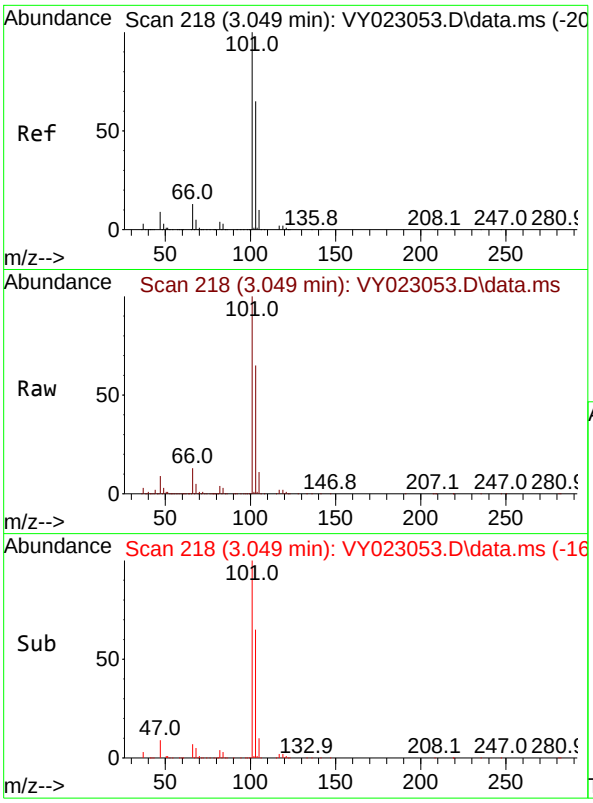


#6
Chloroethane
Concen: 47.394 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 64 Resp: 277698

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.8	38.6

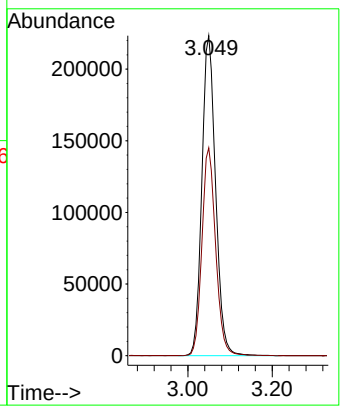




#7
Trichlorofluoromethane
Concen: 47.136 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:101 Resp: 50513

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.9	77.9



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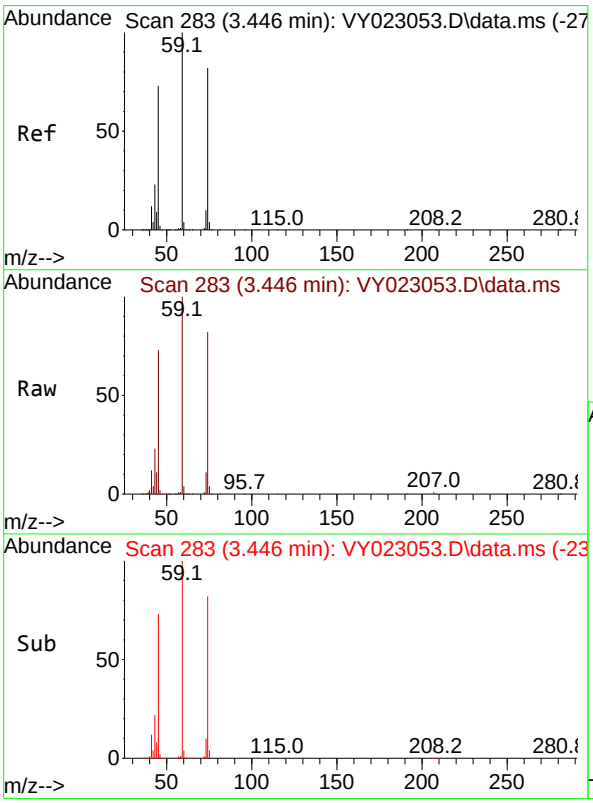
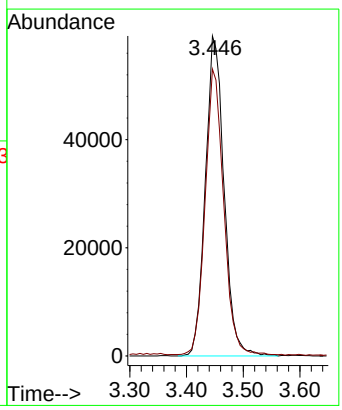
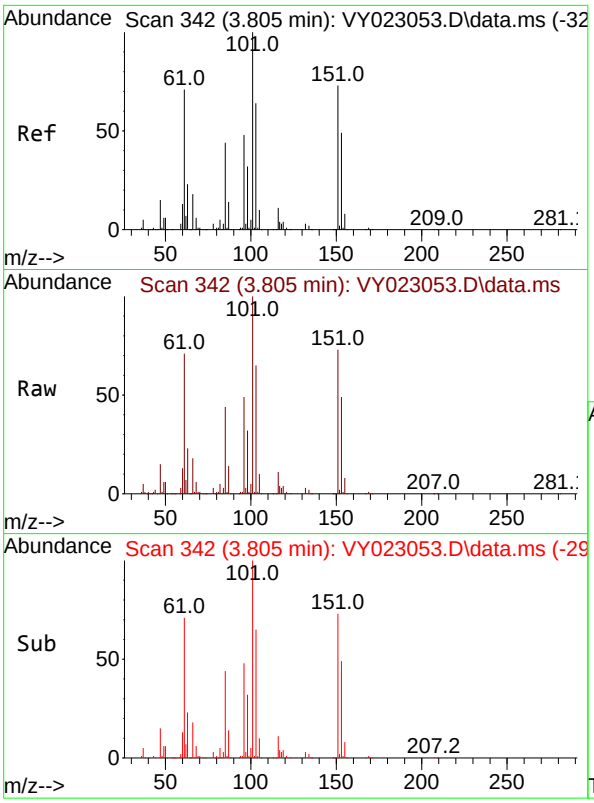


#8
Diethyl Ether
Concen: 47.747 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 74 Resp: 135373

Ion	Ratio	Lower	Upper
74	100		
45	88.8	44.4	133.2

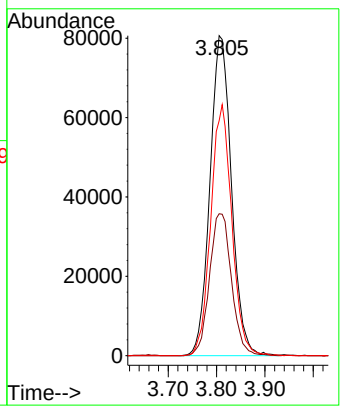




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.109 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
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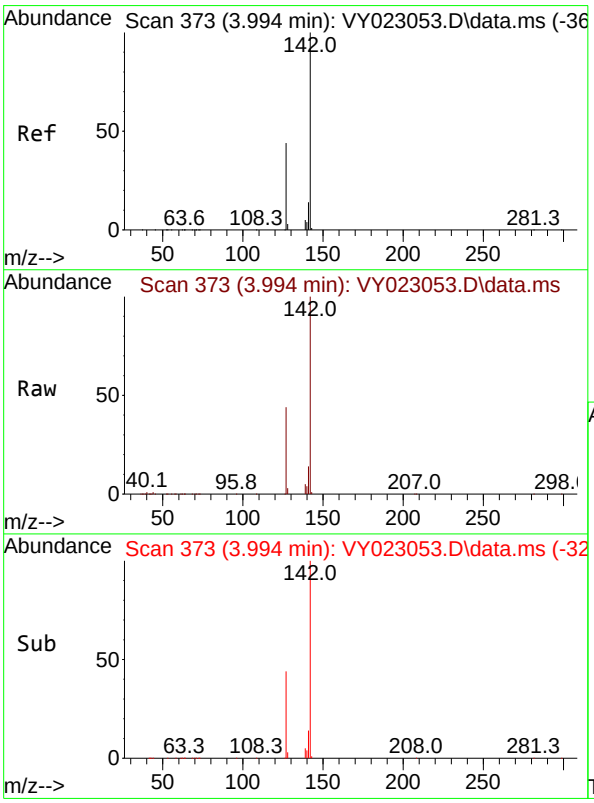
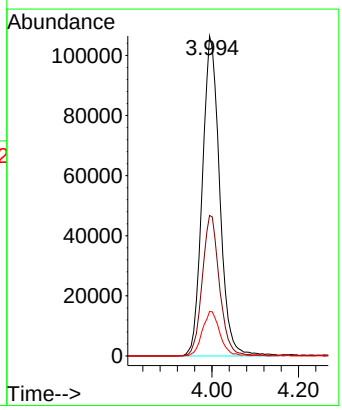
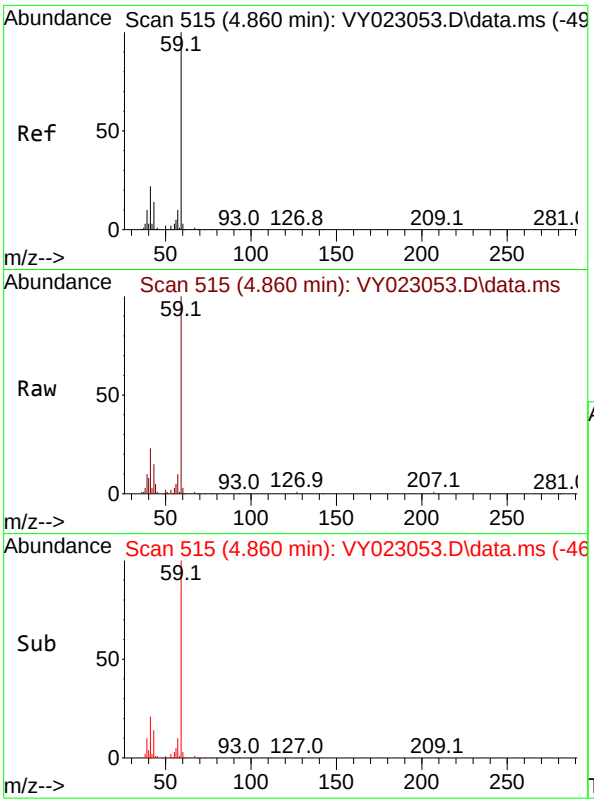


#10
Methyl Iodide
Concen: 51.899 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

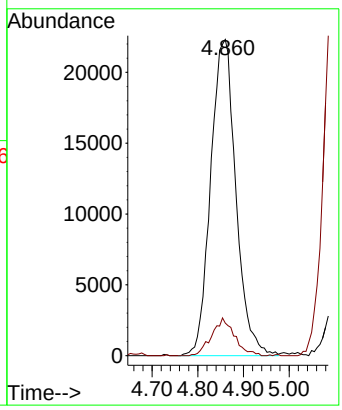




#11
Tert butyl alcohol
Concen: 243.383 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 59 Resp: 8571

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
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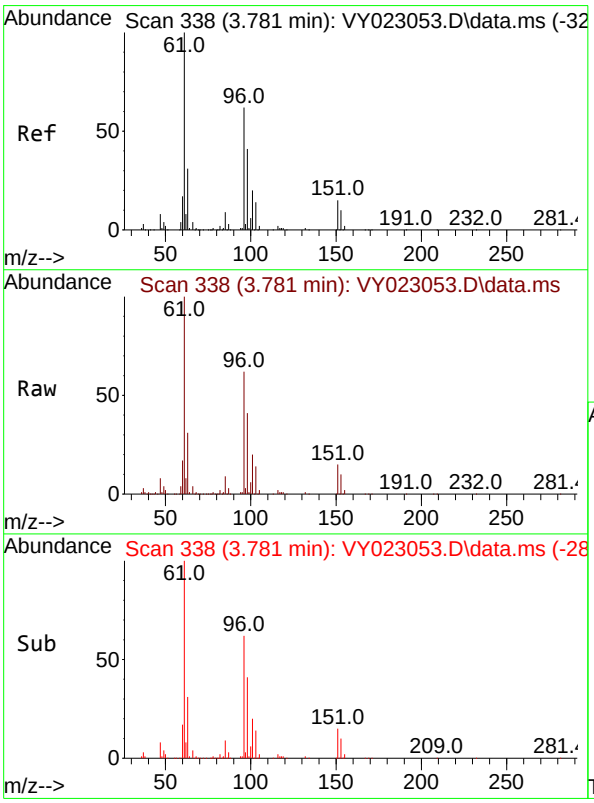
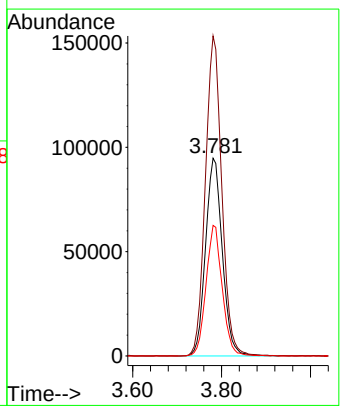
Supervised By :Semsettin Yesilyurt 08/14/2025

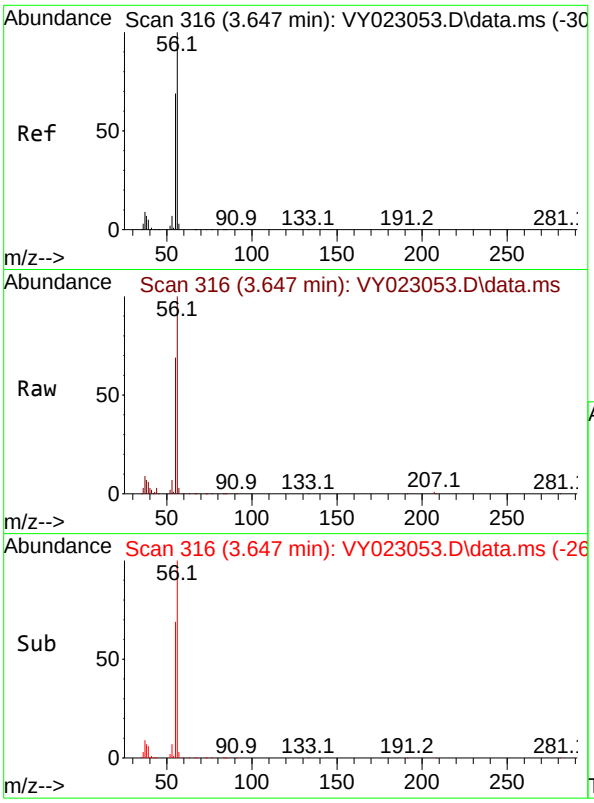


#12
1,1-Dichloroethene
Concen: 48.009 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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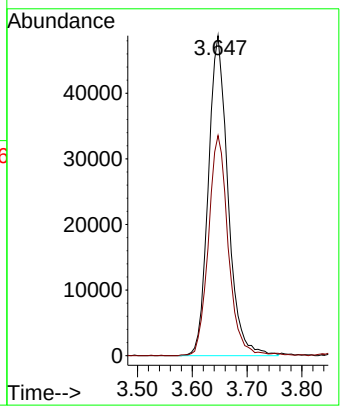
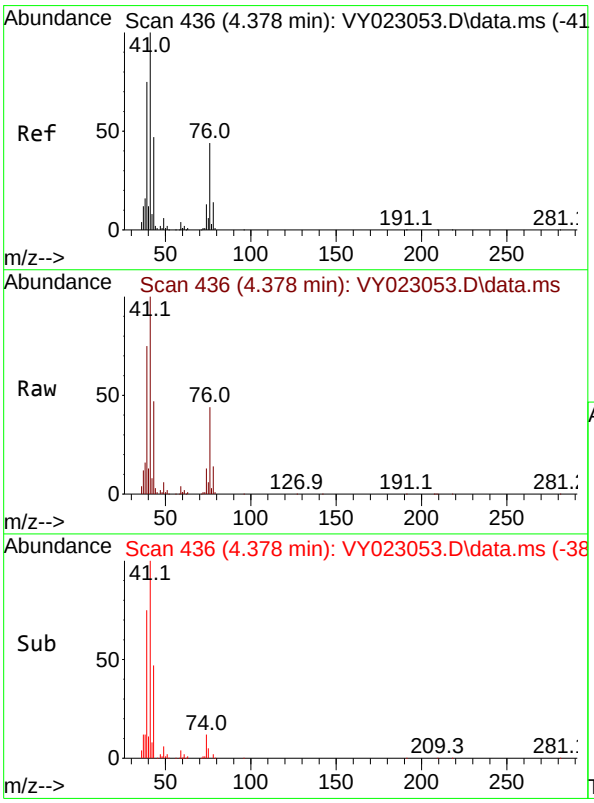
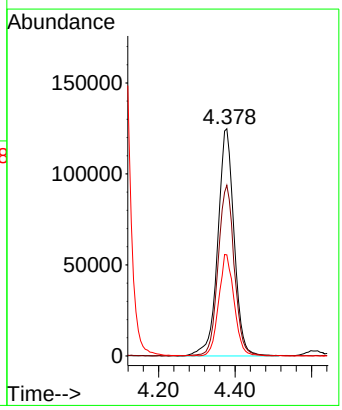


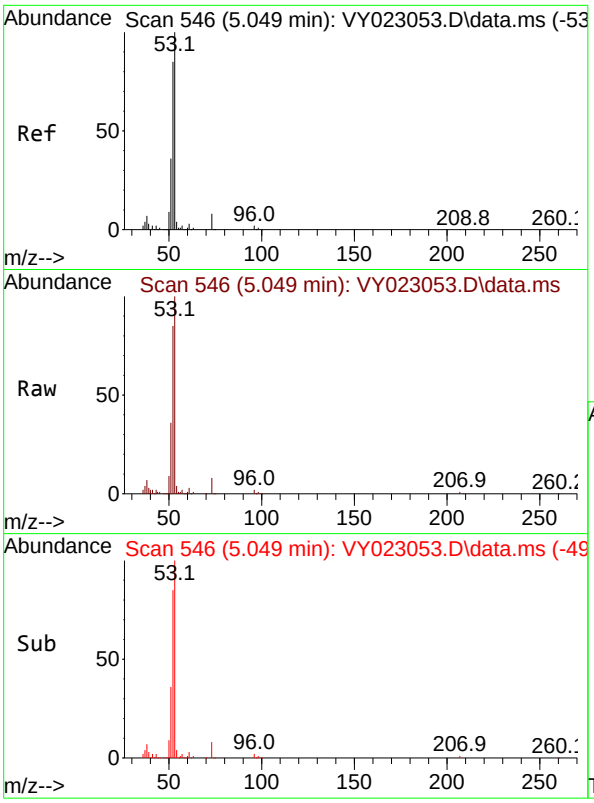


#14
Allyl chloride
Concen: 48.350 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
VSTDICCC050

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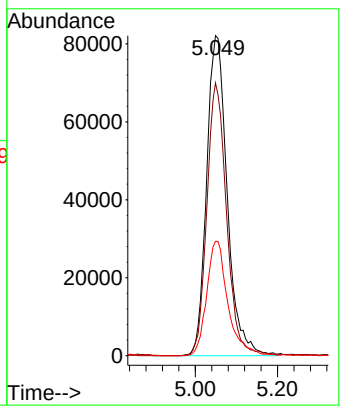
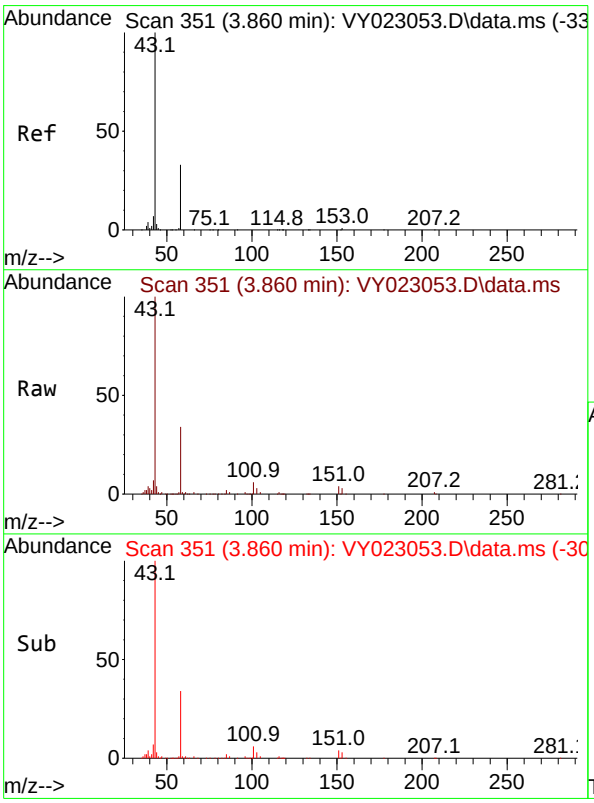
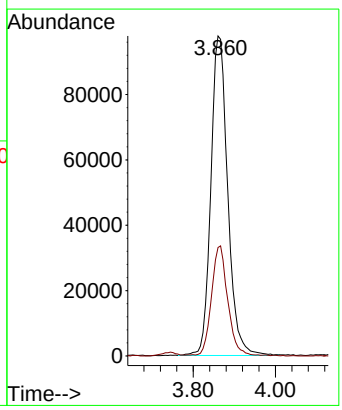


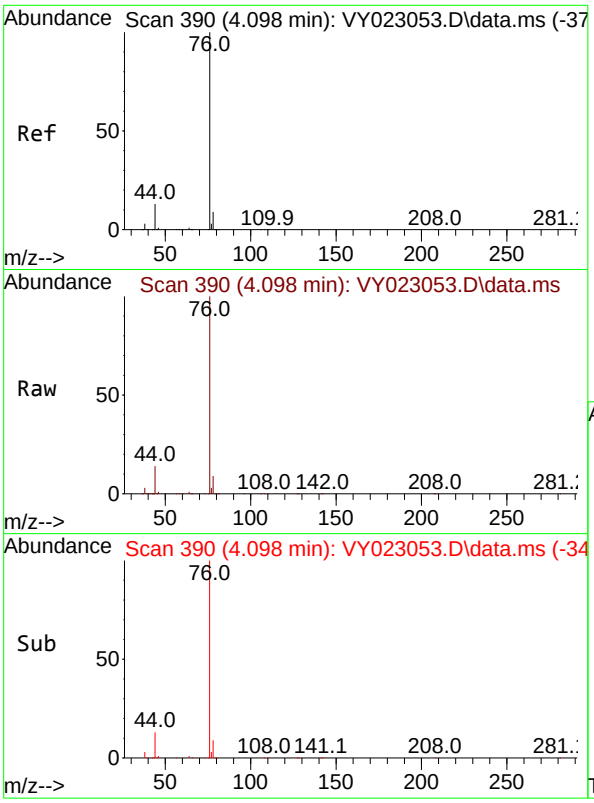


#16
Acetone
Concen: 250.122 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
VSTDICCC050

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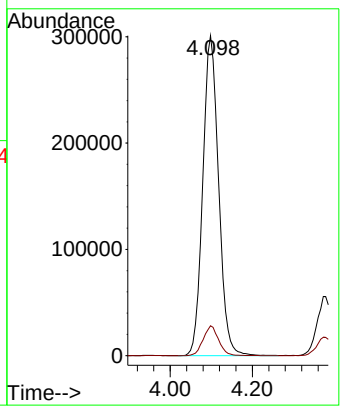
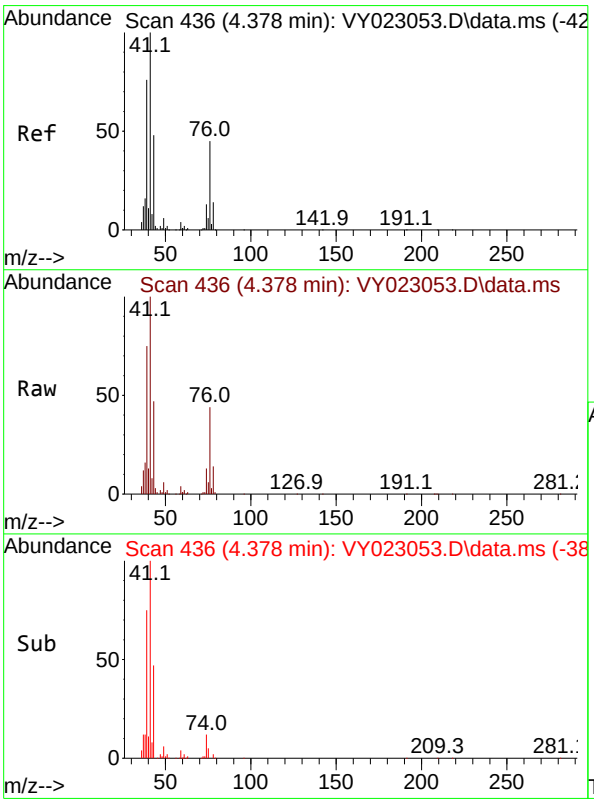
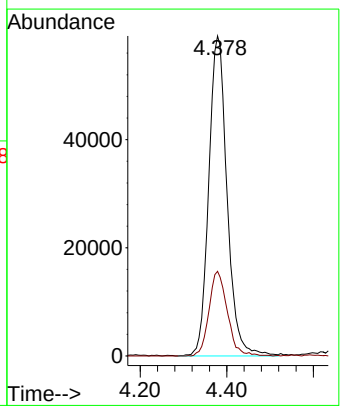


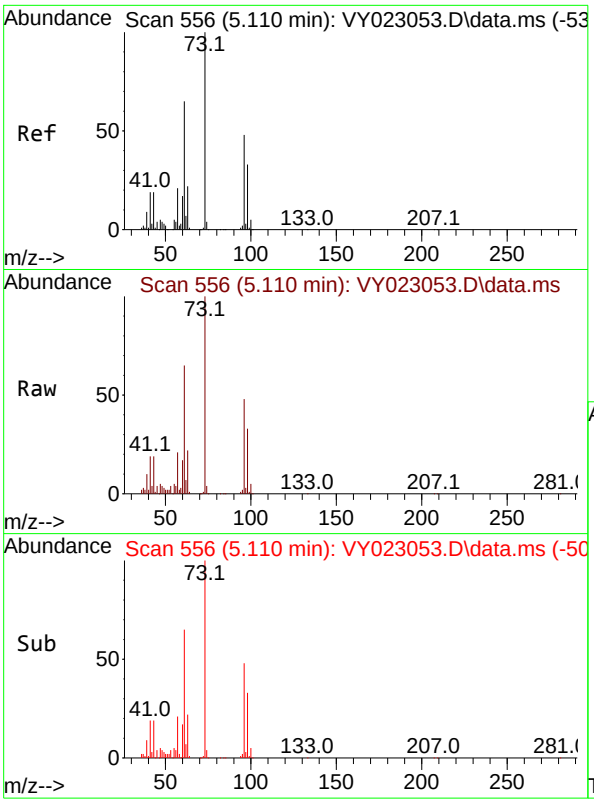


#18
Methyl Acetate
Concen: 52.403 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 173642

Ion	Ratio	Lower	Upper
43	100		
74	26.5	21.2	31.8

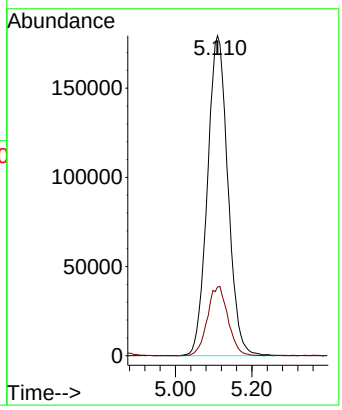




#19
Methyl tert-butyl Ether
Concen: 49.495 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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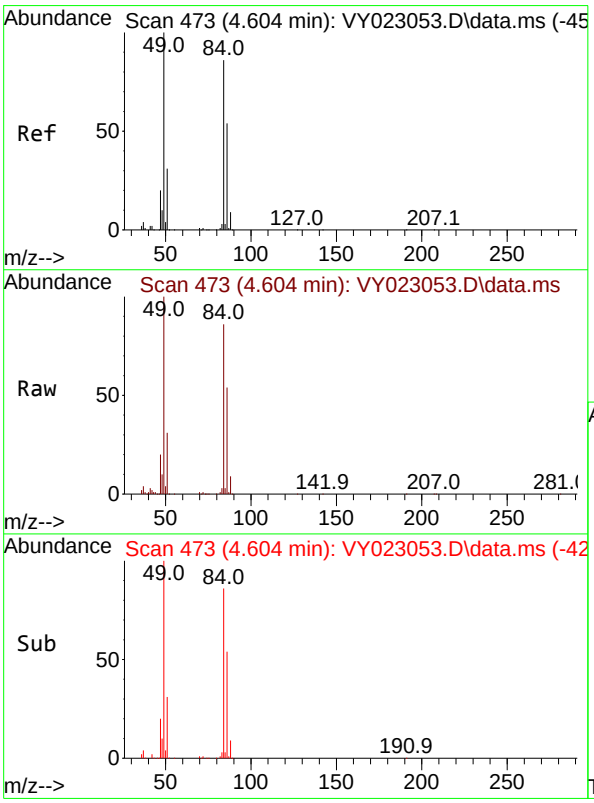
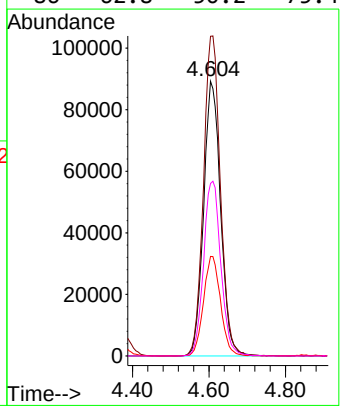
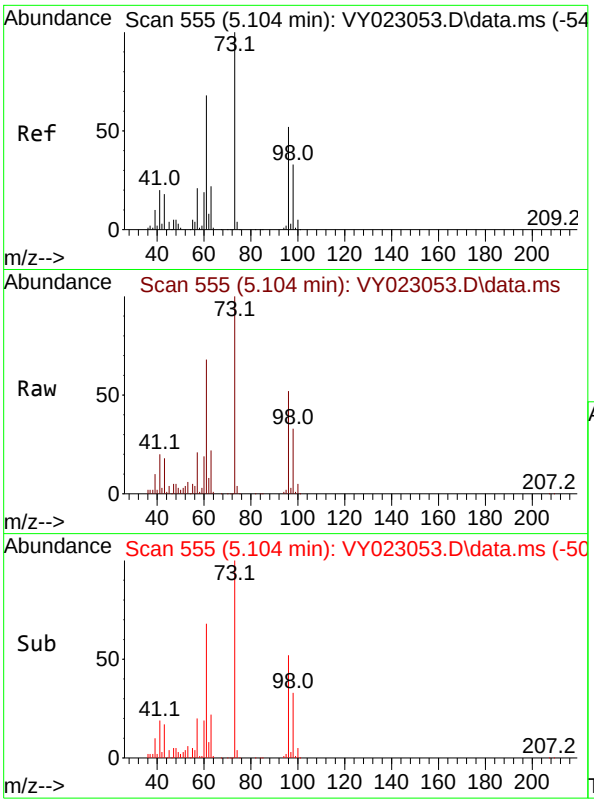


#20
Methylene Chloride
Concen: 47.415 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

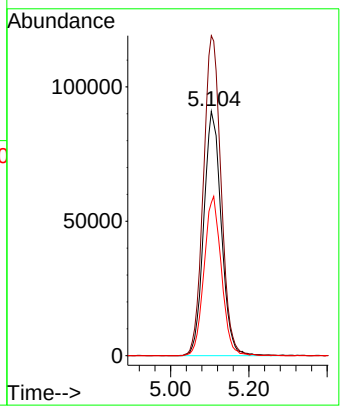




#21
trans-1,2-Dichloroethene
Concen: 48.334 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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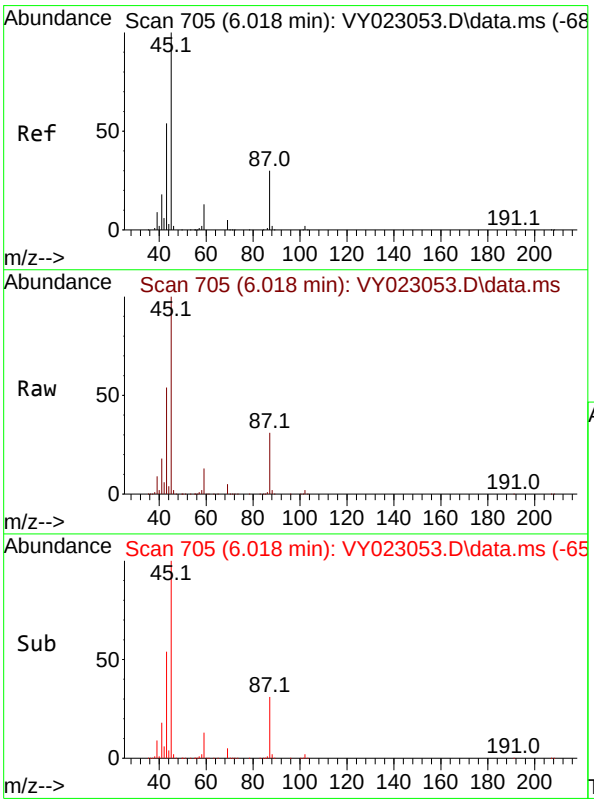
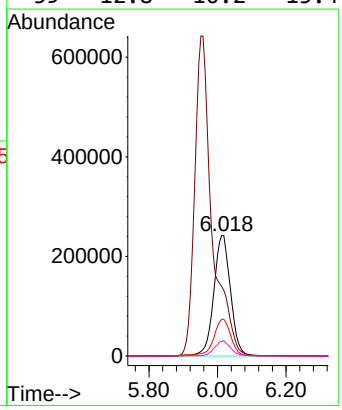
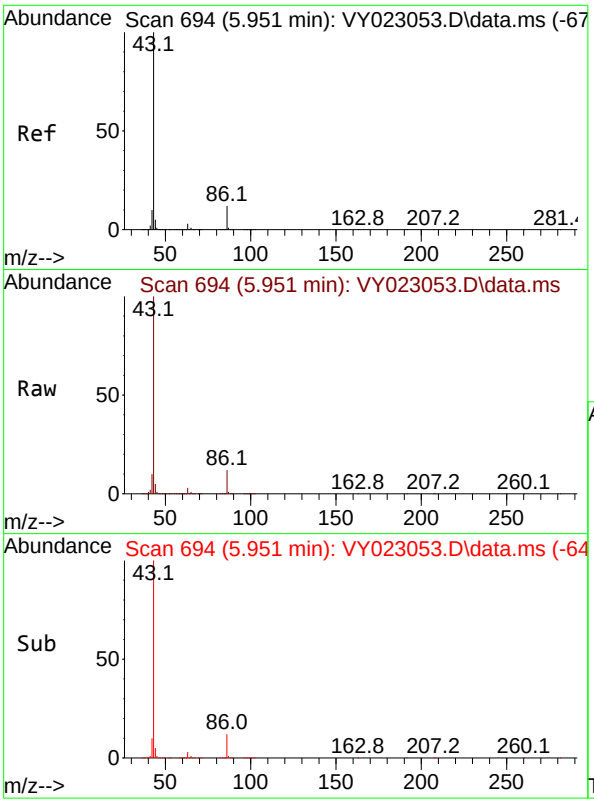


#22
Diisopropyl ether
Concen: 49.070 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

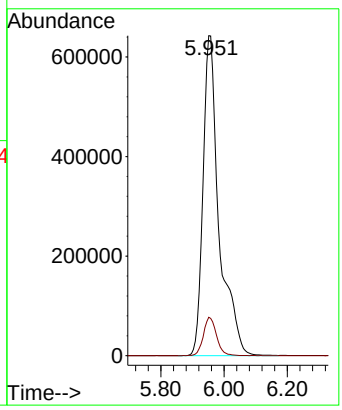




#23
Vinyl Acetate
Concen: 246.849 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 226804

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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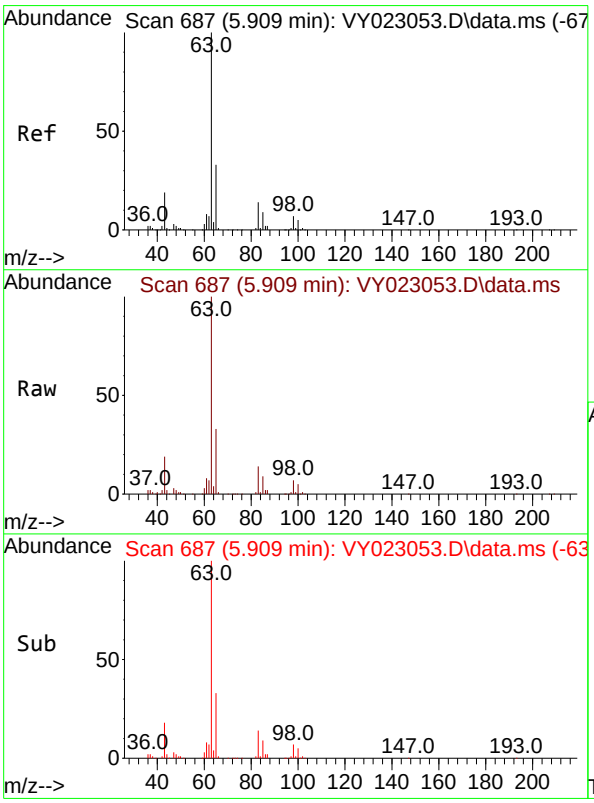
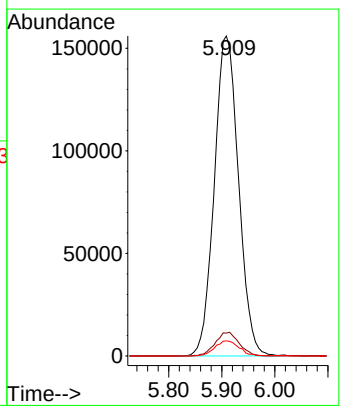
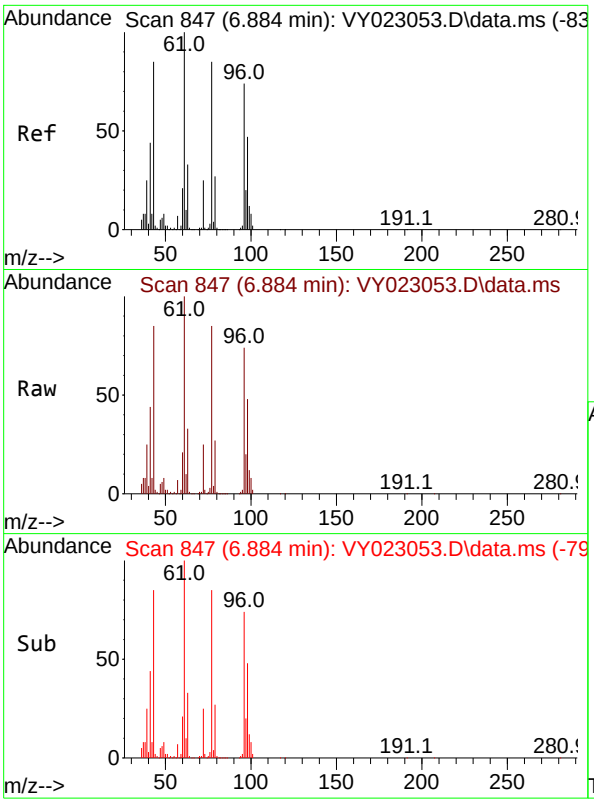


#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

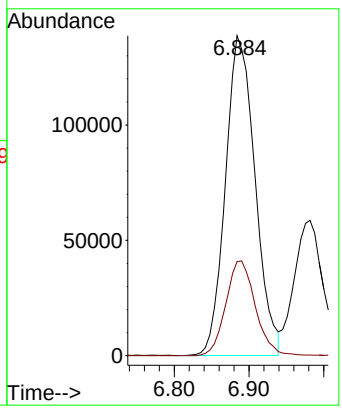




#25
2-Butanone
Concen: 252.715 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 38271

Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.5	35.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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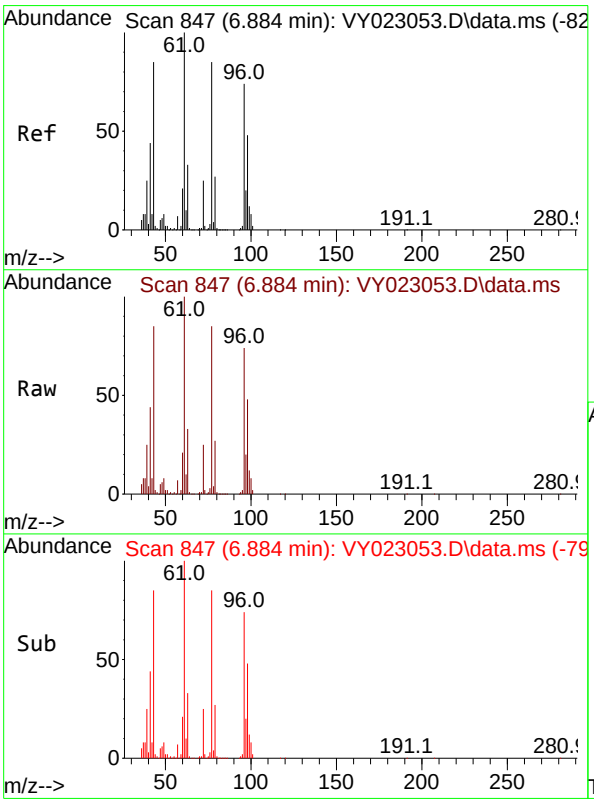
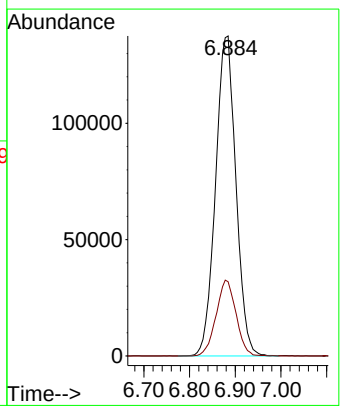
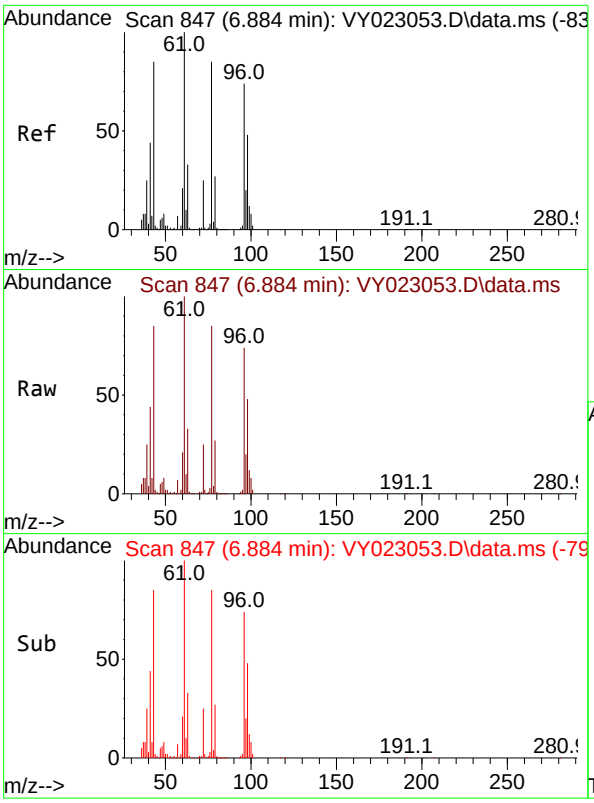


#26
2,2-Dichloropropane
Concen: 48.571 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 77 Resp: 425773

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8

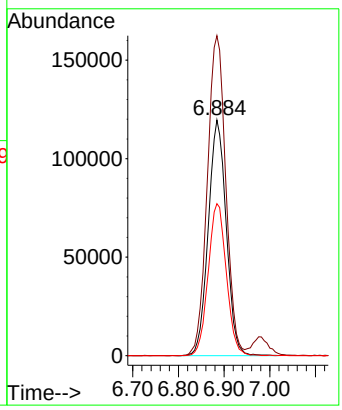




#27
cis-1,2-Dichloroethene
Concen: 48.474 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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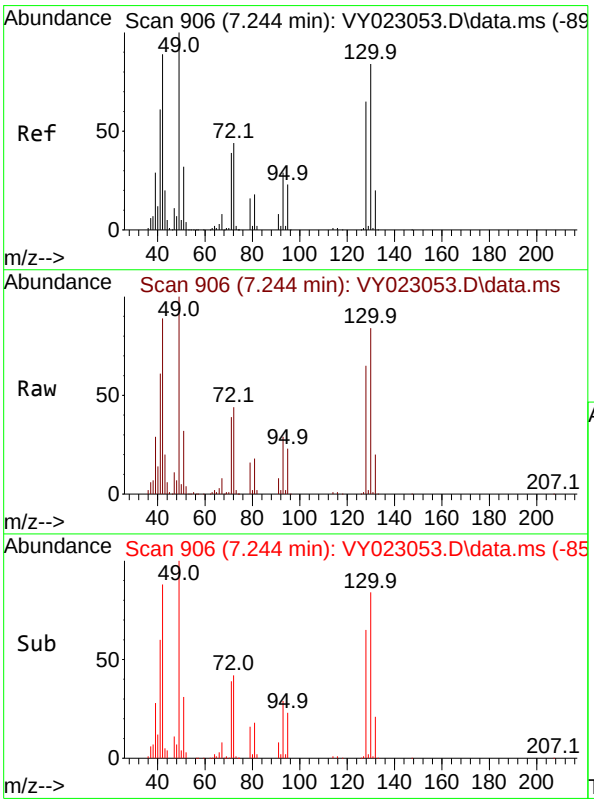
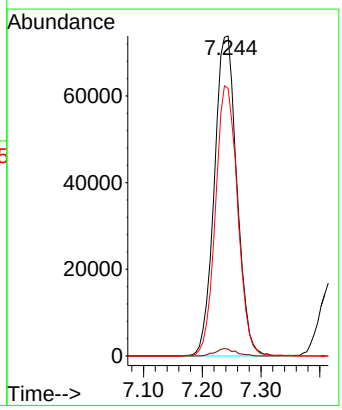
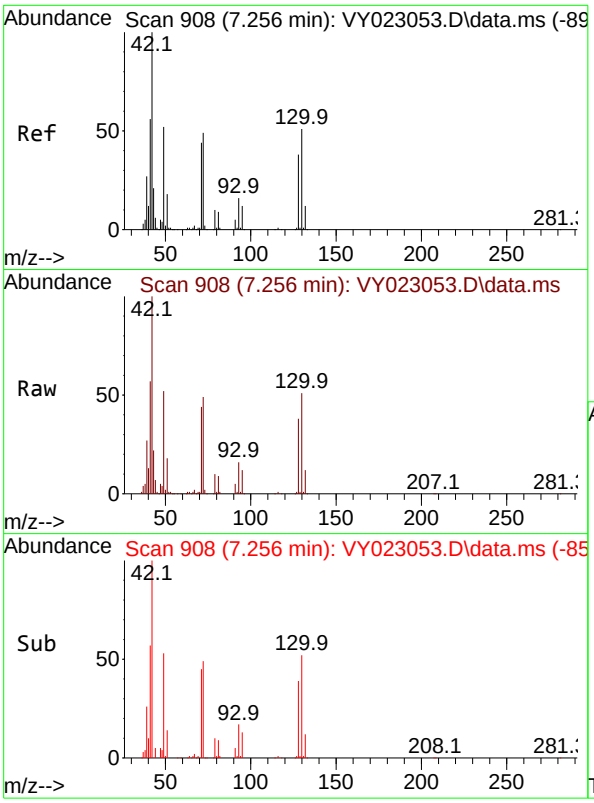


#28
Bromochloromethane
Concen: 48.795 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

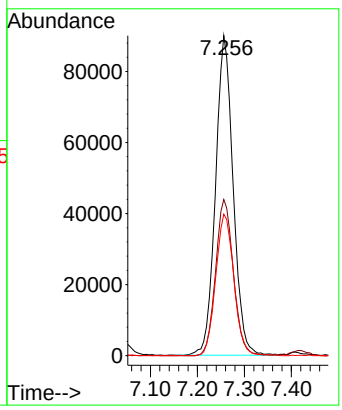




#29
Tetrahydrofuran
Concen: 250.523 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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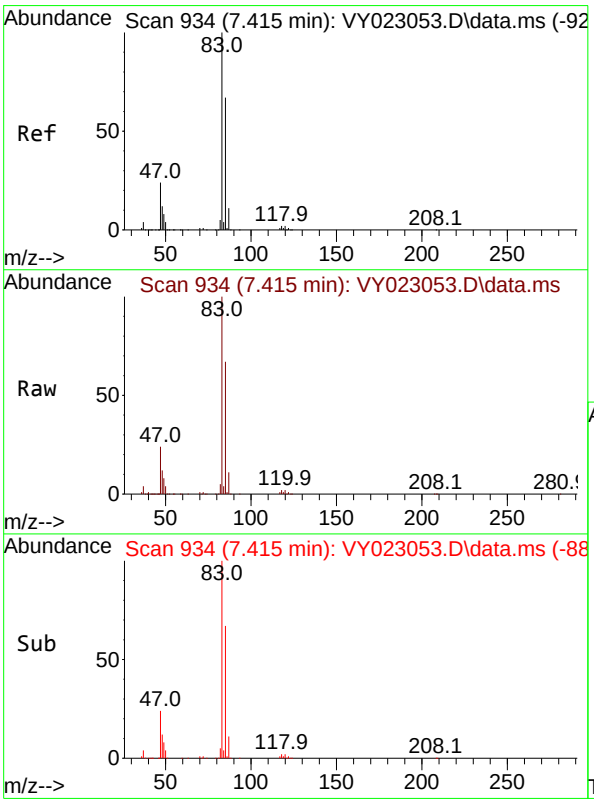
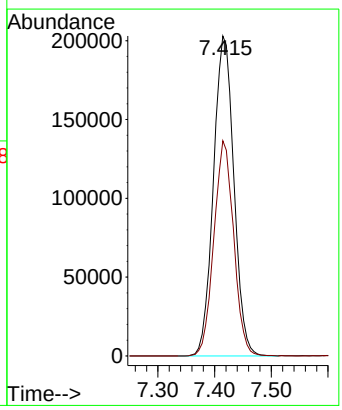
Supervised By :Semsettin Yesilyurt 08/14/2025

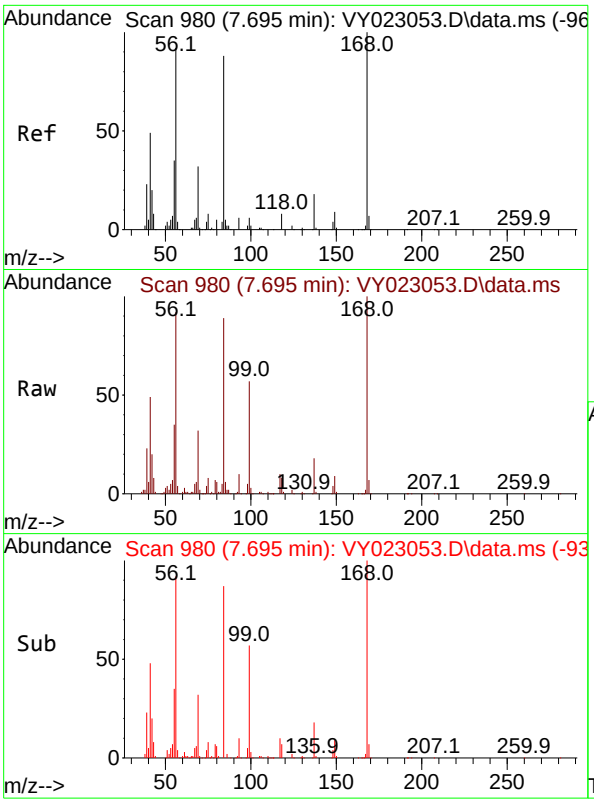


#30
Chloroform
Concen: 48.547 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 508641

Ion	Ratio	Lower	Upper
83	100		
85	67.3	53.8	80.8

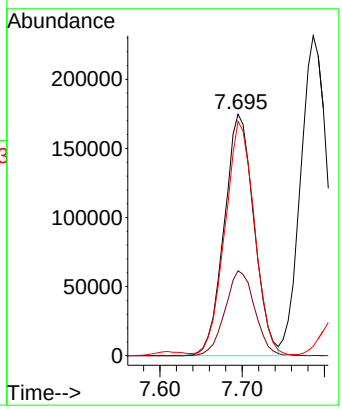




#31
Cyclohexane
Concen: 45.989 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
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ClientSampleId :
VSTDICCC050

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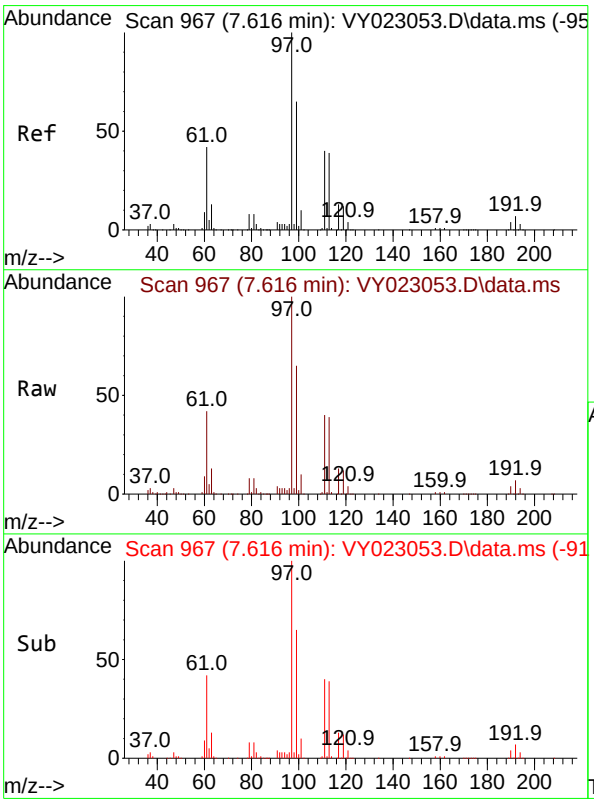
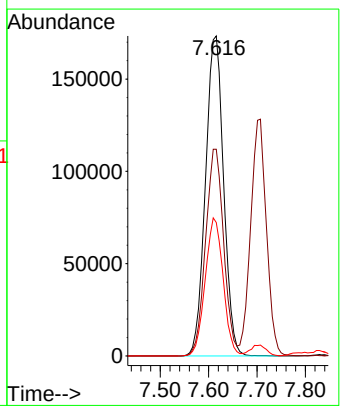
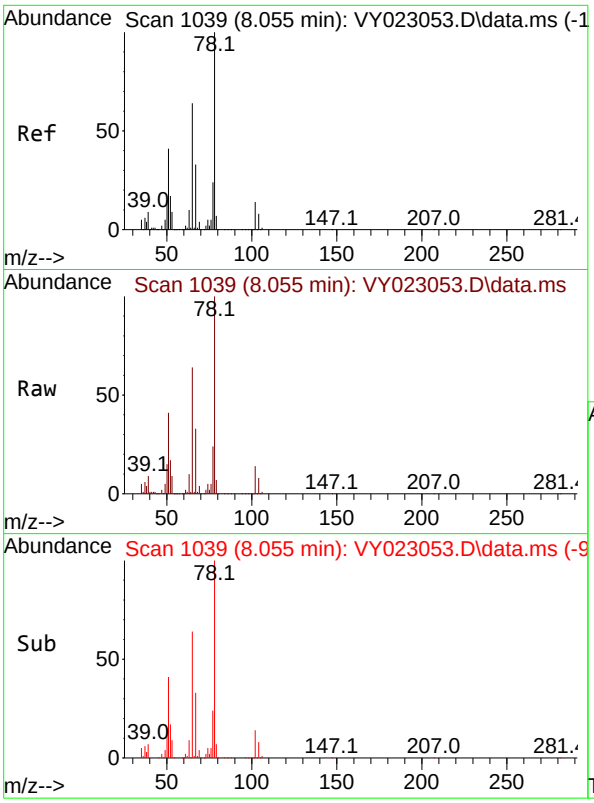


#32
1,1,1-Trichloroethane
Concen: 48.569 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

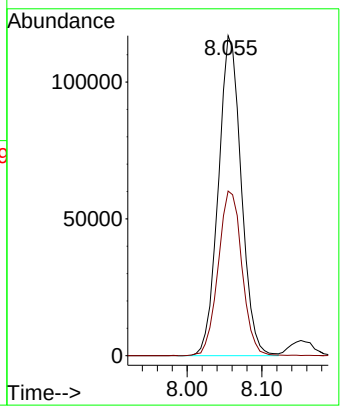




#33
1,2-Dichloroethane-d4
Concen: 48.455 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 65 Resp: 24904

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8



Instrument :
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ClientSampleId :
VSTDICCC050

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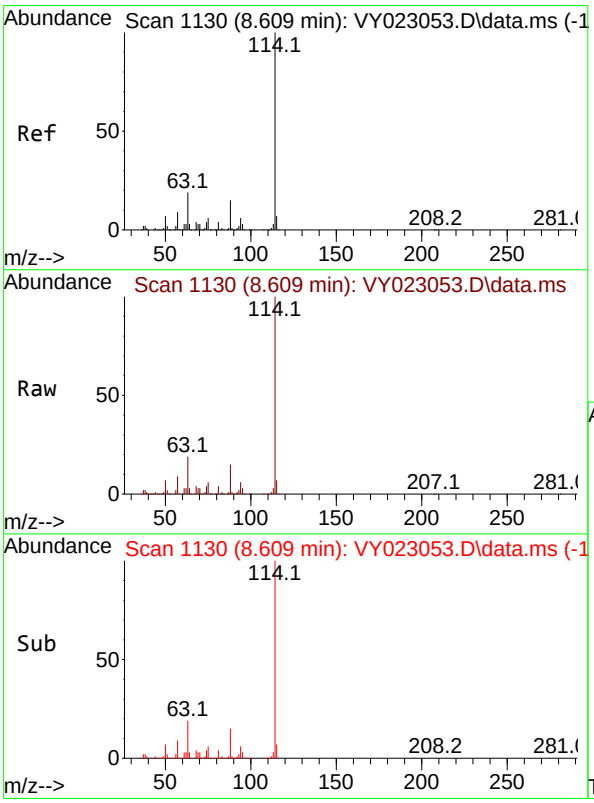
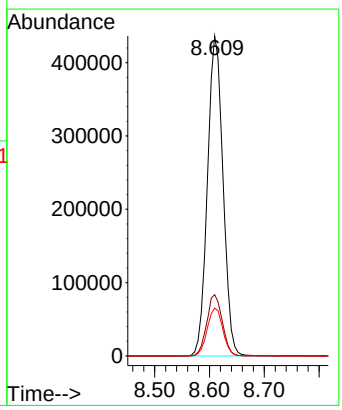
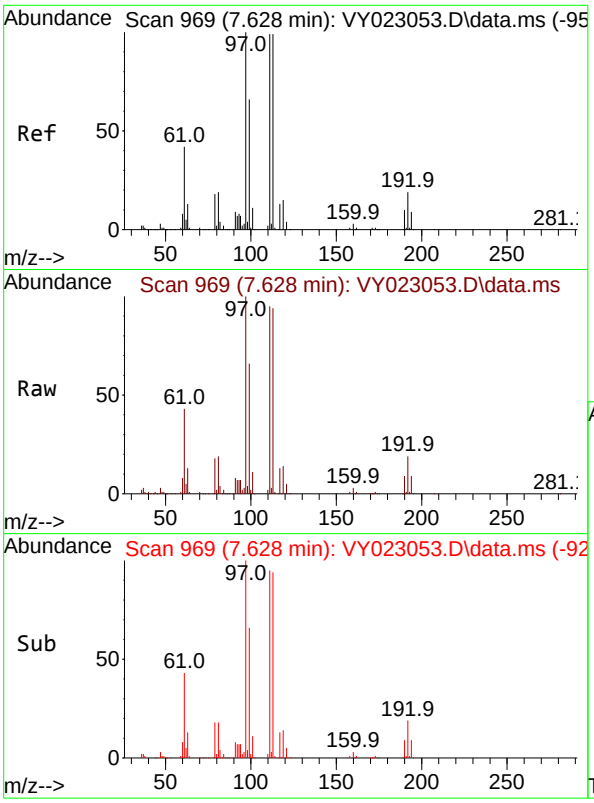


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

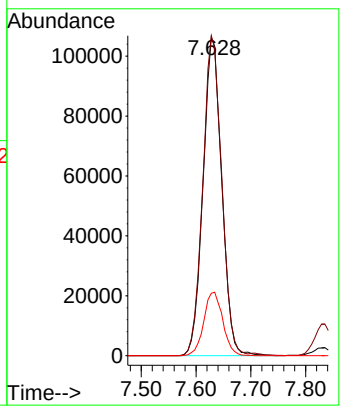




#35
Dibromofluoromethane
Concen: 49.010 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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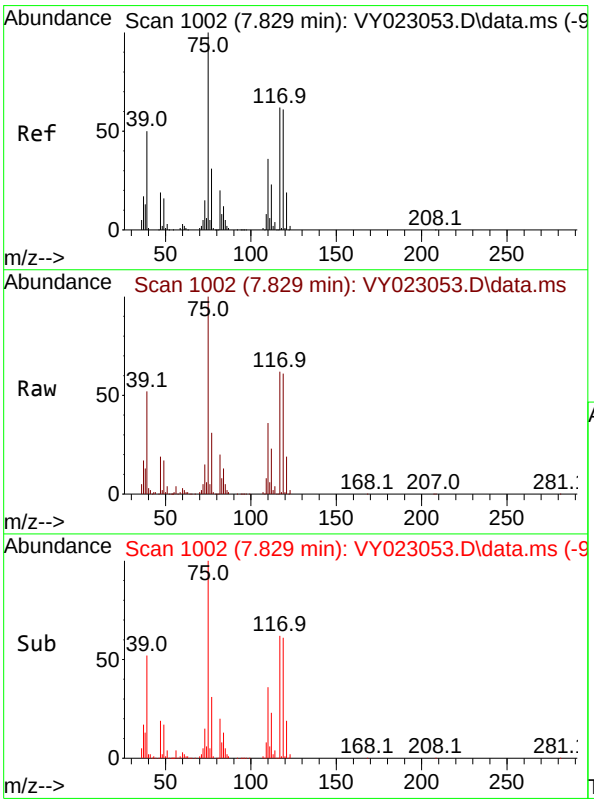
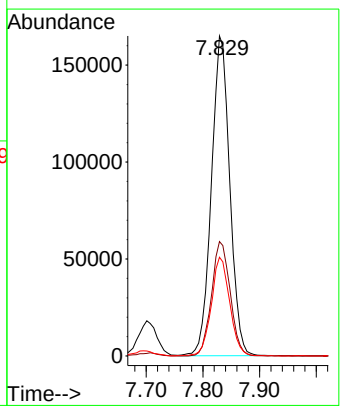
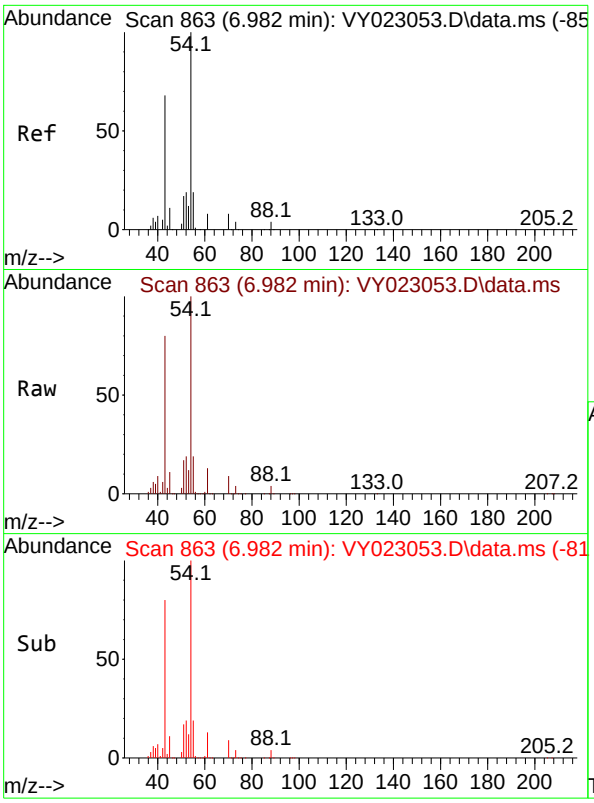


#36
1,1-Dichloropropene
Concen: 48.734 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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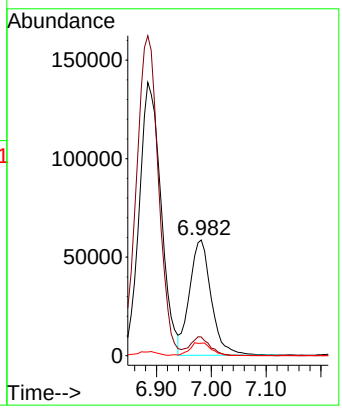
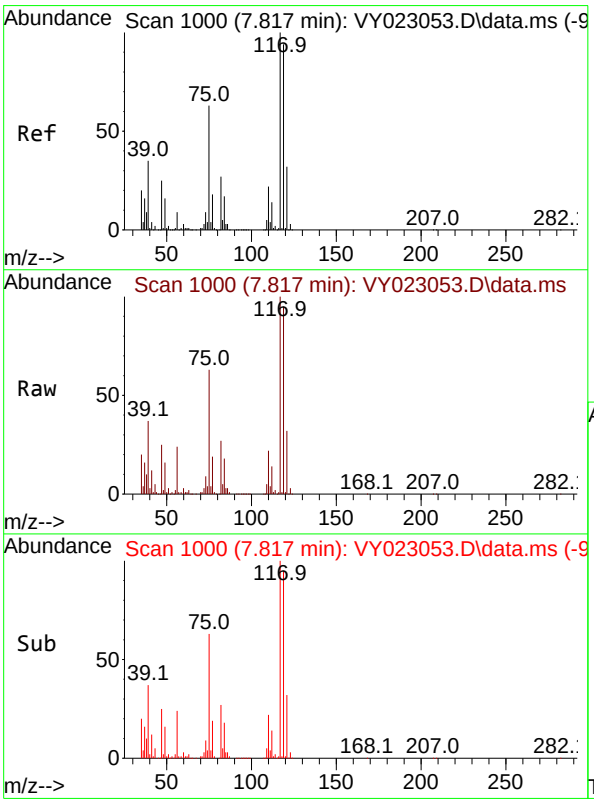
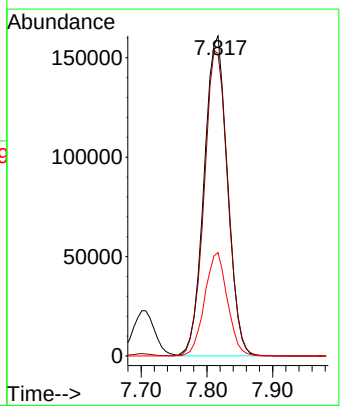


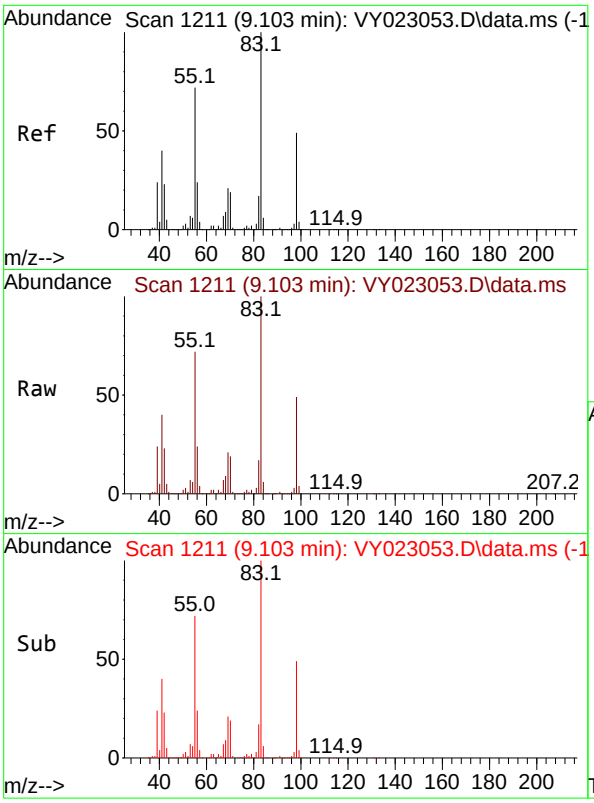


#38
Carbon Tetrachloride
Concen: 48.285 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

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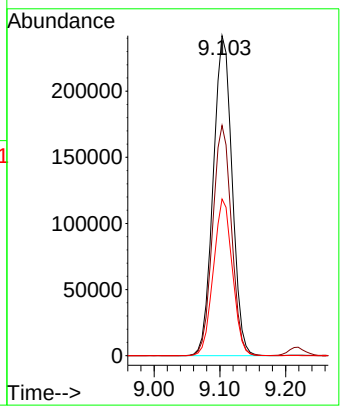
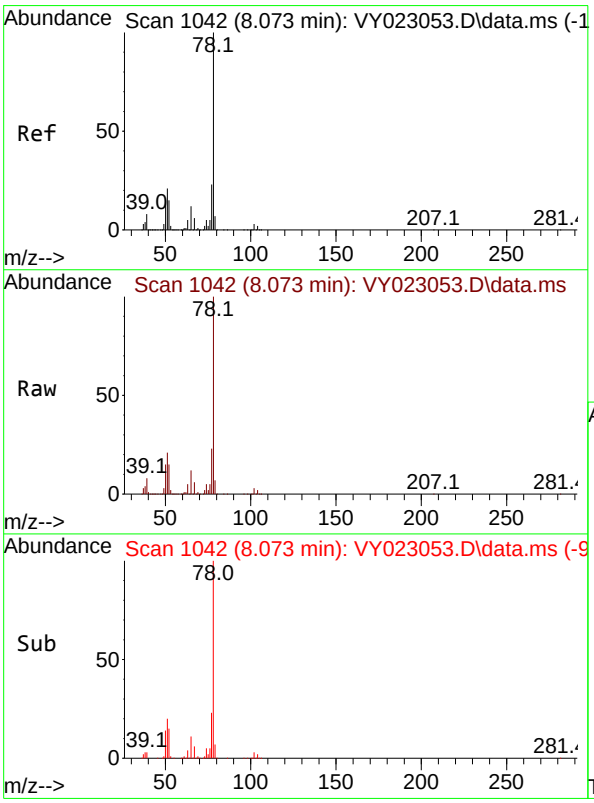
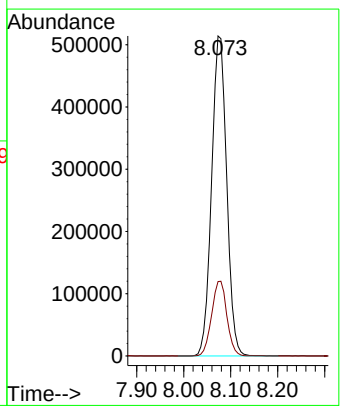


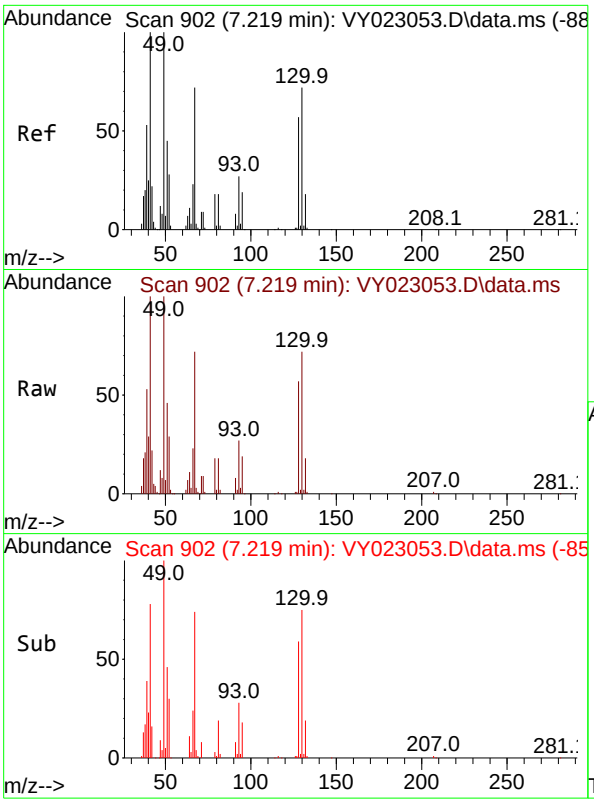


#40
Benzene
Concen: 48.683 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 78 Resp: 1142910

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	28.0

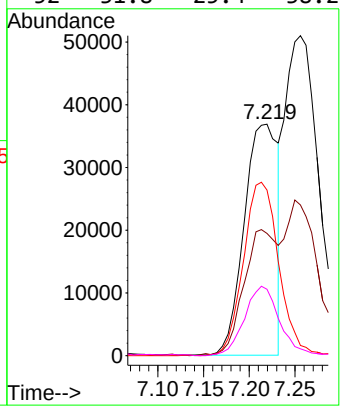




#41
Methacrylonitrile
Concen: 50.916 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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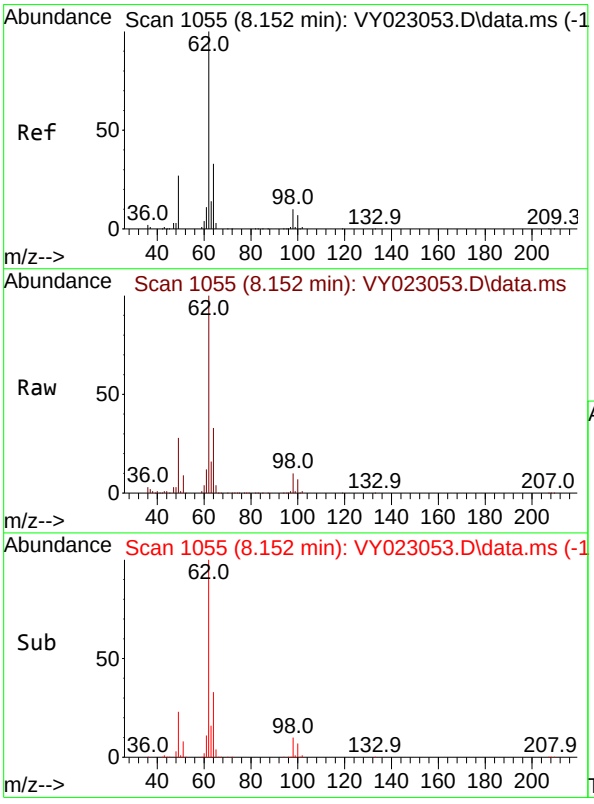
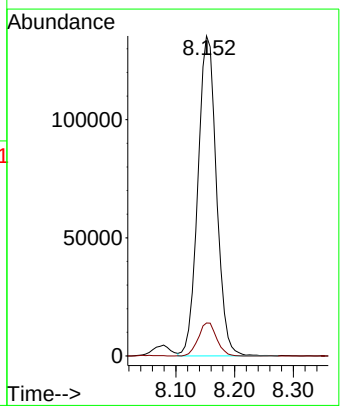
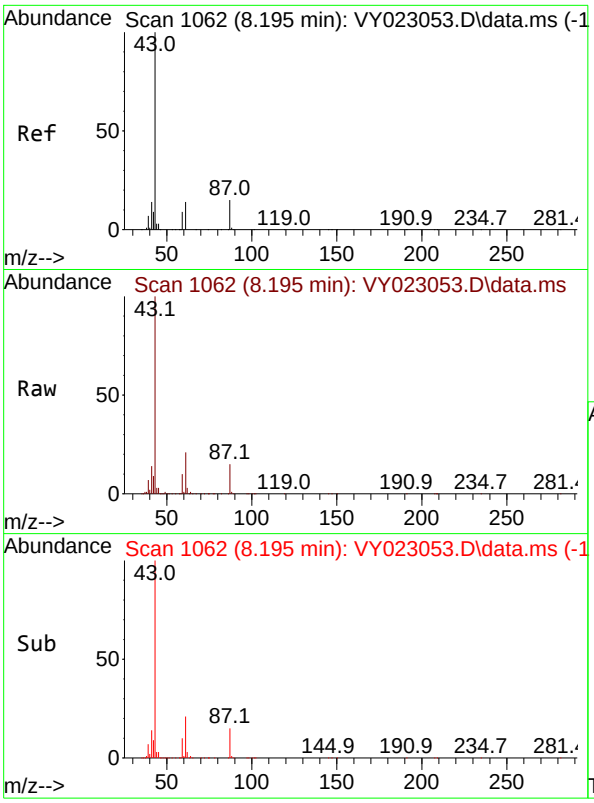


#42
1,2-Dichloroethane
Concen: 48.627 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
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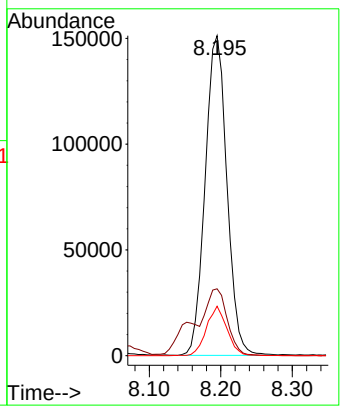
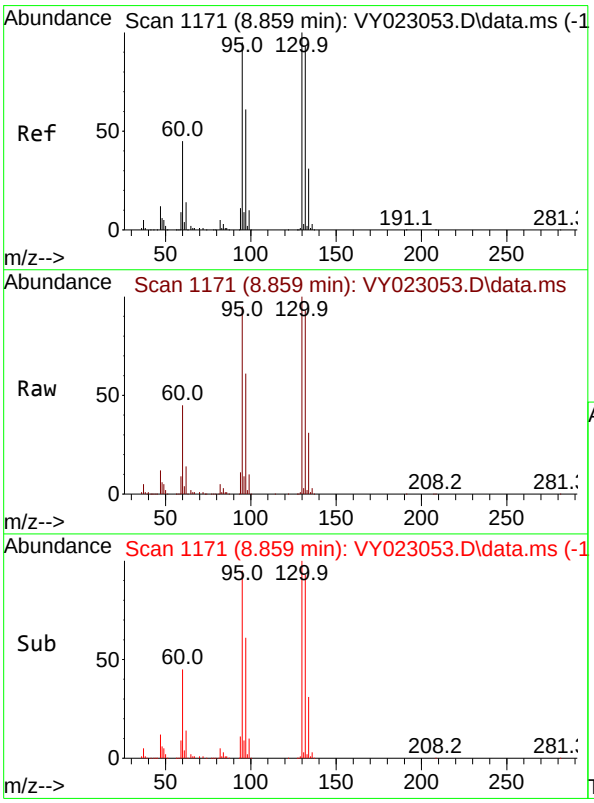
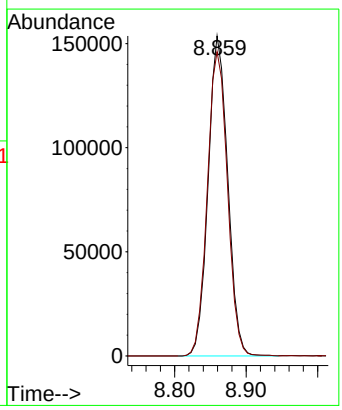


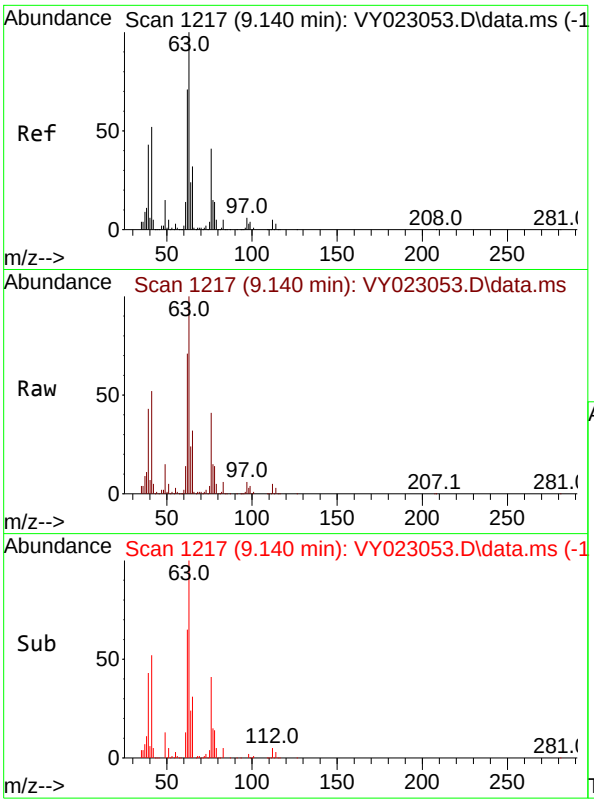


#44
Trichloroethene
Concen: 48.199 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:130 Resp: 292421

Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	190.2

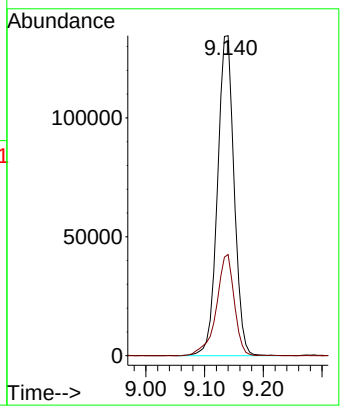




#45
1,2-Dichloropropane
Concen: 48.938 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 26435

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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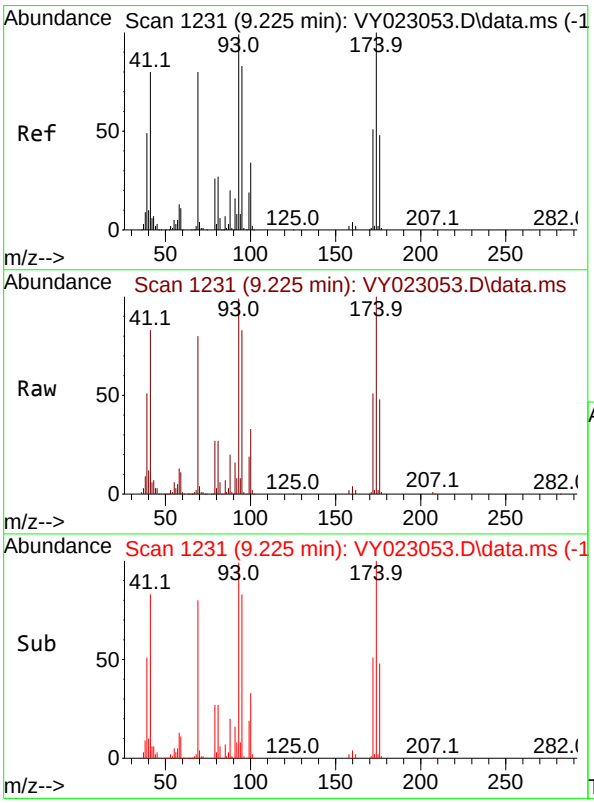
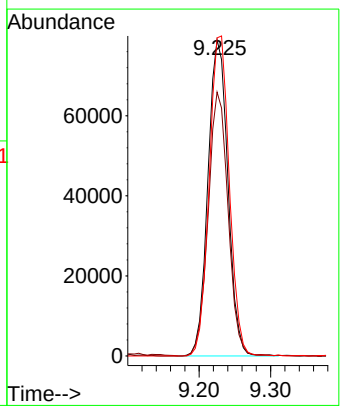
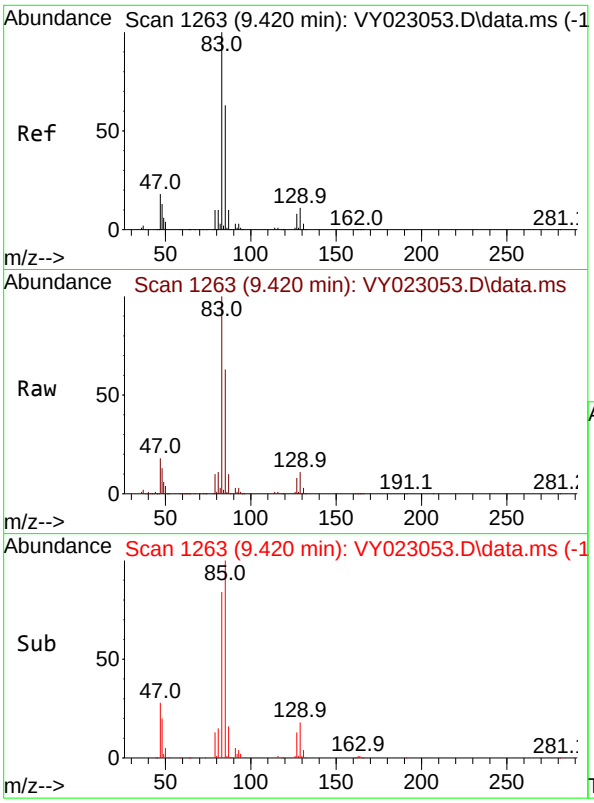


#46
Dibromomethane
Concen: 49.291 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

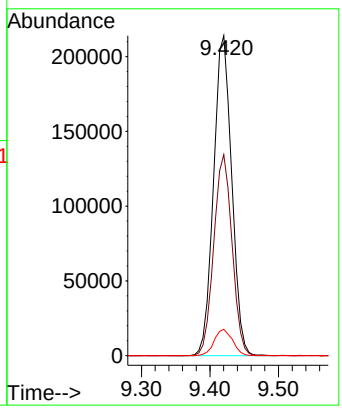




#47
Bromodichloromethane
Concen: 49.327 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

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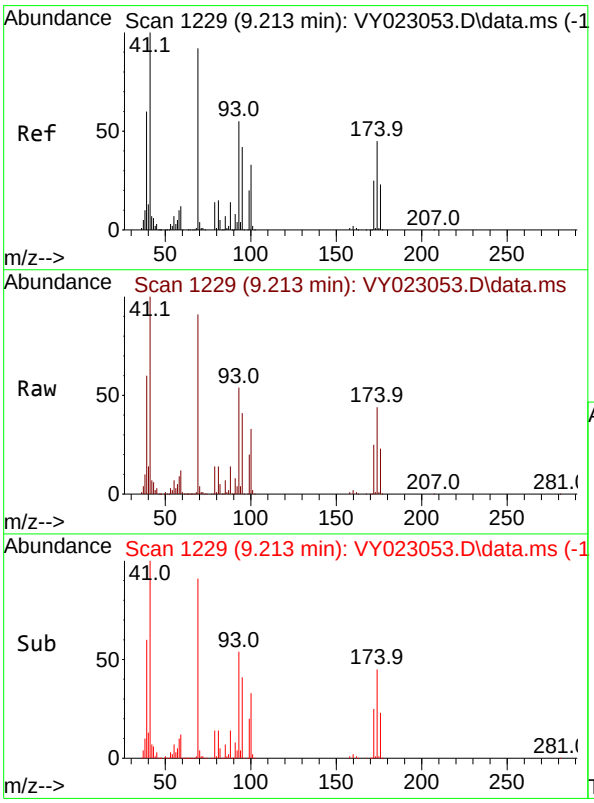
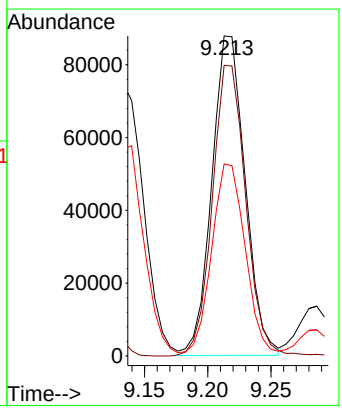
Supervised By :Semsettin Yesilyurt 08/14/2025

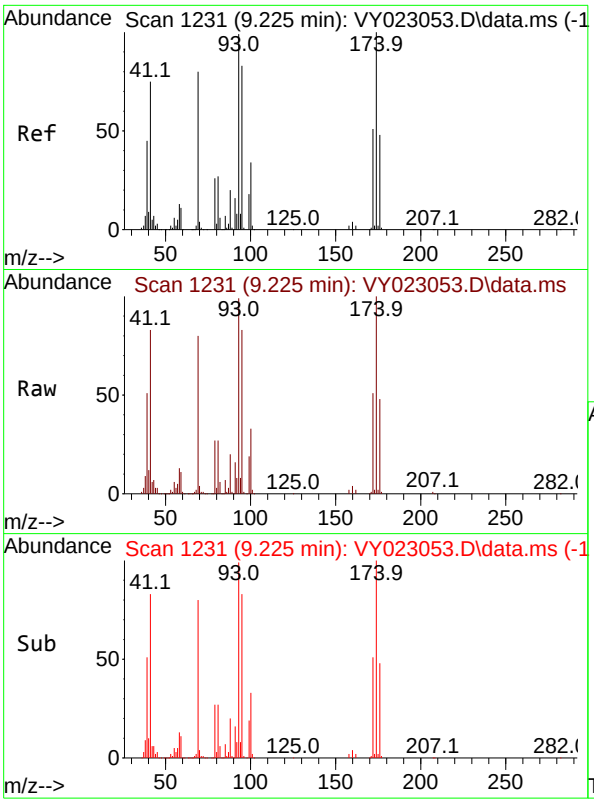


#48
Methyl methacrylate
Concen: 51.958 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

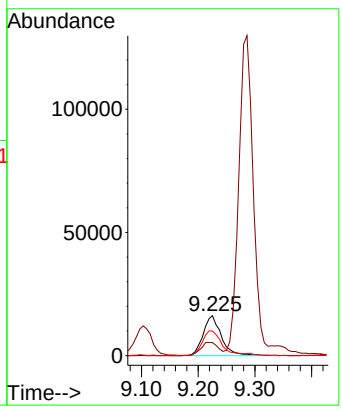




#49
1,4-Dioxane
Concen: 997.124 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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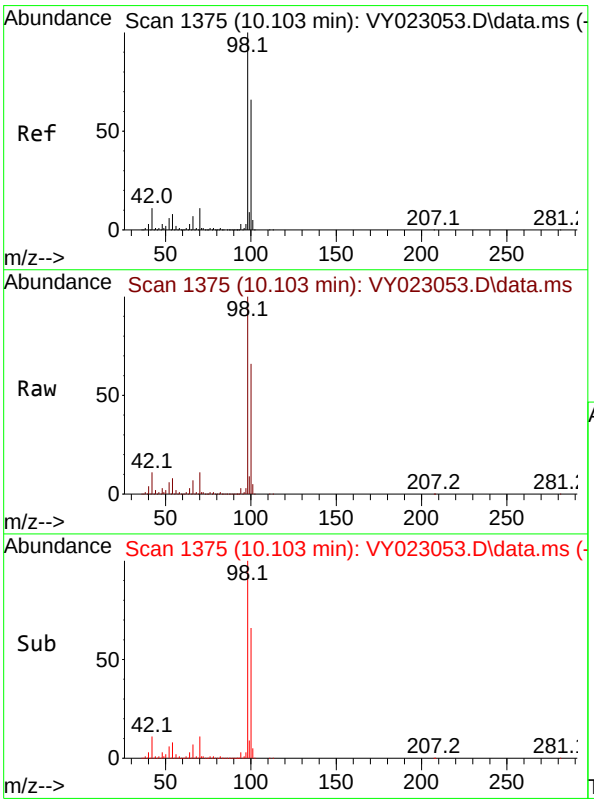
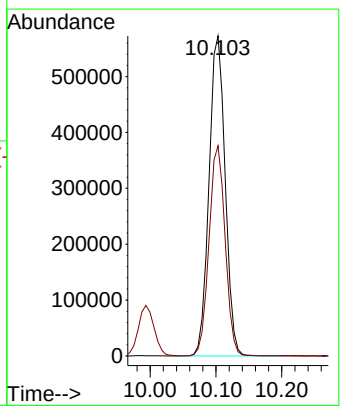
Supervised By :Semsettin Yesilyurt 08/14/2025

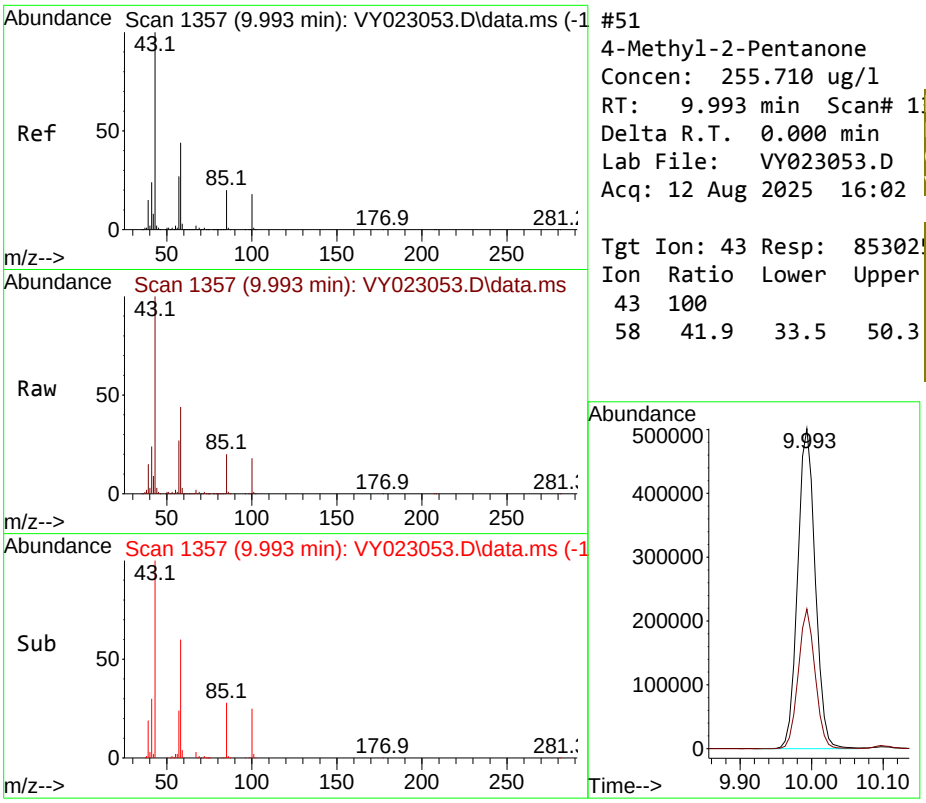


#50
Toluene-d8
Concen: 48.899 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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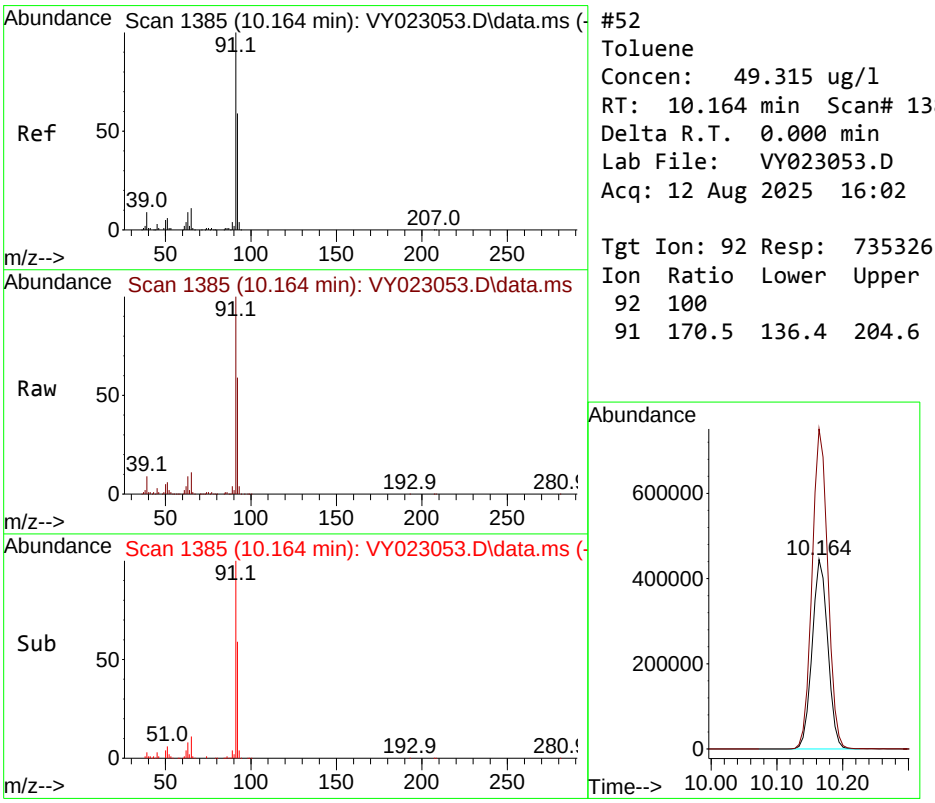
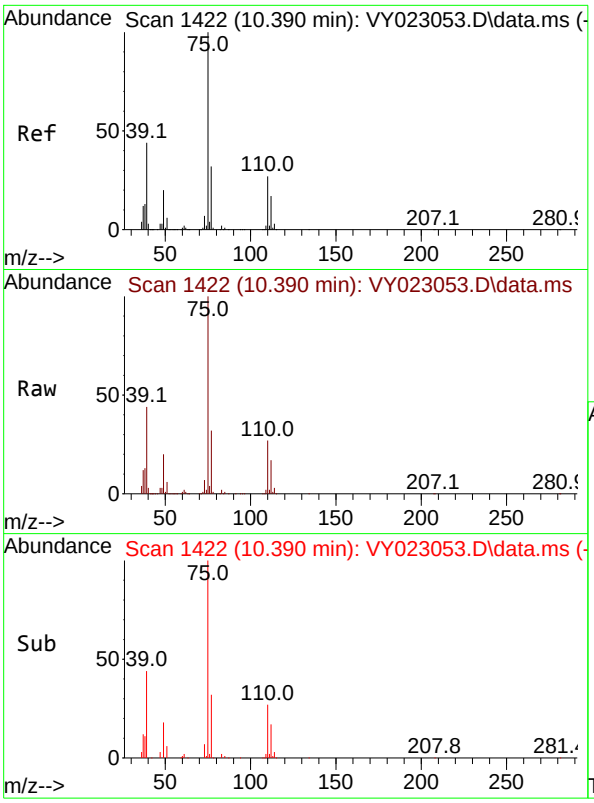


#52
Toluene
Concen: 49.315 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 92 Resp: 735326

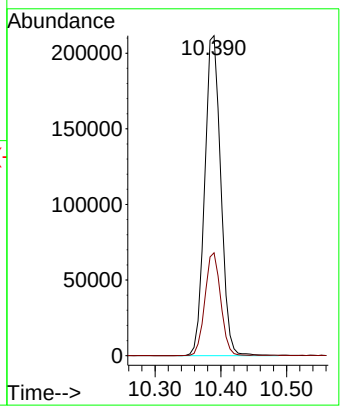
Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6



#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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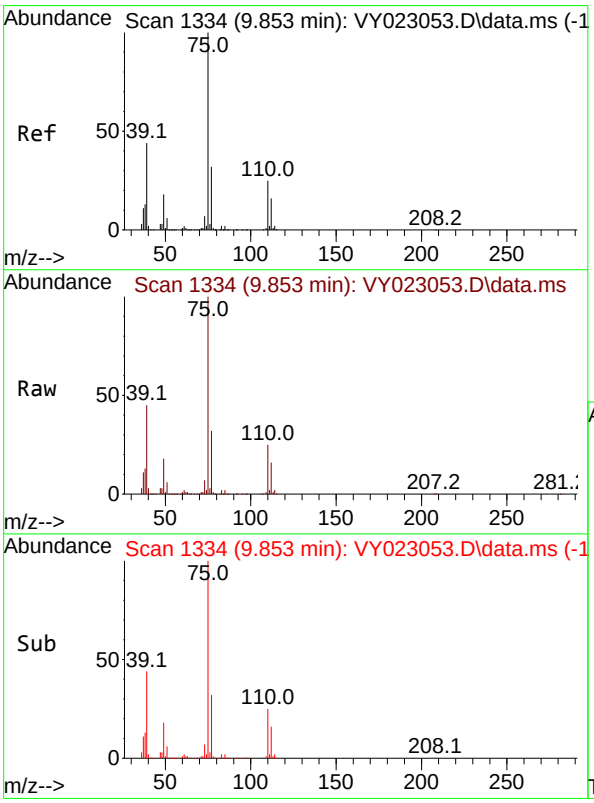
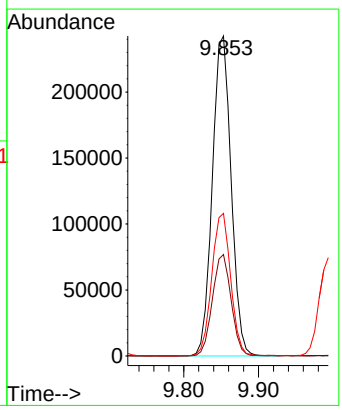
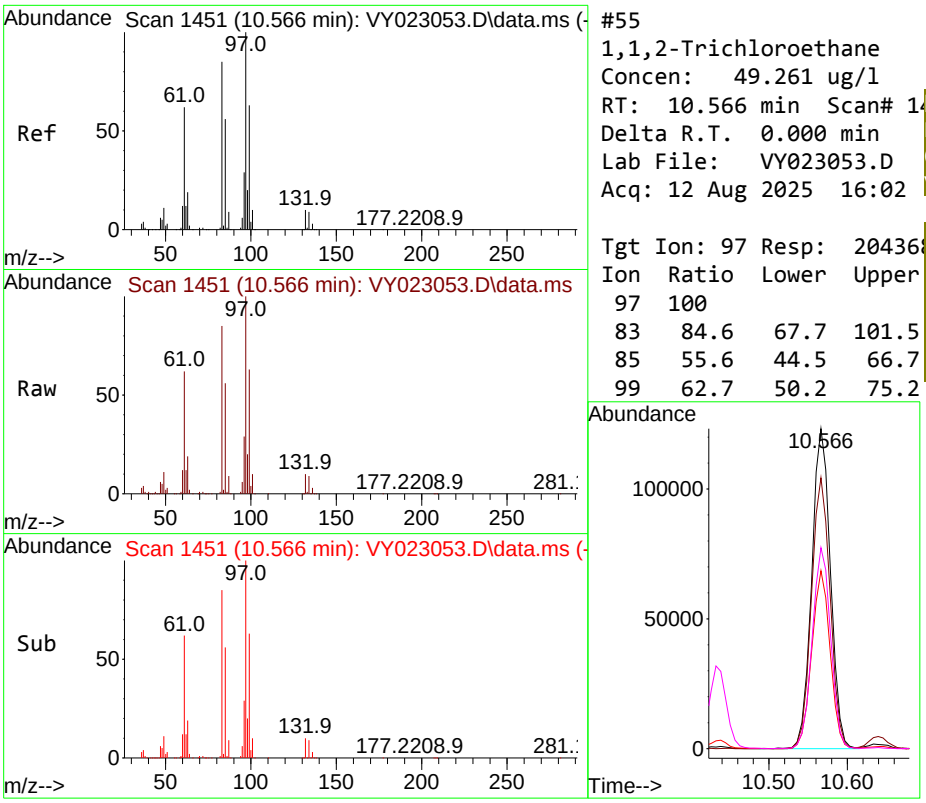


#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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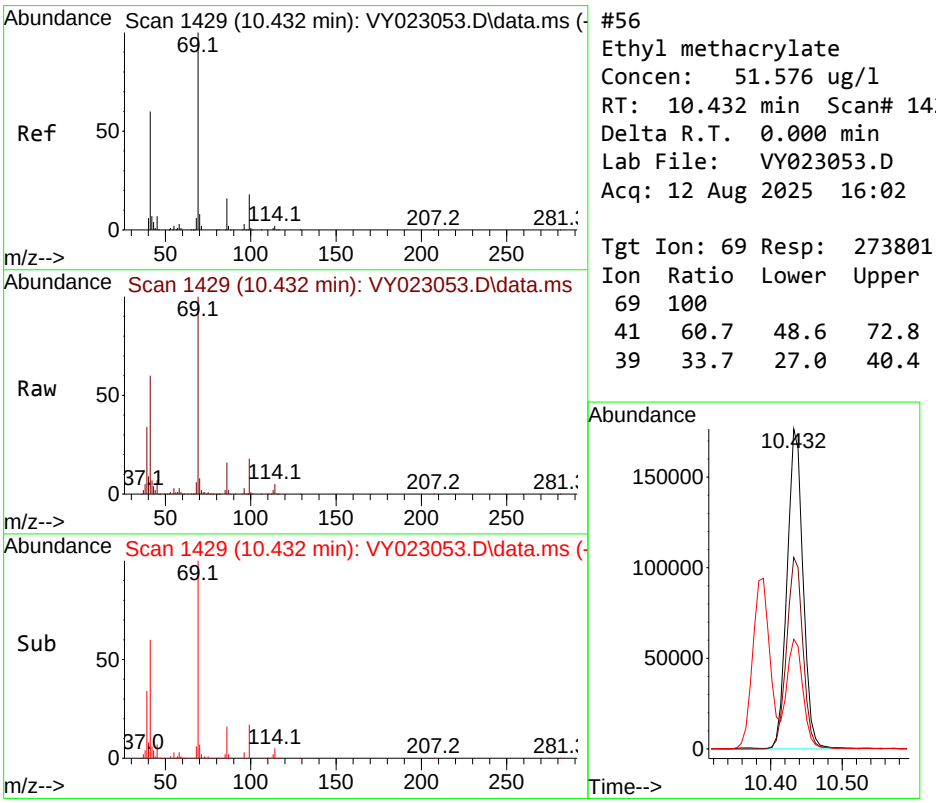
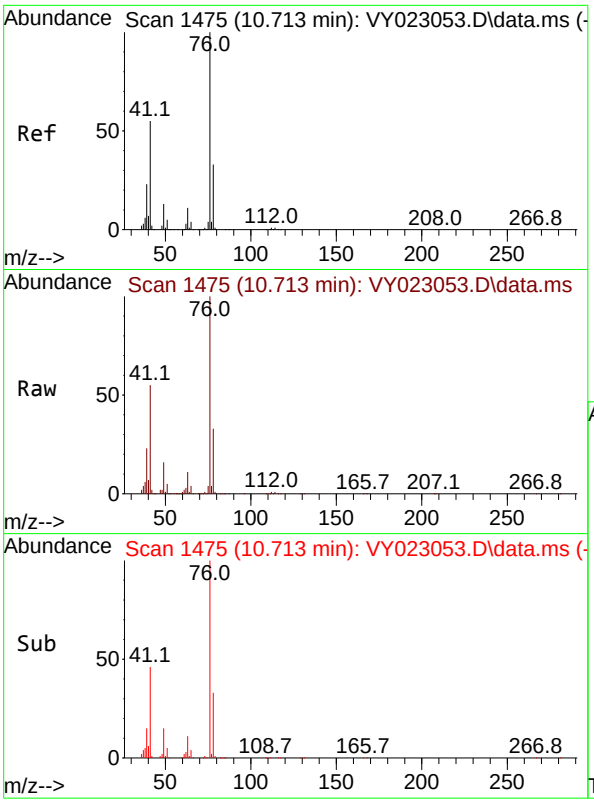


#56
Ethyl methacrylate
Concen: 51.576 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 69 Resp: 273801

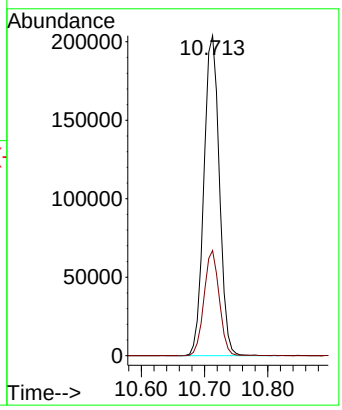
Ion	Ratio	Lower	Upper
69	100		
41	60.7	48.6	72.8
39	33.7	27.0	40.4



#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

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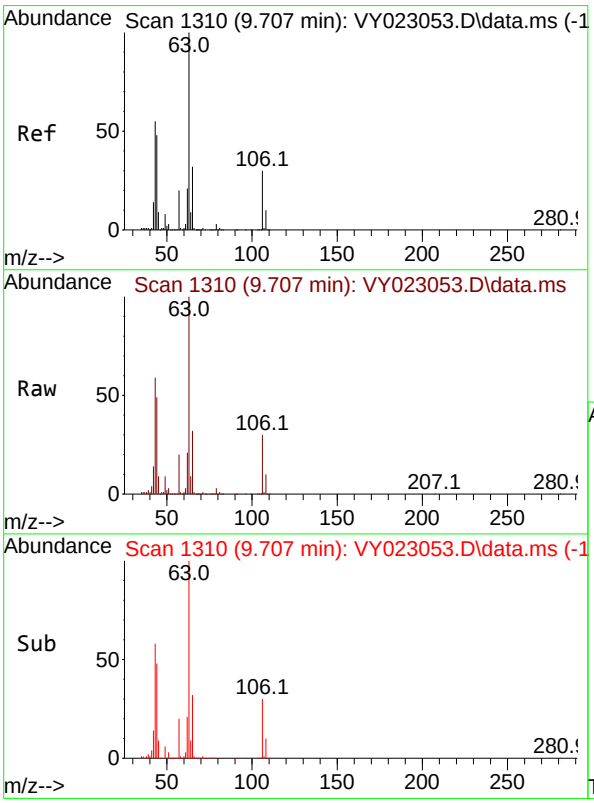
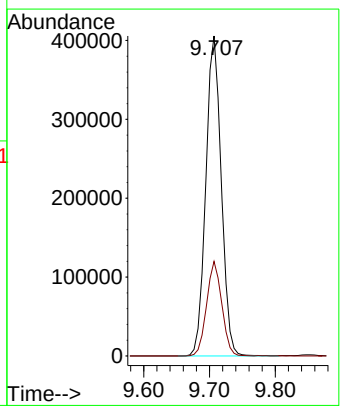
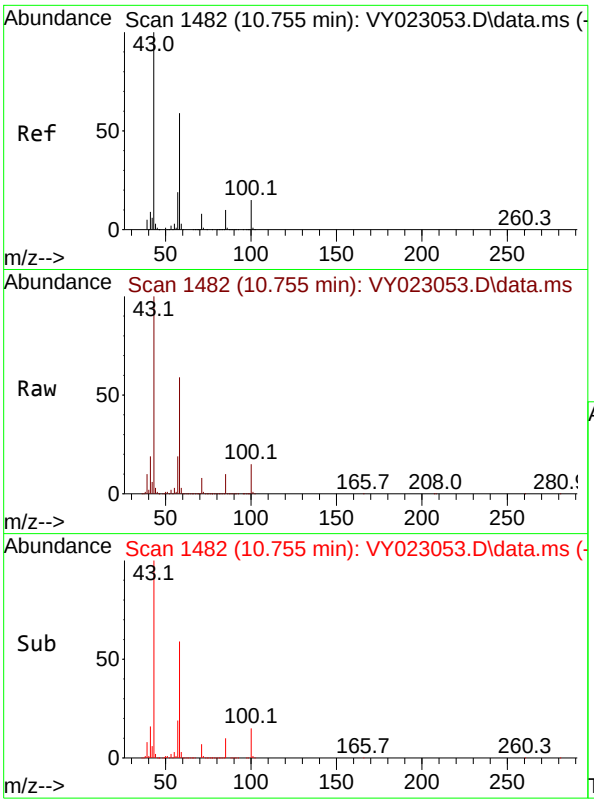


#58
2-Chloroethyl Vinyl ether
Concen: 264.906 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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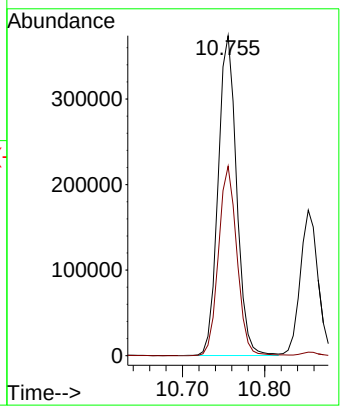
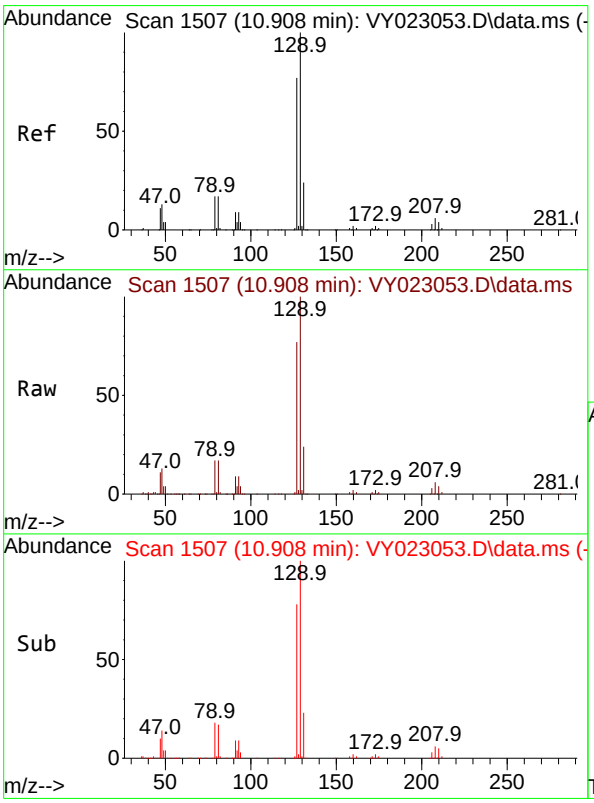
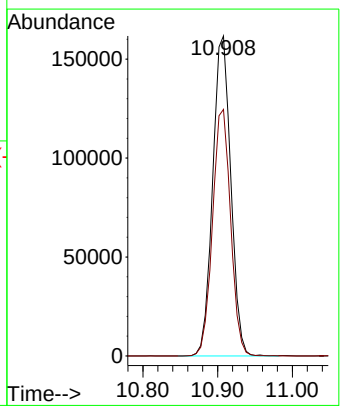


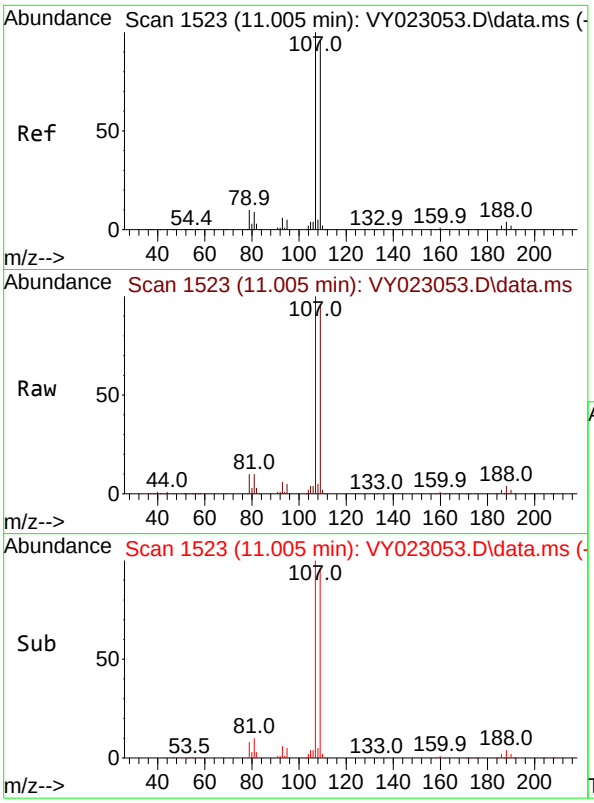


#60
Dibromochloromethane
Concen: 49.719 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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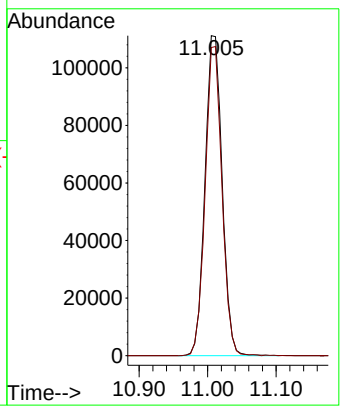
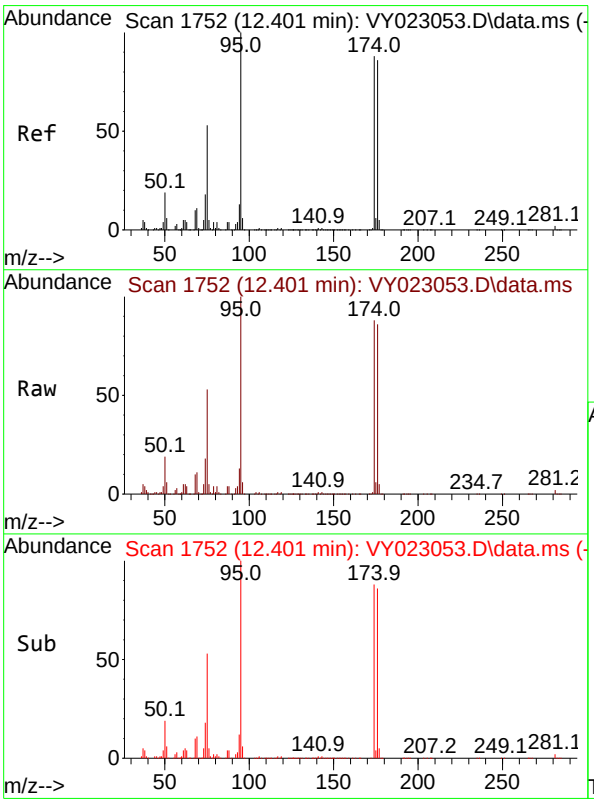
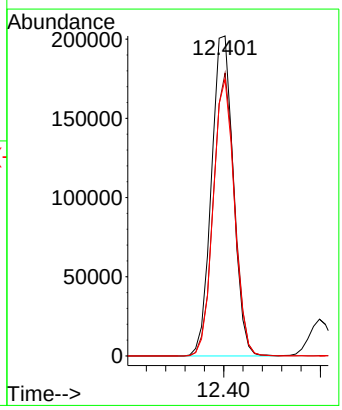


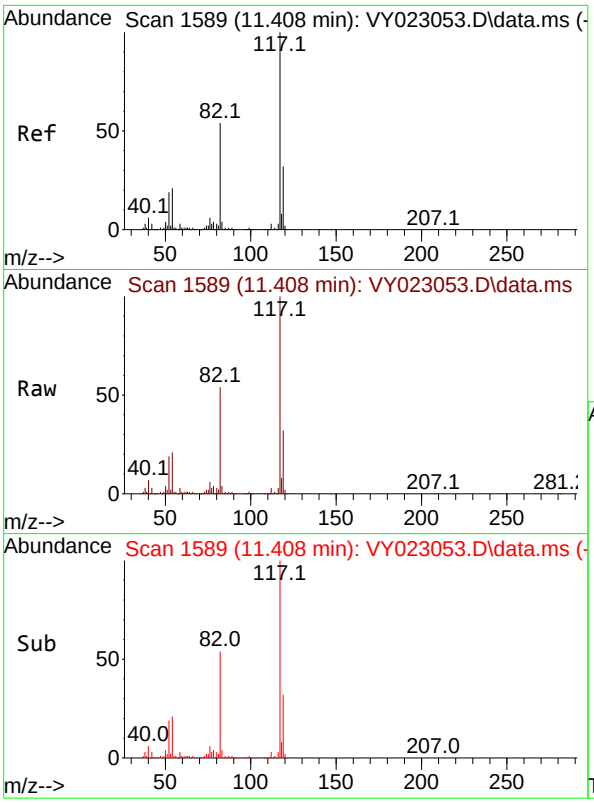


#62
4-Bromofluorobenzene
Concen: 49.194 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

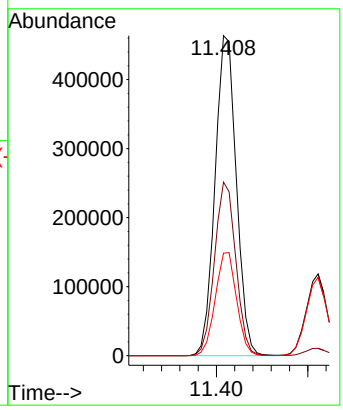




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

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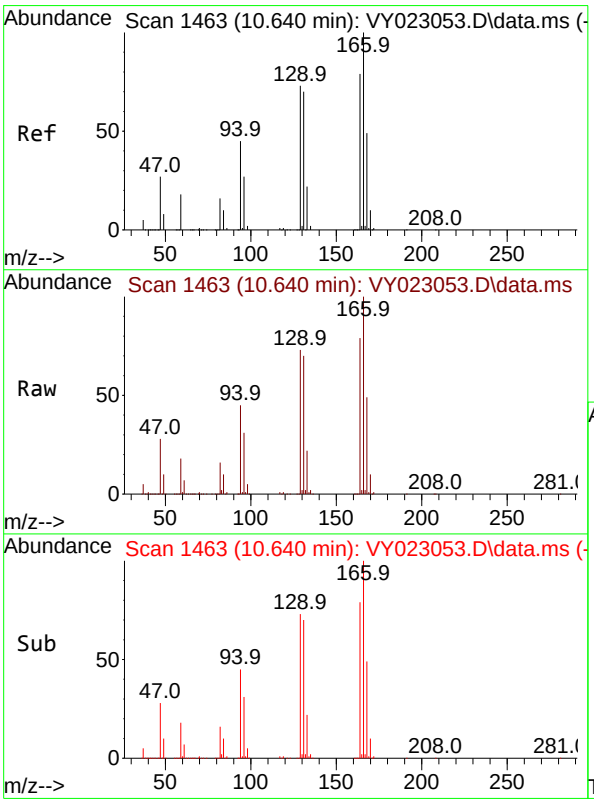
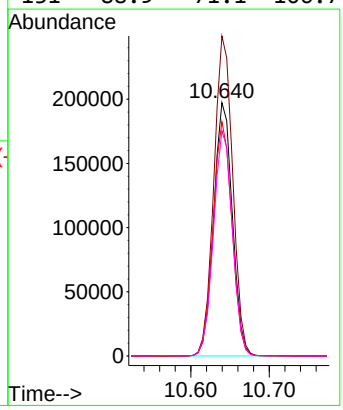
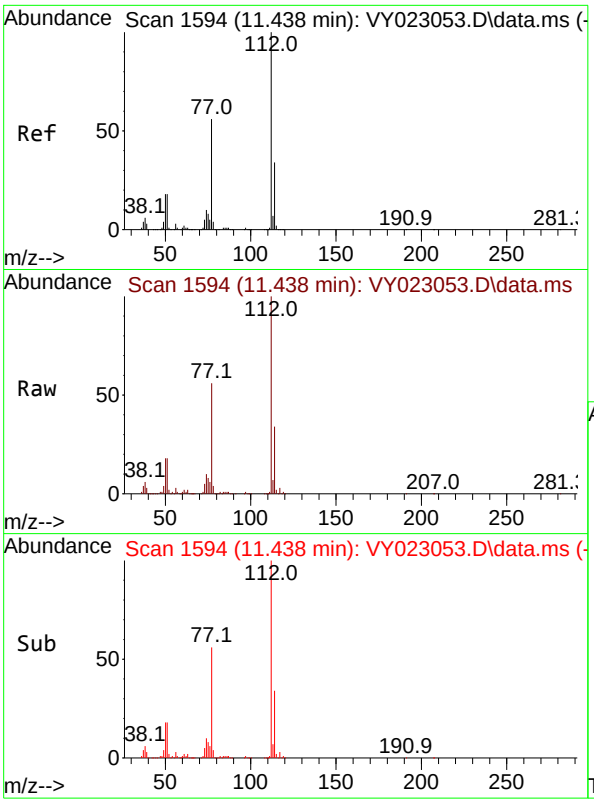


#64
Tetrachloroethene
Concen: 48.740 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

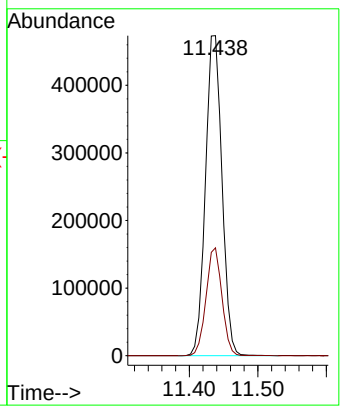




#65
Chlorobenzene
Concen: 48.920 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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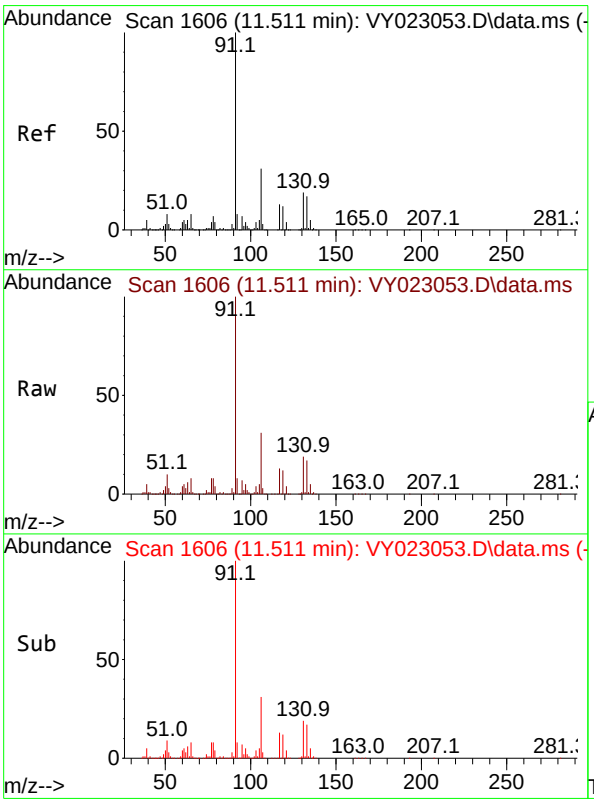
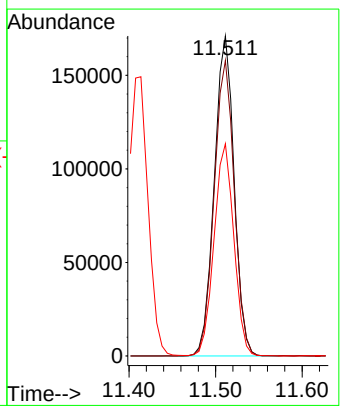
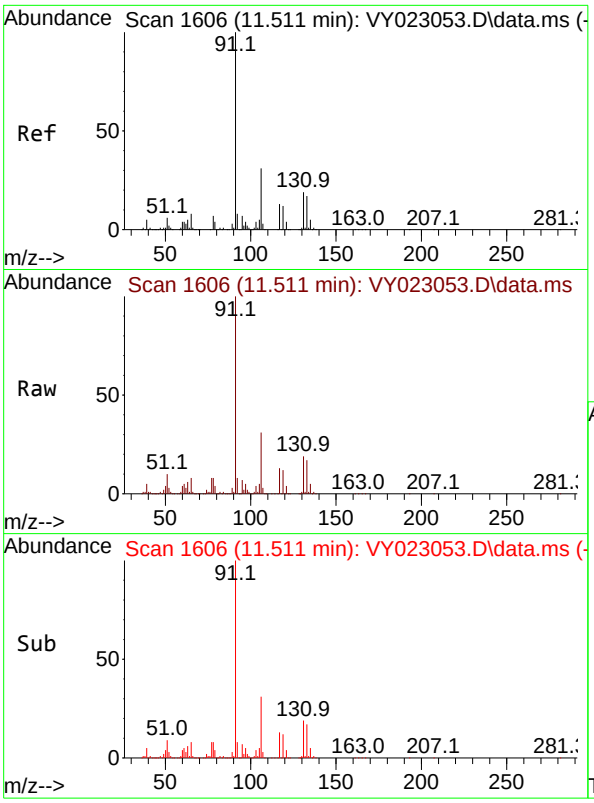


#66
1,1,1,2-Tetrachloroethane
Concen: 49.381 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

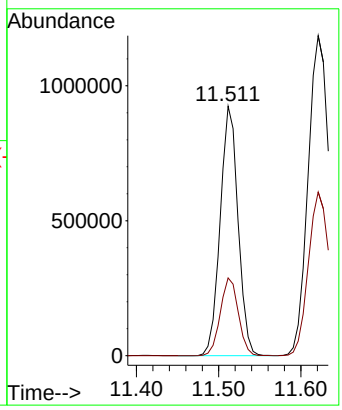




#67
Ethyl Benzene
Concen: 50.073 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 139770

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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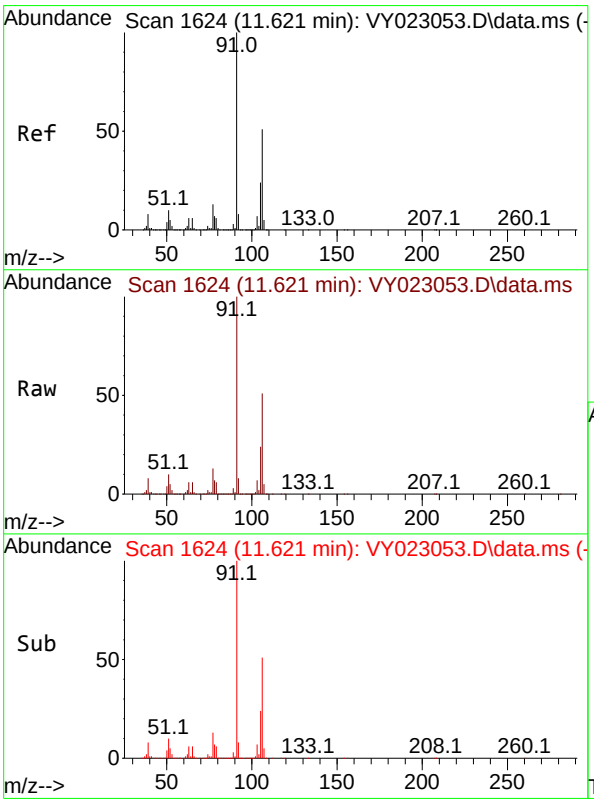
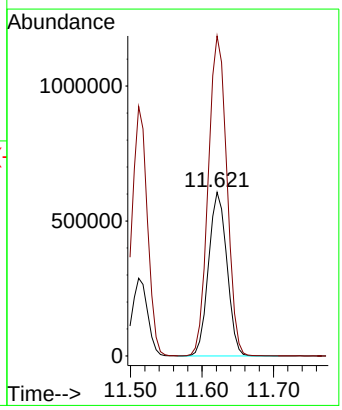
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

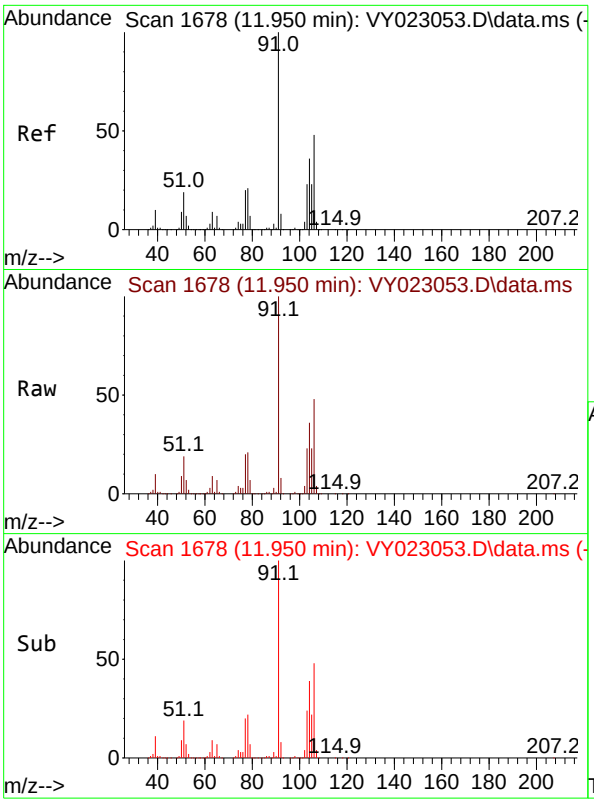


#68
m/p-Xylenes
Concen: 99.103 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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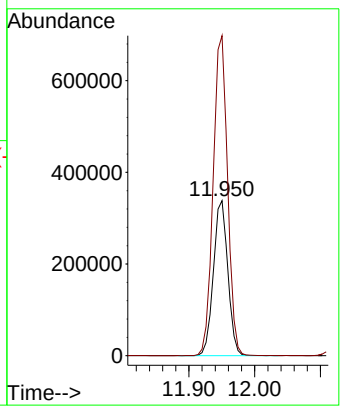
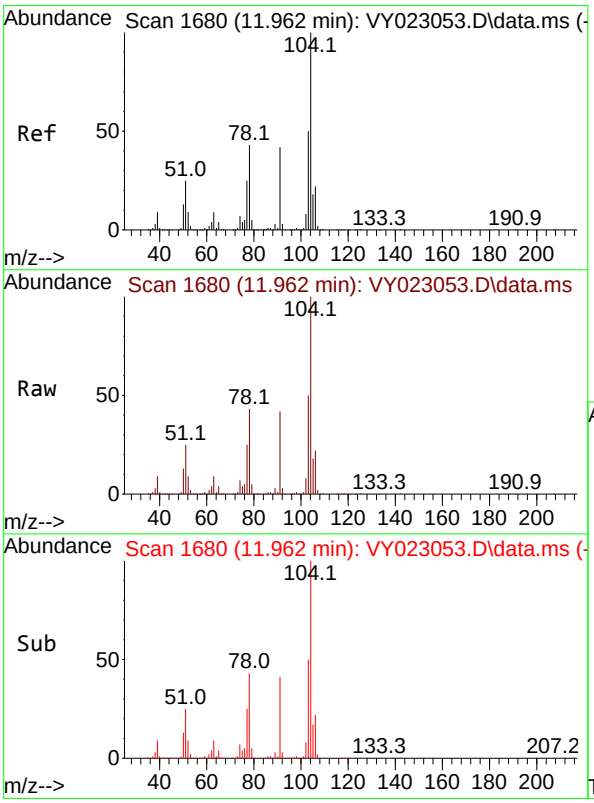
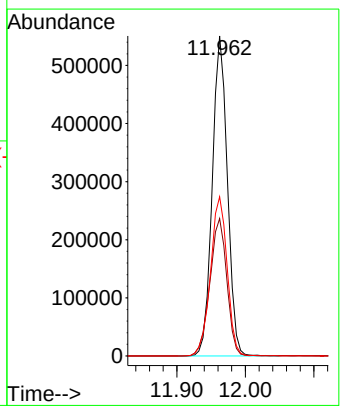


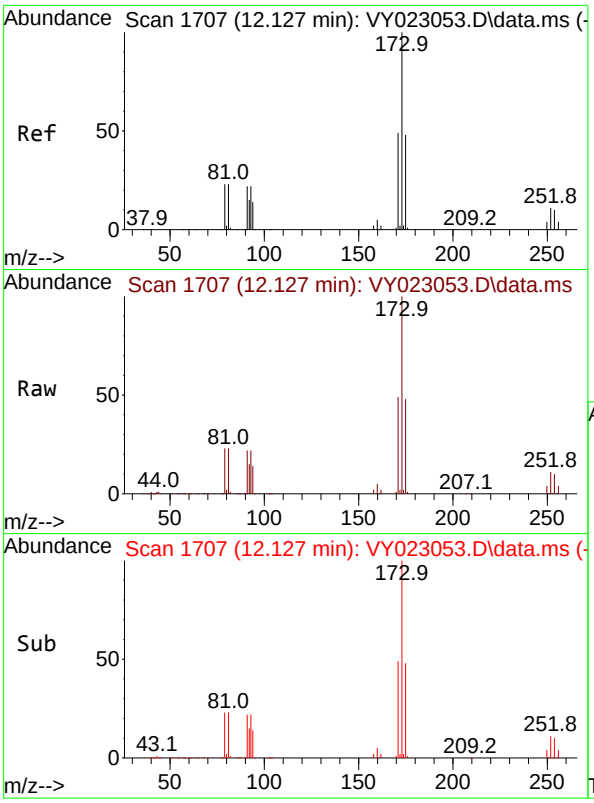


#70
Styrene
Concen: 50.569 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

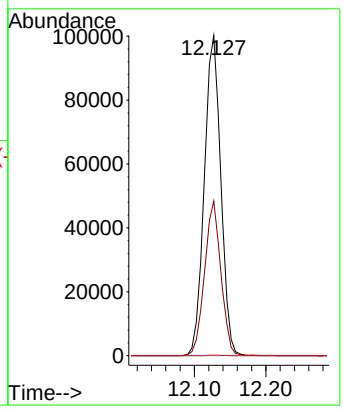




#71
Bromoform
Concen: 49.969 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
VSTDICCC050

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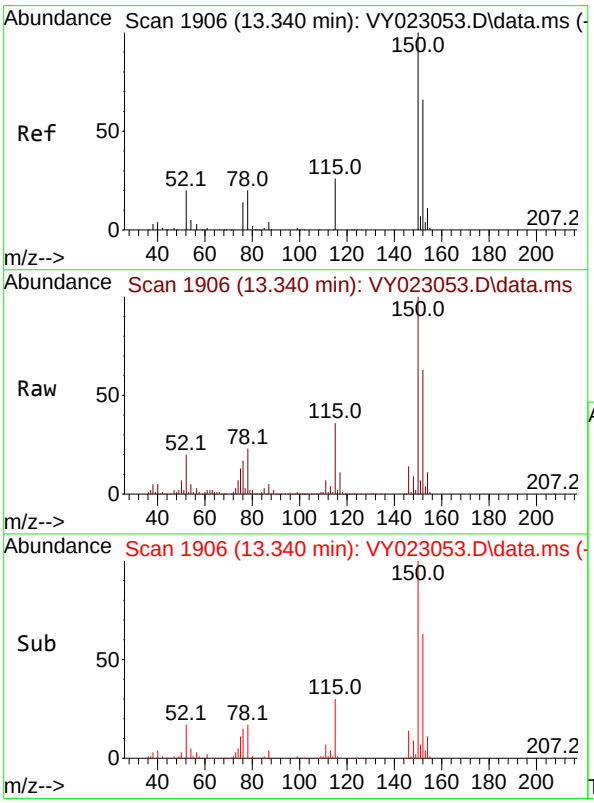
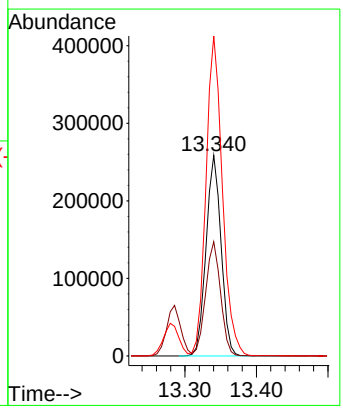
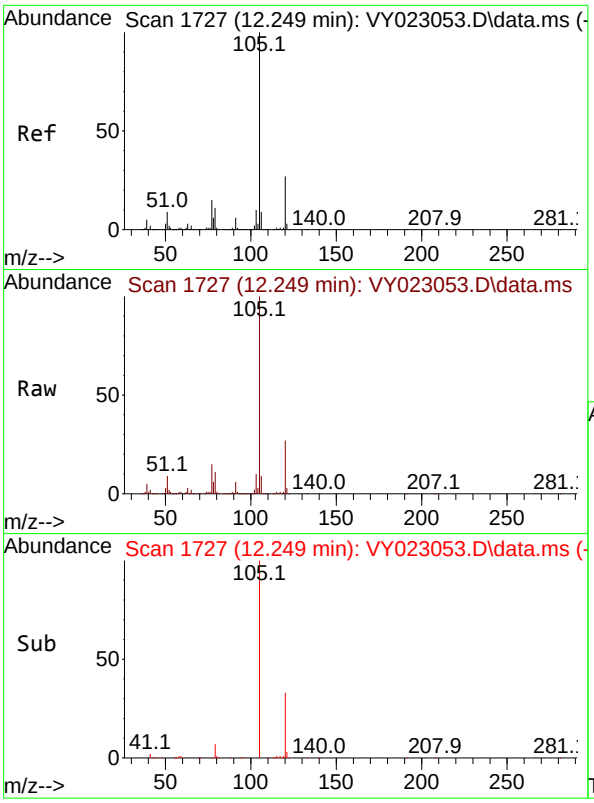


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

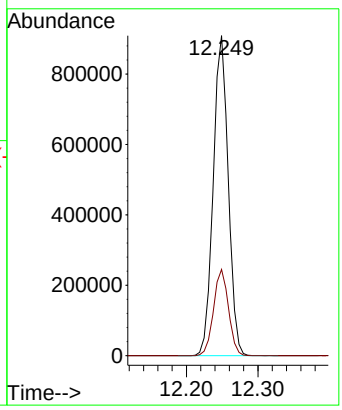




#73
Isopropylbenzene
Concen: 49.660 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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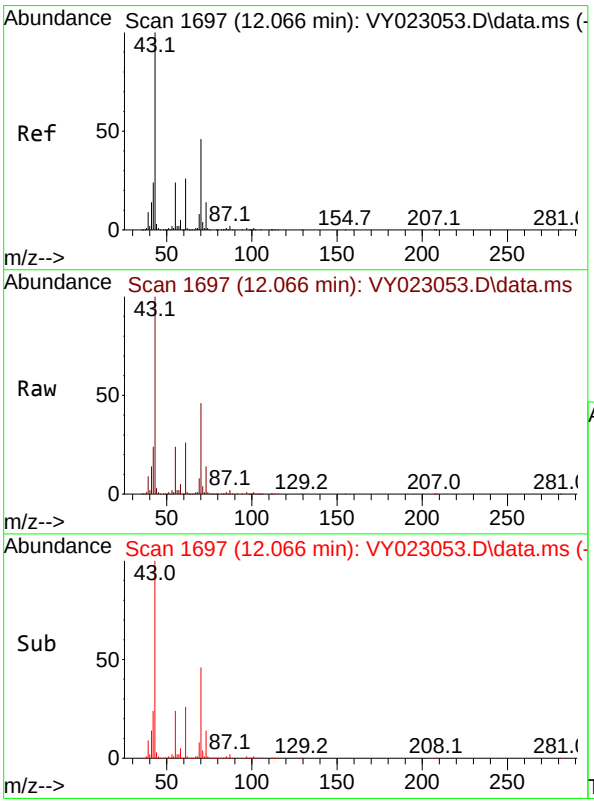
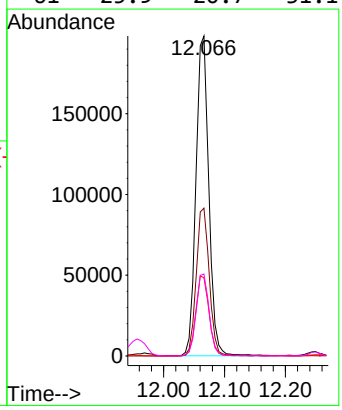
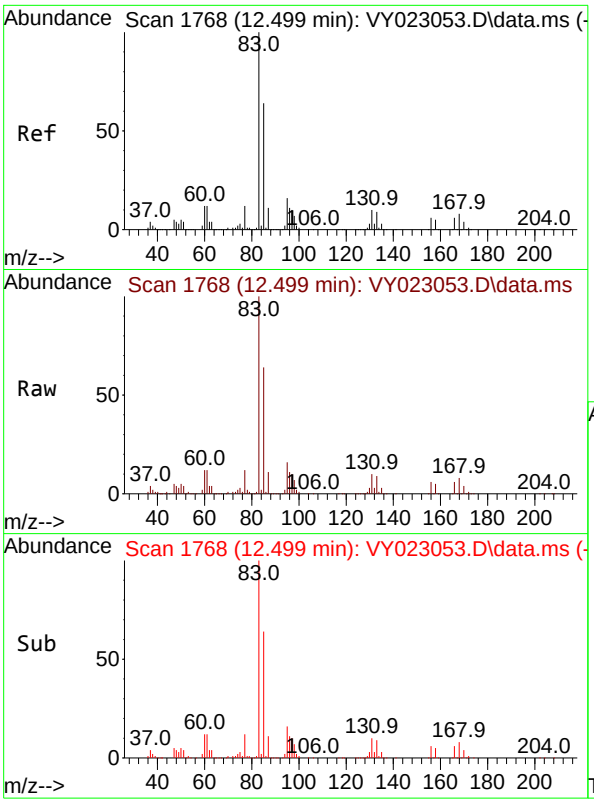


#74
N-amyl acetate
Concen: 51.264 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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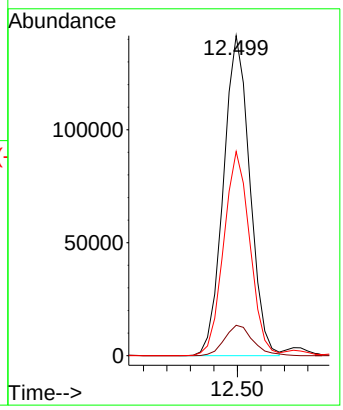
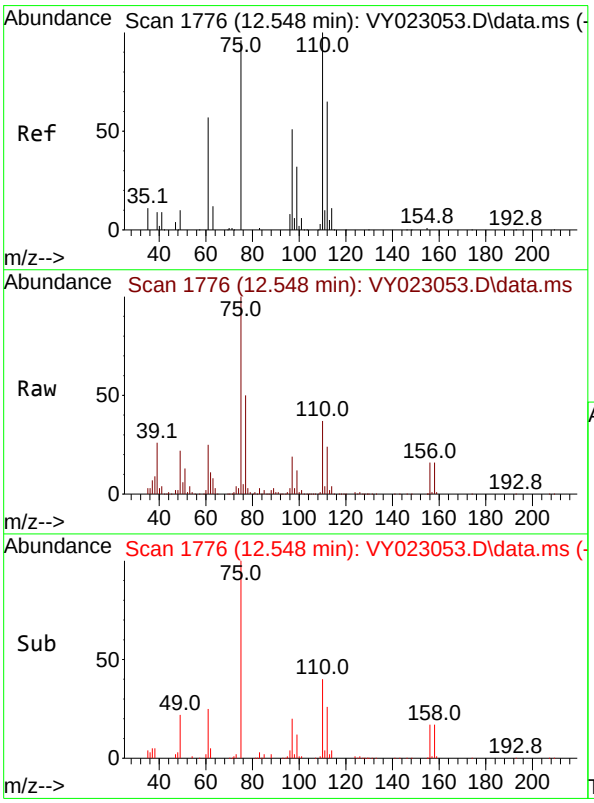
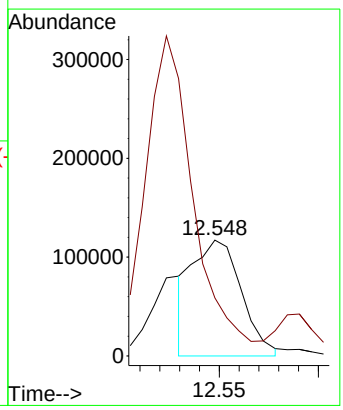


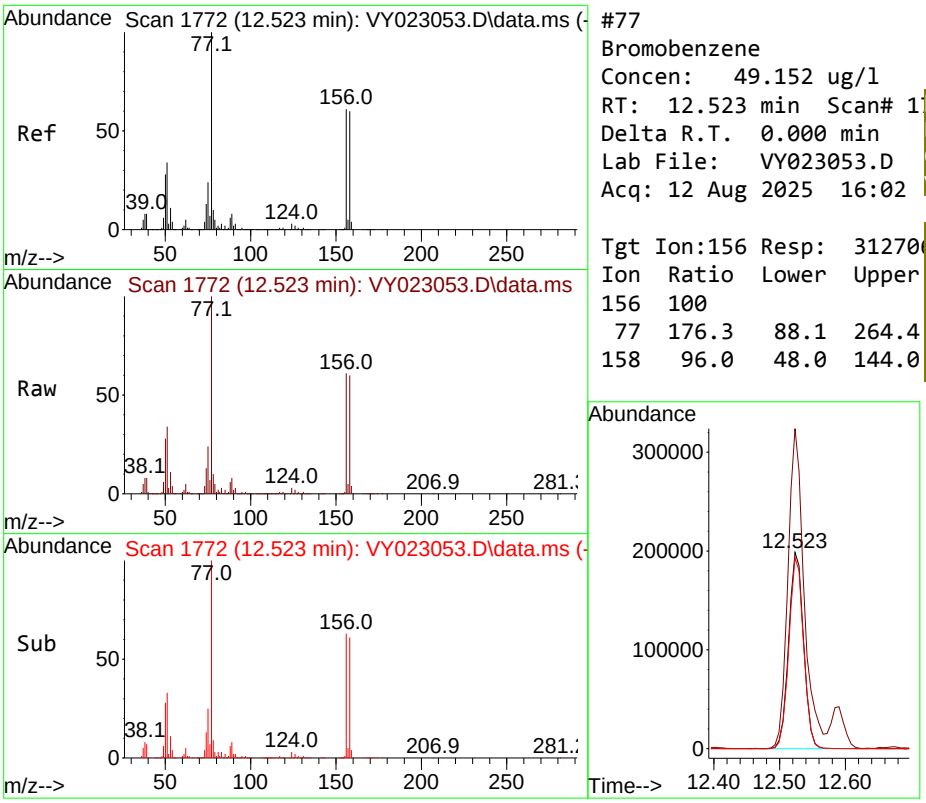


#76
1,2,3-Trichloropropane
Concen: 55.430 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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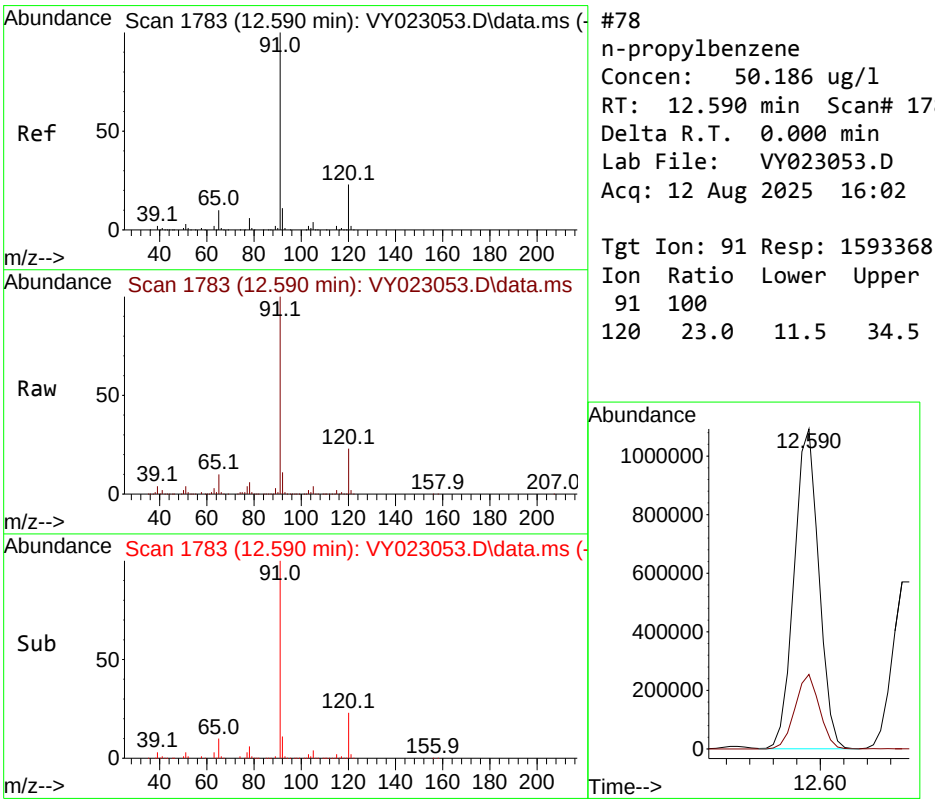
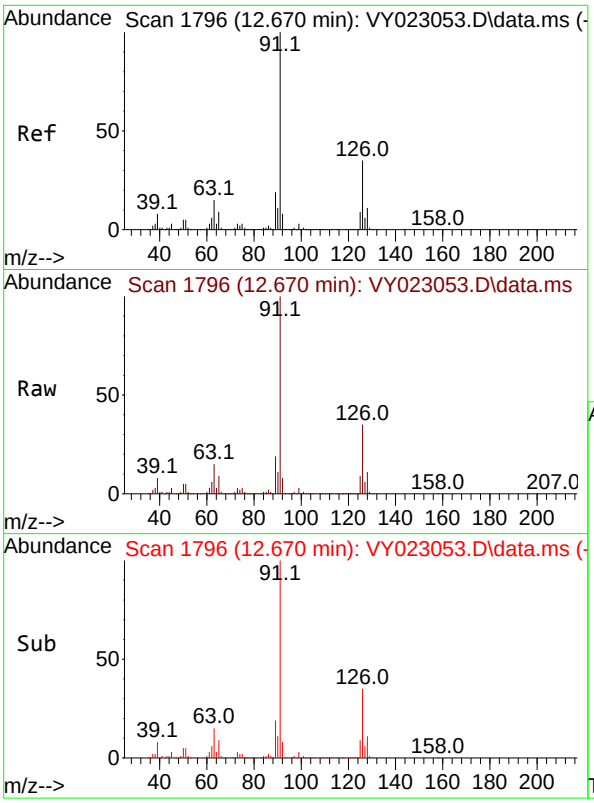


#78
n-propylbenzene
Concen: 50.186 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 1593368

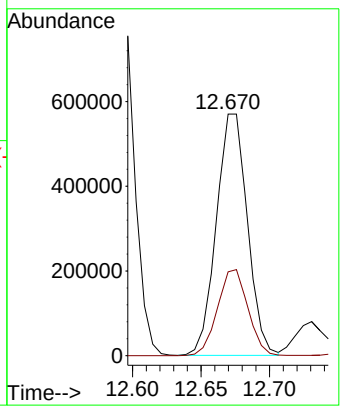
Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.5



#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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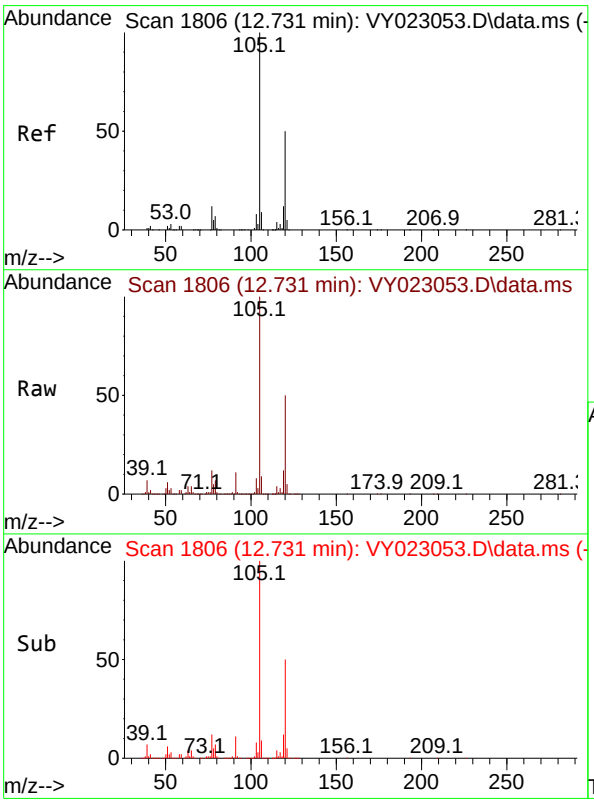
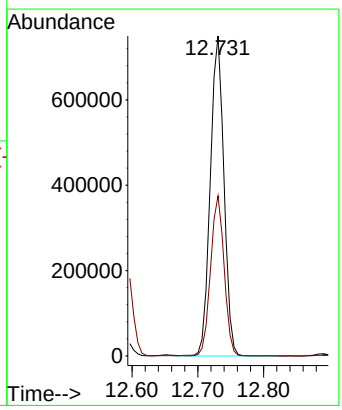
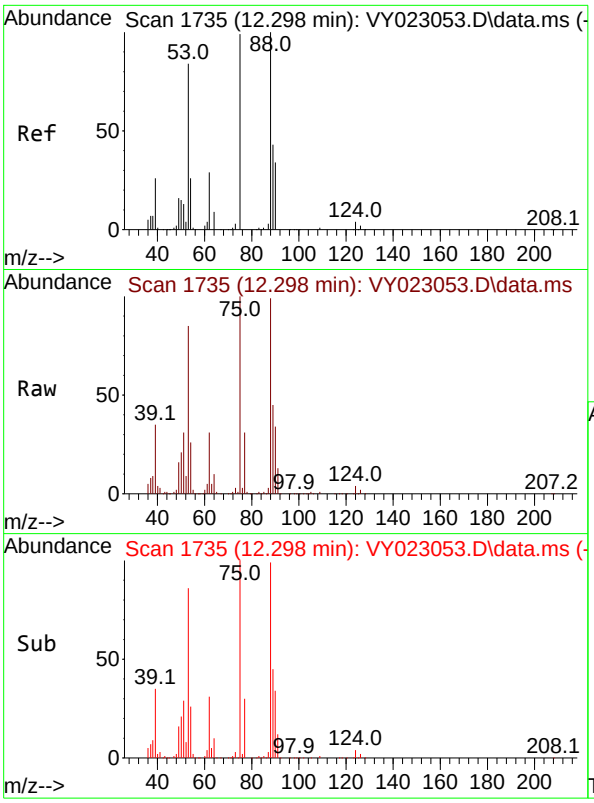


#80
1,3,5-Trimethylbenzene
Concen: 50.126 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1080333

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4

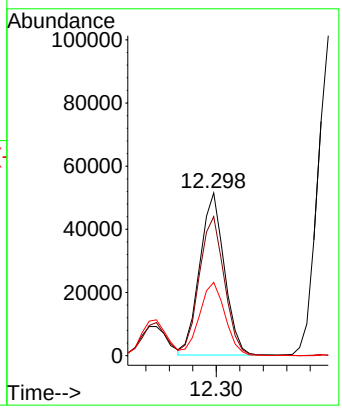




#81
trans-1,4-Dichloro-2-butene
Concen: 49.500 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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 :
VSTDICCC050

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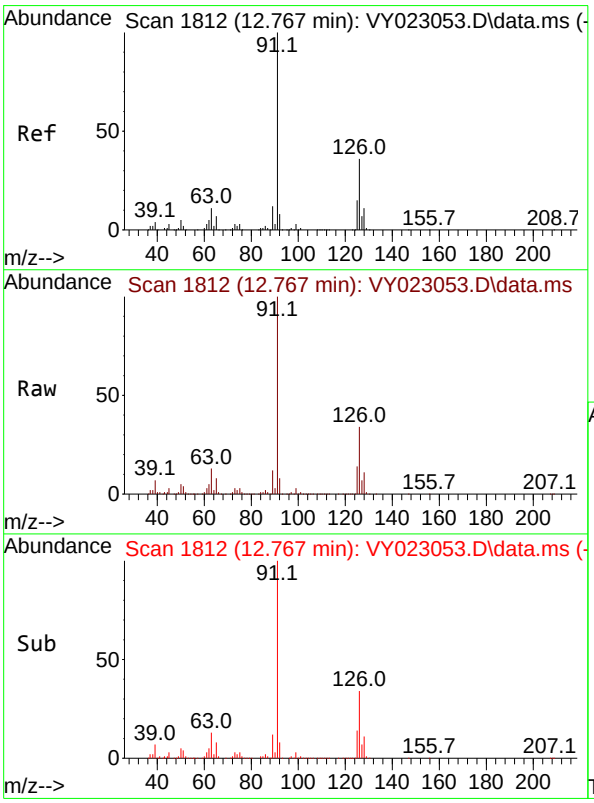
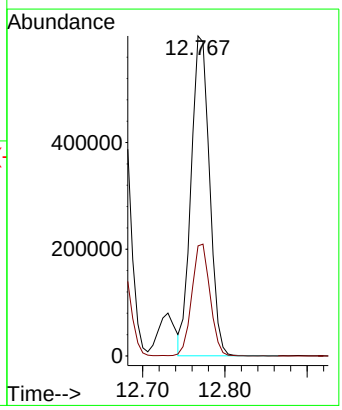
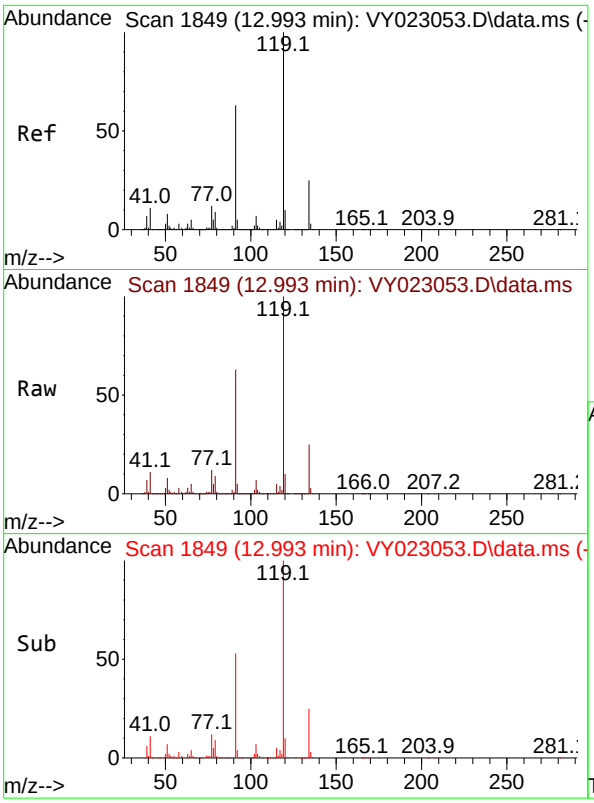


#82
4-Chlorotoluene
Concen: 49.299 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 930329

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0

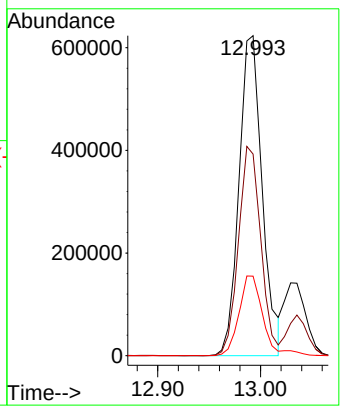




#83
tert-Butylbenzene
Concen: 50.244 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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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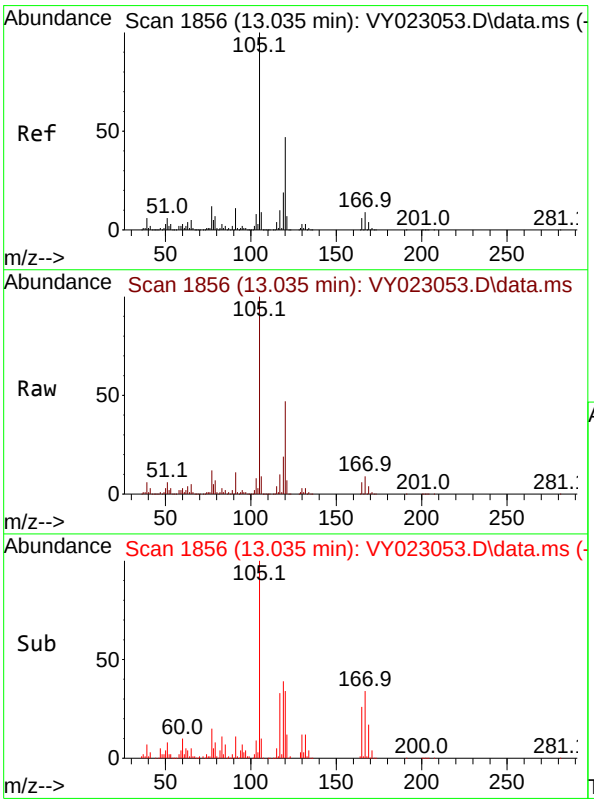
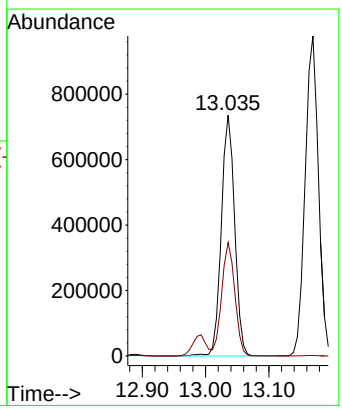
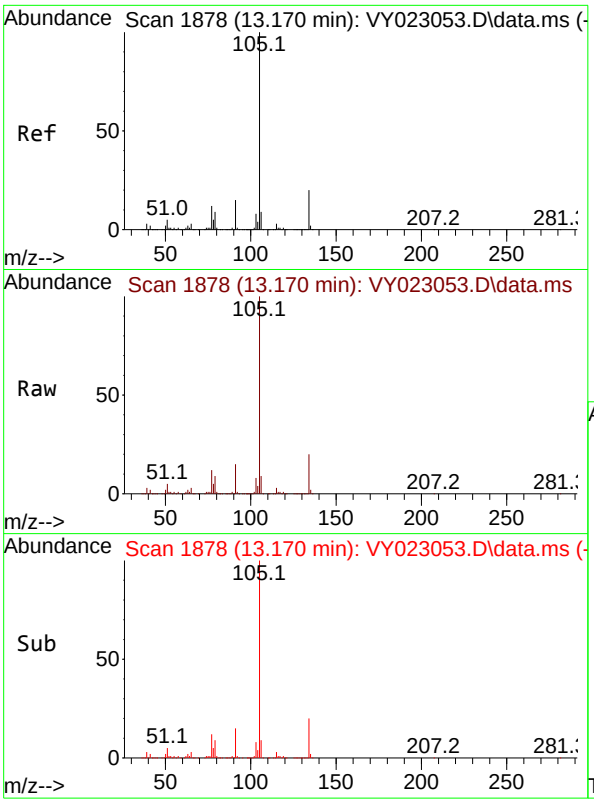


#84
1,2,4-Trimethylbenzene
Concen: 49.963 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1071926

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.0	69.0

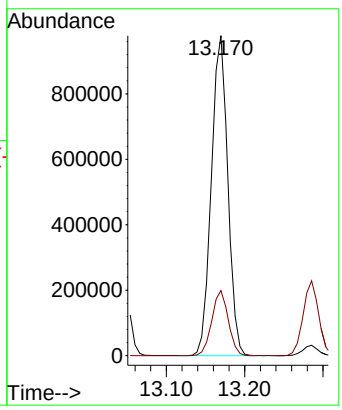




#85
sec-Butylbenzene
Concen: 49.854 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 142555

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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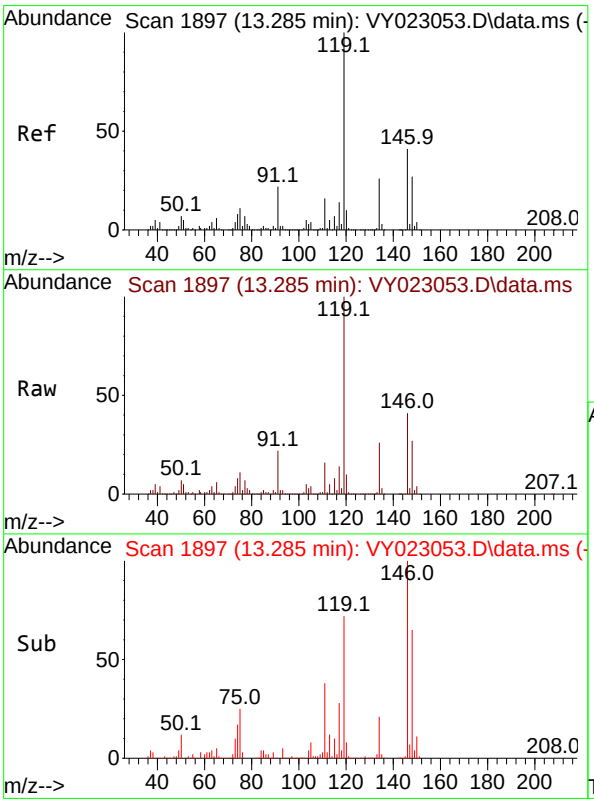
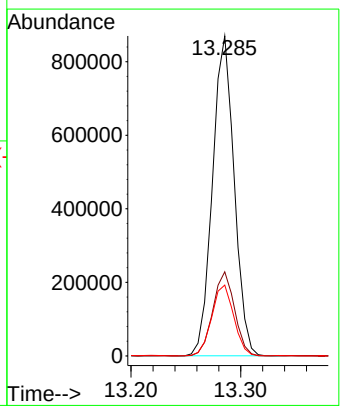
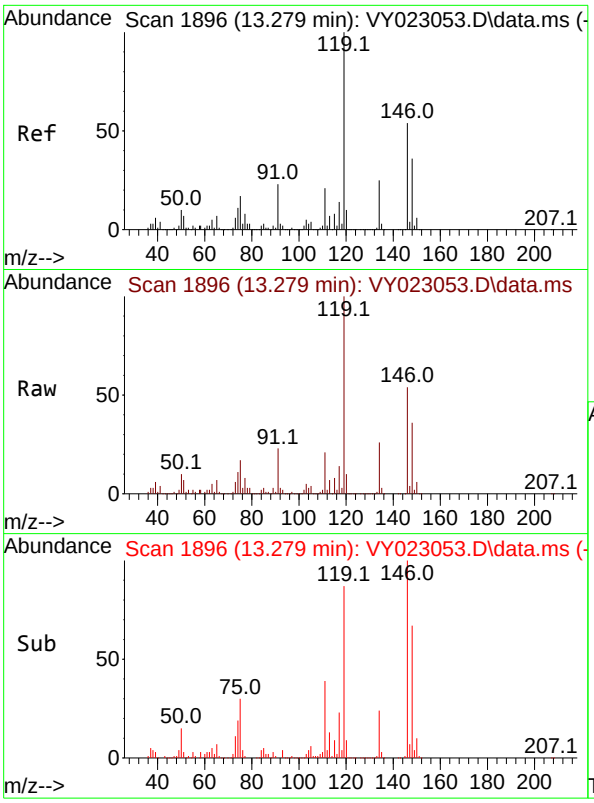


#86
p-Isopropyltoluene
Concen: 50.417 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

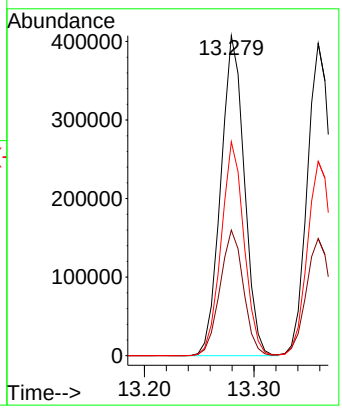




#87
1,3-Dichlorobenzene
Concen: 48.481 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 60824

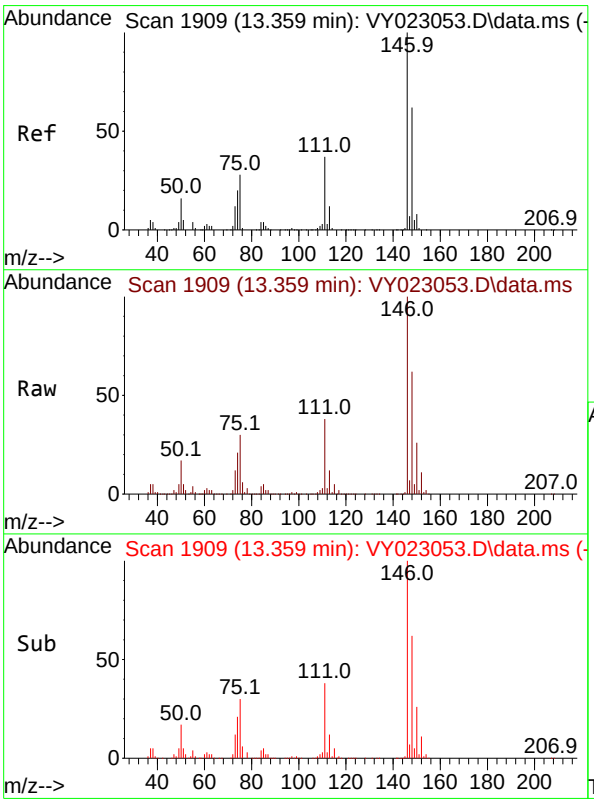
Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	65.0	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

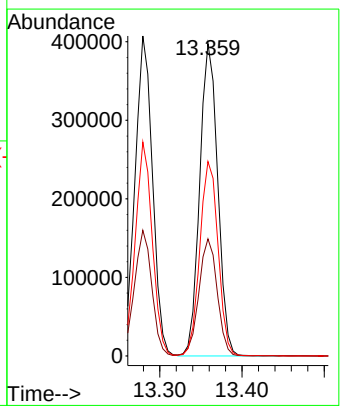
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

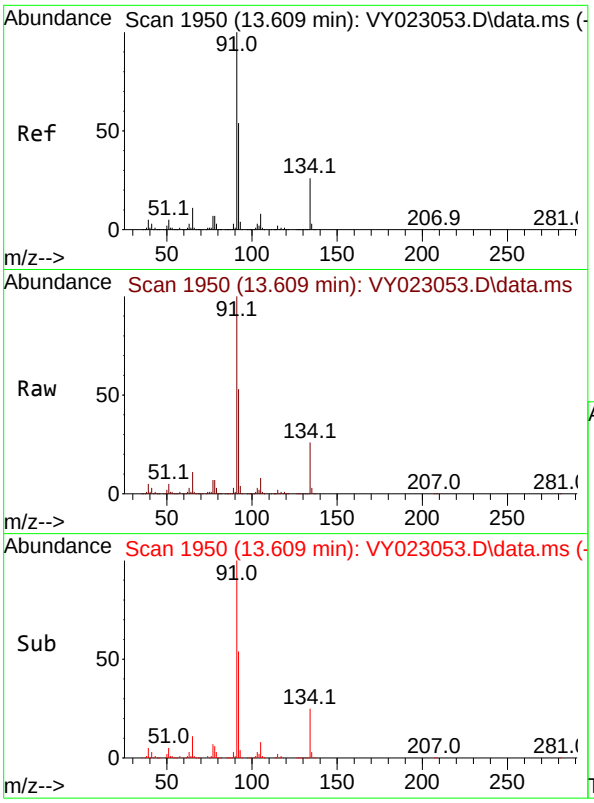


#88
1,4-Dichlorobenzene
Concen: 48.618 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

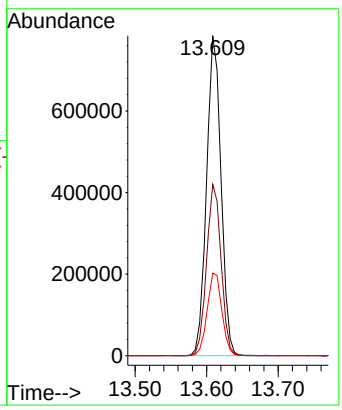




#89
n-Butylbenzene
Concen: 50.454 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 109986

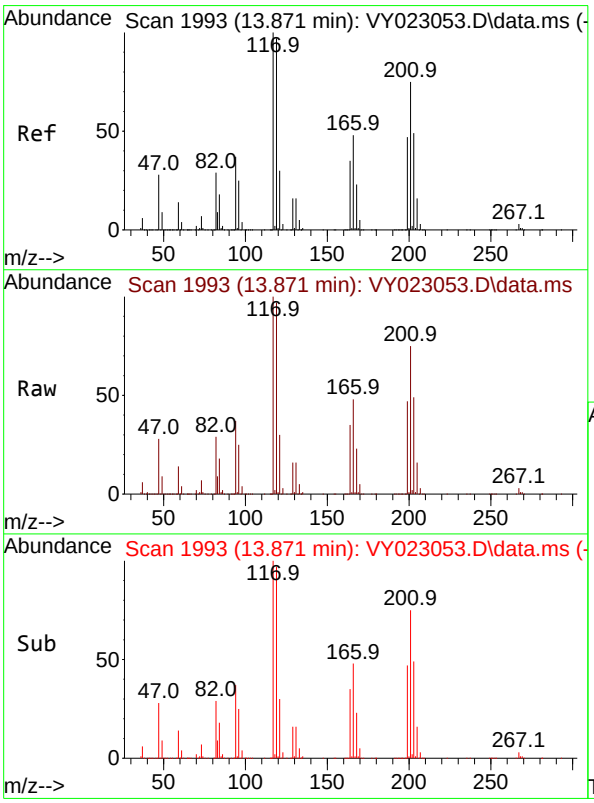
Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.9	80.7
134	26.3	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

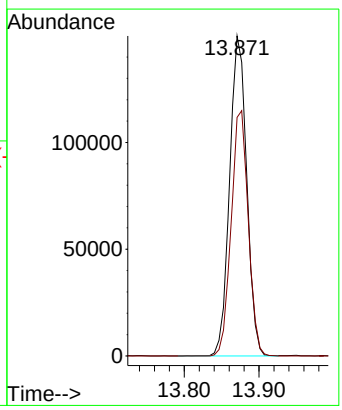
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

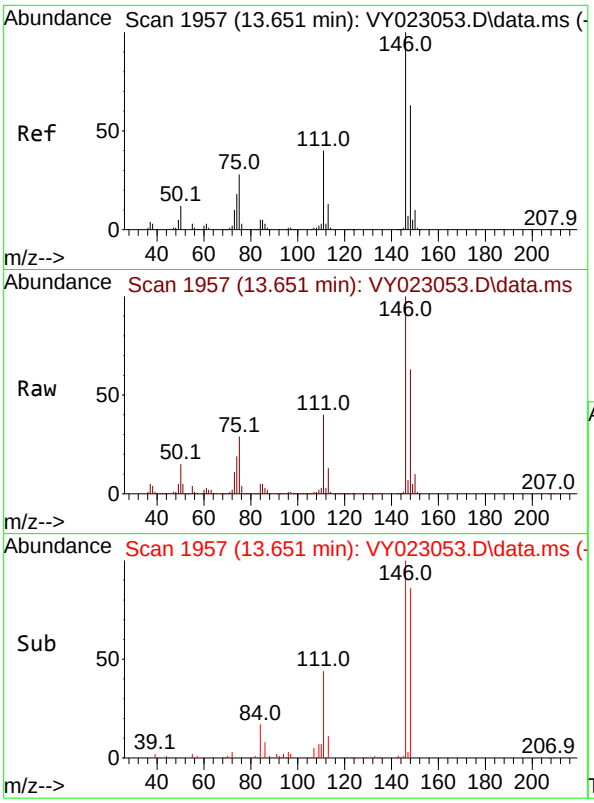


#90
Hexachloroethane
Concen: 48.984 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 238005

Ion	Ratio	Lower	Upper
117	100		
201	76.7	38.4	115.1

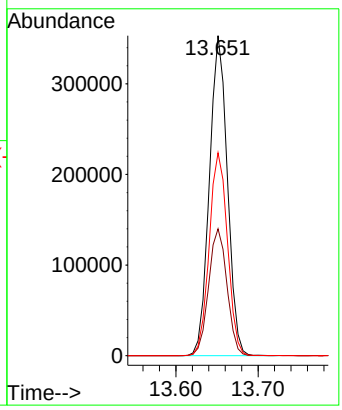




#91
1,2-Dichlorobenzene
Concen: 48.772 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 53663

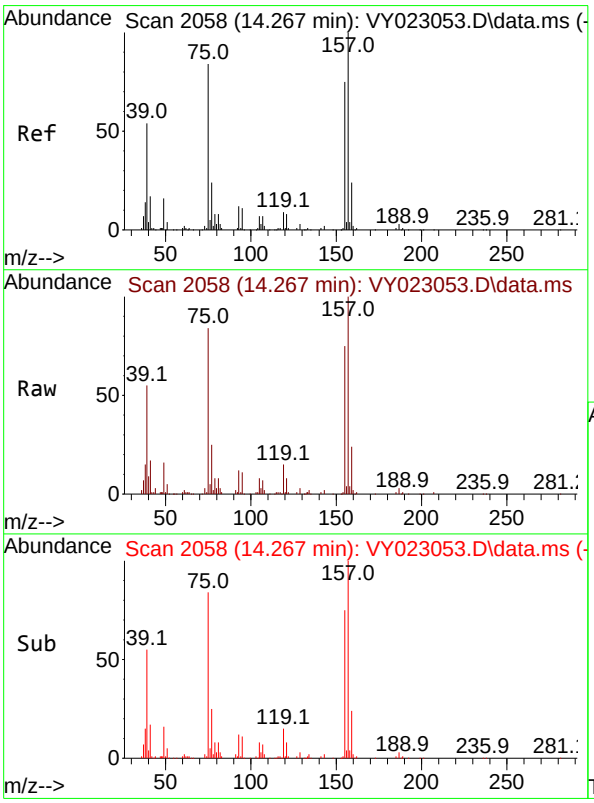
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	64.4	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

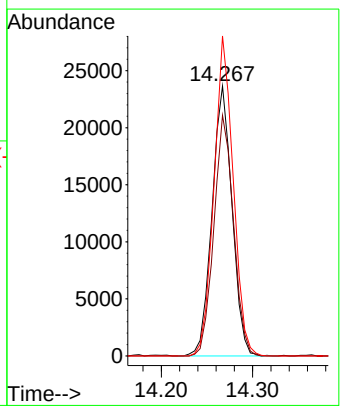
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

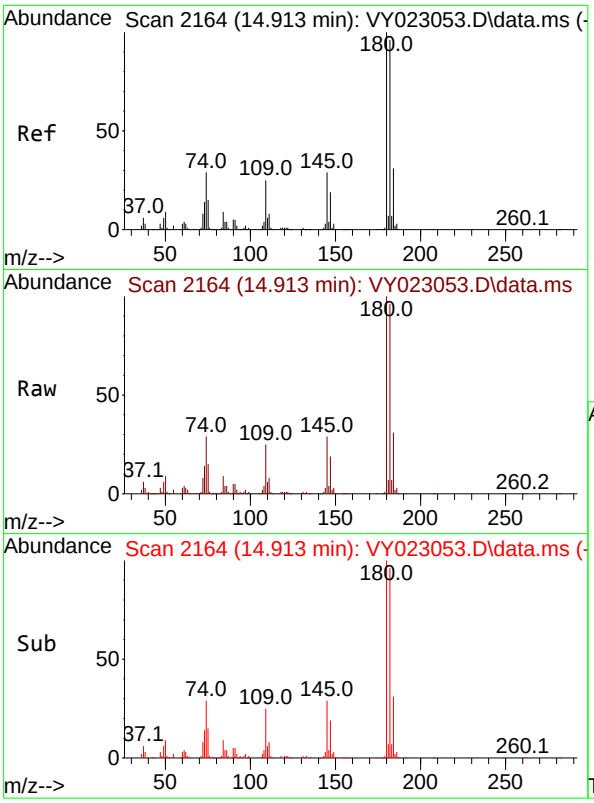


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.592 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

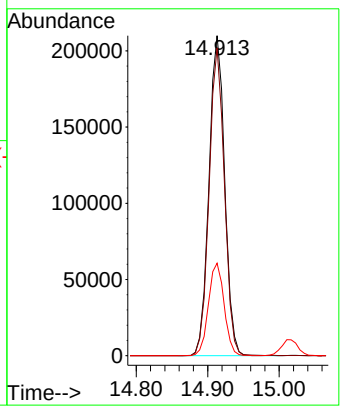




#93
1,2,4-Trichlorobenzene
Concen: 49.192 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:180 Resp: 32008

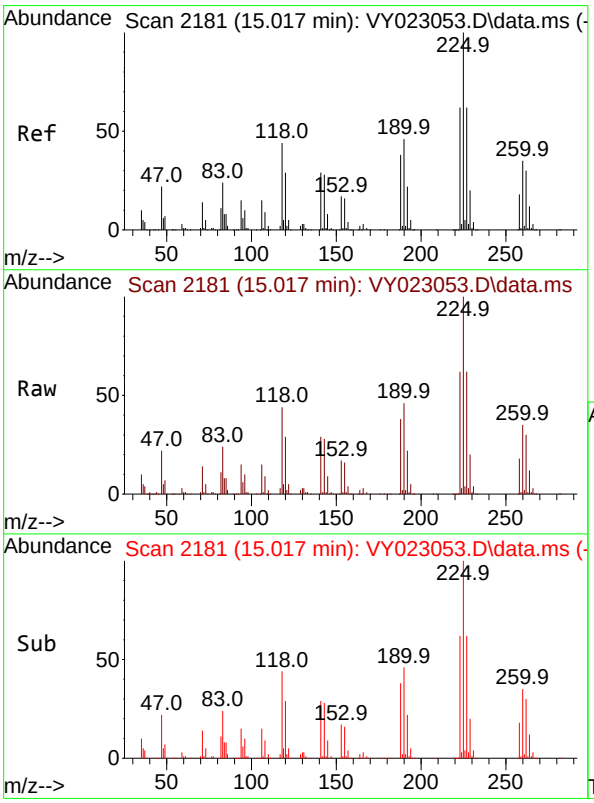
Ion	Ratio	Lower	Upper
180	100		
182	93.6	46.8	140.4
145	28.9	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

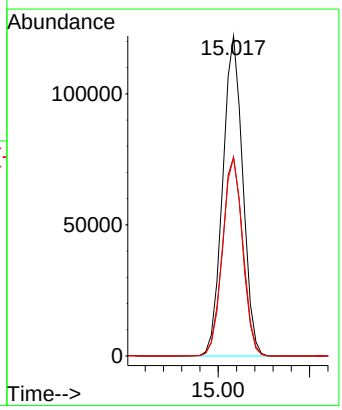
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

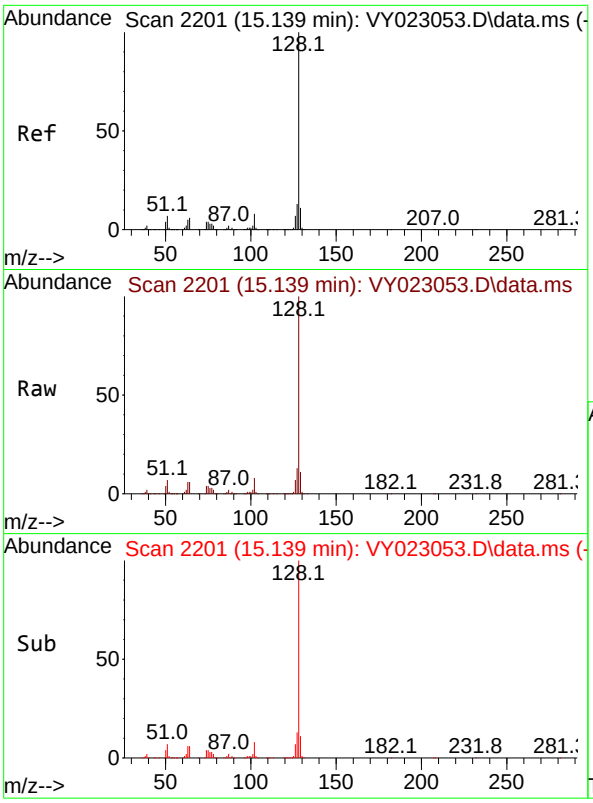


#94
Hexachlorobutadiene
Concen: 48.543 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

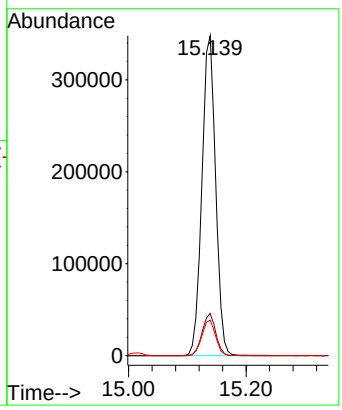




#95
Naphthalene
Concen: 50.685 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:128 Resp: 56236

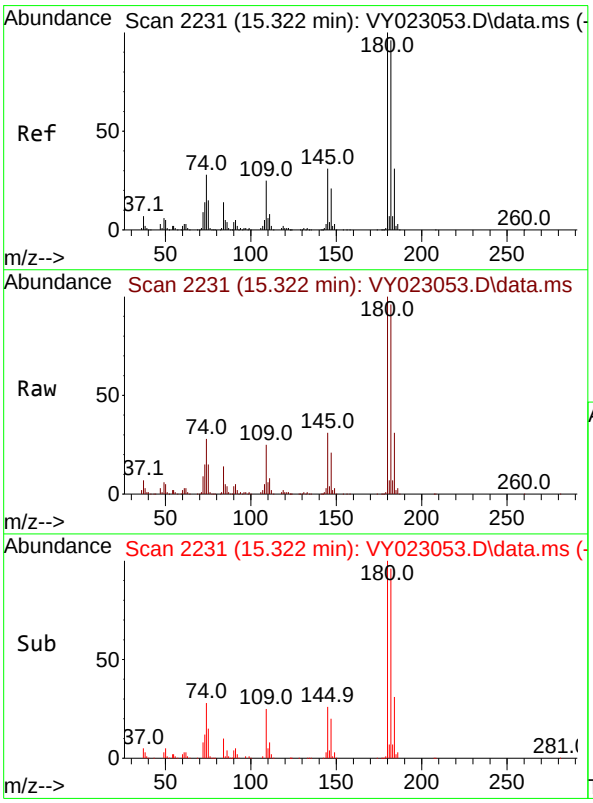
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.2	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

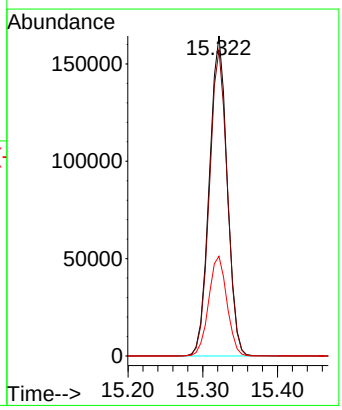
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#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



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

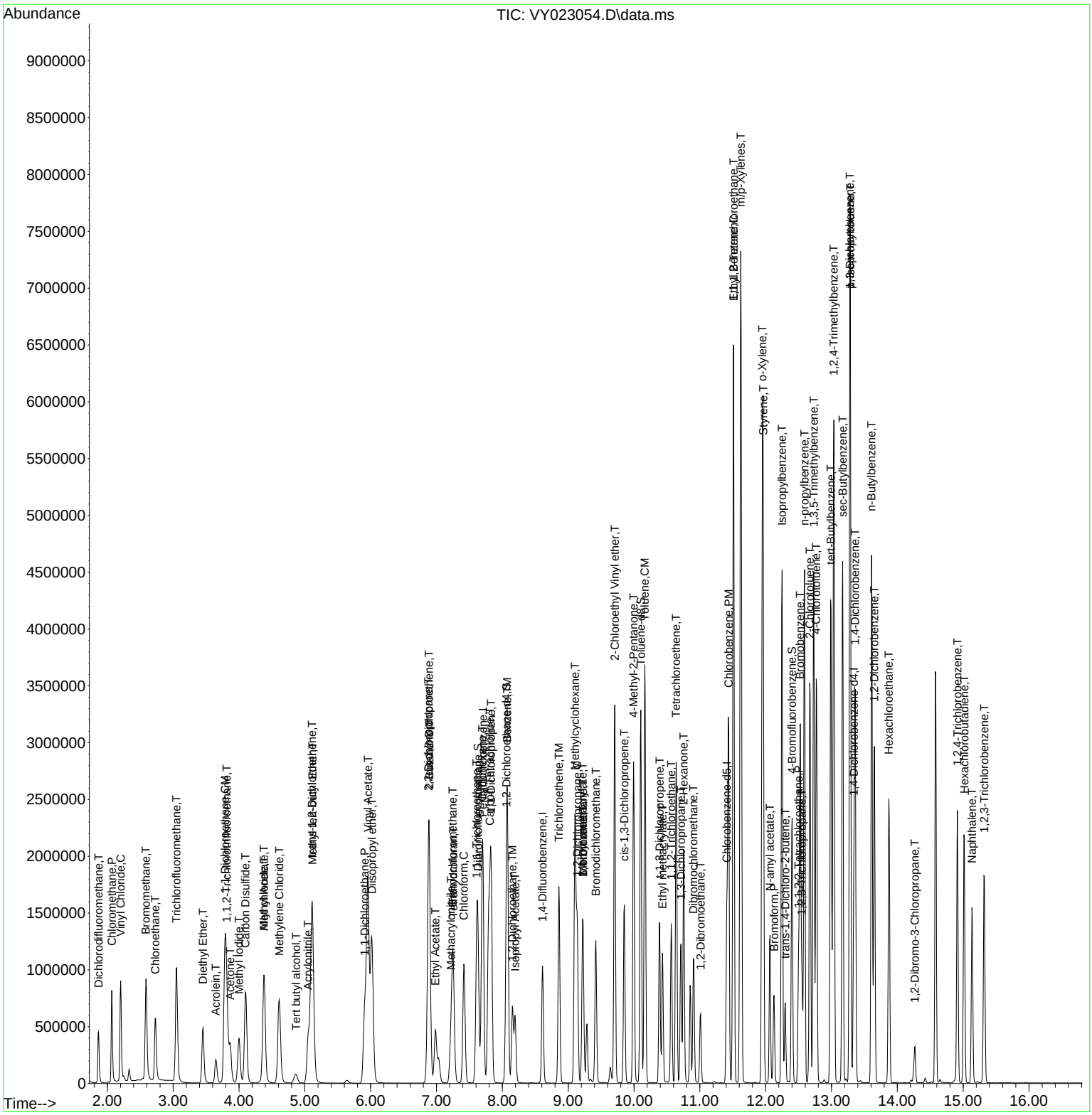
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

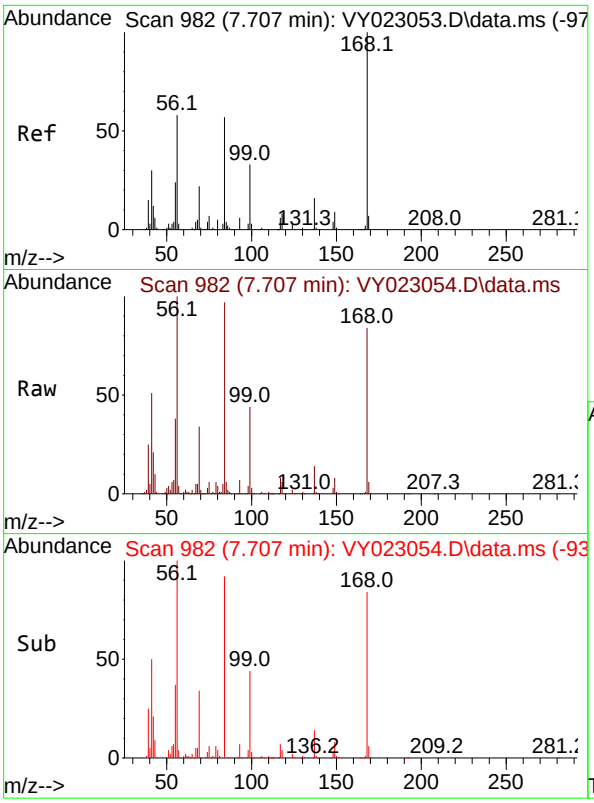
Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

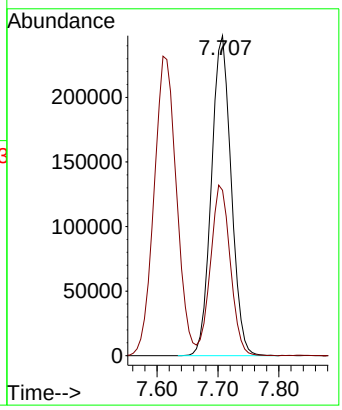




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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
APPROVED

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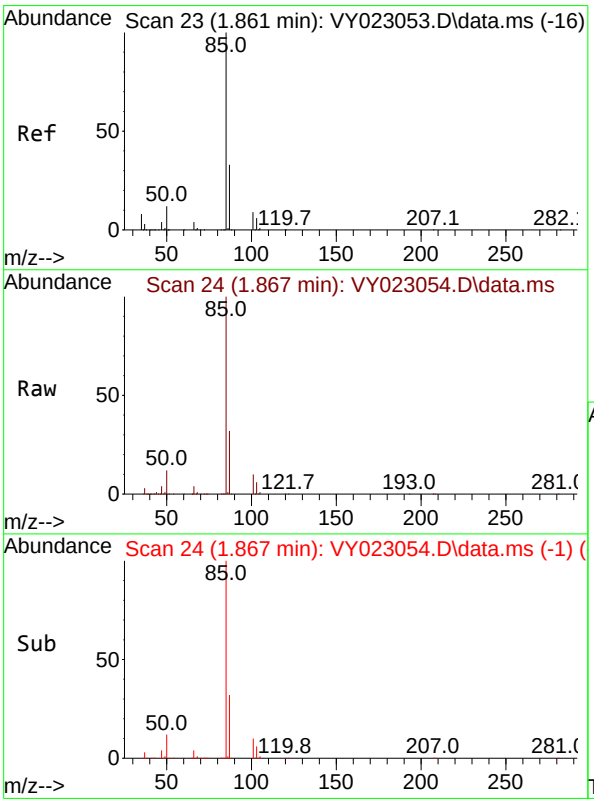
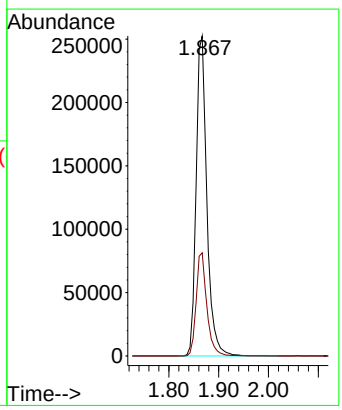
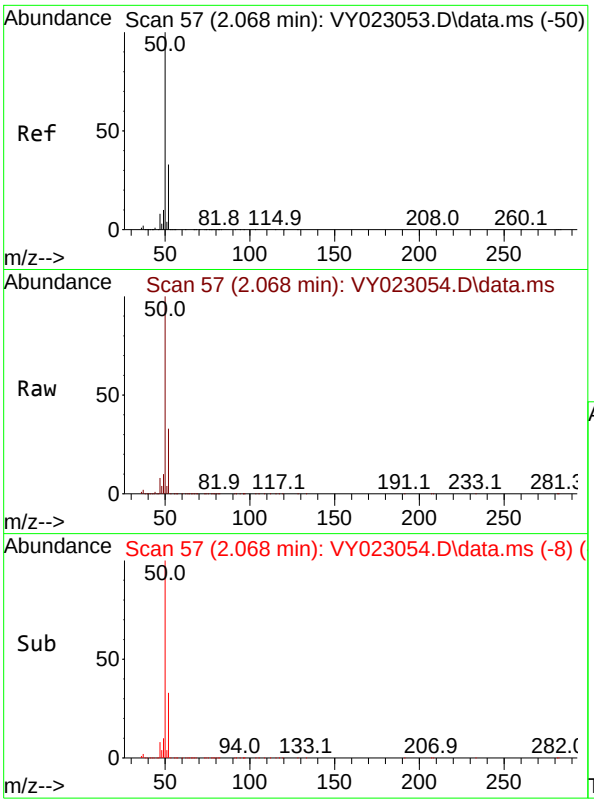


#2
Dichlorodifluoromethane
Concen: 82.570 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 85 Resp: 376261

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8

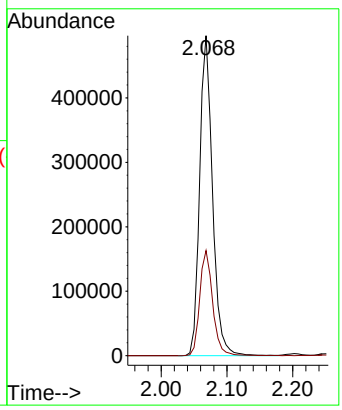




#3
Chloromethane
Concen: 91.248 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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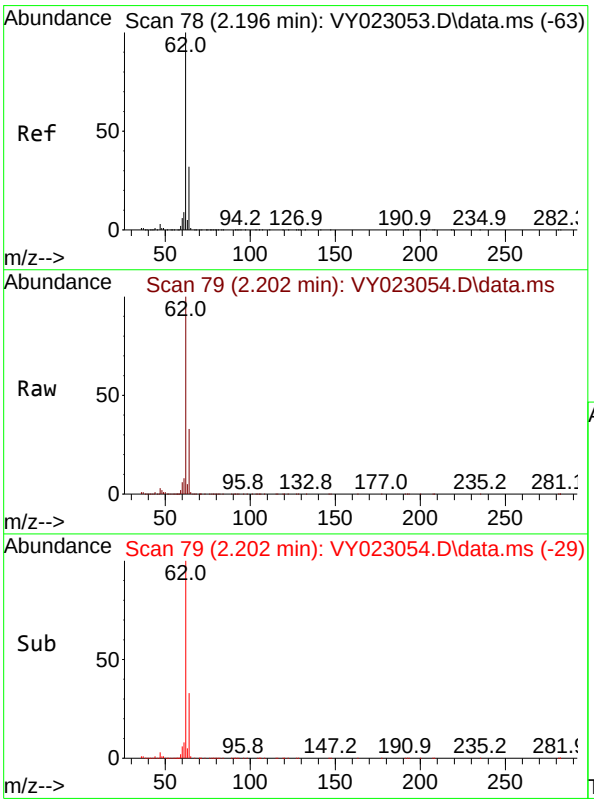
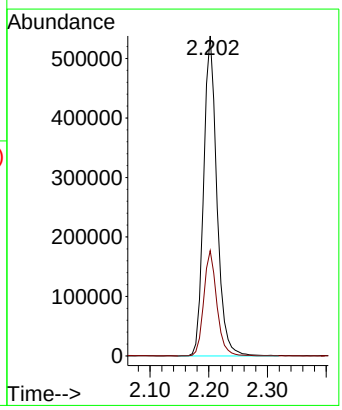
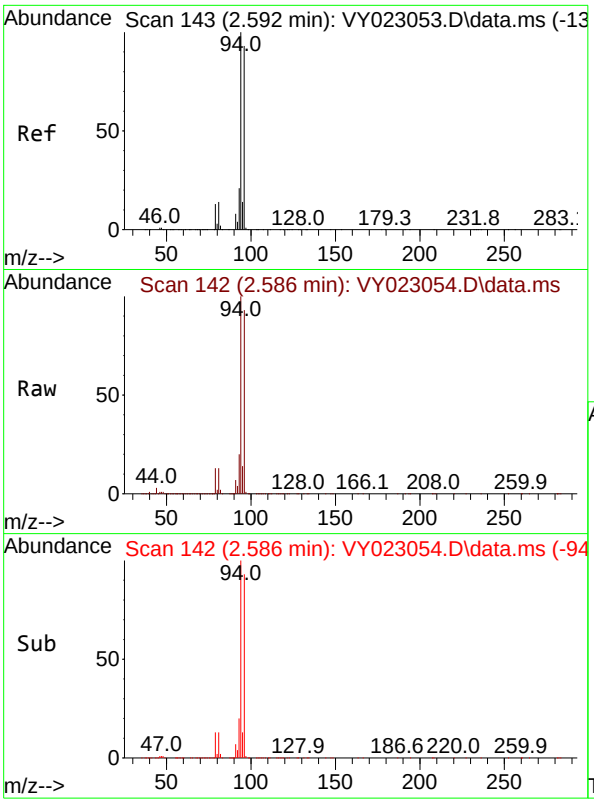


#4
Vinyl Chloride
Concen: 92.250 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

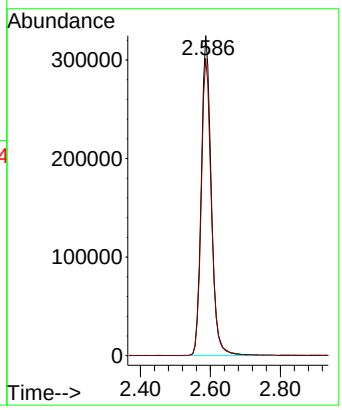
Tgt Ion: 94 Resp: 64310

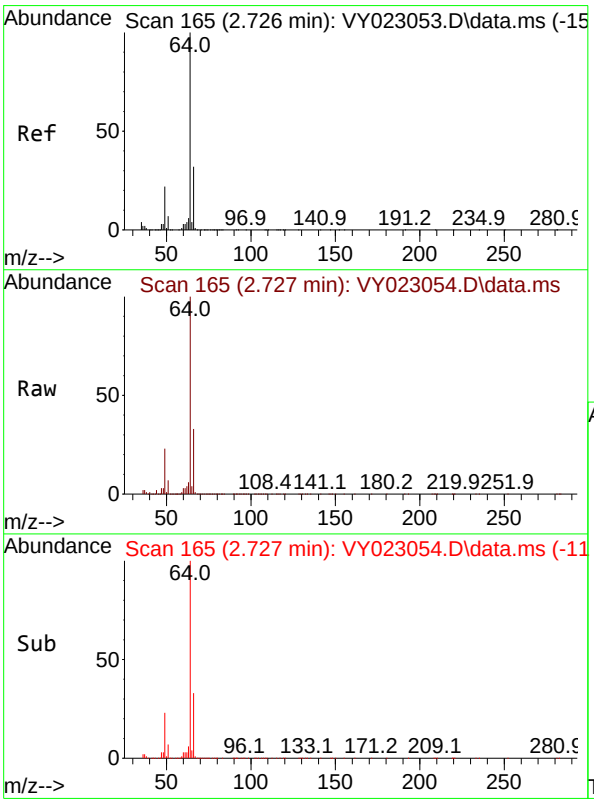
Ion	Ratio	Lower	Upper
94	100		
96	92.9	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

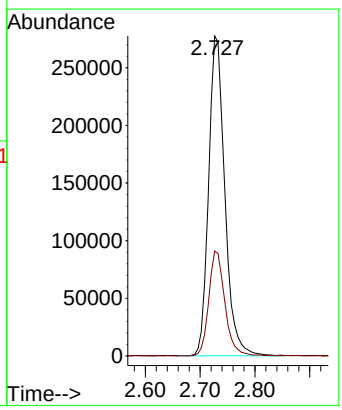


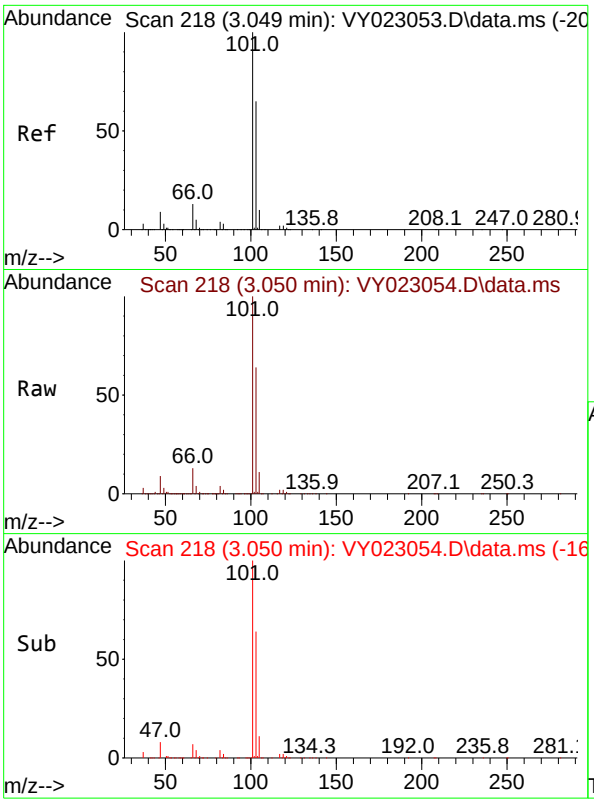


#6
Chloroethane
Concen: 93.563 ug/l
RT: 2.727 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 64 Resp: 567515

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.8	38.6

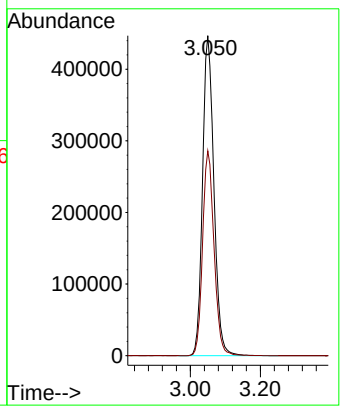




#7
Trichlorofluoromethane
Concen: 90.617 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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 APPROVED

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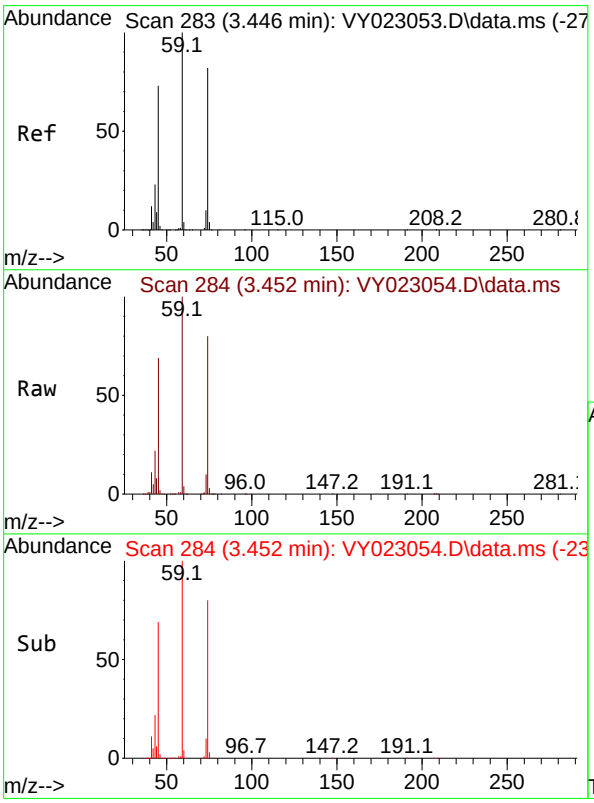
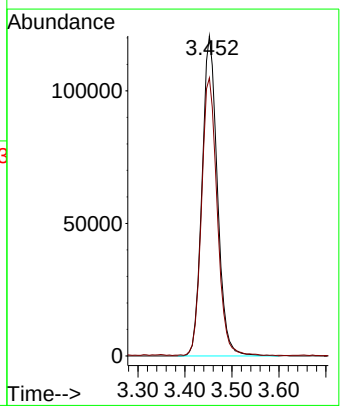
Supervised By :Semsettin Yesilyurt 08/14/2025

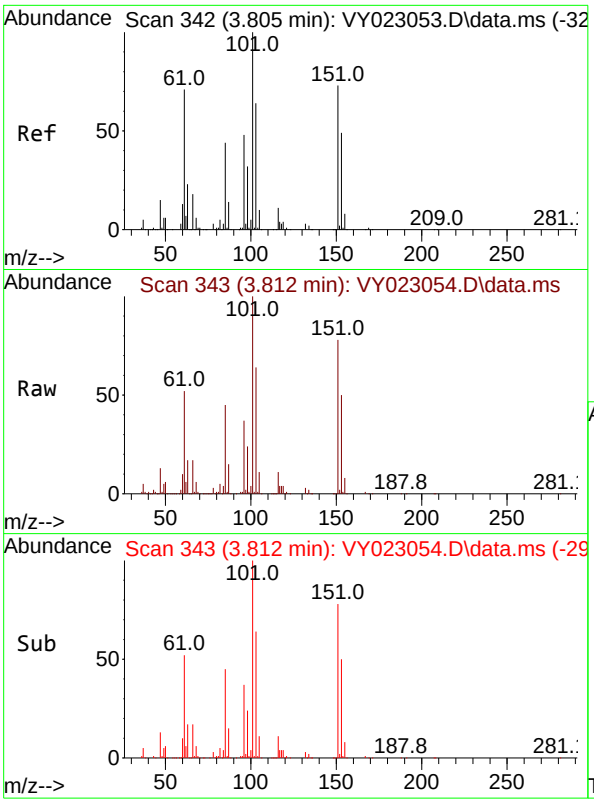


#8
Diethyl Ether
Concen: 93.150 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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# 3
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
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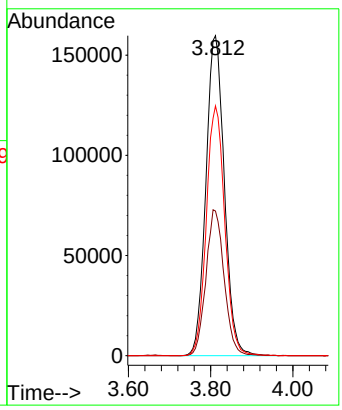
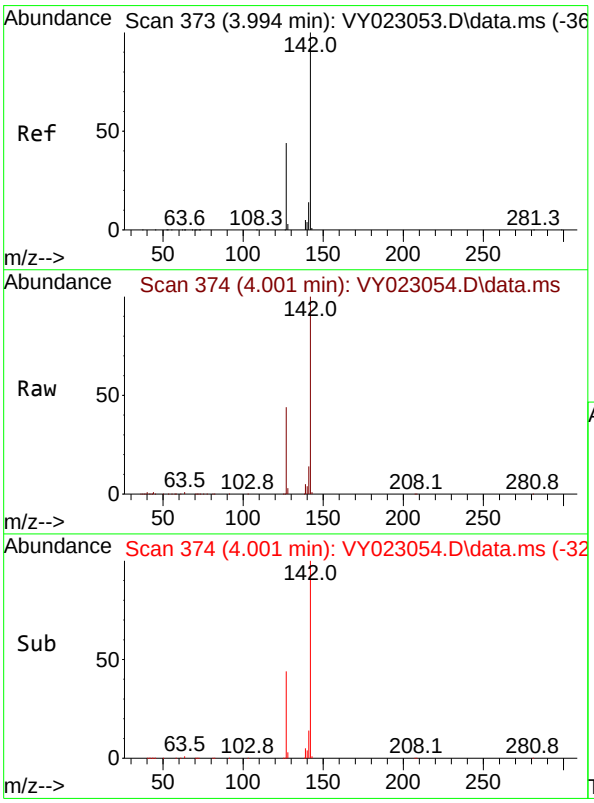
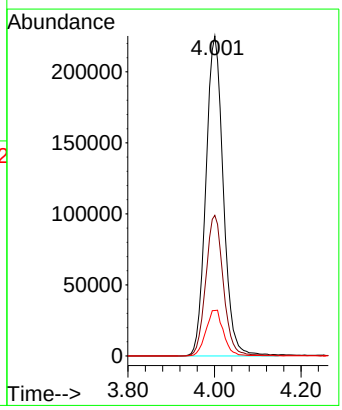


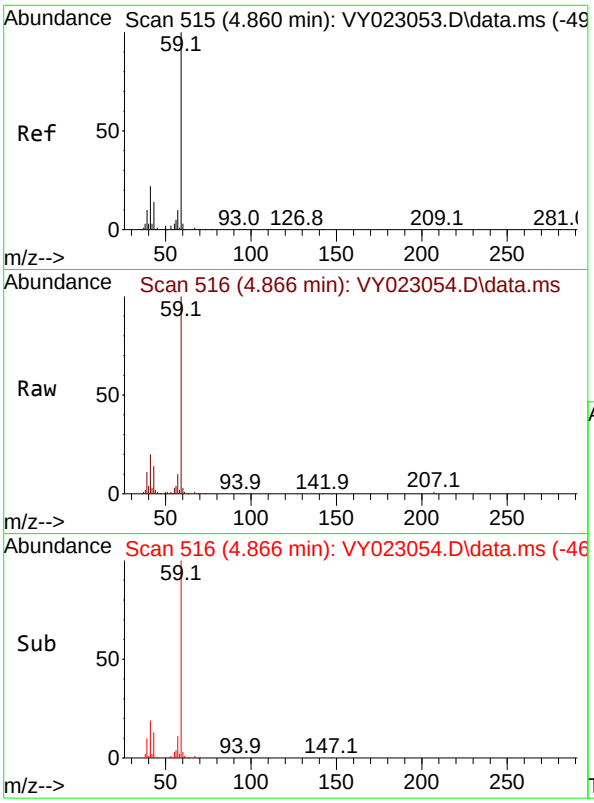


#10
Methyl Iodide
Concen: 106.635 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

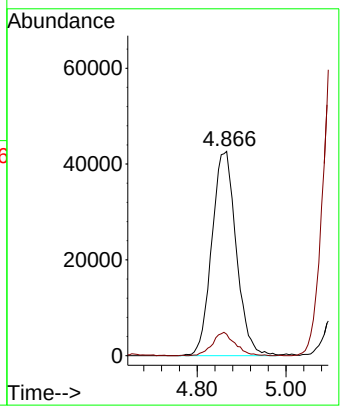




#11
Tert butyl alcohol
Concen: 445.387 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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
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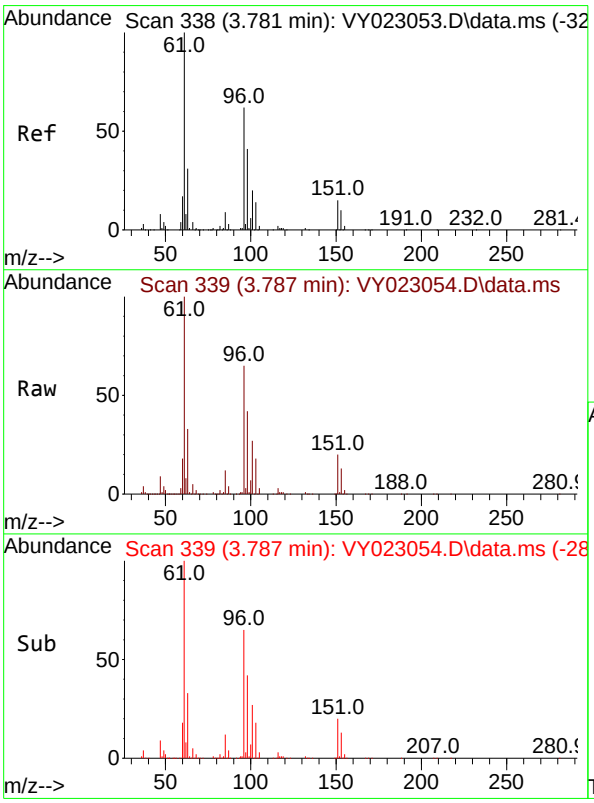
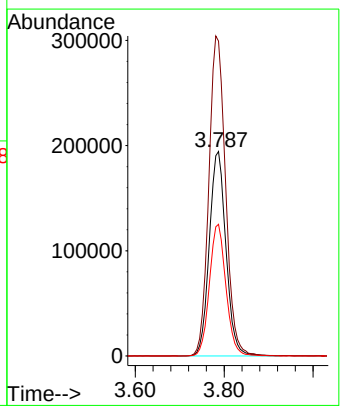
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

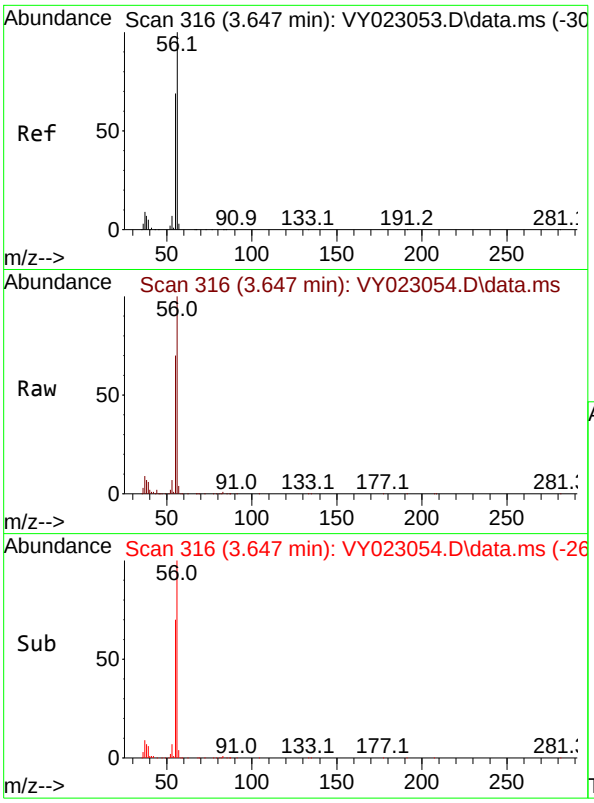


#12
1,1-Dichloroethene
Concen: 94.229 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

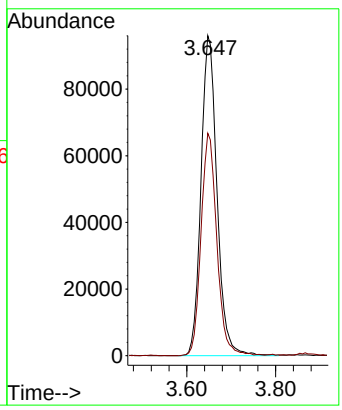




#13
Acrolein
Concen: 450.599 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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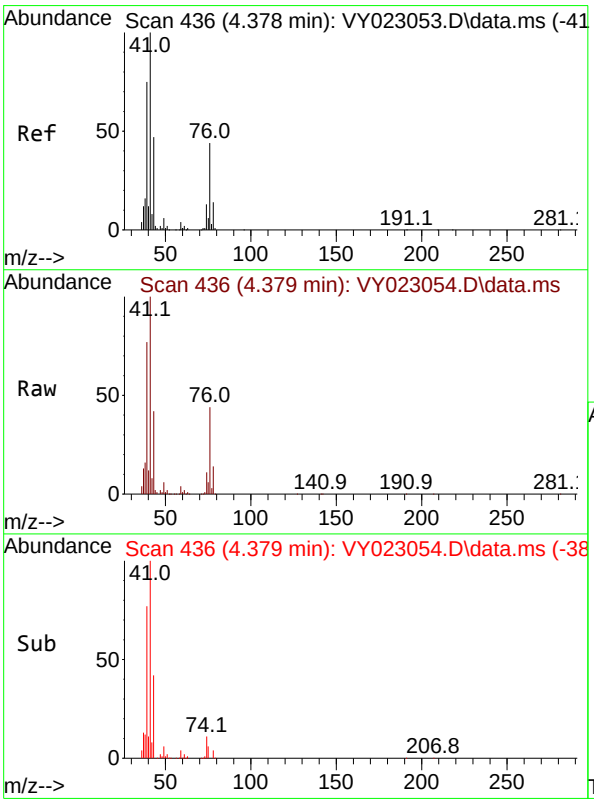
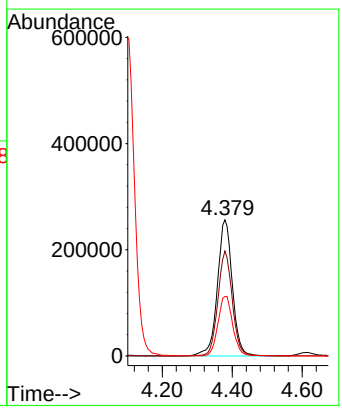
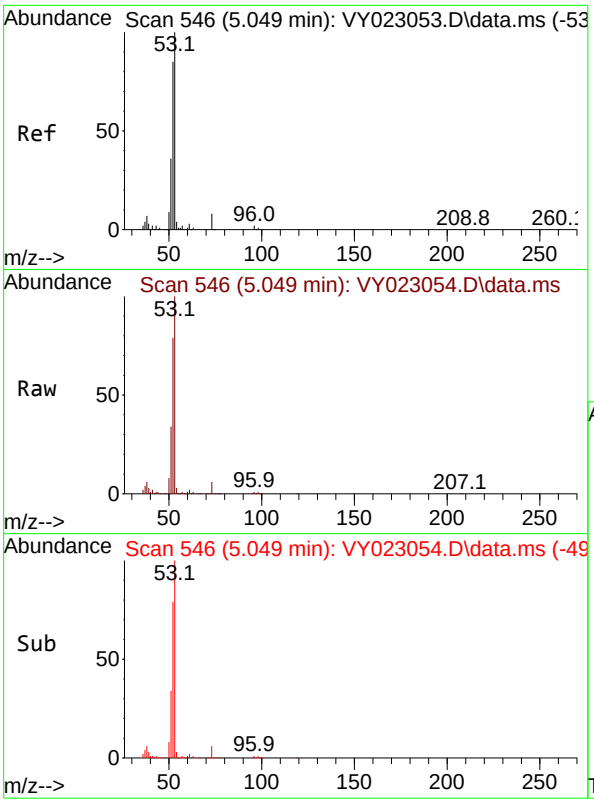


#14
Allyl chloride
Concen: 96.000 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

Manual Integrations
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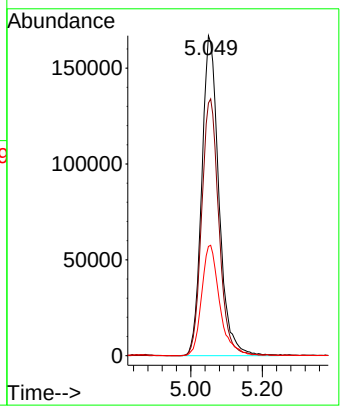
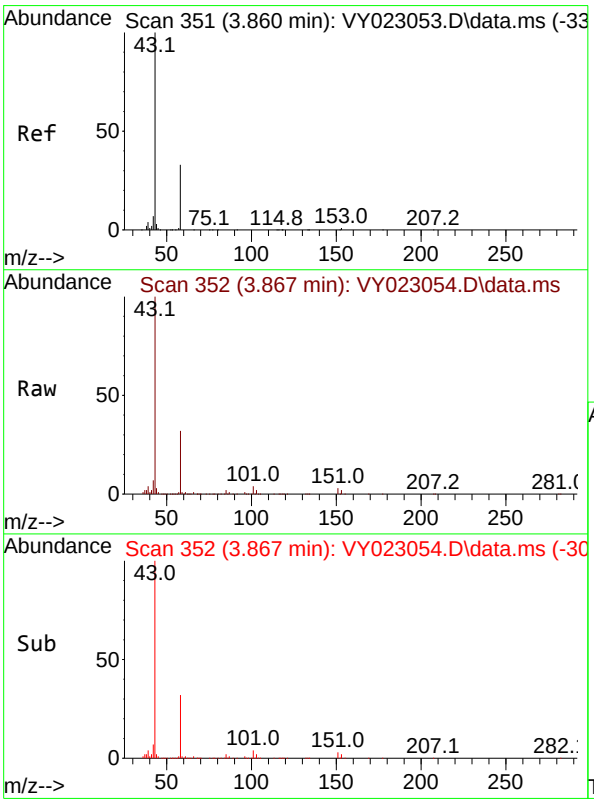
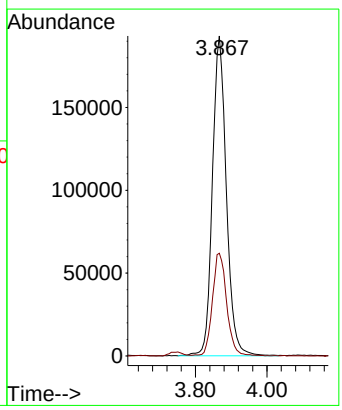


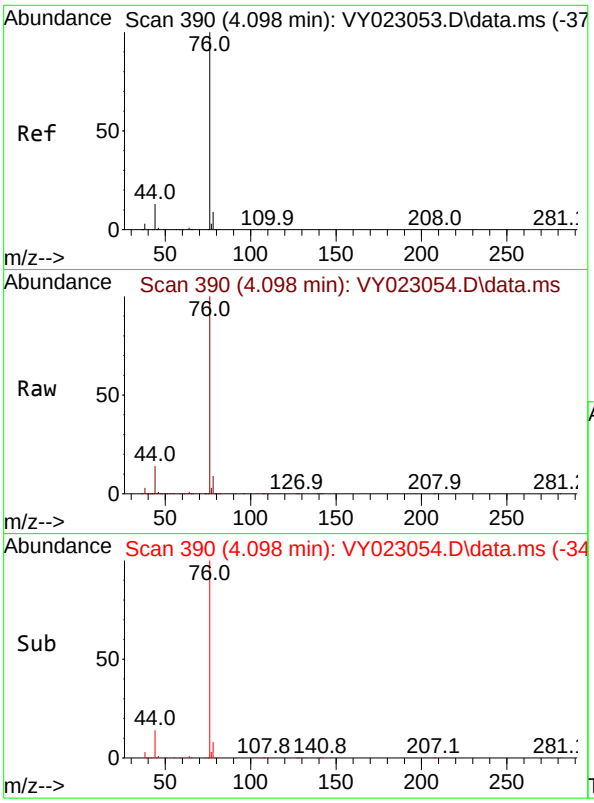


#16
Acetone
Concen: 453.007 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 522178

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7

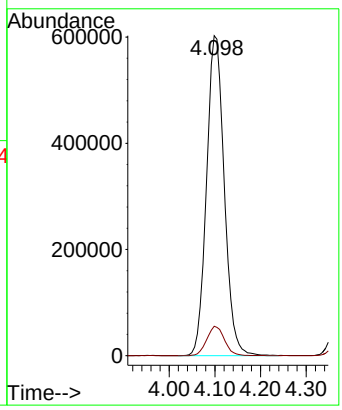




#17
Carbon Disulfide
Concen: 92.494 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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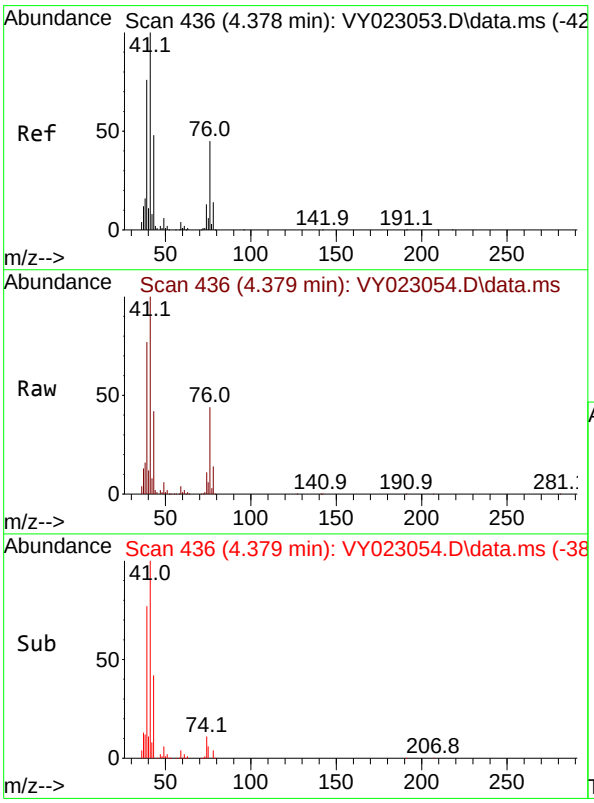
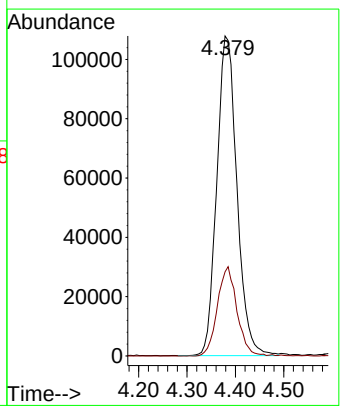
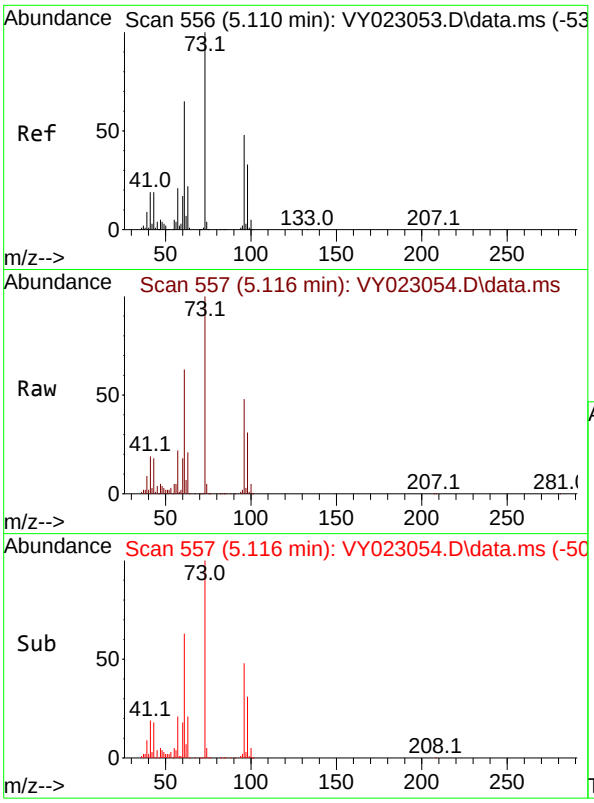


#18
Methyl Acetate
Concen: 90.993 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 312127

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8

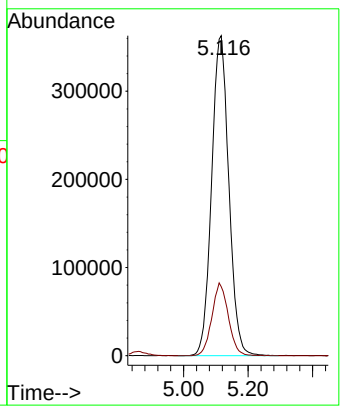




#19
Methyl tert-butyl Ether
Concen: 96.284 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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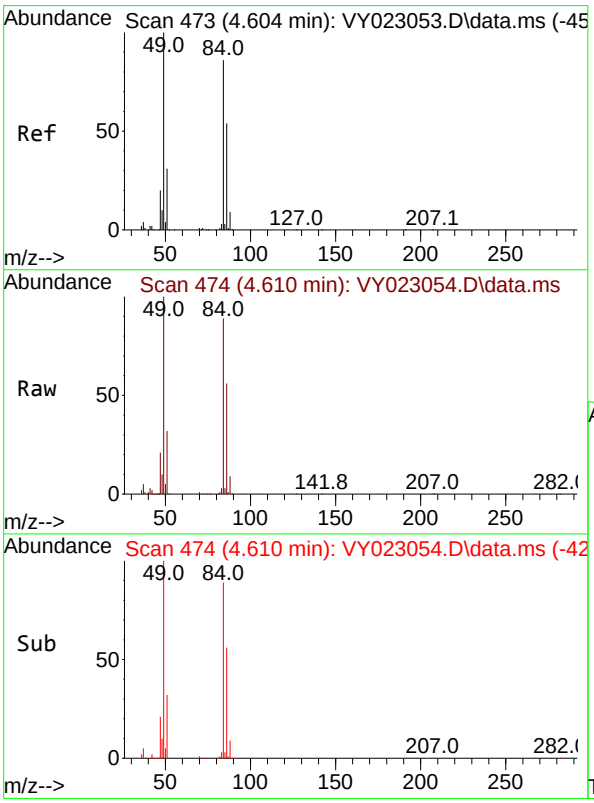
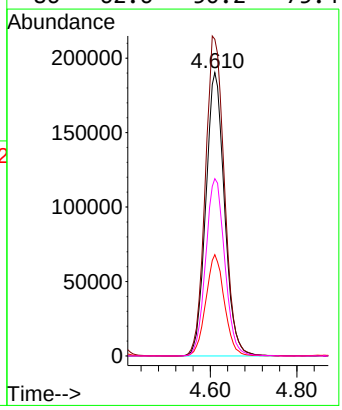
Supervised By :Semsettin Yesilyurt 08/14/2025

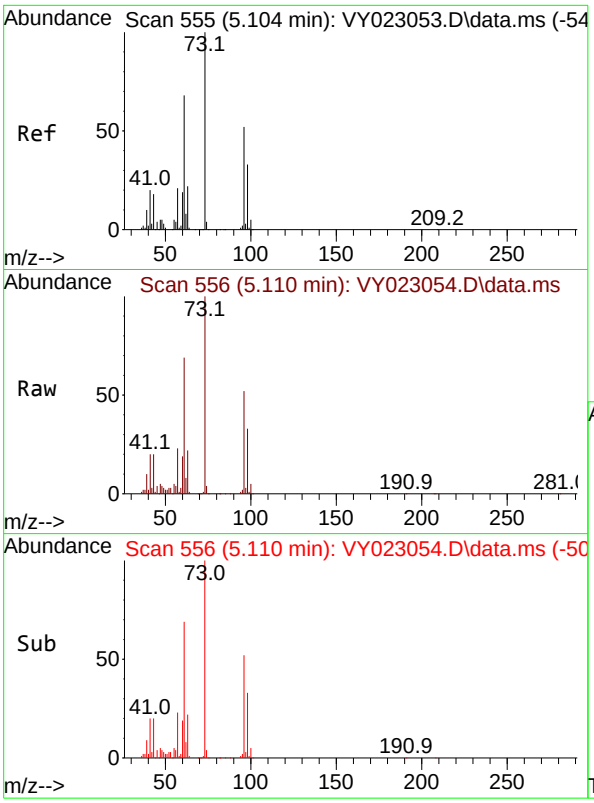


#20
Methylene Chloride
Concen: 97.847 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

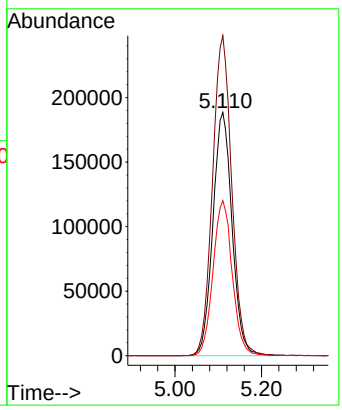




#21
trans-1,2-Dichloroethene
Concen: 96.098 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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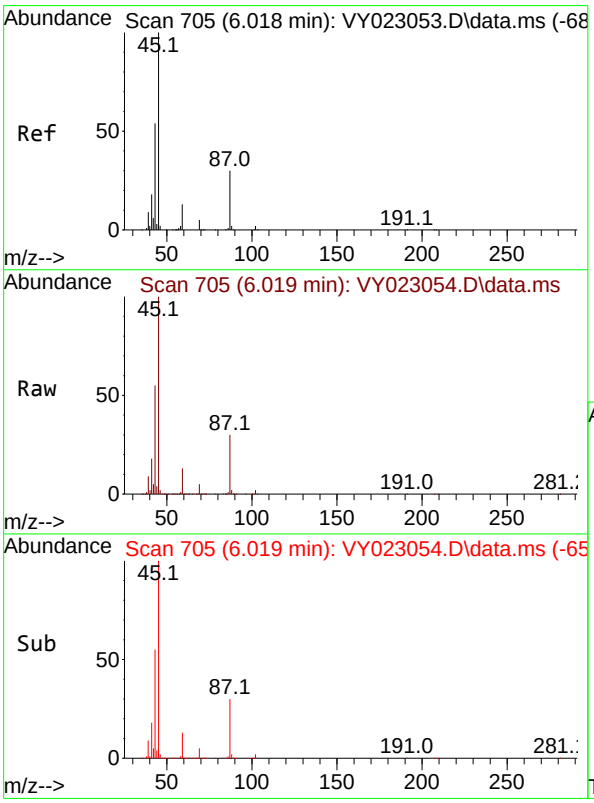
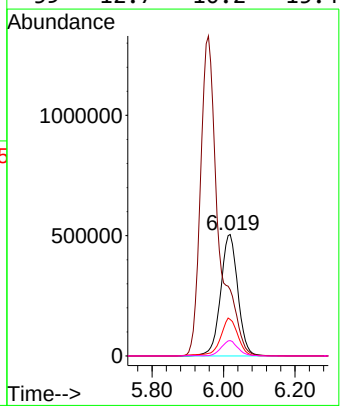
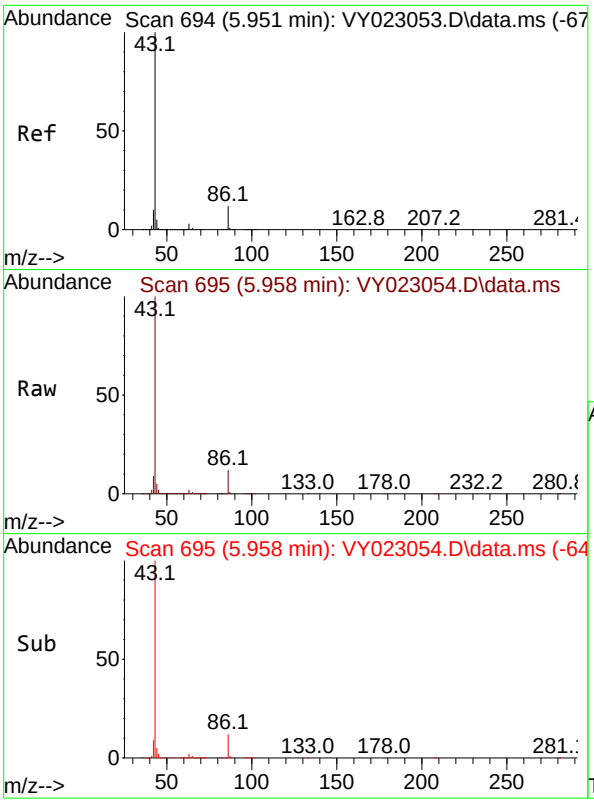


#22
Diisopropyl ether
Concen: 98.033 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

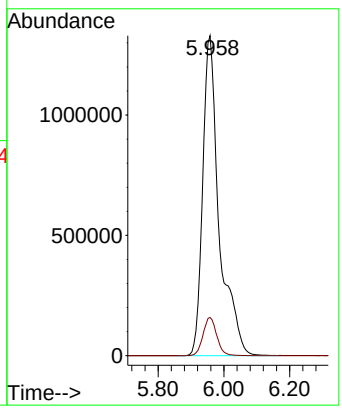




#23
Vinyl Acetate
Concen: 487.023 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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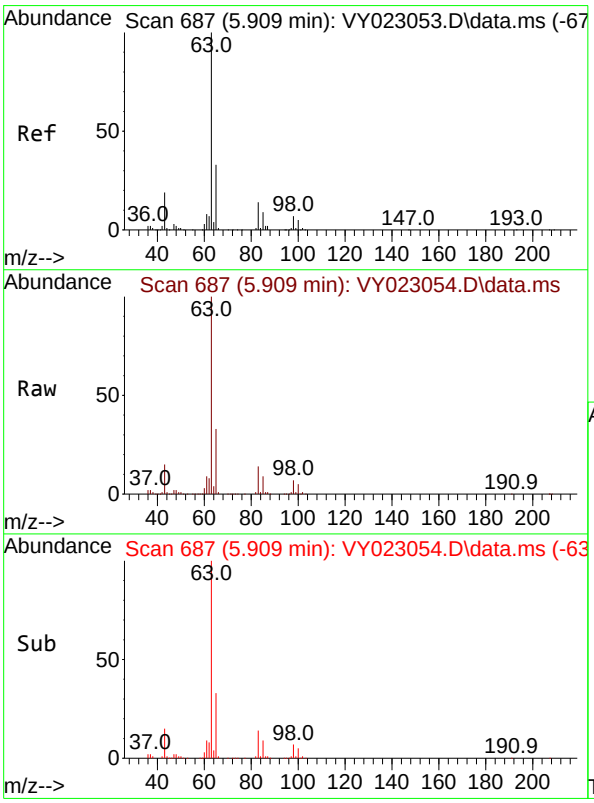
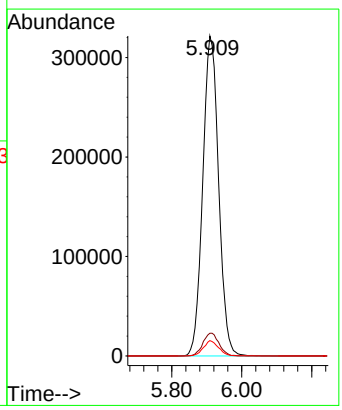
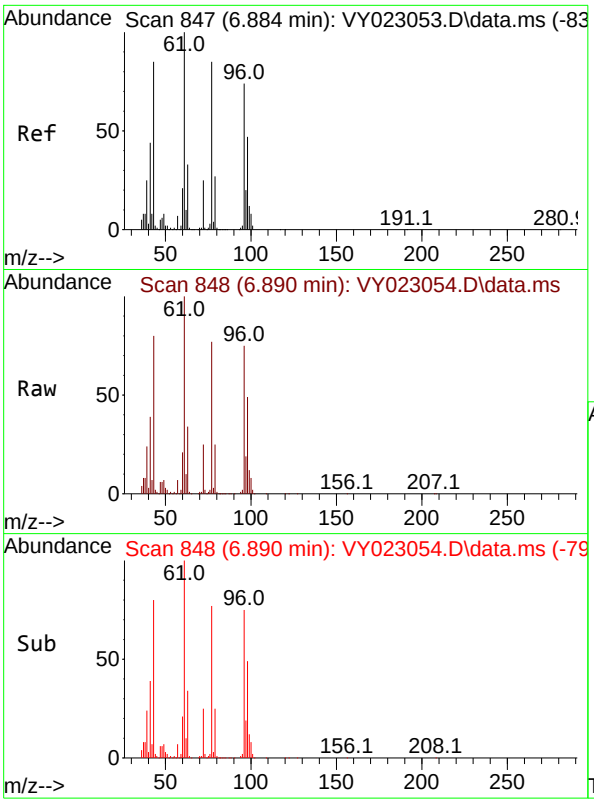


#24
1,1-Dichloroethane
Concen: 96.306 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

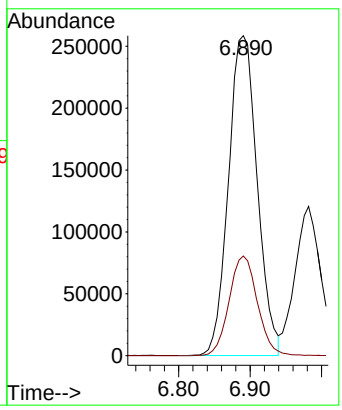




#25
2-Butanone
Concen: 460.899 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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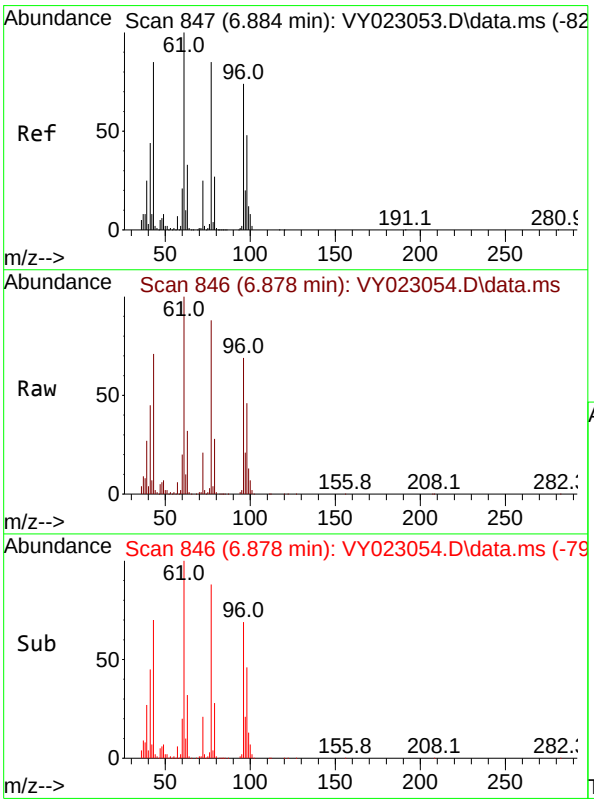
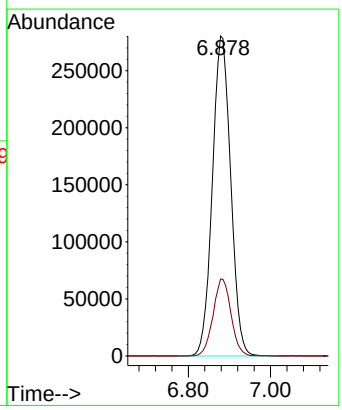
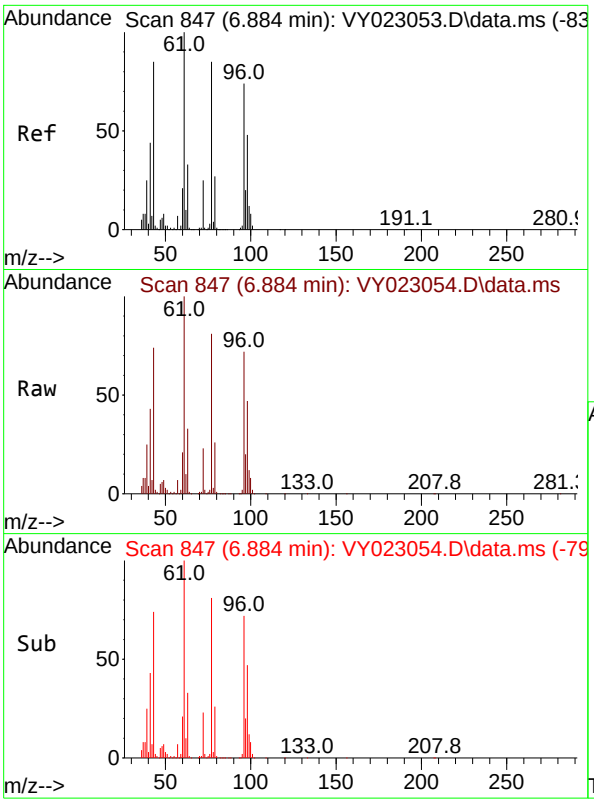


#26
2,2-Dichloropropane
Concen: 95.497 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 77 Resp: 866598

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.8

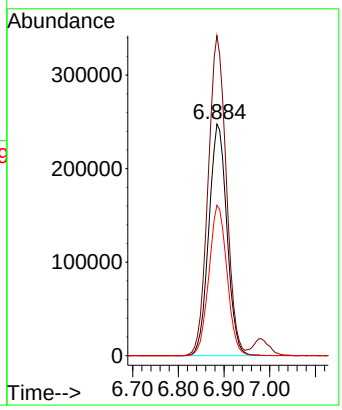




#27
cis-1,2-Dichloroethene
Concen: 97.472 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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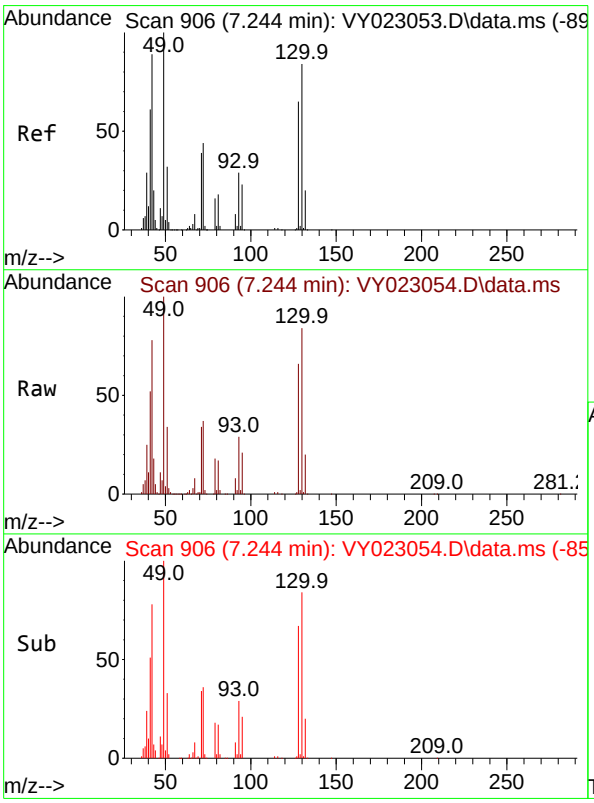
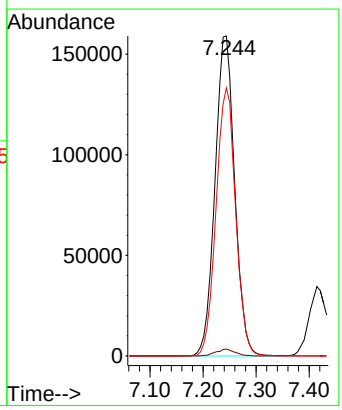
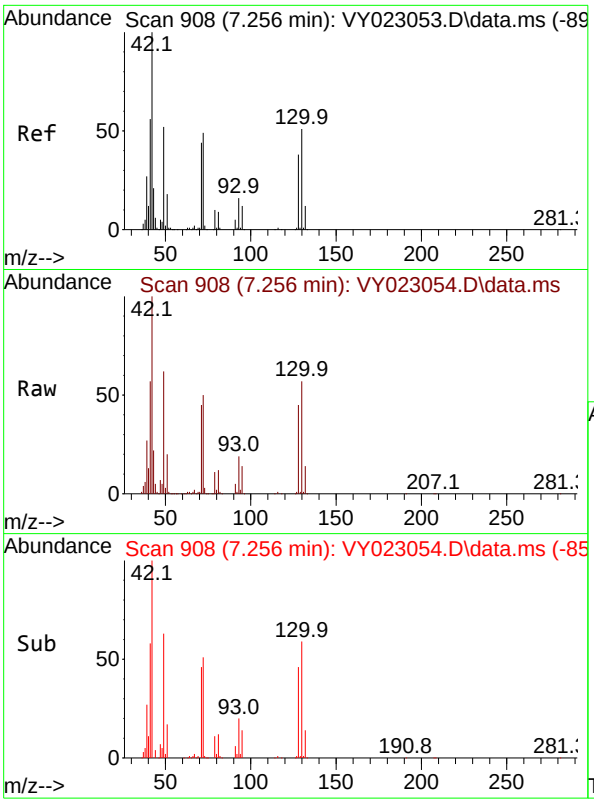


#28
Bromochloromethane
Concen: 98.188 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

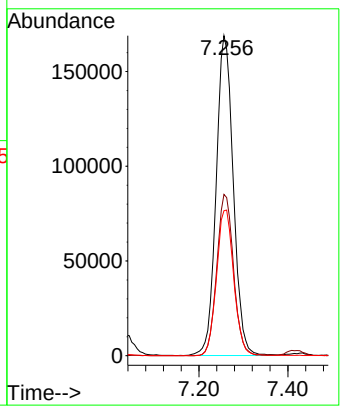




#29
Tetrahydrofuran
Concen: 464.370 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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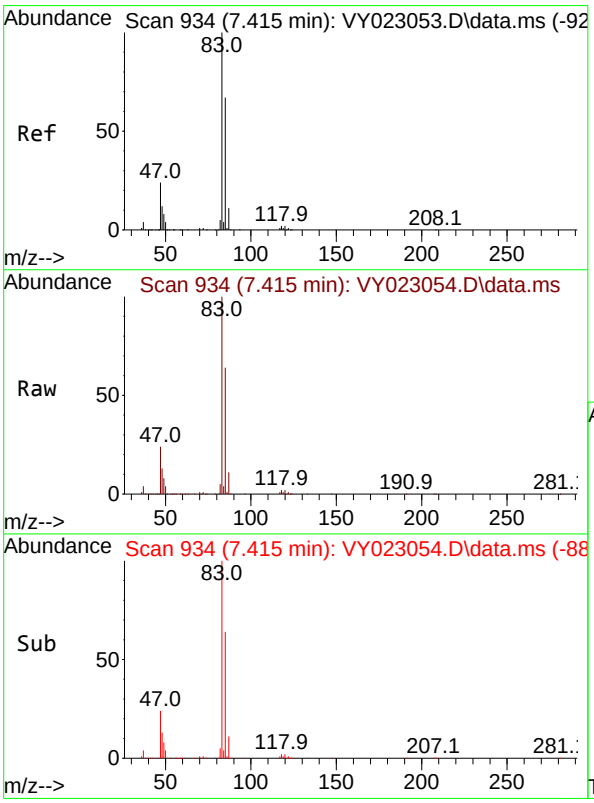
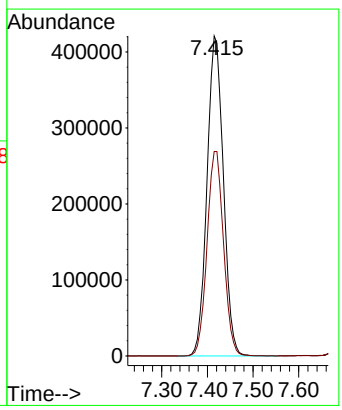
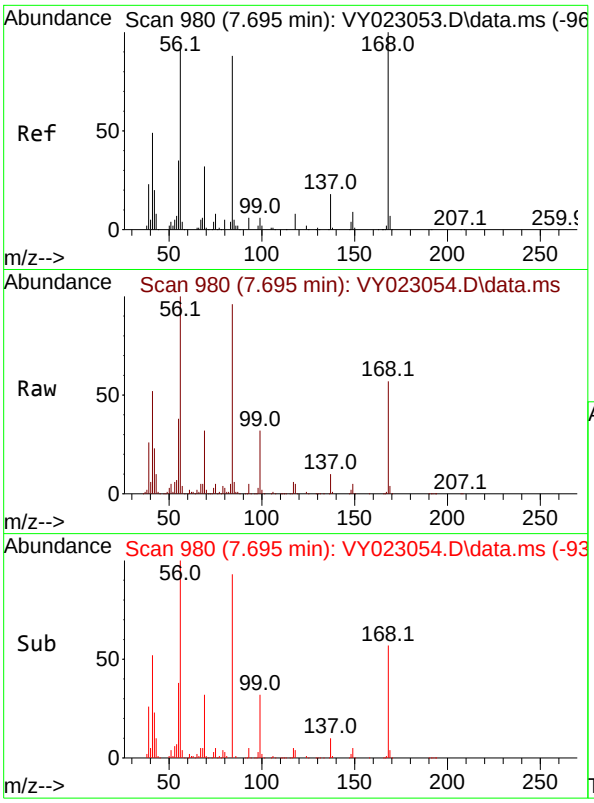


#30
Chloroform
Concen: 96.383 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 1045381

Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.8	80.8

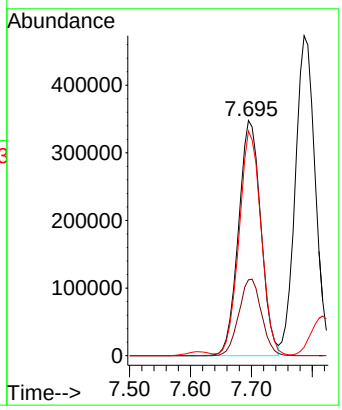




#31
Cyclohexane
Concen: 89.271 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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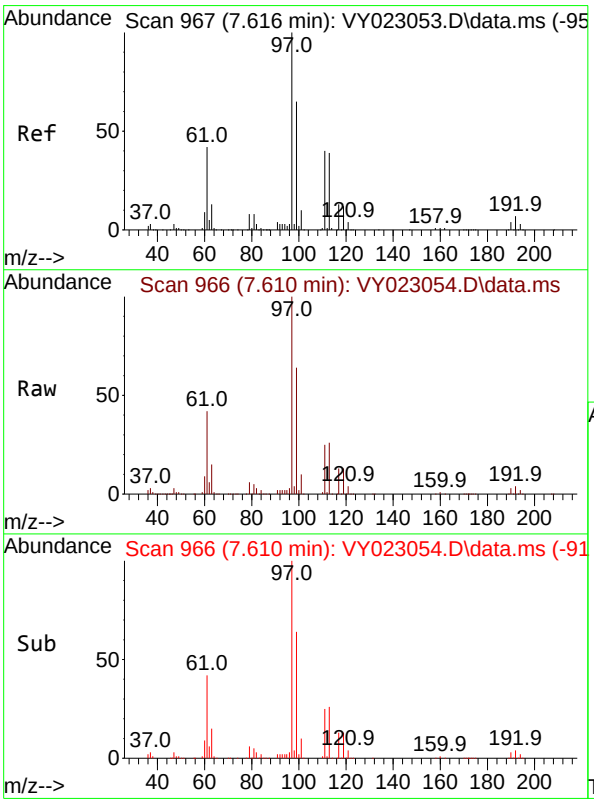
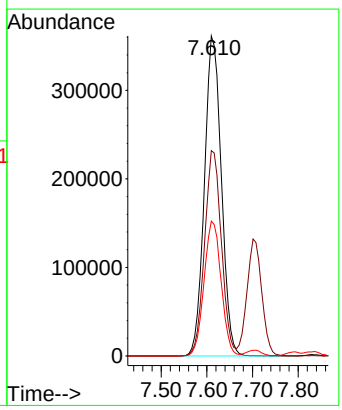
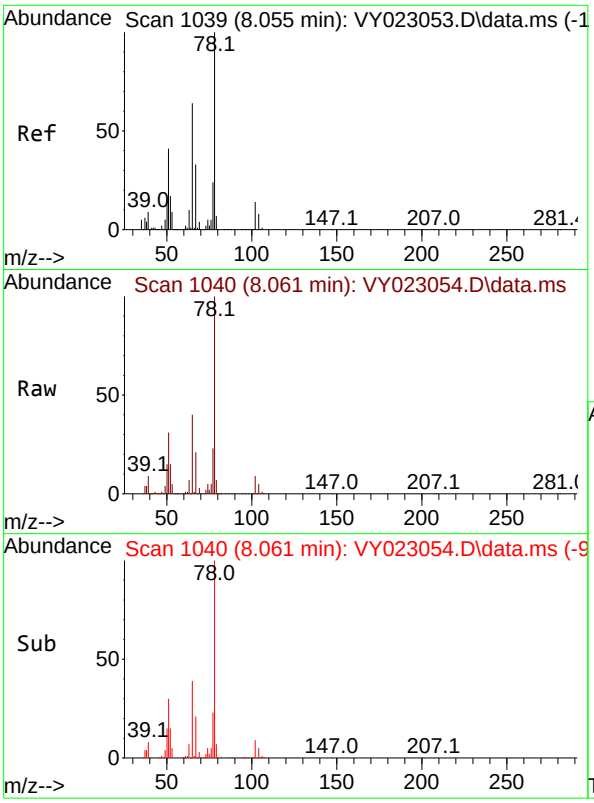


#32
1,1,1-Trichloroethane
Concen: 96.620 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

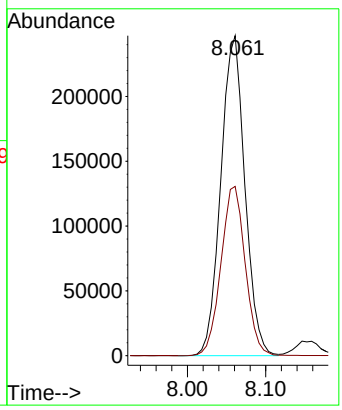




#33
1,2-Dichloroethane-d4
Concen: 99.115 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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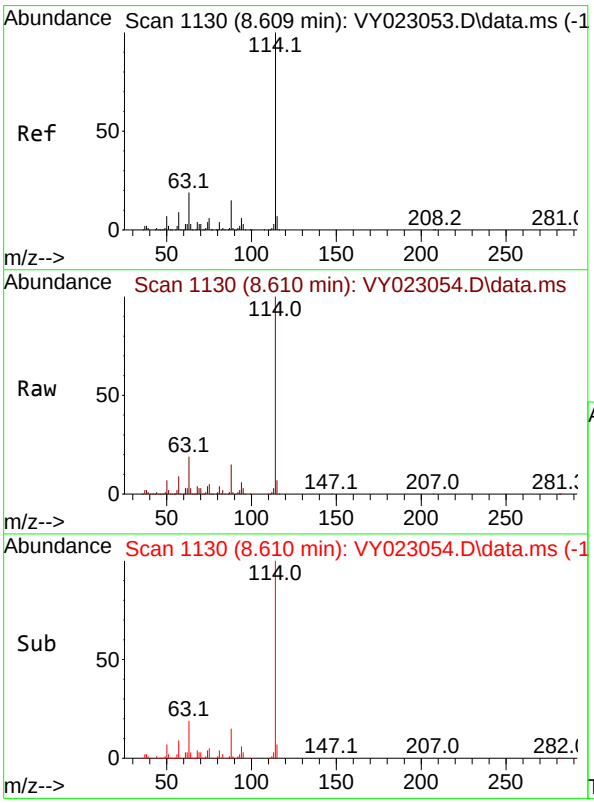
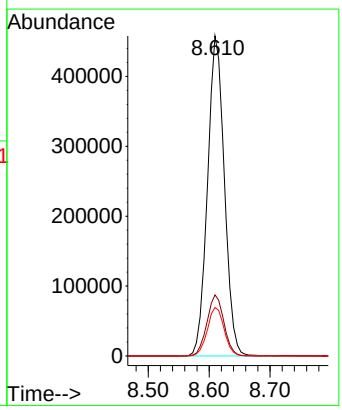
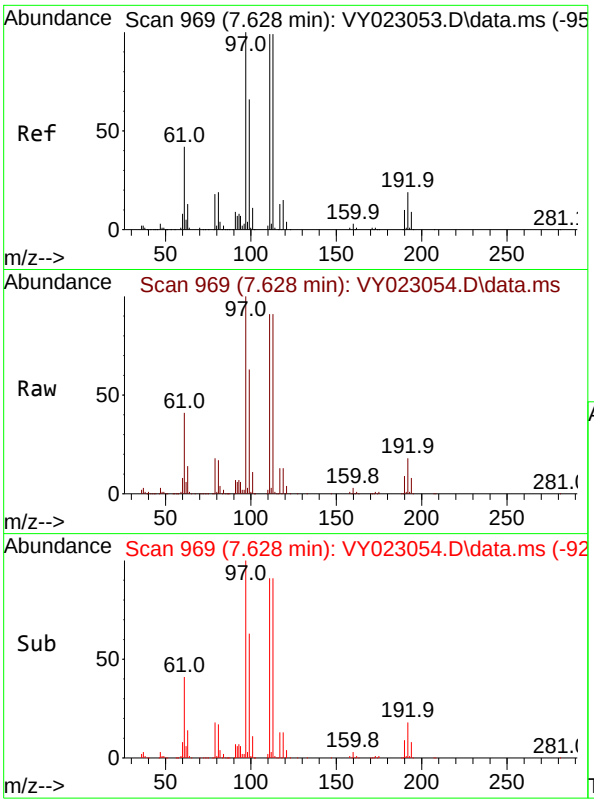


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

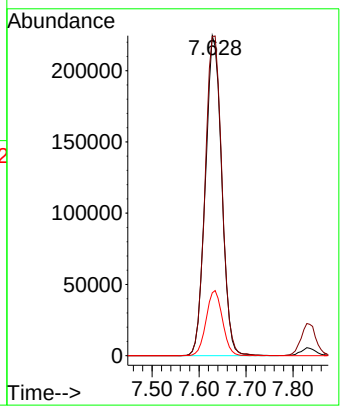




#35
Dibromofluoromethane
Concen: 102.518 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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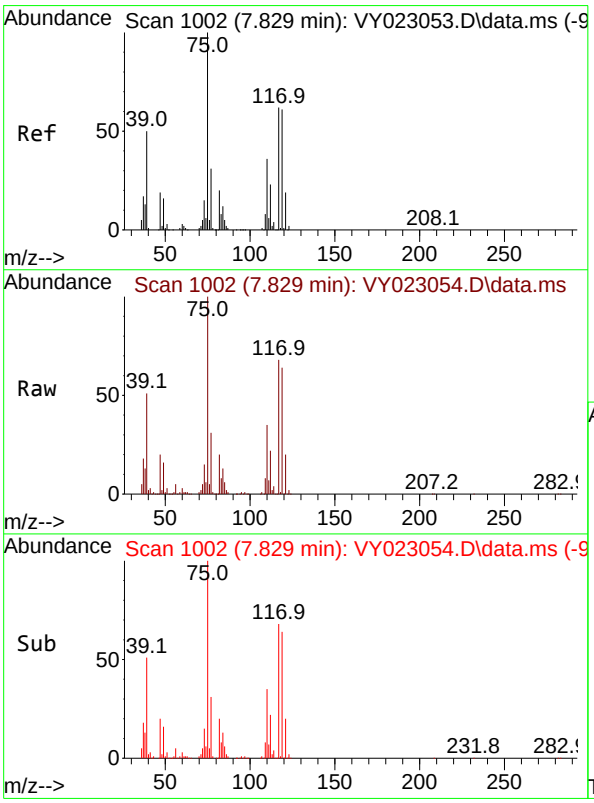
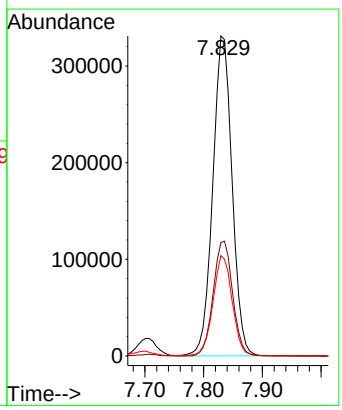
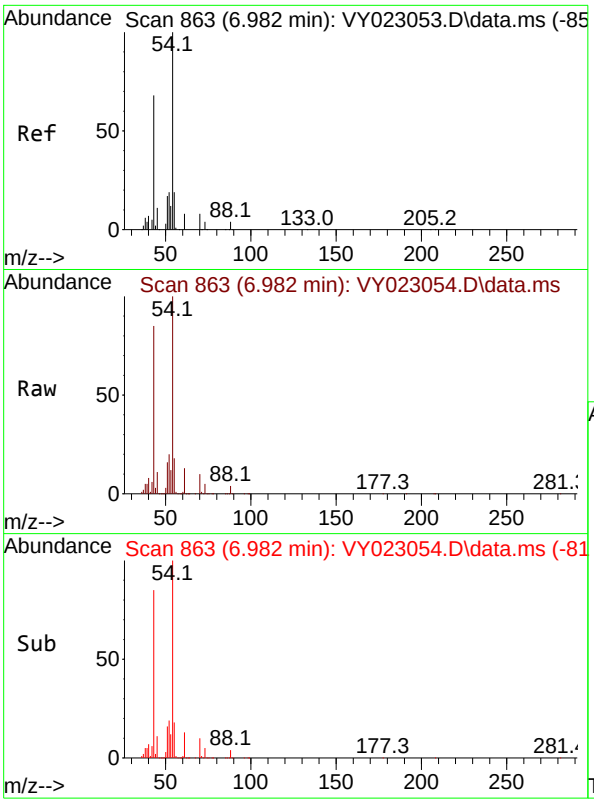


#36
1,1-Dichloropropene
Concen: 96.443 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

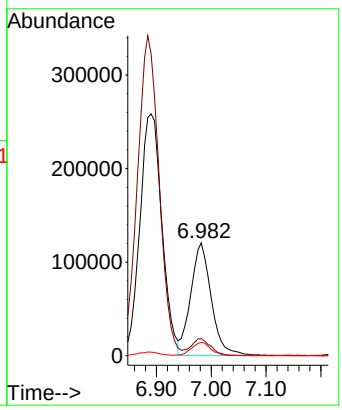




#37
Ethyl Acetate
Concen: 95.302 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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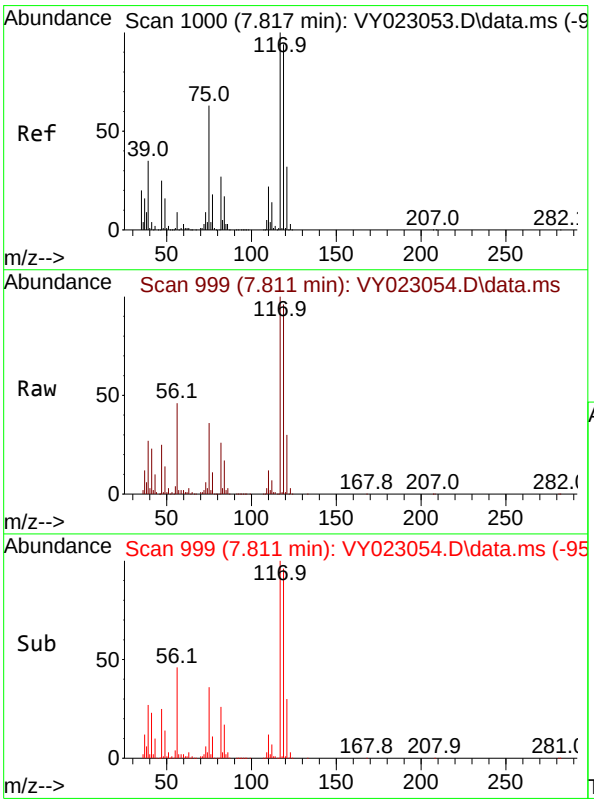
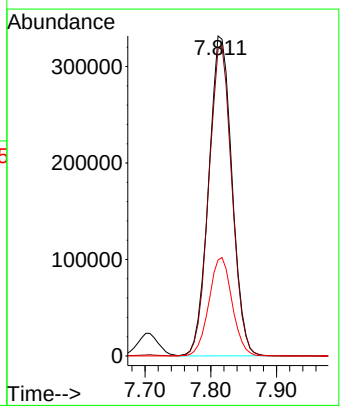
Supervised By :Semsettin Yesilyurt 08/14/2025

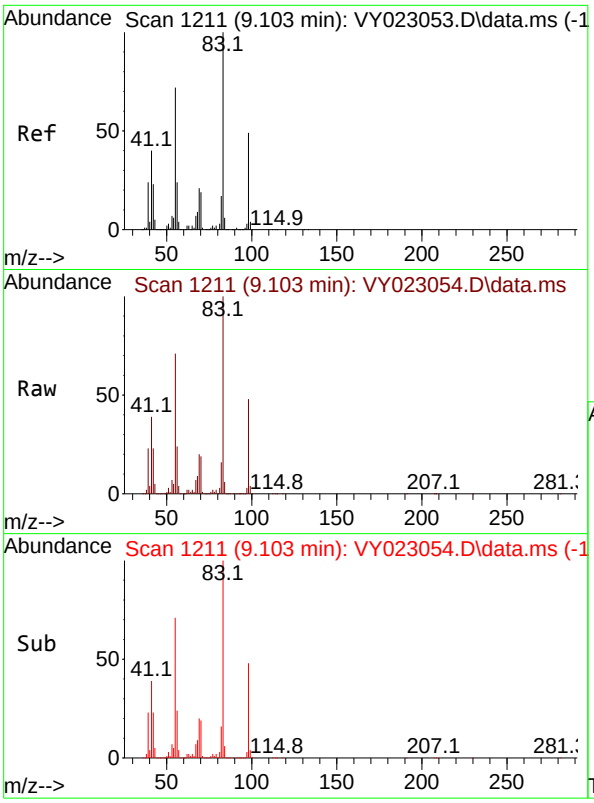


#38
Carbon Tetrachloride
Concen: 96.419 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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 :
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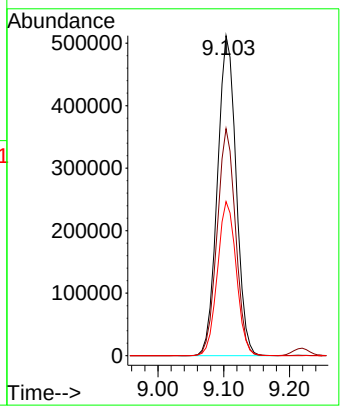
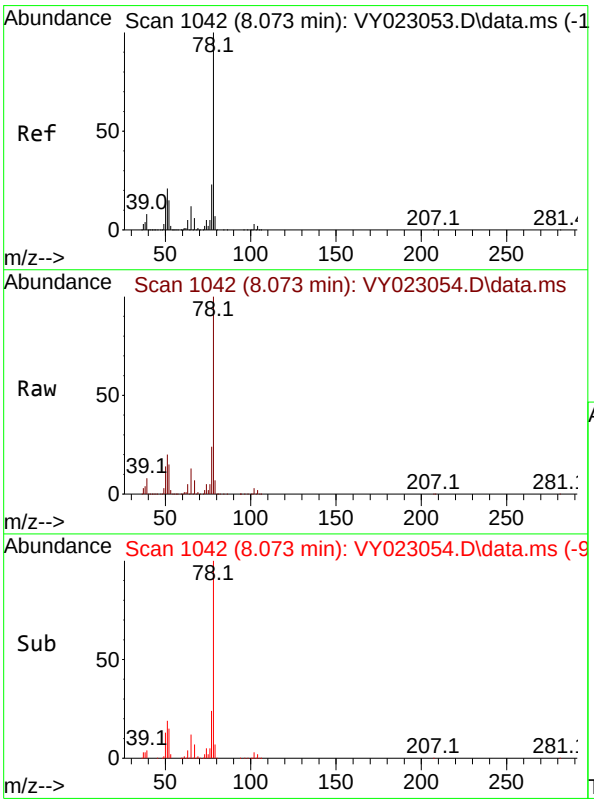
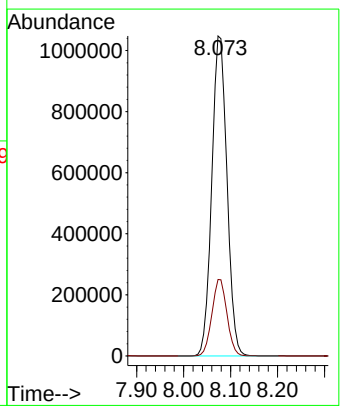


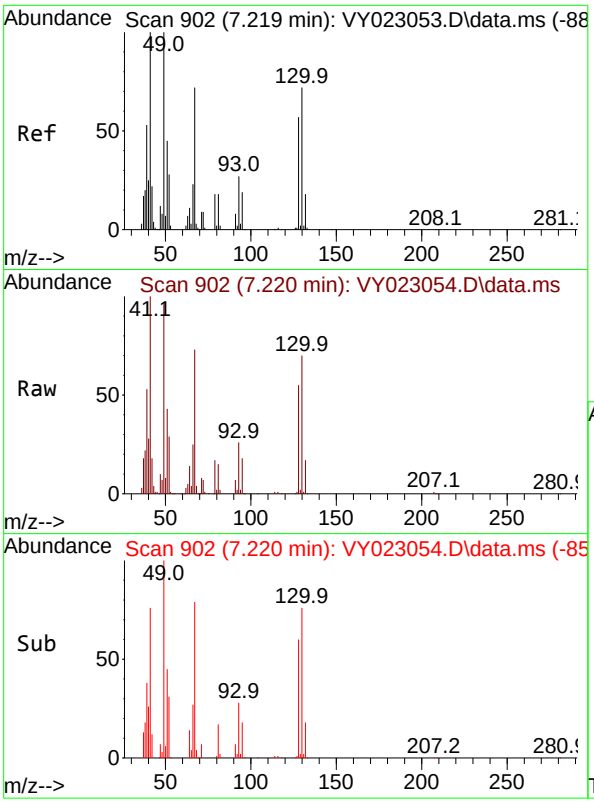


#40
Benzene
Concen: 97.324 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 78 Resp: 2348617

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0

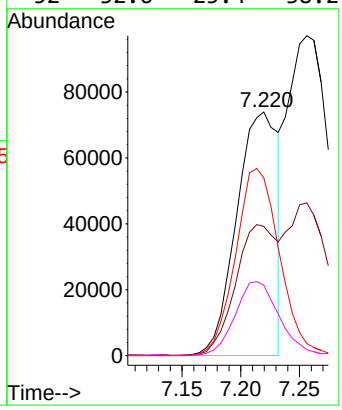




#41
Methacrylonitrile
Concen: 94.973 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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 :
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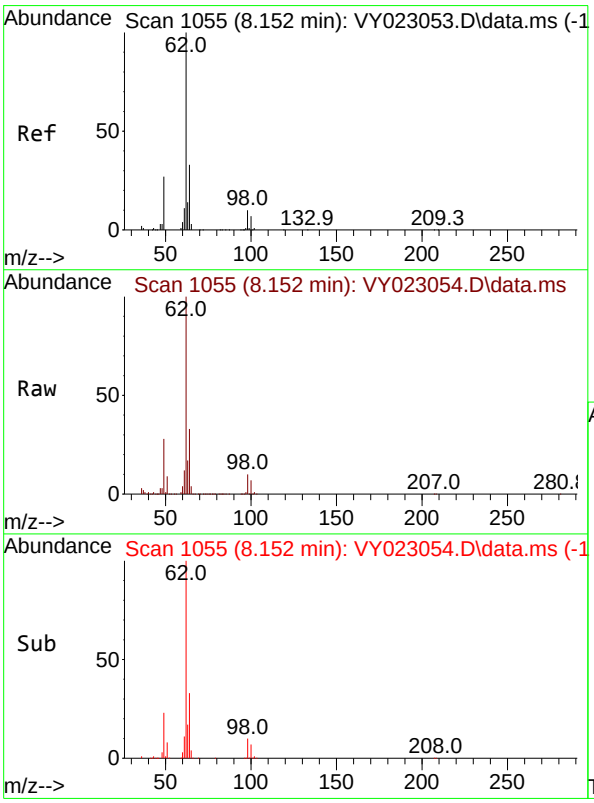
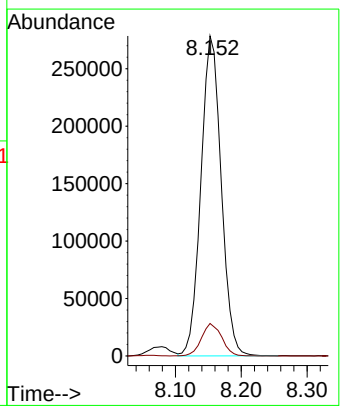
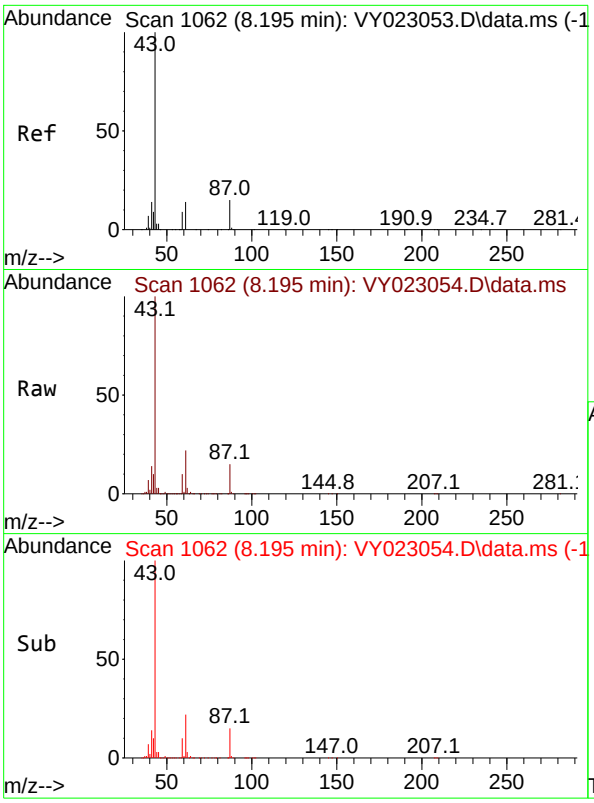


#42
1,2-Dichloroethane
Concen: 95.155 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 597215

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6

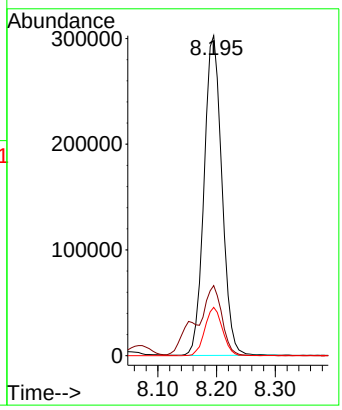




#43
Isopropyl Acetate
Concen: 95.780 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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 :
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ClientSampleId :
VSTDICC100

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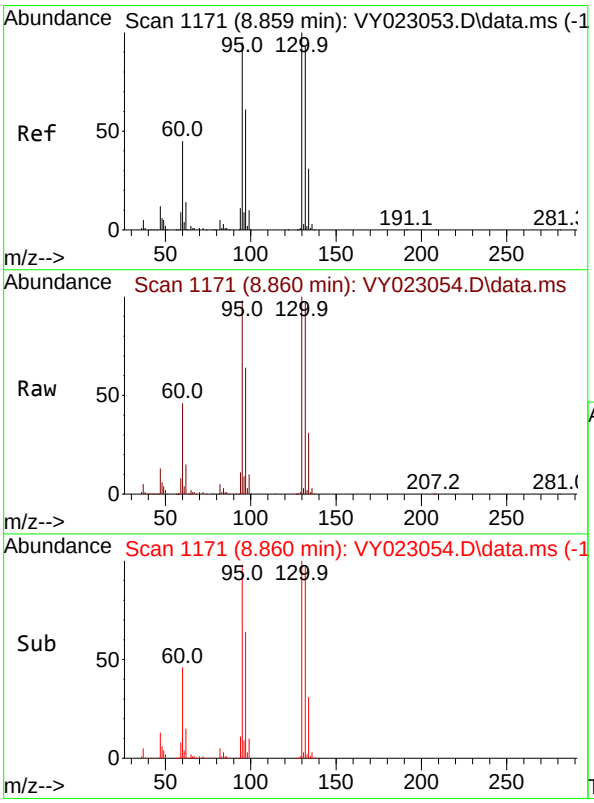
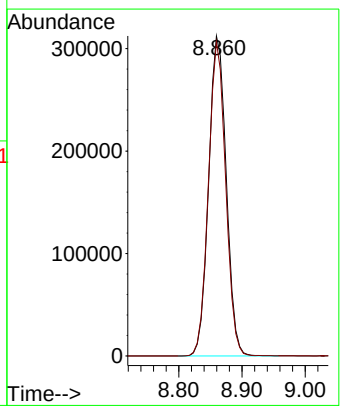
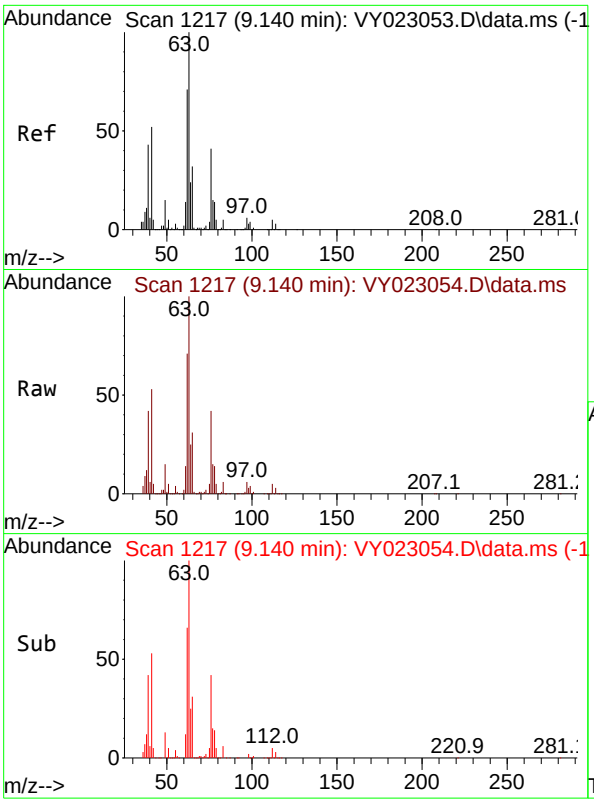


#44
Trichloroethene
Concen: 96.584 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:130 Resp: 602322

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	190.2

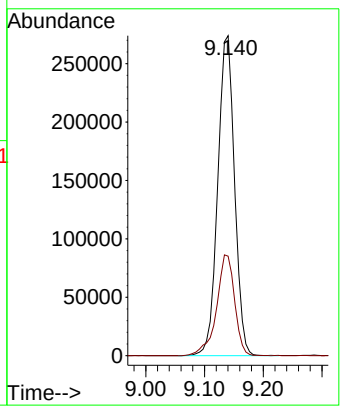




#45
1,2-Dichloropropane
Concen: 97.899 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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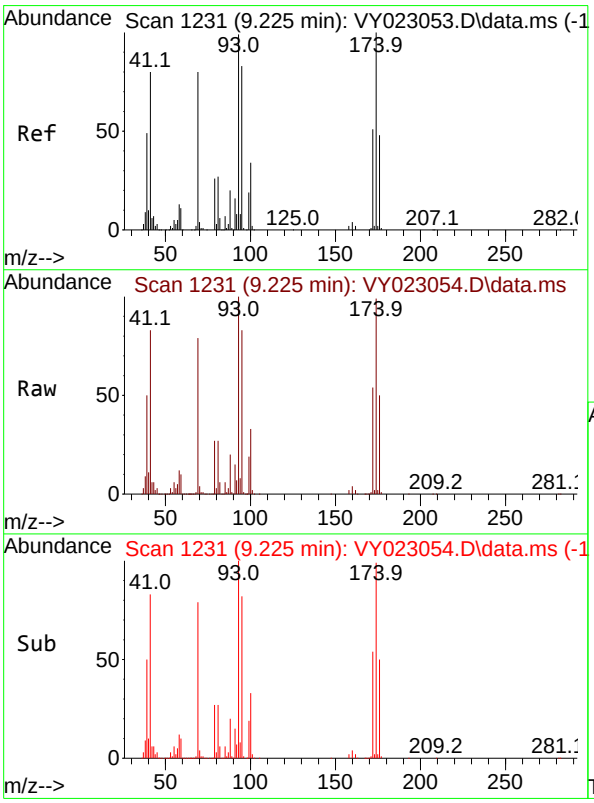
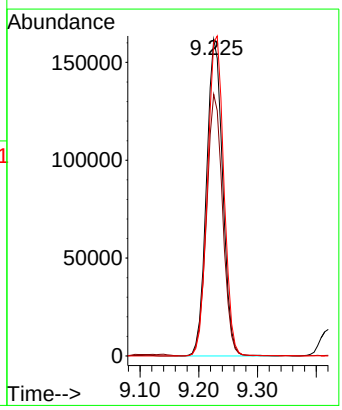
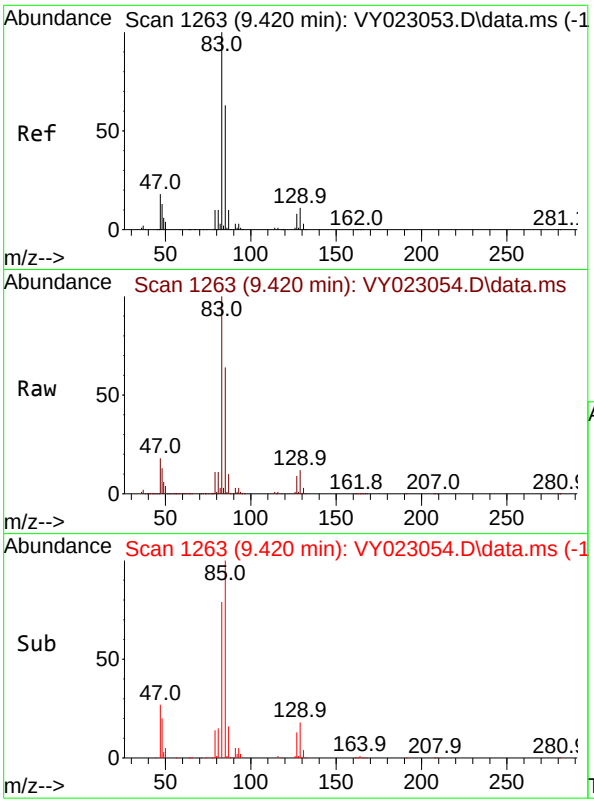


#46
Dibromomethane
Concen: 97.052 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

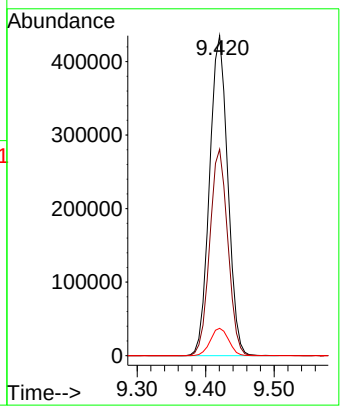




#47
Bromodichloromethane
Concen: 97.864 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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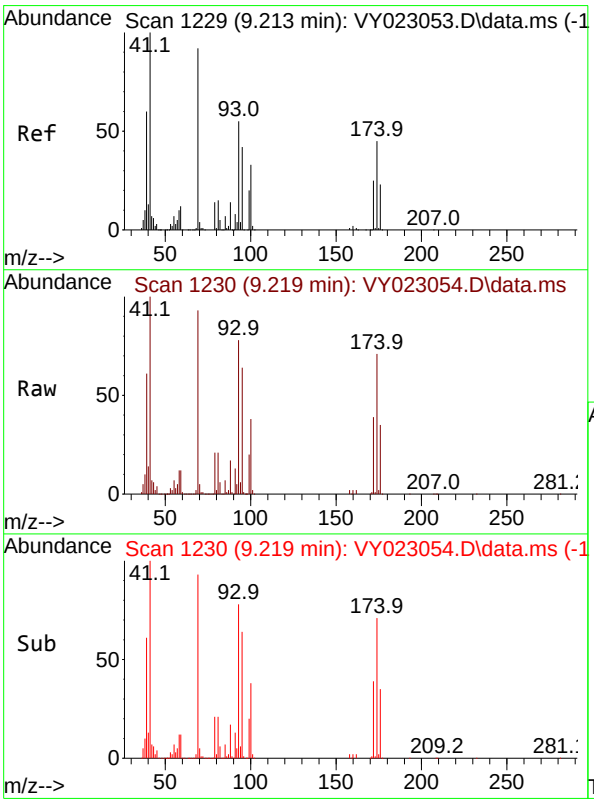
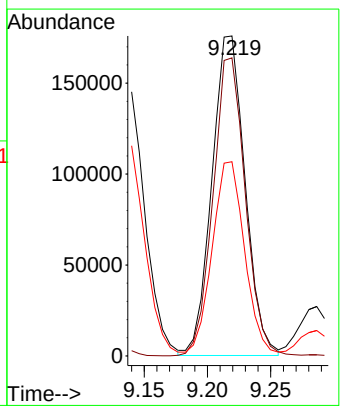
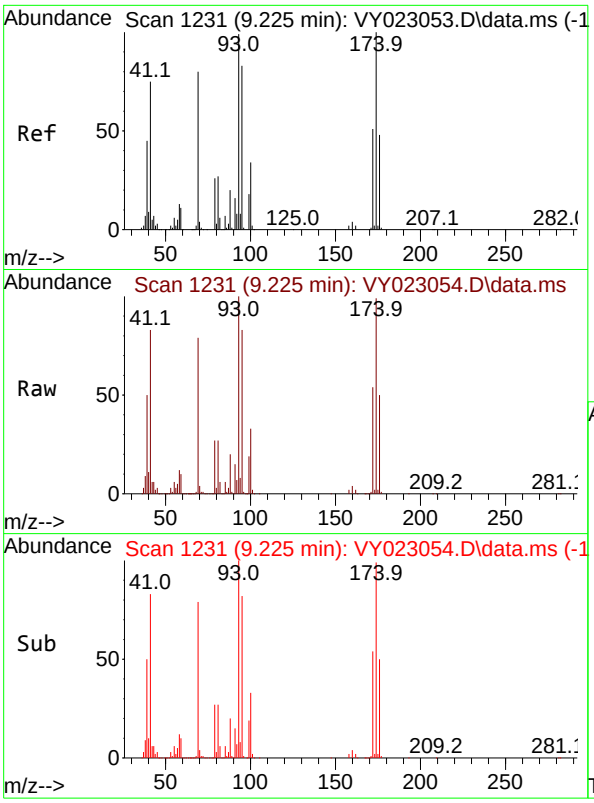


#48
Methyl methacrylate
Concen: 100.567 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

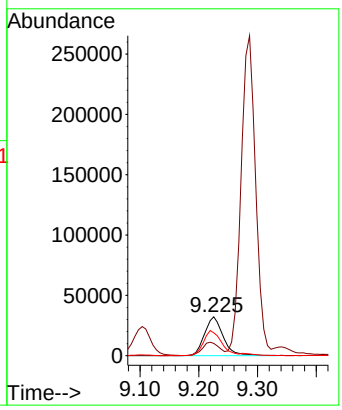




#49
1,4-Dioxane
Concen: 1908.039 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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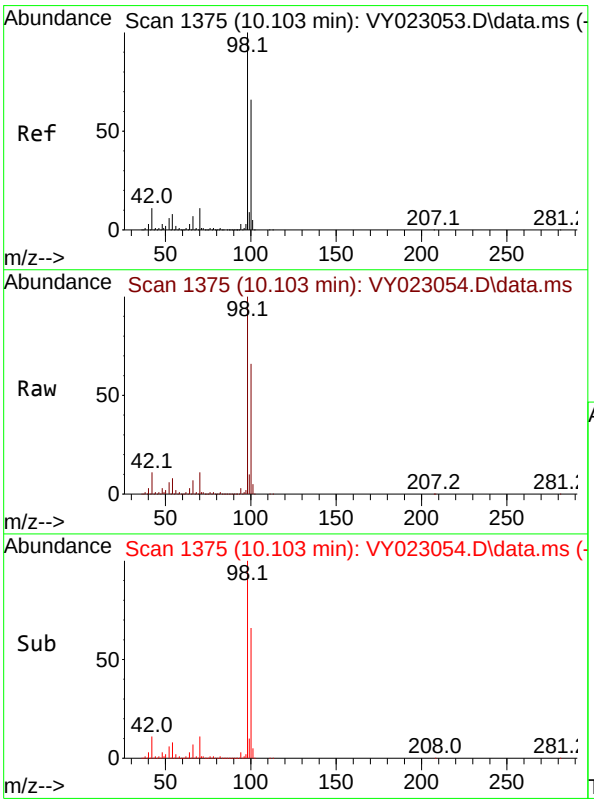
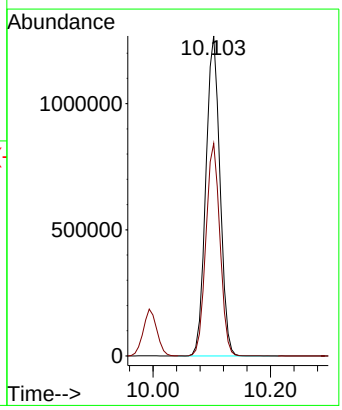
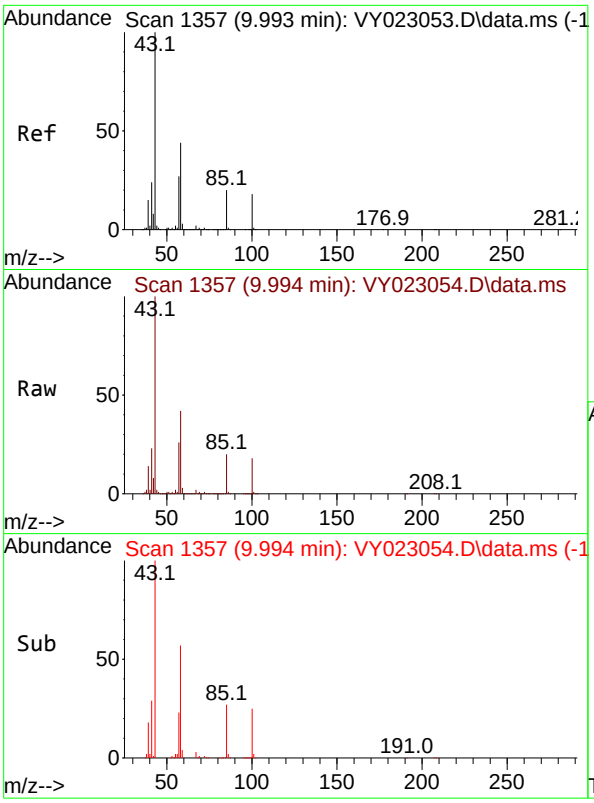


#50
Toluene-d8
Concen: 102.832 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 98 Resp: 2116445

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.3	78.5

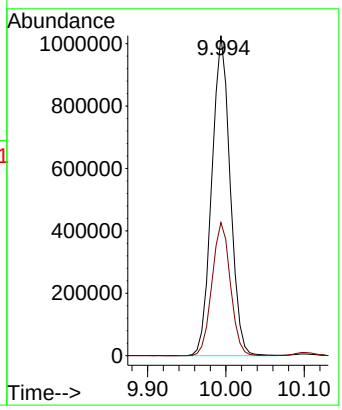




#51
4-Methyl-2-Pentanone
Concen: 486.924 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 166966

Ion	Ratio	Lower	Upper
43	100		
58	41.8	33.5	50.3



Instrument :
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ClientSampleId :
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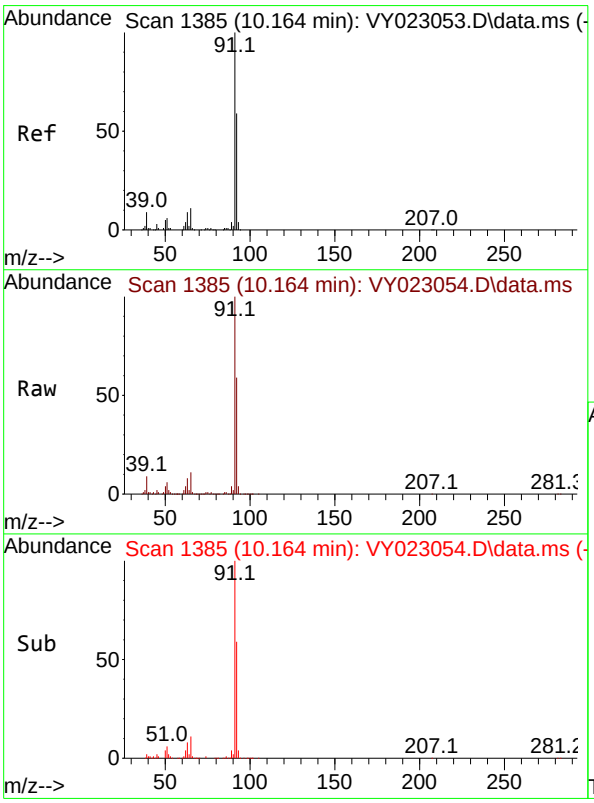
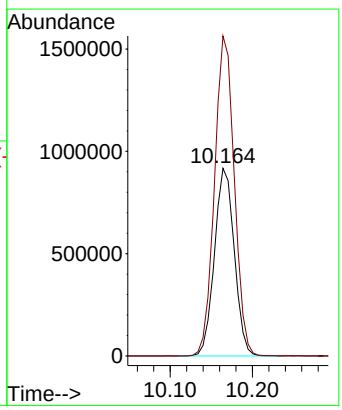
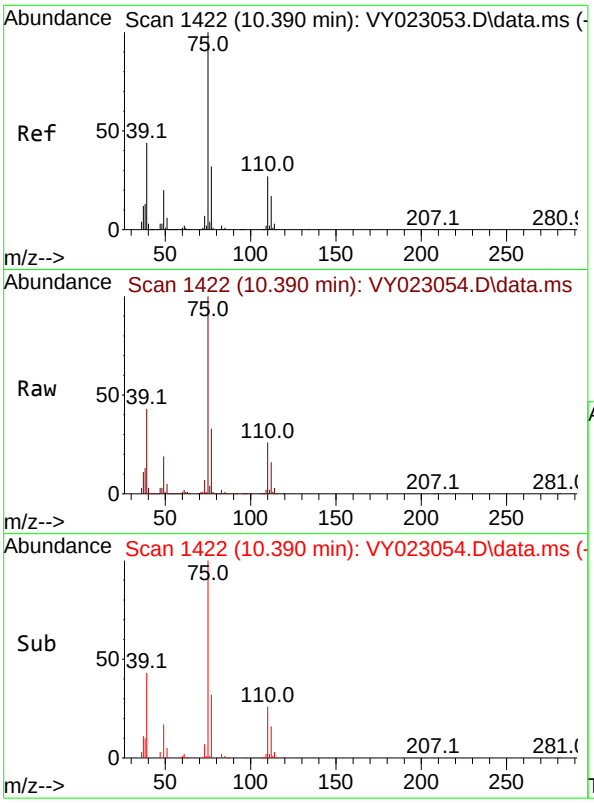


#52
Toluene
Concen: 100.288 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 92 Resp: 1537088

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6

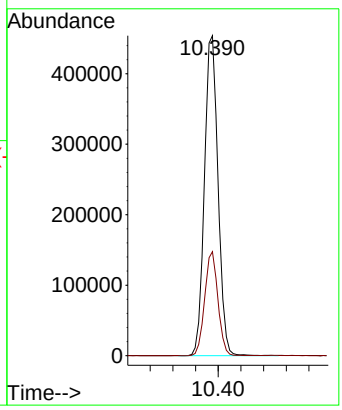




#53
t-1,3-Dichloropropene
Concen: 101.574 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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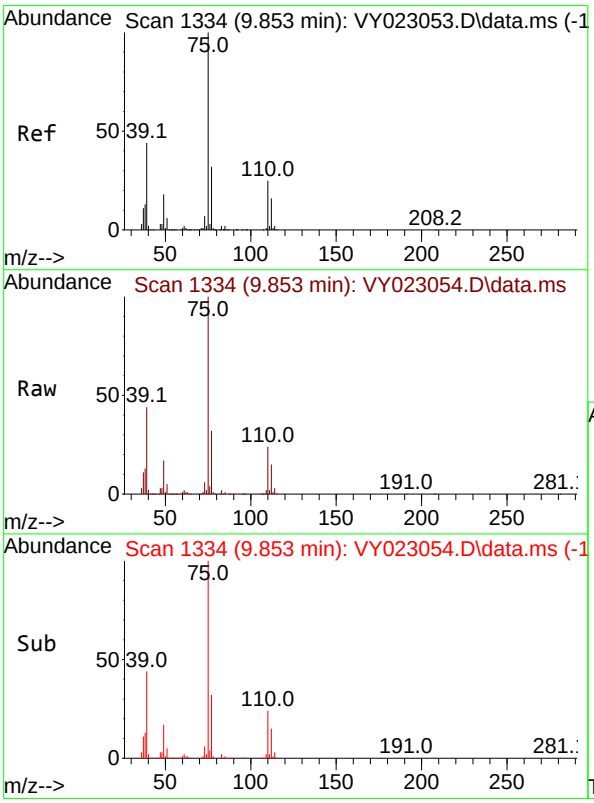
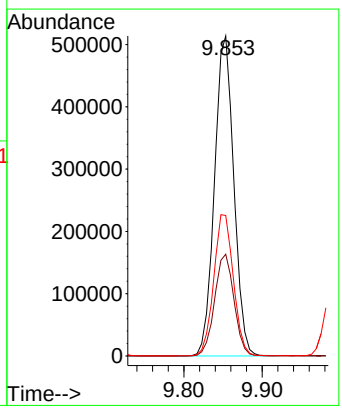
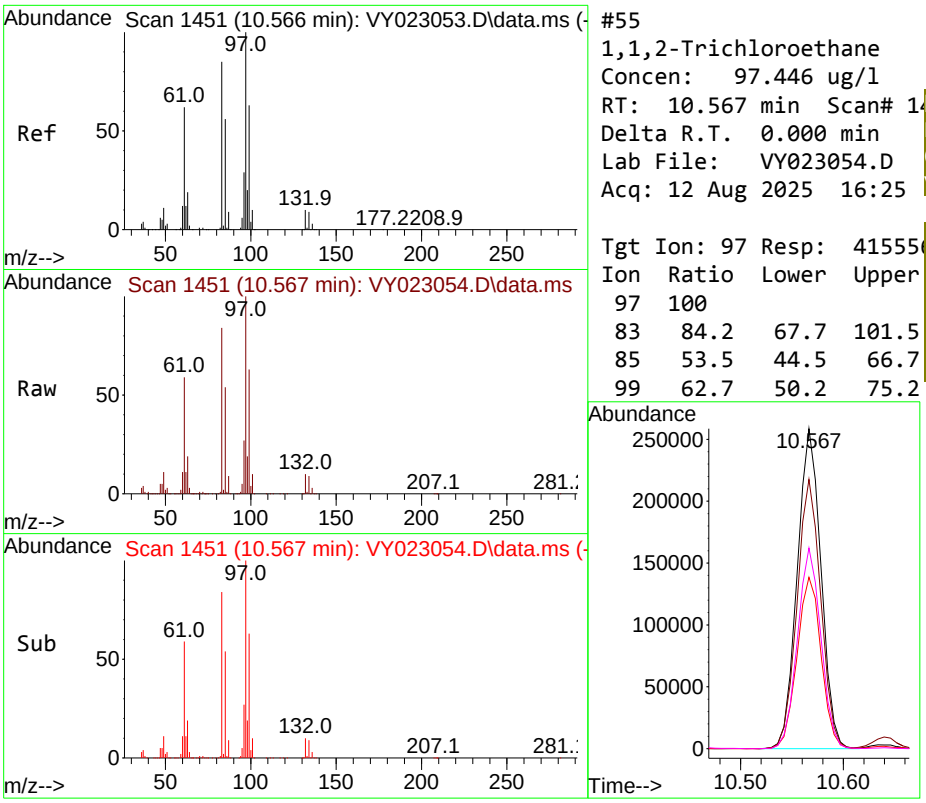


#54
cis-1,3-Dichloropropene
Concen: 100.281 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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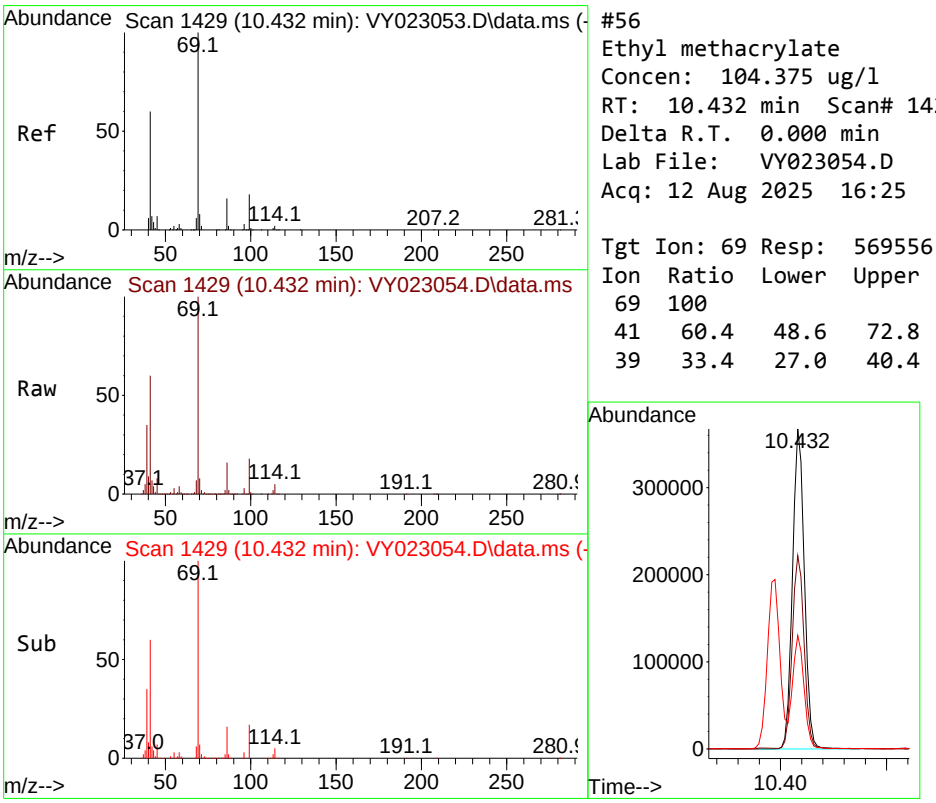
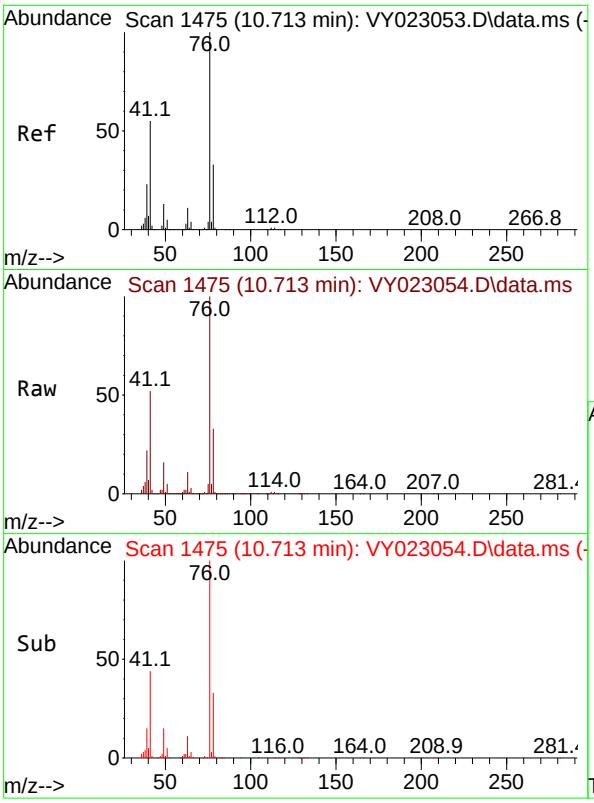
Supervised By :Semsettin Yesilyurt 08/14/2025



#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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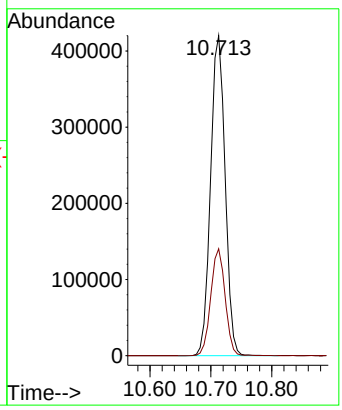
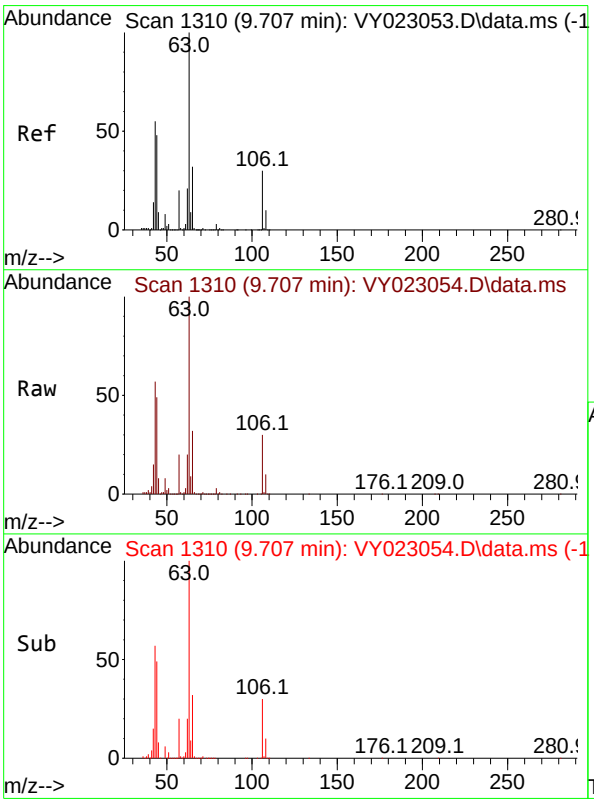
Supervised By :Semsettin Yesilyurt 08/14/2025

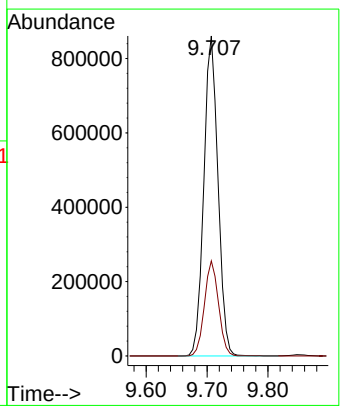


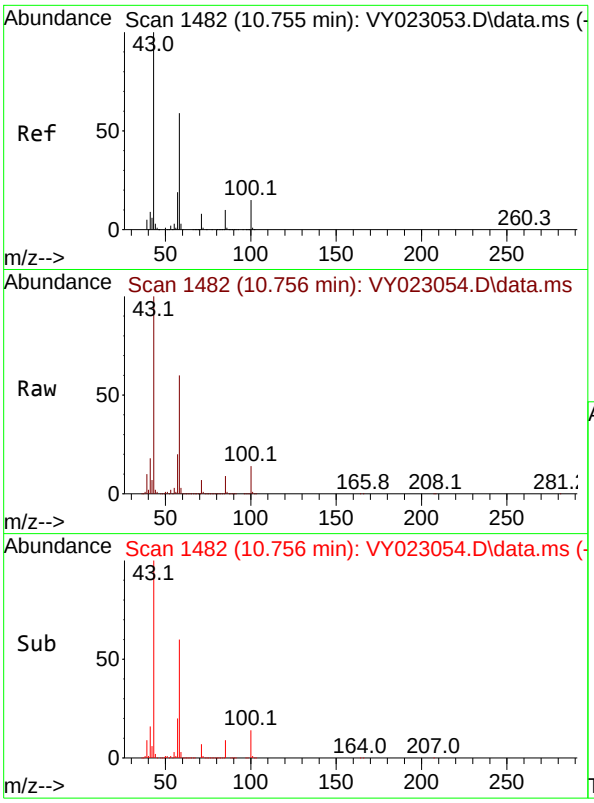


#58
2-Chloroethyl Vinyl ether
Concen: 539.957 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1389847

Ion	Ratio	Lower	Upper
63	100		
106	29.5	23.2	34.8

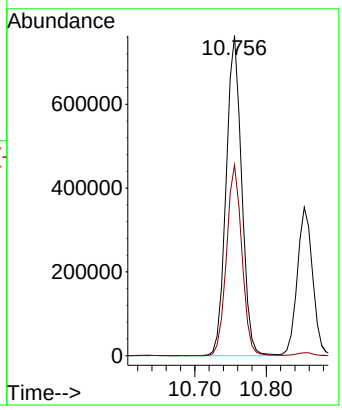




#59
2-Hexanone
Concen: 492.950 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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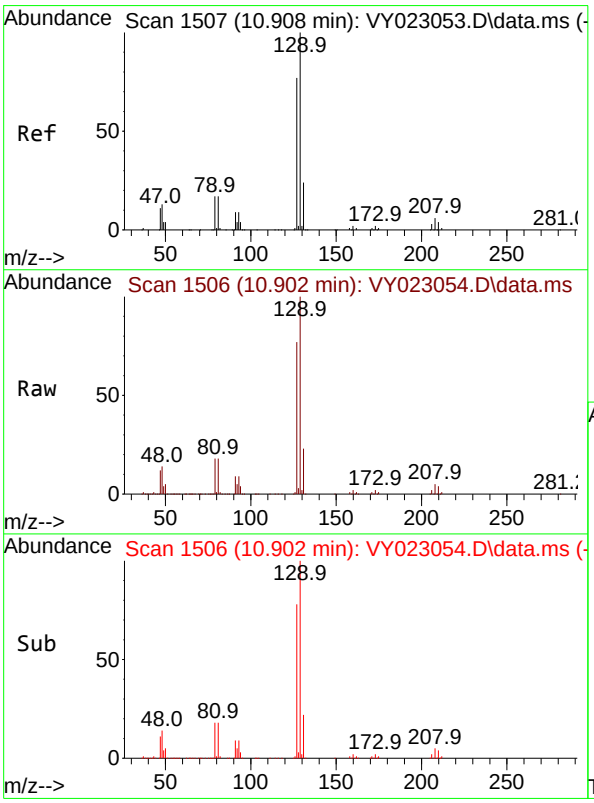
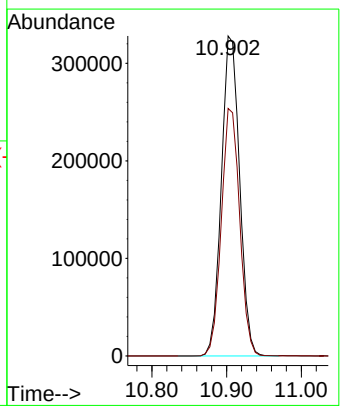
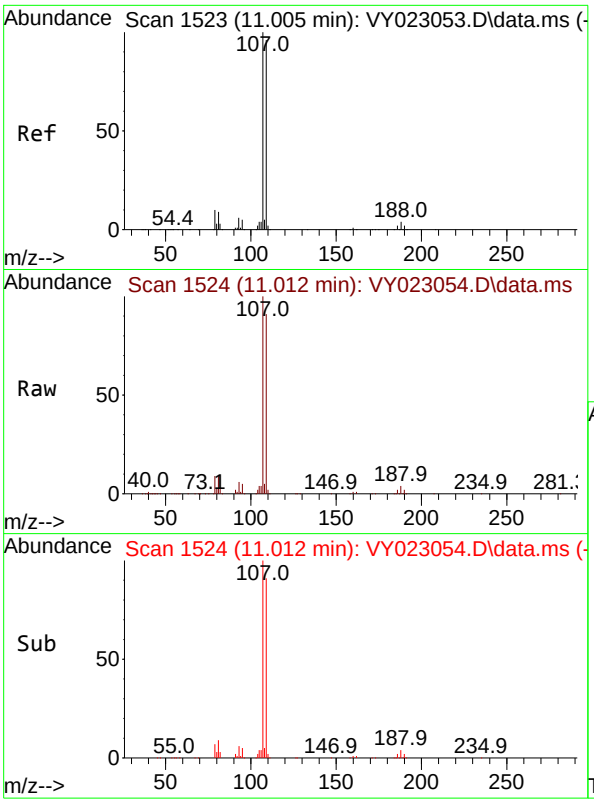


#60
Dibromochloromethane
Concen: 99.024 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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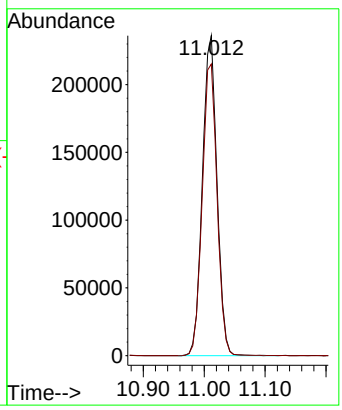
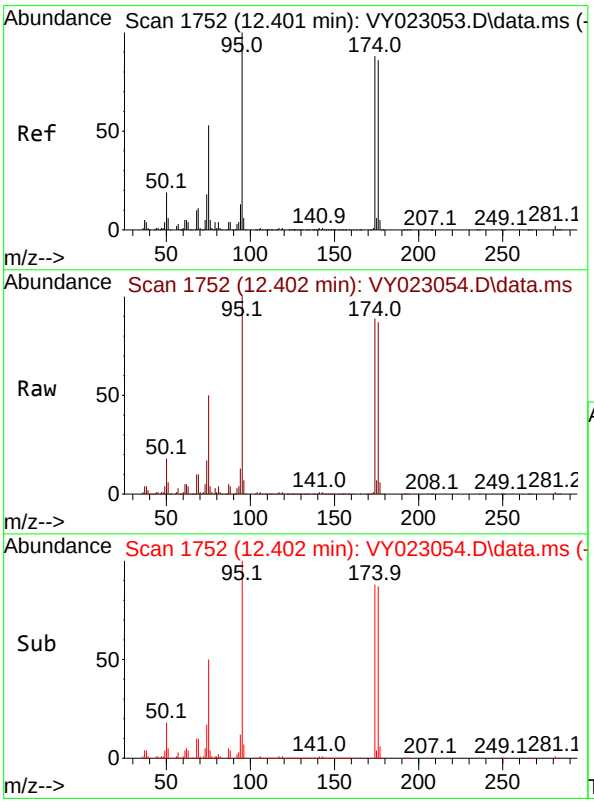
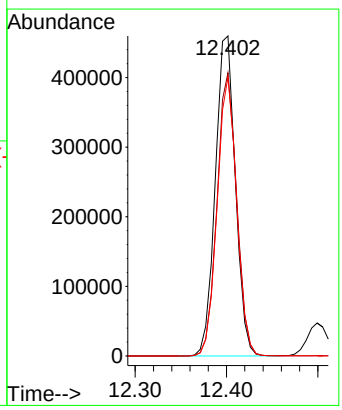


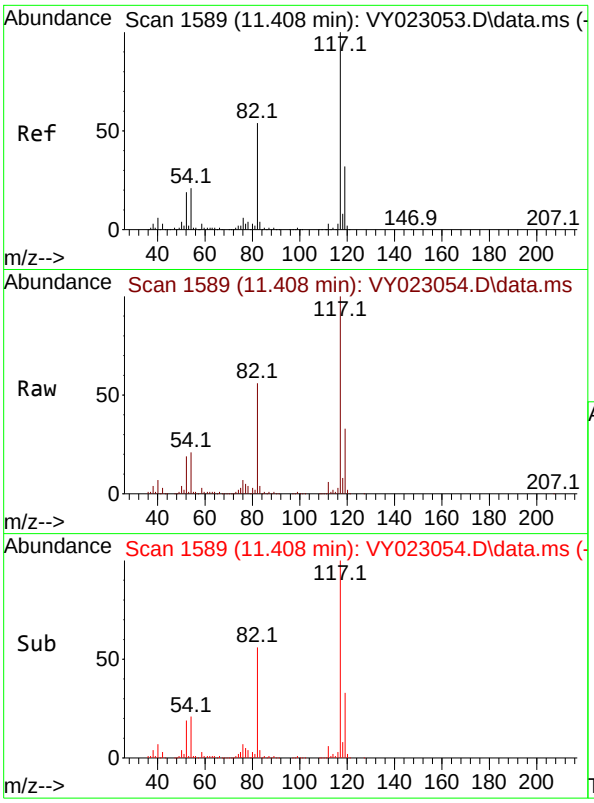


#62
4-Bromofluorobenzene
Concen: 106.147 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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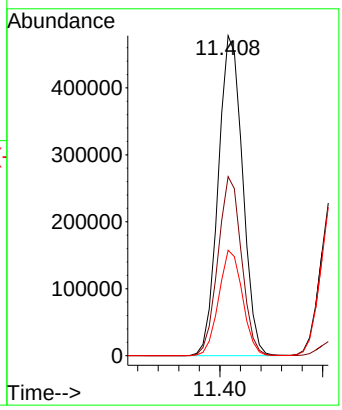
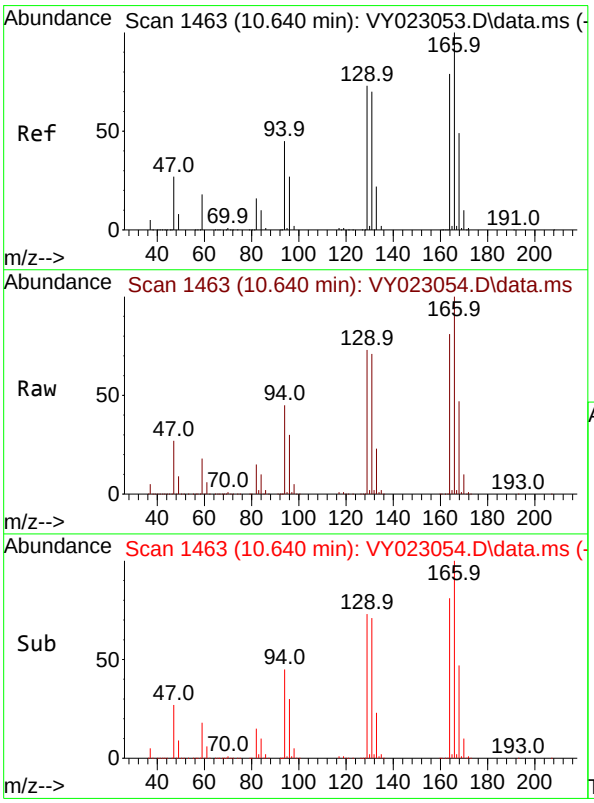
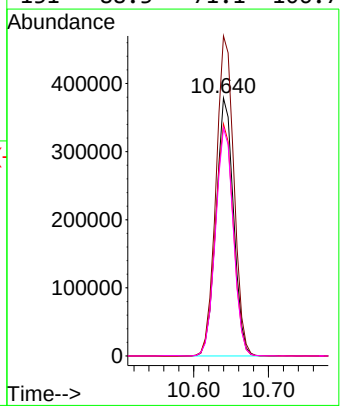


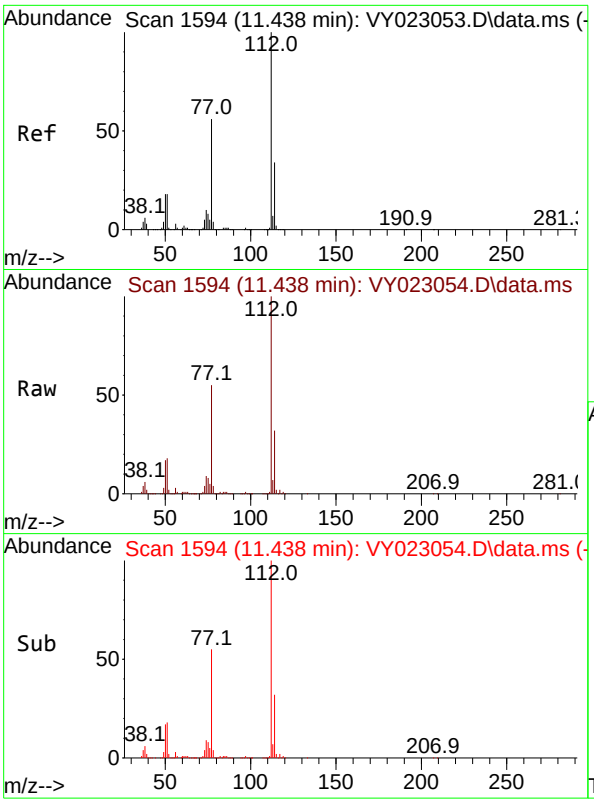


#64
Tetrachloroethene
Concen: 87.931 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

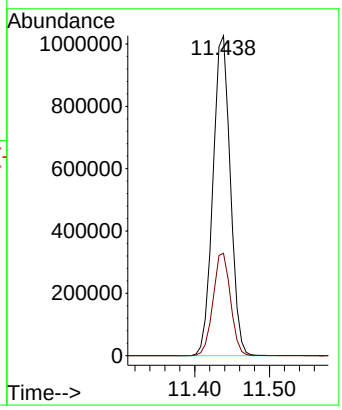




#65
Chlorobenzene
Concen: 98.004 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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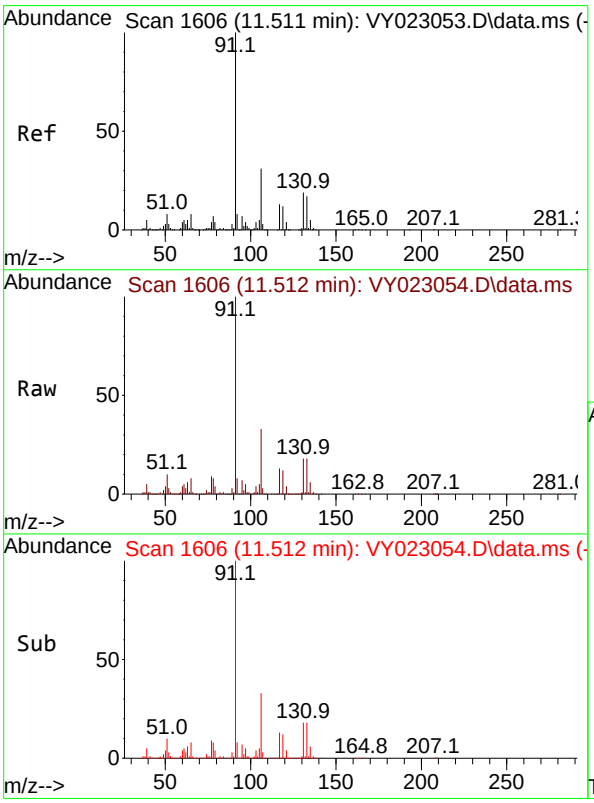
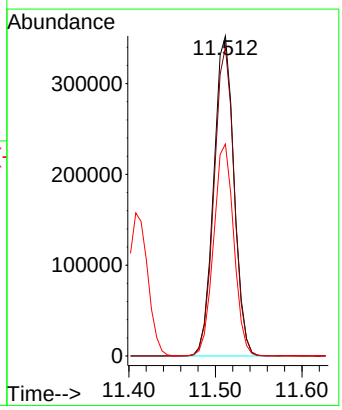
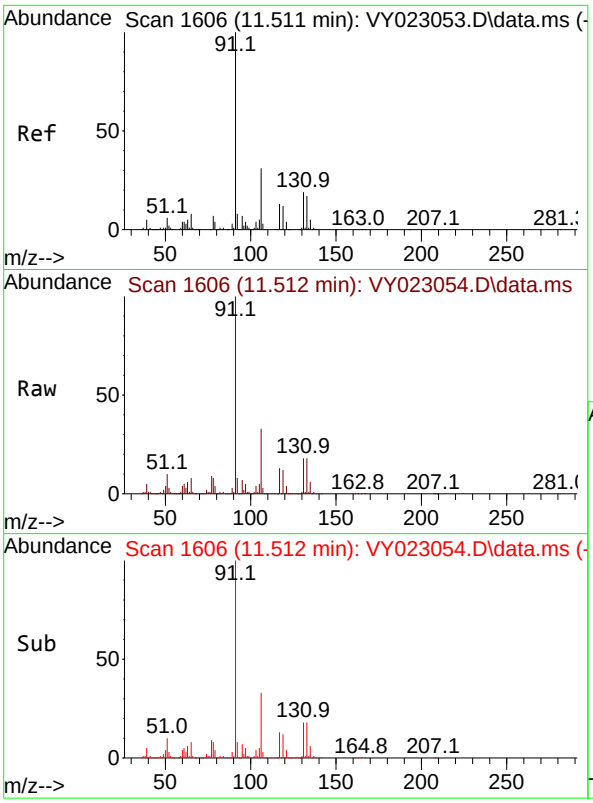


#66
1,1,1,2-Tetrachloroethane
Concen: 99.810 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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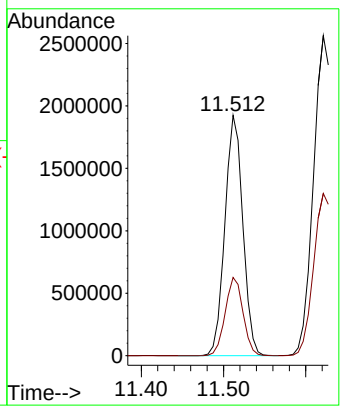
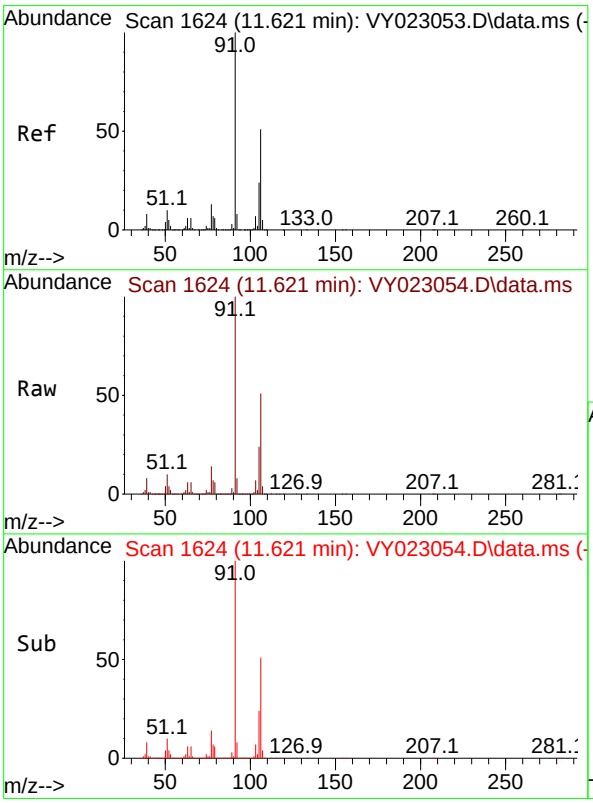
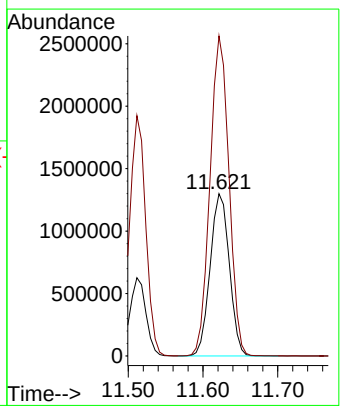


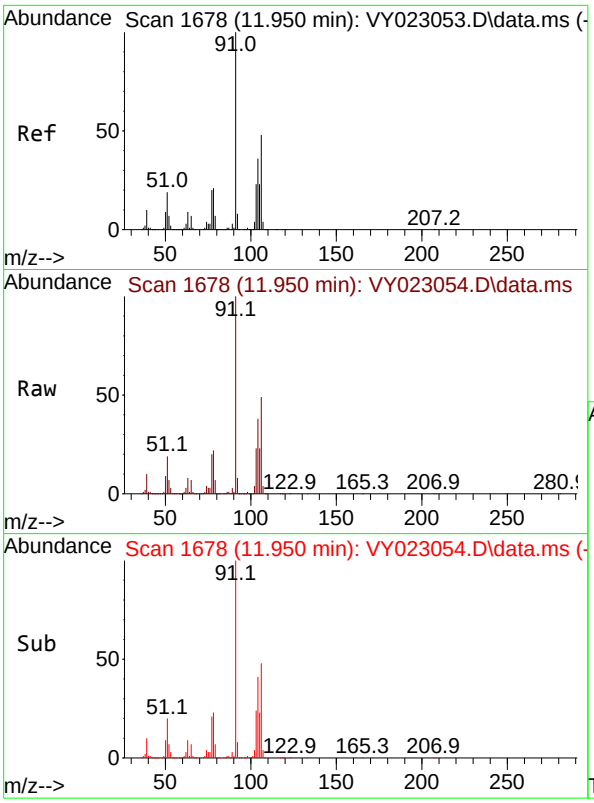


#68
m/p-Xylenes
Concen: 203.363 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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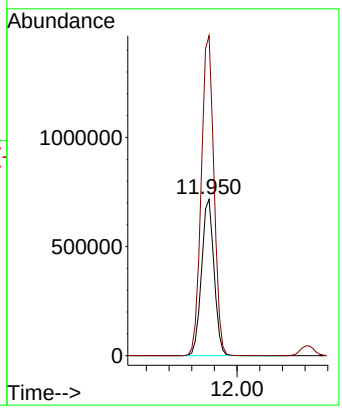
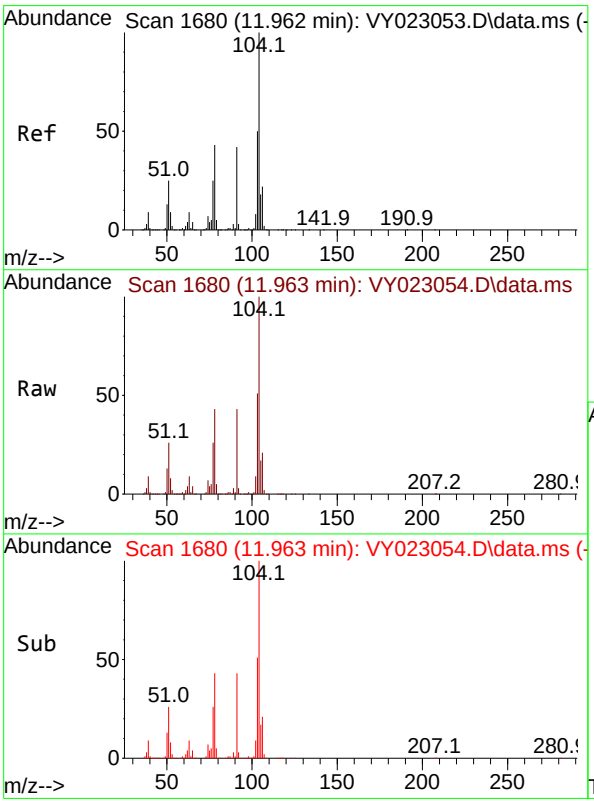
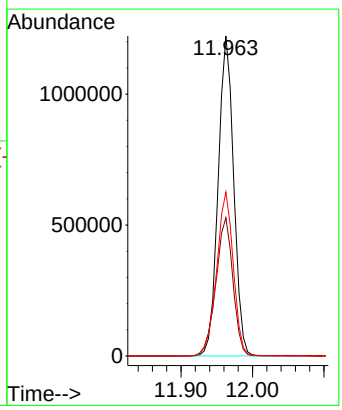


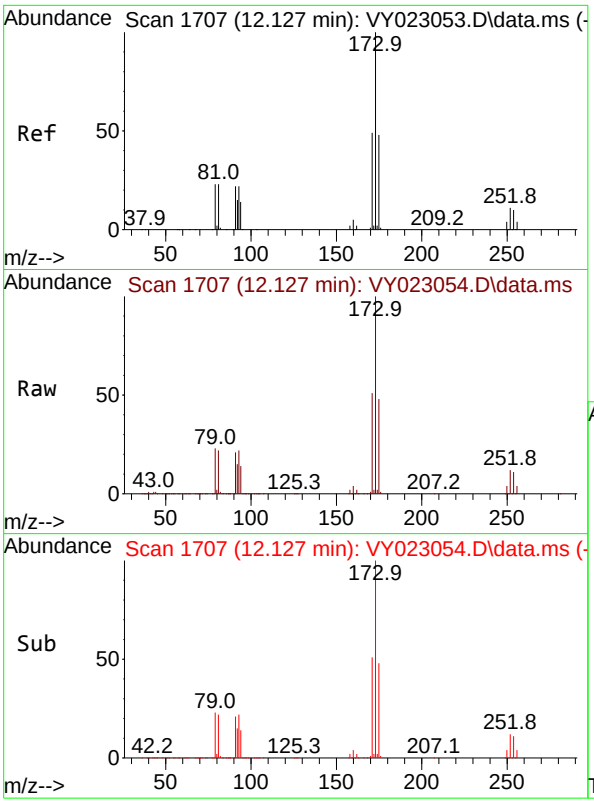


#70
Styrene
Concen: 105.953 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

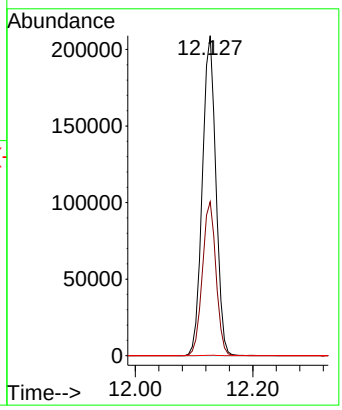




#71
Bromoform
Concen: 99.786 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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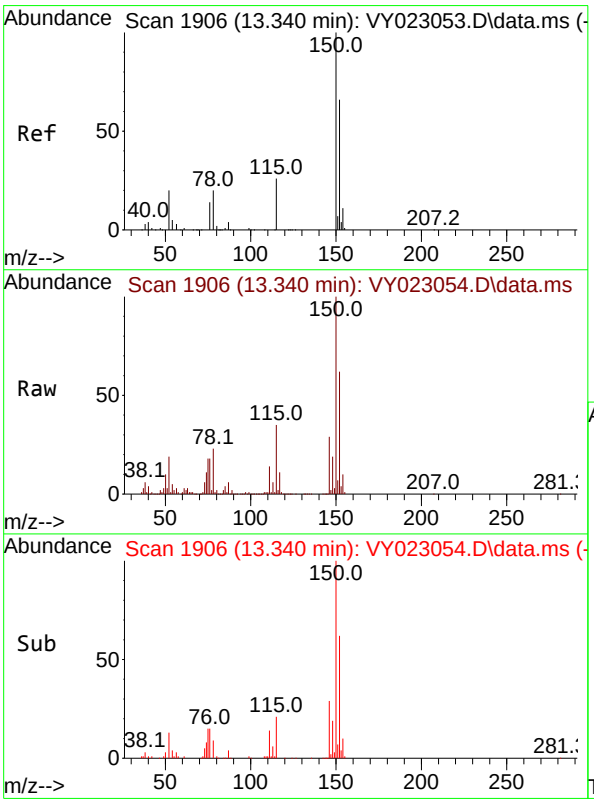
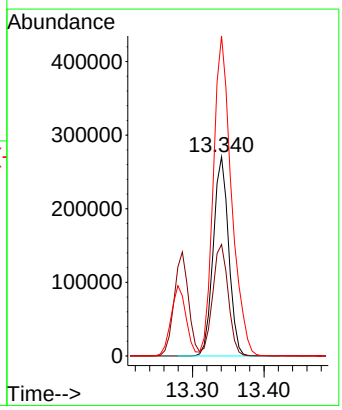
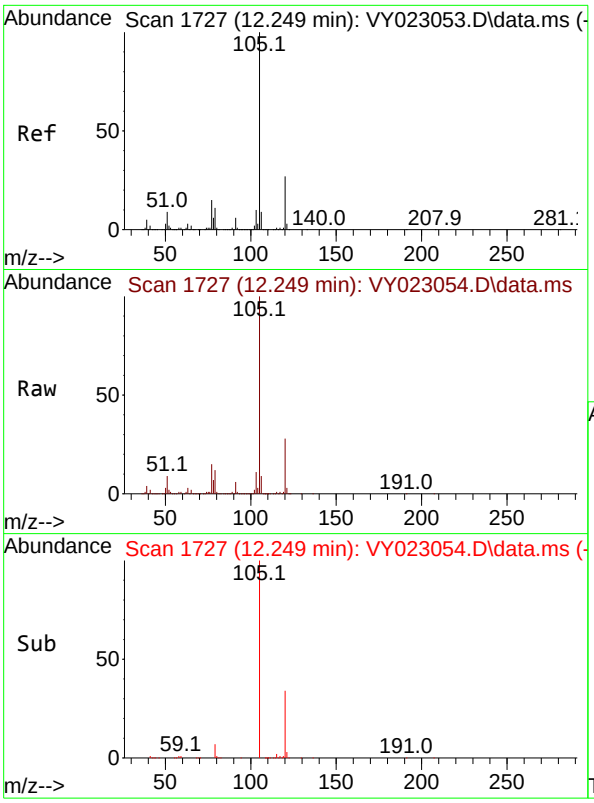


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

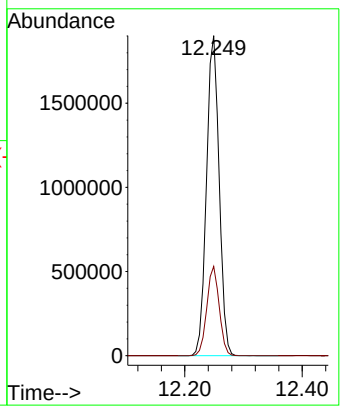




#73
Isopropylbenzene
Concen: 99.567 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 283999

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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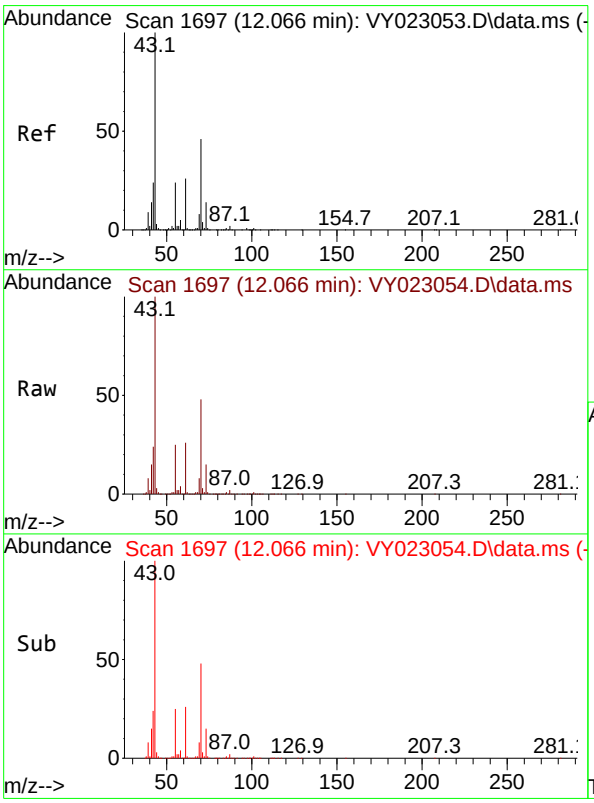
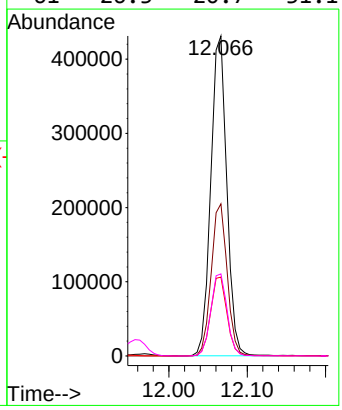
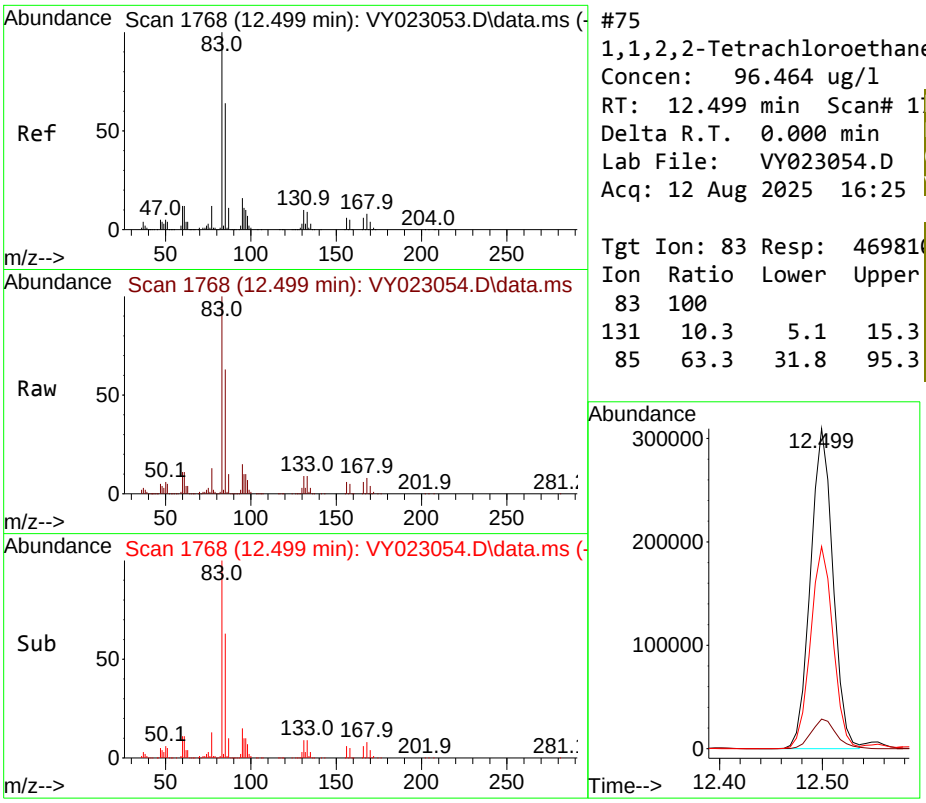


#74
N-amyl acetate
Concen: 100.955 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

Manual Integrations
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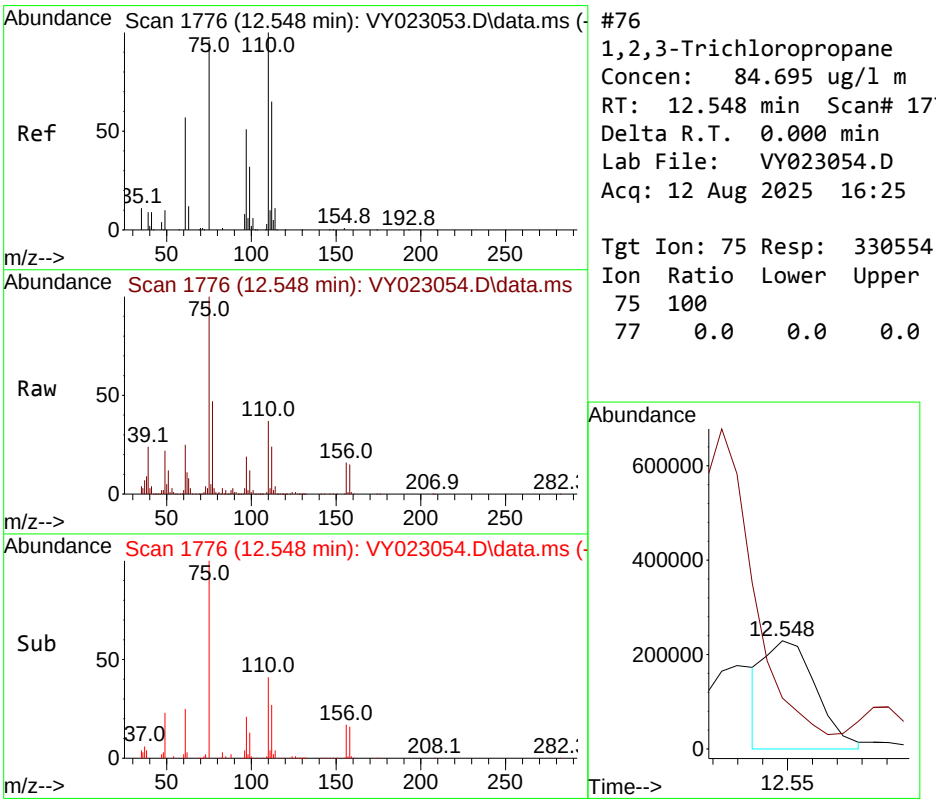
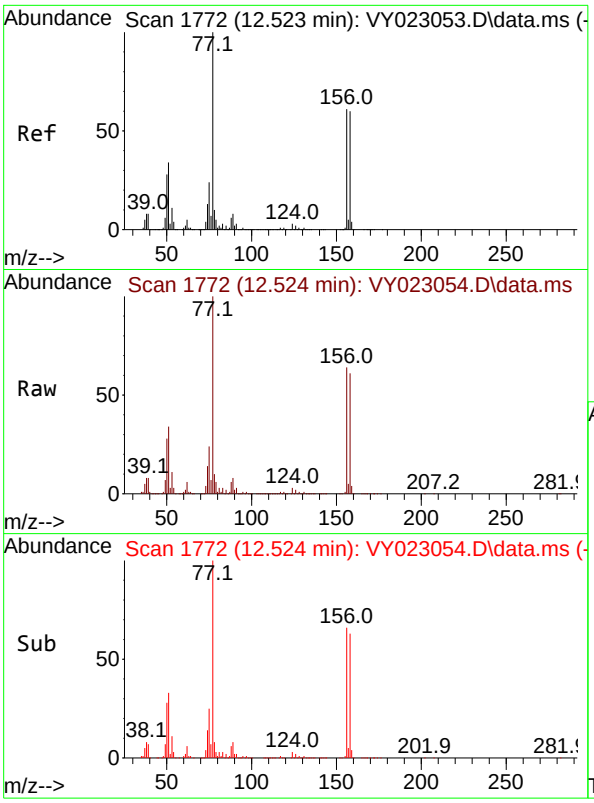
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#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

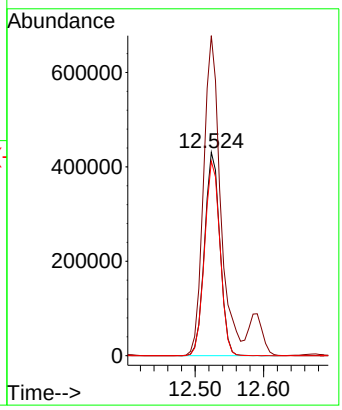
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



#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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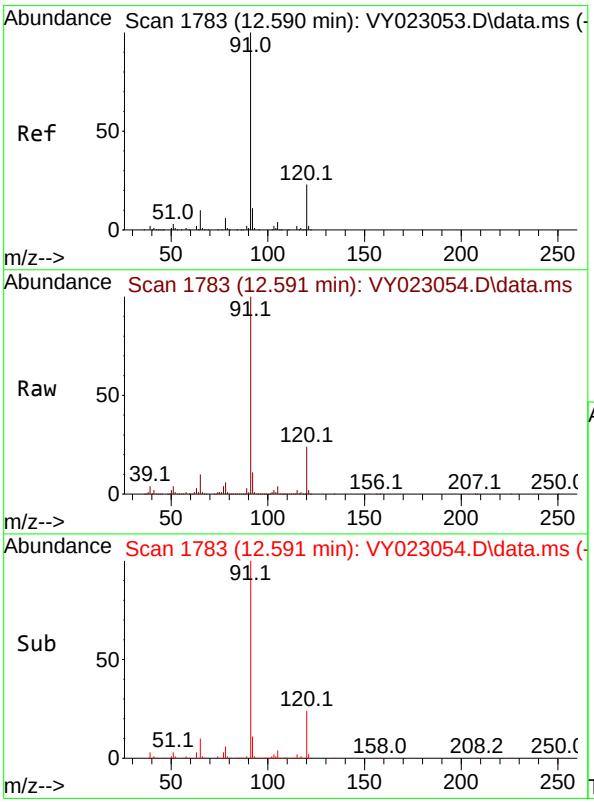
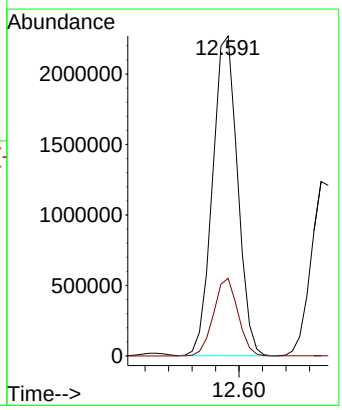
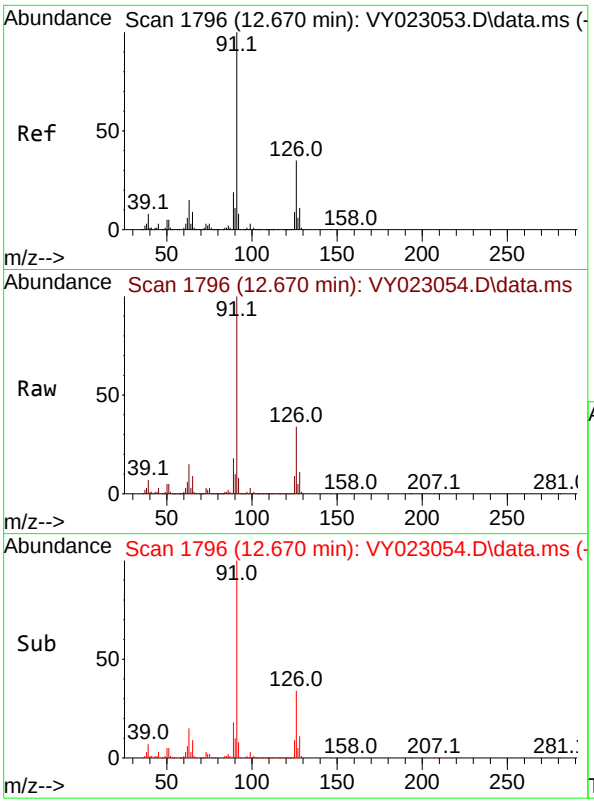


#78
n-propylbenzene
Concen: 98.963 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 3360679

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.5

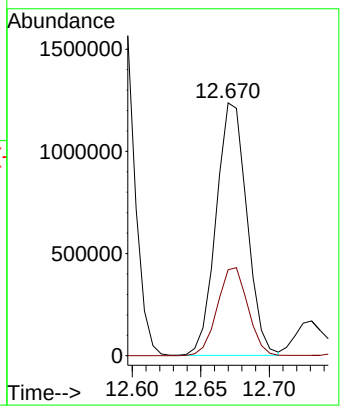




#79
2-Chlorotoluene
Concen: 99.268 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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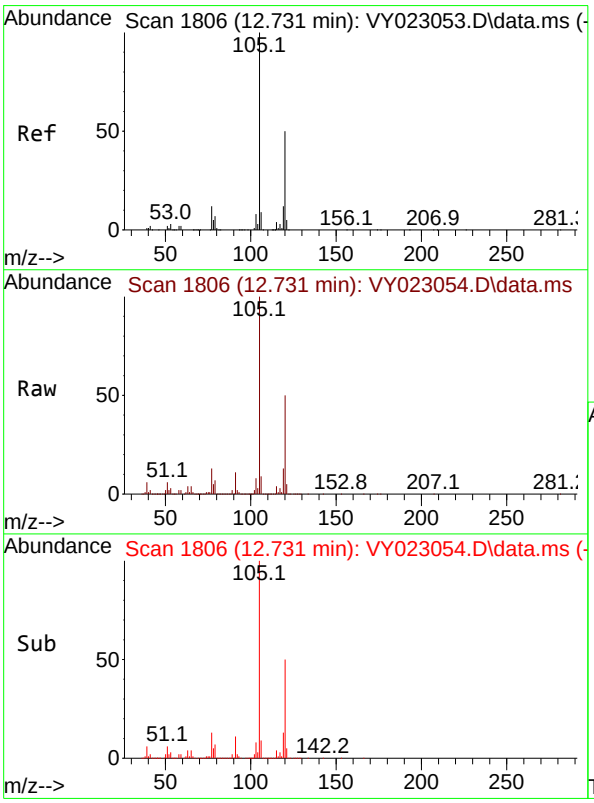
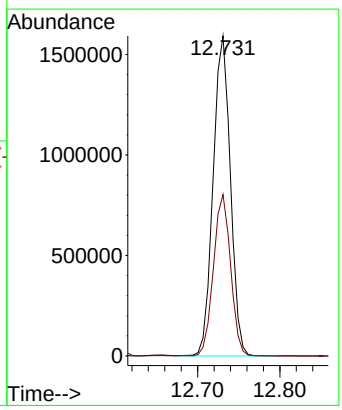
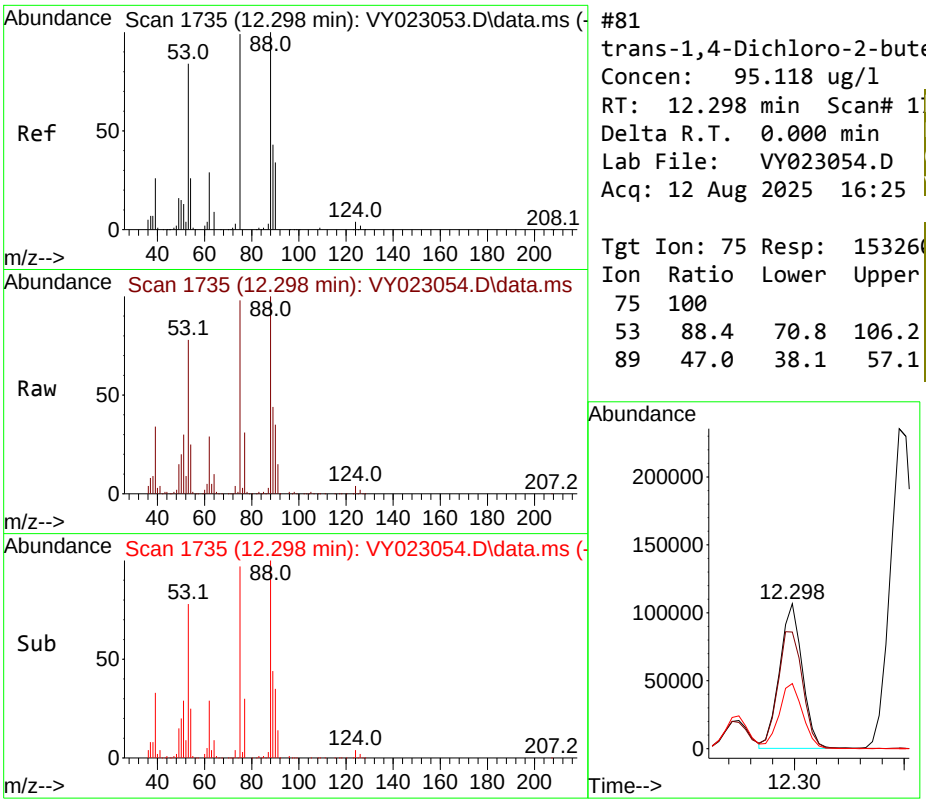


#80
1,3,5-Trimethylbenzene
Concen: 100.707 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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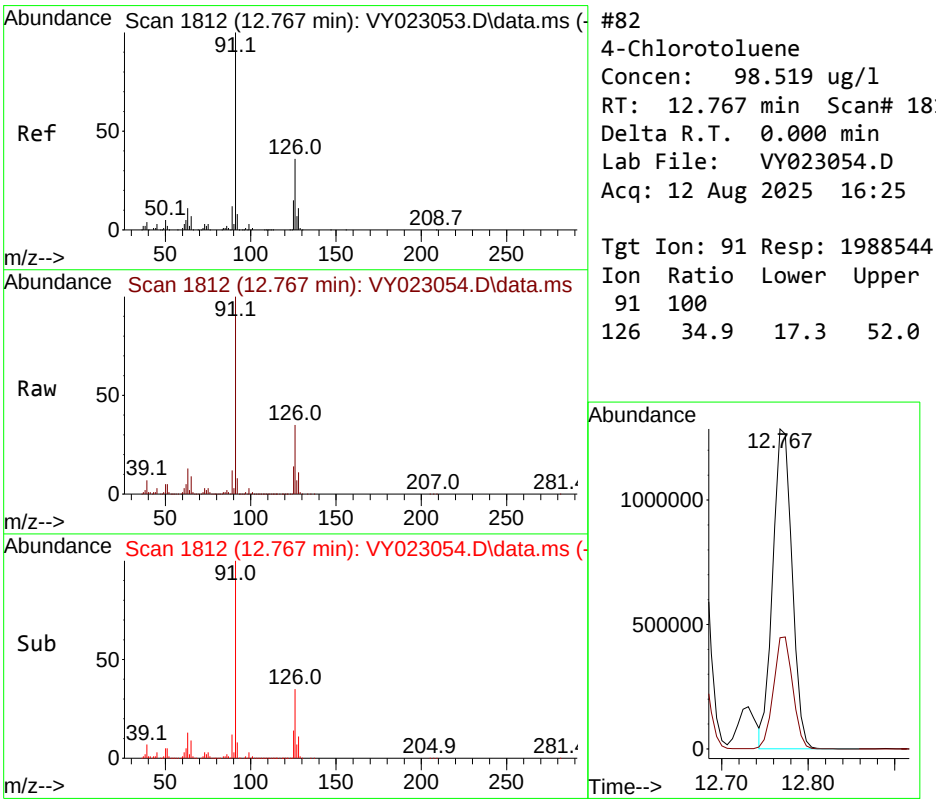
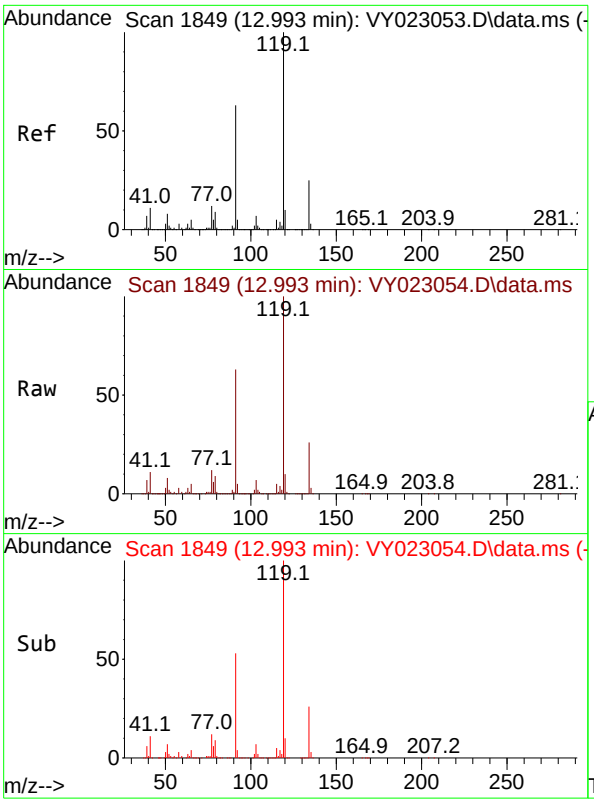


#82
4-Chlorotoluene
Concen: 98.519 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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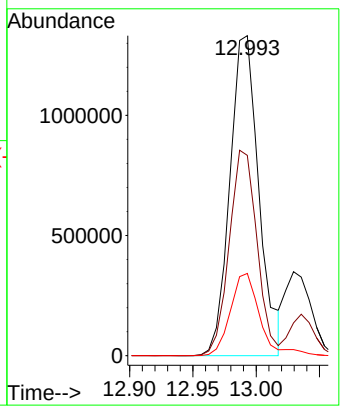
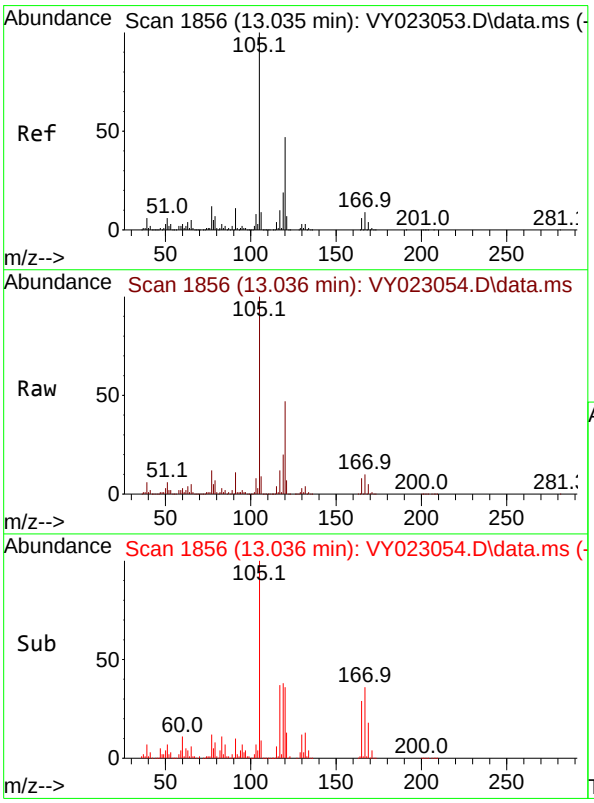
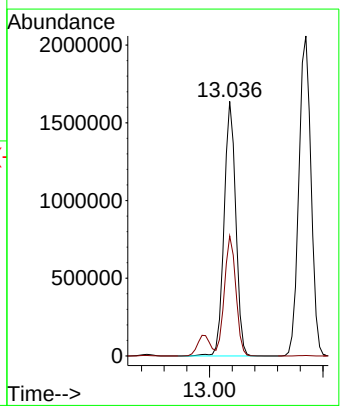


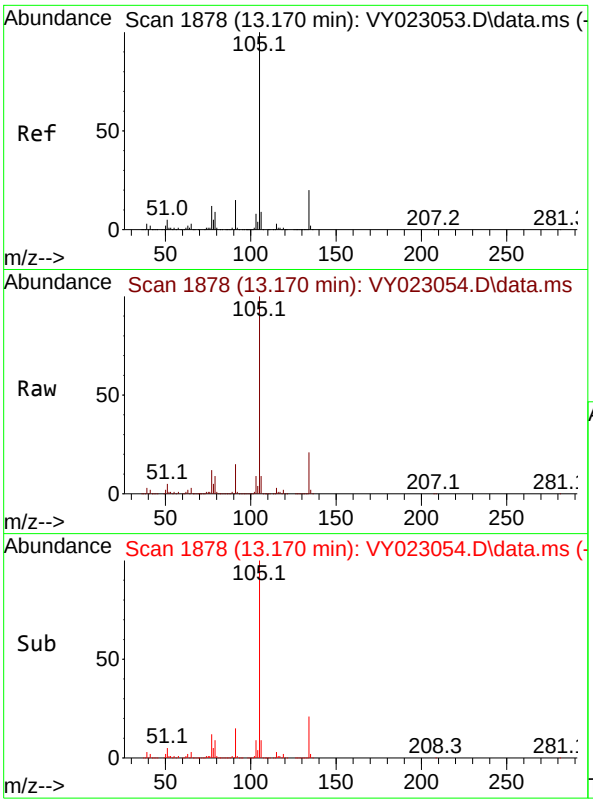


#84
1,2,4-Trimethylbenzene
Concen: 101.946 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2339432

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0

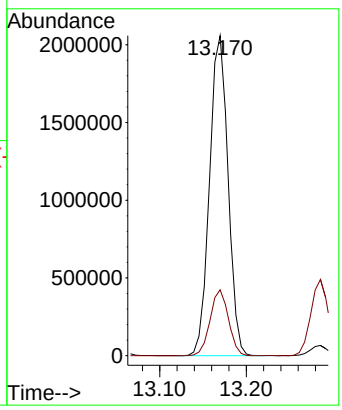




#85
sec-Butylbenzene
Concen: 99.932 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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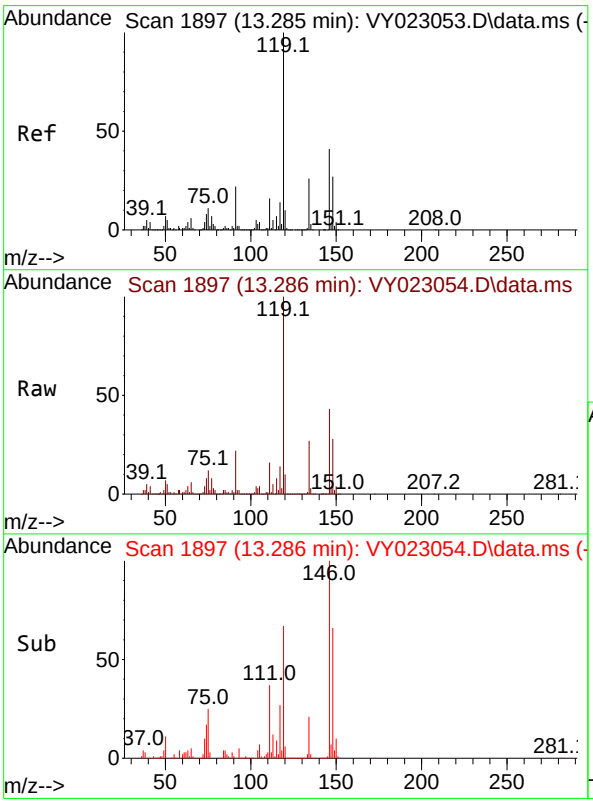
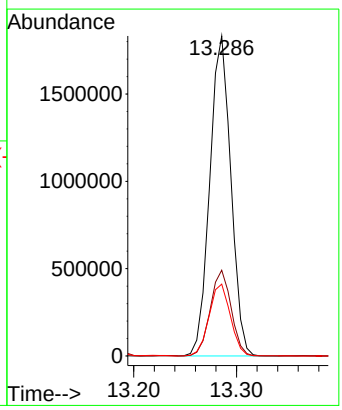
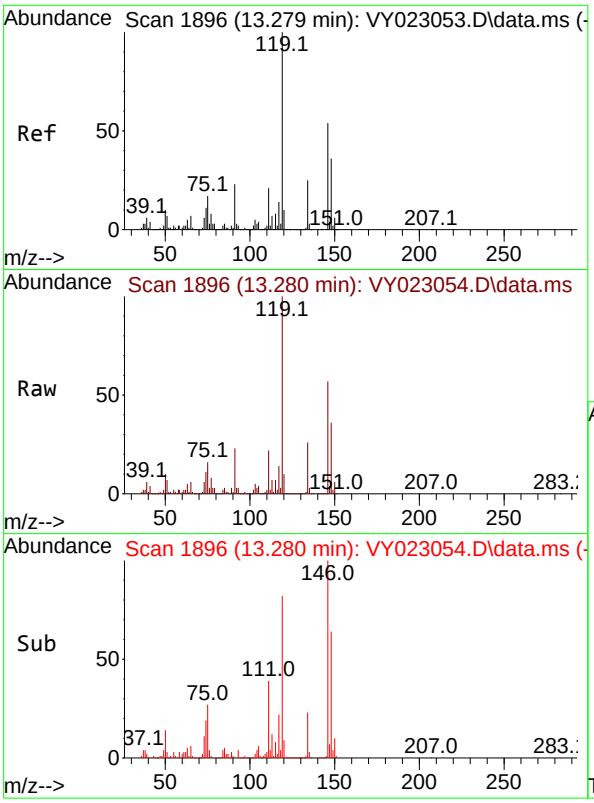


#86
p-Isopropyltoluene
Concen: 102.846 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

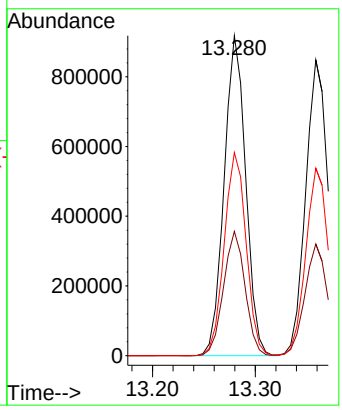




#87
1,3-Dichlorobenzene
Concen: 99.748 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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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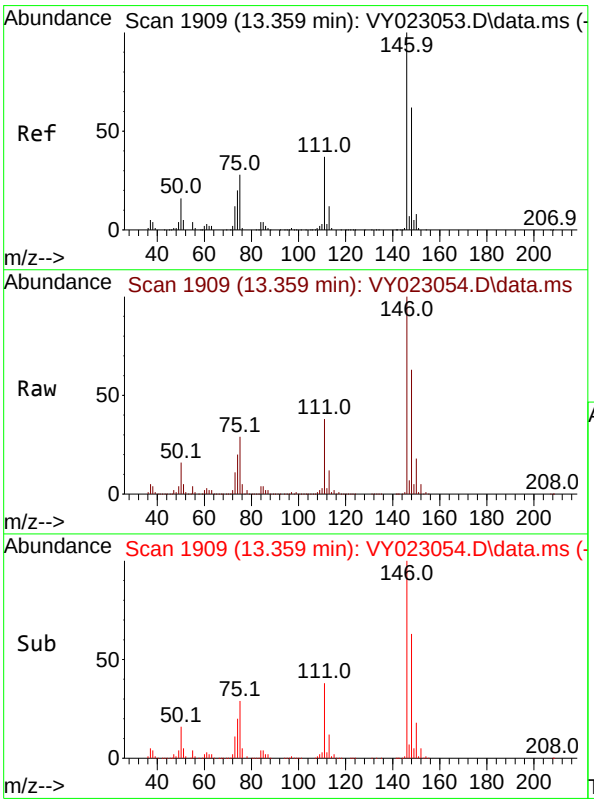
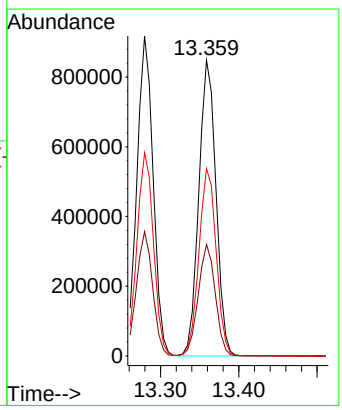
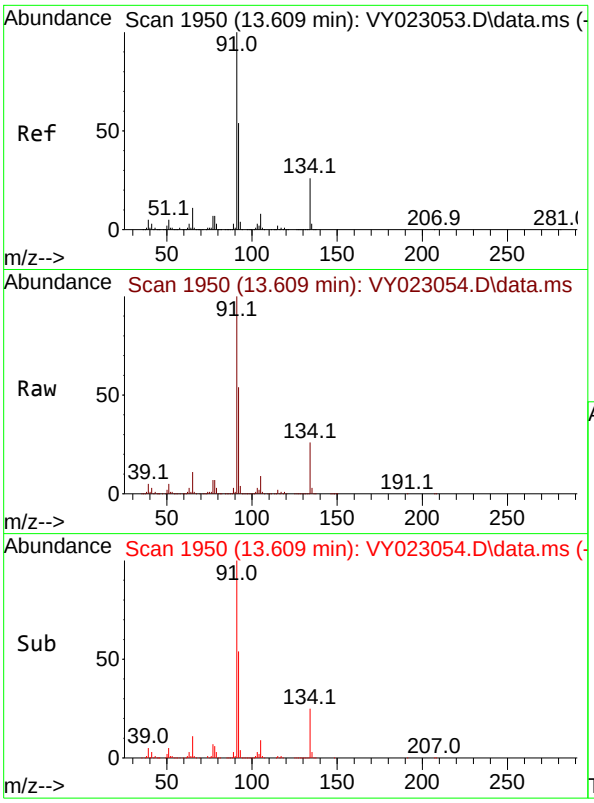


#88
1,4-Dichlorobenzene
Concen: 96.970 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

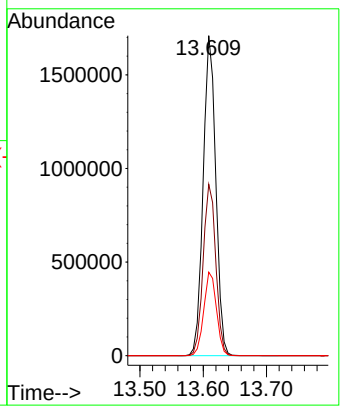




#89
n-Butylbenzene
Concen: 101.675 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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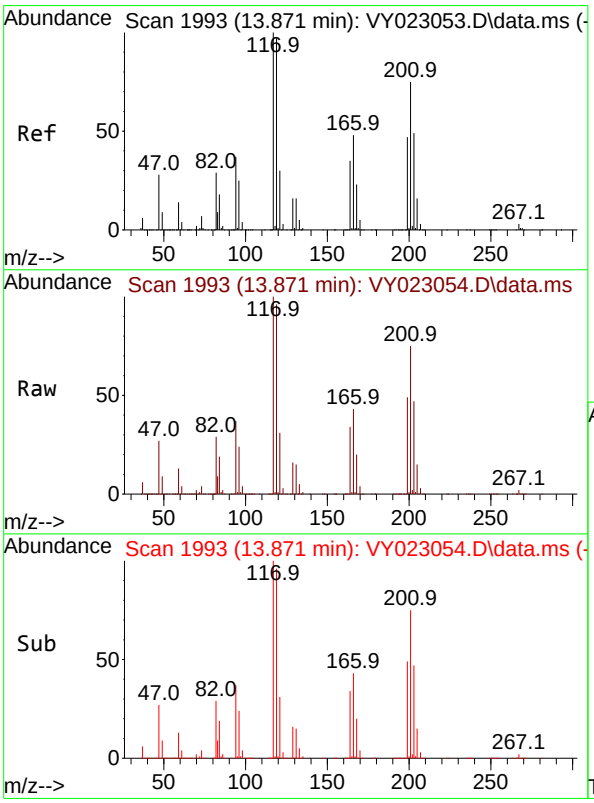
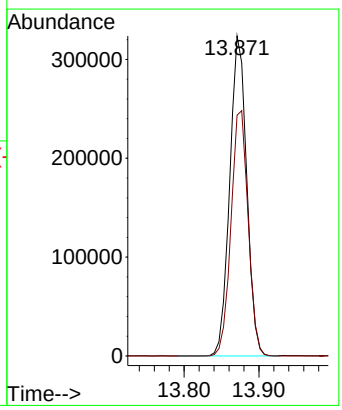
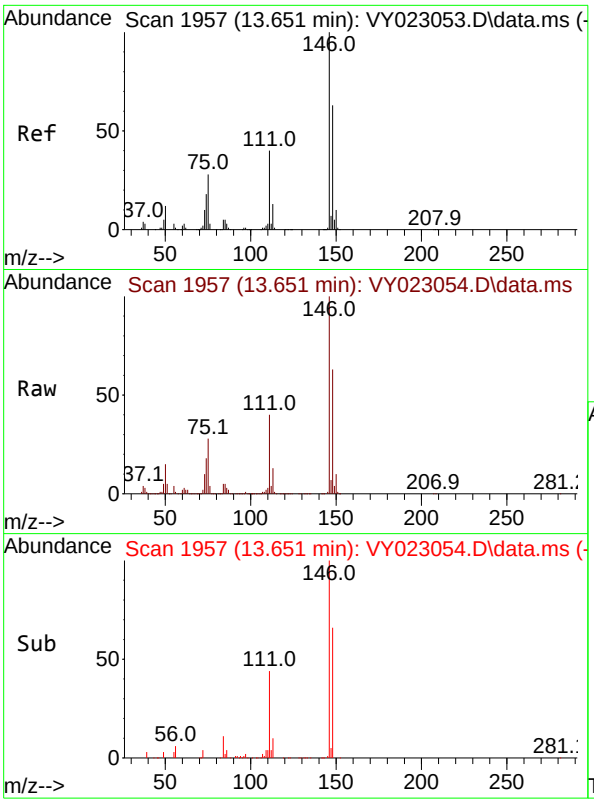


#90
Hexachloroethane
Concen: 98.308 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 510900

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1

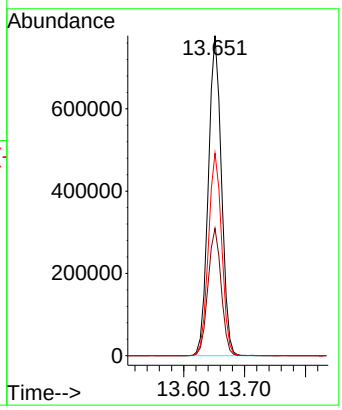




#91
1,2-Dichlorobenzene
Concen: 98.749 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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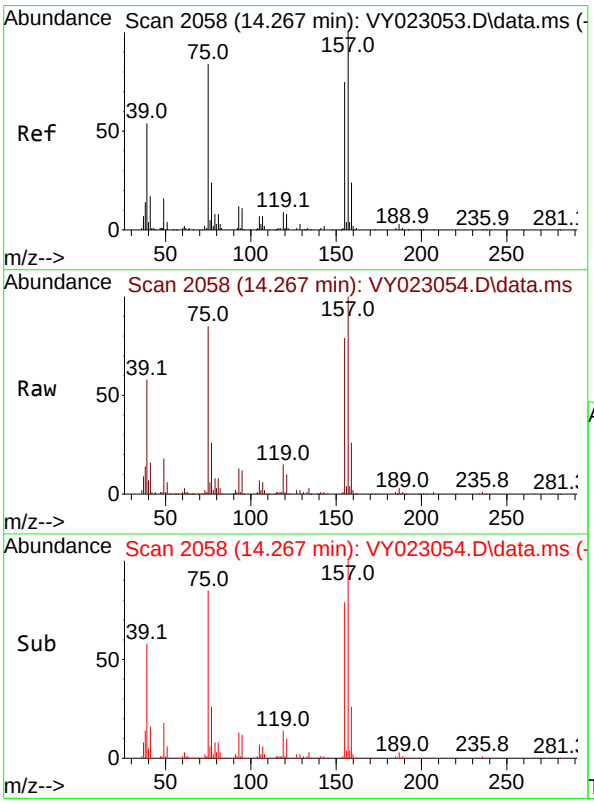
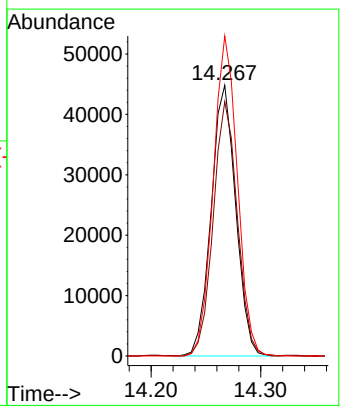
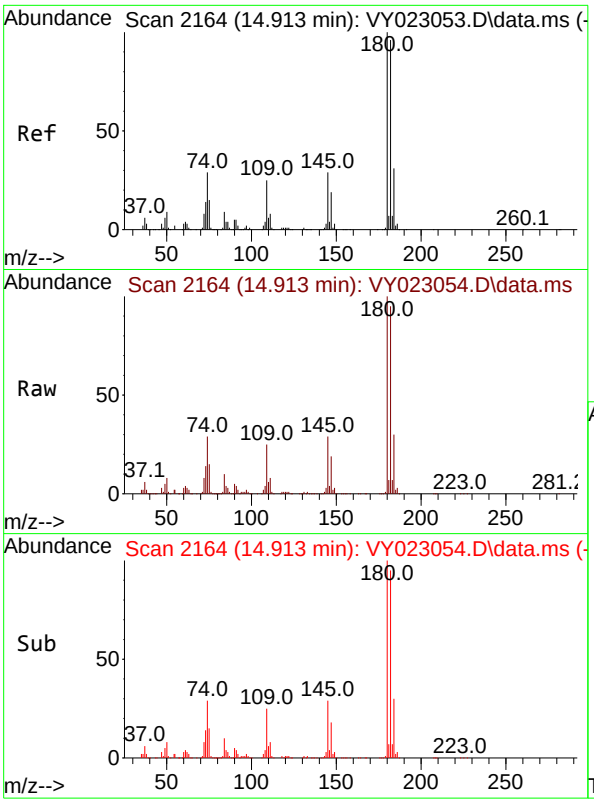


#92
1,2-Dibromo-3-Chloropropane
Concen: 91.965 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

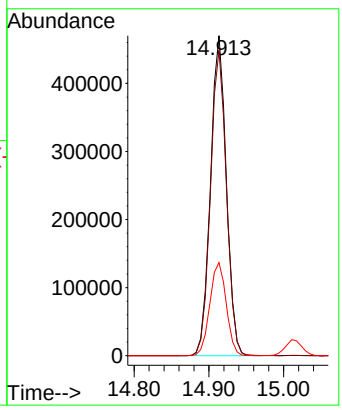




#93
1,2,4-Trichlorobenzene
Concen: 99.460 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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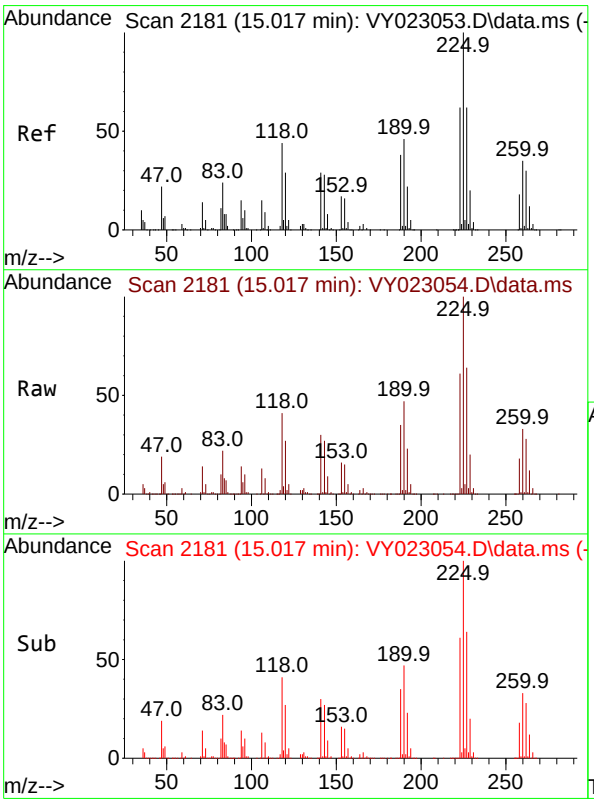
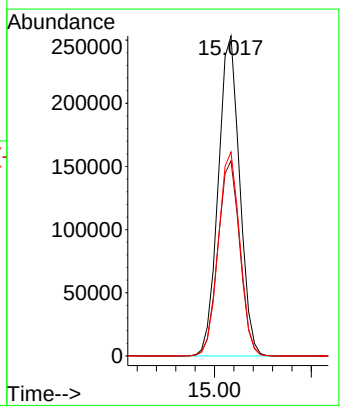
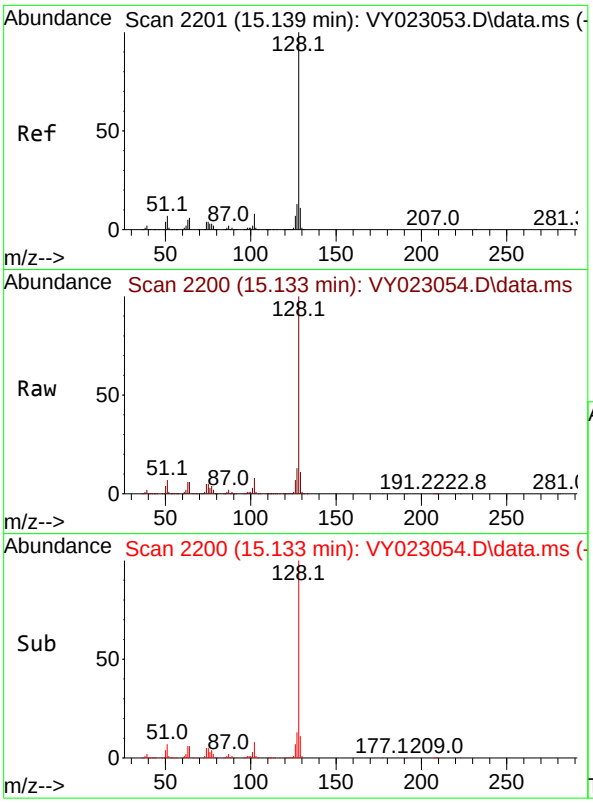


#94
Hexachlorobutadiene
Concen: 94.803 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

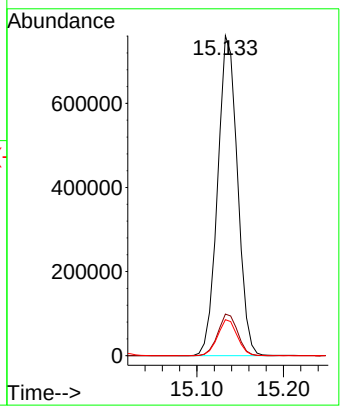




#95
Naphthalene
Concen: 102.147 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:128 Resp: 121222

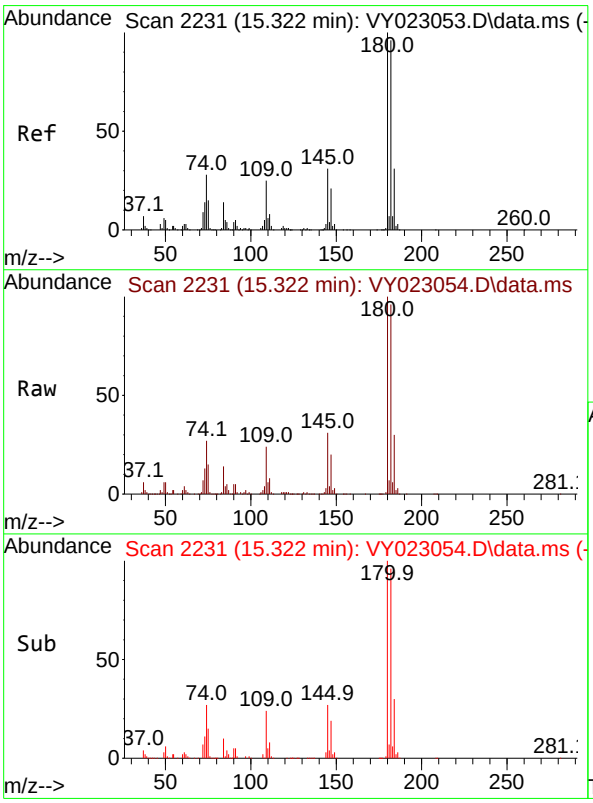
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.1	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

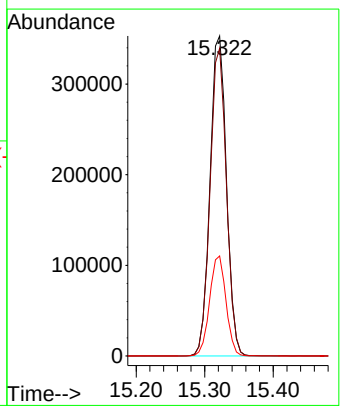
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#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



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

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

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

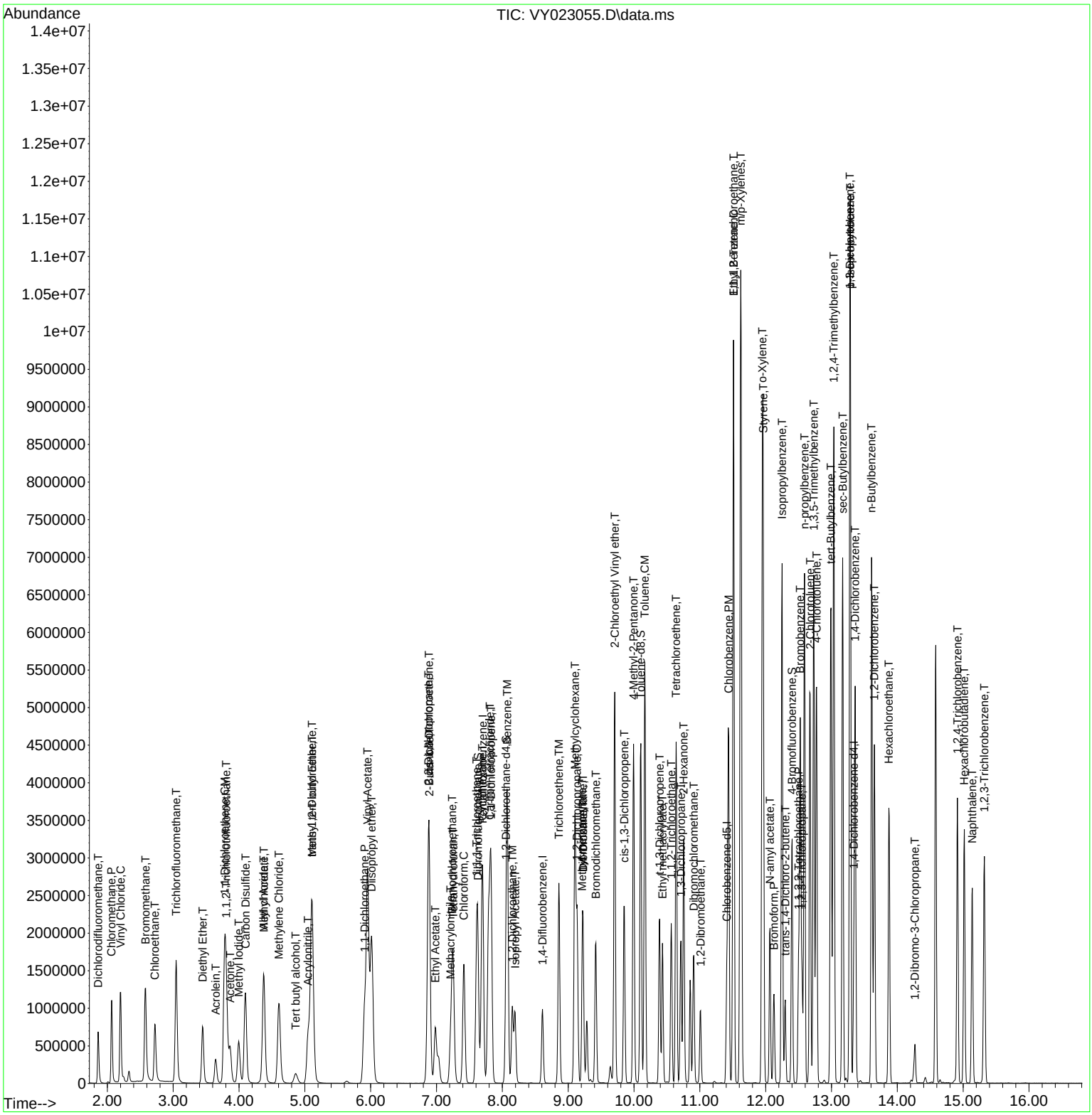
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

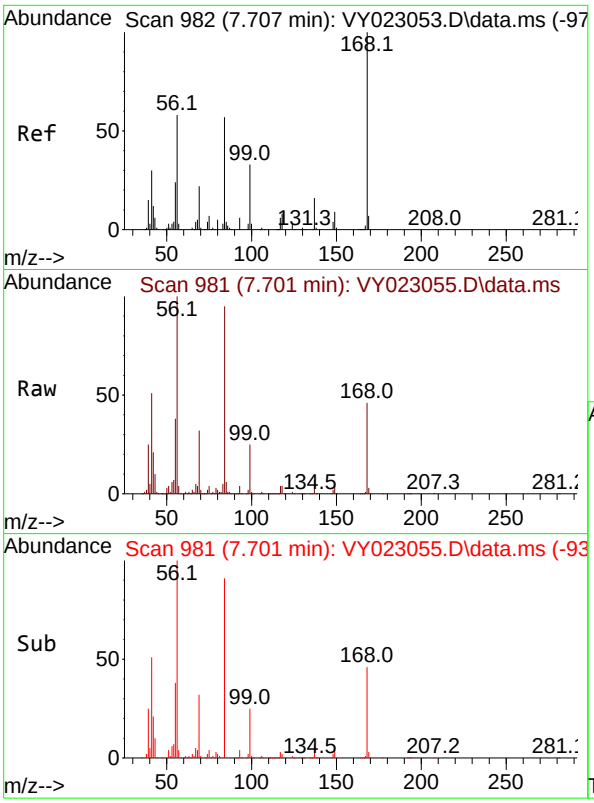
Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

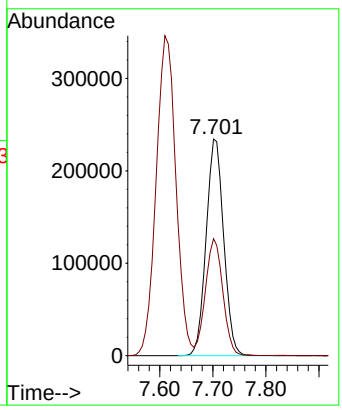




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:168 Resp: 53871

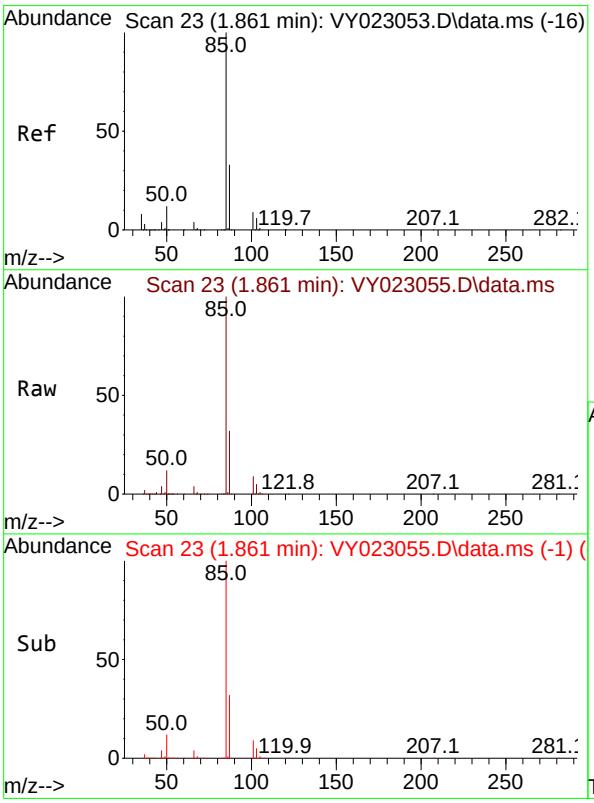
Ion	Ratio	Lower	Upper
168	100		
99	53.8	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

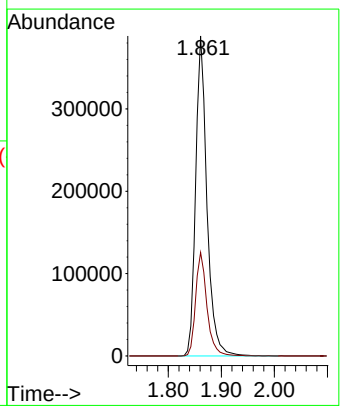
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

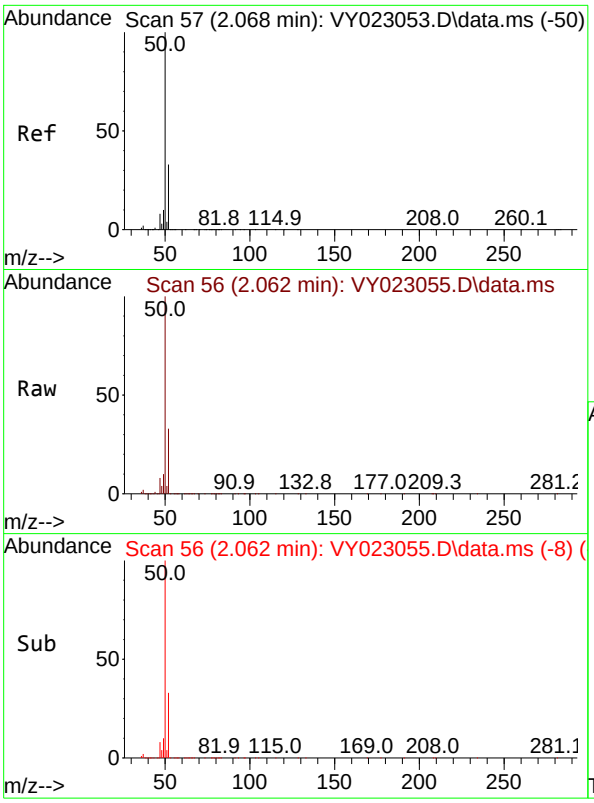


#2
Dichlorodifluoromethane
Concen: 130.017 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 85 Resp: 571723

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8

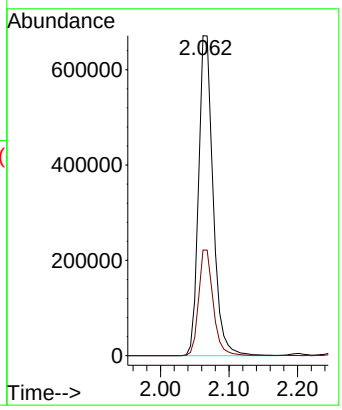




#3
Chloromethane
Concen: 139.173 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 50 Resp: 99121

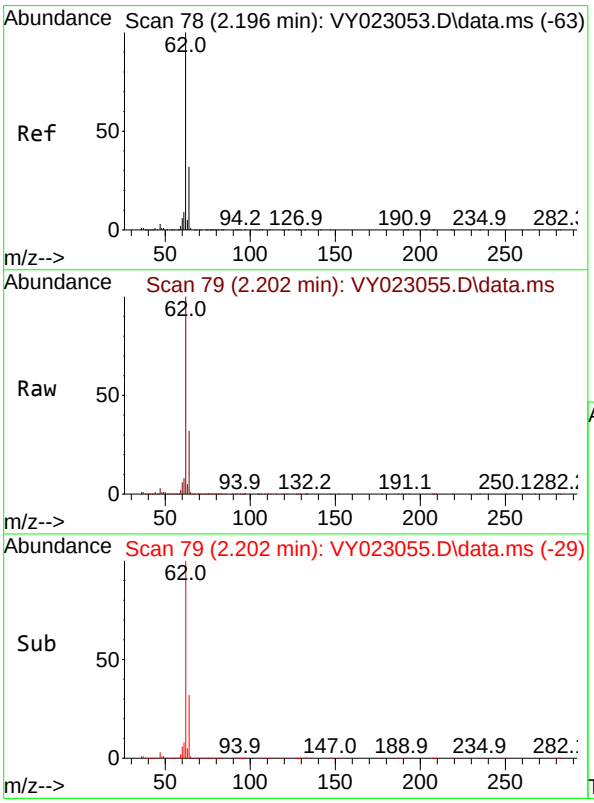
Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

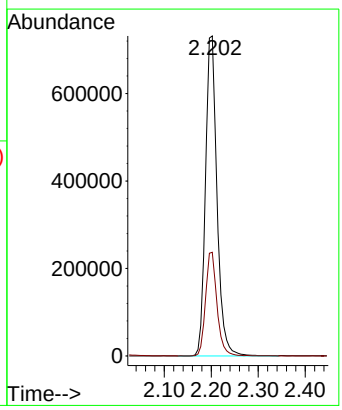
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

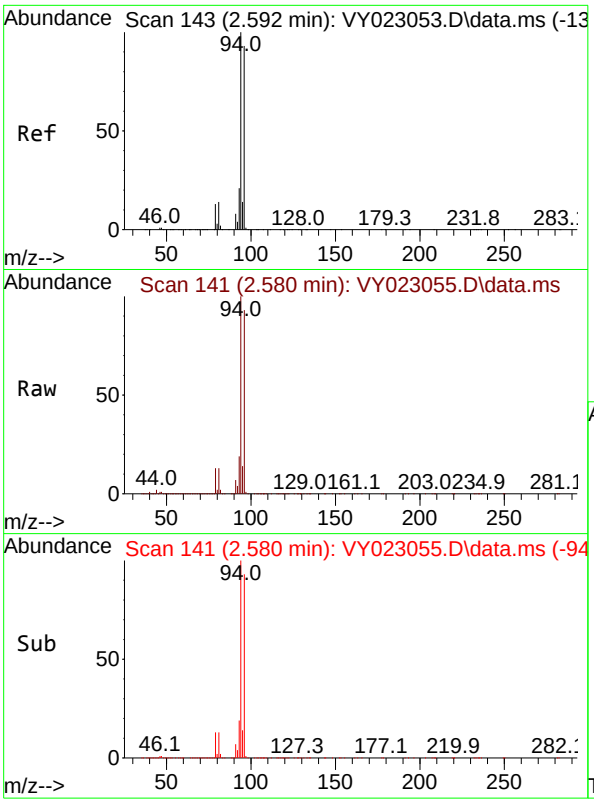


#4
Vinyl Chloride
Concen: 140.692 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

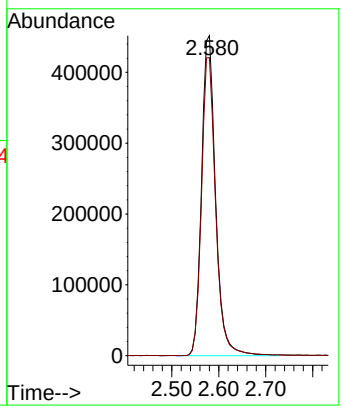
Tgt Ion: 94 Resp: 93871

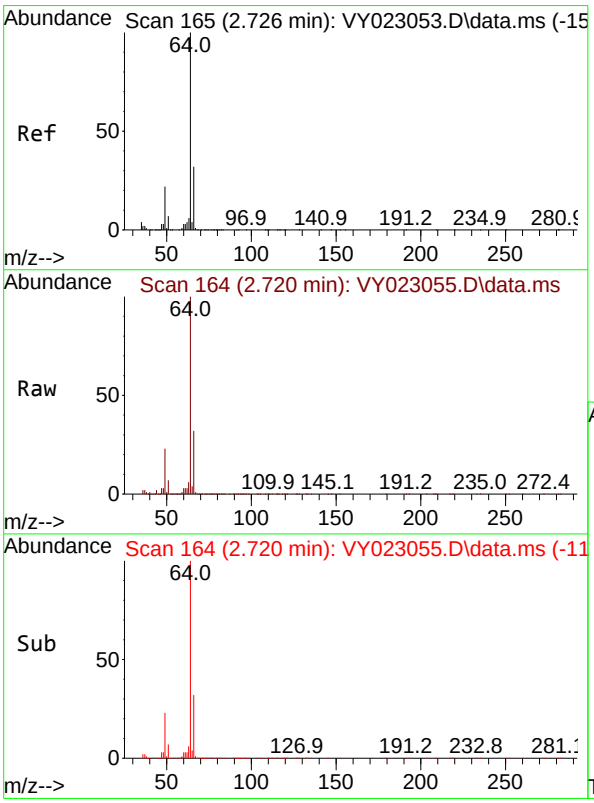
Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

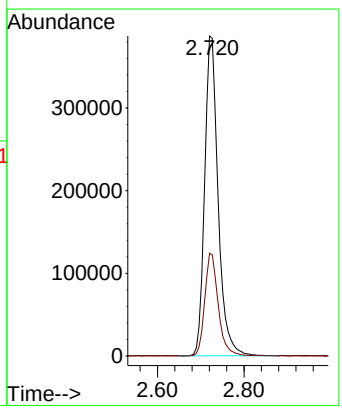


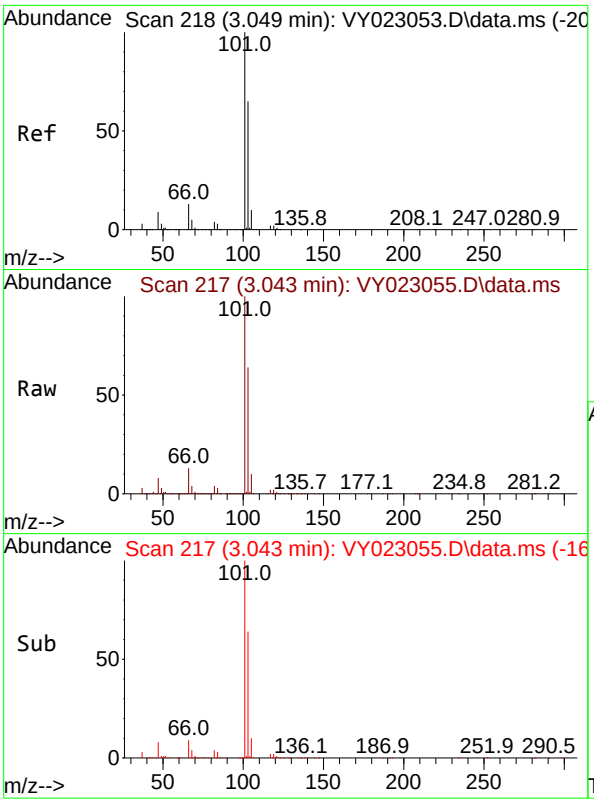


#6
Chloroethane
Concen: 142.581 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 64 Resp: 834547

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6

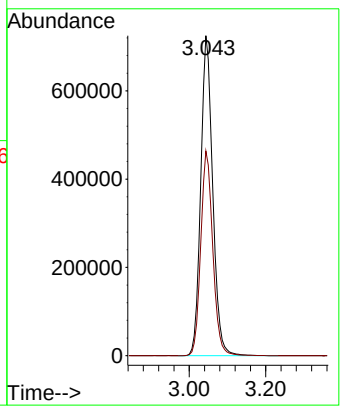




#7
Trichlorofluoromethane
Concen: 147.051 ug/l
RT: 3.043 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:101 Resp: 157421

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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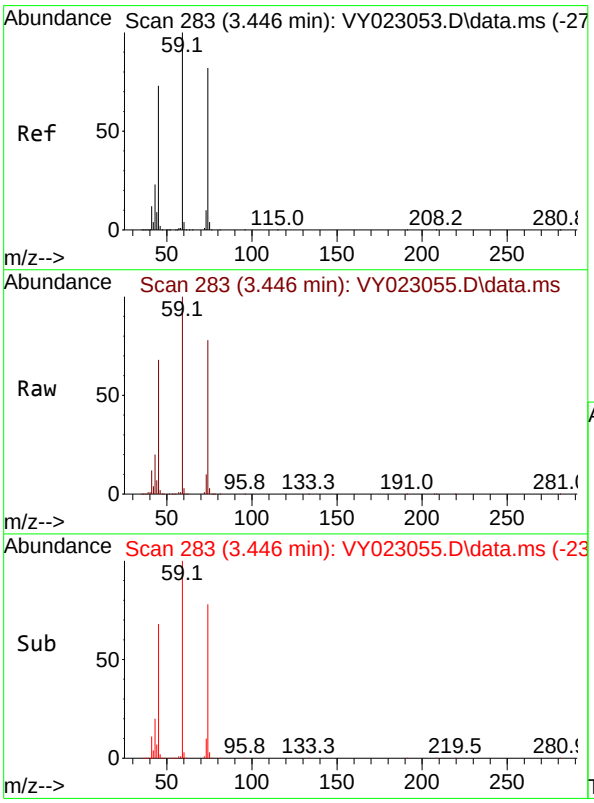
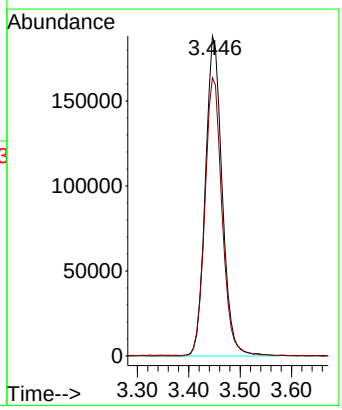
Supervised By :Semsettin Yesilyurt 08/14/2025

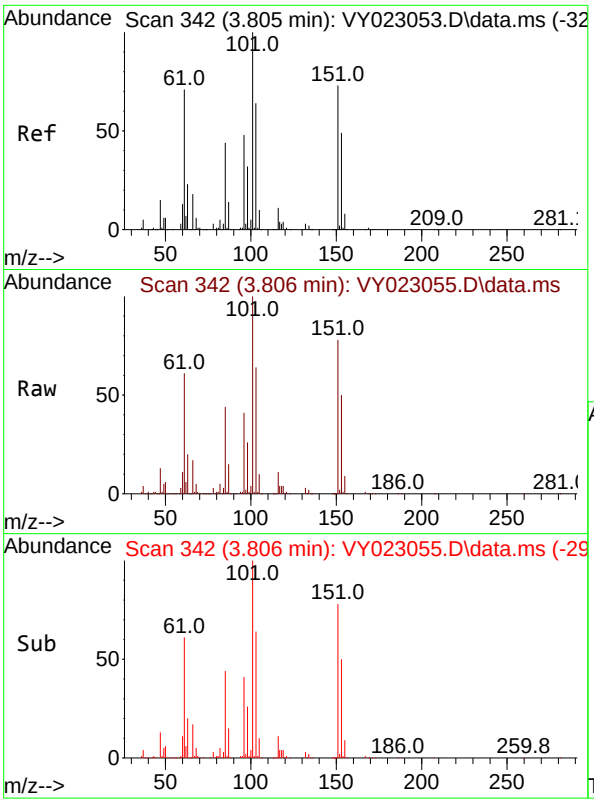


#8
Diethyl Ether
Concen: 150.496 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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 :
VSTDICC150

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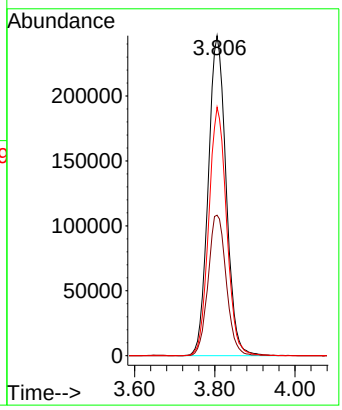
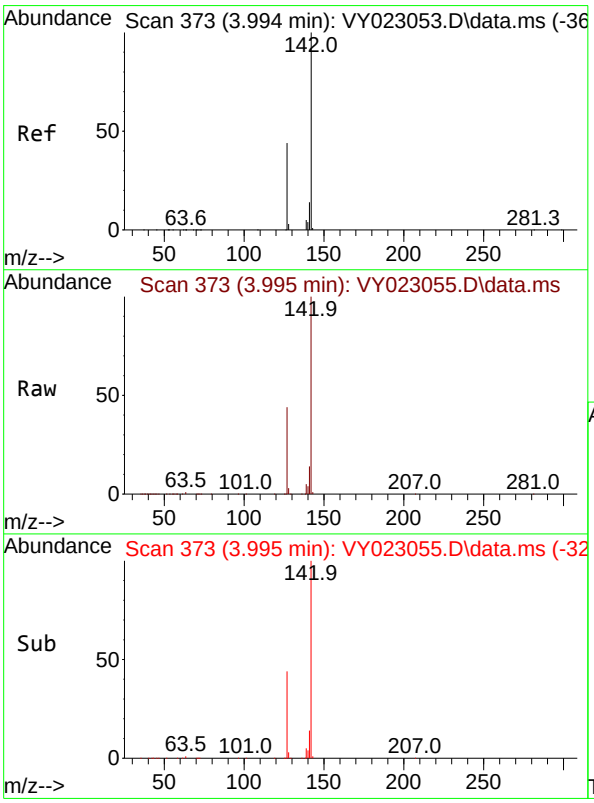
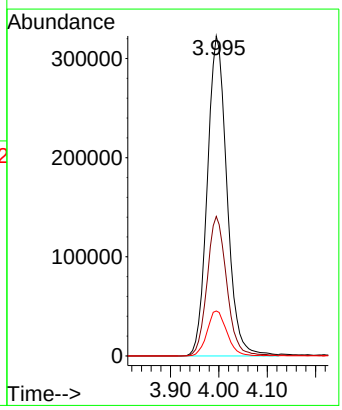


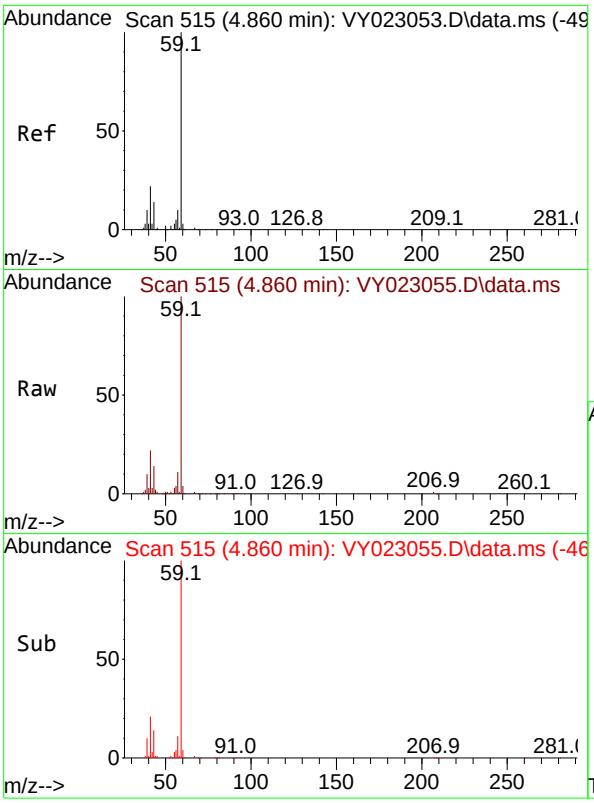


#10
Methyl Iodide
Concen: 159.567 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

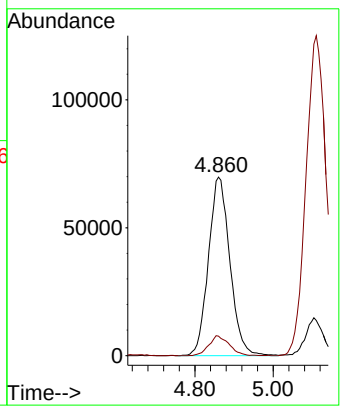




#11
Tert butyl alcohol
Concen: 753.967 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 59 Resp: 26524

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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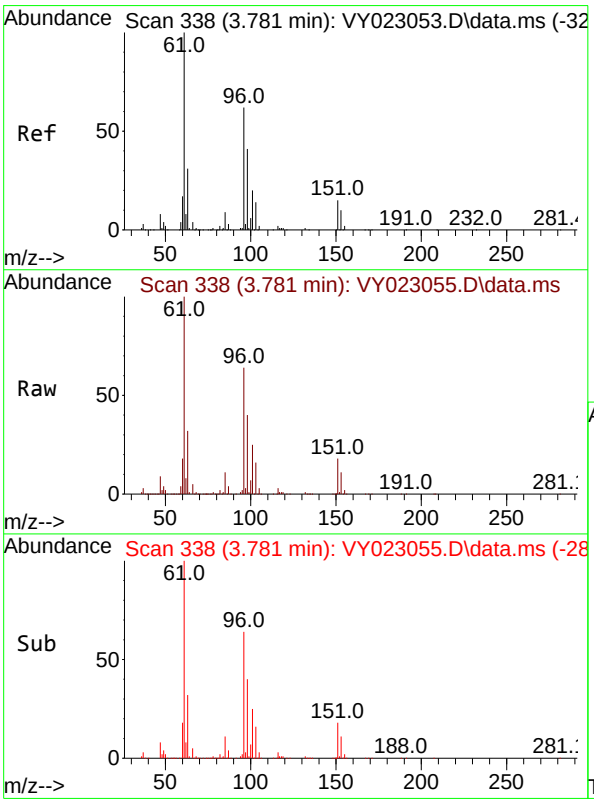
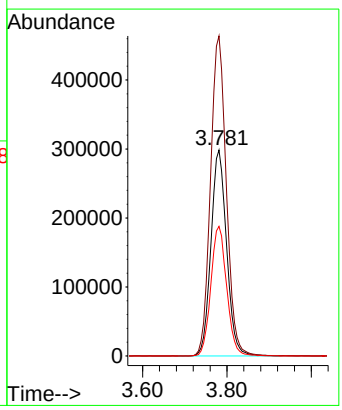
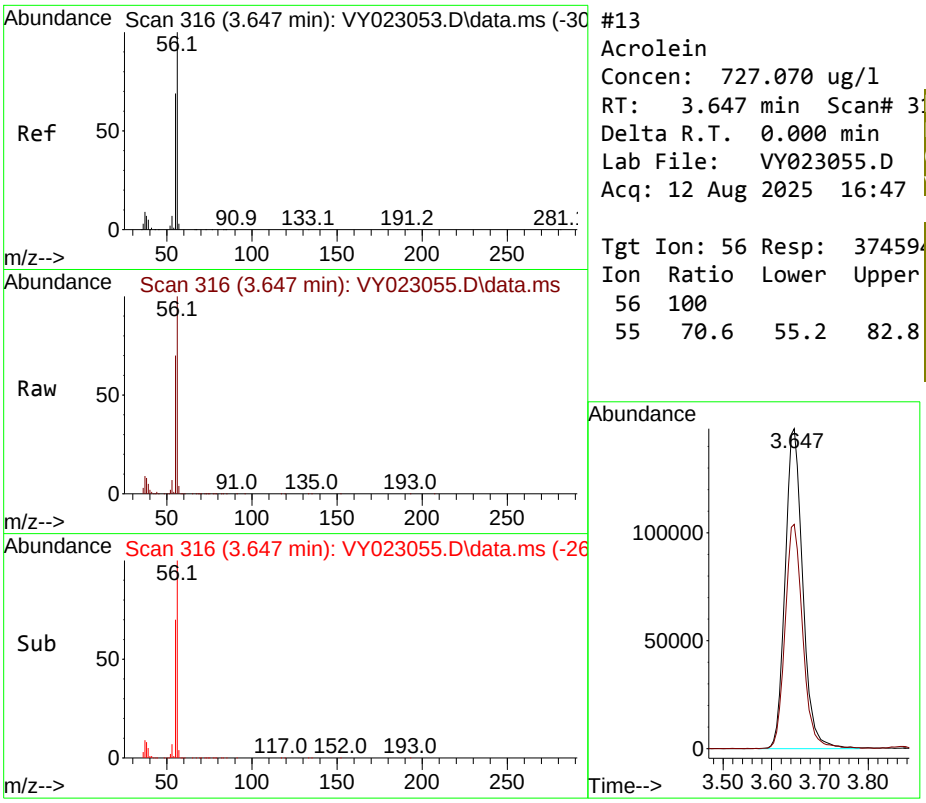


#12
1,1-Dichloroethene
Concen: 147.960 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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 :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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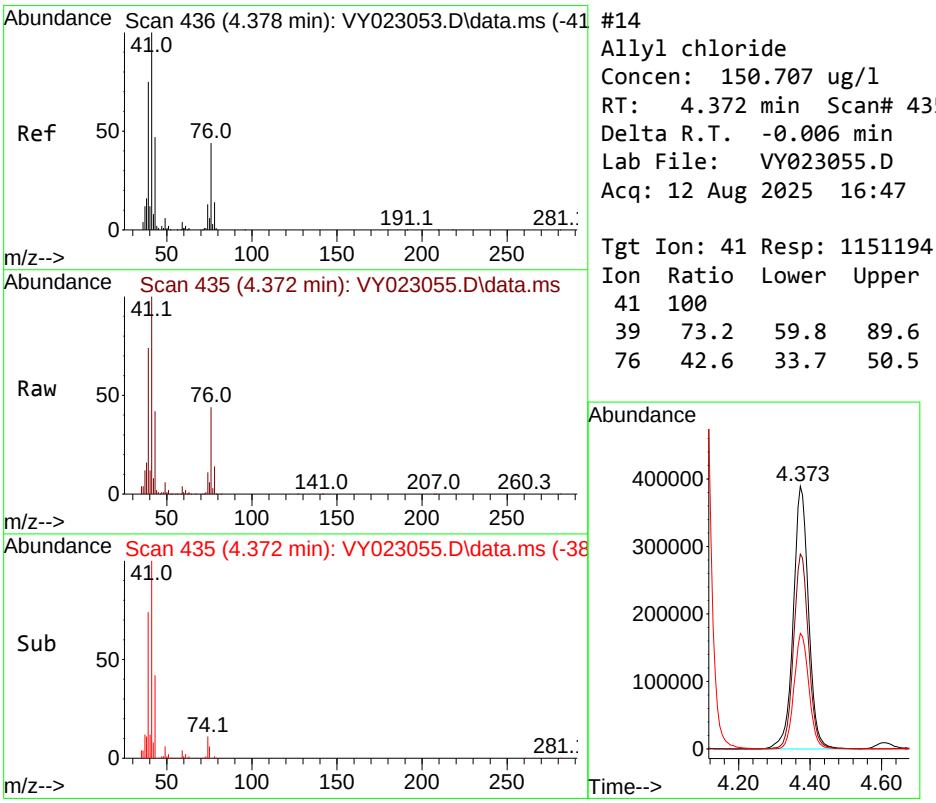
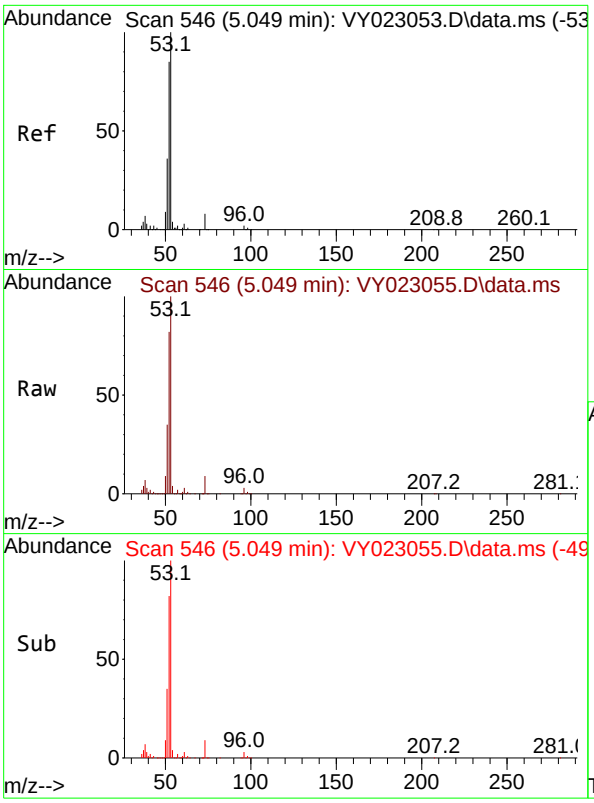


#14
Allyl chloride
Concen: 150.707 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 1151194

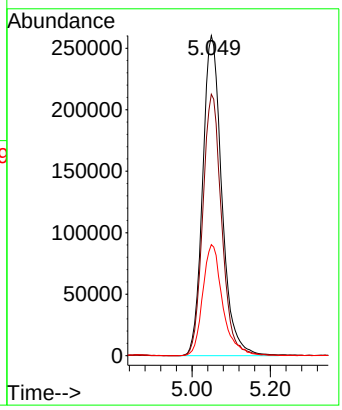
Ion	Ratio	Lower	Upper
41	100		
39	73.2	59.8	89.6
76	42.6	33.7	50.5



#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 :
MSVOA_Y
ClientSampleId :
VSTDICC150

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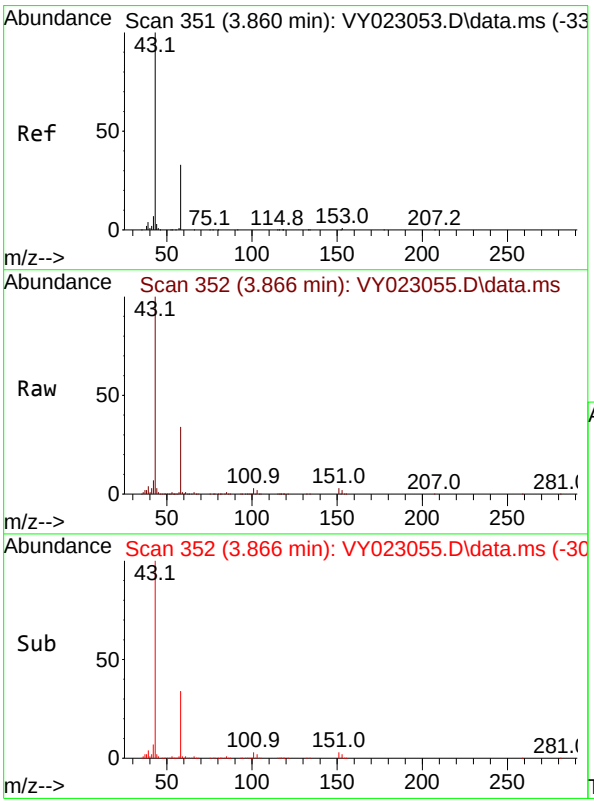
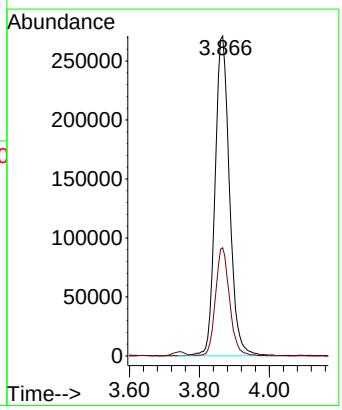
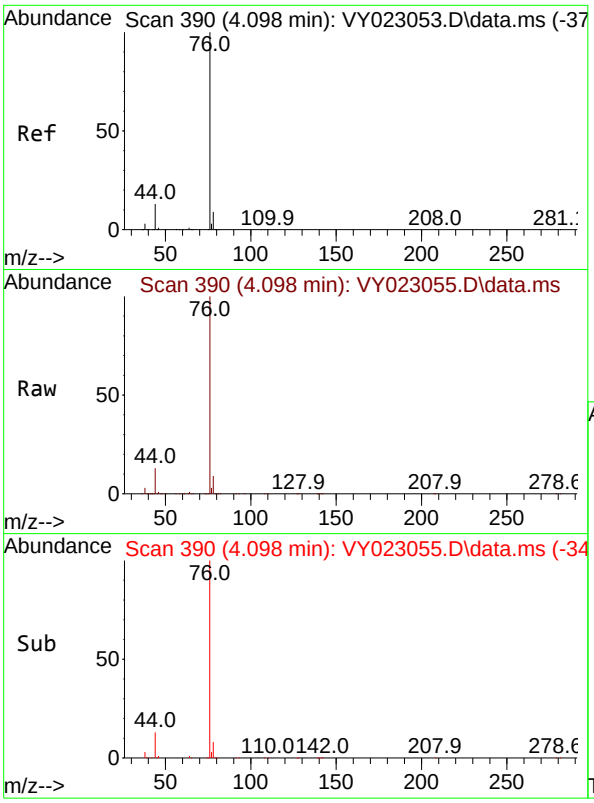


#16
Acetone
Concen: 699.133 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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 :
MSVOA_Y
ClientSampleId :
VSTDICC150

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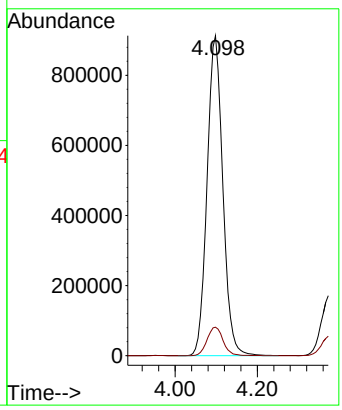
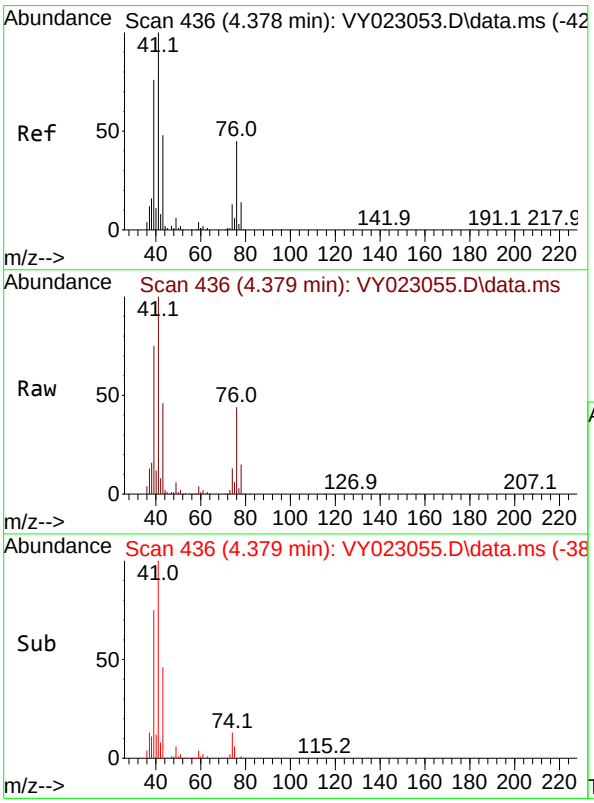
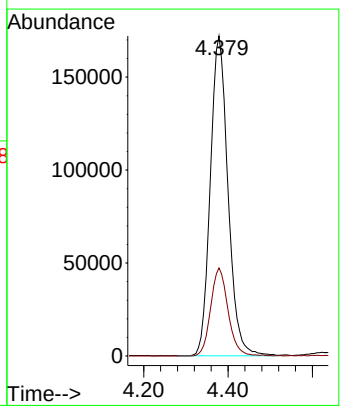


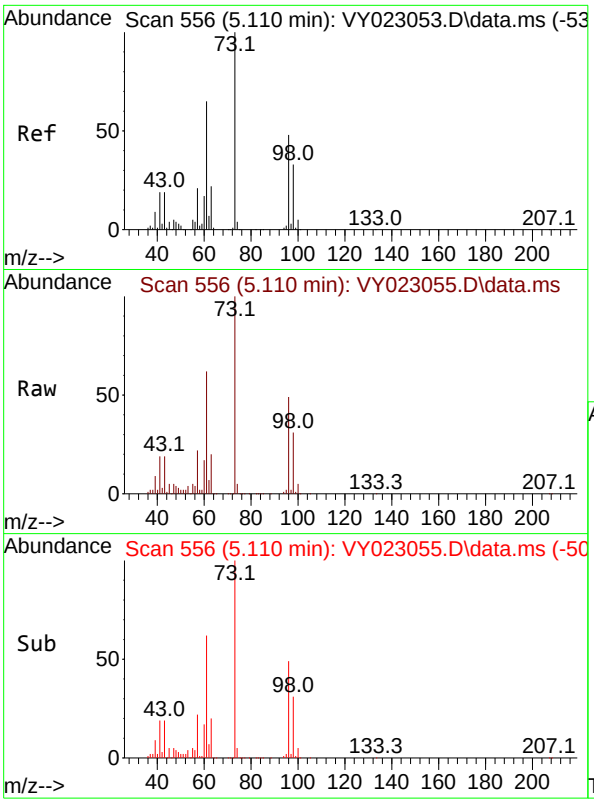


#18
Methyl Acetate
Concen: 151.100 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 500151

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8

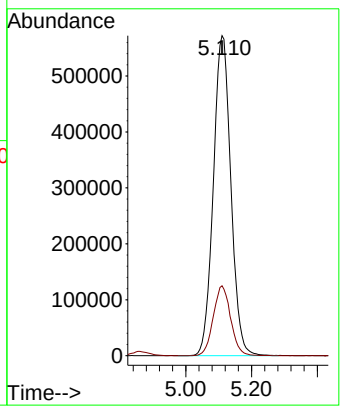




#19
Methyl tert-butyl Ether
Concen: 157.144 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 73 Resp: 211392

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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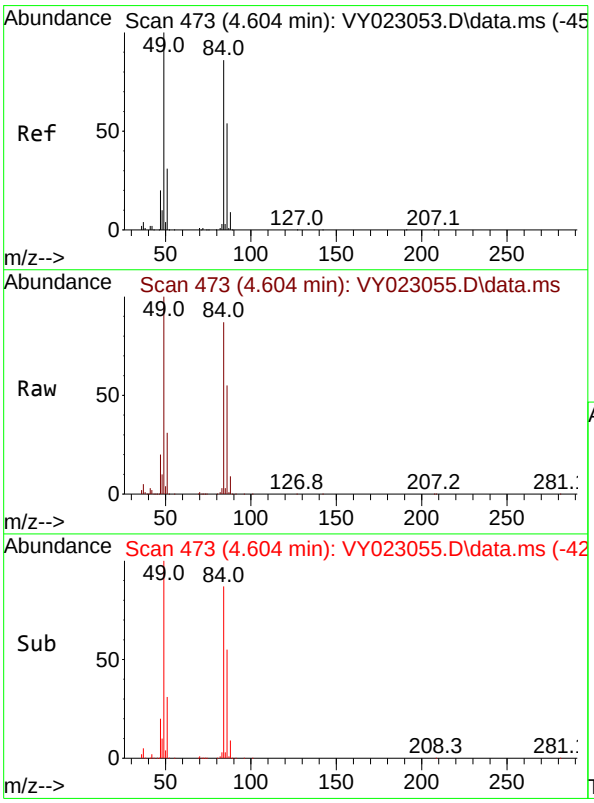
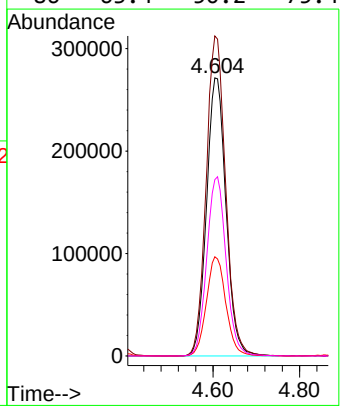
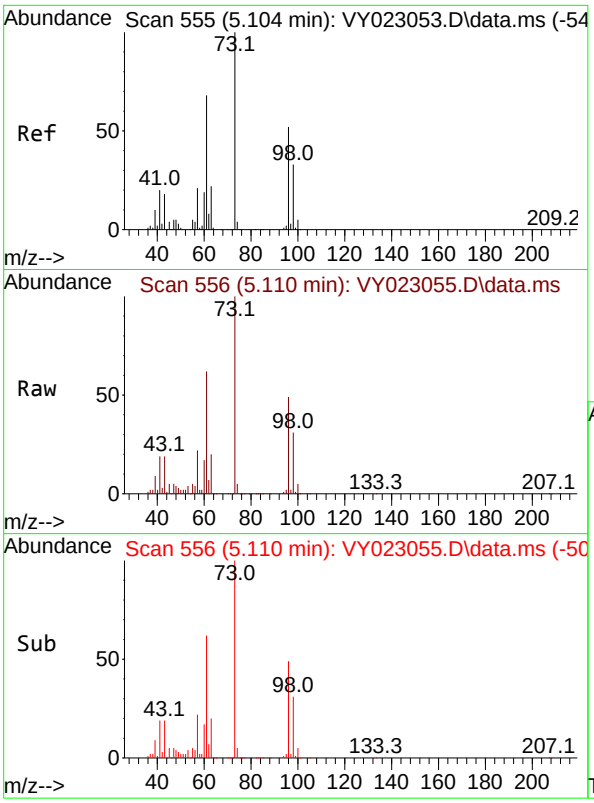


#20
Methylene Chloride
Concen: 152.064 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

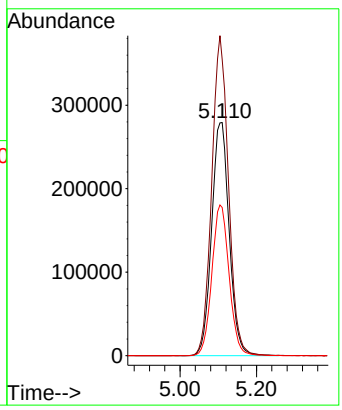




#21
trans-1,2-Dichloroethene
Concen: 152.474 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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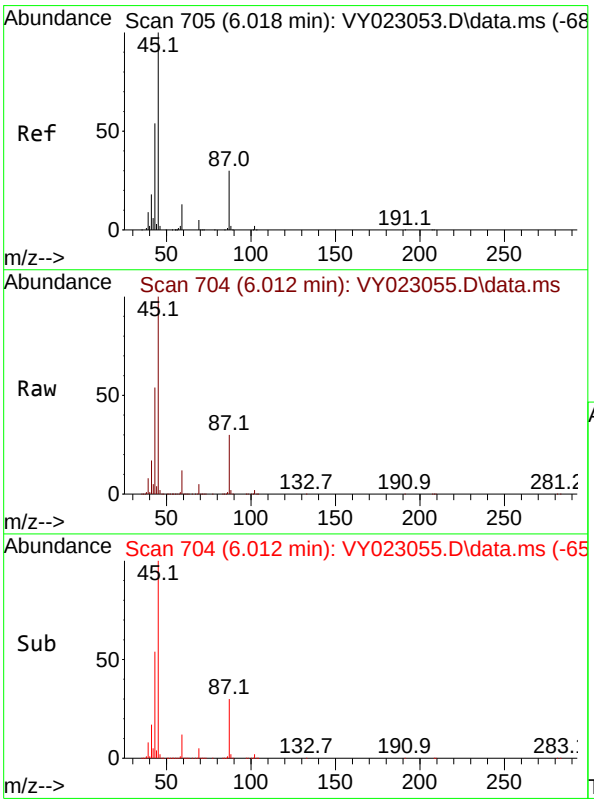
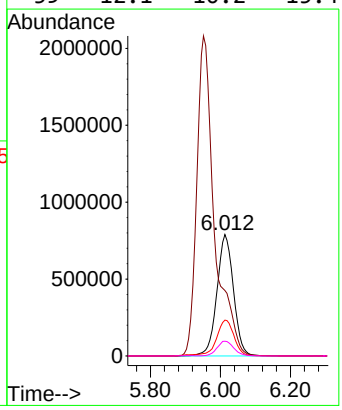
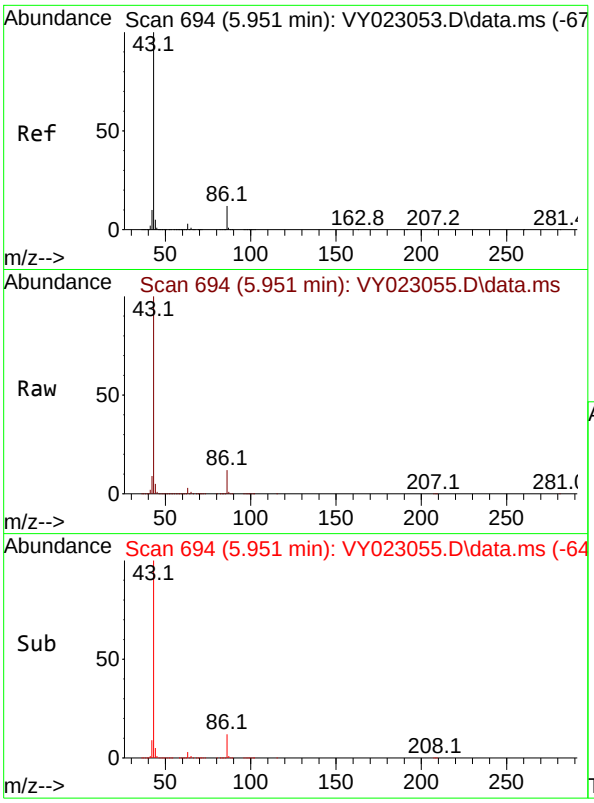


#22
Diisopropyl ether
Concen: 156.307 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

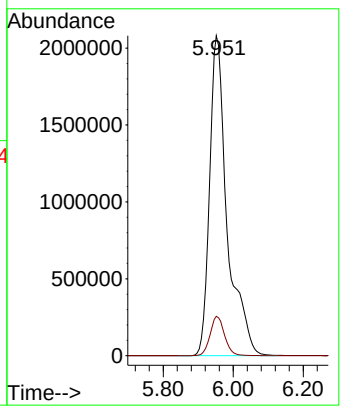




#23
Vinyl Acetate
Concen: 791.851 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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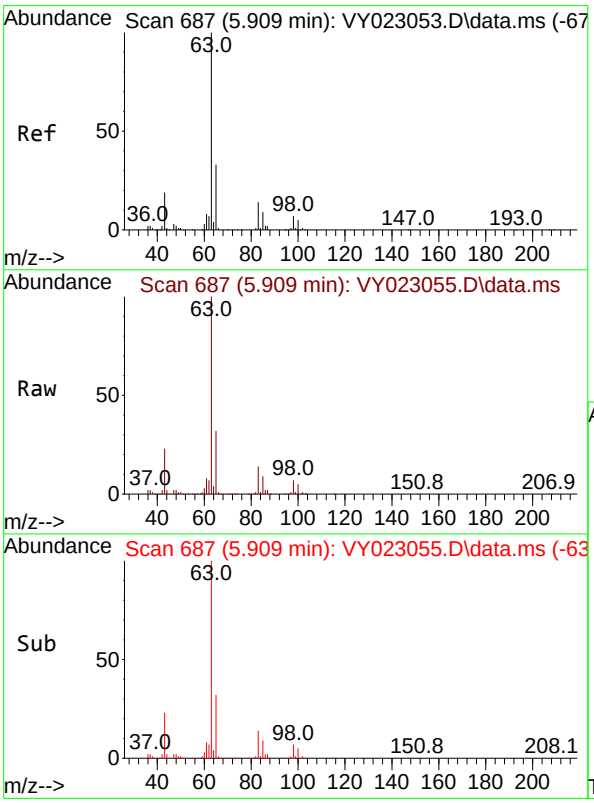
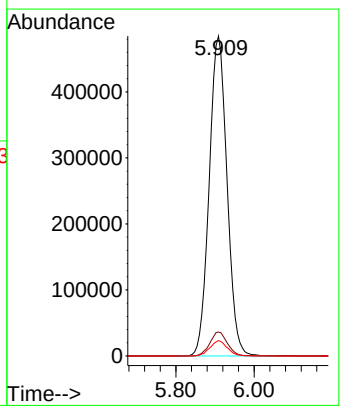
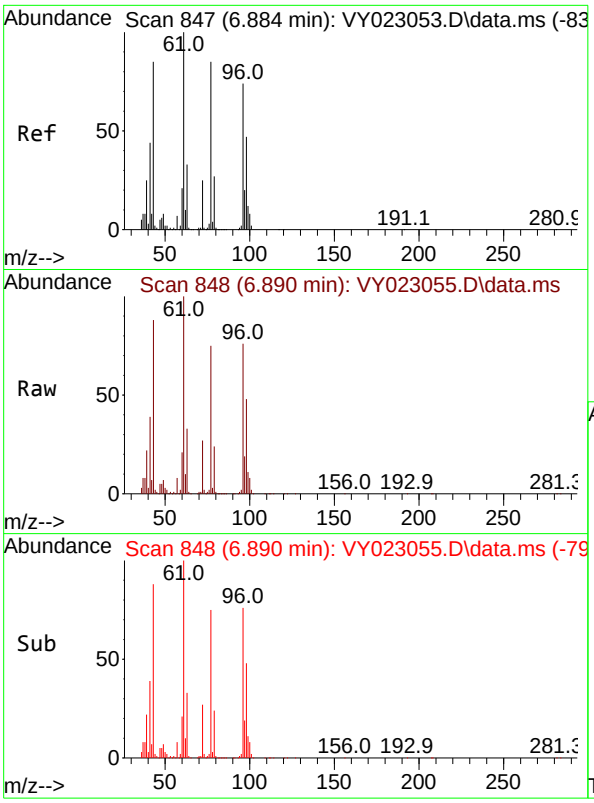


#24
1,1-Dichloroethane
Concen: 150.534 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

Manual Integrations
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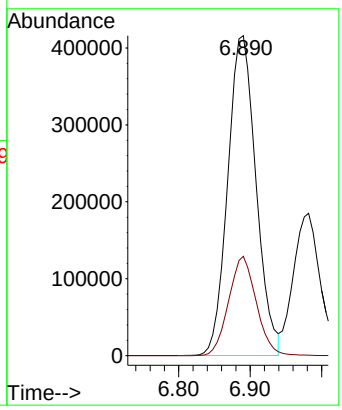
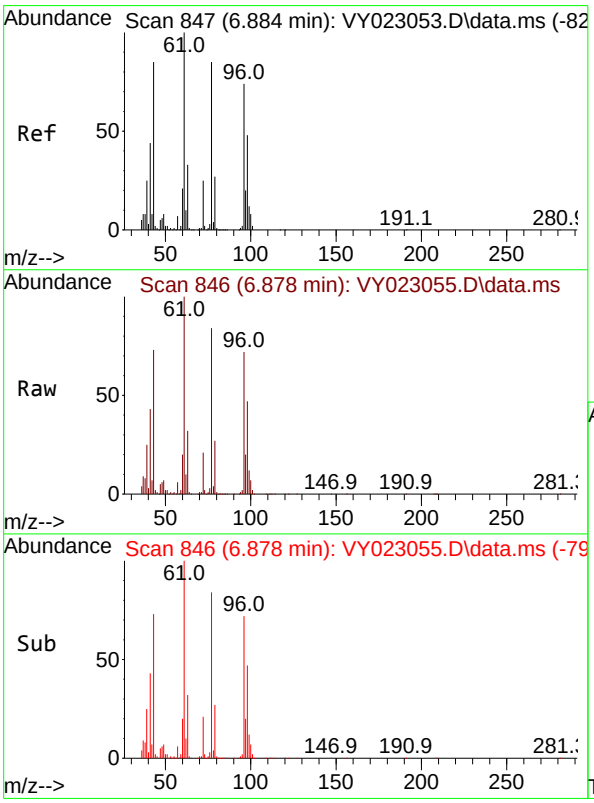
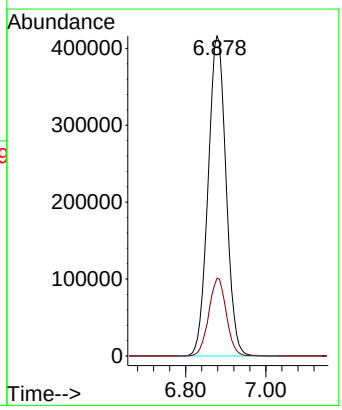


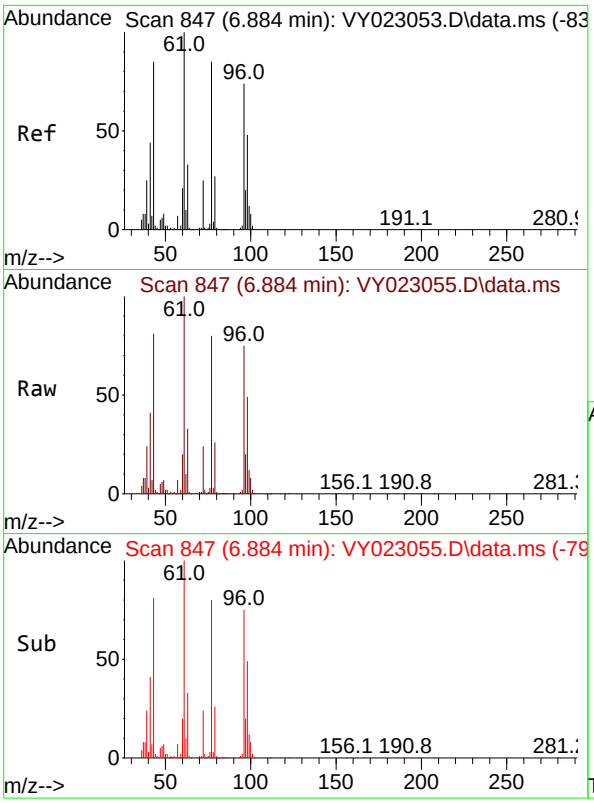


#26
2,2-Dichloropropane
Concen: 147.663 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 77 Resp: 1293043

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.8

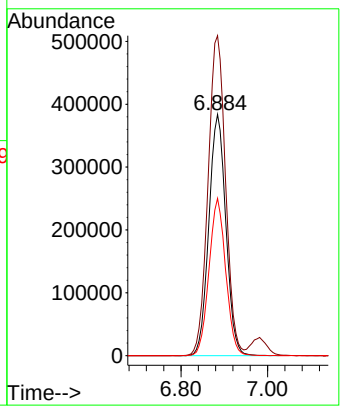




#27
cis-1,2-Dichloroethene
Concen: 155.348 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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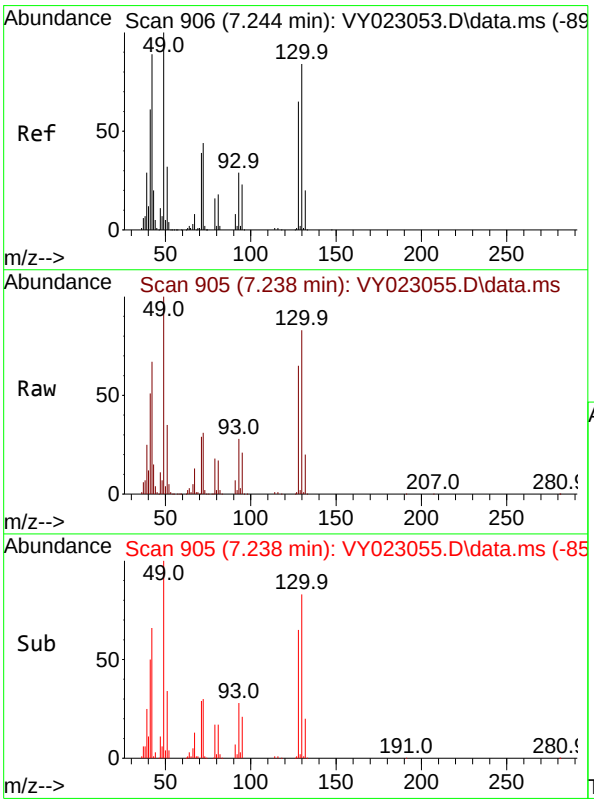
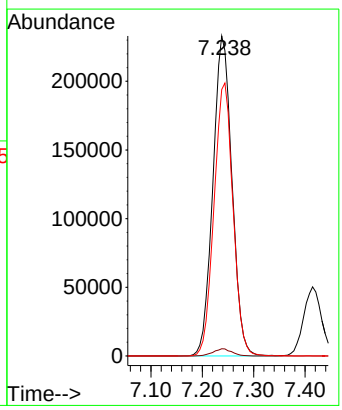
Supervised By :Semsettin Yesilyurt 08/14/2025

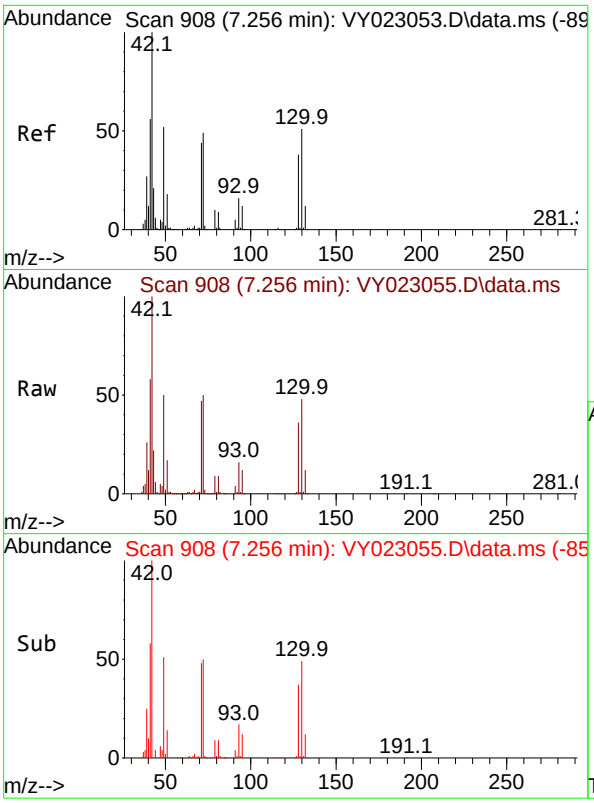


#28
Bromochloromethane
Concen: 148.984 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

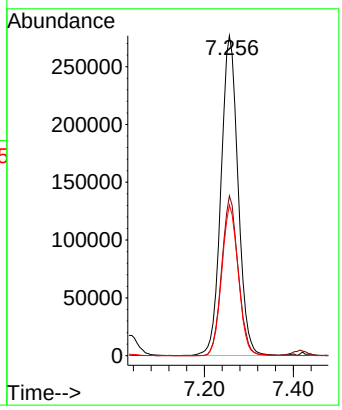




#29
Tetrahydrofuran
Concen: 783.186 ug/l
RT: 7.256 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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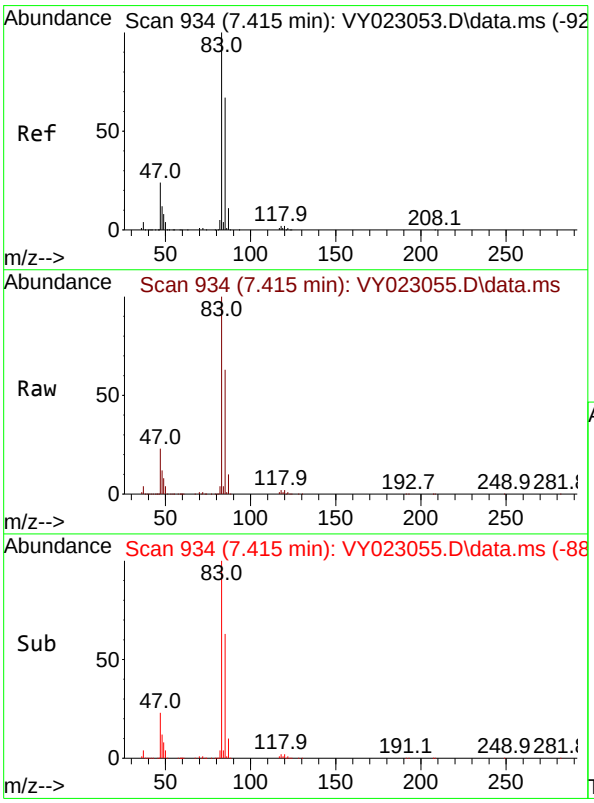
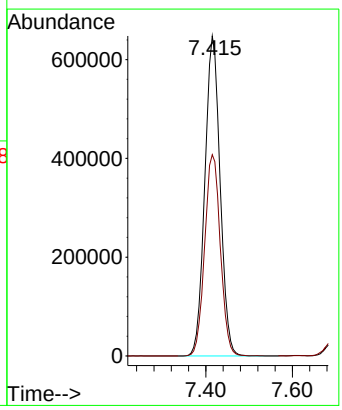
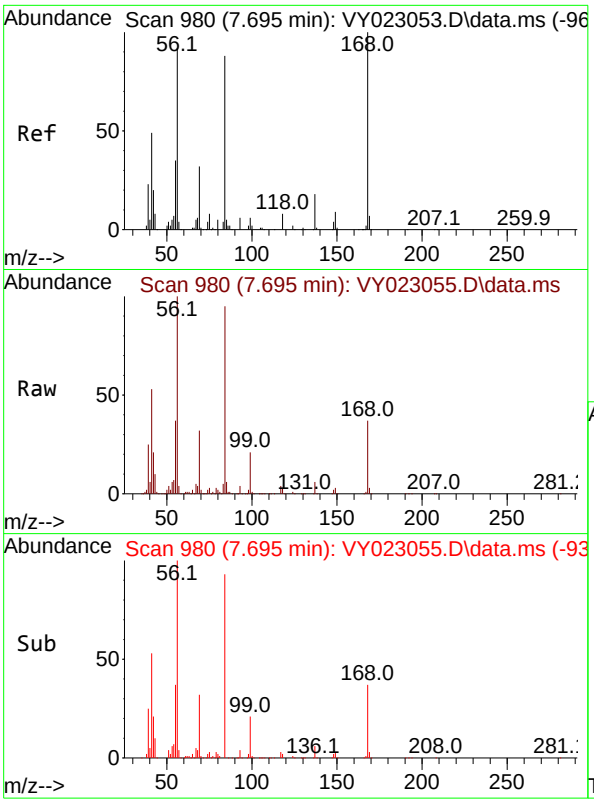


#30
Chloroform
Concen: 151.505 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 1585686

Ion	Ratio	Lower	Upper
83	100		
85	62.9	53.8	80.8

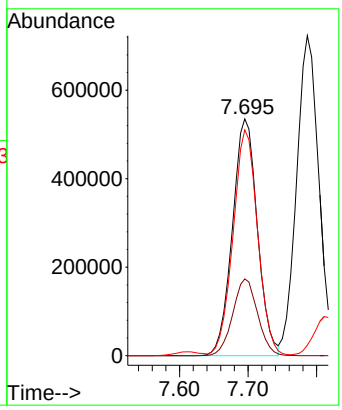




#31
Cyclohexane
Concen: 141.586 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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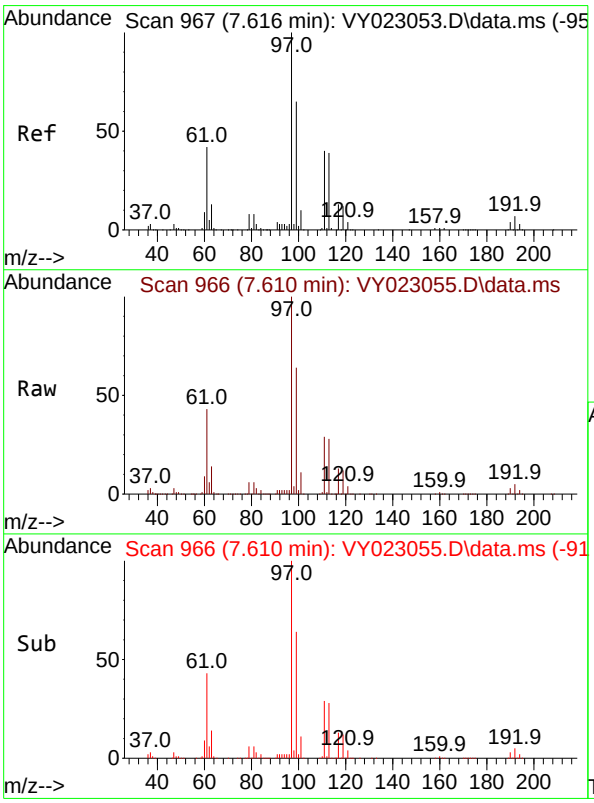
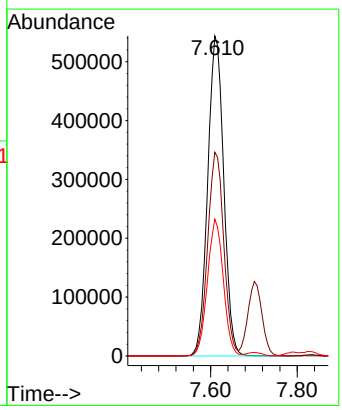
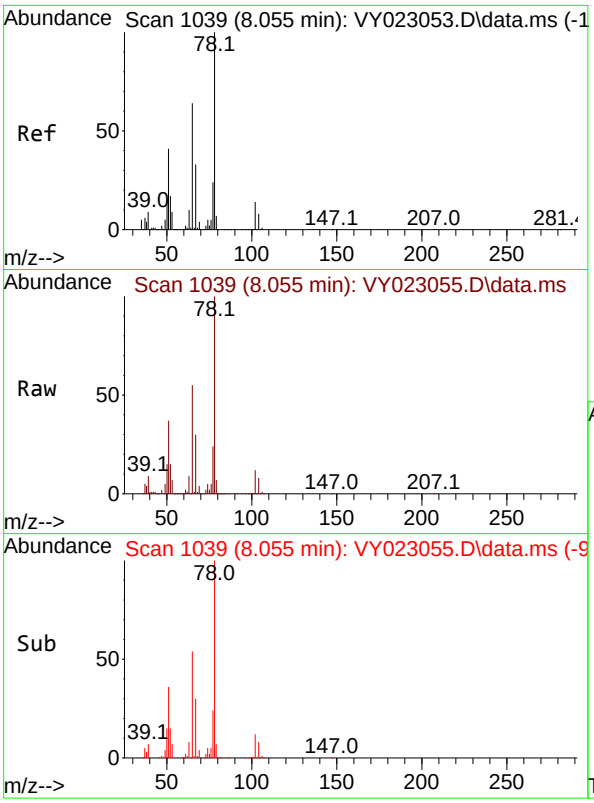


#32
1,1,1-Trichloroethane
Concen: 150.372 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

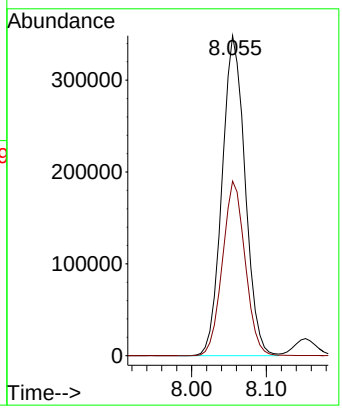




#33
1,2-Dichloroethane-d4
Concen: 145.480 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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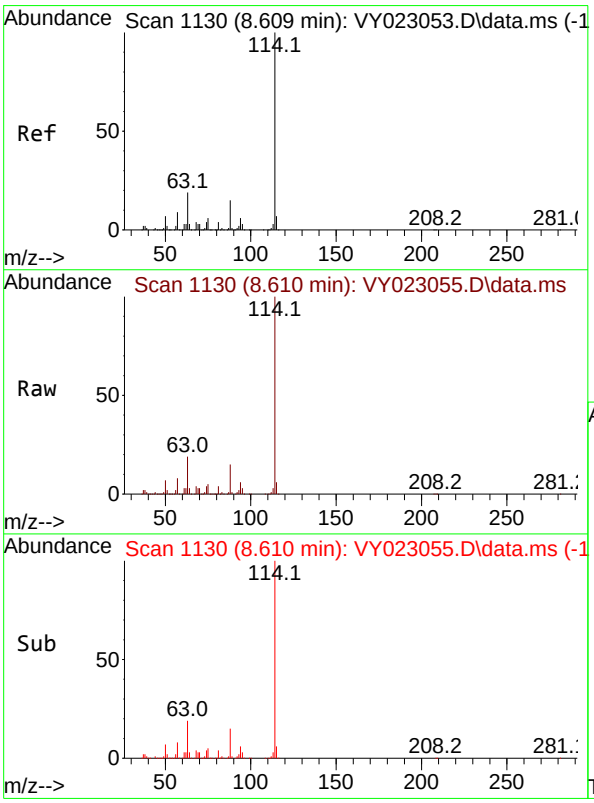
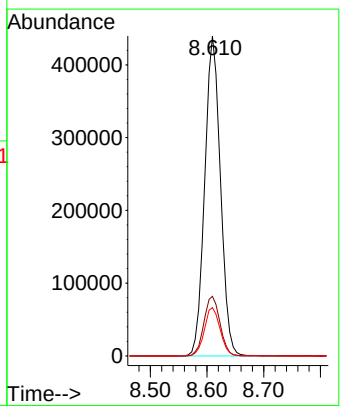
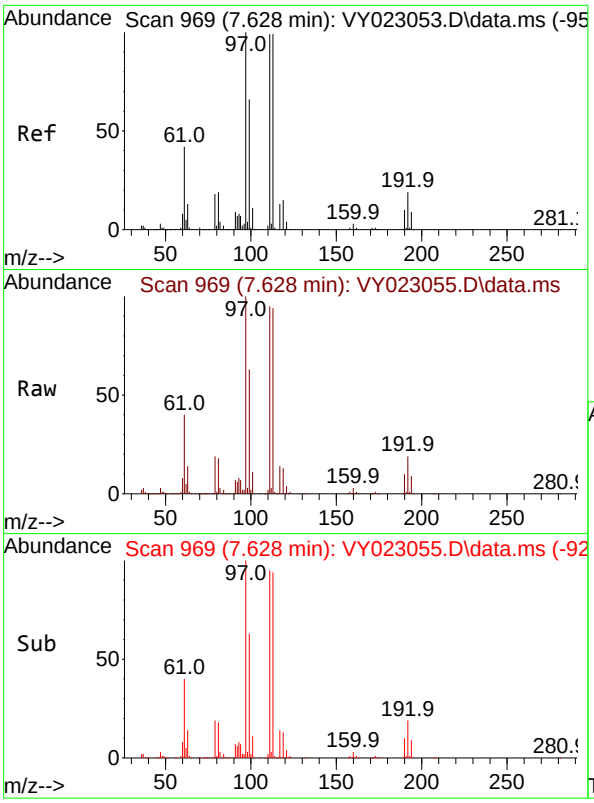


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

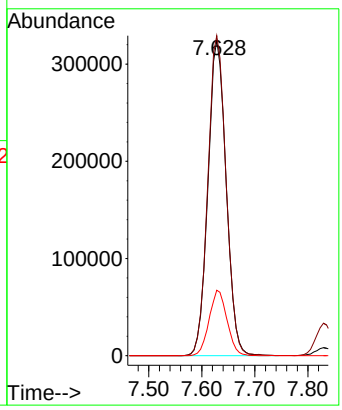




#35
Dibromofluoromethane
Concen: 152.837 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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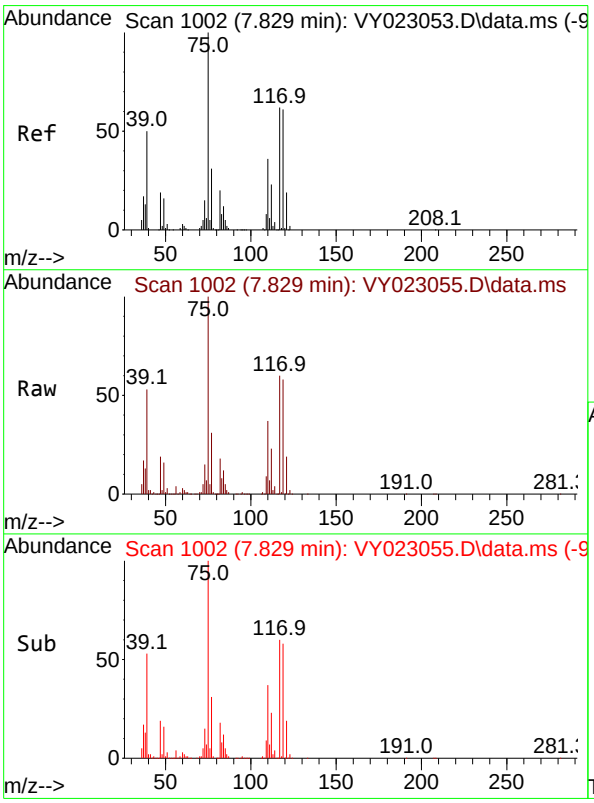
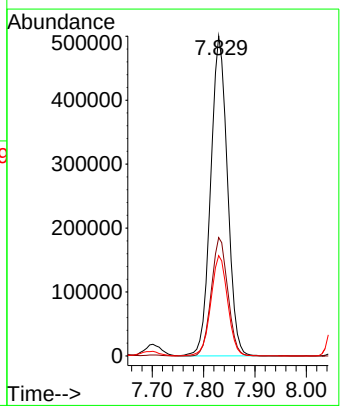
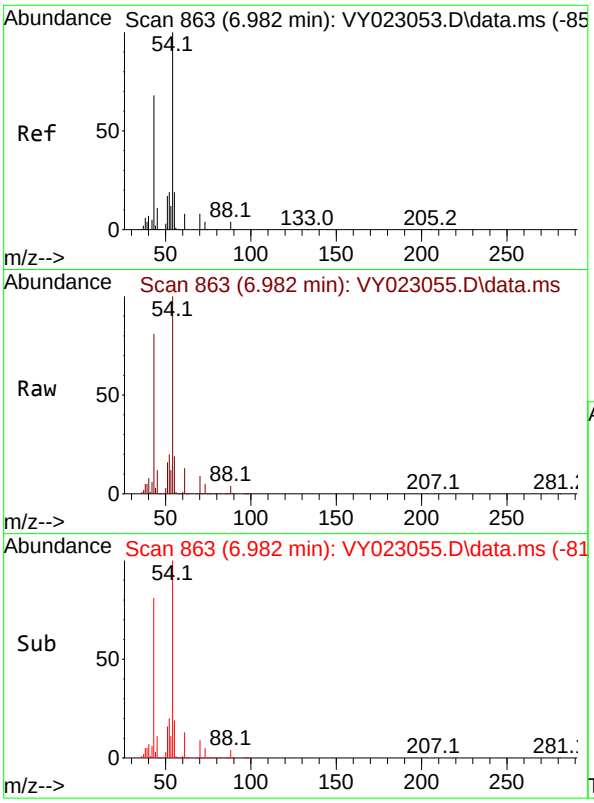


#36
1,1-Dichloropropene
Concen: 150.850 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

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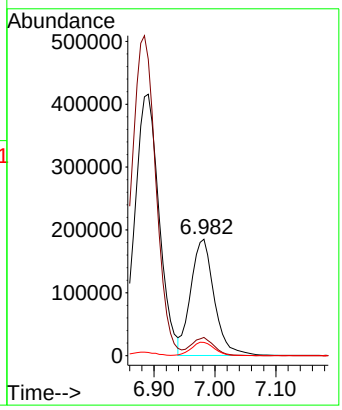
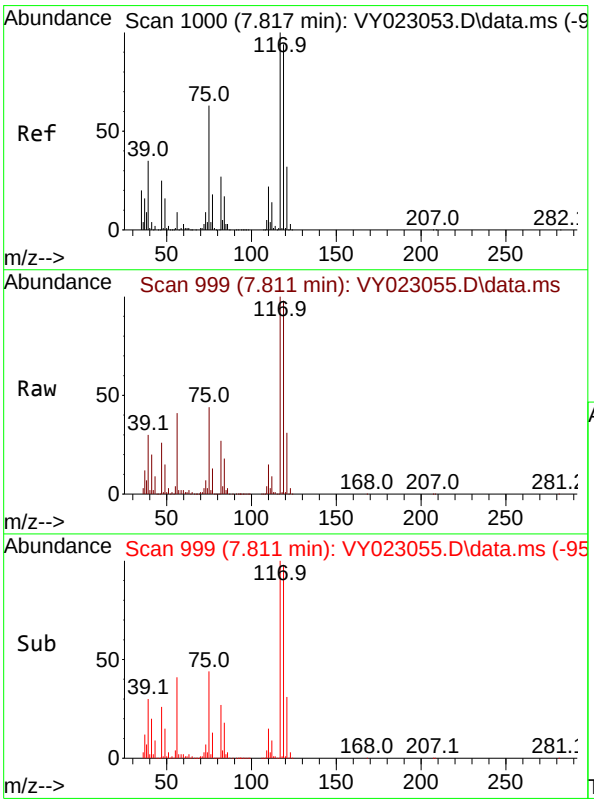
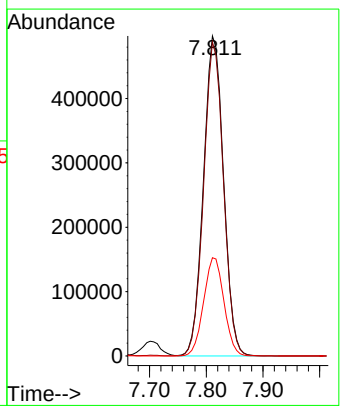


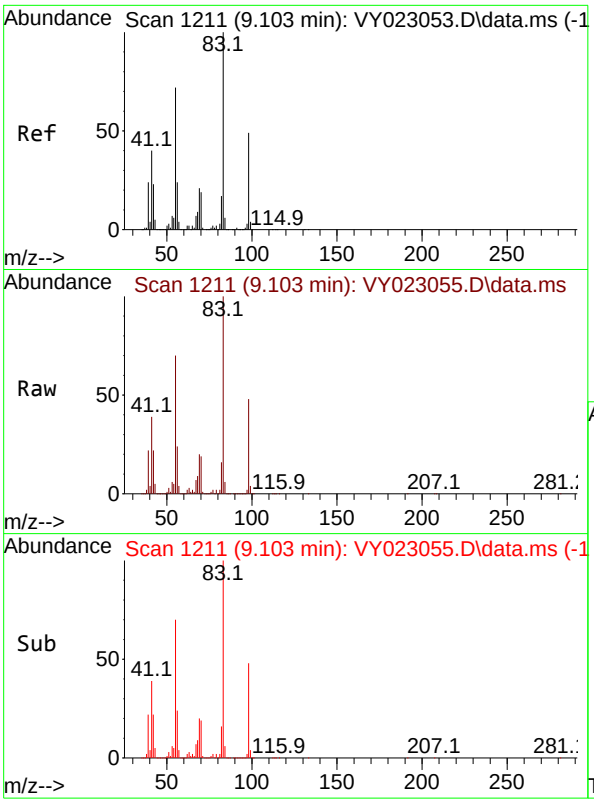


#38
Carbon Tetrachloride
Concen: 150.478 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

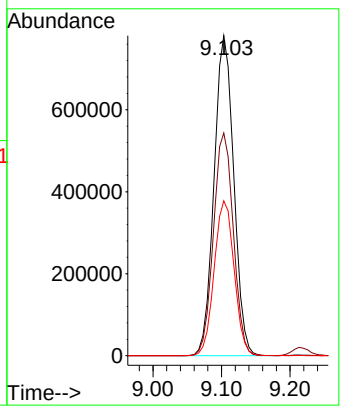




#39
Methylcyclohexane
Concen: 157.417 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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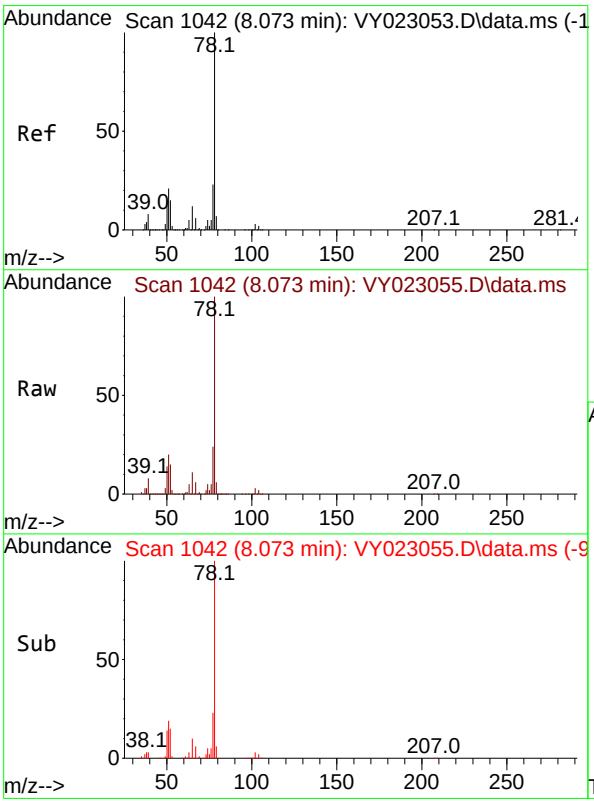
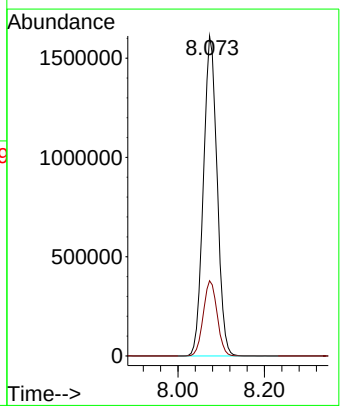
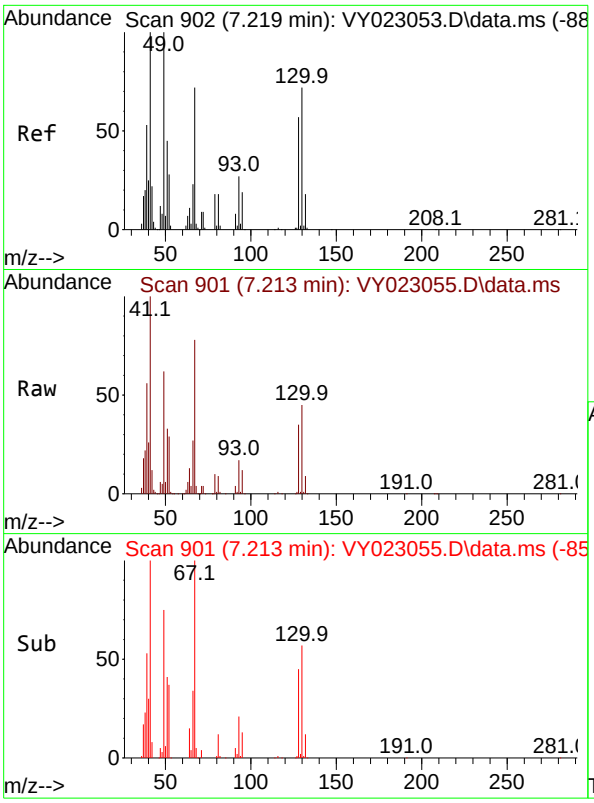


#40
Benzene
Concen: 152.720 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 78 Resp: 3533174

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0

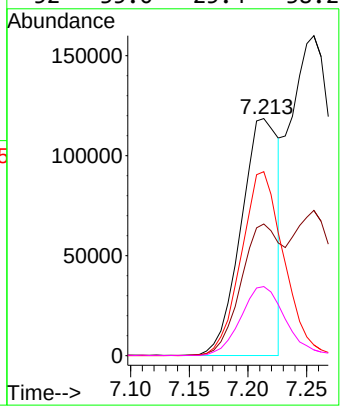




#41
Methacrylonitrile
Concen: 143.669 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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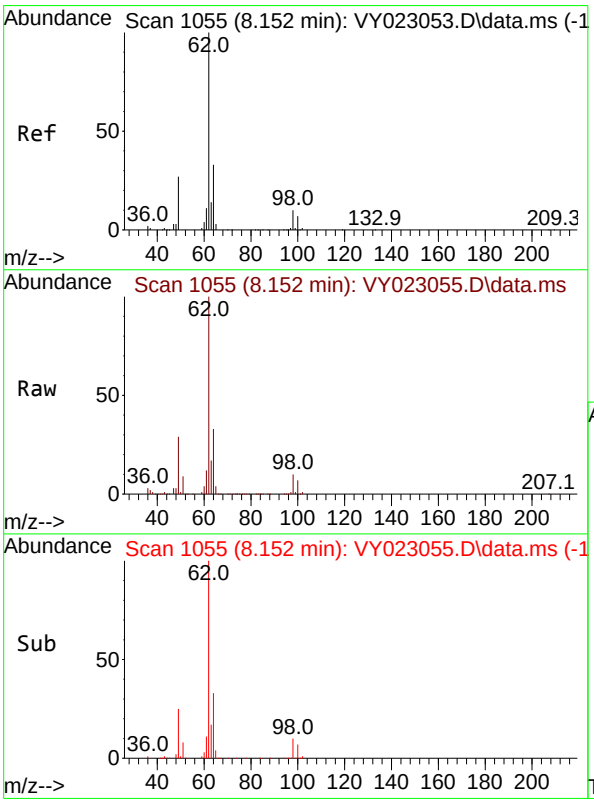
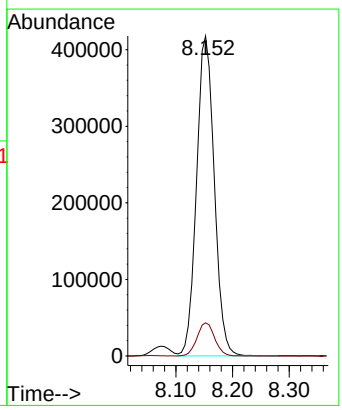
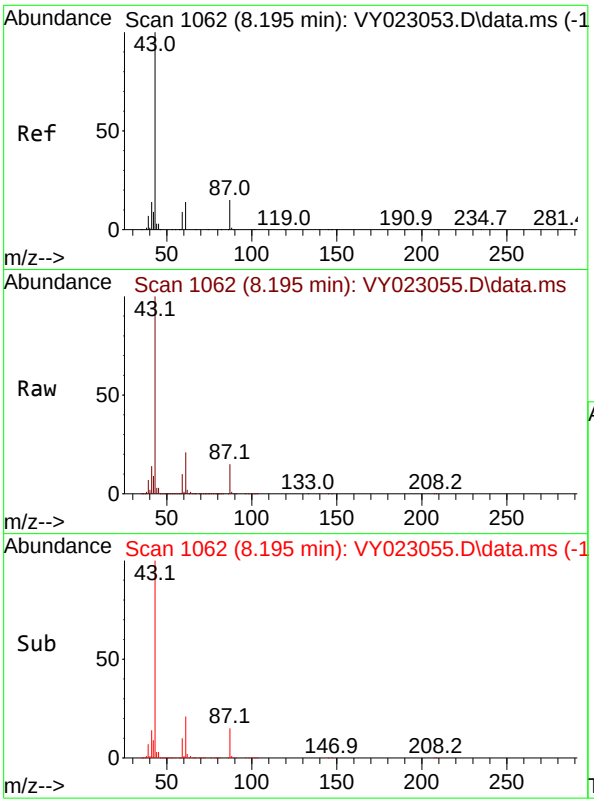


#42
1,2-Dichloroethane
Concen: 151.078 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 909030

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6

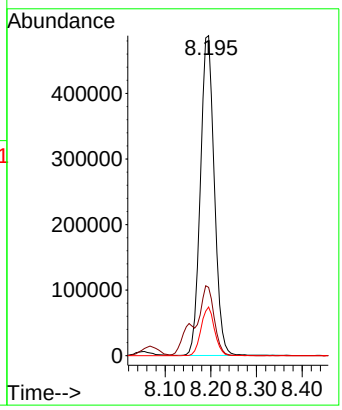




#43
Isopropyl Acetate
Concen: 161.596 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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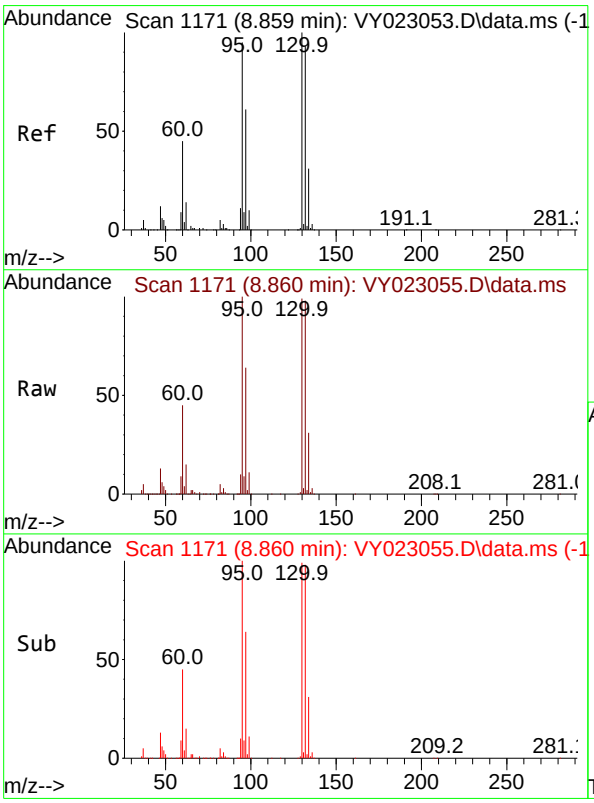
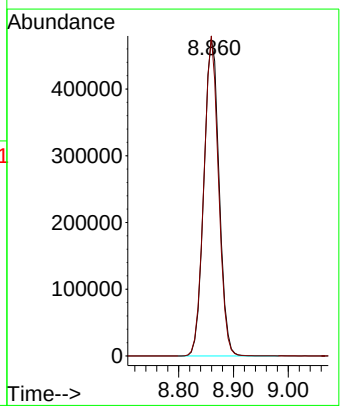
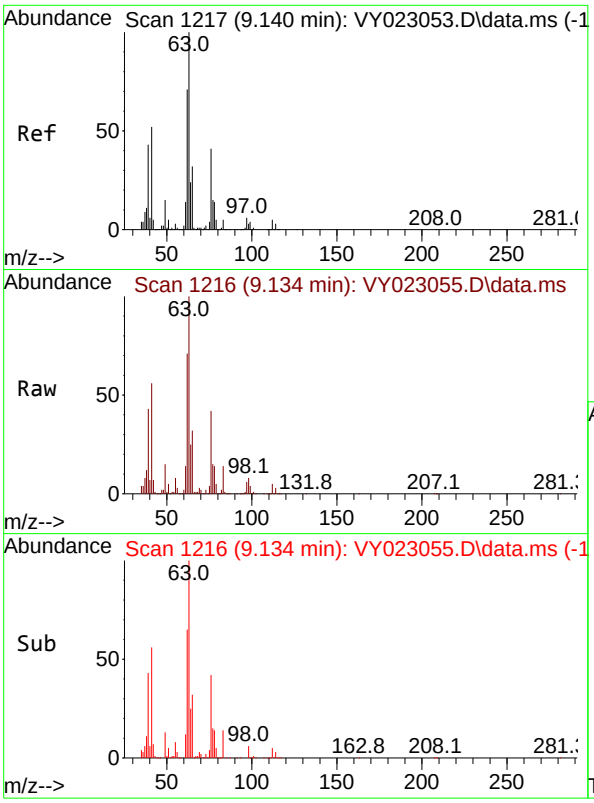


#44
Trichloroethene
Concen: 152.126 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:130 Resp: 909510

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	190.2

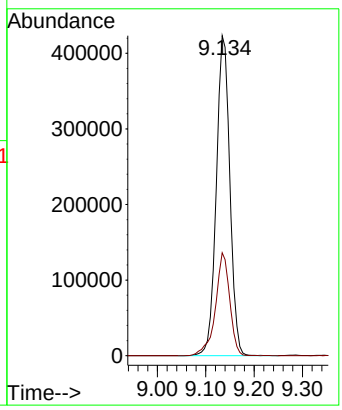




#45
1,2-Dichloropropane
Concen: 154.426 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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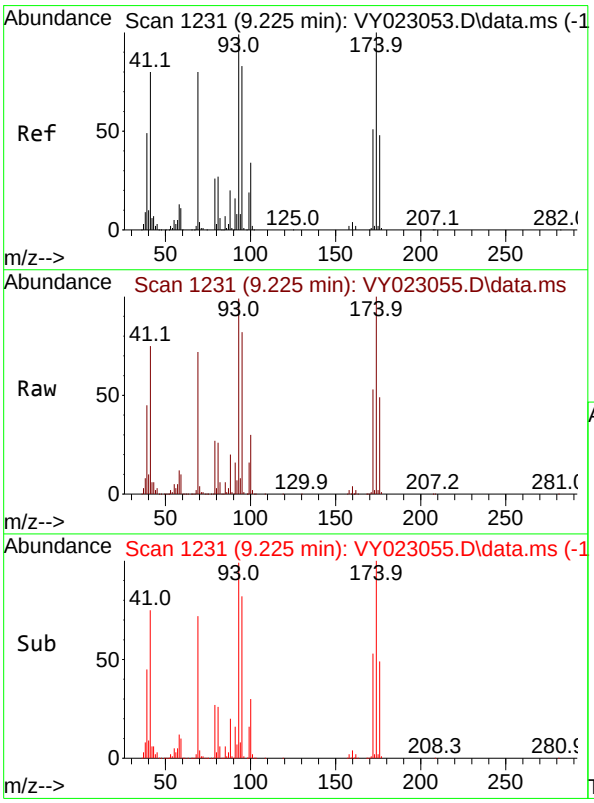
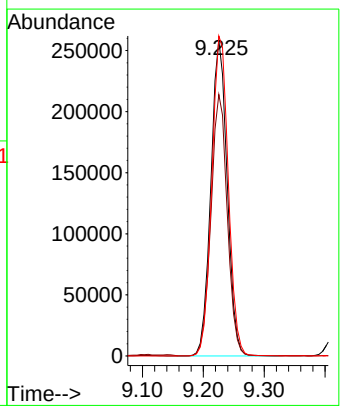
Supervised By :Semsettin Yesilyurt 08/14/2025

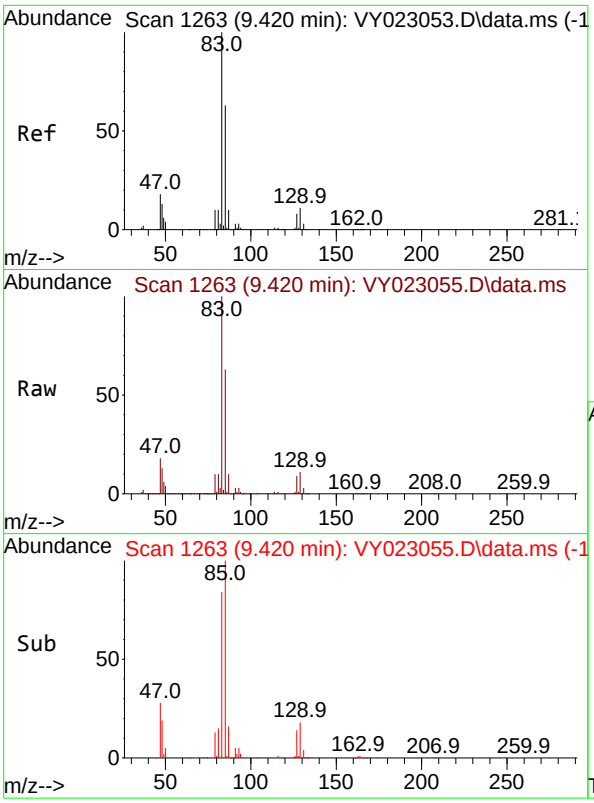


#46
Dibromomethane
Concen: 157.156 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

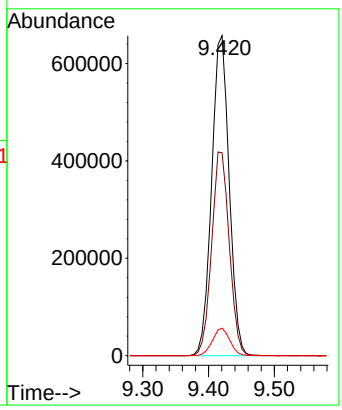




#47
Bromodichloromethane
Concen: 154.884 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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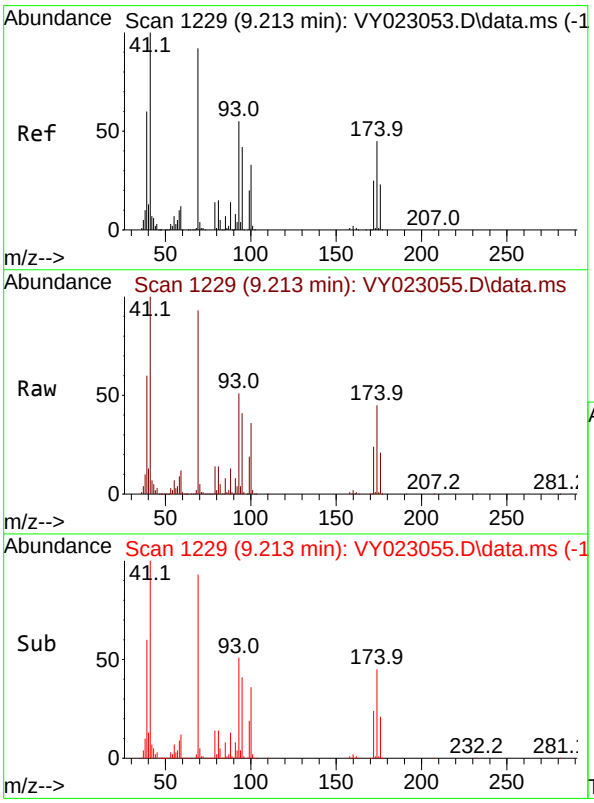
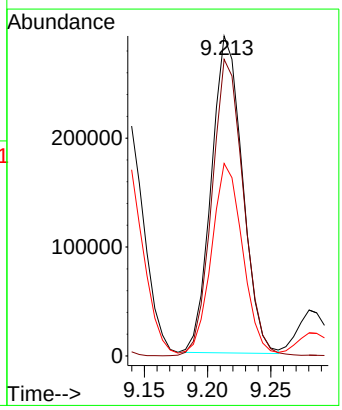
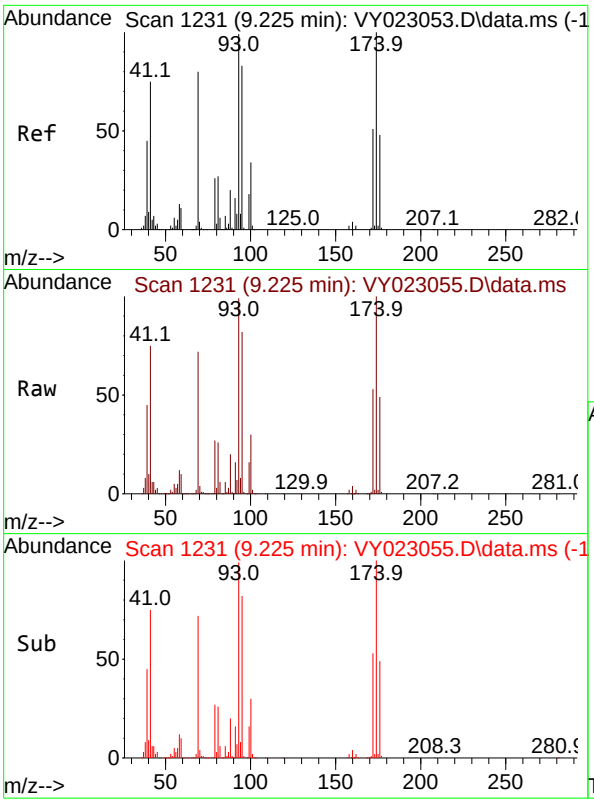


#48
Methyl methacrylate
Concen: 163.144 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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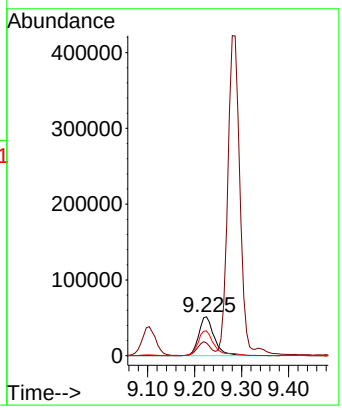
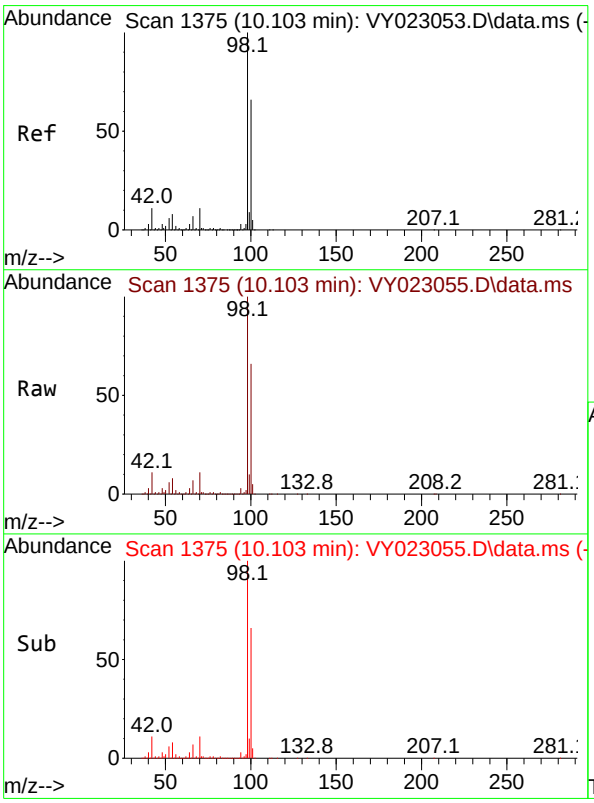
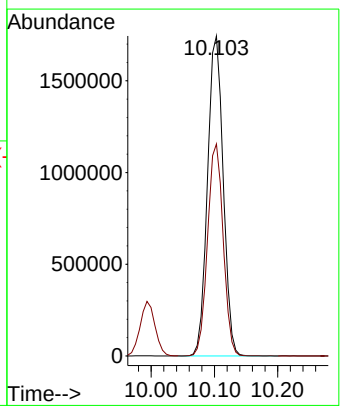


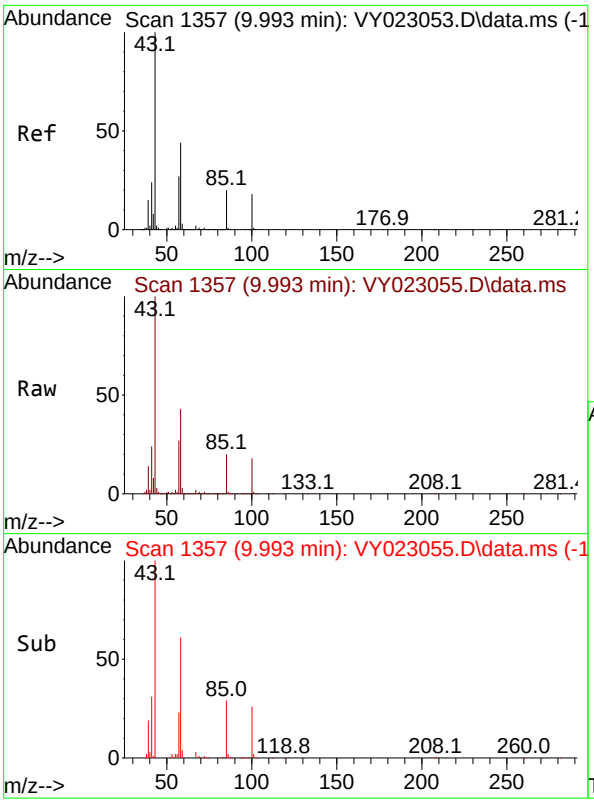


#50
Toluene-d8
Concen: 152.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 98 Resp: 3003834

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.3	78.5

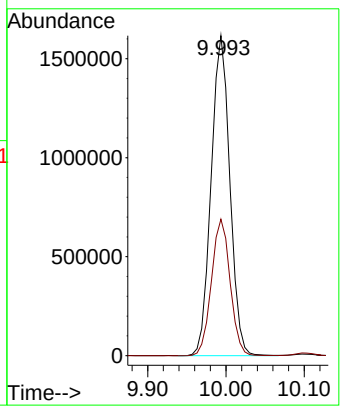




#51
4-Methyl-2-Pentanone
Concen: 814.509 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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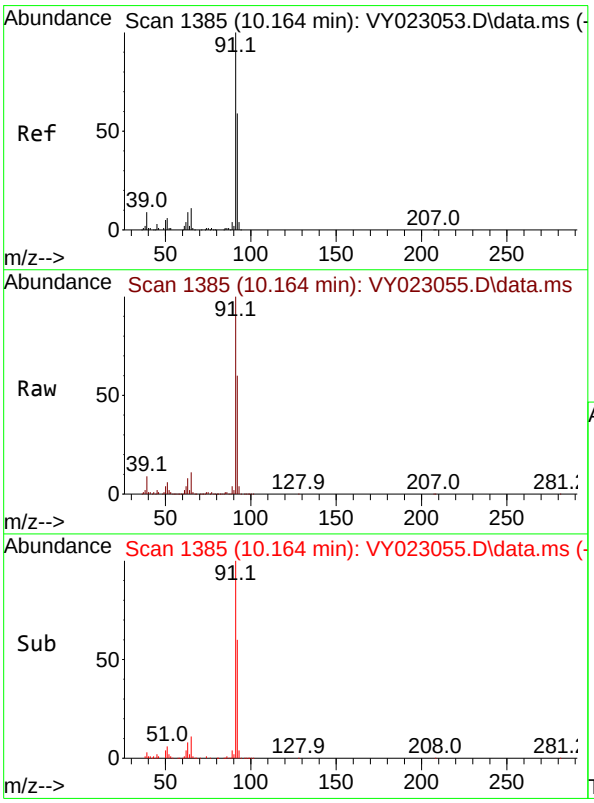
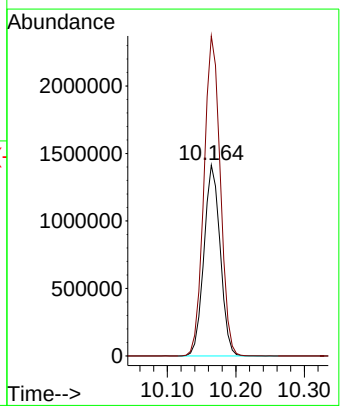
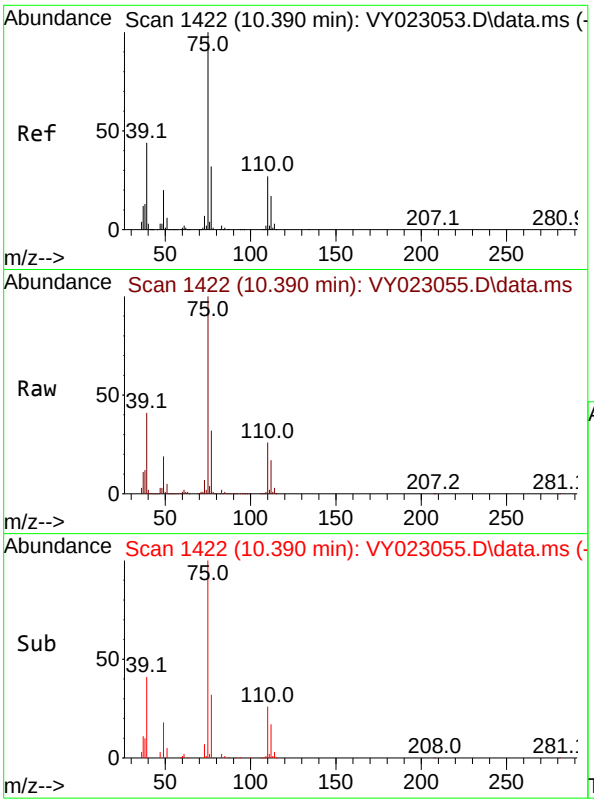


#52
Toluene
Concen: 158.762 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 92 Resp: 2332797

Ion	Ratio	Lower	Upper
92	100		
91	168.8	136.4	204.6

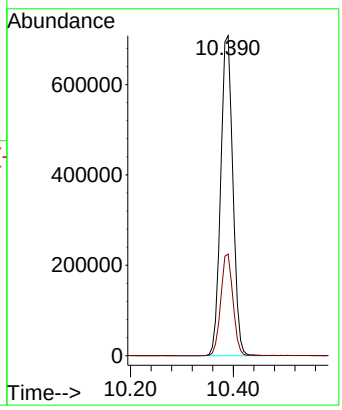




#53
t-1,3-Dichloropropene
Concen: 163.355 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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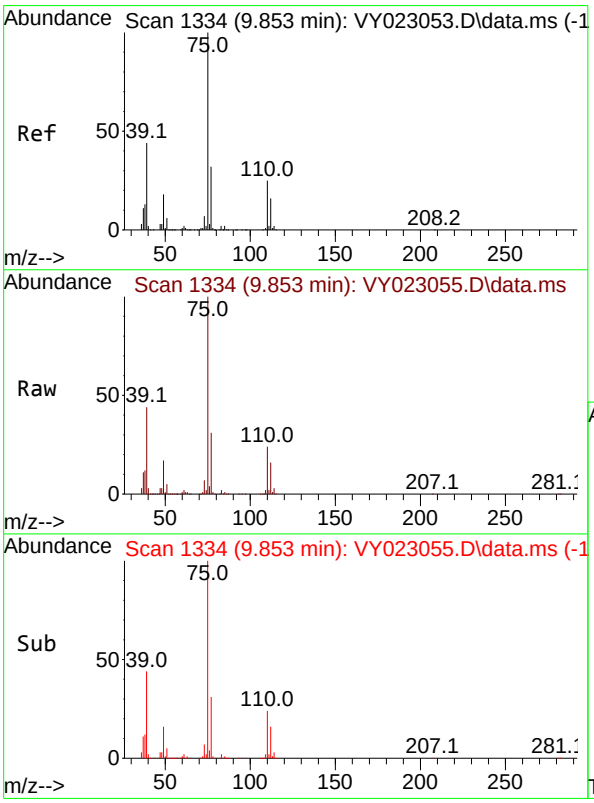
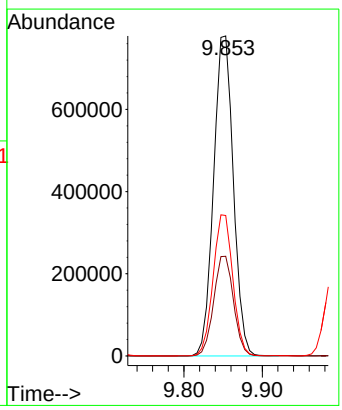
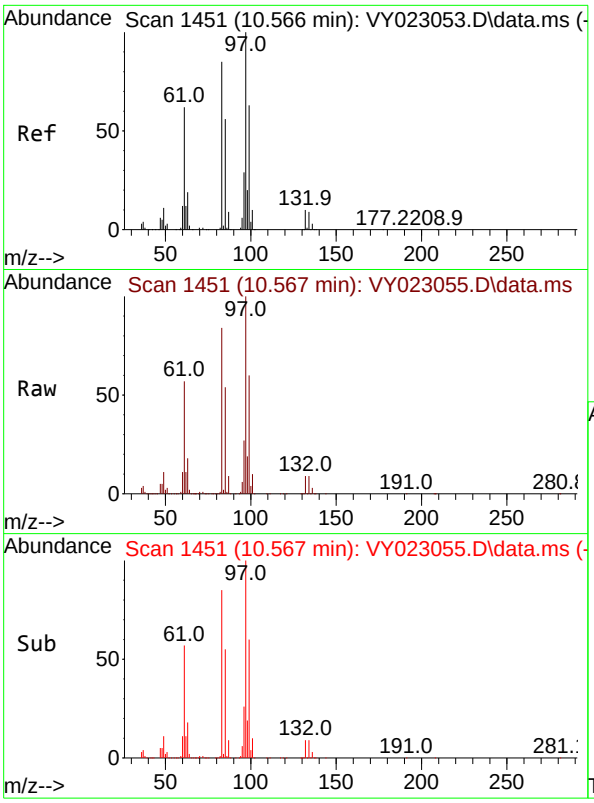


#54
cis-1,3-Dichloropropene
Concen: 162.359 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

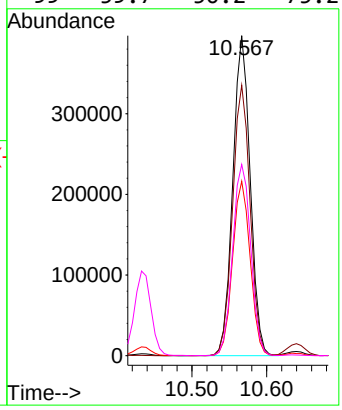




#55
1,1,2-Trichloroethane
Concen: 157.090 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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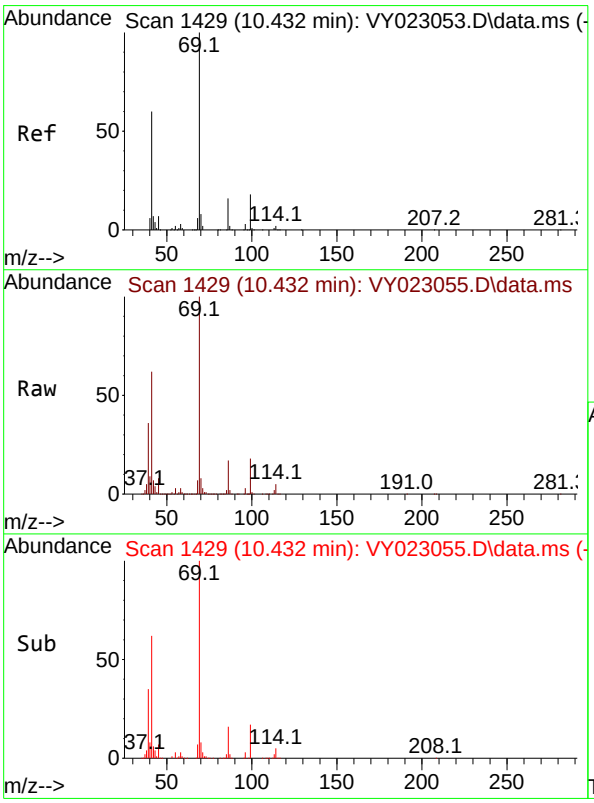
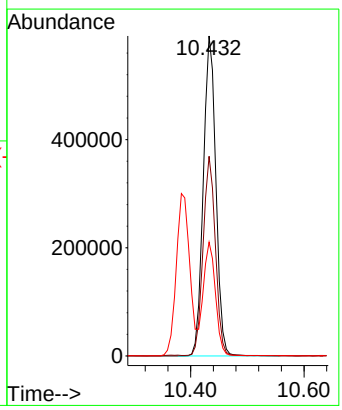
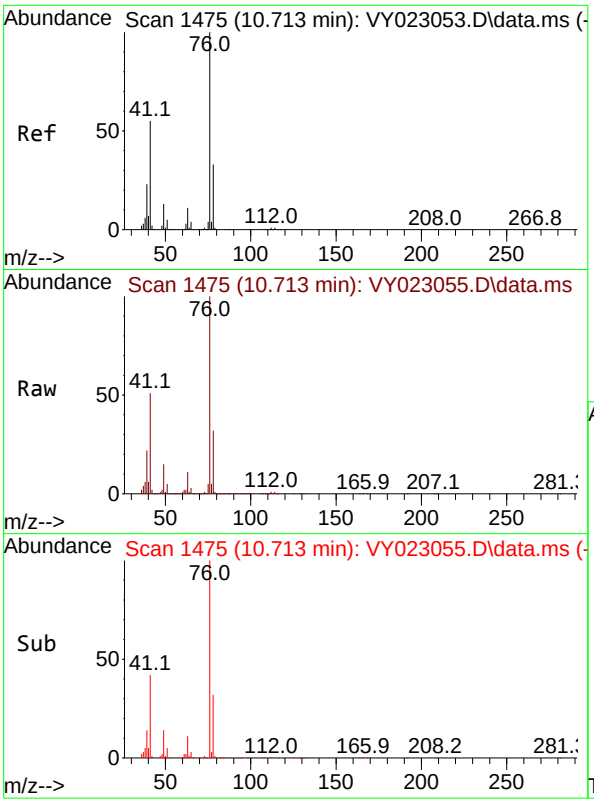


#56
Ethyl methacrylate
Concen: 173.693 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

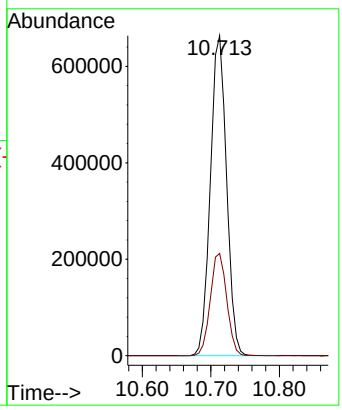




#57
1,3-Dichloropropane
Concen: 156.818 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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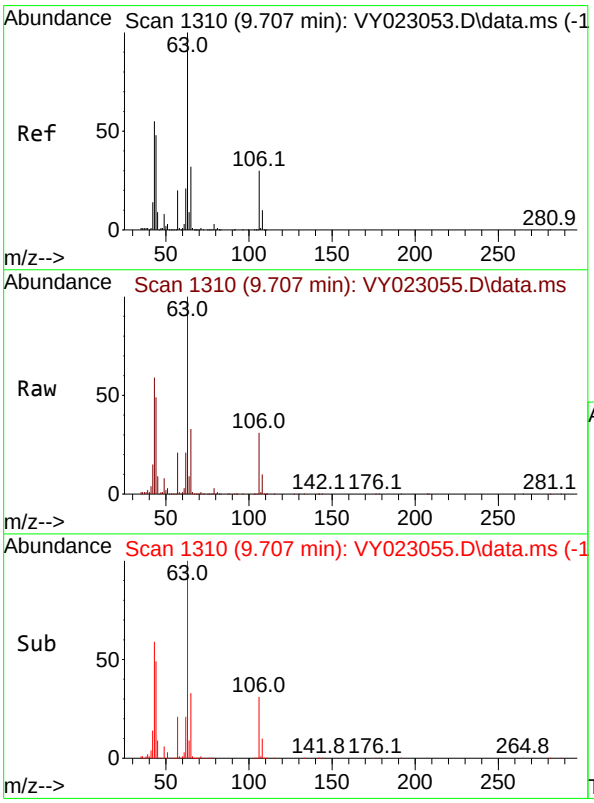
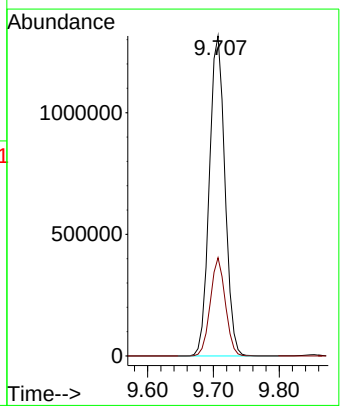
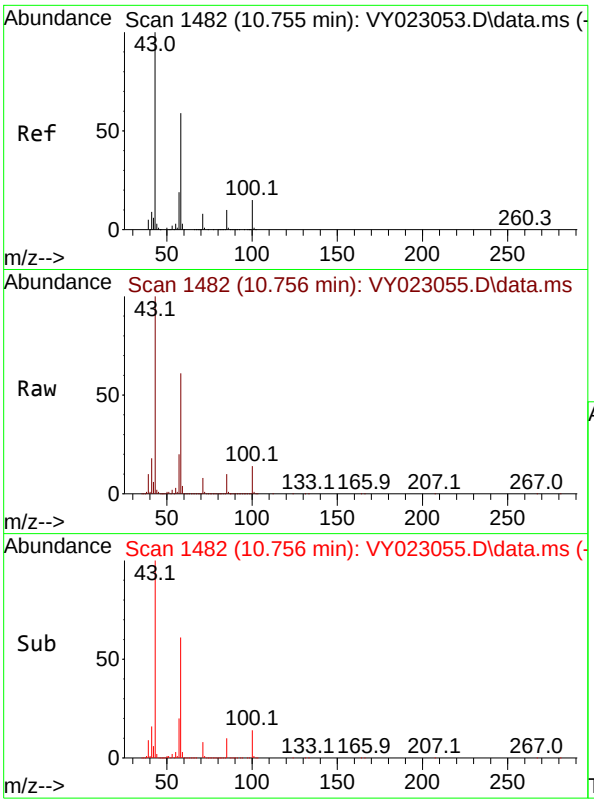


#58
2-Chloroethyl Vinyl ether
Concen: 878.488 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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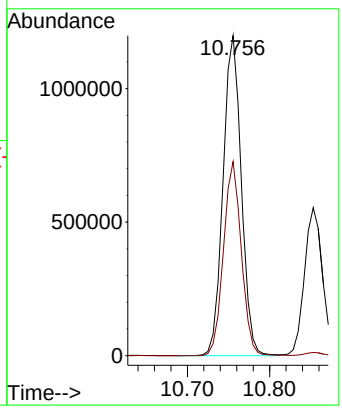
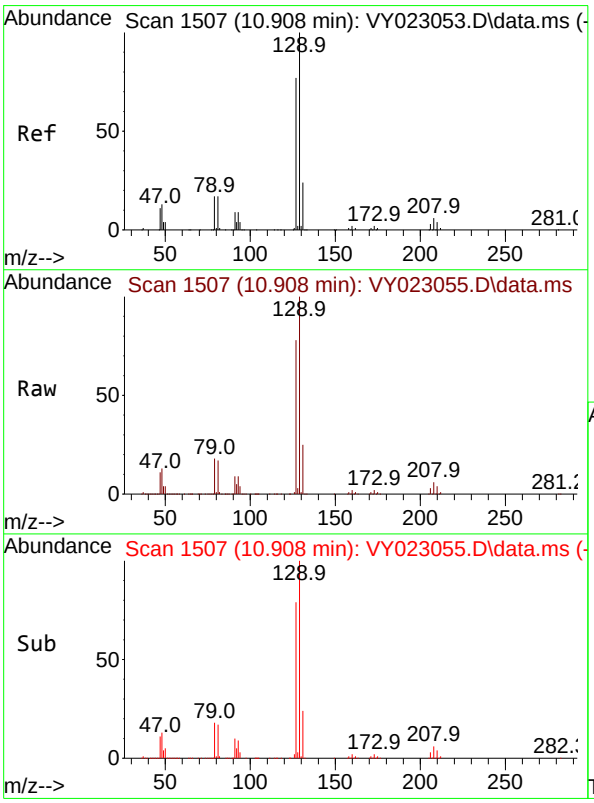
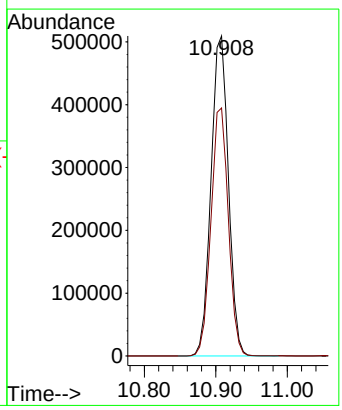


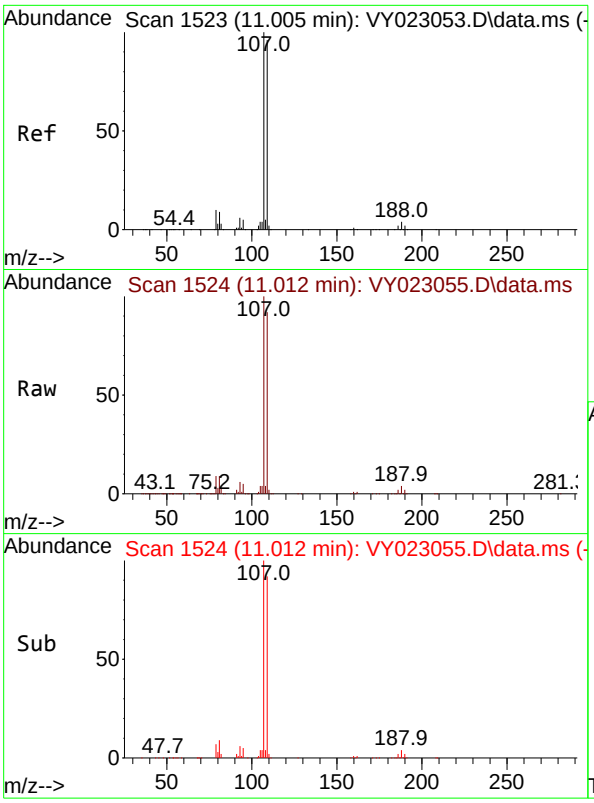


#60
Dibromochloromethane
Concen: 159.454 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

Manual Integrations
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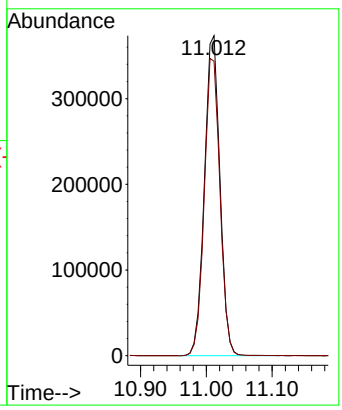
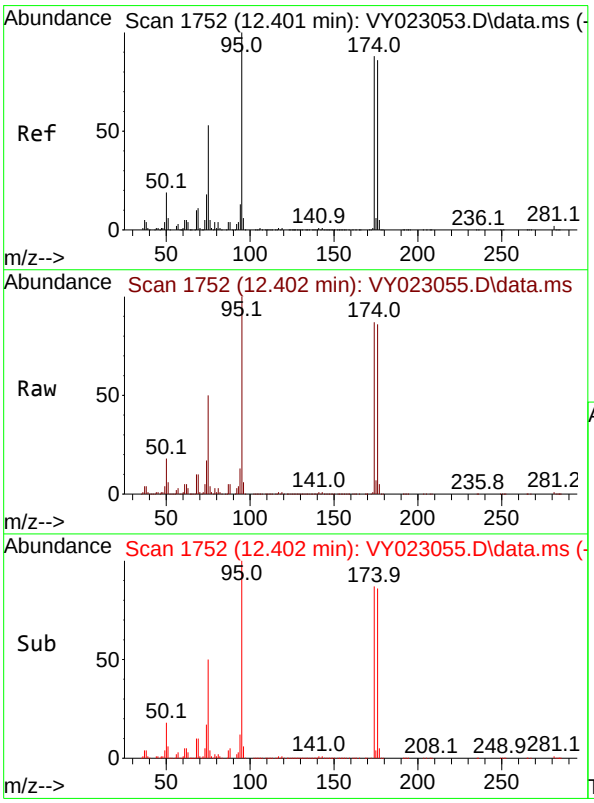
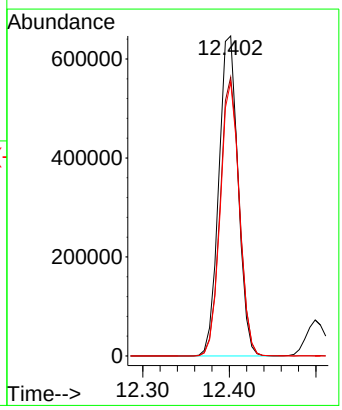


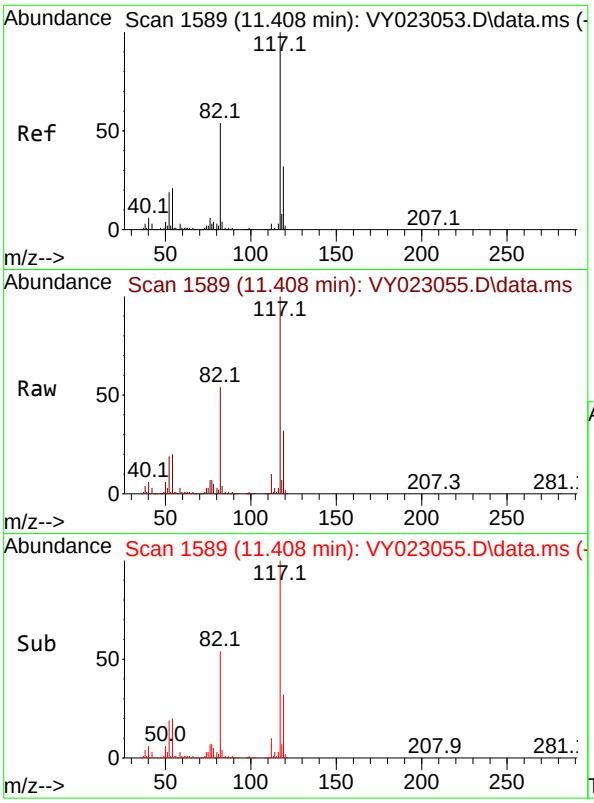


#62
4-Bromofluorobenzene
Concen: 157.326 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

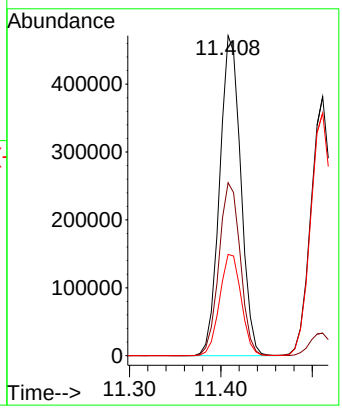




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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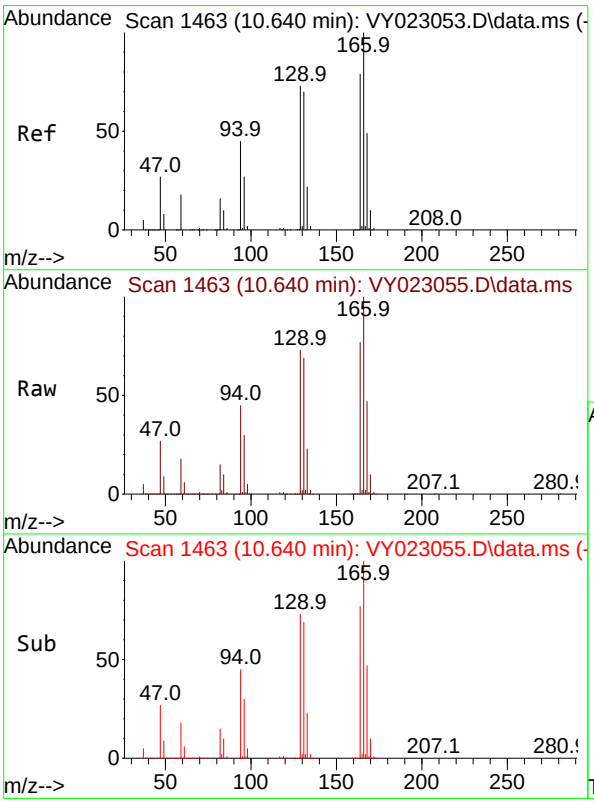
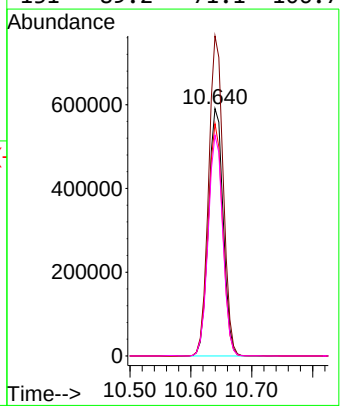
Supervised By :Semsettin Yesilyurt 08/14/2025

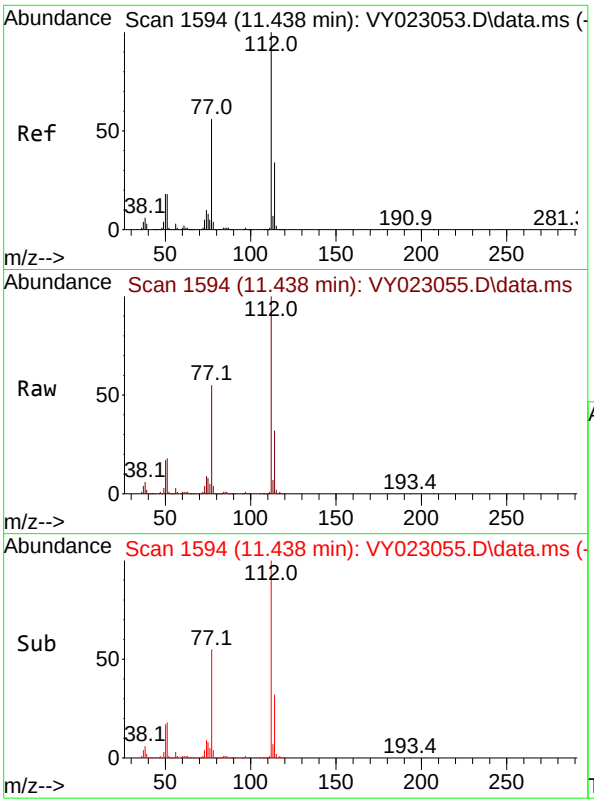


#64
Tetrachloroethene
Concen: 146.682 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

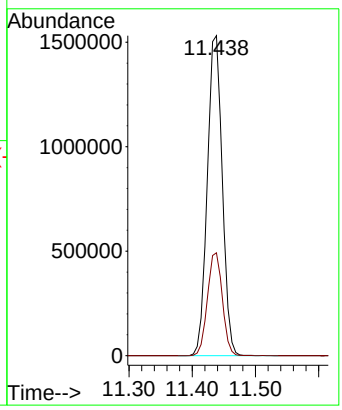




#65
Chlorobenzene
Concen: 154.514 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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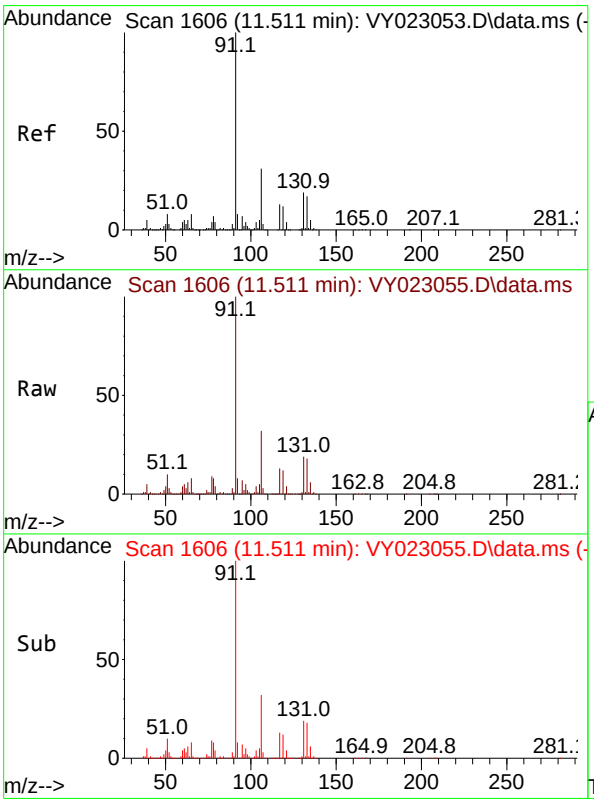
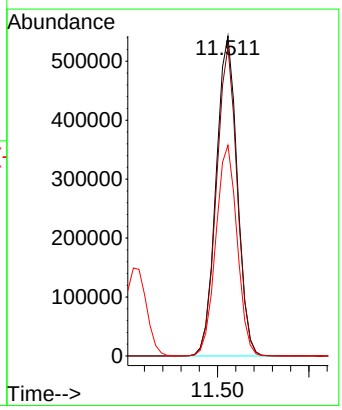
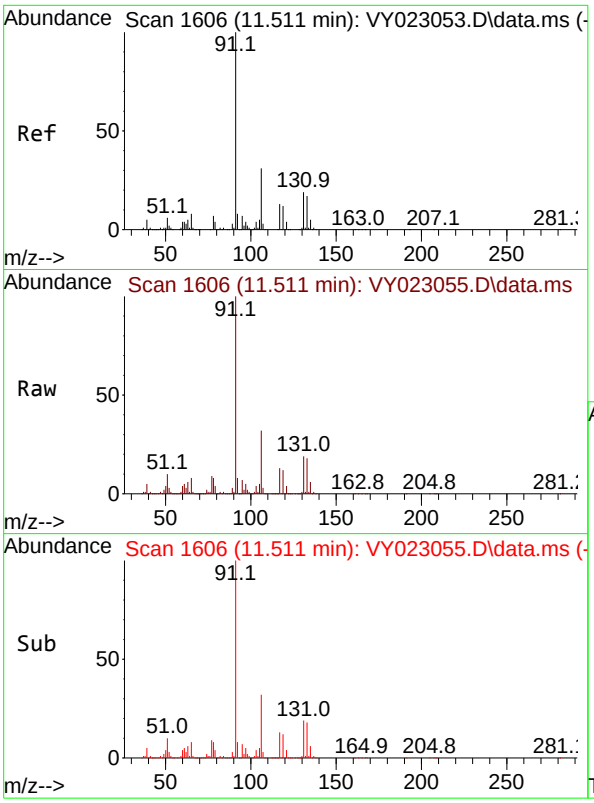


#66
1,1,1,2-Tetrachloroethane
Concen: 157.304 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

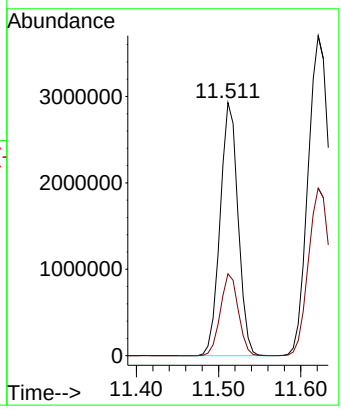




#67
Ethyl Benzene
Concen: 158.093 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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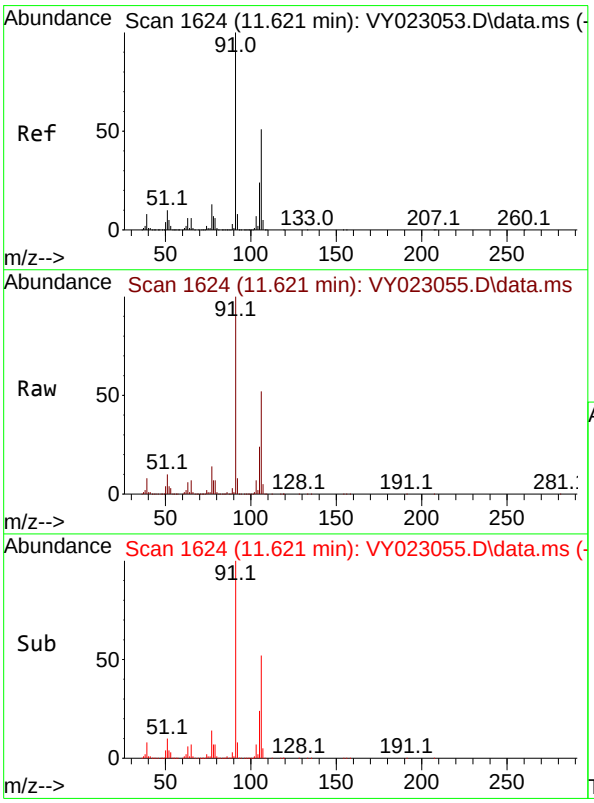
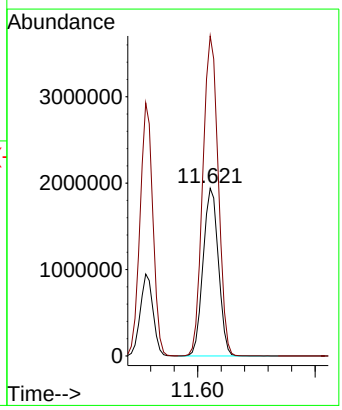
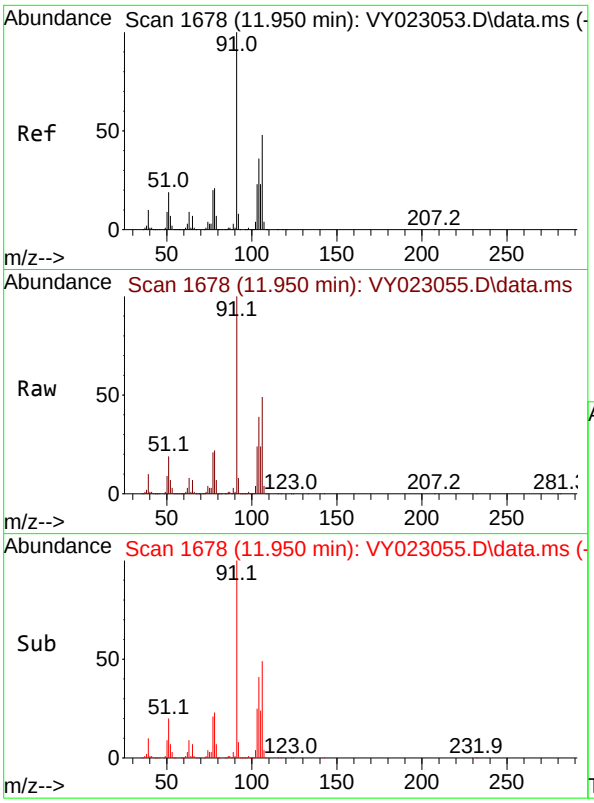


#68
m/p-Xylenes
Concen: 320.251 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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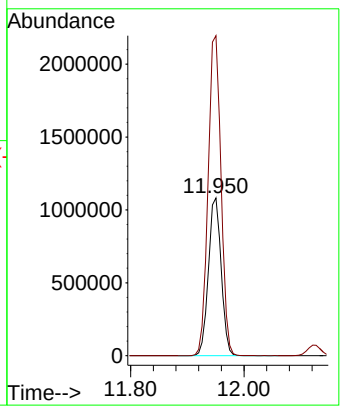
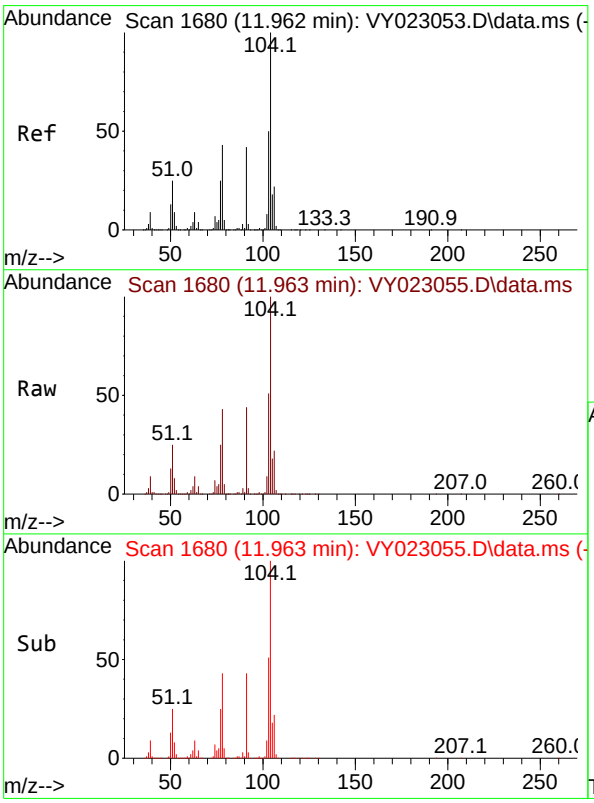
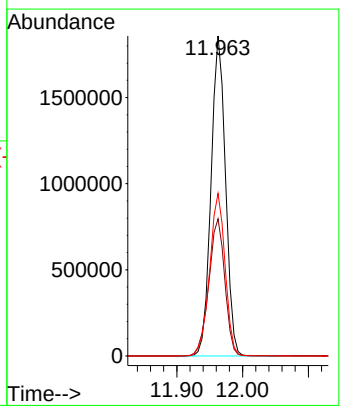


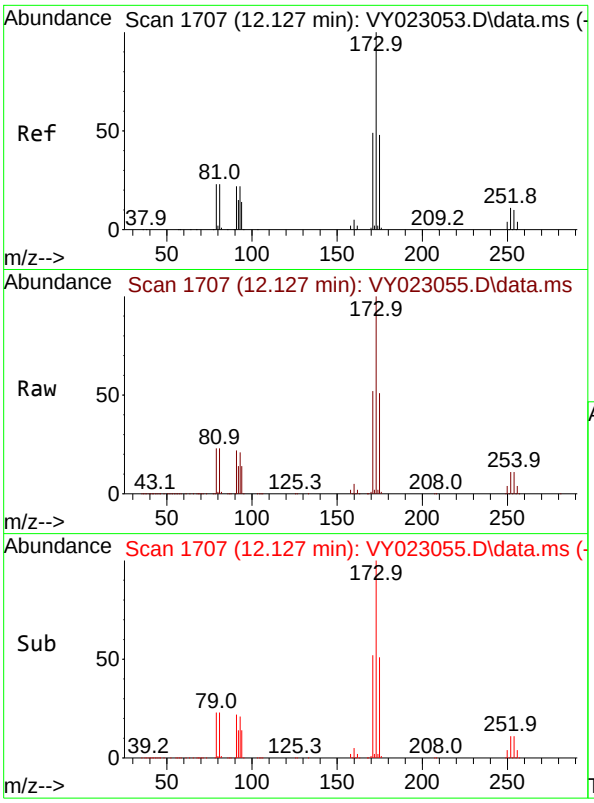


#70
Styrene
Concen: 169.475 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

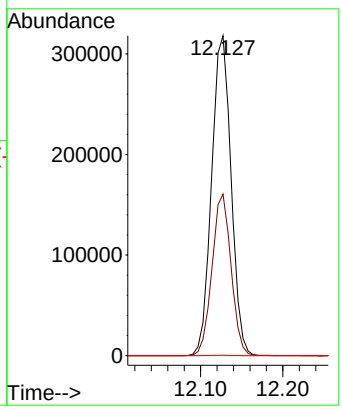




#71
Bromoform
Concen: 161.778 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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 :
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ClientSampleId :
VSTDICC150

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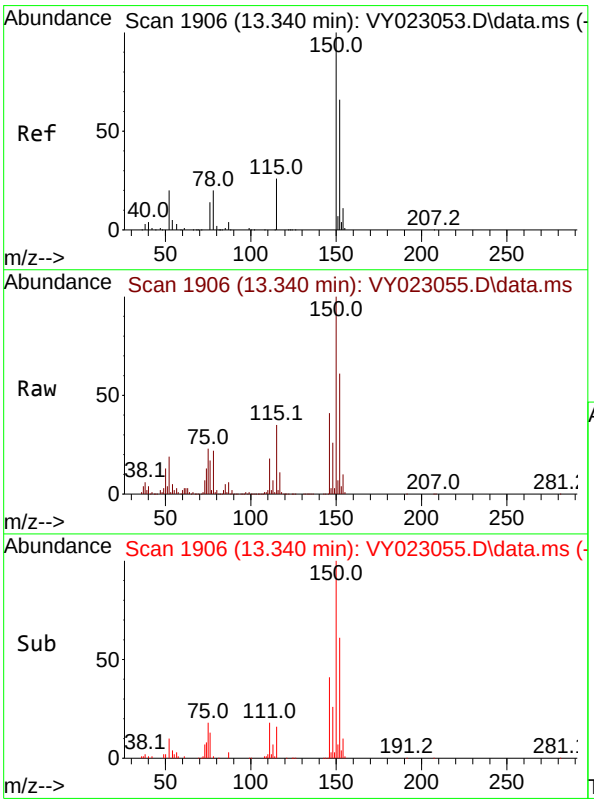
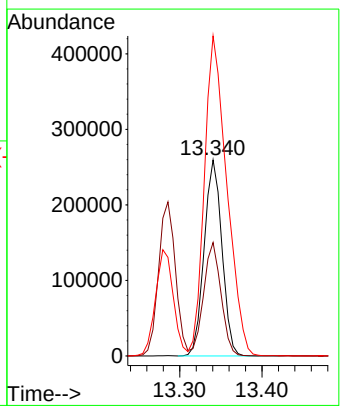
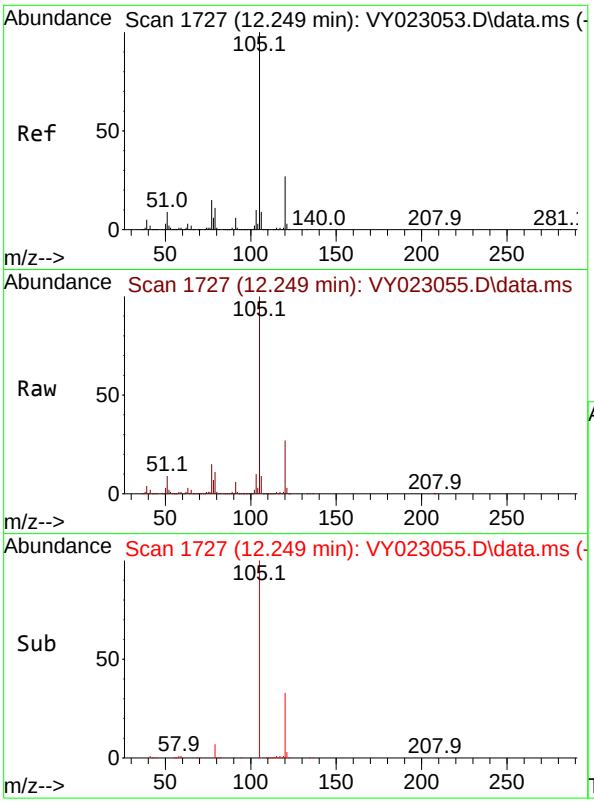


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

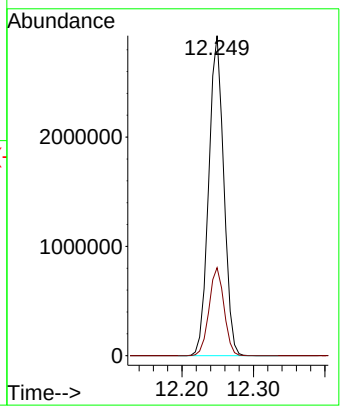




#73
Isopropylbenzene
Concen: 155.145 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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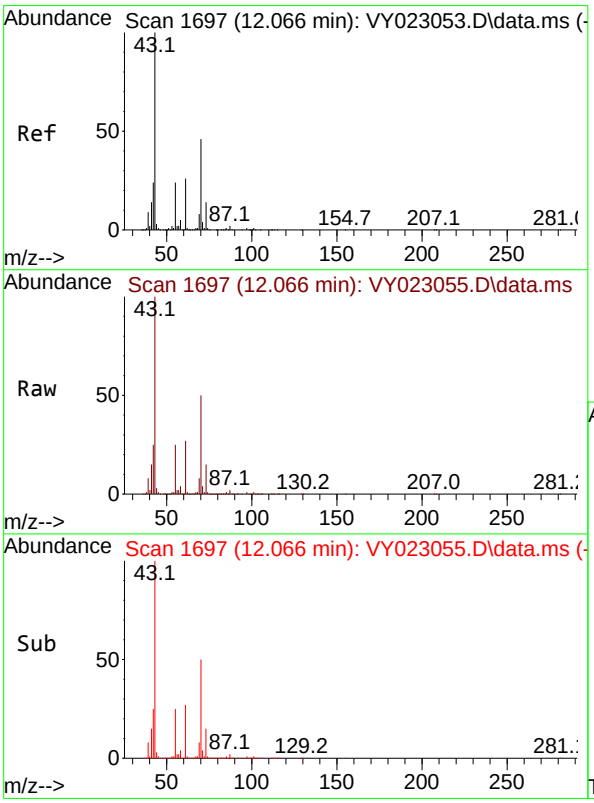
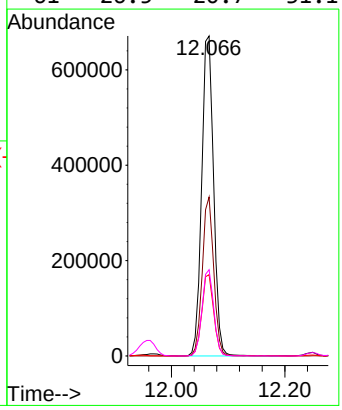
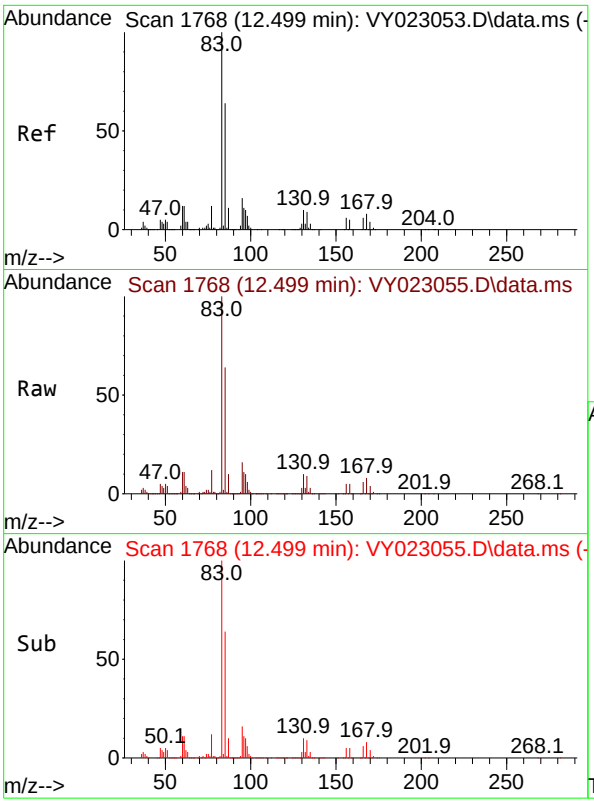


#74
N-amyl acetate
Concen: 168.265 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

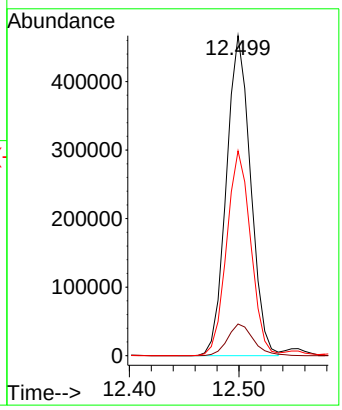




#75
1,1,2,2-Tetrachloroethane
Concen: 152.686 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

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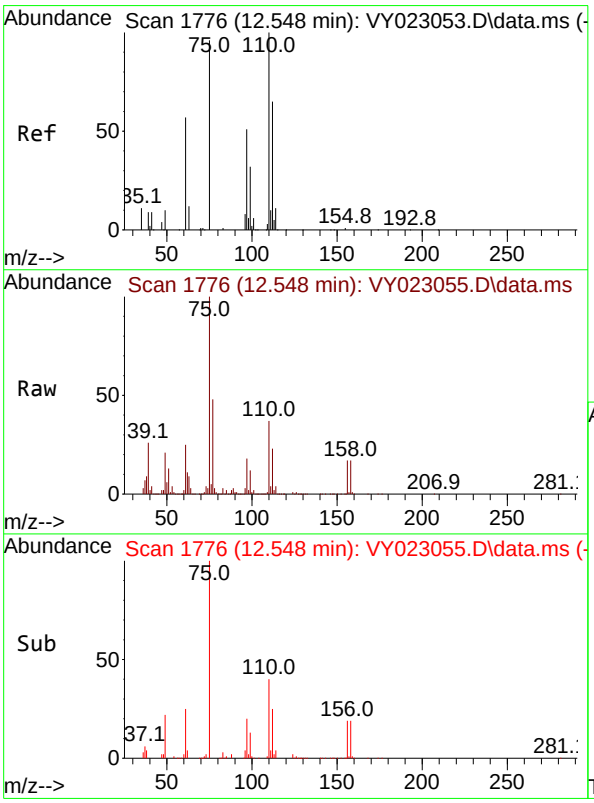
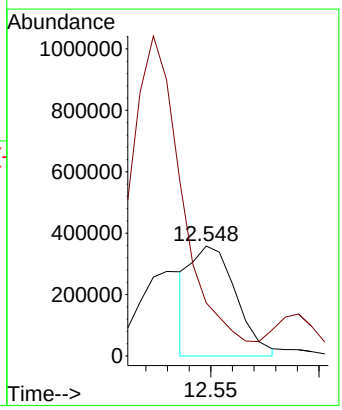
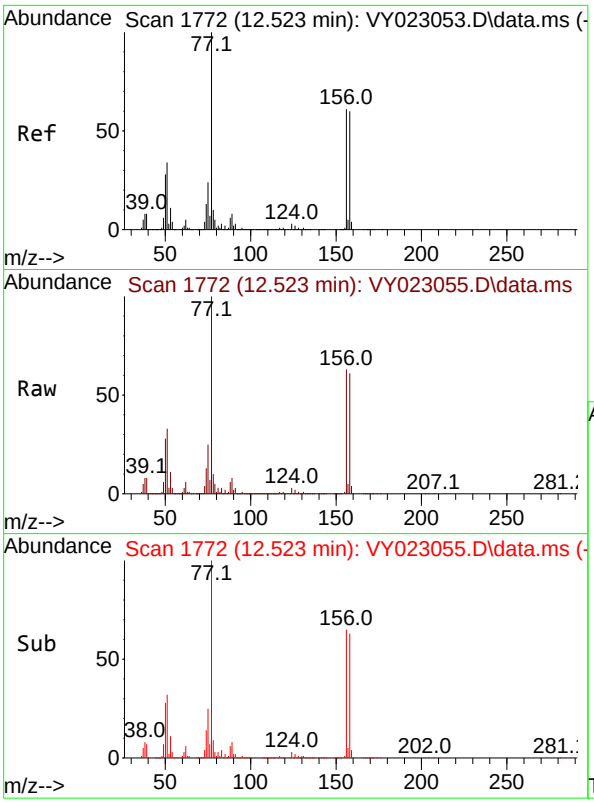


#76
1,2,3-Trichloropropane
Concen: 137.890 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 519276

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

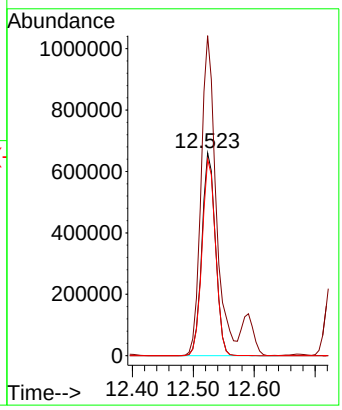




#77
Bromobenzene
Concen: 155.568 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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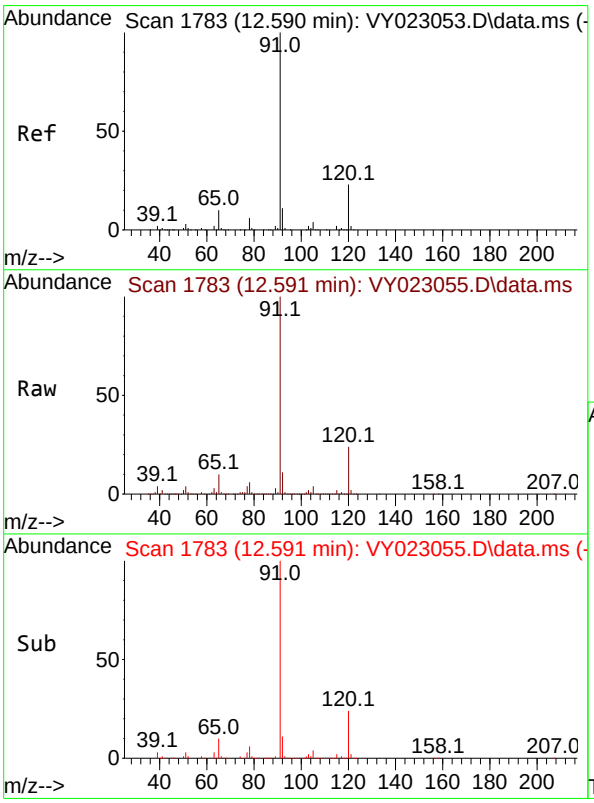
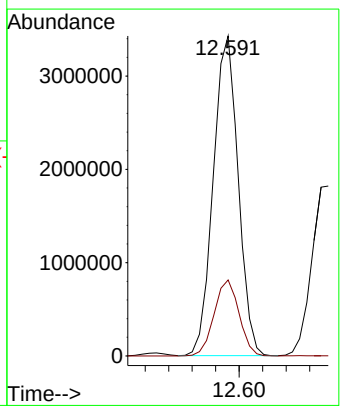
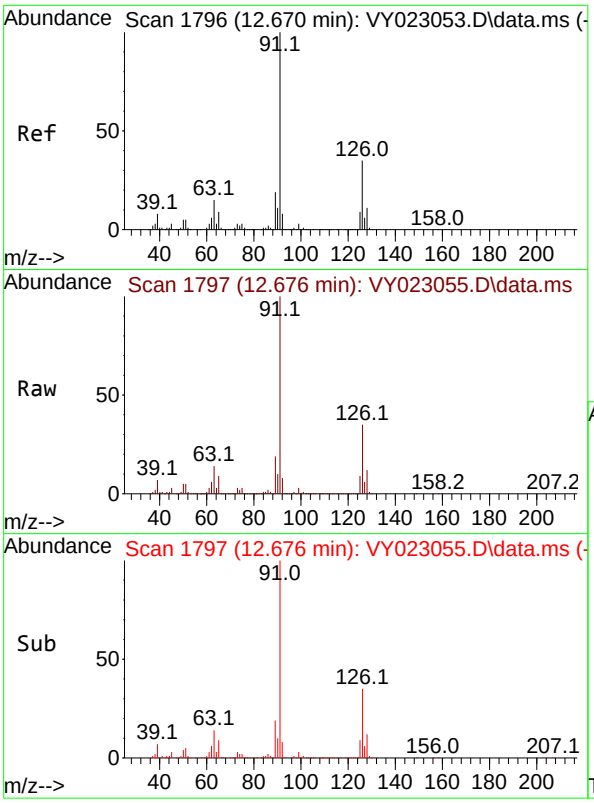


#78
n-propylbenzene
Concen: 154.058 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 5048012

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.5	34.5

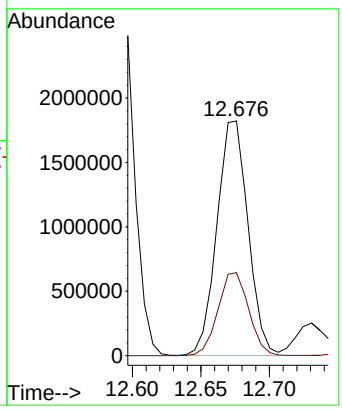




#79
2-Chlorotoluene
Concen: 153.331 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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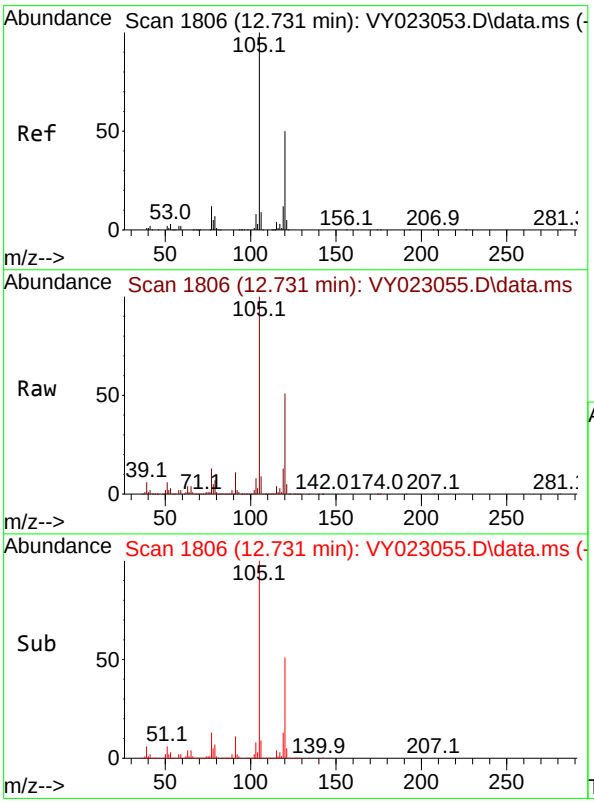
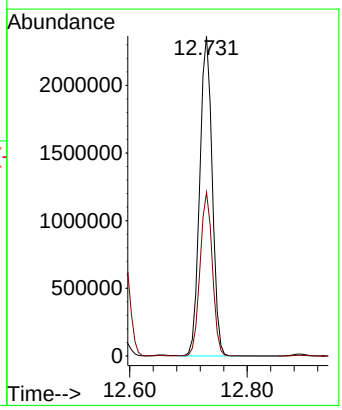
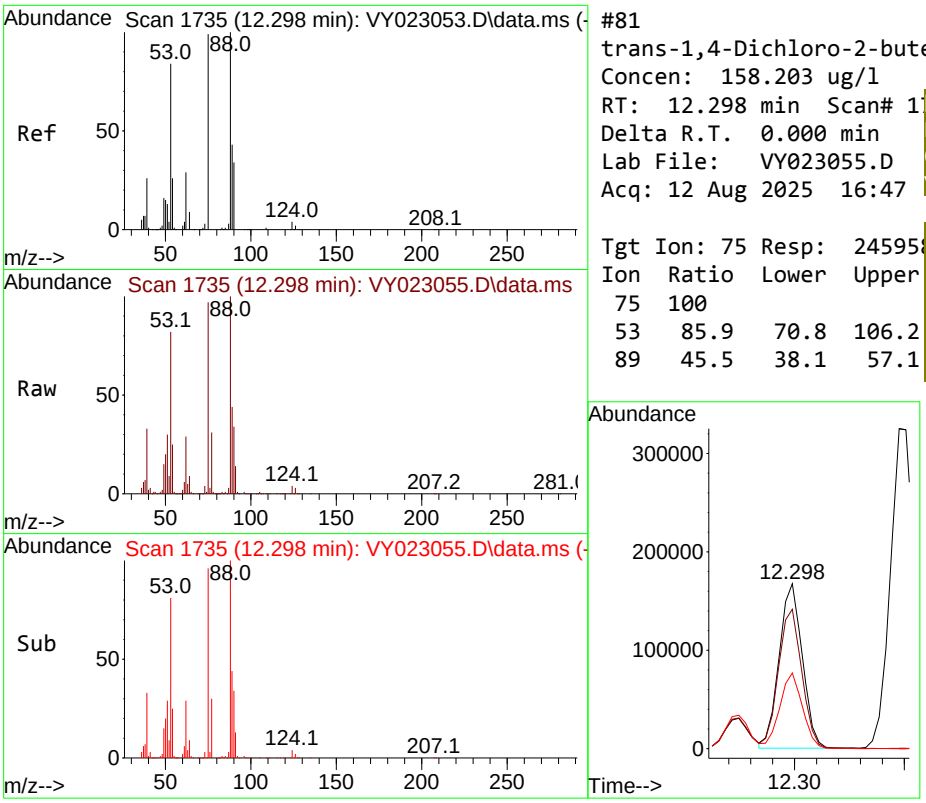


#80
1,3,5-Trimethylbenzene
Concen: 155.973 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

Manual Integrations
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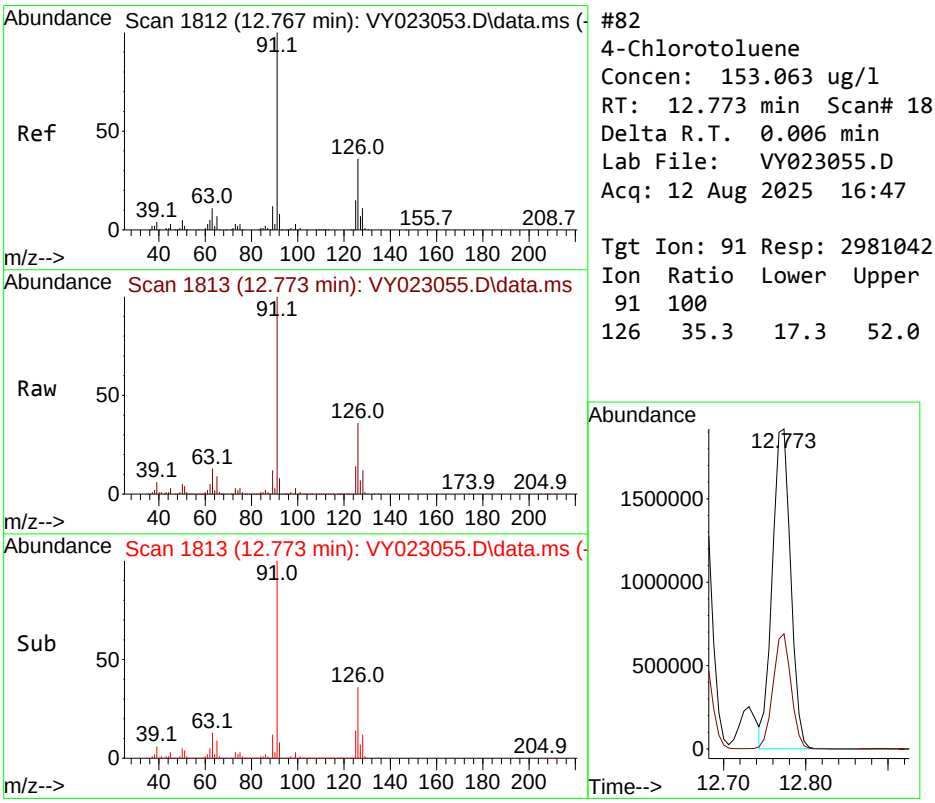
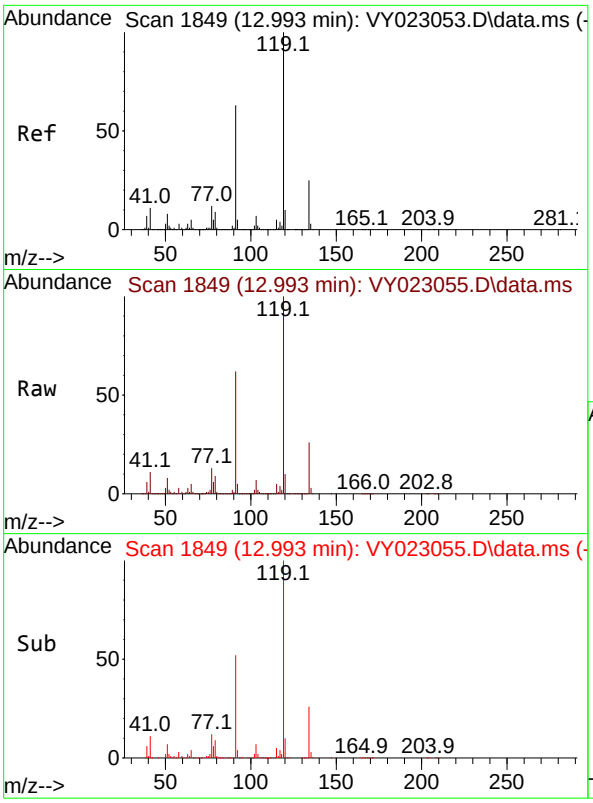


#82
4-Chlorotoluene
Concen: 153.063 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 2981042

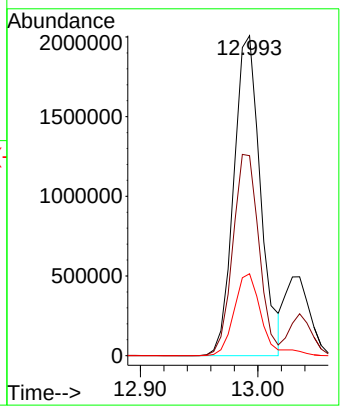
Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.3	52.0



#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

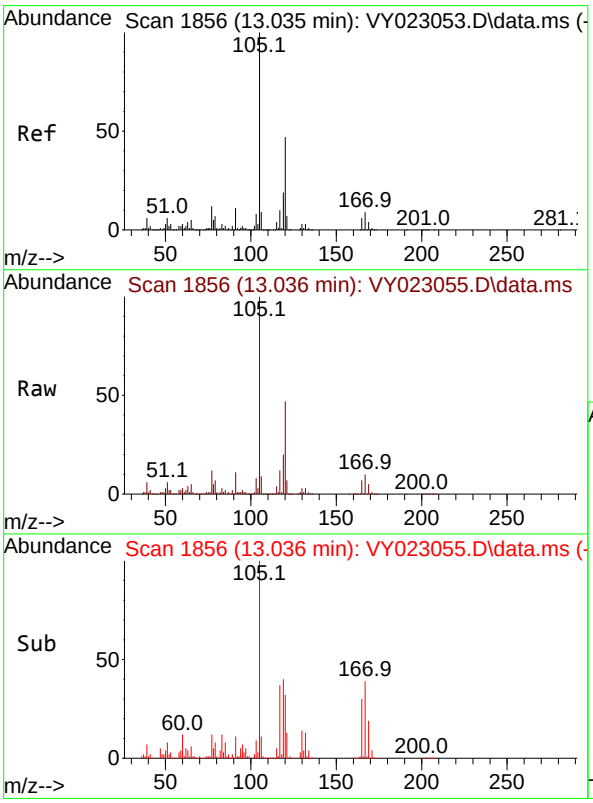
Ion	Ratio	Lower	Upper
119	100		
91	62.0	31.6	94.8
134	26.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

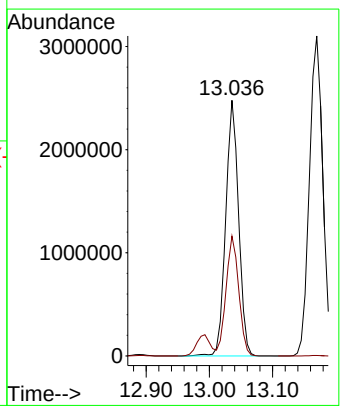
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

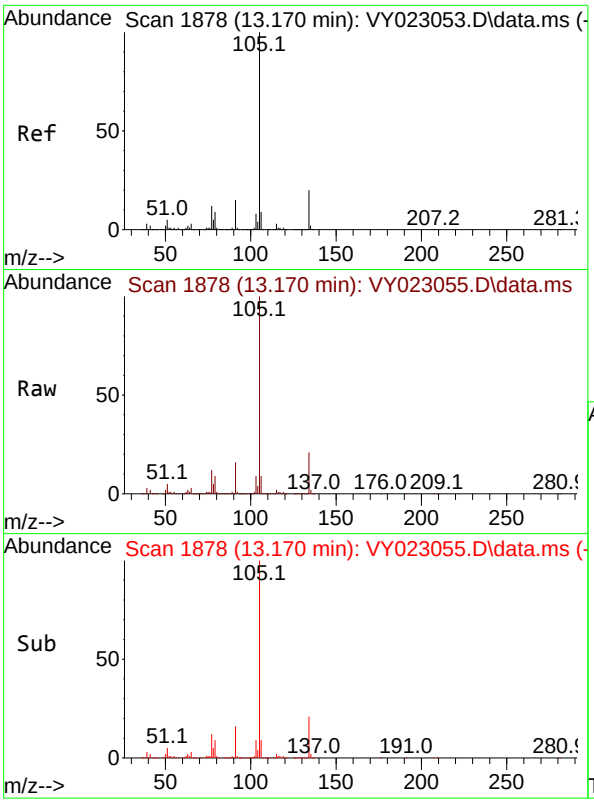


#84
1,2,4-Trimethylbenzene
Concen: 158.143 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3501626

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0

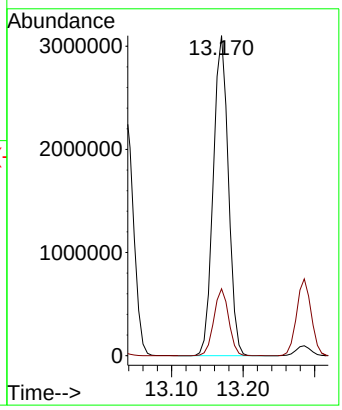




#85
sec-Butylbenzene
Concen: 153.897 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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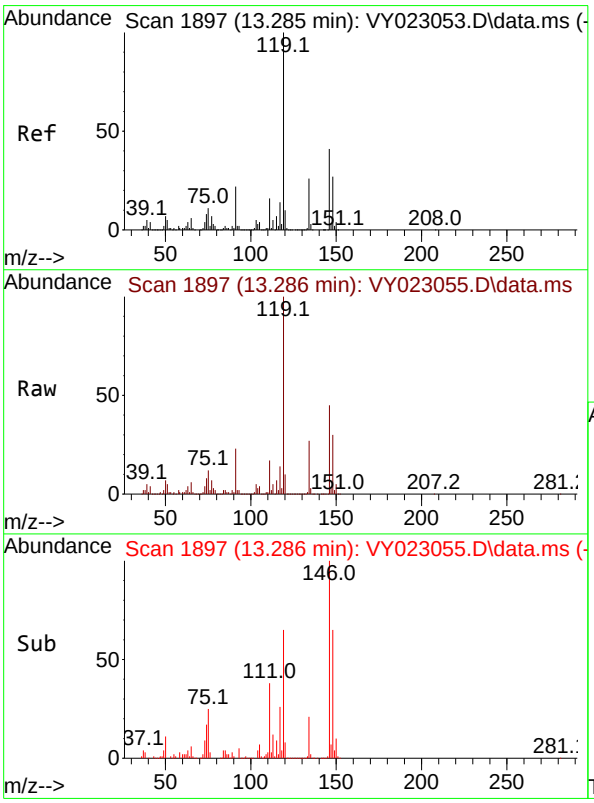
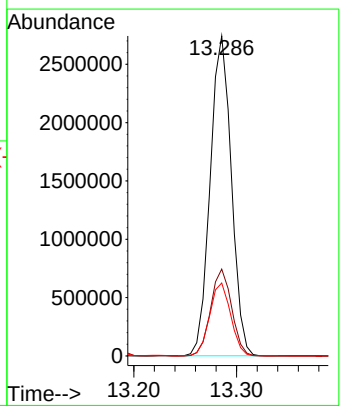
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

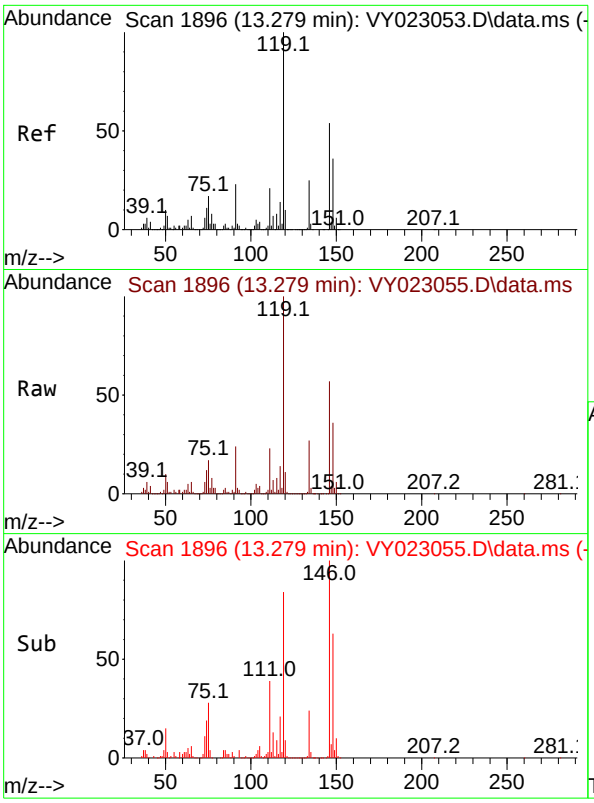


#86
p-Isopropyltoluene
Concen: 159.987 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

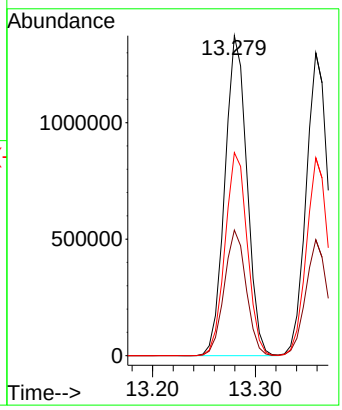




#87
1,3-Dichlorobenzene
Concen: 158.251 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

Manual Integrations
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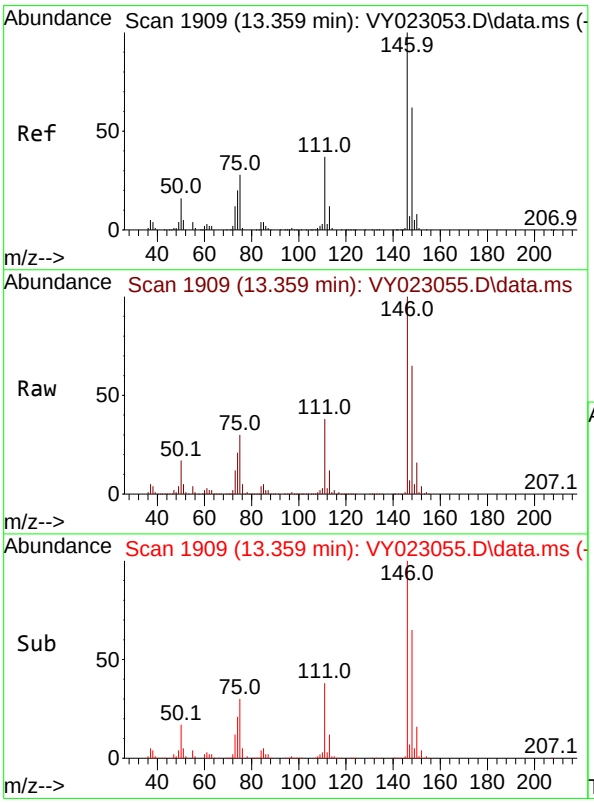
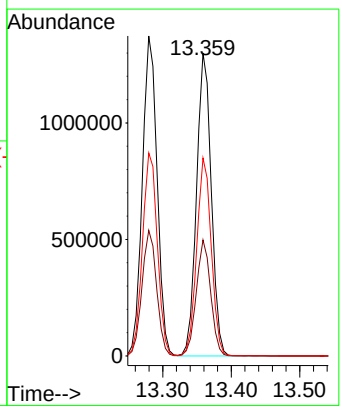
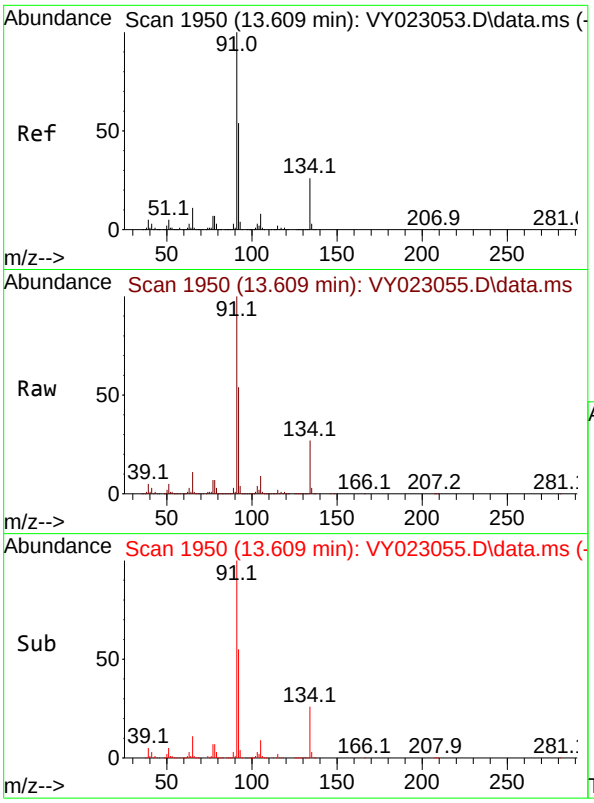


#88
1,4-Dichlorobenzene
Concen: 151.172 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

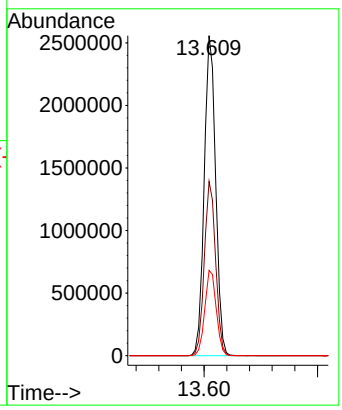




#89
n-Butylbenzene
Concen: 159.048 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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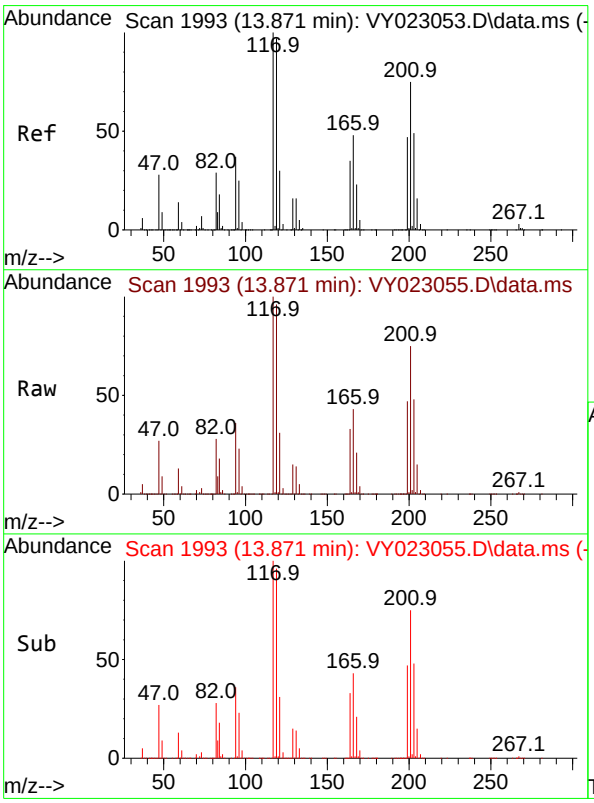
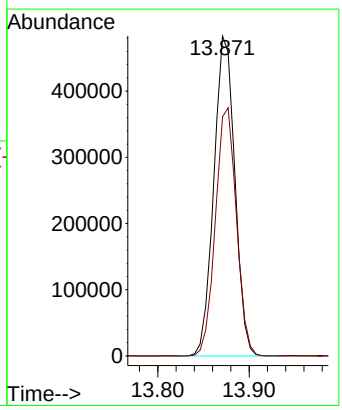
Supervised By :Semsettin Yesilyurt 08/14/2025

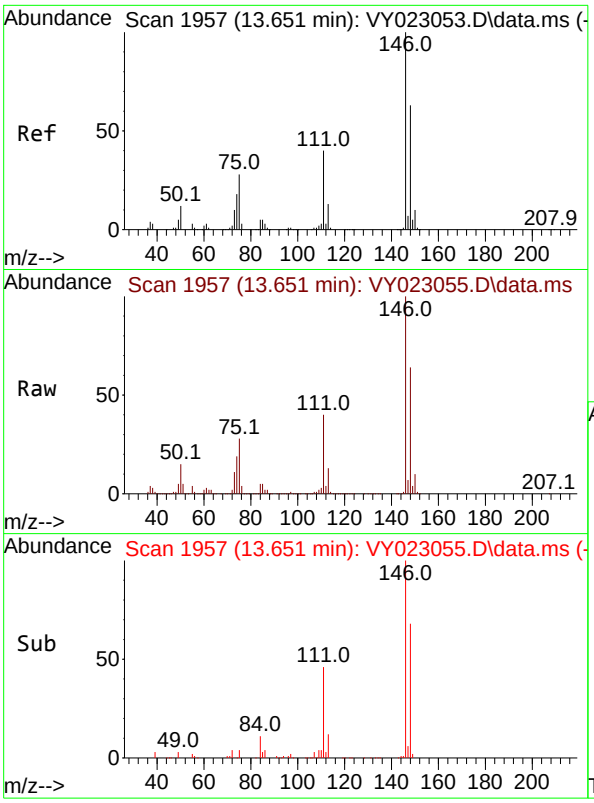


#90
Hexachloroethane
Concen: 154.073 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 772603

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1

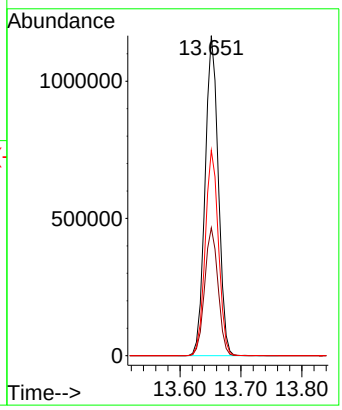




#91
1,2-Dichlorobenzene
Concen: 154.469 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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Reviewed By :Mahesh Dadoda 08/14/2025
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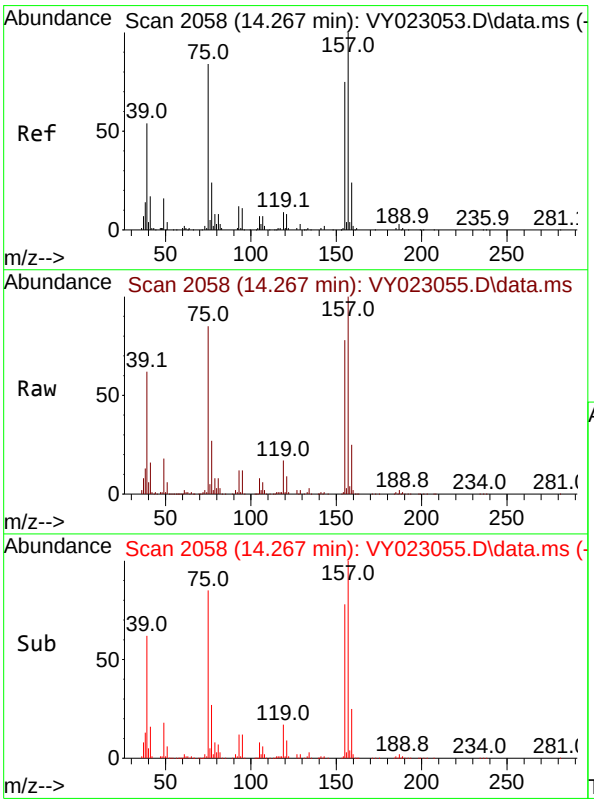
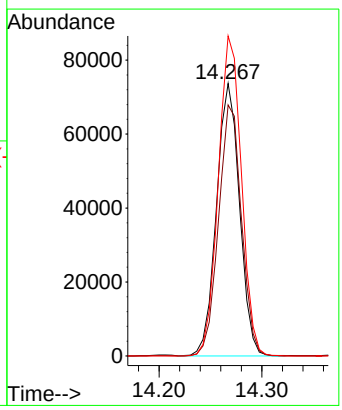
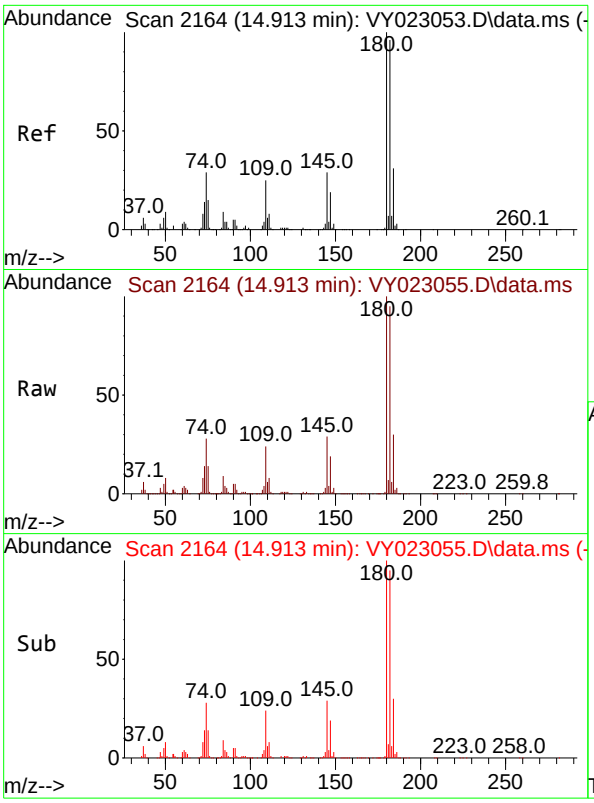


#92
1,2-Dibromo-3-Chloropropane
Concen: 156.498 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

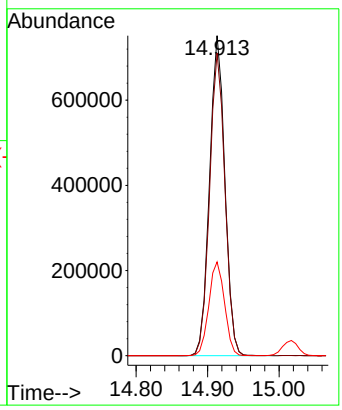




#93
1,2,4-Trichlorobenzene
Concen: 166.397 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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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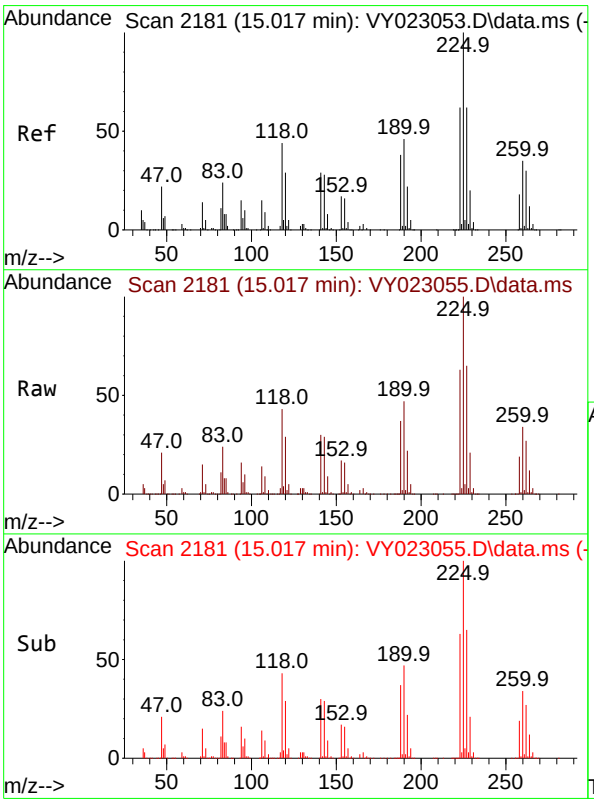
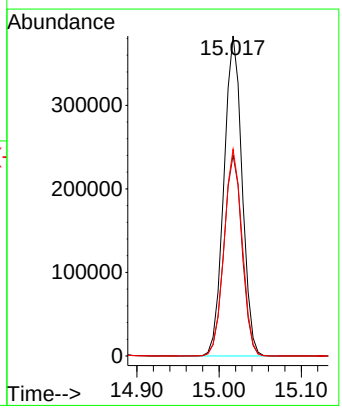
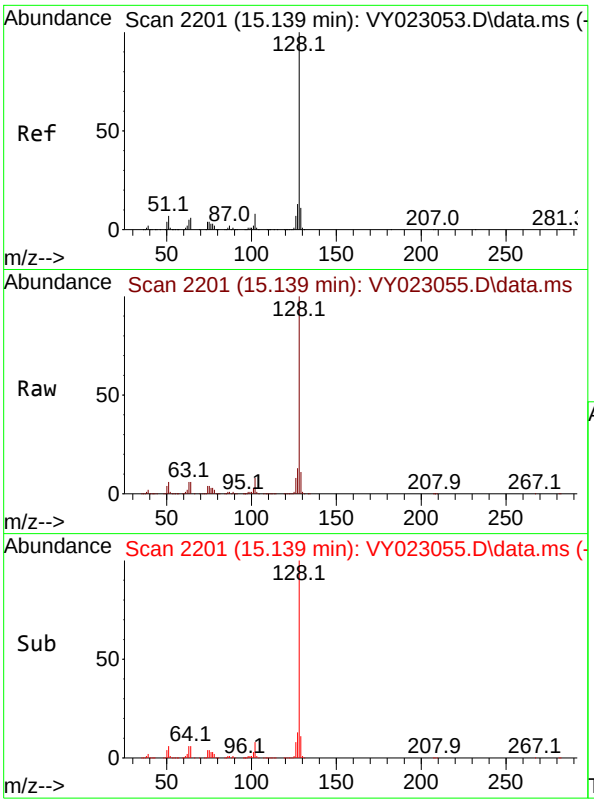


#94
Hexachlorobutadiene
Concen: 149.352 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

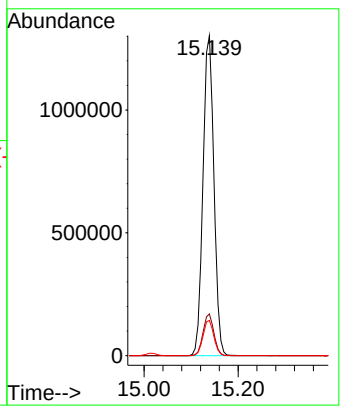




#95
Naphthalene
Concen: 182.954 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

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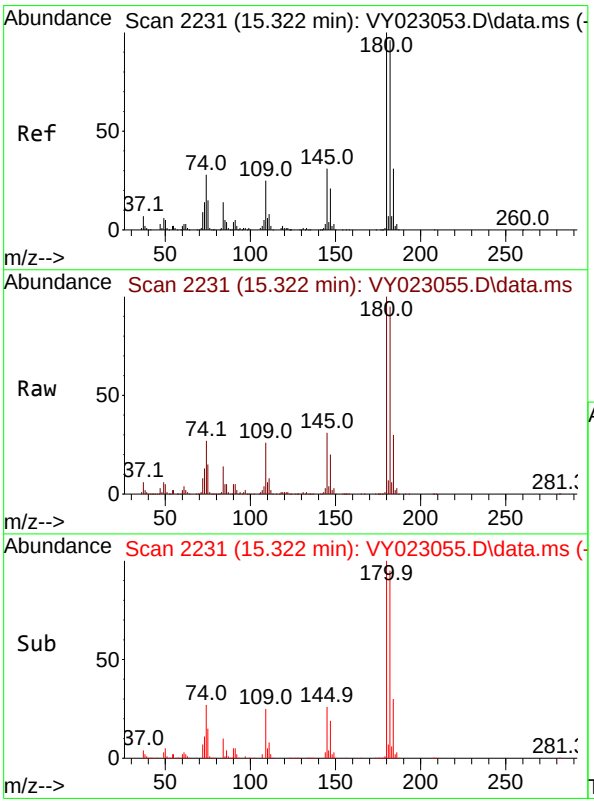
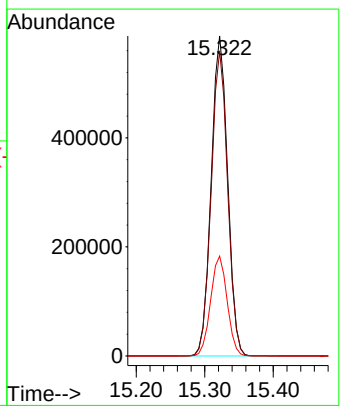


#96
1,2,3-Trichlorobenzene
Concen: 168.557 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



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

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

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

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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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
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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 :
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ClientSampleId :
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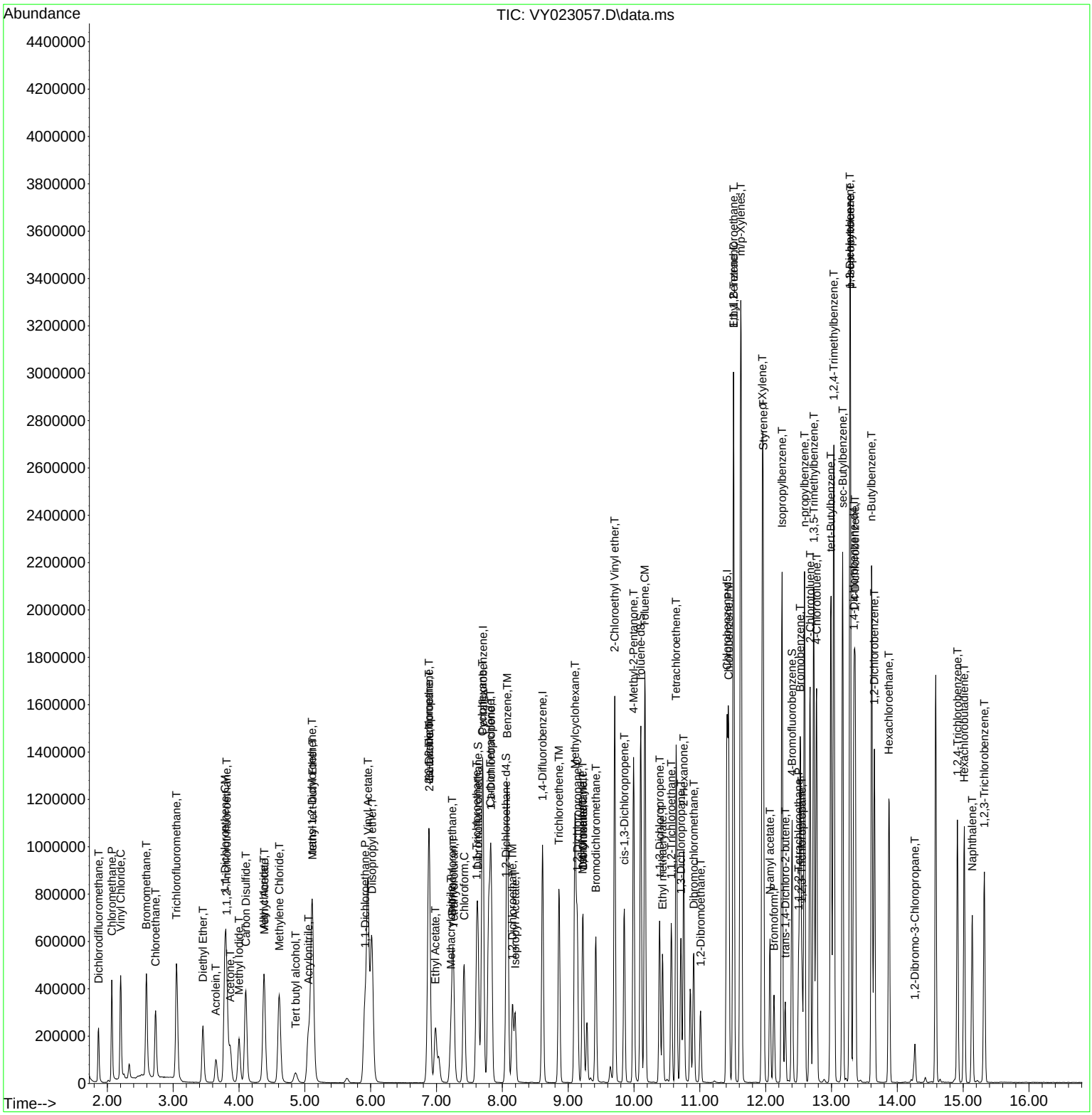
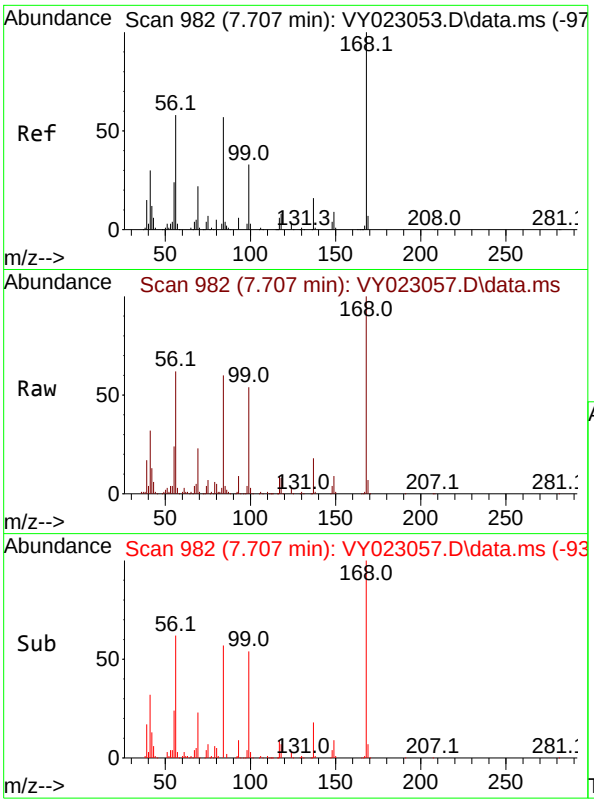
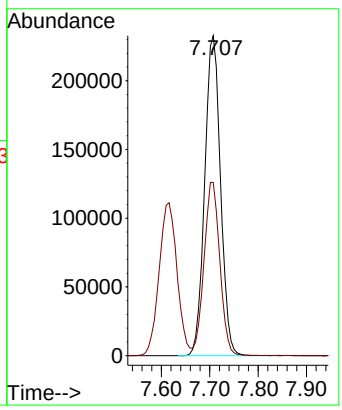




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:168 Resp: 52865

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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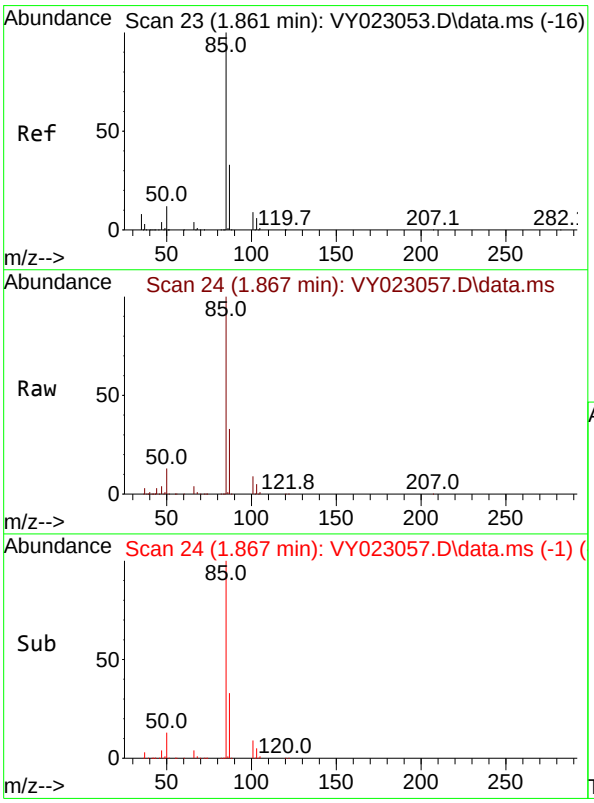
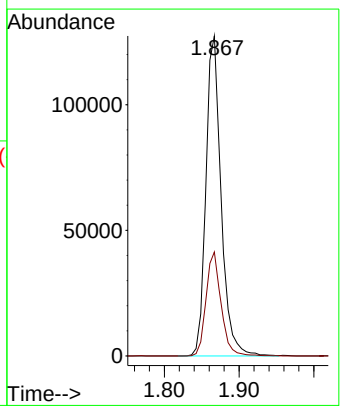
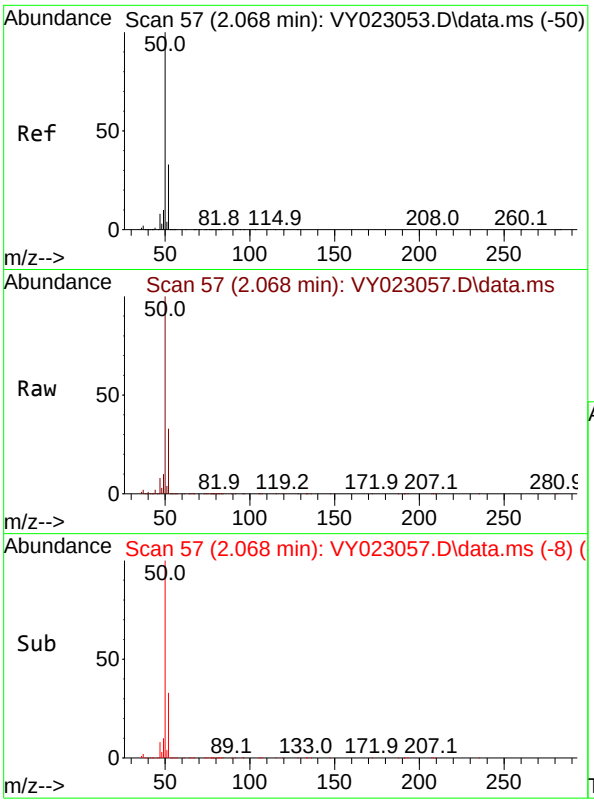


#2
Dichlorodifluoromethane
Concen: 41.579 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 85 Resp: 179421

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.6	49.8

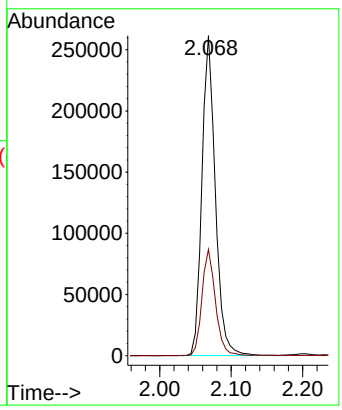




#3
Chloromethane
Concen: 48.732 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 50 Resp: 34060

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.7	40.1



Instrument :
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ClientSampleId :
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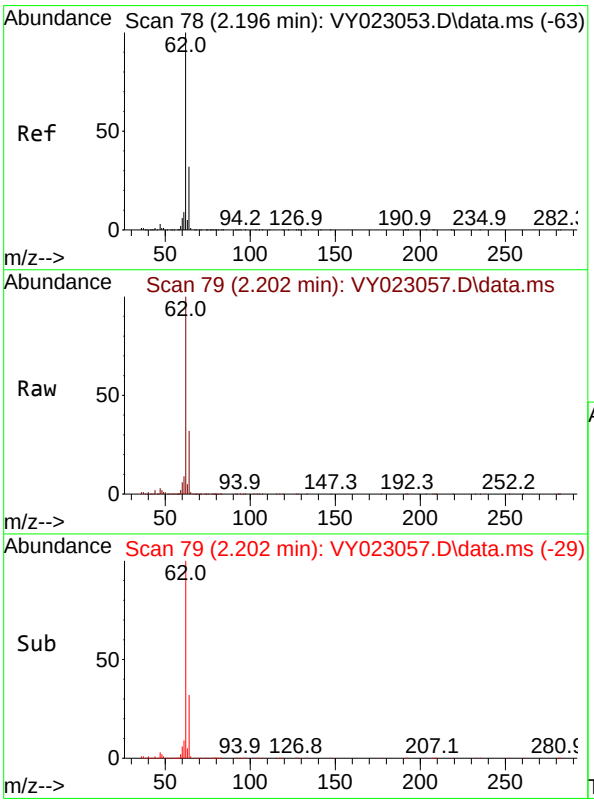
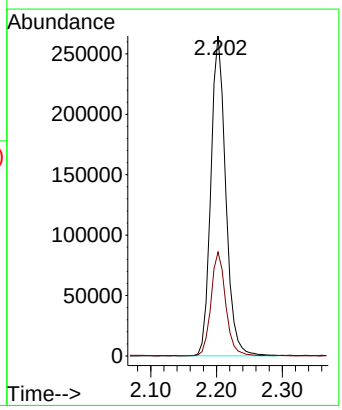
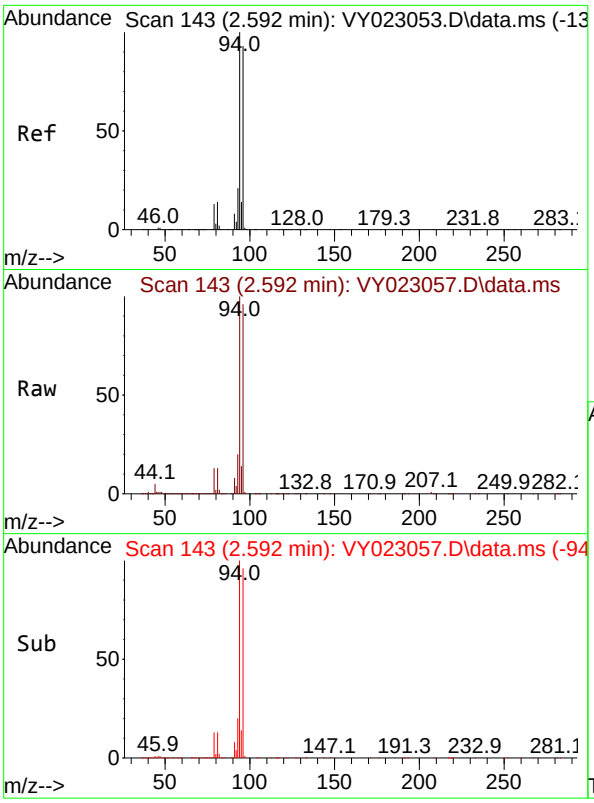


#4
Vinyl Chloride
Concen: 48.198 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 416413

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0

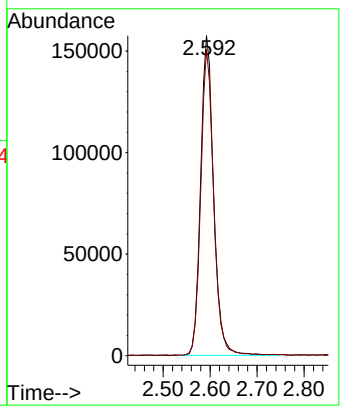




#5
Bromomethane
Concen: 46.983 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 94 Resp: 30314

Ion	Ratio	Lower	Upper
94	100		
96	95.7	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
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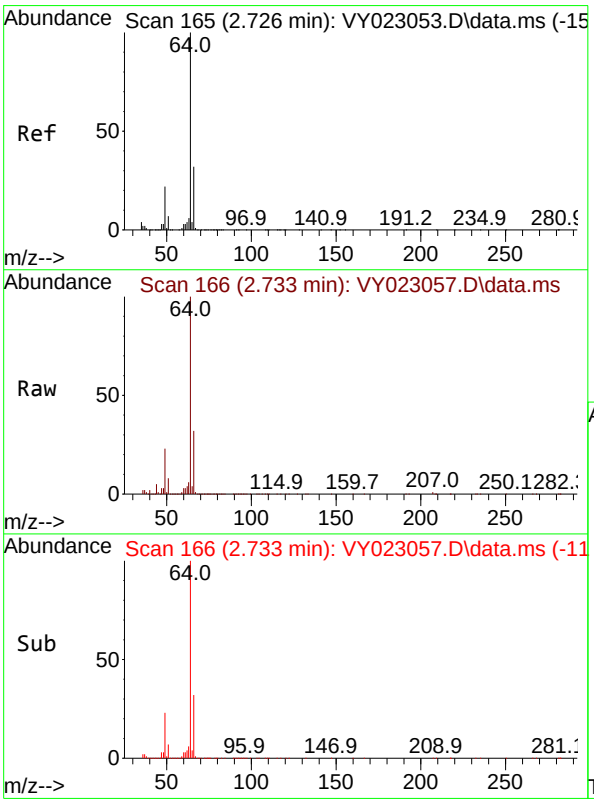
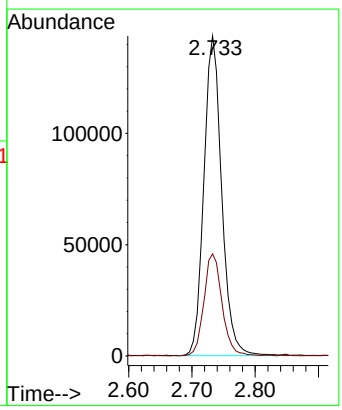
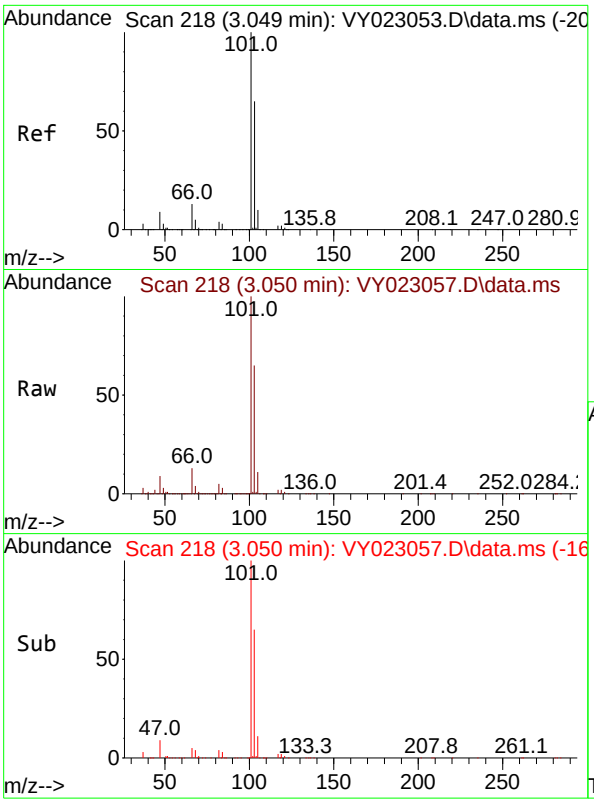


#6
Chloroethane
Concen: 48.923 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 64 Resp: 281008

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.8	38.6

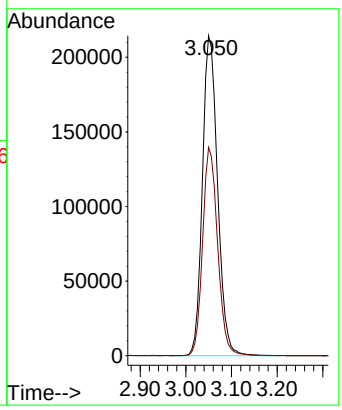




#7
Trichlorofluoromethane
Concen: 47.003 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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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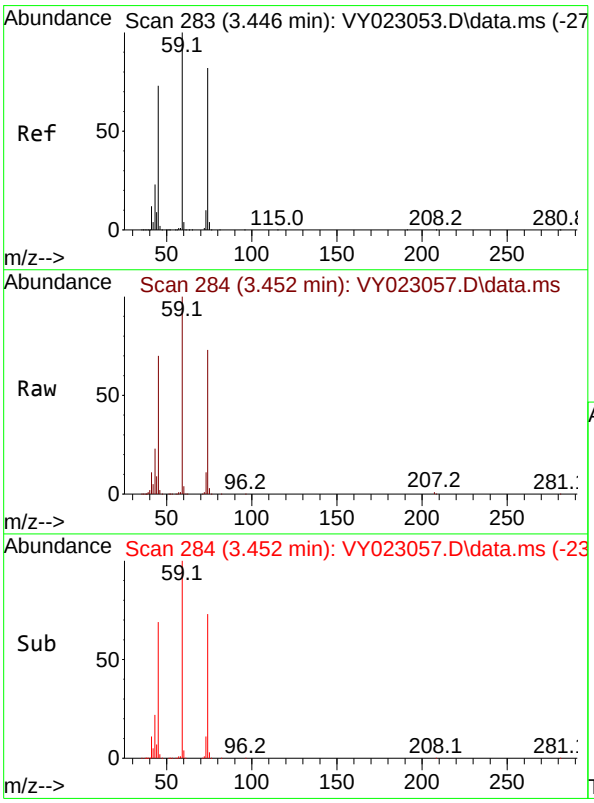
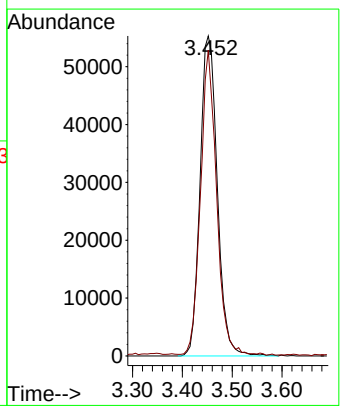
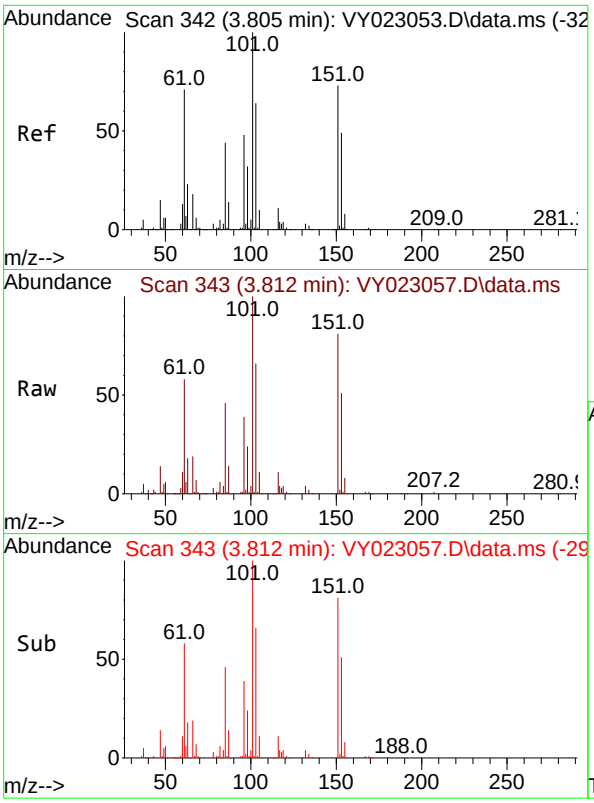


#8
Diethyl Ether
Concen: 47.787 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 74 Resp: 132818

Ion	Ratio	Lower	Upper
74	100		
45	88.1	44.4	133.2

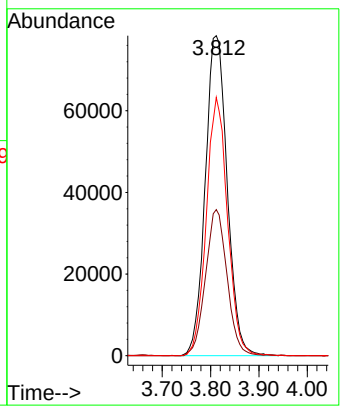




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.725 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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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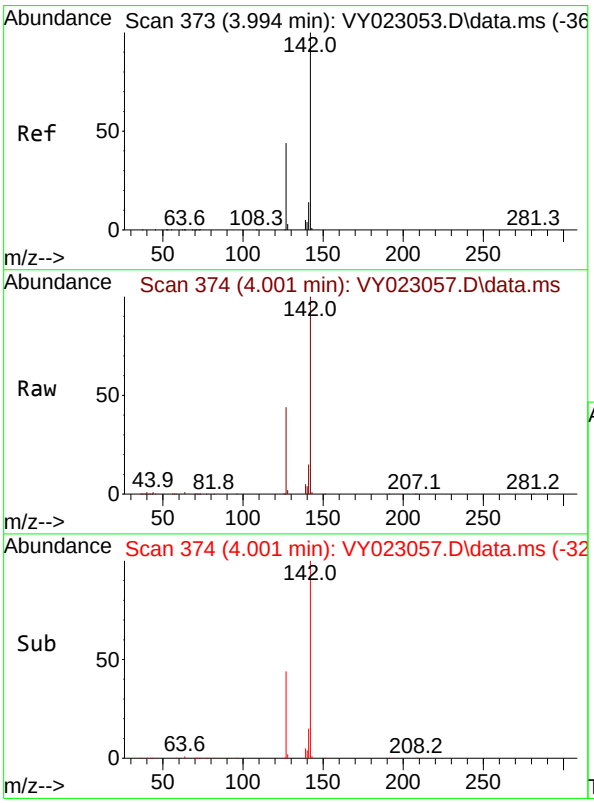
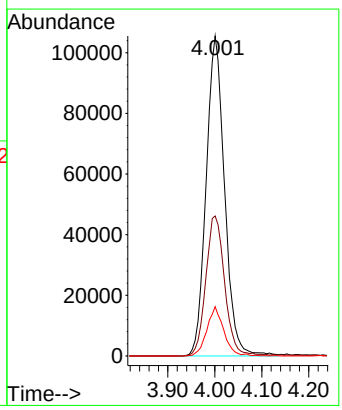
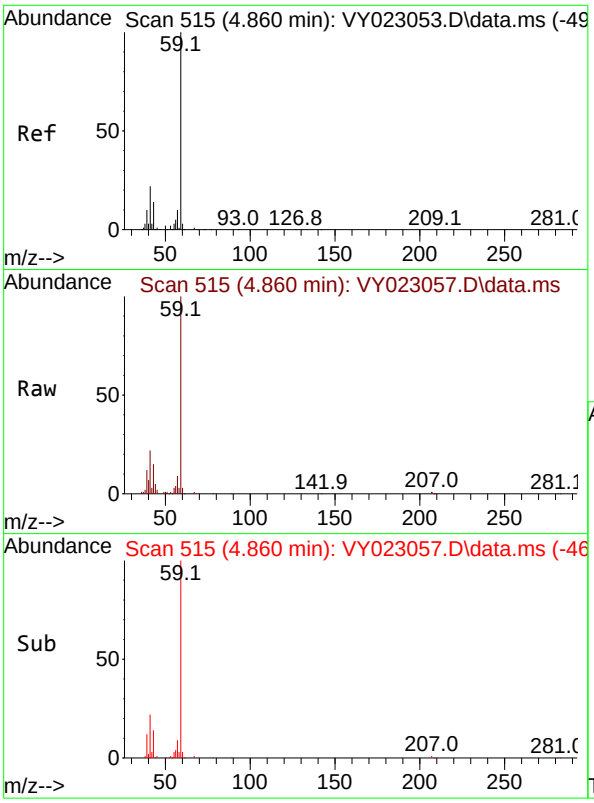


#10
Methyl Iodide
Concen: 51.340 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

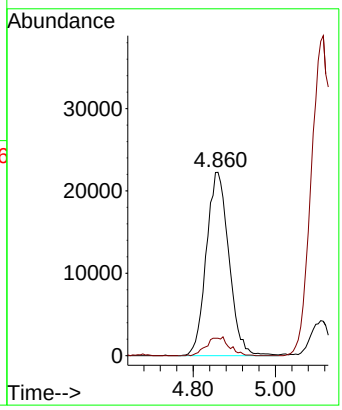




#11
Tert butyl alcohol
Concen: 245.940 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 59 Resp: 8490

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	13.0



Instrument :
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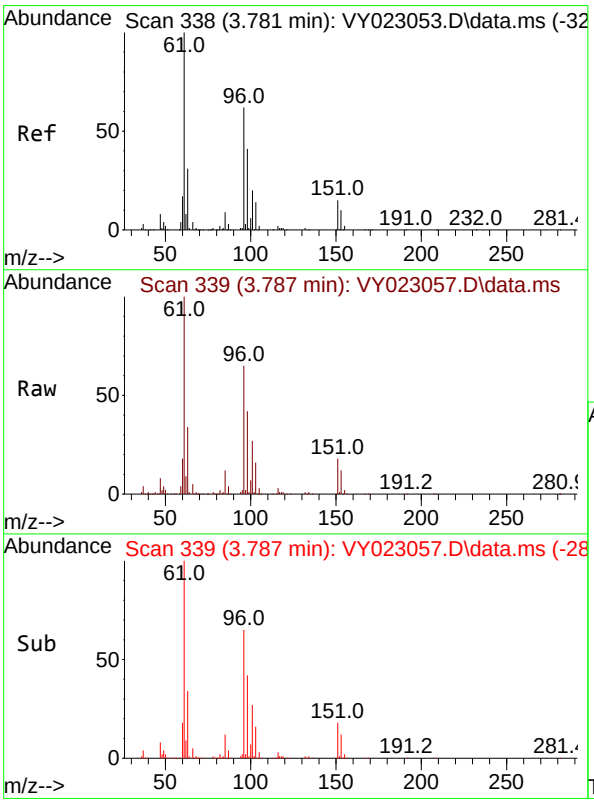
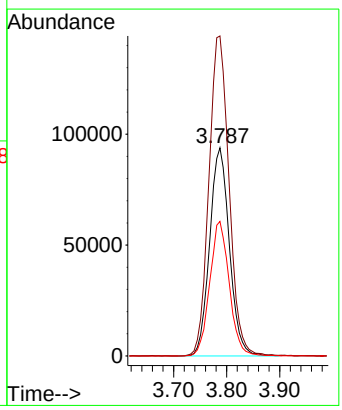
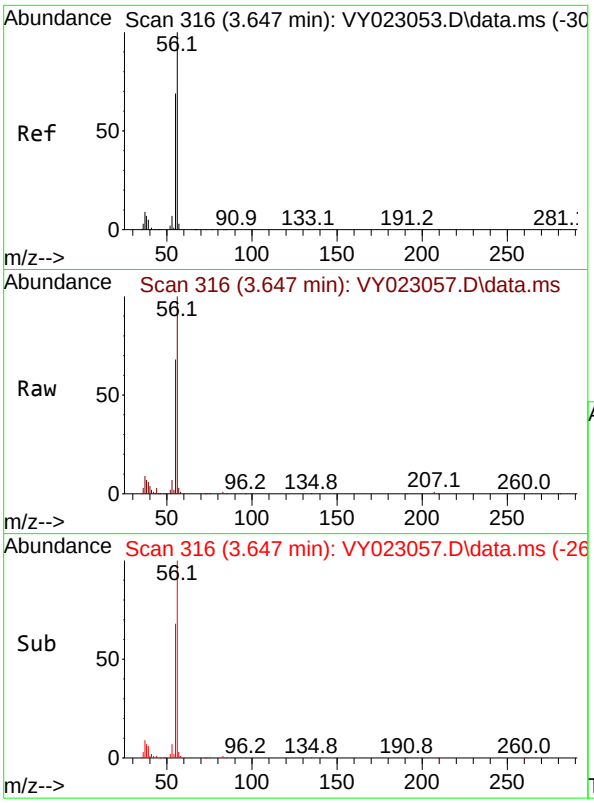


#12
1,1-Dichloroethene
Concen: 47.686 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

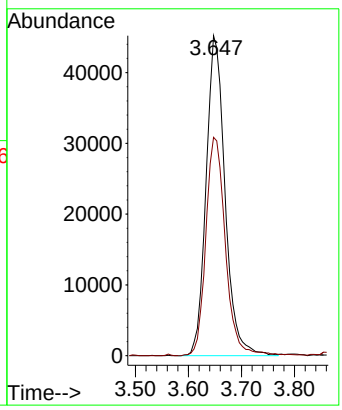




#13
Acrolein
Concen: 222.008 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 56 Resp: 11224

Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.2	82.8



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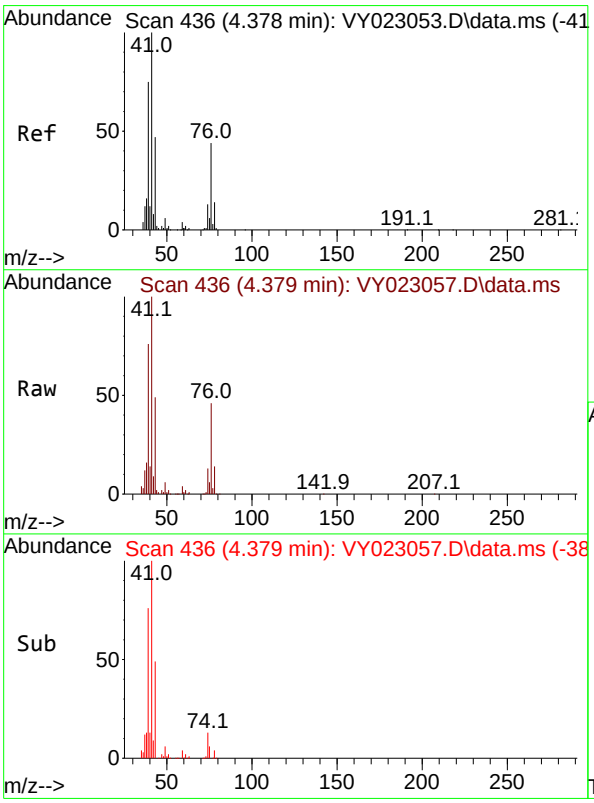
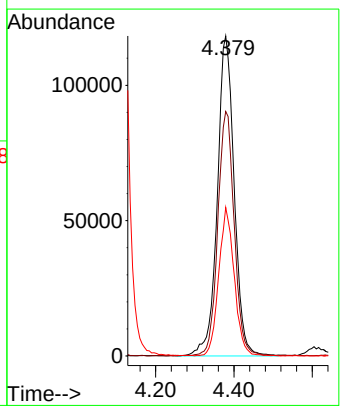
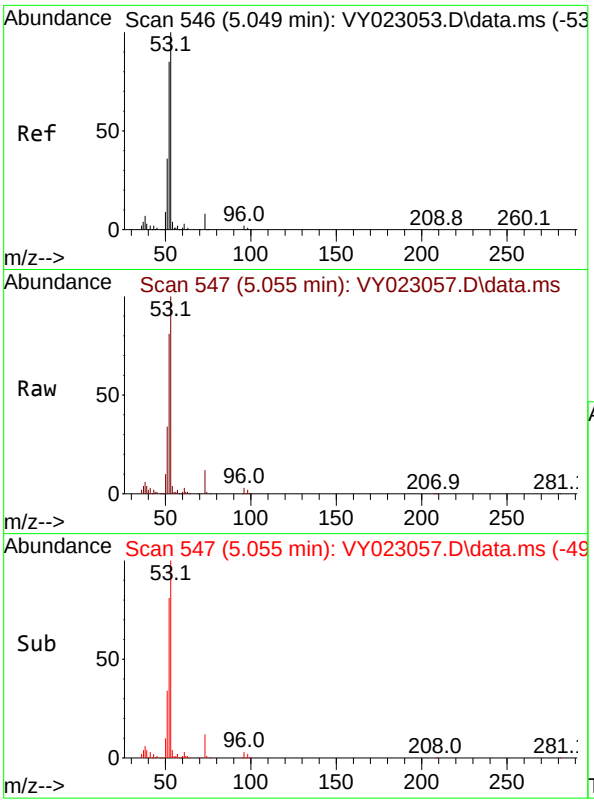


#14
Allyl chloride
Concen: 47.317 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

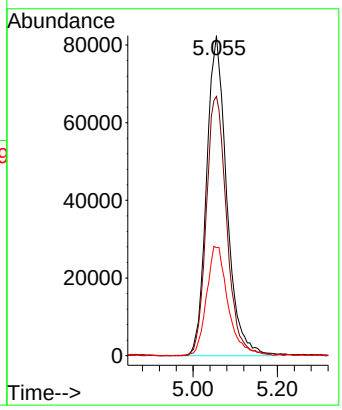




#15
Acrylonitrile
Concen: 242.779 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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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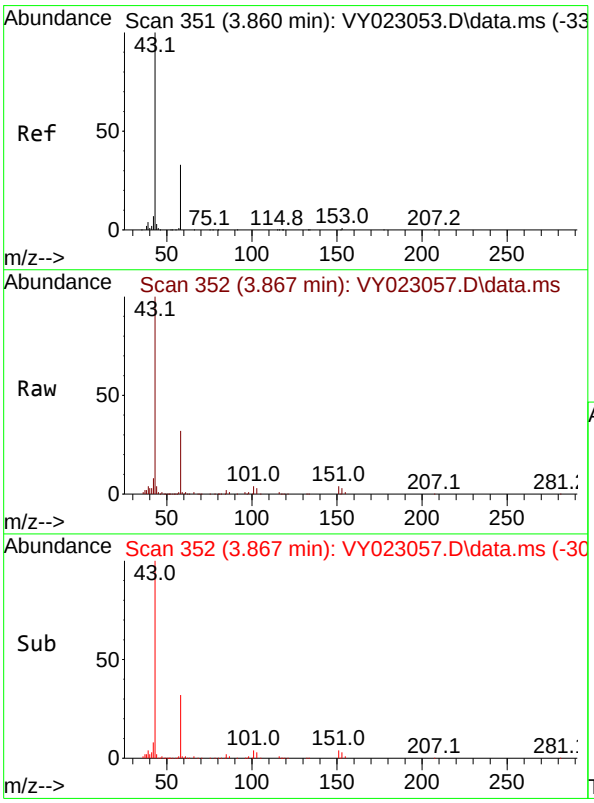
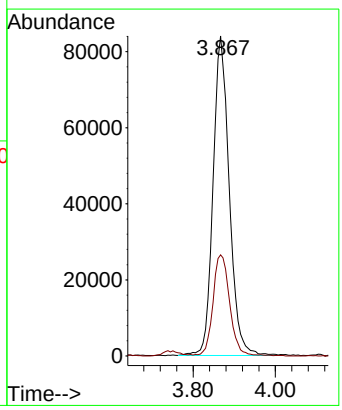
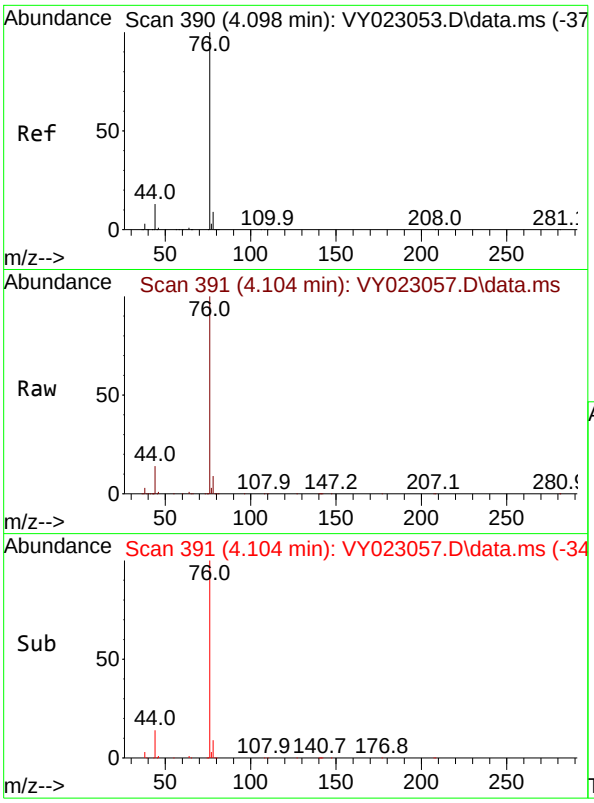


#16
Acetone
Concen: 210.695 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 229985

Ion	Ratio	Lower	Upper
43	100		
58	31.5	27.1	40.7

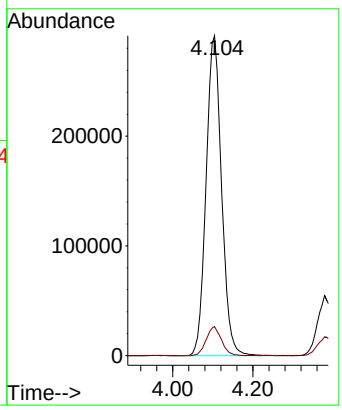




#17
Carbon Disulfide
Concen: 46.948 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 76 Resp: 77985

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2



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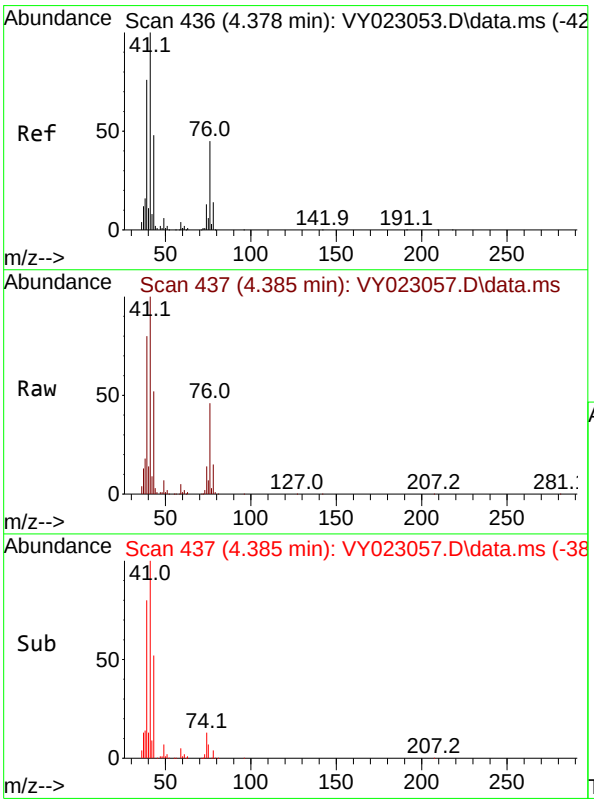
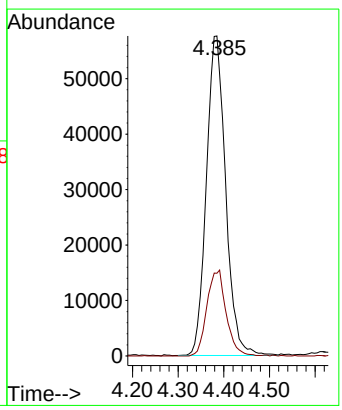
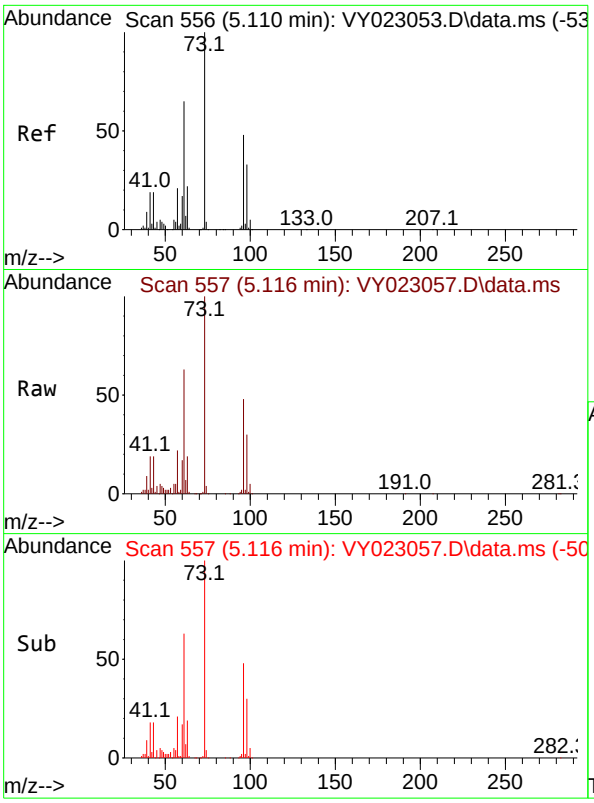


#18
Methyl Acetate
Concen: 51.972 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 168821

Ion	Ratio	Lower	Upper
43	100		
74	26.8	21.2	31.8

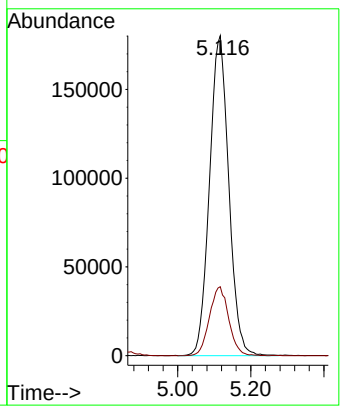




#19
Methyl tert-butyl Ether
Concen: 49.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 73 Resp: 65871

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7



Instrument :
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ClientSampleId :
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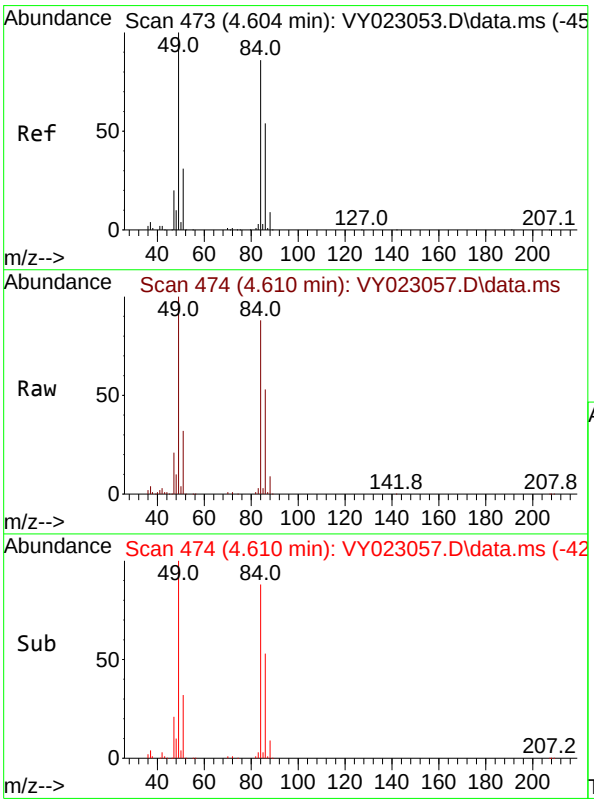
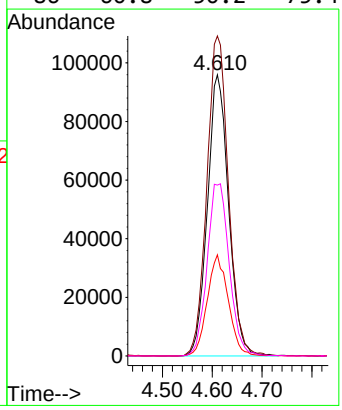
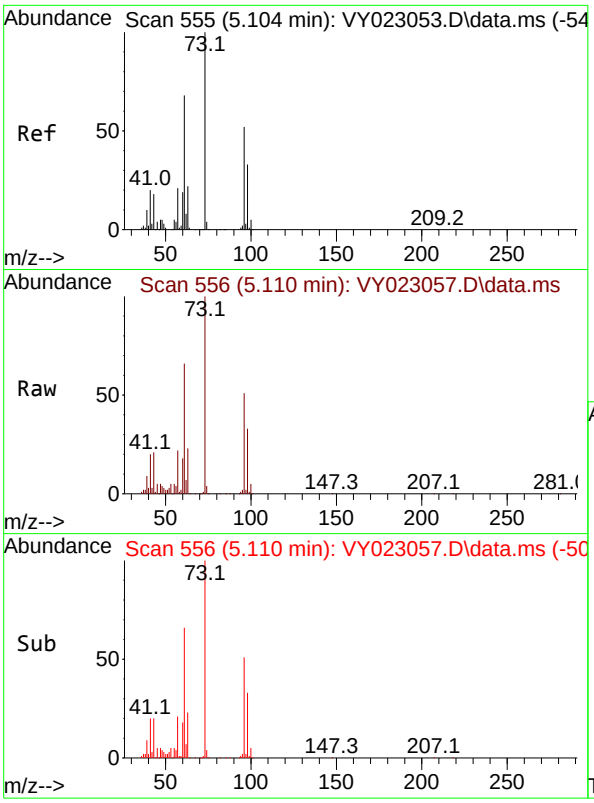


#20
Methylene Chloride
Concen: 49.960 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

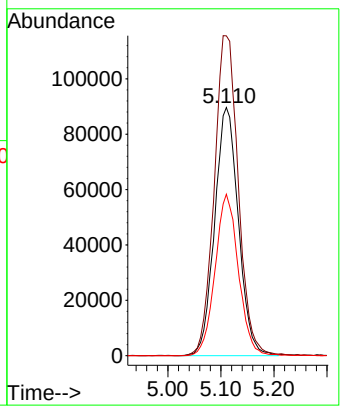




#21
trans-1,2-Dichloroethene
Concen: 48.765 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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ClientSampleId :
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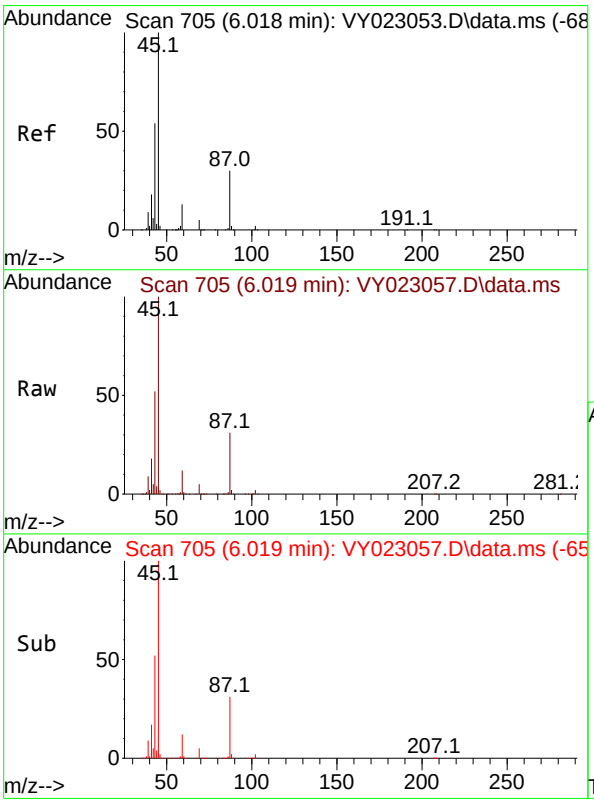
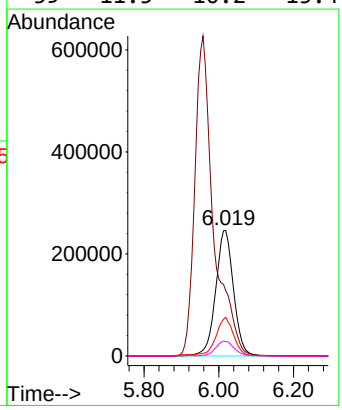
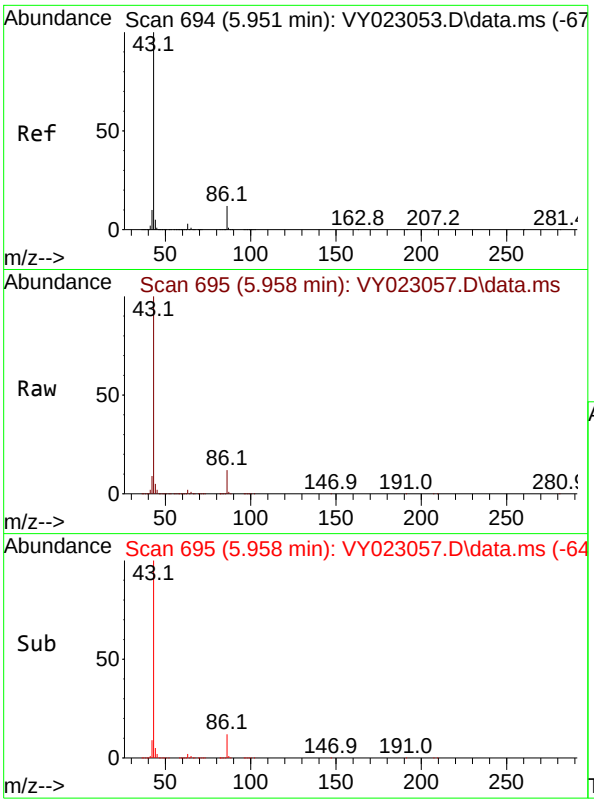


#22
Diisopropyl ether
Concen: 50.011 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

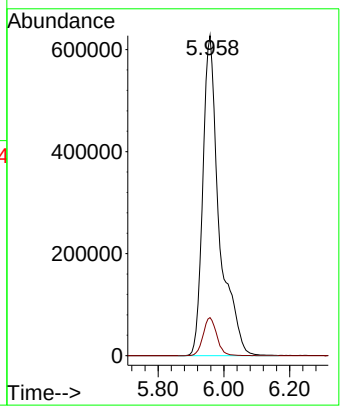




#23
Vinyl Acetate
Concen: 242.360 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 218292

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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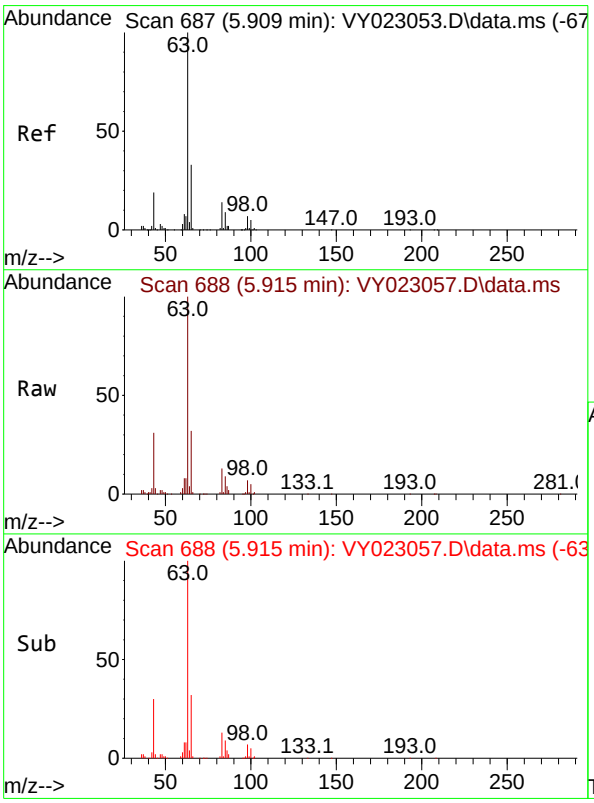
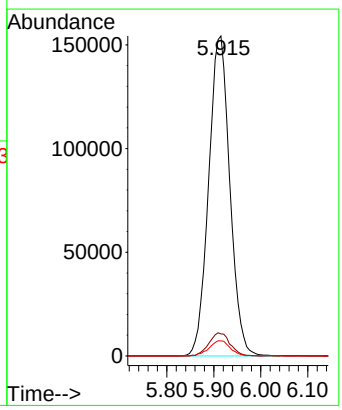
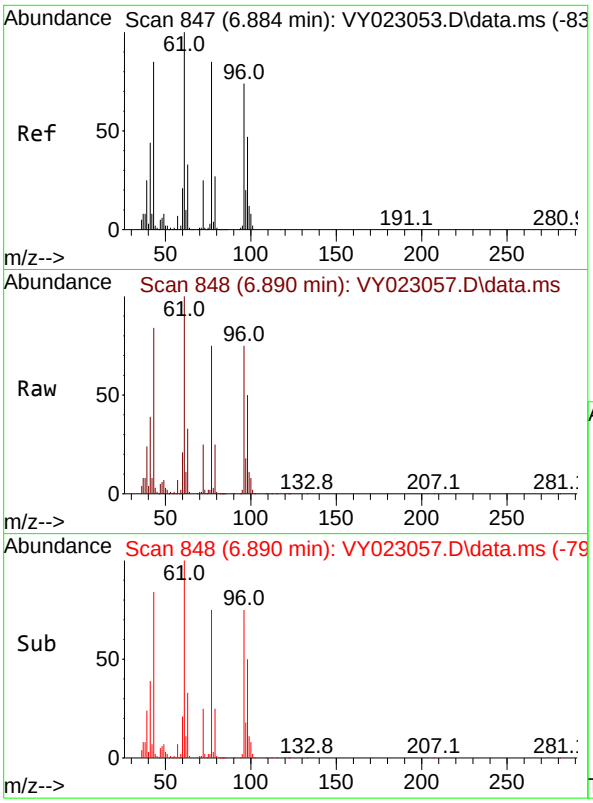


#24
1,1-Dichloroethane
Concen: 48.551 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

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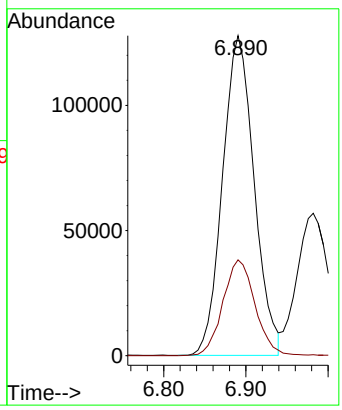
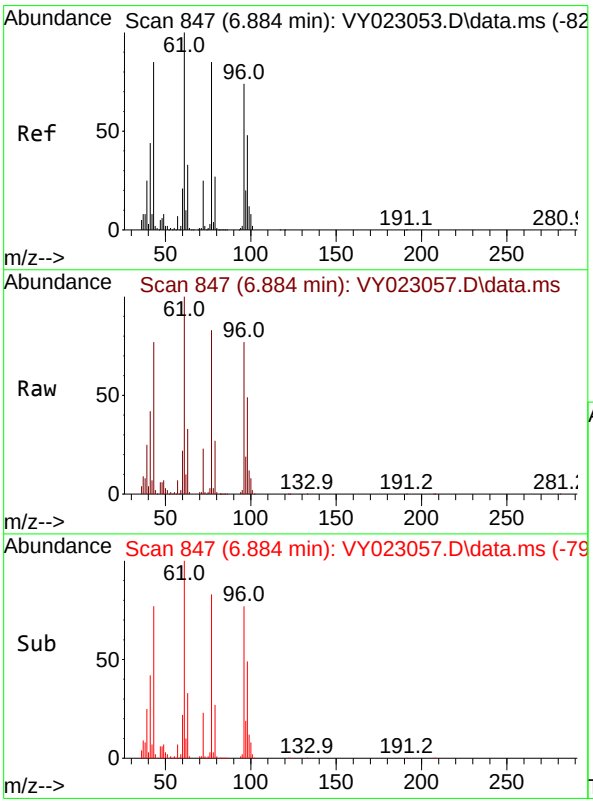
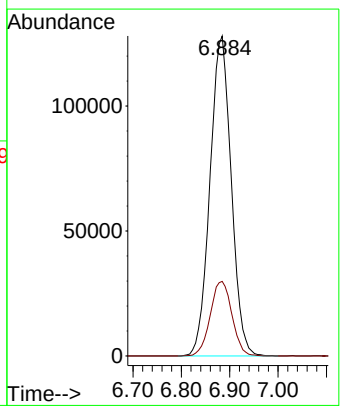


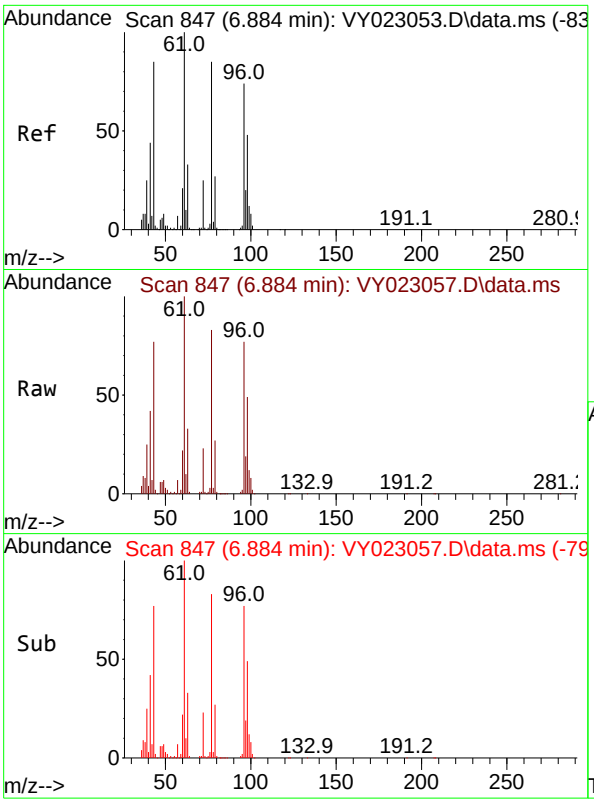


#26
2,2-Dichloropropane
Concen: 45.475 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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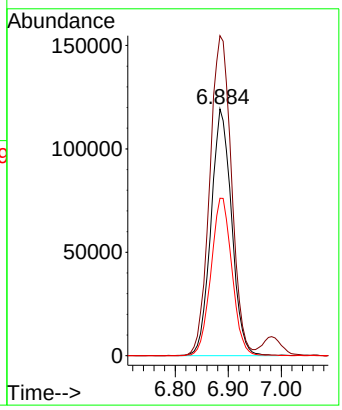
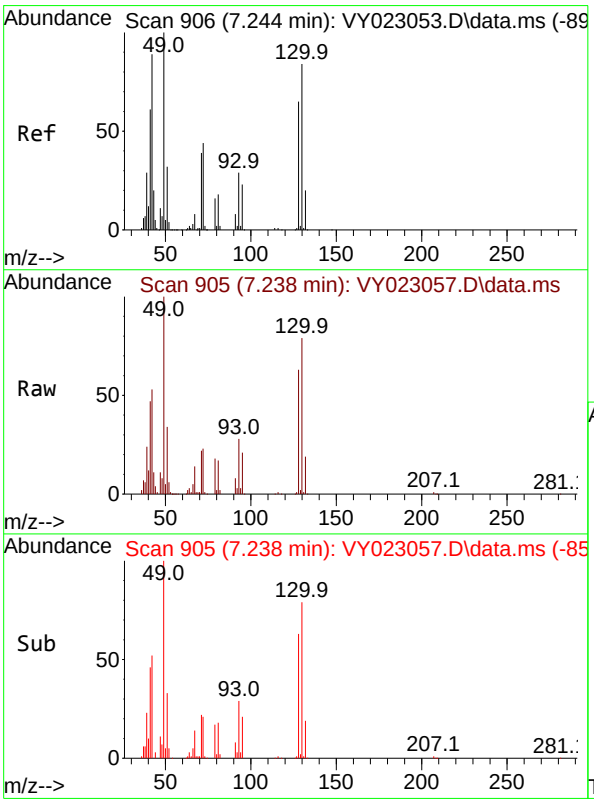
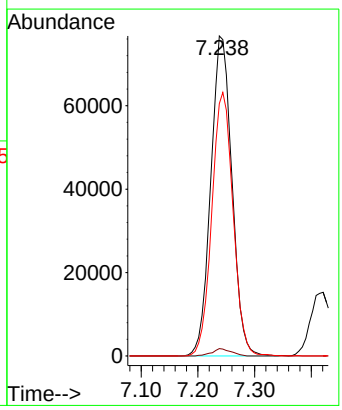


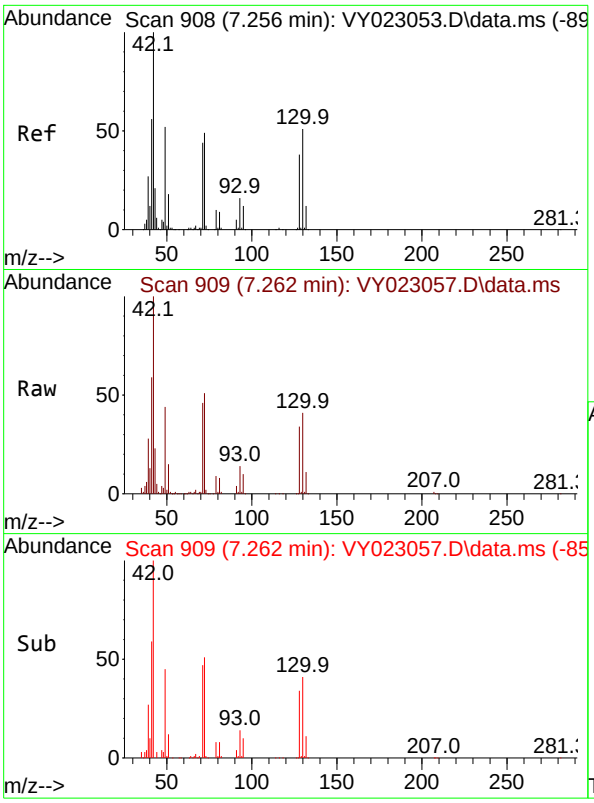


#28
Bromochloromethane
Concen: 50.275 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

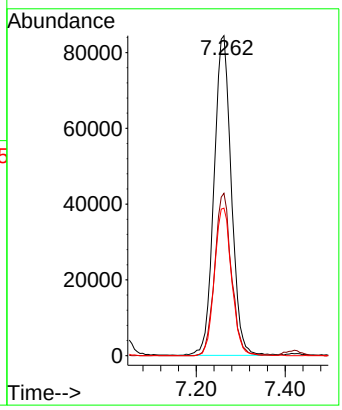




#29
Tetrahydrofuran
Concen: 247.420 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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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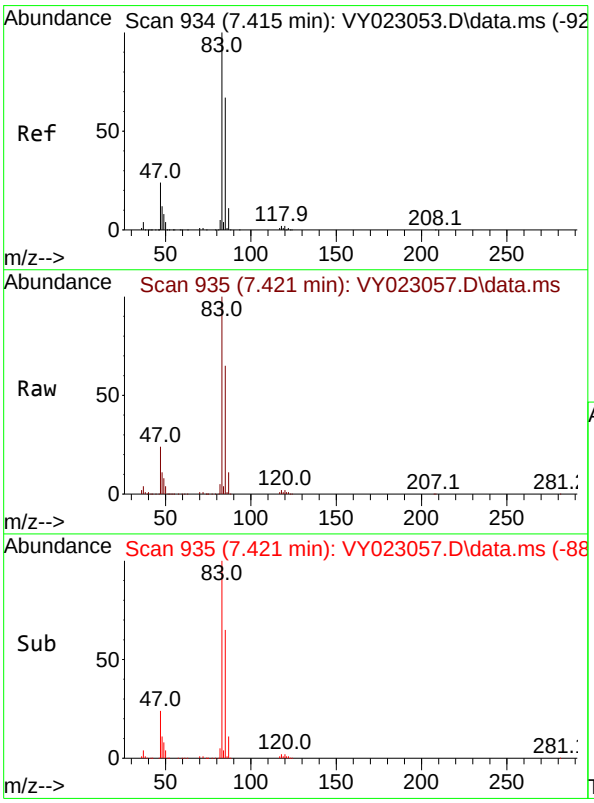
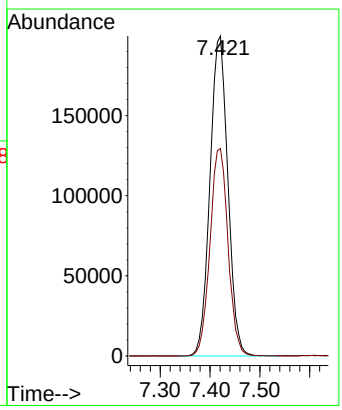
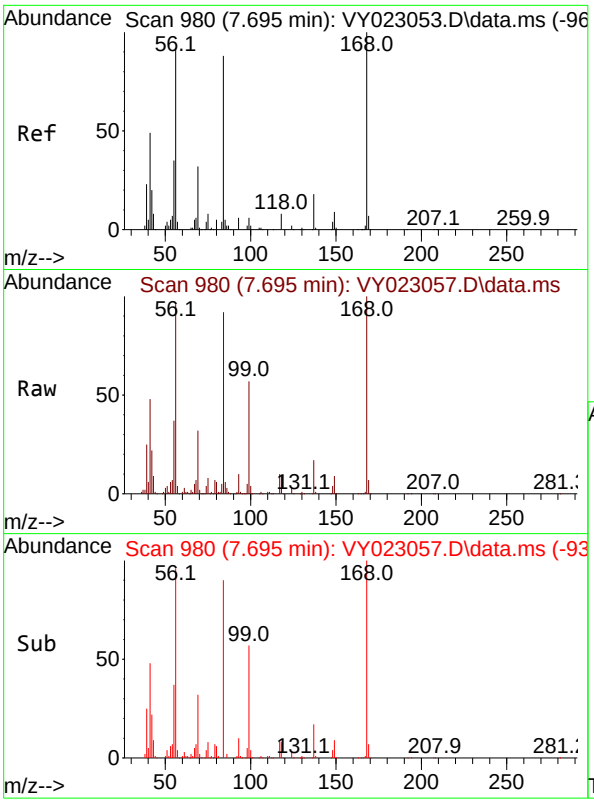


#30
Chloroform
Concen: 48.450 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 497627

Ion	Ratio	Lower	Upper
83	100		
85	64.8	53.8	80.8

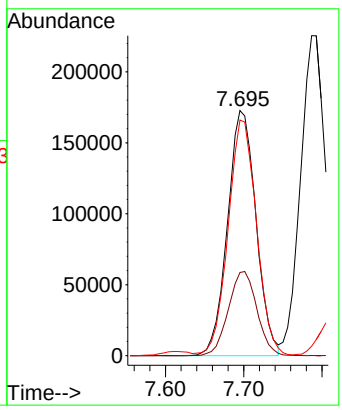




#31
Cyclohexane
Concen: 46.526 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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ClientSampleId :
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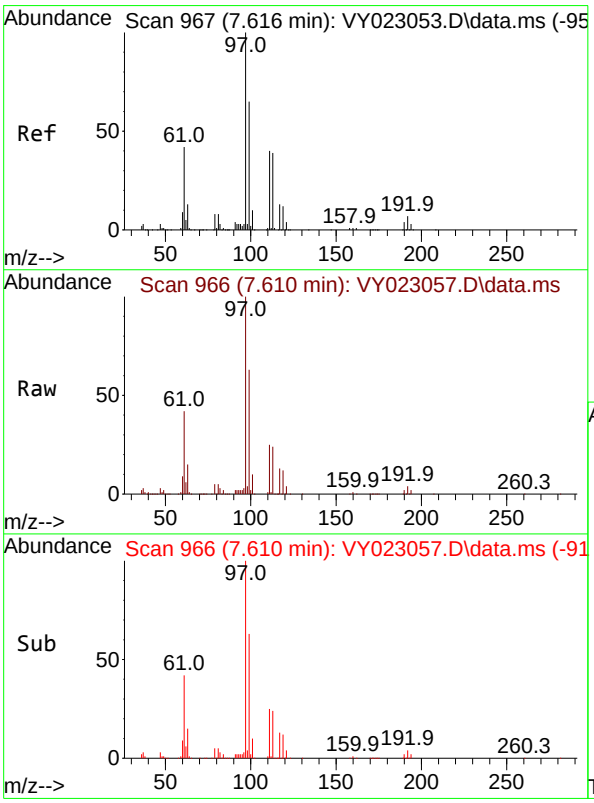
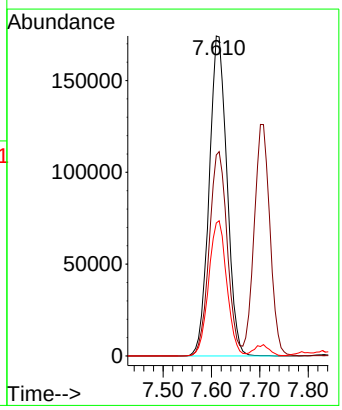
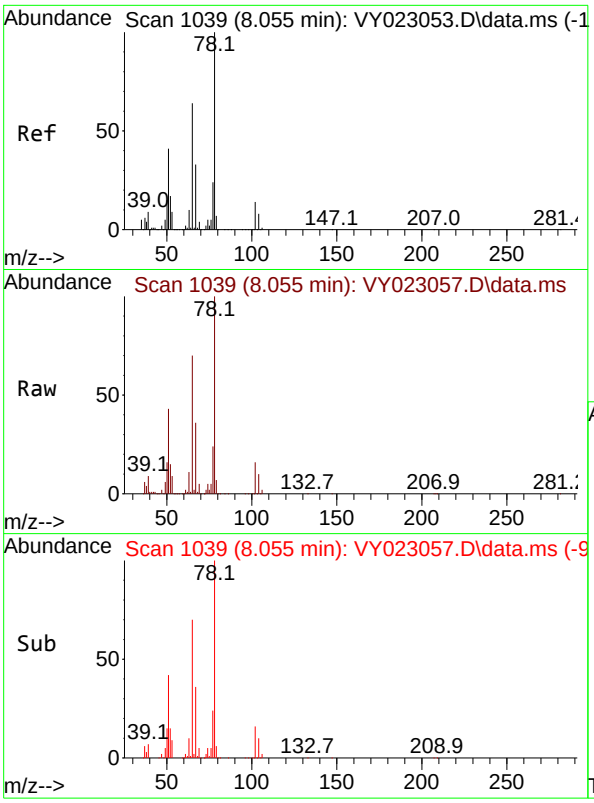


#32
1,1,1-Trichloroethane
Concen: 48.933 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

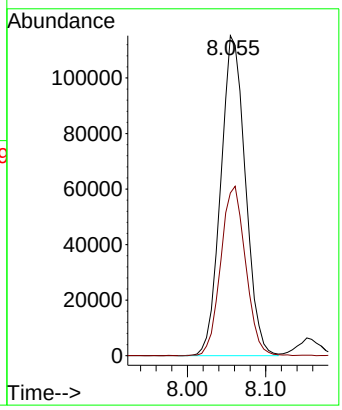




#33
1,2-Dichloroethane-d4
Concen: 50.038 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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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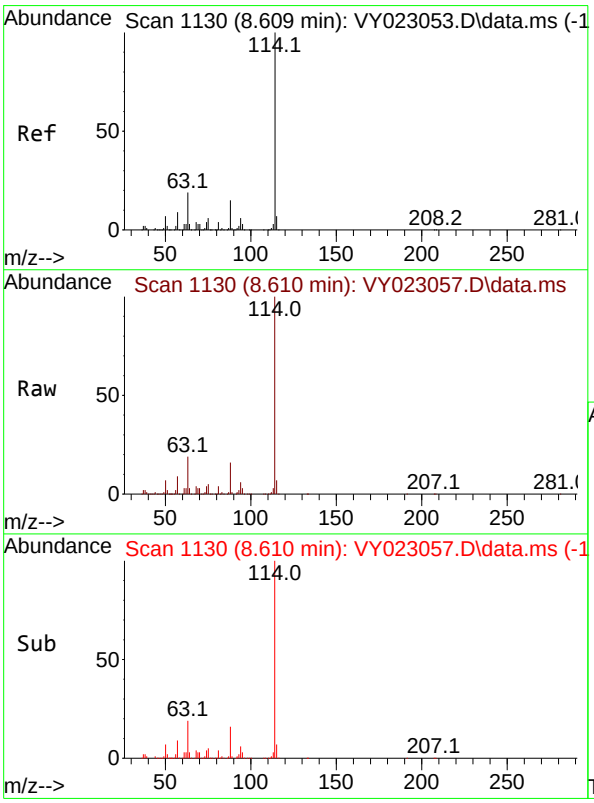
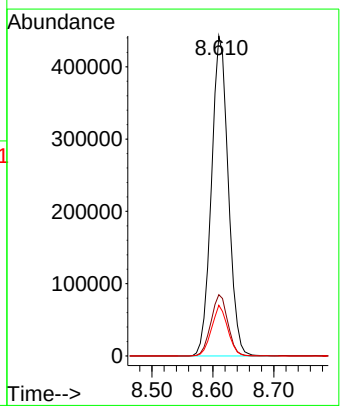
Supervised By :Semsettin Yesilyurt 08/14/2025

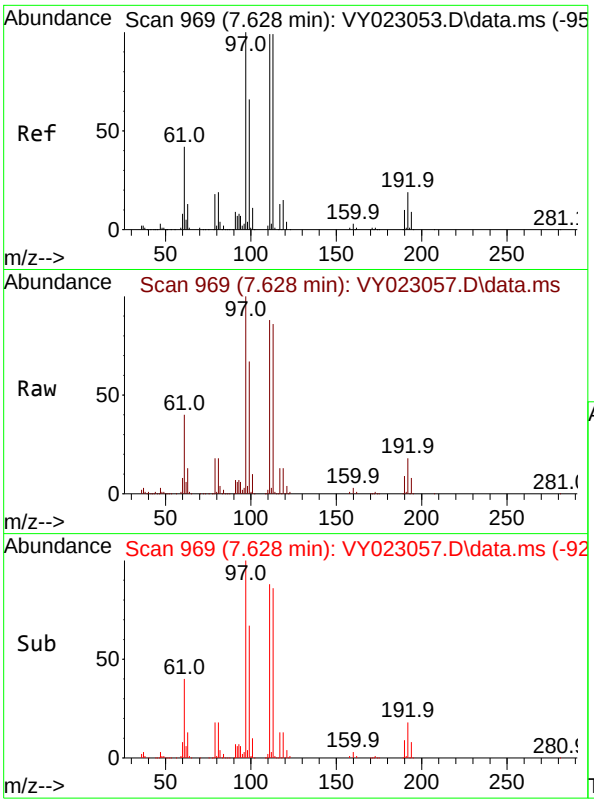


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

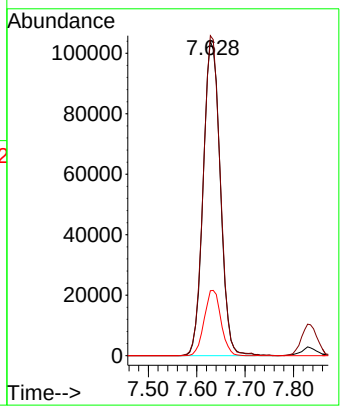




#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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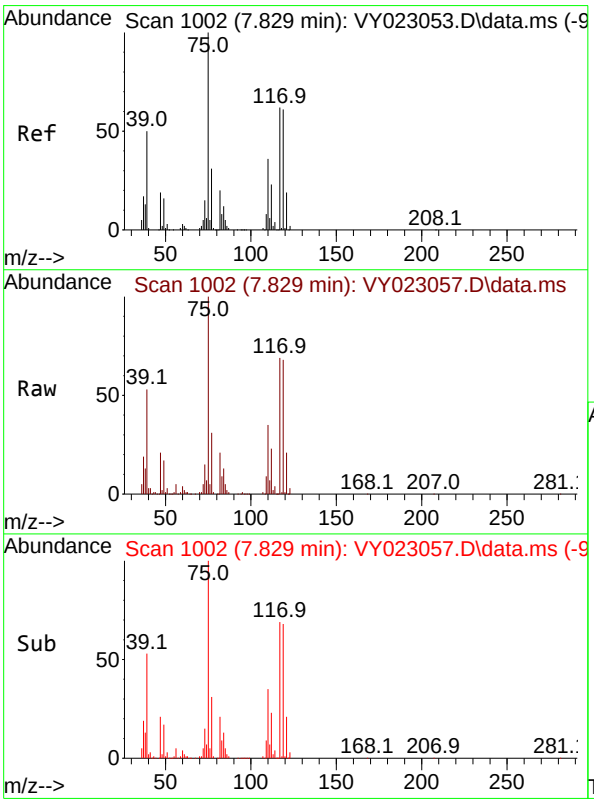
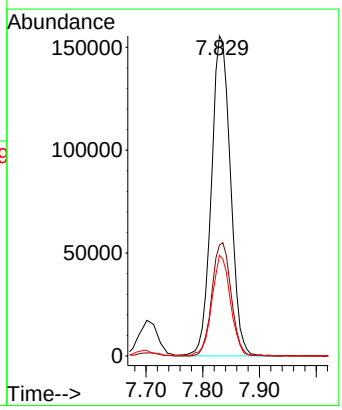
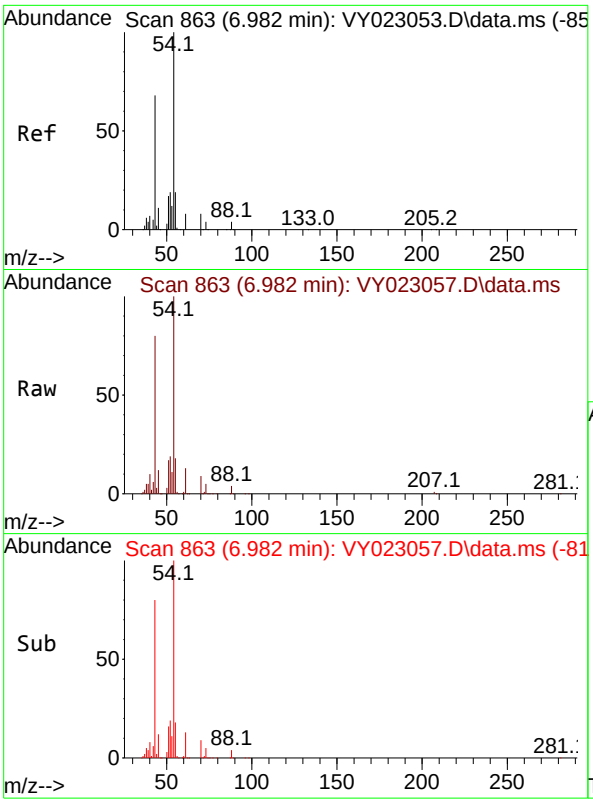


#36
1,1-Dichloropropene
Concen: 48.193 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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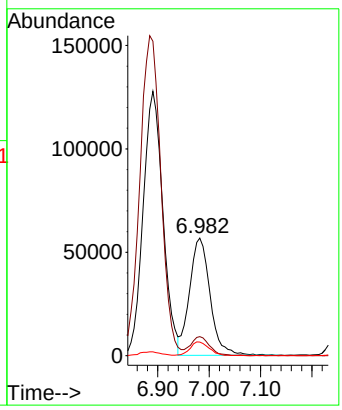
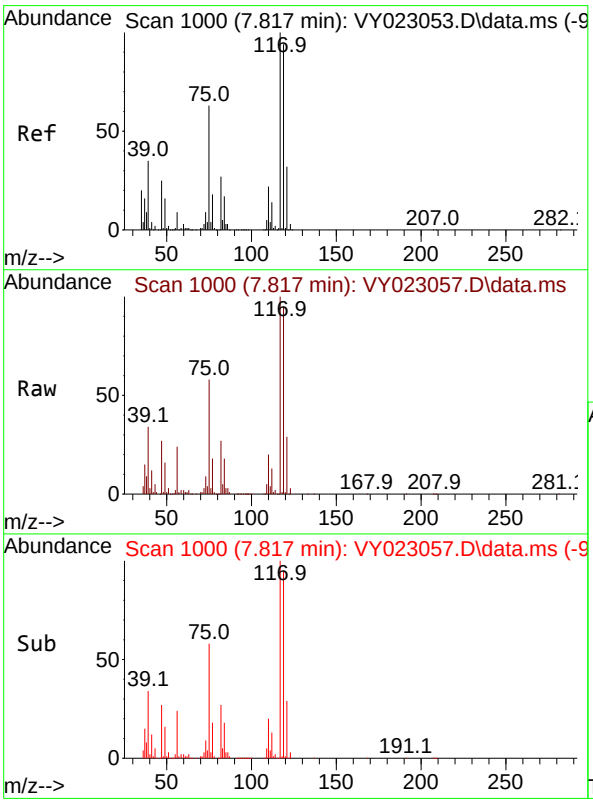
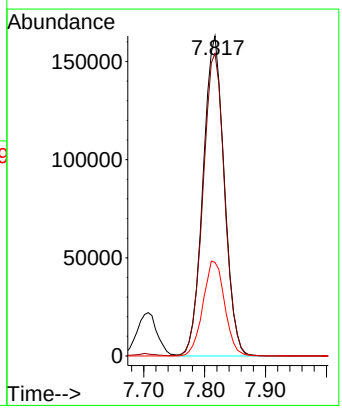


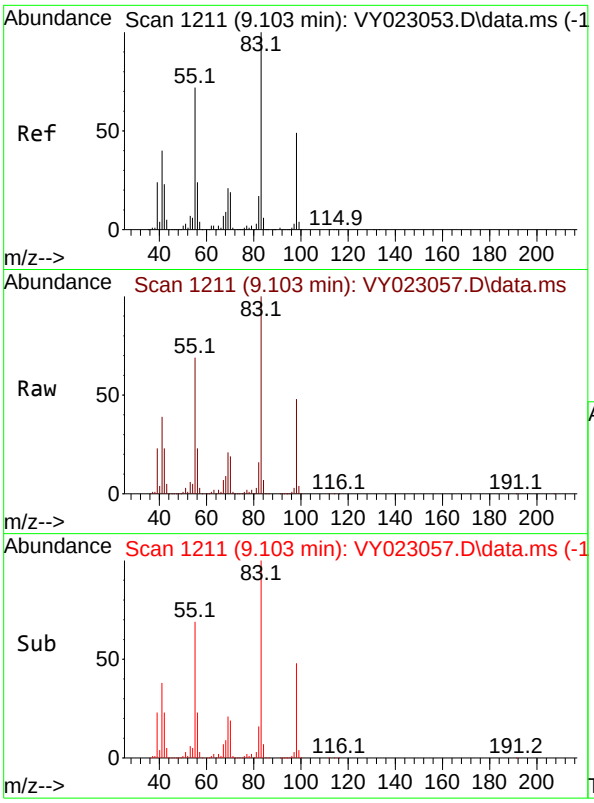


#38
Carbon Tetrachloride
Concen: 48.030 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

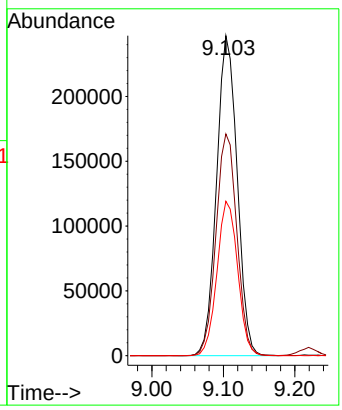




#39
Methylcyclohexane
Concen: 49.625 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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ClientSampleId :
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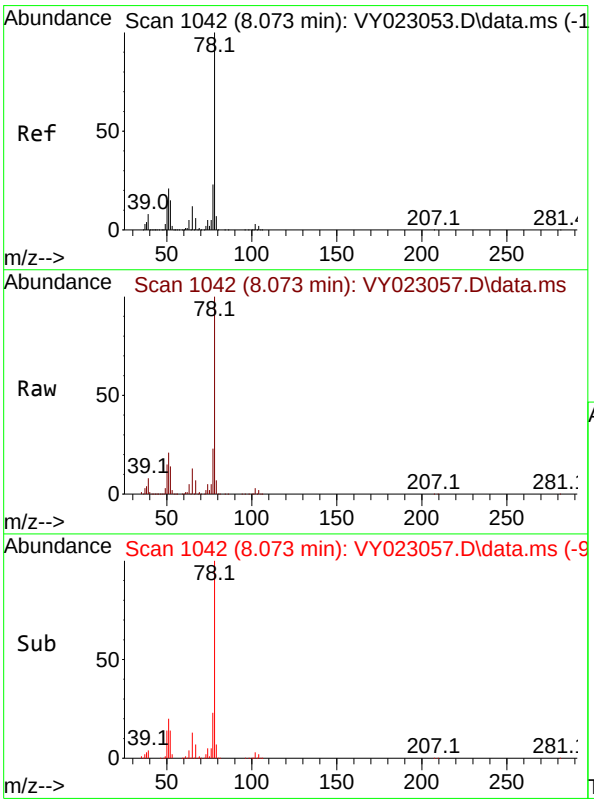
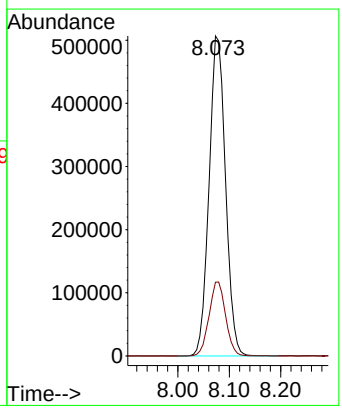
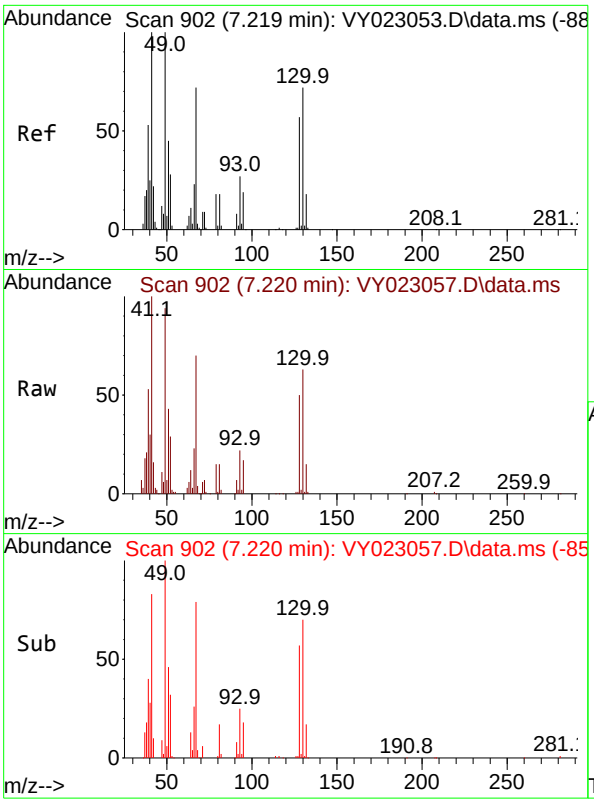


#40
Benzene
Concen: 48.428 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 78 Resp: 1128023

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0

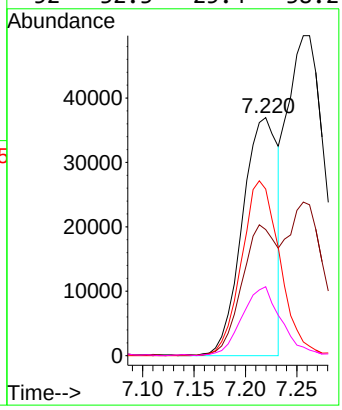




#41
Methacrylonitrile
Concen: 48.269 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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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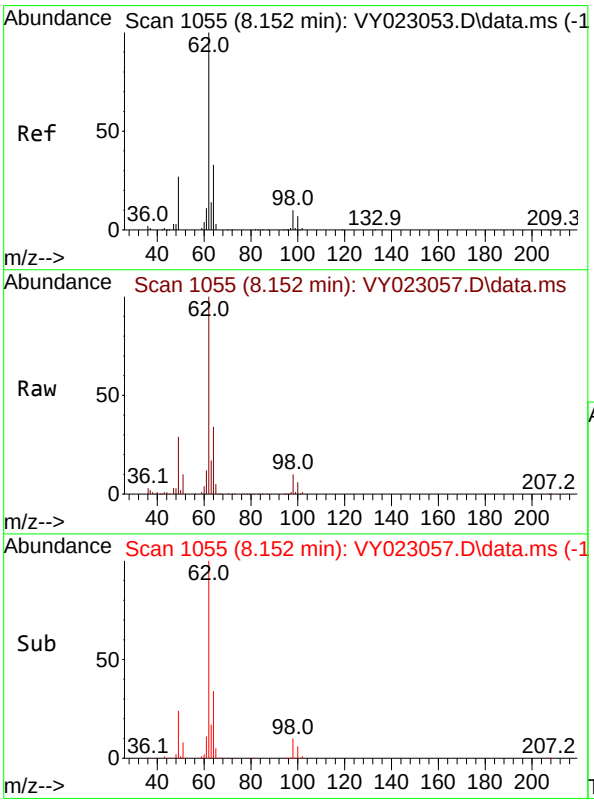
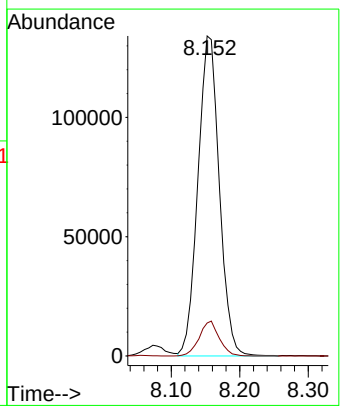
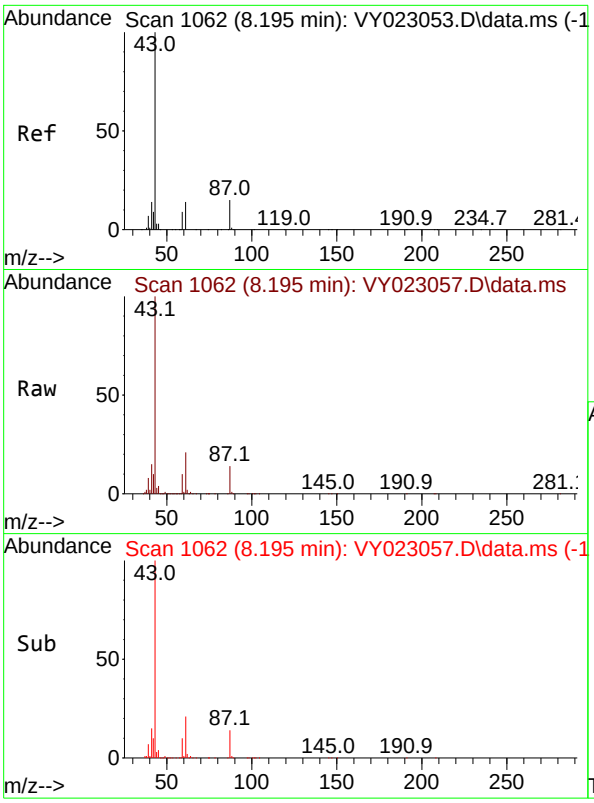


#42
1,2-Dichloroethane
Concen: 48.162 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 291766

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6

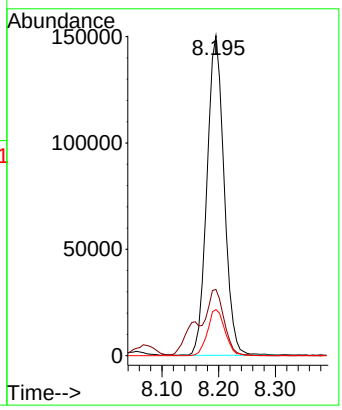




#43
Isopropyl Acetate
Concen: 49.094 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
ICVVY081225

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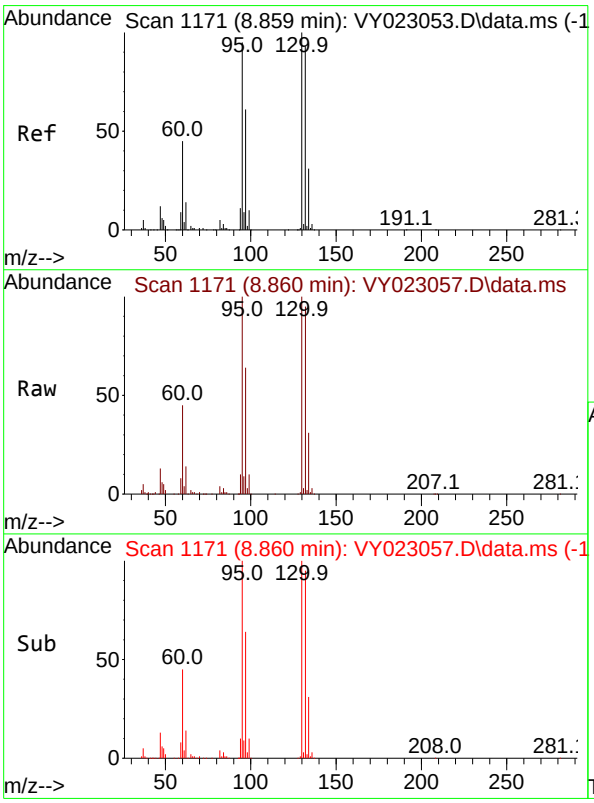
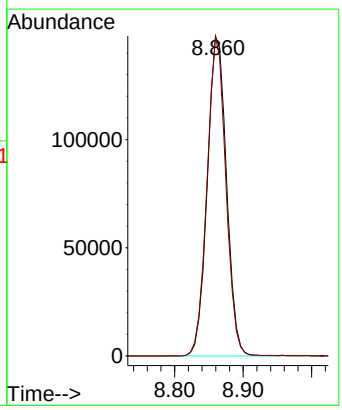
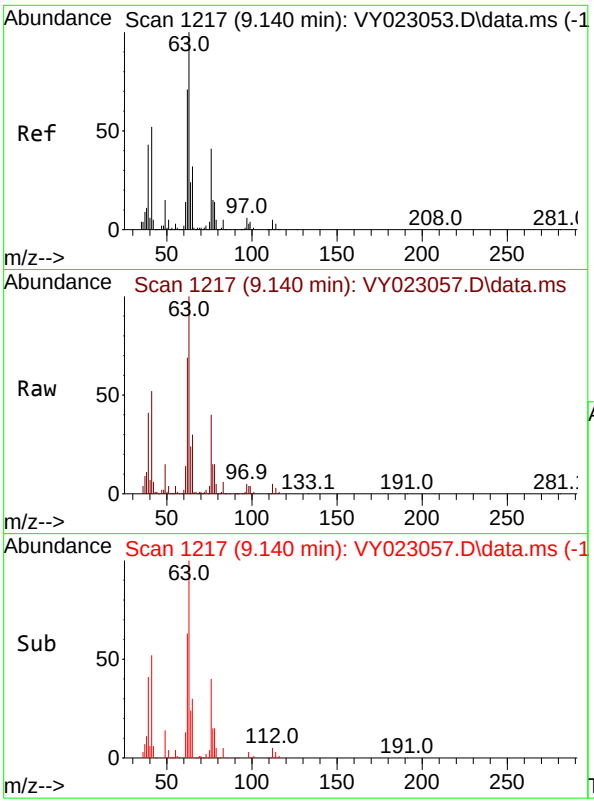


#44
Trichloroethene
Concen: 47.803 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:130 Resp: 287745

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	190.2

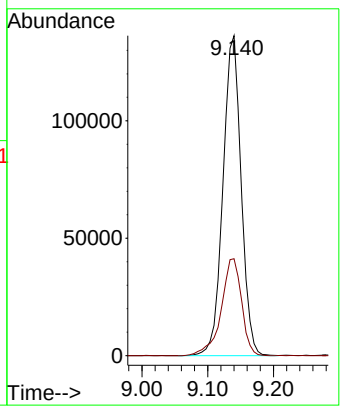




#45
1,2-Dichloropropane
Concen: 48.961 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 26240

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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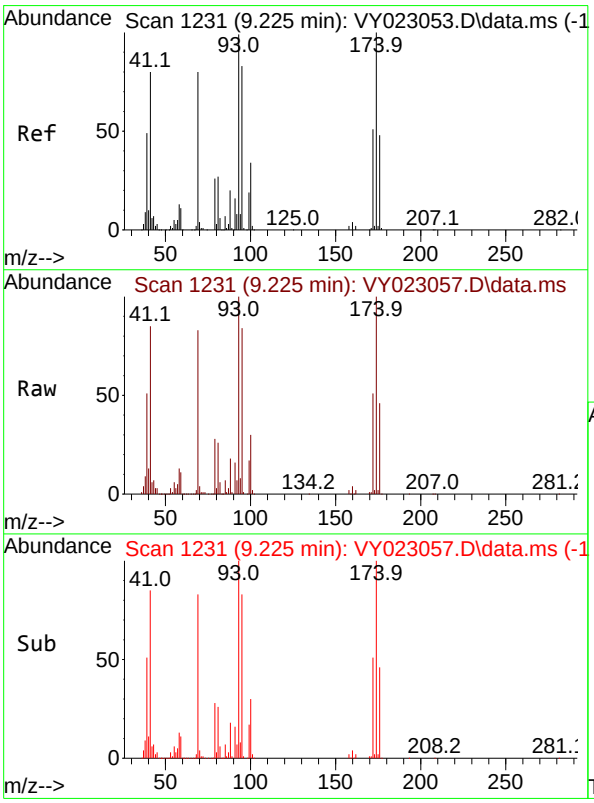
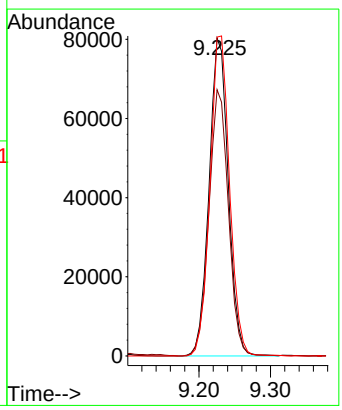
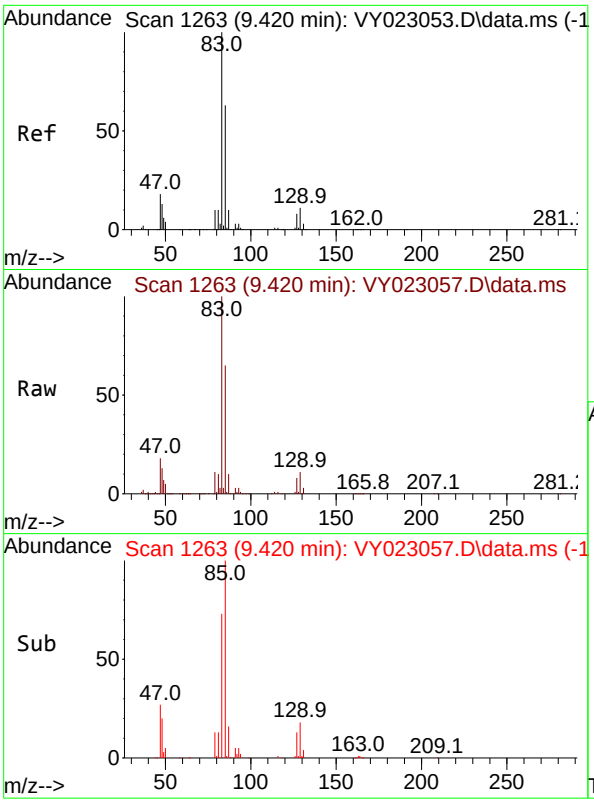


#46
Dibromomethane
Concen: 48.679 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

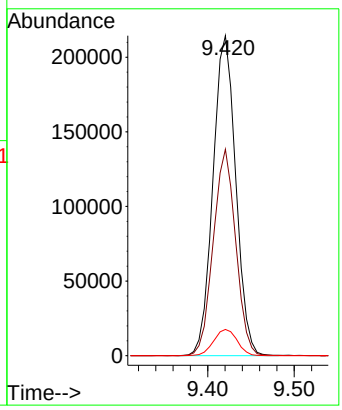




#47
Bromodichloromethane
Concen: 49.463 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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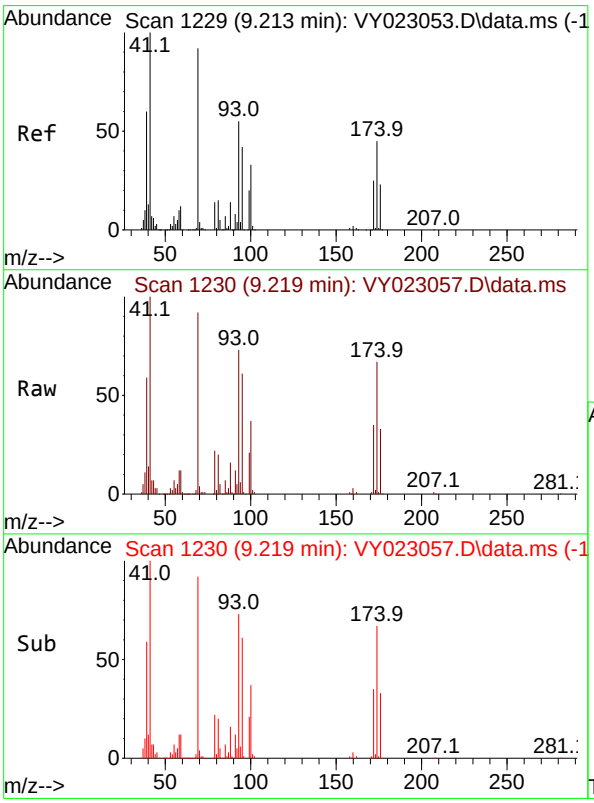
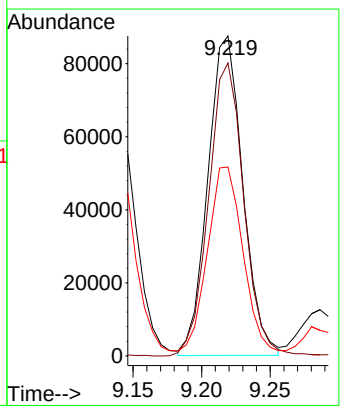
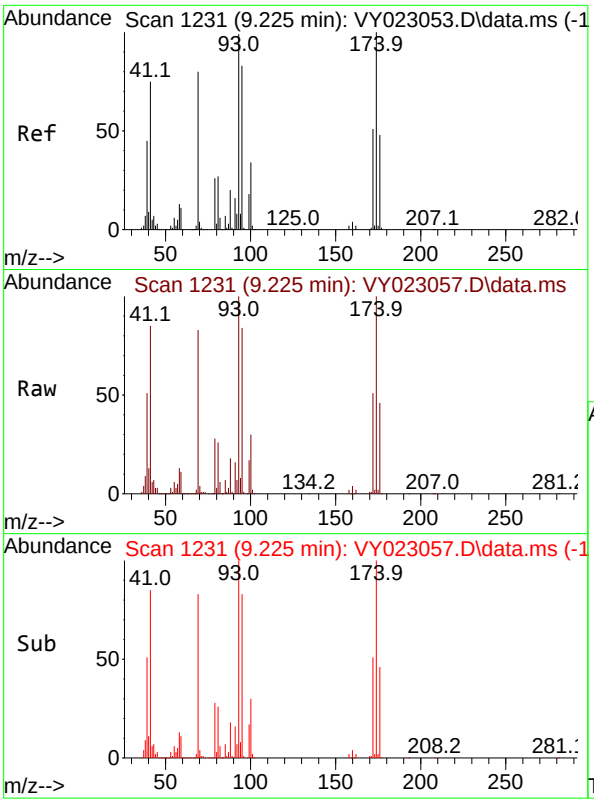


#48
Methyl methacrylate
Concen: 50.520 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

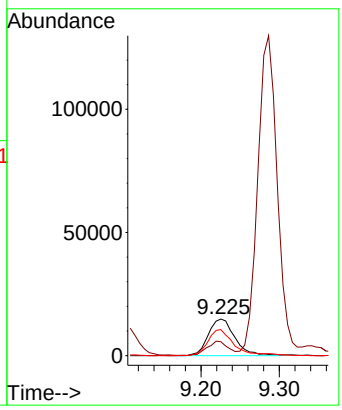




#49
1,4-Dioxane
Concen: 971.749 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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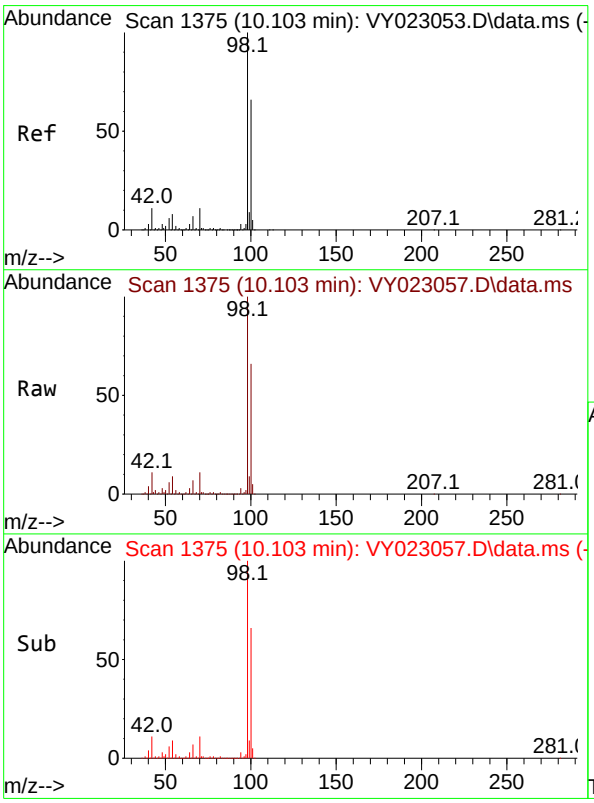
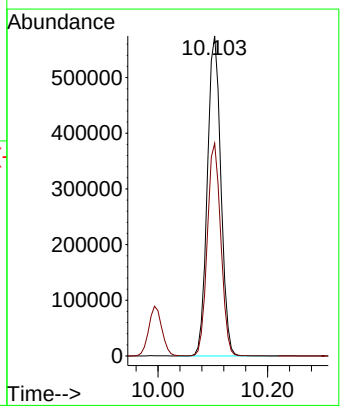
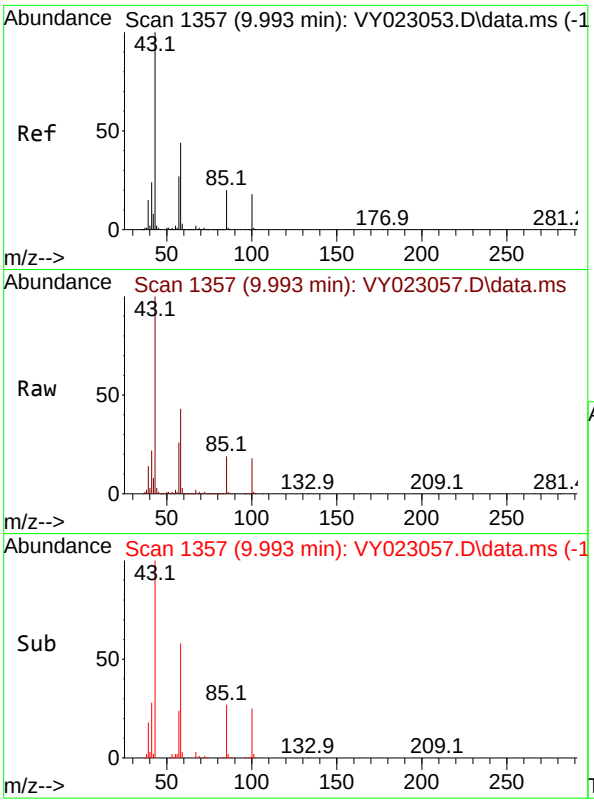


#50
Toluene-d8
Concen: 49.306 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 98 Resp: 979510

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.3	78.5

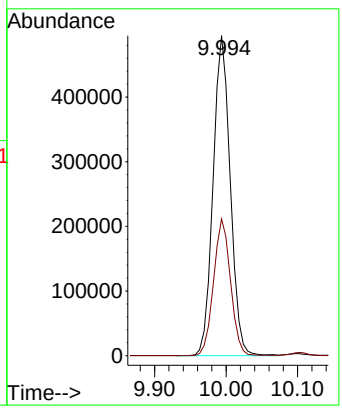




#51
4-Methyl-2-Pentanone
Concen: 248.943 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 82394

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
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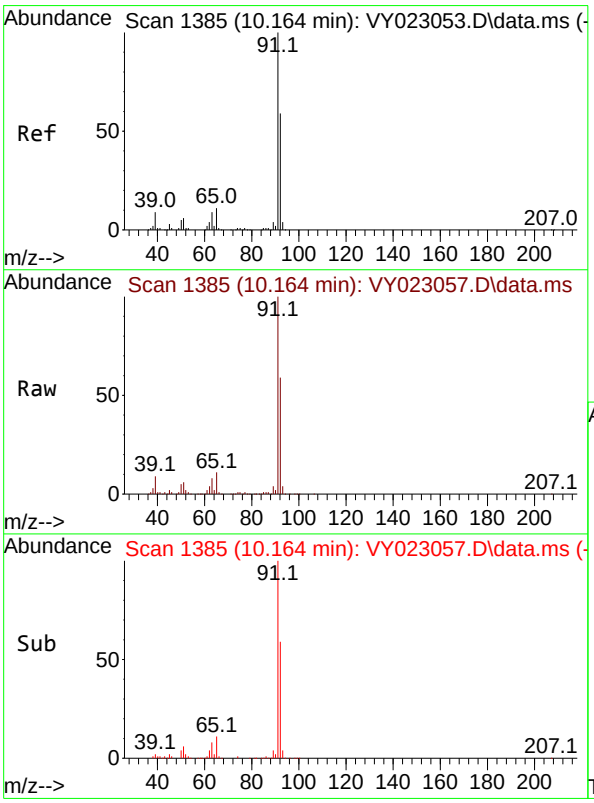
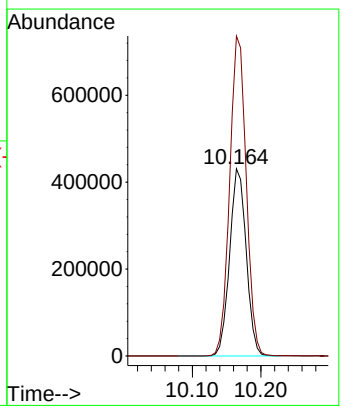
Supervised By :Semsettin Yesilyurt 08/14/2025

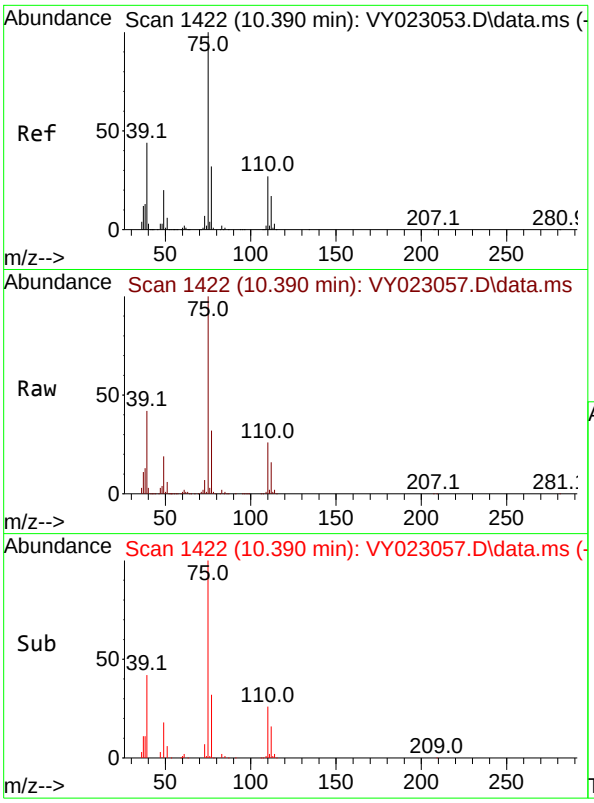


#52
Toluene
Concen: 48.963 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 92 Resp: 724356

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.4	204.6

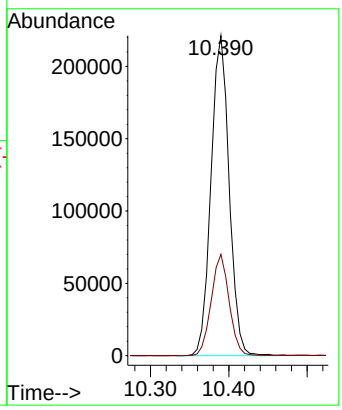




#53
t-1,3-Dichloropropene
Concen: 49.699 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 35622

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
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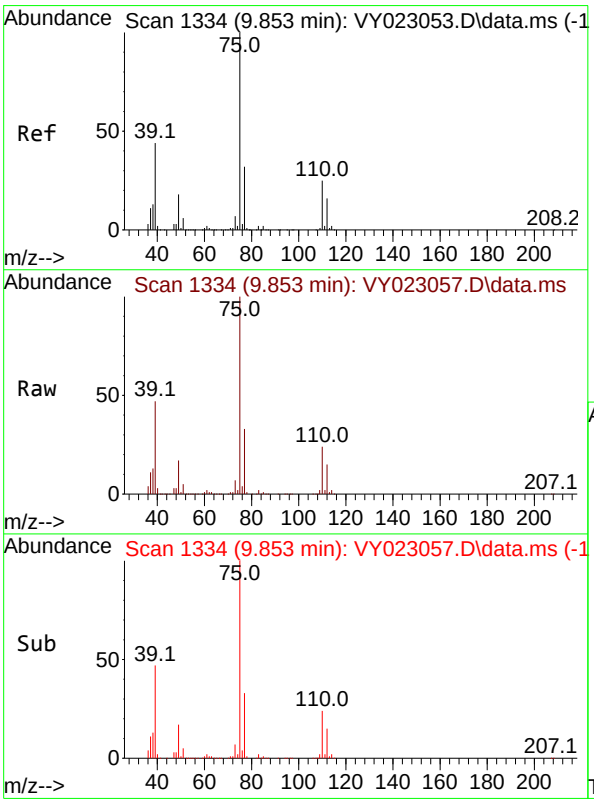
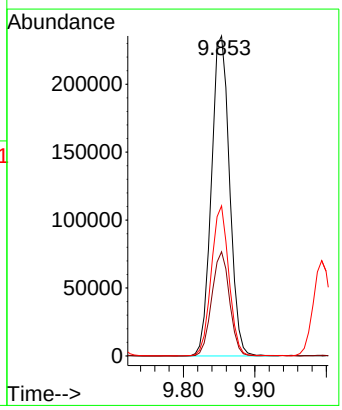
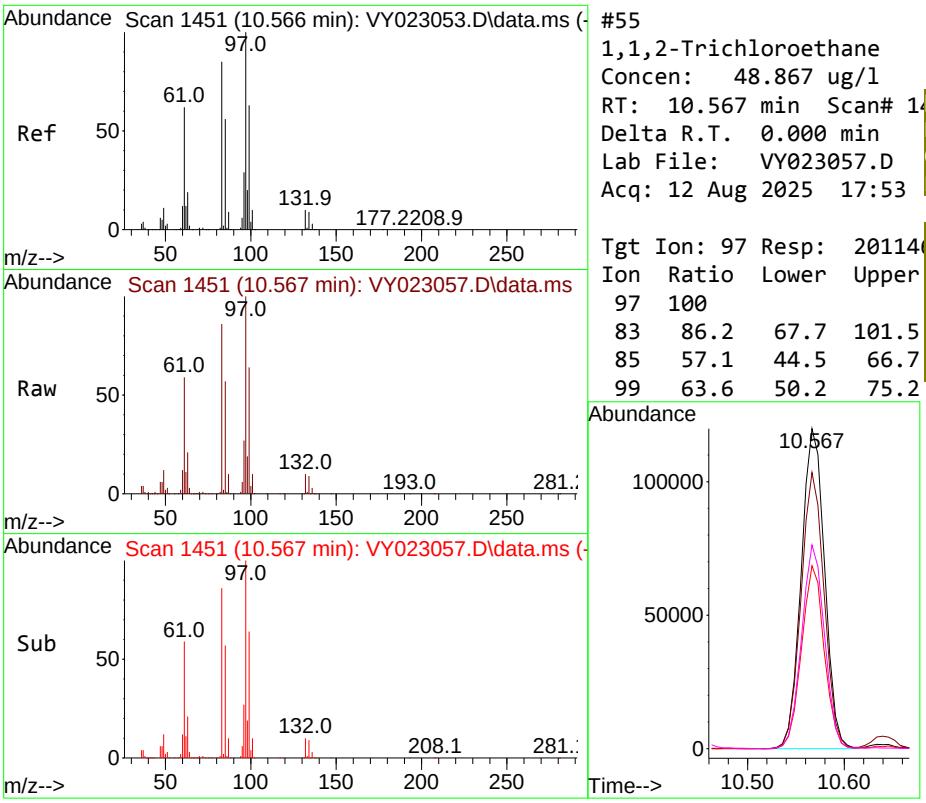


#54
cis-1,3-Dichloropropene
Concen: 48.965 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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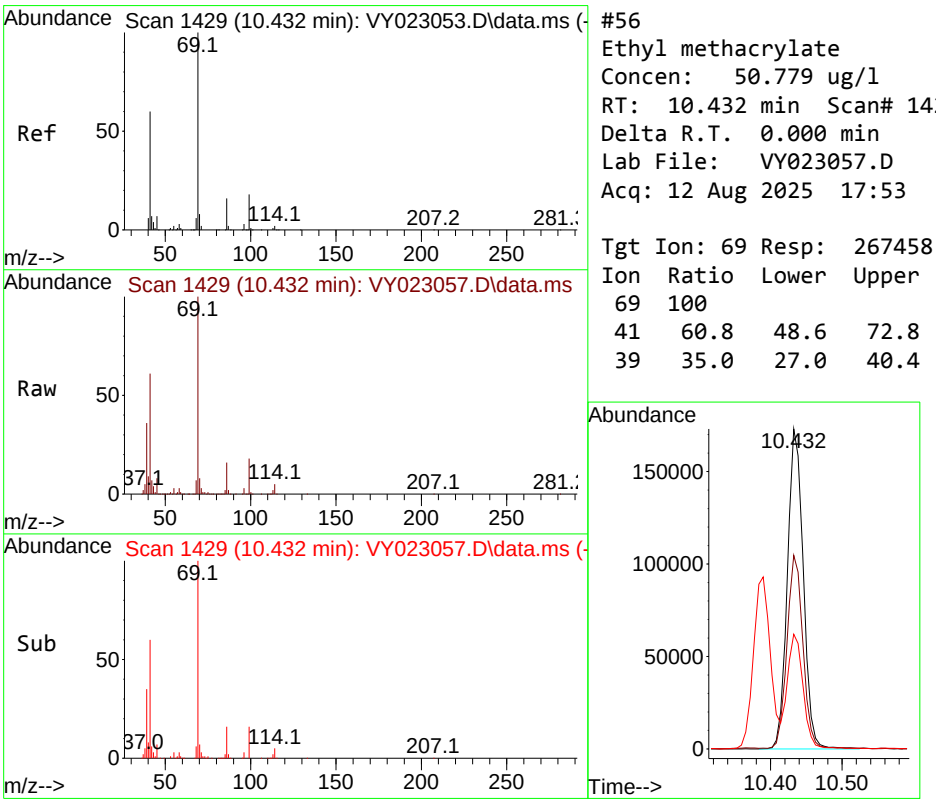
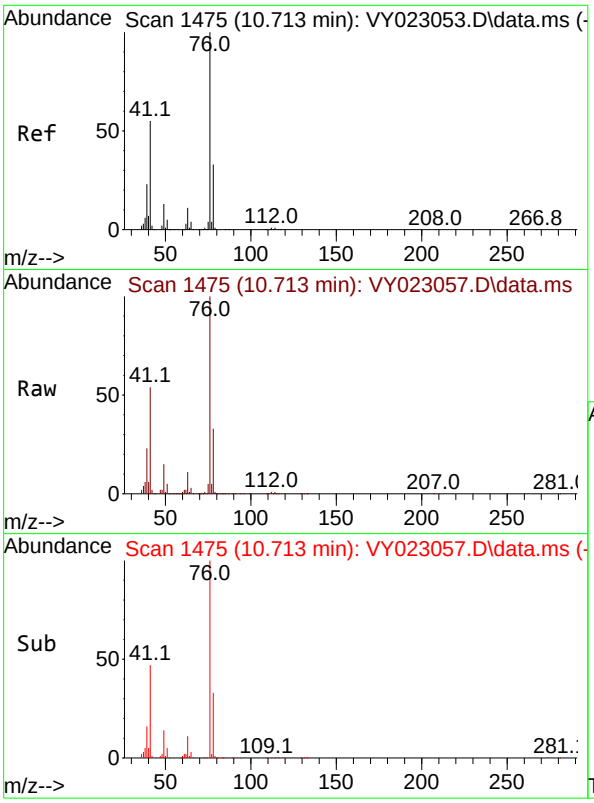


#56
Ethyl methacrylate
Concen: 50.779 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 69 Resp: 267458

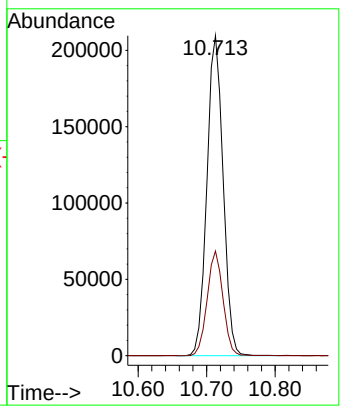
Ion	Ratio	Lower	Upper
69	100		
41	60.8	48.6	72.8
39	35.0	27.0	40.4



#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

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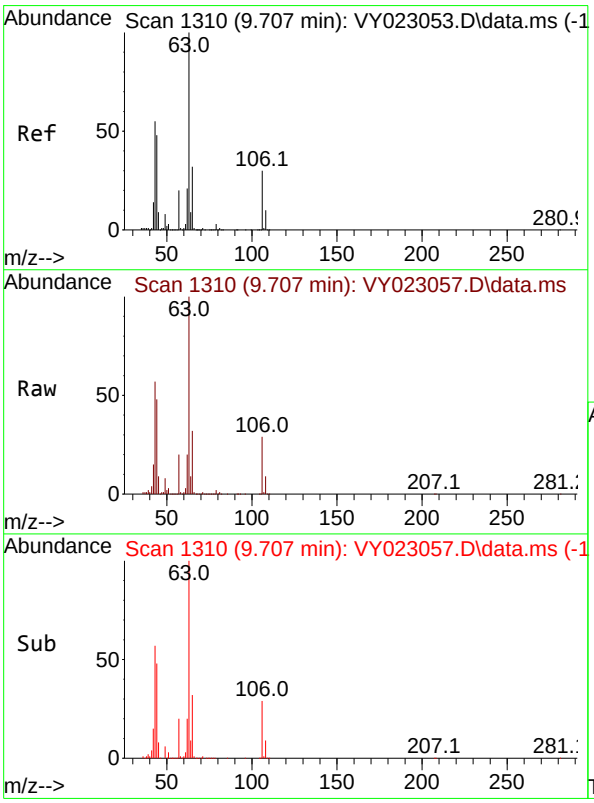
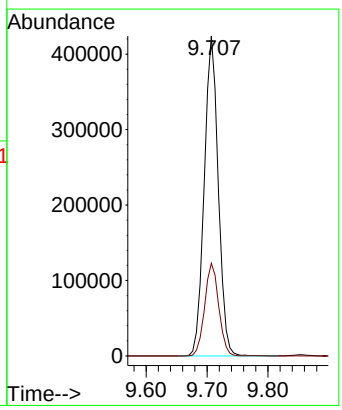
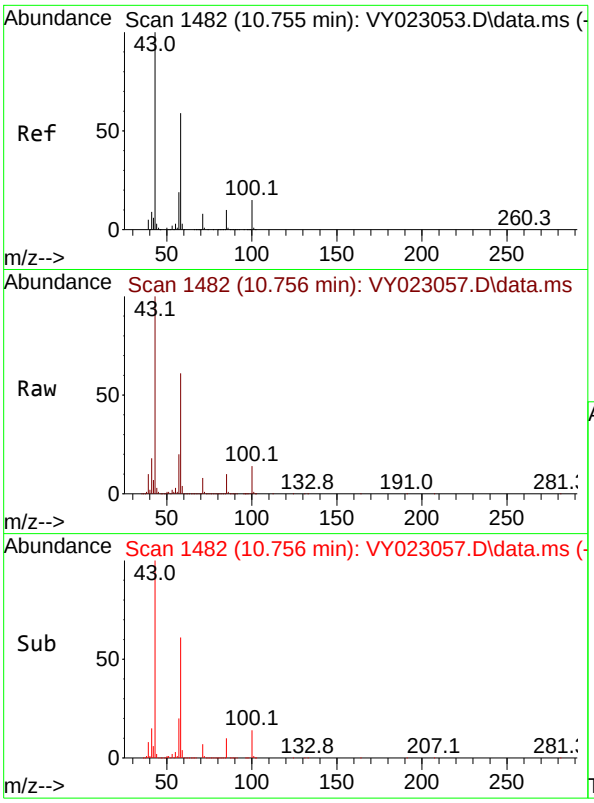


#58
2-Chloroethyl Vinyl ether
Concen: 273.240 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

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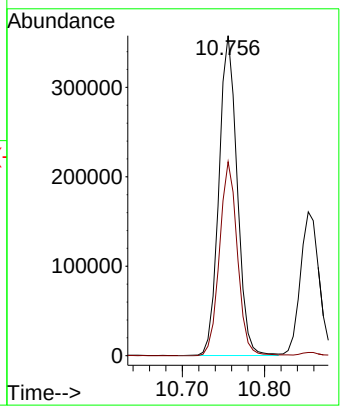
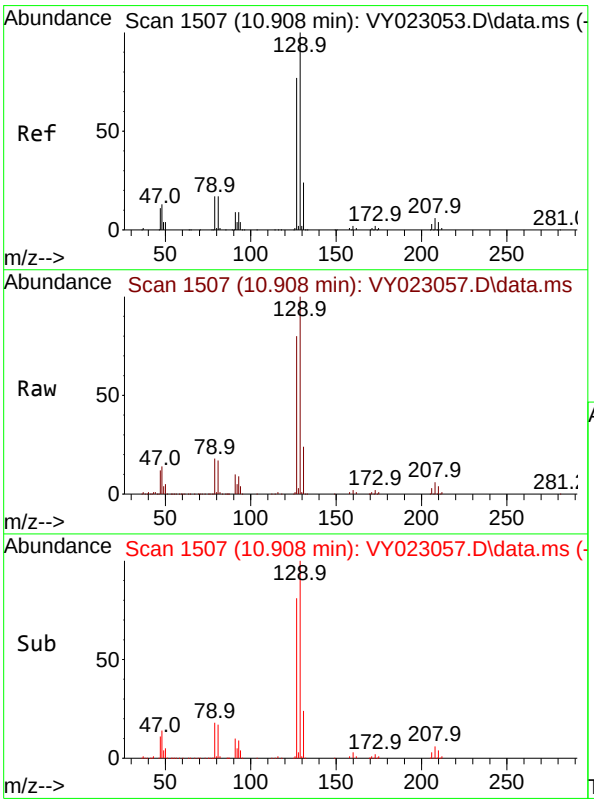
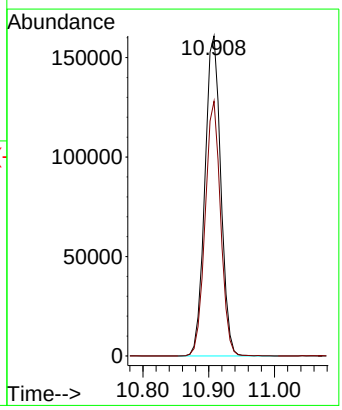


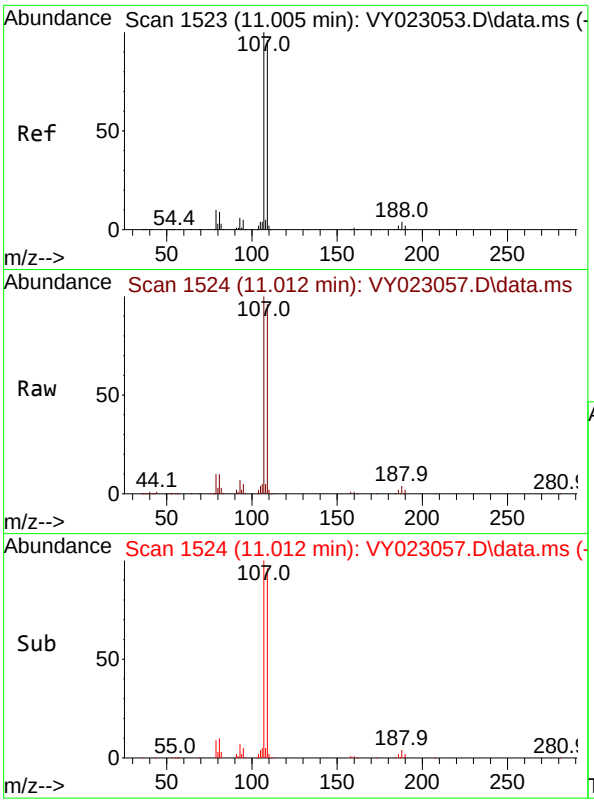


#60
Dibromochloromethane
Concen: 49.810 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:129 Resp: 270536

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5

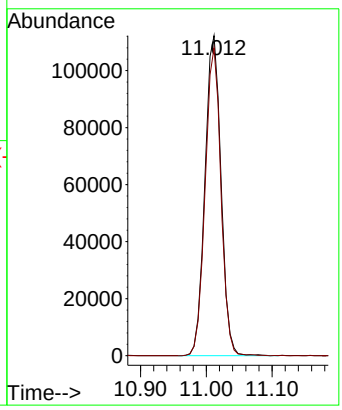




#61
1,2-Dibromoethane
Concen: 49.197 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:107 Resp: 19033

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4



Instrument :
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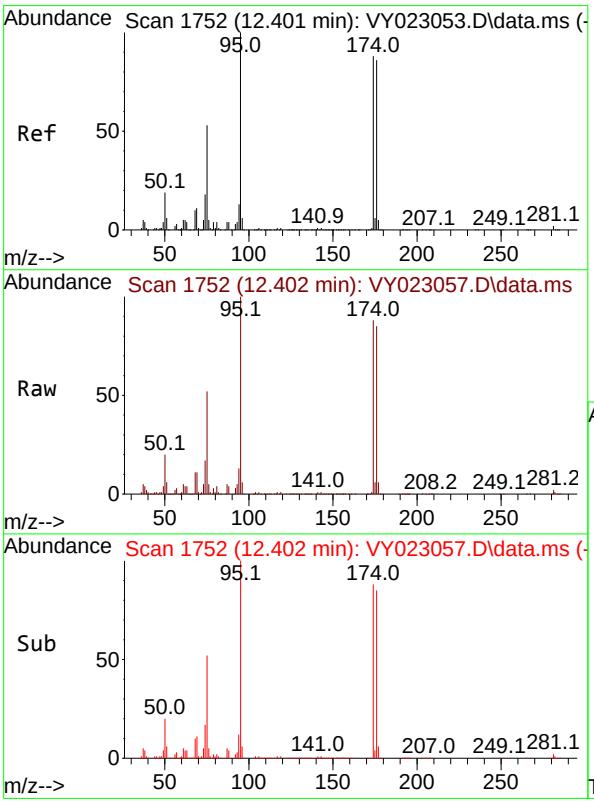
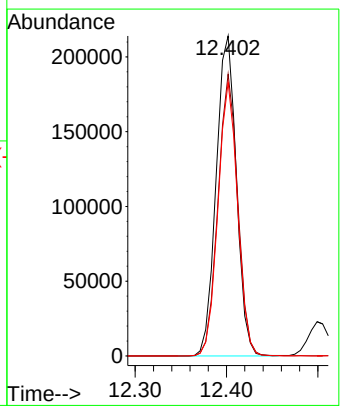
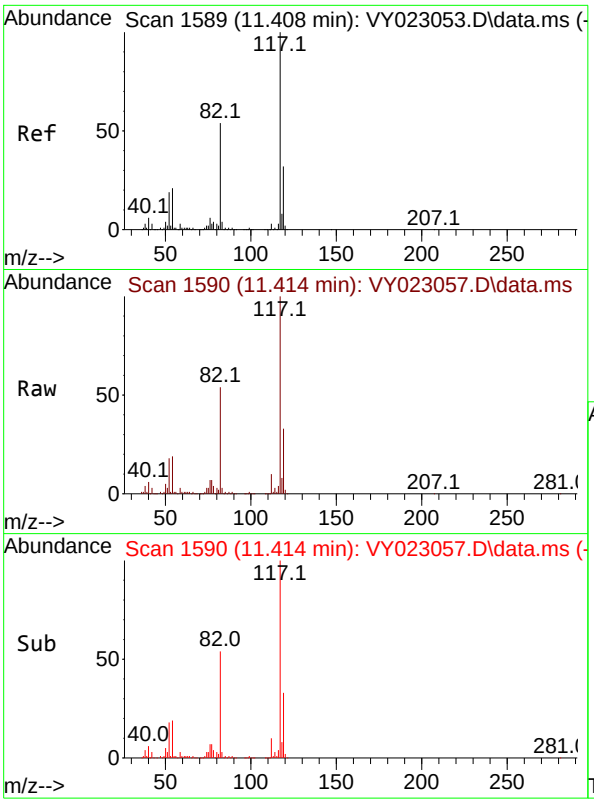


#62
4-Bromofluorobenzene
Concen: 51.500 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

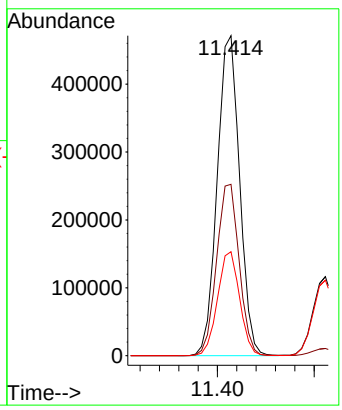




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
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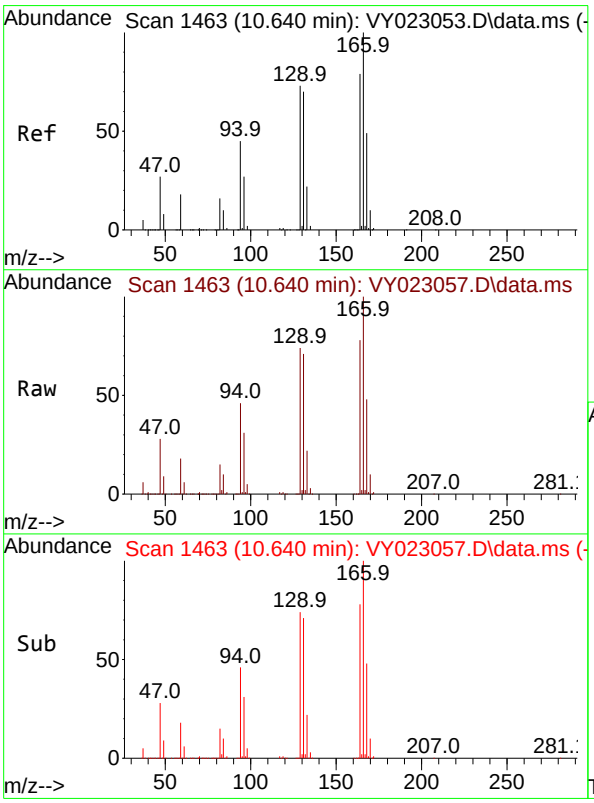
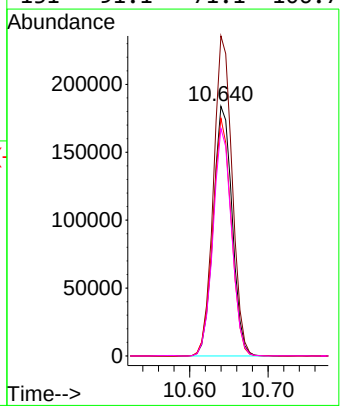
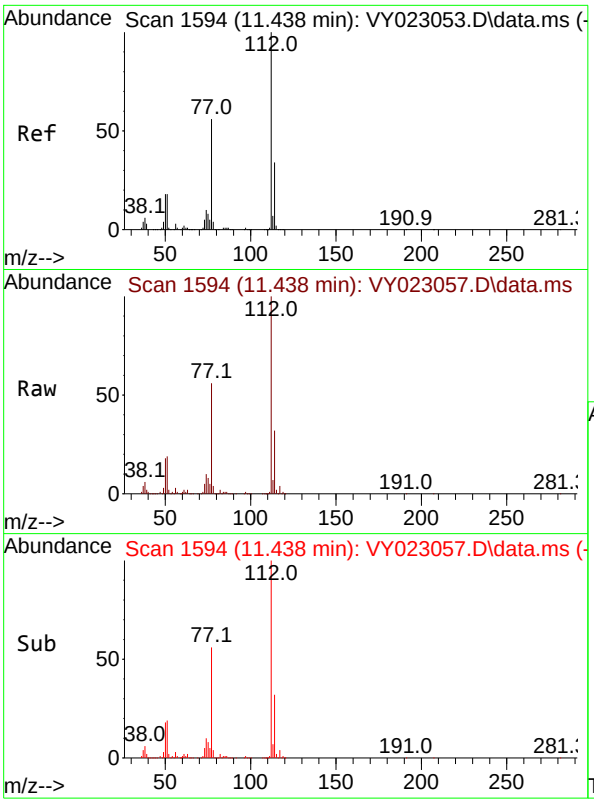


#64
Tetrachloroethene
Concen: 45.512 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

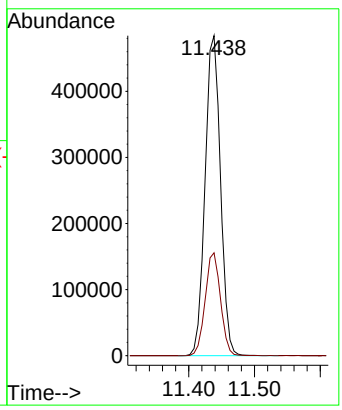




#65
Chlorobenzene
Concen: 48.275 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:112 Resp: 78779

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
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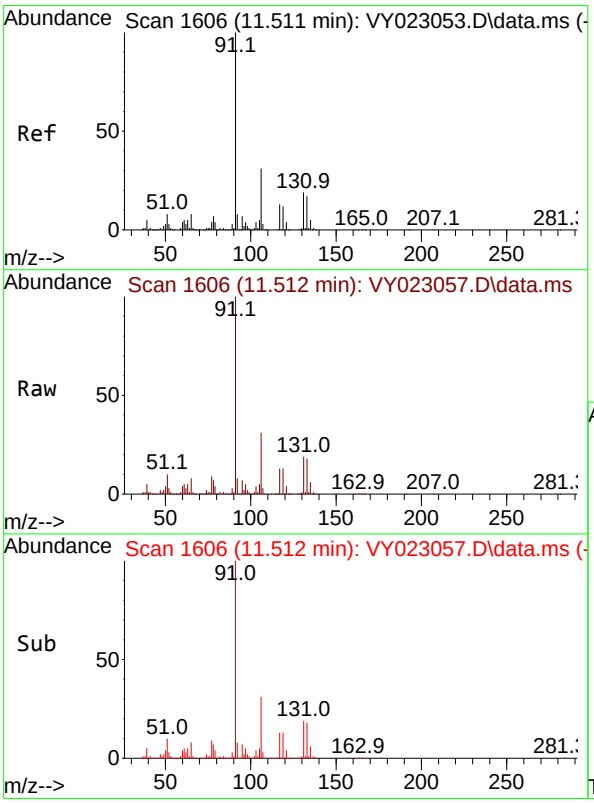
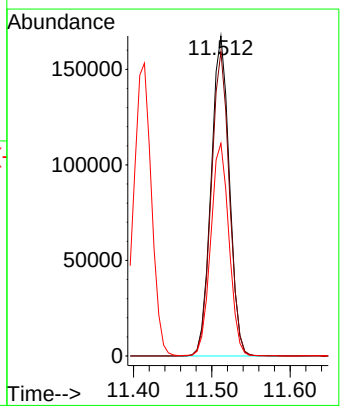
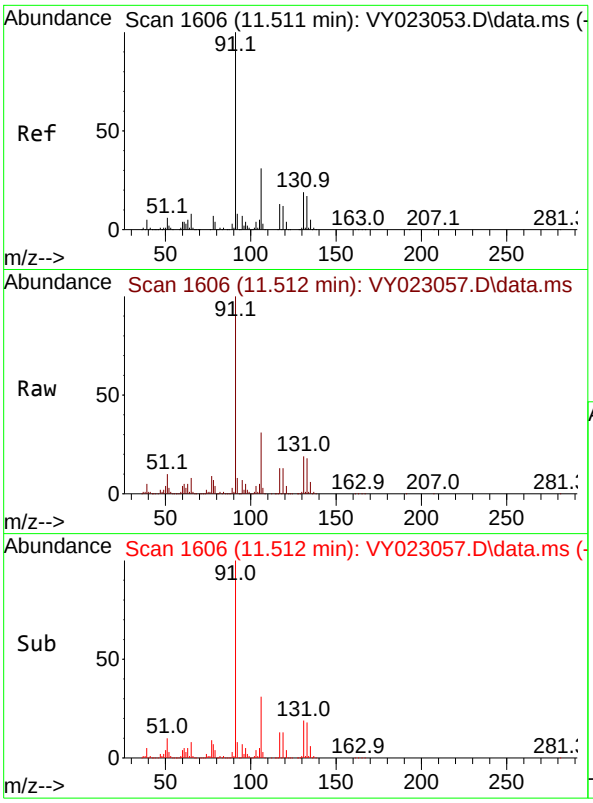


#66
1,1,1,2-Tetrachloroethane
Concen: 48.815 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

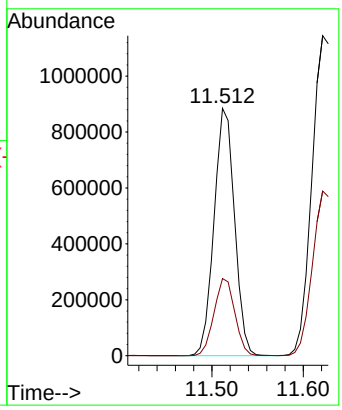




#67
Ethyl Benzene
Concen: 49.163 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 138064

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
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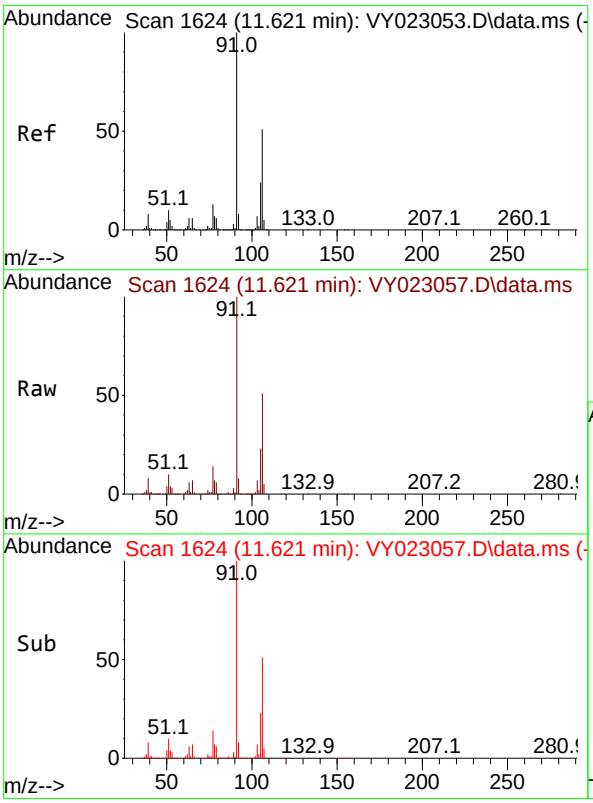
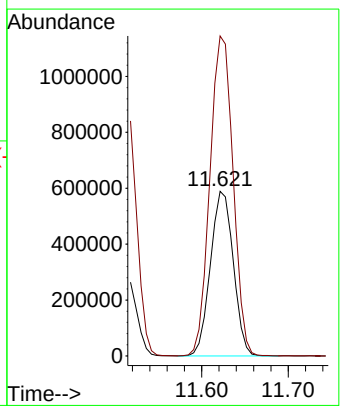
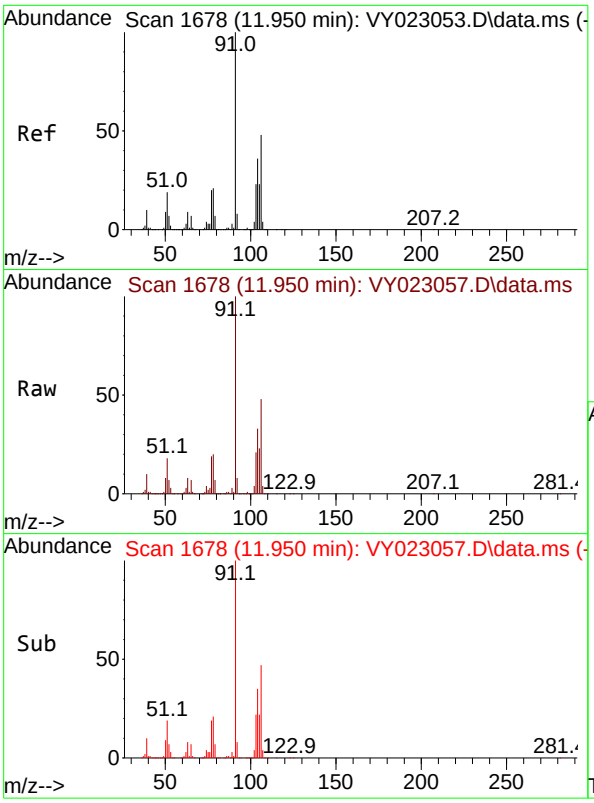


#68
m/p-Xylenes
Concen: 98.515 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
ICVVY081225

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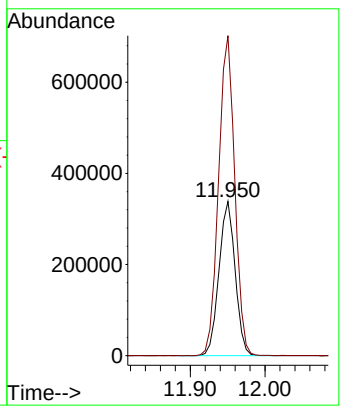
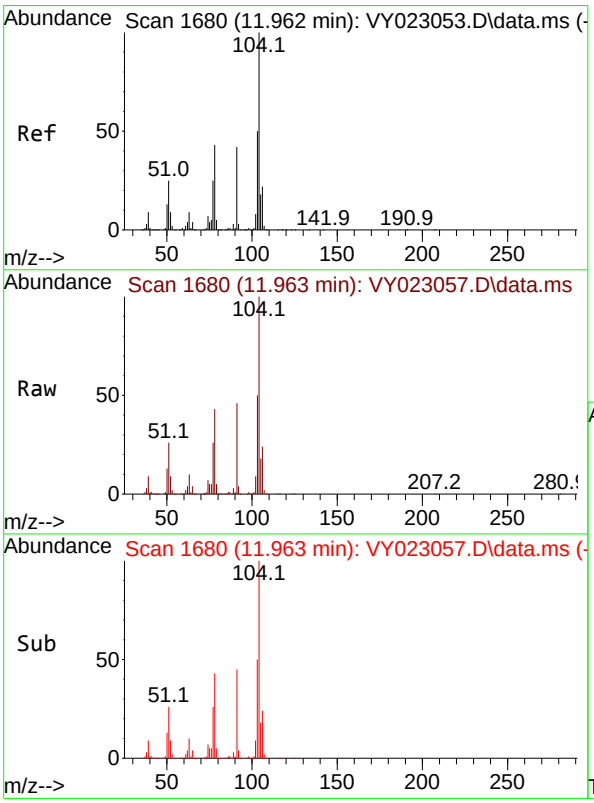
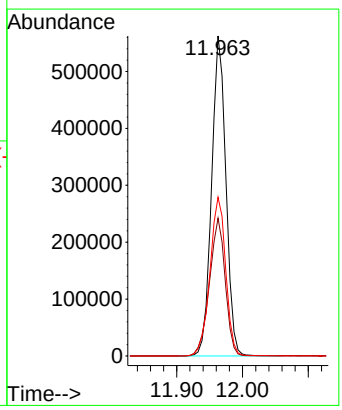


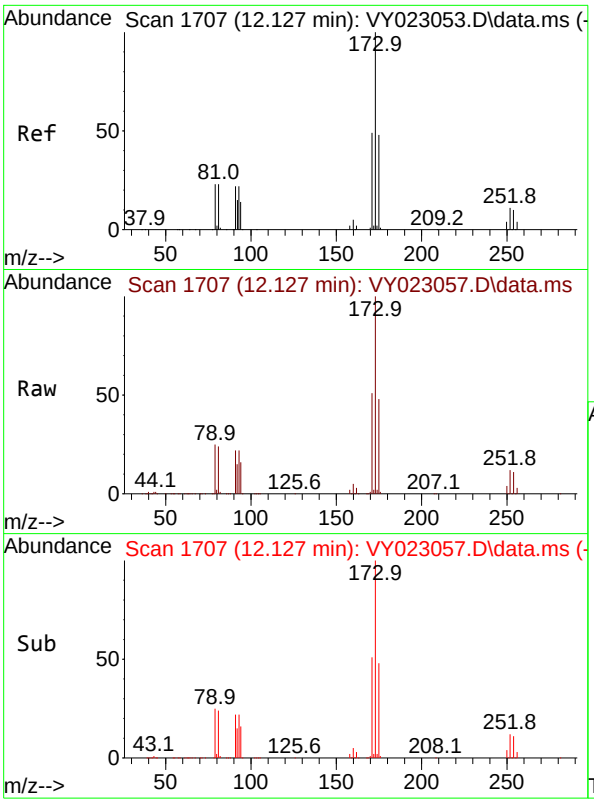


#70
Styrene
Concen: 50.733 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

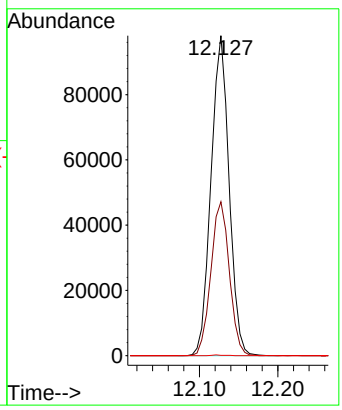




#71
Bromoform
Concen: 48.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
ICVVY081225

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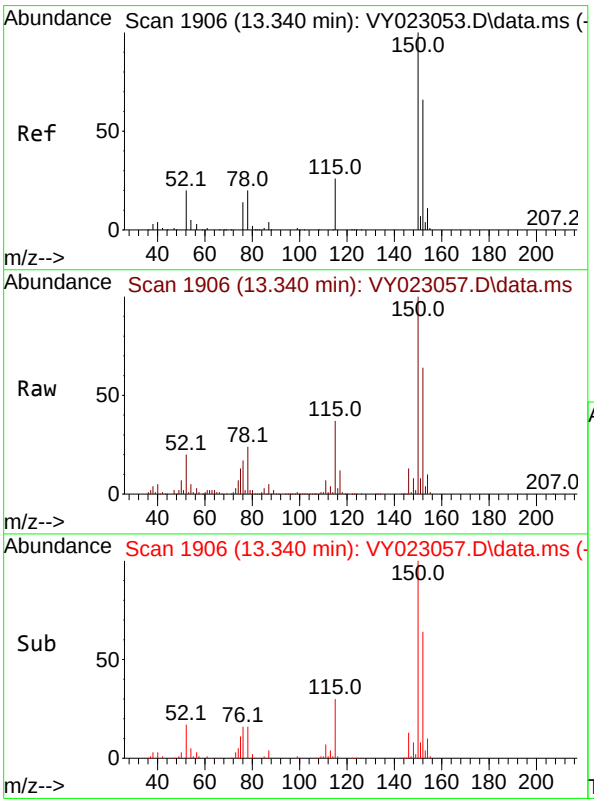
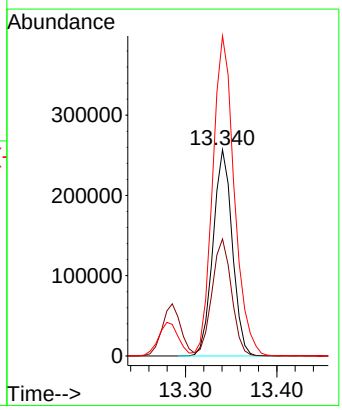
Supervised By :Semsettin Yesilyurt 08/14/2025

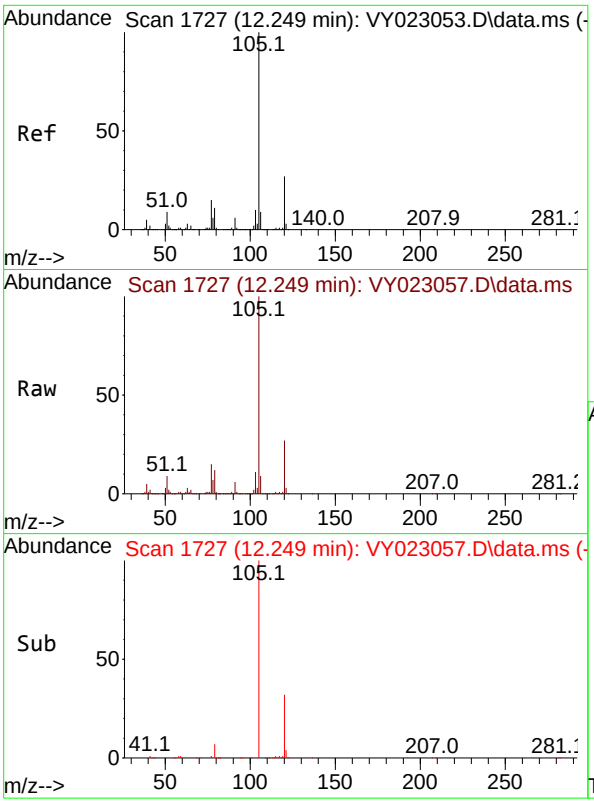


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

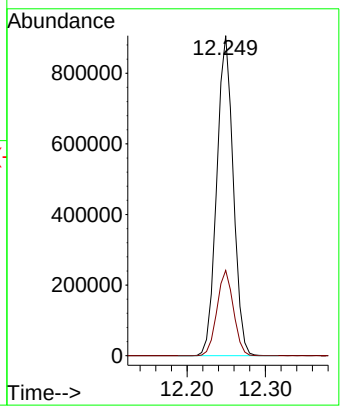




#73
Isopropylbenzene
Concen: 49.876 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 132707

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.4	40.2



Instrument :
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ClientSampleId :
ICVVY081225

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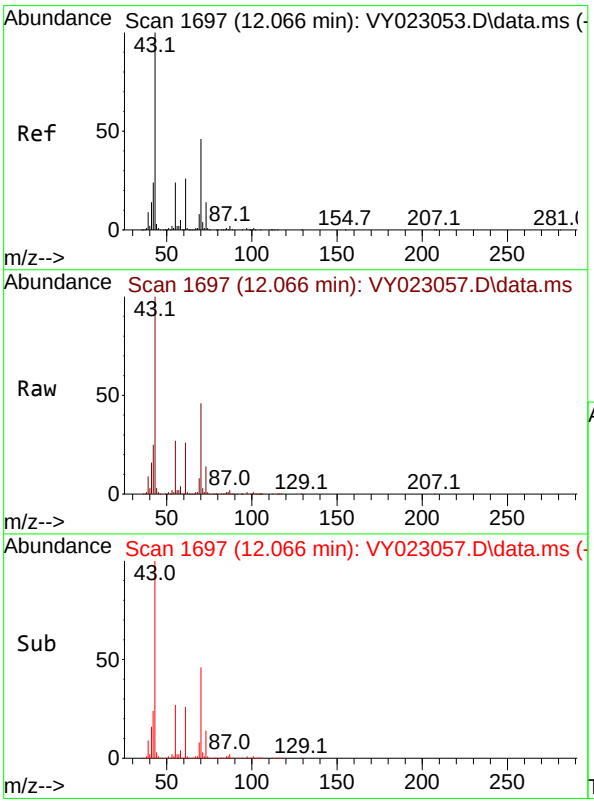
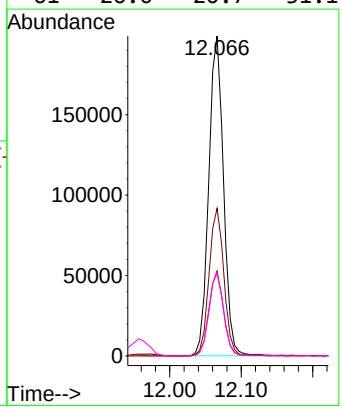
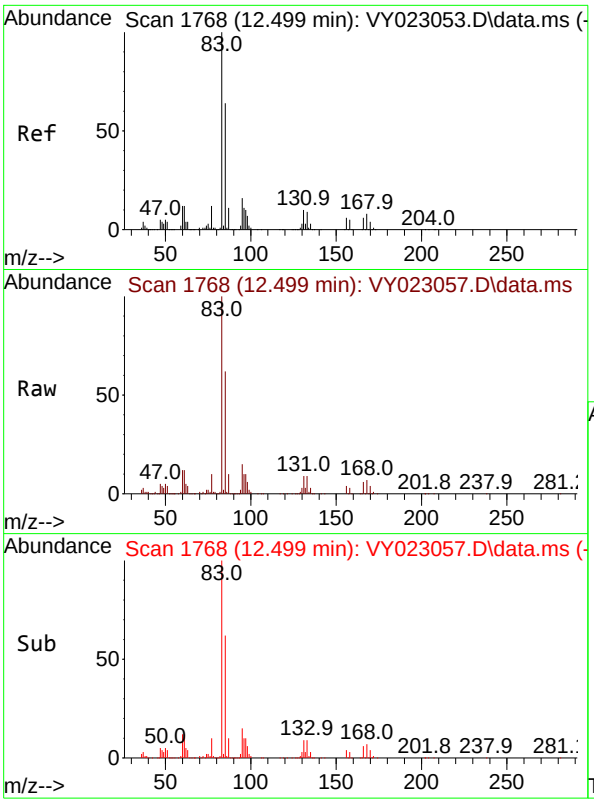


#74
N-amyl acetate
Concen: 50.529 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

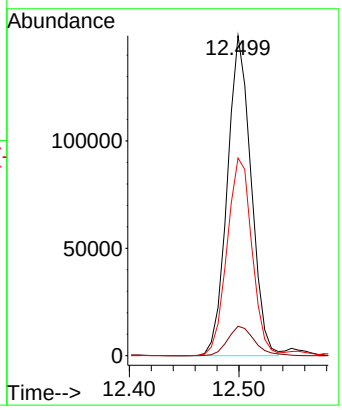




#75
1,1,2,2-Tetrachloroethane
Concen: 49.350 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
ICVVY081225

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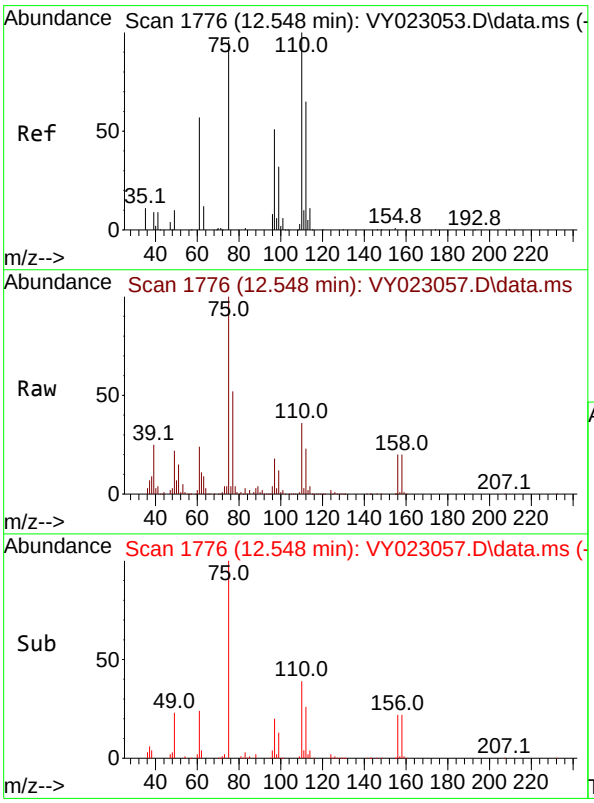
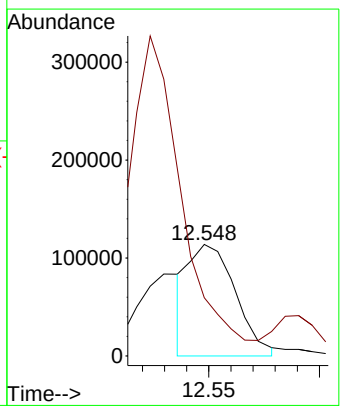
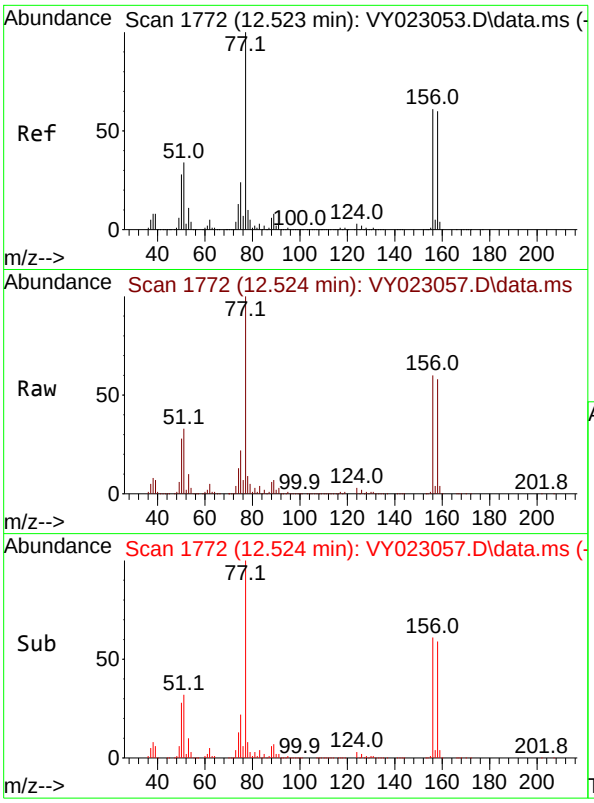


#76
1,2,3-Trichloropropane
Concen: 46.136 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 167859

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

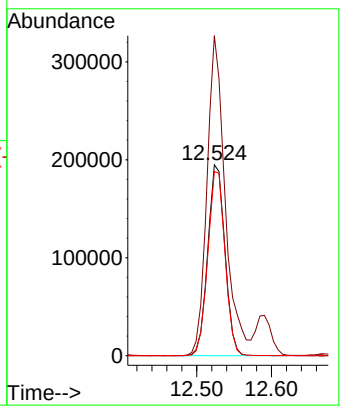




#77
Bromobenzene
Concen: 49.004 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
MSVOA_Y
ClientSampleId :
ICVVY081225

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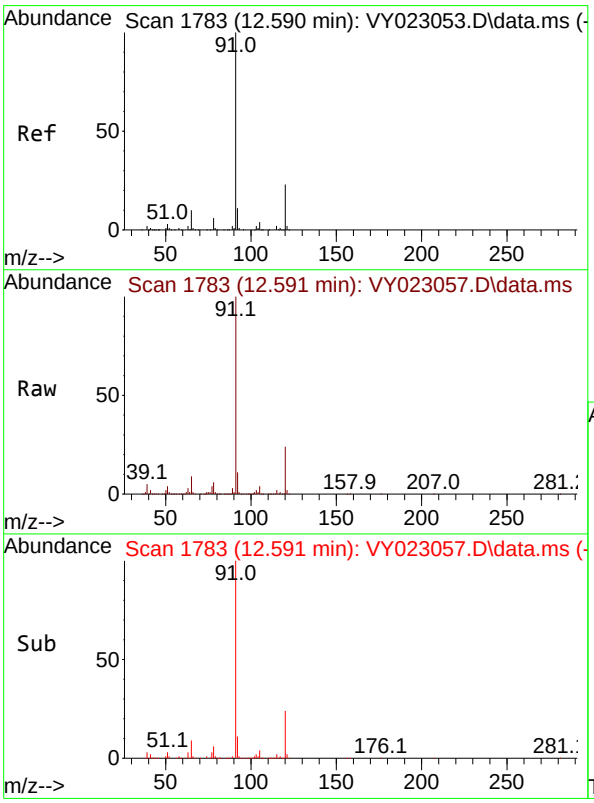
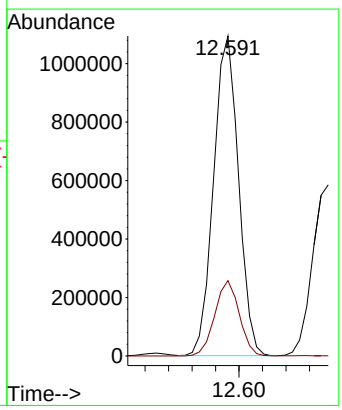
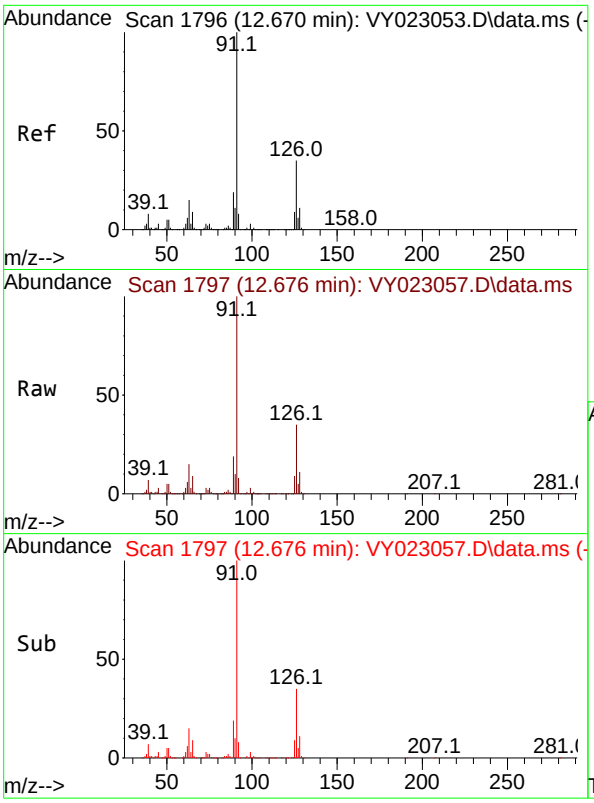


#78
n-propylbenzene
Concen: 50.853 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 1610911

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5

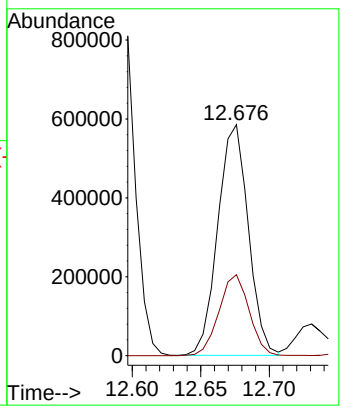




#79
2-Chlorotoluene
Concen: 49.898 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 90565

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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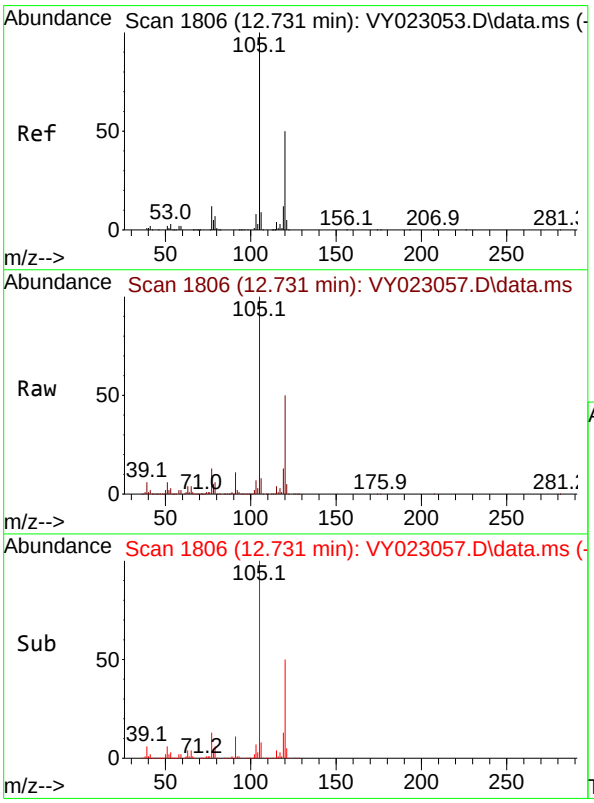
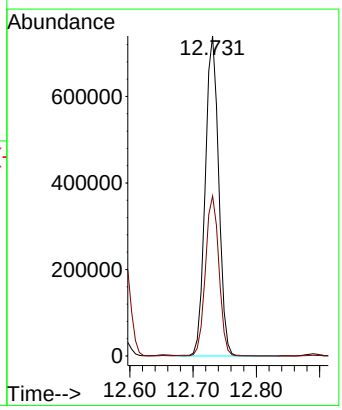
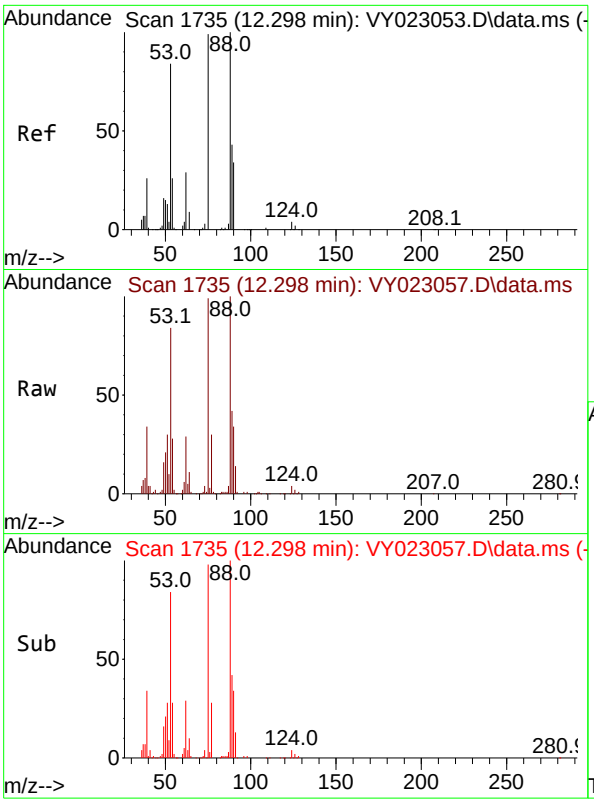


#80
1,3,5-Trimethylbenzene
Concen: 50.916 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1094902

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4

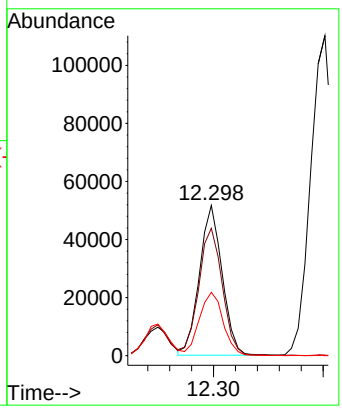




#81
trans-1,4-Dichloro-2-butene
Concen: 49.409 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

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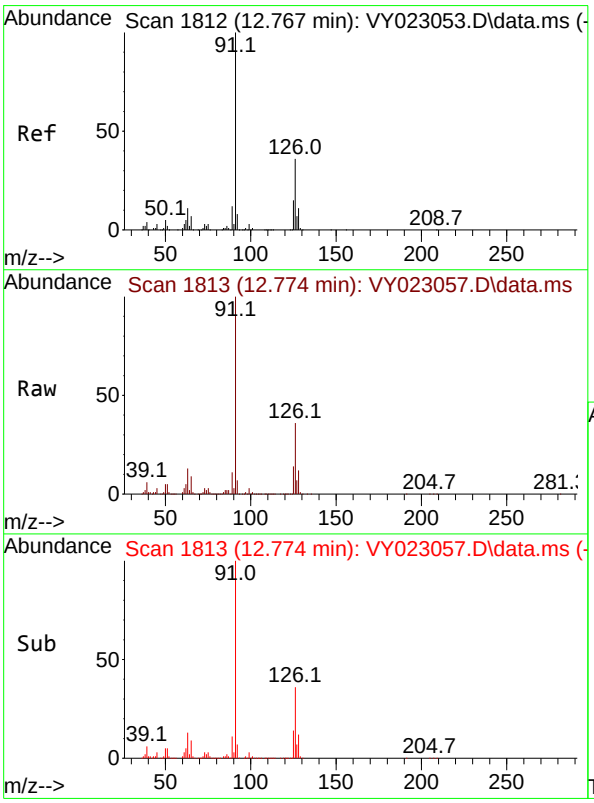
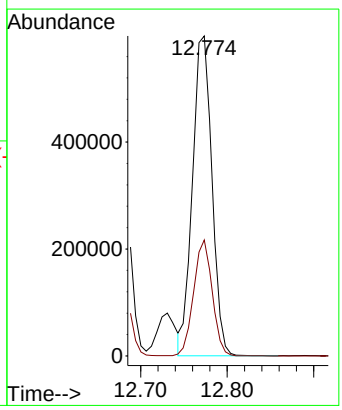
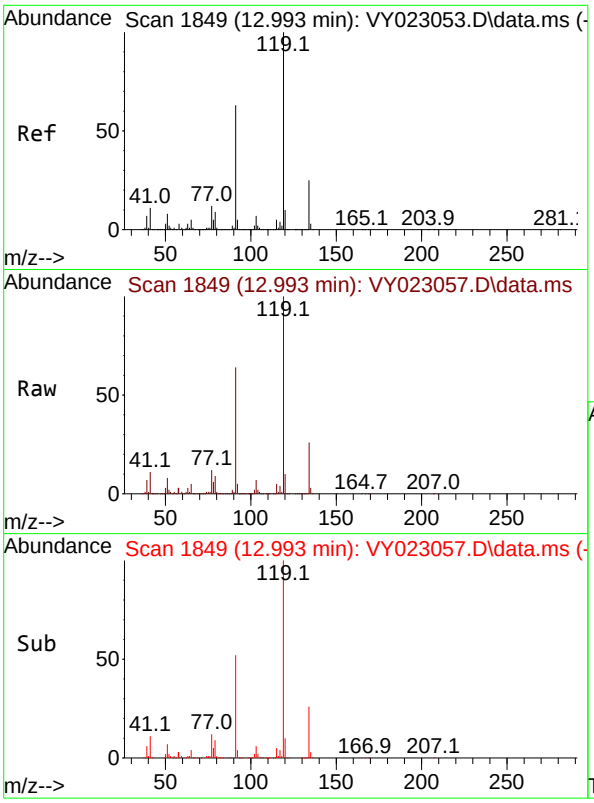


#82
4-Chlorotoluene
Concen: 49.505 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 932114

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0

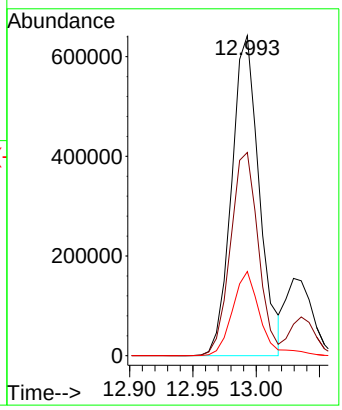




#83
tert-Butylbenzene
Concen: 50.443 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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 :
ICVVY081225

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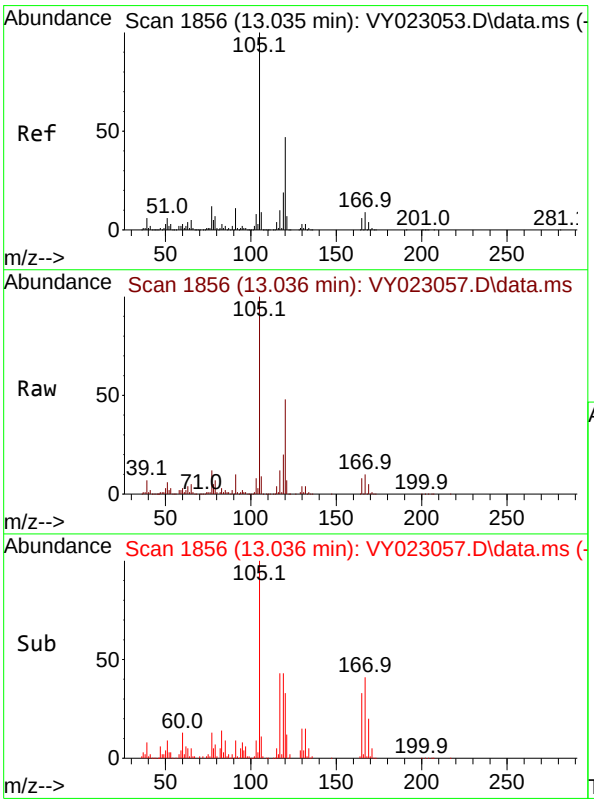
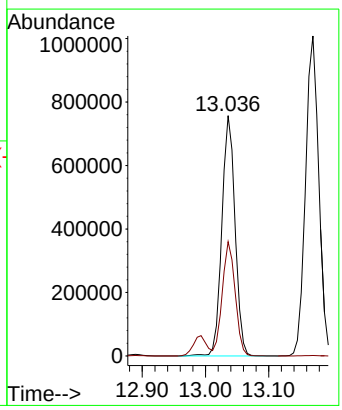
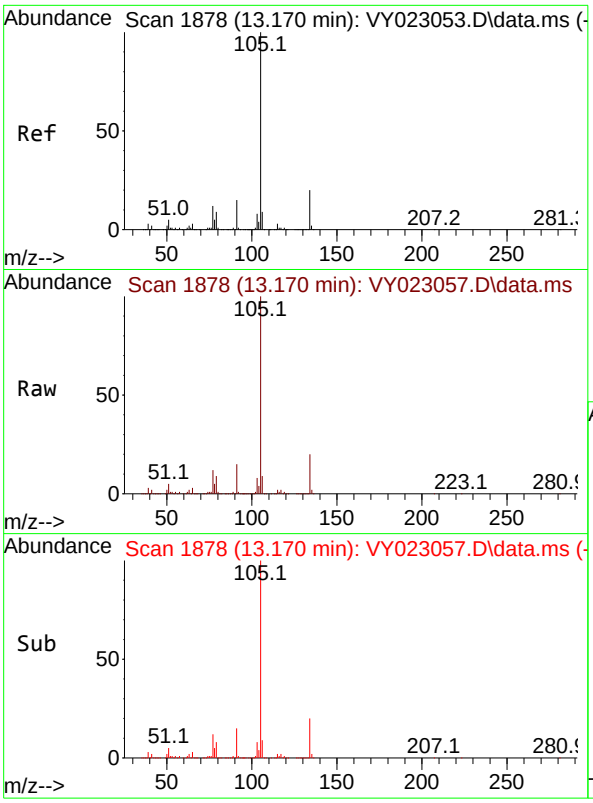


#84
1,2,4-Trimethylbenzene
Concen: 51.042 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1092616

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0

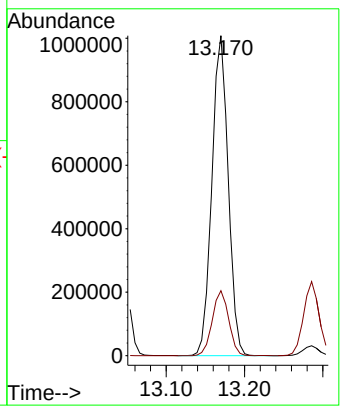




#85
sec-Butylbenzene
Concen: 51.154 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 145943

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

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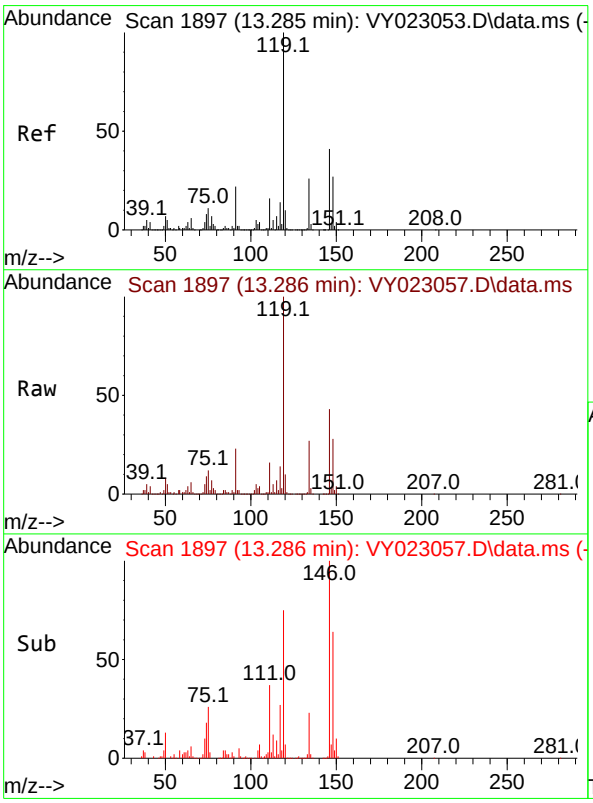
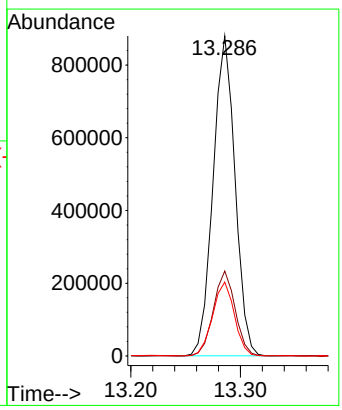
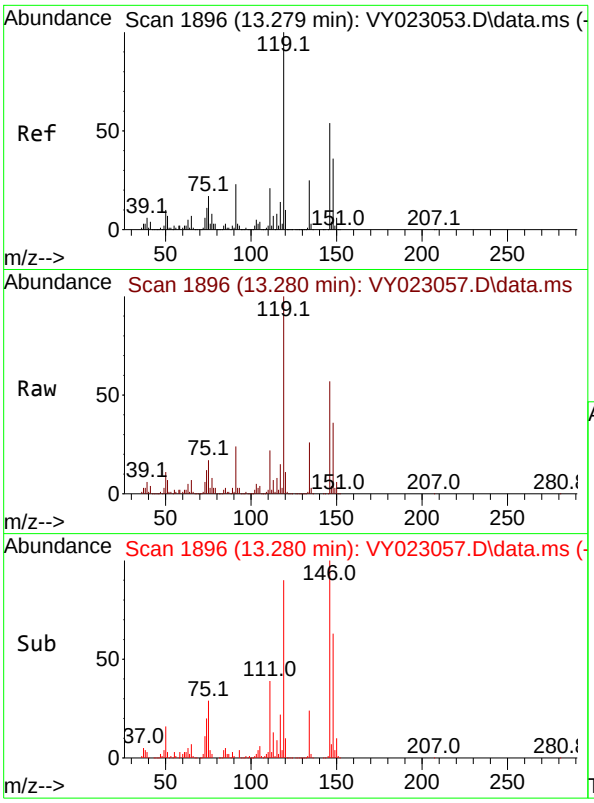


#86
p-Isopropyltoluene
Concen: 51.639 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

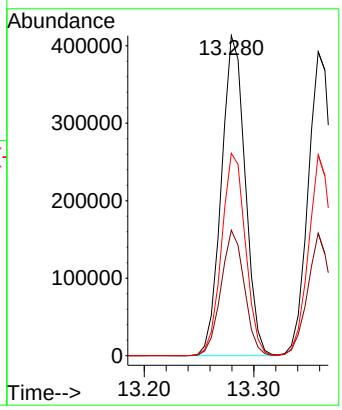




#87
1,3-Dichlorobenzene
Concen: 49.639 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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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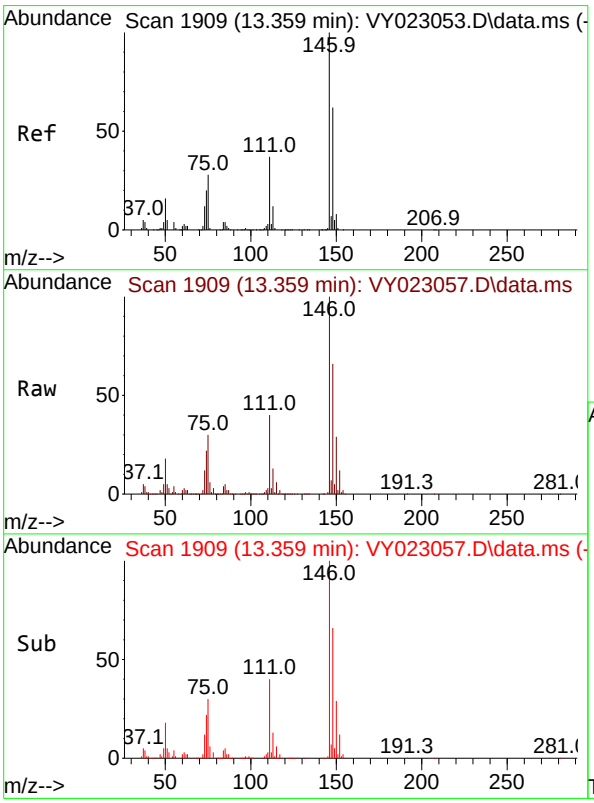
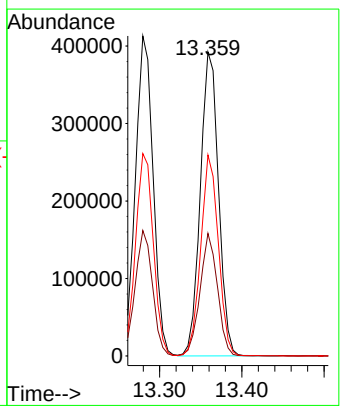
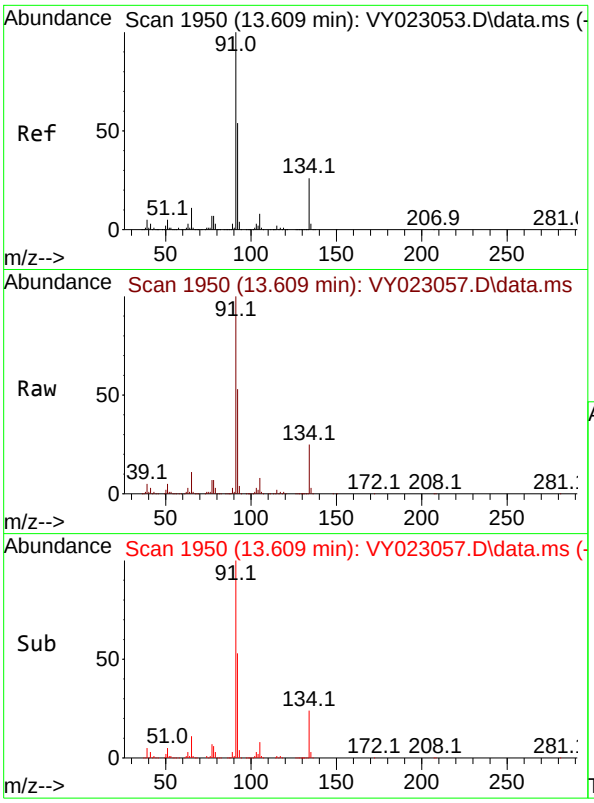


#88
1,4-Dichlorobenzene
Concen: 48.514 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

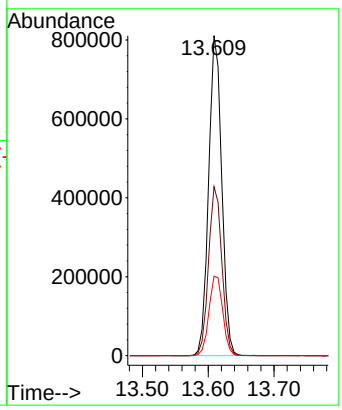




#89
n-Butylbenzene
Concen: 51.594 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 112218

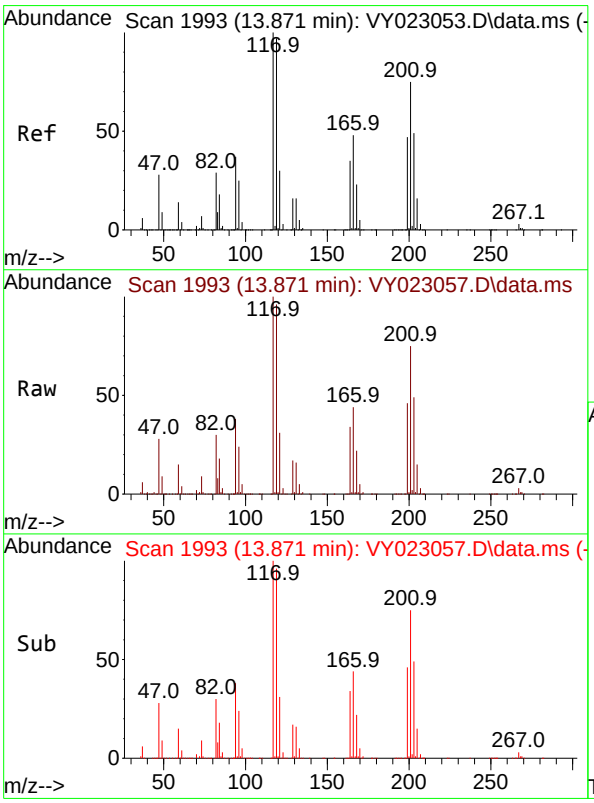
Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.9	80.7
134	26.2	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations APPROVED

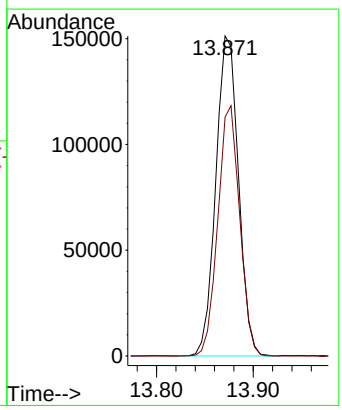
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

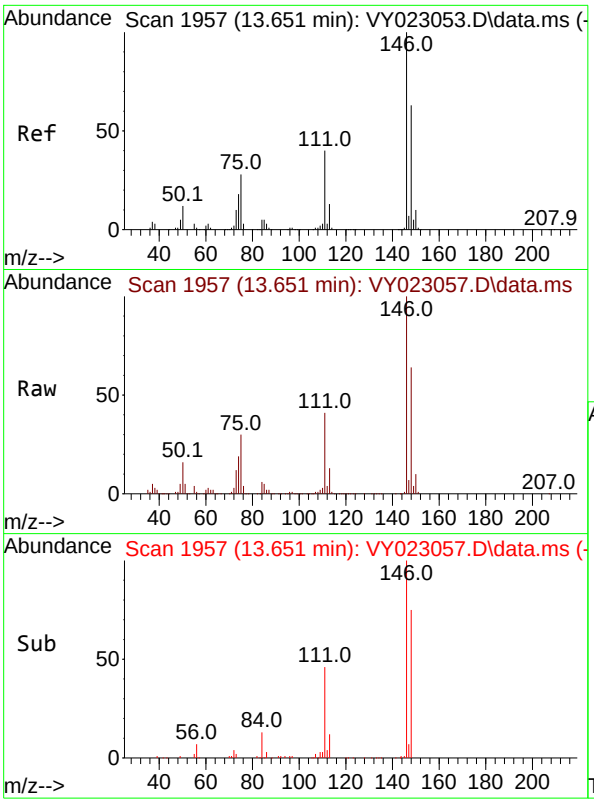


#90
Hexachloroethane
Concen: 50.617 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 245386

Ion	Ratio	Lower	Upper
117	100		
201	75.7	38.4	115.1

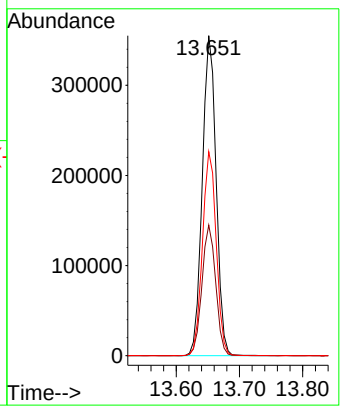




#91
1,2-Dichlorobenzene
Concen: 49.234 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 54050

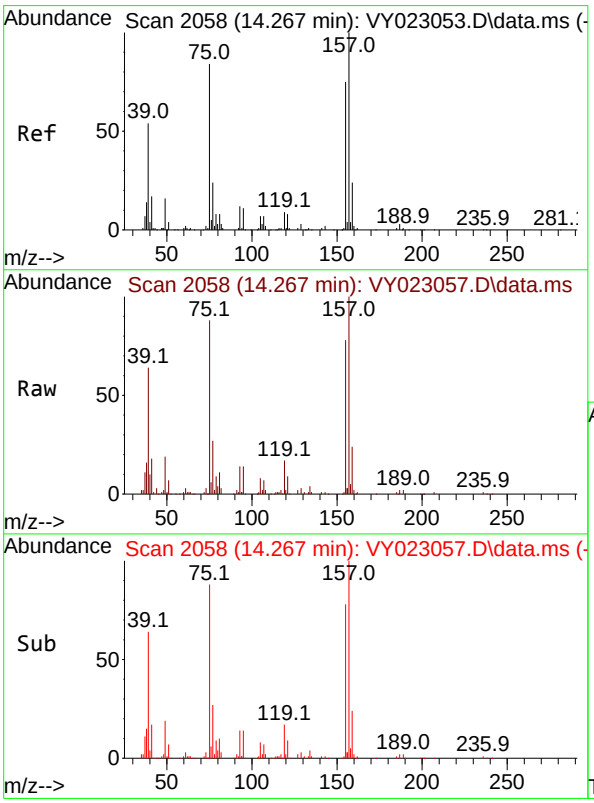
Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.8
148	63.5	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

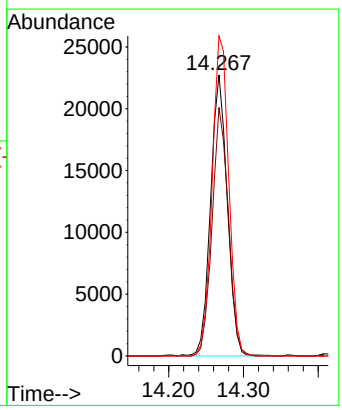
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

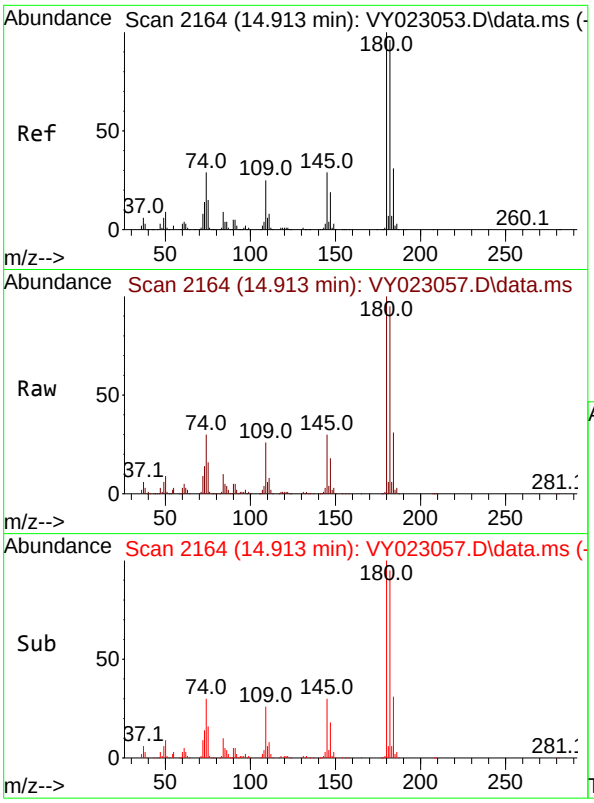


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.085 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

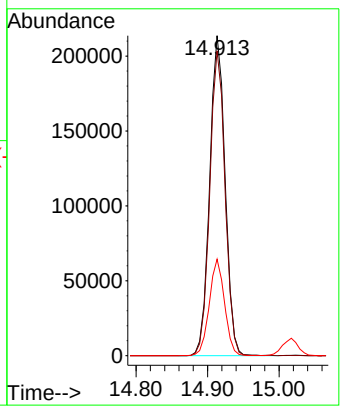
Tgt Ion:180 Resp: 32047

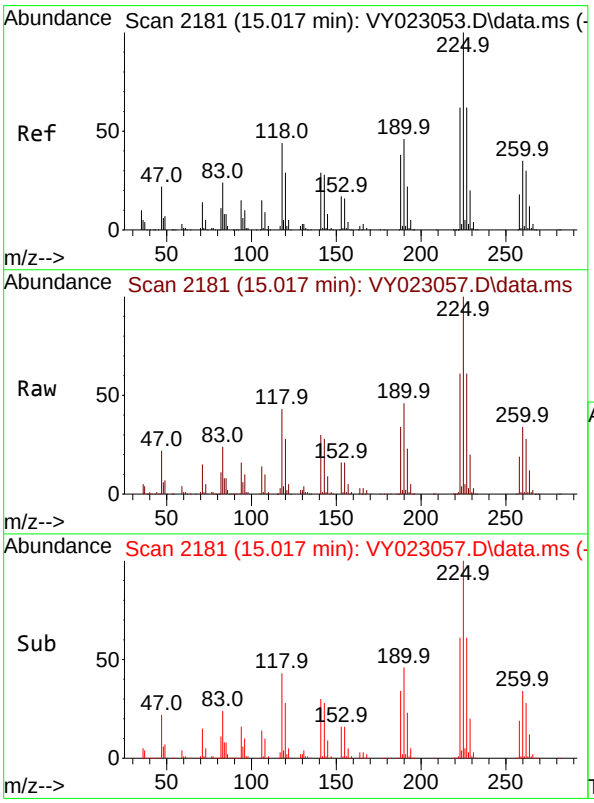
Ion	Ratio	Lower	Upper
180	100		
182	94.2	46.8	140.4
145	29.8	14.4	43.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

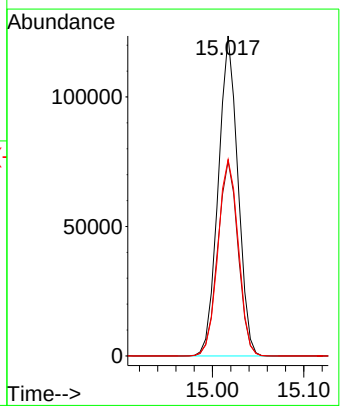


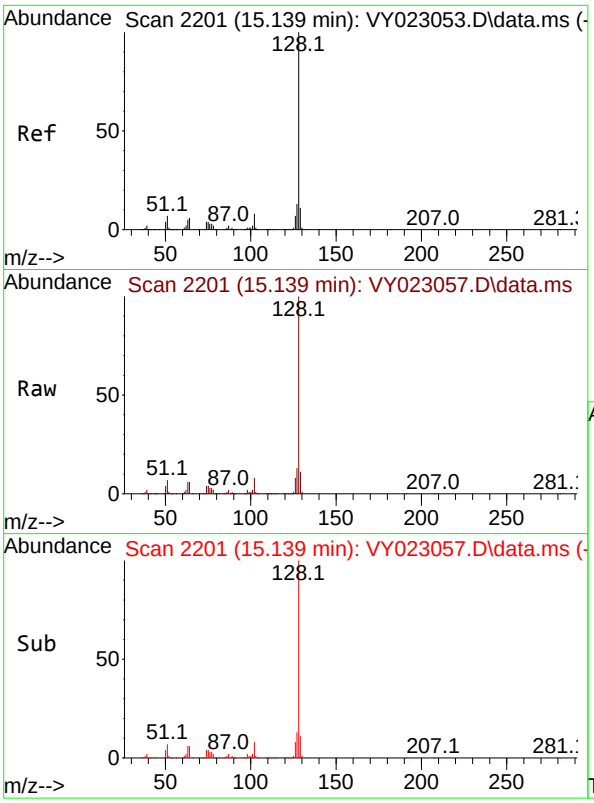


#94
Hexachlorobutadiene
Concen: 48.344 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

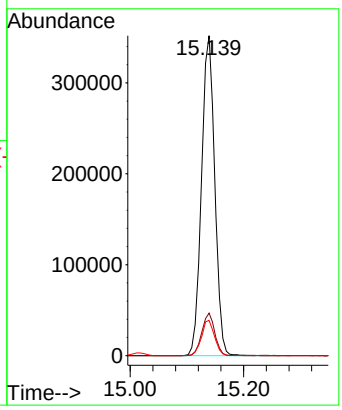




#95
Naphthalene
Concen: 51.623 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:128 Resp: 5714

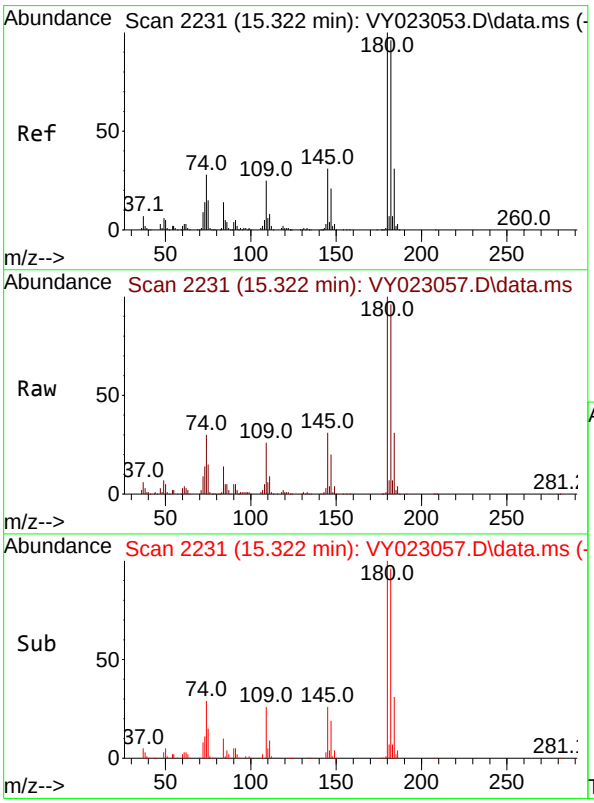
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.9	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Manual Integrations
APPROVED

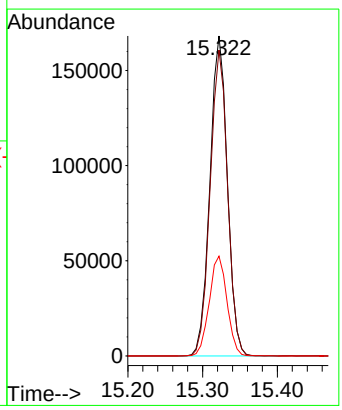
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025



#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



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

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

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

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

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

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

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.:	Q2819
Instrument ID:	MSVOA_W	Calibration Date/Time:	08/11/2025 19:31
Lab File ID:	VW032078.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	0.297		-17.04	50
Chloromethane	0.482	0.408	0.1	-15.35	50
Vinyl Chloride	0.583	0.499		-14.41	50
Bromomethane	0.437	0.376		-13.96	50
Chloroethane	0.386	0.340		-11.92	50
Trichlorofluoromethane	0.467	0.408		-12.63	50
1,1,2-Trichlorotrifluoroethane	0.551	0.478		-13.25	50
1,1-Dichloroethene	0.606	0.534		-11.88	50
Acetone	0.167	0.136		-18.56	50
Carbon Disulfide	1.628	1.406		-13.64	50
Methyl tert-butyl Ether	1.068	1.029		-3.65	50
Methyl Acetate	0.530	0.584		10.19	50
Methylene Chloride	0.774	0.639		-17.44	50
trans-1,2-Dichloroethene	0.644	0.595		-7.61	50
1,1-Dichloroethane	1.189	1.078	0.1	-9.34	50
Cyclohexane	1.031	0.892		-13.48	50
2-Butanone	0.238	0.227		-4.62	50
Carbon Tetrachloride	0.439	0.405		-7.74	50
cis-1,2-Dichloroethene	0.752	0.723		-3.86	50
Bromochloromethane	0.541	0.530		-2.03	50
Chloroform	1.260	1.191		-5.48	50
1,1,1-Trichloroethane	0.915	0.823		-10.06	50
Methylcyclohexane	0.555	0.536		-3.42	50
Benzene	1.415	1.355		-4.24	50
1,2-Dichloroethane	0.453	0.436		-3.75	50
Trichloroethene	0.337	0.314		-6.82	50
1,2-Dichloropropane	0.342	0.335		-2.05	50
Bromodichloromethane	0.509	0.497		-2.36	50
4-Methyl-2-Pentanone	0.279	0.281		0.72	50
Toluene	0.892	0.879		-1.46	50
t-1,3-Dichloropropene	0.476	0.456		-4.2	50
cis-1,3-Dichloropropene	0.541	0.524		-3.14	50
1,1,2-Trichloroethane	0.293	0.288		-1.71	50
2-Hexanone	0.193	0.196		1.55	50
Dibromochloromethane	0.335	0.325		-2.98	50
1,2-Dibromoethane	0.285	0.280		-1.75	50
Tetrachloroethene	0.289	0.259		-10.38	50
Chlorobenzene	1.088	0.977	0.3	-10.2	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
Instrument ID:	MSVOA_W	Calibration Date/Time:	08/11/2025 19:31
Lab File ID:	VW032078.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	1.690		-8.3	50
m/p-Xylenes	0.711	0.638		-10.27	50
o-Xylene	0.657	0.626		-4.72	50
Styrene	1.168	1.112		-4.8	50
Bromoform	0.194	0.187	0.1	-3.61	50
Isopropylbenzene	3.494	3.384		-3.15	50
1,1,2,2-Tetrachloroethane	0.830	0.788	0.3	-5.06	50
1,3-Dichlorobenzene	1.661	1.530		-7.89	50
1,4-Dichlorobenzene	1.678	1.525		-9.12	50
1,2-Dichlorobenzene	1.504	1.482		-1.46	50
1,2-Dibromo-3-Chloropropane	0.147	0.138		-6.12	50
1,2,4-Trichlorobenzene	0.900	0.856		-4.89	50
1,2,3-Trichlorobenzene	0.819	0.841		2.69	50
1,2-Dichloroethane-d4	0.723	0.712		-1.52	50
Dibromofluoromethane	0.323	0.320		-0.93	50
Toluene-d8	1.195	1.199		0.34	50
4-Bromofluorobenzene	0.440	0.437		-0.68	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 04:30:35 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 :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	224871	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	413610	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	399228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	181926	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	160017	49.202	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 98.400%			
35) Dibromofluoromethane	7.898	113	132442	49.565	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 99.140%			
50) Toluene-d8	10.325	98	496013	50.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.380%			
62) 4-Bromofluorobenzene	12.617	95	180889	49.666	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	66817	41.544	ug/l	100
3) Chloromethane	2.253	50	91640	42.300	ug/l	95
4) Vinyl Chloride	2.405	62	112251	42.835	ug/l	94
5) Bromomethane	2.826	94	84610	43.036	ug/l	99
6) Chloroethane	2.972	64	76486	44.108	ug/l	99
7) Trichlorofluoromethane	3.308	101	91694	43.678	ug/l	95
8) Diethyl Ether	3.722	74	78203	45.468	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.100	101	107518	43.412	ug/l	99
10) Methyl Iodide	4.308	142	157749	44.922	ug/l	98
11) Tert butyl alcohol	5.216	59	48254	229.131	ug/l	100
12) 1,1-Dichloroethene	4.082	96	120156	44.059	ug/l	95
13) Acrolein	3.930	56	65364	194.795	ug/l	95
14) Allyl chloride	4.704	41	176474	44.462	ug/l	99
15) Acrylonitrile	5.405	53	195391	238.510	ug/l	99
16) Acetone	4.161	43	152843	202.983	ug/l	99
17) Carbon Disulfide	4.423	76	316067	43.178	ug/l #	94
18) Methyl Acetate	4.710	43	131388	55.142	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	231312	48.139	ug/l	99
20) Methylene Chloride	4.960	84	143735	41.285	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	133902	46.267	ug/l	95
22) Diisopropyl ether	6.344	45	401086	47.935	ug/l	100
23) Vinyl Acetate	6.283	43	1283164	233.574	ug/l	100
24) 1,1-Dichloroethane	6.246	63	242514	45.363	ug/l	99
25) 2-Butanone	7.197	43	255523	238.766	ug/l	100
26) 2,2-Dichloropropane	7.191	77	113466	42.306	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	162586	48.061	ug/l	98
28) Bromochloromethane	7.533	49	119080	48.947	ug/l	100
29) Tetrahydrofuran	7.551	42	173149	245.333	ug/l	99
30) Chloroform	7.691	83	267886	47.266	ug/l	100
31) Cyclohexane	7.971	56	200498	43.259	ug/l	99
32) 1,1,1-Trichloroethane	7.886	97	185041	44.949	ug/l	98
36) 1,1-Dichloropropene	8.093	75	180151	47.825	ug/l	99
37) Ethyl Acetate	7.277	43	110057	49.608	ug/l	99
38) Carbon Tetrachloride	8.087	117	167458	46.065	ug/l	94
39) Methylcyclohexane	9.343	83	221584	48.261	ug/l	98
40) Benzene	8.337	78	560623	47.879	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 04:30:35 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 :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	62009	49.286	ug/l		94
42) 1,2-Dichloroethane	8.410	62	180455	48.163	ug/l		99
43) Isopropyl Acetate	8.435	43	200606	49.147	ug/l		99
44) Trichloroethene	9.099	130	129965	46.608	ug/l		98
45) 1,2-Dichloropropane	9.380	63	138731	49.043	ug/l		99
46) Dibromomethane	9.465	93	89360	48.945	ug/l		99
47) Bromodichloromethane	9.654	83	205517	48.852	ug/l		98
48) Methyl methacrylate	9.441	41	101426	51.471	ug/l		98
49) 1,4-Dioxane	9.459	88	23641	1001.497	ug/l		99
51) 4-Methyl-2-Pentanone	10.215	43	581370	252.344	ug/l		100
52) Toluene	10.392	92	363384	49.271	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	188585	47.848	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	216528	48.425	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	118978	49.042	ug/l		98
56) Ethyl methacrylate	10.648	69	166567	51.306	ug/l		100
57) 1,3-Dichloropropane	10.934	76	204220	48.292	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	476248	265.209	ug/l		99
59) 2-Hexanone	10.971	43	404553	253.545	ug/l		100
60) Dibromochloromethane	11.129	129	134574	48.560	ug/l		97
61) 1,2-Dibromoethane	11.239	107	115961	49.186	ug/l		100
64) Tetrachloroethene	10.861	164	103230	44.767	ug/l		92
65) Chlorobenzene	11.660	112	390137	44.896	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.727	131	125374	46.243	ug/l		98
67) Ethyl Benzene	11.733	91	674717	45.839	ug/l		97
68) m/p-Xylenes	11.837	106	509322	89.674	ug/l		96
69) o-Xylene	12.166	106	249805	47.586	ug/l		99
70) Styrene	12.178	104	444091	47.626	ug/l		99
71) Bromoform	12.349	173	74729	48.185	ug/l	#	99
73) Isopropylbenzene	12.465	105	615630	48.421	ug/l		100
74) N-amyl acetate	12.270	43	174844	47.933	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.715	83	143342	47.484	ug/l		98
76) 1,2,3-Trichloropropane	12.763	75	132741m	53.760	ug/l		
77) Bromobenzene	12.745	156	145348	47.865	ug/l		97
78) n-propylbenzene	12.806	91	756214	48.311	ug/l		100
79) 2-Chlorotoluene	12.891	91	469293	48.578	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	534122	49.484	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	43908	46.037	ug/l		97
82) 4-Chlorotoluene	12.989	91	487171	47.464	ug/l		98
83) tert-Butylbenzene	13.202	119	433786	48.424	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	543640	49.477	ug/l		99
85) sec-Butylbenzene	13.379	105	643083	47.482	ug/l		99
86) p-Isopropyltoluene	13.495	119	549955	48.708	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	278295	46.057	ug/l		93
88) 1,4-Dichlorobenzene	13.574	146	277410	45.431	ug/l		98
89) n-Butylbenzene	13.818	91	531065	48.414	ug/l		100
90) Hexachloroethane	14.086	117	94529	45.779	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	269607	49.256	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.476	75	25079	46.732	ug/l		99
93) 1,2,4-Trichlorobenzene	15.129	180	155733	47.562	ug/l		99
94) Hexachlorobutadiene	15.226	225	65688	44.879	ug/l		96
95) Naphthalene	15.360	128	397425	49.535	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	152914	51.327	ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 04:30:35 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 :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

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\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 04:30:35 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 :
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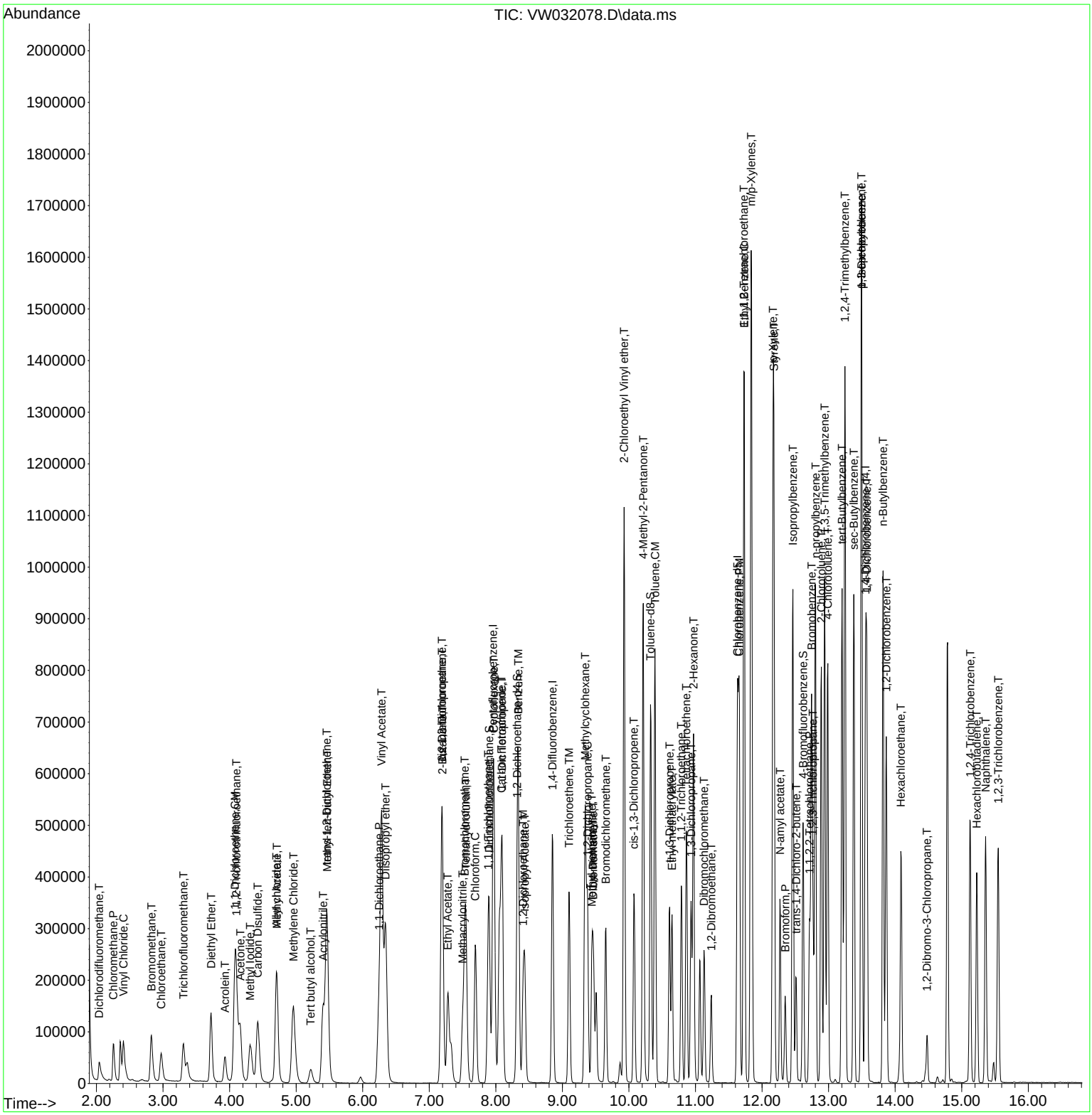
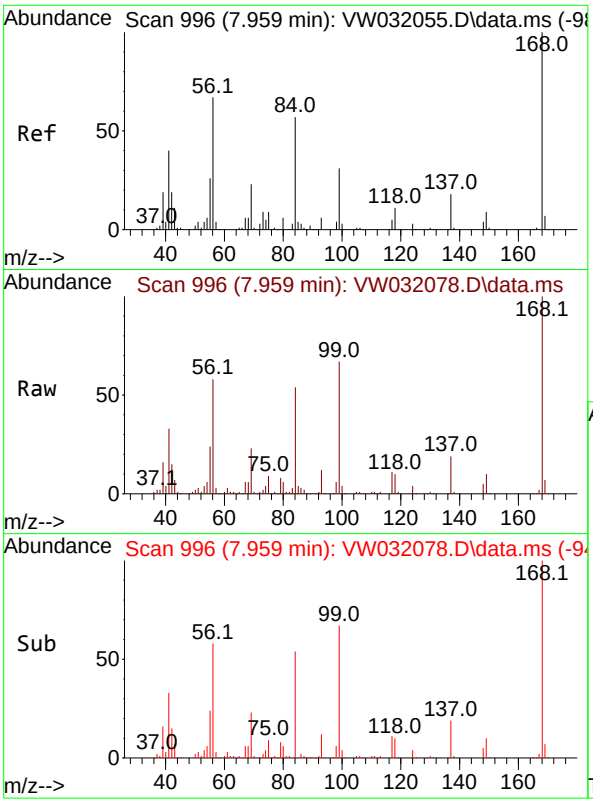
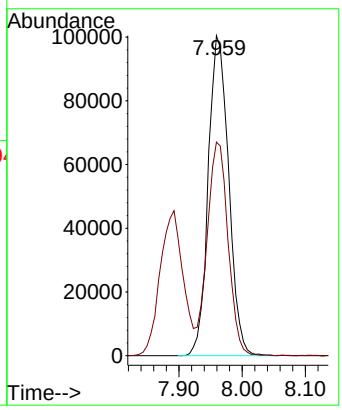




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:168 Resp: 22487

Ion	Ratio	Lower	Upper
168	100		
99	66.7	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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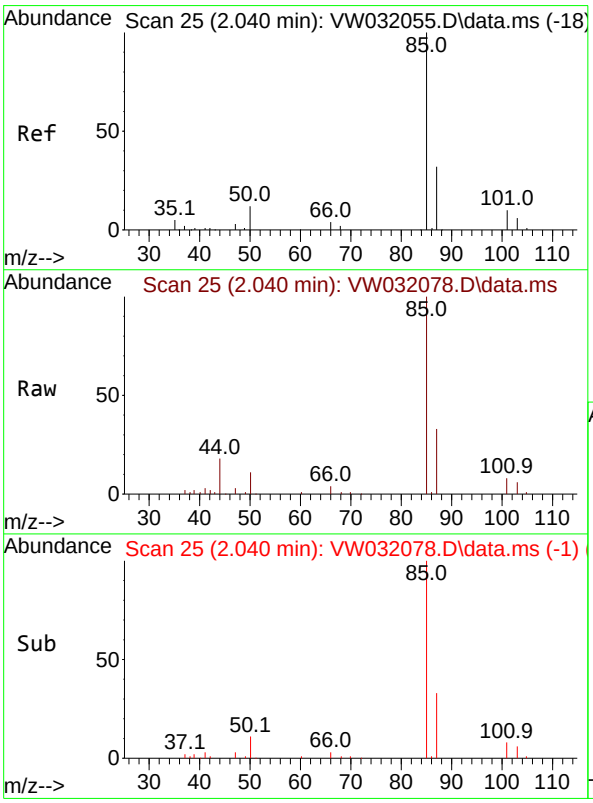
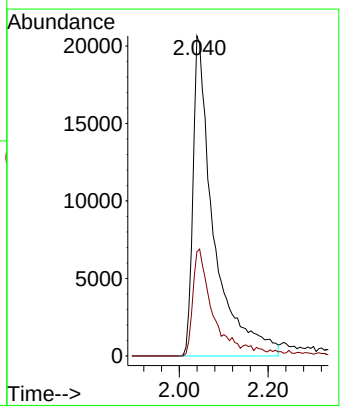
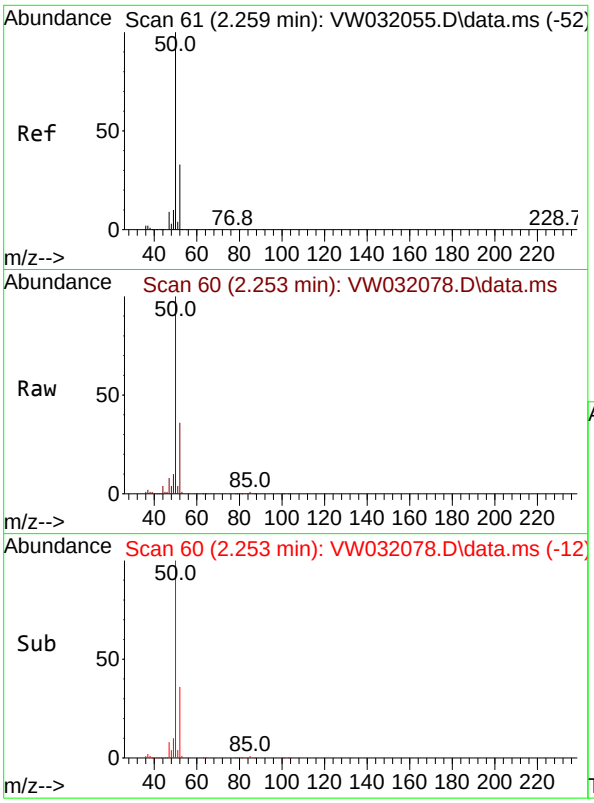


#2
Dichlorodifluoromethane
Concen: 41.544 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 85 Resp: 66817

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6

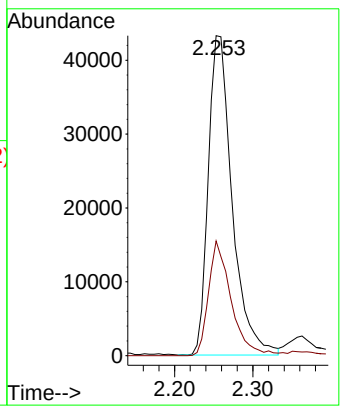




#3
Chloromethane
Concen: 42.300 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 50 Resp: 9164

Ion	Ratio	Lower	Upper
50	100		
52	35.9	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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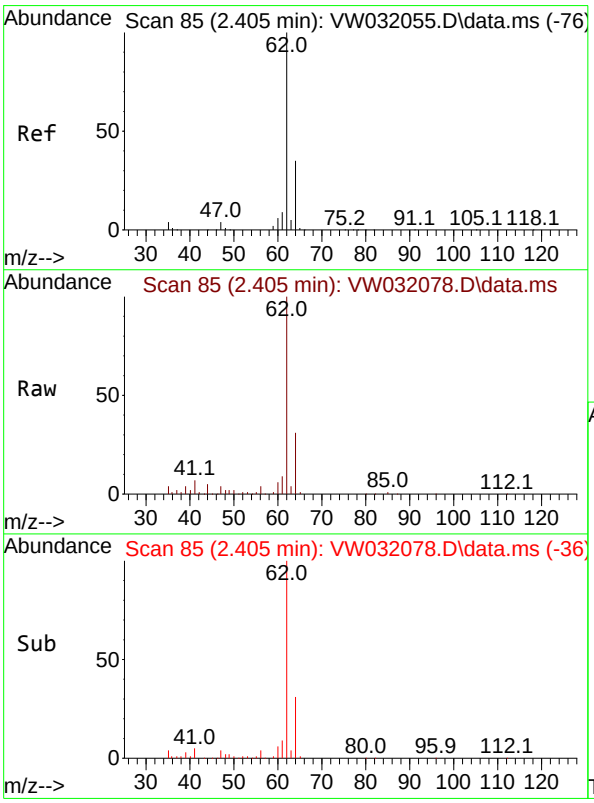
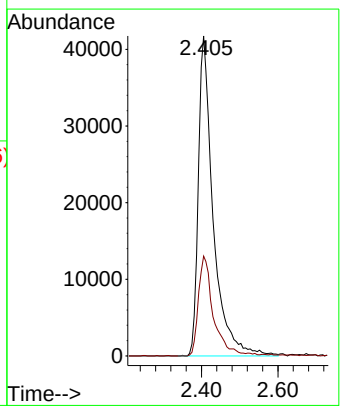
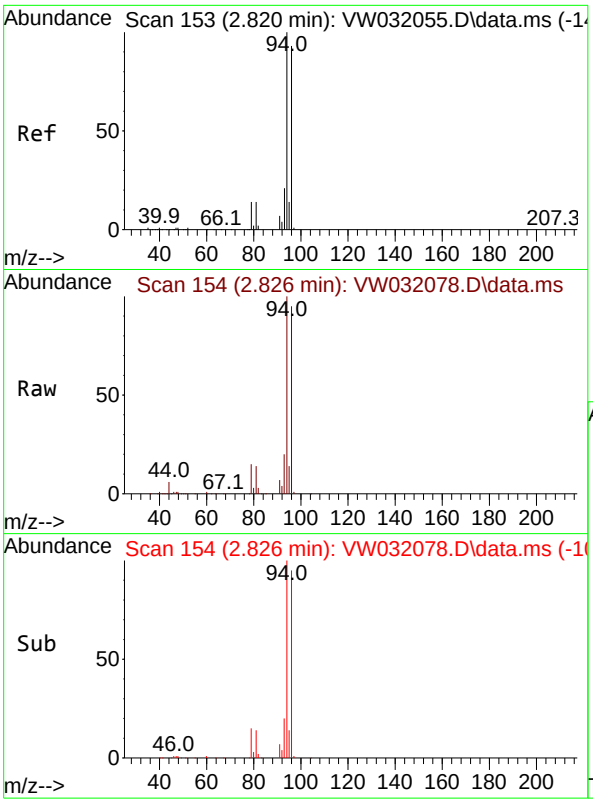


#4
Vinyl Chloride
Concen: 42.835 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 112251

Ion	Ratio	Lower	Upper
62	100		
64	31.2	27.8	41.6

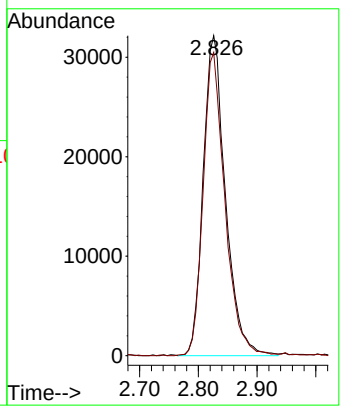




#5
Bromomethane
Concen: 43.036 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 94 Resp: 8461

Ion	Ratio	Lower	Upper
94	100		
96	94.5	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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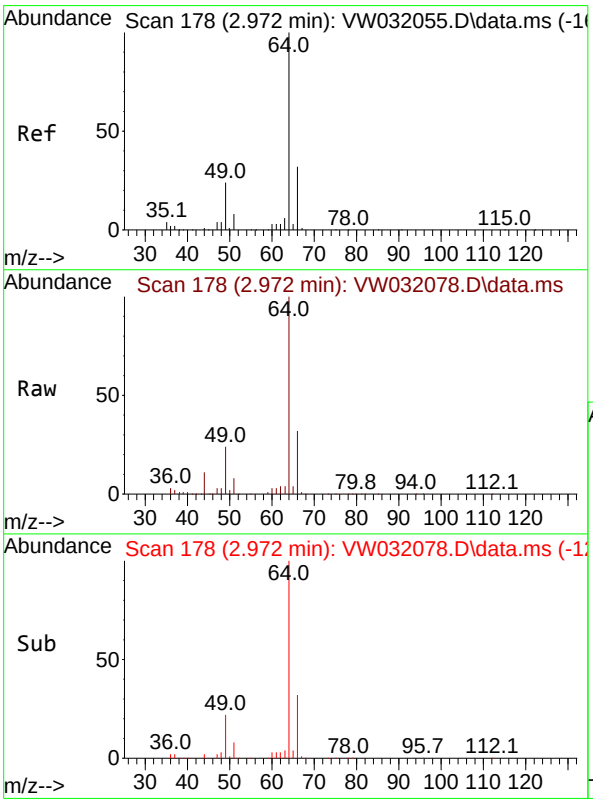
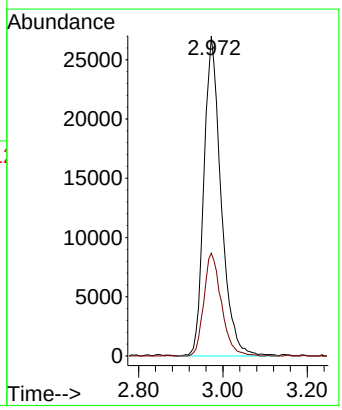
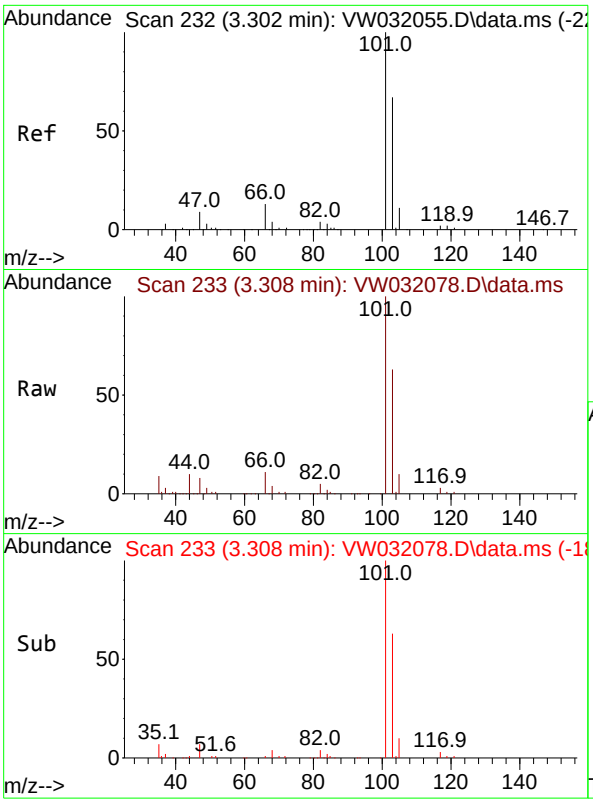


#6
Chloroethane
Concen: 44.108 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 64 Resp: 76486

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.0	39.0

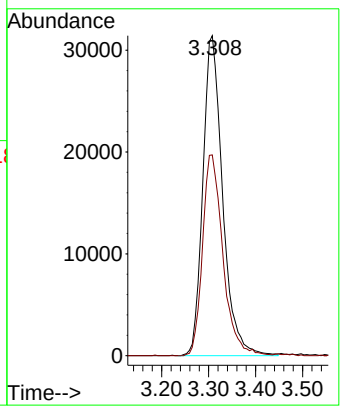




#7
Trichlorofluoromethane
Concen: 43.678 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:101 Resp: 9169

Ion	Ratio	Lower	Upper
101	100		
103	62.8	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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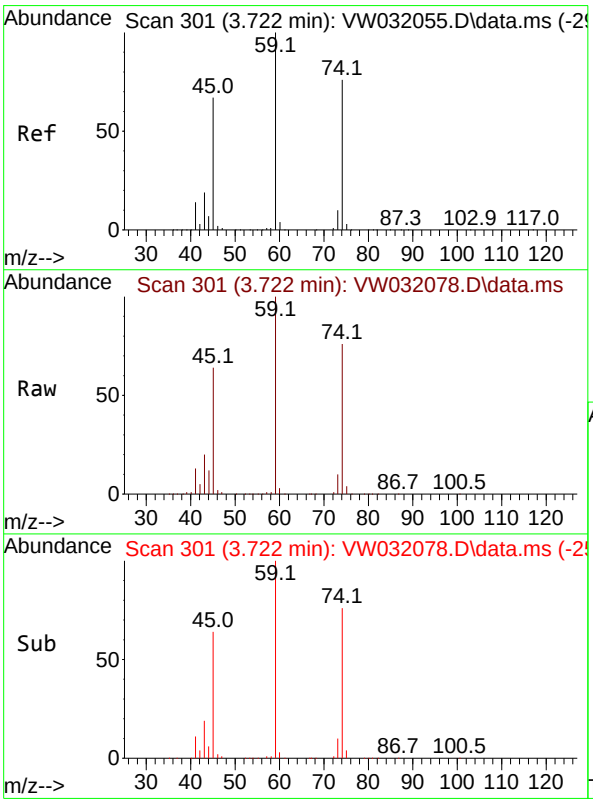
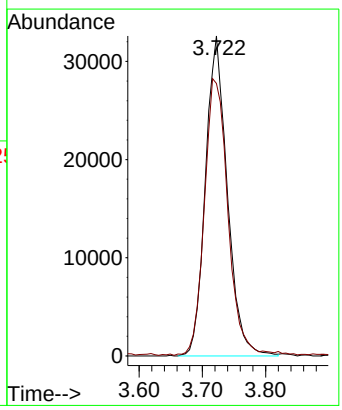
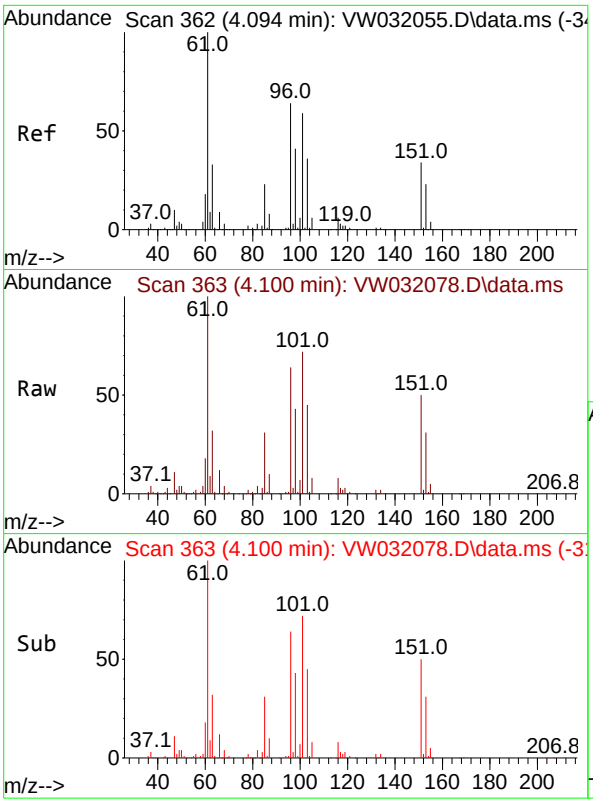


#8
Diethyl Ether
Concen: 45.468 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 74 Resp: 78203

Ion	Ratio	Lower	Upper
74	100		
45	93.6	45.4	136.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.412 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:101 Resp: 10751

Ion	Ratio	Lower	Upper
101	100		
85	45.0	34.9	52.3
151	69.8	56.2	84.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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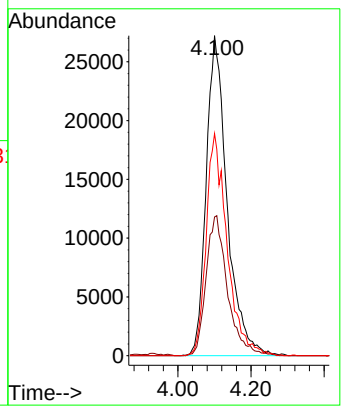
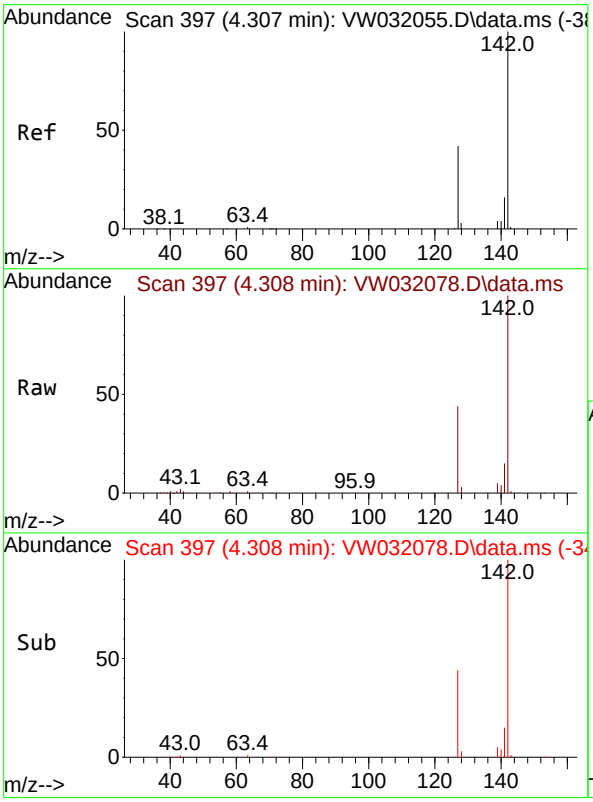
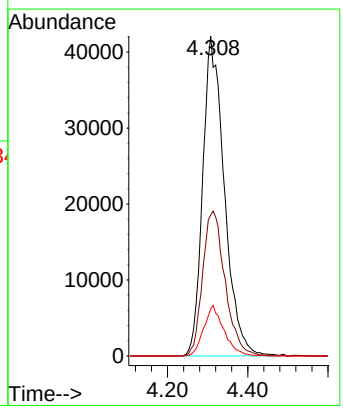


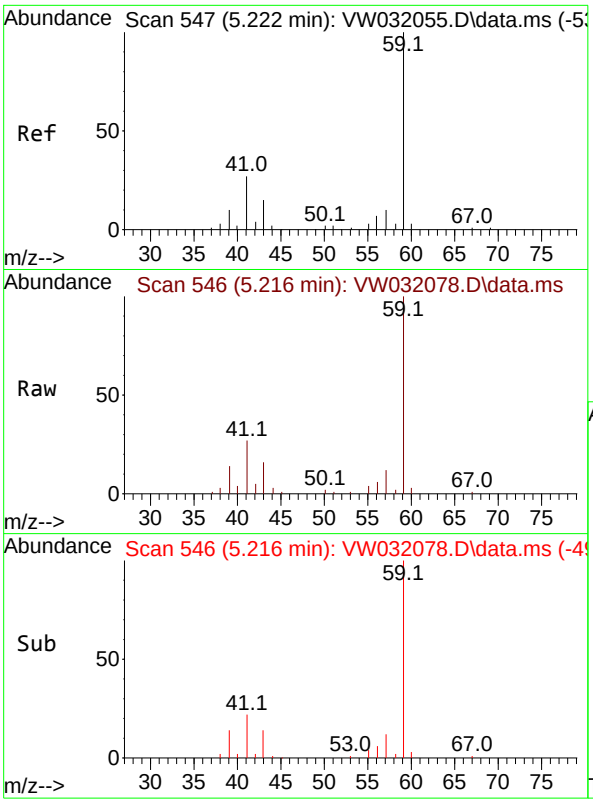


#10
Methyl Iodide
Concen: 44.922 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:142 Resp: 157749

Ion	Ratio	Lower	Upper
142	100		
127	47.1	36.6	55.0
141	14.7	12.1	18.1

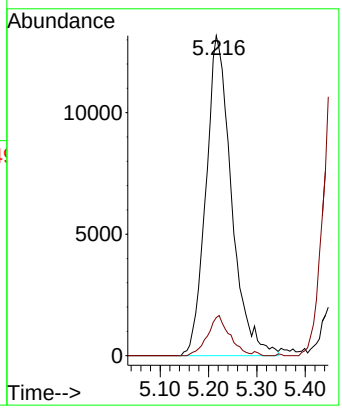




#11
Tert butyl alcohol
Concen: 229.131 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 59 Resp: 4825

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.7	13.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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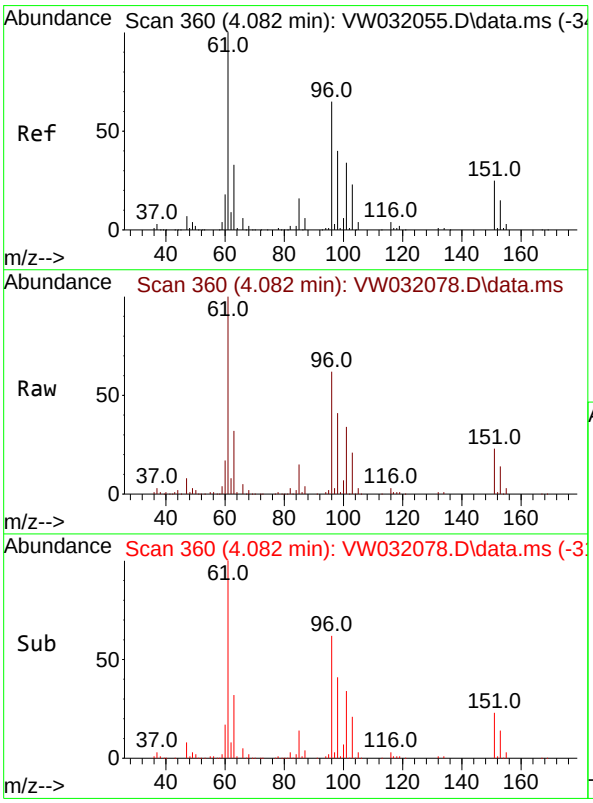
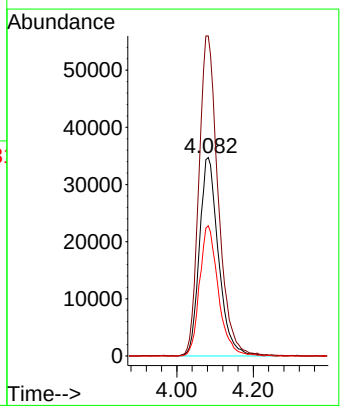
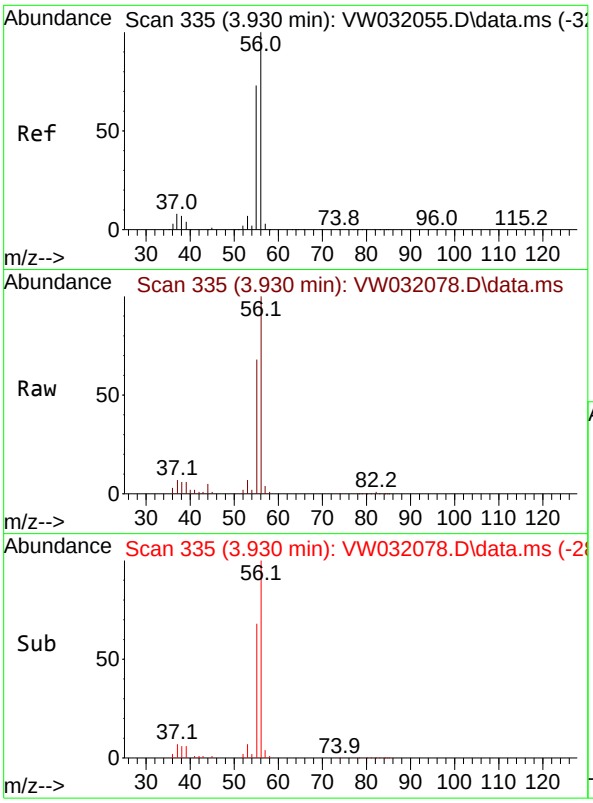


#12
1,1-Dichloroethene
Concen: 44.059 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 120156

Ion	Ratio	Lower	Upper
96	100		
61	161.3	123.4	185.2
98	65.6	49.5	74.3

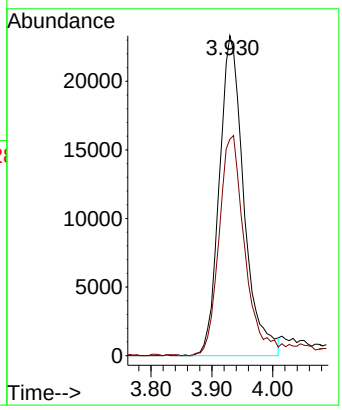




#13
Acrolein
Concen: 194.795 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 56 Resp: 6536

Ion	Ratio	Lower	Upper
56	100		
55	73.8	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
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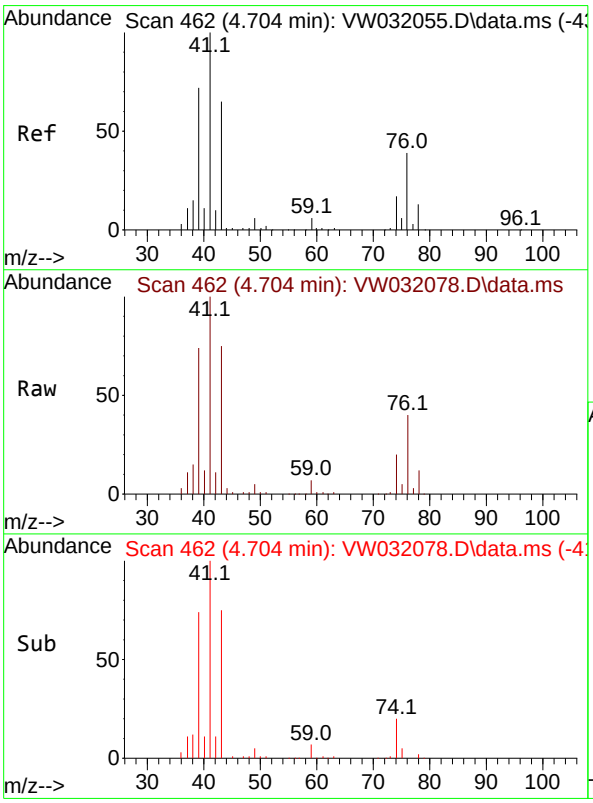
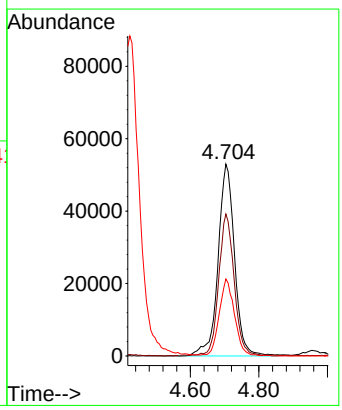
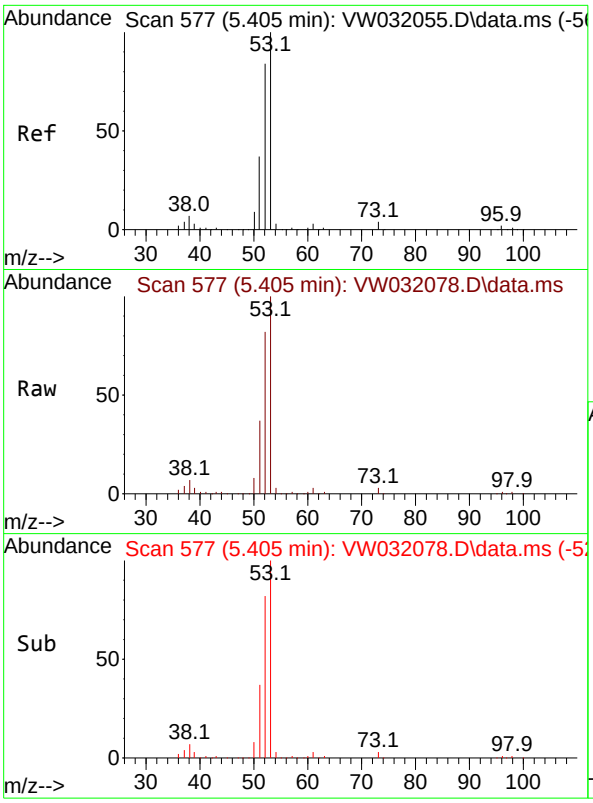


#14
Allyl chloride
Concen: 44.462 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 176474

Ion	Ratio	Lower	Upper
41	100		
39	69.6	54.5	81.7
76	36.6	29.3	43.9

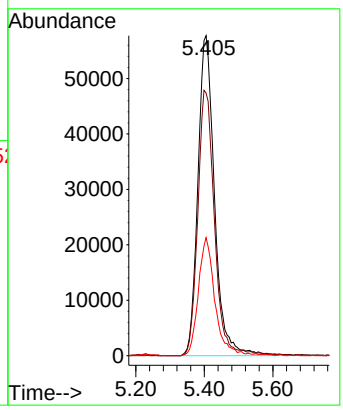




#15
Acrylonitrile
Concen: 238.510 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 53 Resp: 19539

Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.1	99.1
51	36.8	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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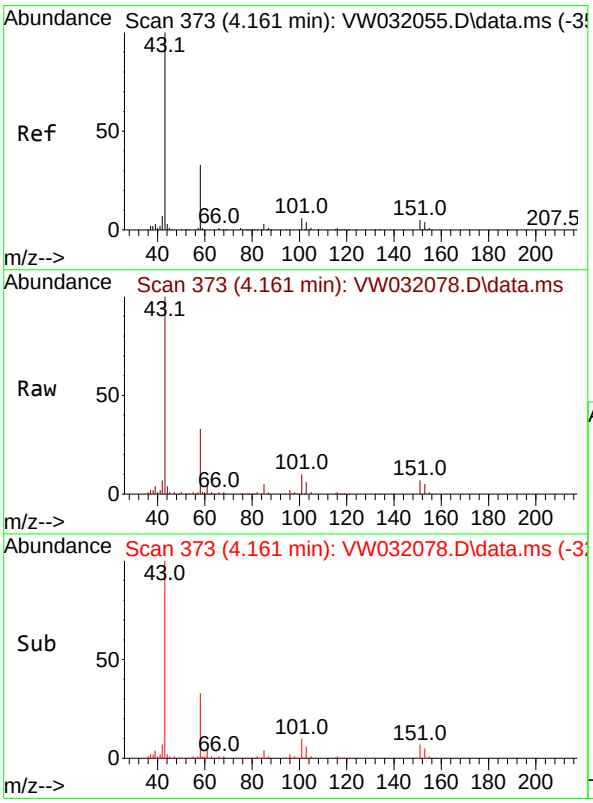
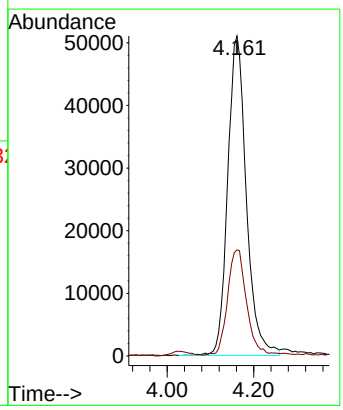
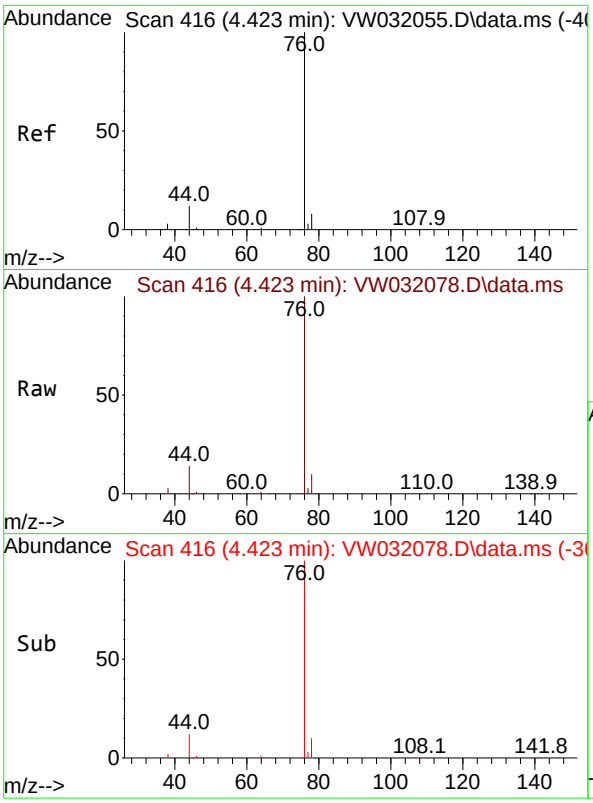


#16
Acetone
Concen: 202.983 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 152843

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.6	39.8





#17
Carbon Disulfide
Concen: 43.178 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 76 Resp: 31606

Ion	Ratio	Lower	Upper
76	100		
78	10.3	6.4	9.6

Instrument :
MSVOA_W
ClientSampleId :
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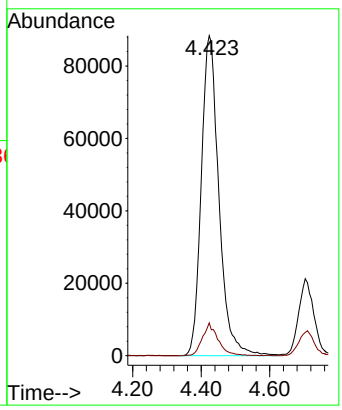
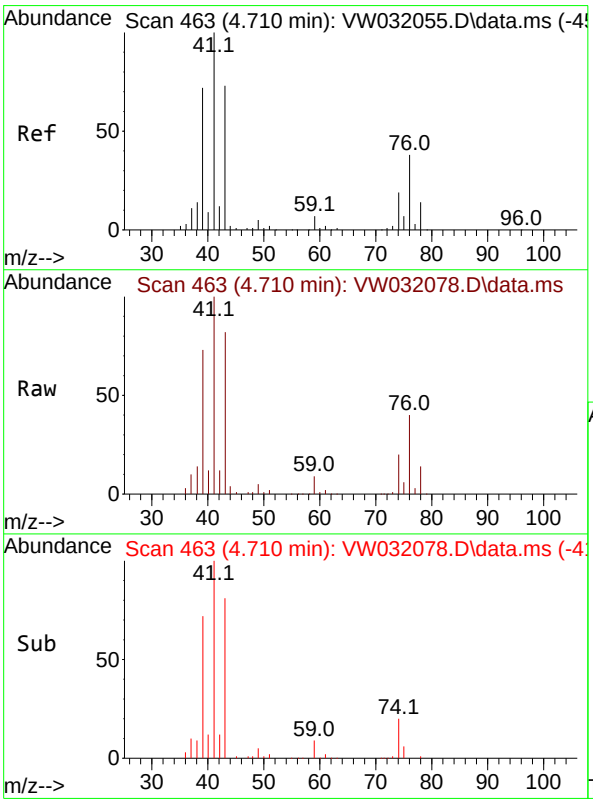
Supervised By :Semsettin Yesilyurt 08/12/2025

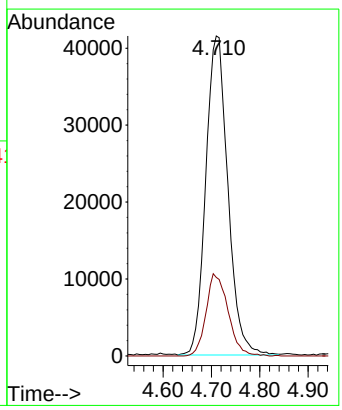


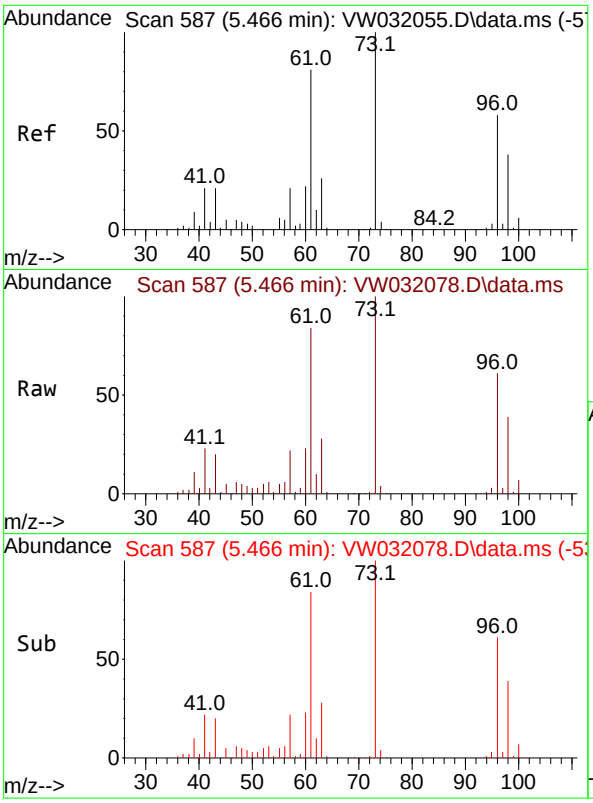


#18
Methyl Acetate
Concen: 55.142 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 131388

Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.6	31.0

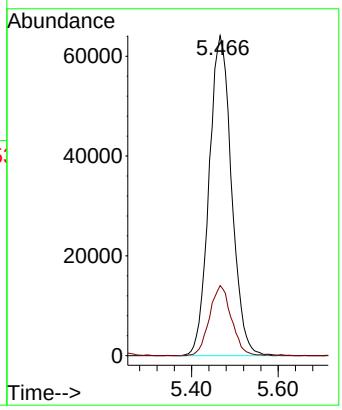




#19
Methyl tert-butyl Ether
Concen: 48.139 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 73 Resp: 23131

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
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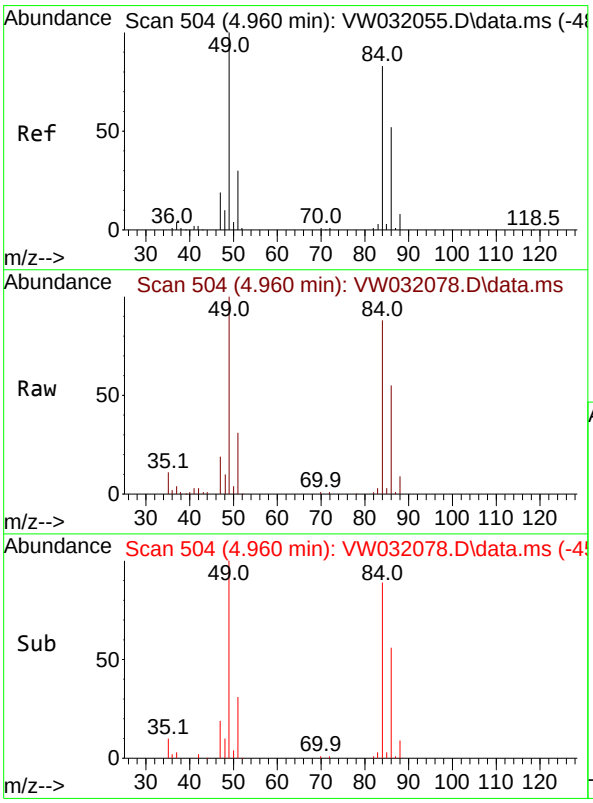
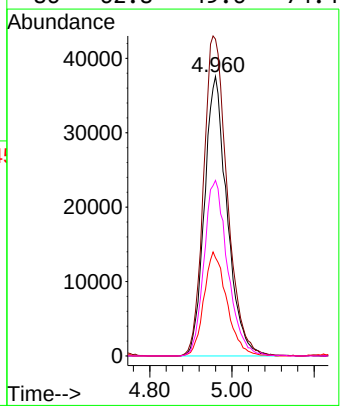
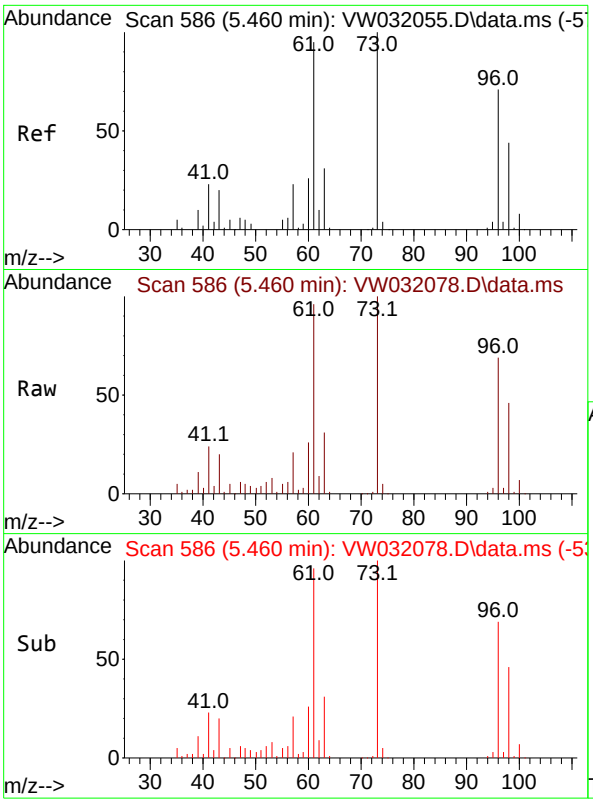


#20
Methylene Chloride
Concen: 41.285 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 84 Resp: 143735

Ion	Ratio	Lower	Upper
84	100		
49	113.4	95.9	143.9
51	35.1	28.6	43.0
86	62.8	49.6	74.4

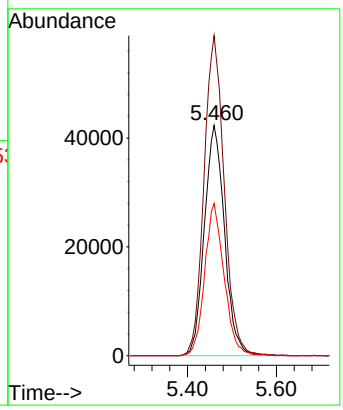




#21
trans-1,2-Dichloroethene
Concen: 46.267 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 13390

Ion	Ratio	Lower	Upper
96	100		
61	139.0	106.8	160.2
98	66.1	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
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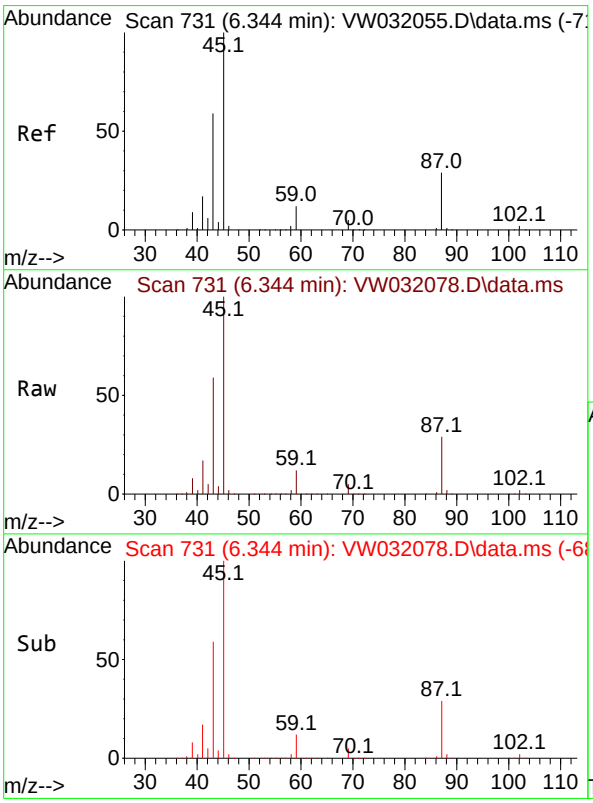
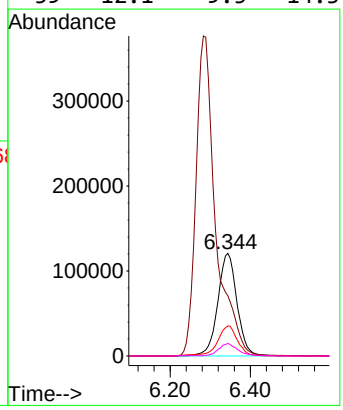
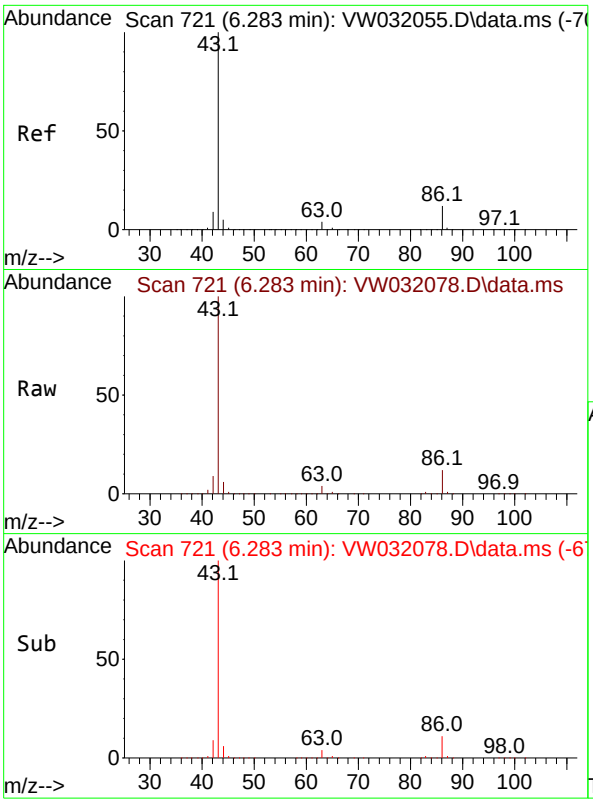


#22
Diisopropyl ether
Concen: 47.935 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 45 Resp: 401086

Ion	Ratio	Lower	Upper
45	100		
43	58.5	47.0	70.4
87	29.3	23.8	35.8
59	12.1	9.5	14.3





#23
Vinyl Acetate
Concen: 233.574 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 128316

Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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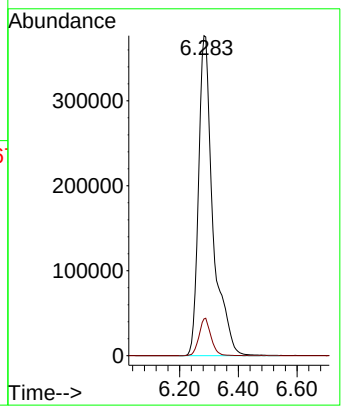
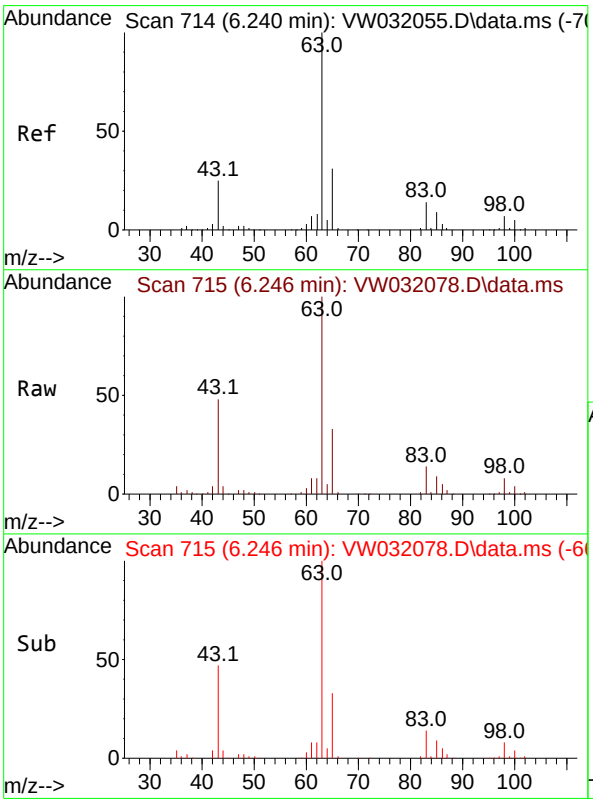
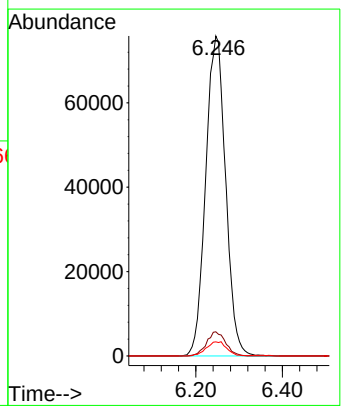


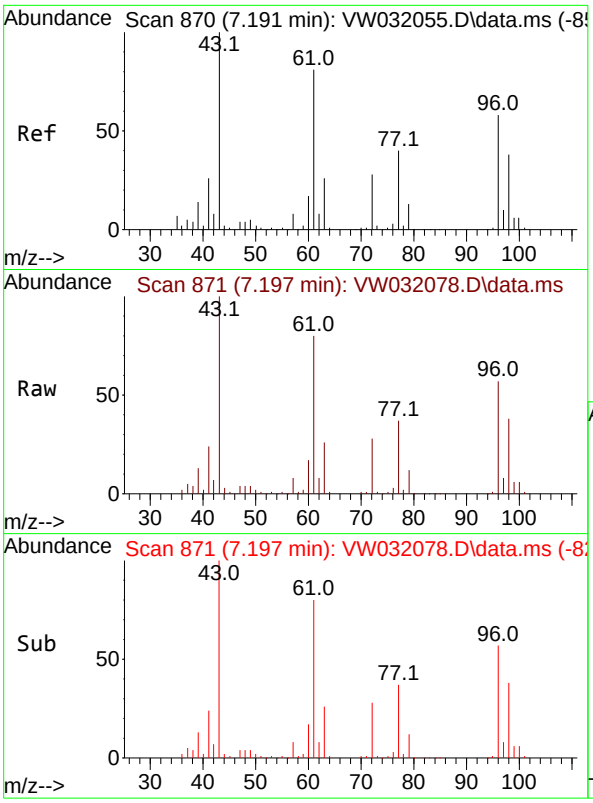


#24
1,1-Dichloroethane
Concen: 45.363 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 242514

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.7	11.1
100	4.4	2.5	7.4





#25
2-Butanone
Concen: 238.766 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 25552

Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.3	33.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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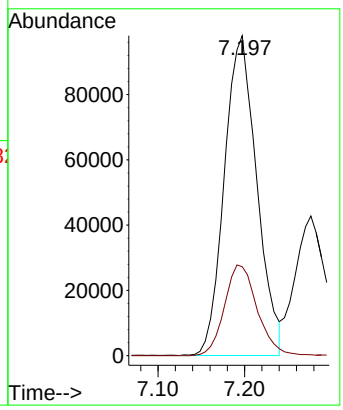
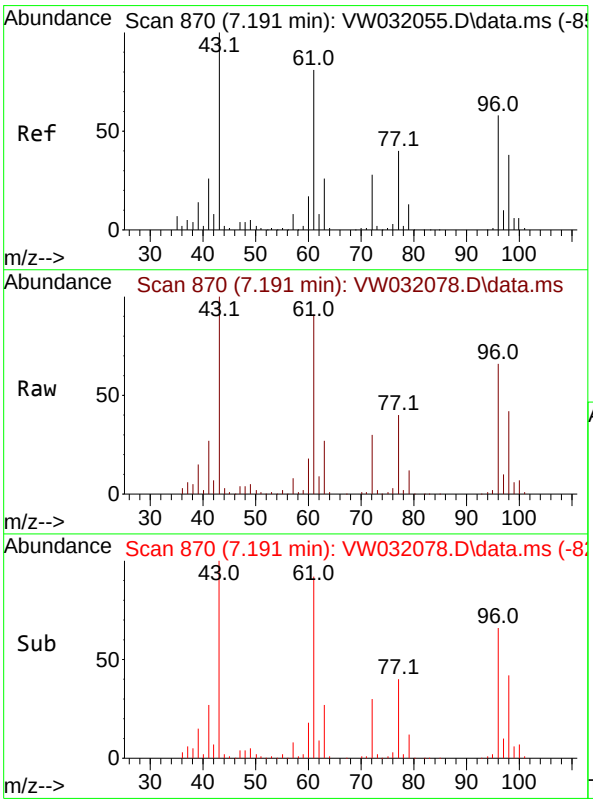
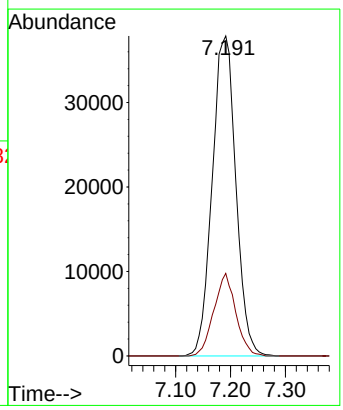


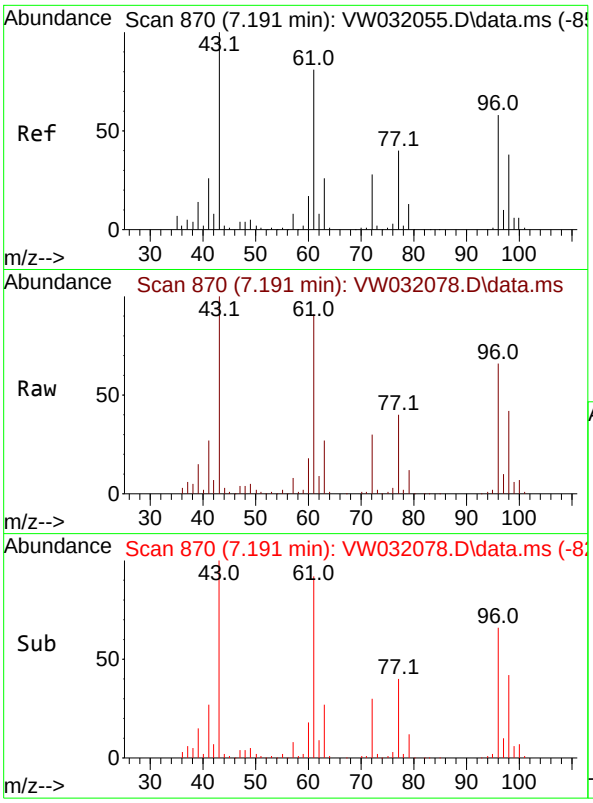


#26
2,2-Dichloropropane
Concen: 42.306 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 77 Resp: 113466

Ion	Ratio	Lower	Upper
77	100		
97	24.0	12.3	36.9

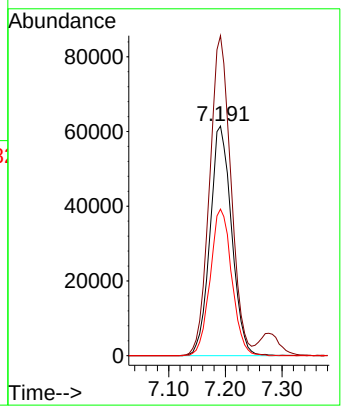




#27
cis-1,2-Dichloroethene
Concen: 48.061 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 16258

Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	281.2
98	63.8	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
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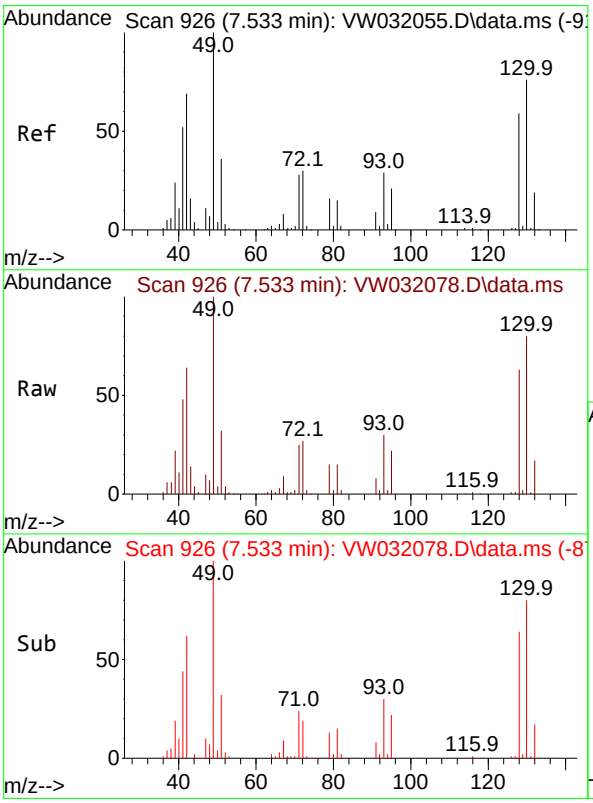
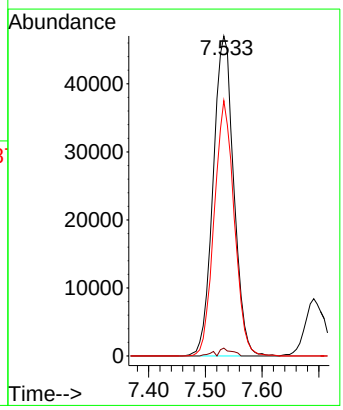
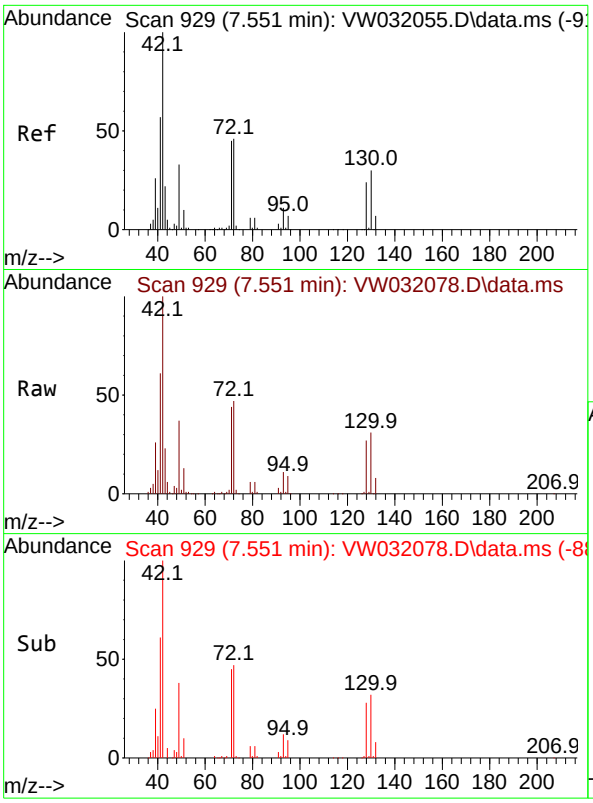


#28
Bromochloromethane
Concen: 48.947 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 49 Resp: 119080

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	77.4	61.9	92.9

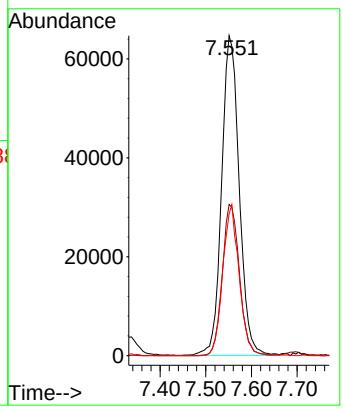




#29
Tetrahydrofuran
Concen: 245.333 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 42 Resp: 17314

Ion	Ratio	Lower	Upper
42	100		
72	46.2	36.6	55.0
71	43.9	34.7	52.1



Instrument :
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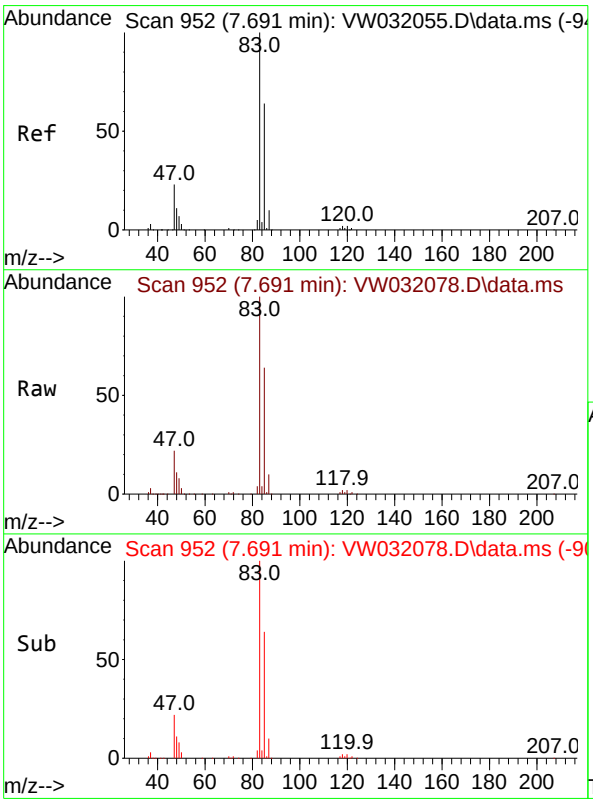
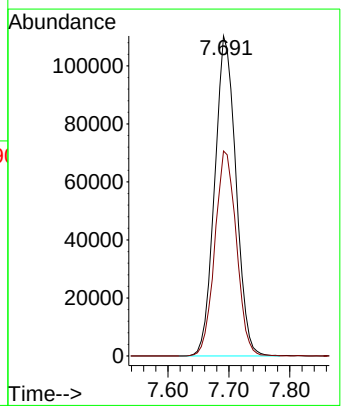
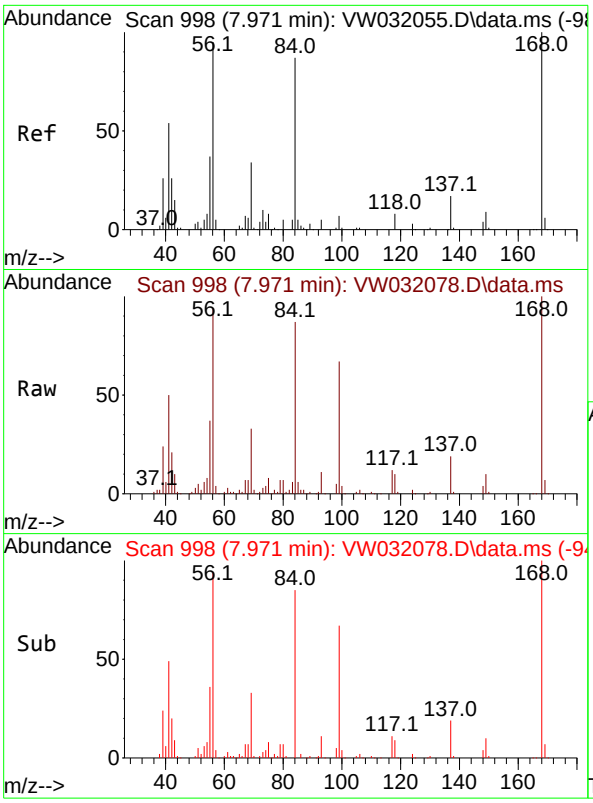


#30
Chloroform
Concen: 47.266 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 267886

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.4

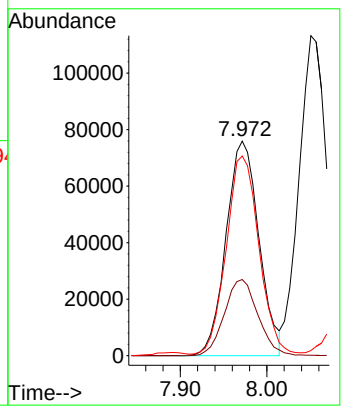




#31
Cyclohexane
Concen: 43.259 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 56 Resp: 20049

Ion	Ratio	Lower	Upper
56	100		
69	35.5	28.6	42.8
84	91.7	73.0	109.4



Instrument :
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ClientSampleId :
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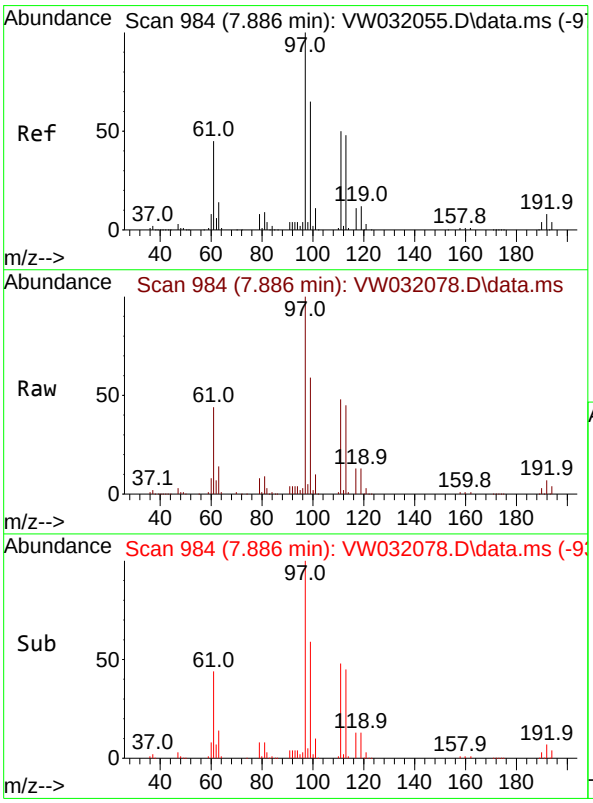
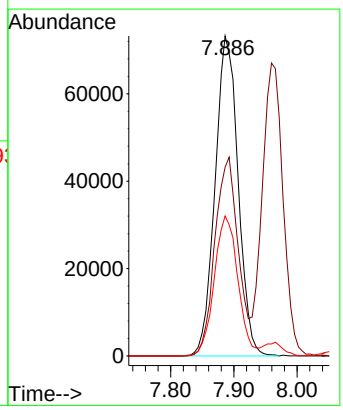
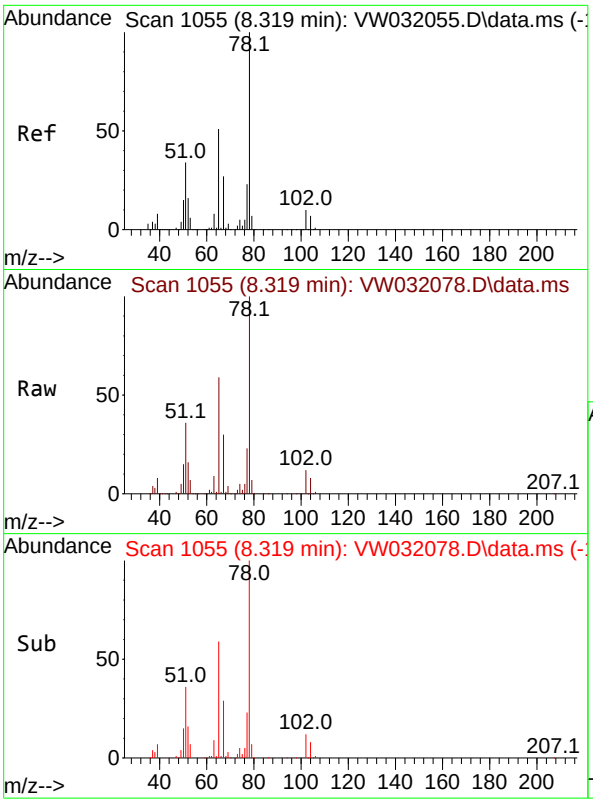


#32
1,1,1-Trichloroethane
Concen: 44.949 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 97 Resp: 185041

Ion	Ratio	Lower	Upper
97	100		
99	62.2	51.8	77.8
61	44.8	35.9	53.9

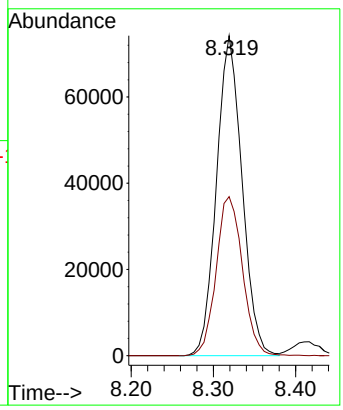




#33
1,2-Dichloroethane-d4
Concen: 49.202 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 65 Resp: 16001

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	102.4



Instrument :
MSVOA_W
ClientSampleId :
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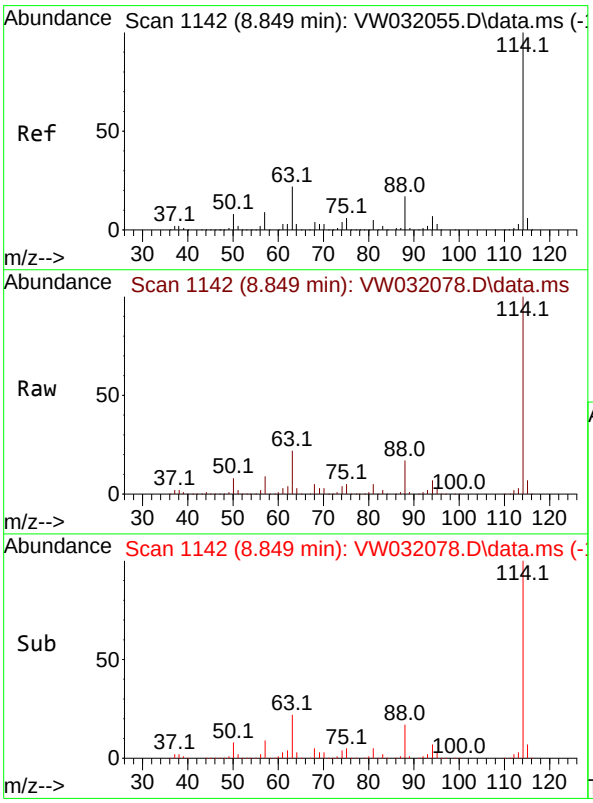
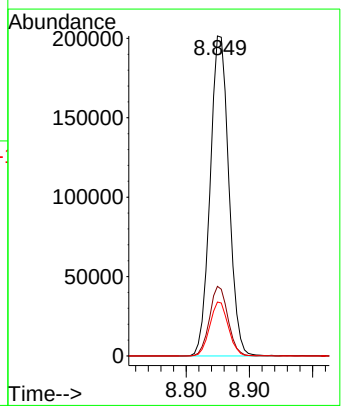
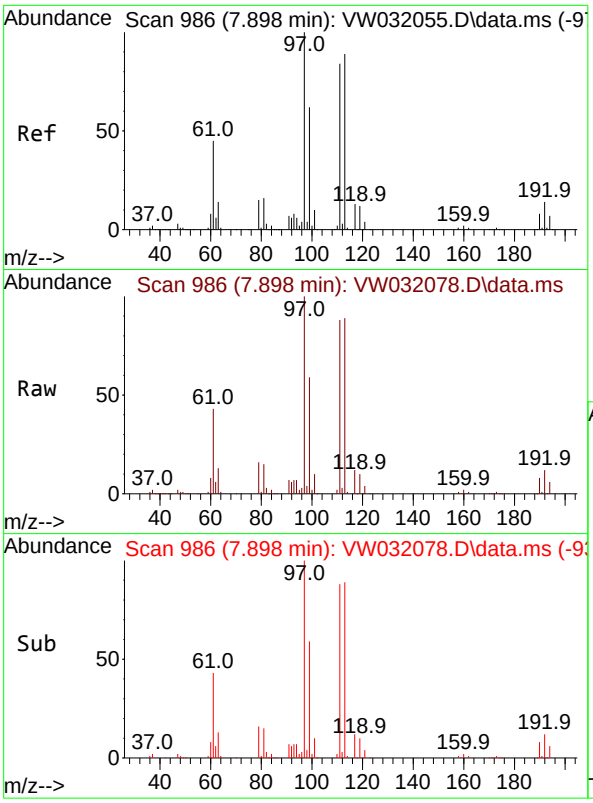


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:114 Resp: 413610

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.0
88	16.8	0.0	33.8

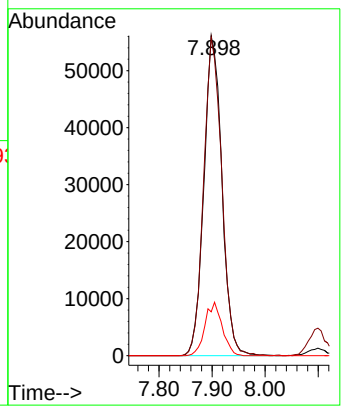




#35
Dibromofluoromethane
Concen: 49.565 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:113 Resp: 13244

Ion	Ratio	Lower	Upper
113	100		
111	100.2	80.1	120.1
192	16.0	13.1	19.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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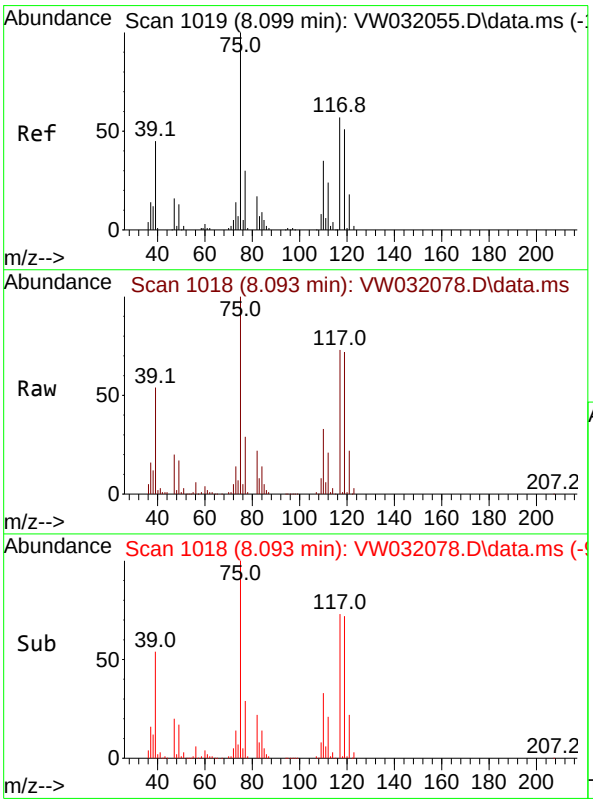
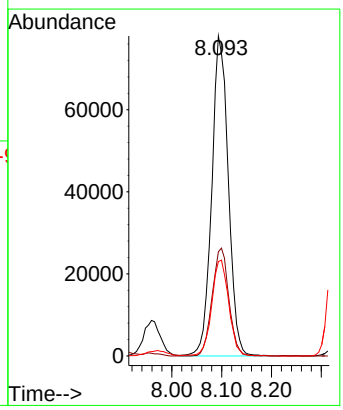
Supervised By :Semsettin Yesilyurt 08/12/2025

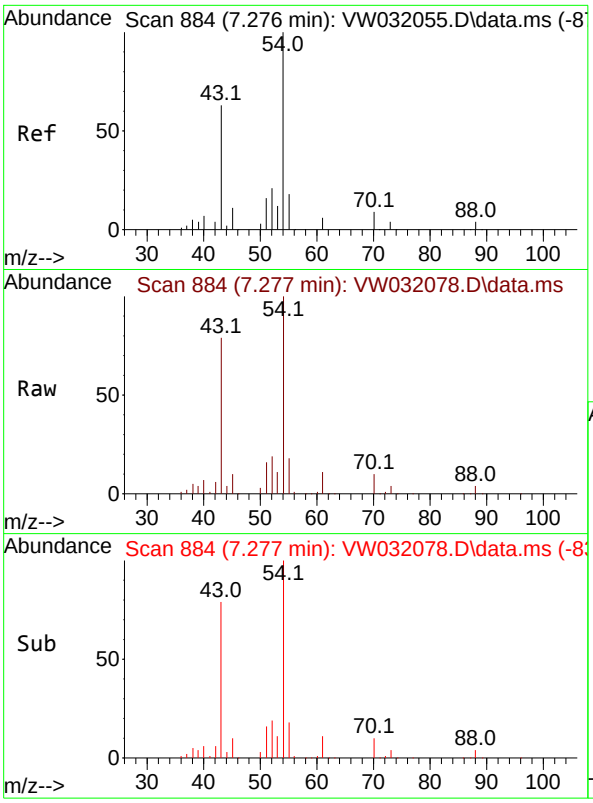


#36
1,1-Dichloropropene
Concen: 47.825 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 180151

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.4	52.2
77	30.9	24.7	37.1





#37
Ethyl Acetate
Concen: 49.608 ug/l
RT: 7.277 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 11005

Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.8	17.6
70	11.2	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
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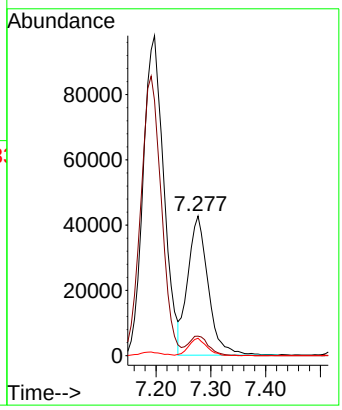
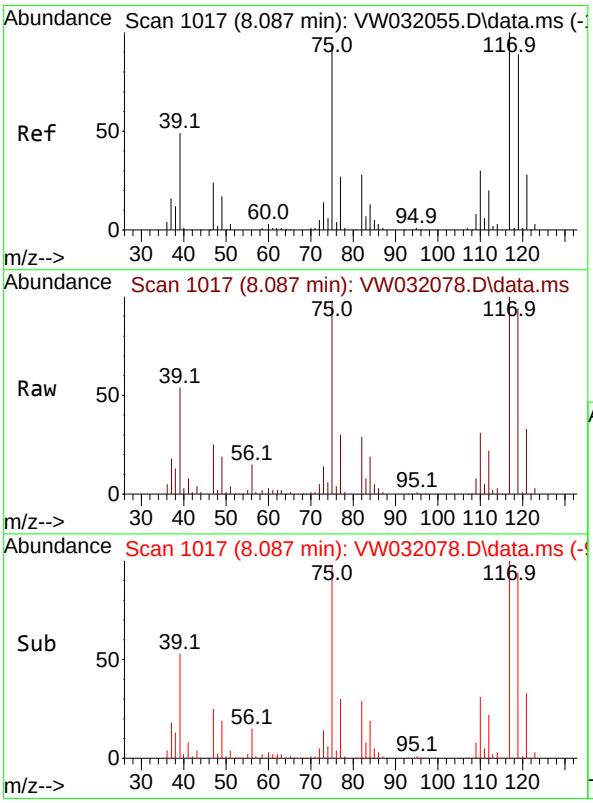
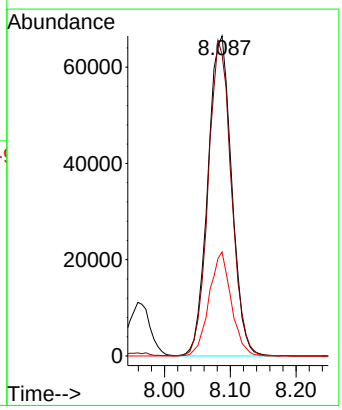


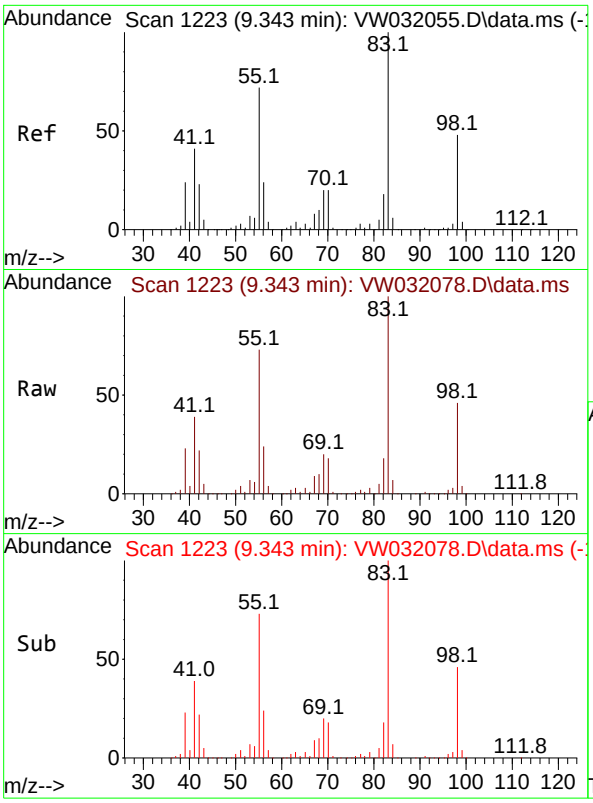


#38
Carbon Tetrachloride
Concen: 46.065 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 167458

Ion	Ratio	Lower	Upper
117	100		
119	94.2	71.4	107.2
121	32.5	22.3	33.5

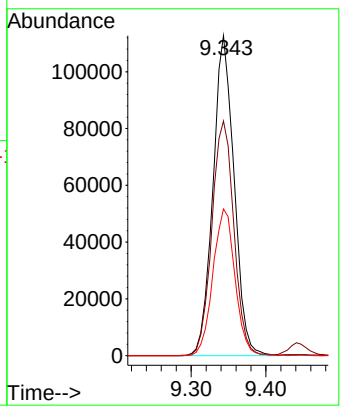




#39
Methylcyclohexane
Concen: 48.261 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 22158

Ion	Ratio	Lower	Upper
83	100		
55	73.3	57.9	86.9
98	45.9	38.3	57.5



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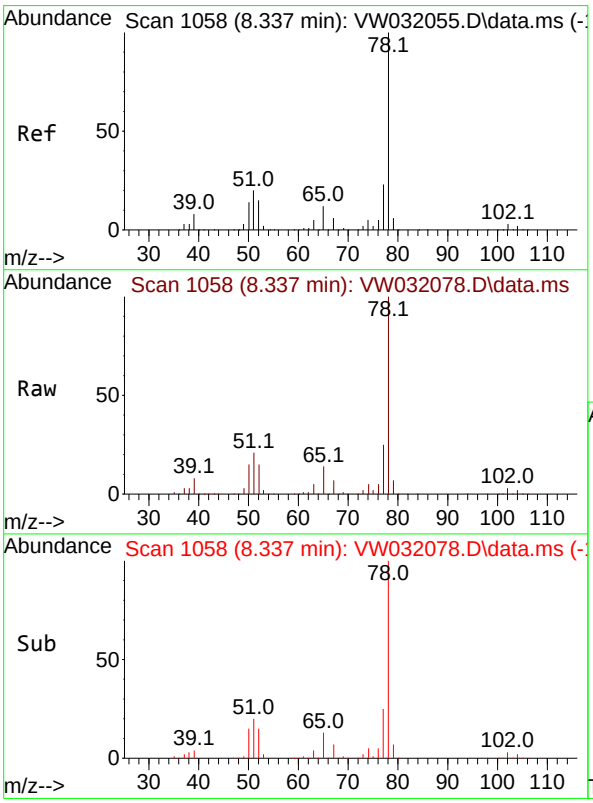
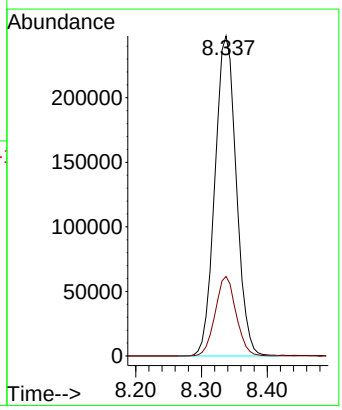
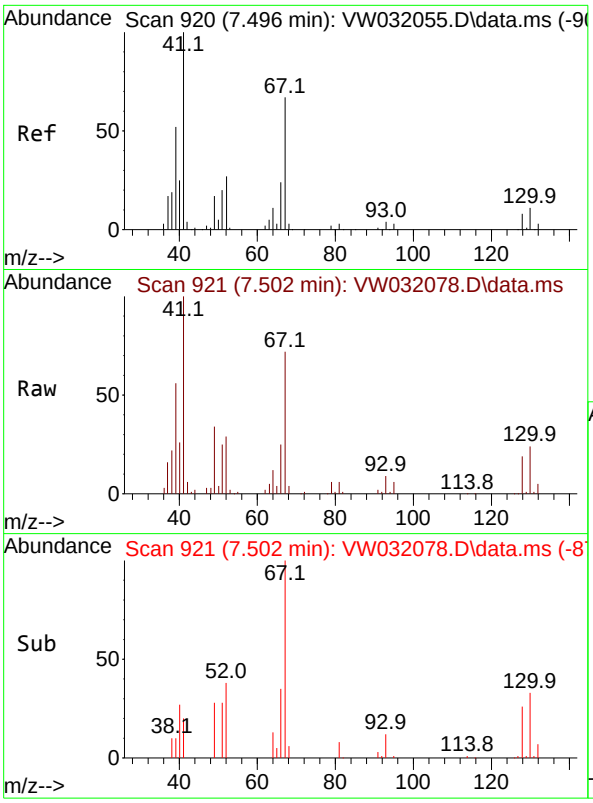


#40
Benzene
Concen: 47.879 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 78 Resp: 560623

Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.4	27.6

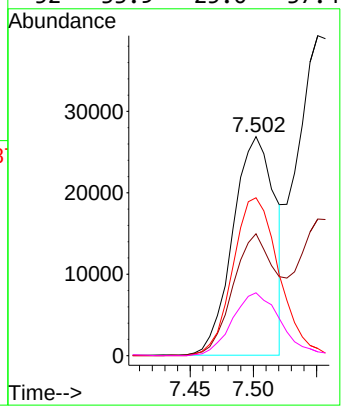




#41
Methacrylonitrile
Concen: 49.286 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 6200

Ion	Ratio	Lower	Upper
41	100		
39	60.4	42.6	63.8
67	79.8	61.0	91.4
52	33.9	25.0	37.4



Instrument :
MSVOA_W
ClientSampleId :
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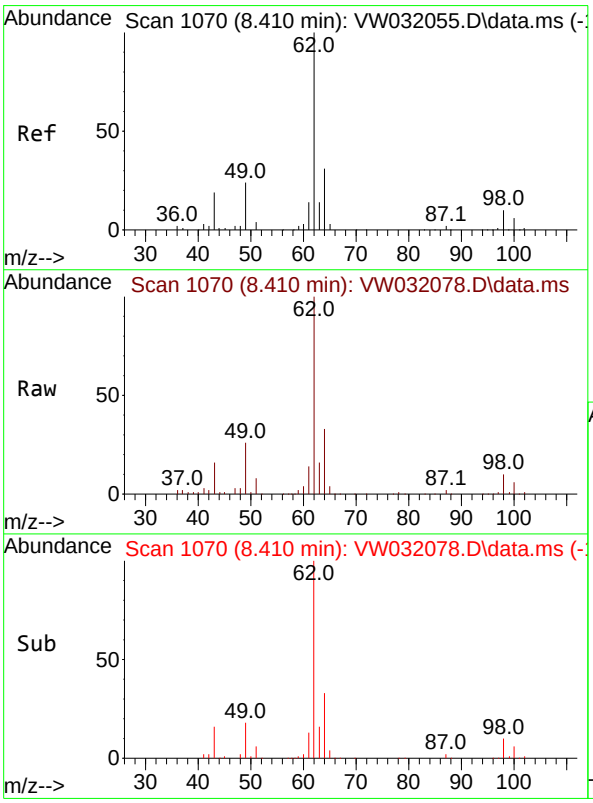
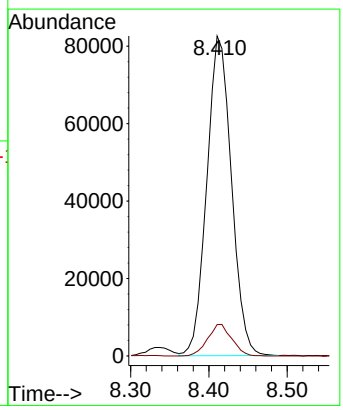
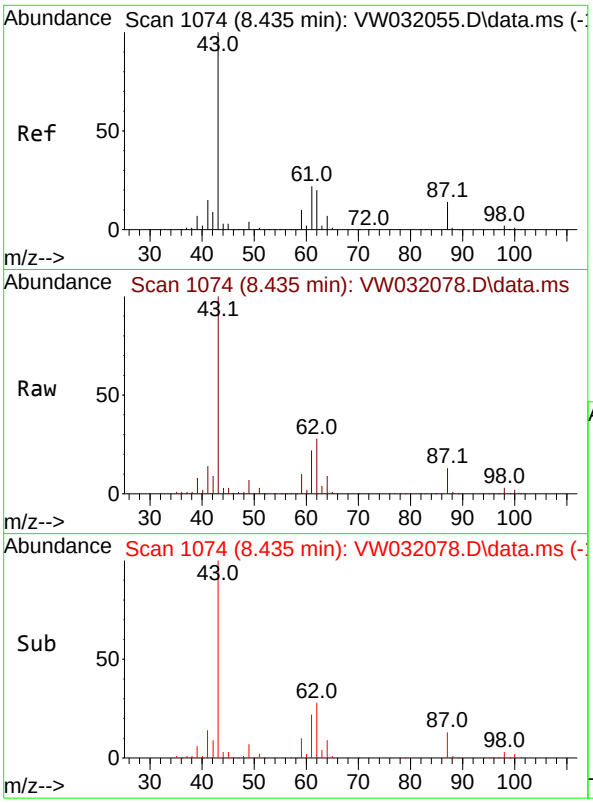


#42
1,2-Dichloroethane
Concen: 48.163 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 180455

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.8

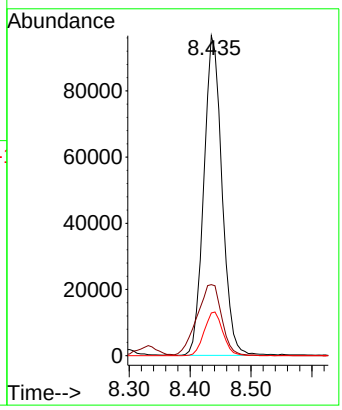




#43
Isopropyl Acetate
Concen: 49.147 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 20060

Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.8	35.8
87	14.1	11.7	17.5



Instrument :
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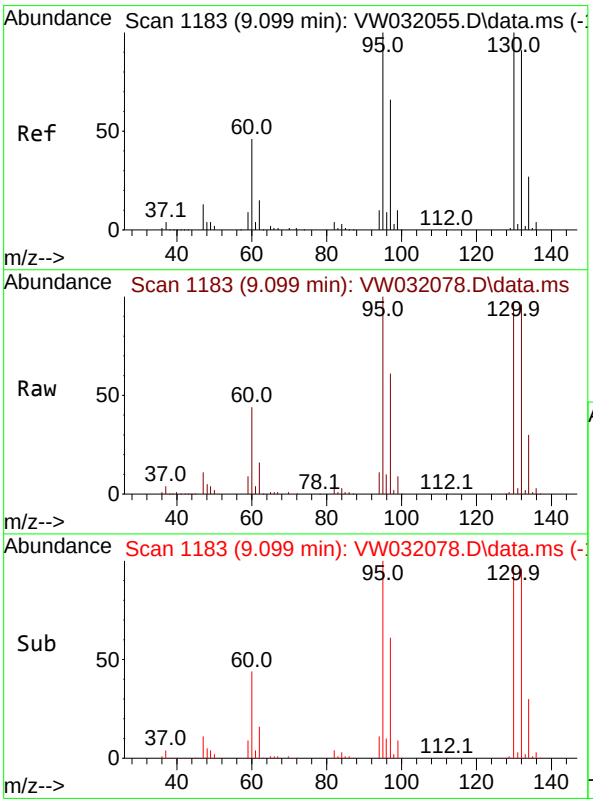
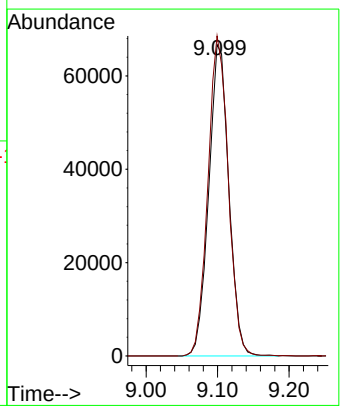
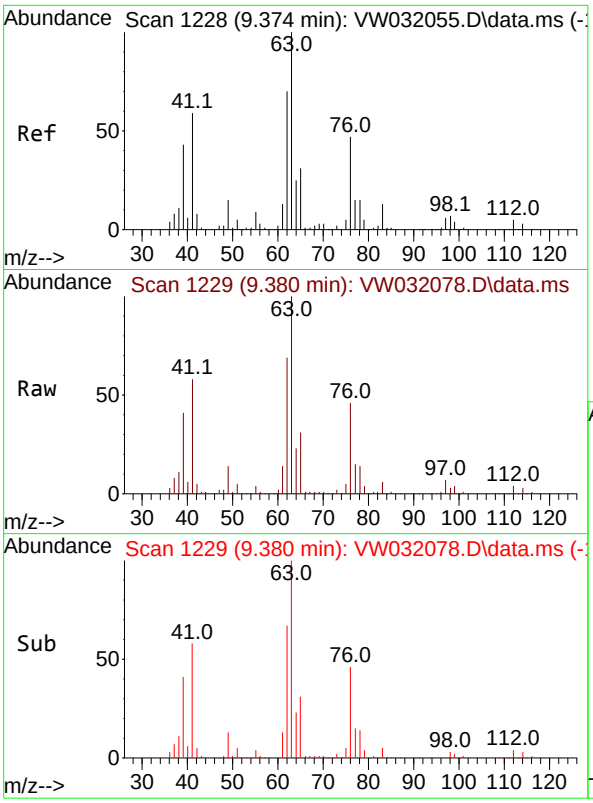


#44
Trichloroethene
Concen: 46.608 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:130 Resp: 129965

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	200.6

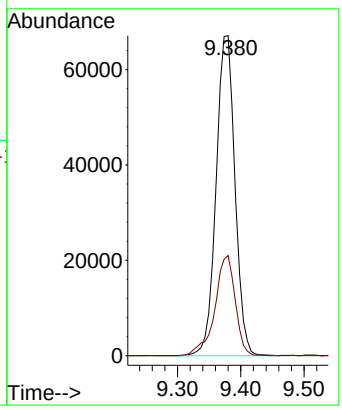




#45
1,2-Dichloropropane
Concen: 49.043 ug/l
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 13873

Ion	Ratio	Lower	Upper
63	100		
65	31.3	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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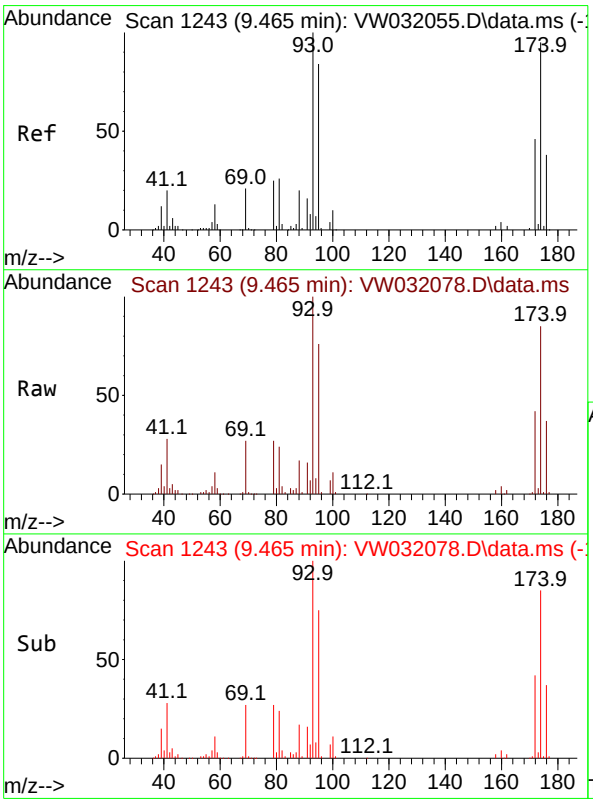
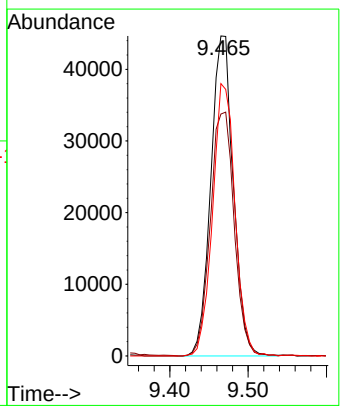
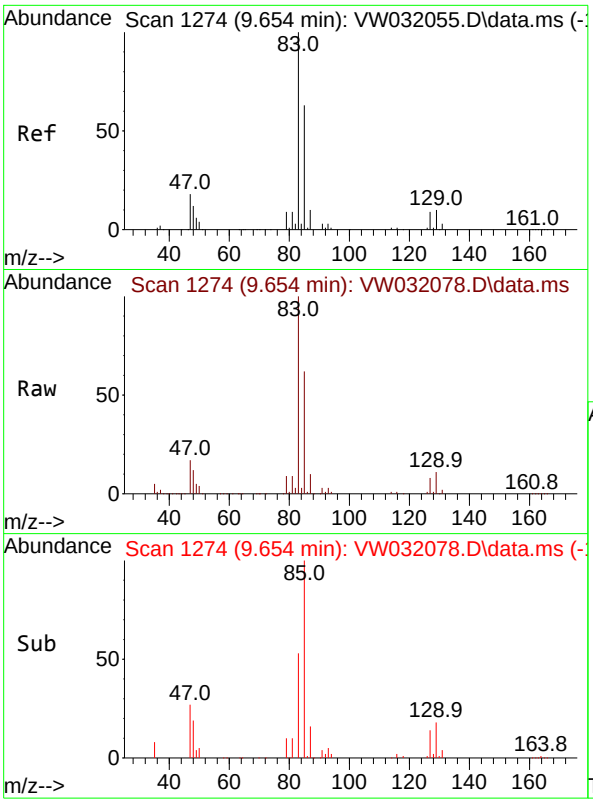


#46
Dibromomethane
Concen: 48.945 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 93 Resp: 89360

Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.3	97.9
174	84.5	68.6	102.8

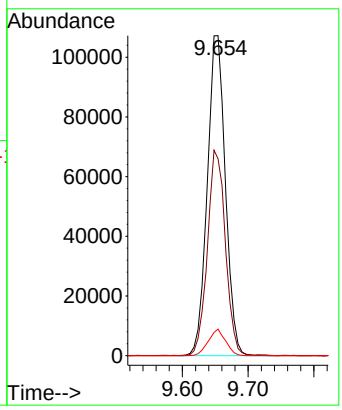




#47
Bromodichloromethane
Concen: 48.852 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 20551

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.6	75.8
127	8.3	6.9	10.3



Instrument :
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ClientSampleId :
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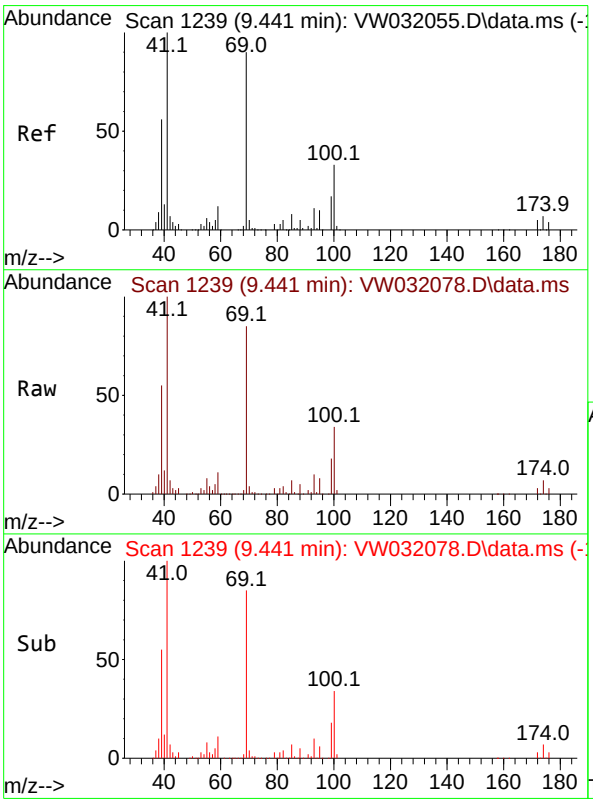
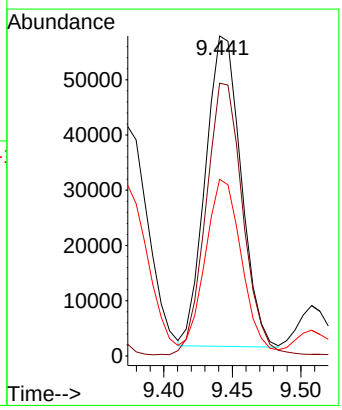
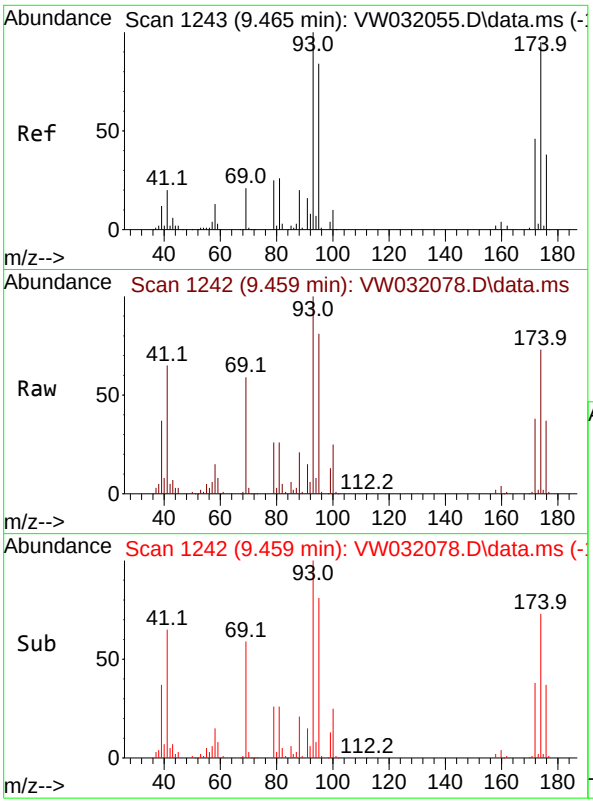


#48
Methyl methacrylate
Concen: 51.471 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 101426

Ion	Ratio	Lower	Upper
41	100		
69	92.0	73.0	109.6
39	58.7	45.0	67.4

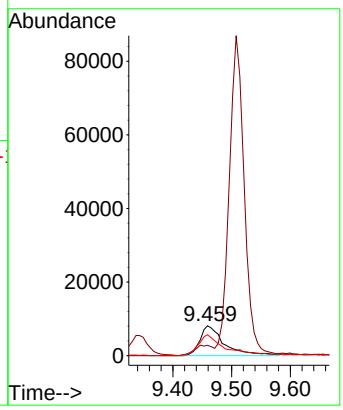




#49
1,4-Dioxane
Concen: 1001.497 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 88 Resp: 2364

Ion	Ratio	Lower	Upper
88	100		
43	26.2	20.6	30.8
58	76.7	60.4	90.6



Instrument :
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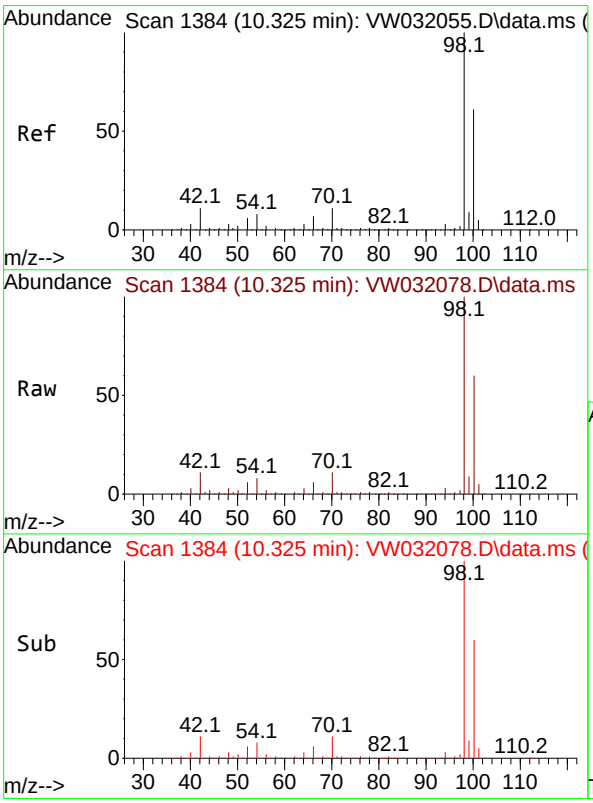
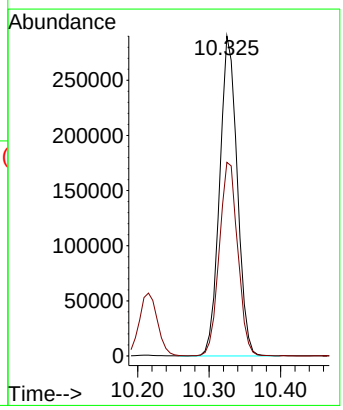
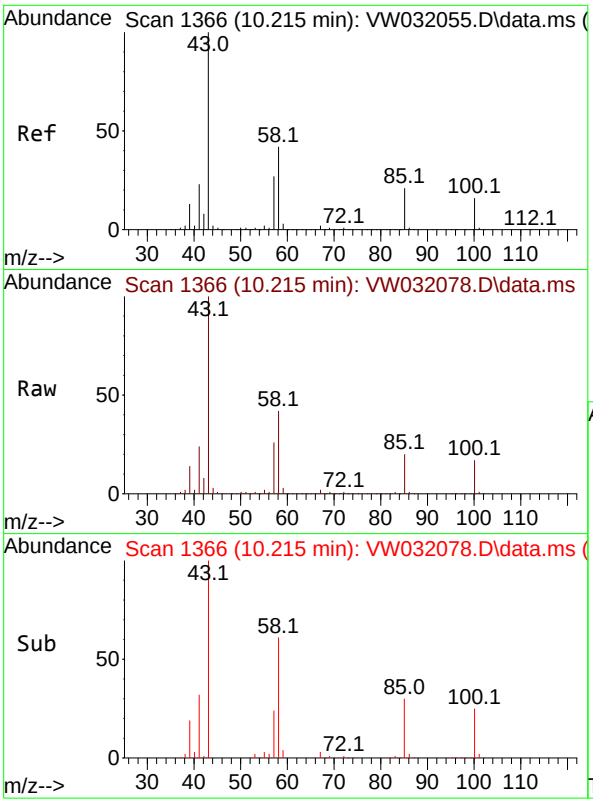


#50
Toluene-d8
Concen: 50.187 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 98 Resp: 496013

Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.1	76.7

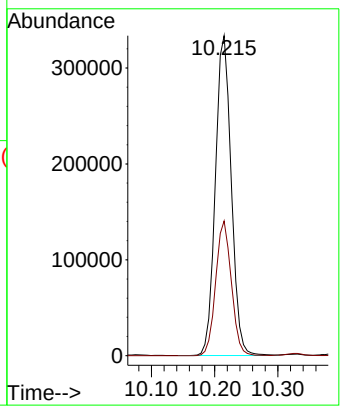




#51
4-Methyl-2-Pentanone
Concen: 252.344 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 58137

Ion	Ratio	Lower	Upper
43	100		
58	41.5	33.1	49.7



Instrument :
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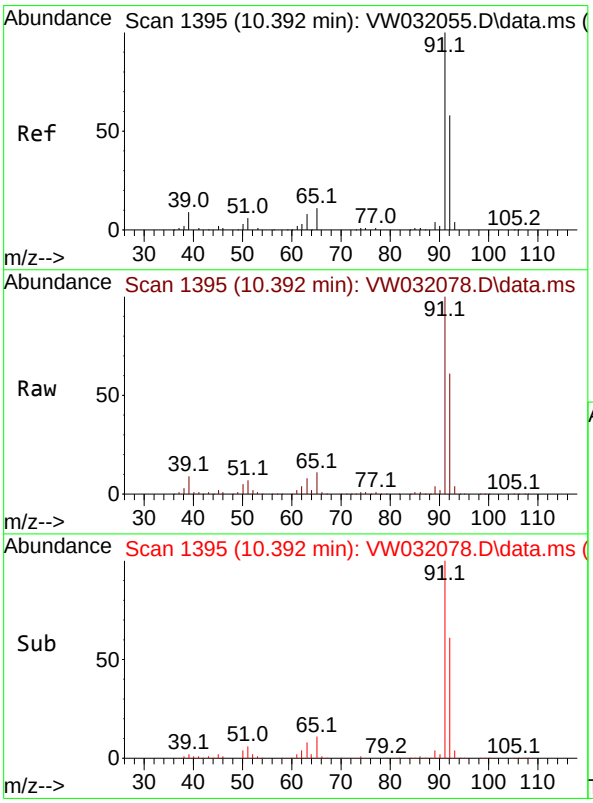
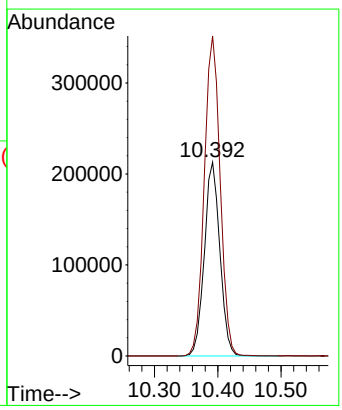
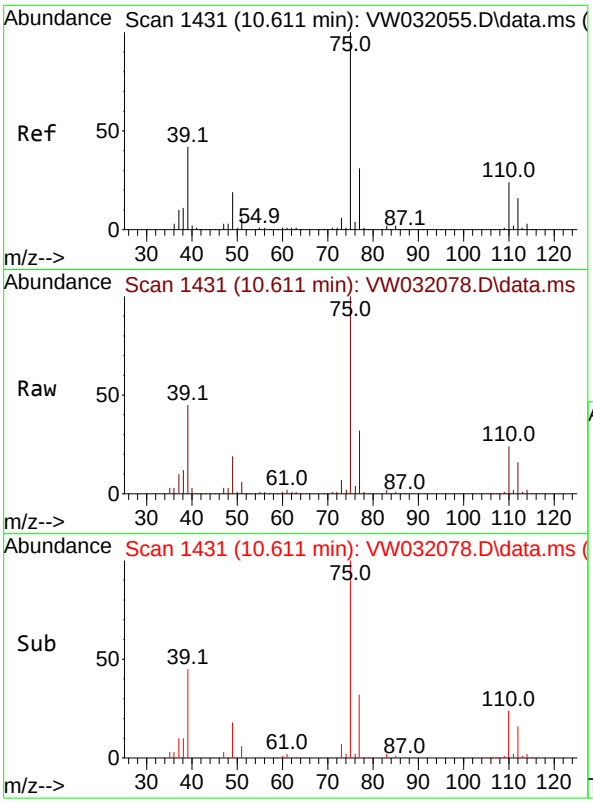


#52
Toluene
Concen: 49.271 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 92 Resp: 363384

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.3	204.5

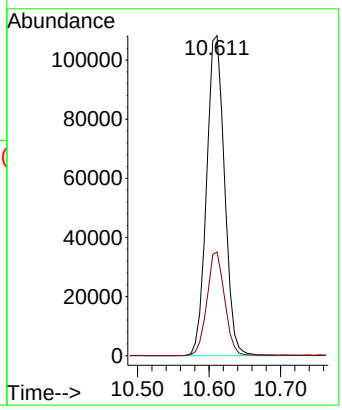




#53
t-1,3-Dichloropropene
Concen: 47.848 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 18858

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.0	37.6



Instrument :
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ClientSampleId :
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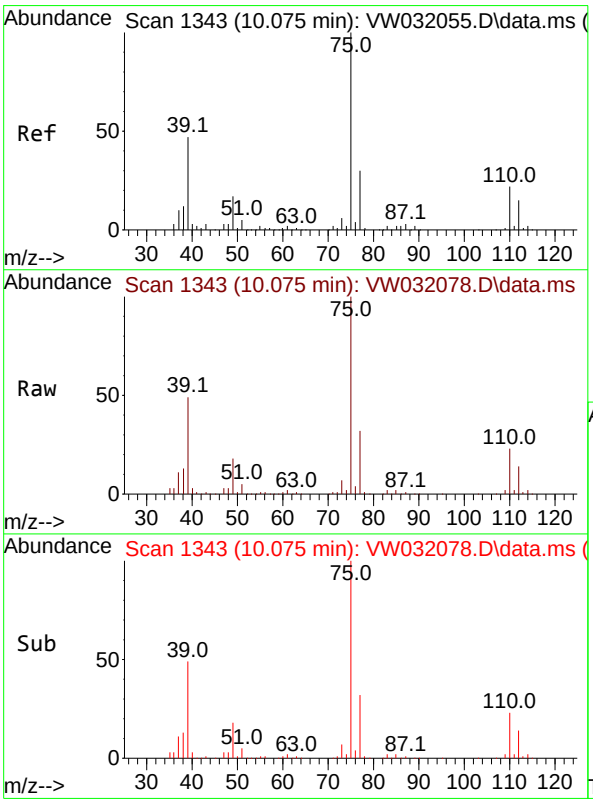
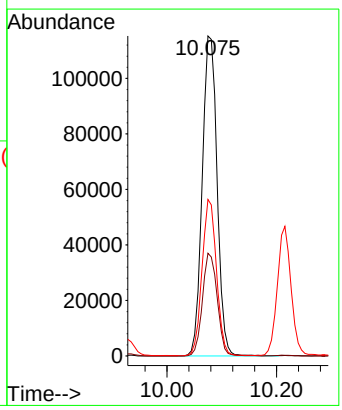
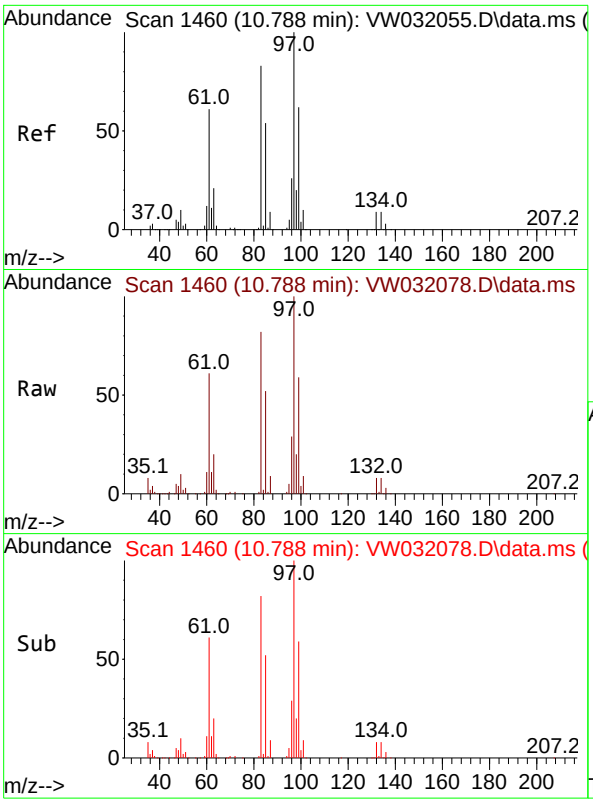


#54
cis-1,3-Dichloropropene
Concen: 48.425 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 216528

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	48.8	37.8	56.8

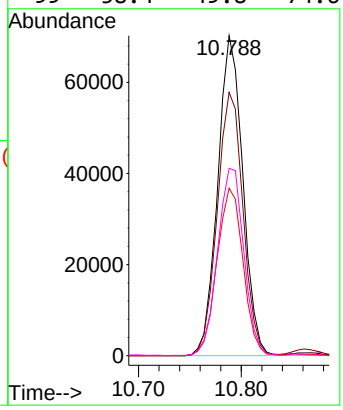




#55
1,1,2-Trichloroethane
Concen: 49.042 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 97 Resp: 11897

Ion	Ratio	Lower	Upper
97	100		
83	82.3	66.4	99.6
85	52.4	43.1	64.7
99	58.4	49.8	74.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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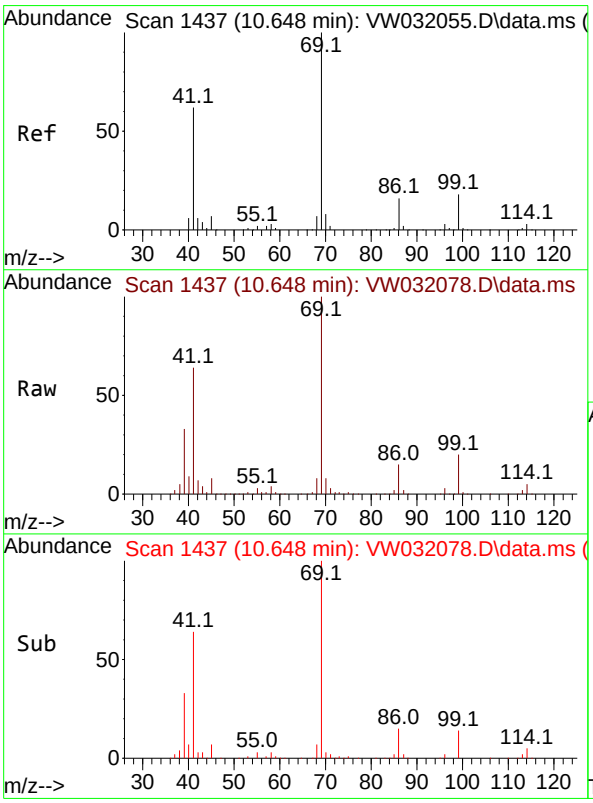
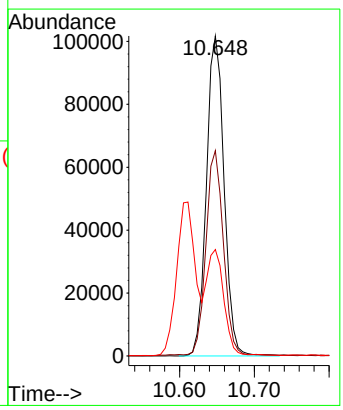
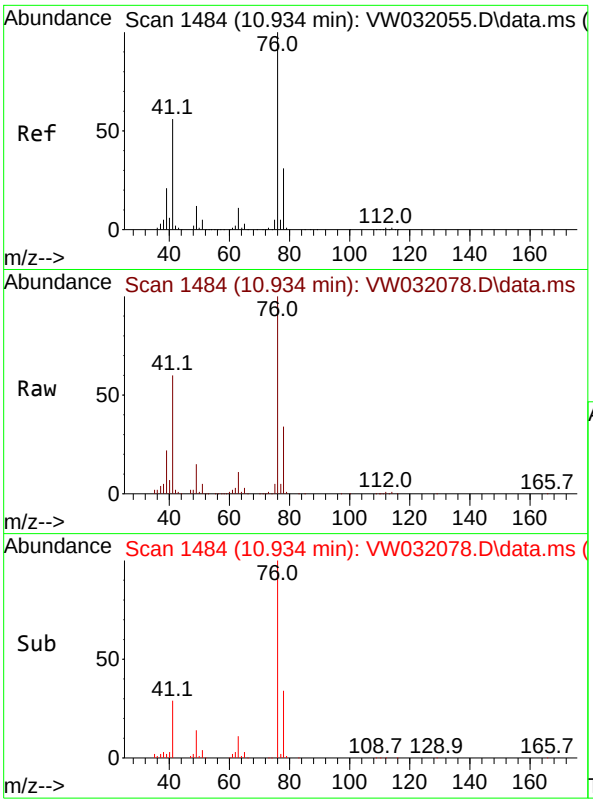


#56
Ethyl methacrylate
Concen: 51.306 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 69 Resp: 166567

Ion	Ratio	Lower	Upper
69	100		
41	64.1	51.2	76.8
39	32.3	25.4	38.0





#57
1,3-Dichloropropane
Concen: 48.292 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 76 Resp: 20422

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.6

Instrument :
MSVOA_W
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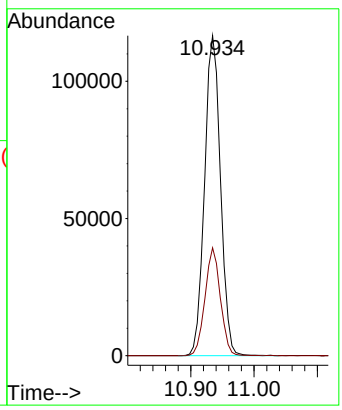
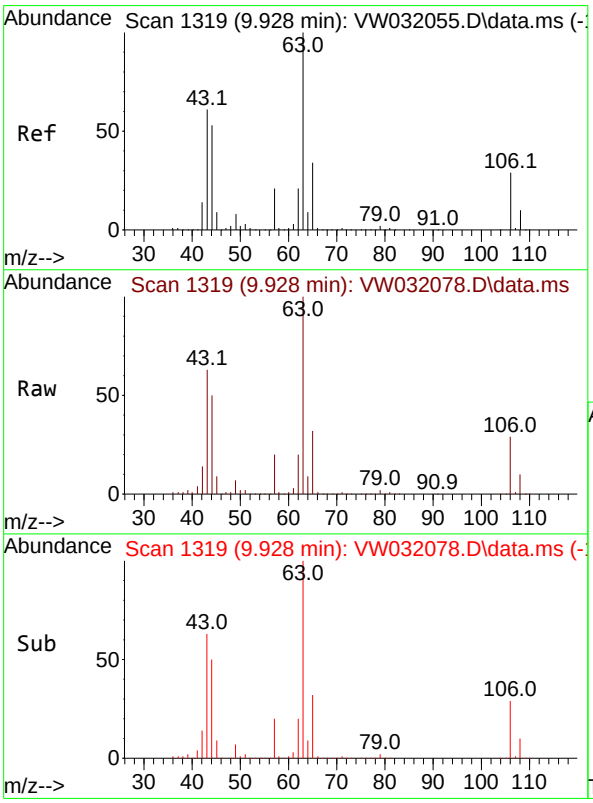
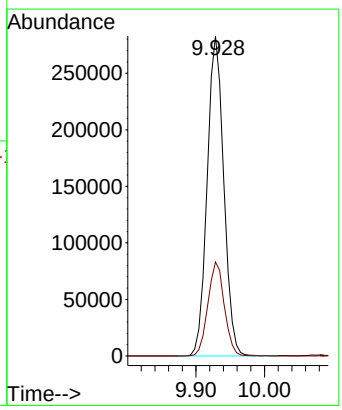


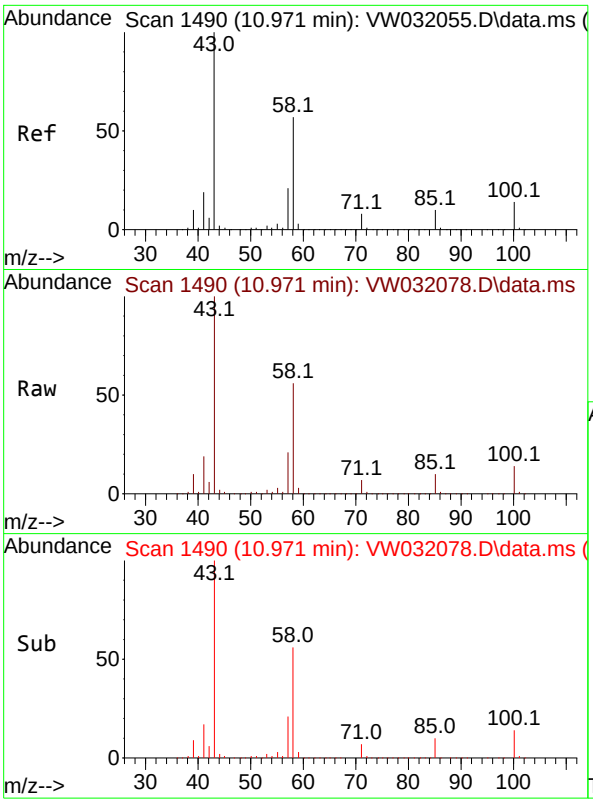


#58
2-Chloroethyl Vinyl ether
Concen: 265.209 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 476248

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3





#59
2-Hexanone
Concen: 253.545 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 40455

Ion	Ratio	Lower	Upper
43	100		
58	56.9	28.3	85.0

Instrument :
MSVOA_W
ClientSampleId :
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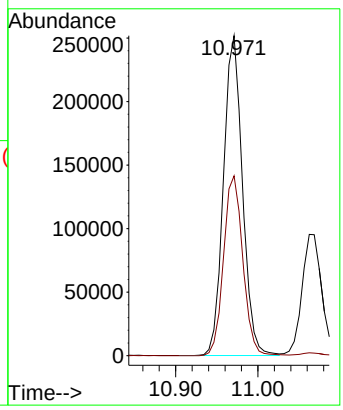
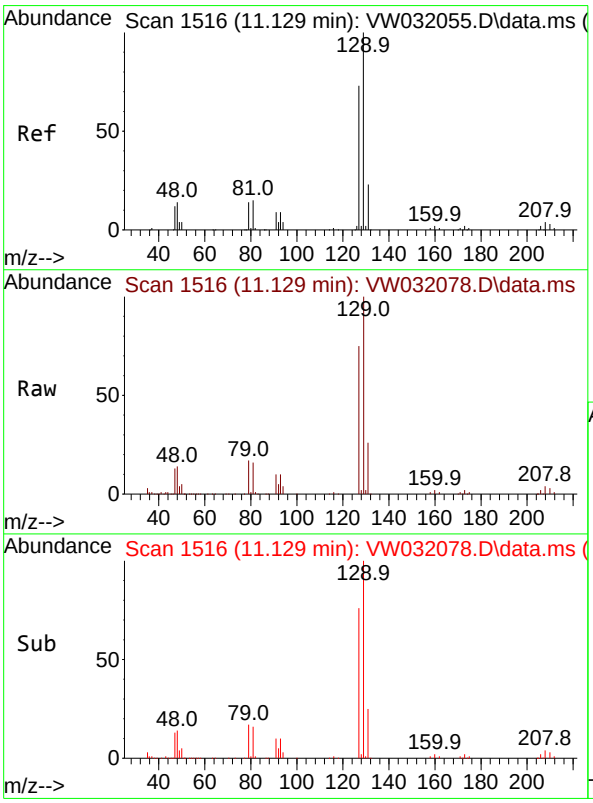
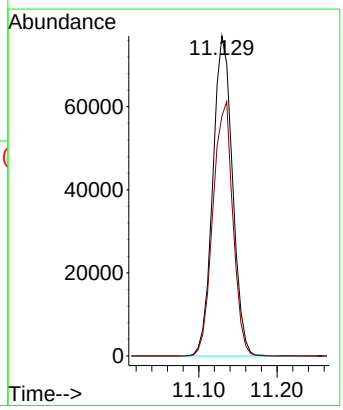


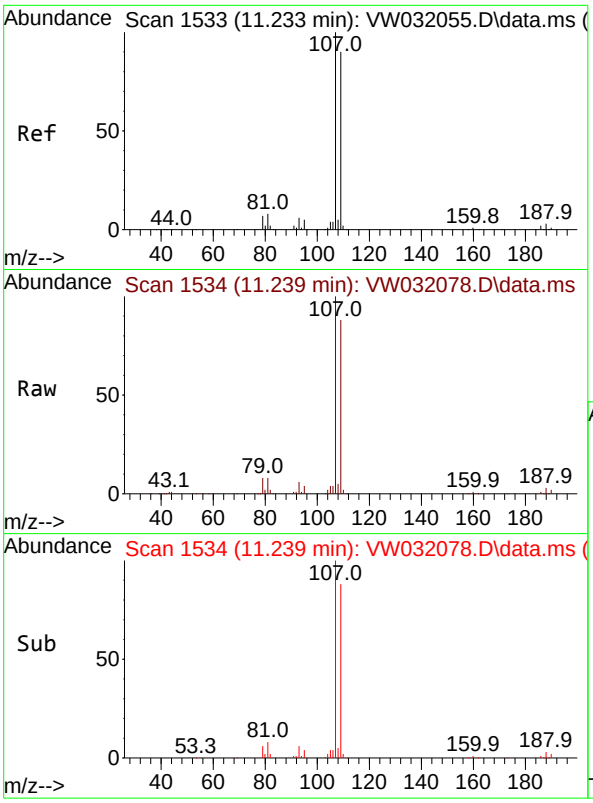


#60
Dibromochloromethane
Concen: 48.560 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:129 Resp: 134574

Ion	Ratio	Lower	Upper
129	100		
127	80.4	39.0	116.9

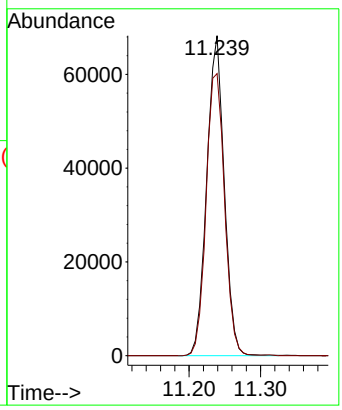




#61
1,2-Dibromoethane
Concen: 49.186 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:107 Resp: 11596

Ion	Ratio	Lower	Upper
107	100		
109	92.9	74.2	111.4



Instrument :
MSVOA_W
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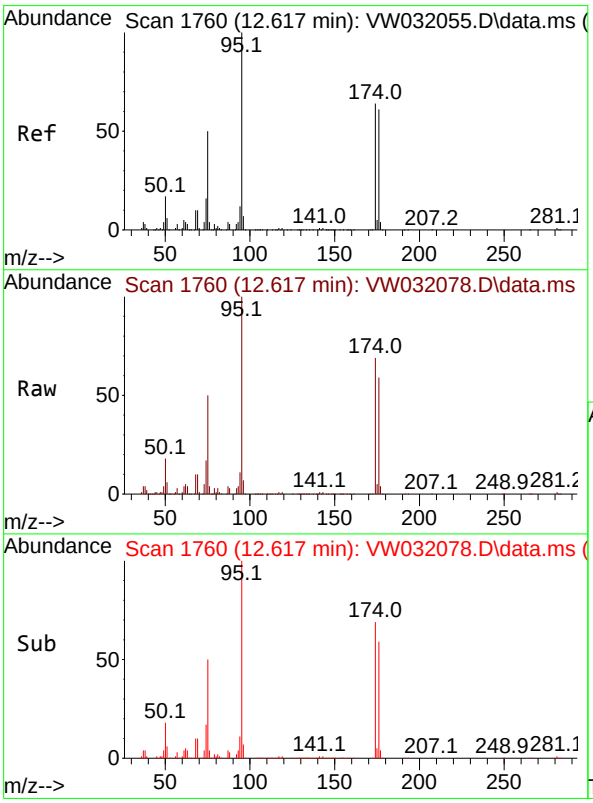
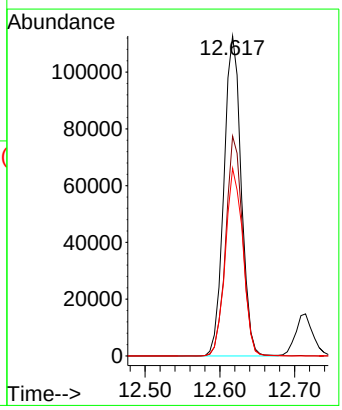
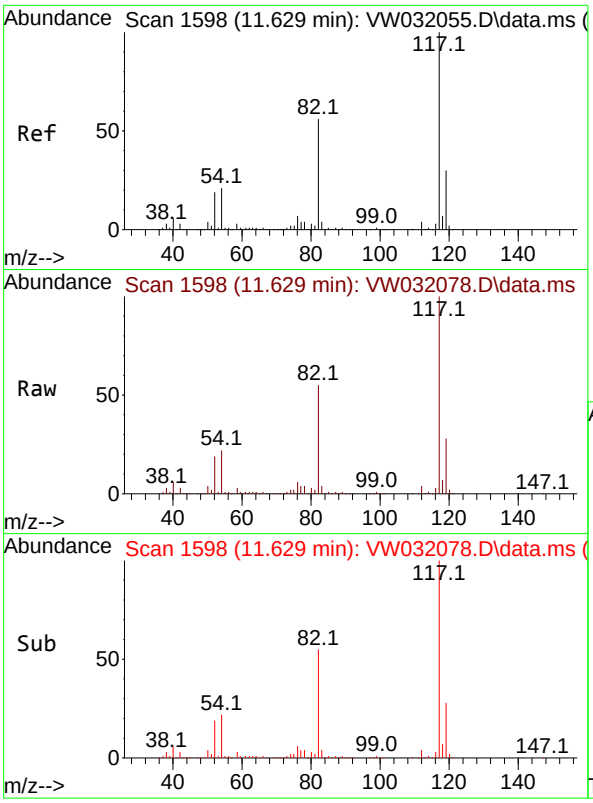


#62
4-Bromofluorobenzene
Concen: 49.666 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 95 Resp: 180889

Ion	Ratio	Lower	Upper
95	100		
174	66.8	0.0	129.0
176	59.8	0.0	124.6

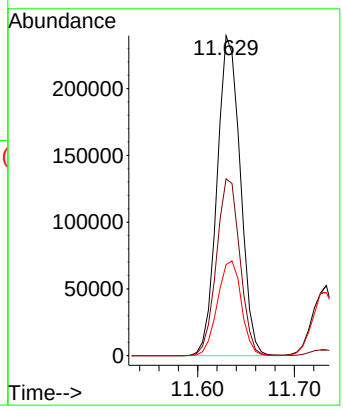




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 39922

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.0	67.4
119	28.4	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
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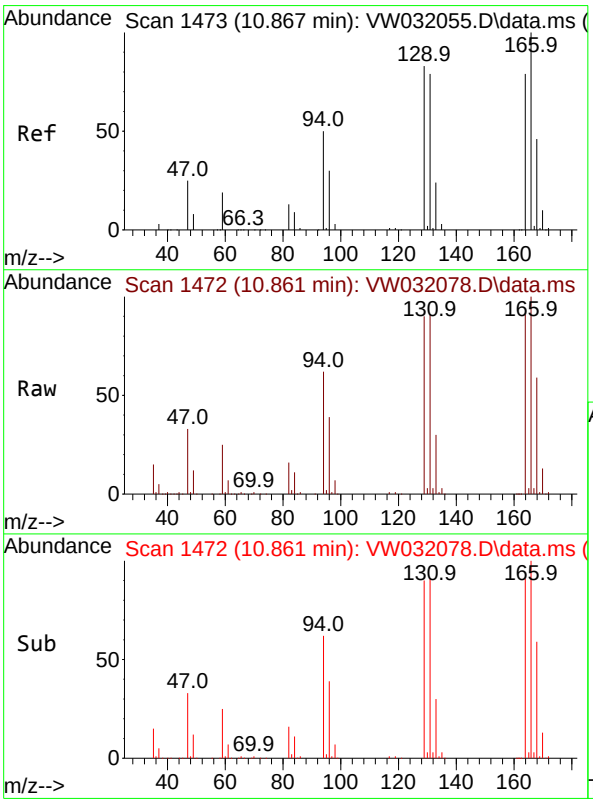
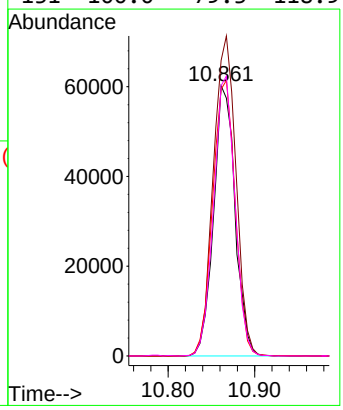
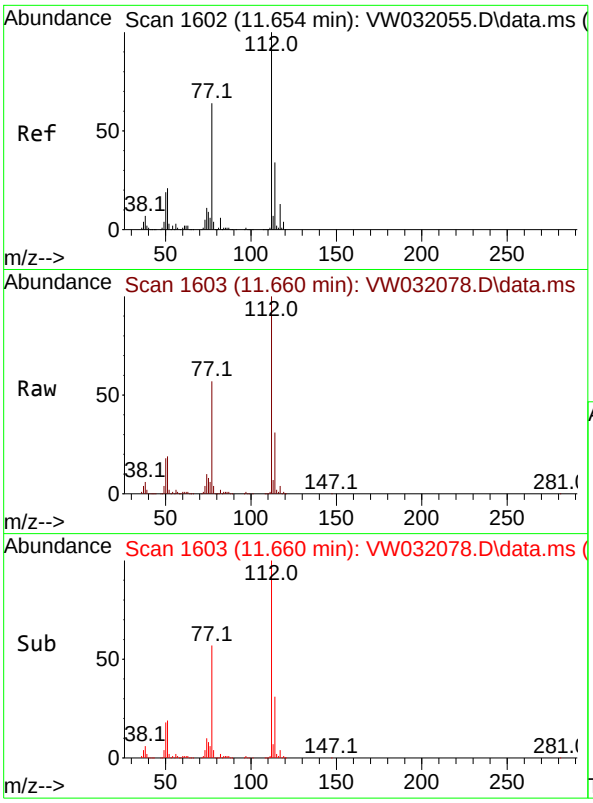


#64
Tetrachloroethene
Concen: 44.767 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:164 Resp: 103230

Ion	Ratio	Lower	Upper
164	100		
166	109.4	100.9	151.3
129	98.7	83.6	125.4
131	100.0	79.3	118.9

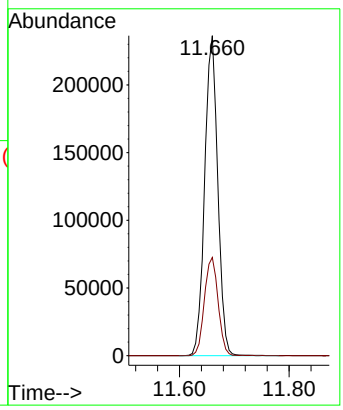




#65
Chlorobenzene
Concen: 44.896 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:112 Resp: 39013

Ion	Ratio	Lower	Upper
112	100		
114	30.7	26.9	40.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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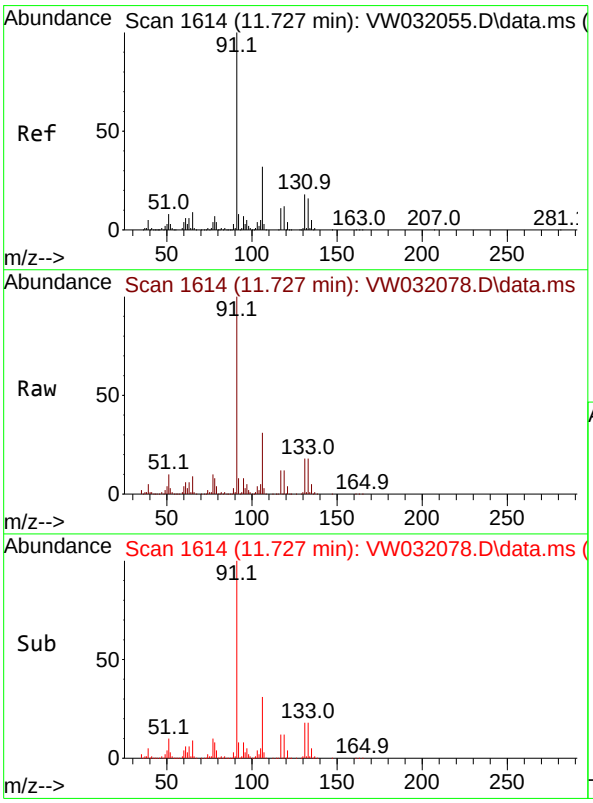
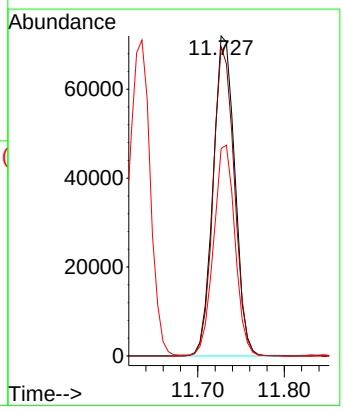
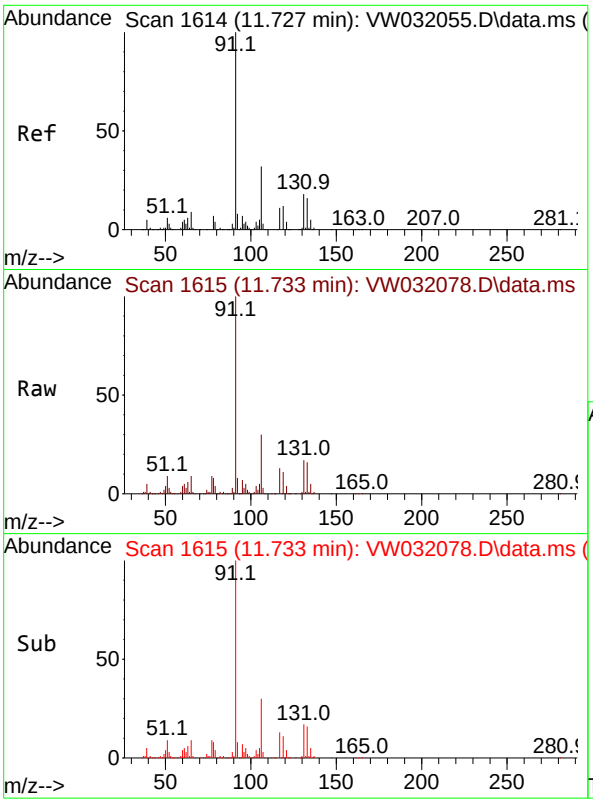


#66
1,1,1,2-Tetrachloroethane
Concen: 46.243 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:131 Resp: 125374

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	142.0
119	65.2	34.5	103.5

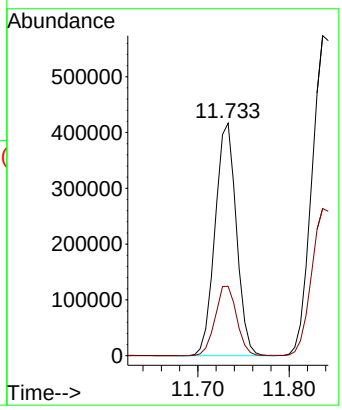




#67
Ethyl Benzene
Concen: 45.839 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 67471

Ion	Ratio	Lower	Upper
91	100		
106	29.9	25.4	38.0



Instrument :
MSVOA_W
ClientSampleId :
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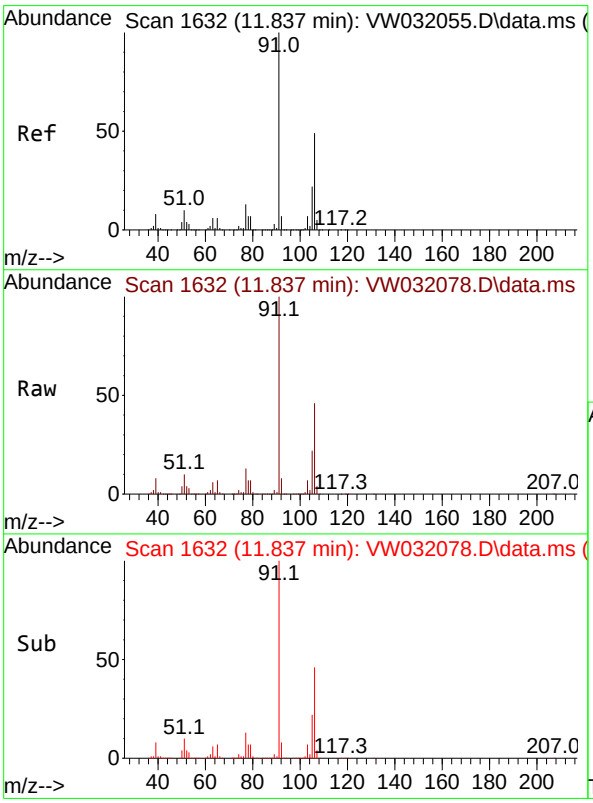
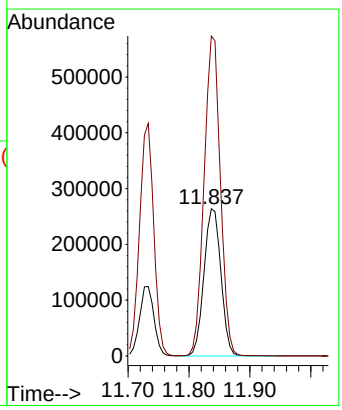
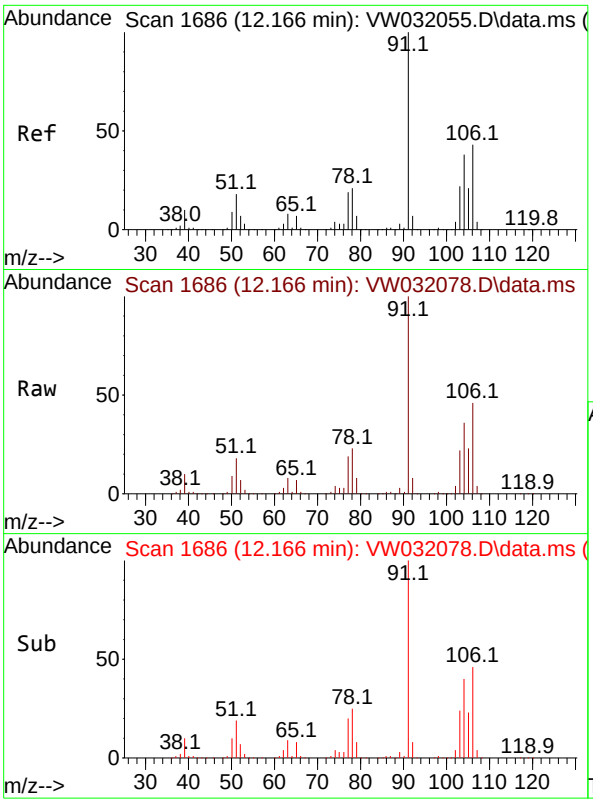


#68
m/p-Xylenes
Concen: 89.674 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:106 Resp: 509322

Ion	Ratio	Lower	Upper
106	100		
91	209.4	162.2	243.2

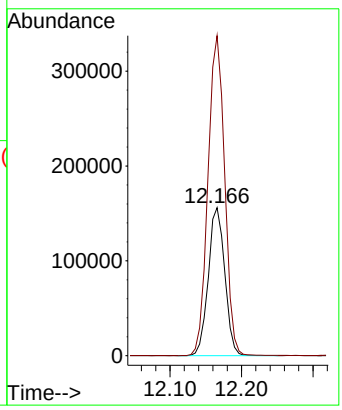




#69
o-Xylene
Concen: 47.586 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:106 Resp: 24980

Ion	Ratio	Lower	Upper
106	100		
91	219.3	110.8	332.3



Instrument :
MSVOA_W
ClientSampleId :
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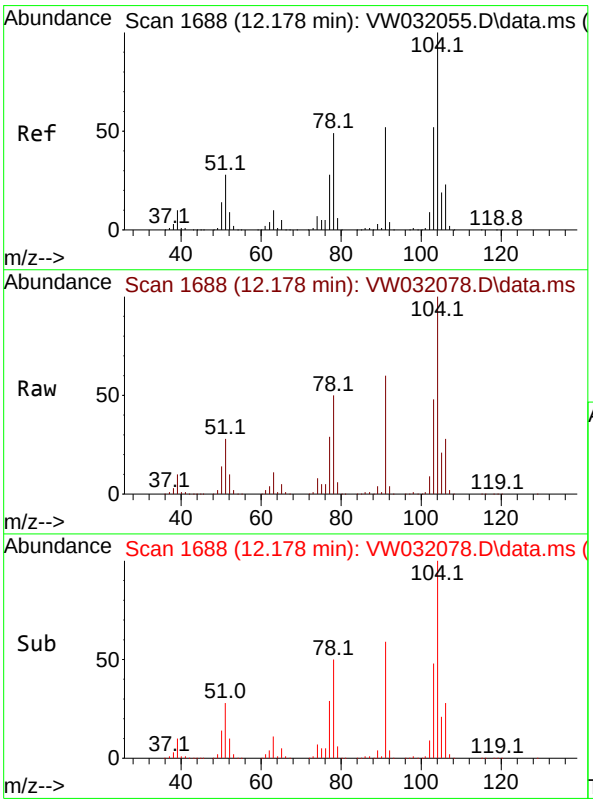
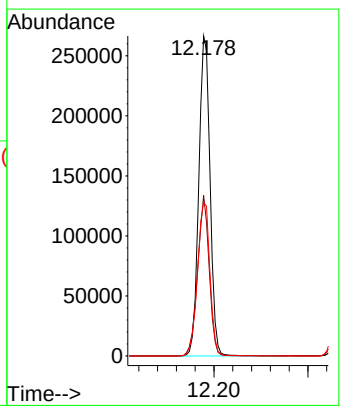
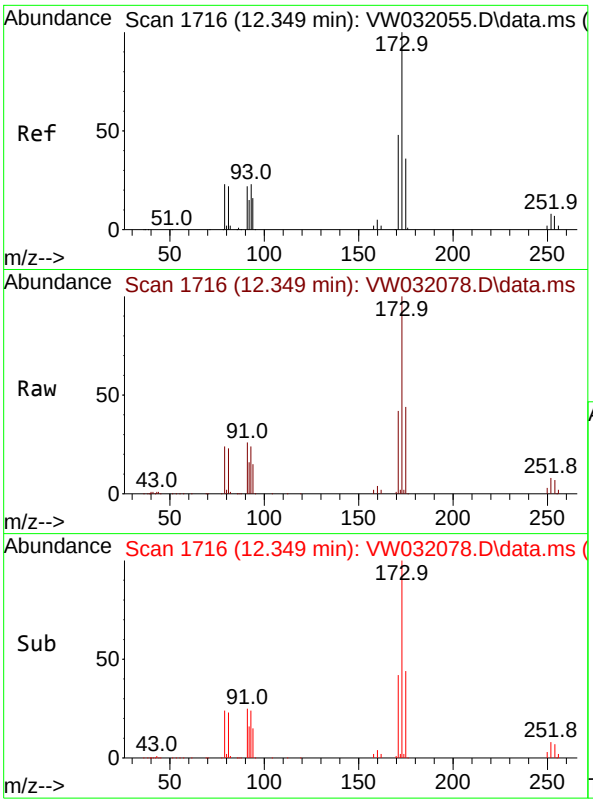


#70
Styrene
Concen: 47.626 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:104 Resp: 444091

Ion	Ratio	Lower	Upper
104	100		
78	51.3	41.2	61.8
103	53.0	43.8	65.8

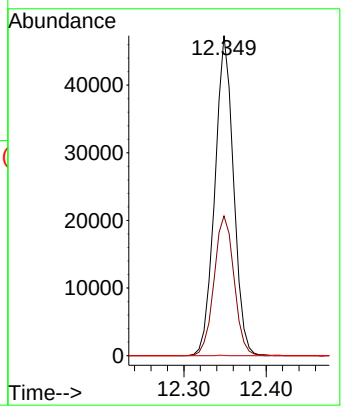




#71
Bromoform
Concen: 48.185 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:173 Resp: 7472

Ion	Ratio	Lower	Upper
173	100		
175	46.6	22.9	68.7
254	0.1	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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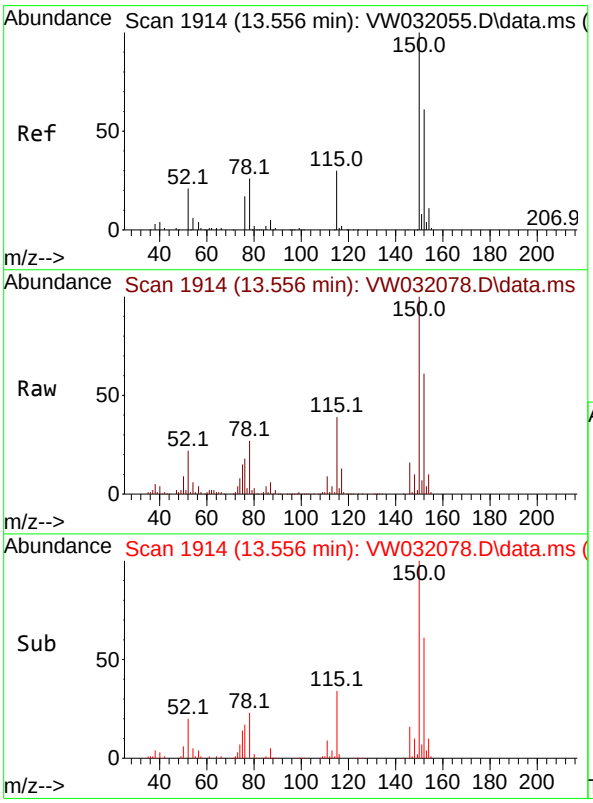
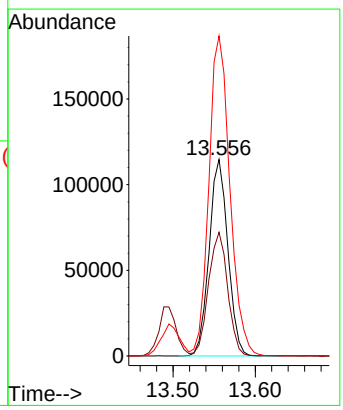
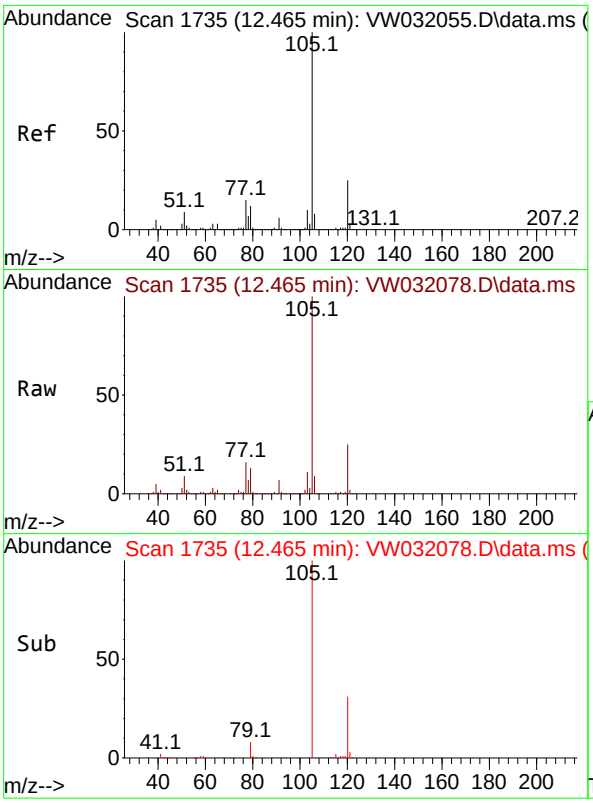


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:152 Resp: 181926

Ion	Ratio	Lower	Upper
152	100		
115	64.3	32.6	97.8
150	182.0	0.0	359.4





#73
Isopropylbenzene
Concen: 48.421 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 61563

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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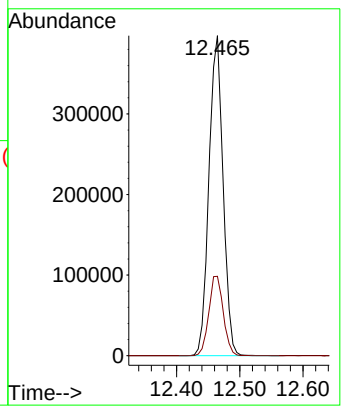
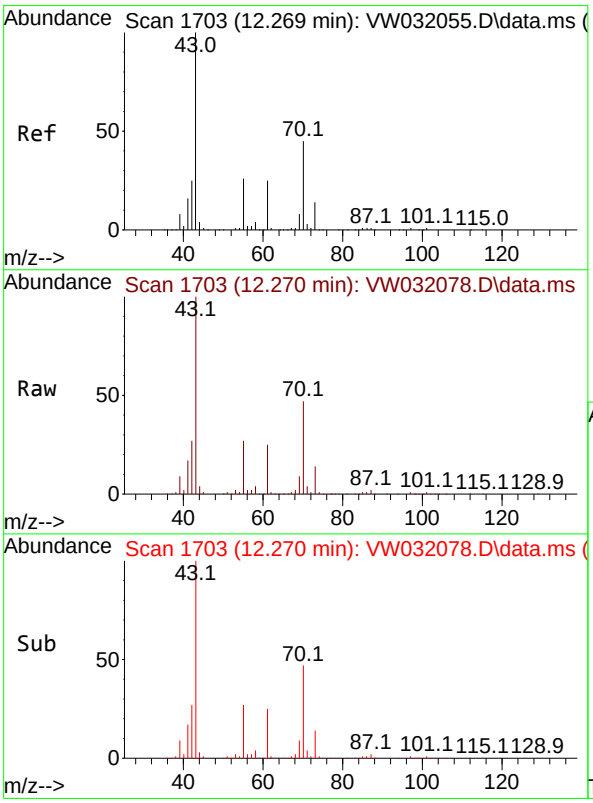
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

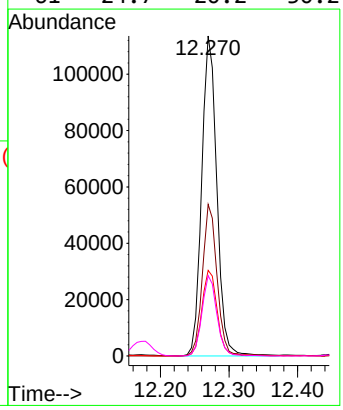


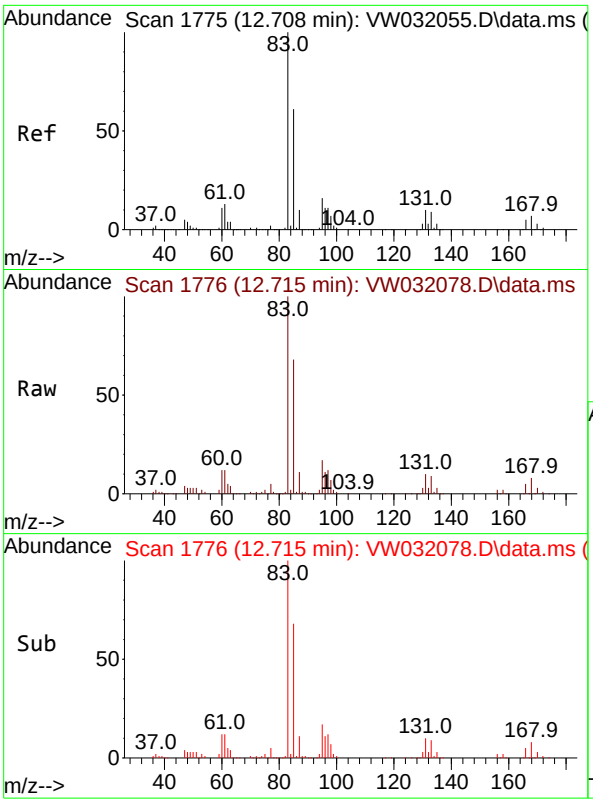


#74
N-amyl acetate
Concen: 47.933 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 174844

Ion	Ratio	Lower	Upper
43	100		
70	45.6	37.0	55.4
55	27.2	21.1	31.7
61	24.7	20.2	30.2





#75
1,1,2,2-Tetrachloroethane
Concen: 47.484 ug/l
RT: 12.715 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 14334

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.1	15.4
85	66.6	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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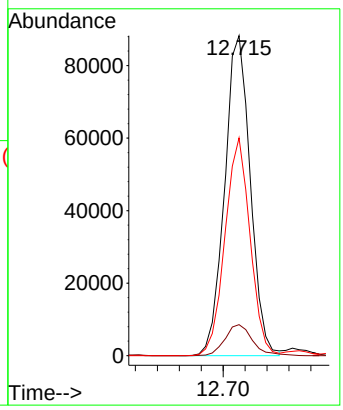
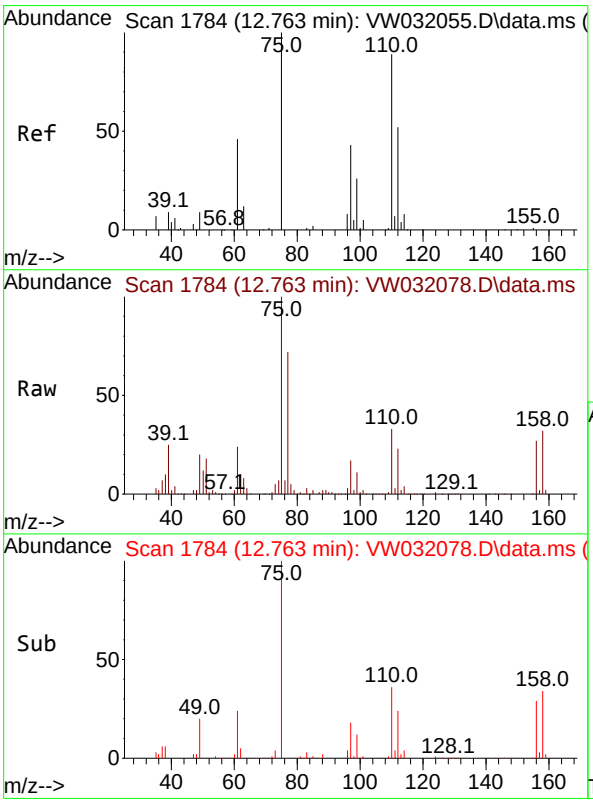
Supervised By :Semsettin Yesilyurt 08/12/2025

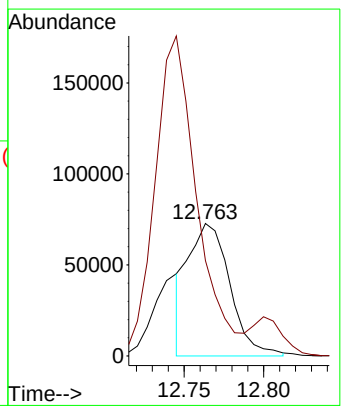


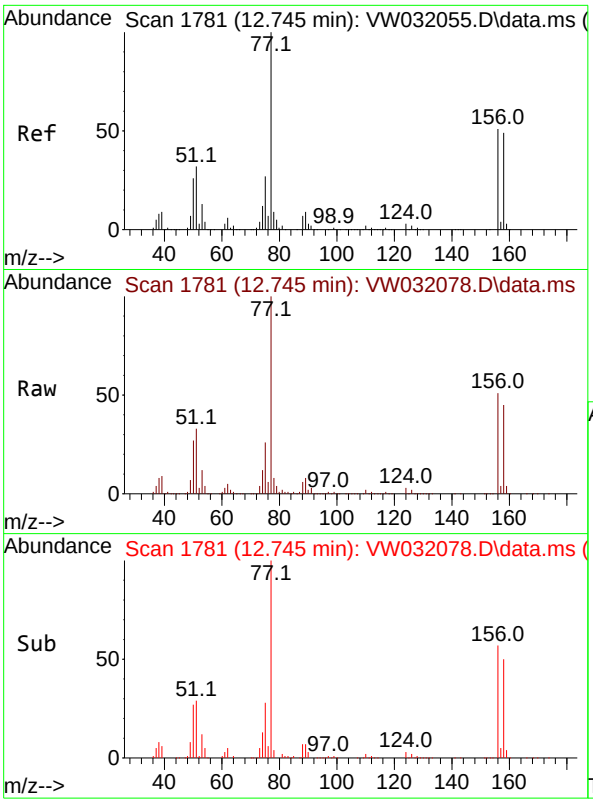


#76
1,2,3-Trichloropropane
Concen: 53.760 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 132741

Ion	Ratio	Lower	Upper
75	100		
77	243.5	123.5	370.5

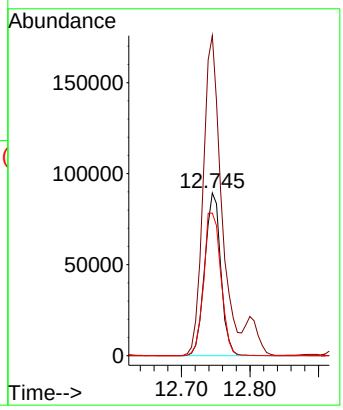




#77
Bromobenzene
Concen: 47.865 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:156 Resp: 14534

Ion	Ratio	Lower	Upper
156	100		
77	222.4	108.7	326.3
158	94.8	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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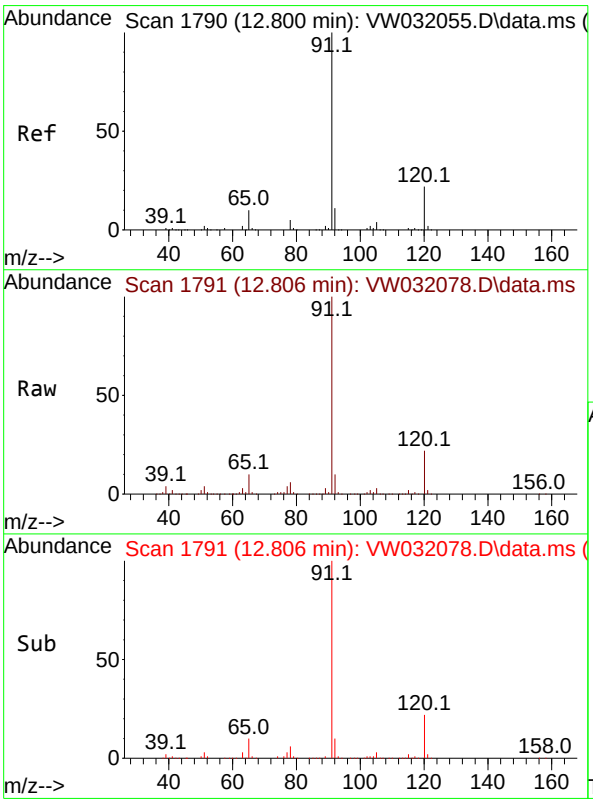
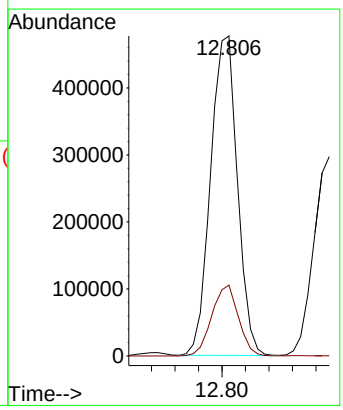
Supervised By :Semsettin Yesilyurt 08/12/2025

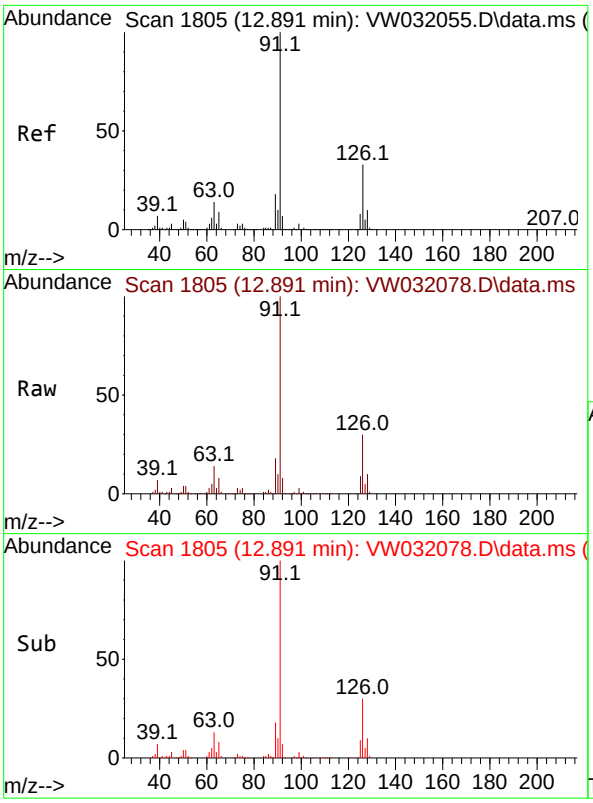


#78
n-propylbenzene
Concen: 48.311 ug/l
RT: 12.806 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 756214

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3





#79
2-Chlorotoluene
Concen: 48.578 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 46929

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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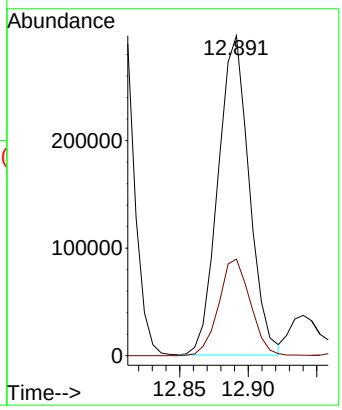
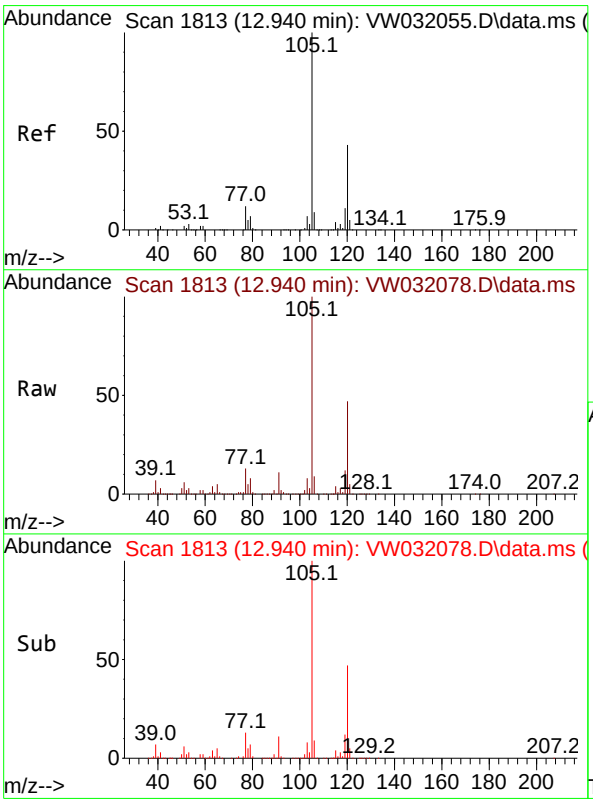
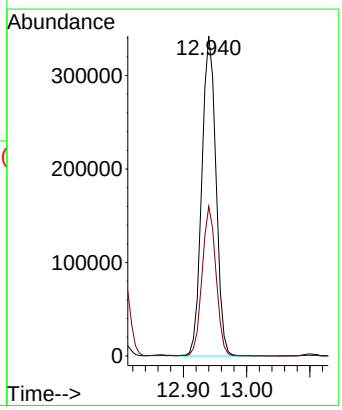


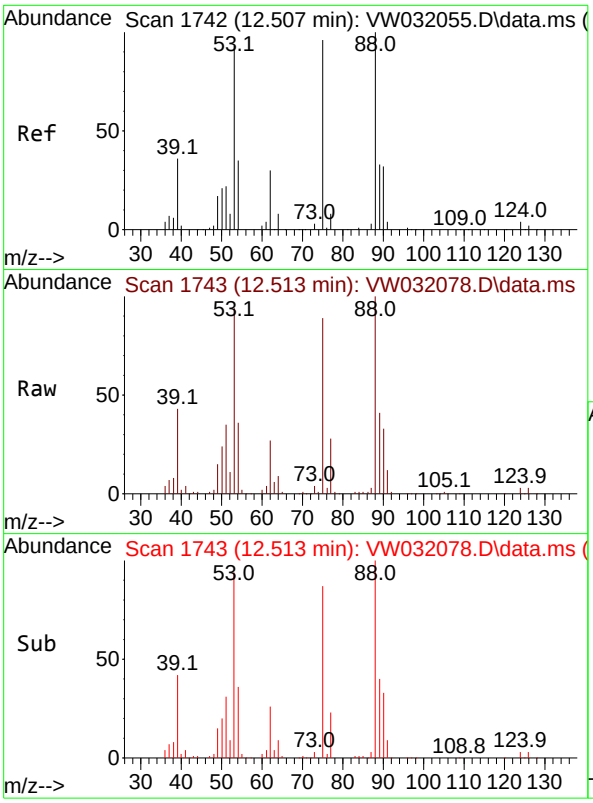


#80
1,3,5-Trimethylbenzene
Concen: 49.484 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 534122

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 46.037 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 4390

Ion	Ratio	Lower	Upper
75	100		
53	106.1	81.0	121.6
89	46.9	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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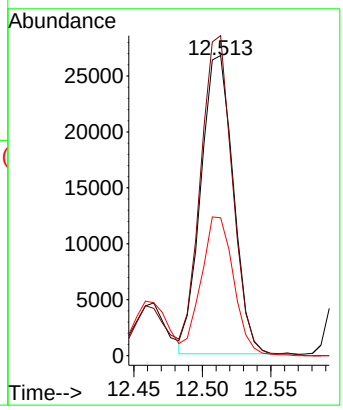
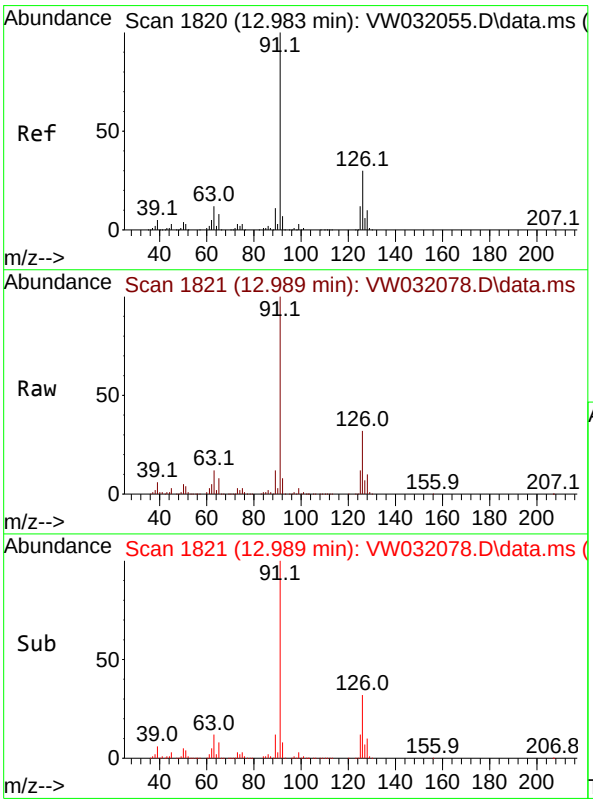
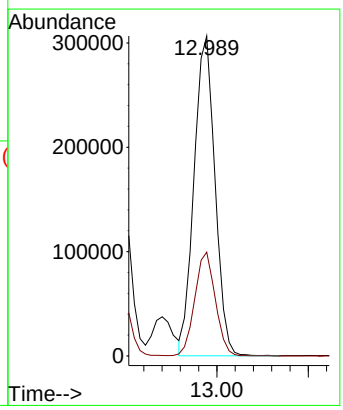


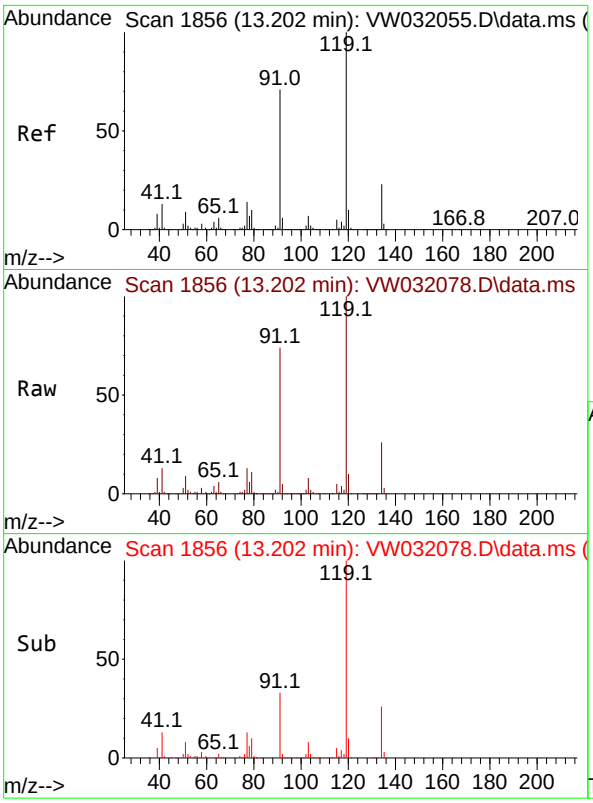


#82
4-Chlorotoluene
Concen: 47.464 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 487171

Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.5	46.5

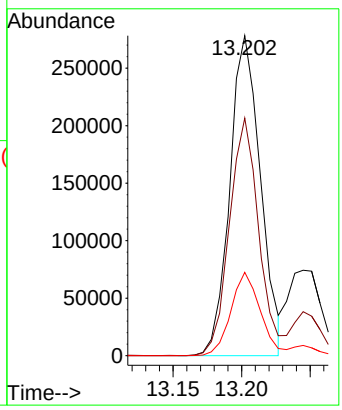




#83
tert-Butylbenzene
Concen: 48.424 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:119 Resp: 43378

Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.3	105.9
134	25.1	12.1	36.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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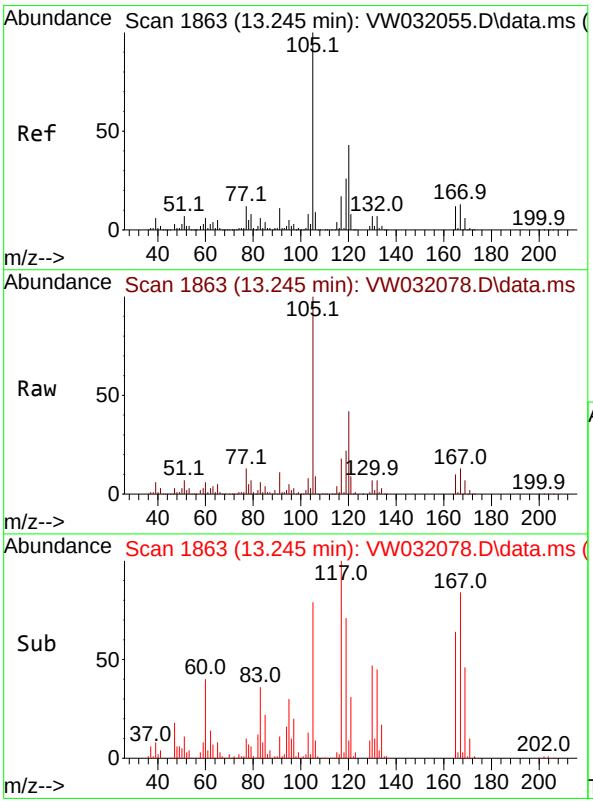
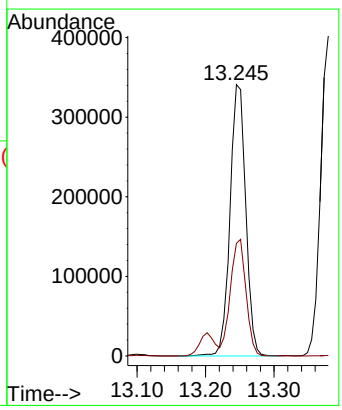
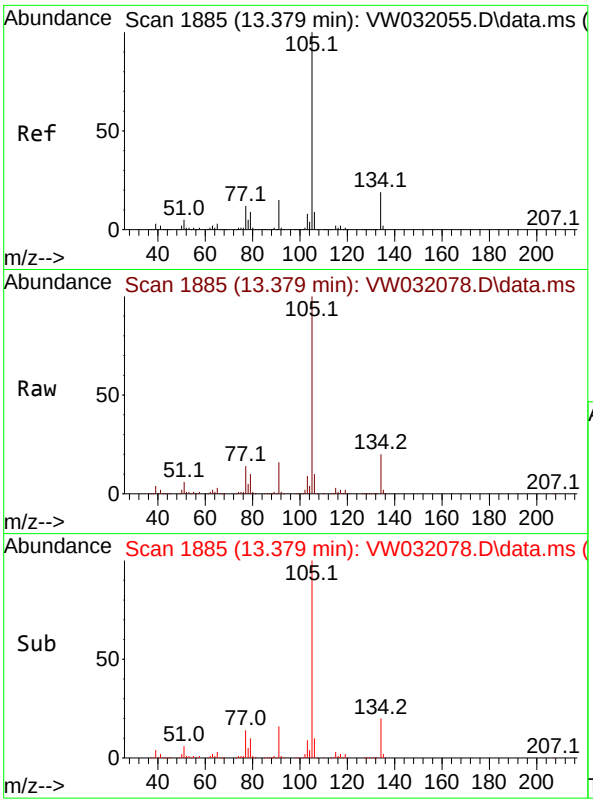


#84
1,2,4-Trimethylbenzene
Concen: 49.477 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 543640

Ion	Ratio	Lower	Upper
105	100		
120	42.9	21.6	64.8

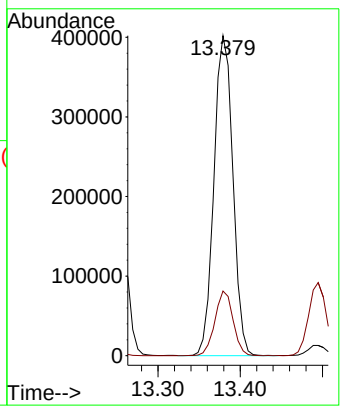




#85
sec-Butylbenzene
Concen: 47.482 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 64308

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.9	29.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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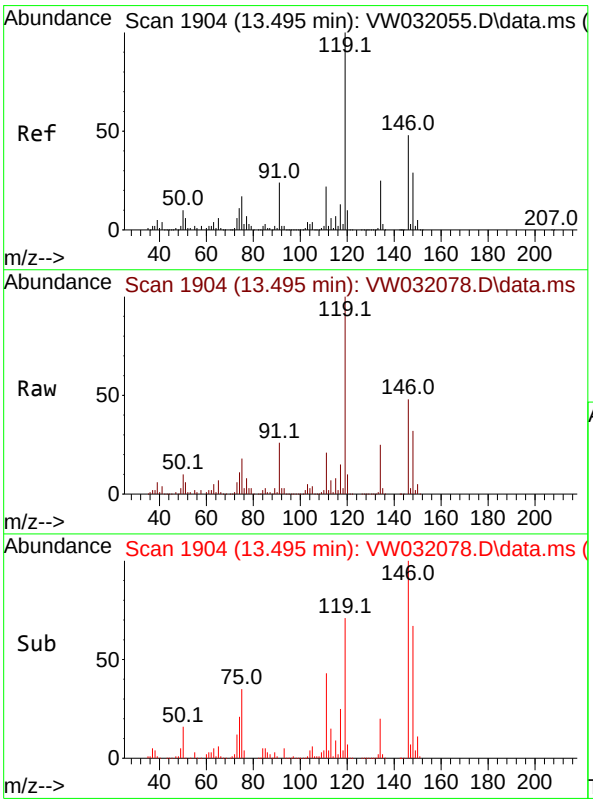
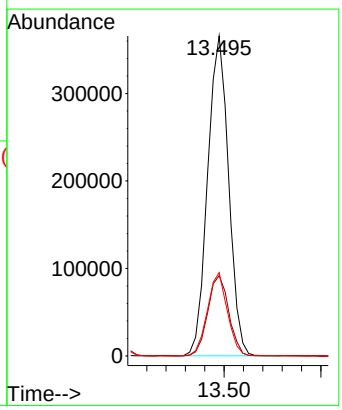
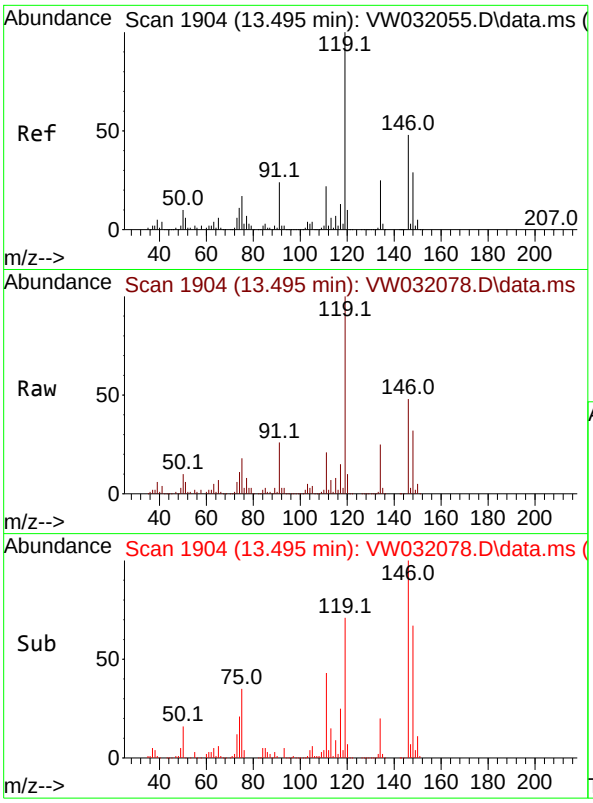


#86
p-Isopropyltoluene
Concen: 48.708 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:119 Resp: 549955

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.4	37.0
91	24.7	12.1	36.3

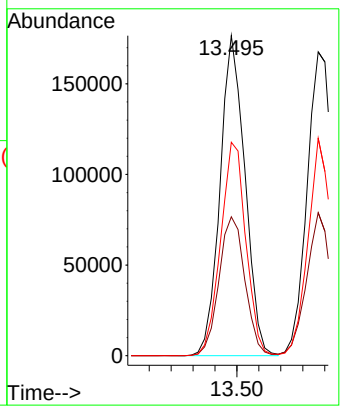




#87
1,3-Dichlorobenzene
Concen: 46.057 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 27829

Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.2	63.6
148	67.7	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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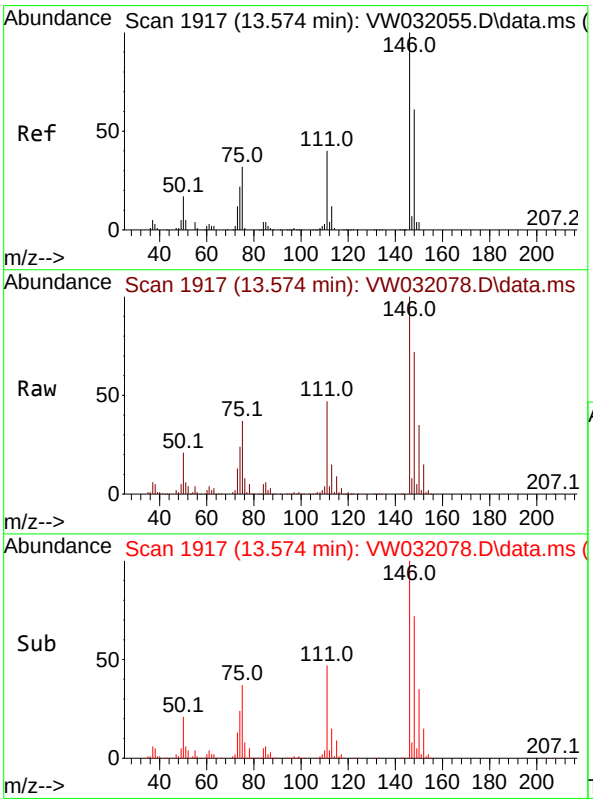
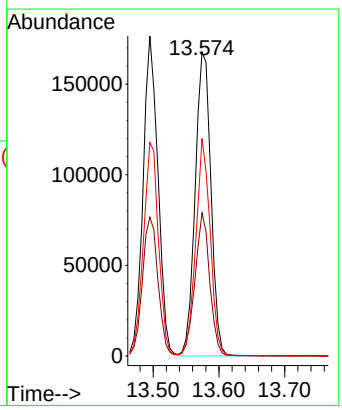
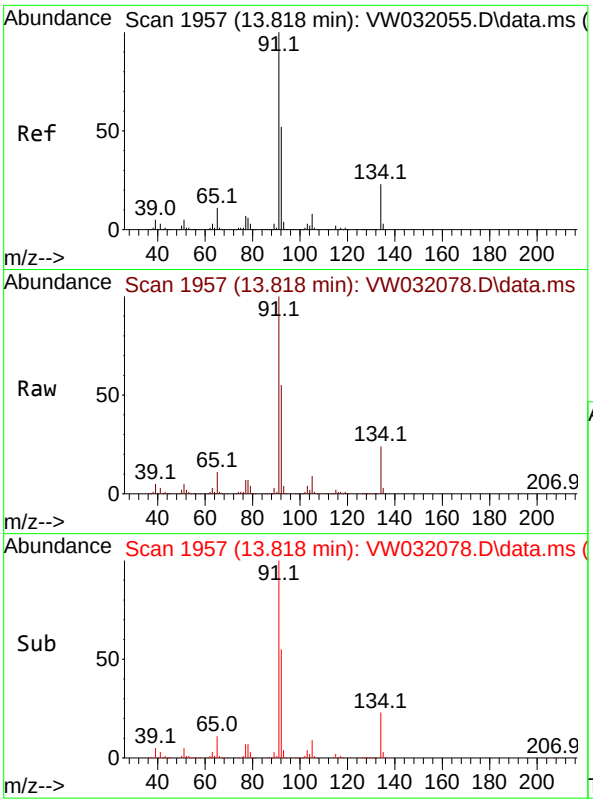


#88
1,4-Dichlorobenzene
Concen: 45.431 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 277410

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.6	64.6
148	65.6	32.0	96.2

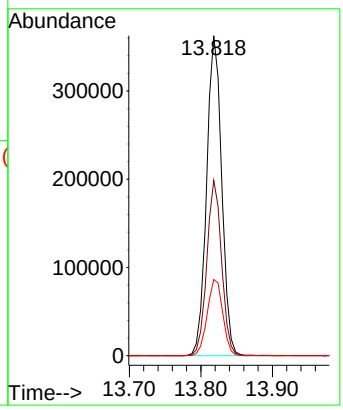




#89
n-Butylbenzene
Concen: 48.414 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 53106

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.7	80.1
134	24.5	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

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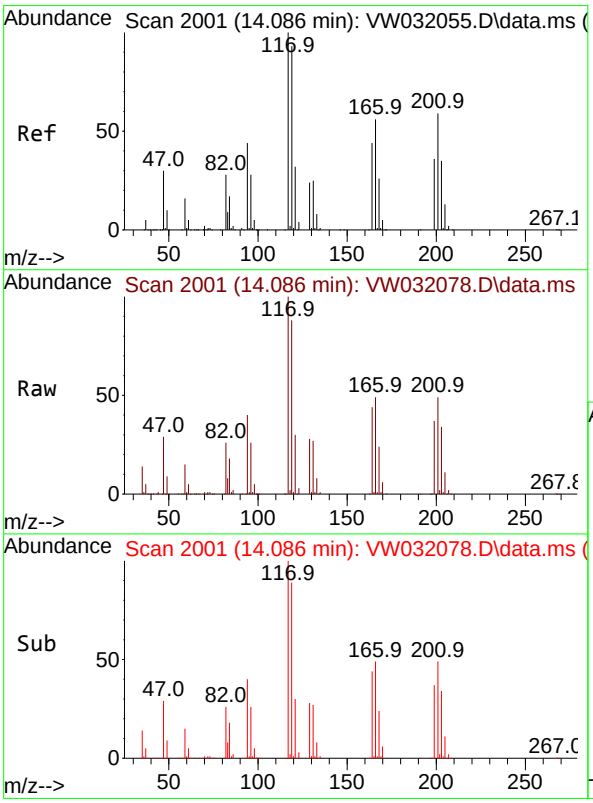
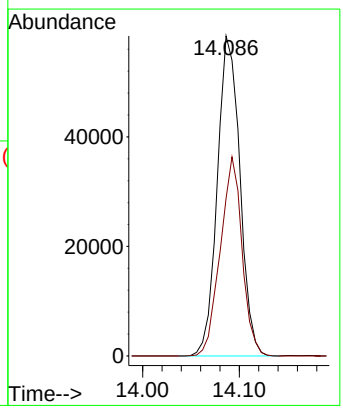
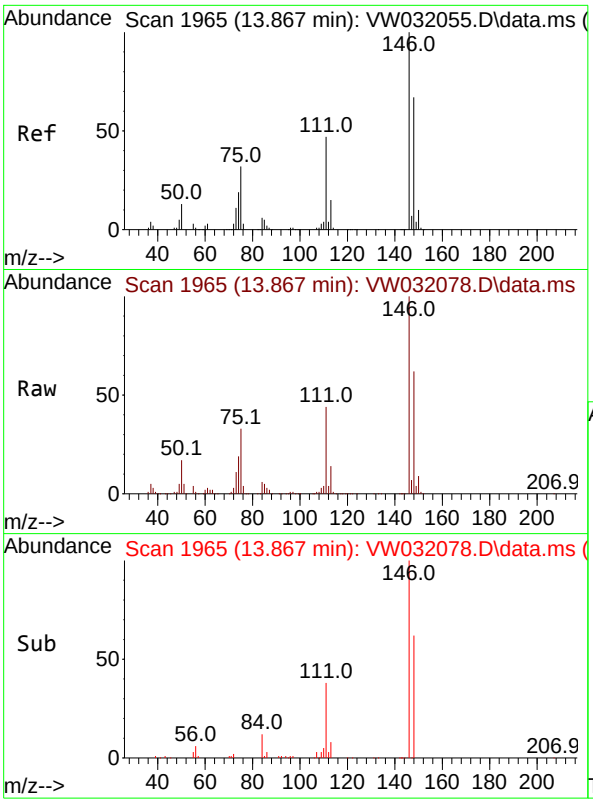


#90
Hexachloroethane
Concen: 45.779 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 94529

Ion	Ratio	Lower	Upper
117	100		
201	60.0	30.9	92.5

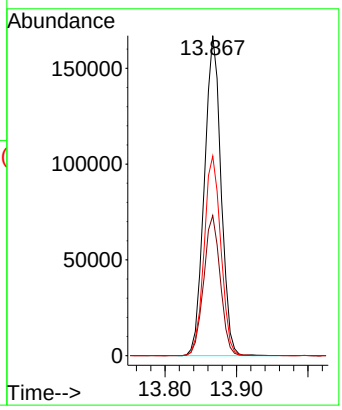




#91
1,2-Dichlorobenzene
Concen: 49.256 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 26960

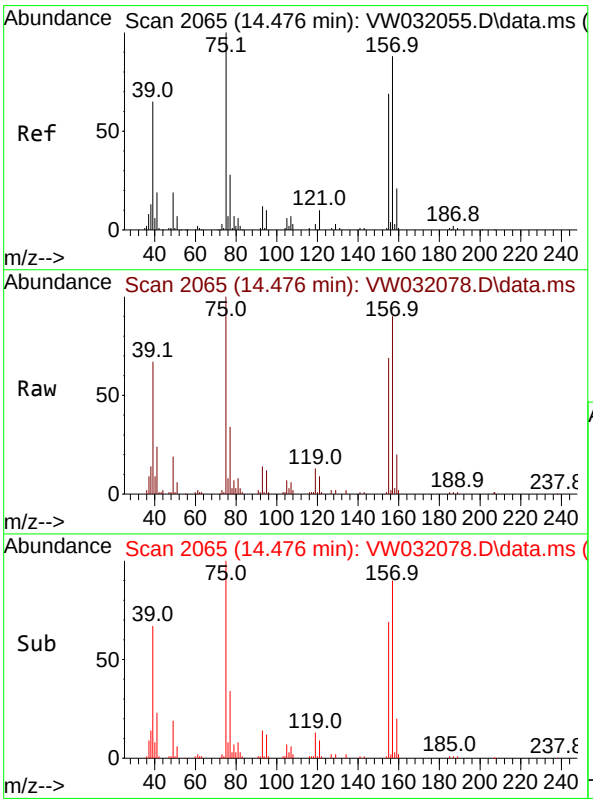
Ion	Ratio	Lower	Upper
146	100		
111	43.6	23.1	69.3
148	62.7	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

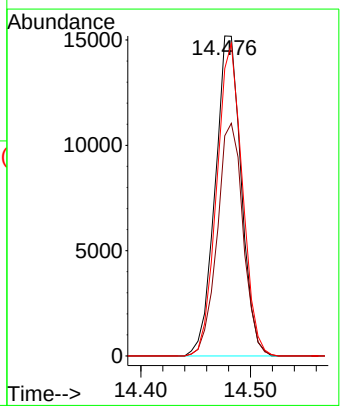
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

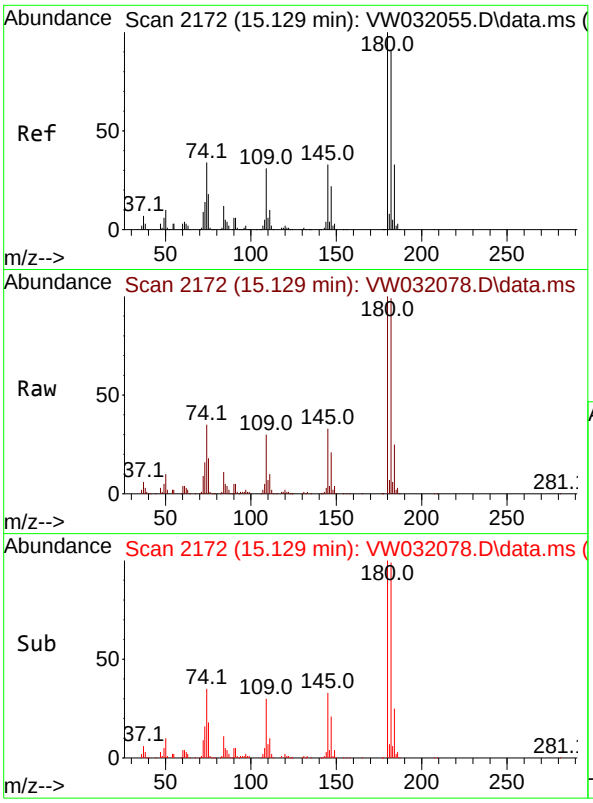


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.732 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 25079

Ion	Ratio	Lower	Upper
75	100		
155	72.5	35.2	105.6
157	95.7	47.5	142.6

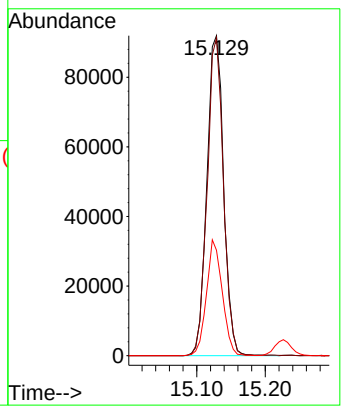




#93
1,2,4-Trichlorobenzene
Concen: 47.562 ug/l
RT: 15.129 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:180 Resp: 15573

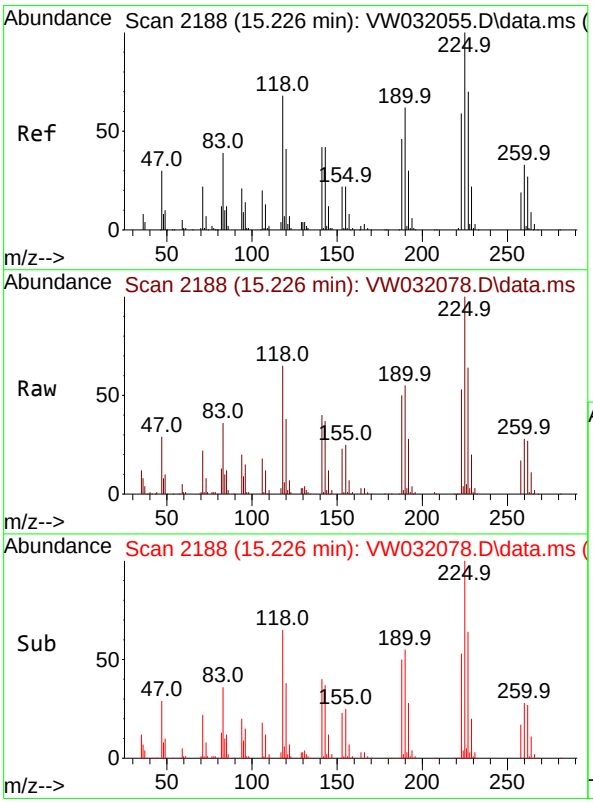
Ion	Ratio	Lower	Upper
180	100		
182	96.6	49.0	147.0
145	34.4	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

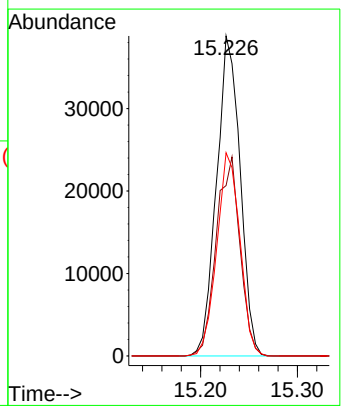
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

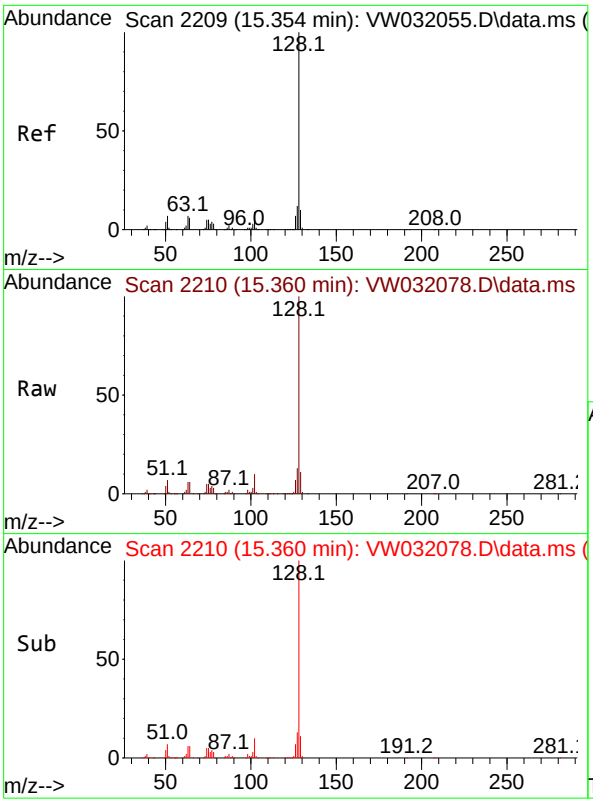


#94
Hexachlorobutadiene
Concen: 44.879 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:225 Resp: 65688

Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.8	95.3
227	62.4	33.5	100.5

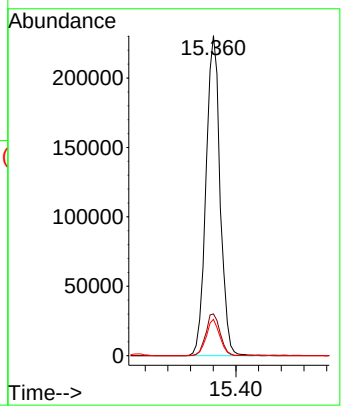




#95
Naphthalene
Concen: 49.535 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:128 Resp: 39742

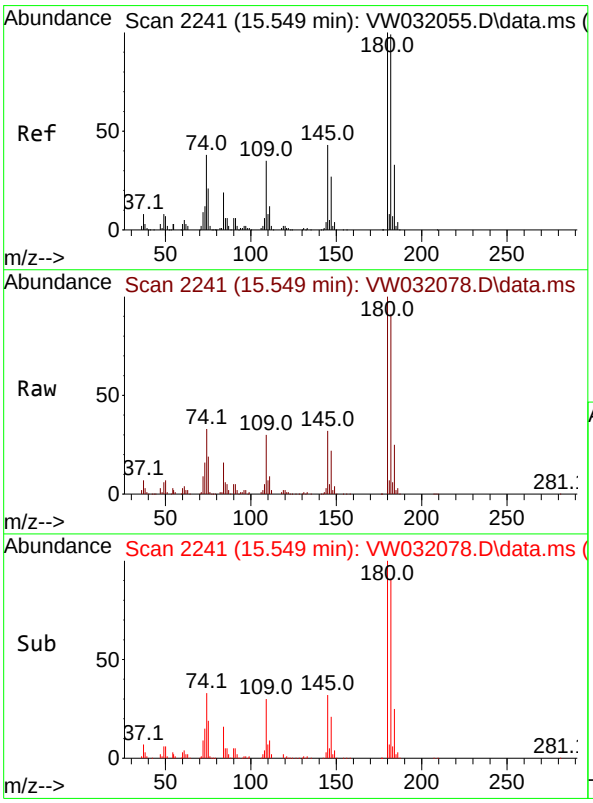
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	11.0	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

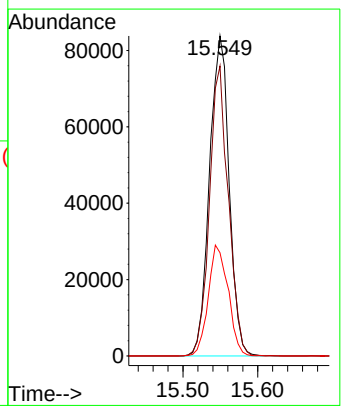
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:180 Resp: 152914

Ion	Ratio	Lower	Upper
180	100		
182	87.3	46.0	138.0
145	35.1	19.2	57.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	0.297	17.0	89	0.00
3	P	Chloromethane	0.482	0.408	15.4	94	0.00
4	C	Vinyl Chloride	0.583	0.499	14.4#	95	0.00
5	T	Bromomethane	0.437	0.376	14.0	92	0.00
6	T	Chloroethane	0.386	0.340	11.9	93	0.00
7	T	Trichlorofluoromethane	0.467	0.408	12.6	88	0.00
8	T	Diethyl Ether	0.382	0.348	8.9	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.551	0.478	13.2	93	0.00
10	T	Methyl Iodide	0.781	0.702	10.1	94	0.00
11	T	Tert butyl alcohol	0.047	0.043	8.5	86	0.00
12	CM	1,1-Dichloroethene	0.606	0.534	11.9#	94	0.00
13	T	Acrolein	0.075	0.058	22.7	83	0.00
14	T	Allyl chloride	0.883	0.785	11.1	92	0.00
15	T	Acrylonitrile	0.182	0.174	4.4	91	0.00
16	T	Acetone	0.167	0.136	18.6	84	0.00
17	T	Carbon Disulfide	1.628	1.406	13.6	91	0.00
18	T	Methyl Acetate	0.530	0.584	-10.2	106	0.00
19	T	Methyl tert-butyl Ether	1.068	1.029	3.7	94	0.00
20	T	Methylene Chloride	0.774	0.639	17.4	94	0.00
21	T	trans-1,2-Dichloroethene	0.644	0.595	7.6	96	0.00
22	T	Diisopropyl ether	1.860	1.784	4.1	95	0.00
23	T	Vinyl Acetate	1.222	1.141	6.6	88	0.00
24	P	1,1-Dichloroethane	1.189	1.078	9.3	94	0.00
25	T	2-Butanone	0.238	0.227	4.6	90	0.00
26	T	2,2-Dichloropropane	0.596	0.505	15.3	88	0.00
27	T	cis-1,2-Dichloroethene	0.752	0.723	3.9	97	0.00
28	T	Bromochloromethane	0.541	0.530	2.0	98	0.00
29	T	Tetrahydrofuran	0.157	0.154	1.9	91	0.00
30	C	Chloroform	1.260	1.191	5.5#	97	0.00
31	T	Cyclohexane	1.031	0.892	13.5	93	0.00
32	T	1,1,1-Trichloroethane	0.915	0.823	10.1	95	0.00
33	S	1,2-Dichloroethane-d4	0.723	0.712	1.5	100	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.323	0.320	0.9	100	0.00
36	T	1,1-Dichloropropene	0.455	0.436	4.2	95	0.00
37	T	Ethyl Acetate	0.268	0.266	0.7	92	0.00
38	T	Carbon Tetrachloride	0.439	0.405	7.7	92	0.00
39	T	Methylcyclohexane	0.555	0.536	3.4	94	0.00
40	TM	Benzene	1.415	1.355	4.2	94	0.00
41	T	Methacrylonitrile	0.152	0.150	1.3	91	0.00
42	TM	1,2-Dichloroethane	0.453	0.436	3.8	95	0.00
43	T	Isopropyl Acetate	0.493	0.485	1.6	92	0.00
44	TM	Trichloroethene	0.337	0.314	6.8	94	0.00
45	C	1,2-Dichloropropane	0.342	0.335	2.0#	97	0.00
46	T	Dibromomethane	0.221	0.216	2.3	96	0.00
47	T	Bromodichloromethane	0.509	0.497	2.4	95	0.00
48	T	Methyl methacrylate	0.238	0.245	-2.9	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	89	0.00
50	S	Toluene-d8	1.195	1.199	-0.3	98	0.00
51	T	4-Methyl-2-Pentanone	0.279	0.281	-0.7	92	0.00
52	CM	Toluene	0.892	0.879	1.5#	96	0.00
53	T	t-1,3-Dichloropropene	0.476	0.456	4.2	90	0.00
54	T	cis-1,3-Dichloropropene	0.541	0.524	3.1	92	0.00
55	T	1,1,2-Trichloroethane	0.293	0.288	1.7	96	0.00
56	T	Ethyl methacrylate	0.392	0.403	-2.8	93	0.00
57	T	1,3-Dichloropropane	0.511	0.494	3.3	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.217	0.230	-6.0	97	0.00
59	T	2-Hexanone	0.193	0.196	-1.6	90	0.00
60	T	Dibromochloromethane	0.335	0.325	3.0	95	0.00
61	T	1,2-Dibromoethane	0.285	0.280	1.8	95	0.00
62	S	4-Bromofluorobenzene	0.440	0.437	0.7	97	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
64	T	Tetrachloroethene	0.289	0.259	10.4	98	0.00
65	PM	Chlorobenzene	1.088	0.977	10.2	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.340	0.314	7.6	98	0.00
67	C	Ethyl Benzene	1.843	1.690	8.3#	95	0.00
68	T	m/p-Xylenes	0.711	0.638	10.3	92	0.00
69	T	o-Xylene	0.657	0.626	4.7	97	0.00
70	T	Styrene	1.168	1.112	4.8	97	0.00
71	P	Bromoform	0.194	0.187	3.6	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.494	3.384	3.1	94	0.00
74	T	N-amyl acetate	1.003	0.961	4.2	88	0.00
75	P	1,1,2,2-Tetrachloroethane	0.830	0.788	5.1	92	0.00
76	T	1,2,3-Trichloropropane	0.679	0.730	-7.5	96	0.00
77	T	Bromobenzene	0.835	0.799	4.3	93	0.00
78	T	n-propylbenzene	4.302	4.157	3.4	94	0.00
79	T	2-Chlorotoluene	2.655	2.580	2.8	96	0.00
80	T	1,3,5-Trimethylbenzene	2.967	2.936	1.0	96	0.00
81	T	trans-1,4-Dichloro-2-butene	0.262	0.241	8.0	85	0.00
82	T	4-Chlorotoluene	2.821	2.678	5.1	94	0.00
83	T	tert-Butylbenzene	2.462	2.384	3.2	94	0.00
84	T	1,2,4-Trimethylbenzene	3.020	2.988	1.1	95	0.00
85	T	sec-Butylbenzene	3.722	3.535	5.0	93	0.00
86	T	p-Isopropyltoluene	3.103	3.023	2.6	93	0.00
87	T	1,3-Dichlorobenzene	1.661	1.530	7.9	89	0.00
88	T	1,4-Dichlorobenzene	1.678	1.525	9.1	93	0.00
89	T	n-Butylbenzene	3.015	2.919	3.2	93	0.00
90	T	Hexachloroethane	0.568	0.520	8.5	93	0.00
91	T	1,2-Dichlorobenzene	1.504	1.482	1.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.147	0.138	6.1	88	0.00
93	T	1,2,4-Trichlorobenzene	0.900	0.856	4.9	95	0.00
94	T	Hexachlorobutadiene	0.402	0.361	10.2	95	0.00
95	T	Naphthalene	2.205	2.185	0.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	0.841	-2.7	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	101	0.00
2	T	Dichlorodifluoromethane	50.000	41.544	16.9	89	0.00
3	P	Chloromethane	50.000	42.300	15.4	94	0.00
4	C	Vinyl Chloride	50.000	42.835	14.3#	95	0.00
5	T	Bromomethane	50.000	43.036	13.9	92	0.00
6	T	Chloroethane	50.000	44.108	11.8	93	0.00
7	T	Trichlorofluoromethane	50.000	43.678	12.6	88	0.00
8	T	Diethyl Ether	50.000	45.468	9.1	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	43.412	13.2	93	0.00
10	T	Methyl Iodide	50.000	44.922	10.2	94	0.00
11	T	Tert butyl alcohol	250.000	229.131	8.3	86	0.00
12	CM	1,1-Dichloroethene	50.000	44.059	11.9#	94	0.00
13	T	Acrolein	250.000	194.795	22.1	83	0.00
14	T	Allyl chloride	50.000	44.462	11.1	92	0.00
15	T	Acrylonitrile	250.000	238.510	4.6	91	0.00
16	T	Acetone	250.000	202.983	18.8	84	0.00
17	T	Carbon Disulfide	50.000	43.178	13.6	91	0.00
18	T	Methyl Acetate	50.000	55.142	-10.3	106	0.00
19	T	Methyl tert-butyl Ether	50.000	48.139	3.7	94	0.00
20	T	Methylene Chloride	50.000	41.285	17.4	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.267	7.5	96	0.00
22	T	Diisopropyl ether	50.000	47.935	4.1	95	0.00
23	T	Vinyl Acetate	250.000	233.574	6.6	88	0.00
24	P	1,1-Dichloroethane	50.000	45.363	9.3	94	0.00
25	T	2-Butanone	250.000	238.766	4.5	90	0.00
26	T	2,2-Dichloropropane	50.000	42.306	15.4	88	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.061	3.9	97	0.00
28	T	Bromochloromethane	50.000	48.947	2.1	98	0.00
29	T	Tetrahydrofuran	250.000	245.333	1.9	91	0.00
30	C	Chloroform	50.000	47.266	5.5#	97	0.00
31	T	Cyclohexane	50.000	43.259	13.5	93	0.00
32	T	1,1,1-Trichloroethane	50.000	44.949	10.1	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.202	1.6	100	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	49.565	0.9	100	0.00
36	T	1,1-Dichloropropene	50.000	47.825	4.3	95	0.00
37	T	Ethyl Acetate	50.000	49.608	0.8	92	0.00
38	T	Carbon Tetrachloride	50.000	46.065	7.9	92	0.00
39	T	Methylcyclohexane	50.000	48.261	3.5	94	0.00
40	TM	Benzene	50.000	47.879	4.2	94	0.00
41	T	Methacrylonitrile	50.000	49.286	1.4	91	0.00
42	TM	1,2-Dichloroethane	50.000	48.163	3.7	95	0.00
43	T	Isopropyl Acetate	50.000	49.147	1.7	92	0.00
44	TM	Trichloroethene	50.000	46.608	6.8	94	0.00
45	C	1,2-Dichloropropane	50.000	49.043	1.9#	97	0.00
46	T	Dibromomethane	50.000	48.945	2.1	96	0.00
47	T	Bromodichloromethane	50.000	48.852	2.3	95	0.00
48	T	Methyl methacrylate	50.000	51.471	-2.9	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	1001.497	-0.1	89	0.00
50	S	Toluene-d8	50.000	50.187	-0.4	98	0.00
51	T	4-Methyl-2-Pentanone	250.000	252.344	-0.9	92	0.00
52	CM	Toluene	50.000	49.271	1.5#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	47.848	4.3	90	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.425	3.2	92	0.00
55	T	1,1,2-Trichloroethane	50.000	49.042	1.9	96	0.00
56	T	Ethyl methacrylate	50.000	51.306	-2.6	93	0.00
57	T	1,3-Dichloropropane	50.000	48.292	3.4	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	265.209	-6.1	97	0.00
59	T	2-Hexanone	250.000	253.545	-1.4	90	0.00
60	T	Dibromochloromethane	50.000	48.560	2.9	95	0.00
61	T	1,2-Dibromoethane	50.000	49.186	1.6	95	0.00
62	S	4-Bromofluorobenzene	50.000	49.666	0.7	97	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	106	0.00
64	T	Tetrachloroethene	50.000	44.767	10.5	98	0.00
65	PM	Chlorobenzene	50.000	44.896	10.2	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.243	7.5	98	0.00
67	C	Ethyl Benzene	50.000	45.839	8.3#	95	0.00
68	T	m/p-Xylenes	100.000	89.674	10.3	92	0.00
69	T	o-Xylene	50.000	47.586	4.8	97	0.00
70	T	Styrene	50.000	47.626	4.7	97	0.00
71	P	Bromoform	50.000	48.185	3.6	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	48.421	3.2	94	0.00
74	T	N-amyl acetate	50.000	47.933	4.1	88	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.484	5.0	92	0.00
76	T	1,2,3-Trichloropropane	50.000	53.760	-7.5	96	0.00
77	T	Bromobenzene	50.000	47.865	4.3	93	0.00
78	T	n-propylbenzene	50.000	48.311	3.4	94	0.00
79	T	2-Chlorotoluene	50.000	48.578	2.8	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.484	1.0	96	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.037	7.9	85	0.00
82	T	4-Chlorotoluene	50.000	47.464	5.1	94	0.00
83	T	tert-Butylbenzene	50.000	48.424	3.2	94	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.477	1.0	95	0.00
85	T	sec-Butylbenzene	50.000	47.482	5.0	93	0.00
86	T	p-Isopropyltoluene	50.000	48.708	2.6	93	0.00
87	T	1,3-Dichlorobenzene	50.000	46.057	7.9	89	0.00
88	T	1,4-Dichlorobenzene	50.000	45.431	9.1	93	0.00
89	T	n-Butylbenzene	50.000	48.414	3.2	93	0.00
90	T	Hexachloroethane	50.000	45.779	8.4	93	0.00
91	T	1,2-Dichlorobenzene	50.000	49.256	1.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.732	6.5	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.562	4.9	95	0.00
94	T	Hexachlorobutadiene	50.000	44.879	10.2	95	0.00
95	T	Naphthalene	50.000	49.535	0.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	51.327	-2.7	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2819
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/13/2025 09:37
Lab File ID: VY023059.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	0.335		-17.89	20
Chloromethane	0.661	0.620	0.1	-6.2	20
Vinyl Chloride	0.817	0.788		-3.55	20
Bromomethane	0.610	0.575		-5.74	20
Chloroethane	0.543	0.535		-1.47	20
Trichlorofluoromethane	0.994	0.944		-5.03	20
1,1,2-Trichlorotrifluoroethane	0.490	0.465		-5.1	20
1,1-Dichloroethene	0.482	0.459		-4.77	20
Acetone	0.103	0.105		1.94	20
Carbon Disulfide	1.571	1.497		-4.71	20
Methyl tert-butyl Ether	1.249	1.158		-7.29	20
Methyl Acetate	0.307	0.256		-16.61	20
Methylene Chloride	0.620	0.519		-16.29	20
trans-1,2-Dichloroethene	0.541	0.526		-2.77	20
1,1-Dichloroethane	0.942	0.913	0.1	-3.08	20
Cyclohexane	0.888	0.821		-7.55	20
2-Butanone	0.140	0.129		-7.86	20
Carbon Tetrachloride	0.483	0.472		-2.28	20
cis-1,2-Dichloroethene	0.626	0.597		-4.63	20
Bromochloromethane	0.374	0.368		-1.6	20
Chloroform	0.971	0.932		-4.02	20
1,1,1-Trichloroethane	0.862	0.841		-2.44	20
Methylcyclohexane	0.586	0.575		-1.88	20
Benzene	1.370	1.334		-2.63	20
1,2-Dichloroethane	0.356	0.340		-4.49	20
Trichloroethene	0.354	0.344		-2.83	20
1,2-Dichloropropane	0.315	0.306		-2.86	20
Bromodichloromethane	0.466	0.450		-3.43	20
4-Methyl-2-Pentanone	0.195	0.181		-7.18	20
Toluene	0.870	0.864		-0.69	20
t-1,3-Dichloropropene	0.422	0.410		-2.84	20
cis-1,3-Dichloropropene	0.499	0.485		-2.81	20
1,1,2-Trichloroethane	0.242	0.224		-7.44	20
2-Hexanone	0.133	0.129		-3.01	20
Dibromochloromethane	0.320	0.300		-6.25	20
1,2-Dibromoethane	0.228	0.213		-6.58	20
Tetrachloroethene	0.446	0.447		0.22	20
Chlorobenzene	1.079	1.043	0.3	-3.34	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
Instrument ID:	MSVOA_Y	Calibration Date/Time:	08/13/2025 09:37
Lab File ID:	VY023059.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	1.856		0	20
m/p-Xylenes	0.725	0.725		0	20
o-Xylene	0.679	0.681		0.29	20
Styrene	1.110	1.123		1.17	20
Bromoform	0.214	0.195	0.1	-8.88	20
Isopropylbenzene	3.529	3.623		2.66	20
1,1,2,2-Tetrachloroethane	0.603	0.553	0.3	-8.29	20
1,3-Dichlorobenzene	1.660	1.656		-0.24	20
1,4-Dichlorobenzene	1.647	1.613		-2.06	20
1,2-Dichlorobenzene	1.456	1.412		-3.02	20
1,2-Dibromo-3-Chloropropane	0.094	0.089		-5.32	20
1,2,4-Trichlorobenzene	0.861	0.831		-3.48	20
1,2,3-Trichlorobenzene	0.742	0.698		-5.93	20
1,2-Dichloroethane-d4	0.477	0.476		-0.21	20
Dibromofluoromethane	0.299	0.301		0.67	20
Toluene-d8	1.169	1.200		2.65	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\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 01:19:16 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 :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.701	168	535817	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	845865	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.414	117	741859	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	361154	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.055	65	254983	49.931 ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.860%		
35) Dibromofluoromethane	7.628	113	254219	50.227 ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.460%		
50) Toluene-d8	10.103	98	1014903	51.328 ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.660%		
62) 4-Bromofluorobenzene	12.401	95	318073	50.020 ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.040%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.861	85	179347	41.006 ug/l	97
3) Chloromethane	2.068	50	331973	46.863 ug/l	99
4) Vinyl Chloride	2.202	62	422026	48.195 ug/l	99
5) Bromomethane	2.592	94	308334	47.148 ug/l	97
6) Chloroethane	2.732	64	286888	49.279 ug/l	100
7) Trichlorofluoromethane	3.049	101	505891	47.512 ug/l	98
8) Diethyl Ether	3.452	74	128306	45.547 ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	249222	47.444 ug/l	99
10) Methyl Iodide	3.994	142	285188	50.312 ug/l	99
11) Tert butyl alcohol	4.860	59	73451	209.916 ug/l	100
12) 1,1-Dichloroethene	3.781	96	245840	47.613 ug/l	99
13) Acrolein	3.647	56	106236	207.313 ug/l	98
14) Allyl chloride	4.378	41	367684	48.395 ug/l	99
15) Acrylonitrile	5.049	53	258896	226.059 ug/l	99
16) Acetone	3.866	43	280197	253.265 ug/l	97
17) Carbon Disulfide	4.098	76	802293	47.654 ug/l	100
18) Methyl Acetate	4.378	43	137365	41.723 ug/l	100
19) Methyl tert-butyl Ether	5.110	73	620651	46.387 ug/l	99
20) Methylene Chloride	4.610	84	277983	48.260 ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	281759	48.558 ug/l	99
22) Diisopropyl ether	6.018	45	804095	48.705 ug/l	98
23) Vinyl Acetate	5.951	43	2205285	241.571 ug/l	99
24) 1,1-Dichloroethane	5.909	63	489342	48.480 ug/l	99
25) 2-Butanone	6.890	43	345112	229.361 ug/l	99
26) 2,2-Dichloropropane	6.878	77	435291	49.978 ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	319779	47.671 ug/l	98
28) Bromochloromethane	7.238	49	197112	49.222 ug/l	98
29) Tetrahydrofuran	7.256	42	209787	224.929 ug/l	99
30) Chloroform	7.414	83	499613	47.994 ug/l	98
31) Cyclohexane	7.695	56	440040	46.262 ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	450437	48.765 ug/l	99
36) 1,1-Dichloropropene	7.829	75	365059	48.533 ug/l	99
37) Ethyl Acetate	6.976	43	143345	45.366 ug/l	98
38) Carbon Tetrachloride	7.817	117	399023	48.841 ug/l	97
39) Methylcyclohexane	9.103	83	486544	49.119 ug/l	98
40) Benzene	8.079	78	1128264	48.666 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 01:19:16 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 :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.219	41	82958	45.492 ug/l	97
42) 1,2-Dichloroethane	8.152	62	287233	47.637 ug/l	99
43) Isopropyl Acetate	8.195	43	294919	46.179 ug/l #	85
44) Trichloroethene	8.859	130	290876	48.551 ug/l	98
45) 1,2-Dichloropropane	9.140	63	259199	48.591 ug/l	98
46) Dibromomethane	9.225	93	147784	48.268 ug/l	96
47) Bromodichloromethane	9.420	83	380333	48.276 ug/l	99
48) Methyl methacrylate	9.219	41	139803	45.747 ug/l	97
49) 1,4-Dioxane	9.225	88	32506	905.464 ug/l	94
51) 4-Methyl-2-Pentanone	9.993	43	766289	232.613 ug/l	100
52) Toluene	10.170	92	730616	49.619 ug/l	100
53) t-1,3-Dichloropropene	10.390	75	346881	48.623 ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	410557	48.667 ug/l	98
55) 1,1,2-Trichloroethane	10.566	97	189812	46.330 ug/l	95
56) Ethyl methacrylate	10.438	69	252654	48.194 ug/l	99
57) 1,3-Dichloropropane	10.713	76	328997	47.351 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	609788	246.593 ug/l	99
59) 2-Hexanone	10.755	43	545617	243.235 ug/l	98
60) Dibromochloromethane	10.908	129	253556	46.904 ug/l	99
61) 1,2-Dibromoethane	11.011	107	180061	46.761 ug/l	99
64) Tetrachloroethene	10.646	164	331676	50.070 ug/l	97
65) Chlorobenzene	11.438	112	773624	48.346 ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.511	131	261298	48.113 ug/l	99
67) Ethyl Benzene	11.517	91	1376524	49.987 ug/l	99
68) m/p-Xylenes	11.627	106	1075458	99.994 ug/l	99
69) o-Xylene	11.950	106	505296	50.162 ug/l	99
70) Styrene	11.969	104	833474	50.595 ug/l	100
71) Bromoform	12.127	173	144602	45.557 ug/l	100
73) Isopropylbenzene	12.249	105	1308324	51.327 ug/l	100
74) N-amyl acetate	12.066	43	269858	49.922 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	199792	45.905 ug/l	100
76) 1,2,3-Trichloropropane	12.554	75	169584m	48.654 ug/l	
77) Bromobenzene	12.529	156	296723	48.794 ug/l	98
78) n-propylbenzene	12.590	91	1579912	52.061 ug/l	100
79) 2-Chlorotoluene	12.676	91	881616	50.703 ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	1062229	51.563 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	69624	48.354 ug/l	98
82) 4-Chlorotoluene	12.773	91	913772	50.659 ug/l	100
83) tert-Butylbenzene	12.993	119	950248	51.072 ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	1060687	51.723 ug/l	100
85) sec-Butylbenzene	13.170	105	1414361	51.748 ug/l	100
86) p-Isopropyltoluene	13.285	119	1182656	52.130 ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	598001	49.866 ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	582375	48.956 ug/l	100
89) n-Butylbenzene	13.615	91	1098867	52.737 ug/l	99
90) Hexachloroethane	13.877	117	234252	50.439 ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	509973	48.490 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32155	47.451 ug/l	95
93) 1,2,4-Trichlorobenzene	14.913	180	300082	48.250 ug/l	99
94) Hexachlorobutadiene	15.017	225	175599	48.048 ug/l	99
95) Naphthalene	15.139	128	502833	47.413 ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	252008	47.023 ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 01:19:16 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 :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

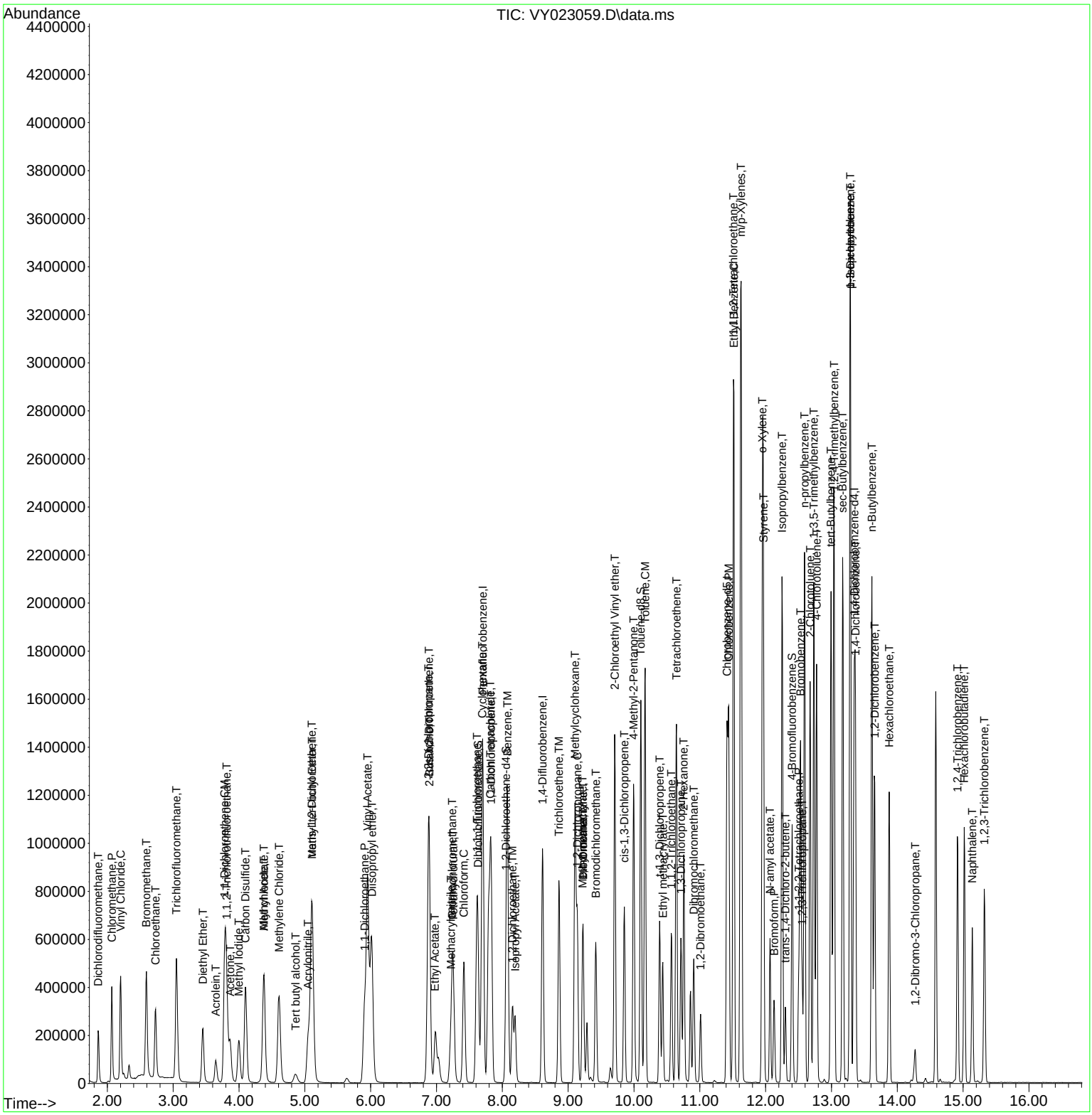
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

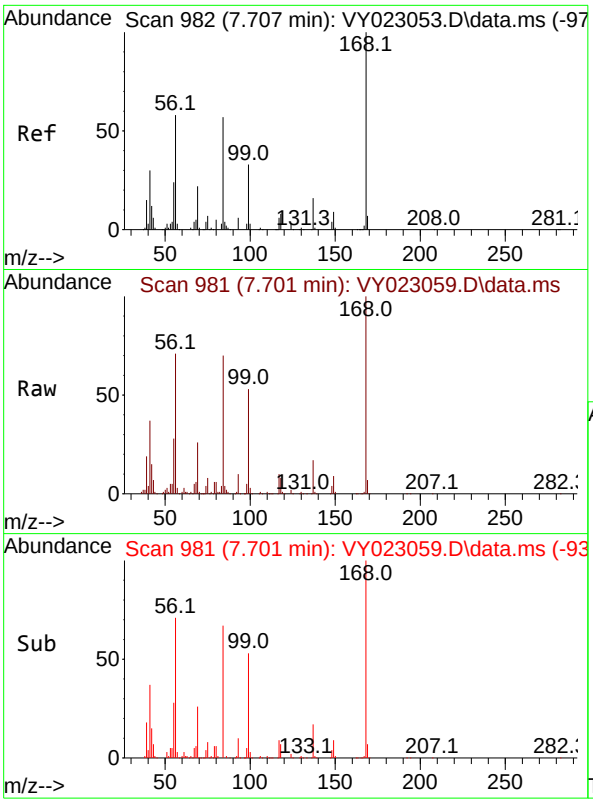
Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

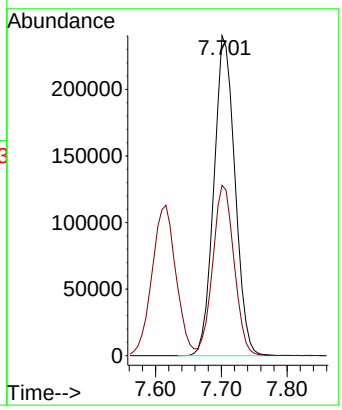




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:168 Resp: 53581

Ion	Ratio	Lower	Upper
168	100		
99	53.2	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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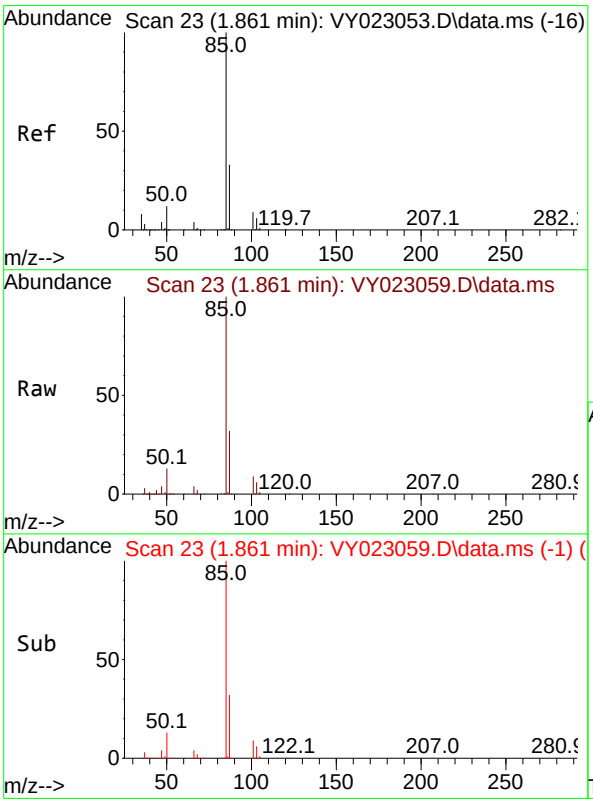
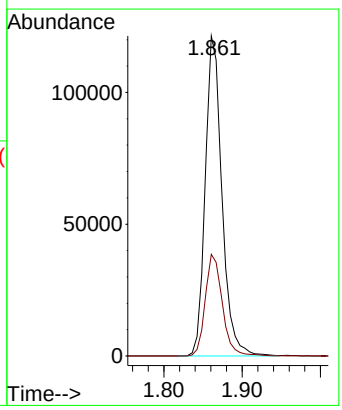
Supervised By :Semsettin Yesilyurt 08/19/2025

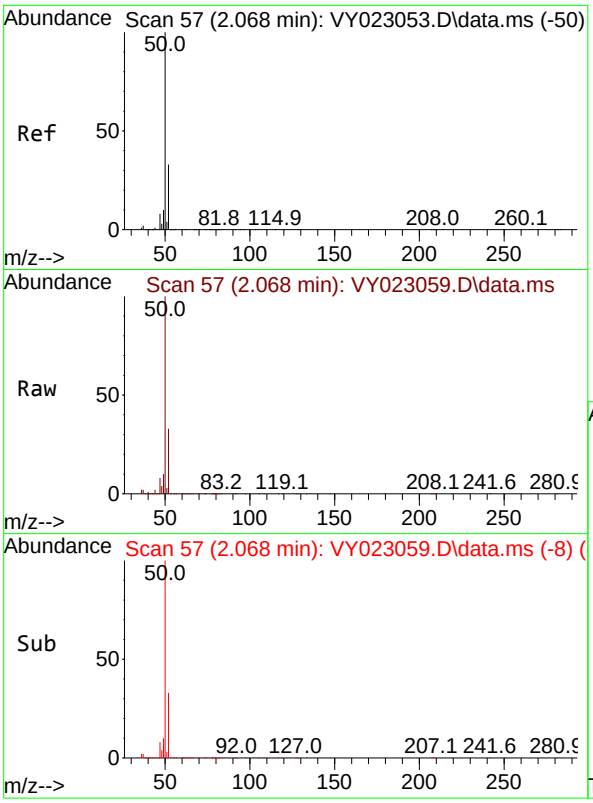


#2
Dichlorodifluoromethane
Concen: 41.006 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 85 Resp: 179347

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.6	49.8

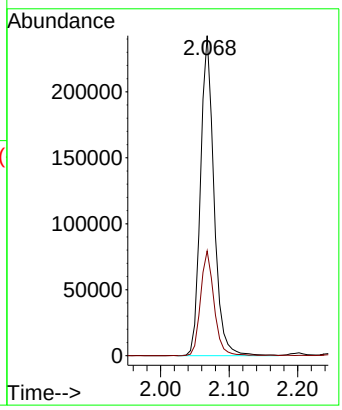




#3
Chloromethane
Concen: 46.863 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 50 Resp: 33197

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.7	40.1



Instrument :
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ClientSampleId :
VSTDCCC050

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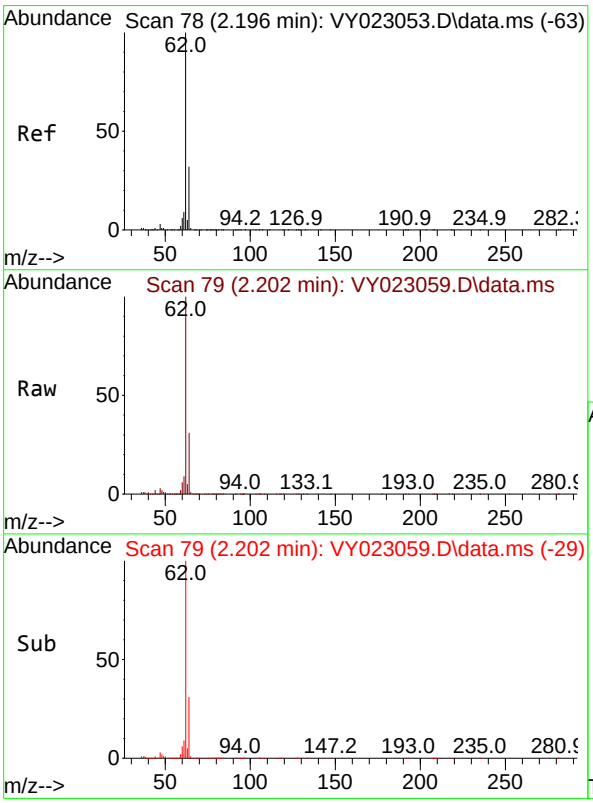
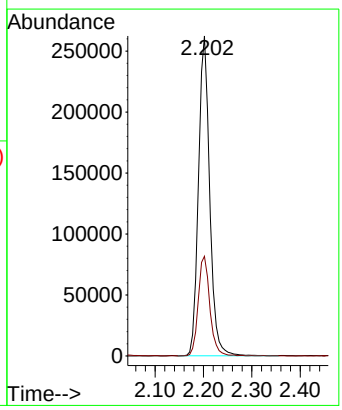
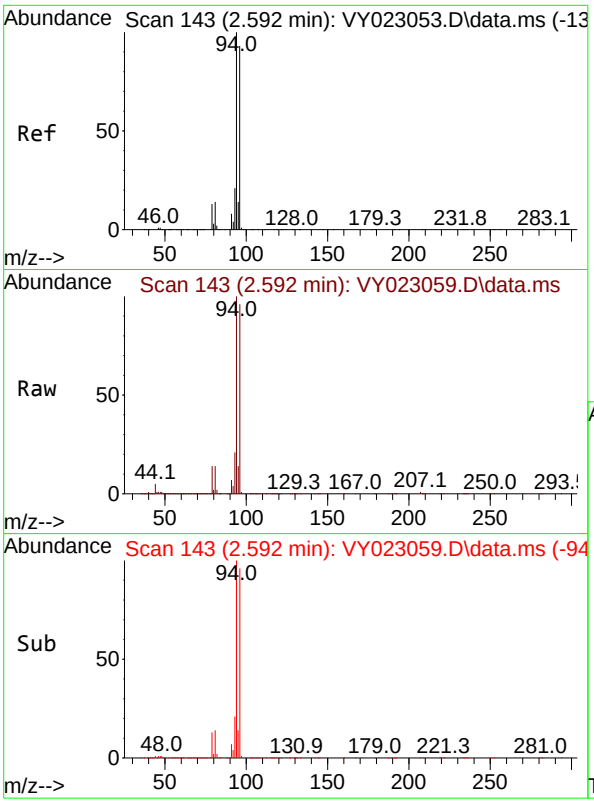


#4
Vinyl Chloride
Concen: 48.195 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 422026

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.4	38.0





#5
Bromomethane
Concen: 47.148 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 94 Resp: 30833

Ion	Ratio	Lower	Upper
94	100		
96	95.8	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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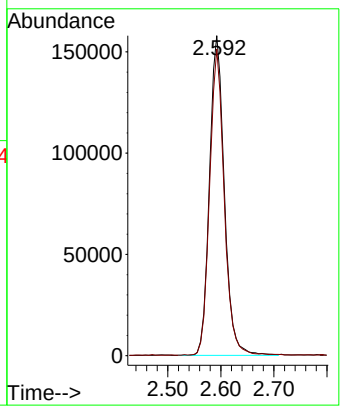
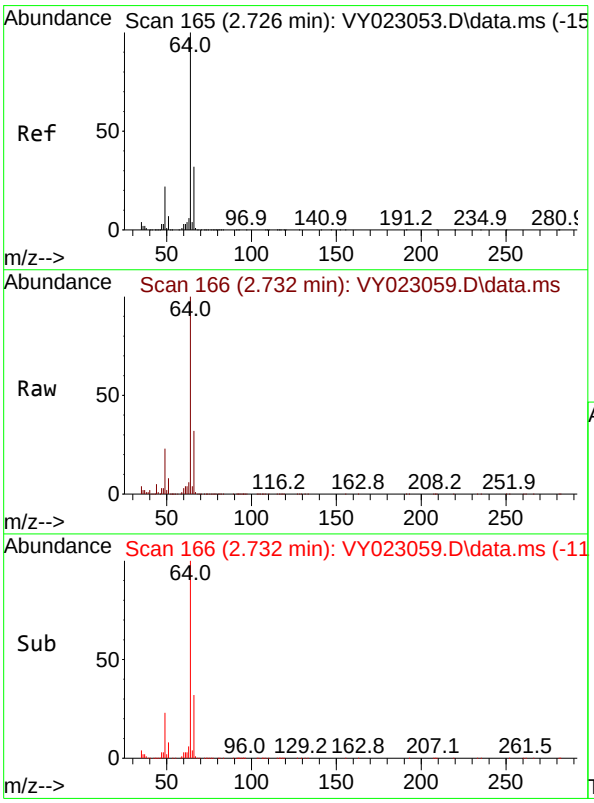
Supervised By :Semsettin Yesilyurt 08/19/2025

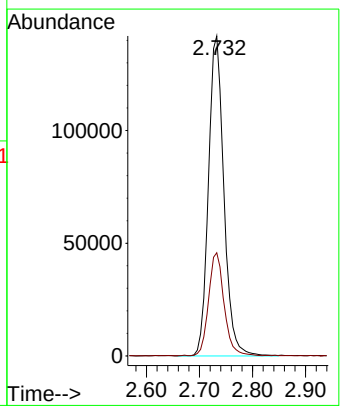


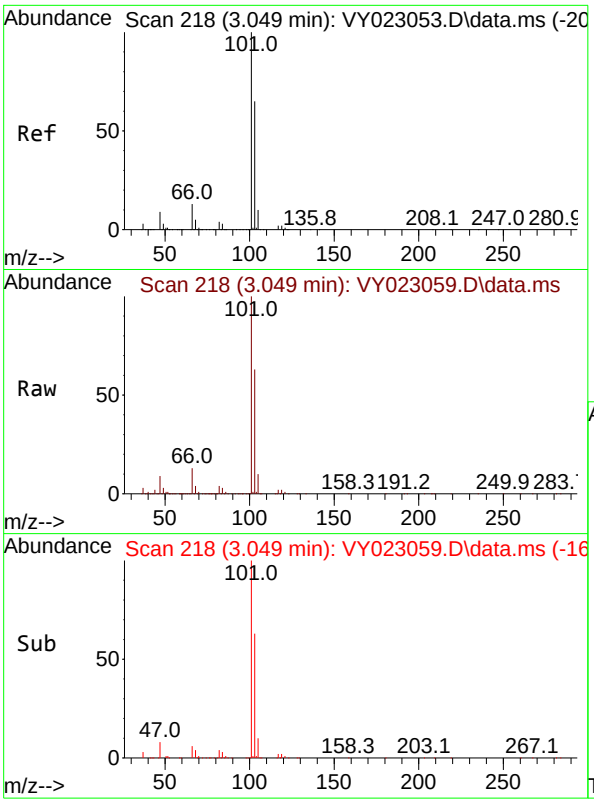


#6
Chloroethane
Concen: 49.279 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 64 Resp: 286888

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.8	38.6





#7
Trichlorofluoromethane
Concen: 47.512 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:101 Resp: 50589

Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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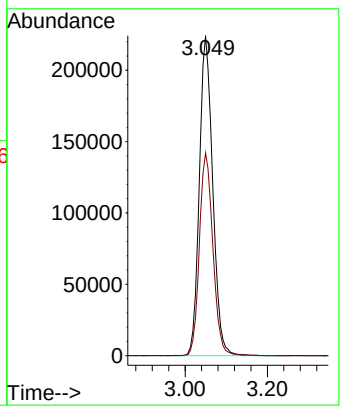
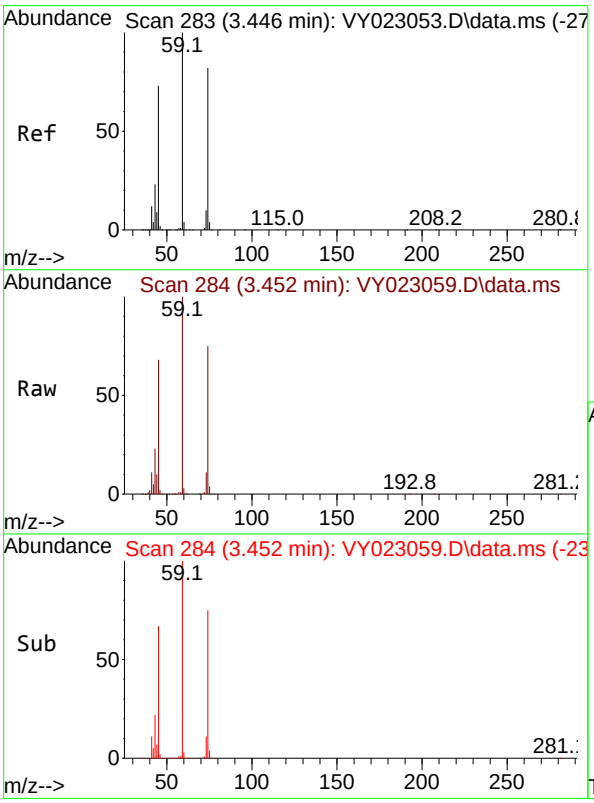
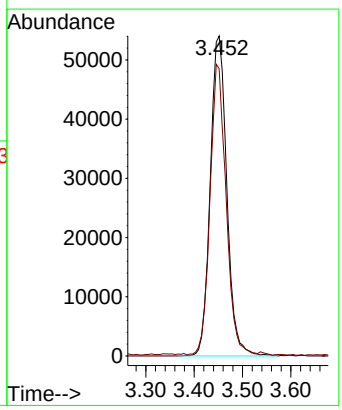


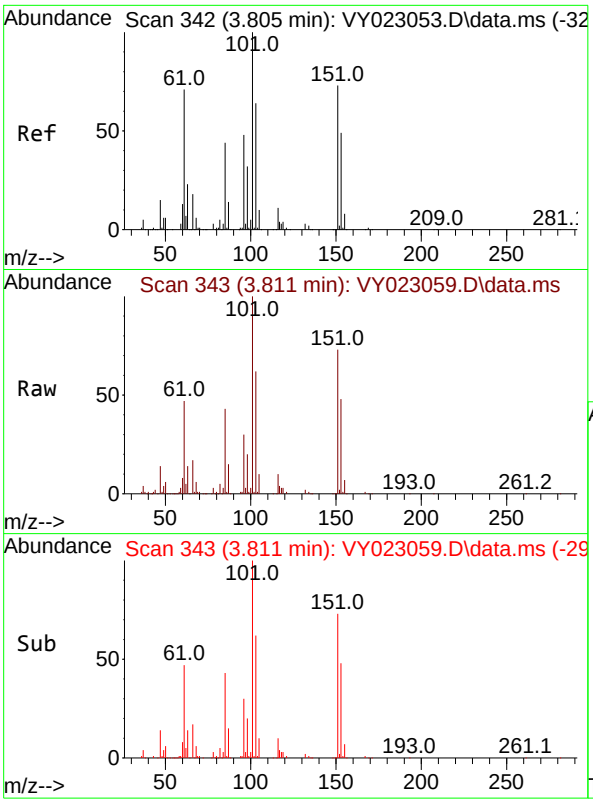


#8
Diethyl Ether
Concen: 45.547 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 74 Resp: 128306

Ion	Ratio	Lower	Upper
74	100		
45	88.1	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.444 ug/l
RT: 3.811 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:101 Resp: 24922

Ion	Ratio	Lower	Upper
101	100		
85	45.9	36.3	54.5
151	77.3	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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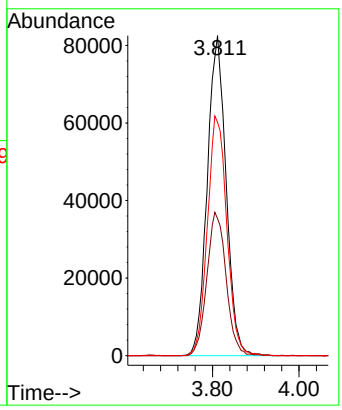
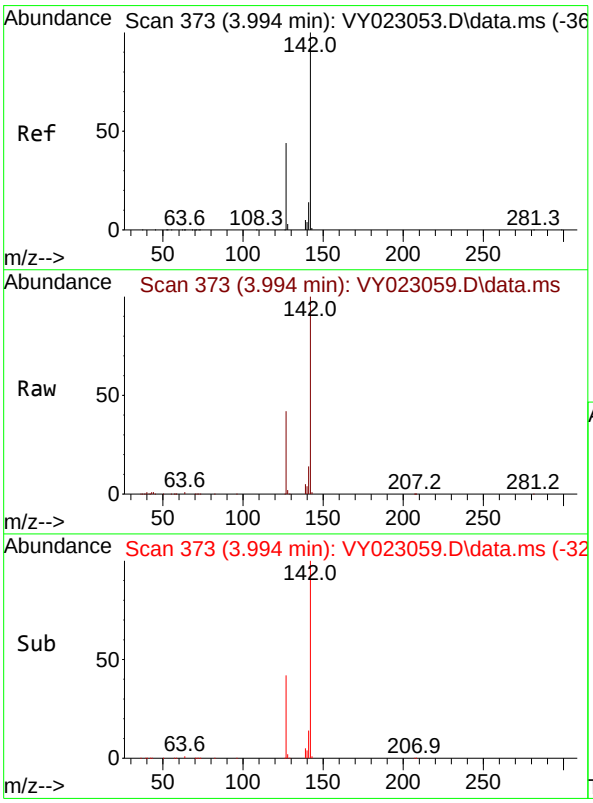
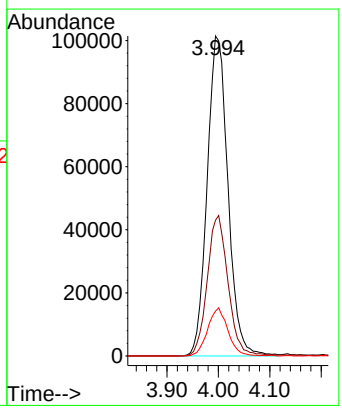


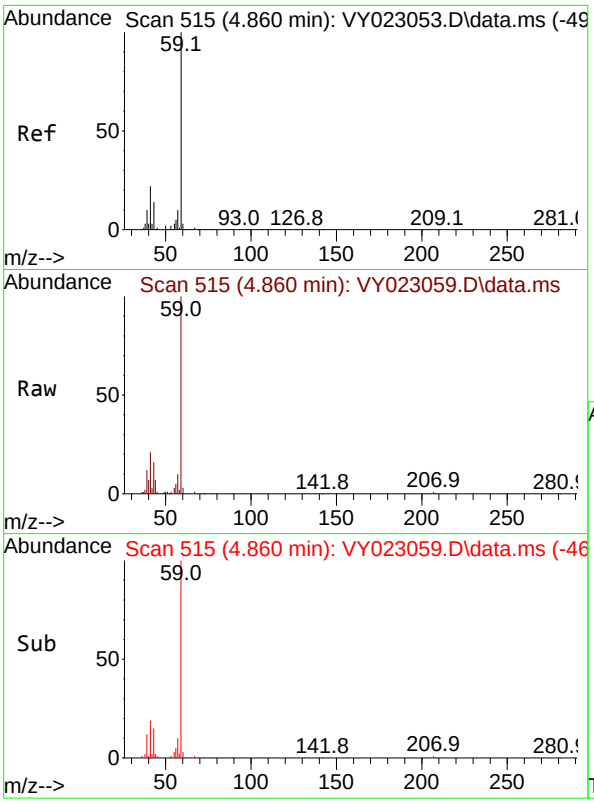


#10
Methyl Iodide
Concen: 50.312 ug/l
RT: 3.994 min Scan# 373
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:142 Resp: 285188

Ion	Ratio	Lower	Upper
142	100		
127	43.9	34.9	52.3
141	14.7	11.3	16.9





#11
Tert butyl alcohol
Concen: 209.916 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 59 Resp: 7345

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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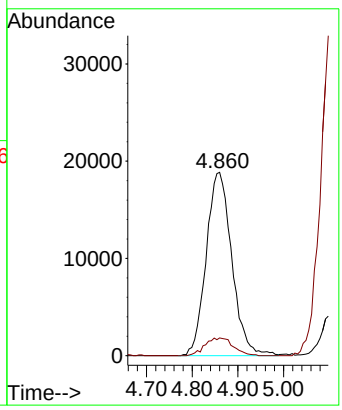
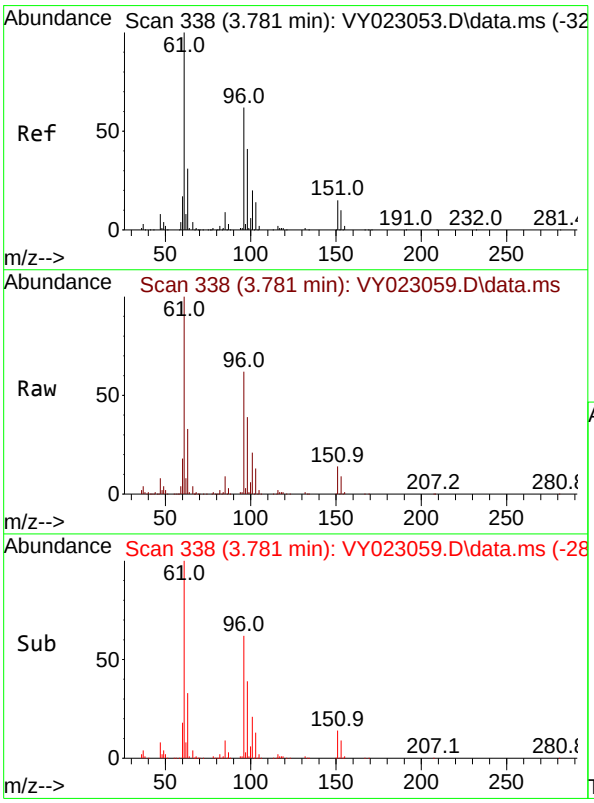
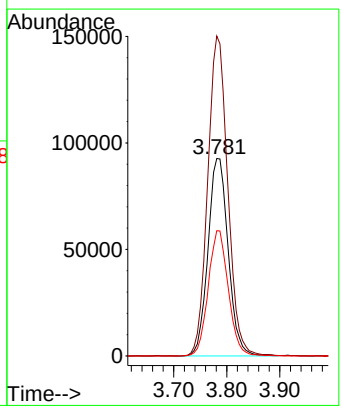


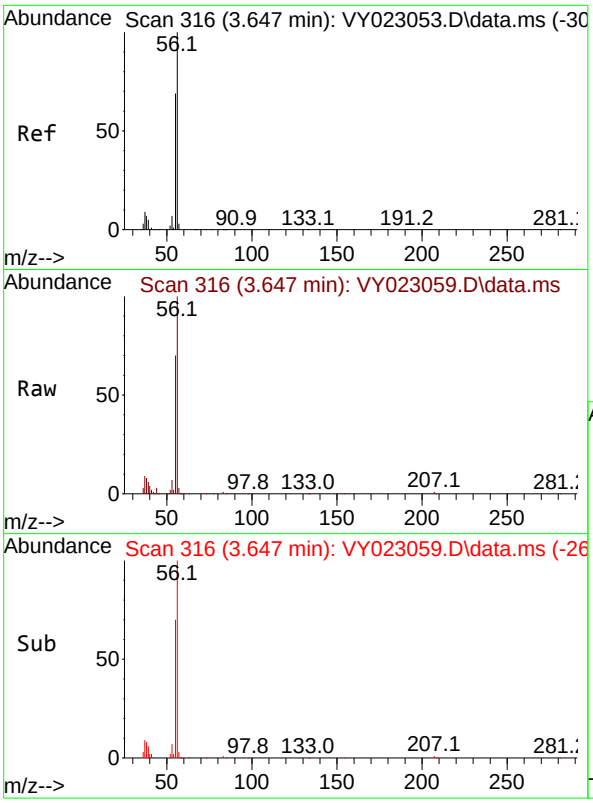


#12
1,1-Dichloroethene
Concen: 47.613 ug/l
RT: 3.781 min Scan# 338
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 245840

Ion	Ratio	Lower	Upper
96	100		
61	162.1	129.4	194.2
98	63.4	52.8	79.2

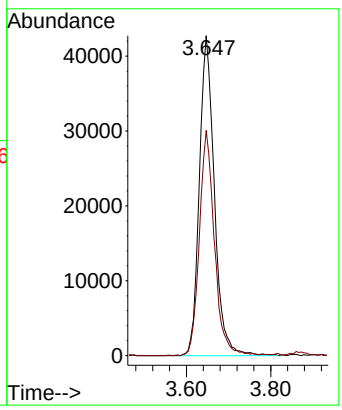




#13
Acrolein
Concen: 207.313 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 56 Resp: 10623

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
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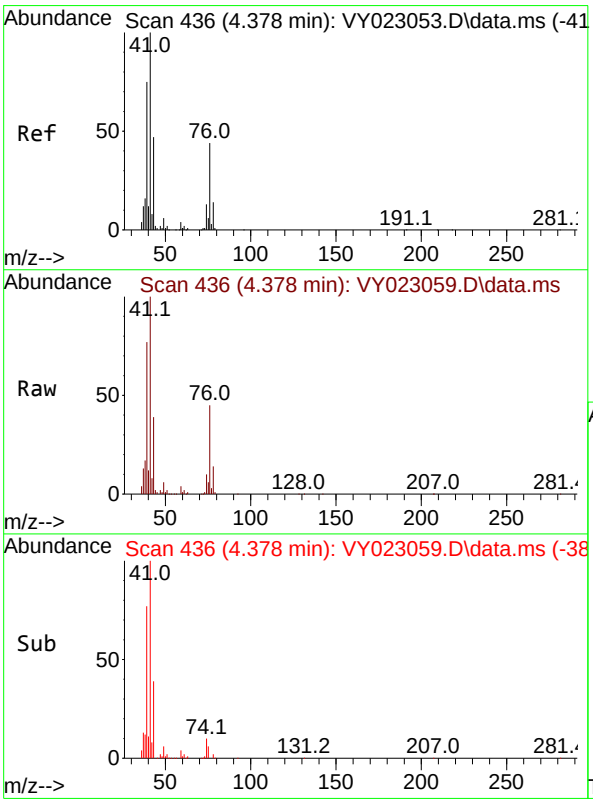
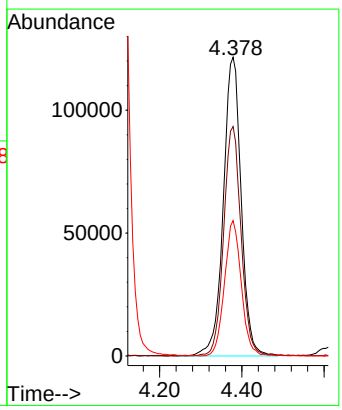
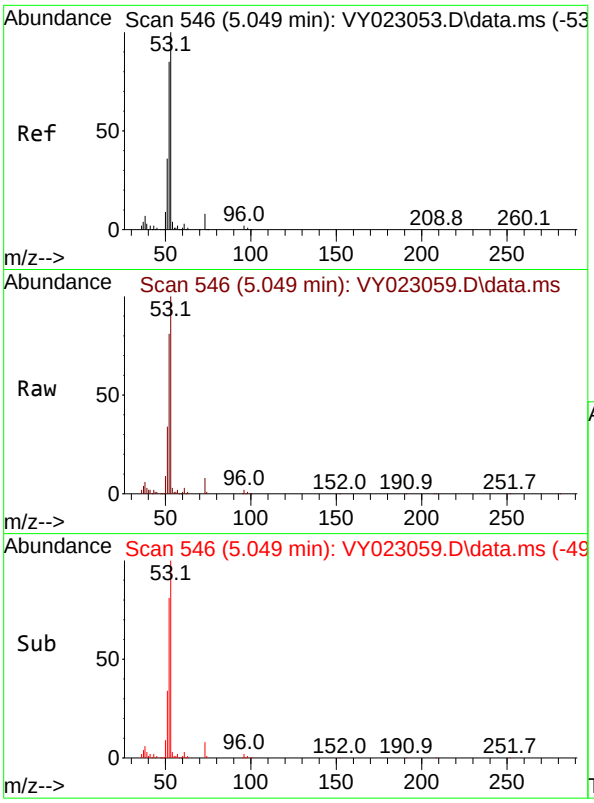


#14
Allyl chloride
Concen: 48.395 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 367684

Ion	Ratio	Lower	Upper
41	100		
39	75.0	59.8	89.6
76	42.6	33.7	50.5

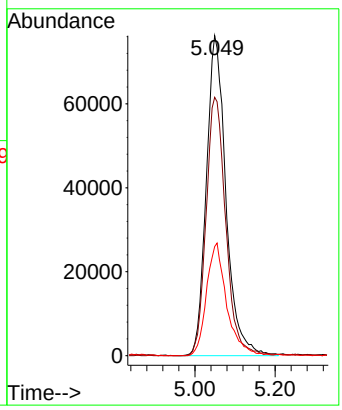




#15
Acrylonitrile
Concen: 226.059 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 53 Resp: 25889

Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.3	97.9
51	36.3	29.5	44.3



Instrument :
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ClientSampleId :
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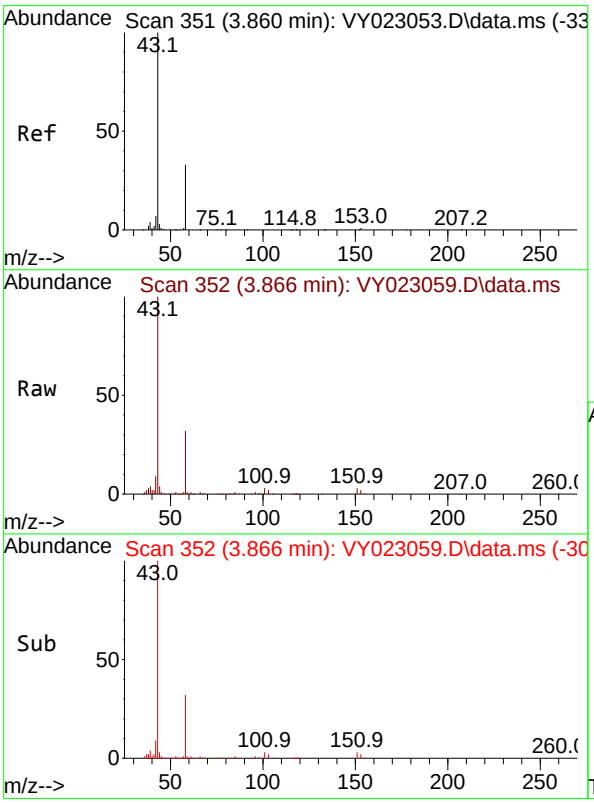
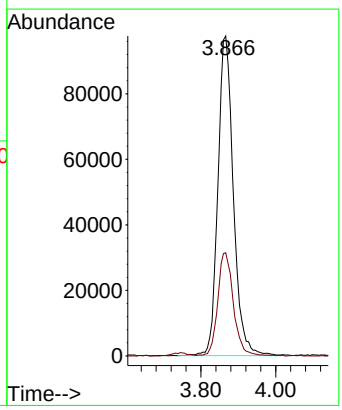
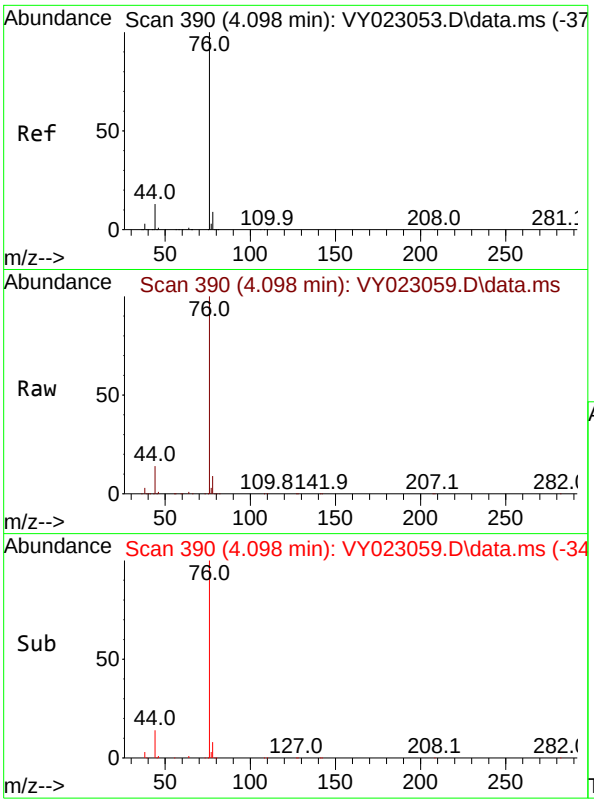


#16
Acetone
Concen: 253.265 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 280197

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7

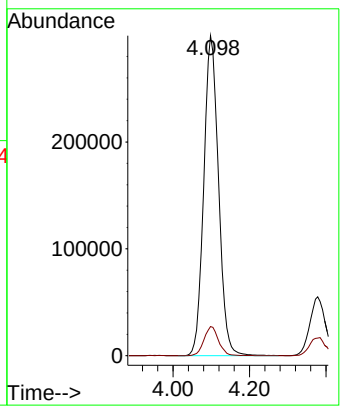




#17
Carbon Disulfide
Concen: 47.654 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 76 Resp: 80229

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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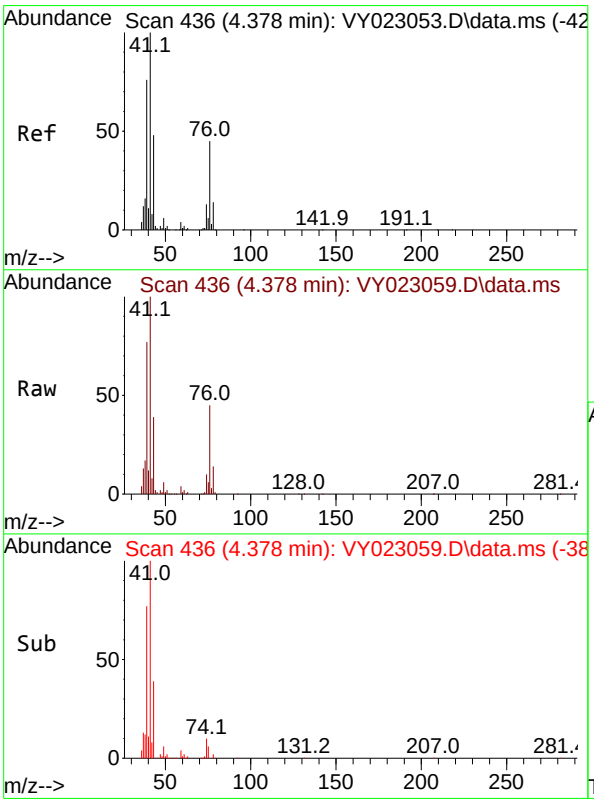
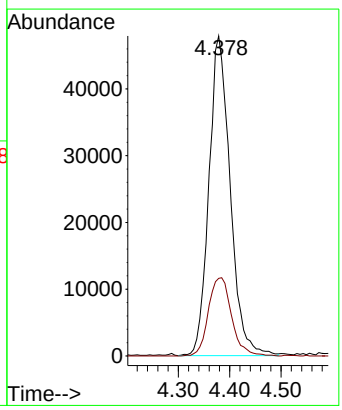
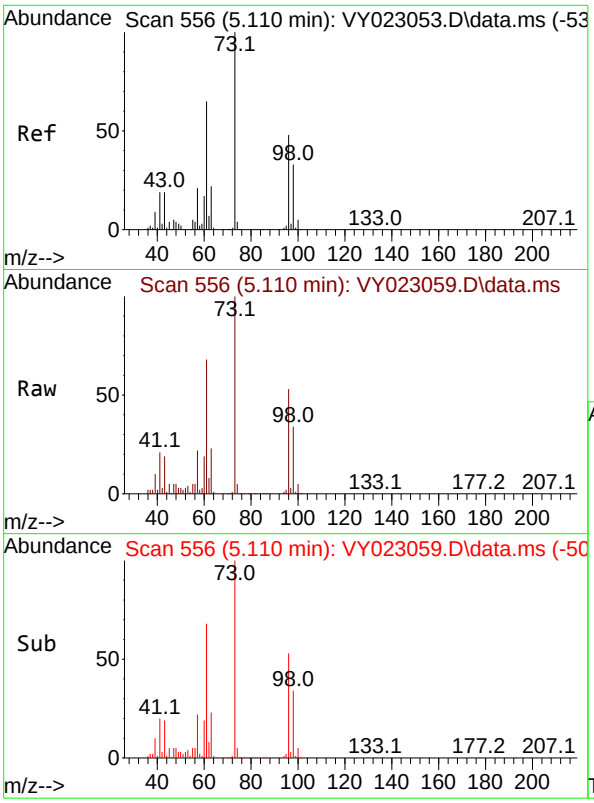


#18
Methyl Acetate
Concen: 41.723 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 137365

Ion	Ratio	Lower	Upper
43	100		
74	26.7	21.2	31.8

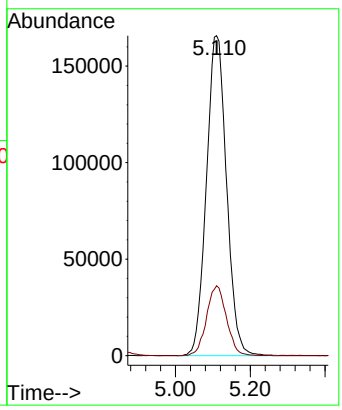




#19
Methyl tert-butyl Ether
Concen: 46.387 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 73 Resp: 62065

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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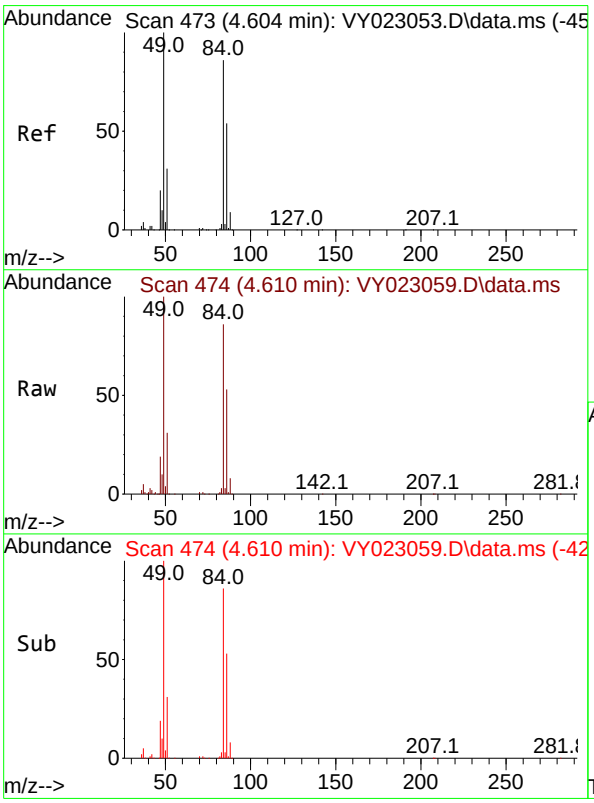
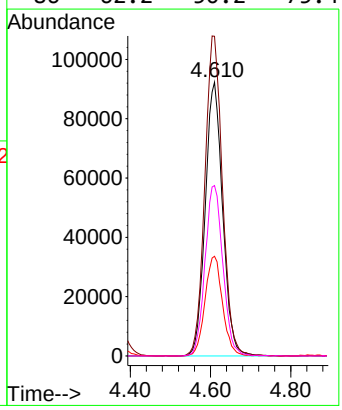
Supervised By :Semsettin Yesilyurt 08/19/2025

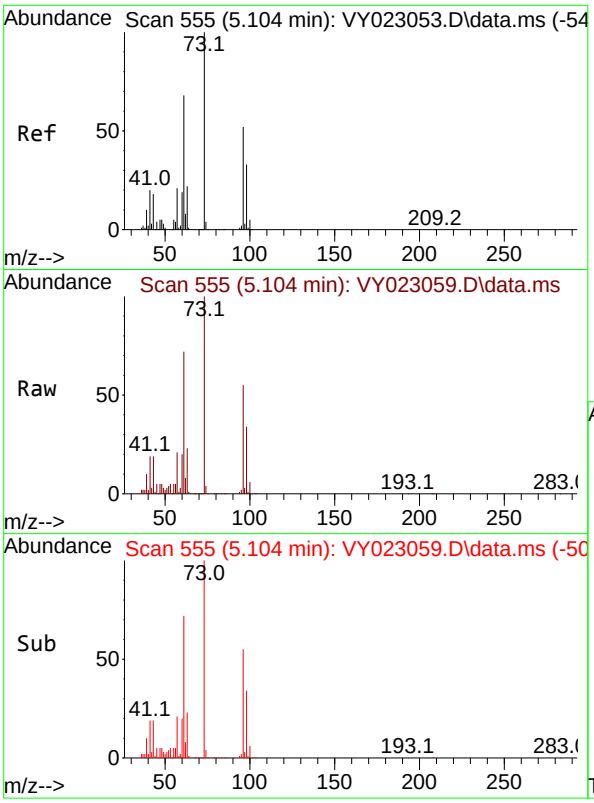


#20
Methylene Chloride
Concen: 48.260 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 84 Resp: 277983

Ion	Ratio	Lower	Upper
84	100		
49	116.8	93.0	139.6
51	36.4	29.0	43.4
86	62.2	50.2	75.4

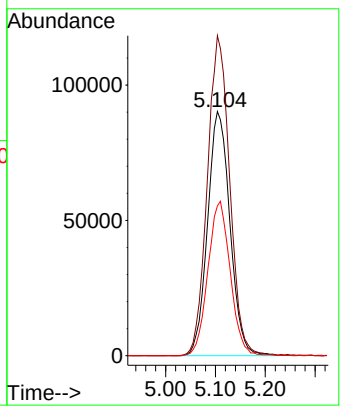




#21
trans-1,2-Dichloroethene
Concen: 48.558 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 28175

Ion	Ratio	Lower	Upper
96	100		
61	131.1	104.8	157.2
98	61.4	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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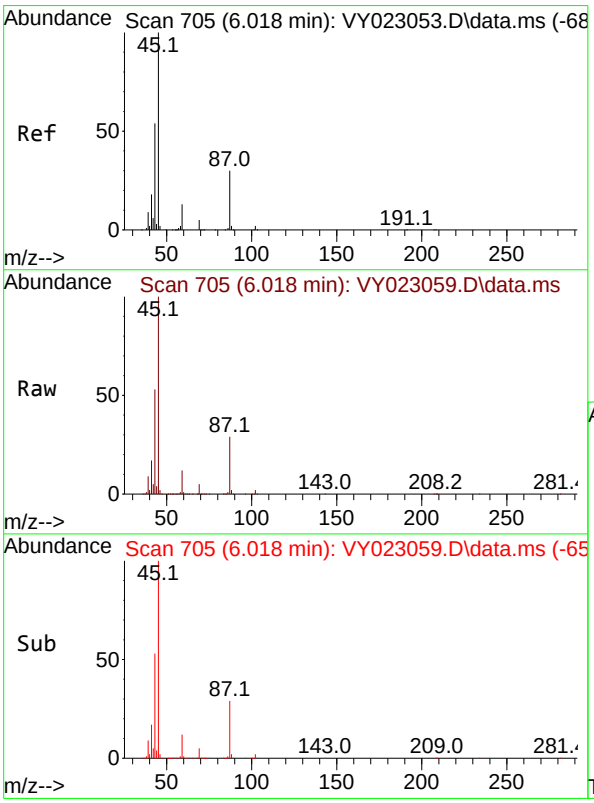
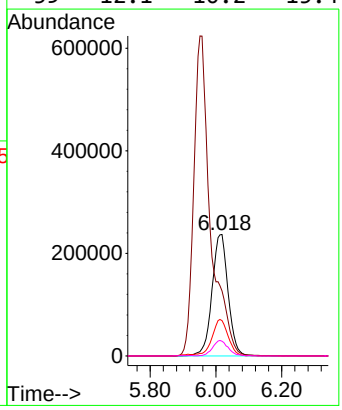
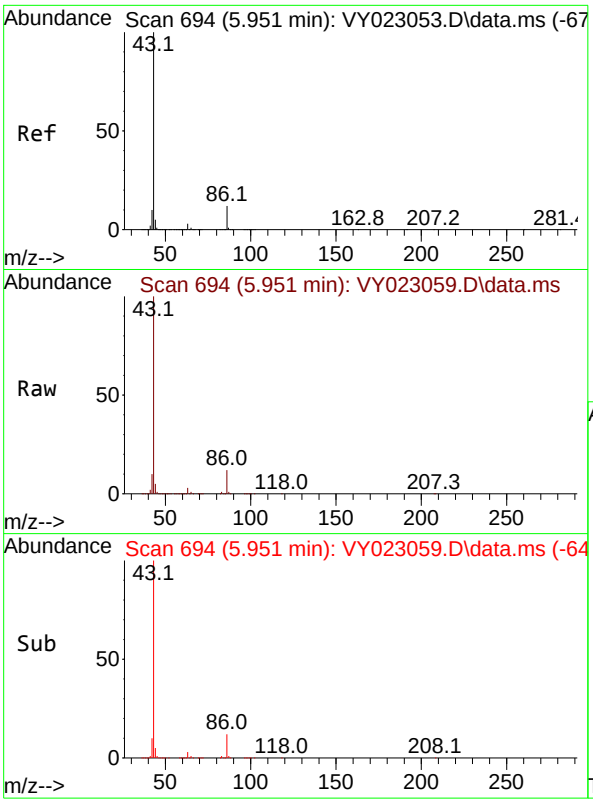


#22
Diisopropyl ether
Concen: 48.705 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 45 Resp: 804095

Ion	Ratio	Lower	Upper
45	100		
43	53.2	43.4	65.0
87	29.2	24.4	36.6
59	12.1	10.2	15.4





#23
Vinyl Acetate
Concen: 241.571 ug/l
RT: 5.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 220528

Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.6	14.4

Instrument :
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ClientSampleId :
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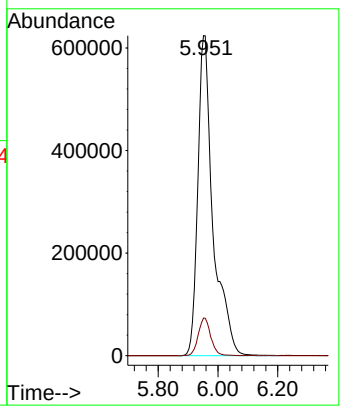
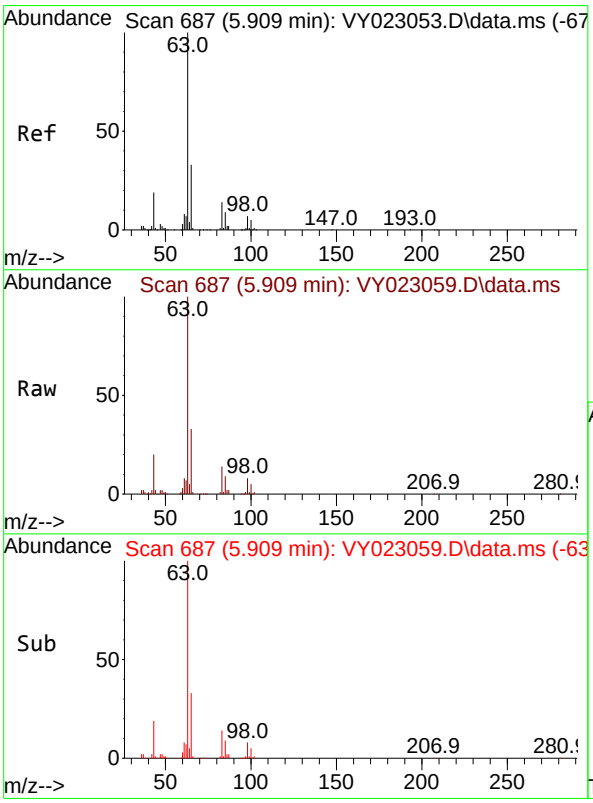
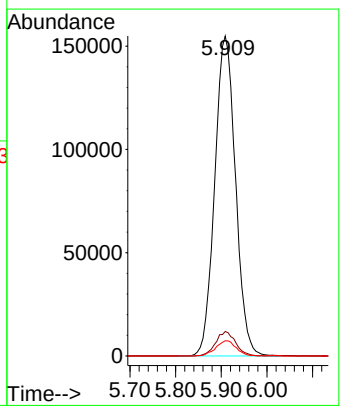


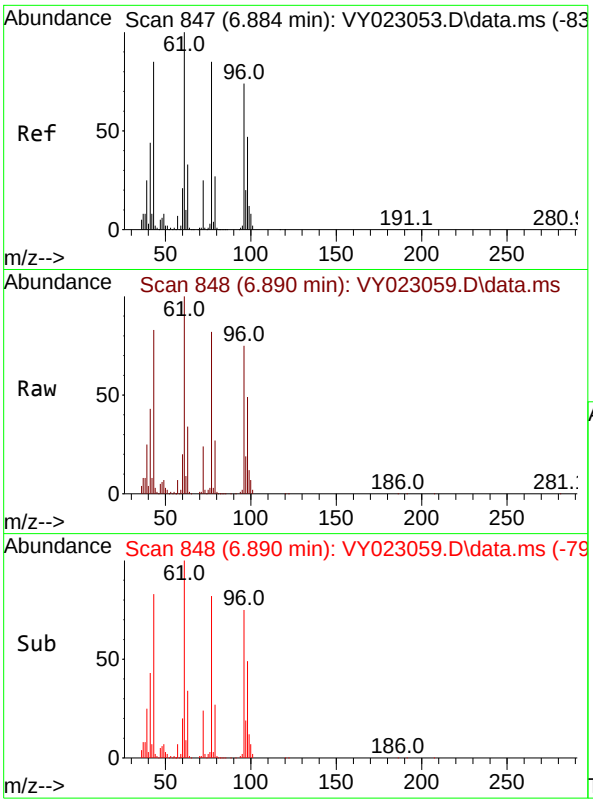


#24
1,1-Dichloroethane
Concen: 48.480 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 489342

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.5	10.6
100	4.8	2.4	7.1





#25
2-Butanone
Concen: 229.361 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 34511

Ion	Ratio	Lower	Upper
43	100		
72	29.0	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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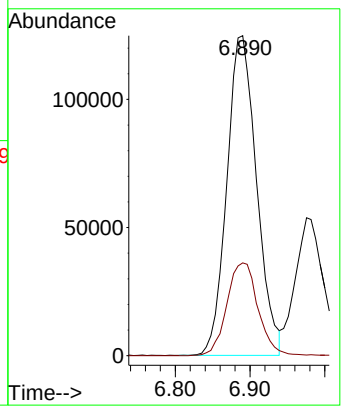
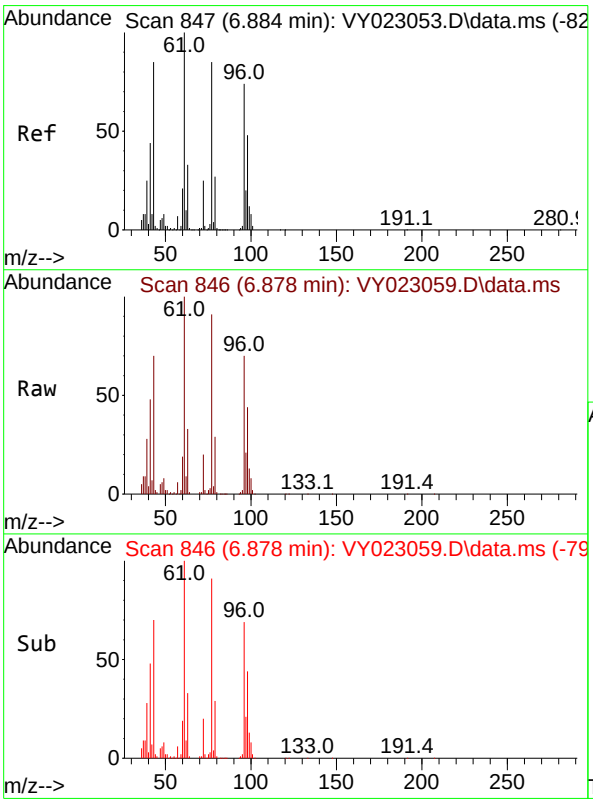
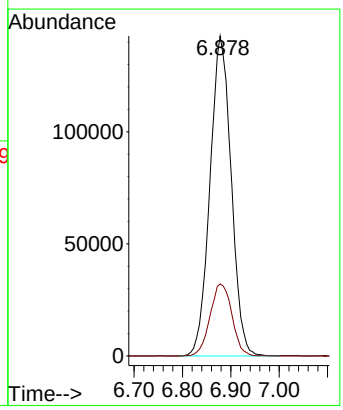


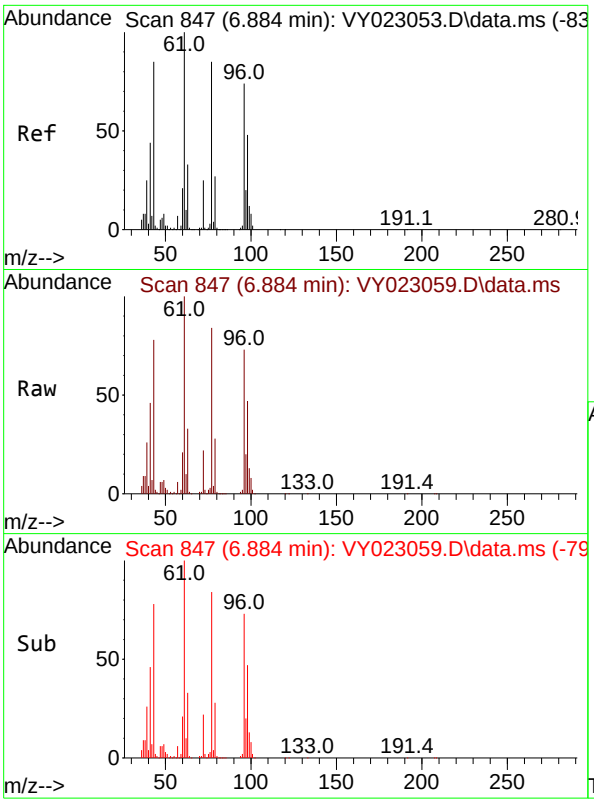


#26
2,2-Dichloropropane
Concen: 49.978 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 77 Resp: 435291

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 47.671 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 31977

Ion	Ratio	Lower	Upper
96	100		
61	141.4	0.0	278.6
98	64.4	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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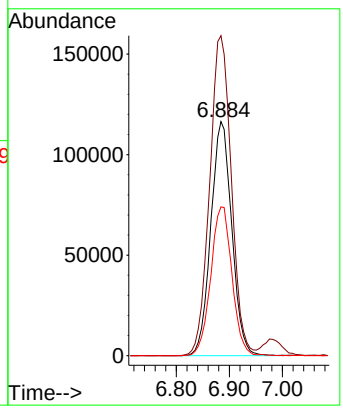
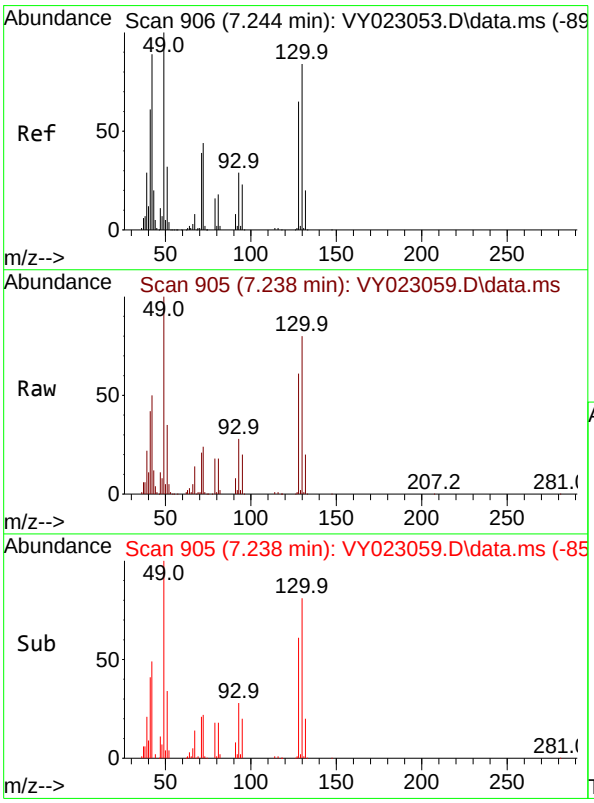
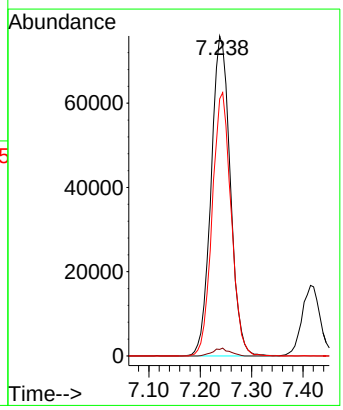


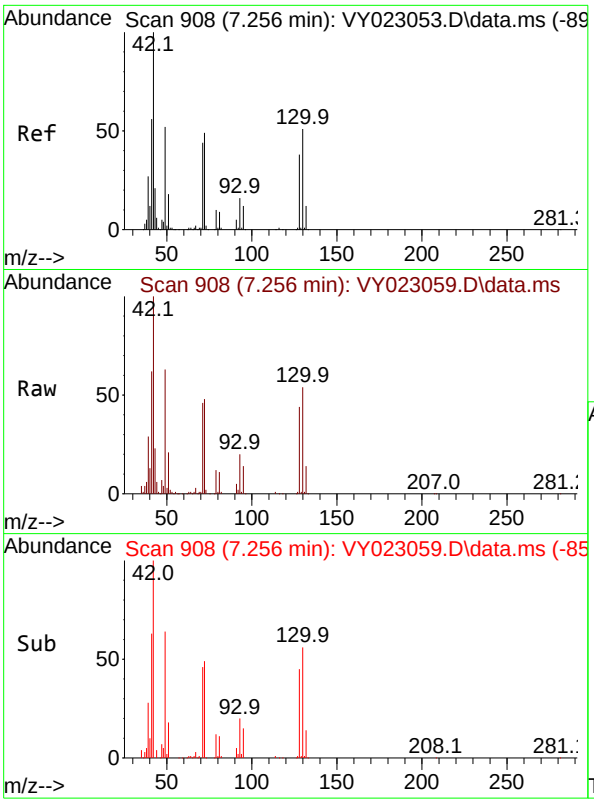


#28
Bromochloromethane
Concen: 49.222 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 49 Resp: 197112

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	80.9	66.4	99.6





#29
Tetrahydrofuran
Concen: 224.929 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 42 Resp: 20978

Ion	Ratio	Lower	Upper
42	100		
72	48.0	39.4	59.2
71	45.1	36.5	54.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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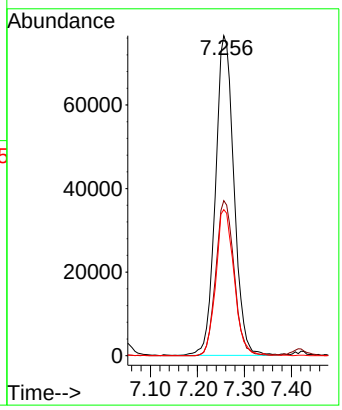
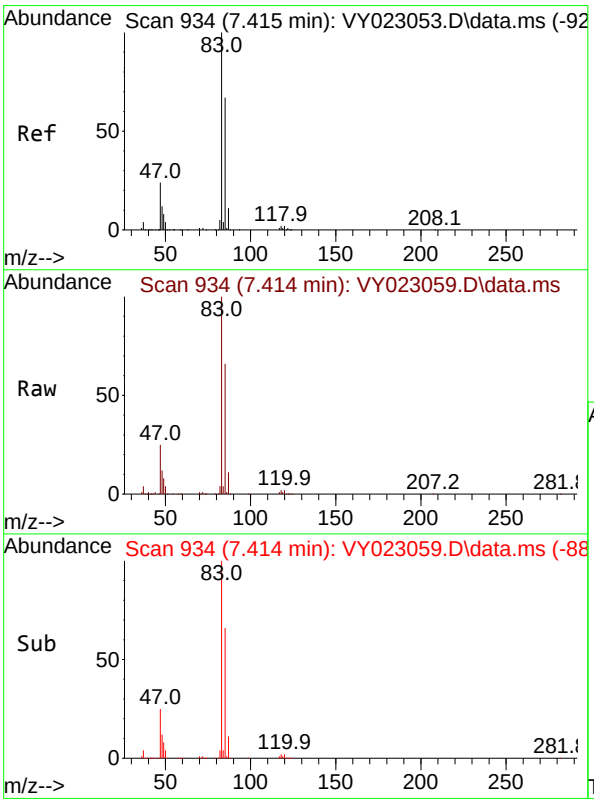
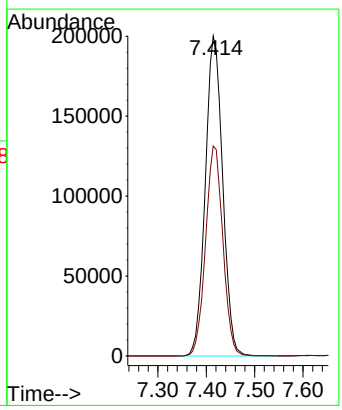


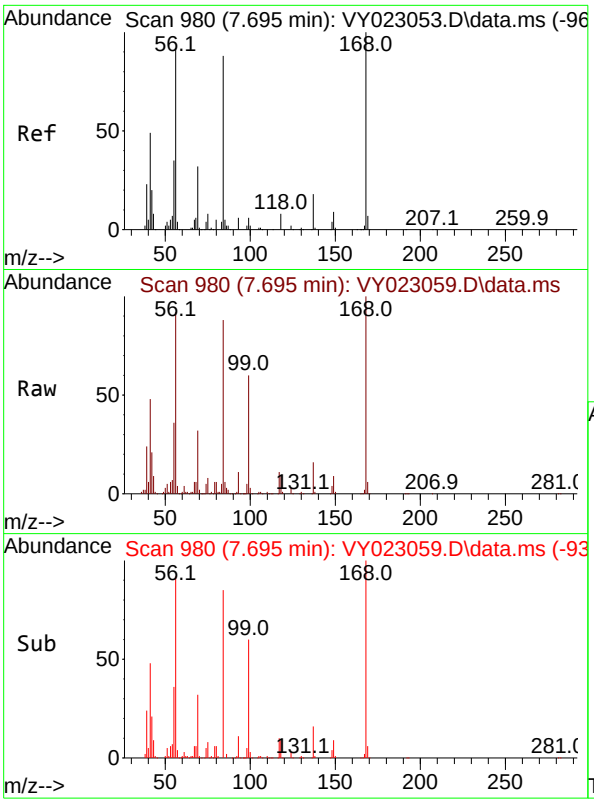


#30
Chloroform
Concen: 47.994 ug/l
RT: 7.414 min Scan# 934
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 499613

Ion	Ratio	Lower	Upper
83	100		
85	65.6	53.8	80.8

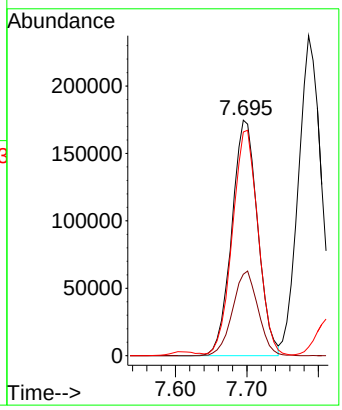




#31
Cyclohexane
Concen: 46.262 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 56 Resp: 44004

Ion	Ratio	Lower	Upper
56	100		
69	34.6	28.2	42.2
84	93.2	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
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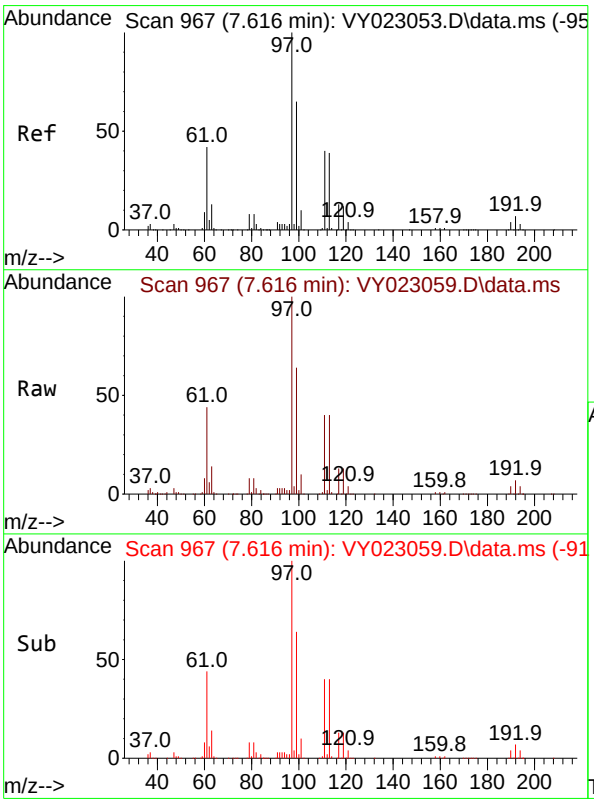
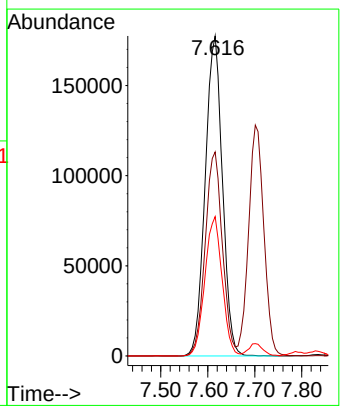
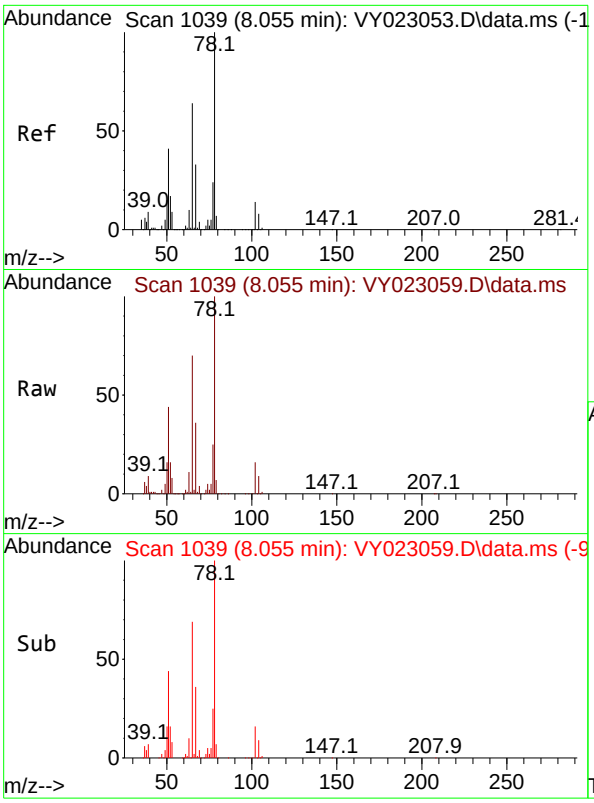


#32
1,1,1-Trichloroethane
Concen: 48.765 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 97 Resp: 450437

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.6	77.4
61	43.8	34.2	51.2

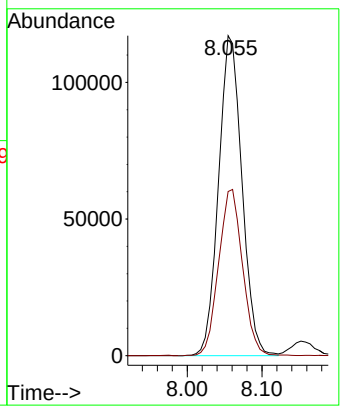




#33
1,2-Dichloroethane-d4
Concen: 49.931 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 65 Resp: 25498

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.8



Instrument :
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ClientSampleId :
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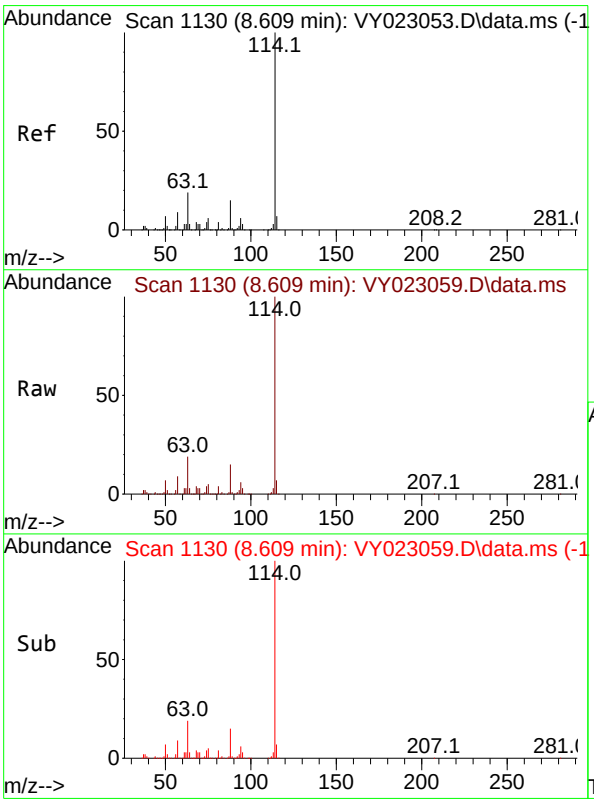
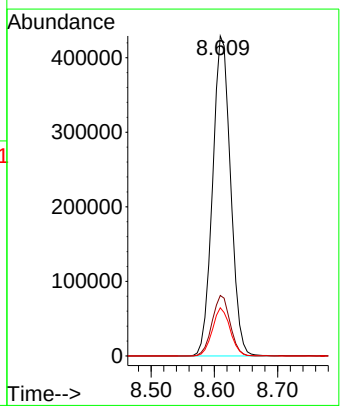
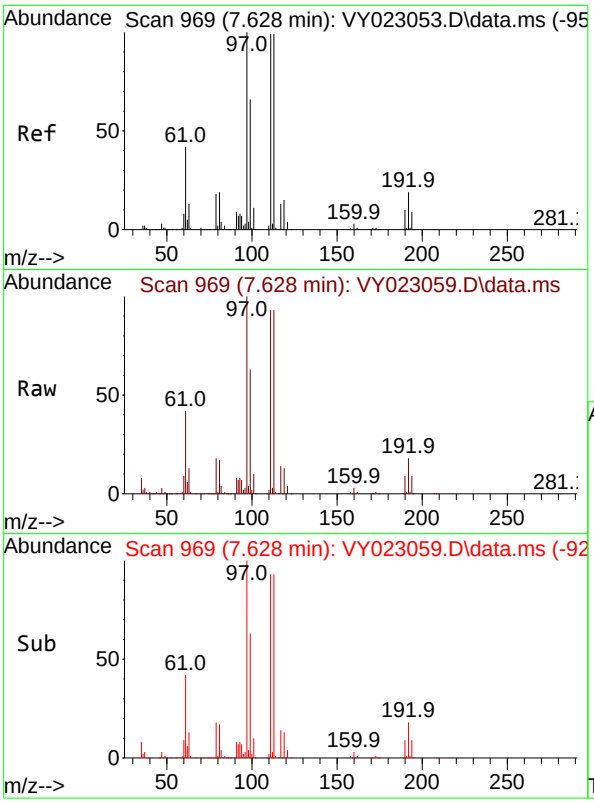


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:114 Resp: 845865

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	38.4
88	15.1	0.0	30.0

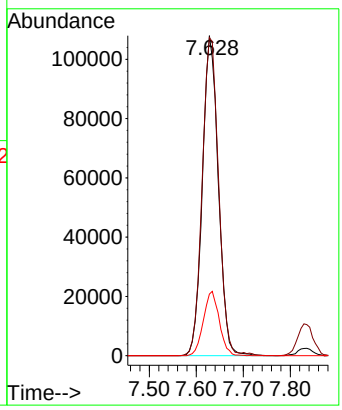




#35
Dibromofluoromethane
Concen: 50.227 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:113 Resp: 25421

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.1	121.7
192	20.0	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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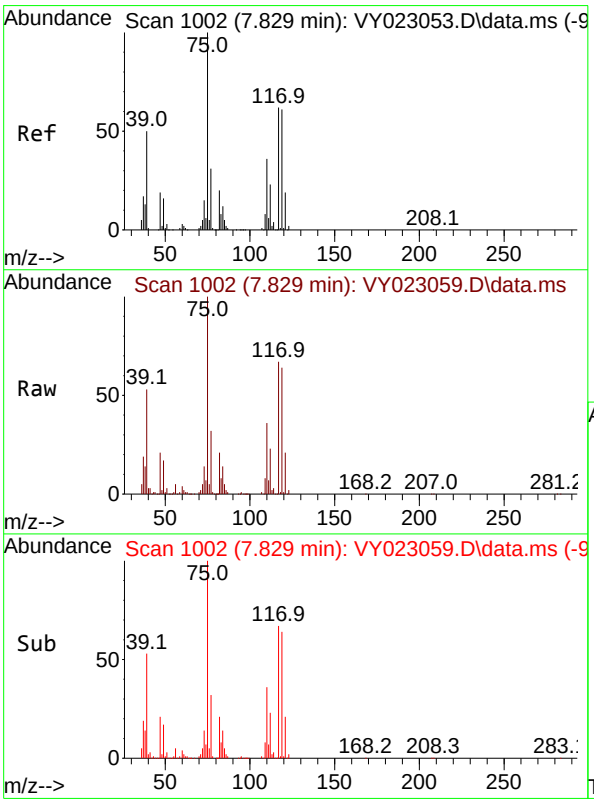
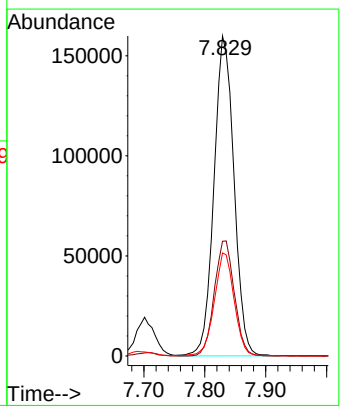
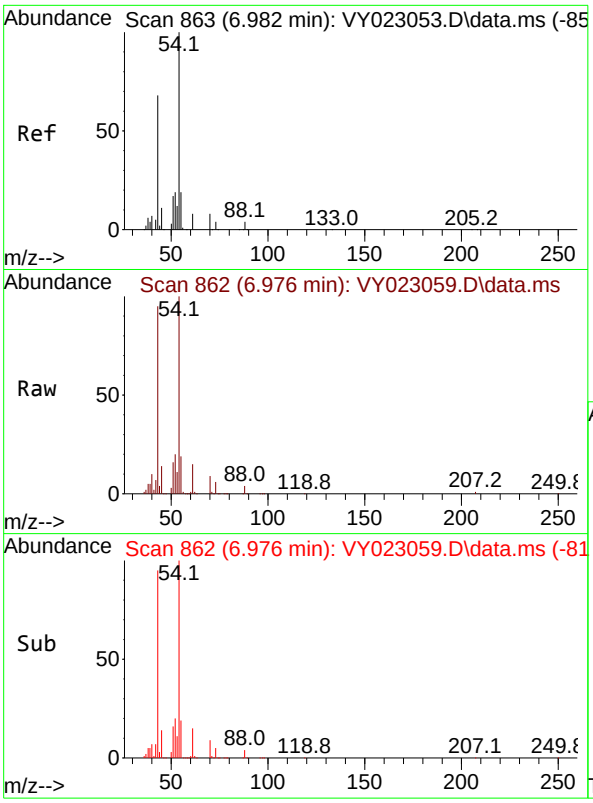


#36
1,1-Dichloropropene
Concen: 48.533 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 365059

Ion	Ratio	Lower	Upper
75	100		
110	35.9	18.1	54.4
77	32.0	24.6	37.0





#37
Ethyl Acetate
Concen: 45.366 ug/l
RT: 6.976 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 14334

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.9	17.9
70	10.6	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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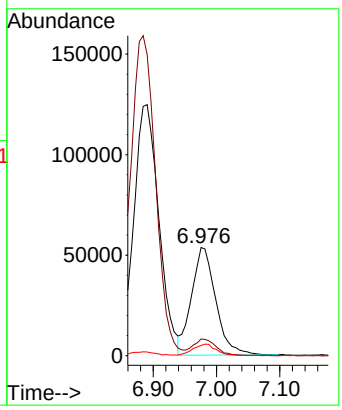
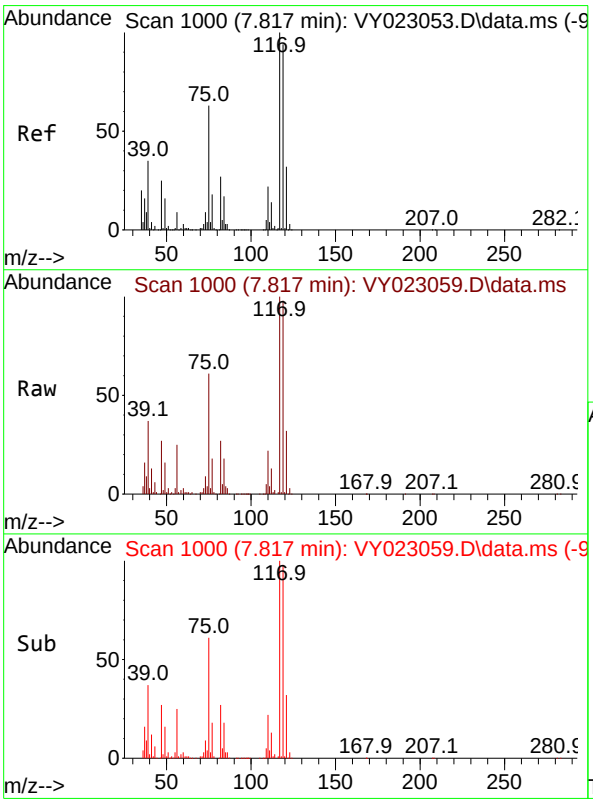
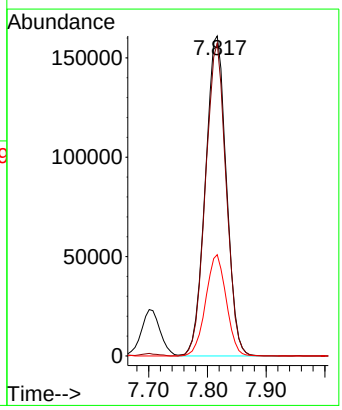


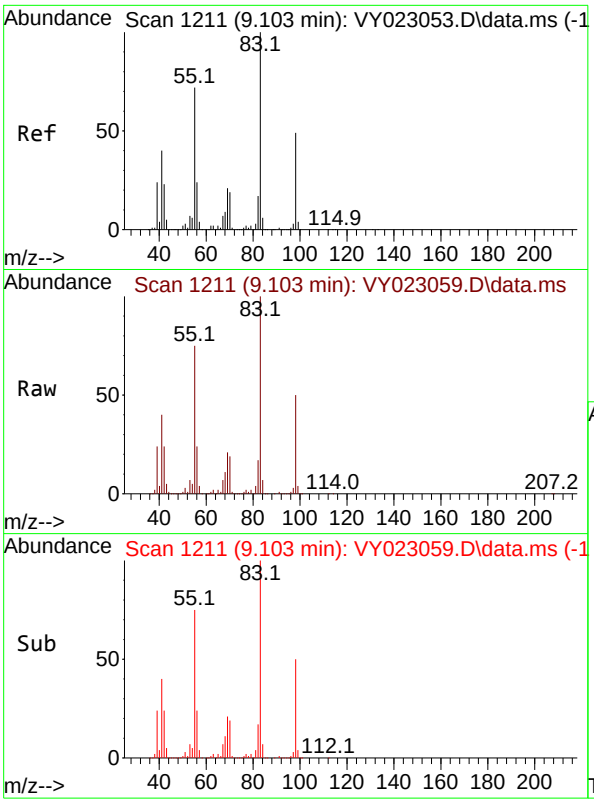


#38
Carbon Tetrachloride
Concen: 48.841 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 399023

Ion	Ratio	Lower	Upper
117	100		
119	97.7	75.6	113.4
121	31.6	25.8	38.8





#39
Methylcyclohexane
Concen: 49.119 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 48654

Ion	Ratio	Lower	Upper
83	100		
55	74.6	57.6	86.4
98	50.1	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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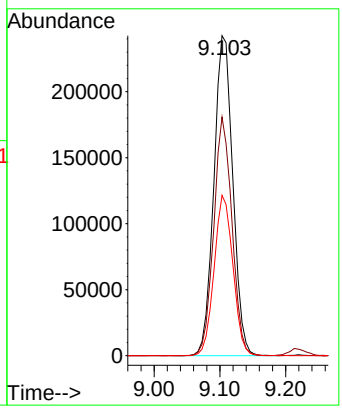
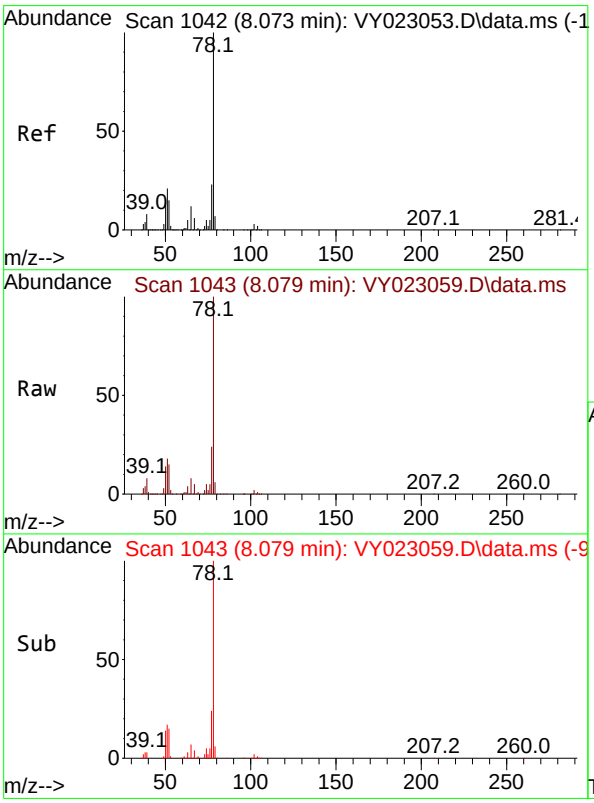
Supervised By :Semsettin Yesilyurt 08/19/2025

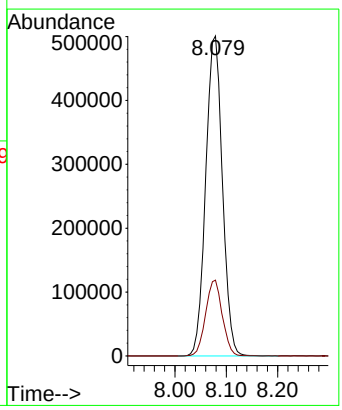


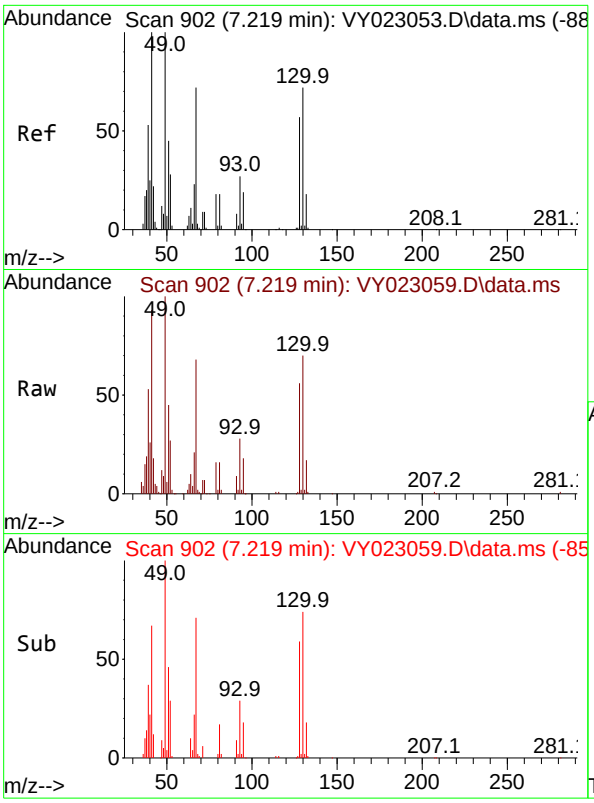


#40
Benzene
Concen: 48.666 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 78 Resp: 1128264

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0

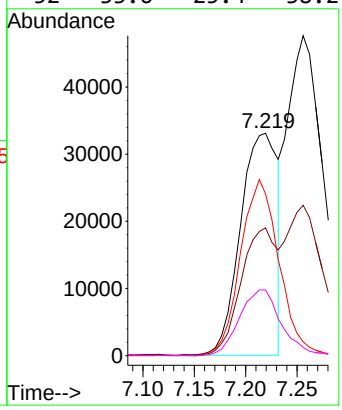




#41
Methacrylonitrile
Concen: 45.492 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 8295

Ion	Ratio	Lower	Upper
41	100		
39	56.1	43.4	65.2
67	82.9	63.6	95.4
52	33.6	25.4	38.2



Instrument :
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ClientSampleId :
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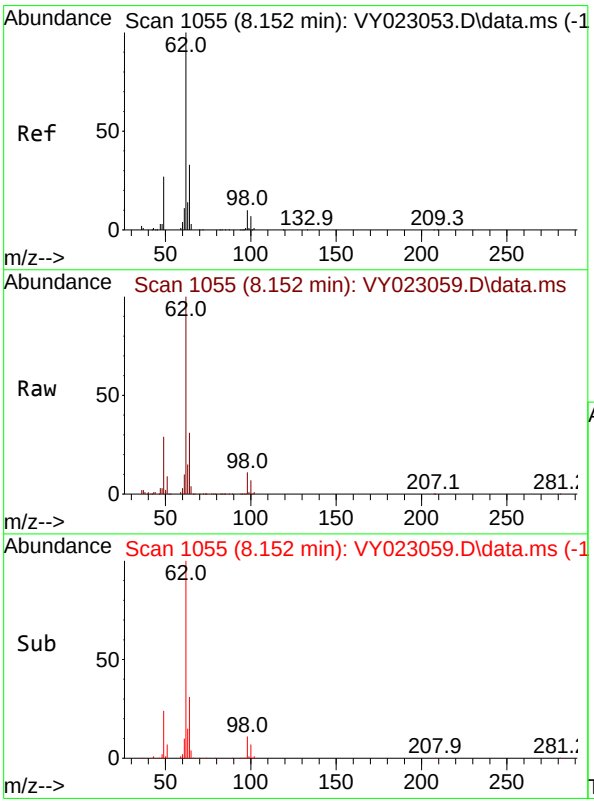
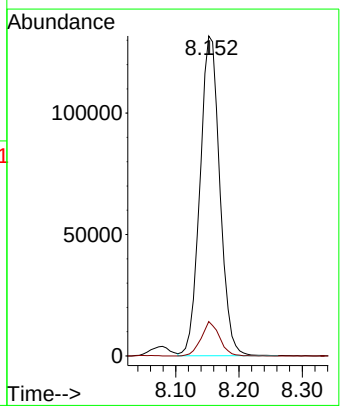
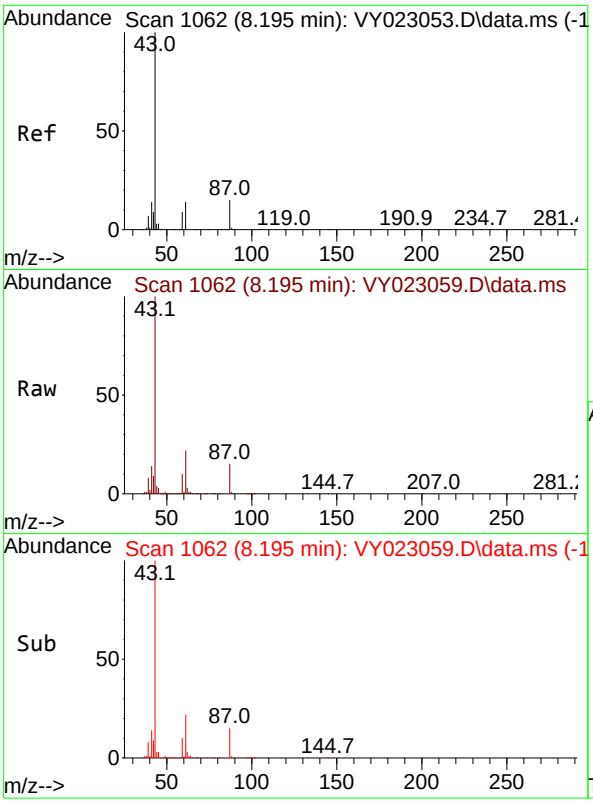


#42
1,2-Dichloroethane
Concen: 47.637 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 287233

Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.6

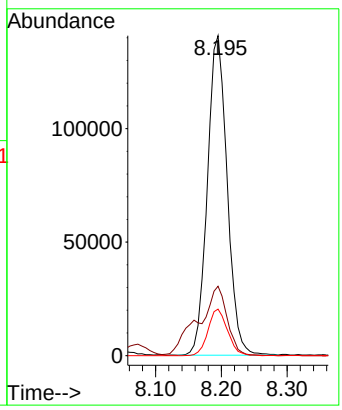




#43
Isopropyl Acetate
Concen: 46.179 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 29491

Ion	Ratio	Lower	Upper
43	100		
61	31.9	16.4	24.6#
87	14.4	11.8	17.6



Instrument :
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ClientSampleId :
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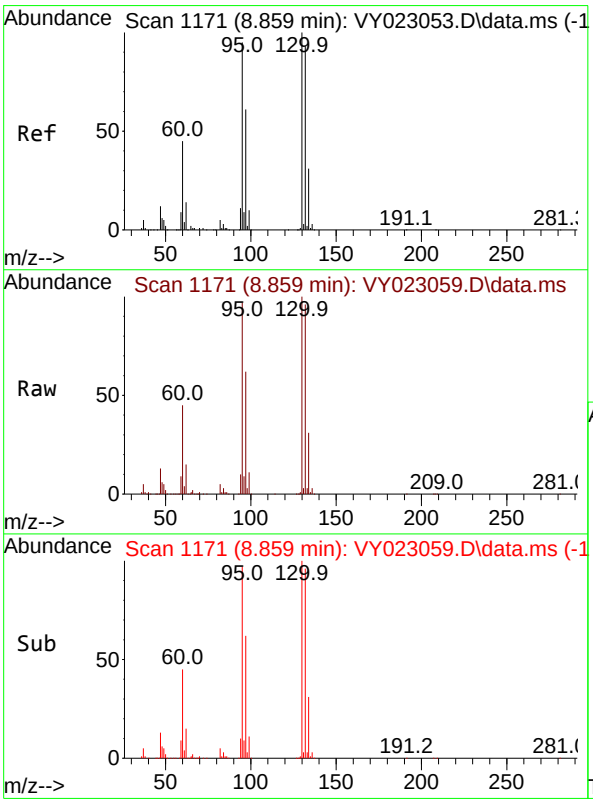
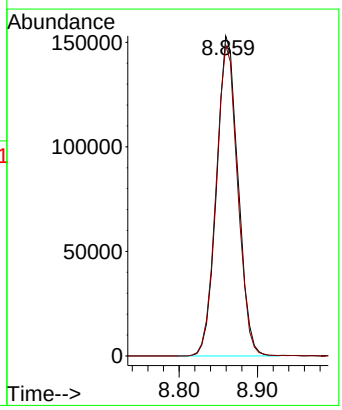
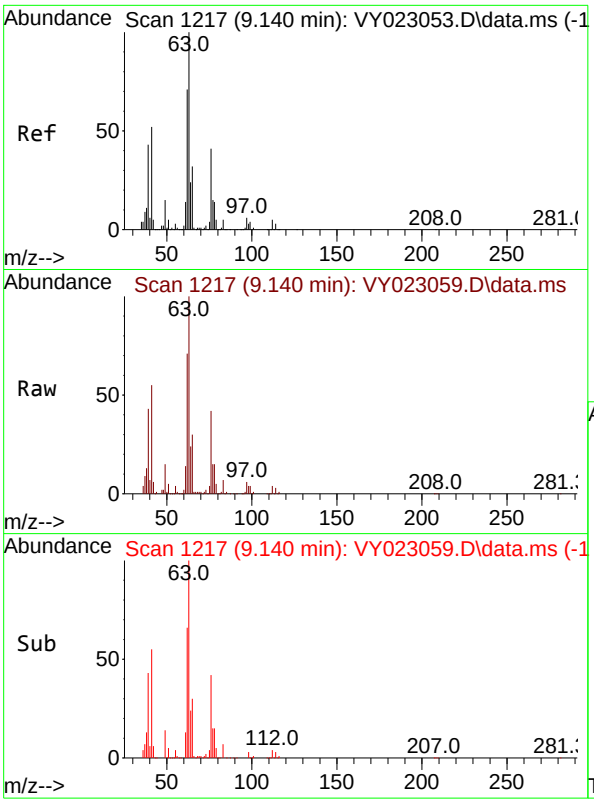


#44
Trichloroethene
Concen: 48.551 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:130 Resp: 290876

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	190.2

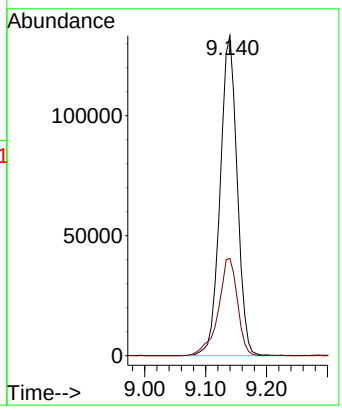




#45
1,2-Dichloropropane
Concen: 48.591 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 25919

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.3	37.9



Instrument :
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ClientSampleId :
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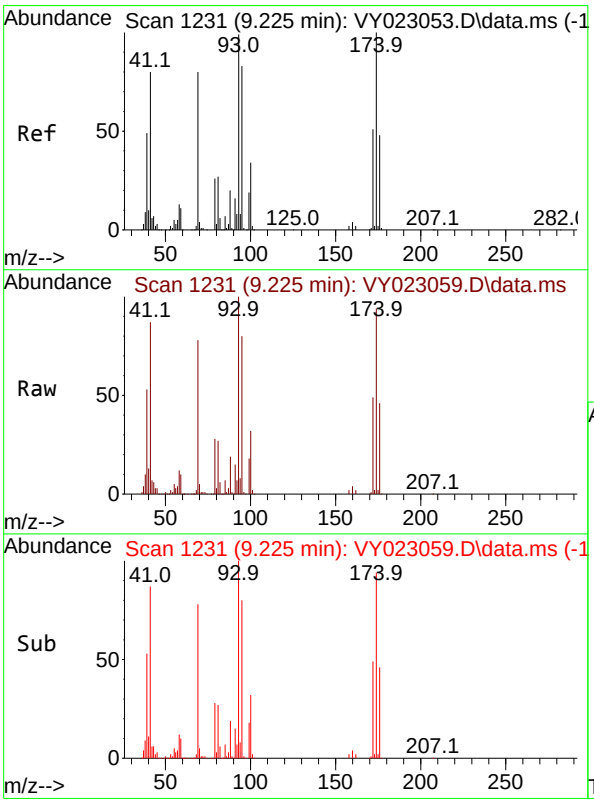
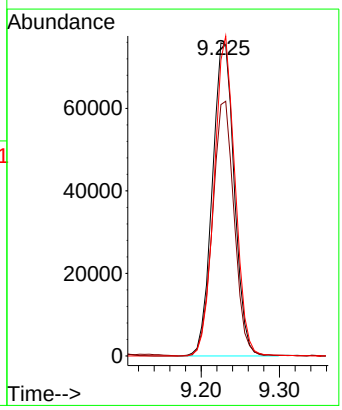
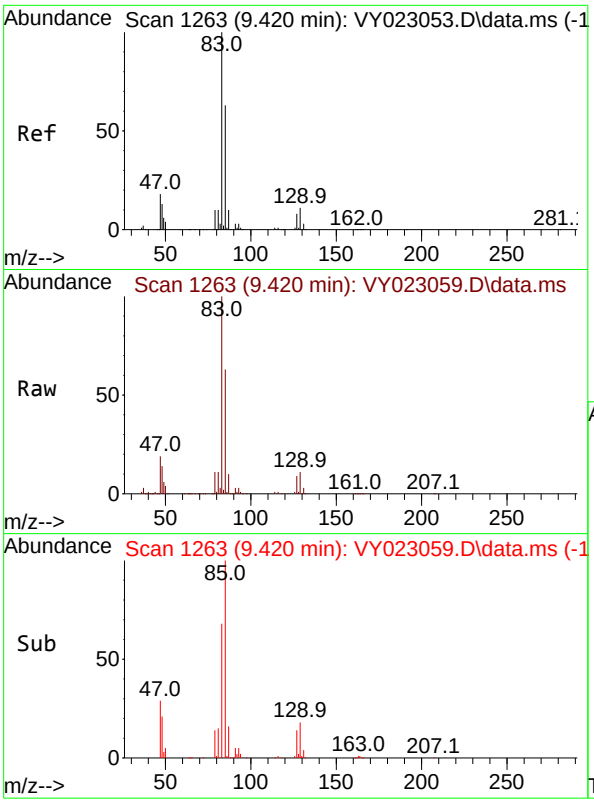


#46
Dibromomethane
Concen: 48.268 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 93 Resp: 147784

Ion	Ratio	Lower	Upper
93	100		
95	80.3	66.5	99.7
174	97.5	81.8	122.8

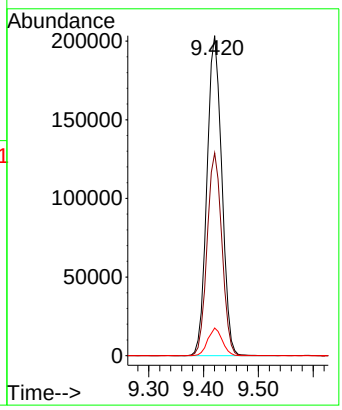




#47
Bromodichloromethane
Concen: 48.276 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 38033

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.2	75.4
127	8.7	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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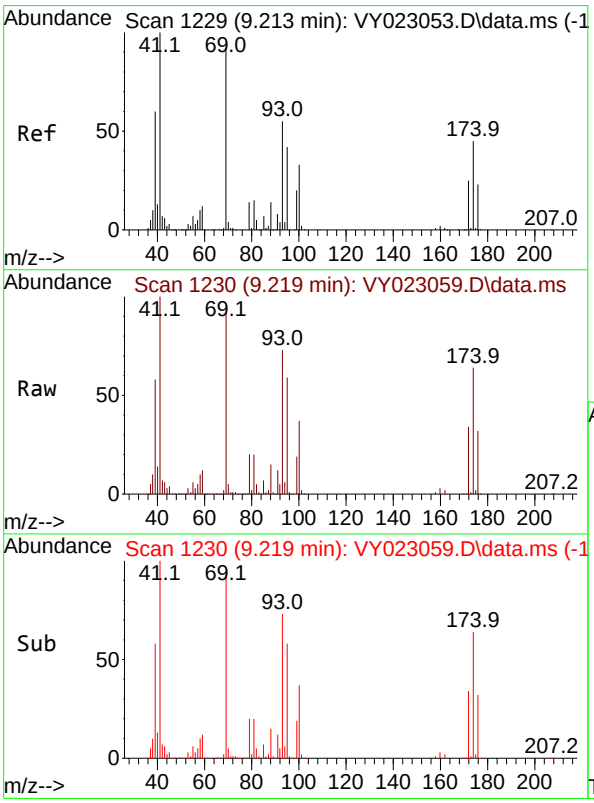
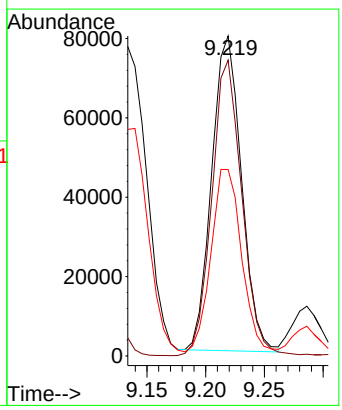
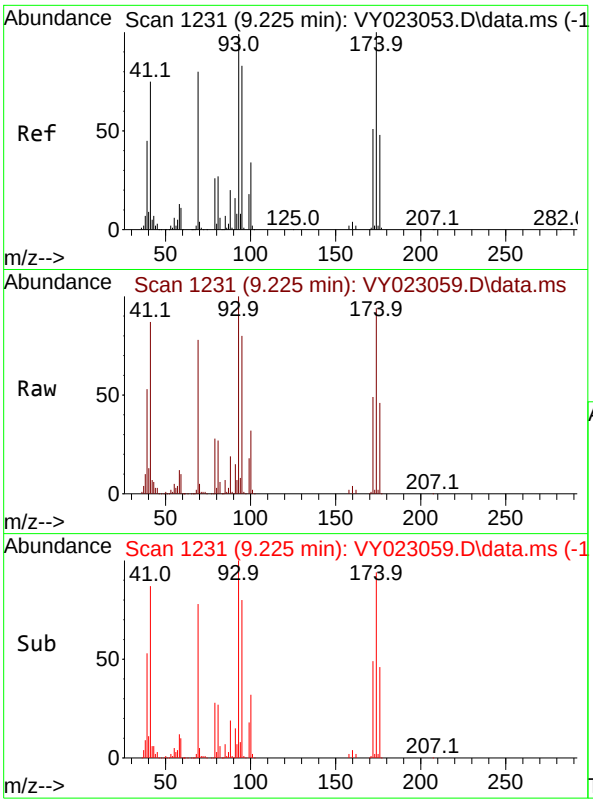


#48
Methyl methacrylate
Concen: 45.747 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 139803

Ion	Ratio	Lower	Upper
41	100		
69	95.0	73.2	109.8
39	59.5	47.0	70.4





#49
1,4-Dioxane
Concen: 905.464 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 88 Resp: 3250

Ion	Ratio	Lower	Upper
88	100		
43	29.3	24.3	36.5
58	62.5	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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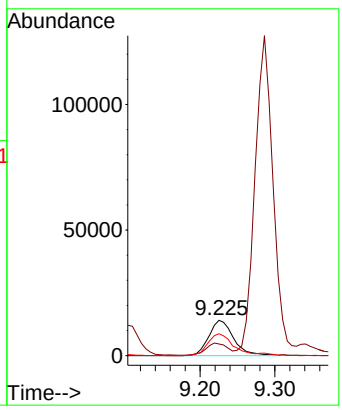
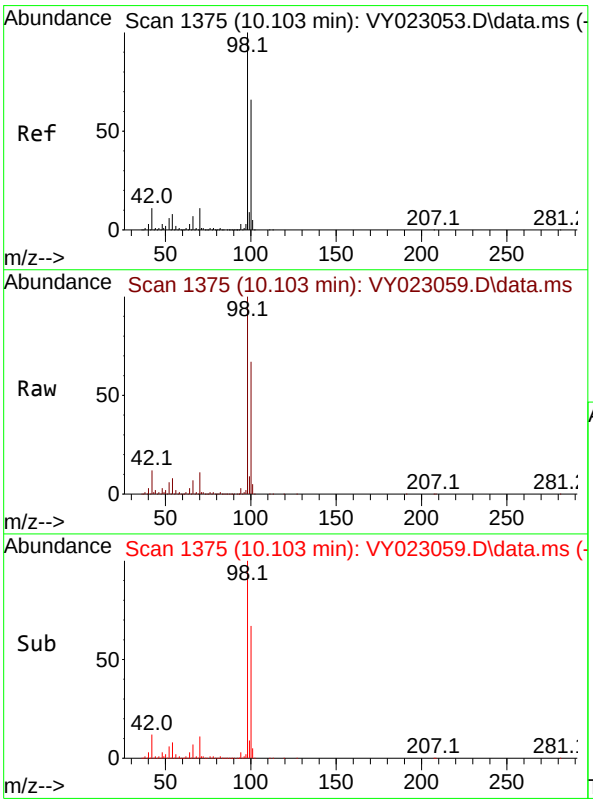
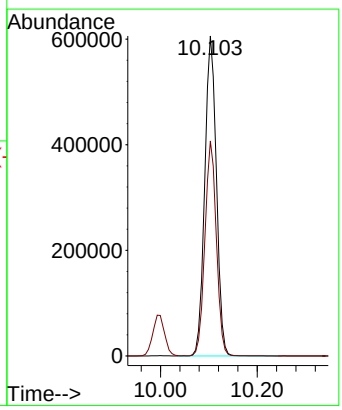


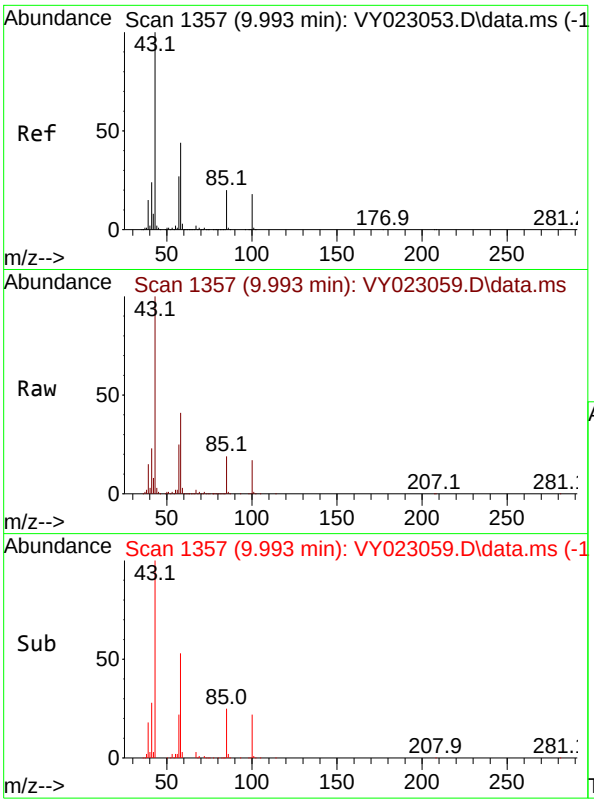


#50
Toluene-d8
Concen: 51.328 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 98 Resp: 1014903

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.3	78.5

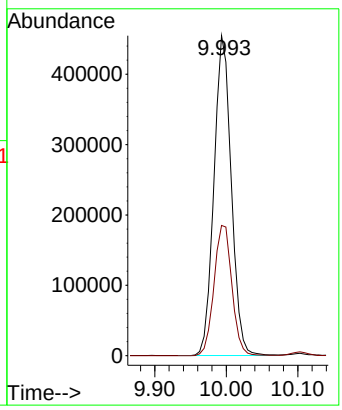




#51
4-Methyl-2-Pentanone
Concen: 232.613 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 76628

Ion	Ratio	Lower	Upper
43	100		
58	42.1	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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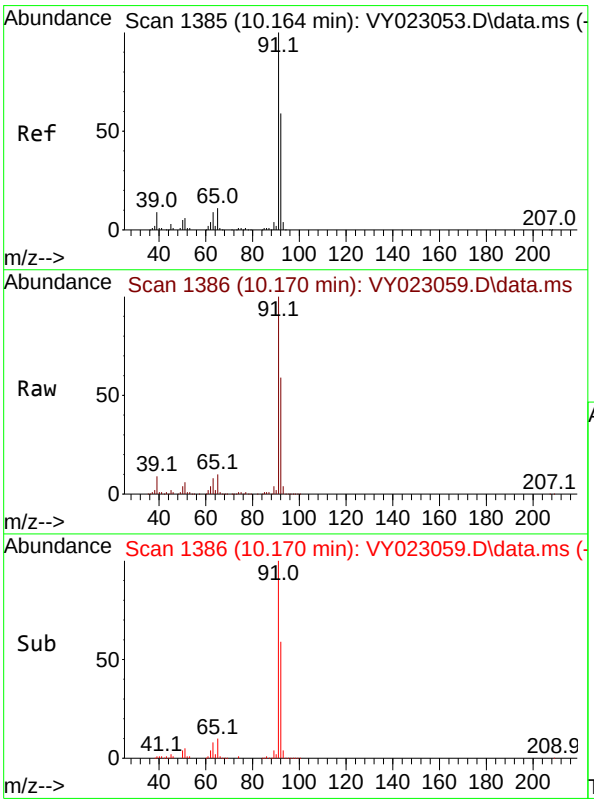
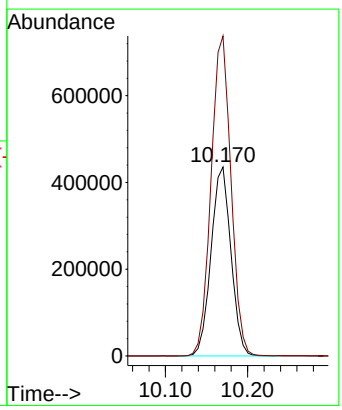
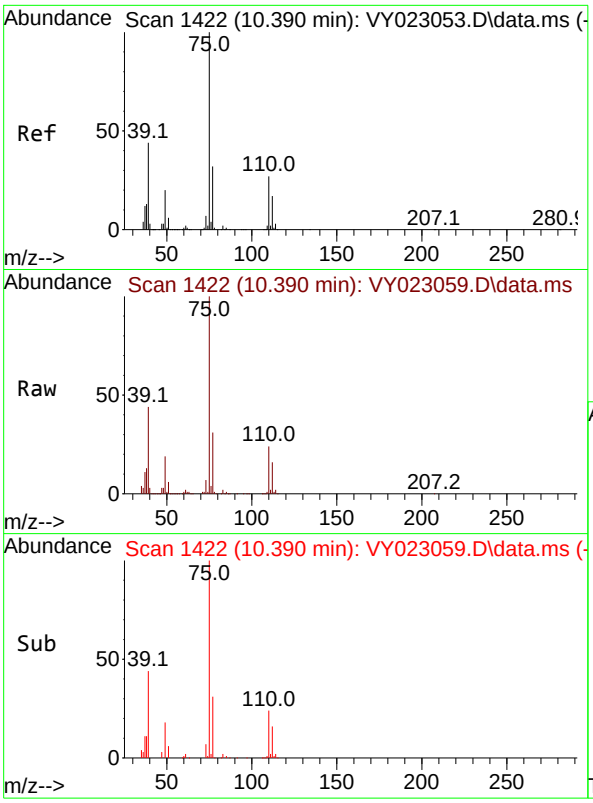


#52
Toluene
Concen: 49.619 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 92 Resp: 730616

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 48.623 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 34688

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
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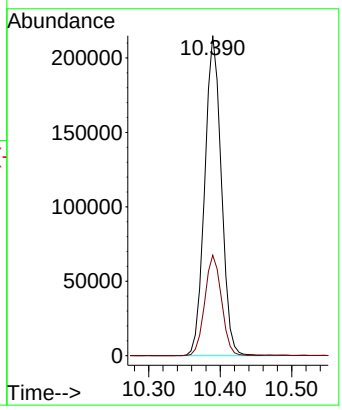
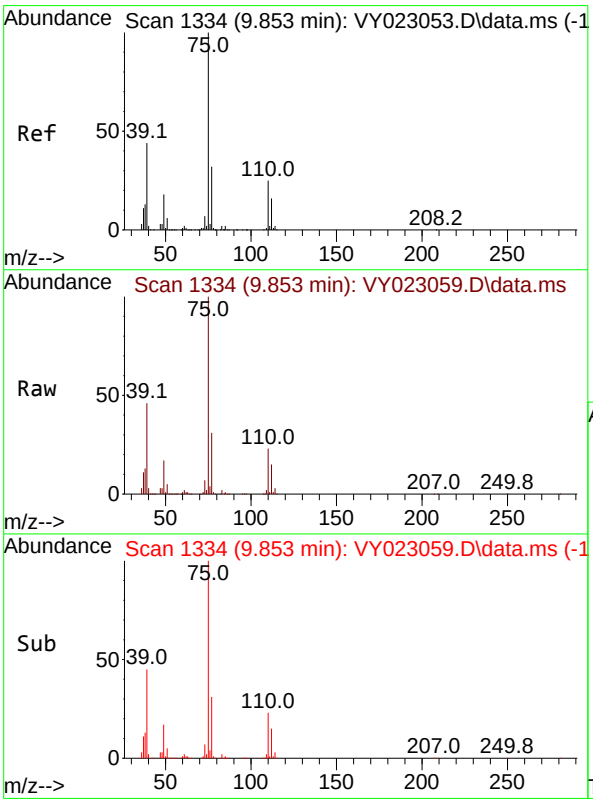
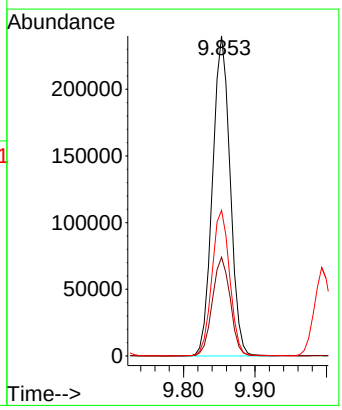


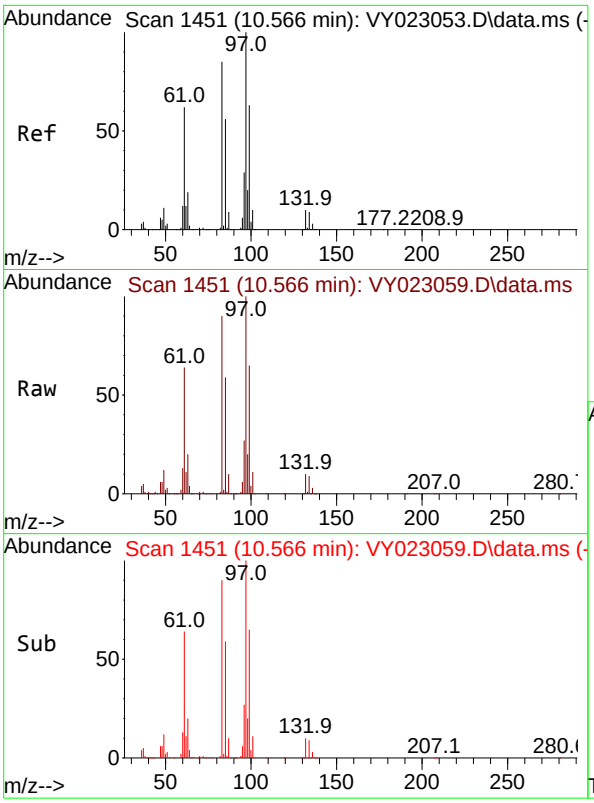


#54
cis-1,3-Dichloropropene
Concen: 48.667 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 410557

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0
39	45.5	35.6	53.4

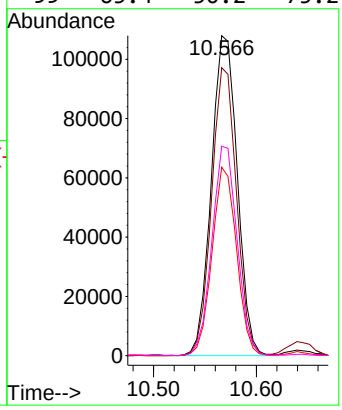




#55
1,1,2-Trichloroethane
Concen: 46.330 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 97 Resp: 18981

Ion	Ratio	Lower	Upper
97	100		
83	89.9	67.7	101.5
85	58.8	44.5	66.7
99	65.4	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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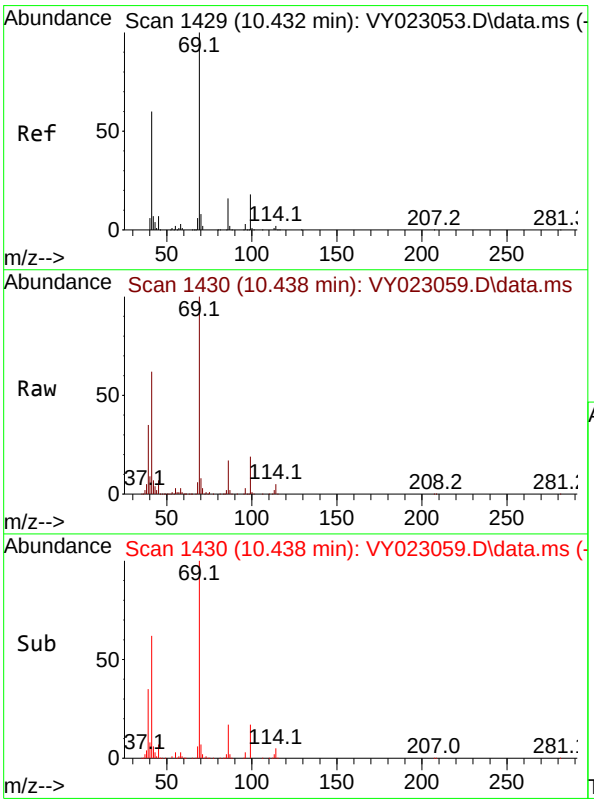
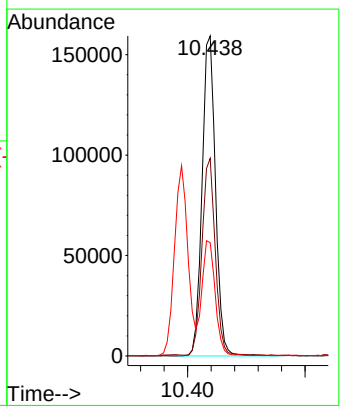
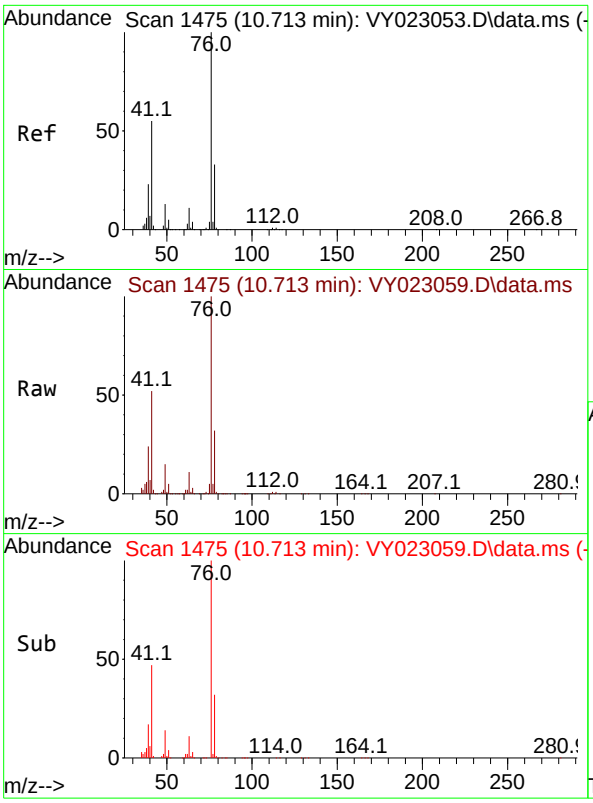


#56
Ethyl methacrylate
Concen: 48.194 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 69 Resp: 252654

Ion	Ratio	Lower	Upper
69	100		
41	61.0	48.6	72.8
39	35.3	27.0	40.4





#57
1,3-Dichloropropane
Concen: 47.351 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 76 Resp: 32899

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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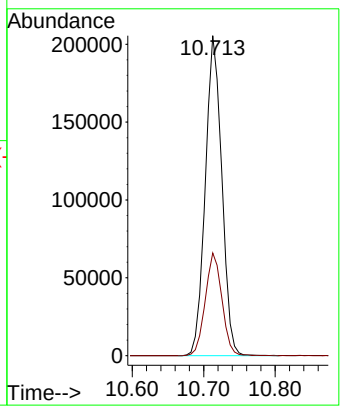
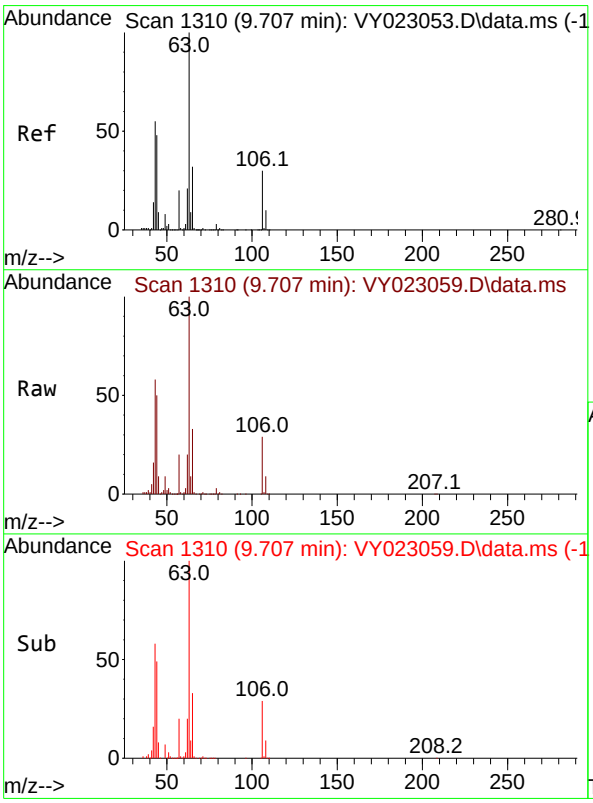
Supervised By :Semsettin Yesilyurt 08/19/2025

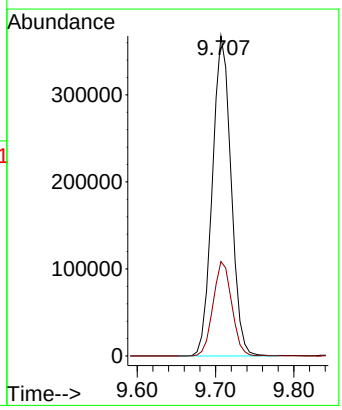


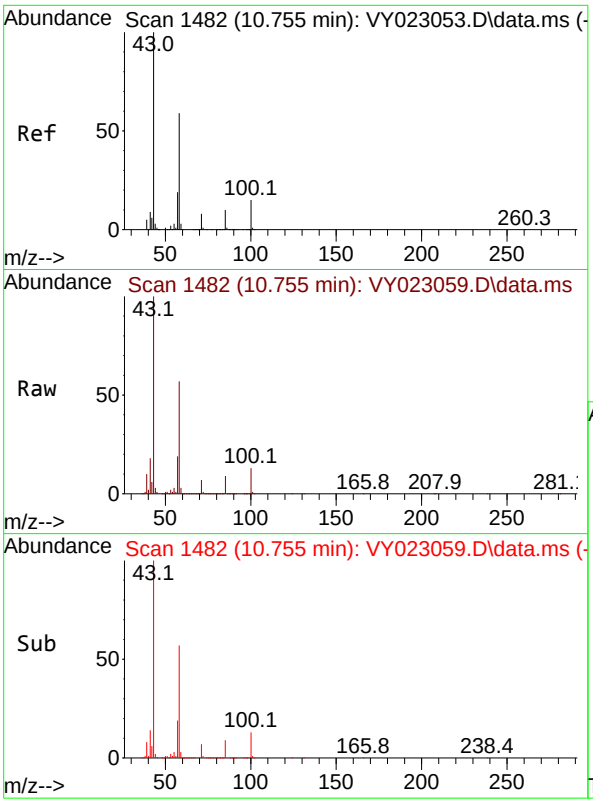


#58
2-Chloroethyl Vinyl ether
Concen: 246.593 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 609788

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.2	34.8





#59
2-Hexanone
Concen: 243.235 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 54561

Ion	Ratio	Lower	Upper
43	100		
58	57.6	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
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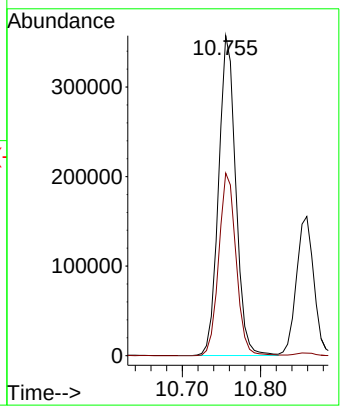
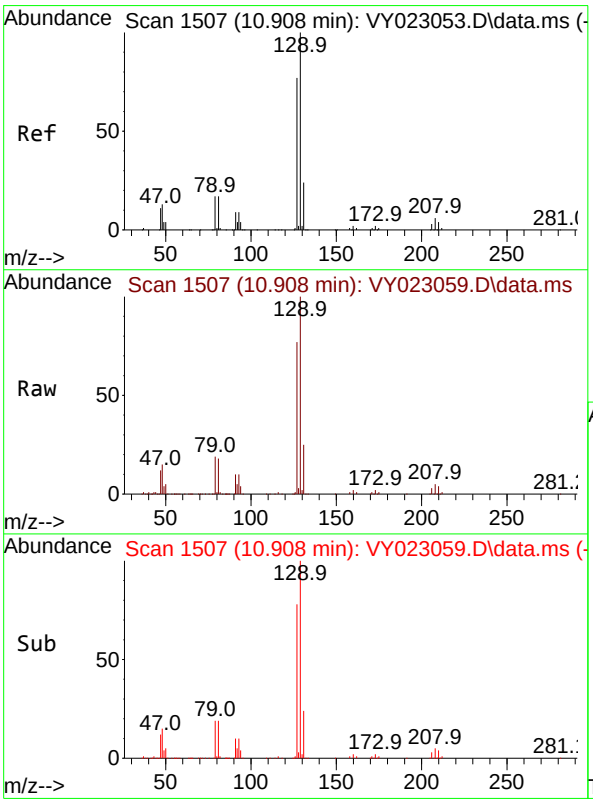
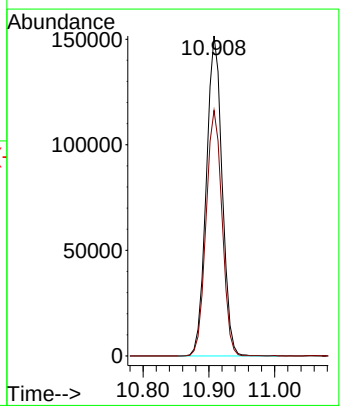


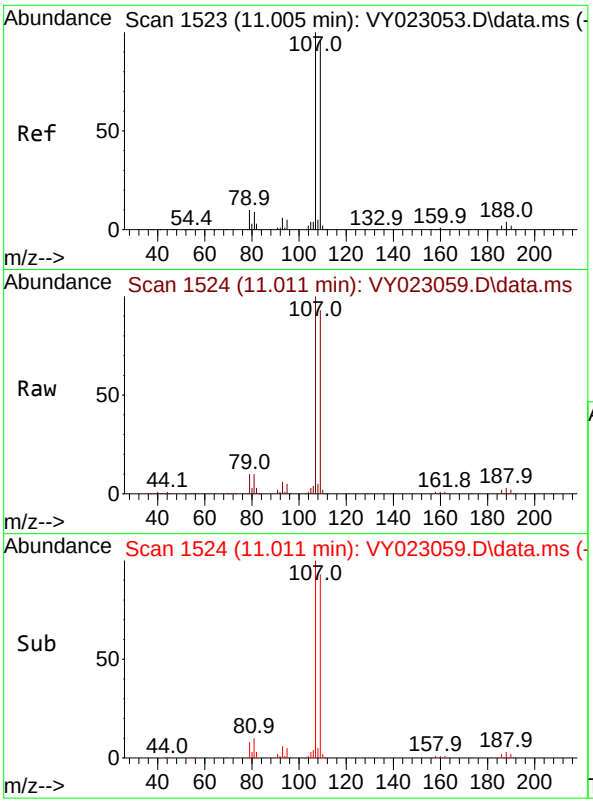


#60
Dibromochloromethane
Concen: 46.904 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:129 Resp: 253556

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.5	115.5





#61
1,2-Dibromoethane
Concen: 46.761 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:107 Resp: 18006

Ion	Ratio	Lower	Upper
107	100		
109	93.2	75.6	113.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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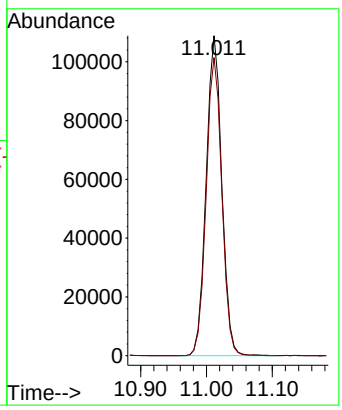
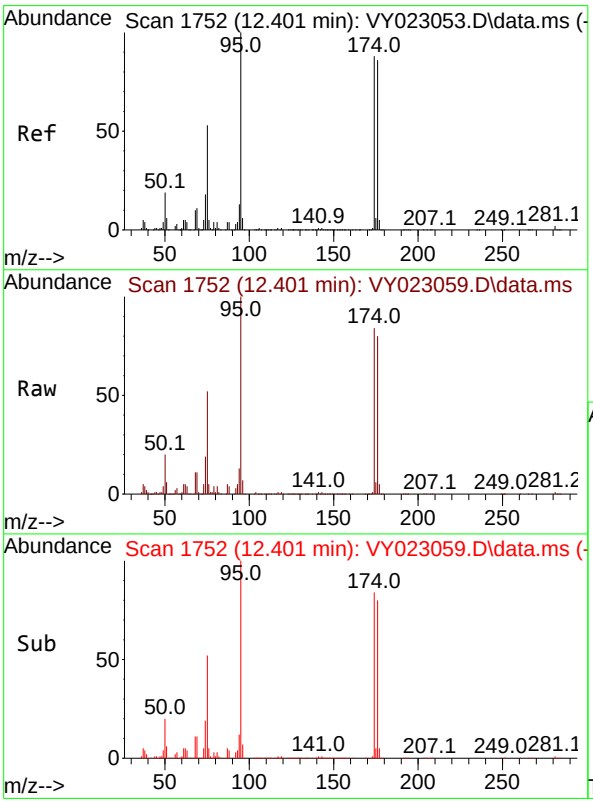
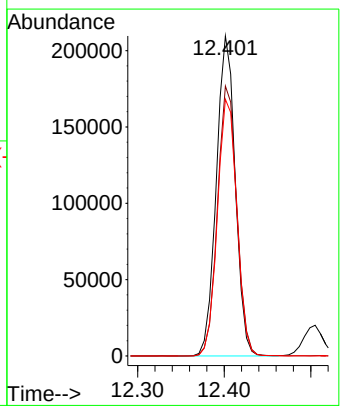


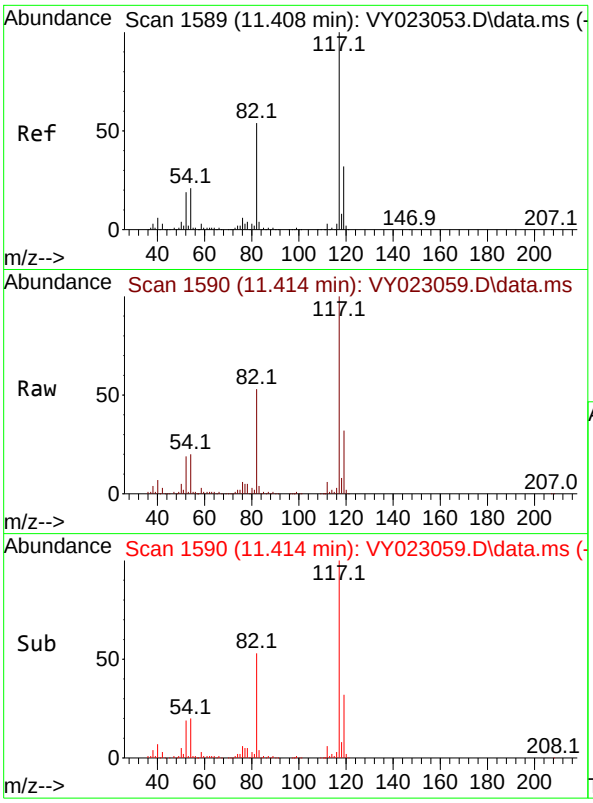


#62
4-Bromofluorobenzene
Concen: 50.020 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 95 Resp: 318073

Ion	Ratio	Lower	Upper
95	100		
174	85.9	0.0	171.6
176	82.6	0.0	167.6

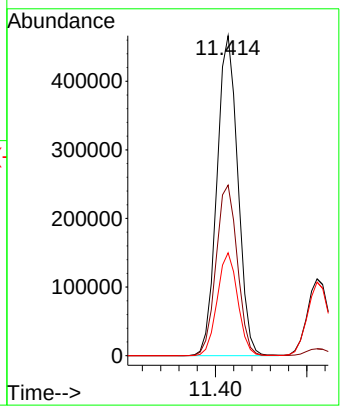




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 74185

Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.4	65.0
119	32.2	25.6	38.4



Instrument :
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ClientSampleId :
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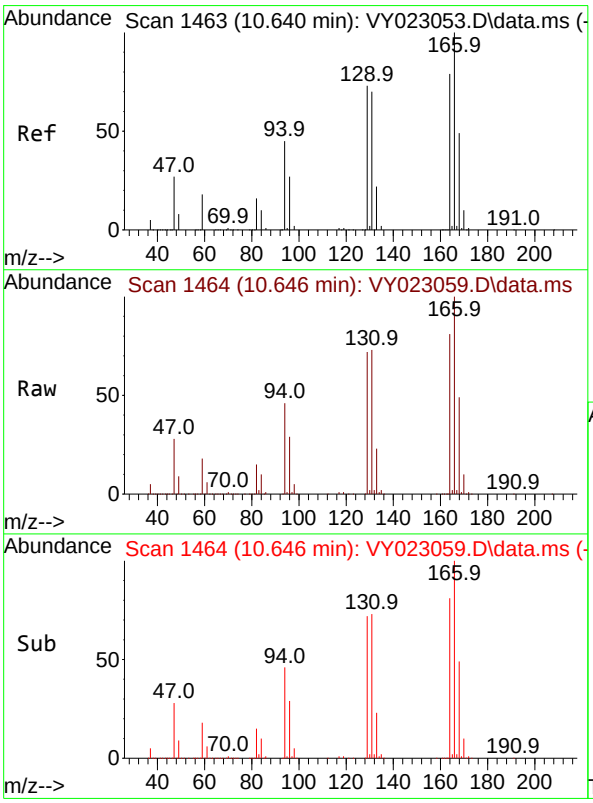
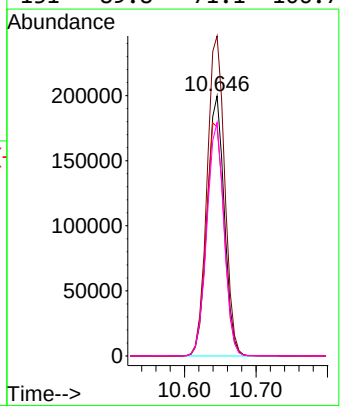
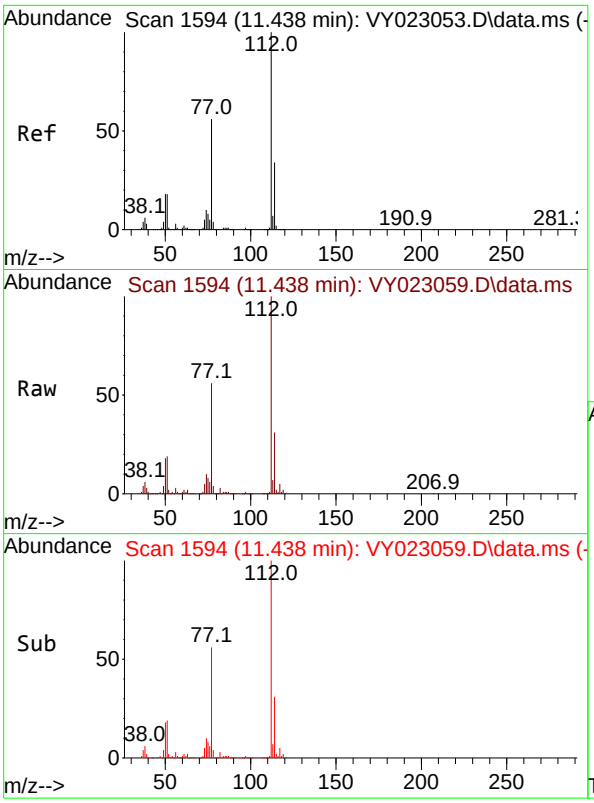


#64
Tetrachloroethene
Concen: 50.070 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:164 Resp: 331676

Ion	Ratio	Lower	Upper
164	100		
166	123.1	101.1	151.7
129	88.1	74.0	111.0
131	89.8	71.1	106.7

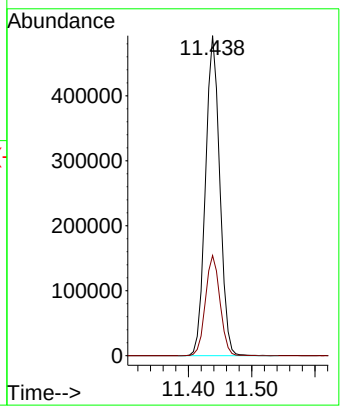




#65
Chlorobenzene
Concen: 48.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:112 Resp: 77362

Ion	Ratio	Lower	Upper
112	100		
114	31.3	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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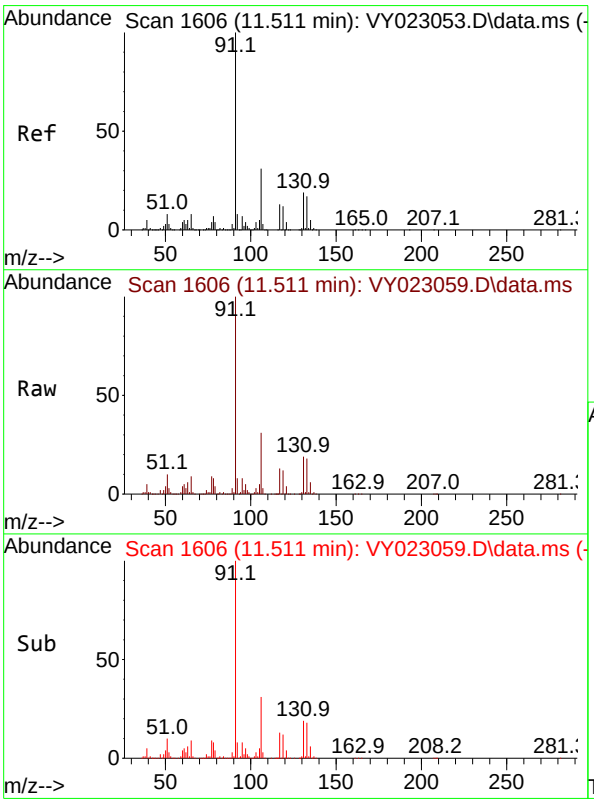
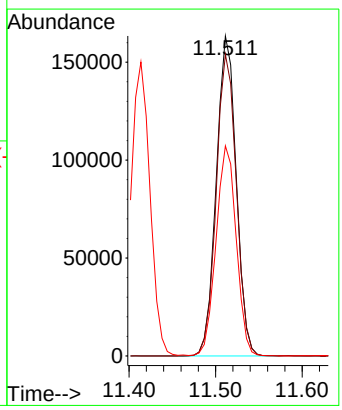
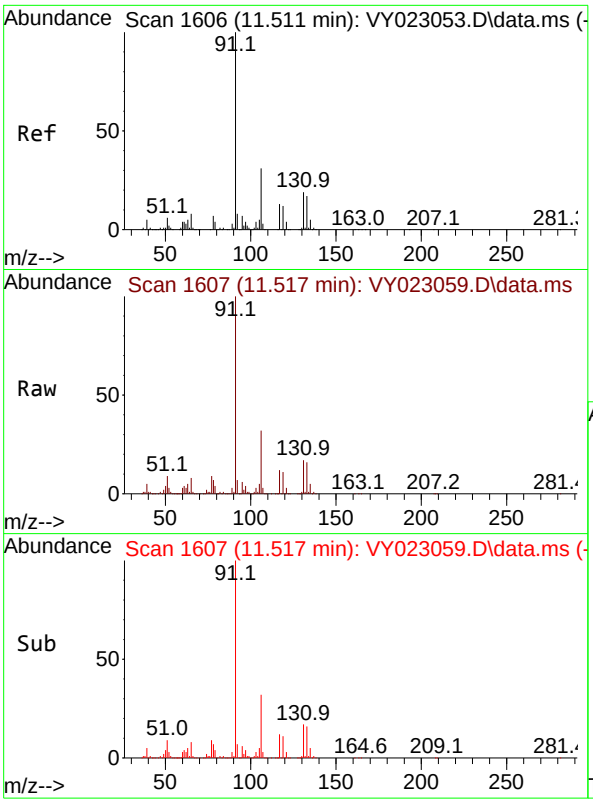


#66
1,1,1,2-Tetrachloroethane
Concen: 48.113 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:131 Resp: 261298

Ion	Ratio	Lower	Upper
131	100		
133	95.3	46.9	140.6
119	66.5	33.2	99.6

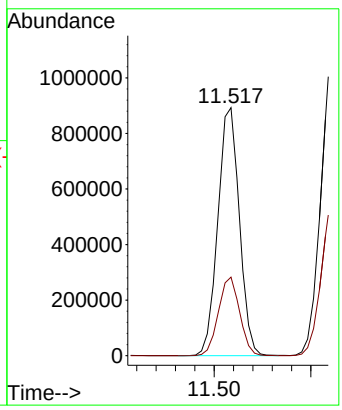




#67
Ethyl Benzene
Concen: 49.987 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 137652

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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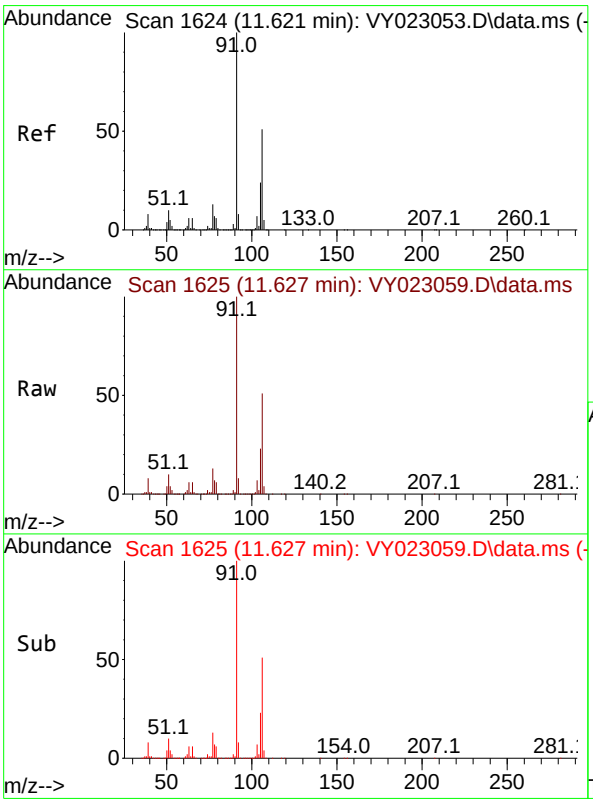
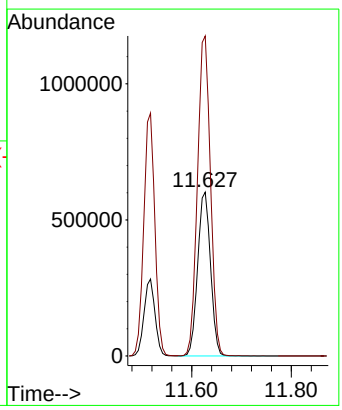
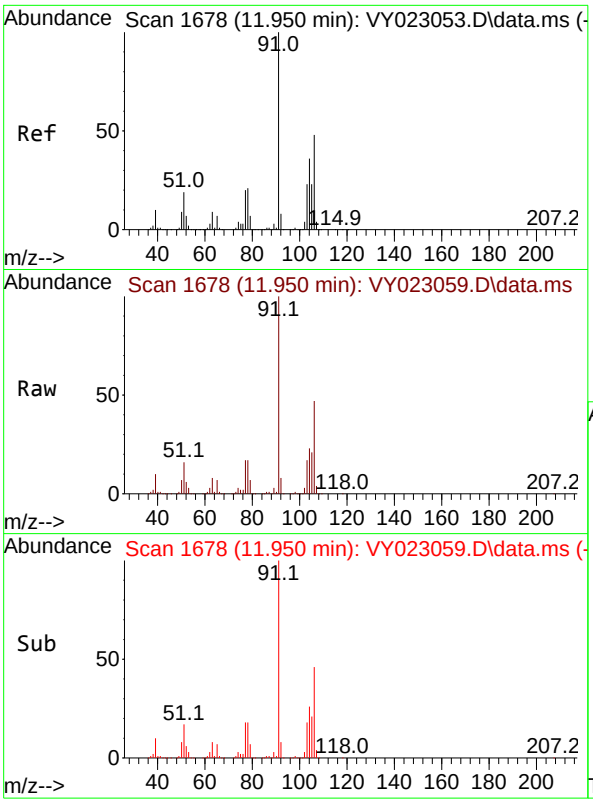


#68
m/p-Xylenes
Concen: 99.994 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:106 Resp: 1075458

Ion	Ratio	Lower	Upper
106	100		
91	197.3	158.6	238.0





#69
o-Xylene
Concen: 50.162 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:106 Resp: 50529

Ion	Ratio	Lower	Upper
106	100		
91	208.1	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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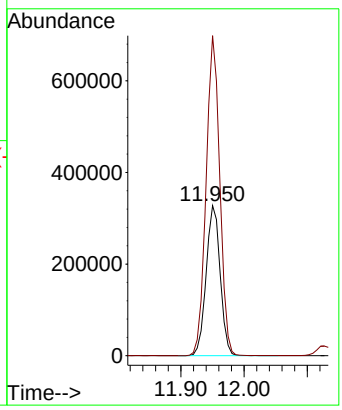
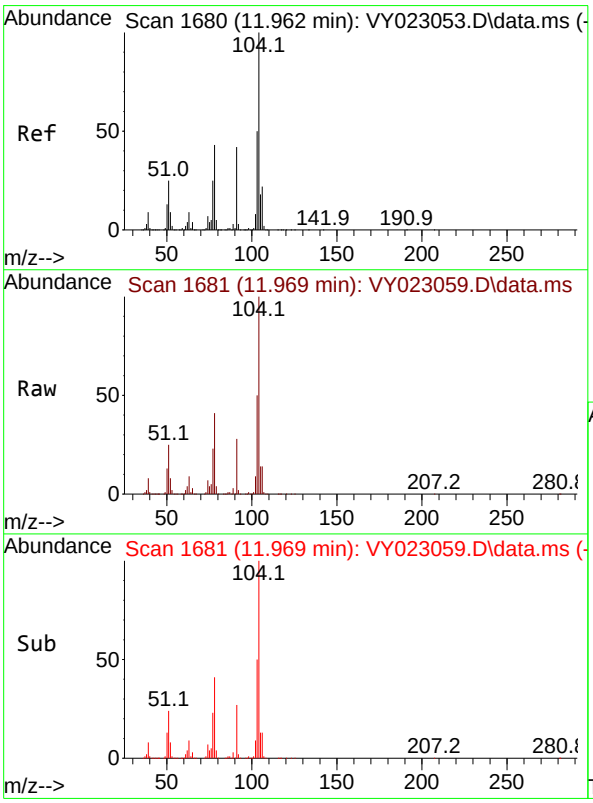
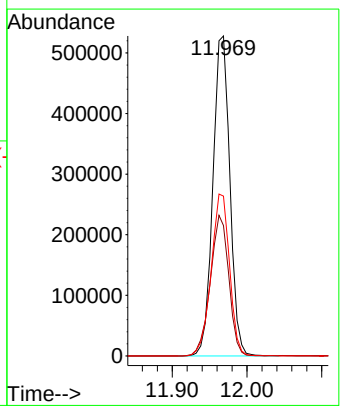


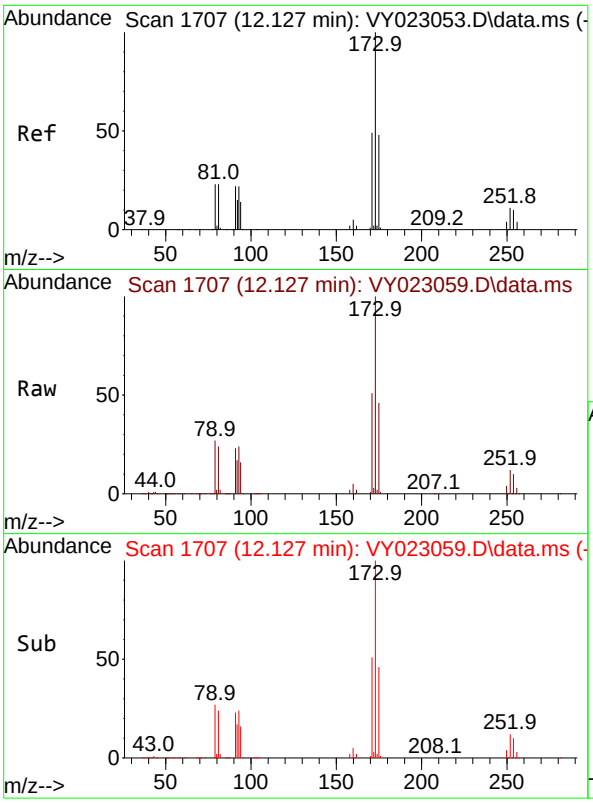


#70
Styrene
Concen: 50.595 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:104 Resp: 833474

Ion	Ratio	Lower	Upper
104	100		
78	47.8	38.5	57.7
103	54.9	43.7	65.5

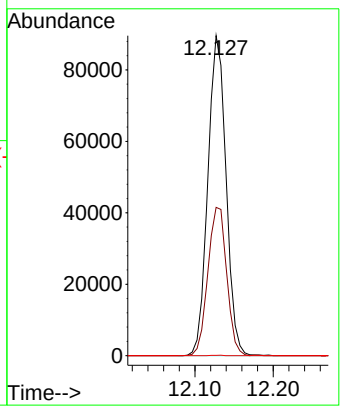




#71
Bromoform
Concen: 45.557 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:173 Resp: 14460

Ion	Ratio	Lower	Upper
173	100		
175	47.9	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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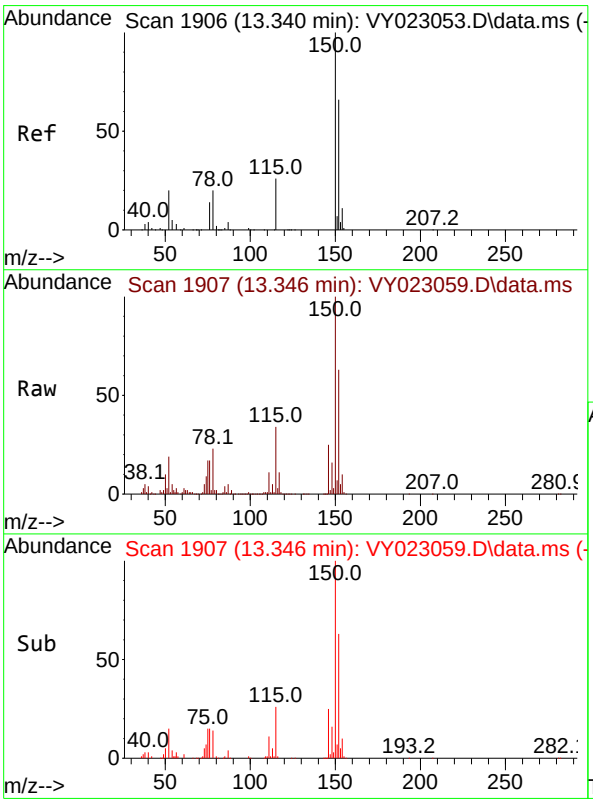
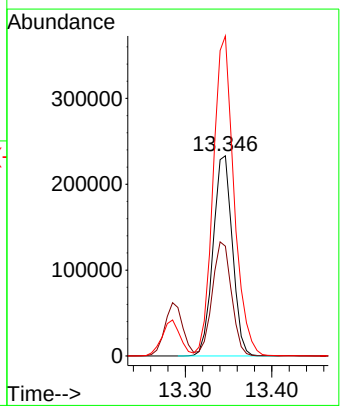
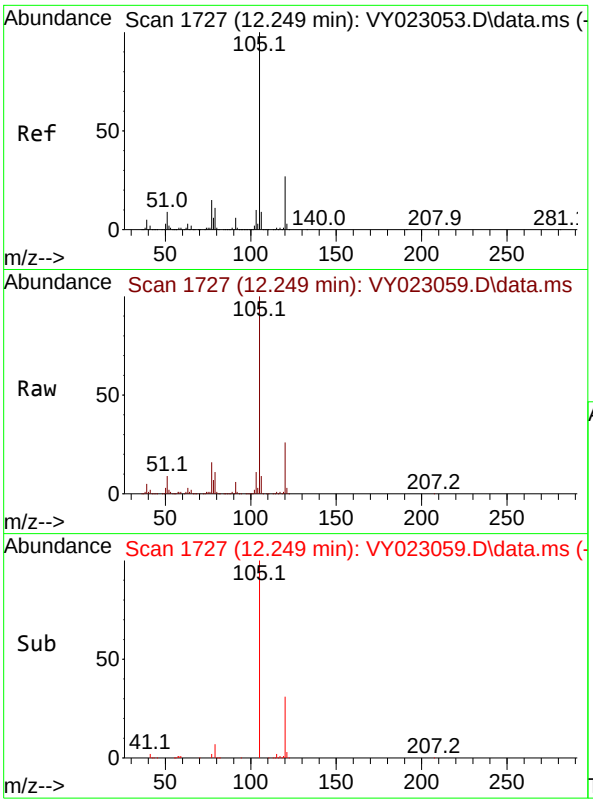


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:152 Resp: 361154

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.6
150	172.3	0.0	348.0

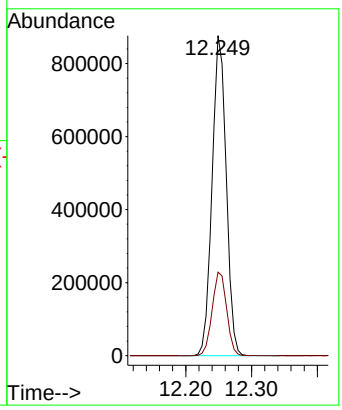




#73
Isopropylbenzene
Concen: 51.327 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 130832

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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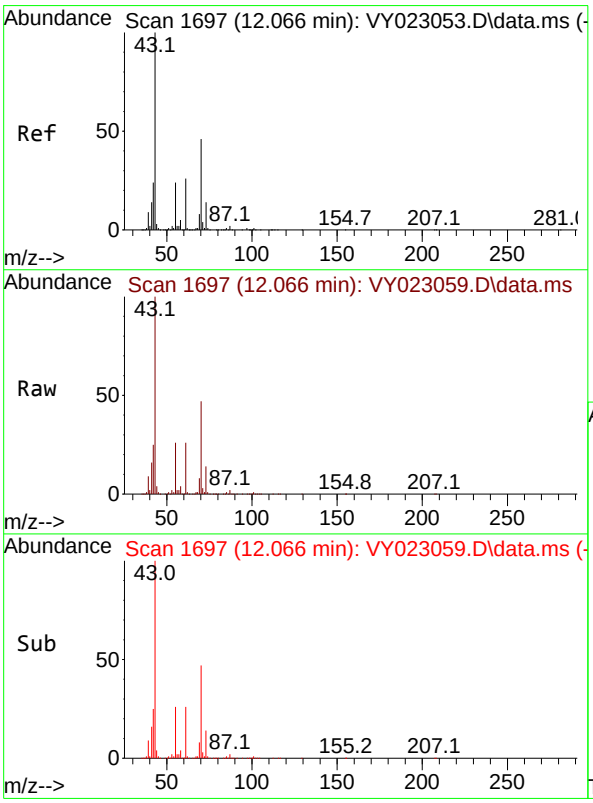
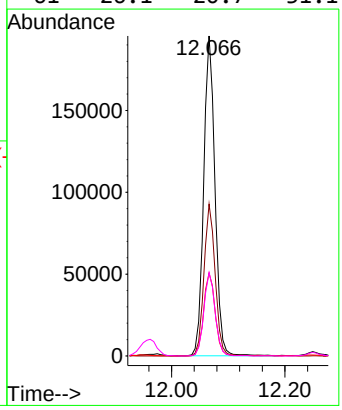
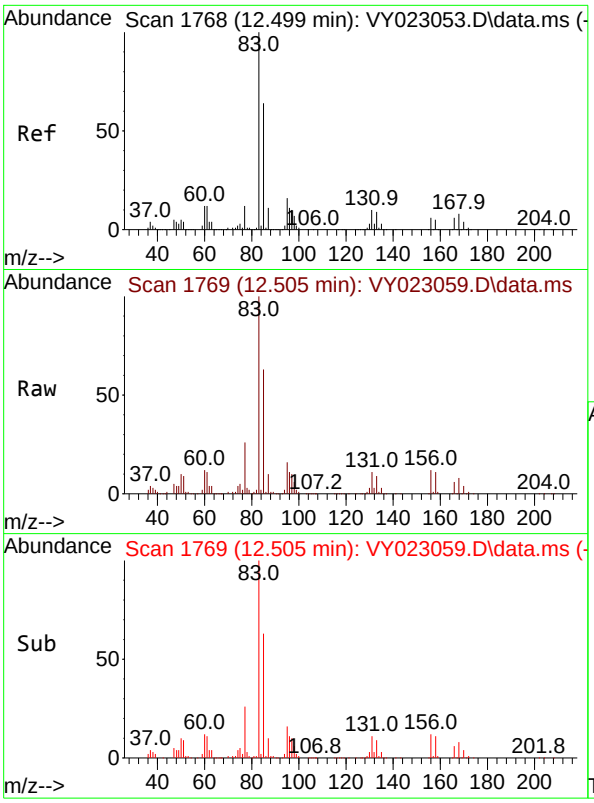


#74
N-amyl acetate
Concen: 49.922 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 269858

Ion	Ratio	Lower	Upper
43	100		
70	47.1	37.5	56.3
55	26.7	20.7	31.1
61	26.1	20.7	31.1

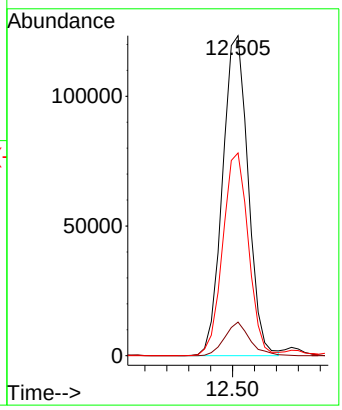




#75
1,1,2,2-Tetrachloroethane
Concen: 45.905 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 19979

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	63.6	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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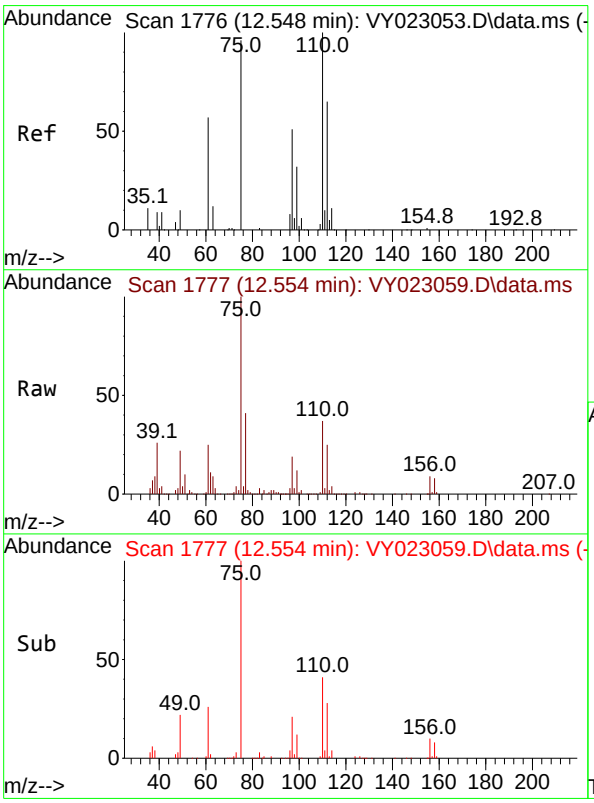
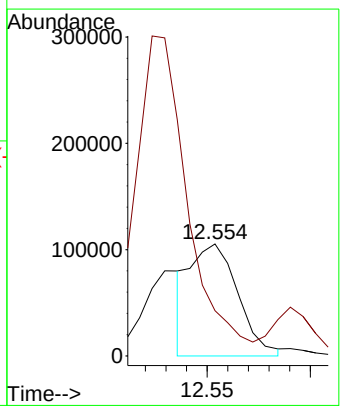
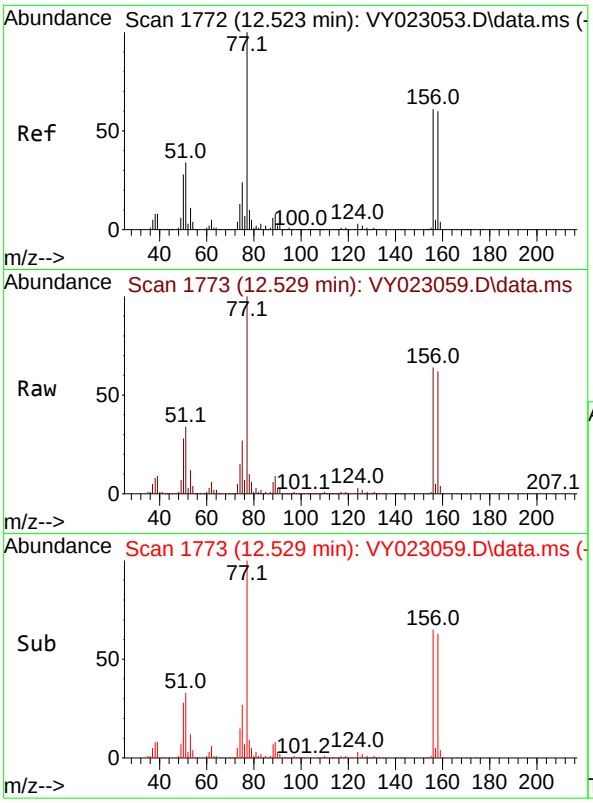


#76
1,2,3-Trichloropropane
Concen: 48.654 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 169584

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

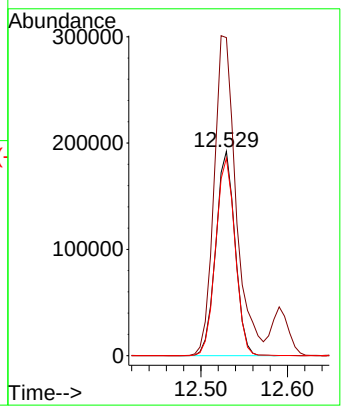




#77
Bromobenzene
Concen: 48.794 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:156 Resp: 29672

Ion	Ratio	Lower	Upper
156	100		
77	179.1	88.1	264.4
158	97.6	48.0	144.0



Instrument :
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ClientSampleId :
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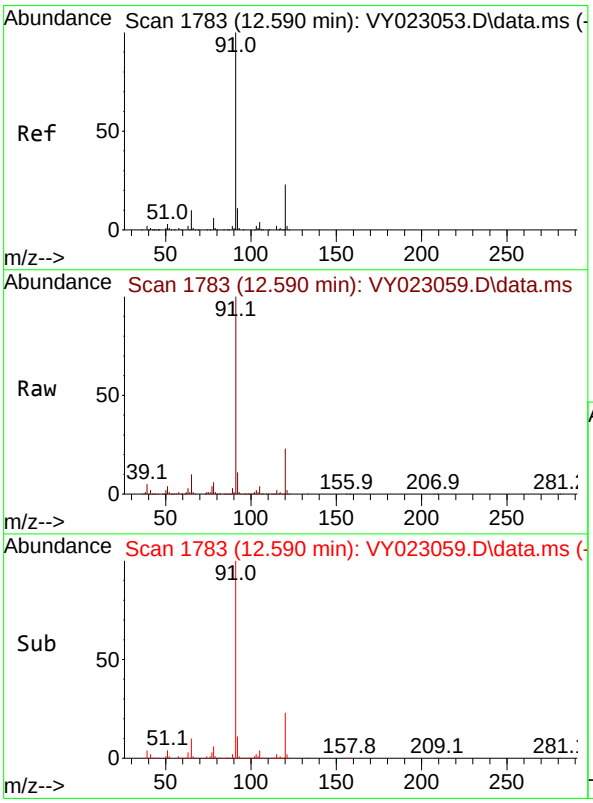
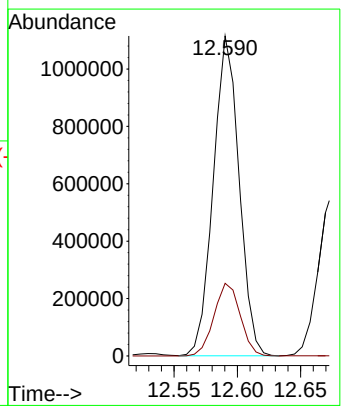
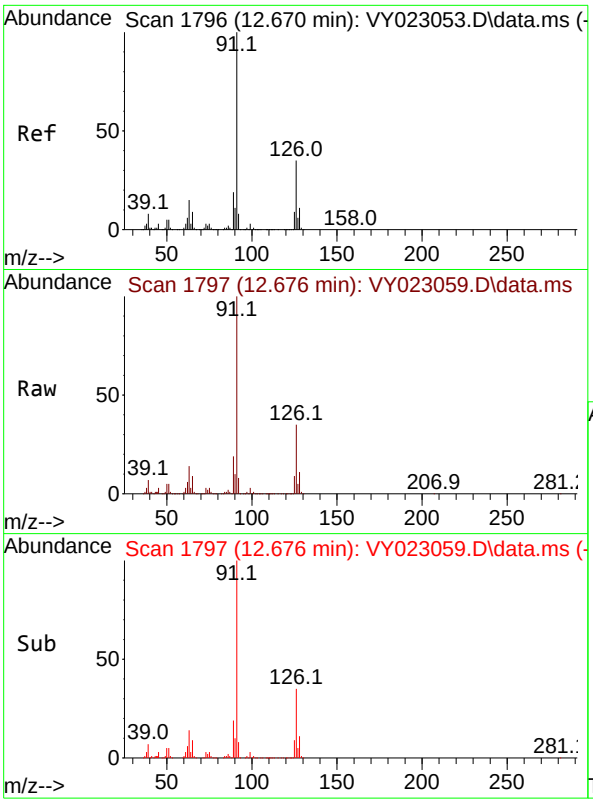


#78
n-propylbenzene
Concen: 52.061 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 1579912

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5





#79
2-Chlorotoluene
Concen: 50.703 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 88161

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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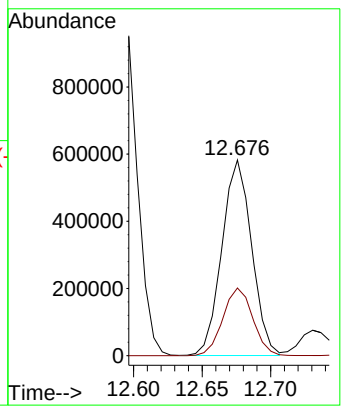
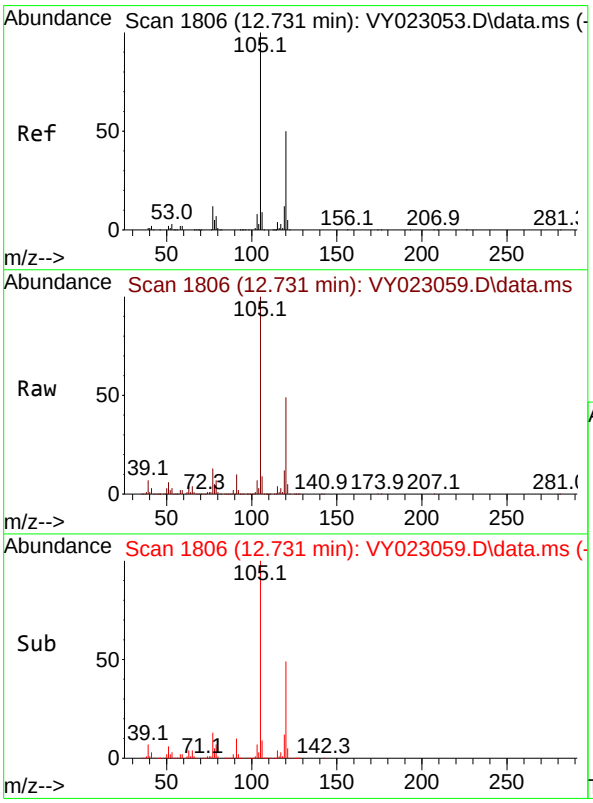
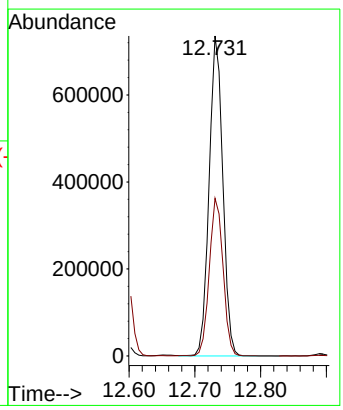


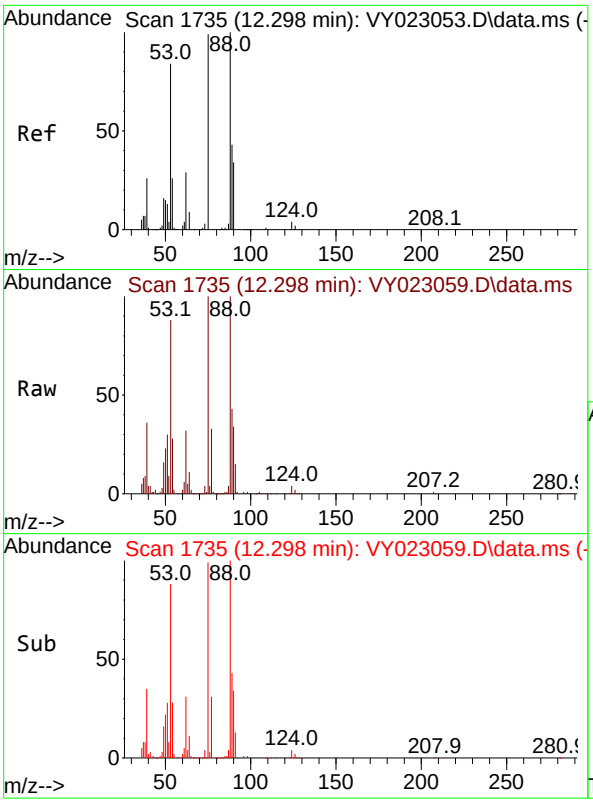


#80
1,3,5-Trimethylbenzene
Concen: 51.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1062229

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4

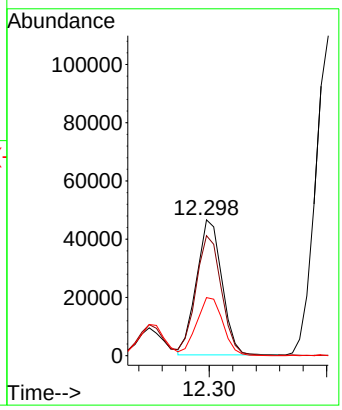




#81
trans-1,4-Dichloro-2-butene
Concen: 48.354 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 6962

Ion	Ratio	Lower	Upper
75	100		
53	89.4	70.8	106.2
89	44.8	38.1	57.1



Instrument :
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ClientSampleId :
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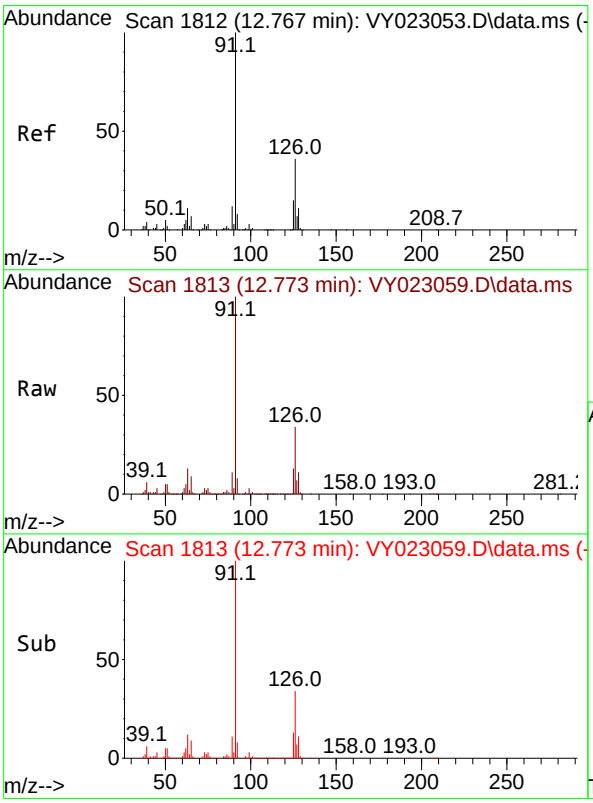
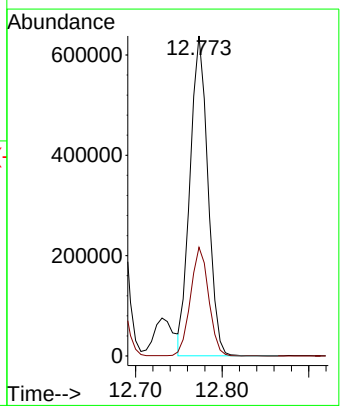
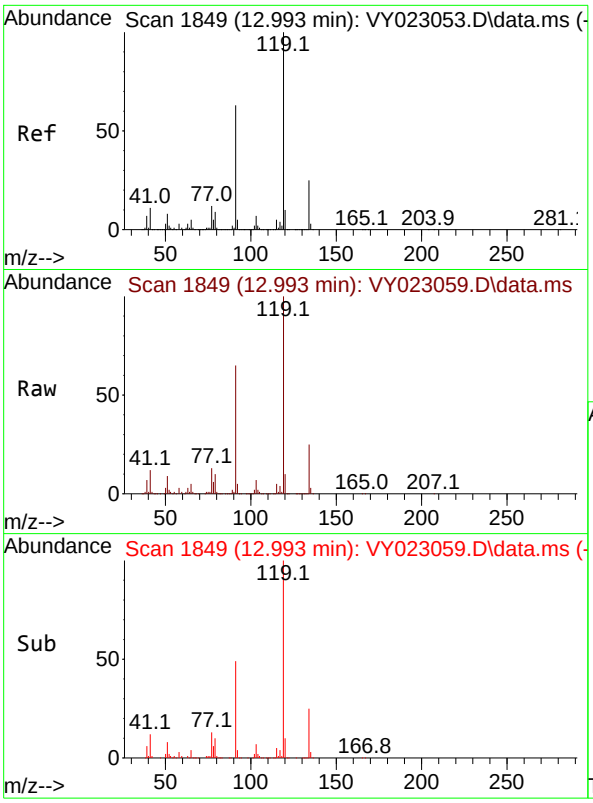


#82
4-Chlorotoluene
Concen: 50.659 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 913772

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	52.0

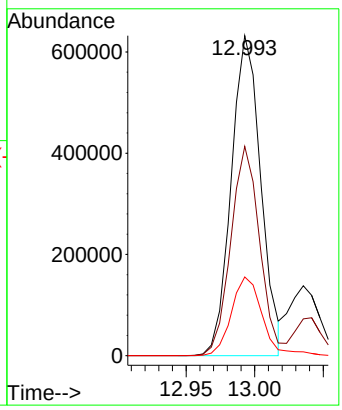




#83
tert-Butylbenzene
Concen: 51.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:119 Resp: 95024

Ion	Ratio	Lower	Upper
119	100		
91	64.3	31.6	94.8
134	25.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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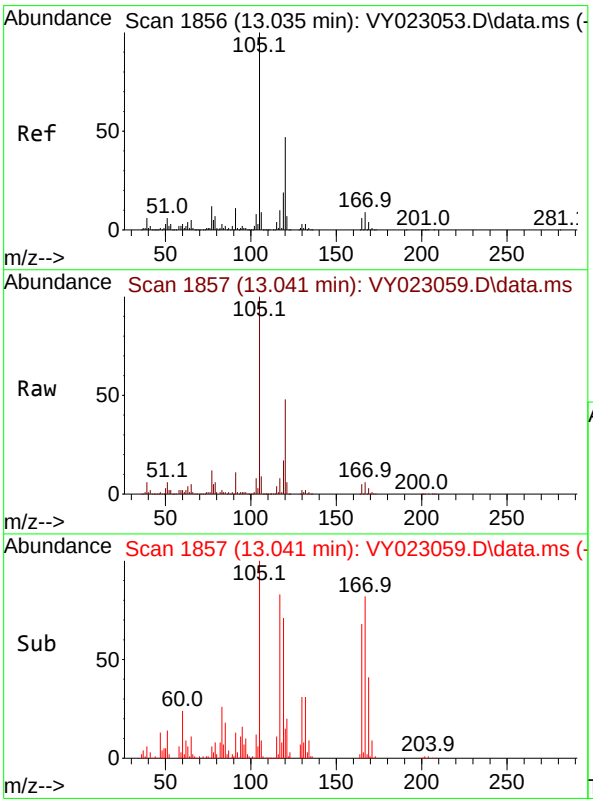
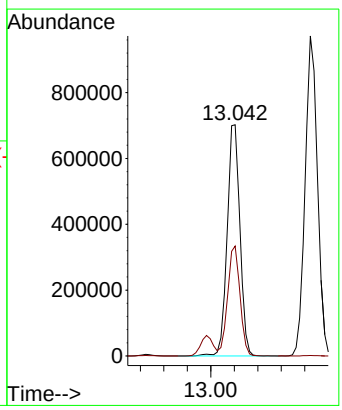
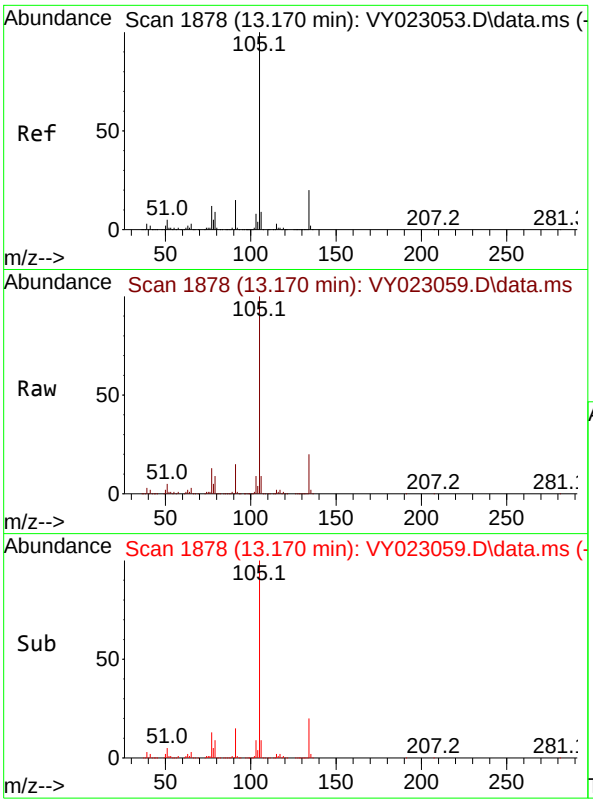


#84
1,2,4-Trimethylbenzene
Concen: 51.723 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1060687

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.0	69.0





#85
sec-Butylbenzene
Concen: 51.748 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 141436

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.2	30.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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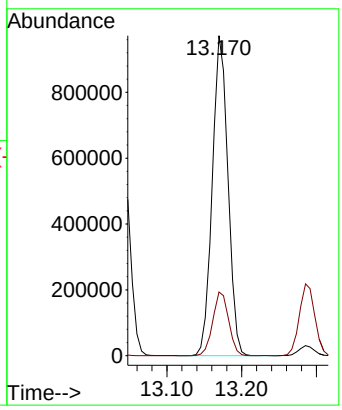
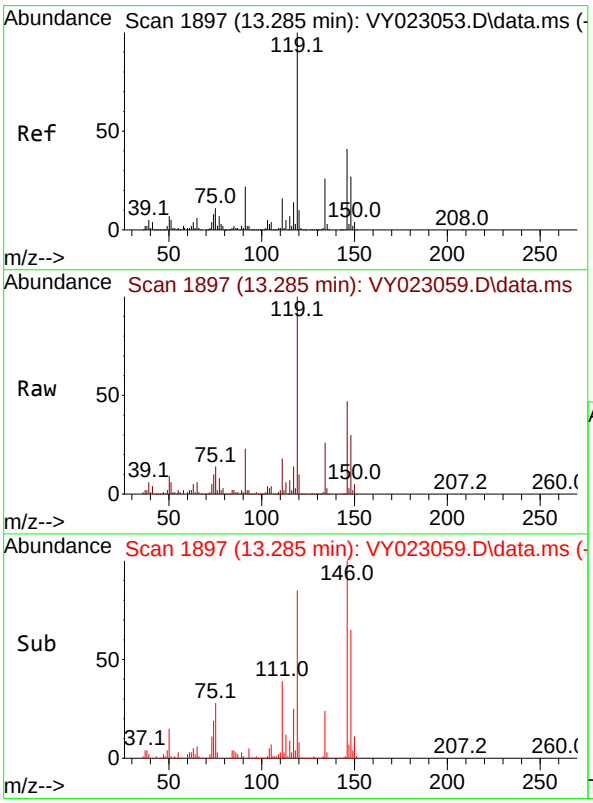
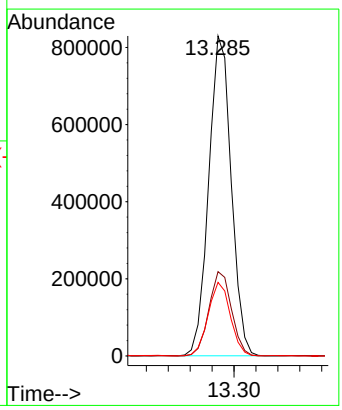


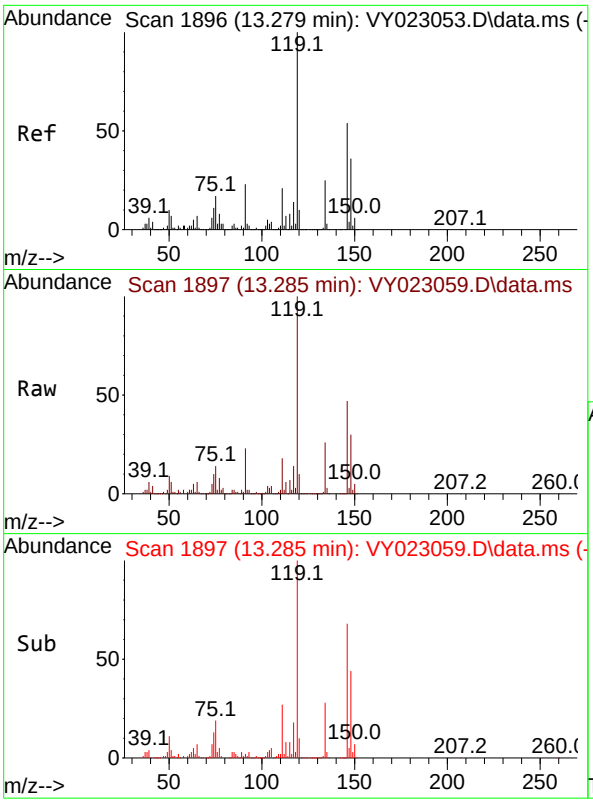


#86
p-Isopropyltoluene
Concen: 52.130 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:119 Resp: 1182656

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.6
91	22.7	11.3	33.8

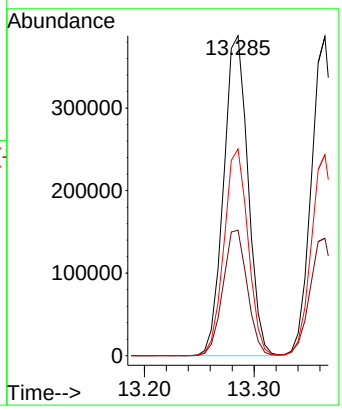




#87
1,3-Dichlorobenzene
Concen: 49.866 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 59800

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.7
148	63.7	32.5	97.5



Instrument :
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ClientSampleId :
VSTDCCC050

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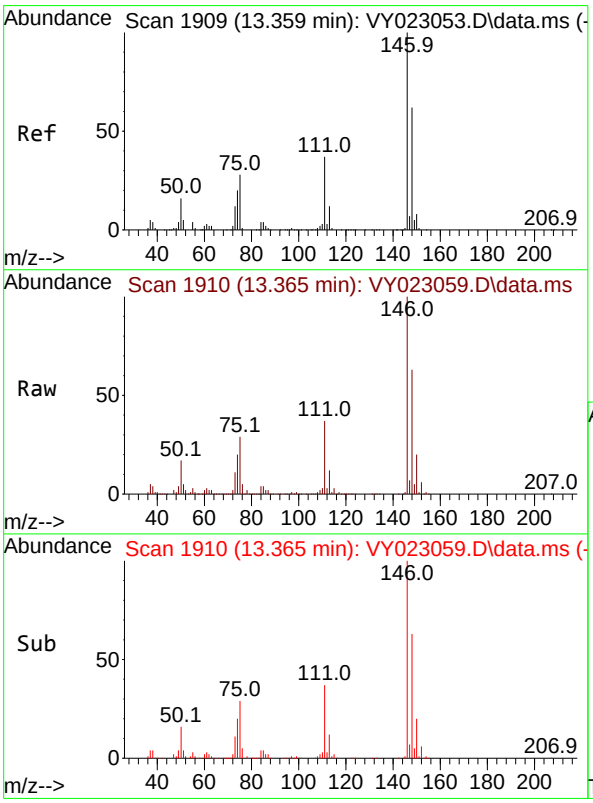
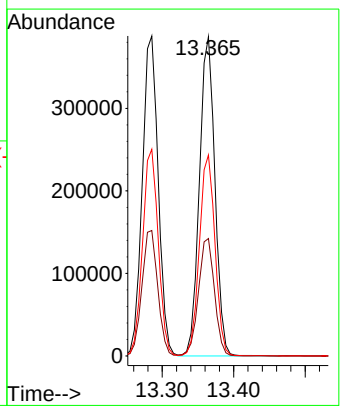
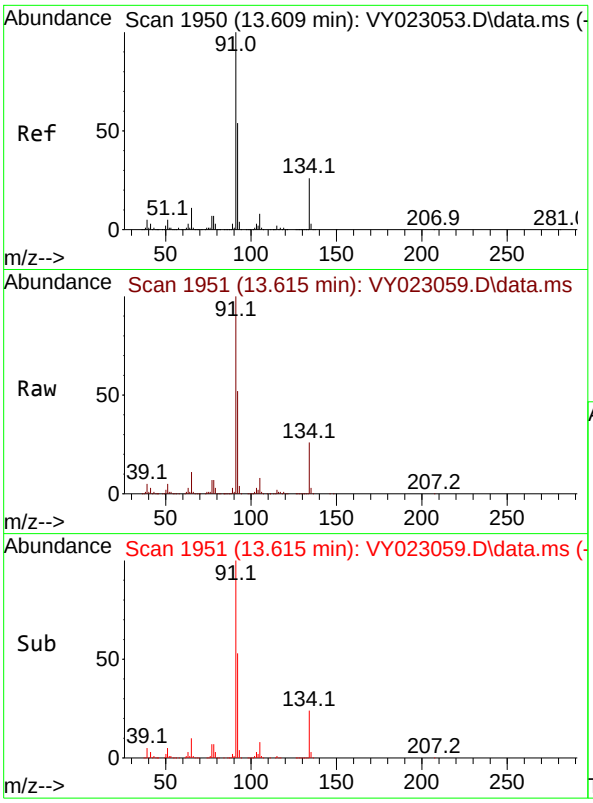


#88
1,4-Dichlorobenzene
Concen: 48.956 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 582375

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.1
148	63.5	31.6	94.7

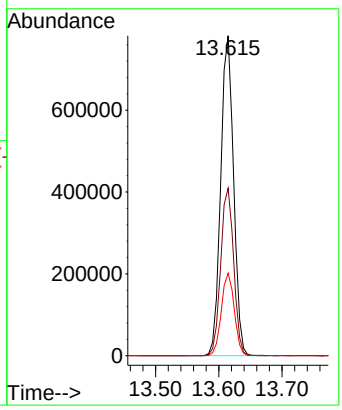




#89
n-Butylbenzene
Concen: 52.737 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 109886

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.7
134	25.9	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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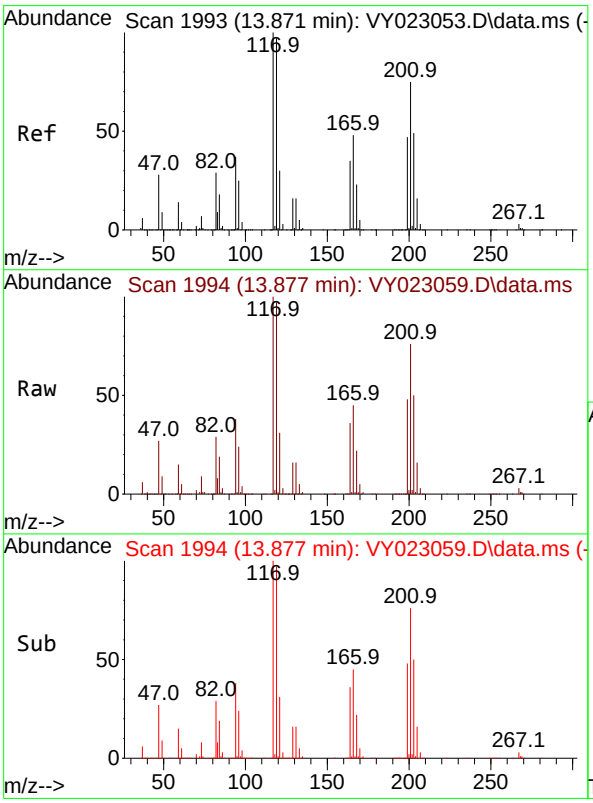
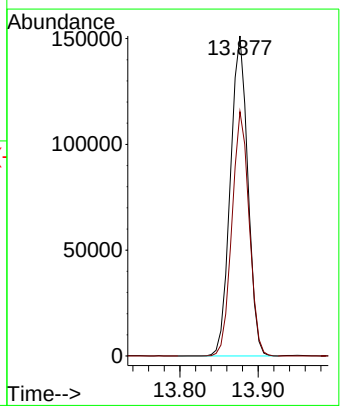
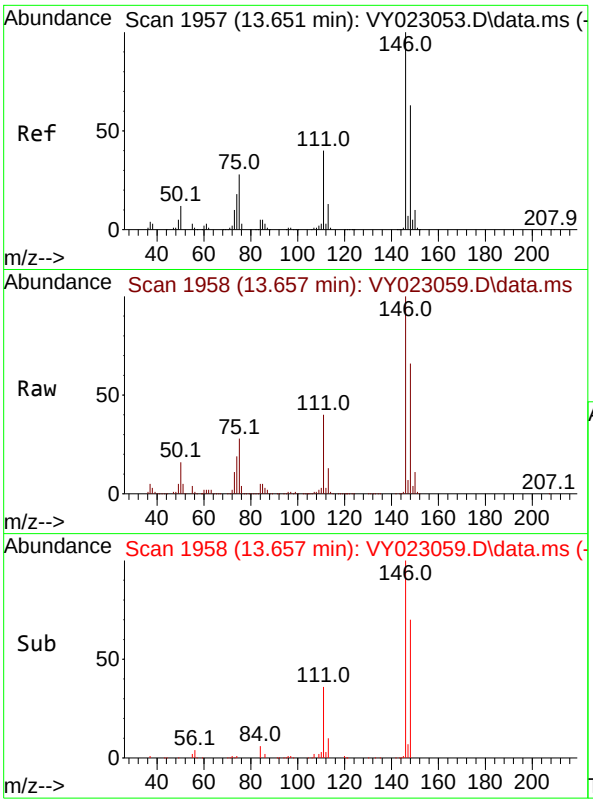


#90
Hexachloroethane
Concen: 50.439 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 234252

Ion	Ratio	Lower	Upper
117	100		
201	75.0	38.4	115.1

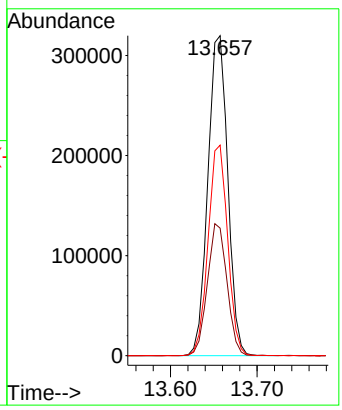




#91
1,2-Dichlorobenzene
Concen: 48.490 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 50997

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.8
148	64.7	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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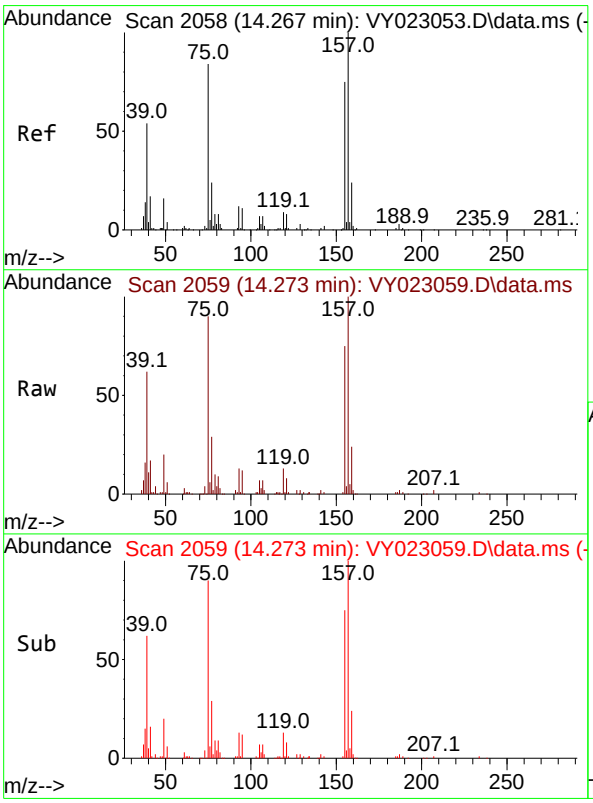
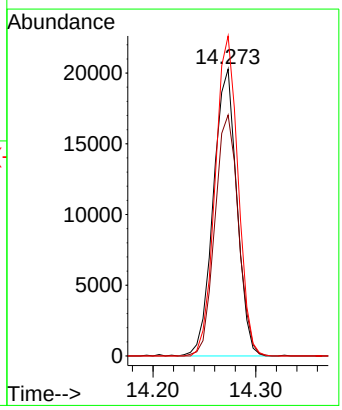
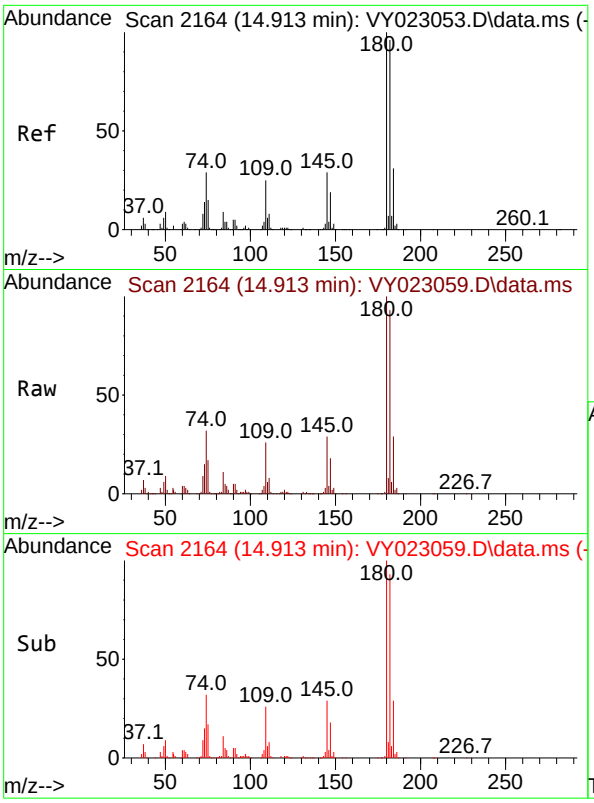


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.451 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 32155

Ion	Ratio	Lower	Upper
75	100		
155	83.9	43.9	131.6
157	108.4	57.2	171.6

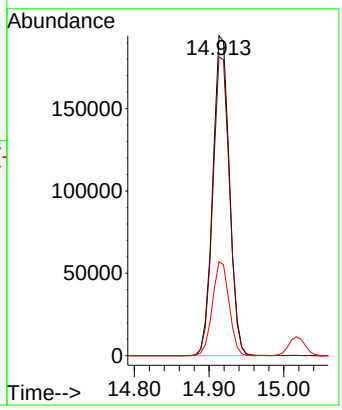




#93
1,2,4-Trichlorobenzene
Concen: 48.250 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:180 Resp: 30008

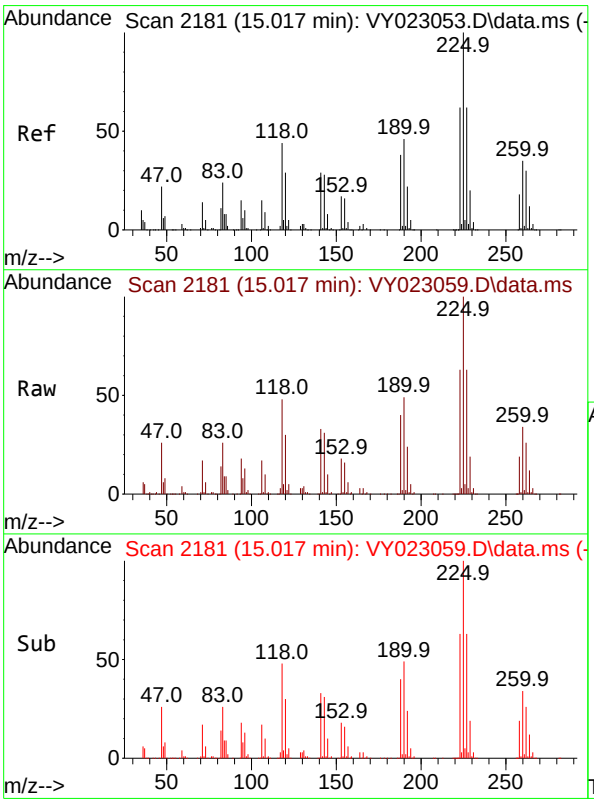
Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.8	140.4
145	29.5	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

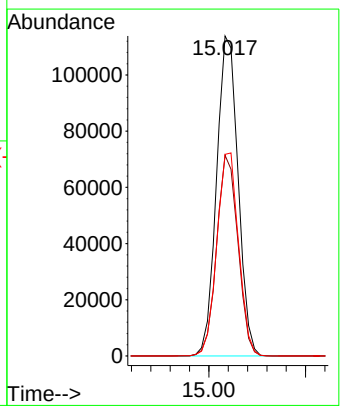
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

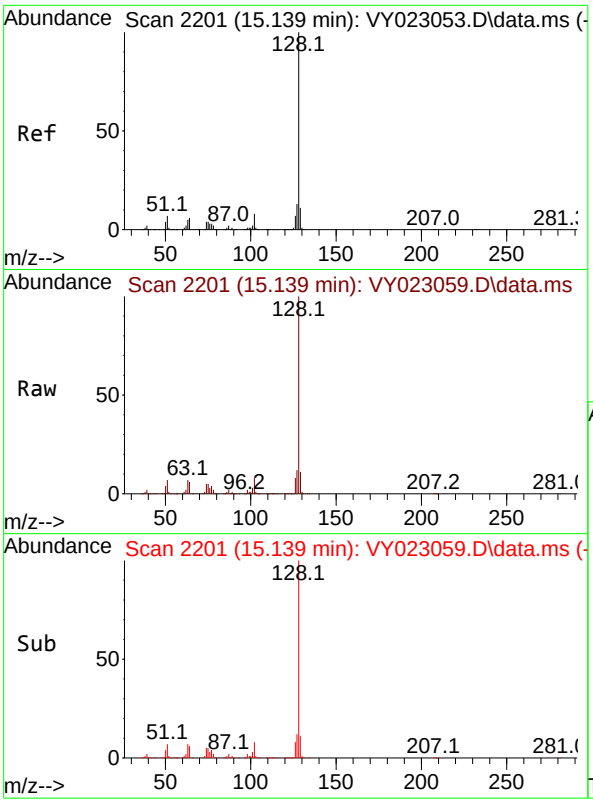


#94
Hexachlorobutadiene
Concen: 48.048 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:225 Resp: 175599

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.3	93.8
227	64.2	31.5	94.5

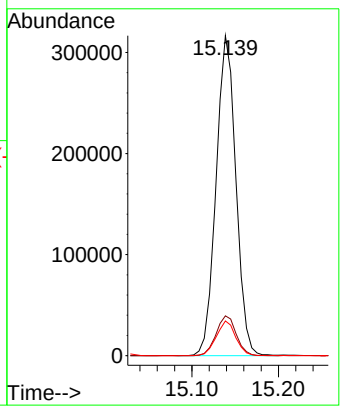




#95
Naphthalene
Concen: 47.413 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:128 Resp: 50283

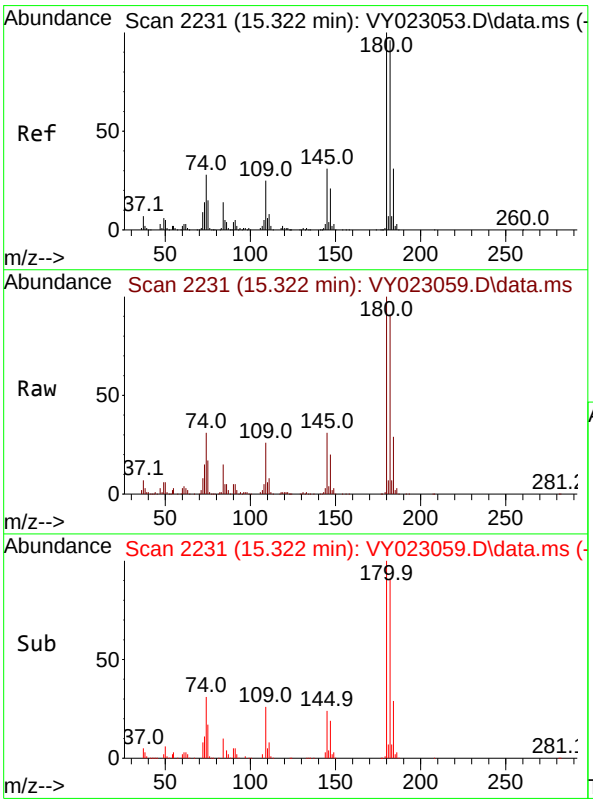
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.7	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

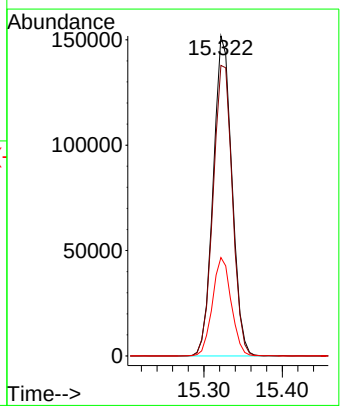
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.023 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:180 Resp: 252008

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.9	143.7
145	30.9	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	99	0.00
2	T	Dichlorodifluoromethane	0.408	0.335	17.9	95	0.00
3	P	Chloromethane	0.661	0.620	6.2	101	0.00
4	C	Vinyl Chloride	0.817	0.788	3.5#	102	0.00
5	T	Bromomethane	0.610	0.575	5.7	106	0.00
6	T	Chloroethane	0.543	0.535	1.5	103	0.00
7	T	Trichlorofluoromethane	0.994	0.944	5.0	100	0.00
8	T	Diethyl Ether	0.263	0.239	9.1	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.465	5.1	100	0.00
10	T	Methyl Iodide	0.529	0.532	-0.6	96	0.00
11	T	Tert butyl alcohol	0.033	0.027	18.2	86	0.00
12	CM	1,1-Dichloroethene	0.482	0.459	4.8#	99	0.00
13	T	Acrolein	0.048	0.040	16.7	88	0.00
14	T	Allyl chloride	0.709	0.686	3.2	99	0.00
15	T	Acrylonitrile	0.107	0.097	9.3	91	0.00
16	T	Acetone	0.103	0.105	-1.9	101	0.00
17	T	Carbon Disulfide	1.571	1.497	4.7	100	0.00
18	T	Methyl Acetate	0.307	0.256	16.6	79	0.00
19	T	Methyl tert-butyl Ether	1.249	1.158	7.3	93	0.00
20	T	Methylene Chloride	0.620	0.519	16.3	101	0.00
21	T	trans-1,2-Dichloroethene	0.541	0.526	2.8	100	0.00
22	T	Diisopropyl ether	1.541	1.501	2.6	99	0.00
23	T	Vinyl Acetate	0.852	0.823	3.4	97	0.00
24	P	1,1-Dichloroethane	0.942	0.913	3.1	99	0.00
25	T	2-Butanone	0.140	0.129	7.9	90	0.00
26	T	2,2-Dichloropropane	0.813	0.812	0.1	102	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.597	4.6	98	0.00
28	T	Bromochloromethane	0.374	0.368	1.6	100	0.00
29	T	Tetrahydrofuran	0.087	0.078	10.3	89	0.00
30	C	Chloroform	0.971	0.932	4.0#	98	0.00
31	T	Cyclohexane	0.888	0.821	7.5	100	0.00
32	T	1,1,1-Trichloroethane	0.862	0.841	2.4	100	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.476	0.2	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.299	0.301	-0.7	101	0.00
36	T	1,1-Dichloropropene	0.445	0.432	2.9	98	0.00
37	T	Ethyl Acetate	0.187	0.169	9.6	89	0.00
38	T	Carbon Tetrachloride	0.483	0.472	2.3	100	0.00
39	T	Methylcyclohexane	0.586	0.575	1.9	100	0.00
40	TM	Benzene	1.370	1.334	2.6	99	0.00
41	T	Methacrylonitrile	0.108	0.098	9.3	88	0.00
42	TM	1,2-Dichloroethane	0.356	0.340	4.5	97	0.00
43	T	Isopropyl Acetate	0.378	0.349	7.7	92	0.00
44	TM	Trichloroethene	0.354	0.344	2.8	99	0.00
45	C	1,2-Dichloropropane	0.315	0.306	2.9#	98	0.00
46	T	Dibromomethane	0.181	0.175	3.3	97	0.00
47	T	Bromodichloromethane	0.466	0.450	3.4	97	0.00
48	T	Methyl methacrylate	0.181	0.165	8.8	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	90	0.00
50	S	Toluene-d8	1.169	1.200	-2.7	104	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.181	7.2	90	0.00
52	CM	Toluene	0.870	0.864	0.7#	99	0.00
53	T	t-1,3-Dichloropropene	0.422	0.410	2.8	96	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.485	2.8	97	0.00
55	T	1,1,2-Trichloroethane	0.242	0.224	7.4	93	0.00
56	T	Ethyl methacrylate	0.310	0.299	3.5	92	0.00
57	T	1,3-Dichloropropane	0.411	0.389	5.4	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.144	1.4	92	0.00
59	T	2-Hexanone	0.133	0.129	3.0	93	0.00
60	T	Dibromochloromethane	0.320	0.300	6.3	93	0.00
61	T	1,2-Dibromoethane	0.228	0.213	6.6	93	0.00
62	S	4-Bromofluorobenzene	0.376	0.376	0.0	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.446	0.447	-0.2	101	0.00
65	PM	Chlorobenzene	1.079	1.043	3.3	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.352	3.8	96	0.00
67	C	Ethyl Benzene	1.856	1.856	0.0	98	0.00
68	T	m/p-Xylenes	0.725	0.725	0.0	100	0.00
69	T	o-Xylene	0.679	0.681	-0.3	98	0.00
70	T	Styrene	1.110	1.123	-1.2	99	0.00
71	P	Bromoform	0.214	0.195	8.9	90	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	3.529	3.623	-2.7	99	0.00
74	T	N-amyl acetate	0.748	0.747	0.1	93	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.553	8.3	90	0.00
76	T	1,2,3-Trichloropropane	0.483	0.470	2.7	84	0.00
77	T	Bromobenzene	0.842	0.822	2.4	95	0.00
78	T	n-propylbenzene	4.201	4.375	-4.1	99	0.00
79	T	2-Chlorotoluene	2.407	2.441	-1.4	98	0.00
80	T	1,3,5-Trimethylbenzene	2.852	2.941	-3.1	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.193	3.0	93	0.00
82	T	4-Chlorotoluene	2.497	2.530	-1.3	98	0.00
83	T	tert-Butylbenzene	2.576	2.631	-2.1	97	0.00
84	T	1,2,4-Trimethylbenzene	2.839	2.937	-3.5	99	0.00
85	T	sec-Butylbenzene	3.784	3.916	-3.5	99	0.00
86	T	p-Isopropyltoluene	3.141	3.275	-4.3	99	0.00
87	T	1,3-Dichlorobenzene	1.660	1.656	0.2	98	0.00
88	T	1,4-Dichlorobenzene	1.647	1.613	2.1	96	0.00
89	T	n-Butylbenzene	2.885	3.043	-5.5	100	0.00
90	T	Hexachloroethane	0.643	0.649	-0.9	98	0.00
91	T	1,2-Dichlorobenzene	1.456	1.412	3.0	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.089	5.3	90	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.831	3.5	94	0.00
94	T	Hexachlorobutadiene	0.506	0.486	4.0	95	0.00
95	T	Naphthalene	1.468	1.392	5.2	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	0.698	5.9	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	99	0.00
2	T	Dichlorodifluoromethane	50.000	41.006	18.0	95	0.00
3	P	Chloromethane	50.000	46.863	6.3	101	0.00
4	C	Vinyl Chloride	50.000	48.195	3.6#	102	0.00
5	T	Bromomethane	50.000	47.148	5.7	106	0.00
6	T	Chloroethane	50.000	49.279	1.4	103	0.00
7	T	Trichlorofluoromethane	50.000	47.512	5.0	100	0.00
8	T	Diethyl Ether	50.000	45.547	8.9	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.444	5.1	100	0.00
10	T	Methyl Iodide	50.000	50.312	-0.6	96	0.00
11	T	Tert butyl alcohol	250.000	209.916	16.0	86	0.00
12	CM	1,1-Dichloroethene	50.000	47.613	4.8#	99	0.00
13	T	Acrolein	250.000	207.313	17.1	88	0.00
14	T	Allyl chloride	50.000	48.395	3.2	99	0.00
15	T	Acrylonitrile	250.000	226.059	9.6	91	0.00
16	T	Acetone	250.000	253.265	-1.3	101	0.00
17	T	Carbon Disulfide	50.000	47.654	4.7	100	0.00
18	T	Methyl Acetate	50.000	41.723	16.6	79	0.00
19	T	Methyl tert-butyl Ether	50.000	46.387	7.2	93	0.00
20	T	Methylene Chloride	50.000	48.260	3.5	101	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.558	2.9	100	0.00
22	T	Diisopropyl ether	50.000	48.705	2.6	99	0.00
23	T	Vinyl Acetate	250.000	241.571	3.4	97	0.00
24	P	1,1-Dichloroethane	50.000	48.480	3.0	99	0.00
25	T	2-Butanone	250.000	229.361	8.3	90	0.00
26	T	2,2-Dichloropropane	50.000	49.978	0.0	102	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.671	4.7	98	0.00
28	T	Bromochloromethane	50.000	49.222	1.6	100	0.00
29	T	Tetrahydrofuran	250.000	224.929	10.0	89	0.00
30	C	Chloroform	50.000	47.994	4.0#	98	0.00
31	T	Cyclohexane	50.000	46.262	7.5	100	0.00
32	T	1,1,1-Trichloroethane	50.000	48.765	2.5	100	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.931	0.1	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	50.227	-0.5	101	0.00
36	T	1,1-Dichloropropene	50.000	48.533	2.9	98	0.00
37	T	Ethyl Acetate	50.000	45.366	9.3	89	0.00
38	T	Carbon Tetrachloride	50.000	48.841	2.3	100	0.00
39	T	Methylcyclohexane	50.000	49.119	1.8	100	0.00
40	TM	Benzene	50.000	48.666	2.7	99	0.00
41	T	Methacrylonitrile	50.000	45.492	9.0	88	0.00
42	TM	1,2-Dichloroethane	50.000	47.637	4.7	97	0.00
43	T	Isopropyl Acetate	50.000	46.179	7.6	92	0.00
44	TM	Trichloroethene	50.000	48.551	2.9	99	0.00
45	C	1,2-Dichloropropane	50.000	48.591	2.8#	98	0.00
46	T	Dibromomethane	50.000	48.268	3.5	97	0.00
47	T	Bromodichloromethane	50.000	48.276	3.4	97	0.00
48	T	Methyl methacrylate	50.000	45.747	8.5	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	905.464	9.5	90	0.00
50	S	Toluene-d8	50.000	51.328	-2.7	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	232.613	7.0	90	0.00
52	CM	Toluene	50.000	49.619	0.8#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	48.623	2.8	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.667	2.7	97	0.00
55	T	1,1,2-Trichloroethane	50.000	46.330	7.3	93	0.00
56	T	Ethyl methacrylate	50.000	48.194	3.6	92	0.00
57	T	1,3-Dichloropropane	50.000	47.351	5.3	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	246.593	1.4	92	0.00
59	T	2-Hexanone	250.000	243.235	2.7	93	0.00
60	T	Dibromochloromethane	50.000	46.904	6.2	93	0.00
61	T	1,2-Dibromoethane	50.000	46.761	6.5	93	0.00
62	S	4-Bromofluorobenzene	50.000	50.020	-0.0	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	50.070	-0.1	101	0.00
65	PM	Chlorobenzene	50.000	48.346	3.3	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.113	3.8	96	0.00
67	C	Ethyl Benzene	50.000	49.987	0.0#	98	0.00
68	T	m/p-Xylenes	100.000	99.994	0.0	100	0.00
69	T	o-Xylene	50.000	50.162	-0.3	98	0.00
70	T	Styrene	50.000	50.595	-1.2	99	0.00
71	P	Bromoform	50.000	45.557	8.9	90	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	51.327	-2.7	99	0.00
74	T	N-amyl acetate	50.000	49.922	0.2	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.905	8.2	90	0.00
76	T	1,2,3-Trichloropropane	50.000	48.654	2.7	84	0.00
77	T	Bromobenzene	50.000	48.794	2.4	95	0.00
78	T	n-propylbenzene	50.000	52.061	-4.1	99	0.00
79	T	2-Chlorotoluene	50.000	50.703	-1.4	98	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.563	-3.1	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.354	3.3	93	0.00
82	T	4-Chlorotoluene	50.000	50.659	-1.3	98	0.00
83	T	tert-Butylbenzene	50.000	51.072	-2.1	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.723	-3.4	99	0.00
85	T	sec-Butylbenzene	50.000	51.748	-3.5	99	0.00
86	T	p-Isopropyltoluene	50.000	52.130	-4.3	99	0.00
87	T	1,3-Dichlorobenzene	50.000	49.866	0.3	98	0.00
88	T	1,4-Dichlorobenzene	50.000	48.956	2.1	96	0.00
89	T	n-Butylbenzene	50.000	52.737	-5.5	100	0.00
90	T	Hexachloroethane	50.000	50.439	-0.9	98	0.00
91	T	1,2-Dichlorobenzene	50.000	48.490	3.0	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.451	5.1	90	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.250	3.5	94	0.00
94	T	Hexachlorobutadiene	50.000	48.048	3.9	95	0.00
95	T	Naphthalene	50.000	47.413	5.2	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	47.023	6.0	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
Instrument ID:	MSVOA_Y	Calibration Date/Time:	08/13/2025 20:00
Lab File ID:	VY023082.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	0.319		-21.81	50
Chloromethane	0.661	0.681	0.1	3.03	50
Vinyl Chloride	0.817	0.849		3.92	50
Bromomethane	0.610	0.682		11.8	50
Chloroethane	0.543	0.596		9.76	50
Trichlorofluoromethane	0.994	0.946		-4.83	50
1,1,2-Trichlorotrifluoroethane	0.490	0.456		-6.94	50
1,1-Dichloroethene	0.482	0.454		-5.81	50
Acetone	0.103	0.082		-20.39	50
Carbon Disulfide	1.571	1.489		-5.22	50
Methyl tert-butyl Ether	1.249	1.220		-2.32	50
Methyl Acetate	0.307	0.326		6.19	50
Methylene Chloride	0.620	0.555		-10.48	50
trans-1,2-Dichloroethene	0.541	0.540		-0.19	50
1,1-Dichloroethane	0.942	0.958	0.1	1.7	50
Cyclohexane	0.888	0.805		-9.35	50
2-Butanone	0.140	0.126		-10	50
Carbon Tetrachloride	0.483	0.456		-5.59	50
cis-1,2-Dichloroethene	0.626	0.633		1.12	50
Bromochloromethane	0.374	0.394		5.35	50
Chloroform	0.971	0.998		2.78	50
1,1,1-Trichloroethane	0.862	0.850		-1.39	50
Methylcyclohexane	0.586	0.544		-7.17	50
Benzene	1.370	1.347		-1.68	50
1,2-Dichloroethane	0.356	0.351		-1.4	50
Trichloroethene	0.354	0.339		-4.24	50
1,2-Dichloropropane	0.315	0.316		0.32	50
Bromodichloromethane	0.466	0.462		-0.86	50
4-Methyl-2-Pentanone	0.195	0.184		-5.64	50
Toluene	0.870	0.868		-0.23	50
t-1,3-Dichloropropene	0.422	0.400		-5.21	50
cis-1,3-Dichloropropene	0.499	0.478		-4.21	50
1,1,2-Trichloroethane	0.242	0.234		-3.31	50
2-Hexanone	0.133	0.122		-8.27	50
Dibromochloromethane	0.320	0.313		-2.19	50
1,2-Dibromoethane	0.228	0.222		-2.63	50
Tetrachloroethene	0.446	0.442		-0.9	50
Chlorobenzene	1.079	1.048	0.3	-2.87	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
Instrument ID:	MSVOA_Y	Calibration Date/Time:	08/13/2025 20:00
Lab File ID:	VY023082.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	1.805		-2.75	50
m/p-Xylenes	0.725	0.711		-1.93	50
o-Xylene	0.679	0.670		-1.33	50
Styrene	1.110	1.135		2.25	50
Bromoform	0.214	0.196	0.1	-8.41	50
Isopropylbenzene	3.529	3.316		-6.04	50
1,1,2,2-Tetrachloroethane	0.603	0.538	0.3	-10.78	50
1,3-Dichlorobenzene	1.660	1.561		-5.96	50
1,4-Dichlorobenzene	1.647	1.530		-7.1	50
1,2-Dichlorobenzene	1.456	1.362		-6.46	50
1,2-Dibromo-3-Chloropropane	0.094	0.085		-9.57	50
1,2,4-Trichlorobenzene	0.861	0.749		-13.01	50
1,2,3-Trichlorobenzene	0.742	0.640		-13.75	50
1,2-Dichloroethane-d4	0.477	0.490		2.72	50
Dibromofluoromethane	0.299	0.298		-0.33	50
Toluene-d8	1.169	1.161		-0.68	50
4-Bromofluorobenzene	0.376	0.379		0.8	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\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 14 03:01:03 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 :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	442938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	730611	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	653170	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	337955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	217167	51.443	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.880%			
35) Dibromofluoromethane	7.628	113	218038	49.874	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.740%			
50) Toluene-d8	10.103	98	848458	49.680	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.360%			
62) 4-Bromofluorobenzene	12.401	95	277110	50.453	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	141385	39.105	ug/l	97
3) Chloromethane	2.068	50	301762	51.531	ug/l	97
4) Vinyl Chloride	2.202	62	376058	51.951	ug/l	98
5) Bromomethane	2.592	94	302117	55.884	ug/l	99
6) Chloroethane	2.732	64	263860	54.827	ug/l	99
7) Trichlorofluoromethane	3.049	101	418963	47.599	ug/l	98
8) Diethyl Ether	3.458	74	110091	47.275	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.811	101	201980	46.513	ug/l	100
10) Methyl Iodide	4.000	142	222876	47.564	ug/l	98
11) Tert butyl alcohol	4.860	59	63163	218.366	ug/l	100
12) 1,1-Dichloroethene	3.787	96	201251	47.150	ug/l	96
13) Acrolein	3.653	56	74262	175.306	ug/l	96
14) Allyl chloride	4.378	41	299858	47.744	ug/l	99
15) Acrylonitrile	5.055	53	229299	242.199	ug/l	99
16) Acetone	3.872	43	181474	198.426	ug/l	95
17) Carbon Disulfide	4.104	76	659370	47.377	ug/l	98
18) Methyl Acetate	4.385	43	144547	53.111	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	540452	48.863	ug/l	98
20) Methylene Chloride	4.610	84	245813	51.824	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	239199	49.867	ug/l	98
22) Diisopropyl ether	6.018	45	695381	50.952	ug/l	98
23) Vinyl Acetate	5.957	43	1789905	237.183	ug/l	100
24) 1,1-Dichloroethane	5.909	63	424330	50.854	ug/l	100
25) 2-Butanone	6.890	43	279864	224.999	ug/l	99
26) 2,2-Dichloropropane	6.884	77	314878	43.733	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	280376	50.561	ug/l	98
28) Bromochloromethane	7.244	49	174333	52.662	ug/l	97
29) Tetrahydrofuran	7.256	42	183892	238.509	ug/l	98
30) Chloroform	7.421	83	441927	51.354	ug/l	98
31) Cyclohexane	7.701	56	356707	45.365	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	376634	49.325	ug/l	99
36) 1,1-Dichloropropene	7.835	75	308332	47.457	ug/l	99
37) Ethyl Acetate	6.982	43	121535	44.531	ug/l	100
38) Carbon Tetrachloride	7.817	117	333012	47.191	ug/l	98
39) Methylcyclohexane	9.103	83	397504	46.461	ug/l	99
40) Benzene	8.079	78	984401	49.159	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 14 03:01:03 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 :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	78770m	50.010	ug/l		
42) 1,2-Dichloroethane	8.158	62	256723	49.294	ug/l		99
43) Isopropyl Acetate	8.195	43	254100	46.064	ug/l		98
44) Trichloroethene	8.859	130	247693	47.865	ug/l		98
45) 1,2-Dichloropropane	9.140	63	231080	50.153	ug/l		100
46) Dibromomethane	9.225	93	131895	49.874	ug/l		96
47) Bromodichloromethane	9.420	83	337254	49.561	ug/l		98
48) Methyl methacrylate	9.219	41	122447	46.388	ug/l		96
49) 1,4-Dioxane	9.225	88	29363	946.941	ug/l		95
51) 4-Methyl-2-Pentanone	9.993	43	670681	235.707	ug/l		99
52) Toluene	10.164	92	634517	49.890	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	292128	47.408	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	348886	47.881	ug/l		99
55) 1,1,2-Trichloroethane	10.566	97	171270	48.399	ug/l		99
56) Ethyl methacrylate	10.438	69	218091	48.164	ug/l		98
57) 1,3-Dichloropropane	10.713	76	294300	49.039	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	563277	263.718	ug/l		100
59) 2-Hexanone	10.755	43	444743	229.542	ug/l		99
60) Dibromochloromethane	10.908	129	228588	48.956	ug/l		99
61) 1,2-Dibromoethane	11.011	107	162363	48.817	ug/l		98
64) Tetrachloroethene	10.646	164	288562	49.476	ug/l		99
65) Chlorobenzene	11.438	112	684648	48.595	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	232459	48.615	ug/l		99
67) Ethyl Benzene	11.517	91	1179134	48.633	ug/l		99
68) m/p-Xylenes	11.627	106	928592	98.062	ug/l		99
69) o-Xylene	11.950	106	437649	49.346	ug/l		98
70) Styrene	11.962	104	741269	51.107	ug/l		99
71) Bromoform	12.127	173	128021	45.809	ug/l	#	97
73) Isopropylbenzene	12.249	105	1120808	46.989	ug/l		99
74) N-amyl acetate	12.066	43	227982	45.070	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	181898	44.662	ug/l		99
76) 1,2,3-Trichloropropane	12.548	75	147973m	45.368	ug/l		
77) Bromobenzene	12.523	156	261080	45.880	ug/l		98
78) n-propylbenzene	12.590	91	1351965	47.608	ug/l		100
79) 2-Chlorotoluene	12.676	91	768315	47.220	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	925355	48.002	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	55874	41.468	ug/l		99
82) 4-Chlorotoluene	12.773	91	801214	47.468	ug/l		100
83) tert-Butylbenzene	12.993	119	810256	46.538	ug/l		99
84) 1,2,4-Trimethylbenzene	13.035	105	927586	48.337	ug/l		100
85) sec-Butylbenzene	13.170	105	1204282	47.086	ug/l		100
86) p-Isopropyltoluene	13.285	119	1019726	48.033	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	527390	46.997	ug/l		98
88) 1,4-Dichlorobenzene	13.359	146	517037	46.447	ug/l		99
89) n-Butylbenzene	13.615	91	926009	47.492	ug/l		99
90) Hexachloroethane	13.877	117	207292	47.698	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	460225	46.764	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	28670	45.213	ug/l		95
93) 1,2,4-Trichlorobenzene	14.913	180	253171	43.501	ug/l		99
94) Hexachlorobutadiene	15.017	225	143600	41.989	ug/l		98
95) Naphthalene	15.139	128	459045	46.256	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	216348	43.140	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 14 03:01:03 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 :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

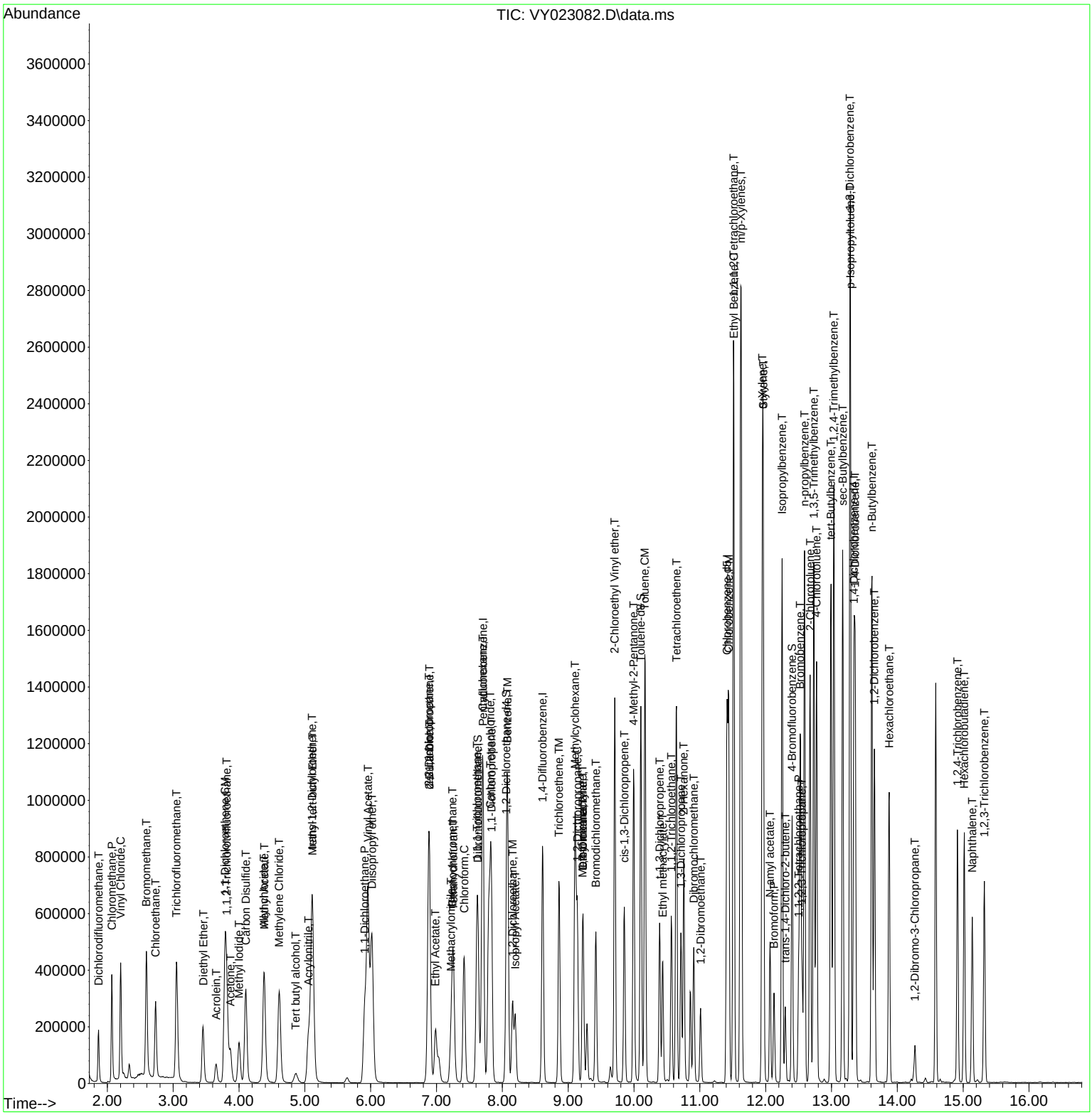
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

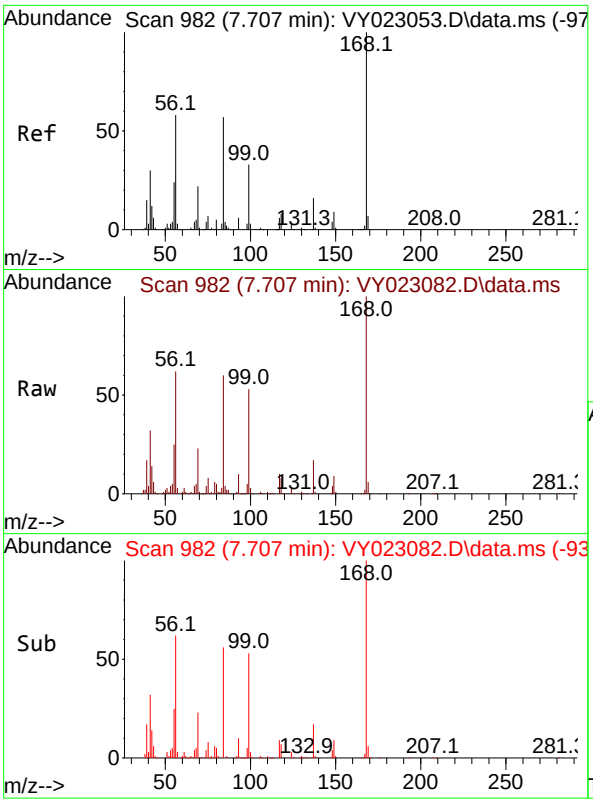
Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

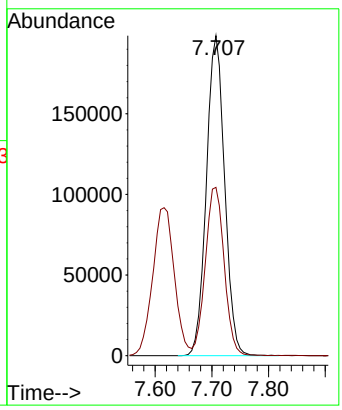




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:168 Resp: 44293

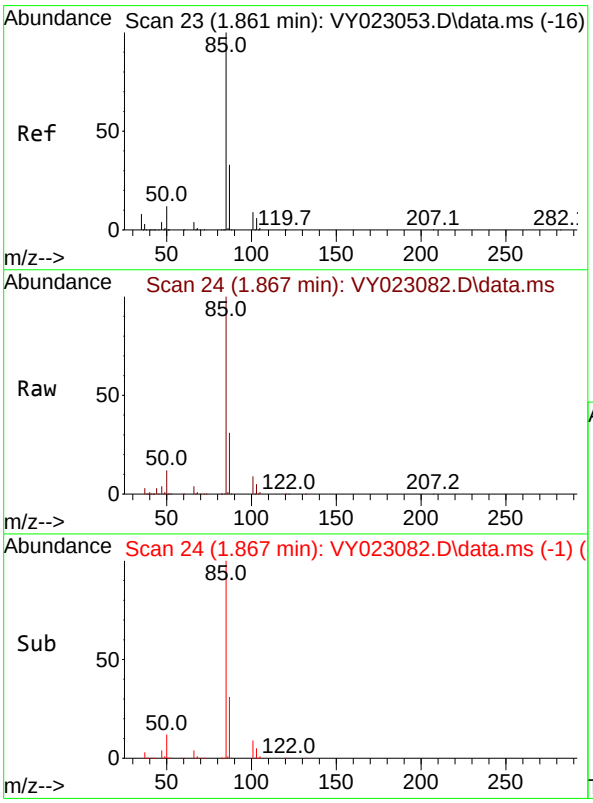
Ion	Ratio	Lower	Upper
168	100		
99	52.5	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

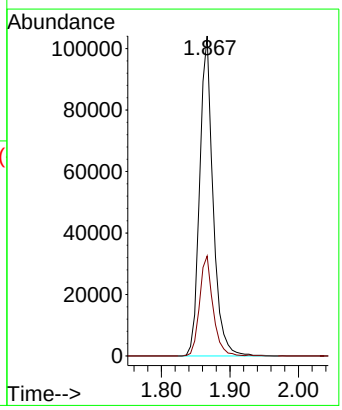
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

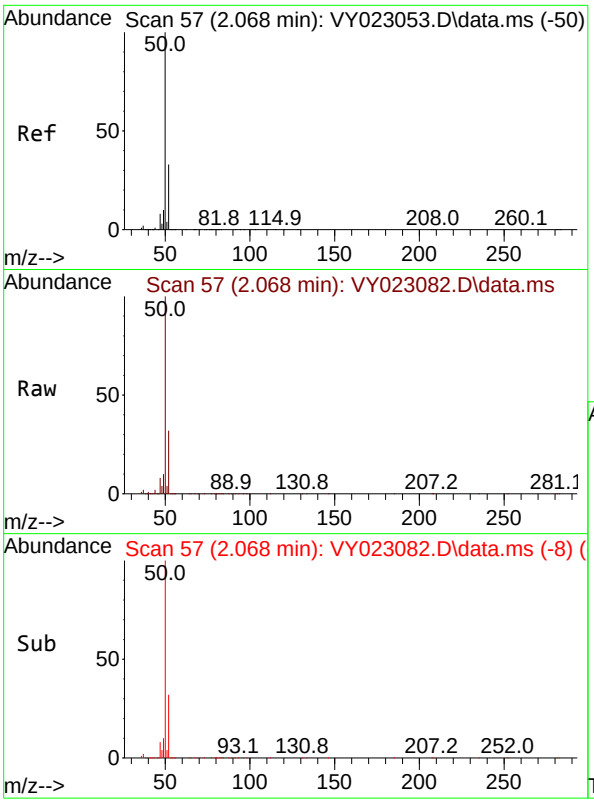


#2
Dichlorodifluoromethane
Concen: 39.105 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 85 Resp: 141385

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.6	49.8





#3
Chloromethane
Concen: 51.531 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 50 Resp: 30176

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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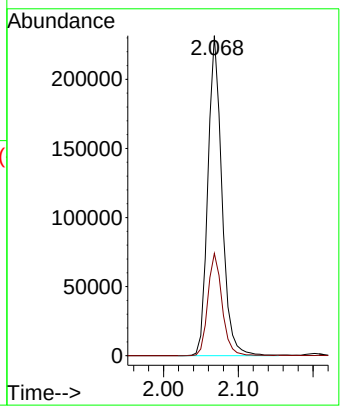
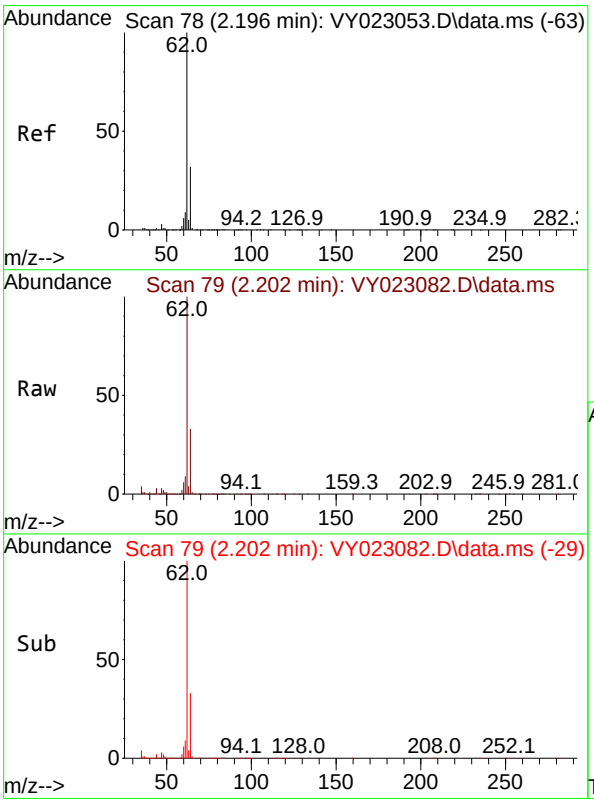
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

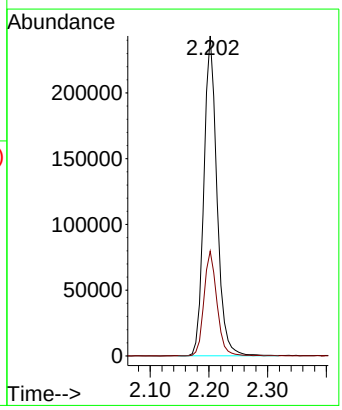


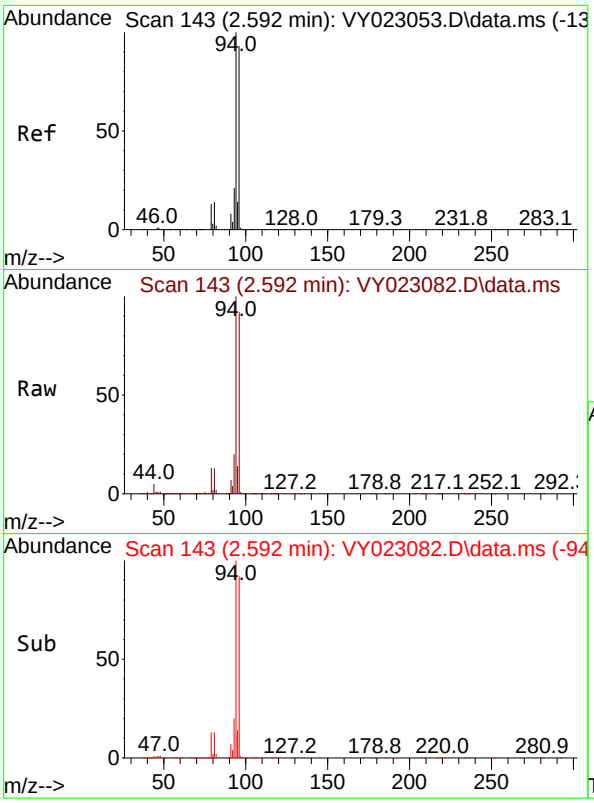


#4
Vinyl Chloride
Concen: 51.951 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 376058

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.4	38.0





#5
Bromomethane
Concen: 55.884 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 94 Resp: 30211

Ion	Ratio	Lower	Upper
94	100		
96	92.2	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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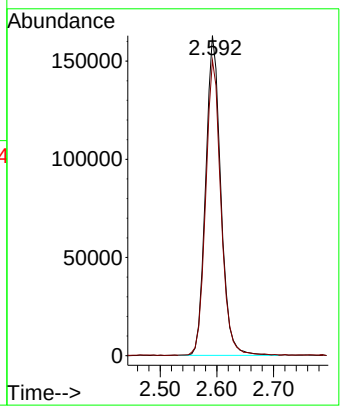
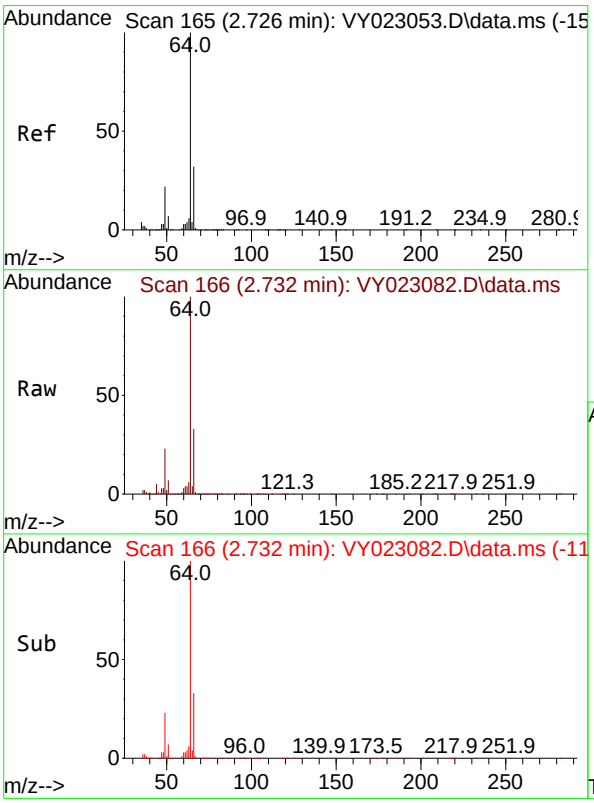
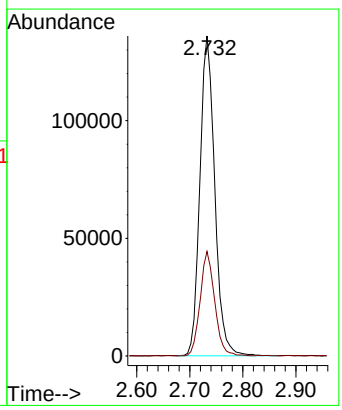


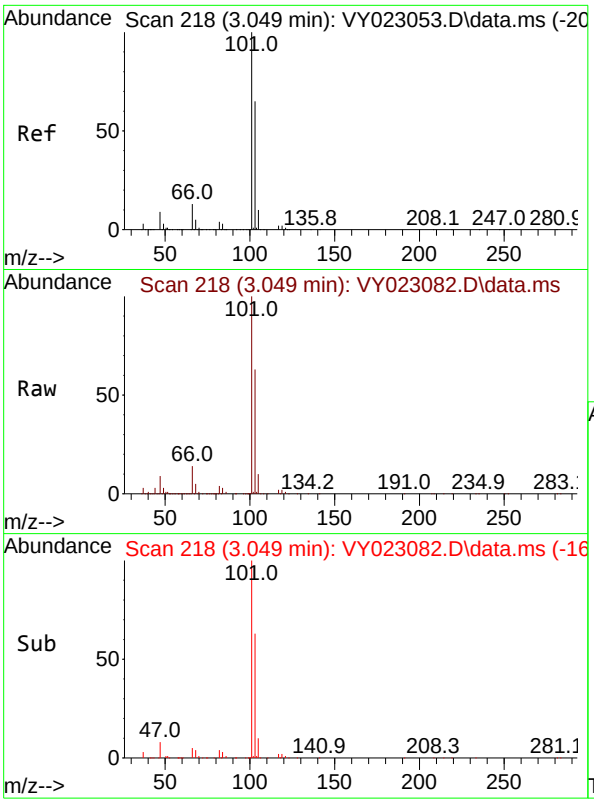


#6
Chloroethane
Concen: 54.827 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 64 Resp: 263860

Ion	Ratio	Lower	Upper
64	100		
66	32.6	25.8	38.6

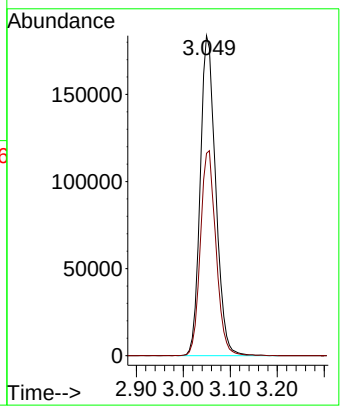




#7
Trichlorofluoromethane
Concen: 47.599 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:101 Resp: 41896

Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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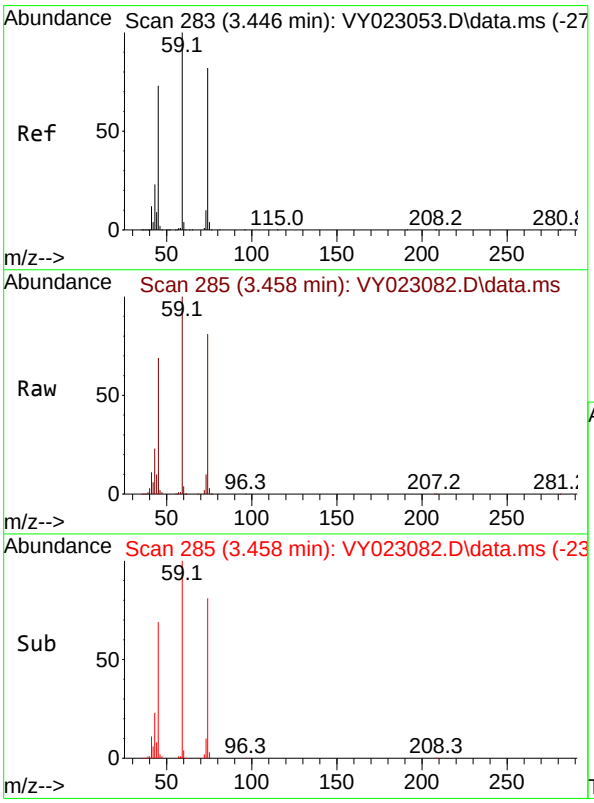
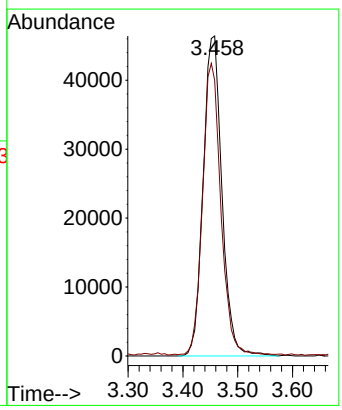
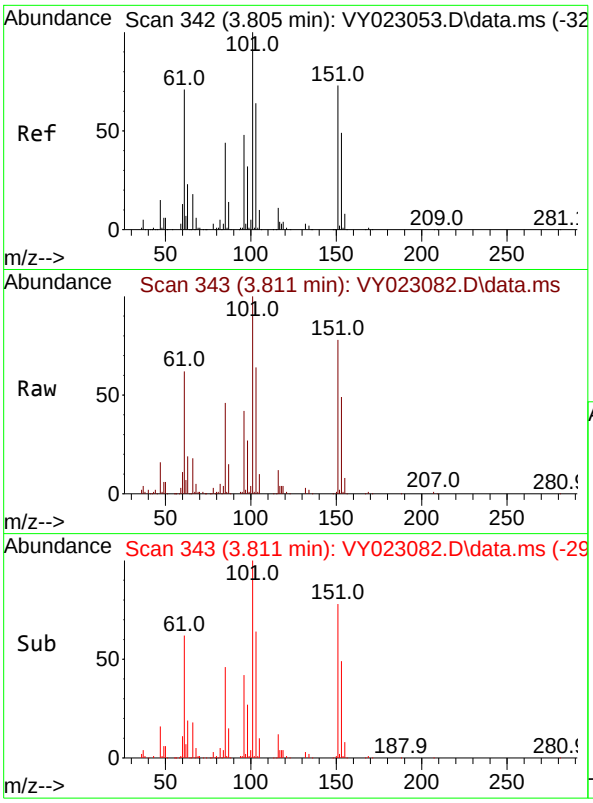


#8
Diethyl Ether
Concen: 47.275 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 74 Resp: 110091

Ion	Ratio	Lower	Upper
74	100		
45	88.4	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.513 ug/l
RT: 3.811 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:101 Resp: 20198

Ion	Ratio	Lower	Upper
101	100		
85	45.8	36.3	54.5
151	76.7	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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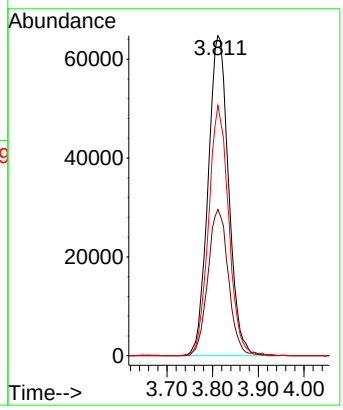
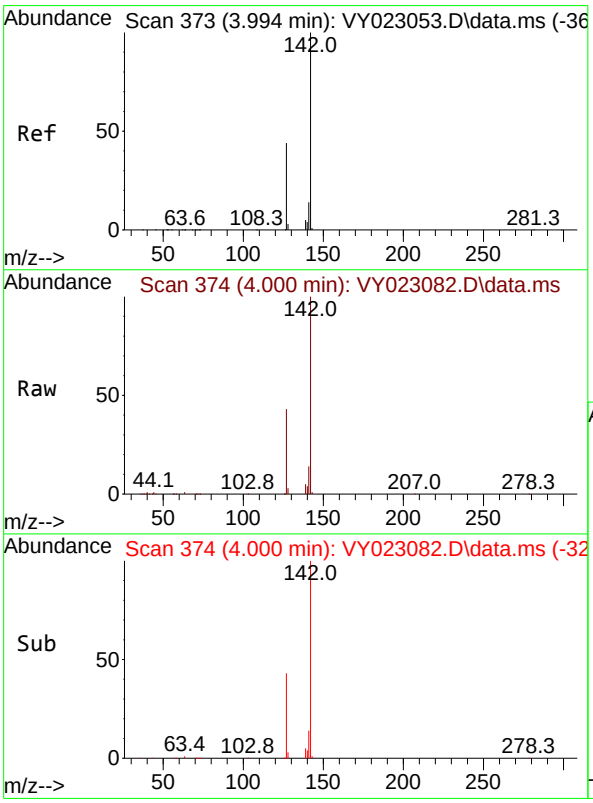
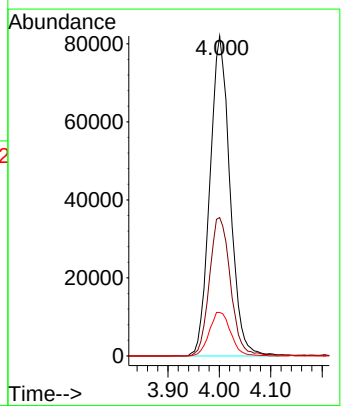


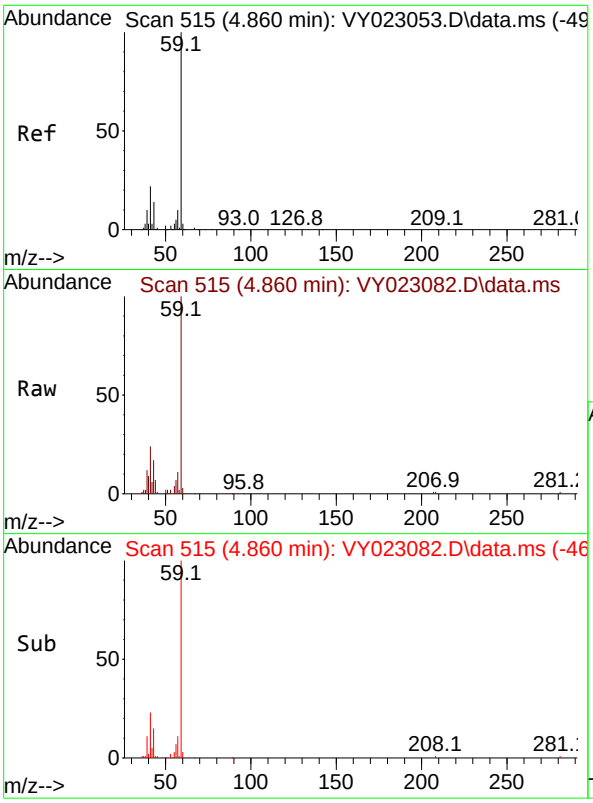


#10
Methyl Iodide
Concen: 47.564 ug/l
RT: 4.000 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:142 Resp: 222876

Ion	Ratio	Lower	Upper
142	100		
127	45.4	34.9	52.3
141	14.6	11.3	16.9

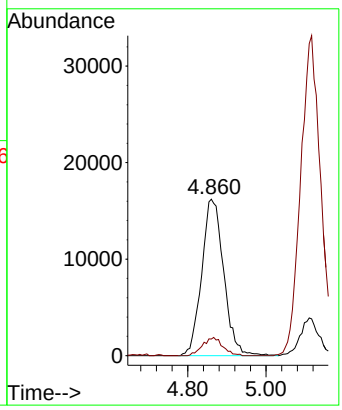




#11
Tert butyl alcohol
Concen: 218.366 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 59 Resp: 6316

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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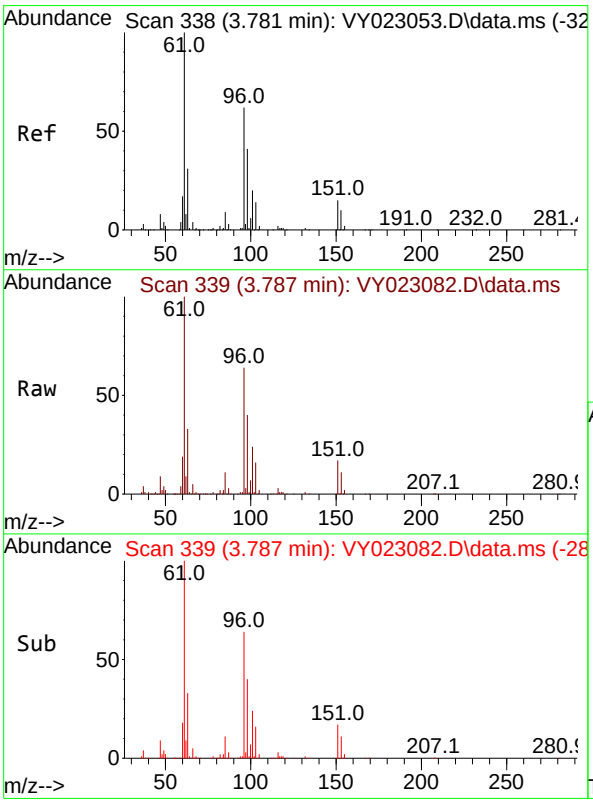
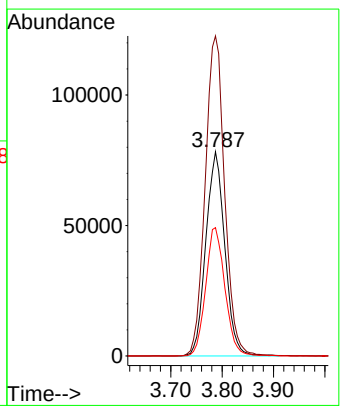
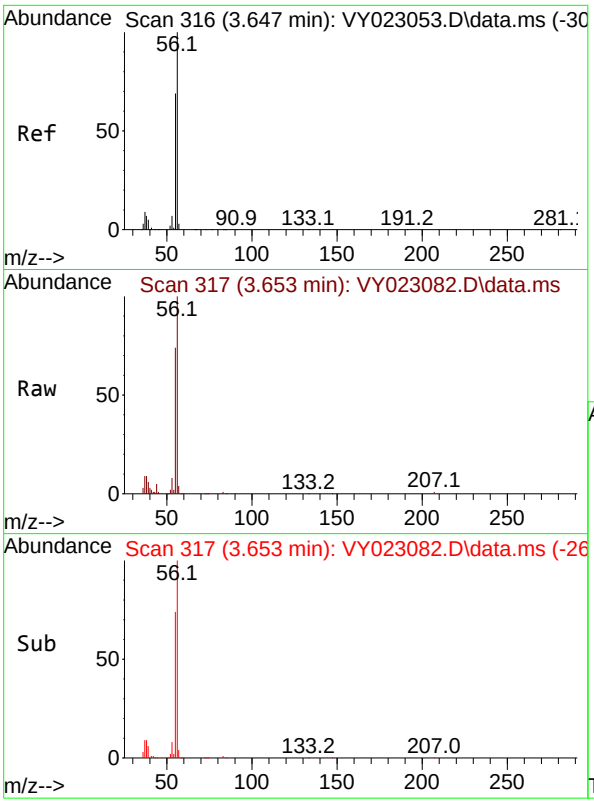


#12
1,1-Dichloroethene
Concen: 47.150 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 201251

Ion	Ratio	Lower	Upper
96	100		
61	156.7	129.4	194.2
98	62.9	52.8	79.2





#13
Acrolein
Concen: 175.306 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 56 Resp: 7426

Ion	Ratio	Lower	Upper
56	100		
55	72.1	55.2	82.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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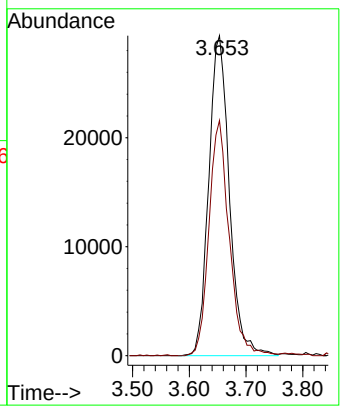
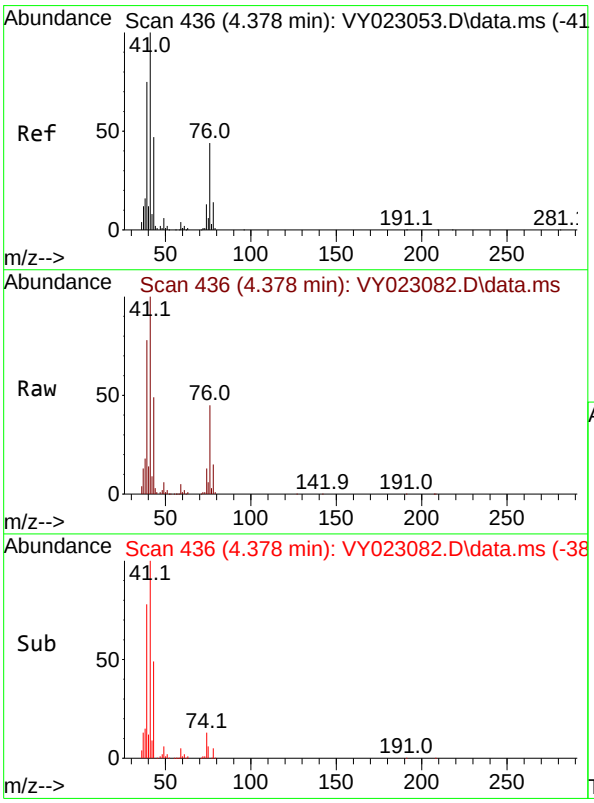
Supervised By :Semsettin Yesilyurt 08/19/2025

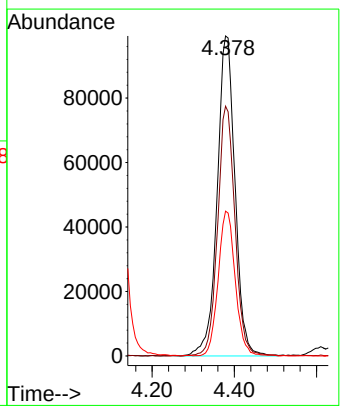


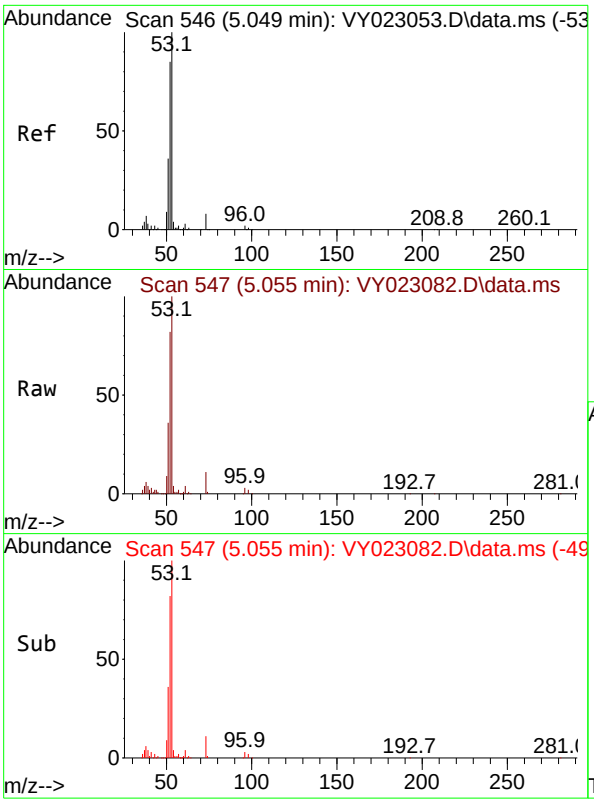


#14
Allyl chloride
Concen: 47.744 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 299858

Ion	Ratio	Lower	Upper
41	100		
39	75.7	59.8	89.6
76	43.3	33.7	50.5





#15
Acrylonitrile
Concen: 242.199 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 53 Resp: 22929

Ion	Ratio	Lower	Upper
53	100		
52	80.1	65.3	97.9
51	36.6	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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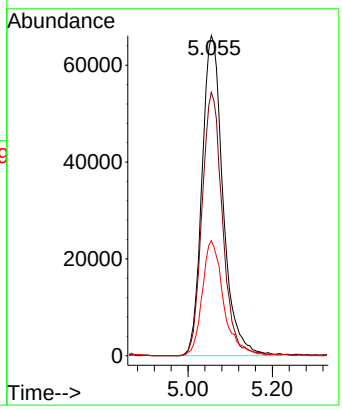
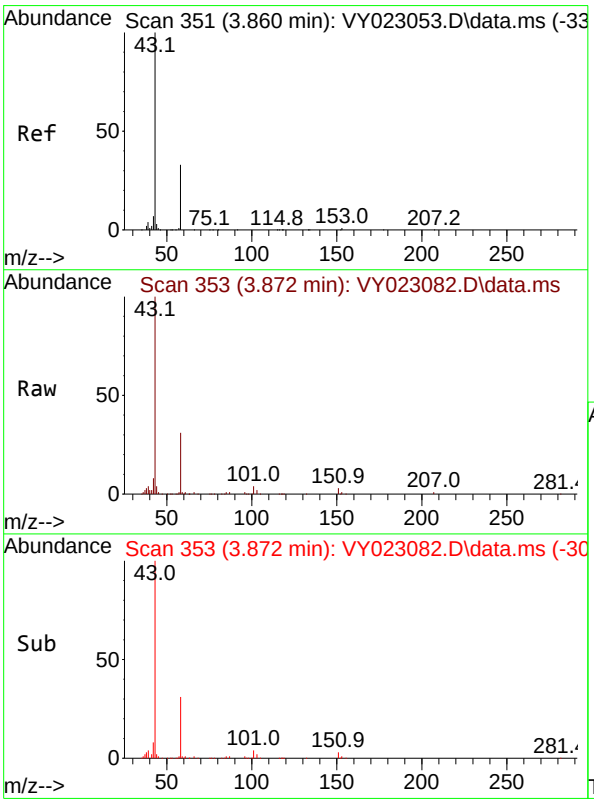
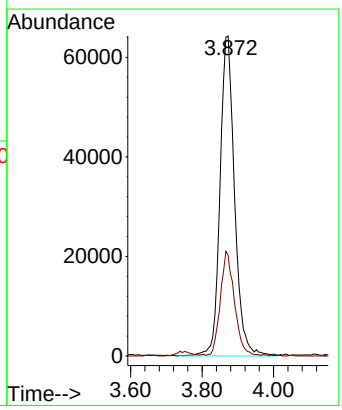


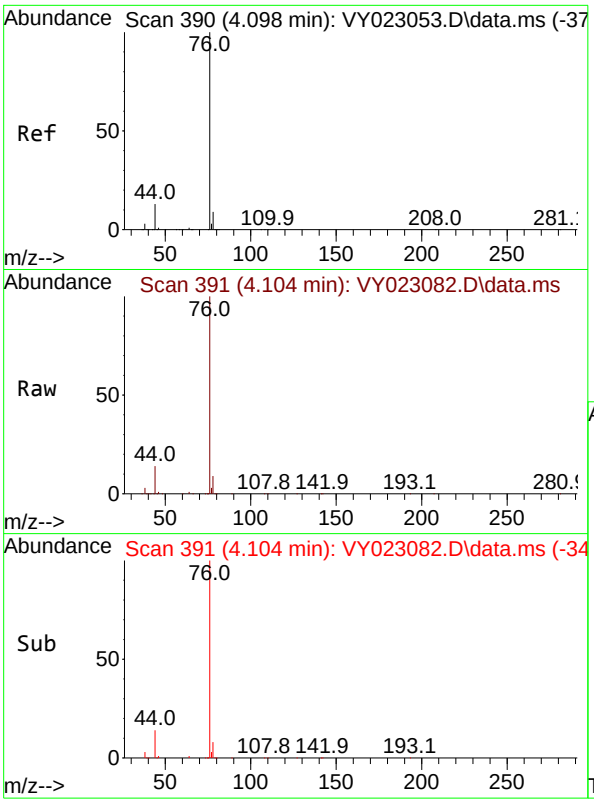


#16
Acetone
Concen: 198.426 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 181474

Ion	Ratio	Lower	Upper
43	100		
58	31.2	27.1	40.7

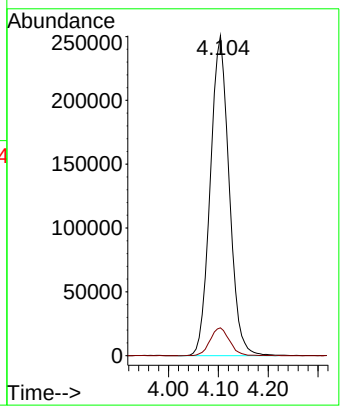




#17
Carbon Disulfide
Concen: 47.377 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 76 Resp: 65937

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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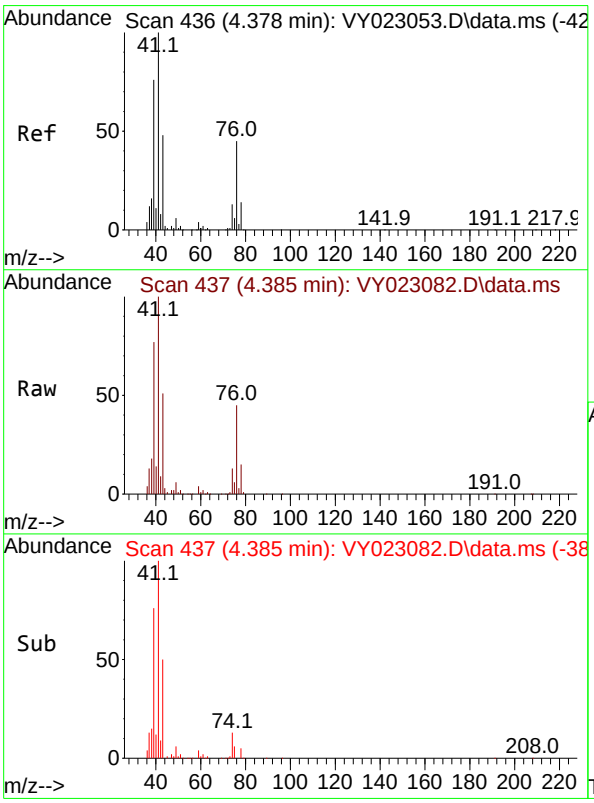
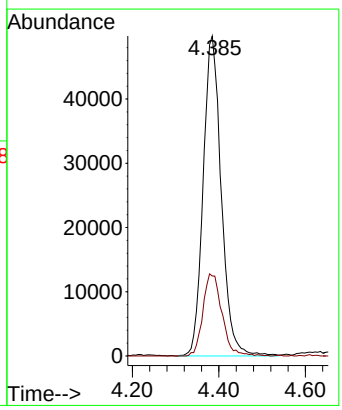
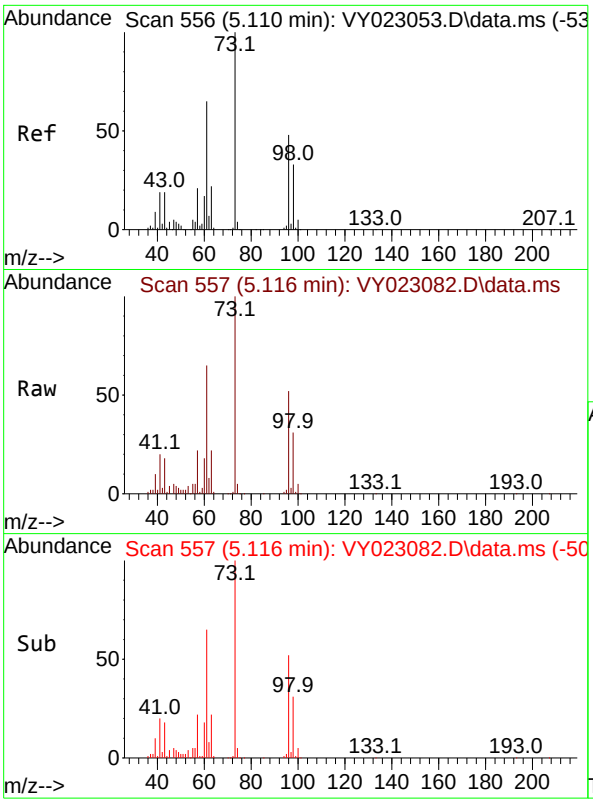


#18
Methyl Acetate
Concen: 53.111 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 144547

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8

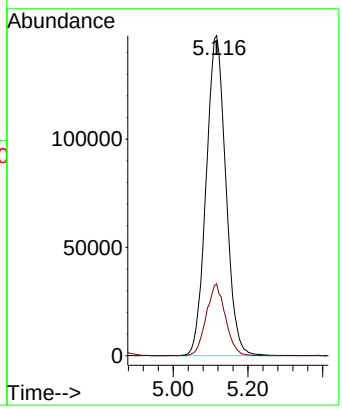




#19
Methyl tert-butyl Ether
Concen: 48.863 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 73 Resp: 54045

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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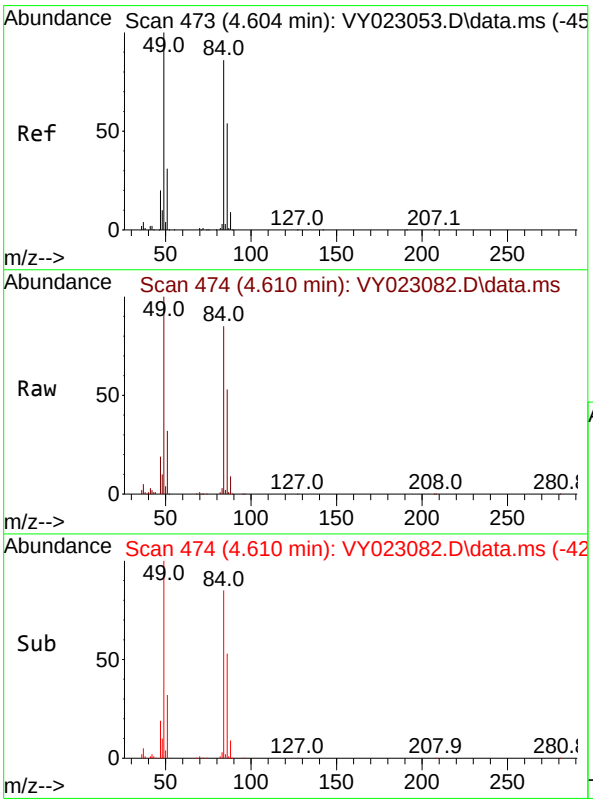
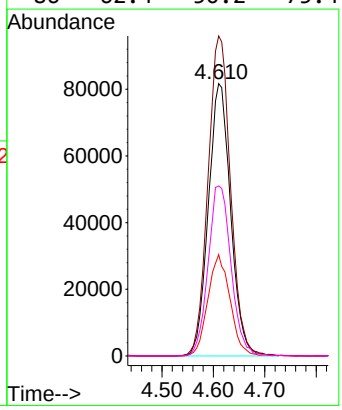
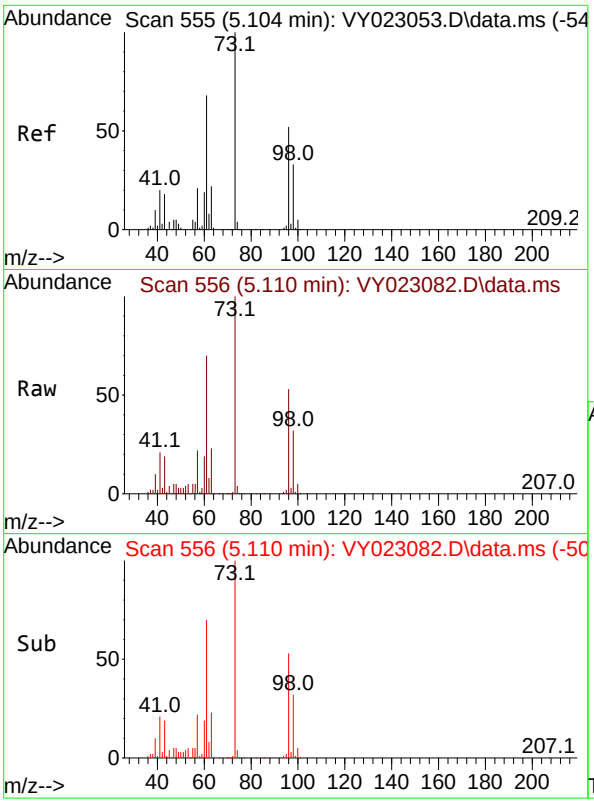


#20
Methylene Chloride
Concen: 51.824 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 84 Resp: 245813

Ion	Ratio	Lower	Upper
84	100		
49	117.4	93.0	139.6
51	37.1	29.0	43.4
86	62.4	50.2	75.4

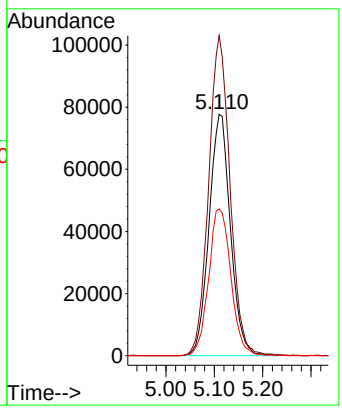




#21
trans-1,2-Dichloroethene
Concen: 49.867 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 23919

Ion	Ratio	Lower	Upper
96	100		
61	132.6	104.8	157.2
98	60.7	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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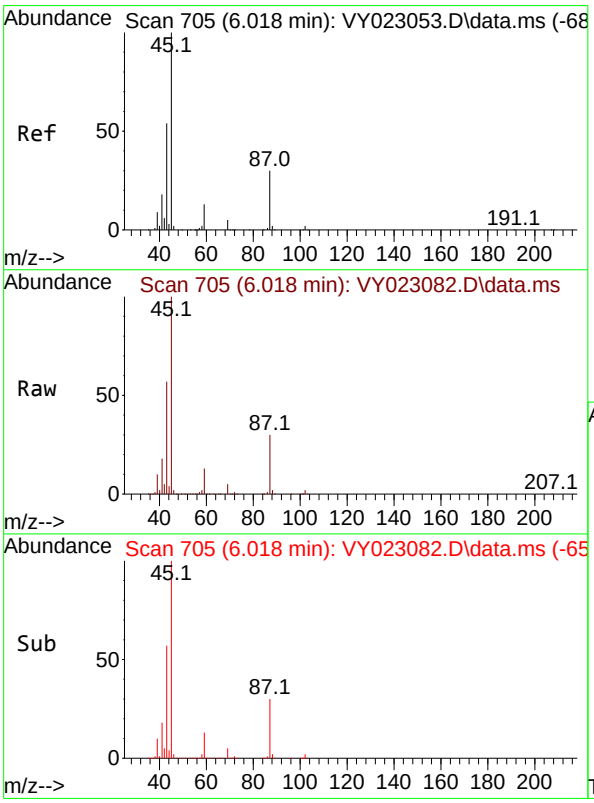
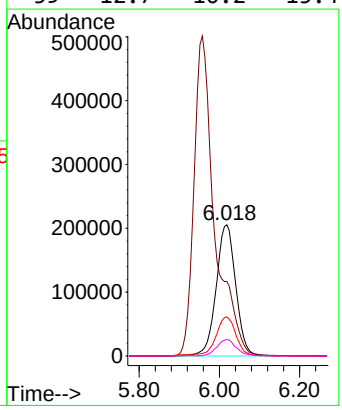
Supervised By :Semsettin Yesilyurt 08/19/2025

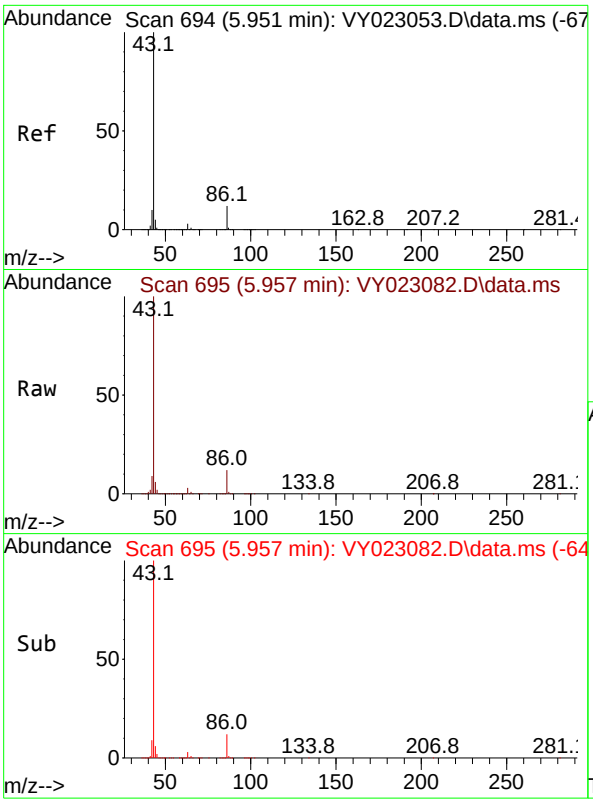


#22
Diisopropyl ether
Concen: 50.952 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 45 Resp: 695381

Ion	Ratio	Lower	Upper
45	100		
43	56.4	43.4	65.0
87	29.7	24.4	36.6
59	12.7	10.2	15.4





#23
Vinyl Acetate
Concen: 237.183 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 178990

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.6	14.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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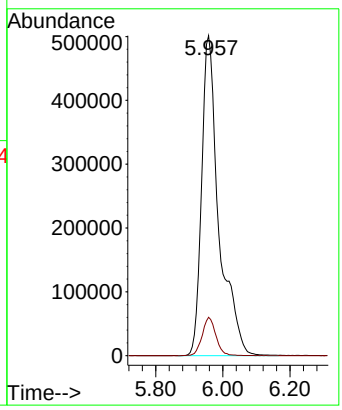
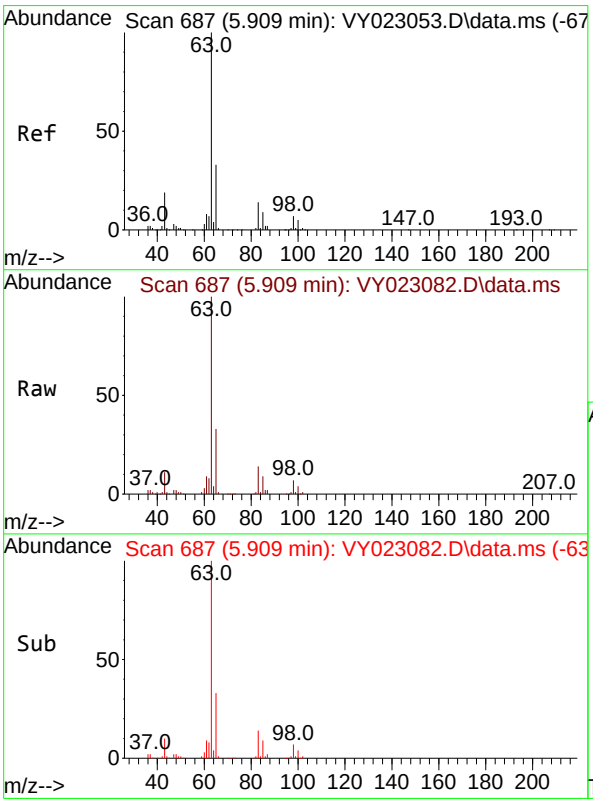
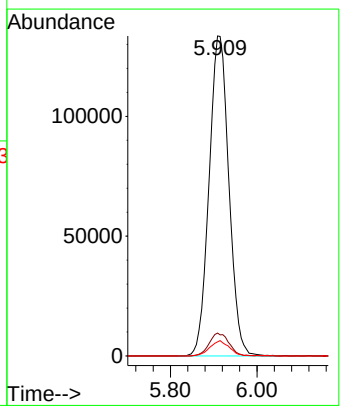


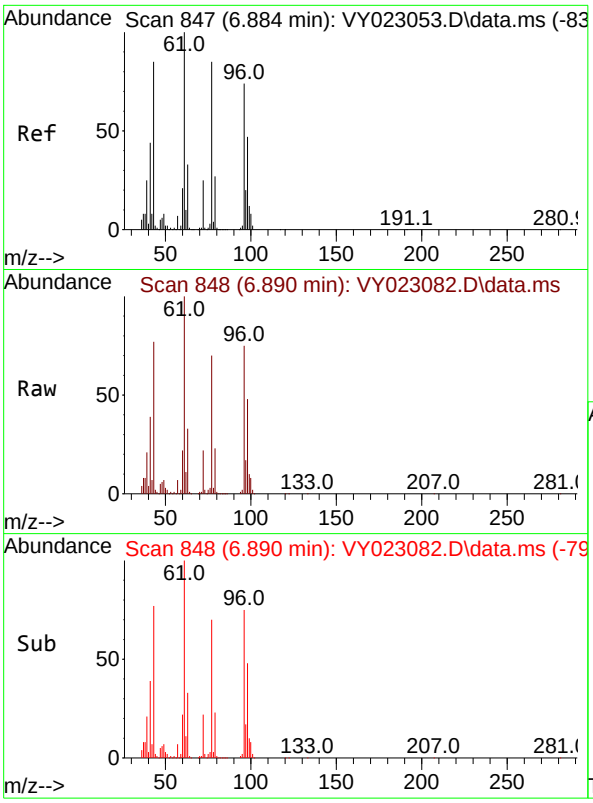


#24
1,1-Dichloroethane
Concen: 50.854 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 424330

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.4	2.4	7.1





#25
2-Butanone
Concen: 224.999 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 279864

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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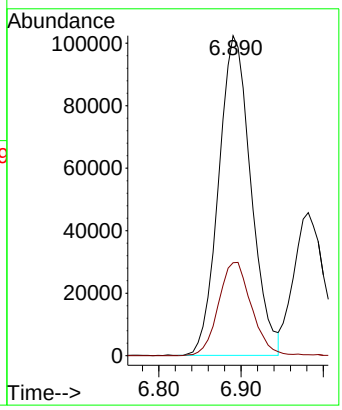
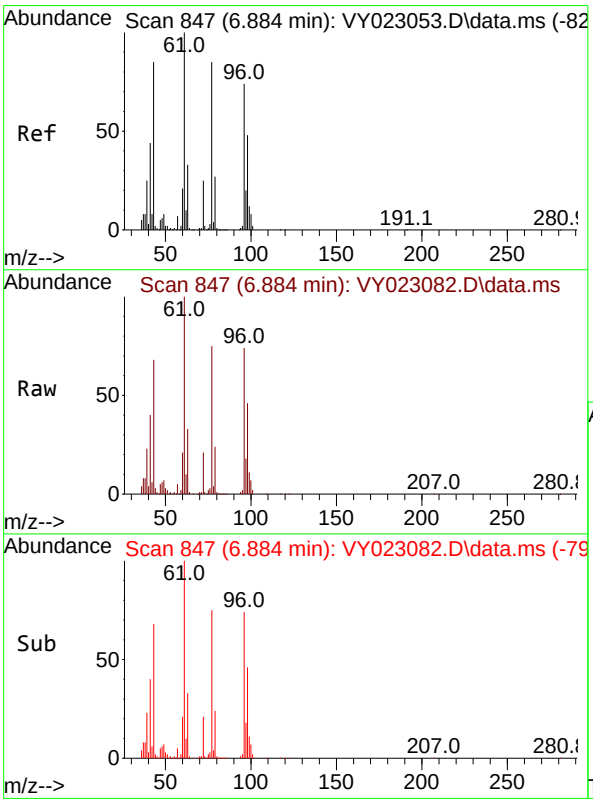
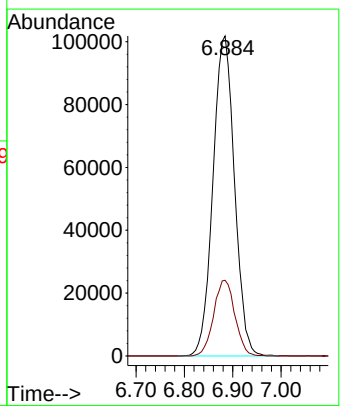


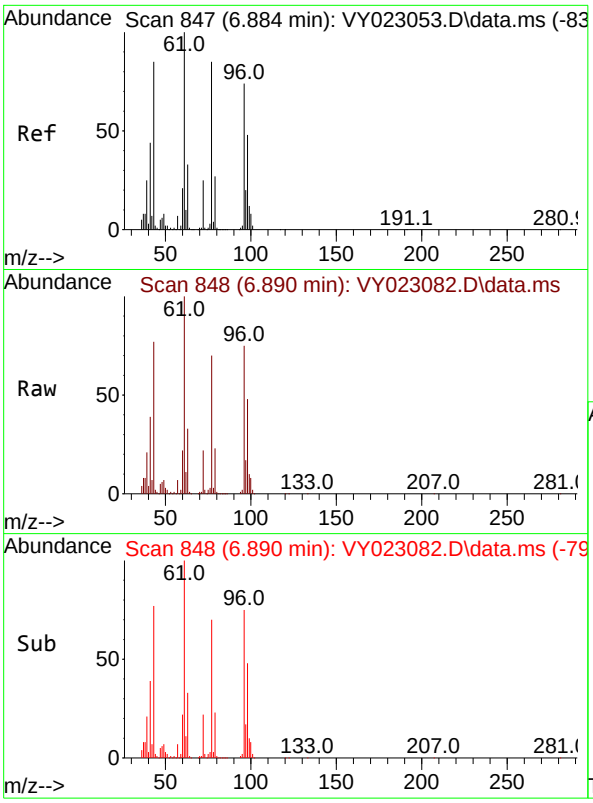


#26
2,2-Dichloropropane
Concen: 43.733 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 77 Resp: 314878

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 50.561 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 28037(

Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	278.6
98	63.9	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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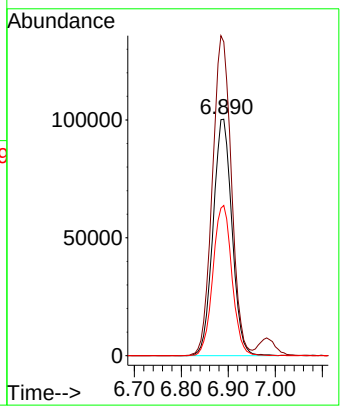
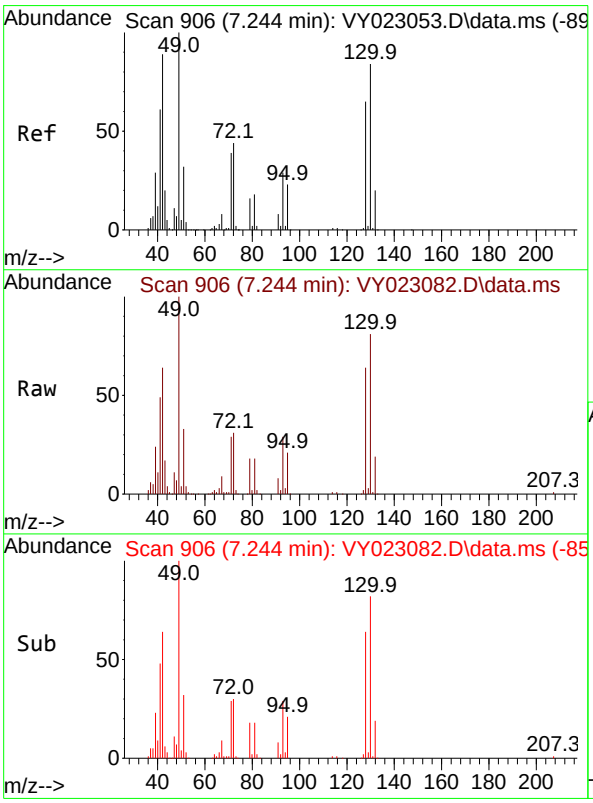
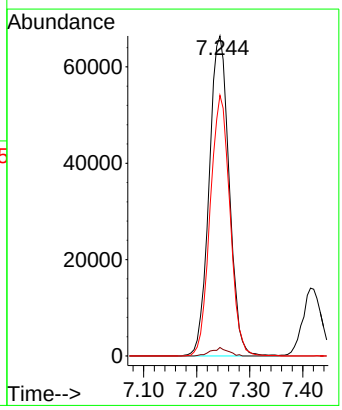


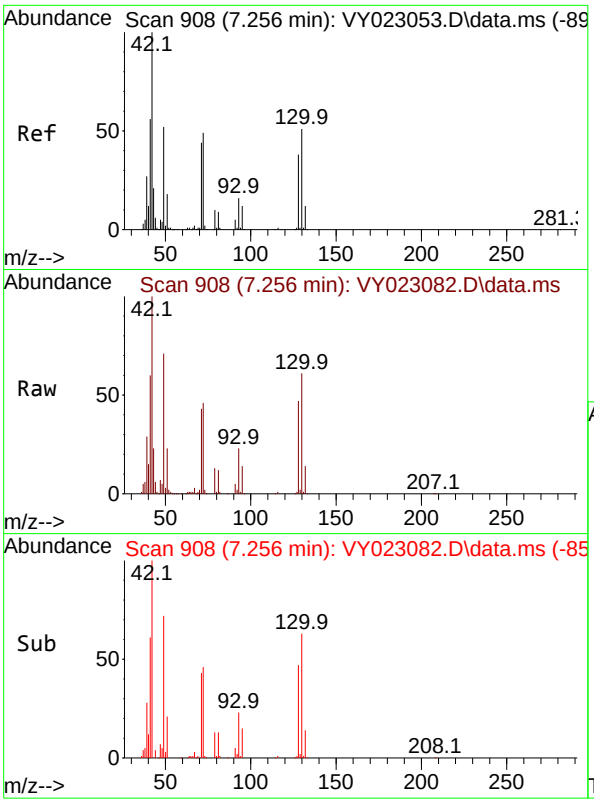


#28
Bromochloromethane
Concen: 52.662 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 49 Resp: 174333

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	80.2	66.4	99.6





#29
Tetrahydrofuran
Concen: 238.509 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 42 Resp: 18389

Ion	Ratio	Lower	Upper
42	100		
72	47.8	39.4	59.2
71	44.6	36.5	54.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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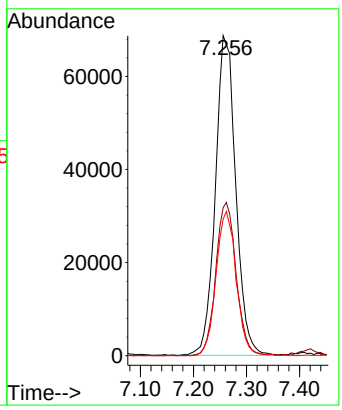
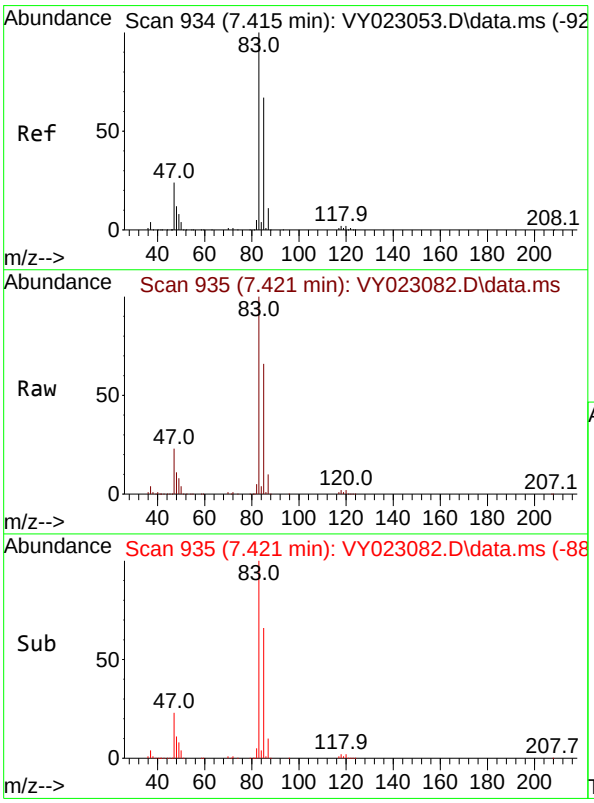
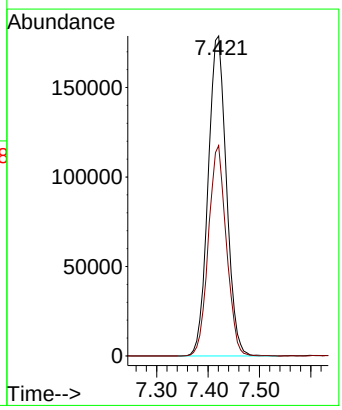


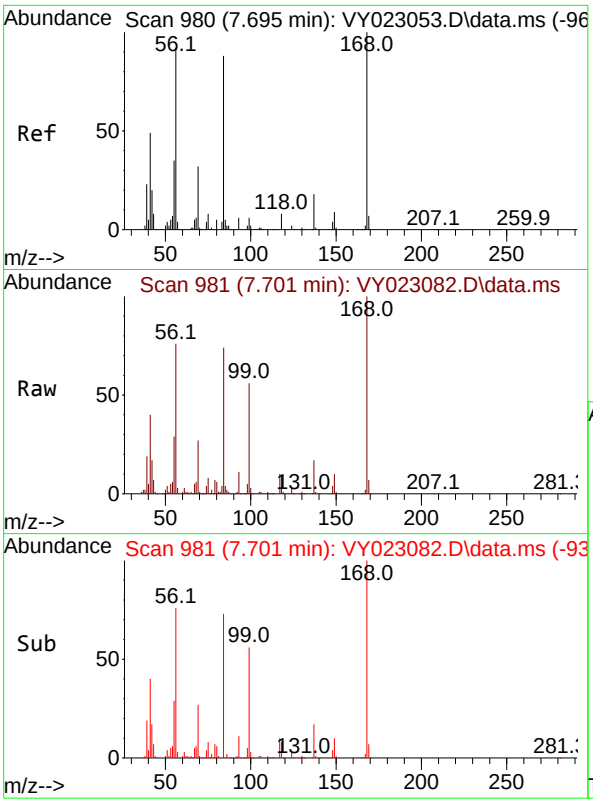


#30
Chloroform
Concen: 51.354 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 441927

Ion	Ratio	Lower	Upper
83	100		
85	65.7	53.8	80.8

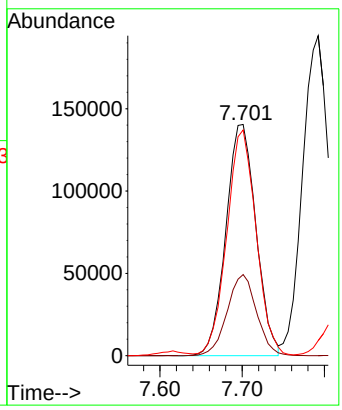




#31
Cyclohexane
Concen: 45.365 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 56 Resp: 35670

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.2	42.2
84	96.1	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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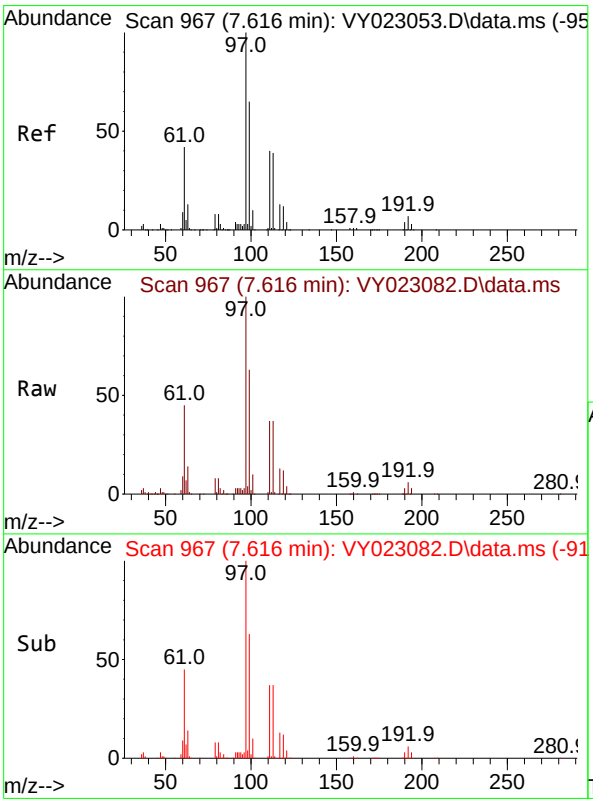
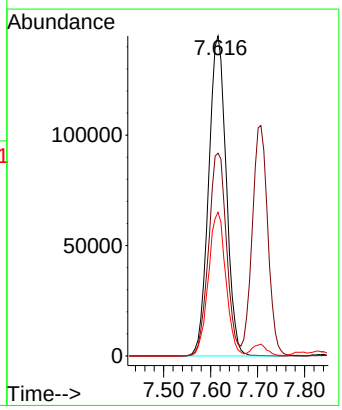
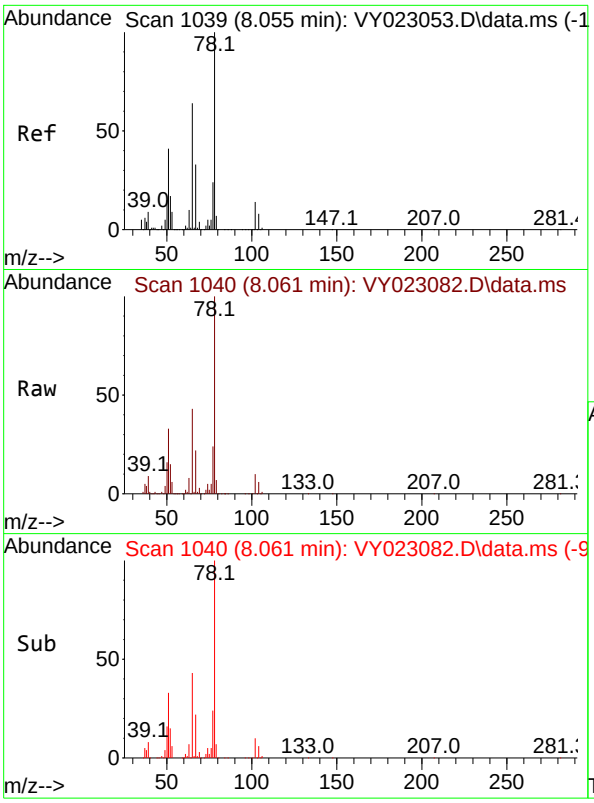


#32
1,1,1-Trichloroethane
Concen: 49.325 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 97 Resp: 376634

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	44.6	34.2	51.2

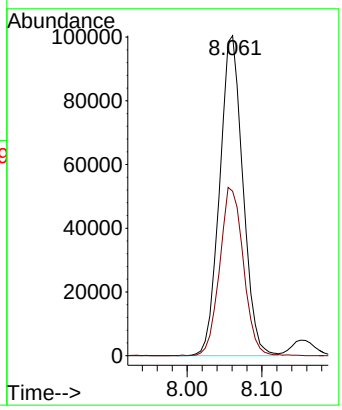




#33
1,2-Dichloroethane-d4
Concen: 51.443 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 65 Resp: 21716

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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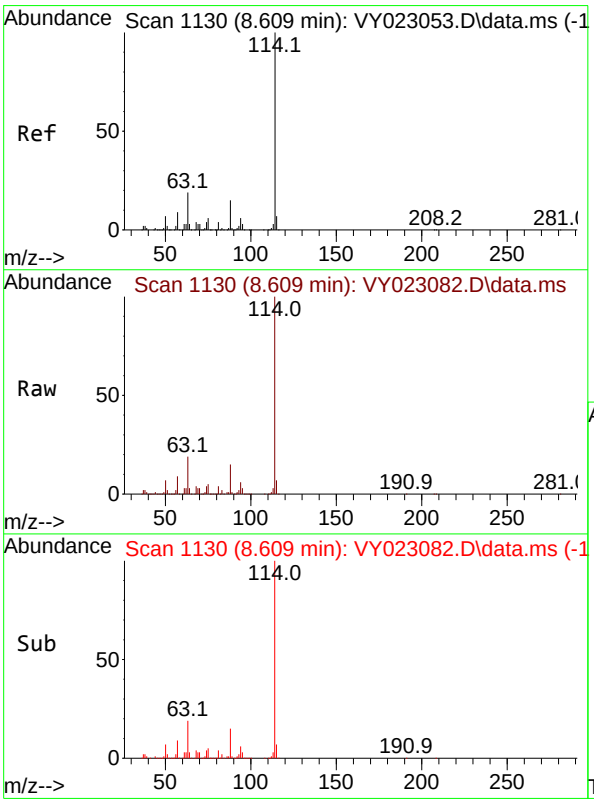
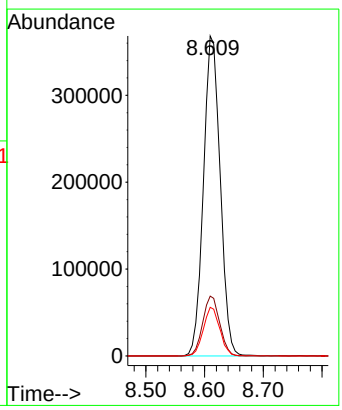
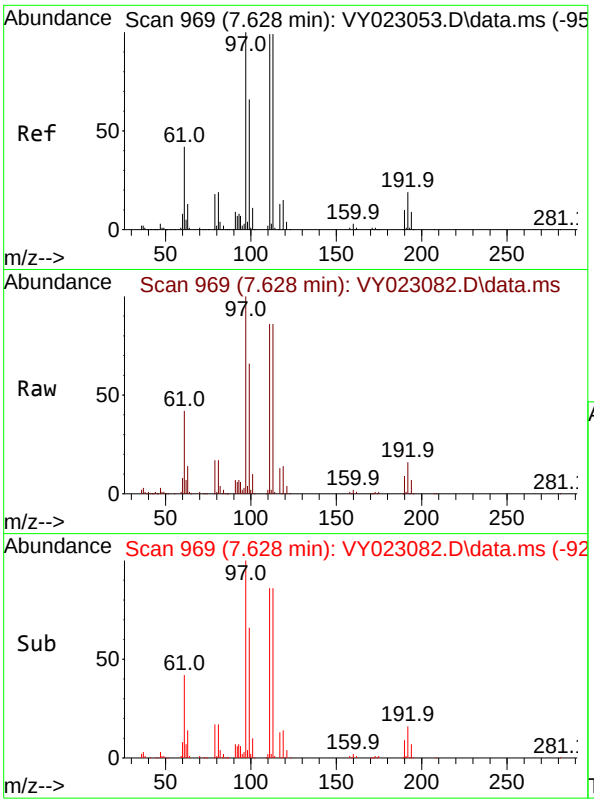


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:114 Resp: 730611

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	15.2	0.0	30.0

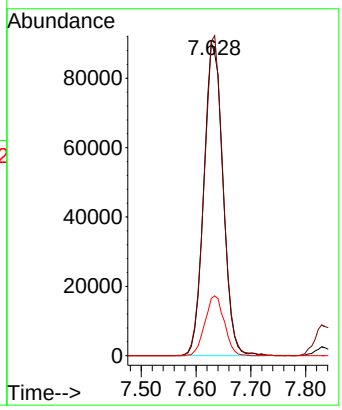




#35
Dibromofluoromethane
Concen: 49.874 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:113 Resp: 21803

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.1	121.7
192	19.4	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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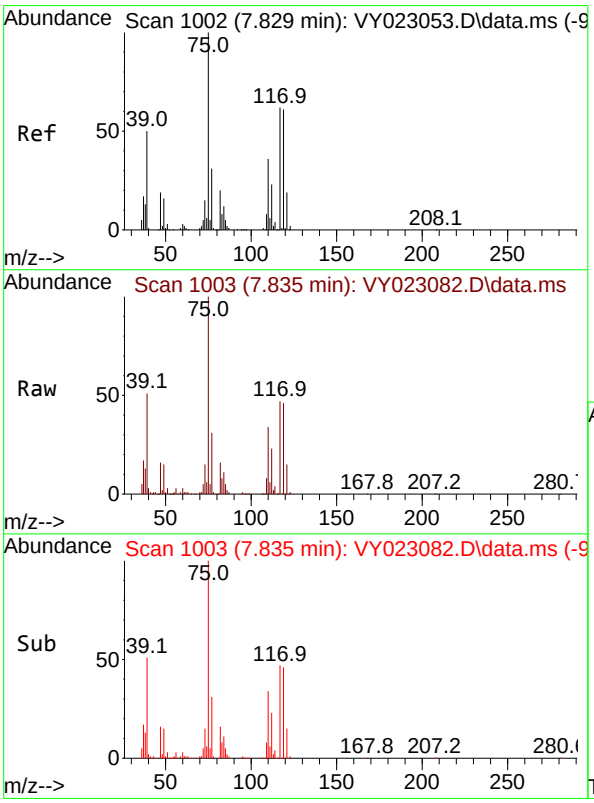
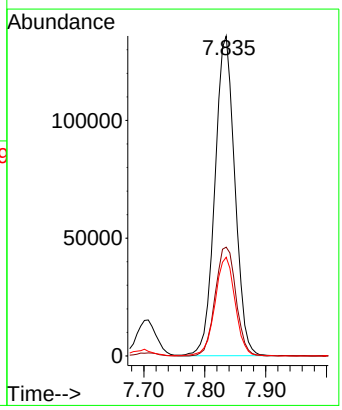
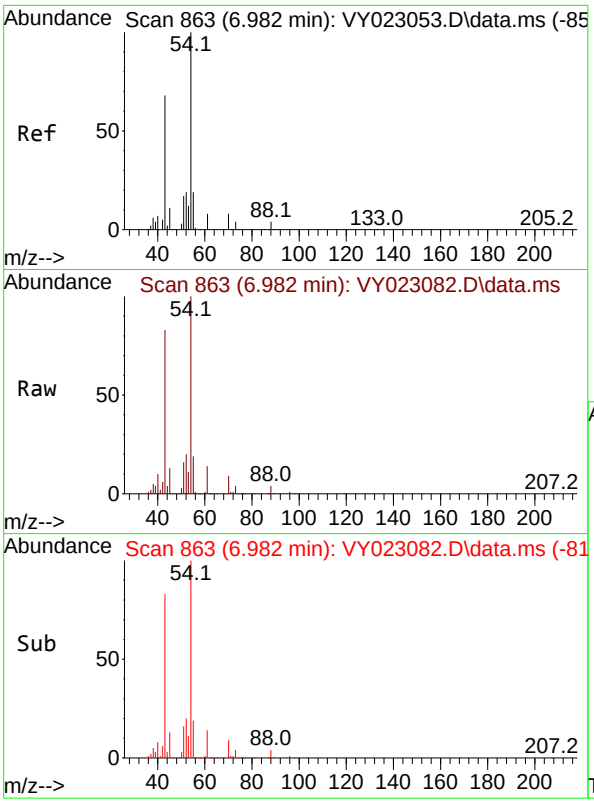


#36
1,1-Dichloropropene
Concen: 47.457 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 308332

Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.4
77	31.3	24.6	37.0





#37
Ethyl Acetate
Concen: 44.531 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 12153

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.9	17.9
70	11.1	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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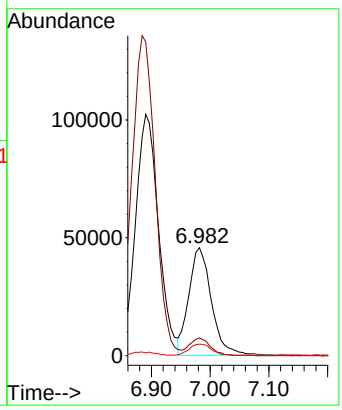
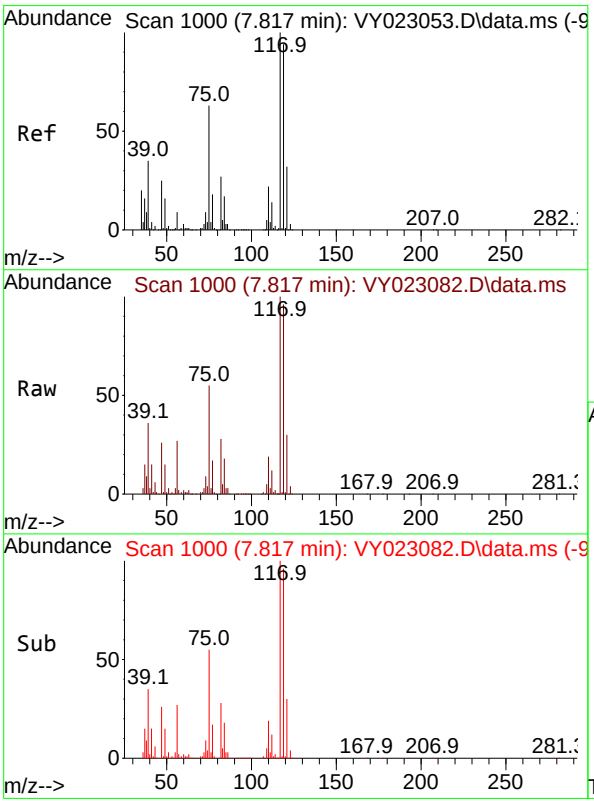
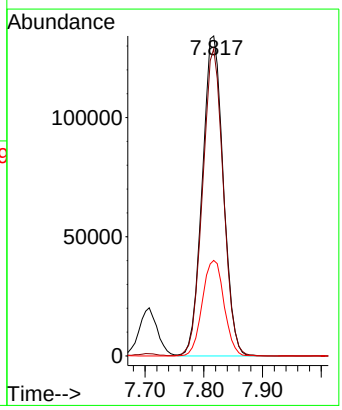


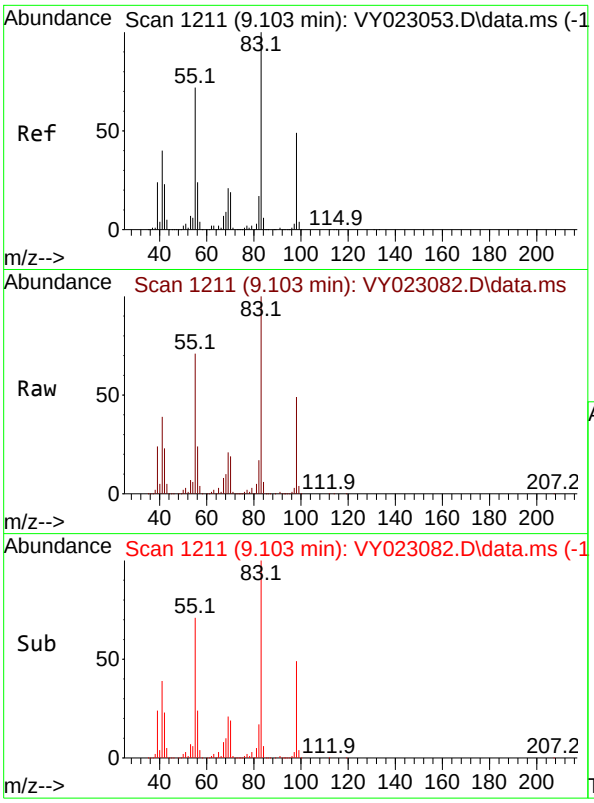


#38
Carbon Tetrachloride
Concen: 47.191 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 333012

Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.6	113.4
121	29.9	25.8	38.8





#39
Methylcyclohexane
Concen: 46.461 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 39750

Ion	Ratio	Lower	Upper
83	100		
55	71.1	57.6	86.4
98	48.7	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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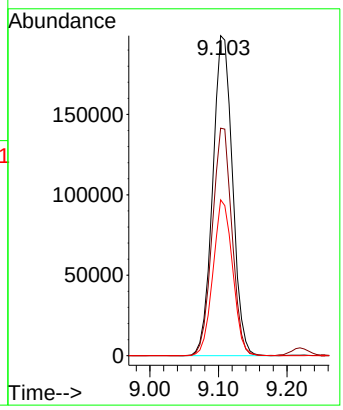
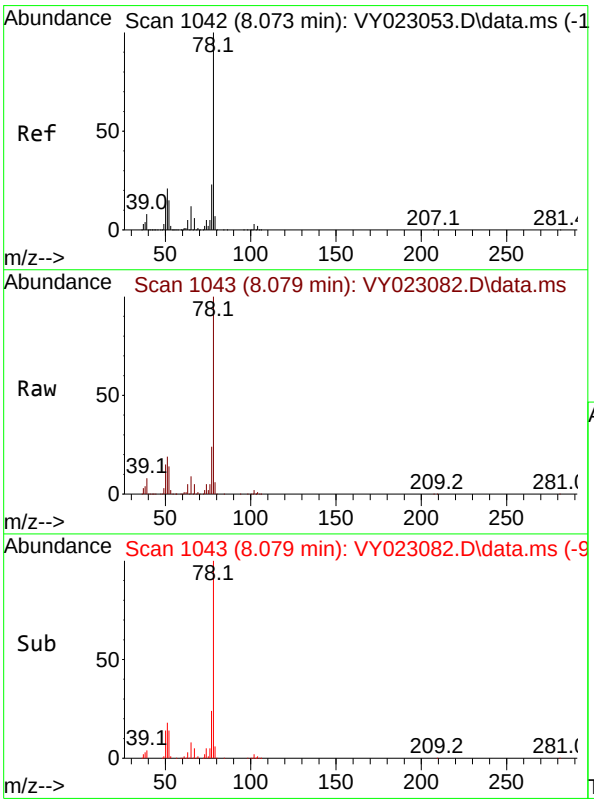
Supervised By :Semsettin Yesilyurt 08/19/2025

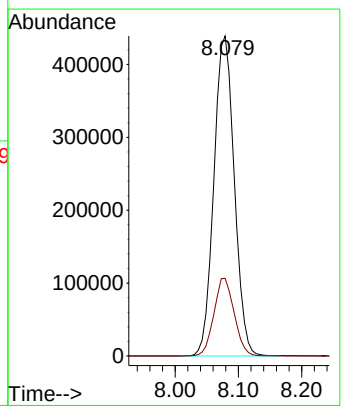


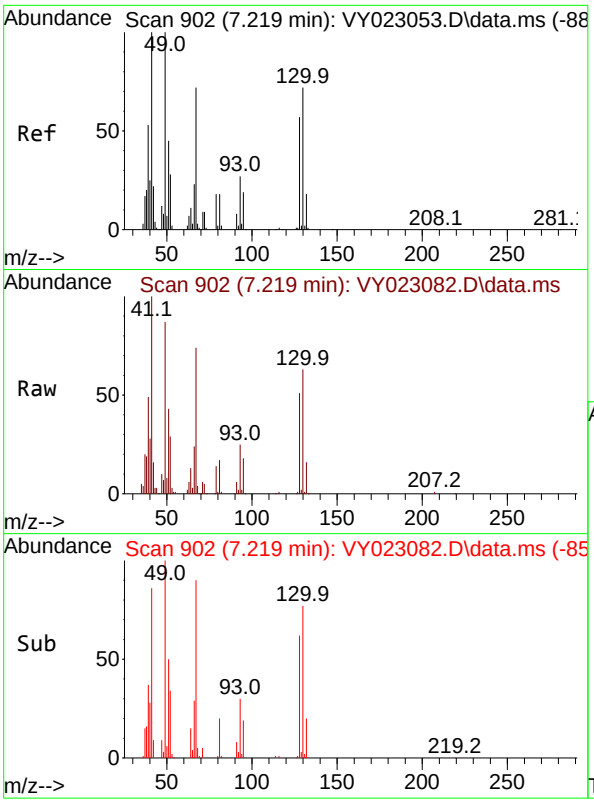


#40
Benzene
Concen: 49.159 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 78 Resp: 984401

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.6	28.0

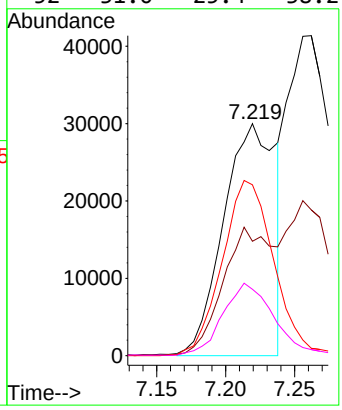




#41
Methacrylonitrile
Concen: 50.010 ug/l m
RT: 7.219 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 7877(

Ion	Ratio	Lower	Upper
41	100		
39	54.3	43.4	65.2
67	75.1	63.6	95.4
52	31.0	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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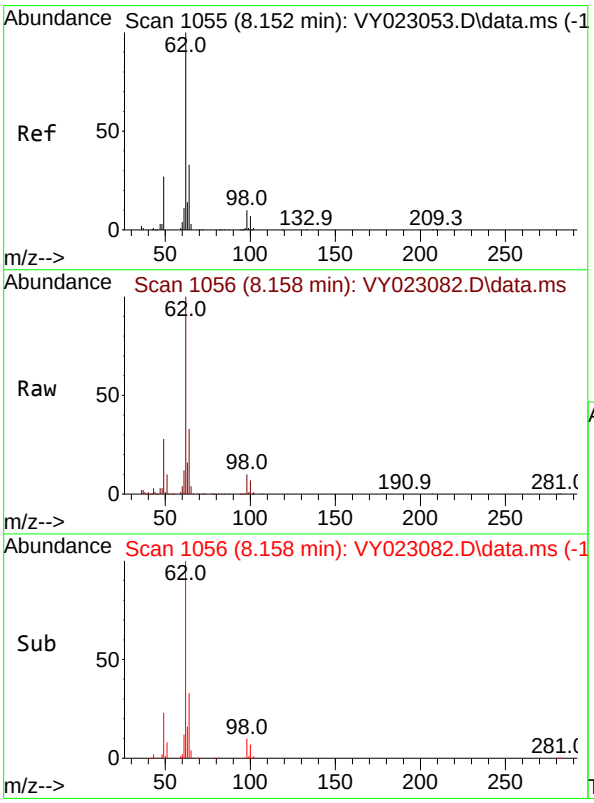
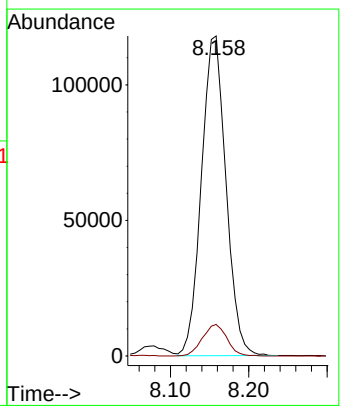
Supervised By :Semsettin Yesilyurt 08/19/2025

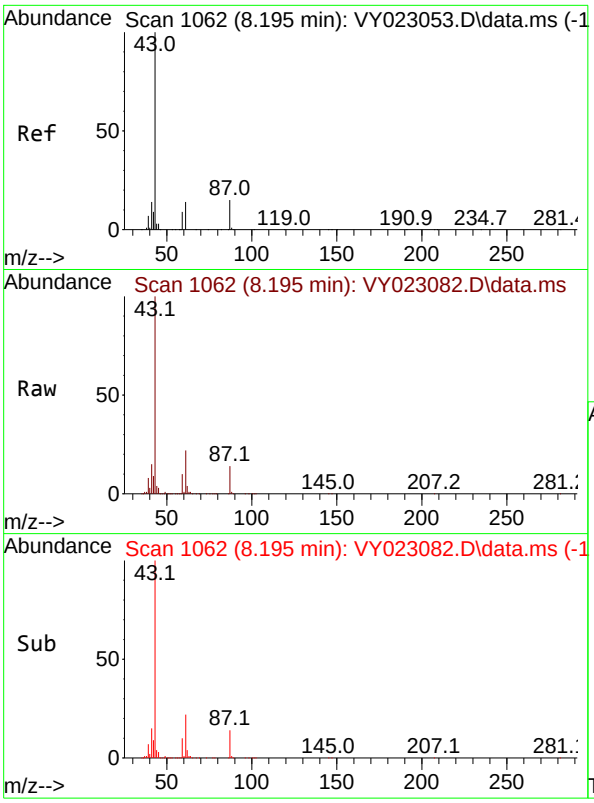


#42
1,2-Dichloroethane
Concen: 49.294 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 256723

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.6





#43
Isopropyl Acetate
Concen: 46.064 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 25410

Ion	Ratio	Lower	Upper
43	100		
61	21.8	16.4	24.6
87	14.7	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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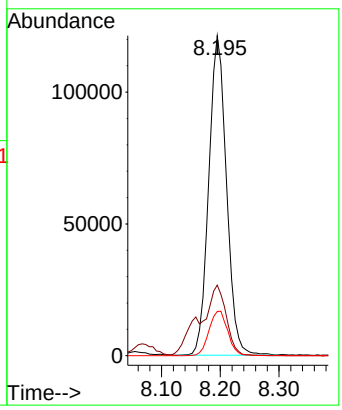
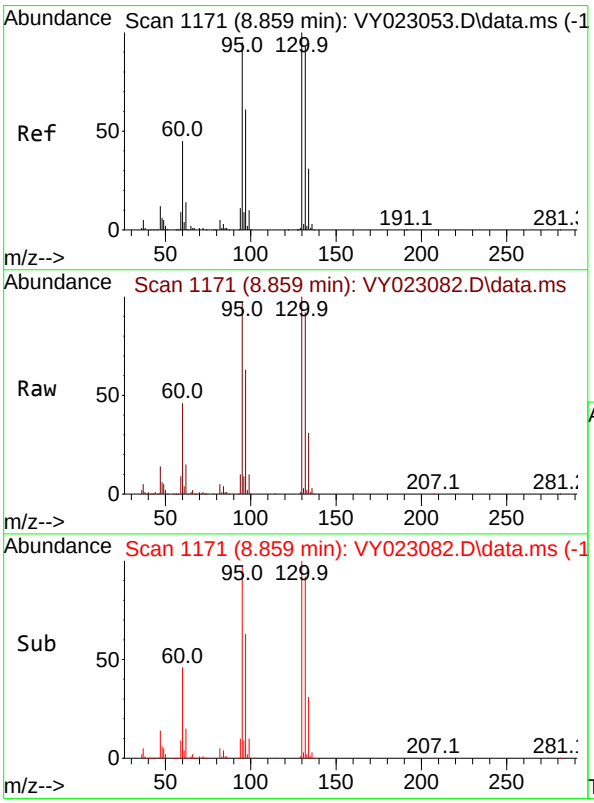
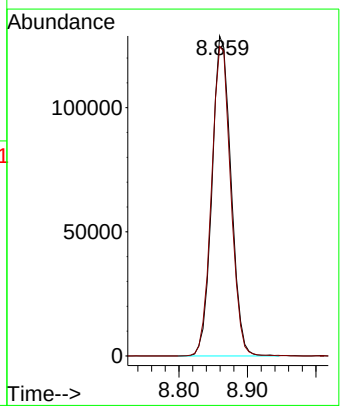


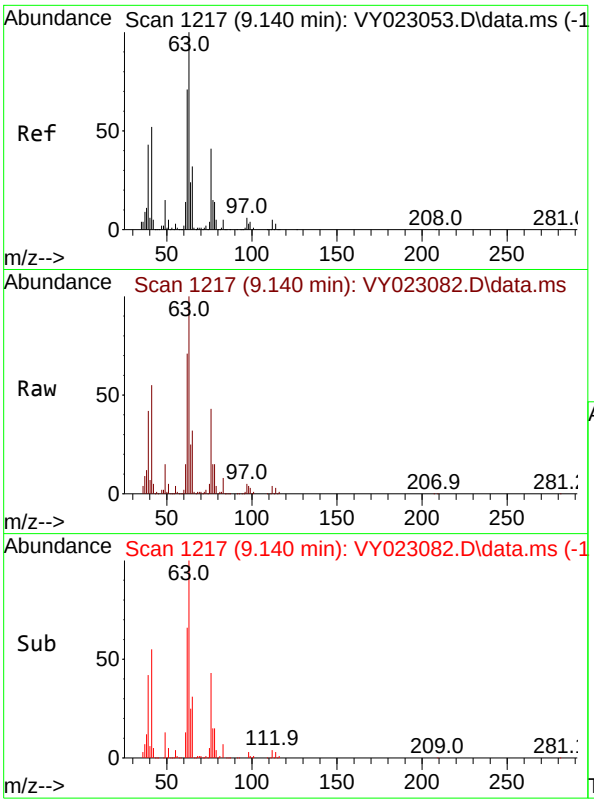


#44
Trichloroethene
Concen: 47.865 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:130 Resp: 247693

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	190.2





#45
1,2-Dichloropropane
Concen: 50.153 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 2310

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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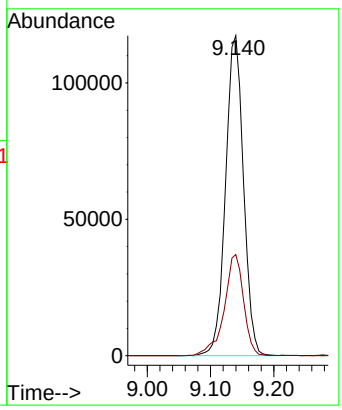
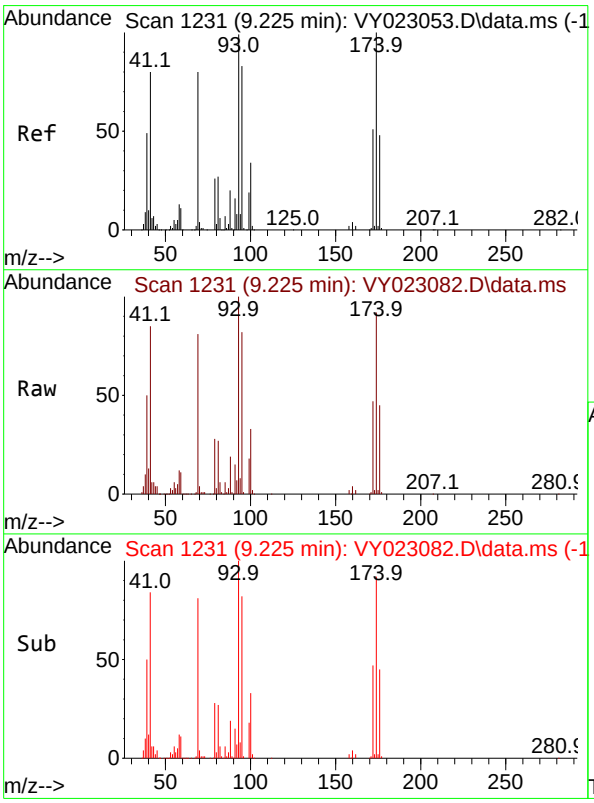
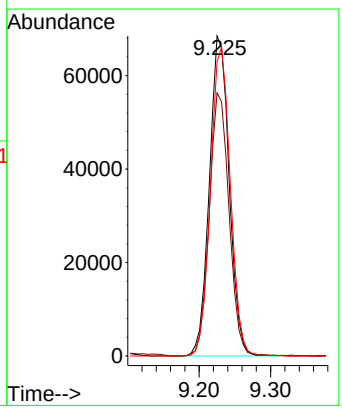


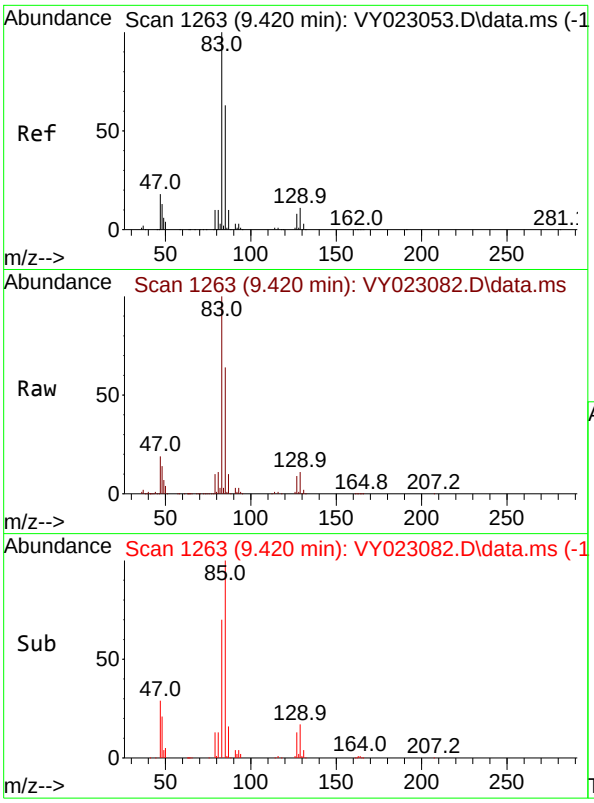


#46
Dibromomethane
Concen: 49.874 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 93 Resp: 131895

Ion	Ratio	Lower	Upper
93	100		
95	81.9	66.5	99.7
174	96.5	81.8	122.8

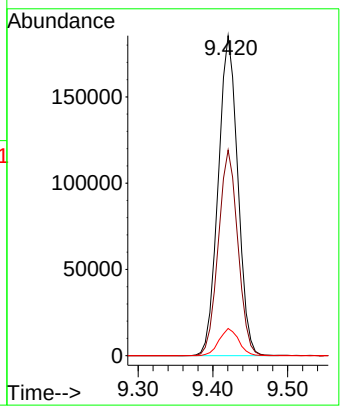




#47
Bromodichloromethane
Concen: 49.561 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 33725

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.2	75.4
127	8.5	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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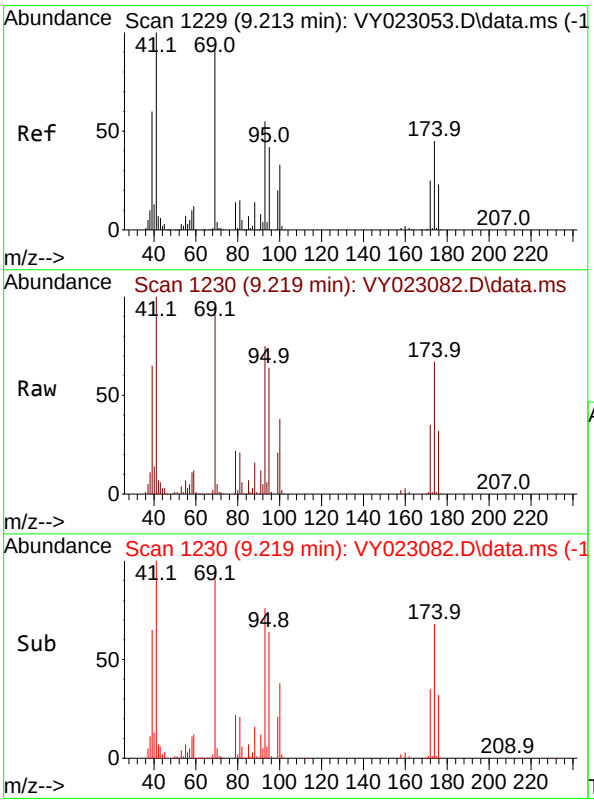
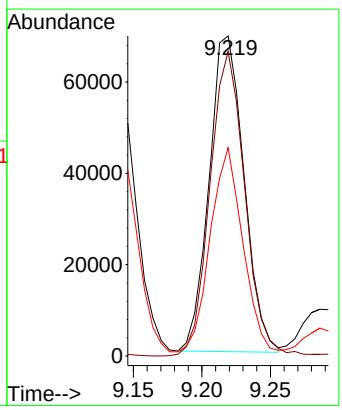
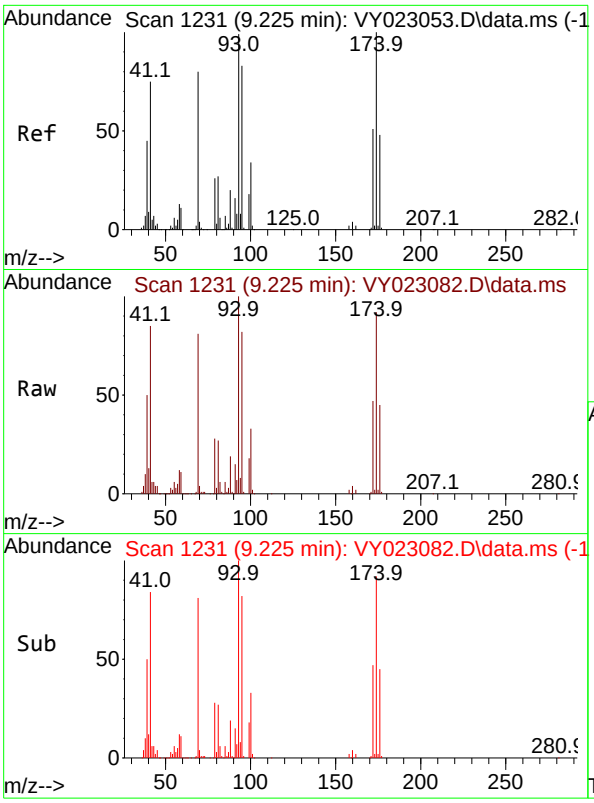


#48
Methyl methacrylate
Concen: 46.388 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 122447

Ion	Ratio	Lower	Upper
41	100		
69	96.6	73.2	109.8
39	60.4	47.0	70.4





#49
1,4-Dioxane
Concen: 946.941 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 88 Resp: 2936

Ion	Ratio	Lower	Upper
88	100		
43	33.1	24.3	36.5
58	64.7	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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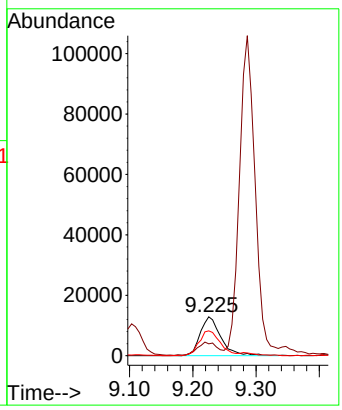
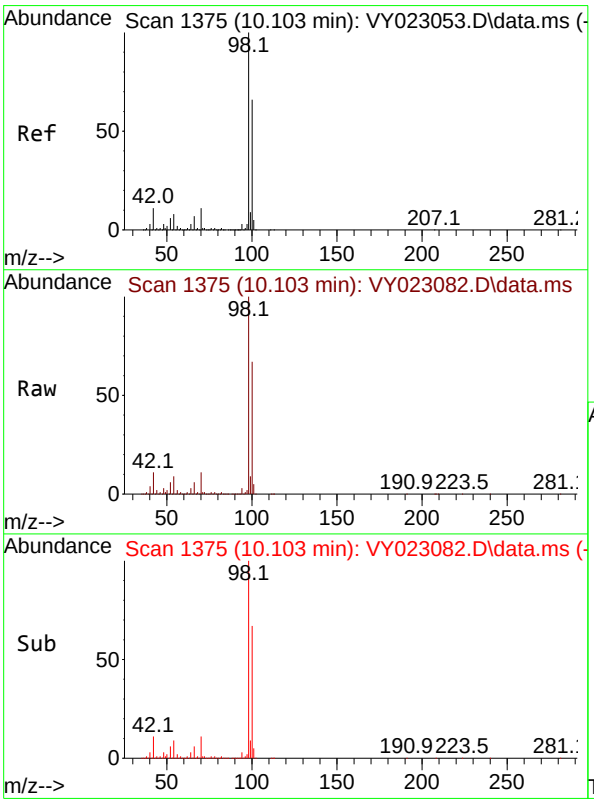
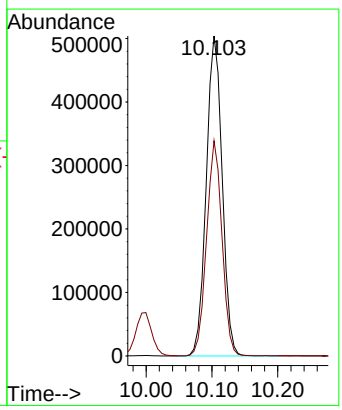


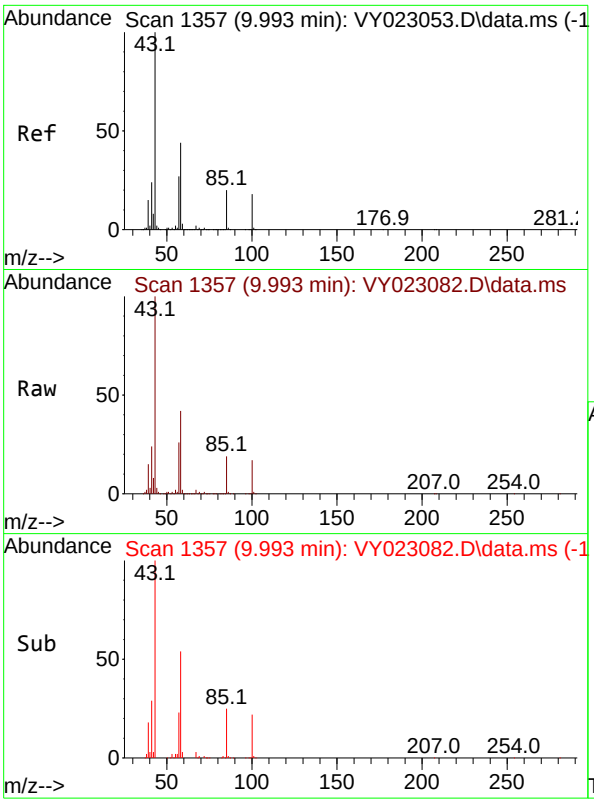


#50
Toluene-d8
Concen: 49.680 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 98 Resp: 848458

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5

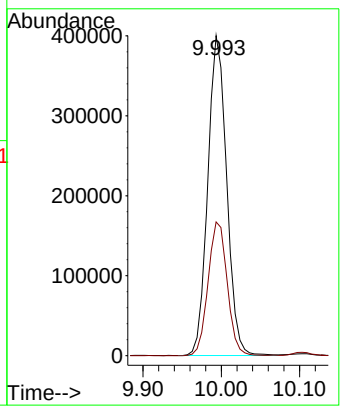




#51
4-Methyl-2-Pentanone
Concen: 235.707 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 67068

Ion	Ratio	Lower	Upper
43	100		
58	42.4	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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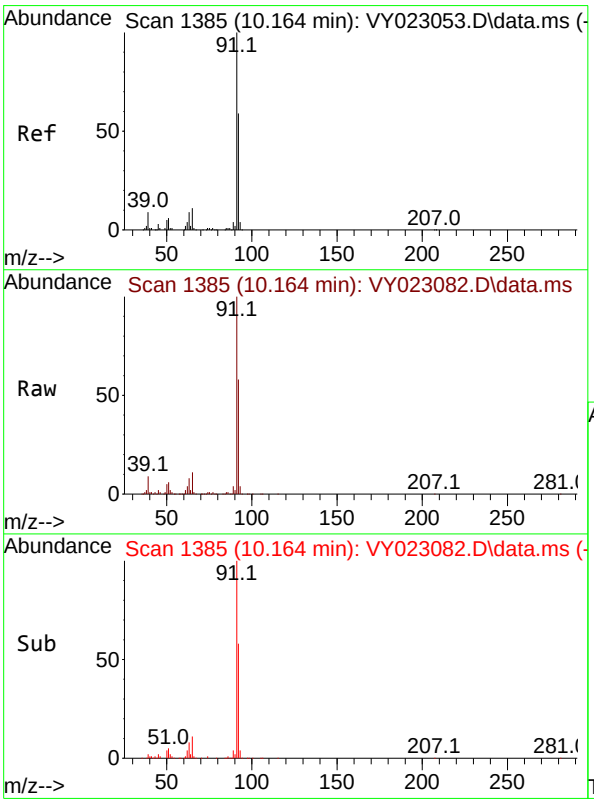
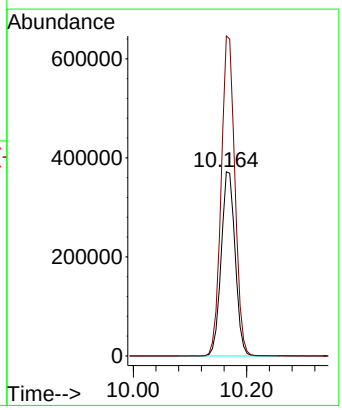
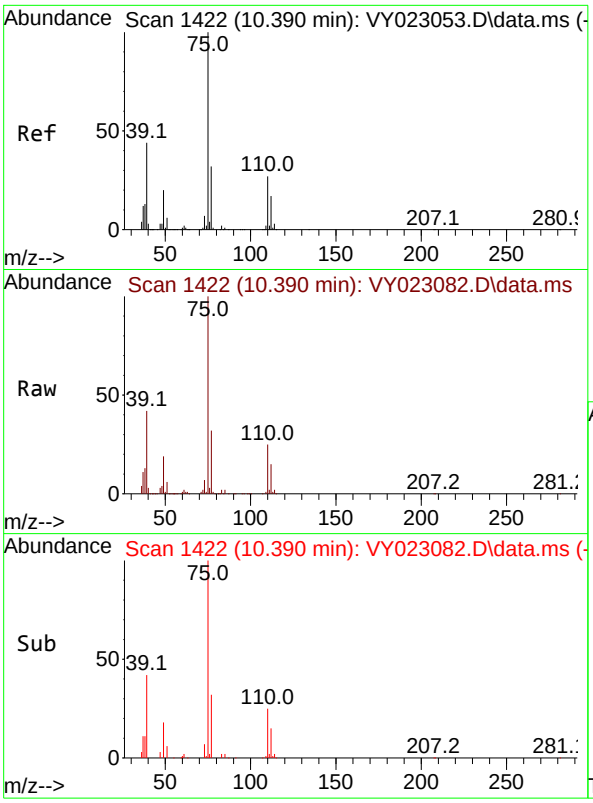


#52
Toluene
Concen: 49.890 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 92 Resp: 634517

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.4	204.6





#53
t-1,3-Dichloropropene
Concen: 47.408 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 29212

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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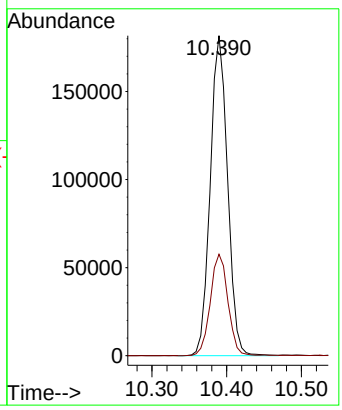
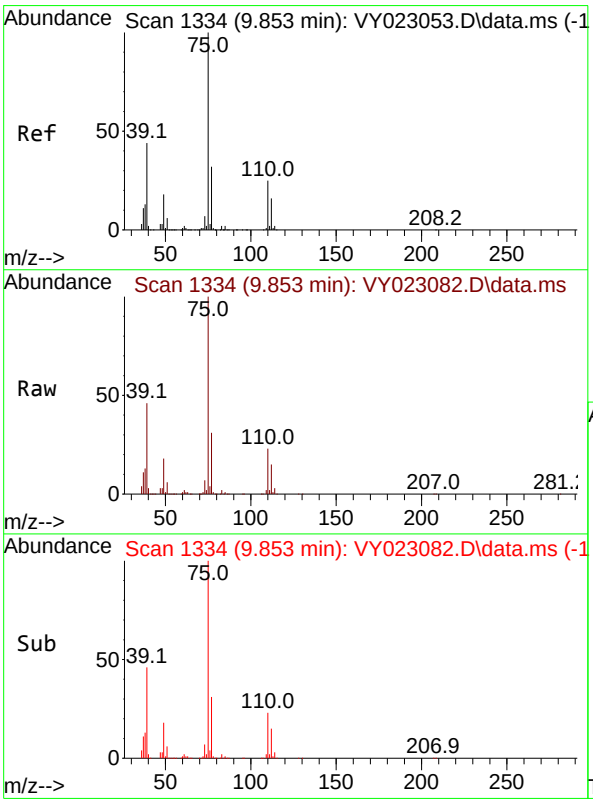
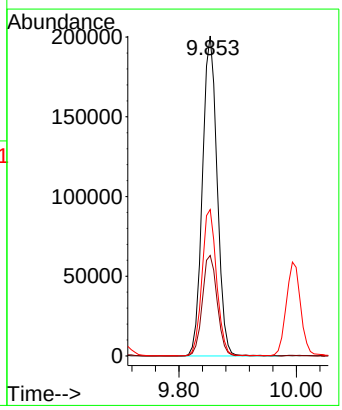


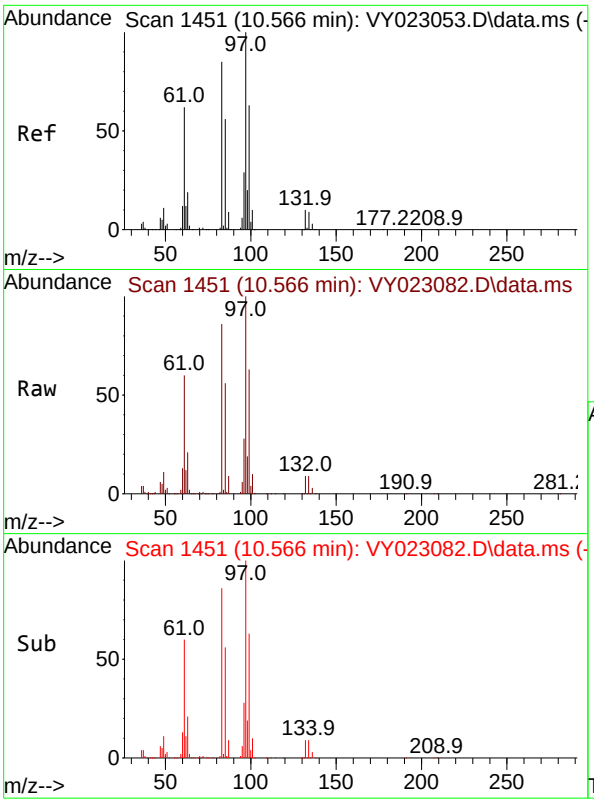


#54
cis-1,3-Dichloropropene
Concen: 47.881 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 348886

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	45.7	35.6	53.4

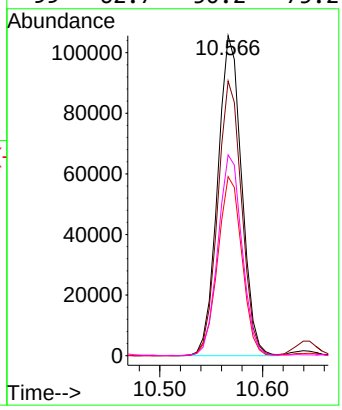




#55
1,1,2-Trichloroethane
Concen: 48.399 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 97 Resp: 17127

Ion	Ratio	Lower	Upper
97	100		
83	85.9	67.7	101.5
85	55.9	44.5	66.7
99	62.7	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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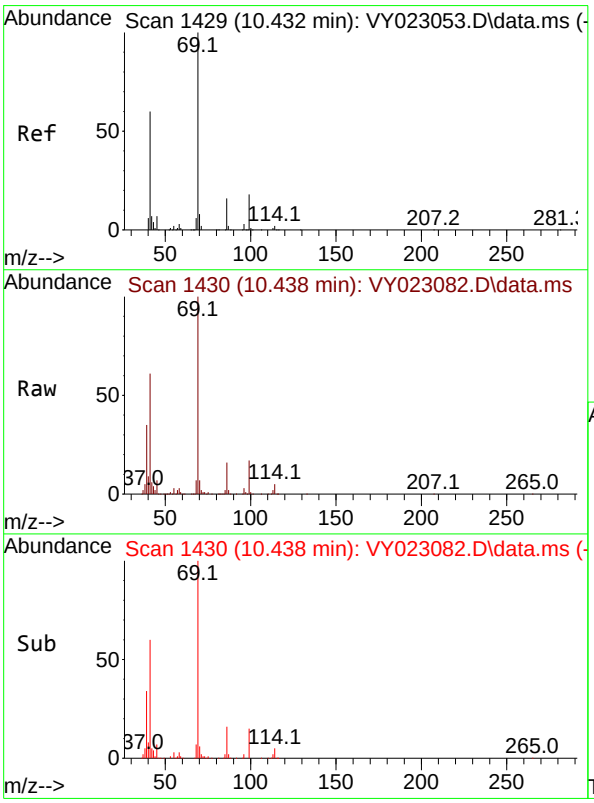
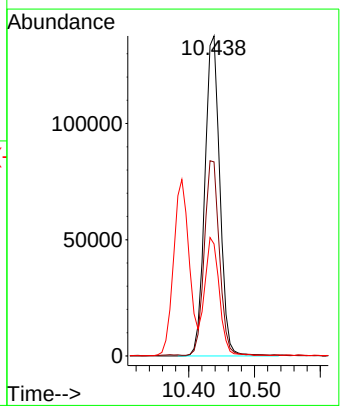
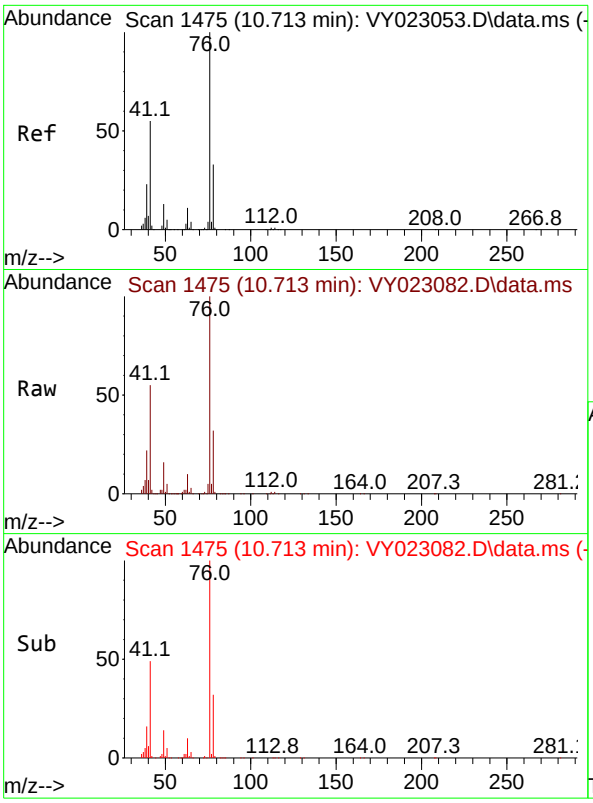


#56
Ethyl methacrylate
Concen: 48.164 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 69 Resp: 218091

Ion	Ratio	Lower	Upper
69	100		
41	61.3	48.6	72.8
39	35.8	27.0	40.4

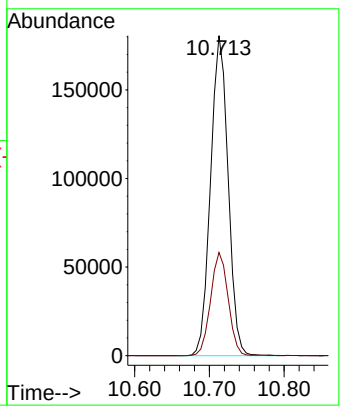




#57
1,3-Dichloropropane
Concen: 49.039 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 76 Resp: 29430

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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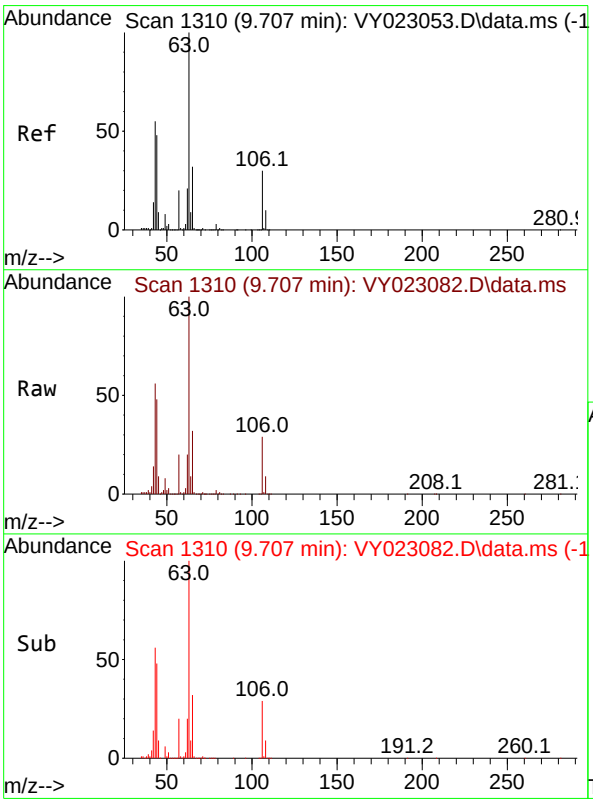
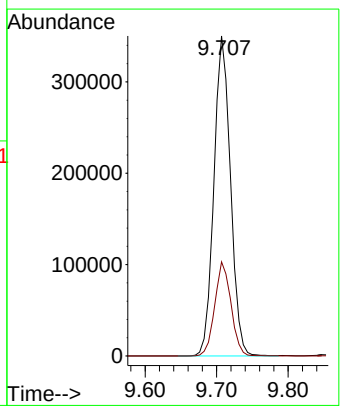
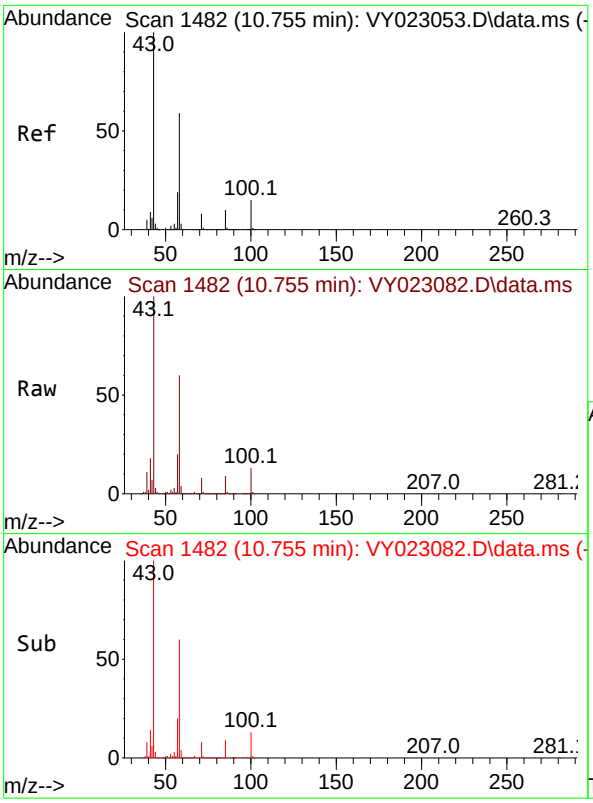


#58
2-Chloroethyl Vinyl ether
Concen: 263.718 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 563277

Ion	Ratio	Lower	Upper
63	100		
106	28.8	23.2	34.8





#59
2-Hexanone
Concen: 229.542 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 44474

Ion	Ratio	Lower	Upper
43	100		
58	59.4	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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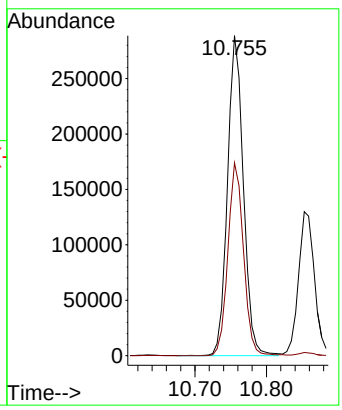
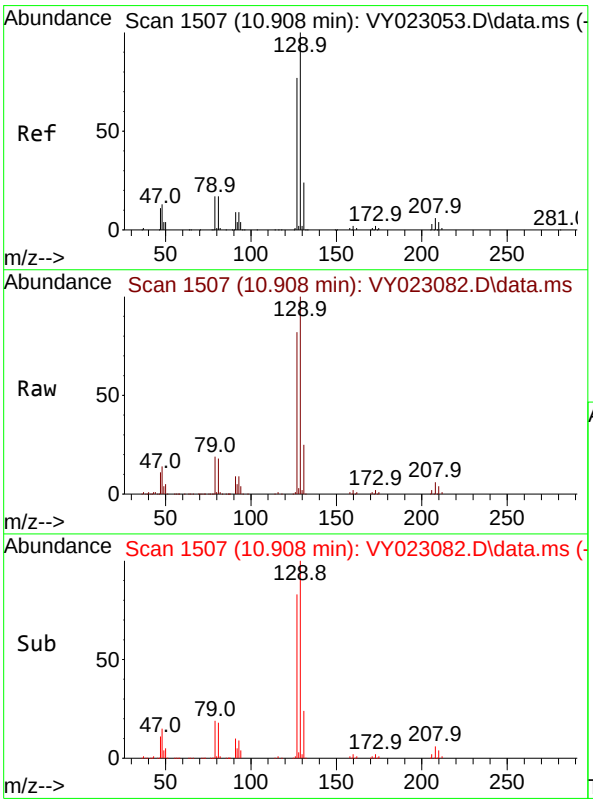
Supervised By :Semsettin Yesilyurt 08/19/2025

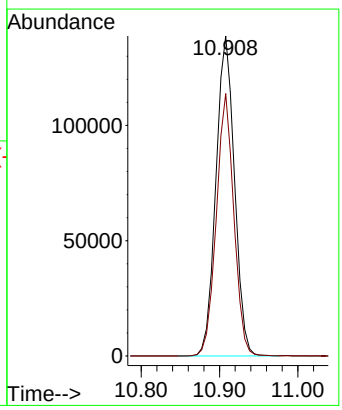


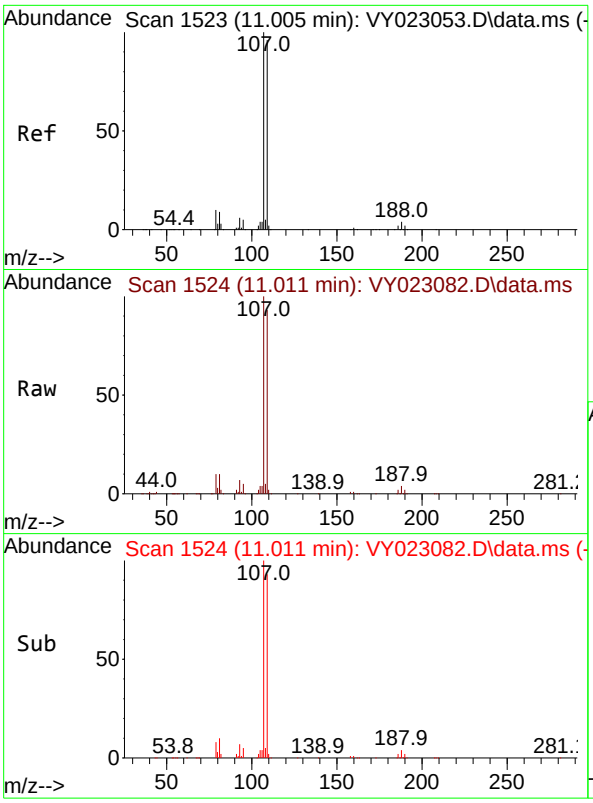


#60
Dibromochloromethane
Concen: 48.956 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:129 Resp: 228588

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.5

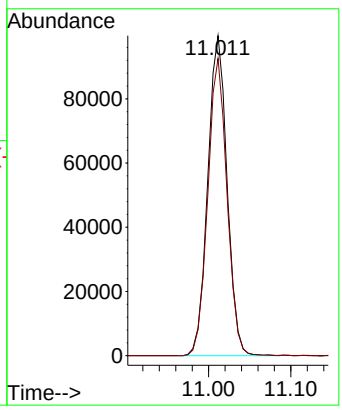




#61
1,2-Dibromoethane
Concen: 48.817 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:107 Resp: 16236

Ion	Ratio	Lower	Upper
107	100		
109	92.4	75.6	113.4



Instrument :
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ClientSampleId :
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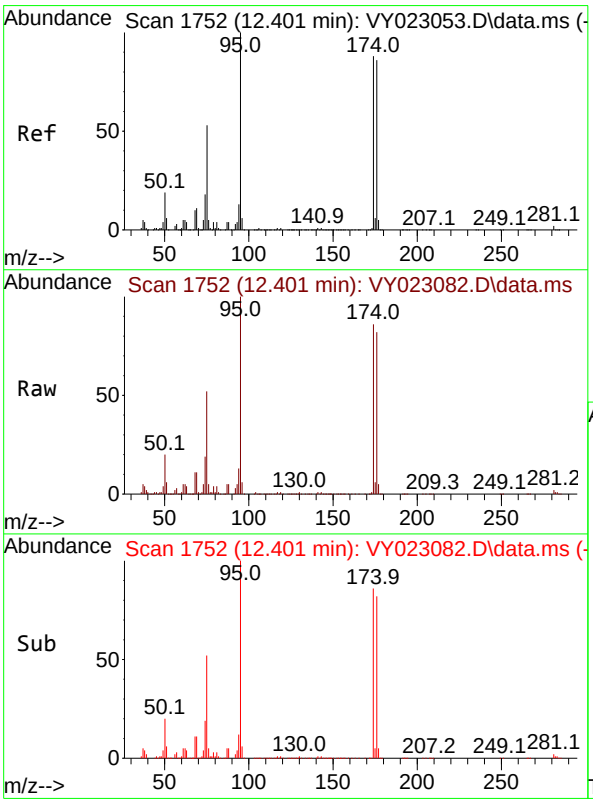
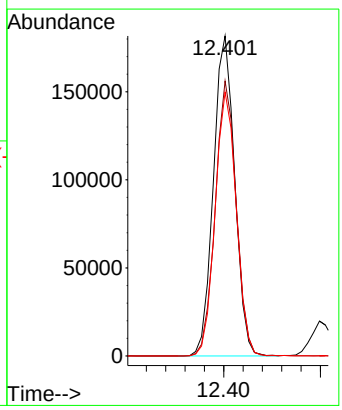
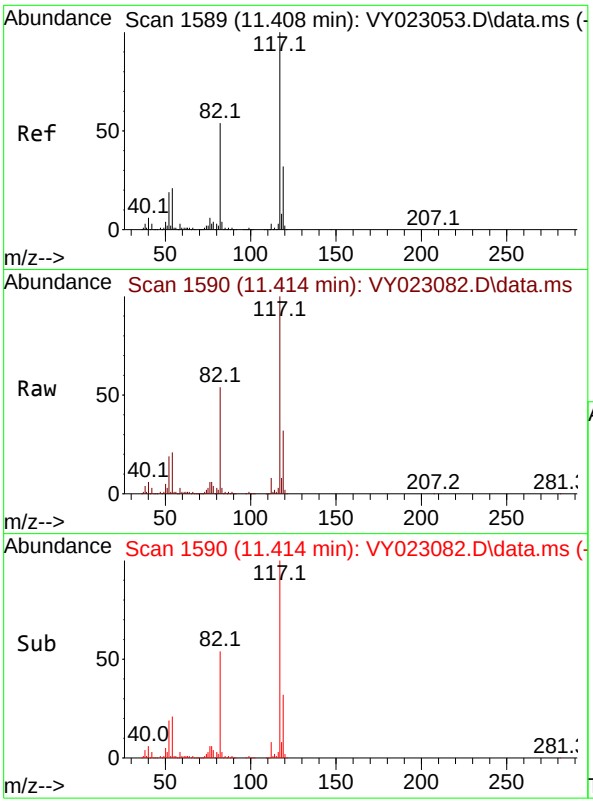


#62
4-Bromofluorobenzene
Concen: 50.453 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 95 Resp: 277110

Ion	Ratio	Lower	Upper
95	100		
174	84.6	0.0	171.6
176	82.0	0.0	167.6

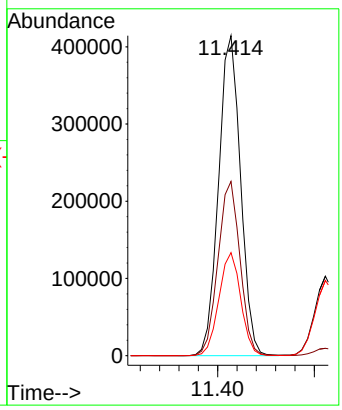




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 65317

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	32.2	25.6	38.4



Instrument :
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ClientSampleId :
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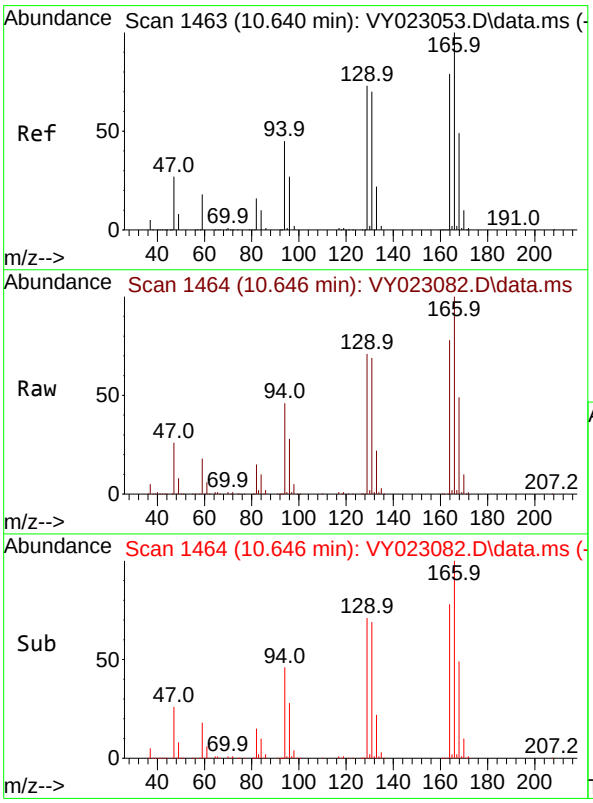
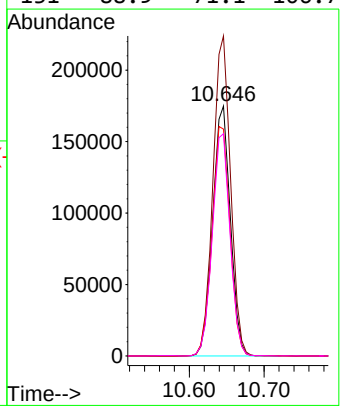
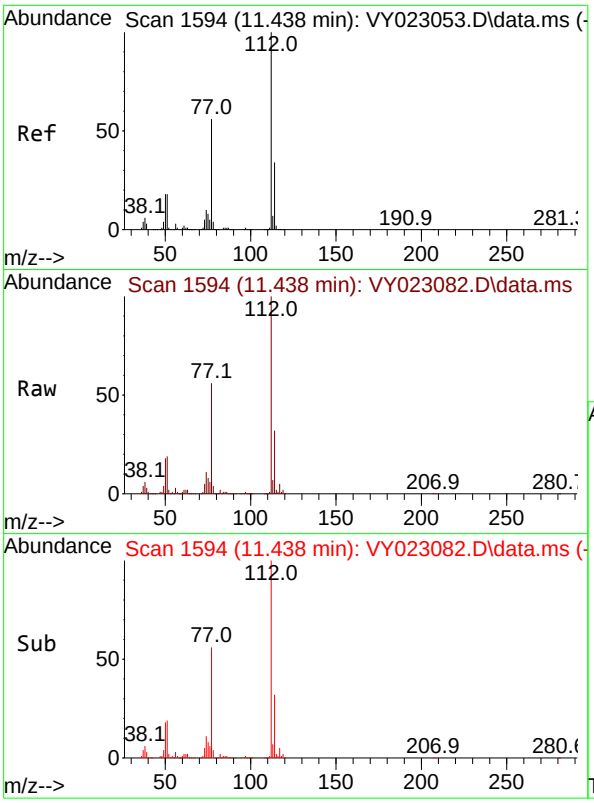


#64
Tetrachloroethene
Concen: 49.476 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:164 Resp: 288562

Ion	Ratio	Lower	Upper
164	100		
166	128.1	101.1	151.7
129	90.8	74.0	111.0
131	88.9	71.1	106.7

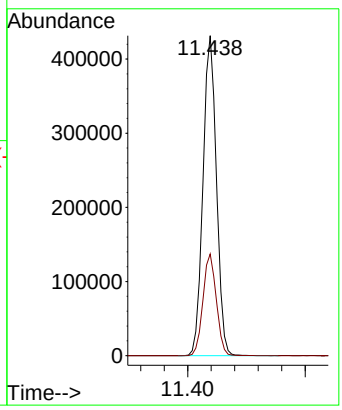




#65
Chlorobenzene
Concen: 48.595 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:112 Resp: 68464

Ion	Ratio	Lower	Upper
112	100		
114	31.8	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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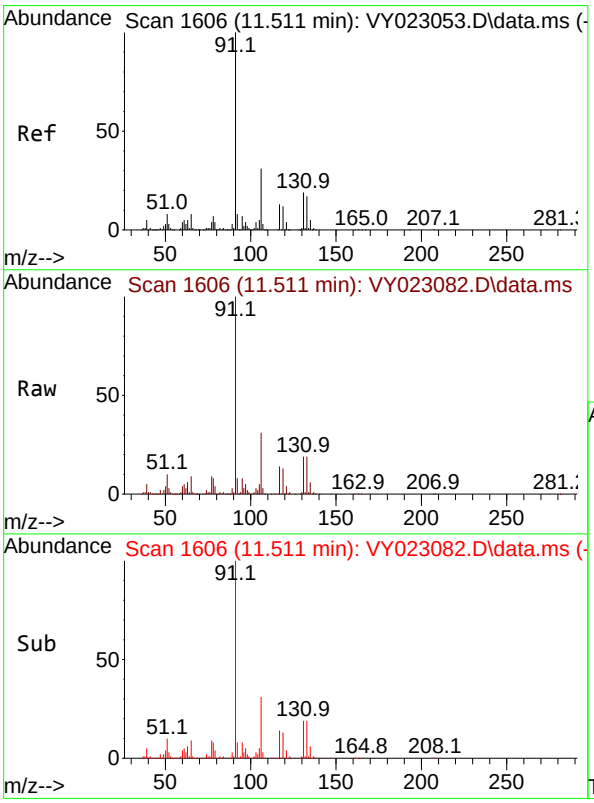
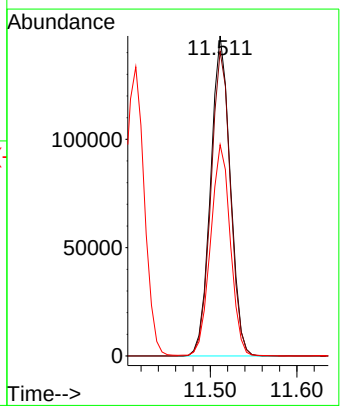
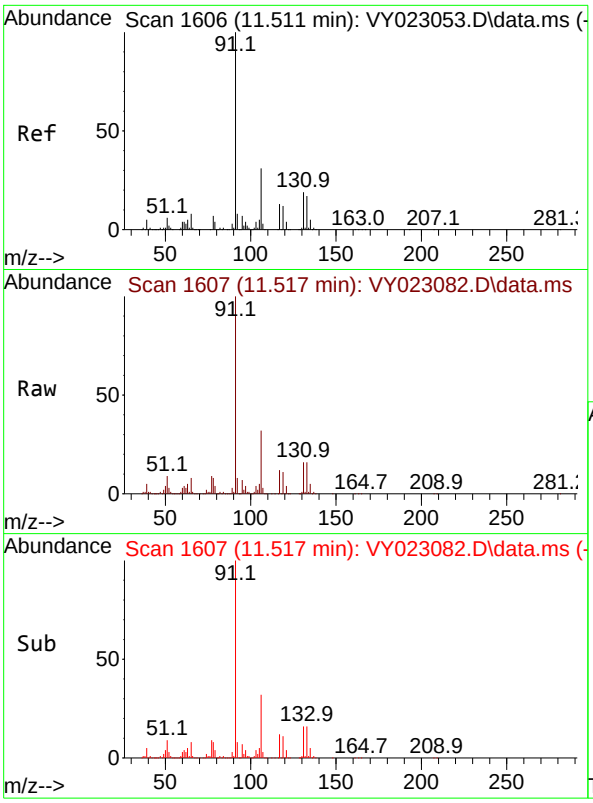


#66
1,1,1,2-Tetrachloroethane
Concen: 48.615 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:131 Resp: 232459

Ion	Ratio	Lower	Upper
131	100		
133	95.0	46.9	140.6
119	66.7	33.2	99.6

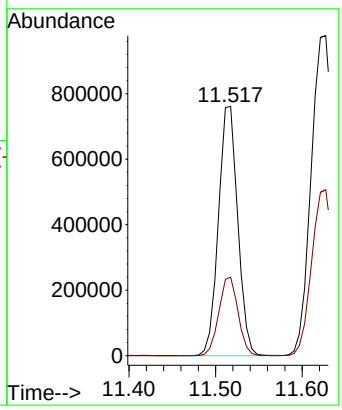




#67
Ethyl Benzene
Concen: 48.633 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 117913

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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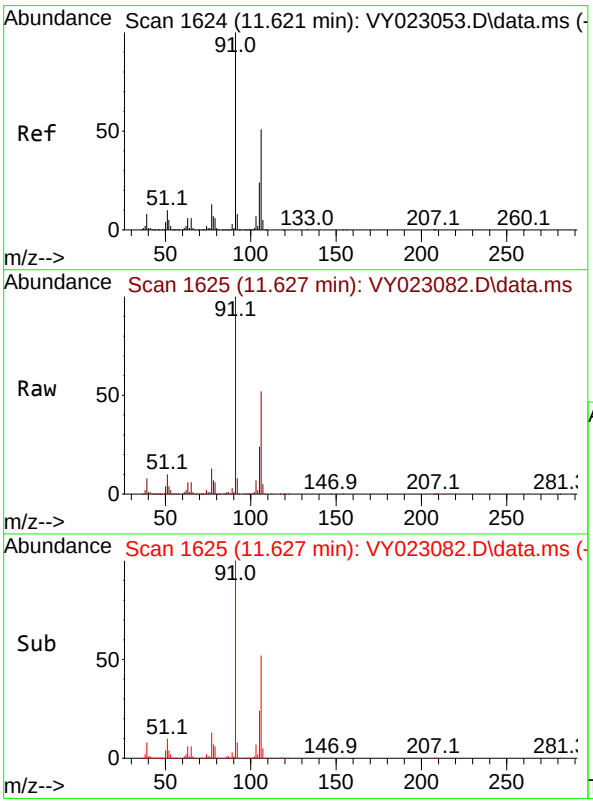
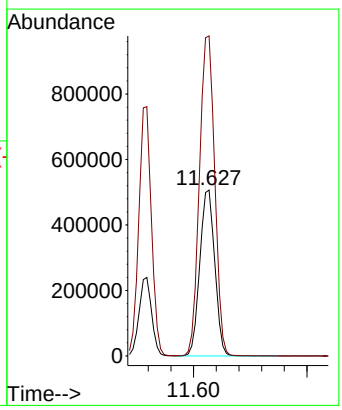
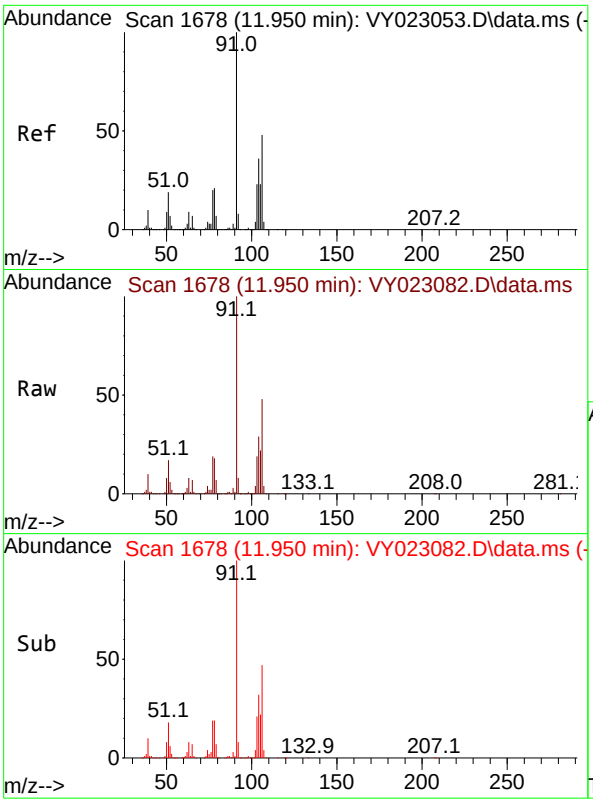


#68
m/p-Xylenes
Concen: 98.062 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:106 Resp: 928592

Ion	Ratio	Lower	Upper
106	100		
91	197.0	158.6	238.0

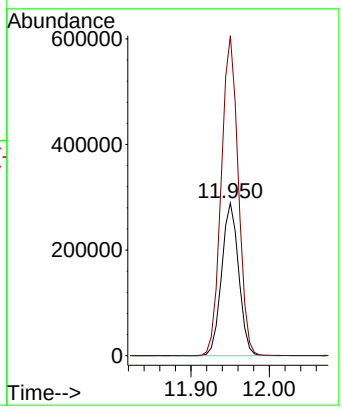




#69
o-Xylene
Concen: 49.346 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:106 Resp: 43764

Ion	Ratio	Lower	Upper
106	100		
91	209.1	103.2	309.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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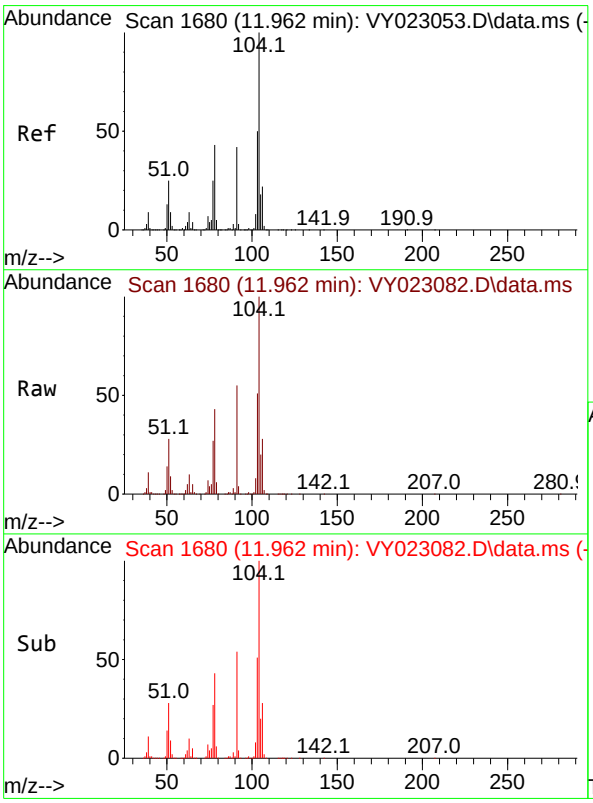
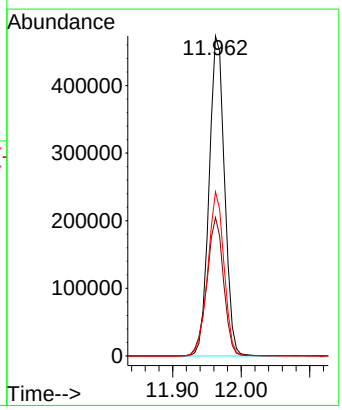
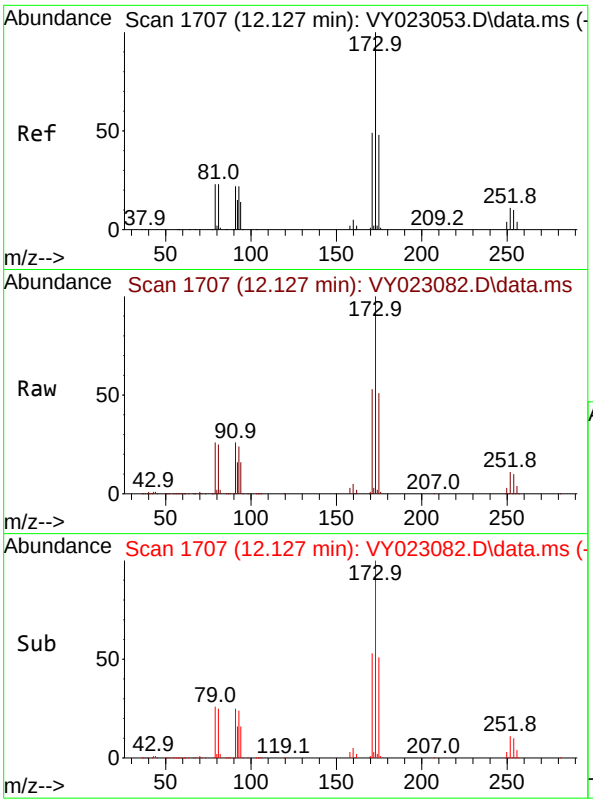


#70
Styrene
Concen: 51.107 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:104 Resp: 741269

Ion	Ratio	Lower	Upper
104	100		
78	46.9	38.5	57.7
103	54.1	43.7	65.5





#71
Bromoform
Concen: 45.809 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:173 Resp: 12802

Ion	Ratio	Lower	Upper
173	100		
175	50.0	23.9	71.7
254	0.2	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
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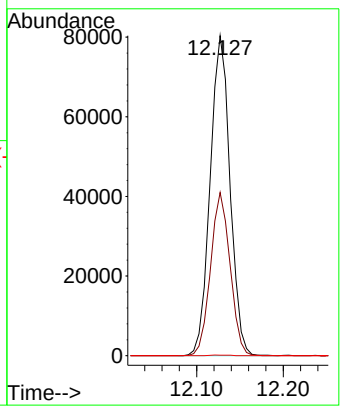
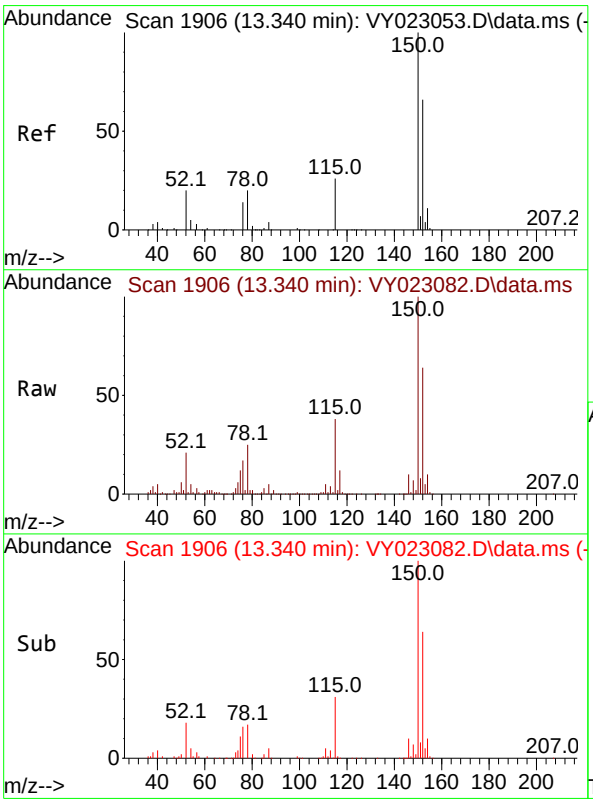
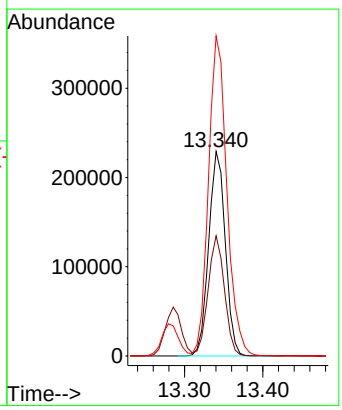


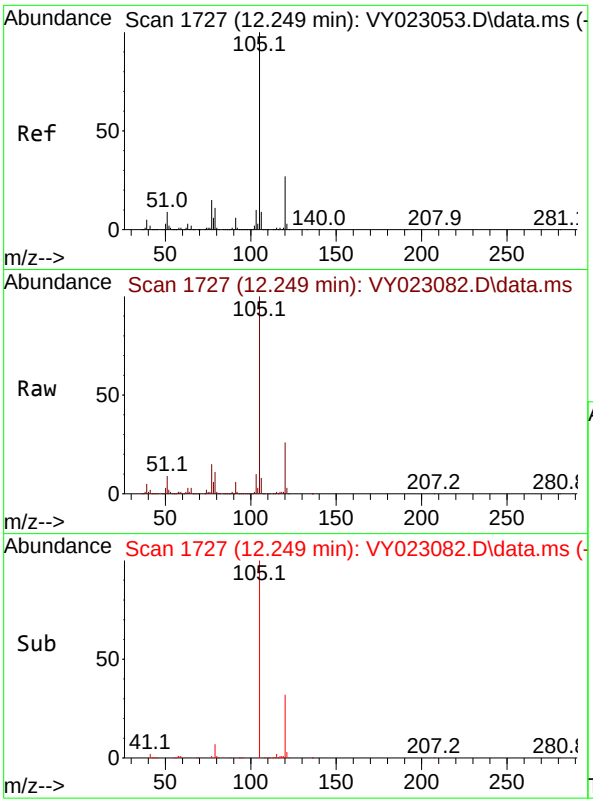


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:152 Resp: 337955

Ion	Ratio	Lower	Upper
152	100		
115	57.6	28.2	84.6
150	172.7	0.0	348.0

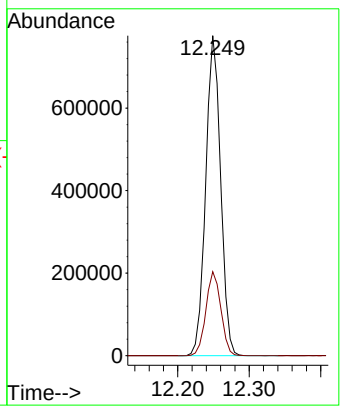




#73
Isopropylbenzene
Concen: 46.989 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 112080

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
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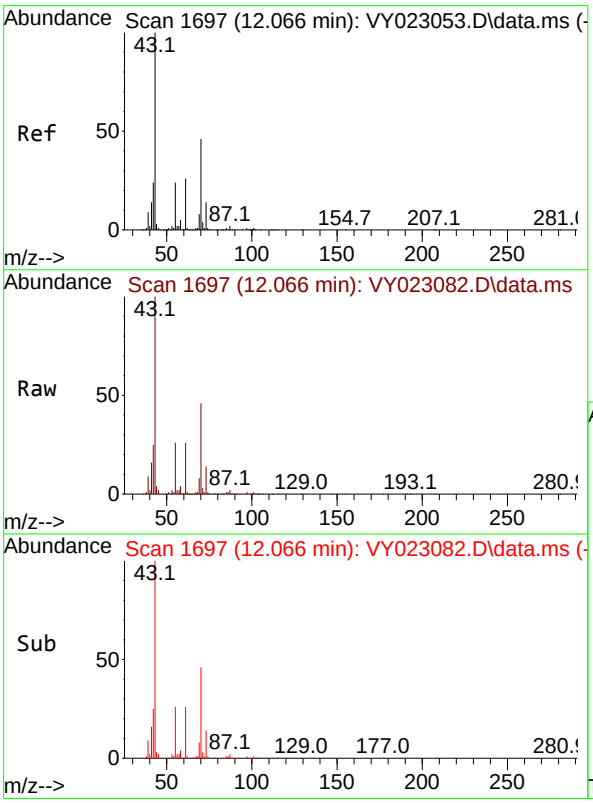
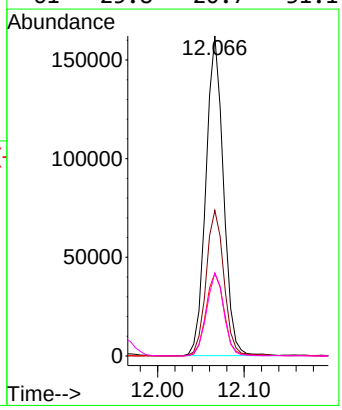
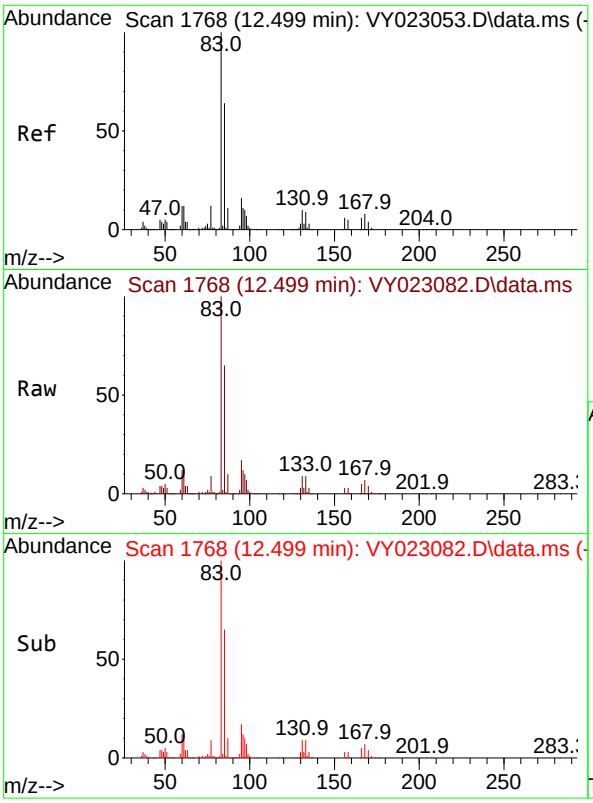


#74
N-amyl acetate
Concen: 45.070 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 227982

Ion	Ratio	Lower	Upper
43	100		
70	46.7	37.5	56.3
55	27.0	20.7	31.1
61	25.8	20.7	31.1

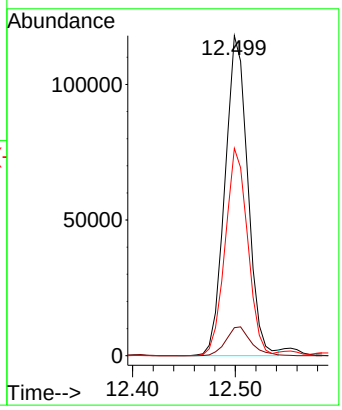




#75
1,1,2,2-Tetrachloroethane
Concen: 44.662 ug/l
RT: 12.499 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 18189

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.3
85	64.0	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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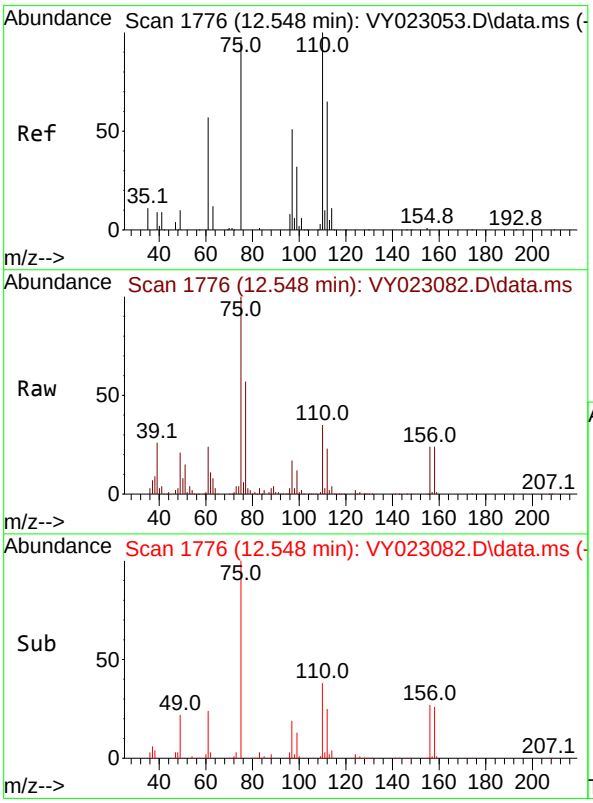
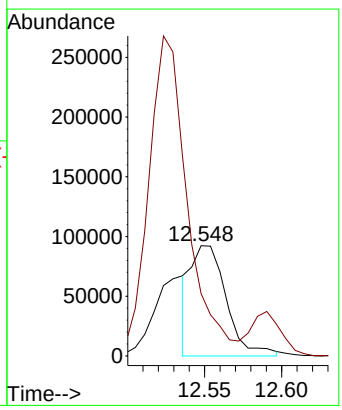
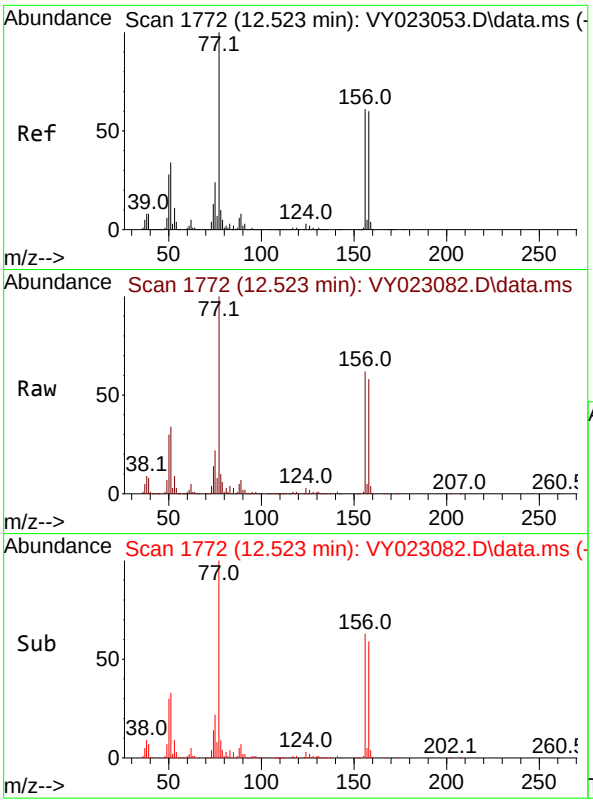


#76
1,2,3-Trichloropropane
Concen: 45.368 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 147973

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

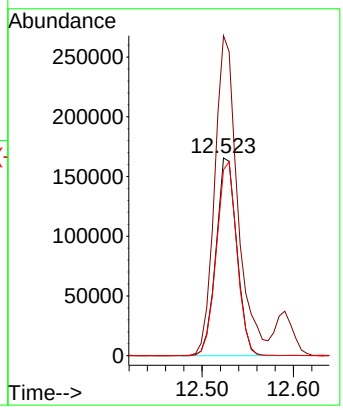




#77
Bromobenzene
Concen: 45.880 ug/l
RT: 12.523 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:156 Resp: 26108

Ion	Ratio	Lower	Upper
156	100		
77	179.7	88.1	264.4
158	97.1	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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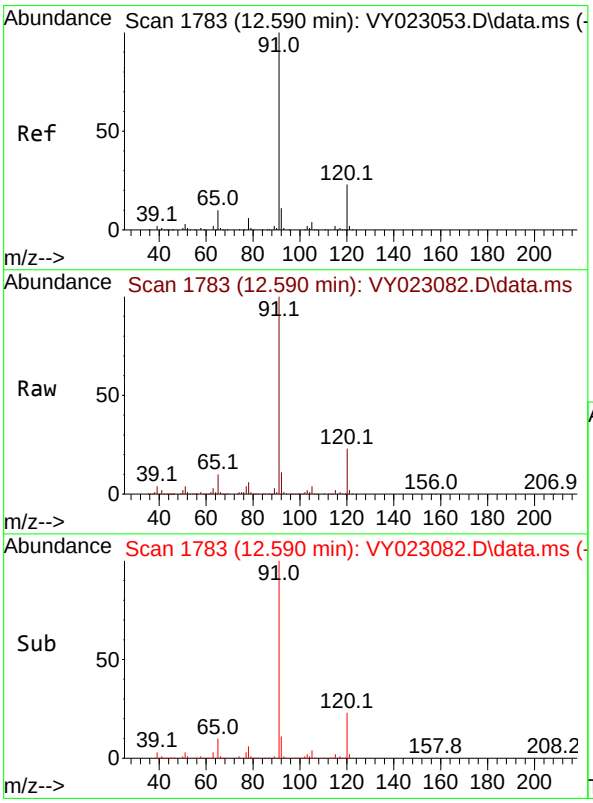
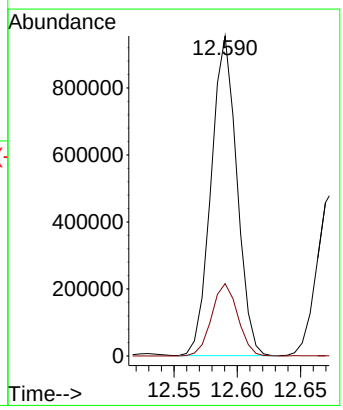
Supervised By :Semsettin Yesilyurt 08/19/2025

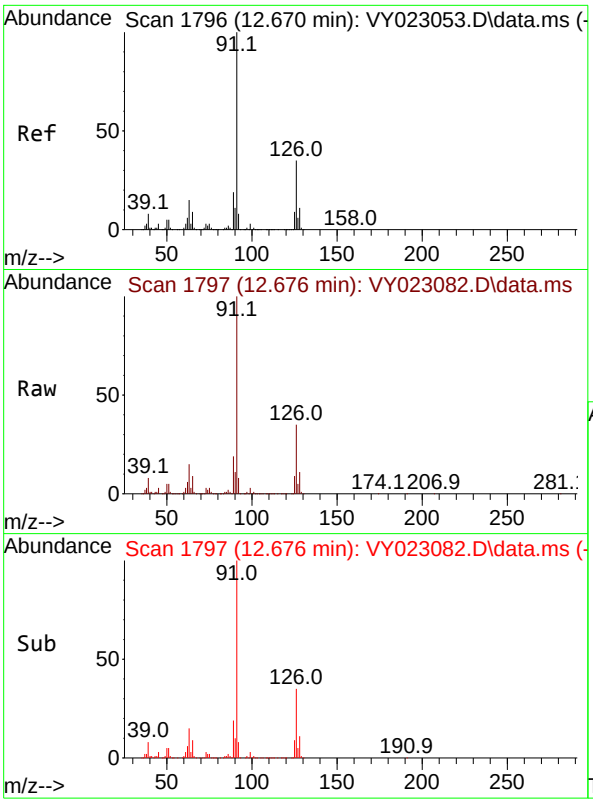


#78
n-propylbenzene
Concen: 47.608 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 1351965

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5

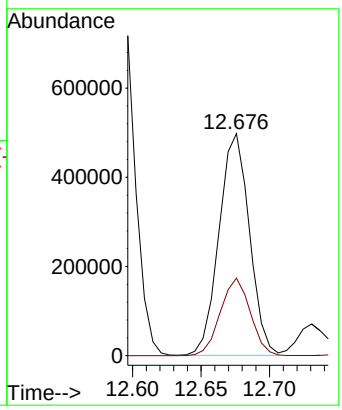




#79
2-Chlorotoluene
Concen: 47.220 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 76831

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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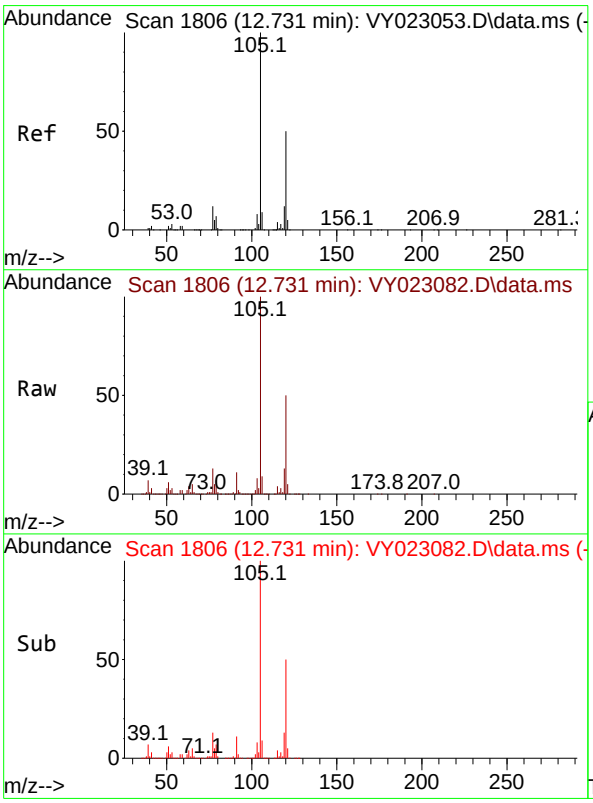
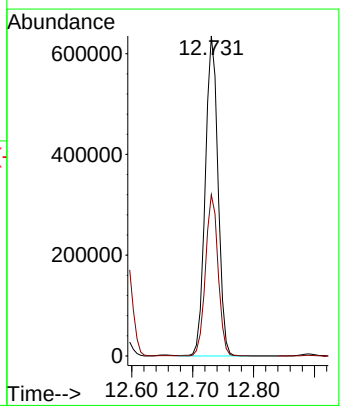
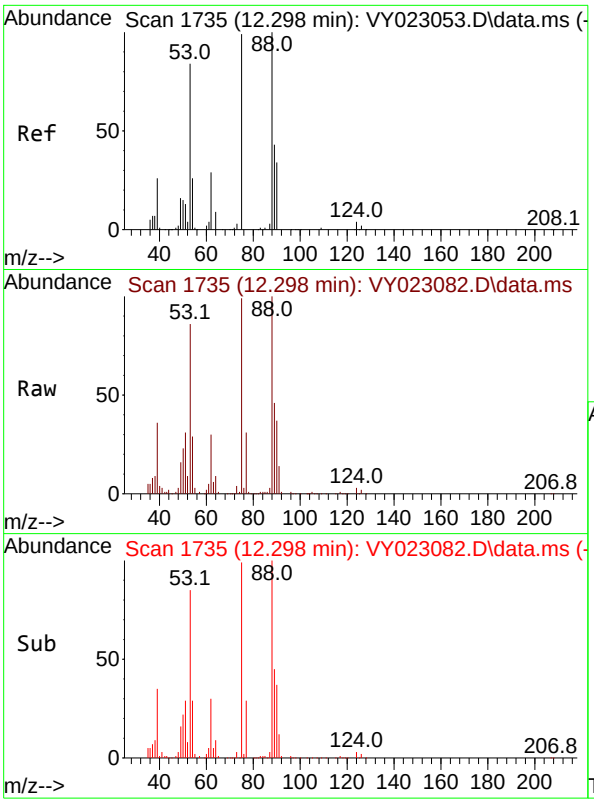


#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 925355

Ion	Ratio	Lower	Upper
105	100		
120	49.9	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 41.468 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 5587

Ion	Ratio	Lower	Upper
75	100		
53	89.1	70.8	106.2
89	46.0	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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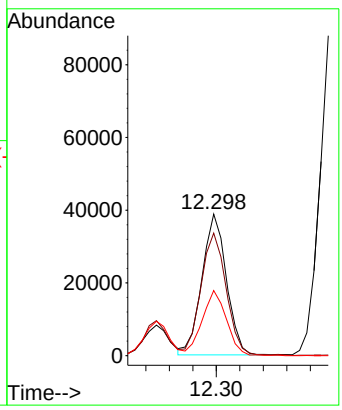
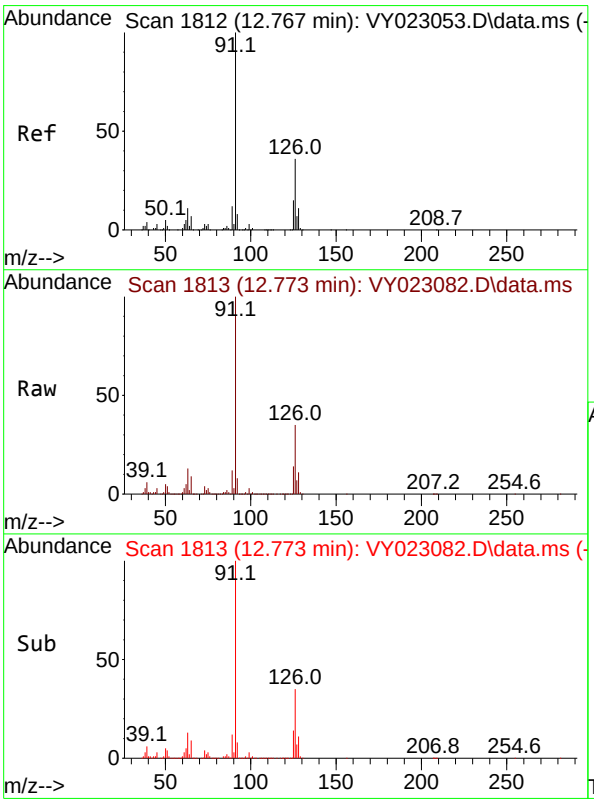
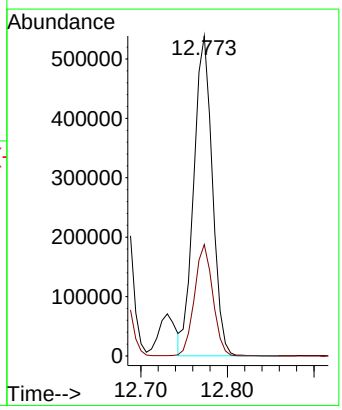


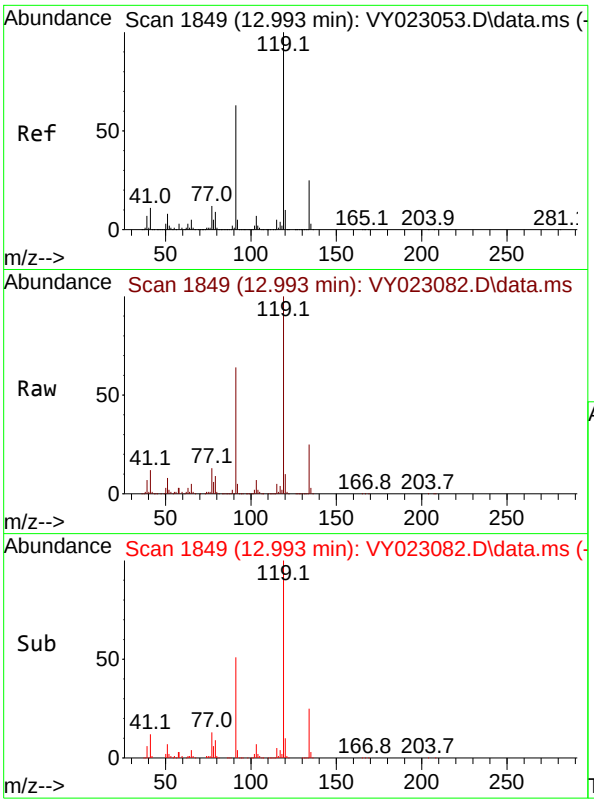


#82
4-Chlorotoluene
Concen: 47.468 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 801214

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.3	52.0

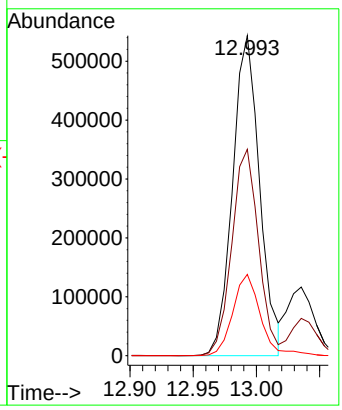




#83
tert-Butylbenzene
Concen: 46.538 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:119 Resp: 81025

Ion	Ratio	Lower	Upper
119	100		
91	63.8	31.6	94.8
134	26.0	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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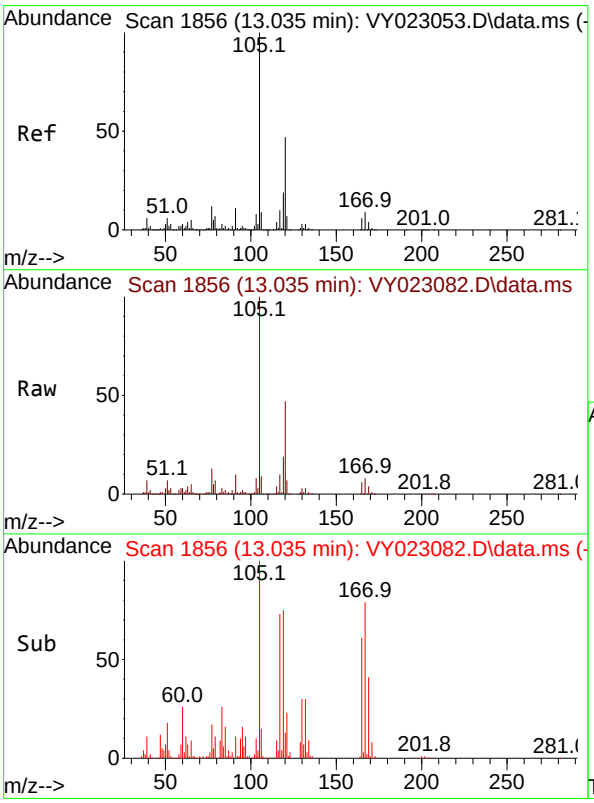
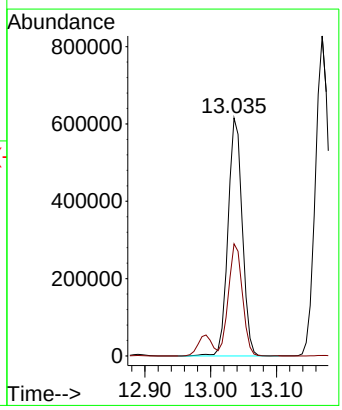
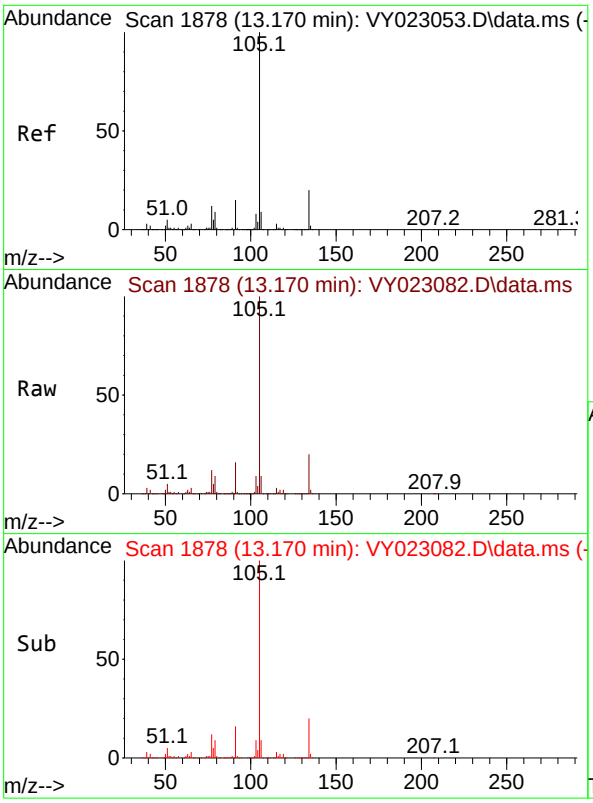


#84
1,2,4-Trimethylbenzene
Concen: 48.337 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 927586

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0

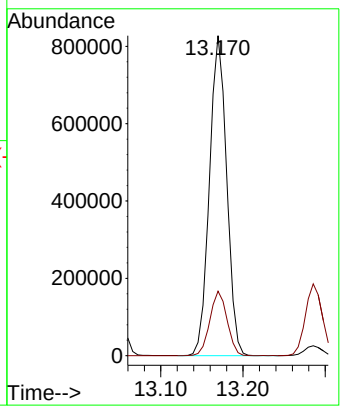




#85
sec-Butylbenzene
Concen: 47.086 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 120428

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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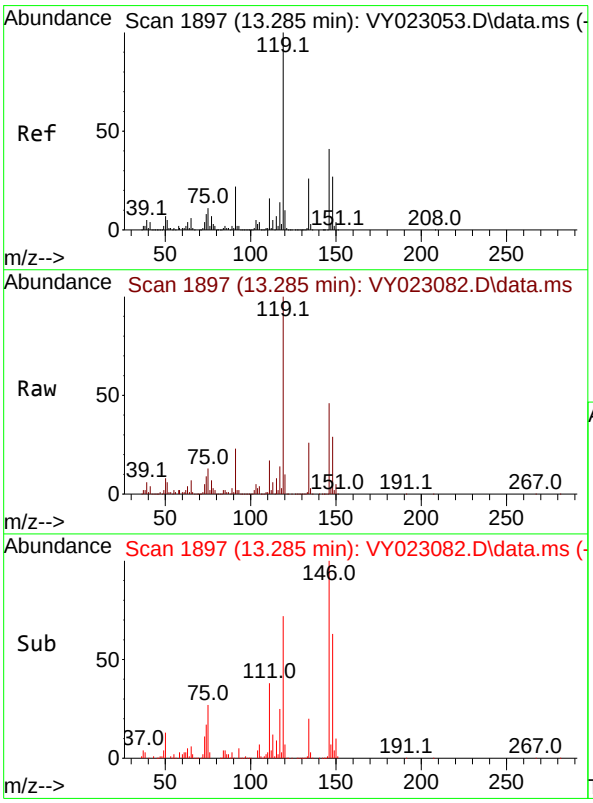
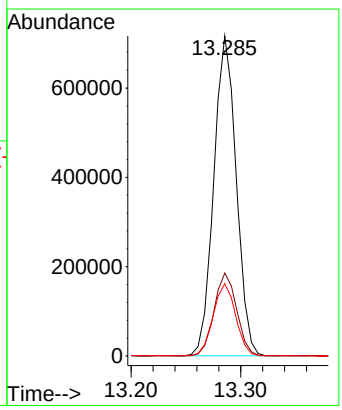
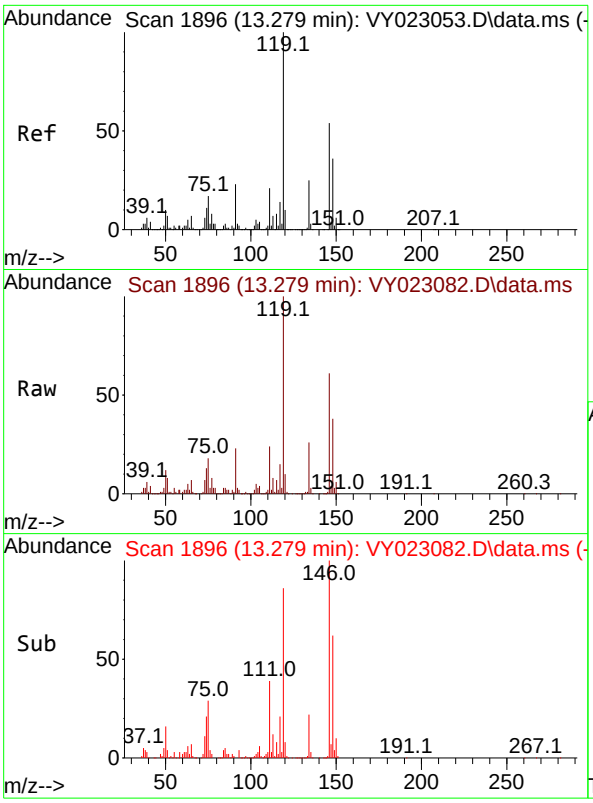


#86
p-Isopropyltoluene
Concen: 48.033 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:119 Resp: 1019726

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.2	39.6
91	22.7	11.3	33.8

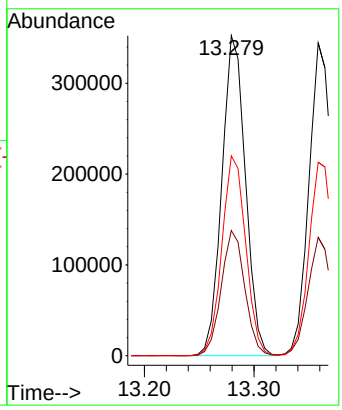




#87
1,3-Dichlorobenzene
Concen: 46.997 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 52739

Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.6	58.7
148	63.1	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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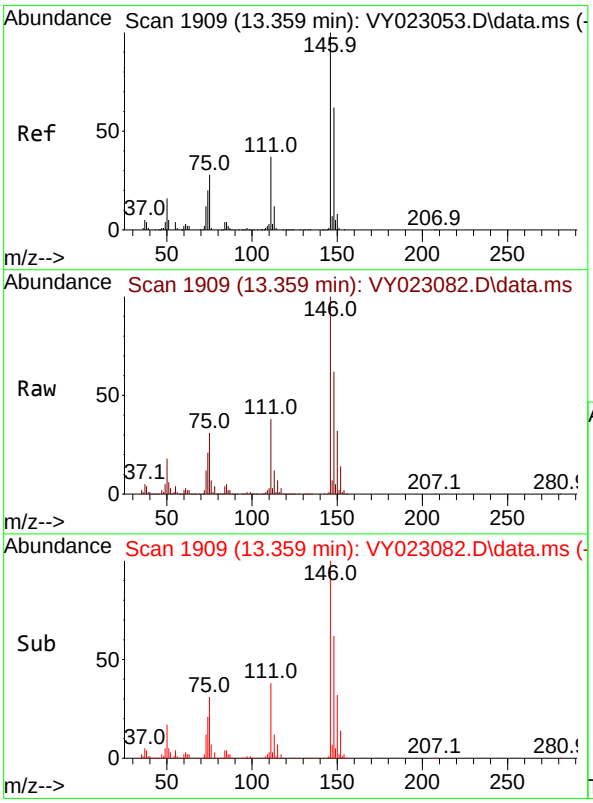
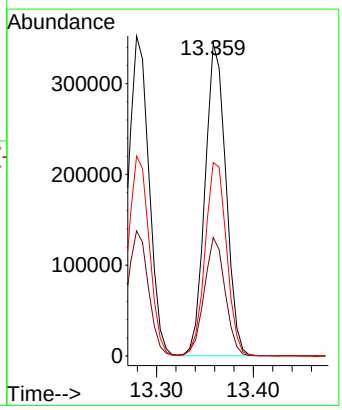
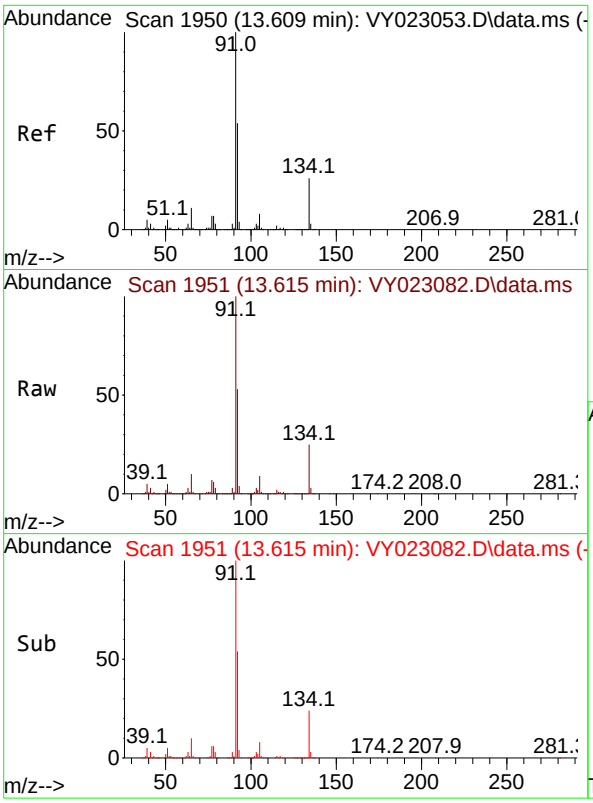


#88
1,4-Dichlorobenzene
Concen: 46.447 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 517037

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.1
148	63.9	31.6	94.7

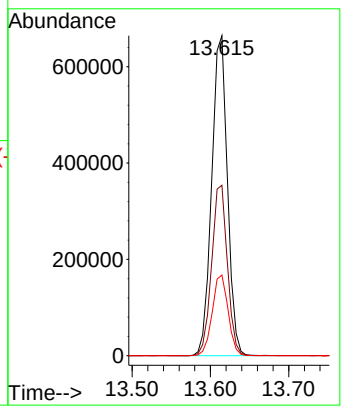




#89
n-Butylbenzene
Concen: 47.492 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 92600

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.9	80.7
134	25.5	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
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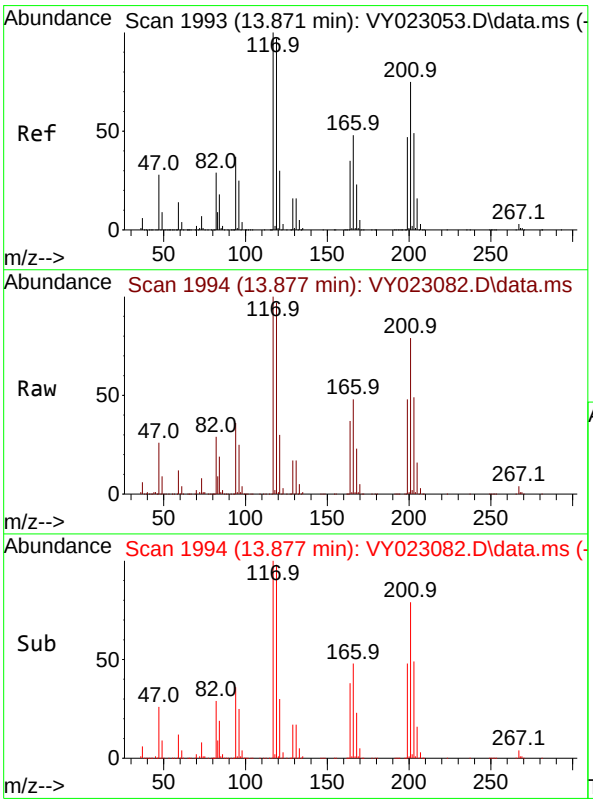
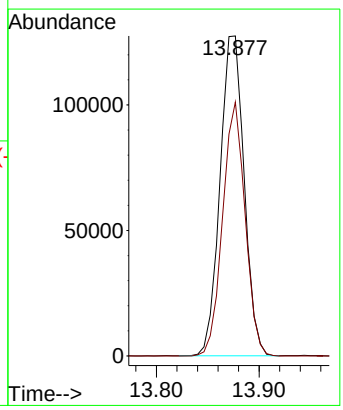
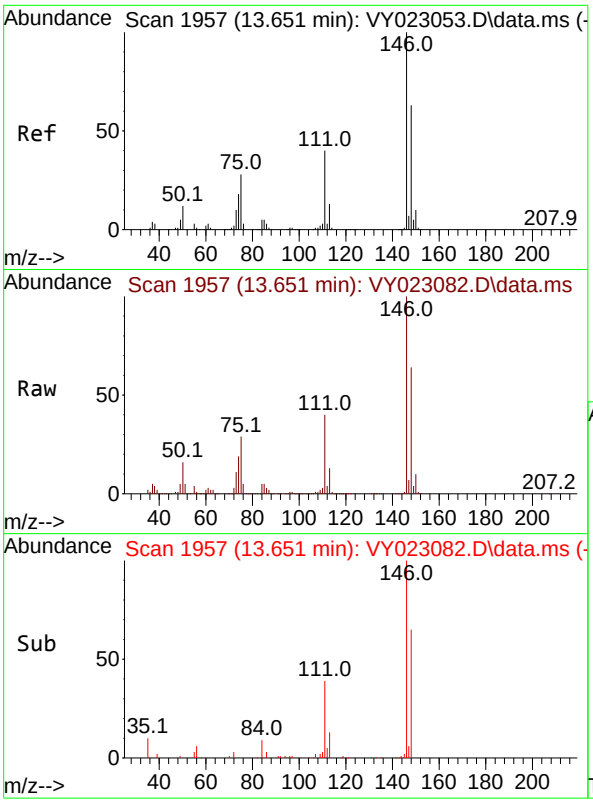


#90
Hexachloroethane
Concen: 47.698 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 207292

Ion	Ratio	Lower	Upper
117	100		
201	73.9	38.4	115.1

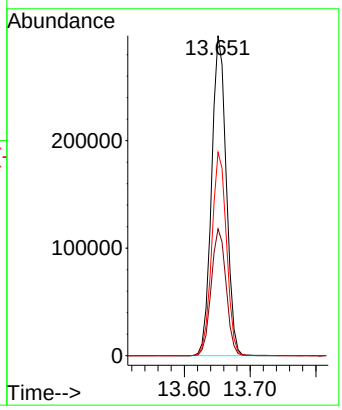




#91
1,2-Dichlorobenzene
Concen: 46.764 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 46022

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.8
148	63.8	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
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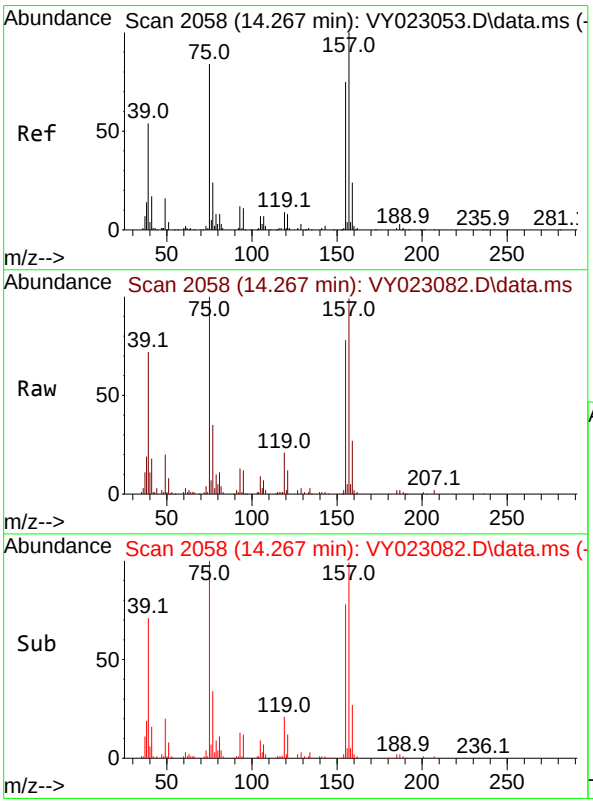
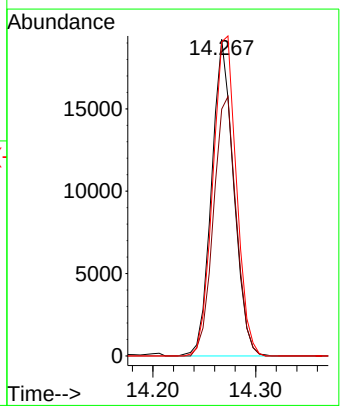
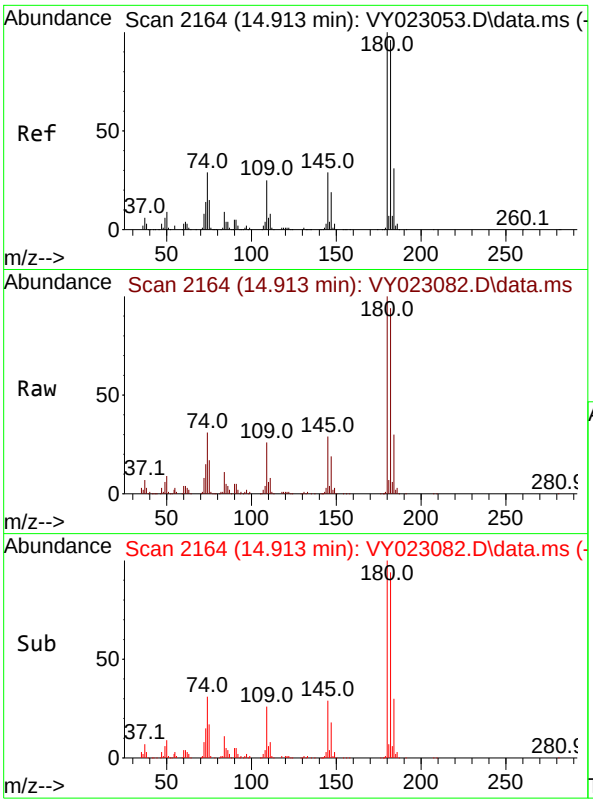


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.213 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 28670

Ion	Ratio	Lower	Upper
75	100		
155	84.2	43.9	131.6
157	107.8	57.2	171.6

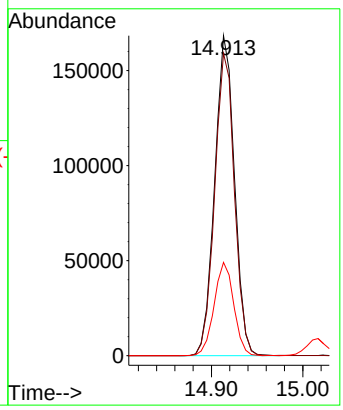




#93
1,2,4-Trichlorobenzene
Concen: 43.501 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:180 Resp: 25317

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.8	140.4
145	29.0	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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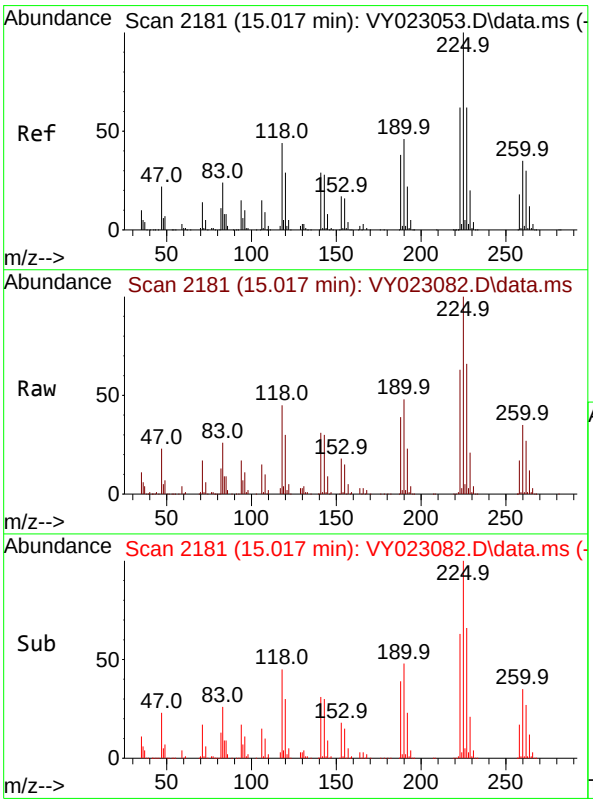
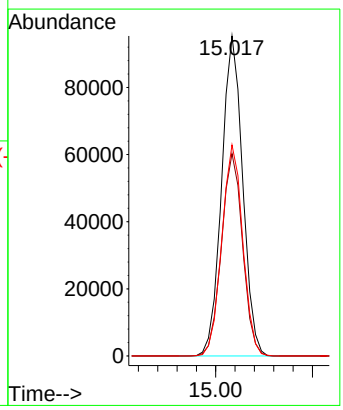
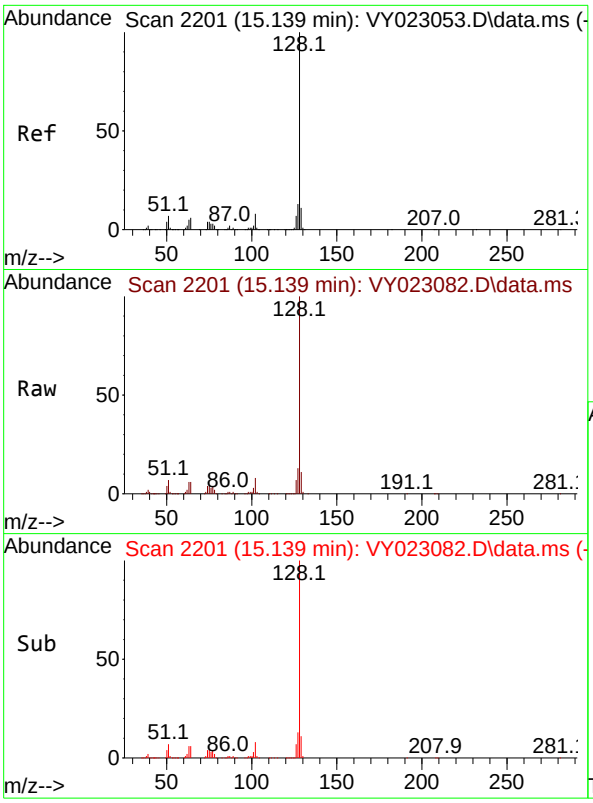


#94
Hexachlorobutadiene
Concen: 41.989 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:225 Resp: 143600

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.3	93.8
227	65.6	31.5	94.5

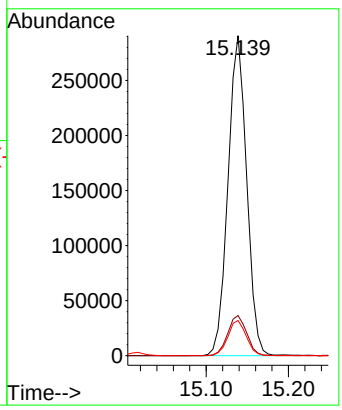




#95
Naphthalene
Concen: 46.256 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:128 Resp: 45904

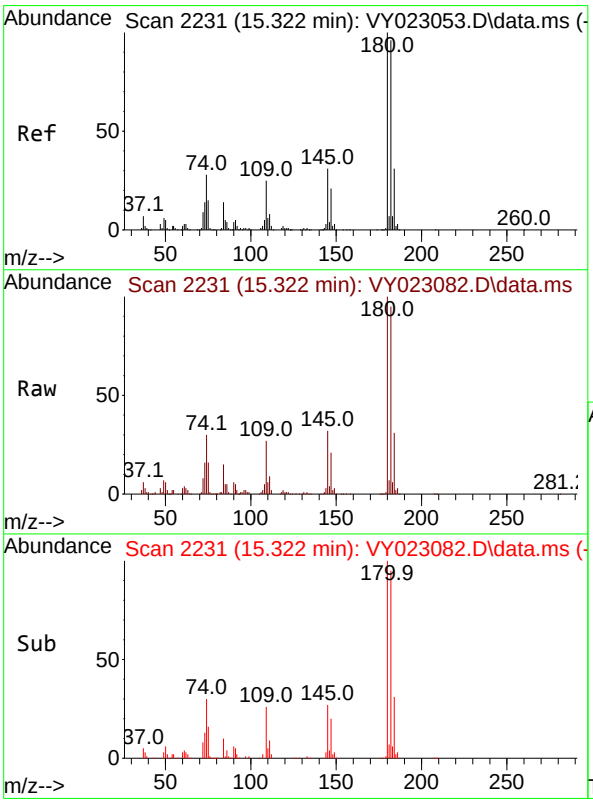
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.9	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

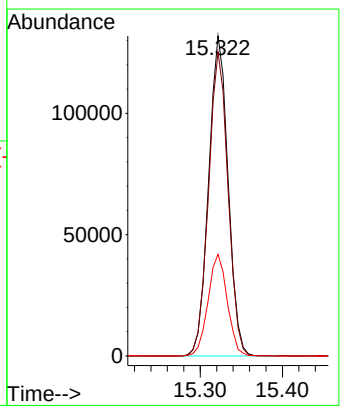
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 43.140 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:180 Resp: 216348

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.9	143.7
145	31.4	15.9	47.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:01:03 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	0.319	21.8	75	0.00
3	P	Chloromethane	0.661	0.681	-3.0	92	0.00
4	C	Vinyl Chloride	0.817	0.849	-3.9#	91	0.00
5	T	Bromomethane	0.610	0.682	-11.8	104	0.00
6	T	Chloroethane	0.543	0.596	-9.8	95	0.00
7	T	Trichlorofluoromethane	0.994	0.946	4.8	83	0.00
8	T	Diethyl Ether	0.263	0.249	5.3	81	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.456	6.9	81	0.00
10	T	Methyl Iodide	0.529	0.503	4.9	75	0.00
11	T	Tert butyl alcohol	0.033	0.029	12.1	74	0.00
12	CM	1,1-Dichloroethene	0.482	0.454	5.8#	81	0.00
13	T	Acrolein	0.048	0.034	29.2#	61	0.00
14	T	Allyl chloride	0.709	0.677	4.5	81	0.00
15	T	Acrylonitrile	0.107	0.104	2.8	80	0.00
16	T	Acetone	0.103	0.082	20.4	65	0.01
17	T	Carbon Disulfide	1.571	1.489	5.2	82	0.00
18	T	Methyl Acetate	0.307	0.326	-6.2	83	0.00
19	T	Methyl tert-butyl Ether	1.249	1.220	2.3	81	0.00
20	T	Methylene Chloride	0.620	0.555	10.5	89	0.00
21	T	trans-1,2-Dichloroethene	0.541	0.540	0.2	85	0.00
22	T	Diisopropyl ether	1.541	1.570	-1.9	85	0.00
23	T	Vinyl Acetate	0.852	0.808	5.2	79	0.00
24	P	1,1-Dichloroethane	0.942	0.958	-1.7	86	0.00
25	T	2-Butanone	0.140	0.126	10.0	73	0.00
26	T	2,2-Dichloropropane	0.813	0.711	12.5	74	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.633	-1.1	86	0.00
28	T	Bromochloromethane	0.374	0.394	-5.3	89	0.00
29	T	Tetrahydrofuran	0.087	0.083	4.6	78	0.00
30	C	Chloroform	0.971	0.998	-2.8#	87	0.00
31	T	Cyclohexane	0.888	0.805	9.3	81	0.00
32	T	1,1,1-Trichloroethane	0.862	0.850	1.4	83	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.490	-2.7	87	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35	S	Dibromofluoromethane	0.299	0.298	0.3	87	0.00
36	T	1,1-Dichloropropene	0.445	0.422	5.2	83	0.00
37	T	Ethyl Acetate	0.187	0.166	11.2	75	0.00
38	T	Carbon Tetrachloride	0.483	0.456	5.6	83	0.00
39	T	Methylcyclohexane	0.586	0.544	7.2	82	0.00
40	TM	Benzene	1.370	1.347	1.7	86	0.00
41	T	Methacrylonitrile	0.108	0.108	0.0	84	0.00
42	TM	1,2-Dichloroethane	0.356	0.351	1.4	86	0.00
43	T	Isopropyl Acetate	0.378	0.348	7.9	80	0.00
44	TM	Trichloroethene	0.354	0.339	4.2	85	0.00
45	C	1,2-Dichloropropane	0.315	0.316	-0.3#	87	0.00
46	T	Dibromomethane	0.181	0.181	0.0	86	0.00
47	T	Bromodichloromethane	0.466	0.462	0.9	86	0.00
48	T	Methyl methacrylate	0.181	0.168	7.2	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:01:03 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	1.161	0.7	87	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.184	5.6	79	0.00
52	CM	Toluene	0.870	0.868	0.2#	86	0.00
53	T	t-1,3-Dichloropropene	0.422	0.400	5.2	81	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.478	4.2	82	0.00
55	T	1,1,2-Trichloroethane	0.242	0.234	3.3	84	0.00
56	T	Ethyl methacrylate	0.310	0.299	3.5	80	0.00
57	T	1,3-Dichloropropane	0.411	0.403	1.9	85	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.154	-5.5	85	0.00
59	T	2-Hexanone	0.133	0.122	8.3	76	0.00
60	T	Dibromochloromethane	0.320	0.313	2.2	84	0.00
61	T	1,2-Dibromoethane	0.228	0.222	2.6	84	0.00
62	S	4-Bromofluorobenzene	0.376	0.379	-0.8	87	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64	T	Tetrachloroethene	0.446	0.442	0.9	88	0.00
65	PM	Chlorobenzene	1.079	1.048	2.9	86	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.356	2.7	86	0.00
67	C	Ethyl Benzene	1.856	1.805	2.7#	84	0.00
68	T	m/p-Xylenes	0.725	0.711	1.9	86	0.00
69	T	o-Xylene	0.679	0.670	1.3	85	0.00
70	T	Styrene	1.110	1.135	-2.3	88	0.00
71	P	Bromoform	0.214	0.196	8.4	80	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
73	T	Isopropylbenzene	3.529	3.316	6.0	85	0.00
74	T	N-amyl acetate	0.748	0.675	9.8	79	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.538	10.8	82	0.00
76	T	1,2,3-Trichloropropane	0.483	0.438	9.3	73	0.00
77	T	Bromobenzene	0.842	0.773	8.2	83	0.00
78	T	n-propylbenzene	4.201	4.000	4.8	85	0.00
79	T	2-Chlorotoluene	2.407	2.273	5.6	85	0.00
80	T	1,3,5-Trimethylbenzene	2.852	2.738	4.0	86	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.165	17.1	75	0.00
82	T	4-Chlorotoluene	2.497	2.371	5.0	86	0.00
83	T	tert-Butylbenzene	2.576	2.398	6.9	83	0.00
84	T	1,2,4-Trimethylbenzene	2.839	2.745	3.3	87	0.00
85	T	sec-Butylbenzene	3.784	3.563	5.8	84	0.00
86	T	p-Isopropyltoluene	3.141	3.017	3.9	85	0.00
87	T	1,3-Dichlorobenzene	1.660	1.561	6.0	87	0.00
88	T	1,4-Dichlorobenzene	1.647	1.530	7.1	85	0.00
89	T	n-Butylbenzene	2.885	2.740	5.0	84	0.00
90	T	Hexachloroethane	0.643	0.613	4.7	87	0.00
91	T	1,2-Dichlorobenzene	1.456	1.362	6.5	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.085	9.6	80	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.749	13.0	79	0.00
94	T	Hexachlorobutadiene	0.506	0.425	16.0	77	0.00
95	T	Naphthalene	1.468	1.358	7.5	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:01:03 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	0.640	13.7	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:01:03 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	39.105	21.8	75	0.00
3	P	Chloromethane	50.000	51.531	-3.1	92	0.00
4	C	Vinyl Chloride	50.000	51.951	-3.9#	91	0.00
5	T	Bromomethane	50.000	55.884	-11.8	104	0.00
6	T	Chloroethane	50.000	54.827	-9.7	95	0.00
7	T	Trichlorofluoromethane	50.000	47.599	4.8	83	0.00
8	T	Diethyl Ether	50.000	47.275	5.5	81	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.513	7.0	81	0.00
10	T	Methyl Iodide	50.000	47.564	4.9	75	0.00
11	T	Tert butyl alcohol	250.000	218.366	12.7	74	0.00
12	CM	1,1-Dichloroethene	50.000	47.150	5.7#	81	0.00
13	T	Acrolein	250.000	175.306	29.9#	61	0.00
14	T	Allyl chloride	50.000	47.744	4.5	81	0.00
15	T	Acrylonitrile	250.000	242.199	3.1	80	0.00
16	T	Acetone	250.000	198.426	20.6	65	0.01
17	T	Carbon Disulfide	50.000	47.377	5.2	82	0.00
18	T	Methyl Acetate	50.000	53.111	-6.2	83	0.00
19	T	Methyl tert-butyl Ether	50.000	48.863	2.3	81	0.00
20	T	Methylene Chloride	50.000	51.824	-3.6	89	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.867	0.3	85	0.00
22	T	Diisopropyl ether	50.000	50.952	-1.9	85	0.00
23	T	Vinyl Acetate	250.000	237.183	5.1	79	0.00
24	P	1,1-Dichloroethane	50.000	50.854	-1.7	86	0.00
25	T	2-Butanone	250.000	224.999	10.0	73	0.00
26	T	2,2-Dichloropropane	50.000	43.733	12.5	74	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.561	-1.1	86	0.00
28	T	Bromochloromethane	50.000	52.662	-5.3	89	0.00
29	T	Tetrahydrofuran	250.000	238.509	4.6	78	0.00
30	C	Chloroform	50.000	51.354	-2.7#	87	0.00
31	T	Cyclohexane	50.000	45.365	9.3	81	0.00
32	T	1,1,1-Trichloroethane	50.000	49.325	1.3	83	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.443	-2.9	87	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35	S	Dibromofluoromethane	50.000	49.874	0.3	87	0.00
36	T	1,1-Dichloropropene	50.000	47.457	5.1	83	0.00
37	T	Ethyl Acetate	50.000	44.531	10.9	75	0.00
38	T	Carbon Tetrachloride	50.000	47.191	5.6	83	0.00
39	T	Methylcyclohexane	50.000	46.461	7.1	82	0.00
40	TM	Benzene	50.000	49.159	1.7	86	0.00
41	T	Methacrylonitrile	50.000	50.010	-0.0	84	0.00
42	TM	1,2-Dichloroethane	50.000	49.294	1.4	86	0.00
43	T	Isopropyl Acetate	50.000	46.064	7.9	80	0.00
44	TM	Trichloroethene	50.000	47.865	4.3	85	0.00
45	C	1,2-Dichloropropane	50.000	50.153	-0.3#	87	0.00
46	T	Dibromomethane	50.000	49.874	0.3	86	0.00
47	T	Bromodichloromethane	50.000	49.561	0.9	86	0.00
48	T	Methyl methacrylate	50.000	46.388	7.2	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:01:03 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	946.941	5.3	81	0.00
50	S	Toluene-d8	50.000	49.680	0.6	87	0.00
51	T	4-Methyl-2-Pentanone	250.000	235.707	5.7	79	0.00
52	CM	Toluene	50.000	49.890	0.2#	86	0.00
53	T	t-1,3-Dichloropropene	50.000	47.408	5.2	81	0.00
54	T	cis-1,3-Dichloropropene	50.000	47.881	4.2	82	0.00
55	T	1,1,2-Trichloroethane	50.000	48.399	3.2	84	0.00
56	T	Ethyl methacrylate	50.000	48.164	3.7	80	0.00
57	T	1,3-Dichloropropane	50.000	49.039	1.9	85	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	263.718	-5.5	85	0.00
59	T	2-Hexanone	250.000	229.542	8.2	76	0.00
60	T	Dibromochloromethane	50.000	48.956	2.1	84	0.00
61	T	1,2-Dibromoethane	50.000	48.817	2.4	84	0.00
62	S	4-Bromofluorobenzene	50.000	50.453	-0.9	87	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64	T	Tetrachloroethene	50.000	49.476	1.0	88	0.00
65	PM	Chlorobenzene	50.000	48.595	2.8	86	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.615	2.8	86	0.00
67	C	Ethyl Benzene	50.000	48.633	2.7#	84	0.00
68	T	m/p-Xylenes	100.000	98.062	1.9	86	0.00
69	T	o-Xylene	50.000	49.346	1.3	85	0.00
70	T	Styrene	50.000	51.107	-2.2	88	0.00
71	P	Bromoform	50.000	45.809	8.4	80	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	89	0.00
73	T	Isopropylbenzene	50.000	46.989	6.0	85	0.00
74	T	N-amyl acetate	50.000	45.070	9.9	79	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	44.662	10.7	82	0.00
76	T	1,2,3-Trichloropropane	50.000	45.368	9.3	73	0.00
77	T	Bromobenzene	50.000	45.880	8.2	83	0.00
78	T	n-propylbenzene	50.000	47.608	4.8	85	0.00
79	T	2-Chlorotoluene	50.000	47.220	5.6	85	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.002	4.0	86	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	41.468	17.1	75	0.00
82	T	4-Chlorotoluene	50.000	47.468	5.1	86	0.00
83	T	tert-Butylbenzene	50.000	46.538	6.9	83	0.00
84	T	1,2,4-Trimethylbenzene	50.000	48.337	3.3	87	0.00
85	T	sec-Butylbenzene	50.000	47.086	5.8	84	0.00
86	T	p-Isopropyltoluene	50.000	48.033	3.9	85	0.00
87	T	1,3-Dichlorobenzene	50.000	46.997	6.0	87	0.00
88	T	1,4-Dichlorobenzene	50.000	46.447	7.1	85	0.00
89	T	n-Butylbenzene	50.000	47.492	5.0	84	0.00
90	T	Hexachloroethane	50.000	47.698	4.6	87	0.00
91	T	1,2-Dichlorobenzene	50.000	46.764	6.5	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.213	9.6	80	0.00
93	T	1,2,4-Trichlorobenzene	50.000	43.501	13.0	79	0.00
94	T	Hexachlorobutadiene	50.000	41.989	16.0	77	0.00
95	T	Naphthalene	50.000	46.256	7.5	82	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Aug 14 03:01:03 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	43.140	13.7	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
Instrument ID:	MSVOA_Y	Calibration Date/Time:	08/14/2025 10:17
Lab File ID:	VY023084.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	0.368		-9.8	20
Chloromethane	0.661	0.738	0.1	11.65	20
Vinyl Chloride	0.817	0.946		15.79	20
Bromomethane	0.610	0.701		14.92	20
Chloroethane	0.543	0.665		22.47	20
Trichlorofluoromethane	0.994	1.067		7.34	20
1,1,2-Trichlorotrifluoroethane	0.490	0.530		8.16	20
1,1-Dichloroethene	0.482	0.512		6.22	20
Acetone	0.103	0.106		2.91	20
Carbon Disulfide	1.571	1.688		7.45	20
Methyl tert-butyl Ether	1.249	1.278		2.32	20
Methyl Acetate	0.307	0.311		1.3	20
Methylene Chloride	0.620	0.608		-1.93	20
trans-1,2-Dichloroethene	0.541	0.599		10.72	20
1,1-Dichloroethane	0.942	1.065	0.1	13.06	20
Cyclohexane	0.888	0.899		1.24	20
2-Butanone	0.140	0.142		1.43	20
Carbon Tetrachloride	0.483	0.543		12.42	20
cis-1,2-Dichloroethene	0.626	0.688		9.9	20
Bromochloromethane	0.374	0.440		17.65	20
Chloroform	0.971	1.102		13.49	20
1,1,1-Trichloroethane	0.862	0.962		11.6	20
Methylcyclohexane	0.586	0.637		8.7	20
Benzene	1.370	1.568		14.45	20
1,2-Dichloroethane	0.356	0.398		11.8	20
Trichloroethene	0.354	0.397		12.15	20
1,2-Dichloropropane	0.315	0.366		16.19	20
Bromodichloromethane	0.466	0.532		14.16	20
4-Methyl-2-Pentanone	0.195	0.203		4.1	20
Toluene	0.870	1.000		14.94	20
t-1,3-Dichloropropene	0.422	0.465		10.19	20
cis-1,3-Dichloropropene	0.499	0.557		11.62	20
1,1,2-Trichloroethane	0.242	0.267		10.33	20
2-Hexanone	0.133	0.137		3.01	20
Dibromochloromethane	0.320	0.358		11.88	20
1,2-Dibromoethane	0.228	0.247		8.33	20
Tetrachloroethene	0.446	0.495		10.99	20
Chlorobenzene	1.079	1.192	0.3	10.47	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
Instrument ID:	MSVOA_Y	Calibration Date/Time:	08/14/2025 10:17
Lab File ID:	VY023084.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	2.084		12.28	20
m/p-Xylenes	0.725	0.824		13.65	20
o-Xylene	0.679	0.765		12.67	20
Styrene	1.110	1.298		16.94	20
Bromoform	0.214	0.221	0.1	3.27	20
Isopropylbenzene	3.529	3.976		12.67	20
1,1,2,2-Tetrachloroethane	0.603	0.622	0.3	3.15	20
1,3-Dichlorobenzene	1.660	1.864		12.29	20
1,4-Dichlorobenzene	1.647	1.816		10.26	20
1,2-Dichlorobenzene	1.456	1.620		11.26	20
1,2-Dibromo-3-Chloropropane	0.094	0.097		3.19	20
1,2,4-Trichlorobenzene	0.861	0.892		3.6	20
1,2,3-Trichlorobenzene	0.742	0.759		2.29	20
1,2-Dichloroethane-d4	0.477	0.540		13.21	20
Dibromofluoromethane	0.299	0.344		15.05	20
Toluene-d8	1.169	1.352		15.65	20
4-Bromofluorobenzene	0.376	0.427		13.56	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\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 14:46:40 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 :
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	410930	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	647551	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	582049	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	290049	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	221987	56.681	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.360%			
35) Dibromofluoromethane	7.628	113	223080	57.573	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 115.140%			
50) Toluene-d8	10.103	98	875441	57.835	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 115.660%			
62) 4-Bromofluorobenzene	12.401	95	276611	56.822	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 113.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	151094	45.046	ug/l	100
3) Chloromethane	2.068	50	303228	55.814	ug/l	96
4) Vinyl Chloride	2.202	62	388943	57.916	ug/l	98
5) Bromomethane	2.592	94	288079	57.438	ug/l	99
6) Chloroethane	2.732	64	273182	61.186	ug/l	98
7) Trichlorofluoromethane	3.050	101	438280	53.672	ug/l	97
8) Diethyl Ether	3.452	74	108282	50.120	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	217833	54.071	ug/l	99
10) Methyl Iodide	4.001	142	268014	61.652	ug/l	98
11) Tert butyl alcohol	4.854	59	58207	216.906	ug/l	99
12) 1,1-Dichloroethene	3.787	96	210368	53.125	ug/l	99
13) Acrolein	3.647	56	70939	180.505	ug/l	95
14) Allyl chloride	4.379	41	309516	53.120	ug/l	98
15) Acrylonitrile	5.055	53	225862	257.151	ug/l	99
16) Acetone	3.860	43	217392	256.214	ug/l	96
17) Carbon Disulfide	4.104	76	693545	53.714	ug/l	99
18) Methyl Acetate	4.379	43	127782	50.608	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	525251	51.188	ug/l	99
20) Methylene Chloride	4.610	84	249658	57.006	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	245991	55.278	ug/l	98
22) Diisopropyl ether	6.012	45	701401	55.396	ug/l	97
23) Vinyl Acetate	5.958	43	1858955	265.520	ug/l	99
24) 1,1-Dichloroethane	5.909	63	437716	56.544	ug/l	100
25) 2-Butanone	6.890	43	291161	252.314	ug/l	99
26) 2,2-Dichloropropane	6.884	77	369032	55.247	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	282758	54.962	ug/l	99
28) Bromochloromethane	7.244	49	180624	58.812	ug/l	97
29) Tetrahydrofuran	7.262	42	176218	246.358	ug/l	99
30) Chloroform	7.415	83	452700	56.703	ug/l	92
31) Cyclohexane	7.695	56	369548	50.659	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	395153	55.782	ug/l	99
36) 1,1-Dichloropropene	7.835	75	324519	56.356	ug/l	99
37) Ethyl Acetate	6.982	43	127399	52.667	ug/l	98
38) Carbon Tetrachloride	7.811	117	351380	56.181	ug/l	98
39) Methylcyclohexane	9.109	83	412645	54.417	ug/l	99
40) Benzene	8.079	78	1015204	57.200	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 14:46:40 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 :
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	7.213	41	60193	43.117 ug/l #	84
42) 1,2-Dichloroethane	8.158	62	257953	55.883 ug/l	98
43) Isopropyl Acetate	8.195	43	247901	50.705 ug/l	99
44) Trichloroethene	8.866	130	256850	56.001 ug/l	98
45) 1,2-Dichloropropane	9.140	63	236969	58.028 ug/l	98
46) Dibromomethane	9.231	93	132779	56.649 ug/l	98
47) Bromodichloromethane	9.420	83	344511	57.122 ug/l	98
48) Methyl methacrylate	9.219	41	123024	52.585 ug/l	99
49) 1,4-Dioxane	9.225	88	28396	1033.218 ug/l	95
51) 4-Methyl-2-Pentanone	9.993	43	657357	260.657 ug/l	99
52) Toluene	10.170	92	647492	57.441 ug/l	98
53) t-1,3-Dichloropropene	10.390	75	301282	55.165 ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	360945	55.890 ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	173079	55.184 ug/l	96
56) Ethyl methacrylate	10.438	69	213481	53.193 ug/l	97
57) 1,3-Dichloropropane	10.713	76	292765	55.040 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	530251	280.099 ug/l	100
59) 2-Hexanone	10.755	43	442922	257.924 ug/l	98
60) Dibromochloromethane	10.908	129	231534	55.947 ug/l	100
61) 1,2-Dibromoethane	11.012	107	159967	54.265 ug/l	99
64) Tetrachloroethene	10.646	164	288037	55.420 ug/l	99
65) Chlorobenzene	11.438	112	693789	55.261 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	237008	55.623 ug/l	99
67) Ethyl Benzene	11.518	91	1213079	56.146 ug/l	99
68) m/p-Xylenes	11.627	106	959256	113.678 ug/l	100
69) o-Xylene	11.950	106	445491	56.368 ug/l	99
70) Styrene	11.969	104	755359	58.442 ug/l	99
71) Bromoform	12.127	173	128615	51.645 ug/l #	98
73) Isopropylbenzene	12.249	105	1153144	56.330 ug/l	100
74) N-amyl acetate	12.066	43	224404	51.690 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	180470	51.630 ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	126115m	45.053 ug/l	
77) Bromobenzene	12.530	156	264791	54.218 ug/l	99
78) n-propylbenzene	12.590	91	1411858	57.928 ug/l	100
79) 2-Chlorotoluene	12.676	91	778755	55.767 ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	950021	57.421 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	56963	49.259 ug/l	96
82) 4-Chlorotoluene	12.773	91	813961	56.188 ug/l	100
83) tert-Butylbenzene	12.993	119	830094	55.552 ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	956285	58.063 ug/l	100
85) sec-Butylbenzene	13.170	105	1262155	57.500 ug/l	99
86) p-Isopropyltoluene	13.285	119	1062415	58.310 ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	540543	56.125 ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	526660	55.125 ug/l	100
89) n-Butylbenzene	13.615	91	968977	57.904 ug/l	100
90) Hexachloroethane	13.877	117	210671	56.482 ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	469762	55.616 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	28212	51.839 ug/l	92
93) 1,2,4-Trichlorobenzene	14.919	180	258580	51.769 ug/l	99
94) Hexachlorobutadiene	15.017	225	158788	54.099 ug/l	99
95) Naphthalene	15.139	128	433775	50.929 ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	220135	51.145 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 14:46:40 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 :
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

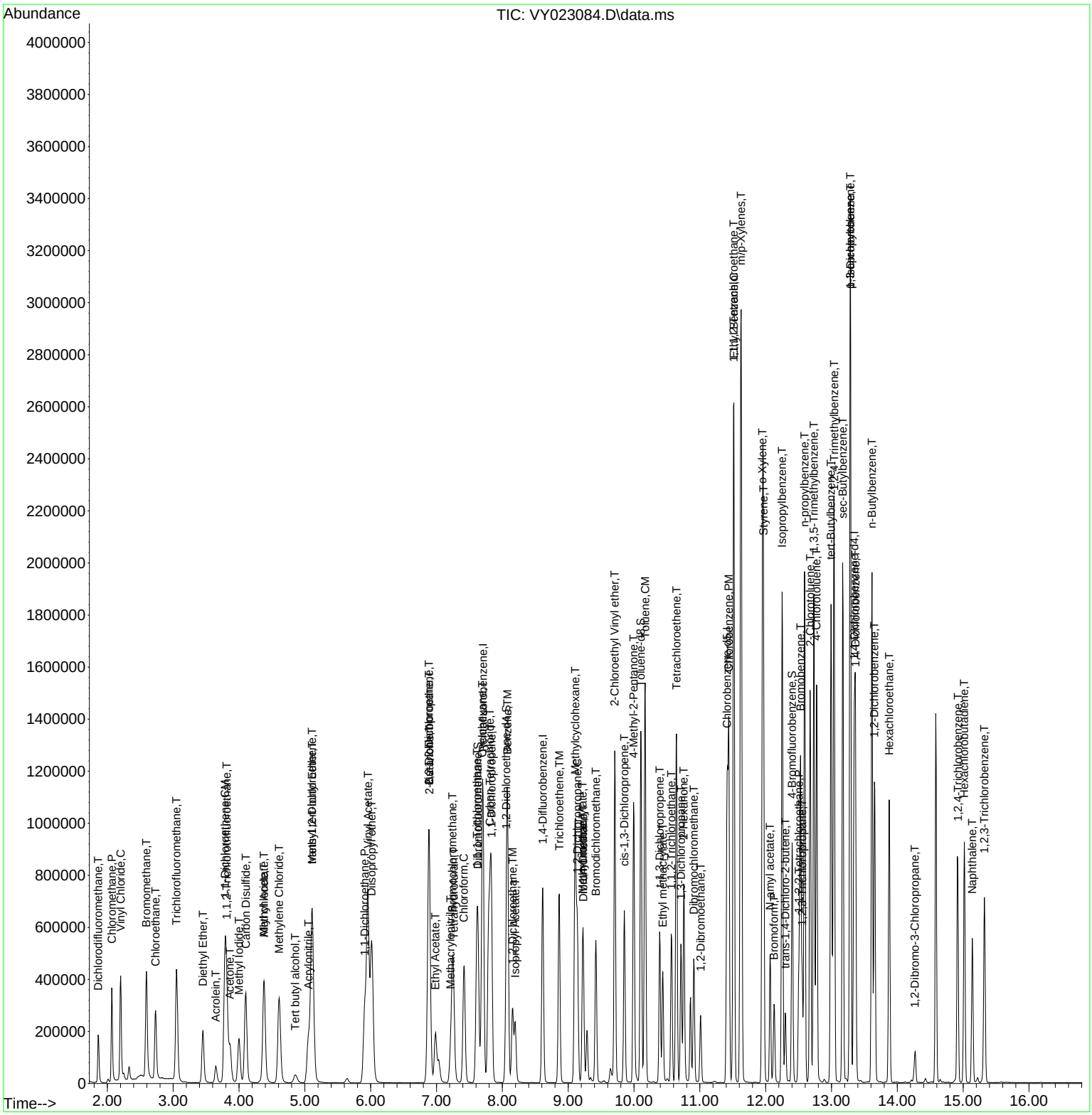
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

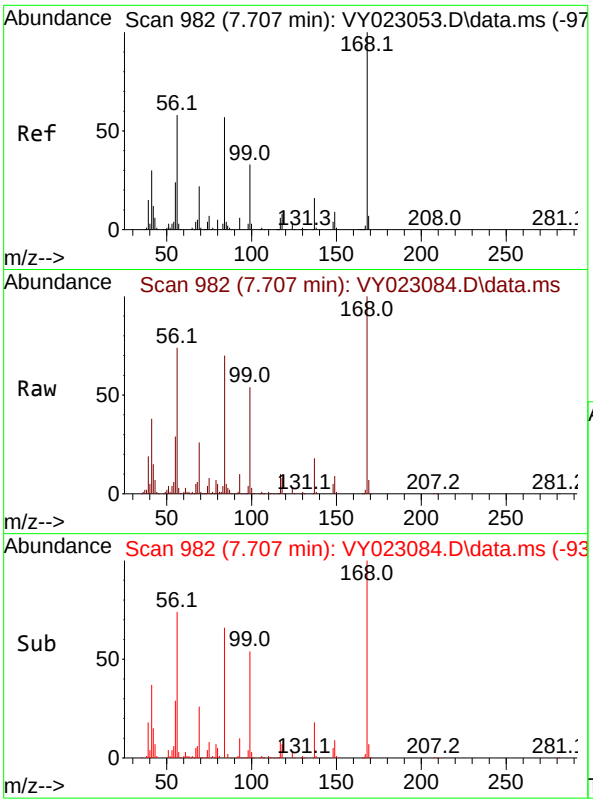
Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

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

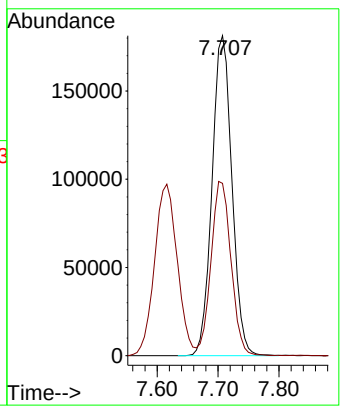




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:168 Resp: 41093

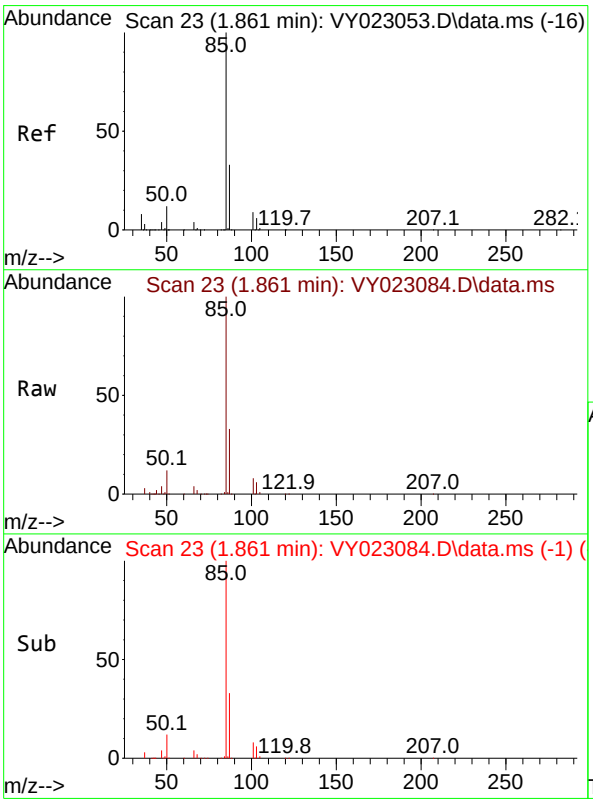
Ion	Ratio	Lower	Upper
168	100		
99	53.7	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

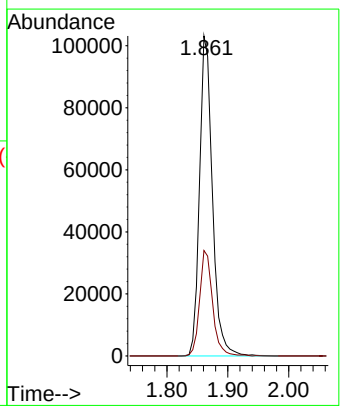
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

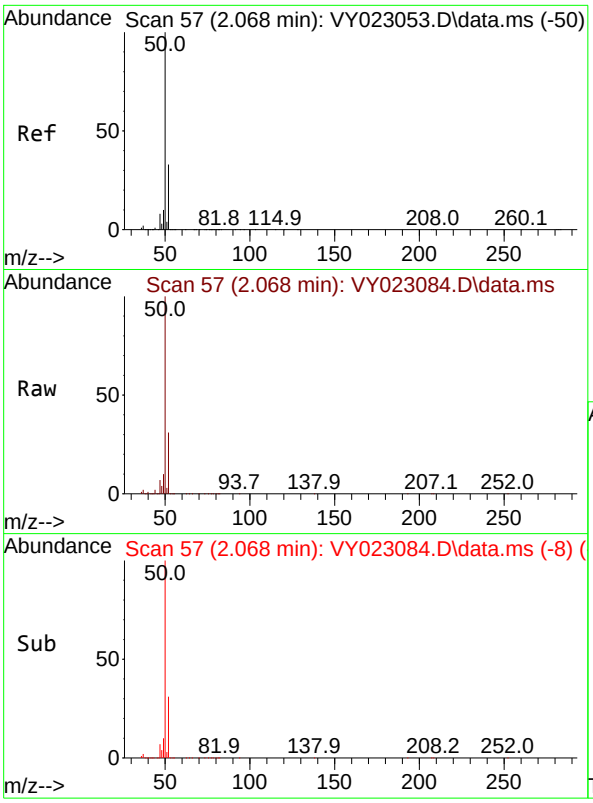


#2
Dichlorodifluoromethane
Concen: 45.046 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 85 Resp: 151094

Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.6	49.8

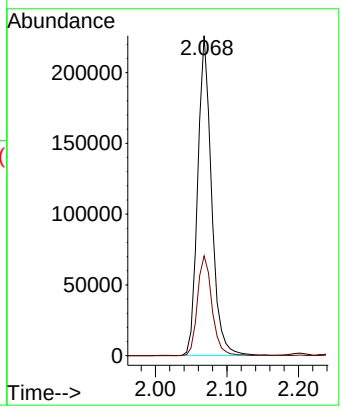




#3
Chloromethane
Concen: 55.814 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 50 Resp: 30322

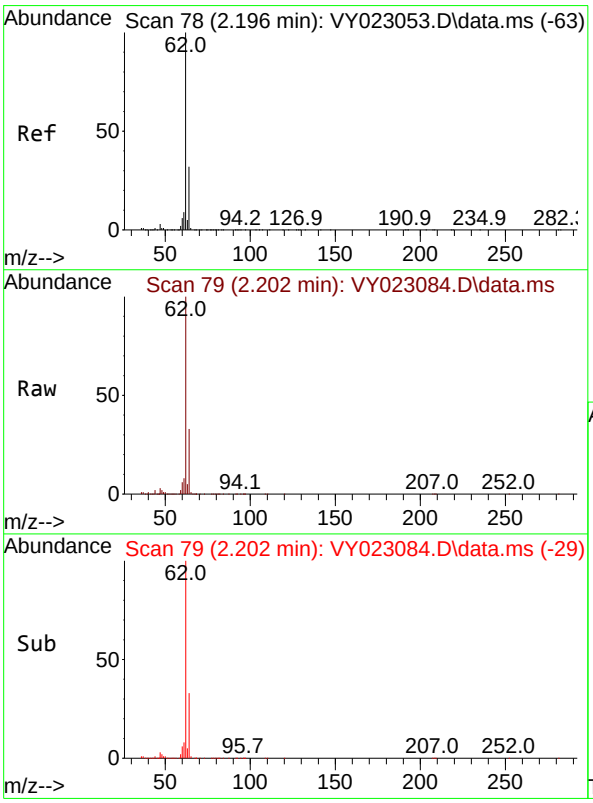
Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

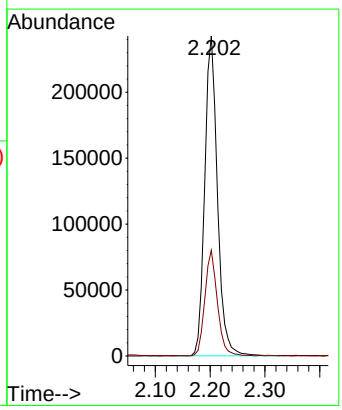
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

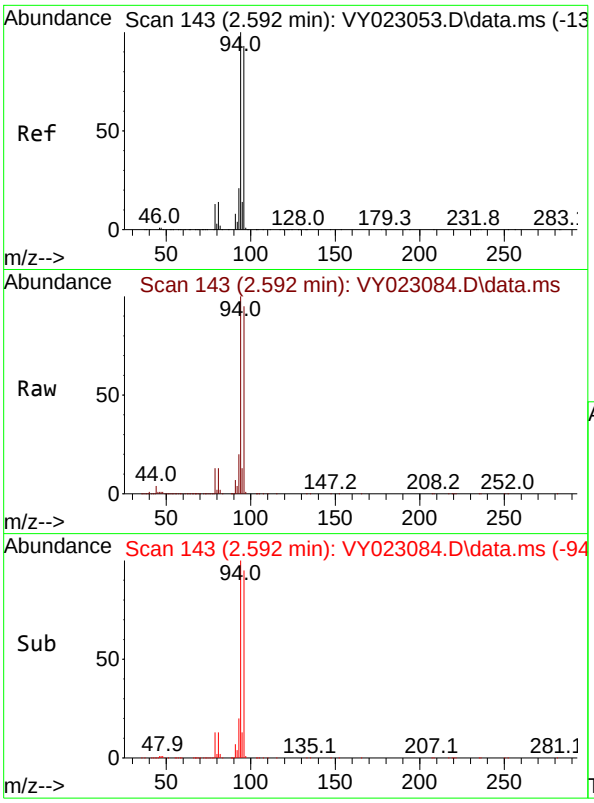


#4
Vinyl Chloride
Concen: 57.916 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 388943

Ion	Ratio	Lower	Upper
62	100		
64	33.0	25.4	38.0





#5
Bromomethane
Concen: 57.438 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 94 Resp: 28807

Ion	Ratio	Lower	Upper
94	100		
96	94.7	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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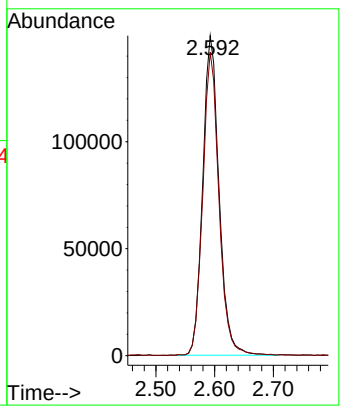
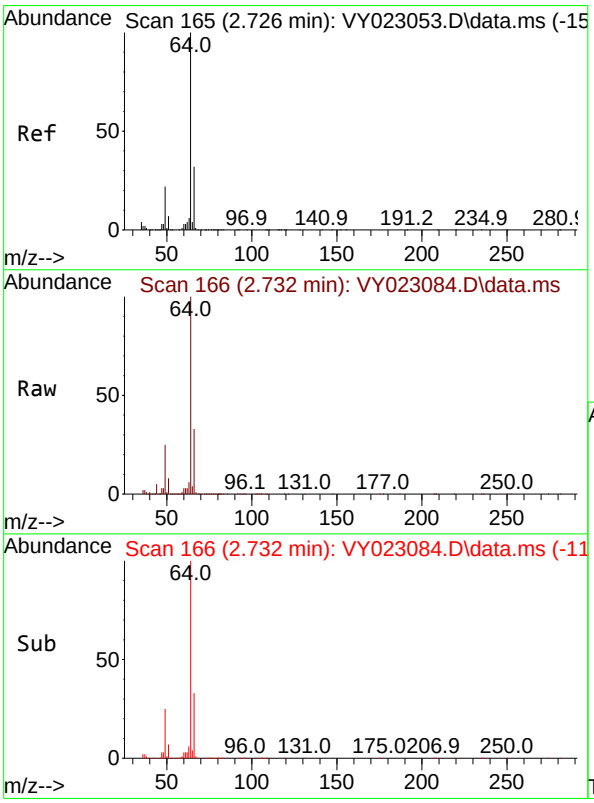
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

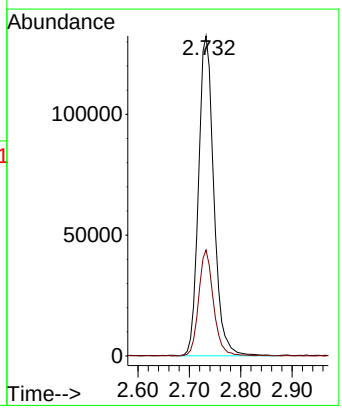


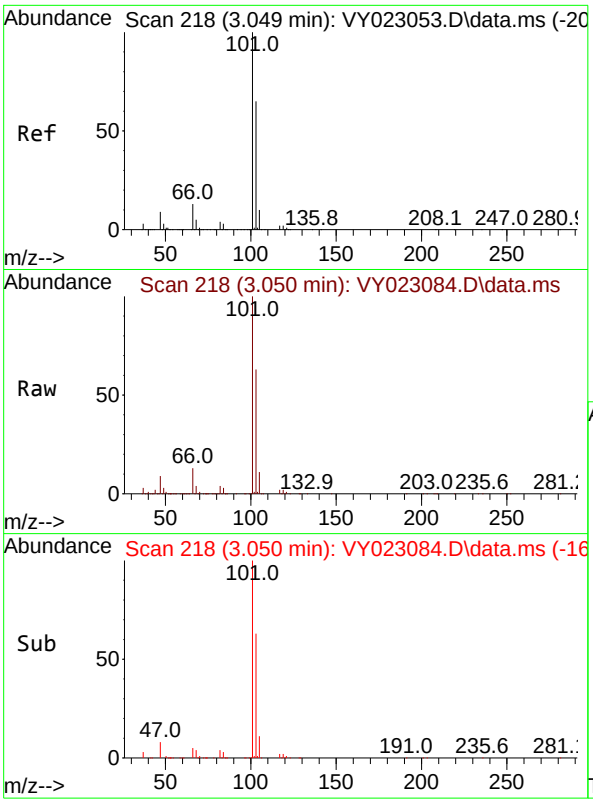


#6
Chloroethane
Concen: 61.186 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 64 Resp: 273182

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.8	38.6

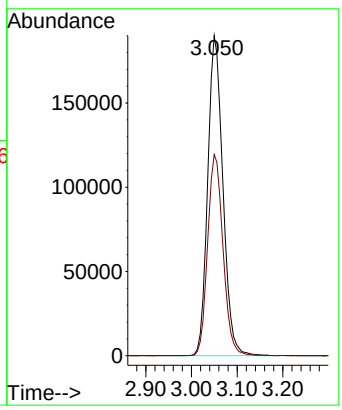




#7
Trichlorofluoromethane
Concen: 53.672 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:101 Resp: 43828

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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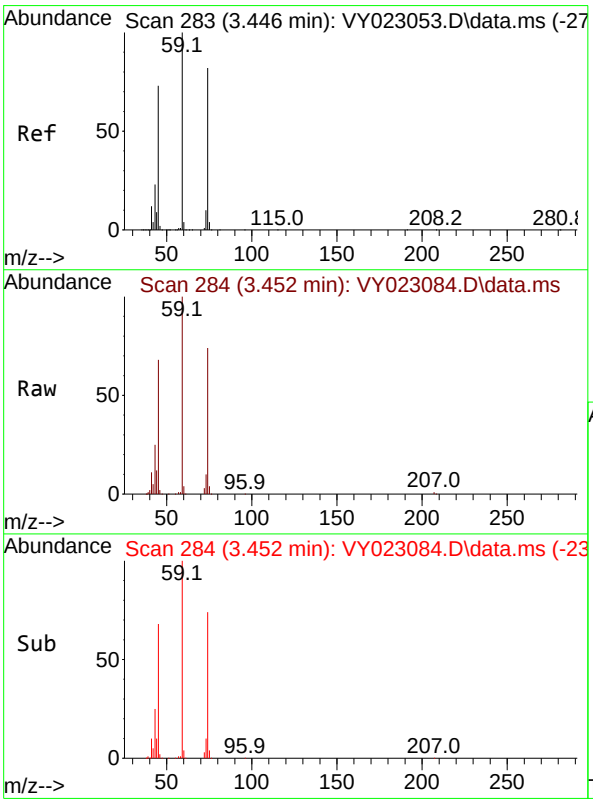
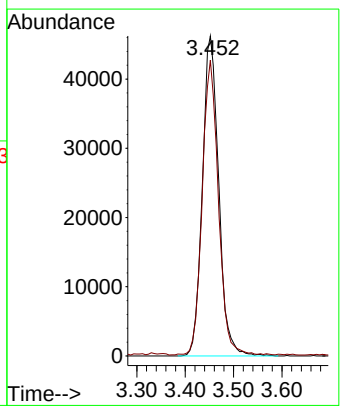
Supervised By :Mahesh Dadoda 08/19/2025

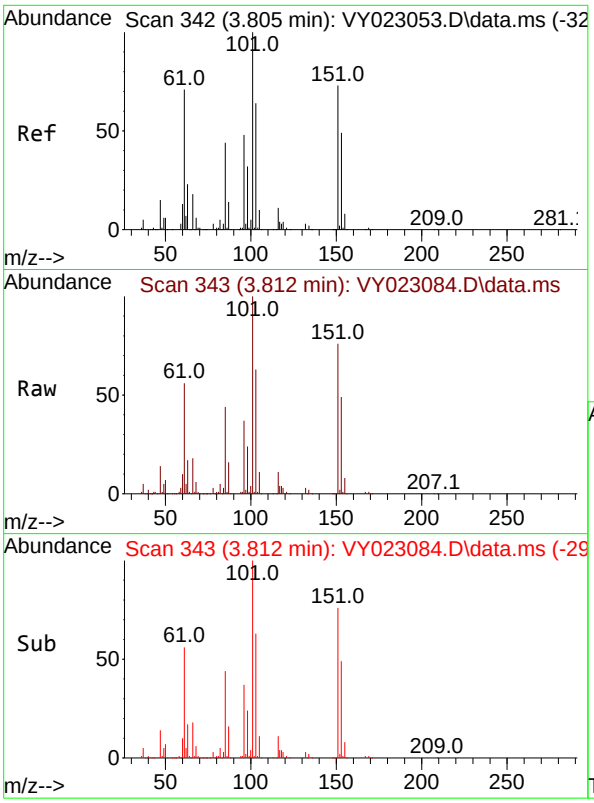


#8
Diethyl Ether
Concen: 50.120 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 74 Resp: 108282

Ion	Ratio	Lower	Upper
74	100		
45	91.1	44.4	133.2

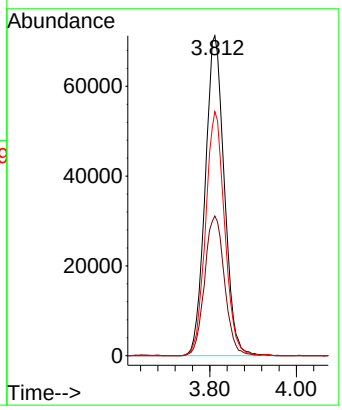




#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.071 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:101 Resp: 21783

Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.3	54.5
151	76.2	61.5	92.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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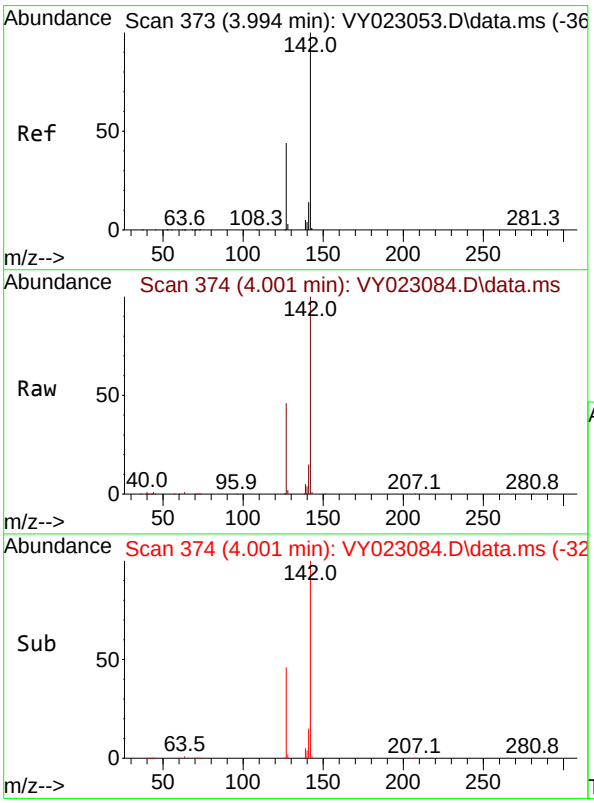
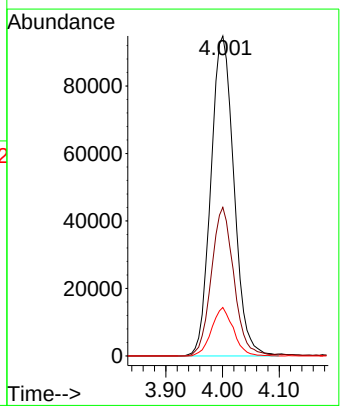
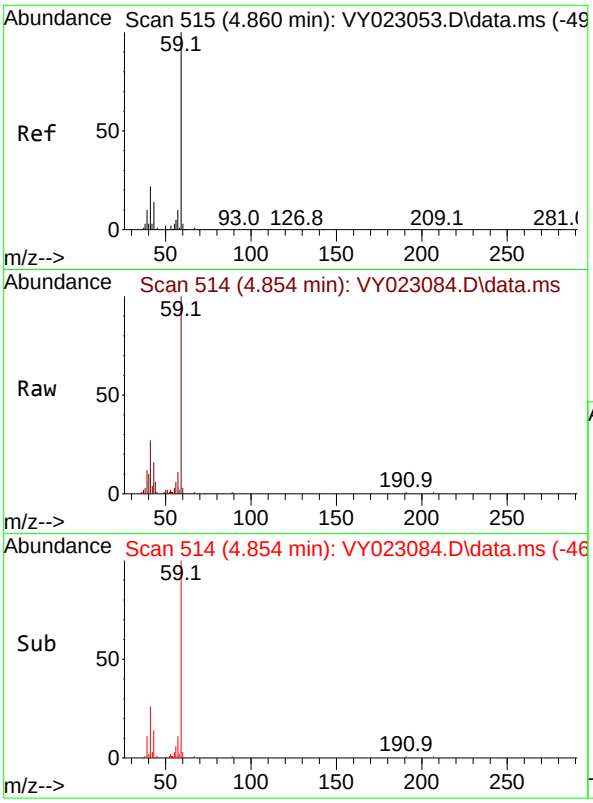


#10
Methyl Iodide
Concen: 61.652 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:142 Resp: 268014

Ion	Ratio	Lower	Upper
142	100		
127	45.4	34.9	52.3
141	14.4	11.3	16.9

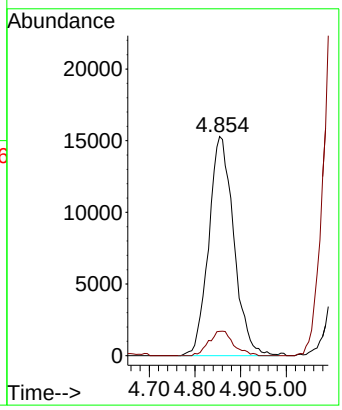




#11
Tert butyl alcohol
Concen: 216.906 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 59 Resp: 5820

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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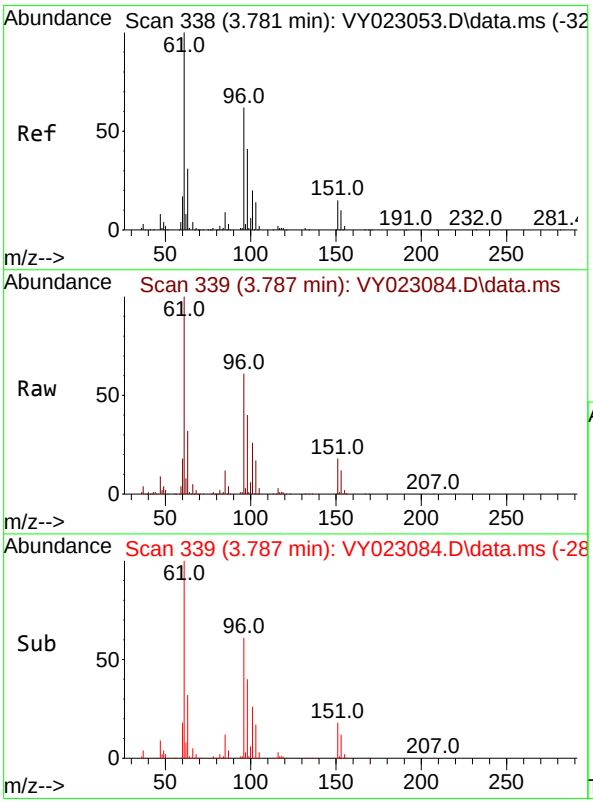
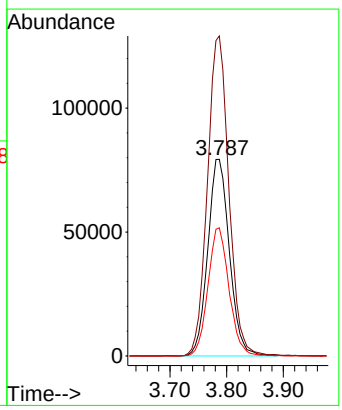
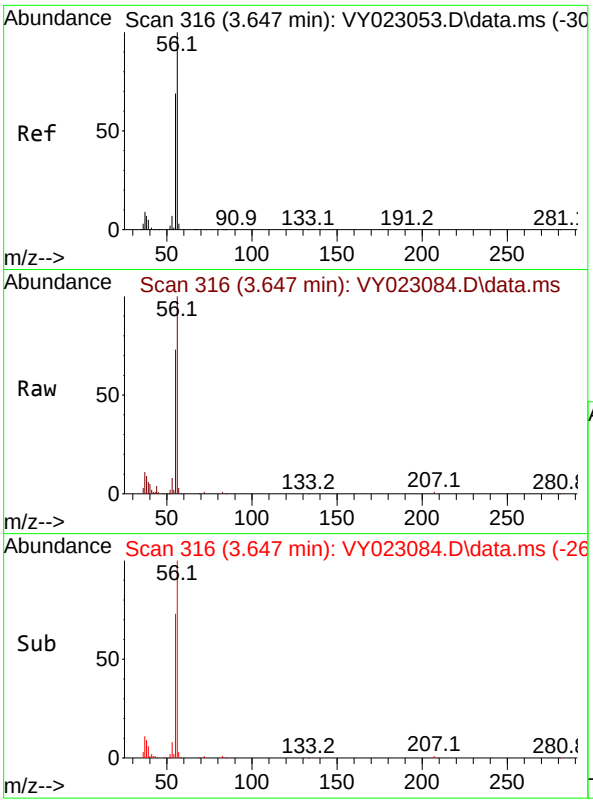


#12
1,1-Dichloroethene
Concen: 53.125 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 210368

Ion	Ratio	Lower	Upper
96	100		
61	162.8	129.4	194.2
98	65.2	52.8	79.2

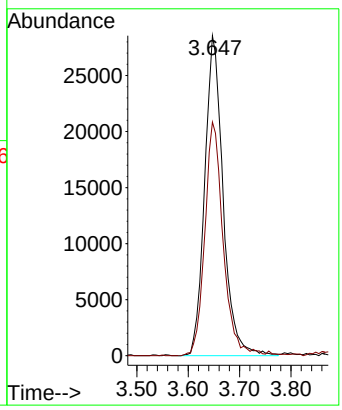




#13
Acrolein
Concen: 180.505 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 56 Resp: 7093

Ion	Ratio	Lower	Upper
56	100		
55	72.8	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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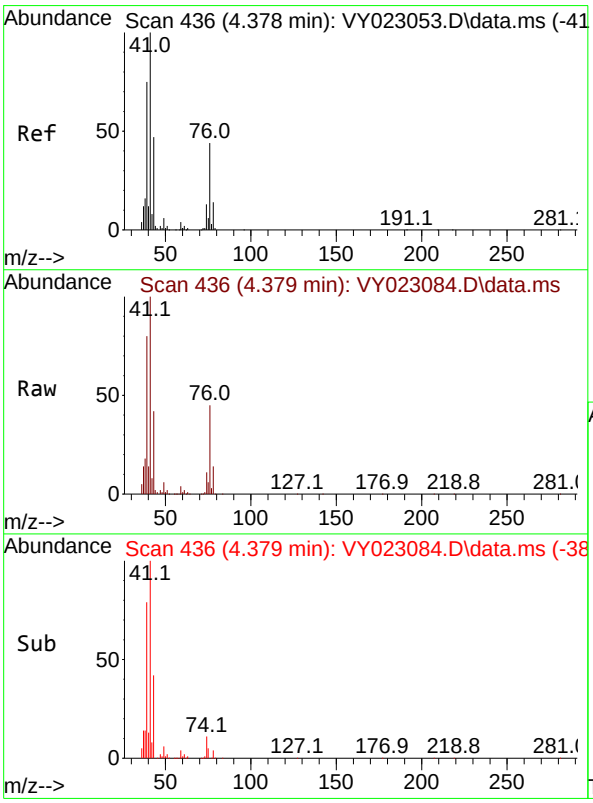
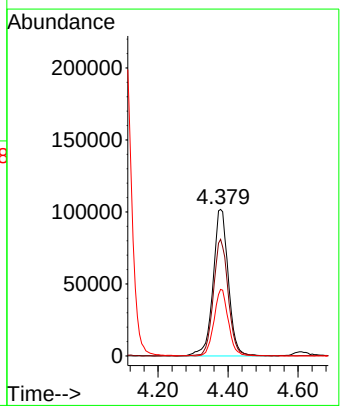
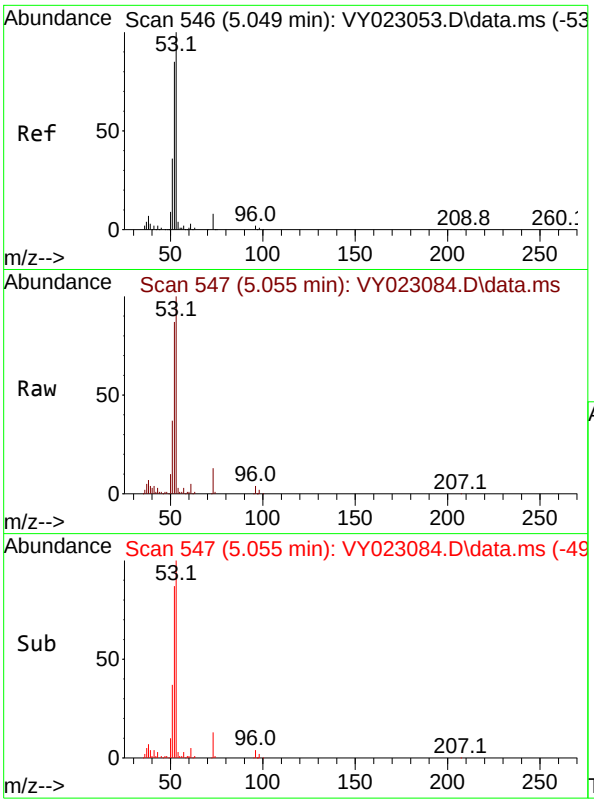


#14
Allyl chloride
Concen: 53.120 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 309516

Ion	Ratio	Lower	Upper
41	100		
39	77.3	59.8	89.6
76	42.3	33.7	50.5





#15
Acrylonitrile
Concen: 257.151 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 53 Resp: 22586

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.3	97.9
51	37.6	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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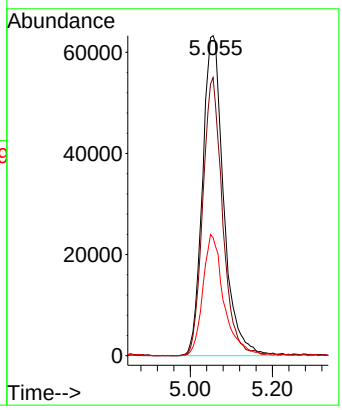
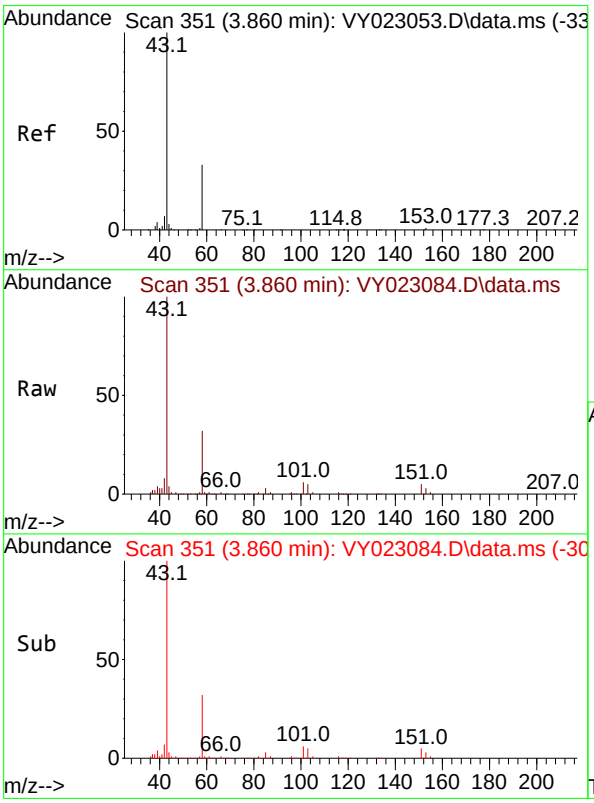
Supervised By :Mahesh Dadoda 08/19/2025

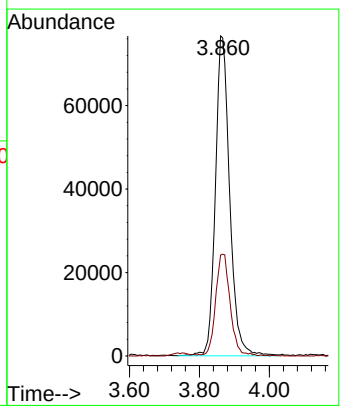


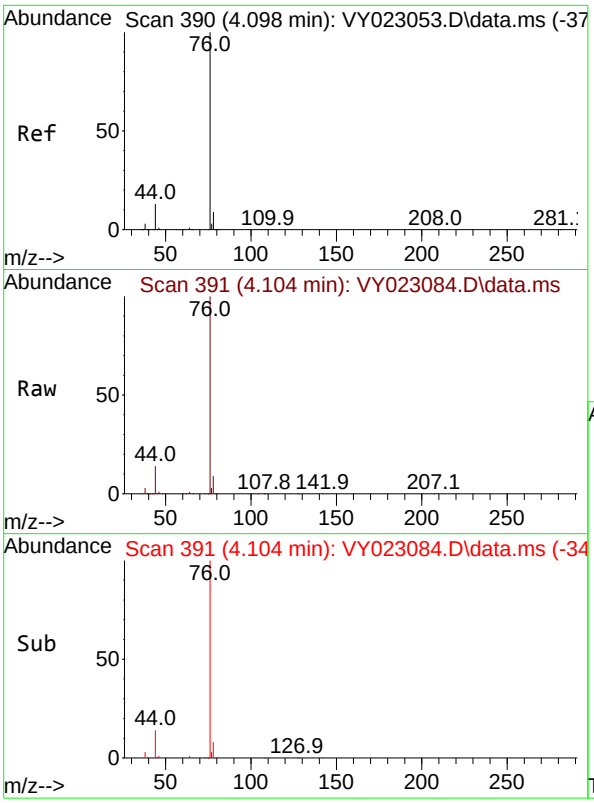


#16
Acetone
Concen: 256.214 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 217392

Ion	Ratio	Lower	Upper
43	100		
58	31.5	27.1	40.7

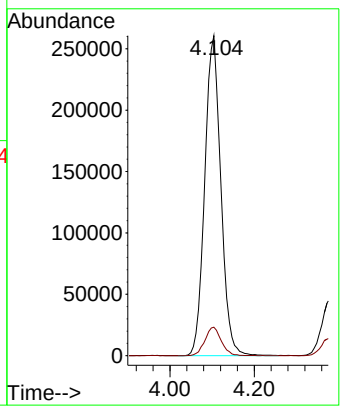




#17
Carbon Disulfide
Concen: 53.714 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 76 Resp: 69354

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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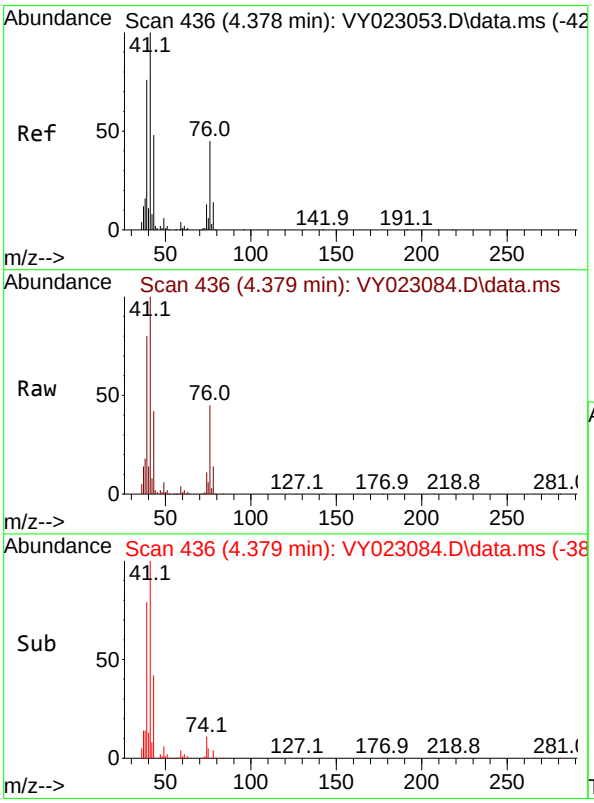
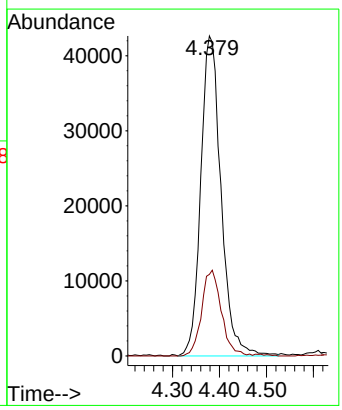
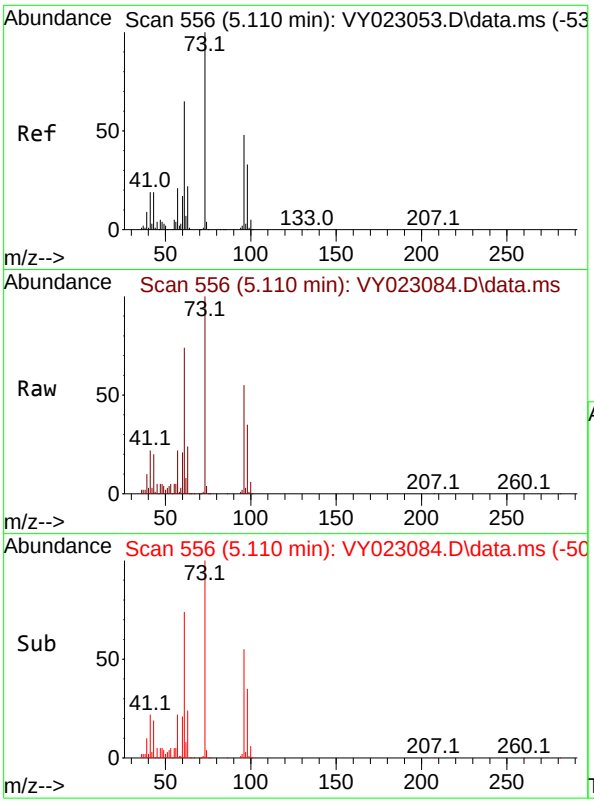


#18
Methyl Acetate
Concen: 50.608 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 127782

Ion	Ratio	Lower	Upper
43	100		
74	26.0	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 51.188 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 73 Resp: 52525

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.1	25.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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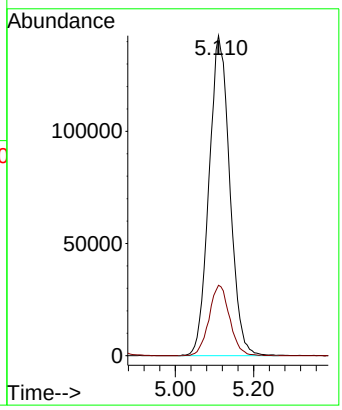
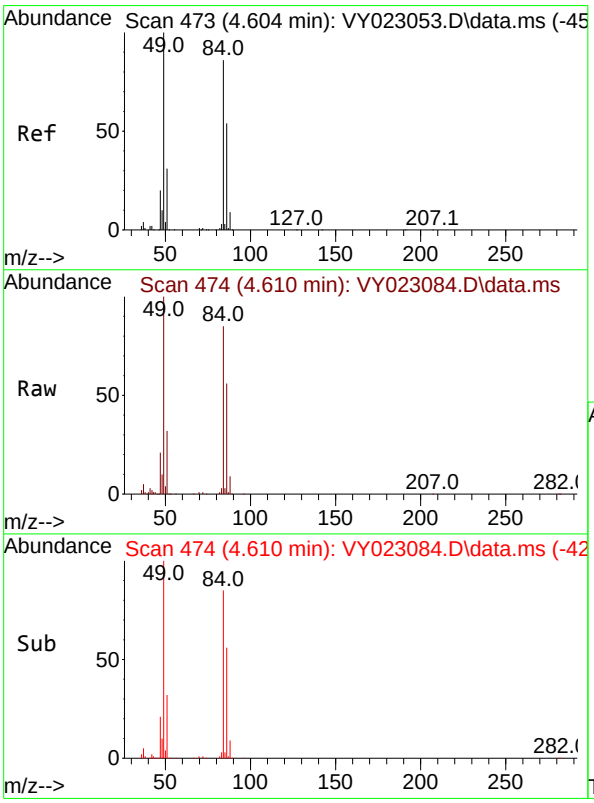
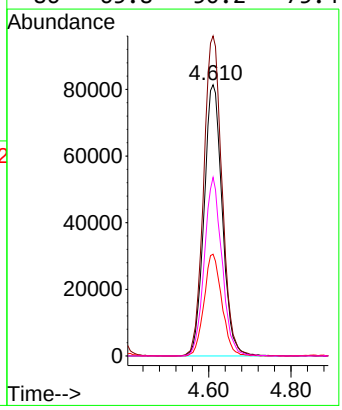


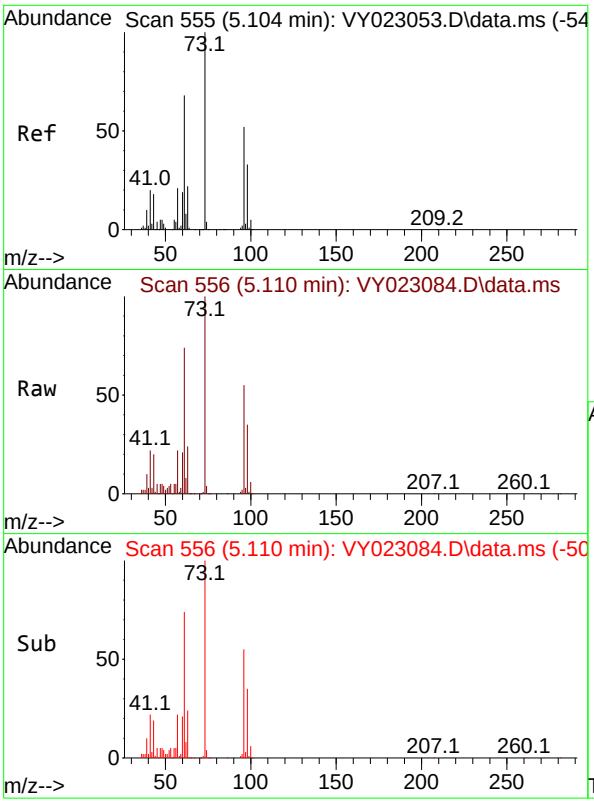


#20
Methylene Chloride
Concen: 57.006 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 84 Resp: 249658

Ion	Ratio	Lower	Upper
84	100		
49	117.9	93.0	139.6
51	37.5	29.0	43.4
86	65.8	50.2	75.4

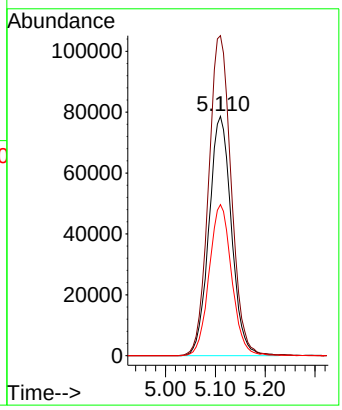




#21
trans-1,2-Dichloroethene
Concen: 55.278 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 24599

Ion	Ratio	Lower	Upper
96	100		
61	133.6	104.8	157.2
98	63.1	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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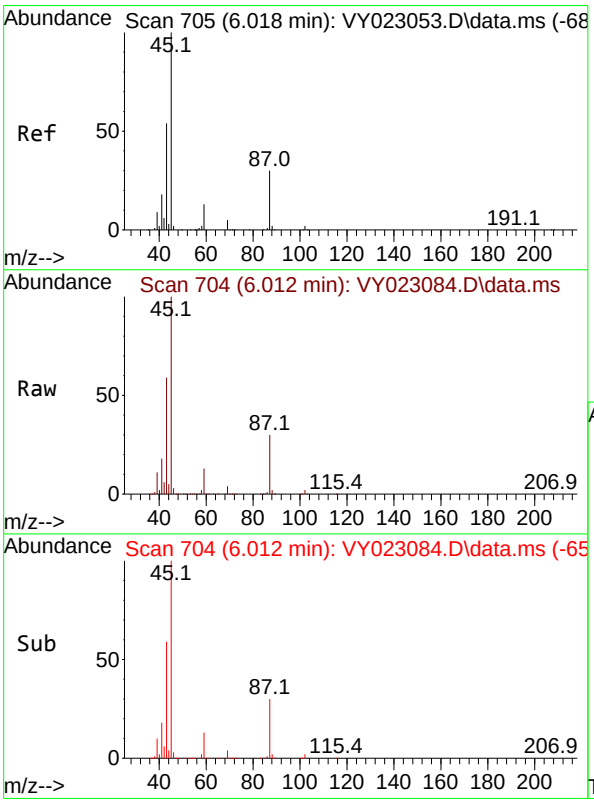
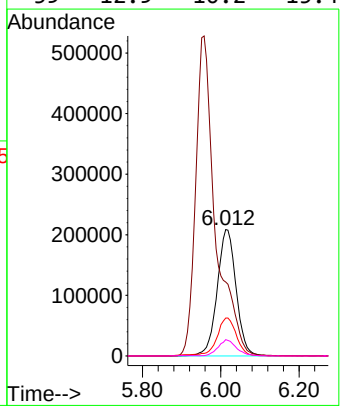
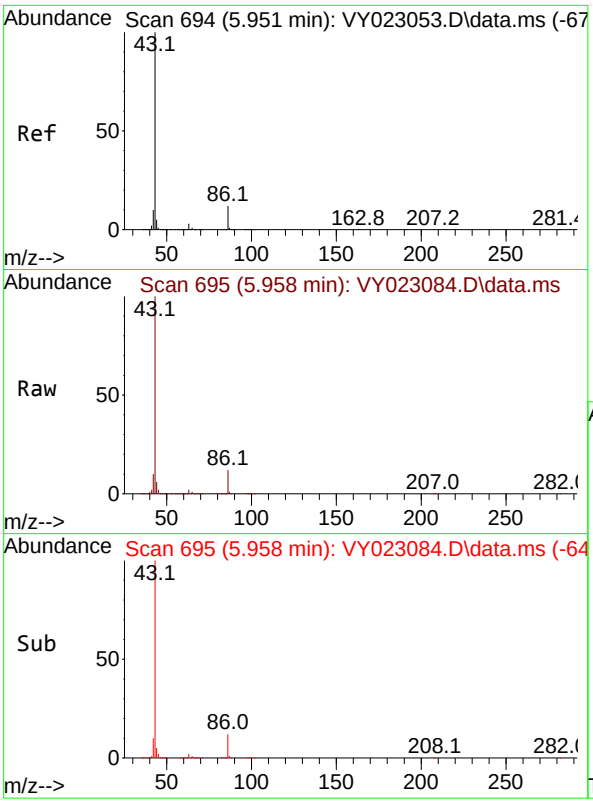


#22
Diisopropyl ether
Concen: 55.396 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 45 Resp: 701401

Ion	Ratio	Lower	Upper
45	100		
43	58.3	43.4	65.0
87	29.9	24.4	36.6
59	12.9	10.2	15.4

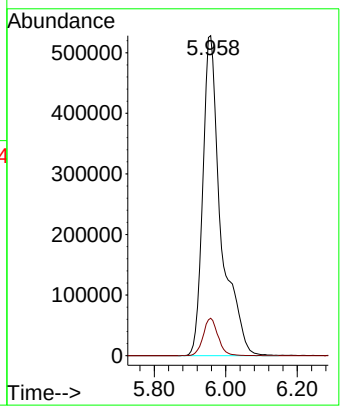




#23
Vinyl Acetate
Concen: 265.520 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 185895

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.6	14.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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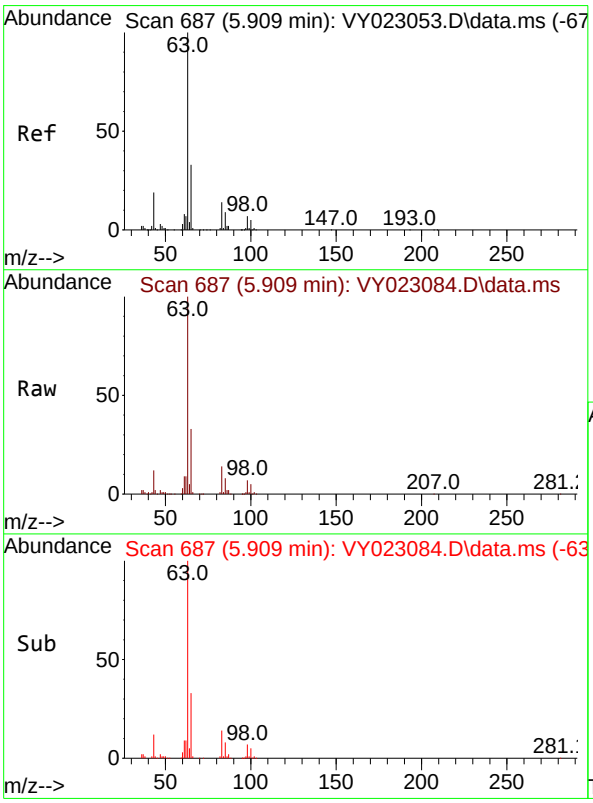
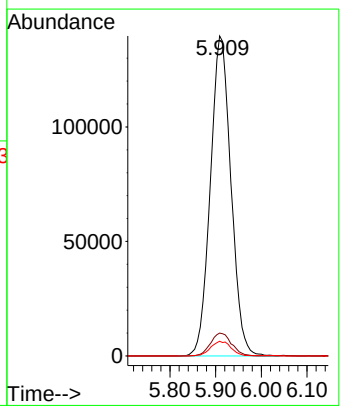
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

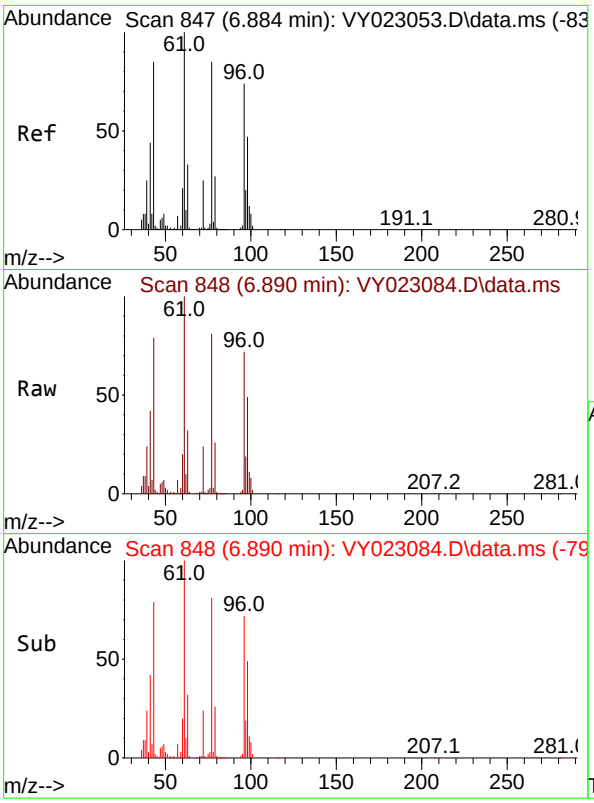


#24
1,1-Dichloroethane
Concen: 56.544 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 437716

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.6	2.4	7.1

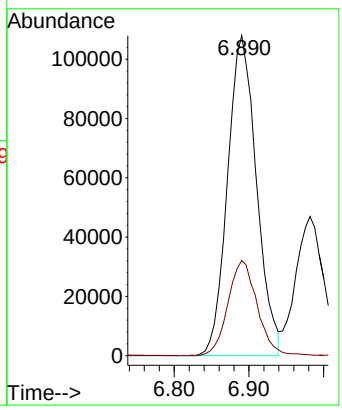




#25
2-Butanone
Concen: 252.314 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 29116

Ion	Ratio	Lower	Upper
43	100		
72	29.8	23.5	35.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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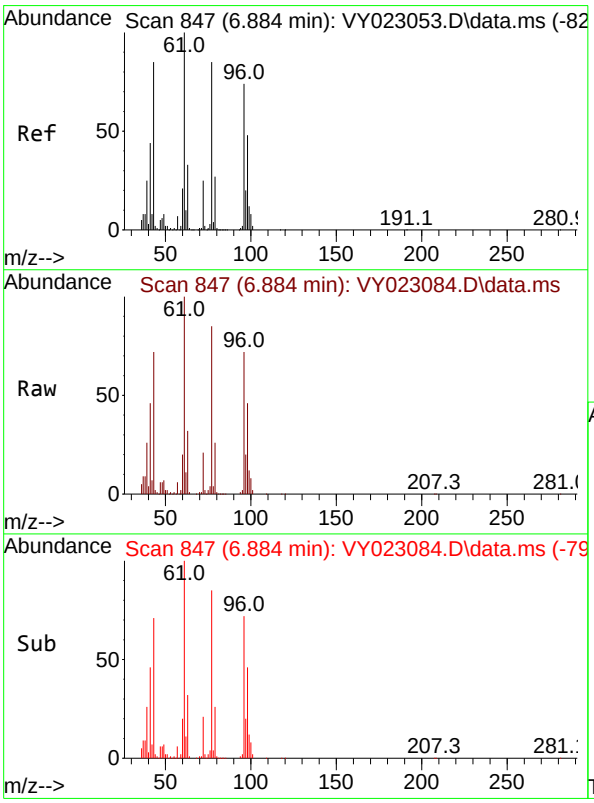
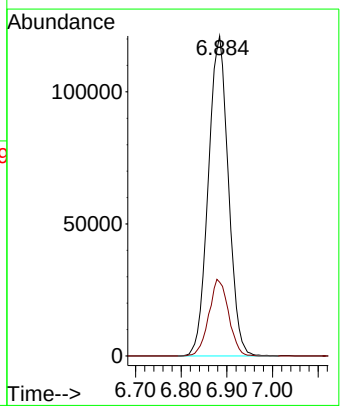
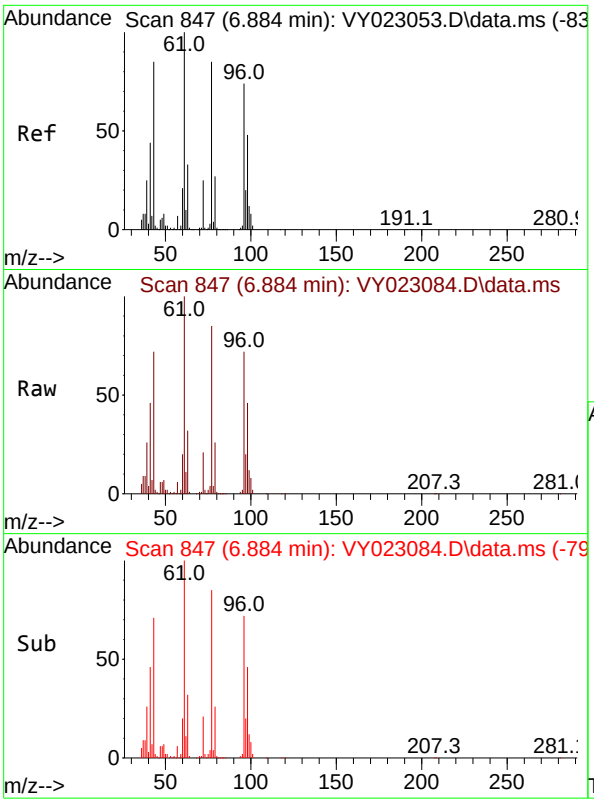


#26
2,2-Dichloropropane
Concen: 55.247 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 77 Resp: 369032

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.8

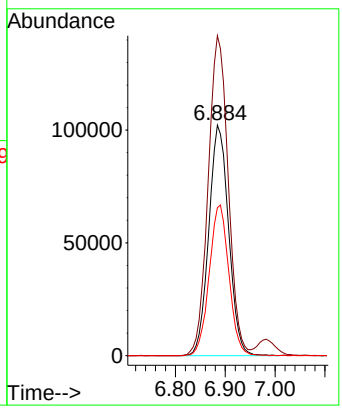




#27
cis-1,2-Dichloroethene
Concen: 54.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 28275

Ion	Ratio	Lower	Upper
96	100		
61	140.4	0.0	278.6
98	64.9	0.0	130.4



Instrument :
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ClientSampleId :
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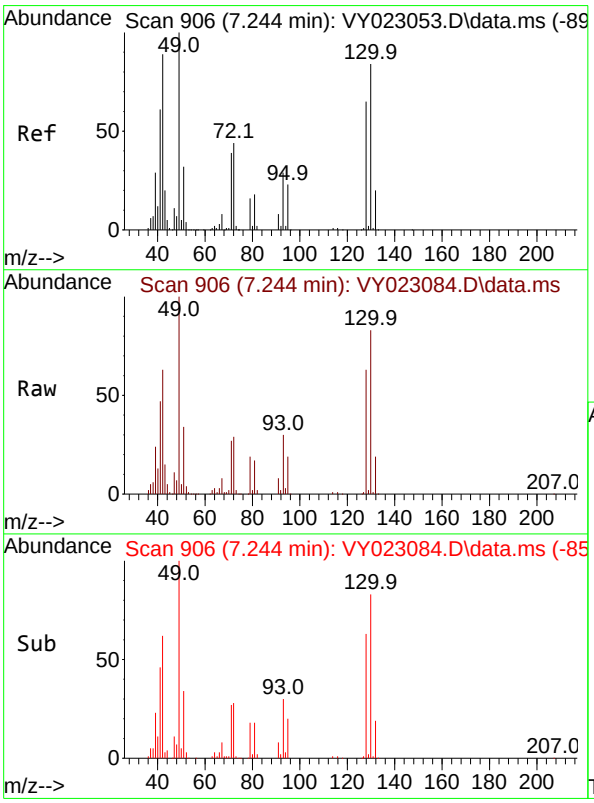
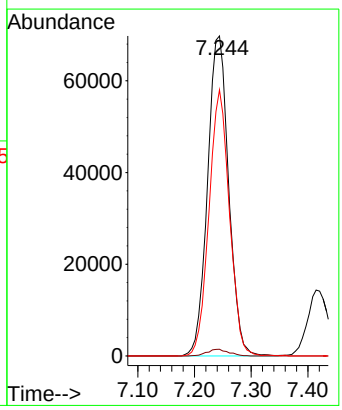
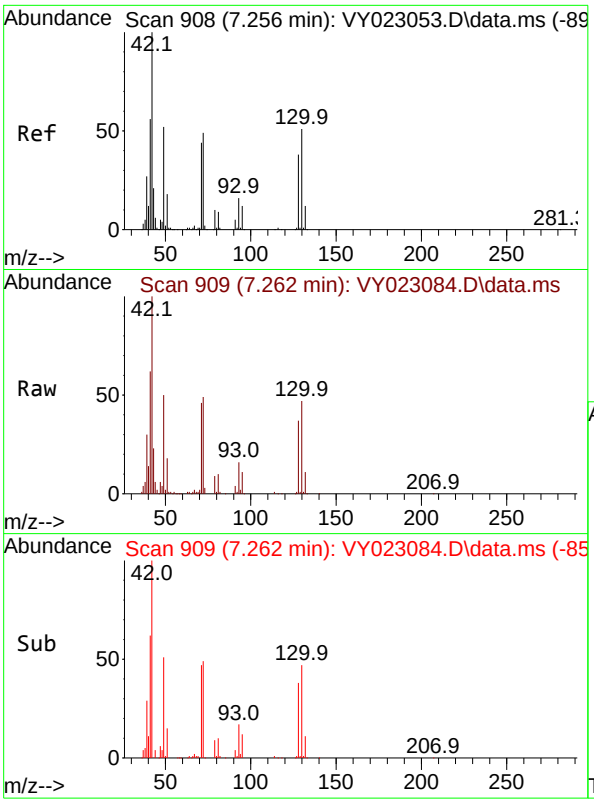


#28
Bromochloromethane
Concen: 58.812 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 49 Resp: 180624

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	80.4	66.4	99.6

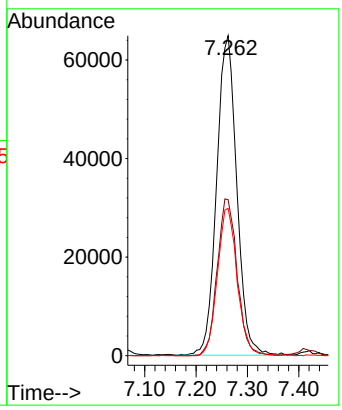




#29
Tetrahydrofuran
Concen: 246.358 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 42 Resp: 17621

Ion	Ratio	Lower	Upper
42	100		
72	48.6	39.4	59.2
71	45.4	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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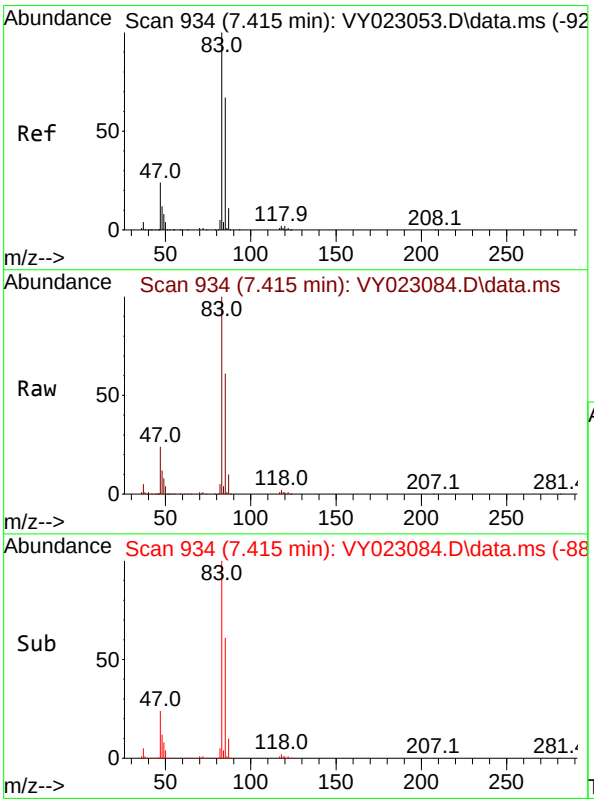
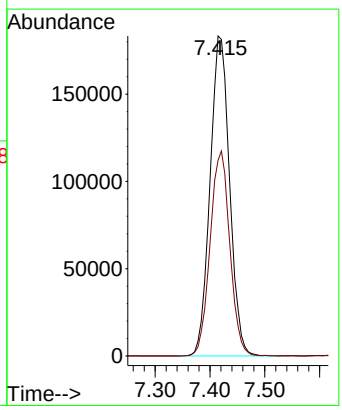
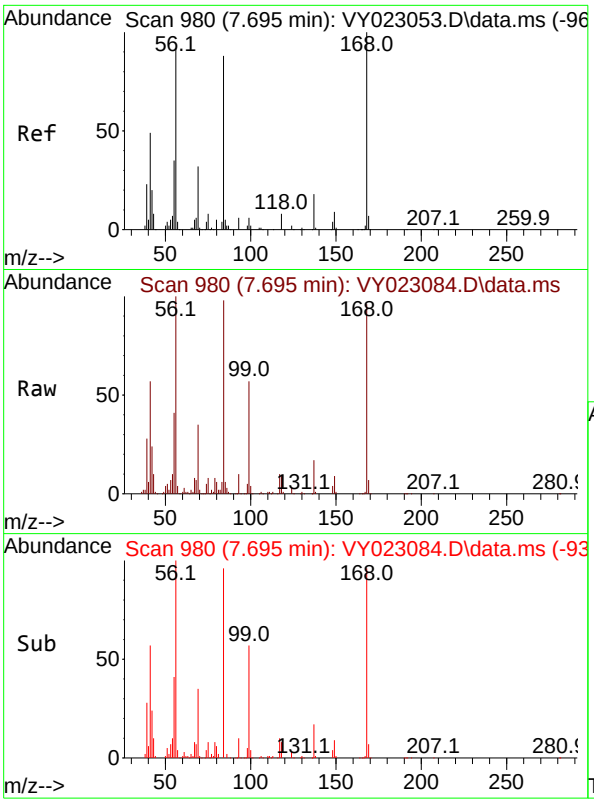


#30
Chloroform
Concen: 56.703 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 452700

Ion	Ratio	Lower	Upper
83	100		
85	61.1	53.8	80.8

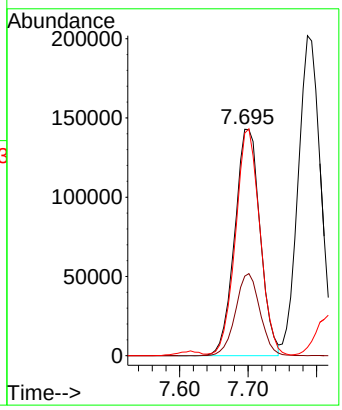




#31
Cyclohexane
Concen: 50.659 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 56 Resp: 36954

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.2	42.2
84	97.3	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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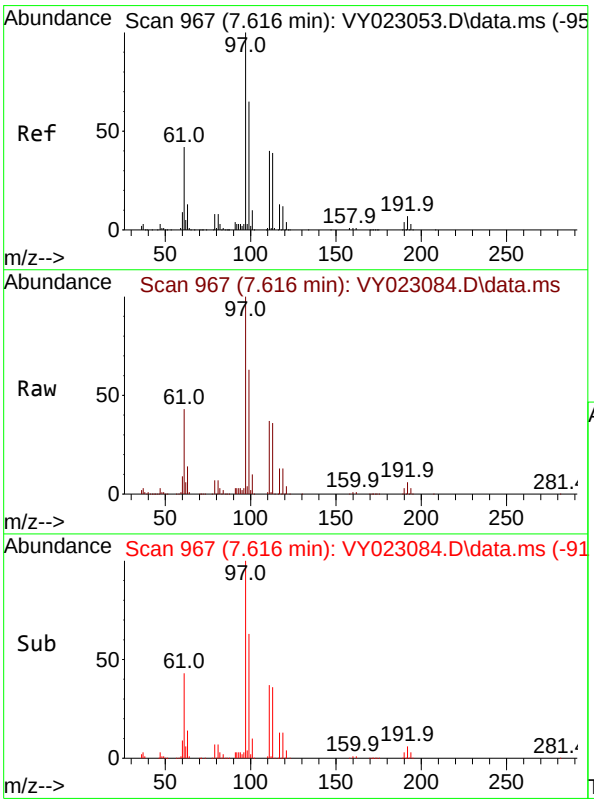
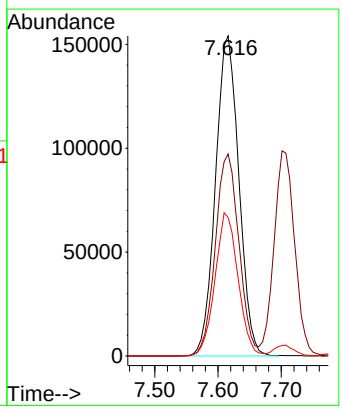
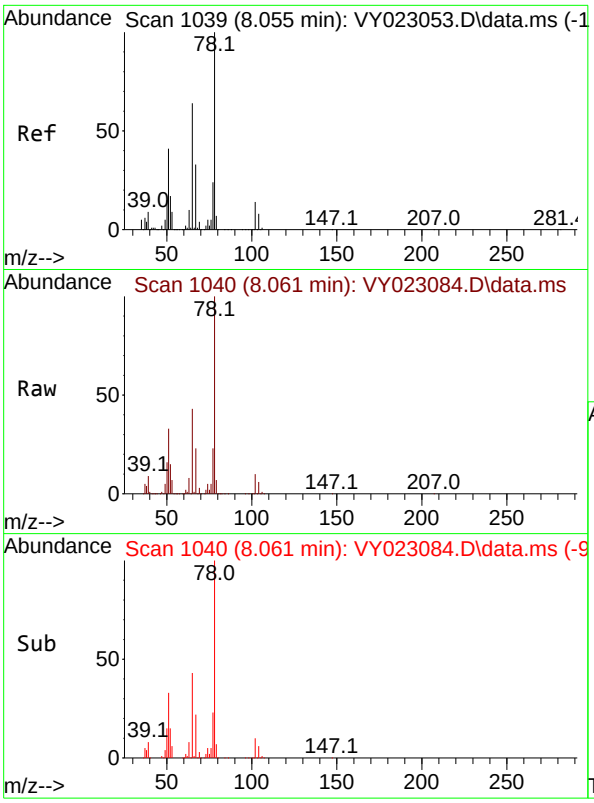


#32
1,1,1-Trichloroethane
Concen: 55.782 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 97 Resp: 395153

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	44.1	34.2	51.2

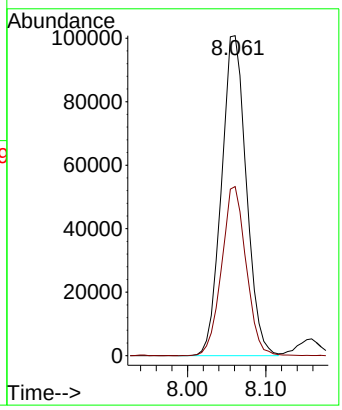




#33
1,2-Dichloroethane-d4
Concen: 56.681 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 65 Resp: 2219

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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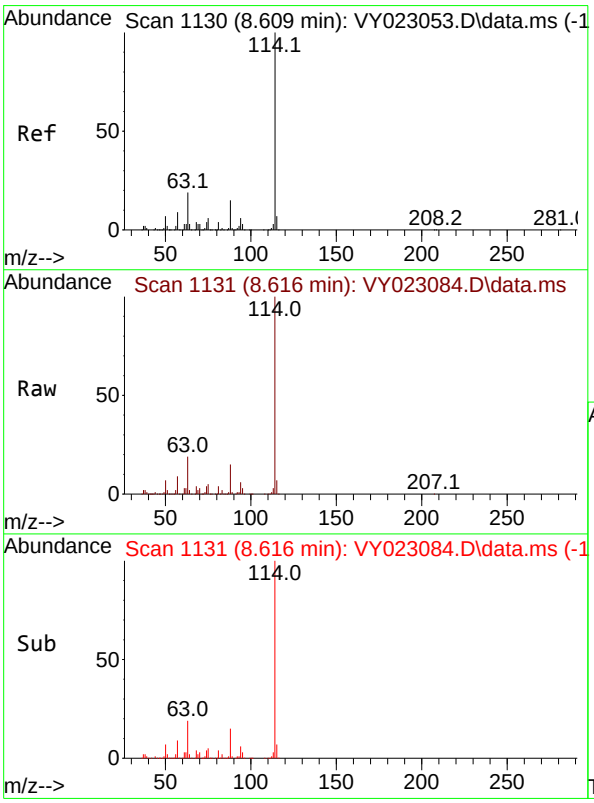
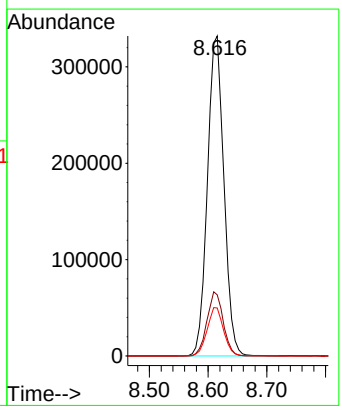
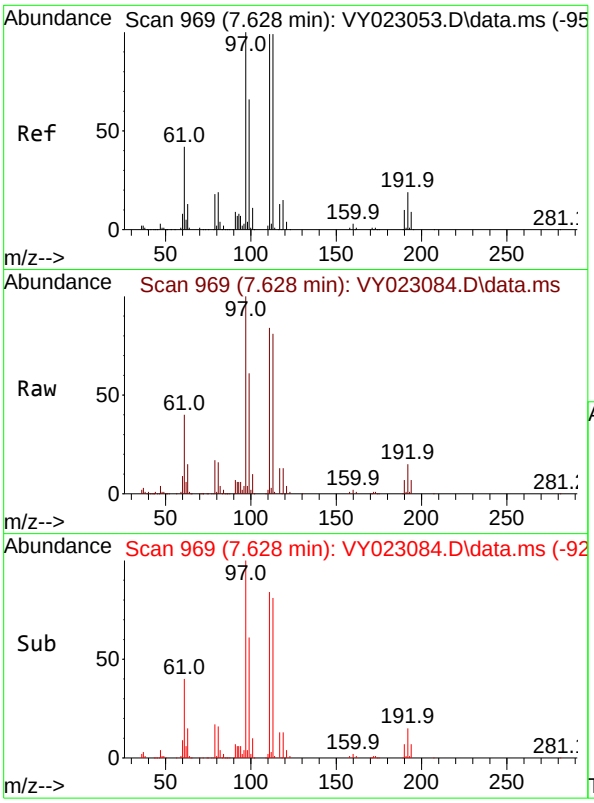


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:114 Resp: 647551

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.4
88	15.0	0.0	30.0

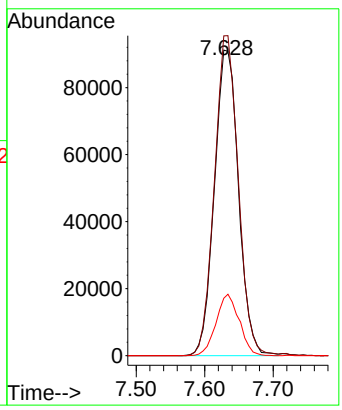




#35
Dibromofluoromethane
Concen: 57.573 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:113 Resp: 22308

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.1	121.7
192	19.3	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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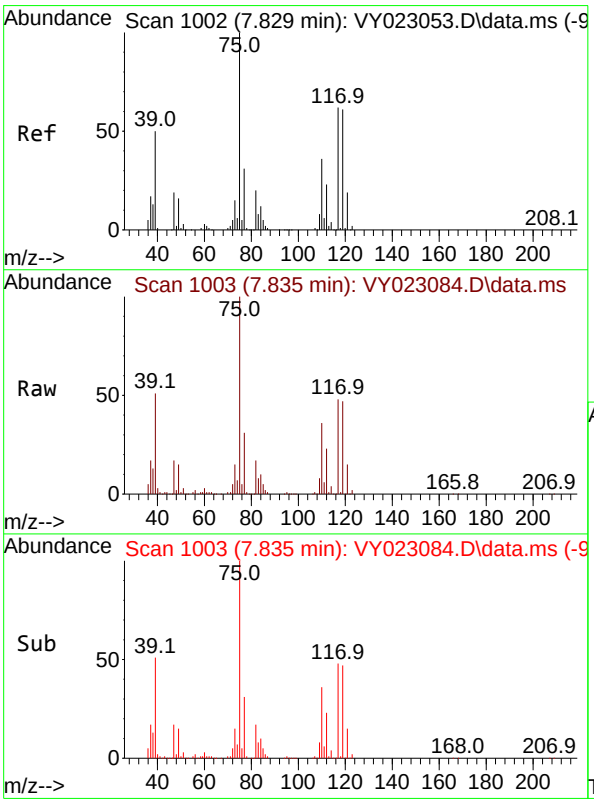
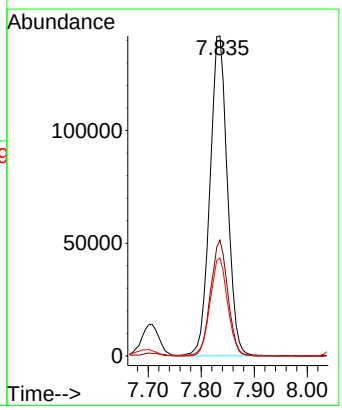
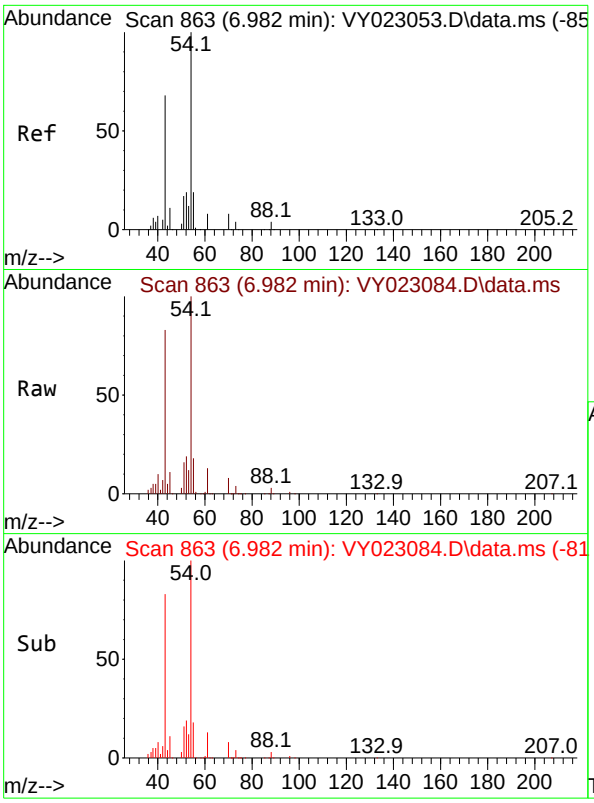


#36
1,1-Dichloropropene
Concen: 56.356 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 324519

Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.4
77	30.9	24.6	37.0





#37
Ethyl Acetate
Concen: 52.667 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 12739

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.9	17.9
70	10.3	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
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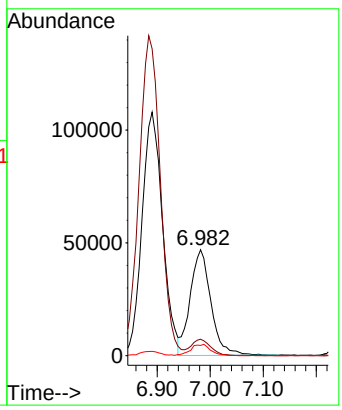
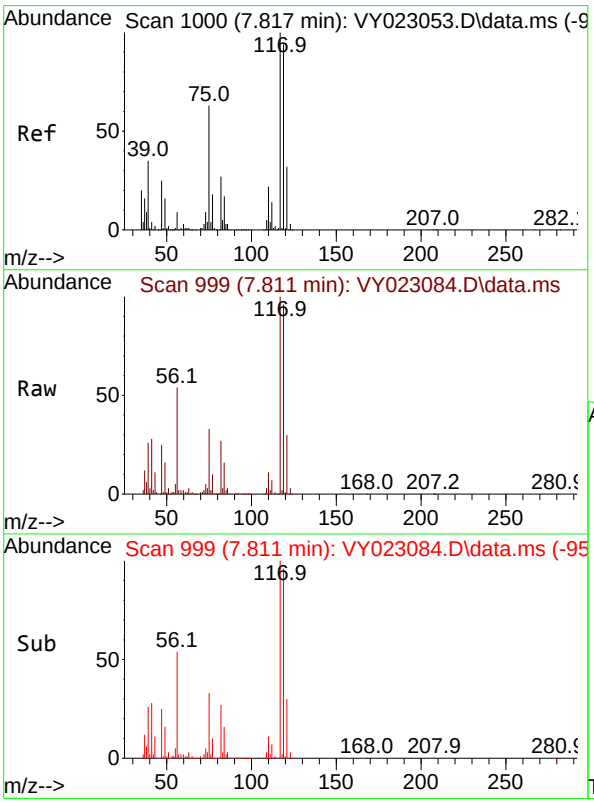
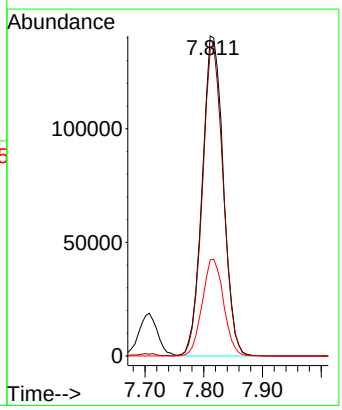


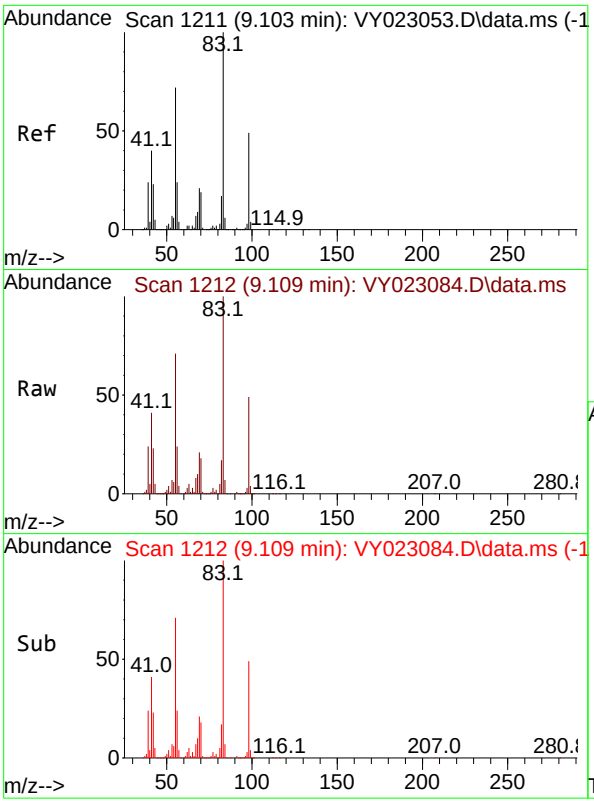


#38
Carbon Tetrachloride
Concen: 56.181 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 351380

Ion	Ratio	Lower	Upper
117	100		
119	95.6	75.6	113.4
121	30.0	25.8	38.8





#39
Methylcyclohexane
Concen: 54.417 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 41264

Ion	Ratio	Lower	Upper
83	100		
55	71.0	57.6	86.4
98	48.8	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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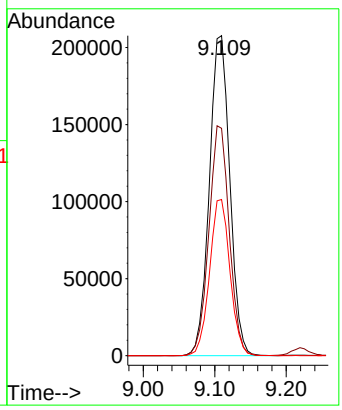
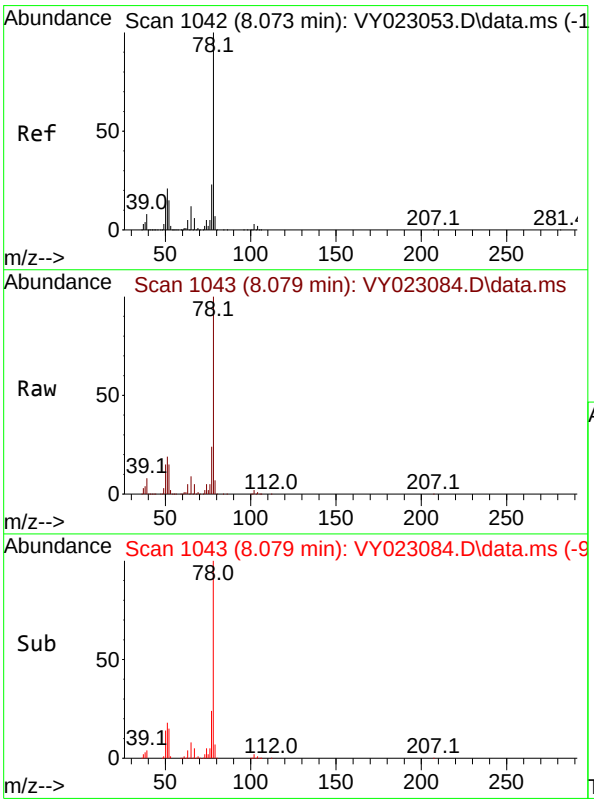
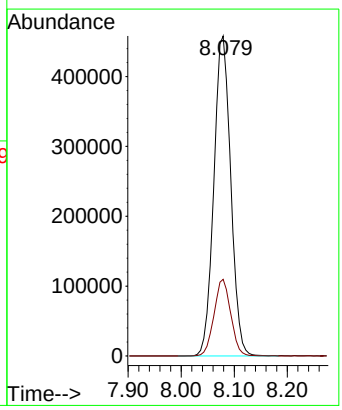


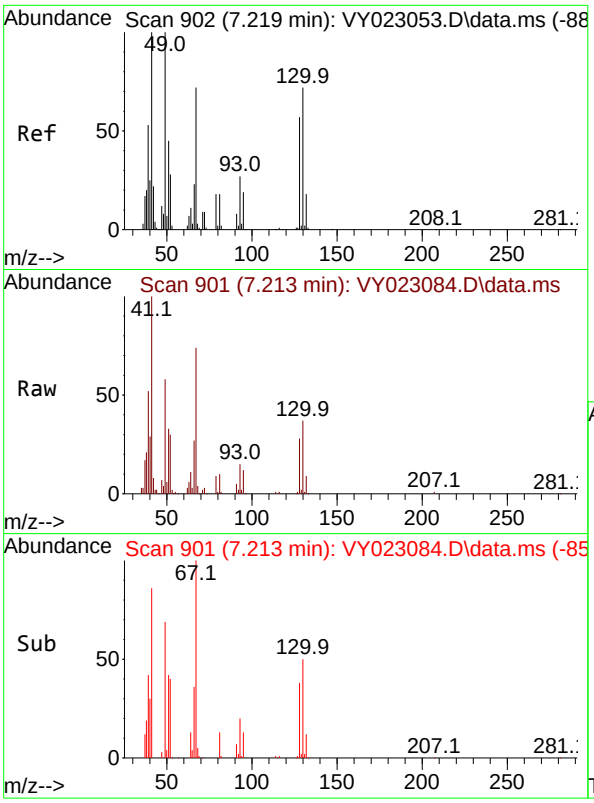


#40
Benzene
Concen: 57.200 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 78 Resp: 1015204

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0

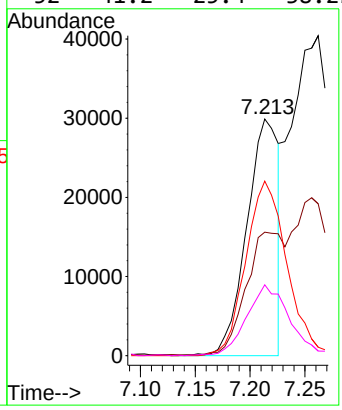




#41
Methacrylonitrile
Concen: 43.117 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 6019

Ion	Ratio	Lower	Upper
41	100		
39	62.5	43.4	65.2
67	95.9	63.6	95.4#
52	41.2	25.4	38.2#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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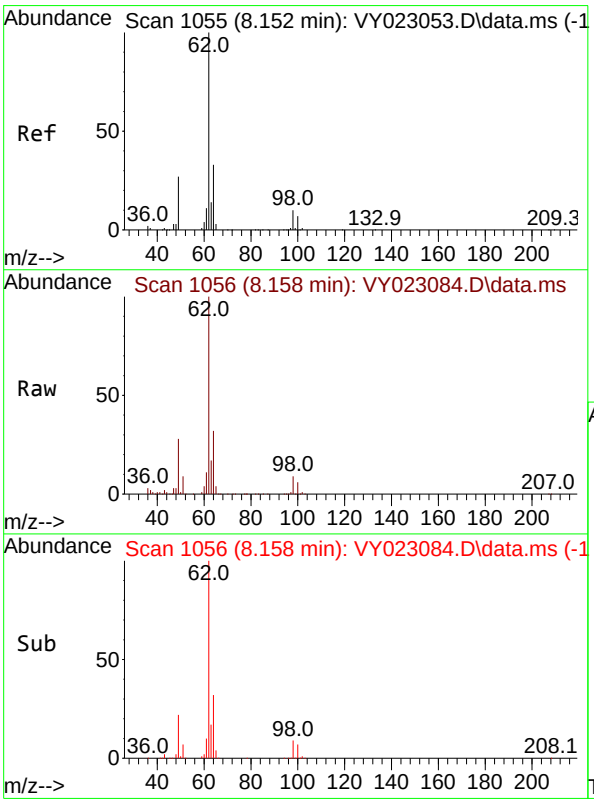
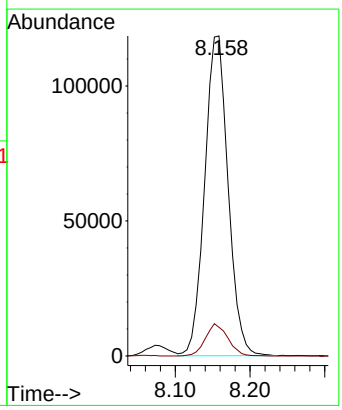
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

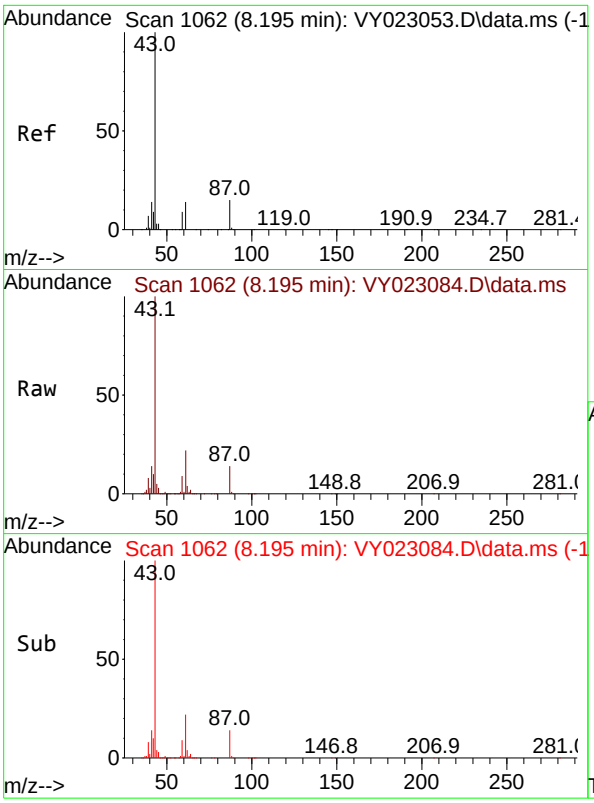


#42
1,2-Dichloroethane
Concen: 55.883 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 257953

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6





#43
Isopropyl Acetate
Concen: 50.705 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 24790

Ion	Ratio	Lower	Upper
43	100		
61	21.2	16.4	24.6
87	14.2	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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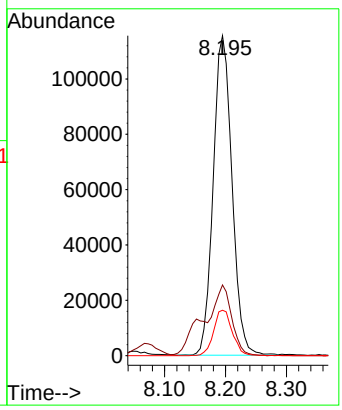
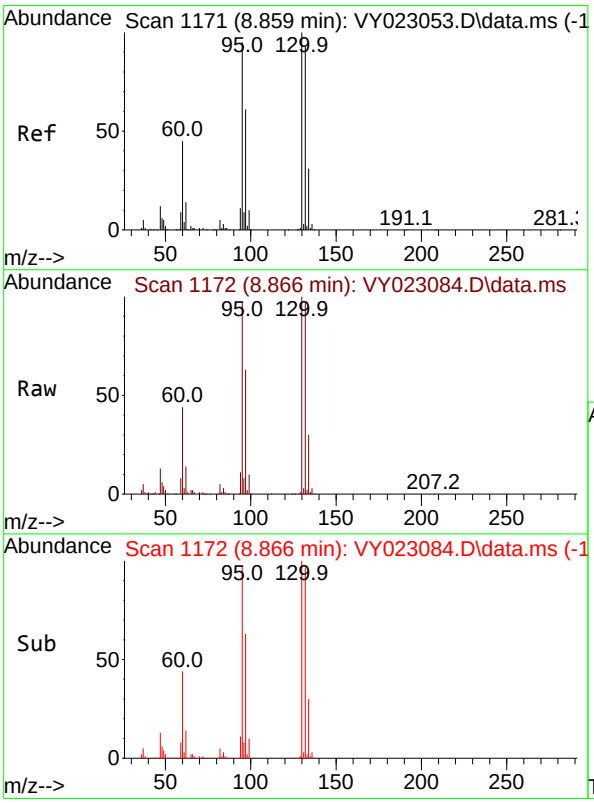
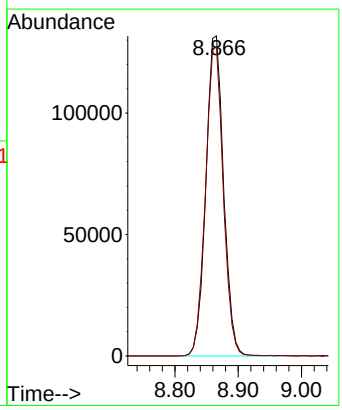


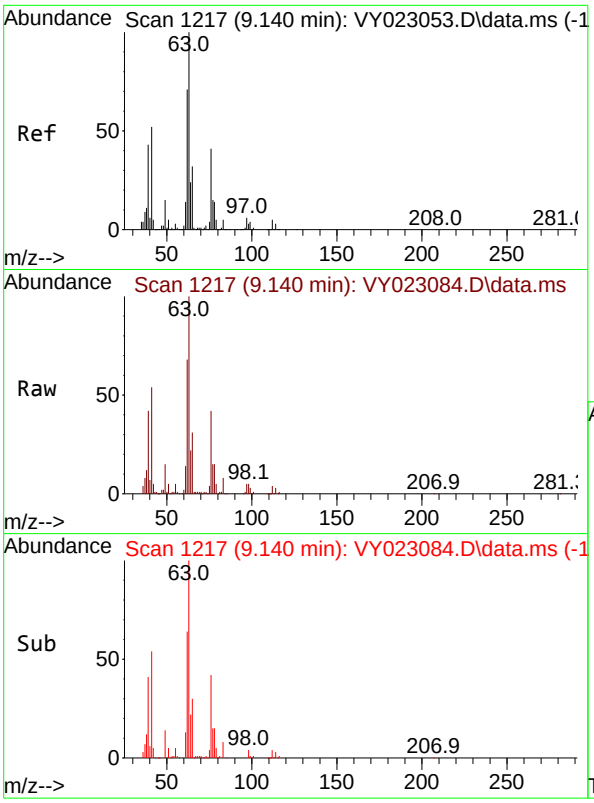


#44
Trichloroethene
Concen: 56.001 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:130 Resp: 256850

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	190.2

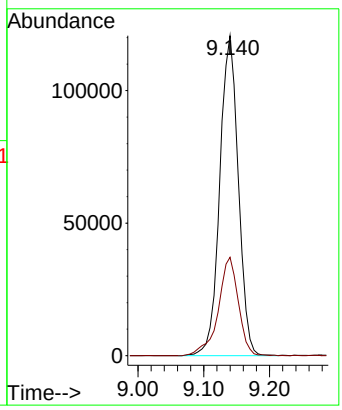




#45
1,2-Dichloropropane
Concen: 58.028 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 23696

Ion	Ratio	Lower	Upper
63	100		
65	30.7	25.3	37.9



Instrument :
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ClientSampleId :
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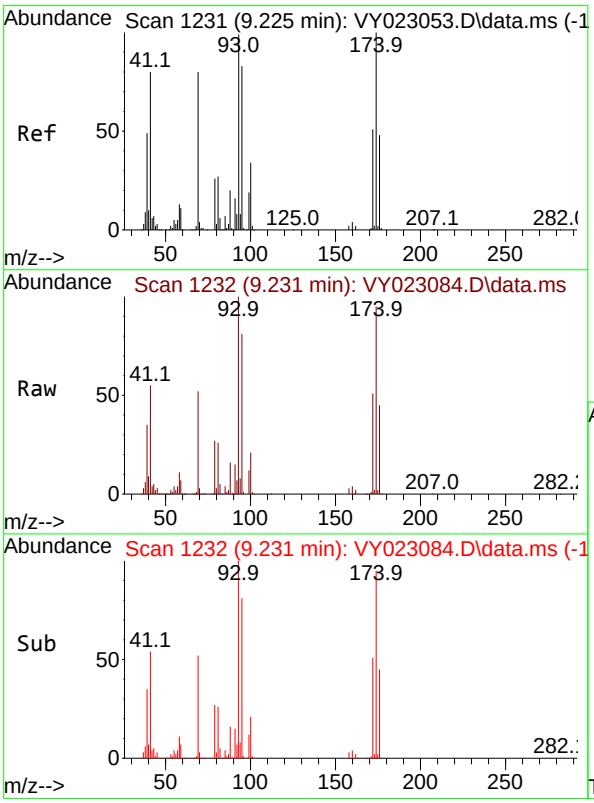
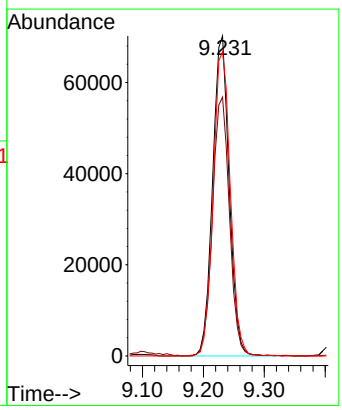
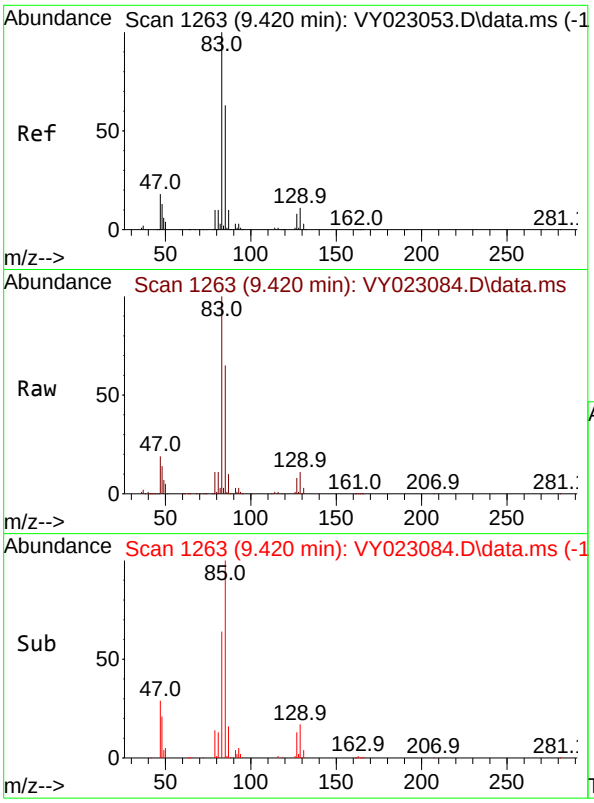


#46
Dibromomethane
Concen: 56.649 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 93 Resp: 132779

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.5	99.7
174	98.1	81.8	122.8

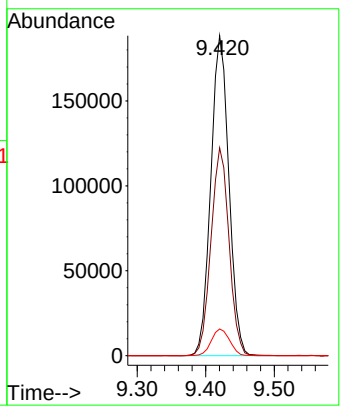




#47
Bromodichloromethane
Concen: 57.122 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 34451

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.2	75.4
127	8.3	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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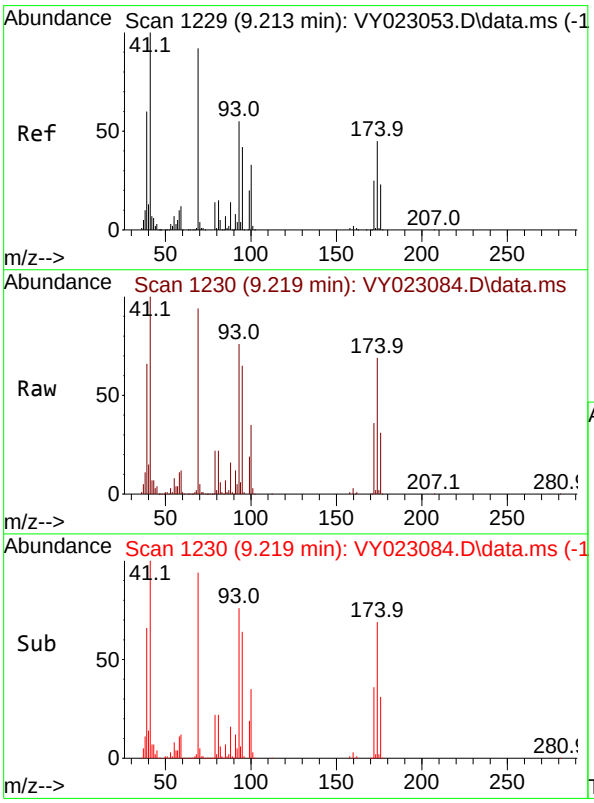
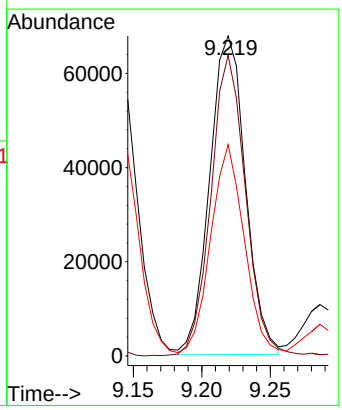
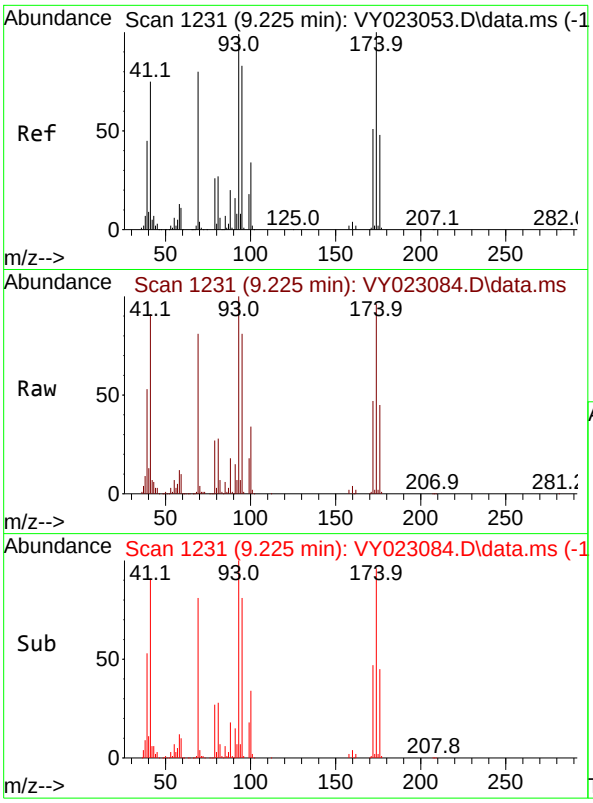


#48
Methyl methacrylate
Concen: 52.585 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 123024

Ion	Ratio	Lower	Upper
41	100		
69	91.9	73.2	109.8
39	60.6	47.0	70.4





#49
1,4-Dioxane
Concen: 1033.218 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 88 Resp: 2839

Ion	Ratio	Lower	Upper
88	100		
43	32.2	24.3	36.5
58	64.3	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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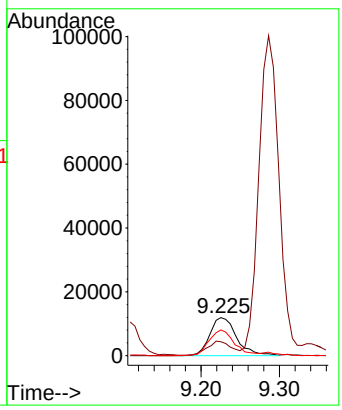
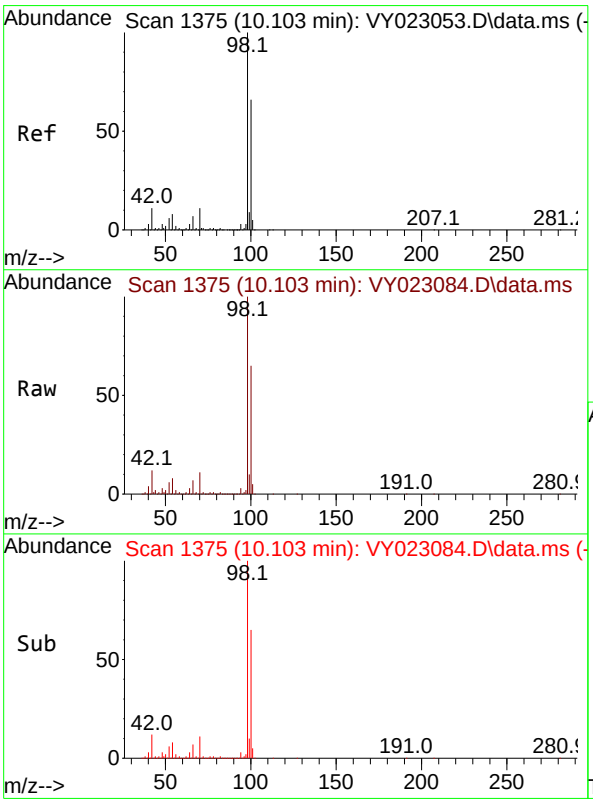
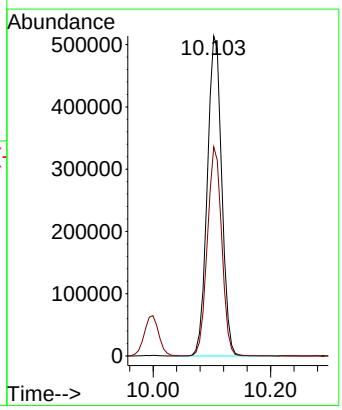


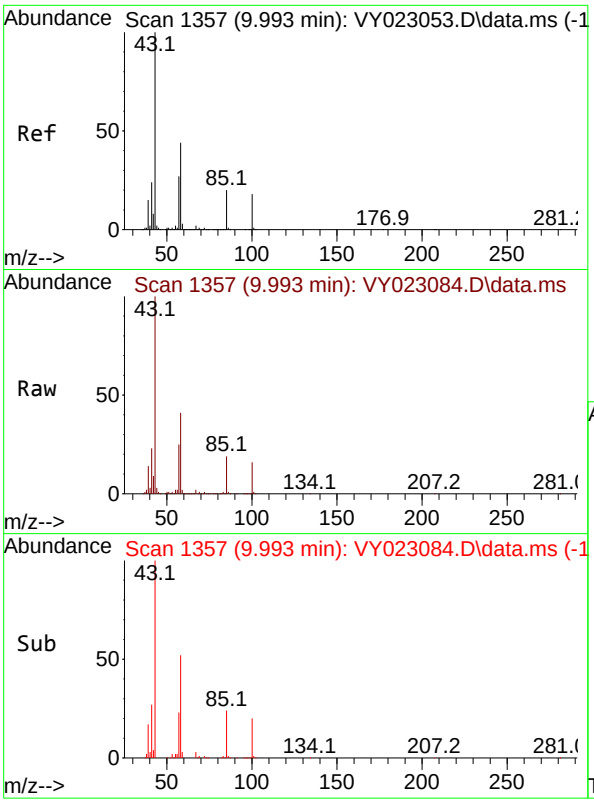


#50
Toluene-d8
Concen: 57.835 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 98 Resp: 875441

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5

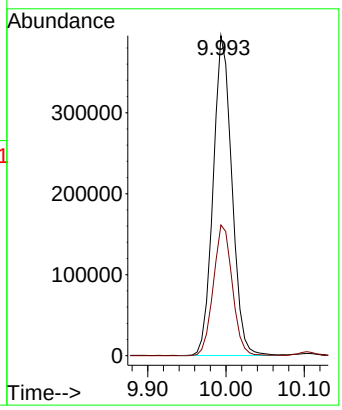




#51
4-Methyl-2-Pentanone
Concen: 260.657 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 65735

Ion	Ratio	Lower	Upper
43	100		
58	41.5	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
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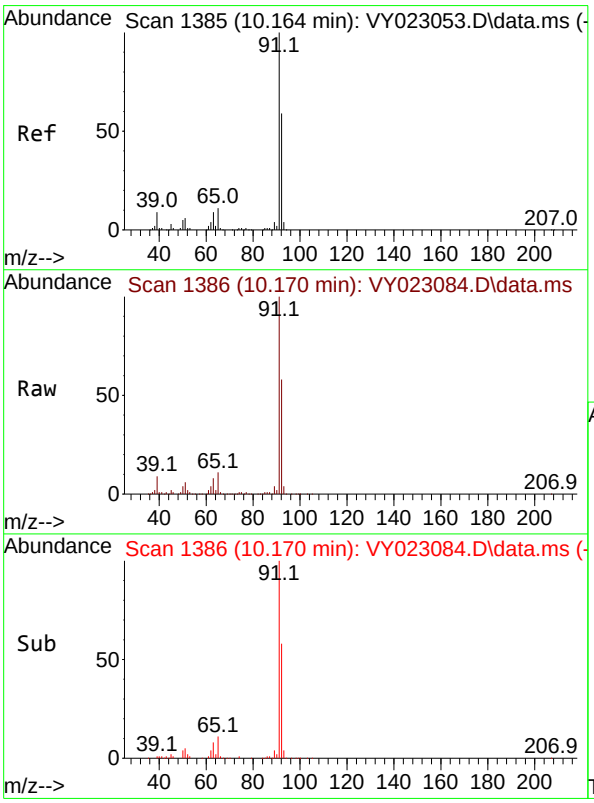
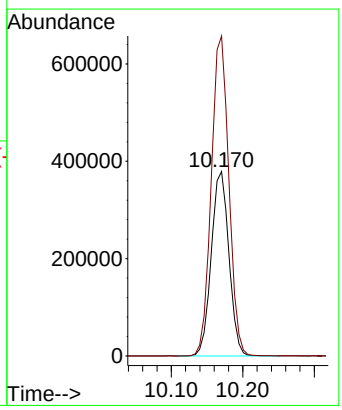
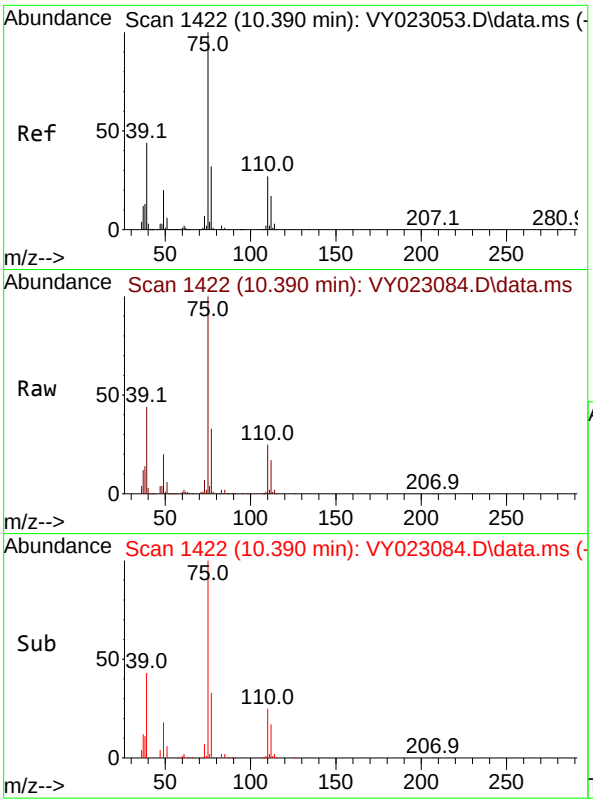


#52
Toluene
Concen: 57.441 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 92 Resp: 647492

Ion	Ratio	Lower	Upper
92	100		
91	173.1	136.4	204.6

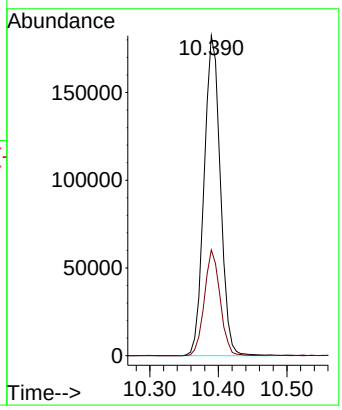




#53
t-1,3-Dichloropropene
Concen: 55.165 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 30128

Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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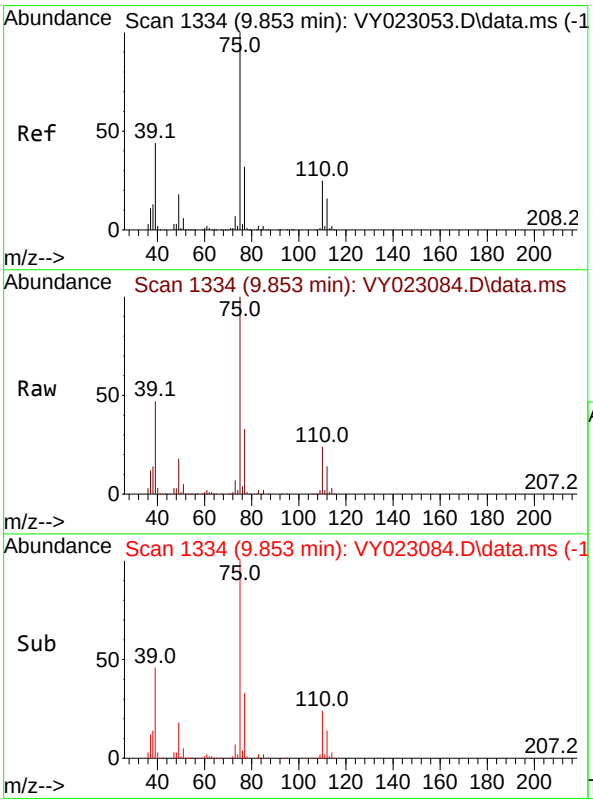
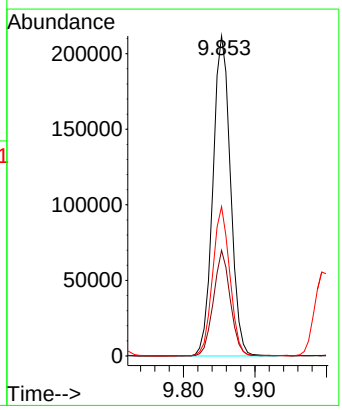
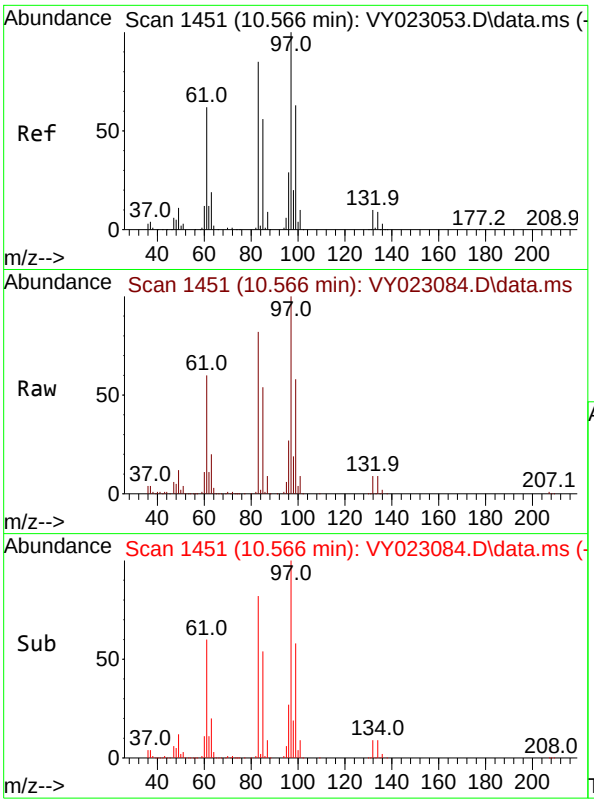


#54
cis-1,3-Dichloropropene
Concen: 55.890 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 360945

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.4	38.0
39	46.5	35.6	53.4

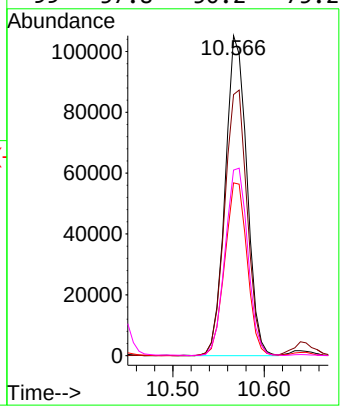




#55
1,1,2-Trichloroethane
Concen: 55.184 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 97 Resp: 173079

Ion	Ratio	Lower	Upper
97	100		
83	81.6	67.7	101.5
85	54.0	44.5	66.7
99	57.8	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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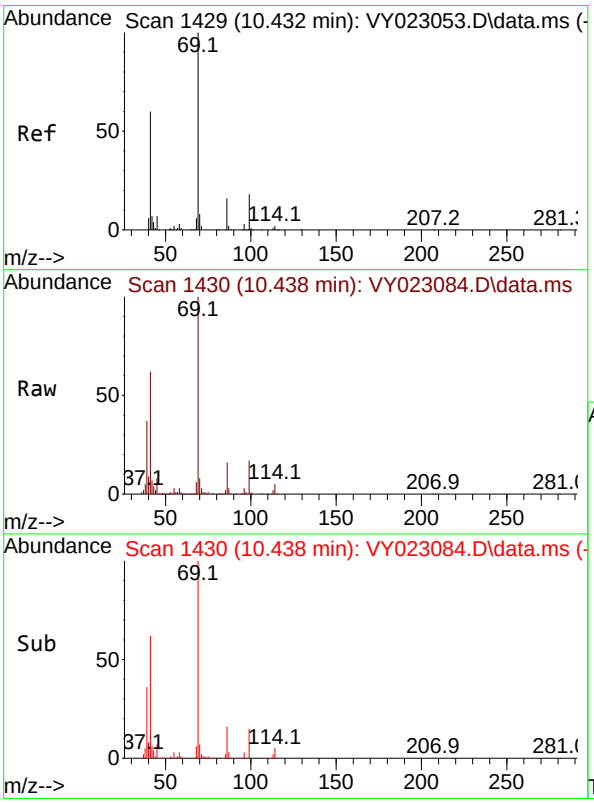
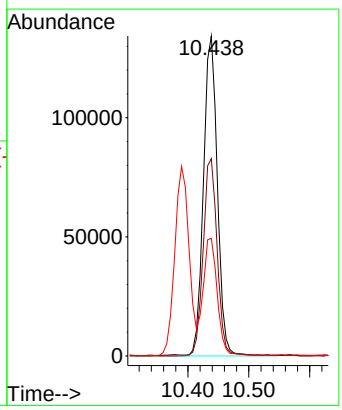
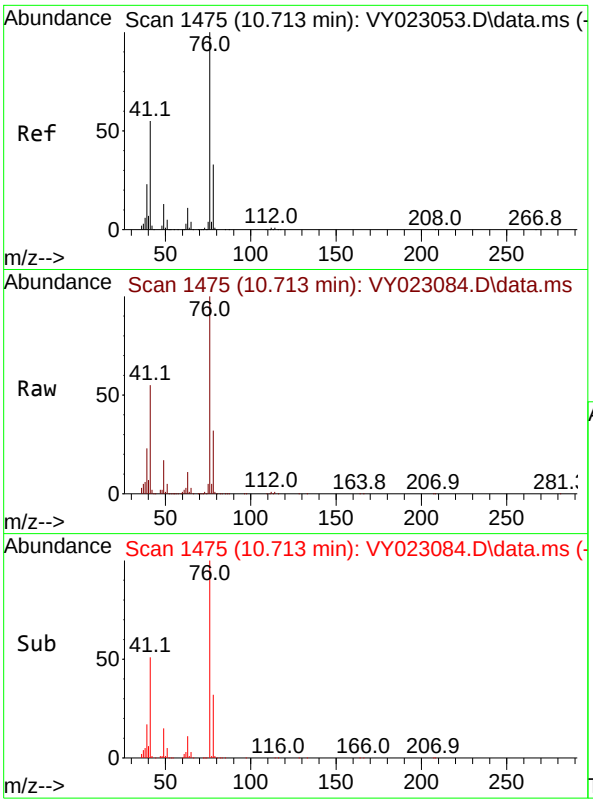


#56
Ethyl methacrylate
Concen: 53.193 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 69 Resp: 213481

Ion	Ratio	Lower	Upper
69	100		
41	61.4	48.6	72.8
39	37.0	27.0	40.4

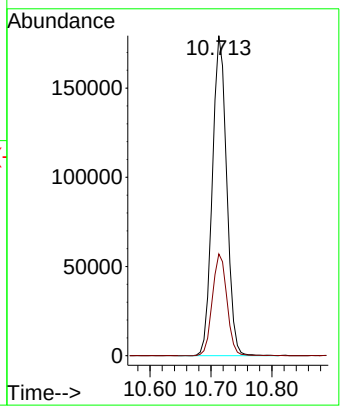




#57
1,3-Dichloropropane
Concen: 55.040 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 76 Resp: 29276

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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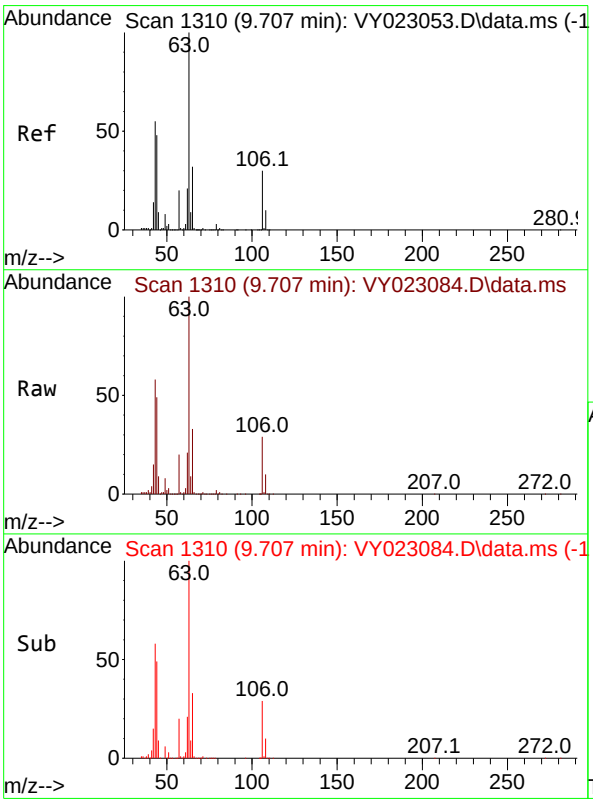
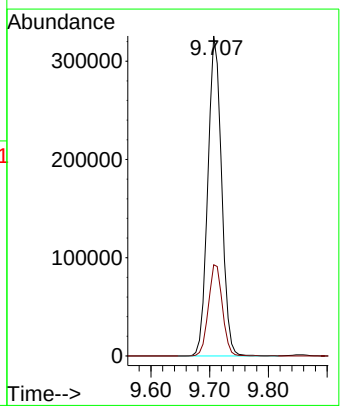
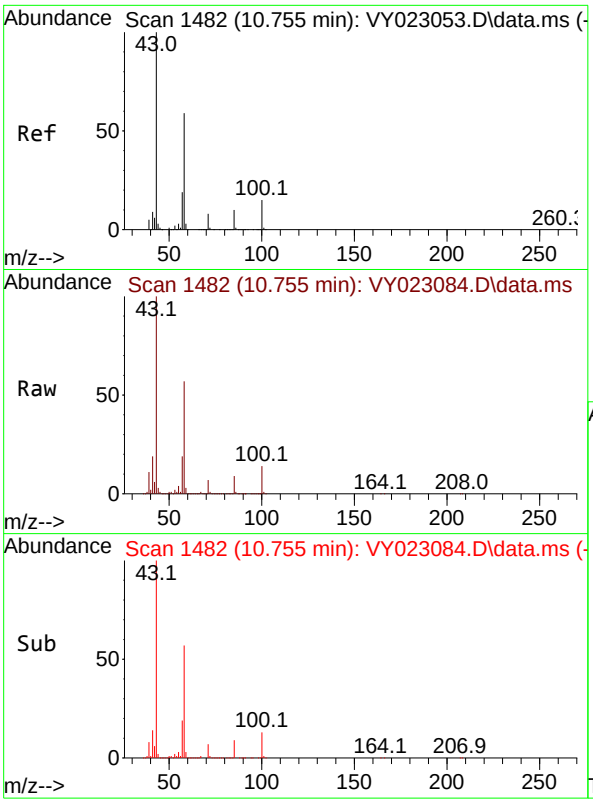


#58
2-Chloroethyl Vinyl ether
Concen: 280.099 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 530251

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8





#59
2-Hexanone
Concen: 257.924 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 44292

Ion	Ratio	Lower	Upper
43	100		
58	57.4	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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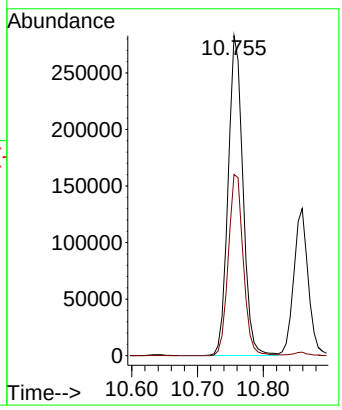
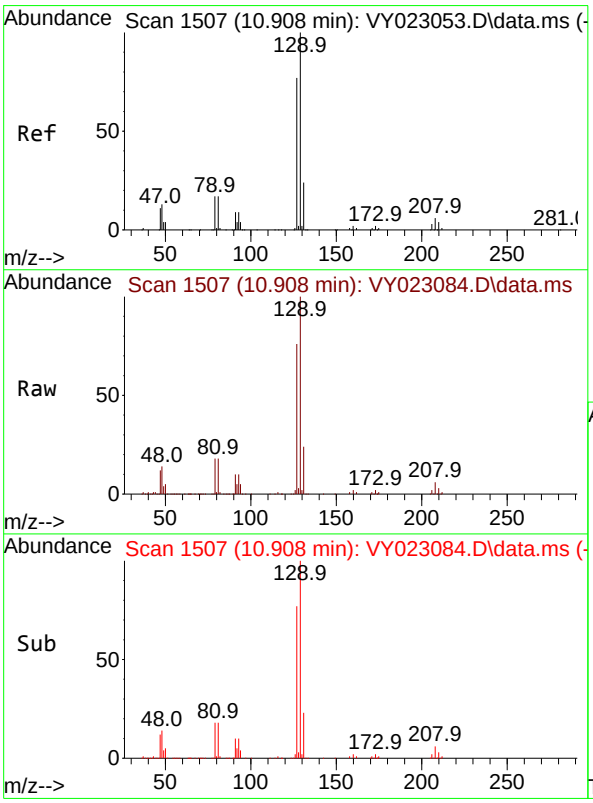
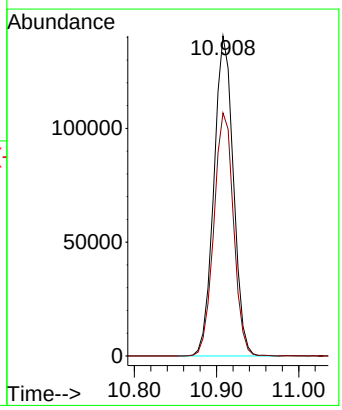


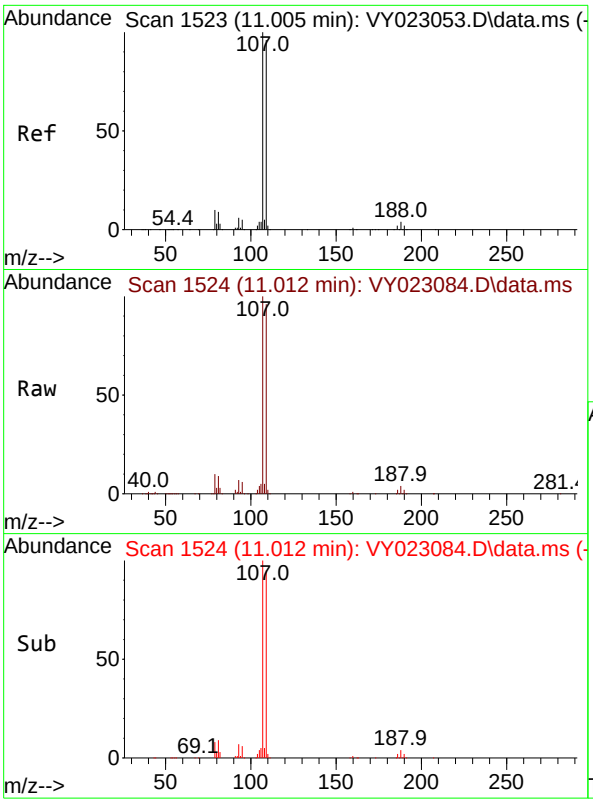


#60
Dibromochloromethane
Concen: 55.947 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:129 Resp: 231534

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.5	115.5

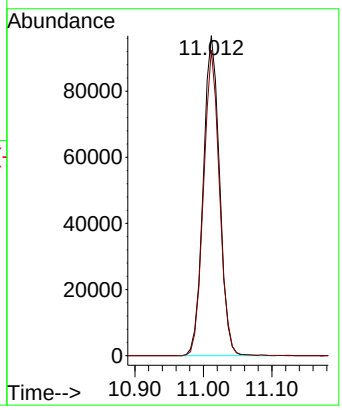




#61
1,2-Dibromoethane
Concen: 54.265 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:107 Resp: 15996

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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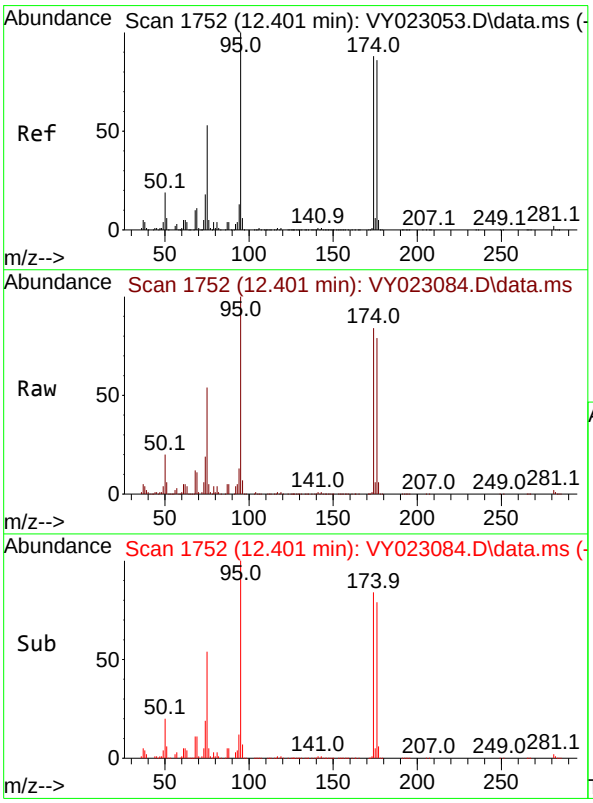
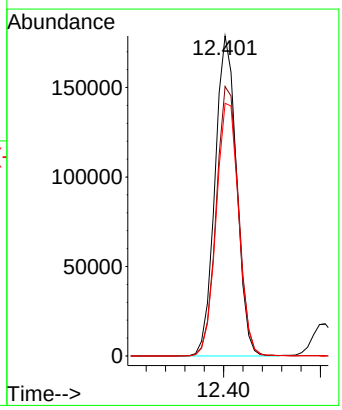
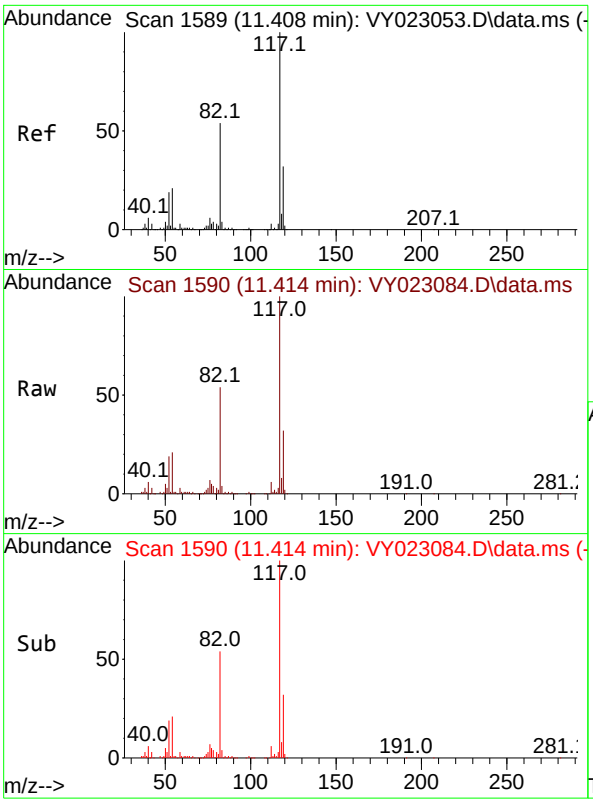


#62
4-Bromofluorobenzene
Concen: 56.822 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 95 Resp: 276611

Ion	Ratio	Lower	Upper
95	100		
174	86.6	0.0	171.6
176	82.3	0.0	167.6

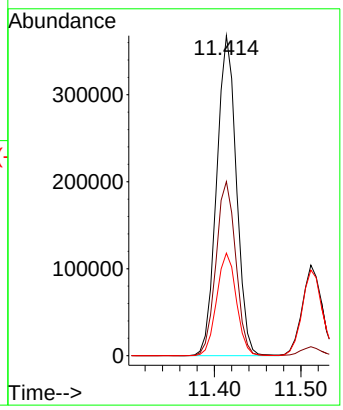




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 58204

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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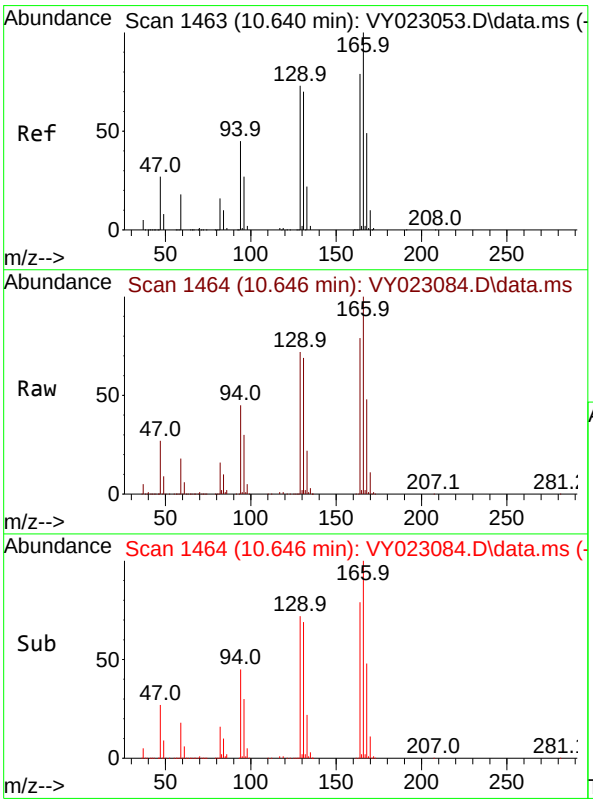
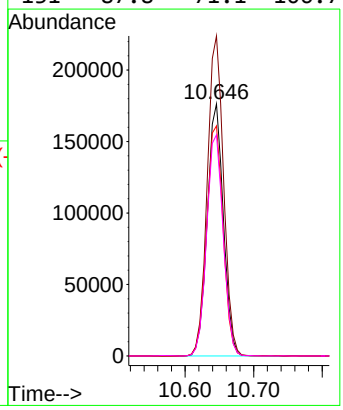
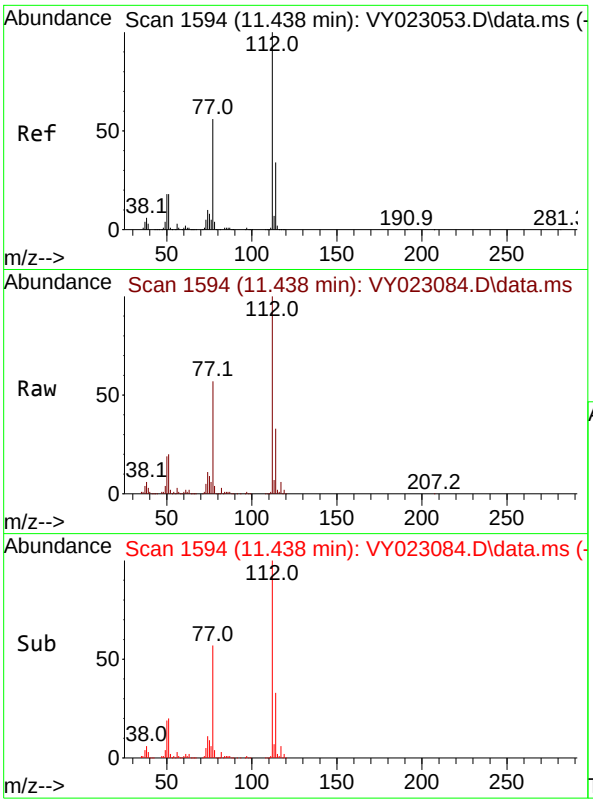


#64
Tetrachloroethene
Concen: 55.420 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:164 Resp: 288037

Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.1	151.7
129	91.4	74.0	111.0
131	87.8	71.1	106.7

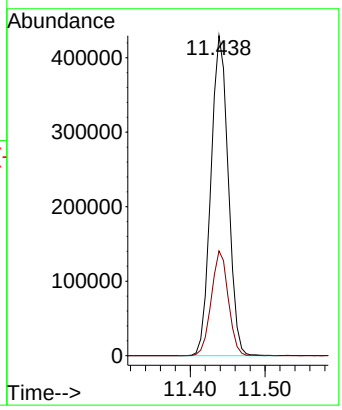




#65
Chlorobenzene
Concen: 55.261 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:112 Resp: 69378

Ion	Ratio	Lower	Upper
112	100		
114	32.7	27.0	40.4



Instrument :
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ClientSampleId :
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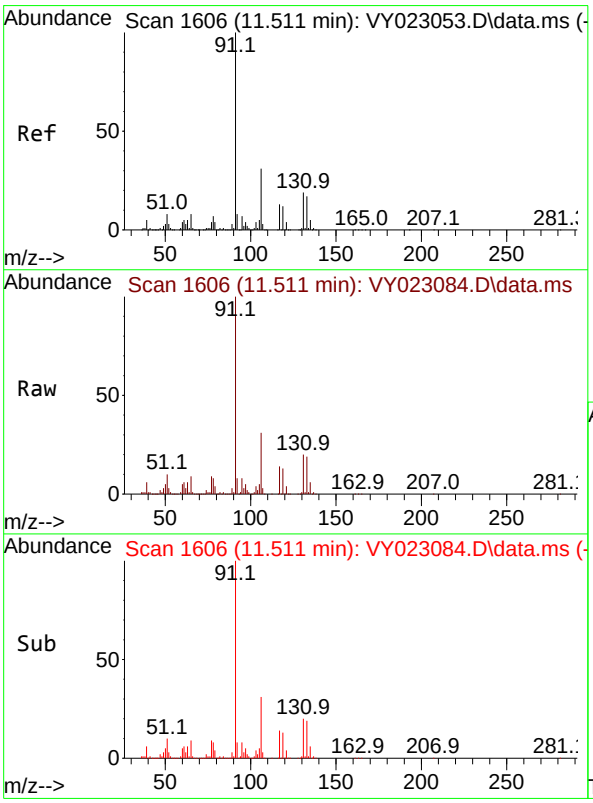
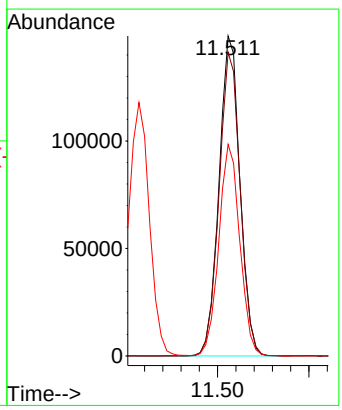
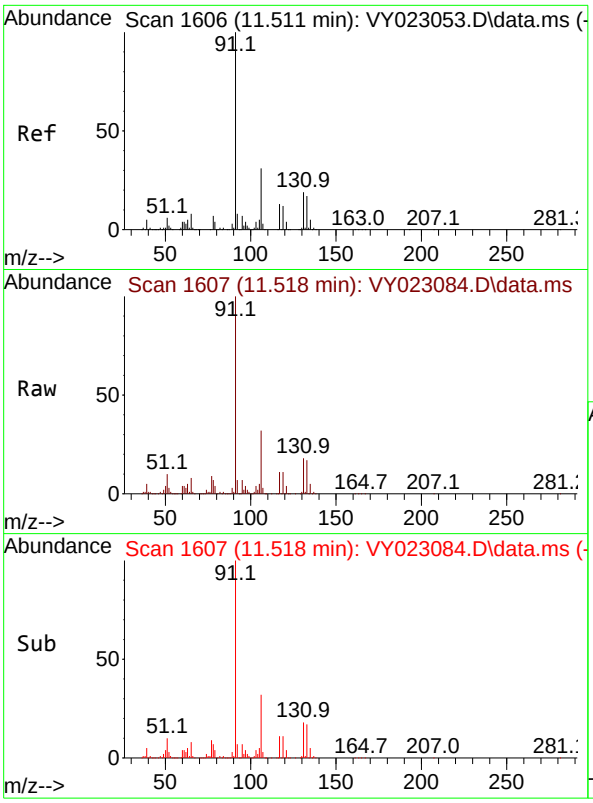


#66
1,1,1,2-Tetrachloroethane
Concen: 55.623 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:131 Resp: 237008

Ion	Ratio	Lower	Upper
131	100		
133	95.6	46.9	140.6
119	66.3	33.2	99.6

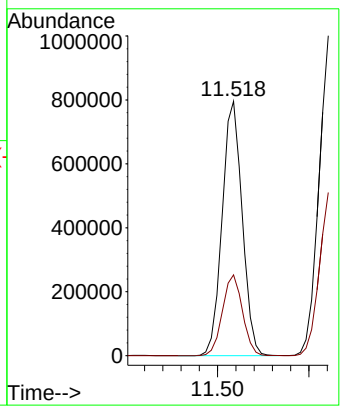




#67
Ethyl Benzene
Concen: 56.146 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 121307

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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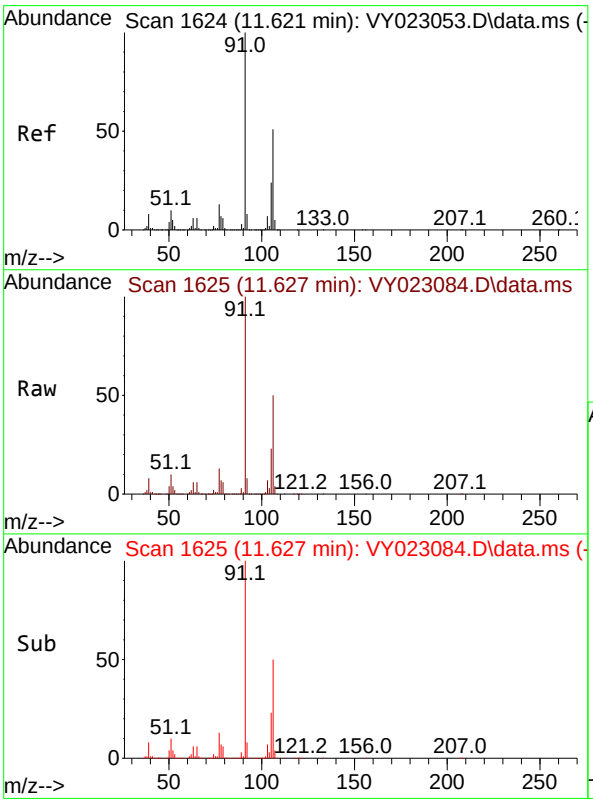
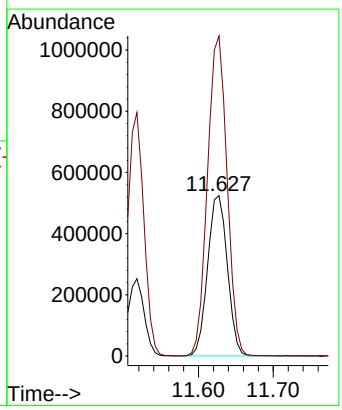
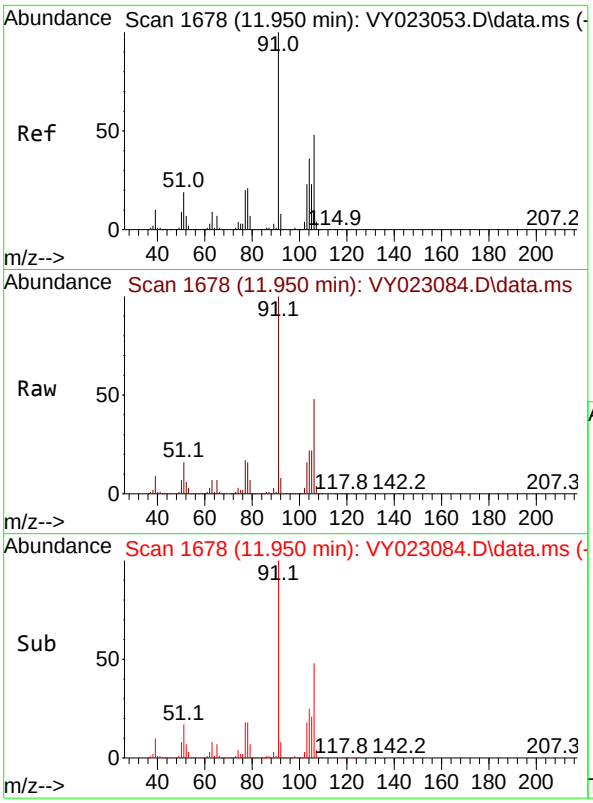


#68
m/p-Xylenes
Concen: 113.678 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:106 Resp: 959256

Ion	Ratio	Lower	Upper
106	100		
91	198.3	158.6	238.0





#69
o-Xylene
Concen: 56.368 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:106 Resp: 44549

Ion	Ratio	Lower	Upper
106	100		
91	207.9	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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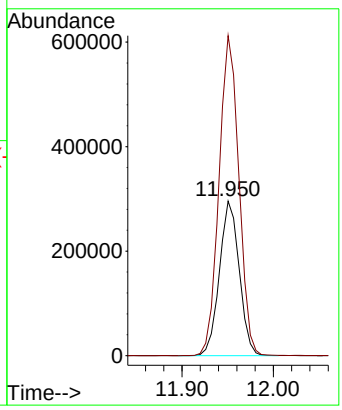
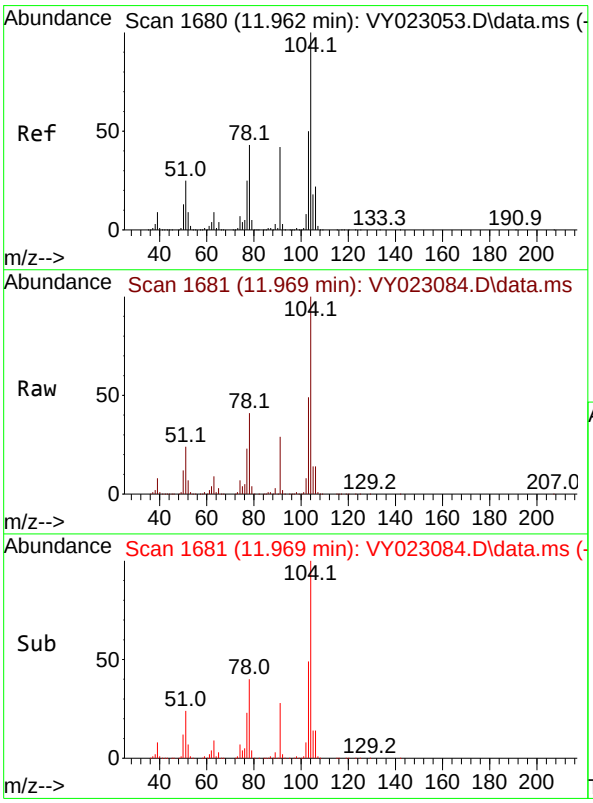
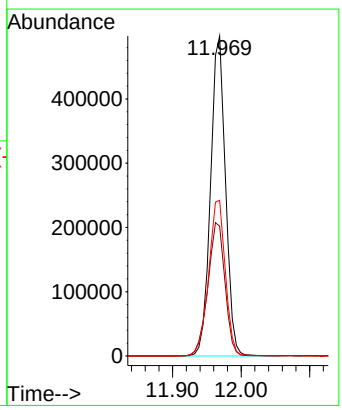


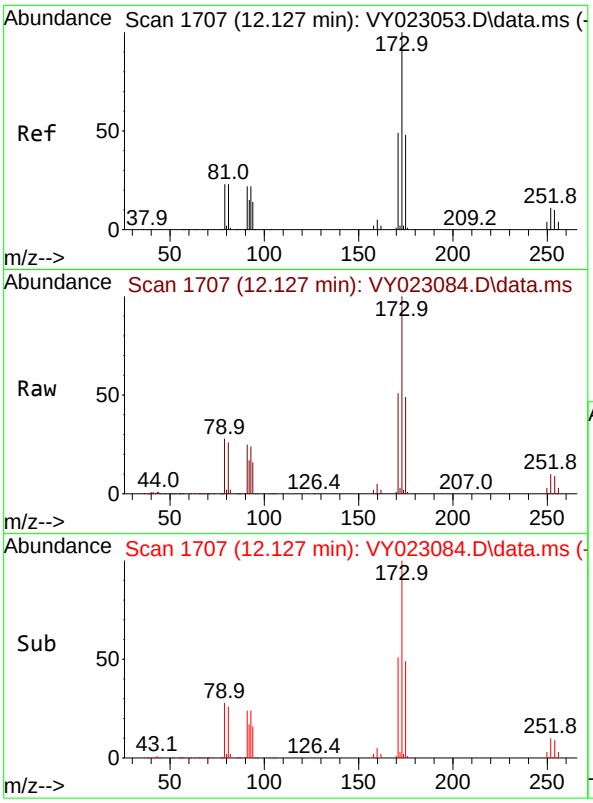


#70
Styrene
Concen: 58.442 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:104 Resp: 755359

Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.5	57.7
103	54.3	43.7	65.5

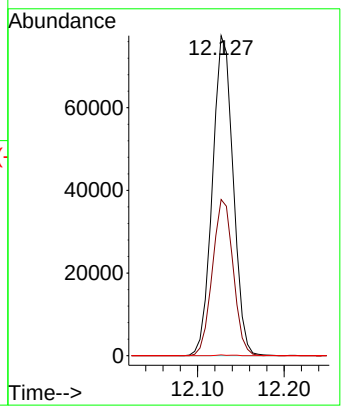




#71
Bromoform
Concen: 51.645 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:173 Resp: 12861

Ion	Ratio	Lower	Upper
173	100		
175	49.0	23.9	71.7
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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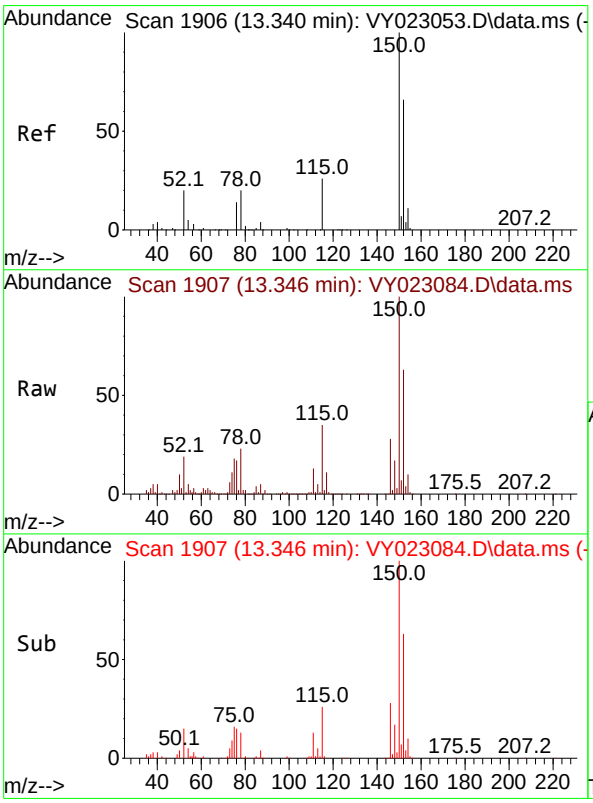
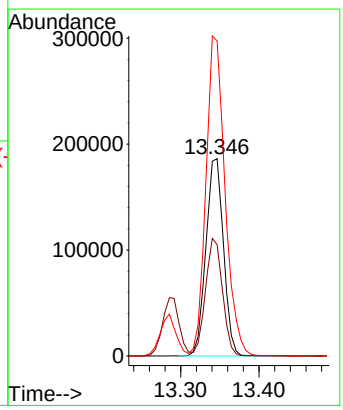
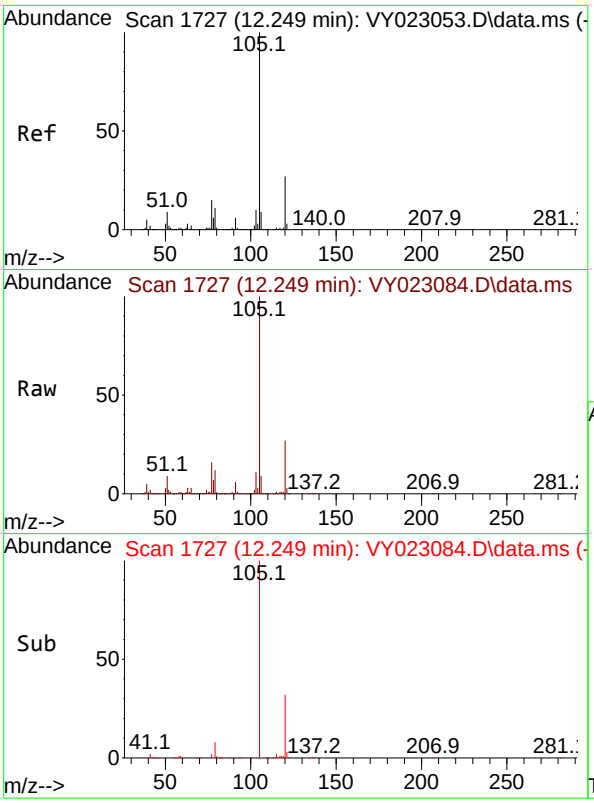


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:152 Resp: 290049

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.2	84.6
150	176.3	0.0	348.0

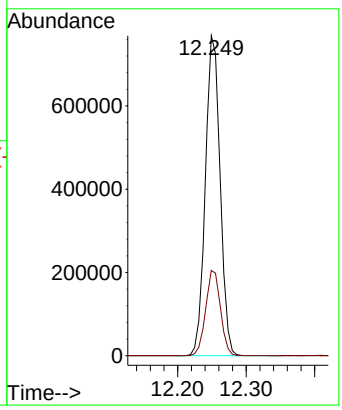




#73
Isopropylbenzene
Concen: 56.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 115314

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2



Instrument :
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ClientSampleId :
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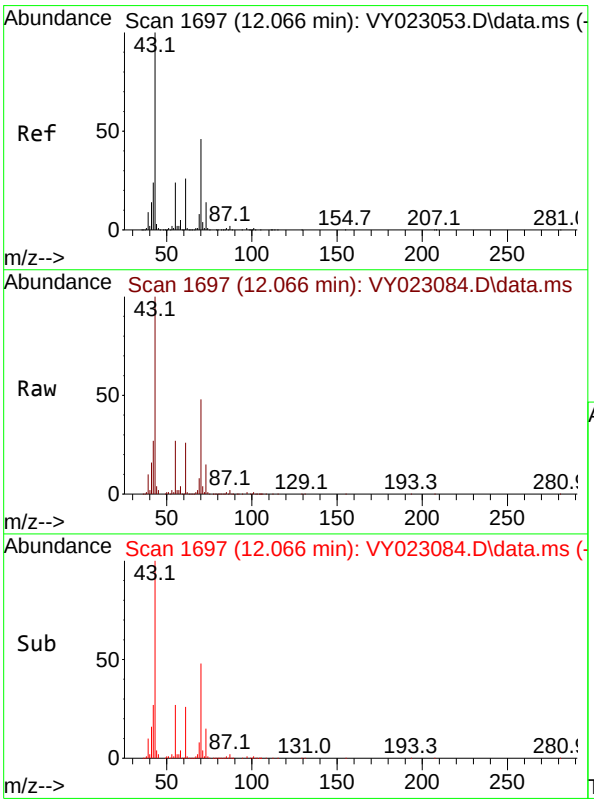
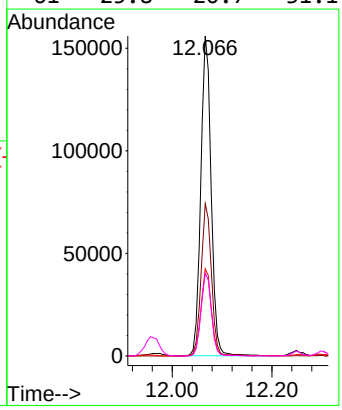
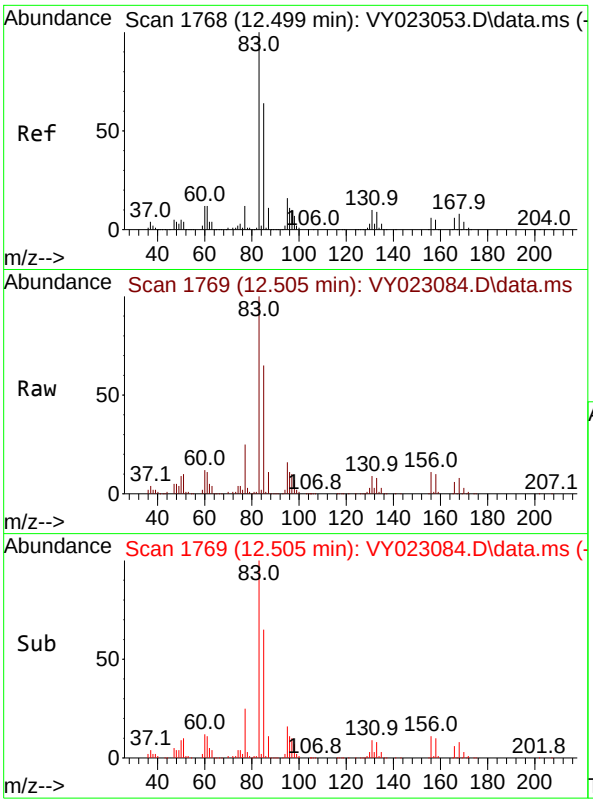


#74
N-amyl acetate
Concen: 51.690 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 224404

Ion	Ratio	Lower	Upper
43	100		
70	47.2	37.5	56.3
55	27.8	20.7	31.1
61	25.8	20.7	31.1

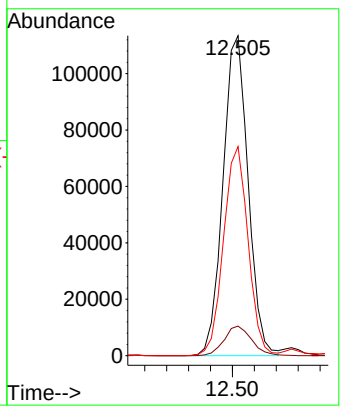




#75
1,1,2,2-Tetrachloroethane
Concen: 51.630 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 18047

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	64.0	31.8	95.3



Instrument :
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ClientSampleId :
VSTDCCC050

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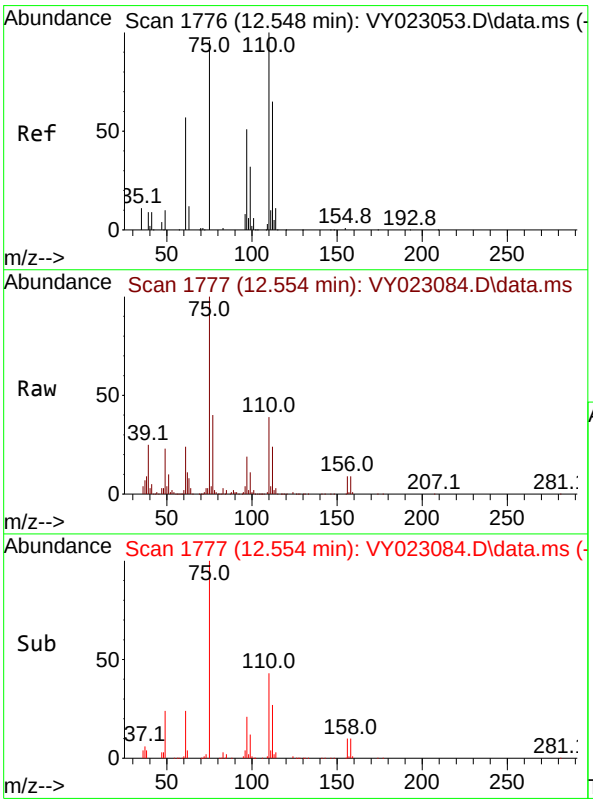
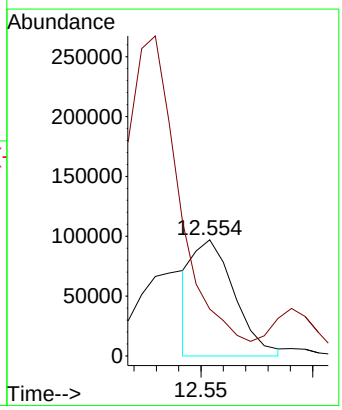
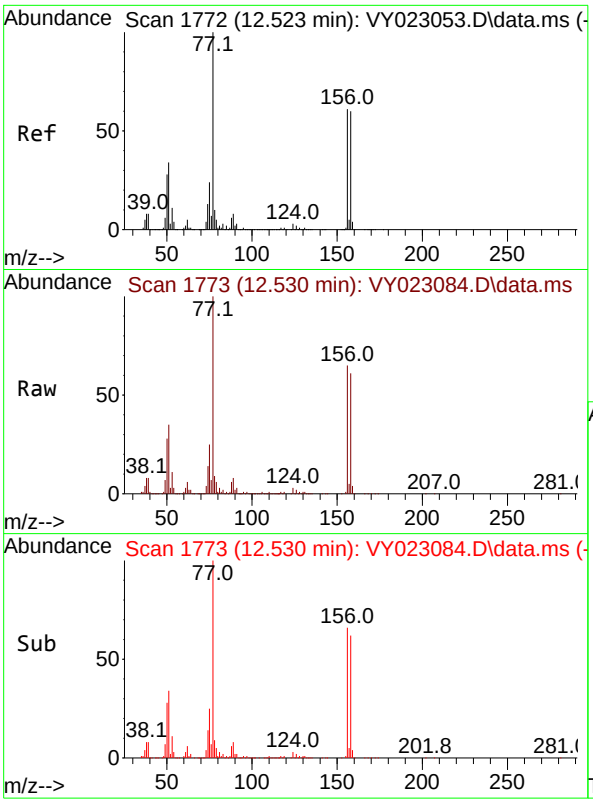


#76
1,2,3-Trichloropropane
Concen: 45.053 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 126115

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

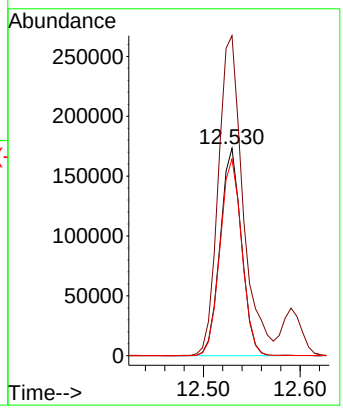




#77
Bromobenzene
Concen: 54.218 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:156 Resp: 26479

Ion	Ratio	Lower	Upper
156	100		
77	178.6	88.1	264.4
158	97.1	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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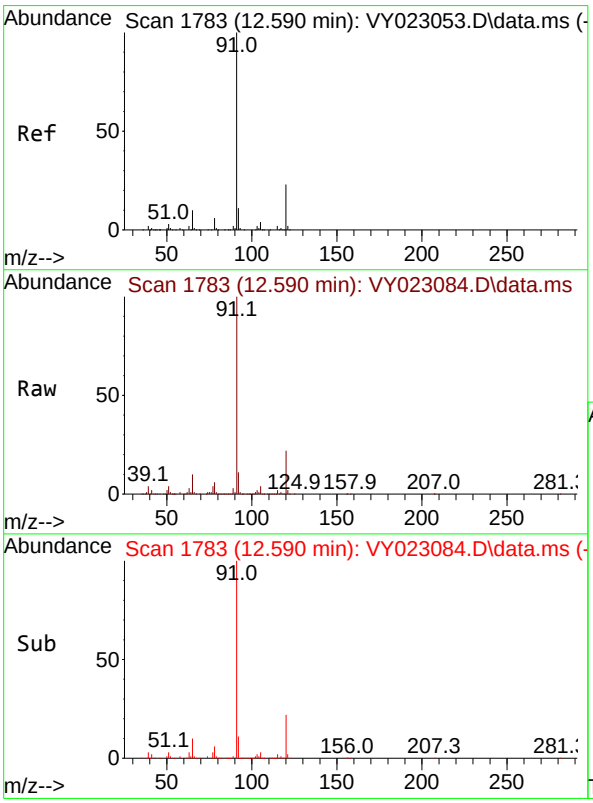
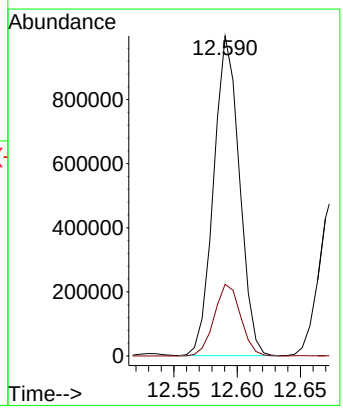
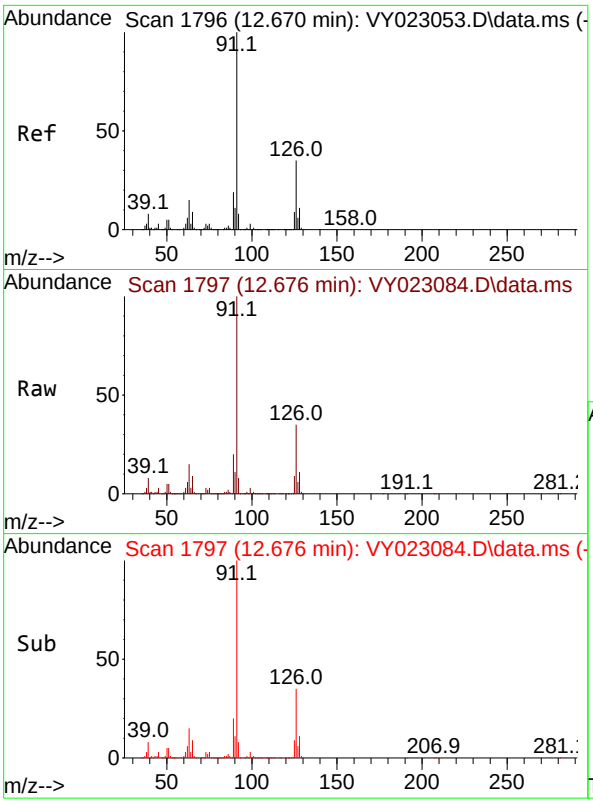


#78
n-propylbenzene
Concen: 57.928 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 1411858

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5

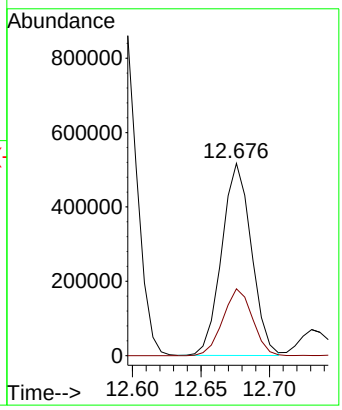




#79
2-Chlorotoluene
Concen: 55.767 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 77875

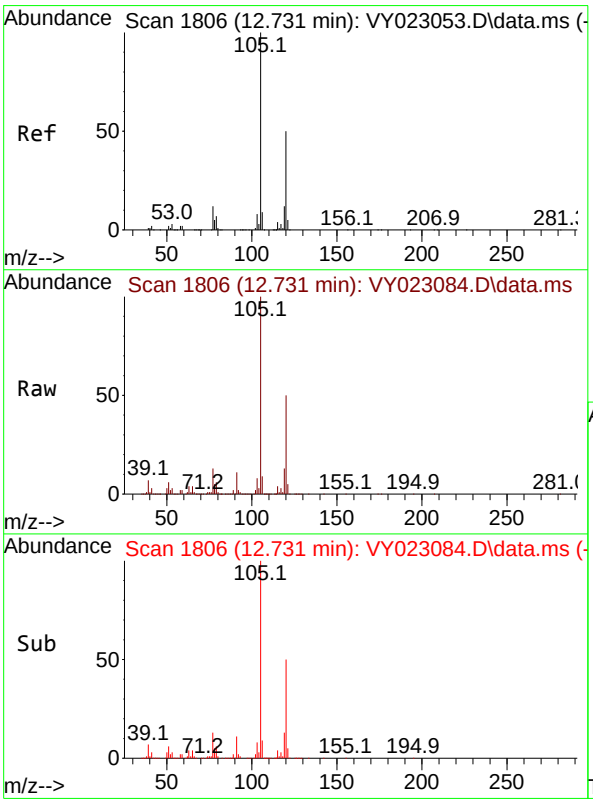
Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

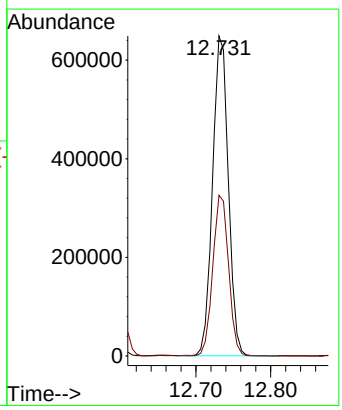
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

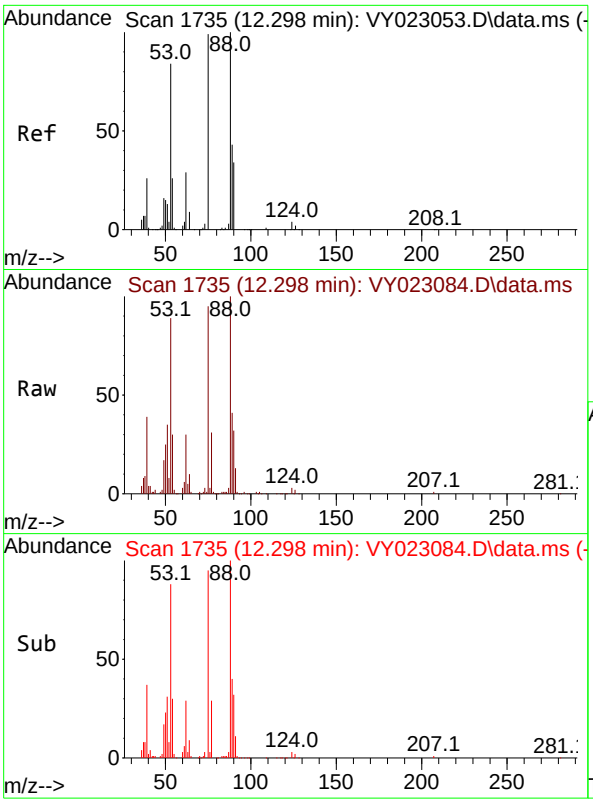


#80
1,3,5-Trimethylbenzene
Concen: 57.421 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 950021

Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.8	74.4

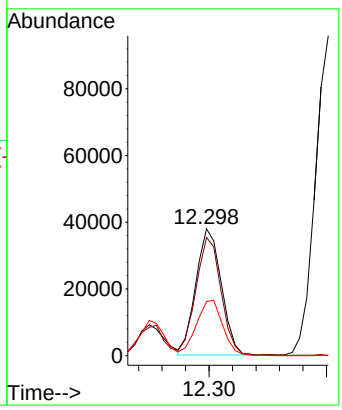




#81
trans-1,4-Dichloro-2-butene
Concen: 49.259 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 5696

Ion	Ratio	Lower	Upper
75	100		
53	92.9	70.8	106.2
89	45.6	38.1	57.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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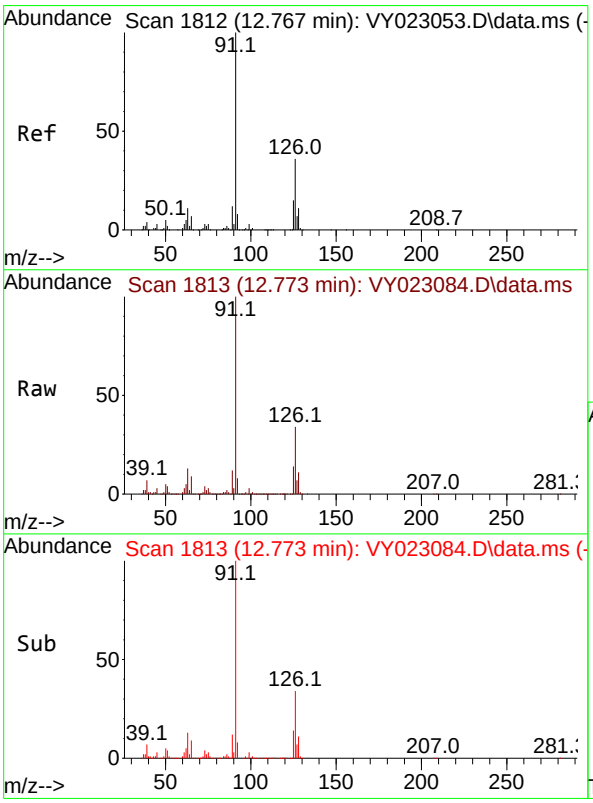
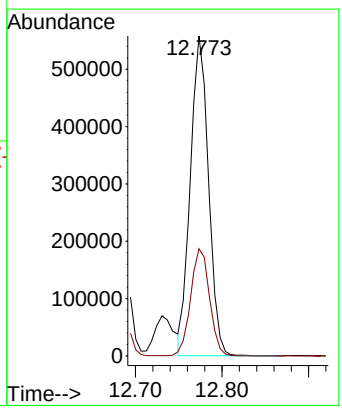
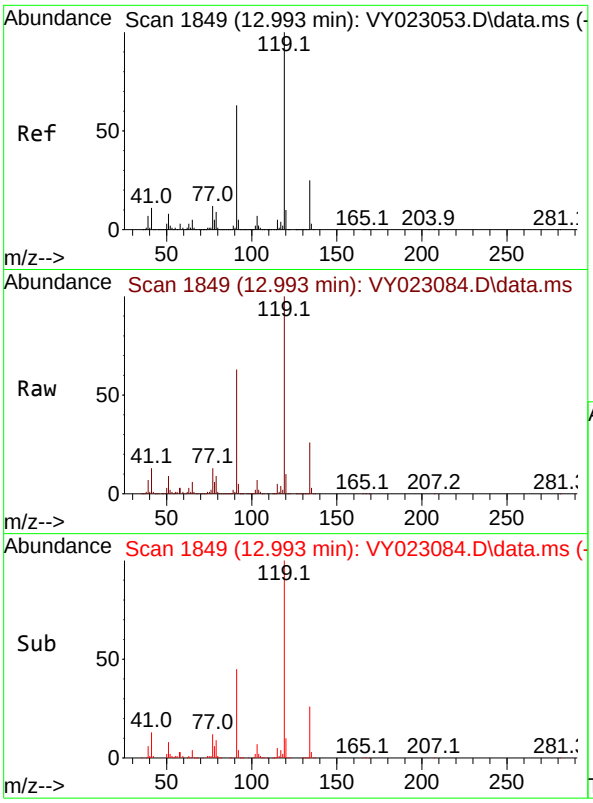


#82
4-Chlorotoluene
Concen: 56.188 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 813961

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.3	52.0





#83
tert-Butylbenzene
Concen: 55.552 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:119 Resp: 83009

Ion	Ratio	Lower	Upper
119	100		
91	64.3	31.6	94.8
134	26.6	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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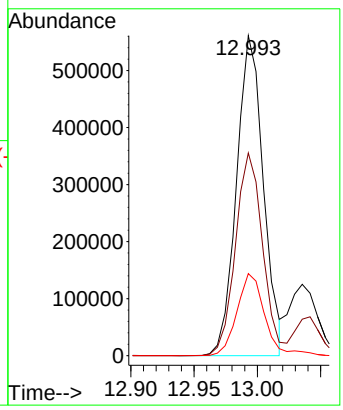
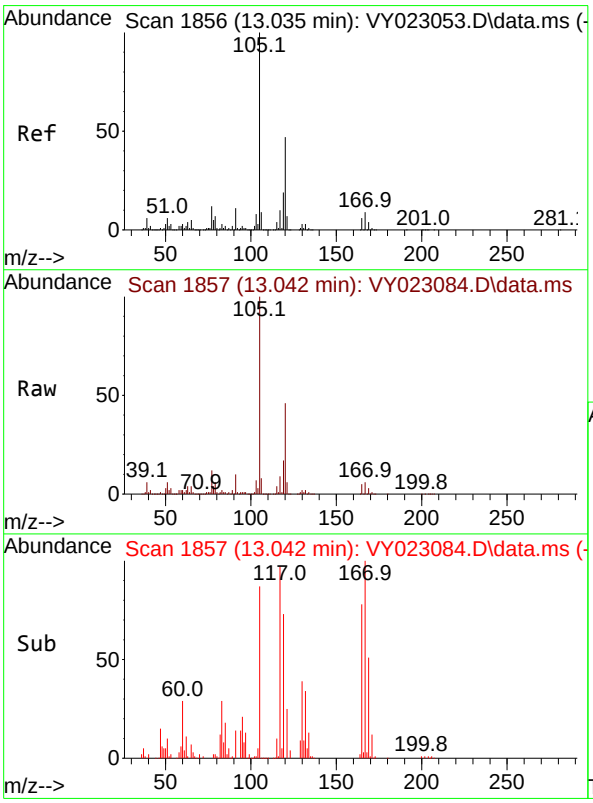
Supervised By :Mahesh Dadoda 08/19/2025

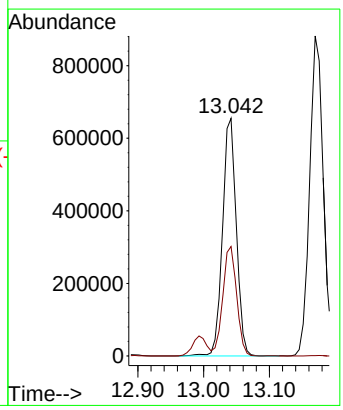


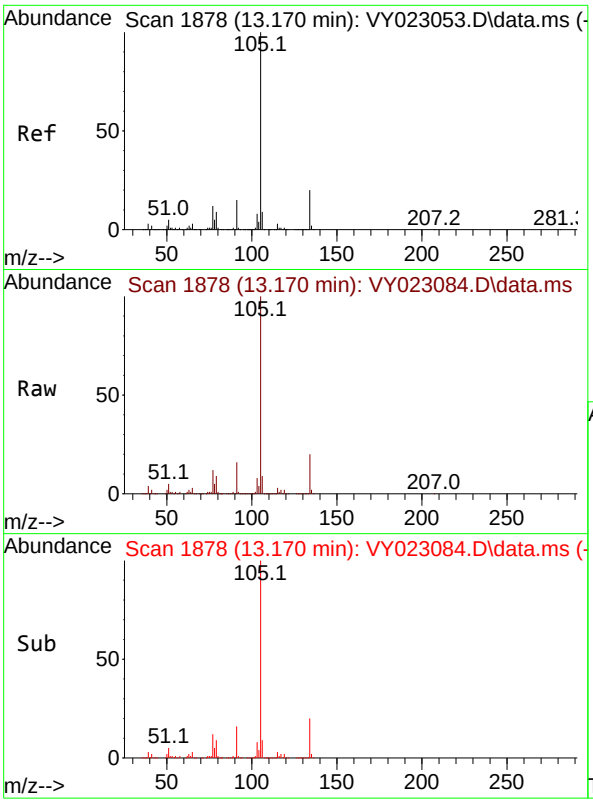


#84
1,2,4-Trimethylbenzene
Concen: 58.063 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 956285

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0





#85
sec-Butylbenzene
Concen: 57.500 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 126215

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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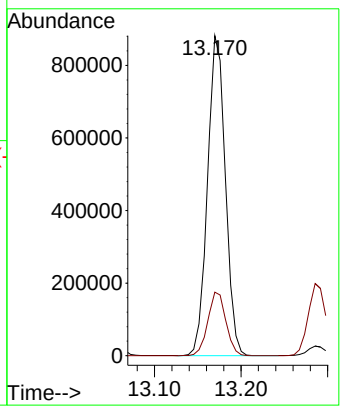
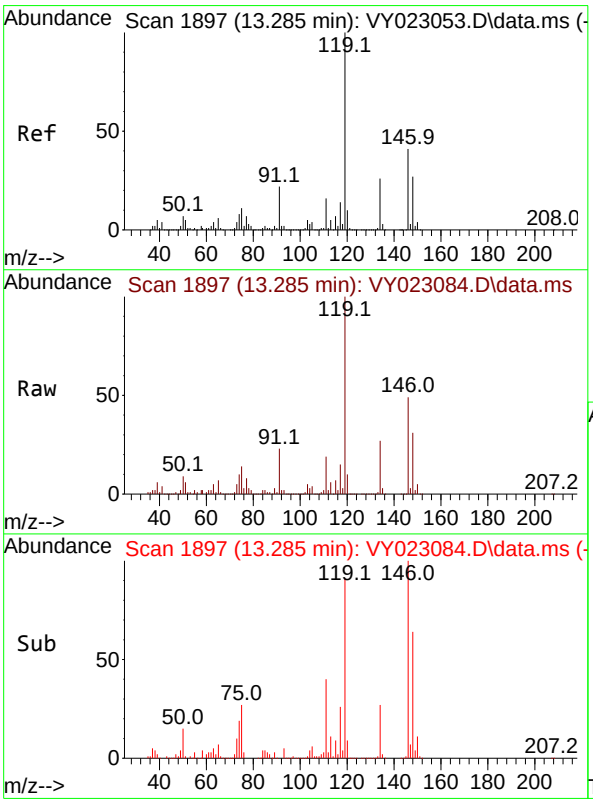
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

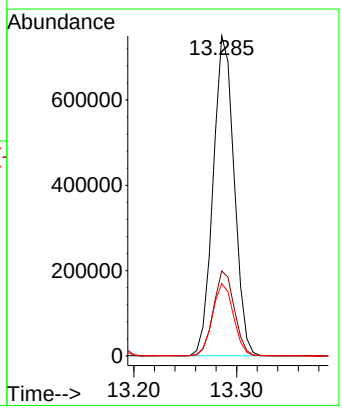


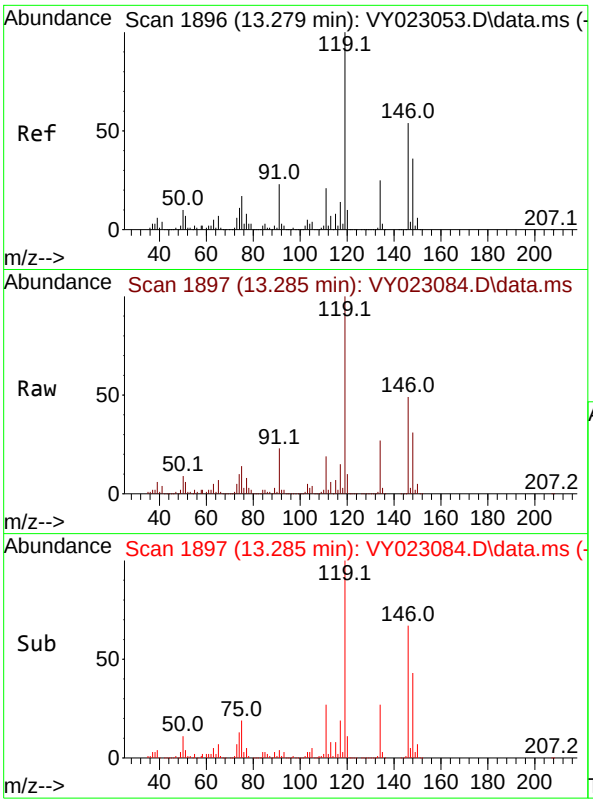


#86
p-Isopropyltoluene
Concen: 58.310 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:119 Resp: 1062415

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	22.6	11.3	33.8

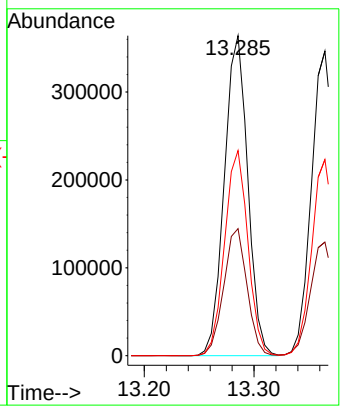




#87
1,3-Dichlorobenzene
Concen: 56.125 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 54054

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.7
148	63.8	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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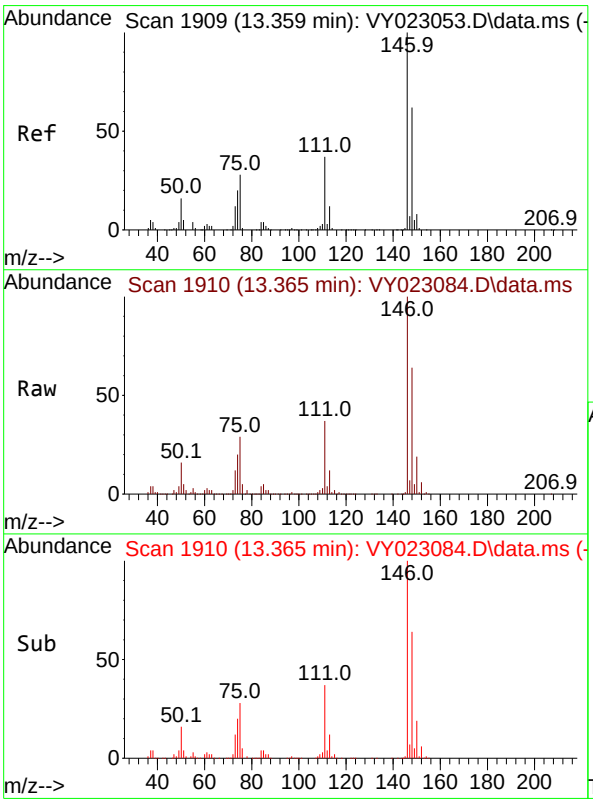
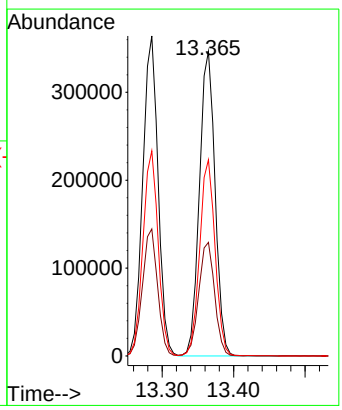
Supervised By :Mahesh Dadoda 08/19/2025

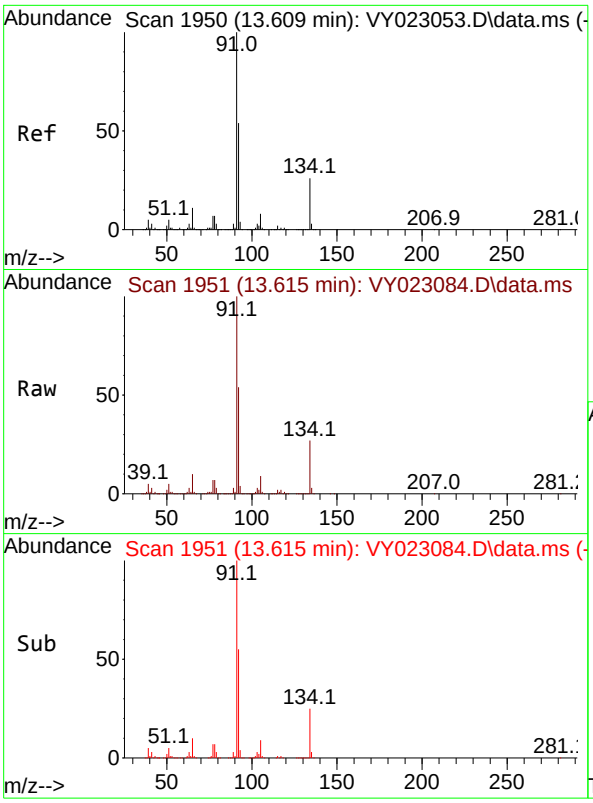


#88
1,4-Dichlorobenzene
Concen: 55.125 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 526660

Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.1	57.1
148	63.6	31.6	94.7

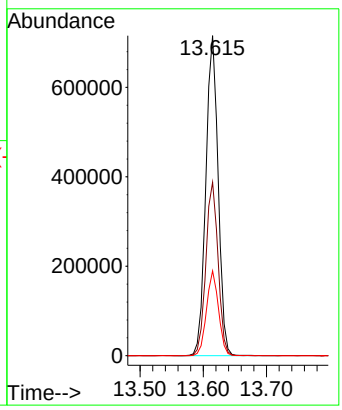




#89
n-Butylbenzene
Concen: 57.904 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 96897

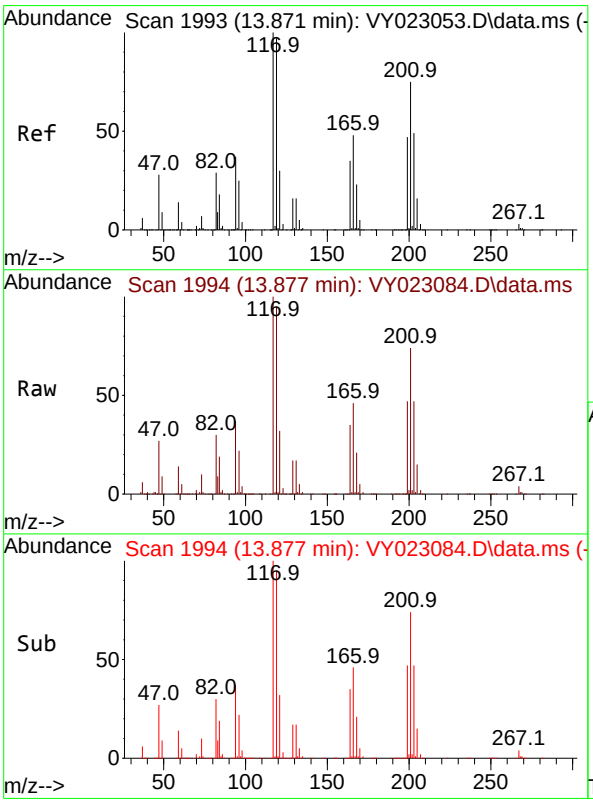
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.9	80.7
134	25.8	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

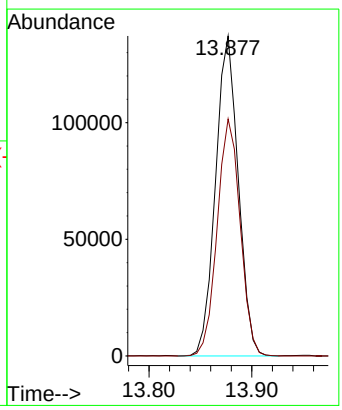
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

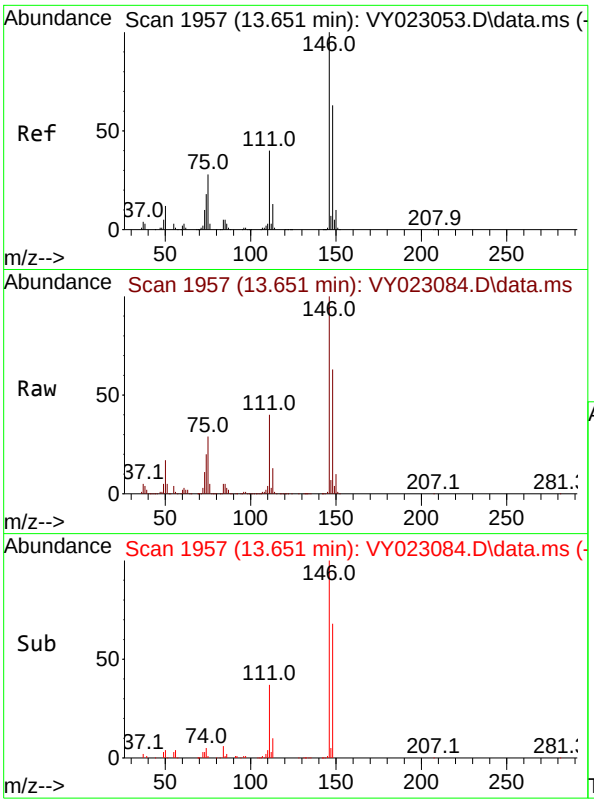


#90
Hexachloroethane
Concen: 56.482 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 210671

Ion	Ratio	Lower	Upper
117	100		
201	74.8	38.4	115.1

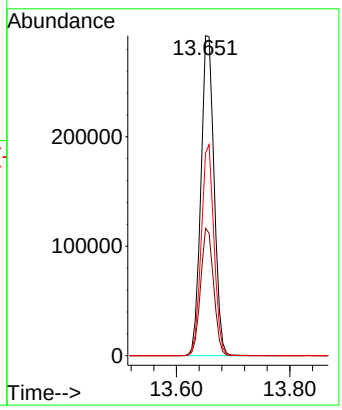




#91
1,2-Dichlorobenzene
Concen: 55.616 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 46976

Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.3	60.8
148	64.0	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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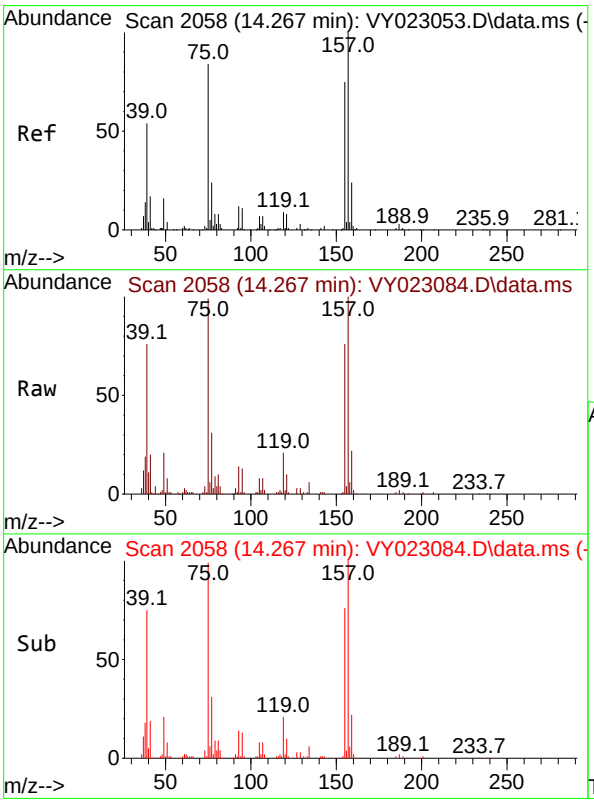
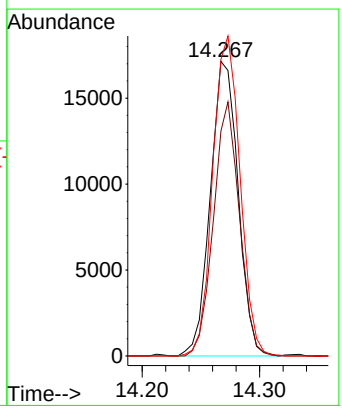
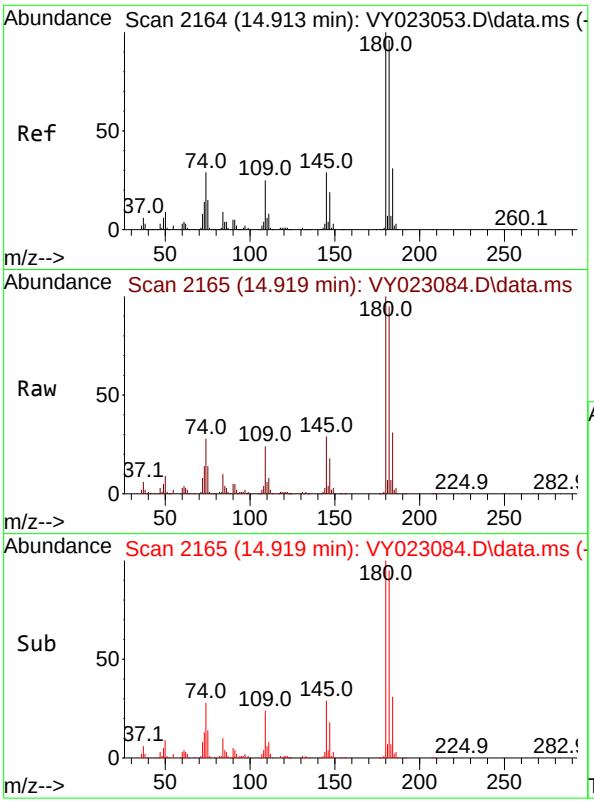


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.839 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 28212

Ion	Ratio	Lower	Upper
75	100		
155	80.2	43.9	131.6
157	106.5	57.2	171.6

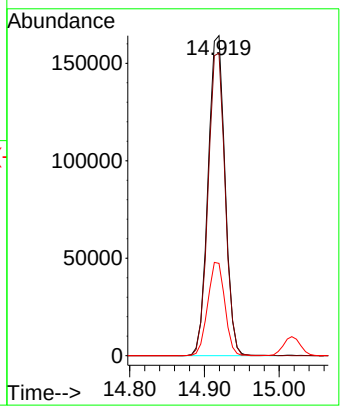




#93
1,2,4-Trichlorobenzene
Concen: 51.769 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:180 Resp: 25858

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.8	140.4
145	29.5	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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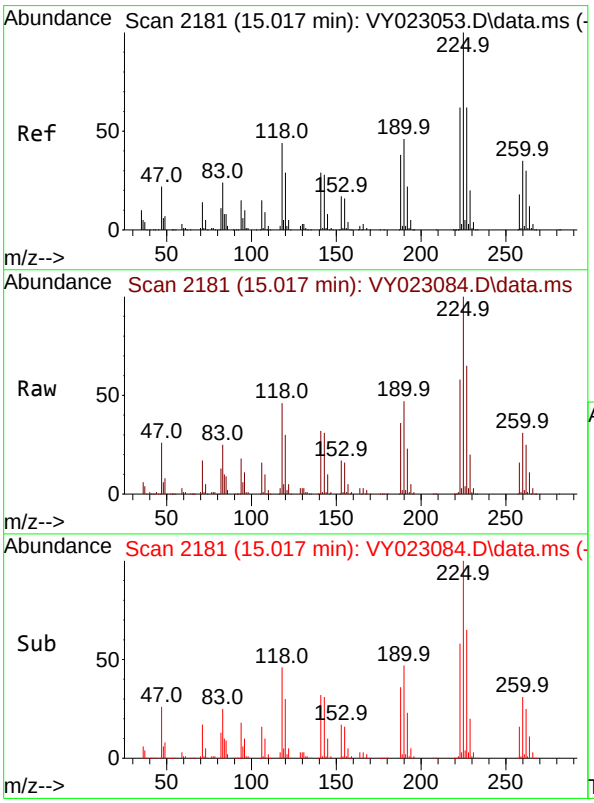
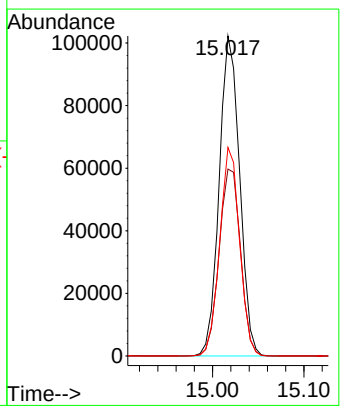
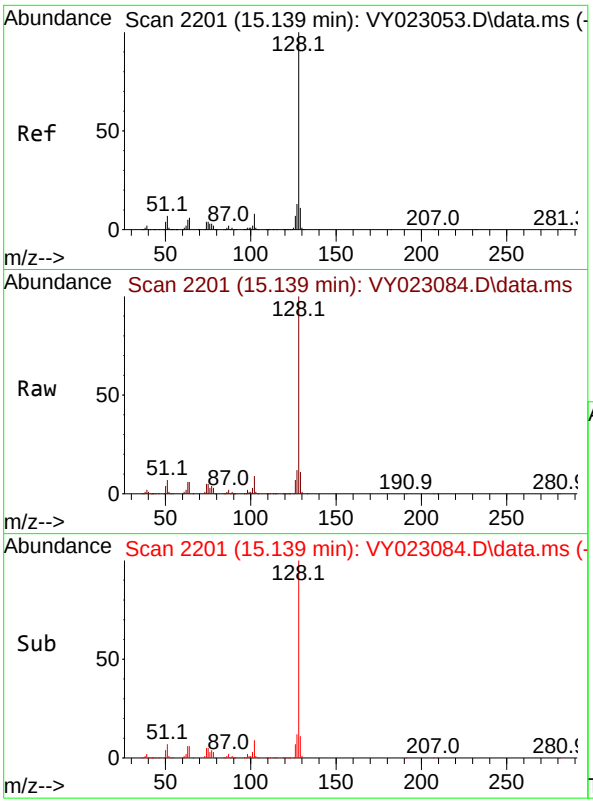


#94
Hexachlorobutadiene
Concen: 54.099 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:225 Resp: 158788

Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.3	93.8
227	63.5	31.5	94.5

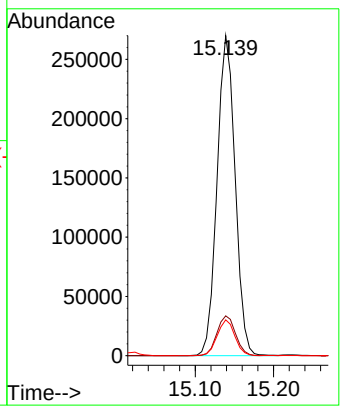




#95
Naphthalene
Concen: 50.929 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:128 Resp: 43377

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	11.0	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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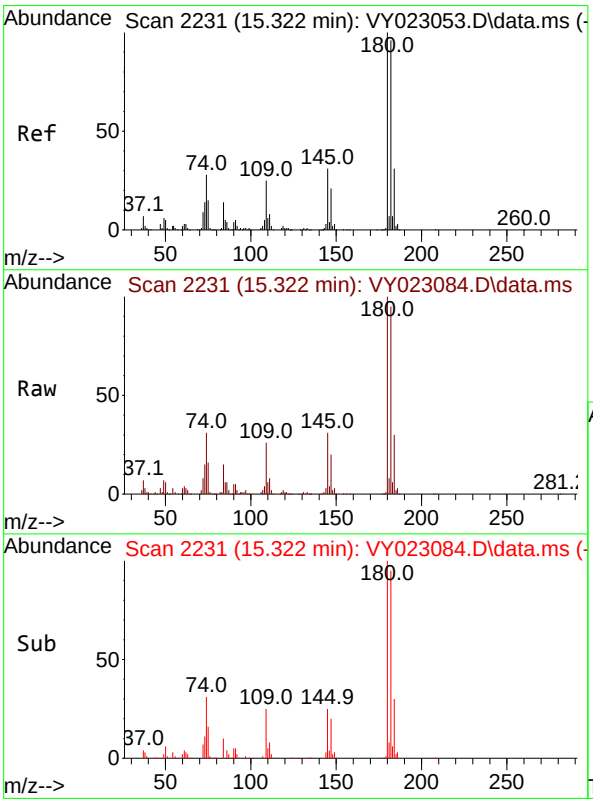
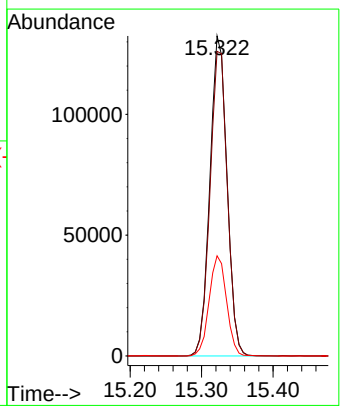
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.145 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:180 Resp: 220135

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.9	143.7
145	31.7	15.9	47.7



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Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	76	0.00
2	T	Dichlorodifluoromethane	0.408	0.368	9.8	80	0.00
3	P	Chloromethane	0.661	0.738	-11.6	93	0.00
4	C	Vinyl Chloride	0.817	0.946	-15.8#	94	0.00
5	T	Bromomethane	0.610	0.701	-14.9	99	0.00
6	T	Chloroethane	0.543	0.665	-22.5	98	0.00
7	T	Trichlorofluoromethane	0.994	1.067	-7.3	87	0.00
8	T	Diethyl Ether	0.263	0.264	-0.4	80	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.530	-8.2	87	0.00
10	T	Methyl Iodide	0.529	0.652	-23.3	91	0.00
11	T	Tert butyl alcohol	0.033	0.028	15.2	68	0.00
12	CM	1,1-Dichloroethene	0.482	0.512	-6.2#	84	0.00
13	T	Acrolein	0.048	0.035	27.1#	59	0.00
14	T	Allyl chloride	0.709	0.753	-6.2	84	0.00
15	T	Acrylonitrile	0.107	0.110	-2.8	79	0.00
16	T	Acetone	0.103	0.106	-2.9	78	0.00
17	T	Carbon Disulfide	1.571	1.688	-7.4	86	0.00
18	T	Methyl Acetate	0.307	0.311	-1.3	74	0.00
19	T	Methyl tert-butyl Ether	1.249	1.278	-2.3	79	0.00
20	T	Methylene Chloride	0.620	0.608	1.9	91	0.00
21	T	trans-1,2-Dichloroethene	0.541	0.599	-10.7	87	0.00
22	T	Diisopropyl ether	1.541	1.707	-10.8	86	0.00
23	T	Vinyl Acetate	0.852	0.905	-6.2	82	0.00
24	P	1,1-Dichloroethane	0.942	1.065	-13.1	88	0.00
25	T	2-Butanone	0.140	0.142	-1.4	76	0.00
26	T	2,2-Dichloropropane	0.813	0.898	-10.5	87	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.688	-9.9	86	0.00
28	T	Bromochloromethane	0.374	0.440	-17.6	92	0.00
29	T	Tetrahydrofuran	0.087	0.086	1.1	75	0.00
30	C	Chloroform	0.971	1.102	-13.5#	89	0.00
31	T	Cyclohexane	0.888	0.899	-1.2	84	0.00
32	T	1,1,1-Trichloroethane	0.862	0.962	-11.6	88	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.540	-13.2	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	76	0.00
35	S	Dibromofluoromethane	0.299	0.344	-15.1	89	0.00
36	T	1,1-Dichloropropene	0.445	0.501	-12.6	87	0.00
37	T	Ethyl Acetate	0.187	0.197	-5.3	79	0.00
38	T	Carbon Tetrachloride	0.483	0.543	-12.4	88	0.00
39	T	Methylcyclohexane	0.586	0.637	-8.7	85	0.00
40	TM	Benzene	1.370	1.568	-14.5	89	0.00
41	T	Methacrylonitrile	0.108	0.093	13.9	64	0.00
42	TM	1,2-Dichloroethane	0.356	0.398	-11.8	87	0.00
43	T	Isopropyl Acetate	0.378	0.383	-1.3	78	0.00
44	TM	Trichloroethene	0.354	0.397	-12.1	88	0.00
45	C	1,2-Dichloropropane	0.315	0.366	-16.2#	90	0.00
46	T	Dibromomethane	0.181	0.205	-13.3	87	0.00
47	T	Bromodichloromethane	0.466	0.532	-14.2	88	0.00
48	T	Methyl methacrylate	0.181	0.190	-5.0	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	78	0.00
50	S	Toluene-d8	1.169	1.352	-15.7	89	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.203	-4.1	77	0.00
52	CM	Toluene	0.870	1.000	-14.9#	88	0.00
53	T	t-1,3-Dichloropropene	0.422	0.465	-10.2	84	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.557	-11.6	85	0.00
55	T	1,1,2-Trichloroethane	0.242	0.267	-10.3	85	0.00
56	T	Ethyl methacrylate	0.310	0.330	-6.5	78	0.00
57	T	1,3-Dichloropropane	0.411	0.452	-10.0	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.164	-12.3	80	0.00
59	T	2-Hexanone	0.133	0.137	-3.0	76	0.00
60	T	Dibromochloromethane	0.320	0.358	-11.9	85	0.00
61	T	1,2-Dibromoethane	0.228	0.247	-8.3	83	0.00
62	S	4-Bromofluorobenzene	0.376	0.427	-13.6	87	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	77	0.00
64	T	Tetrachloroethene	0.446	0.495	-11.0	88	0.00
65	PM	Chlorobenzene	1.079	1.192	-10.5	87	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.407	-11.2	87	0.00
67	C	Ethyl Benzene	1.856	2.084	-12.3#	87	0.00
68	T	m/p-Xylenes	0.725	0.824	-13.7	89	0.00
69	T	o-Xylene	0.679	0.765	-12.7	86	0.00
70	T	Styrene	1.110	1.298	-16.9	89	0.00
71	P	Bromoform	0.214	0.221	-3.3	80	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.00
73	T	Isopropylbenzene	3.529	3.976	-12.7	87	0.00
74	T	N-amyl acetate	0.748	0.774	-3.5	77	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.622	-3.2	82	0.00
76	T	1,2,3-Trichloropropane	0.483	0.435	9.9	62	0.00
77	T	Bromobenzene	0.842	0.913	-8.4	85	0.00
78	T	n-propylbenzene	4.201	4.868	-15.9	89	0.00
79	T	2-Chlorotoluene	2.407	2.685	-11.5	87	0.00
80	T	1,3,5-Trimethylbenzene	2.852	3.275	-14.8	88	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.196	1.5	76	0.00
82	T	4-Chlorotoluene	2.497	2.806	-12.4	87	0.00
83	T	tert-Butylbenzene	2.576	2.862	-11.1	85	0.00
84	T	1,2,4-Trimethylbenzene	2.839	3.297	-16.1	89	0.00
85	T	sec-Butylbenzene	3.784	4.352	-15.0	89	0.00
86	T	p-Isopropyltoluene	3.141	3.663	-16.6	89	0.00
87	T	1,3-Dichlorobenzene	1.660	1.864	-12.3	89	0.00
88	T	1,4-Dichlorobenzene	1.647	1.816	-10.3	87	0.00
89	T	n-Butylbenzene	2.885	3.341	-15.8	88	0.00
90	T	Hexachloroethane	0.643	0.726	-12.9	89	0.00
91	T	1,2-Dichlorobenzene	1.456	1.620	-11.3	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.097	-3.2	79	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.892	-3.6	81	0.00
94	T	Hexachlorobutadiene	0.506	0.547	-8.1	86	0.00
95	T	Naphthalene	1.468	1.496	-1.9	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	0.759	-2.3	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	76	0.00
2	T	Dichlorodifluoromethane	50.000	45.046	9.9	80	0.00
3	P	Chloromethane	50.000	55.814	-11.6	93	0.00
4	C	Vinyl Chloride	50.000	57.916	-15.8#	94	0.00
5	T	Bromomethane	50.000	57.438	-14.9	99	0.00
6	T	Chloroethane	50.000	61.186	-22.4	98	0.00
7	T	Trichlorofluoromethane	50.000	53.672	-7.3	87	0.00
8	T	Diethyl Ether	50.000	50.120	-0.2	80	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	54.071	-8.1	87	0.00
10	T	Methyl Iodide	50.000	61.652	-23.3	91	0.00
11	T	Tert butyl alcohol	250.000	216.906	13.2	68	0.00
12	CM	1,1-Dichloroethene	50.000	53.125	-6.3#	84	0.00
13	T	Acrolein	250.000	180.505	27.8#	59	0.00
14	T	Allyl chloride	50.000	53.120	-6.2	84	0.00
15	T	Acrylonitrile	250.000	257.151	-2.9	79	0.00
16	T	Acetone	250.000	256.214	-2.5	78	0.00
17	T	Carbon Disulfide	50.000	53.714	-7.4	86	0.00
18	T	Methyl Acetate	50.000	50.608	-1.2	74	0.00
19	T	Methyl tert-butyl Ether	50.000	51.188	-2.4	79	0.00
20	T	Methylene Chloride	50.000	57.006	-14.0	91	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.278	-10.6	87	0.00
22	T	Diisopropyl ether	50.000	55.396	-10.8	86	0.00
23	T	Vinyl Acetate	250.000	265.520	-6.2	82	0.00
24	P	1,1-Dichloroethane	50.000	56.544	-13.1	88	0.00
25	T	2-Butanone	250.000	252.314	-0.9	76	0.00
26	T	2,2-Dichloropropane	50.000	55.247	-10.5	87	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.962	-9.9	86	0.00
28	T	Bromochloromethane	50.000	58.812	-17.6	92	0.00
29	T	Tetrahydrofuran	250.000	246.358	1.5	75	0.00
30	C	Chloroform	50.000	56.703	-13.4#	89	0.00
31	T	Cyclohexane	50.000	50.659	-1.3	84	0.00
32	T	1,1,1-Trichloroethane	50.000	55.782	-11.6	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	56.681	-13.4	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	76	0.00
35	S	Dibromofluoromethane	50.000	57.573	-15.1	89	0.00
36	T	1,1-Dichloropropene	50.000	56.356	-12.7	87	0.00
37	T	Ethyl Acetate	50.000	52.667	-5.3	79	0.00
38	T	Carbon Tetrachloride	50.000	56.181	-12.4	88	0.00
39	T	Methylcyclohexane	50.000	54.417	-8.8	85	0.00
40	TM	Benzene	50.000	57.200	-14.4	89	0.00
41	T	Methacrylonitrile	50.000	43.117	13.8	64	0.00
42	TM	1,2-Dichloroethane	50.000	55.883	-11.8	87	0.00
43	T	Isopropyl Acetate	50.000	50.705	-1.4	78	0.00
44	TM	Trichloroethene	50.000	56.001	-12.0	88	0.00
45	C	1,2-Dichloropropane	50.000	58.028	-16.1#	90	0.00
46	T	Dibromomethane	50.000	56.649	-13.3	87	0.00
47	T	Bromodichloromethane	50.000	57.122	-14.2	88	0.00
48	T	Methyl methacrylate	50.000	52.585	-5.2	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	1033.218	-3.3	78	0.00
50	S	Toluene-d8	50.000	57.835	-15.7	89	0.00
51	T	4-Methyl-2-Pentanone	250.000	260.657	-4.3	77	0.00
52	CM	Toluene	50.000	57.441	-14.9#	88	0.00
53	T	t-1,3-Dichloropropene	50.000	55.165	-10.3	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.890	-11.8	85	0.00
55	T	1,1,2-Trichloroethane	50.000	55.184	-10.4	85	0.00
56	T	Ethyl methacrylate	50.000	53.193	-6.4	78	0.00
57	T	1,3-Dichloropropane	50.000	55.040	-10.1	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.099	-12.0	80	0.00
59	T	2-Hexanone	250.000	257.924	-3.2	76	0.00
60	T	Dibromochloromethane	50.000	55.947	-11.9	85	0.00
61	T	1,2-Dibromoethane	50.000	54.265	-8.5	83	0.00
62	S	4-Bromofluorobenzene	50.000	56.822	-13.6	87	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	77	0.00
64	T	Tetrachloroethene	50.000	55.420	-10.8	88	0.00
65	PM	Chlorobenzene	50.000	55.261	-10.5	87	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.623	-11.2	87	0.00
67	C	Ethyl Benzene	50.000	56.146	-12.3#	87	0.00
68	T	m/p-Xylenes	100.000	113.678	-13.7	89	0.00
69	T	o-Xylene	50.000	56.368	-12.7	86	0.00
70	T	Styrene	50.000	58.442	-16.9	89	0.00
71	P	Bromoform	50.000	51.645	-3.3	80	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	77	0.00
73	T	Isopropylbenzene	50.000	56.330	-12.7	87	0.00
74	T	N-amyl acetate	50.000	51.690	-3.4	77	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.630	-3.3	82	0.00
76	T	1,2,3-Trichloropropane	50.000	45.053	9.9	62	0.00
77	T	Bromobenzene	50.000	54.218	-8.4	85	0.00
78	T	n-propylbenzene	50.000	57.928	-15.9	89	0.00
79	T	2-Chlorotoluene	50.000	55.767	-11.5	87	0.00
80	T	1,3,5-Trimethylbenzene	50.000	57.421	-14.8	88	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.259	1.5	76	0.00
82	T	4-Chlorotoluene	50.000	56.188	-12.4	87	0.00
83	T	tert-Butylbenzene	50.000	55.552	-11.1	85	0.00
84	T	1,2,4-Trimethylbenzene	50.000	58.063	-16.1	89	0.00
85	T	sec-Butylbenzene	50.000	57.500	-15.0	89	0.00
86	T	p-Isopropyltoluene	50.000	58.310	-16.6	89	0.00
87	T	1,3-Dichlorobenzene	50.000	56.125	-12.3	89	0.00
88	T	1,4-Dichlorobenzene	50.000	55.125	-10.3	87	0.00
89	T	n-Butylbenzene	50.000	57.904	-15.8	88	0.00
90	T	Hexachloroethane	50.000	56.482	-13.0	89	0.00
91	T	1,2-Dichlorobenzene	50.000	55.616	-11.2	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.839	-3.7	79	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.769	-3.5	81	0.00
94	T	Hexachlorobutadiene	50.000	54.099	-8.2	86	0.00
95	T	Naphthalene	50.000	50.929	-1.9	77	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	51.145	-2.3	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2819
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/14/2025 20:38
Lab File ID: VY023109.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	0.306		-25	50
Chloromethane	0.661	0.669	0.1	1.21	50
Vinyl Chloride	0.817	0.871		6.61	50
Bromomethane	0.610	0.684		12.13	50
Chloroethane	0.543	0.616		13.44	50
Trichlorofluoromethane	0.994	0.944		-5.03	50
1,1,2-Trichlorotrifluoroethane	0.490	0.445		-9.18	50
1,1-Dichloroethene	0.482	0.449		-6.85	50
Acetone	0.103	0.075		-27.18	50
Carbon Disulfide	1.571	1.453		-7.51	50
Methyl tert-butyl Ether	1.249	1.233		-1.28	50
Methyl Acetate	0.307	0.317		3.26	50
Methylene Chloride	0.620	0.545		-12.1	50
trans-1,2-Dichloroethene	0.541	0.528		-2.4	50
1,1-Dichloroethane	0.942	0.954	0.1	1.27	50
Cyclohexane	0.888	0.781		-12.05	50
2-Butanone	0.140	0.124		-11.43	50
Carbon Tetrachloride	0.483	0.455		-5.8	50
cis-1,2-Dichloroethene	0.626	0.631		0.8	50
Bromochloromethane	0.374	0.376		0.54	50
Chloroform	0.971	1.010		4.02	50
1,1,1-Trichloroethane	0.862	0.864		0.23	50
Methylcyclohexane	0.586	0.539		-8.02	50
Benzene	1.370	1.362		-0.58	50
1,2-Dichloroethane	0.356	0.355		-0.28	50
Trichloroethene	0.354	0.336		-5.09	50
1,2-Dichloropropane	0.315	0.317		0.63	50
Bromodichloromethane	0.466	0.478		2.58	50
4-Methyl-2-Pentanone	0.195	0.187		-4.1	50
Toluene	0.870	0.879		1.03	50
t-1,3-Dichloropropene	0.422	0.405		-4.03	50
cis-1,3-Dichloropropene	0.499	0.481		-3.61	50
1,1,2-Trichloroethane	0.242	0.238		-1.65	50
2-Hexanone	0.133	0.124		-6.77	50
Dibromochloromethane	0.320	0.319		-0.31	50
1,2-Dibromoethane	0.228	0.223		-2.19	50
Tetrachloroethene	0.446	0.421		-5.61	50
Chlorobenzene	1.079	1.043	0.3	-3.34	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
Instrument ID:	MSVOA_Y	Calibration Date/Time:	08/14/2025 20:38
Lab File ID:	VY023109.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	1.811		-2.42	50
m/p-Xylenes	0.725	0.724		-0.14	50
o-Xylene	0.679	0.686		1.03	50
Styrene	1.110	1.150		3.6	50
Bromoform	0.214	0.202	0.1	-5.61	50
Isopropylbenzene	3.529	3.313		-6.12	50
1,1,2,2-Tetrachloroethane	0.603	0.552	0.3	-8.46	50
1,3-Dichlorobenzene	1.660	1.592		-4.1	50
1,4-Dichlorobenzene	1.647	1.544		-6.25	50
1,2-Dichlorobenzene	1.456	1.373		-5.7	50
1,2-Dibromo-3-Chloropropane	0.094	0.085		-9.57	50
1,2,4-Trichlorobenzene	0.861	0.771		-10.45	50
1,2,3-Trichlorobenzene	0.742	0.666		-10.24	50
1,2-Dichloroethane-d4	0.477	0.514		7.76	50
Dibromofluoromethane	0.299	0.303		1.34	50
Toluene-d8	1.169	1.191		1.88	50
4-Bromofluorobenzene	0.376	0.388		3.19	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\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 01:32:33 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	416366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	692312	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	629047	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	327747	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	213894	53.901	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.800%			
35) Dibromofluoromethane	7.634	113	209862	50.660	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.320%			
50) Toluene-d8	10.103	98	824760	50.964	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.920%			
62) 4-Bromofluorobenzene	12.402	95	268864	51.660	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	127230	37.436	ug/l	98
3) Chloromethane	2.068	50	278602	50.612	ug/l	100
4) Vinyl Chloride	2.202	62	362671	53.299	ug/l	100
5) Bromomethane	2.592	94	284864	56.056	ug/l	100
6) Chloroethane	2.733	64	256493	56.698	ug/l	99
7) Trichlorofluoromethane	3.050	101	393227	47.526	ug/l	98
8) Diethyl Ether	3.458	74	102502	46.826	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	185323	45.401	ug/l	99
10) Methyl Iodide	4.001	142	230343	52.294	ug/l	98
11) Tert butyl alcohol	4.866	59	59656	219.404	ug/l	99
12) 1,1-Dichloroethene	3.787	96	186960	46.597	ug/l	97
13) Acrolein	3.653	56	59794	150.160	ug/l	99
14) Allyl chloride	4.385	41	270891	45.884	ug/l	97
15) Acrylonitrile	5.055	53	214746	241.303	ug/l	99
16) Acetone	3.873	43	156746	182.326	ug/l	98
17) Carbon Disulfide	4.104	76	605160	46.257	ug/l	99
18) Methyl Acetate	4.385	43	132078	51.627	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	513333	49.373	ug/l	100
20) Methylene Chloride	4.616	84	226871	50.830	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	219760	48.739	ug/l	100
22) Diisopropyl ether	6.019	45	647978	50.509	ug/l	98
23) Vinyl Acetate	5.958	43	1688350	238.003	ug/l	99
24) 1,1-Dichloroethane	5.915	63	397112	50.629	ug/l	99
25) 2-Butanone	6.896	43	257717	220.416	ug/l	98
26) 2,2-Dichloropropane	6.884	77	282620	41.758	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	262868	50.429	ug/l	99
28) Bromochloromethane	7.244	49	156731	50.366	ug/l	99
29) Tetrahydrofuran	7.262	42	170771	235.626	ug/l	99
30) Chloroform	7.421	83	420476	51.980	ug/l	96
31) Cyclohexane	7.701	56	325108	43.985	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	359591	50.099	ug/l	98
36) 1,1-Dichloropropene	7.835	75	290479	47.183	ug/l	99
37) Ethyl Acetate	6.982	43	118629	45.871	ug/l	98
38) Carbon Tetrachloride	7.817	117	315347	47.160	ug/l	97
39) Methylcyclohexane	9.109	83	372844	45.989	ug/l	98
40) Benzene	8.079	78	942603	49.676	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 01:32:33 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	63879	42.799	ug/l	93
42) 1,2-Dichloroethane	8.158	62	245917	49.831	ug/l	99
43) Isopropyl Acetate	8.195	43	245206	46.911	ug/l	100
44) Trichloroethene	8.866	130	232571	47.429	ug/l	99
45) 1,2-Dichloropropane	9.140	63	219128	50.190	ug/l	98
46) Dibromomethane	9.231	93	125840	50.217	ug/l	97
47) Bromodichloromethane	9.420	83	330836	51.308	ug/l	98
48) Methyl methacrylate	9.219	41	116562	46.602	ug/l	95
49) 1,4-Dioxane	9.225	88	28202	959.813	ug/l	93
51) 4-Methyl-2-Pentanone	9.993	43	648196	240.407	ug/l	100
52) Toluene	10.170	92	608495	50.491	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	280629	48.061	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	333217	48.260	ug/l	98
55) 1,1,2-Trichloroethane	10.567	97	164684	49.113	ug/l	97
56) Ethyl methacrylate	10.438	69	211730	49.346	ug/l	98
57) 1,3-Dichloropropane	10.713	76	280123	49.259	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	522597	258.207	ug/l	100
59) 2-Hexanone	10.756	43	429008	233.670	ug/l	99
60) Dibromochloromethane	10.908	129	220549	49.847	ug/l	99
61) 1,2-Dibromoethane	11.012	107	154512	49.026	ug/l	100
64) Tetrachloroethene	10.646	164	264997	47.178	ug/l	98
65) Chlorobenzene	11.438	112	655836	48.335	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.511	131	226496	49.184	ug/l	99
67) Ethyl Benzene	11.518	91	1138907	48.775	ug/l	99
68) m/p-Xylenes	11.627	106	910415	99.829	ug/l	99
69) o-Xylene	11.950	106	431382	50.504	ug/l	99
70) Styrene	11.963	104	723332	51.783	ug/l	99
71) Bromoform	12.127	173	127183	47.255	ug/l	98
73) Isopropylbenzene	12.249	105	1085768	46.938	ug/l	100
74) N-amyl acetate	12.066	43	218818	44.606	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	180905	45.802	ug/l	99
76) 1,2,3-Trichloropropane	12.548	75	172472m	54.526	ug/l	
77) Bromobenzene	12.530	156	254766	46.165	ug/l	98
78) n-propylbenzene	12.591	91	1321560	47.987	ug/l	100
79) 2-Chlorotoluene	12.676	91	749983	47.529	ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	901239	48.207	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	51968	39.770	ug/l	94
82) 4-Chlorotoluene	12.773	91	794254	48.521	ug/l	99
83) tert-Butylbenzene	12.993	119	794810	47.072	ug/l	99
84) 1,2,4-Trimethylbenzene	13.036	105	915823	49.211	ug/l	100
85) sec-Butylbenzene	13.170	105	1185899	47.812	ug/l	100
86) p-Isopropyltoluene	13.286	119	997638	48.457	ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	521768	47.944	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	506066	46.877	ug/l	100
89) n-Butylbenzene	13.615	91	922027	48.761	ug/l	98
90) Hexachloroethane	13.877	117	202066	47.944	ug/l	97
91) 1,2-Dichlorobenzene	13.651	146	449904	47.139	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	27986	45.509	ug/l	94
93) 1,2,4-Trichlorobenzene	14.913	180	252540	44.744	ug/l	98
94) Hexachlorobutadiene	15.017	225	143621	43.304	ug/l	99
95) Naphthalene	15.139	128	443360	46.067	ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	218352	44.896	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 01:32:33 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

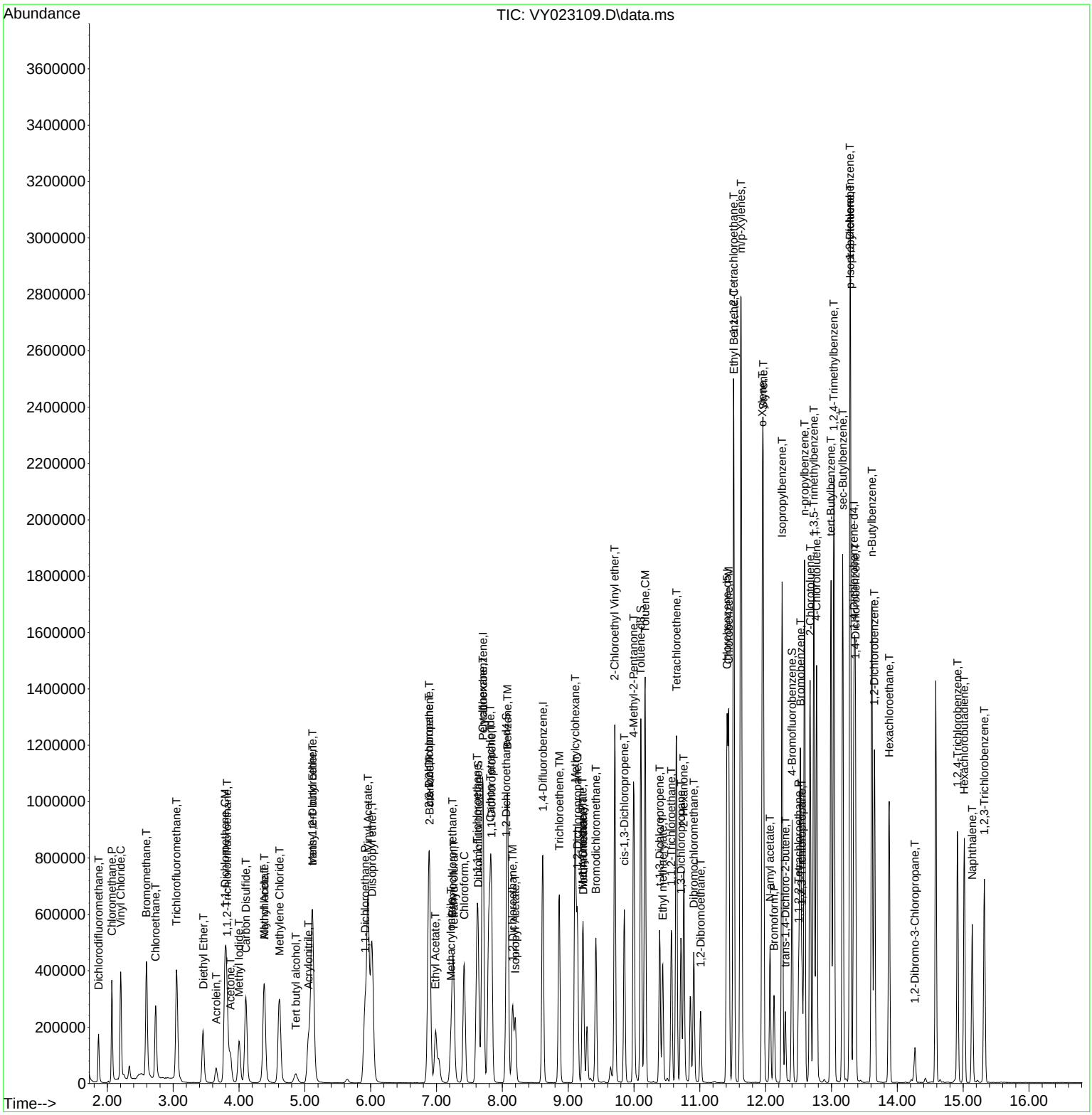
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

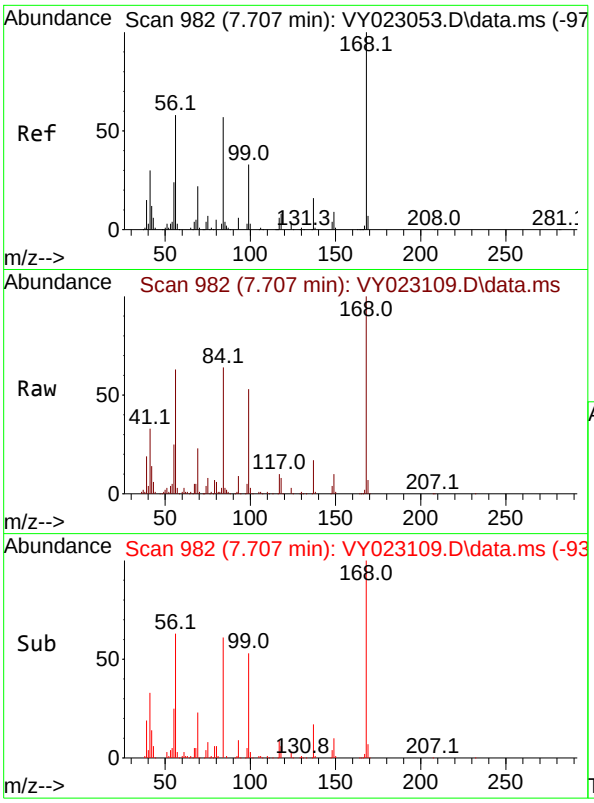
Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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

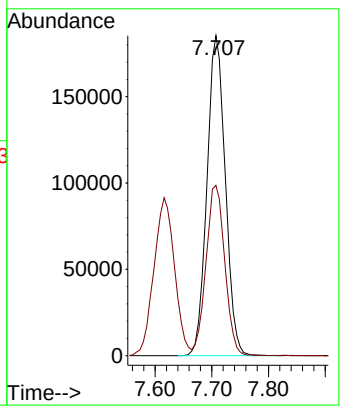




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:168 Resp: 41636

Ion	Ratio	Lower	Upper
168	100		
99	53.2	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
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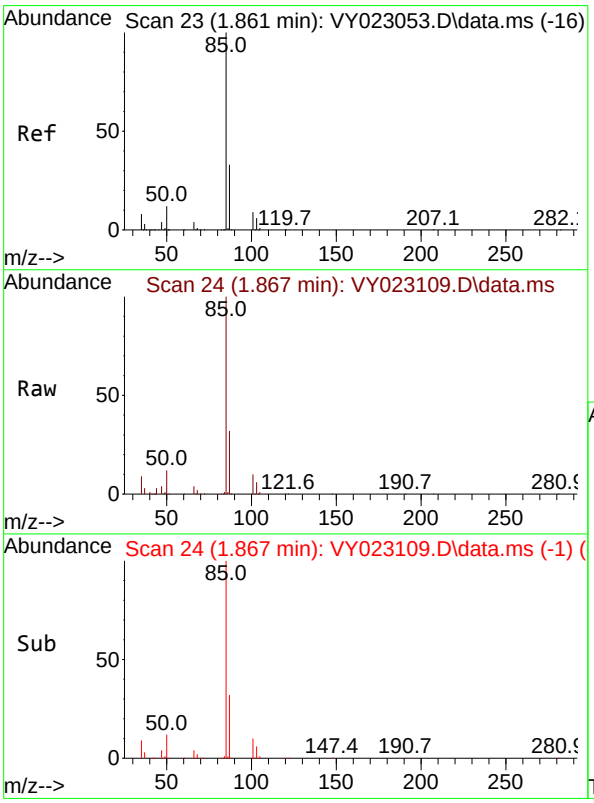
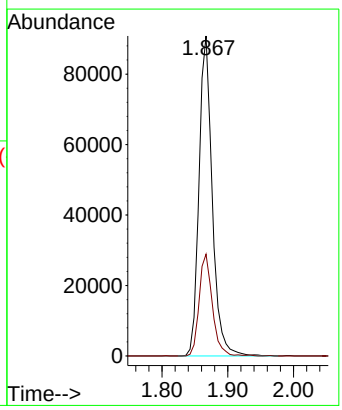
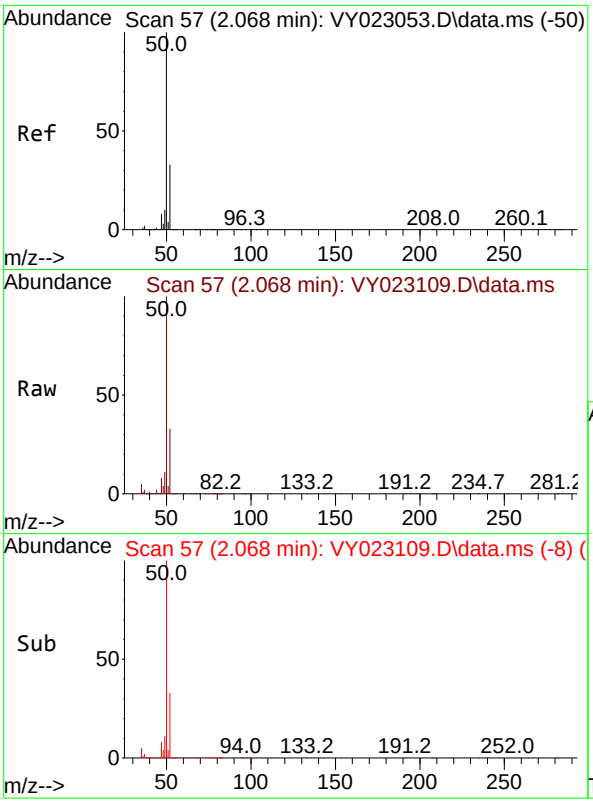


#2
Dichlorodifluoromethane
Concen: 37.436 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 85 Resp: 127230

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.6	49.8





#3
Chloromethane
Concen: 50.612 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

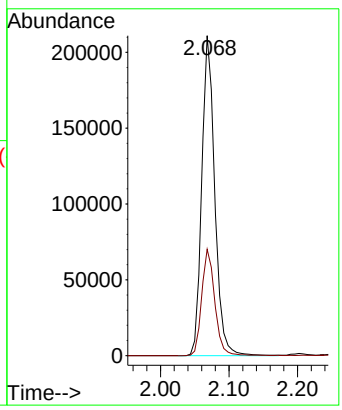
Tgt Ion: 50 Resp: 27860

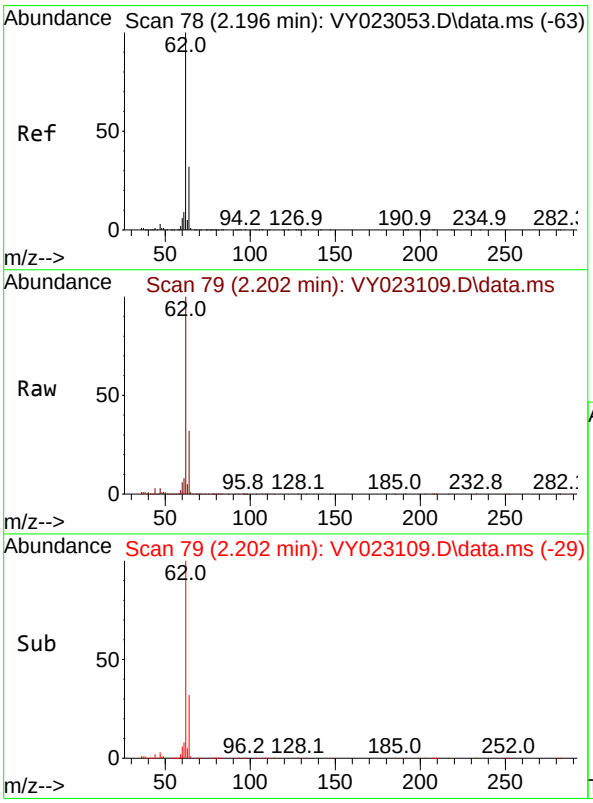
Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.7	40.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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

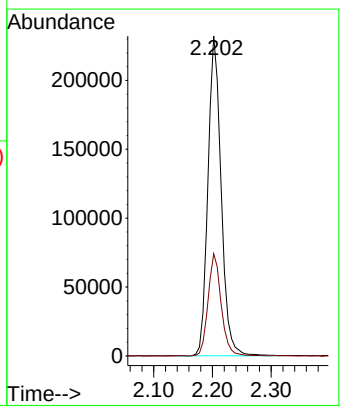


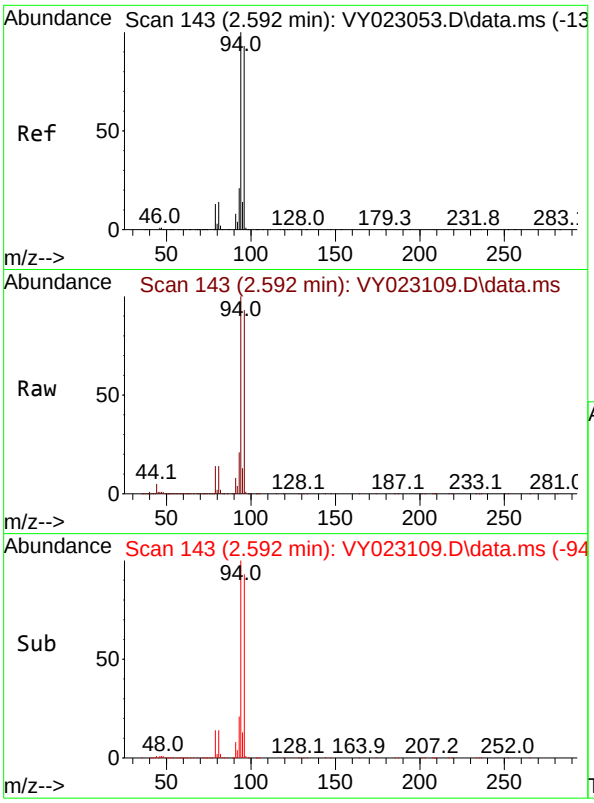


#4
Vinyl Chloride
Concen: 53.299 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 362671

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.4	38.0





#5
Bromomethane
Concen: 56.056 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 94 Resp: 28486

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	112.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
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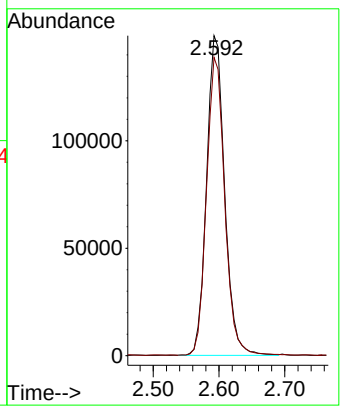
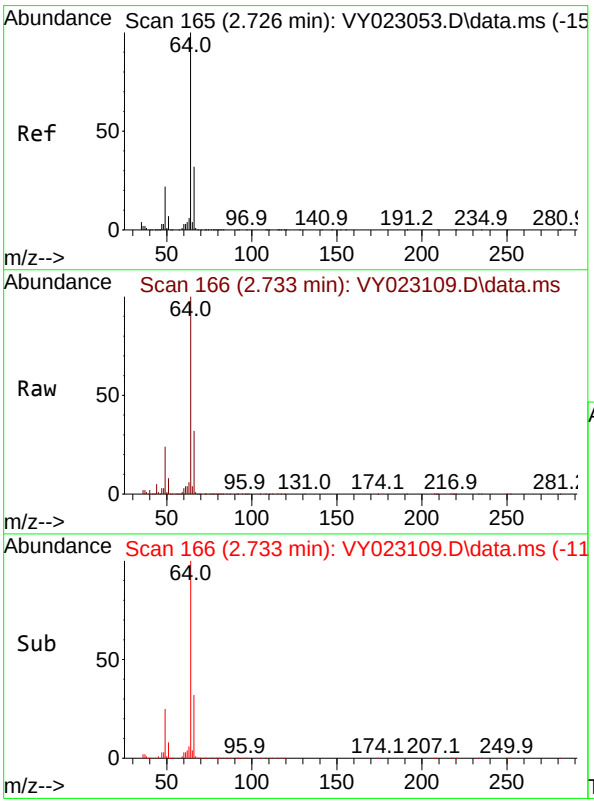
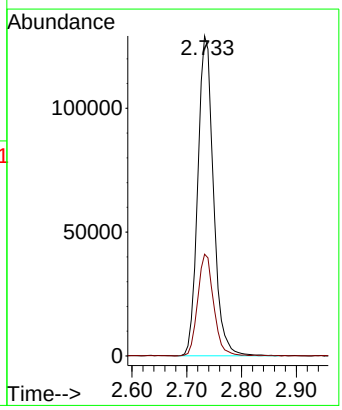


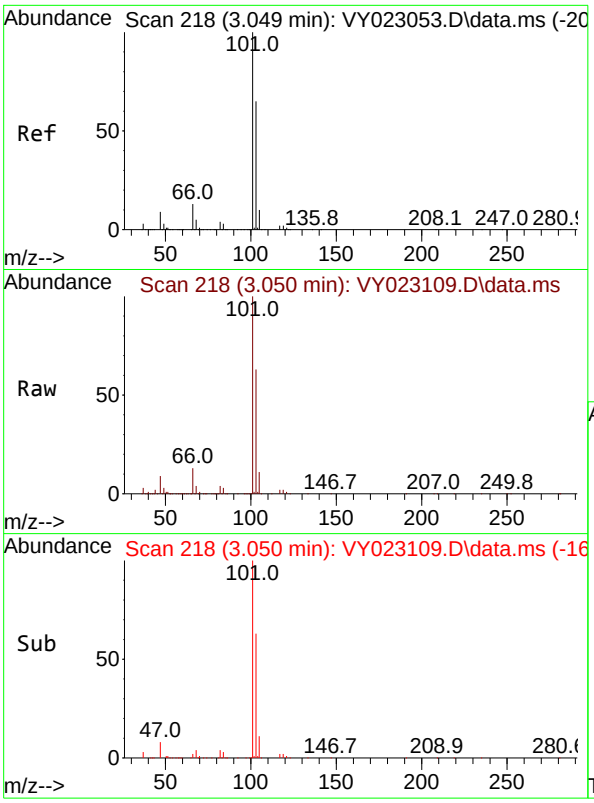


#6
Chloroethane
Concen: 56.698 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 64 Resp: 256493

Ion	Ratio	Lower	Upper
64	100		
66	31.8	25.8	38.6

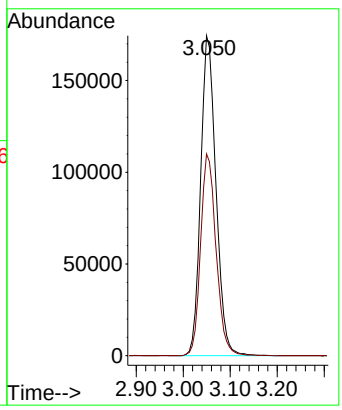




#7
Trichlorofluoromethane
Concen: 47.526 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:101 Resp: 39322

Ion	Ratio	Lower	Upper
101	100		
103	63.0	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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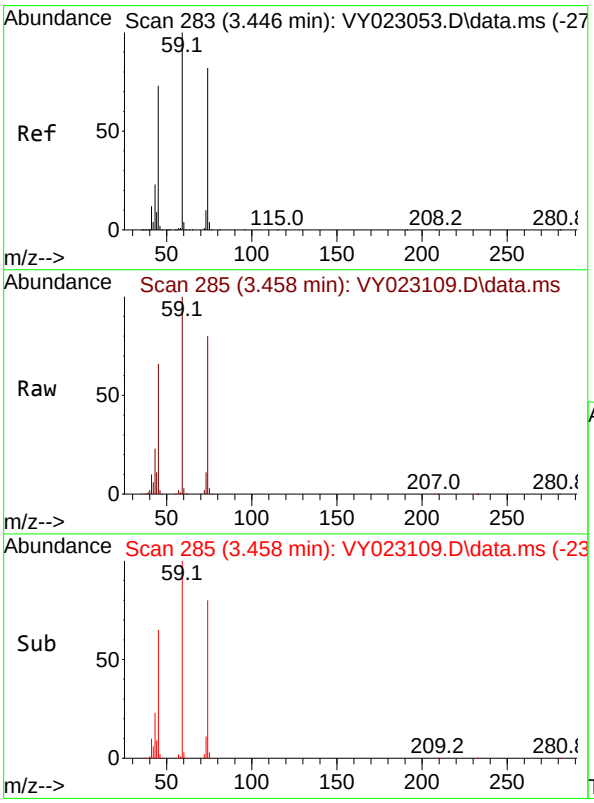
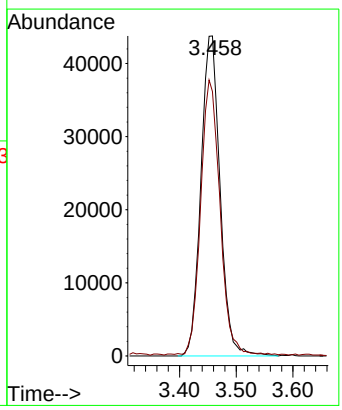
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

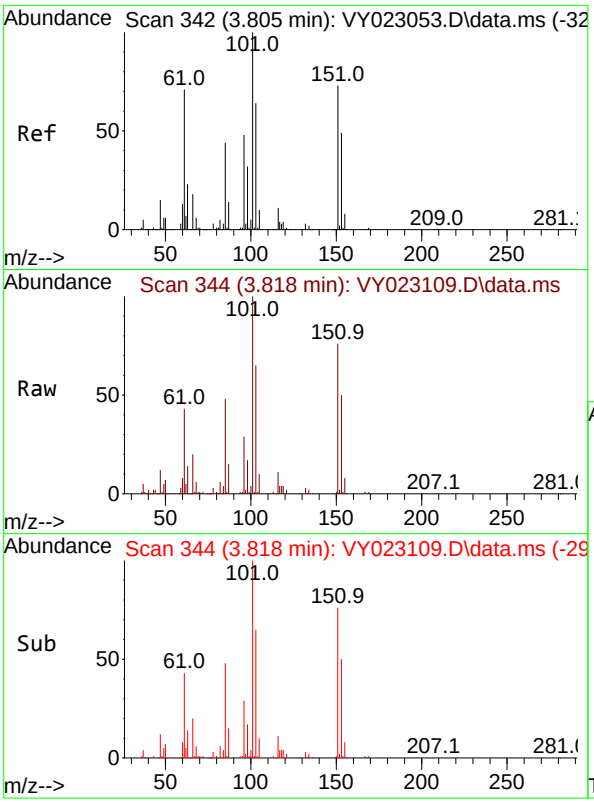


#8
Diethyl Ether
Concen: 46.826 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 74 Resp: 102502

Ion	Ratio	Lower	Upper
74	100		
45	86.7	44.4	133.2





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.401 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:101 Resp: 18532

Ion	Ratio	Lower	Upper
101	100		
85	47.0	36.3	54.5
151	76.6	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
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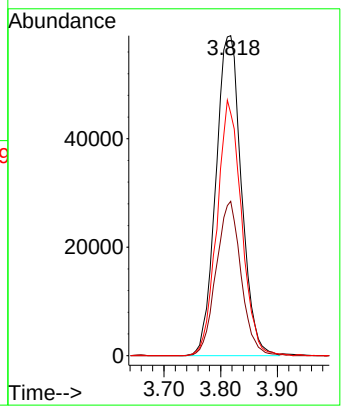
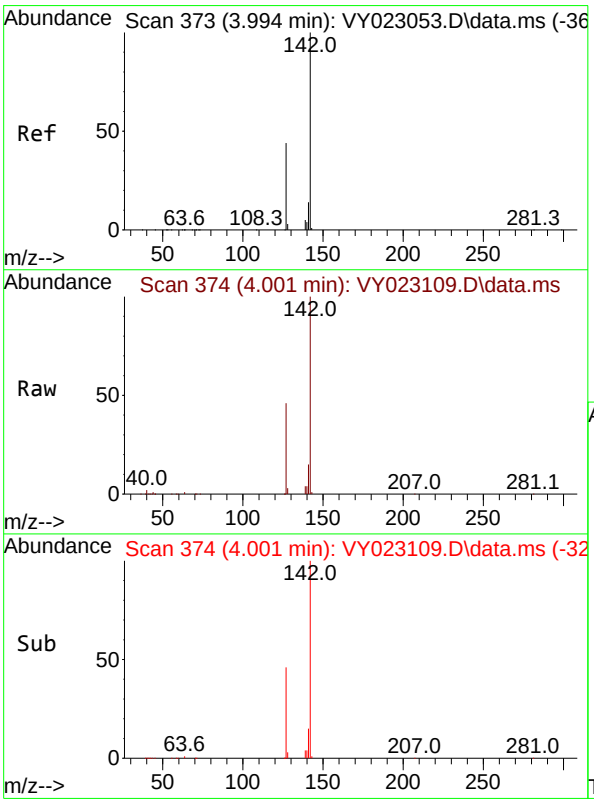
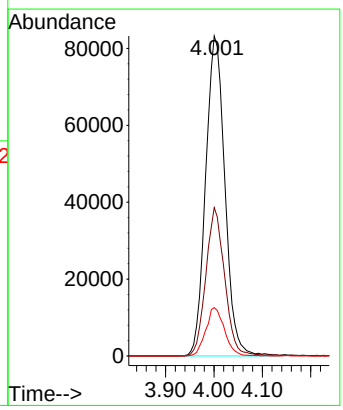


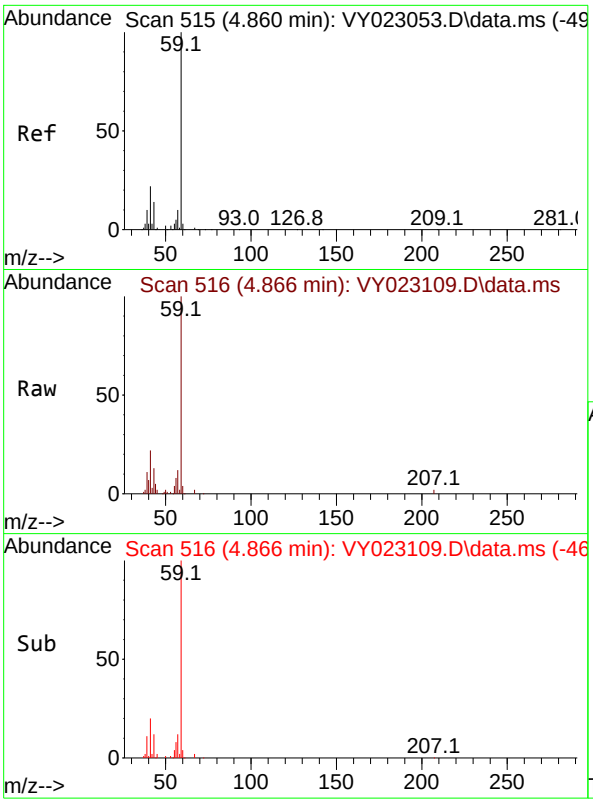


#10
Methyl Iodide
Concen: 52.294 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:142 Resp: 230343

Ion	Ratio	Lower	Upper
142	100		
127	45.3	34.9	52.3
141	14.7	11.3	16.9

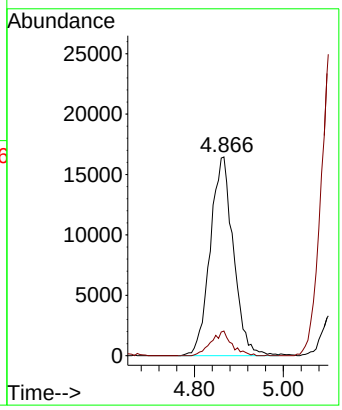




#11
Tert butyl alcohol
Concen: 219.404 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 59 Resp: 5965

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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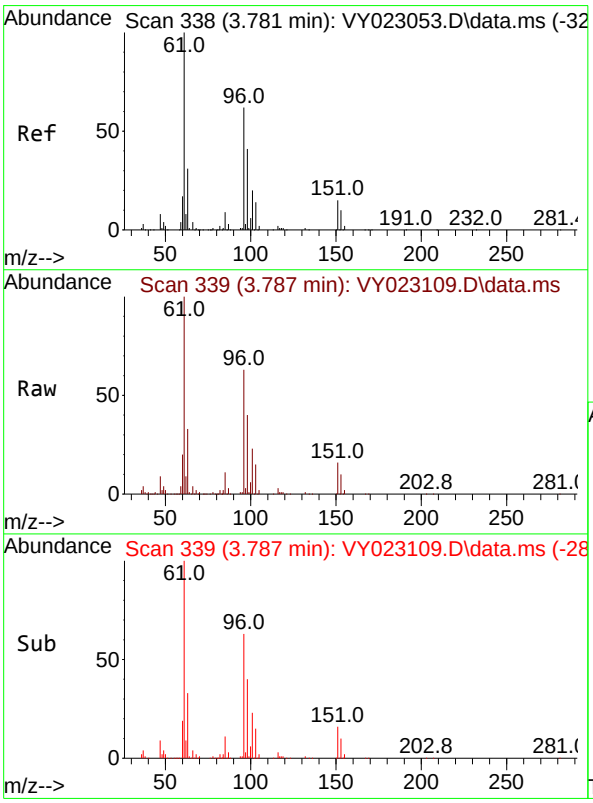
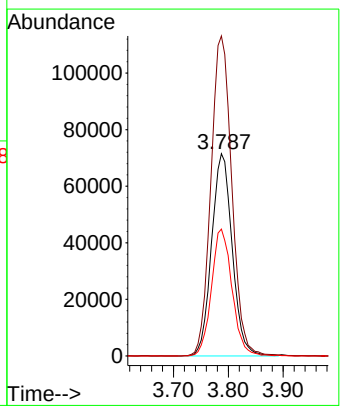
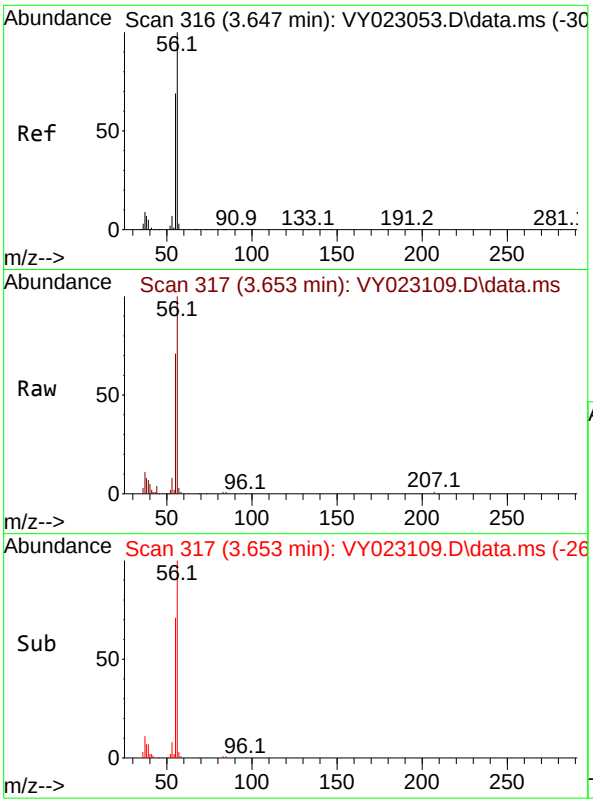


#12
1,1-Dichloroethene
Concen: 46.597 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 96 Resp: 186960

Ion	Ratio	Lower	Upper
96	100		
61	158.3	129.4	194.2
98	62.7	52.8	79.2

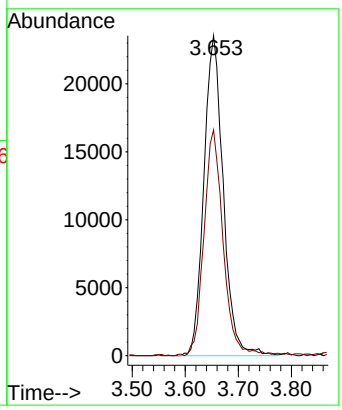




#13
Acrolein
Concen: 150.160 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 56 Resp: 5979

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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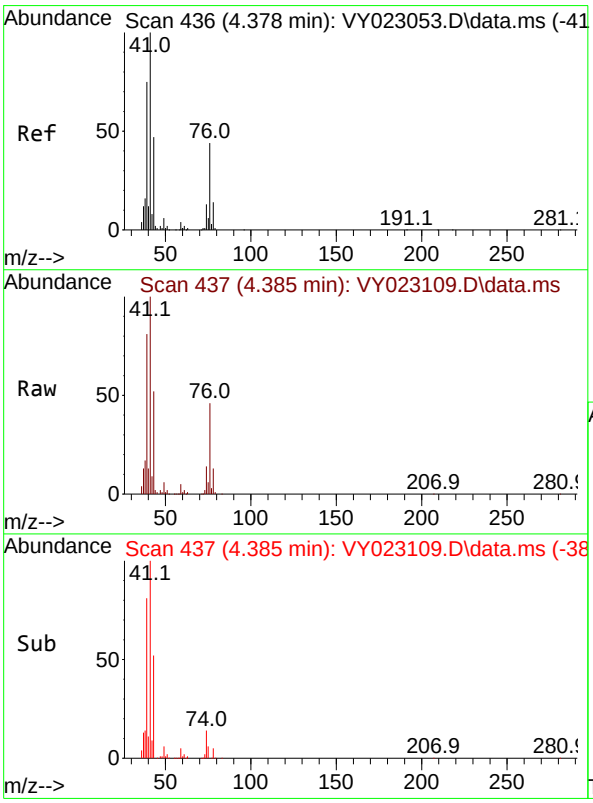
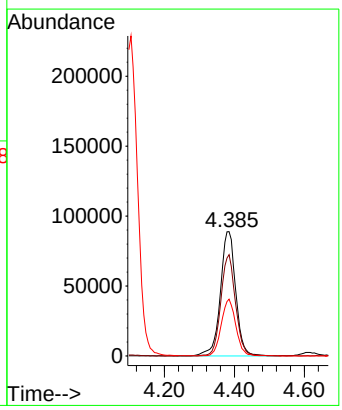
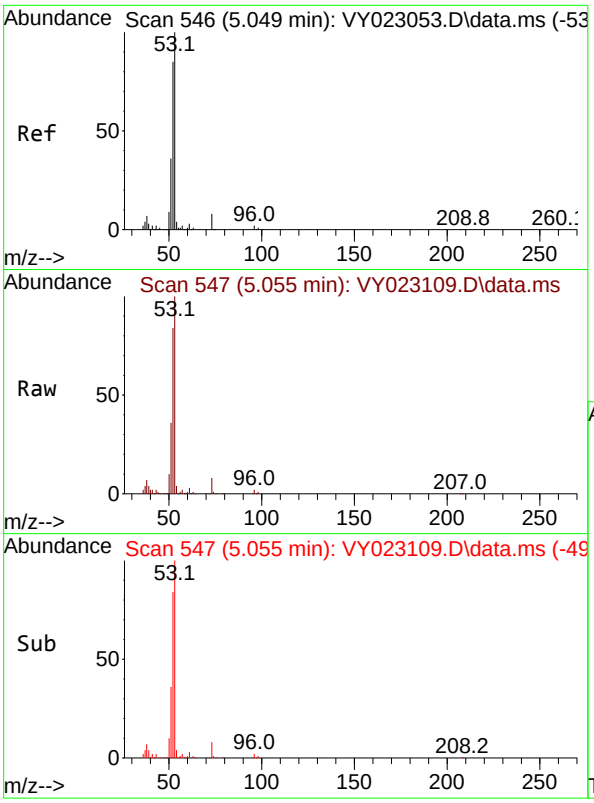


#14
Allyl chloride
Concen: 45.884 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 270891

Ion	Ratio	Lower	Upper
41	100		
39	78.0	59.8	89.6
76	43.3	33.7	50.5

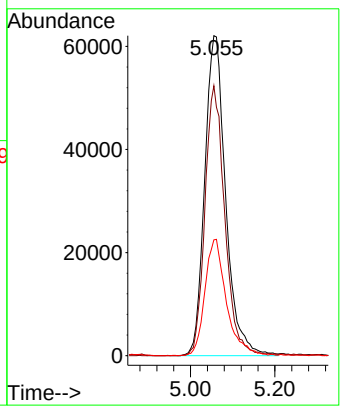




#15
Acrylonitrile
Concen: 241.303 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 53 Resp: 21474

Ion	Ratio	Lower	Upper
53	100		
52	80.1	65.3	97.9
51	37.3	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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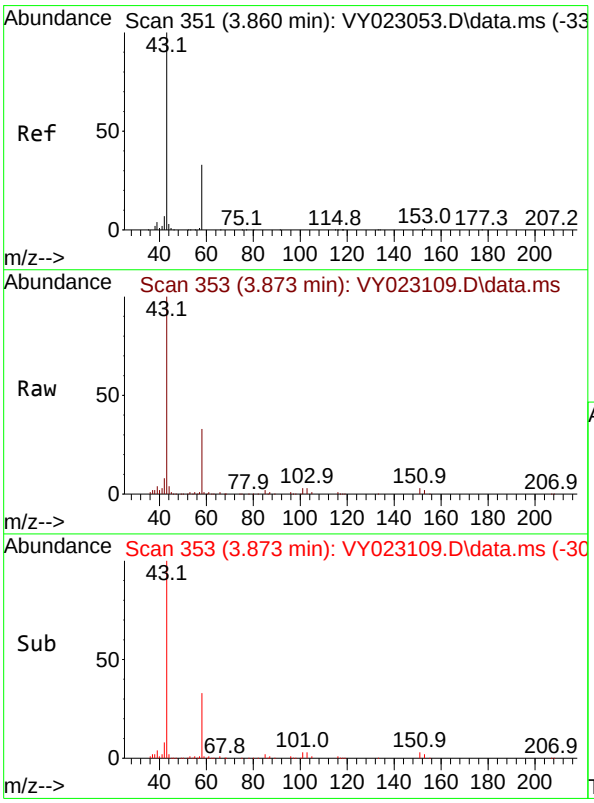
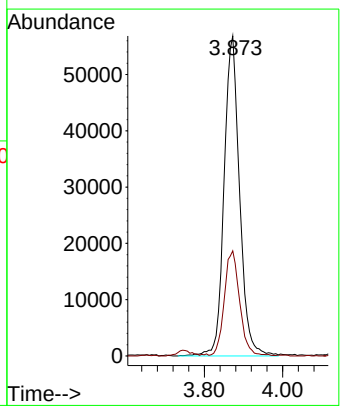
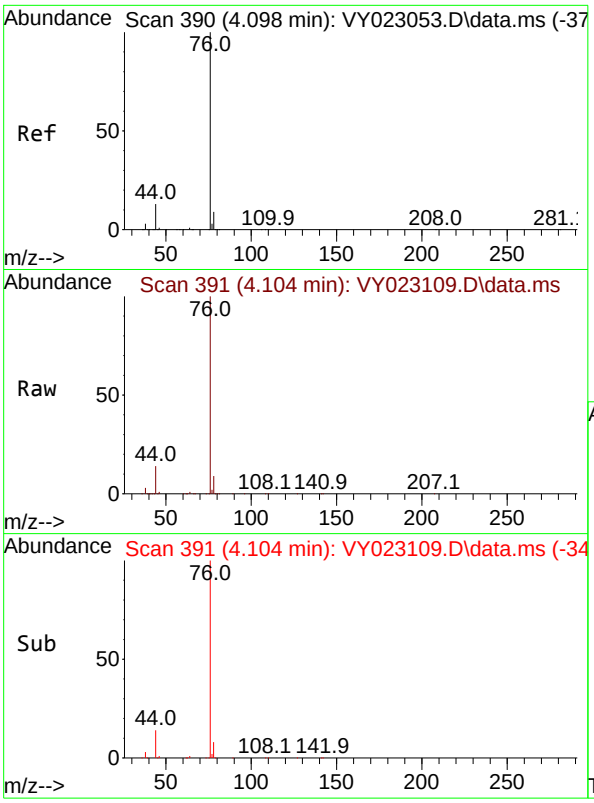


#16
Acetone
Concen: 182.326 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 156746

Ion	Ratio	Lower	Upper
43	100		
58	32.6	27.1	40.7





#17
Carbon Disulfide
Concen: 46.257 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 76 Resp: 60516

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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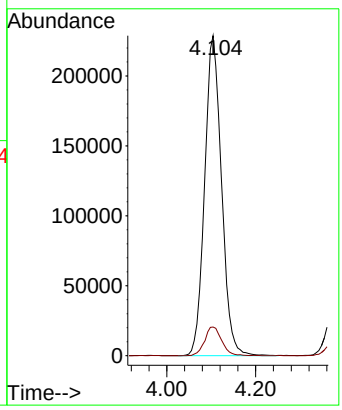
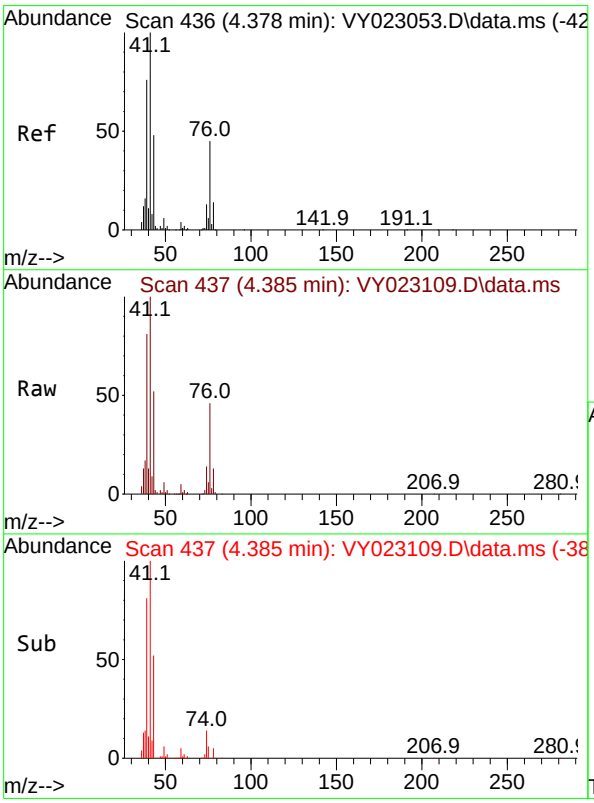
Supervised By :Mahesh Dadoda 08/19/2025

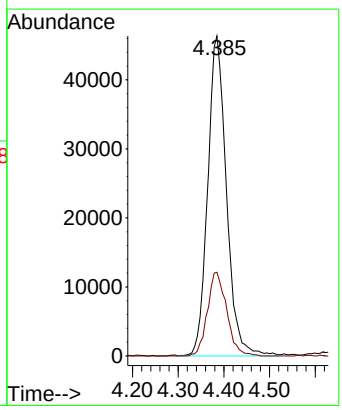


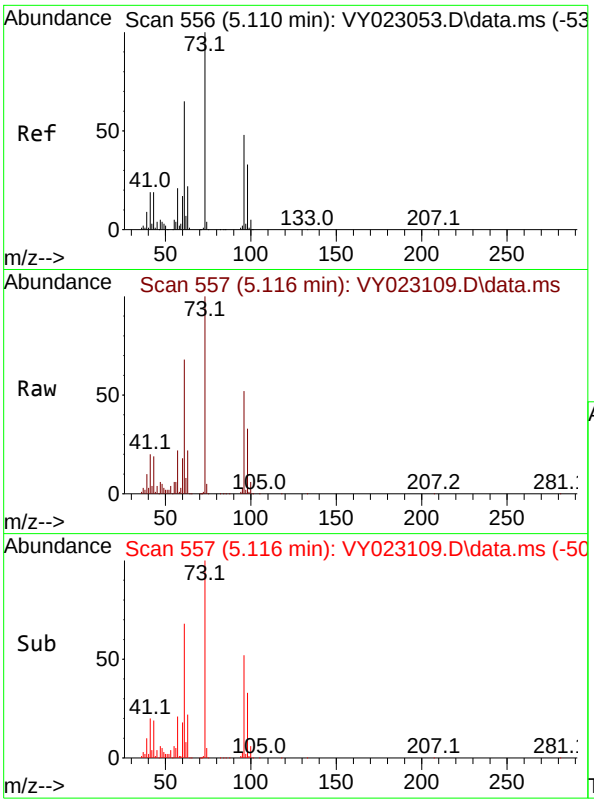


#18
Methyl Acetate
Concen: 51.627 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 132078

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8

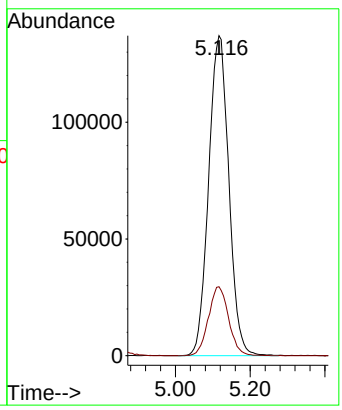




#19
Methyl tert-butyl Ether
Concen: 49.373 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 73 Resp: 51333

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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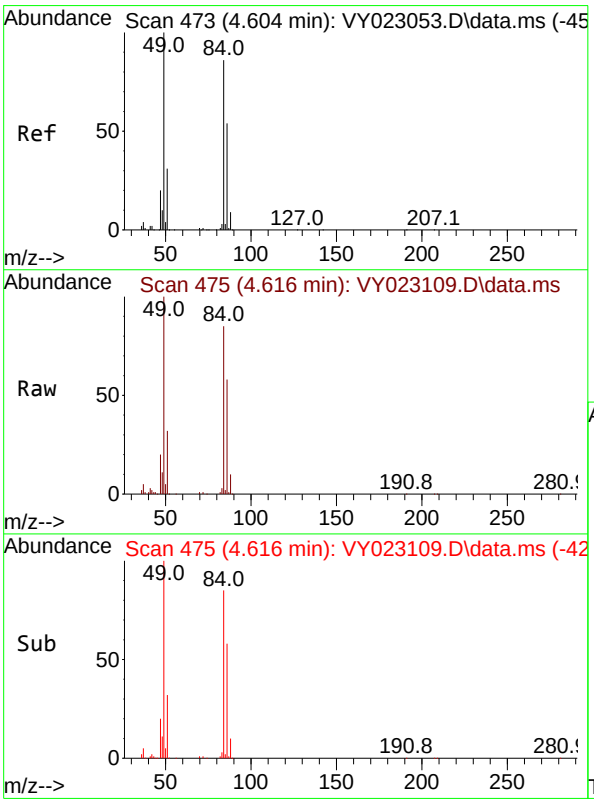
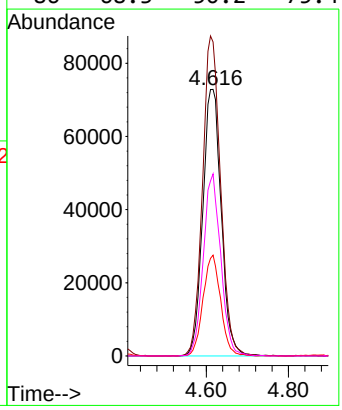
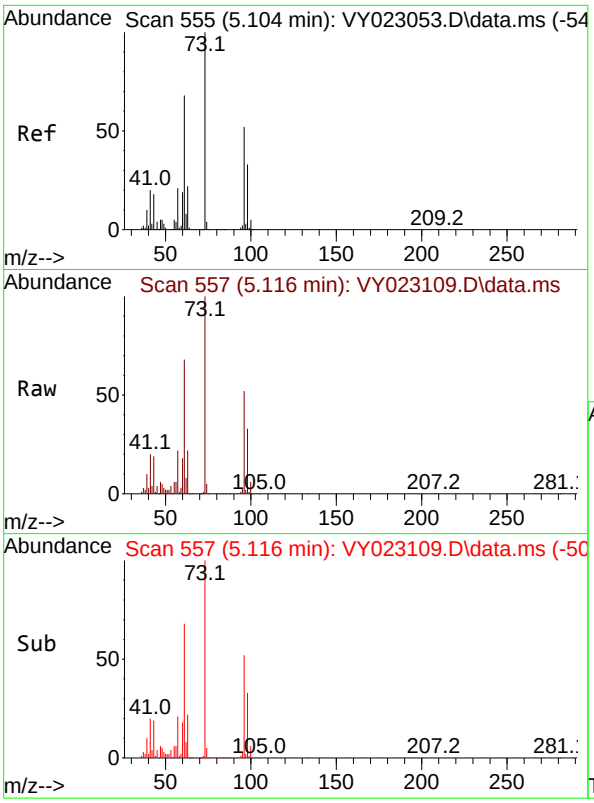


#20
Methylene Chloride
Concen: 50.830 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 84 Resp: 226871

Ion	Ratio	Lower	Upper
84	100		
49	117.8	93.0	139.6
51	37.9	29.0	43.4
86	68.3	50.2	75.4

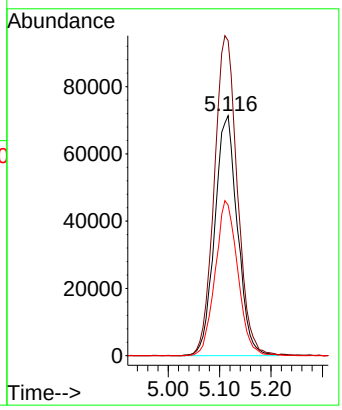




#21
trans-1,2-Dichloroethene
Concen: 48.739 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 96 Resp: 21976

Ion	Ratio	Lower	Upper
96	100		
61	131.3	104.8	157.2
98	62.7	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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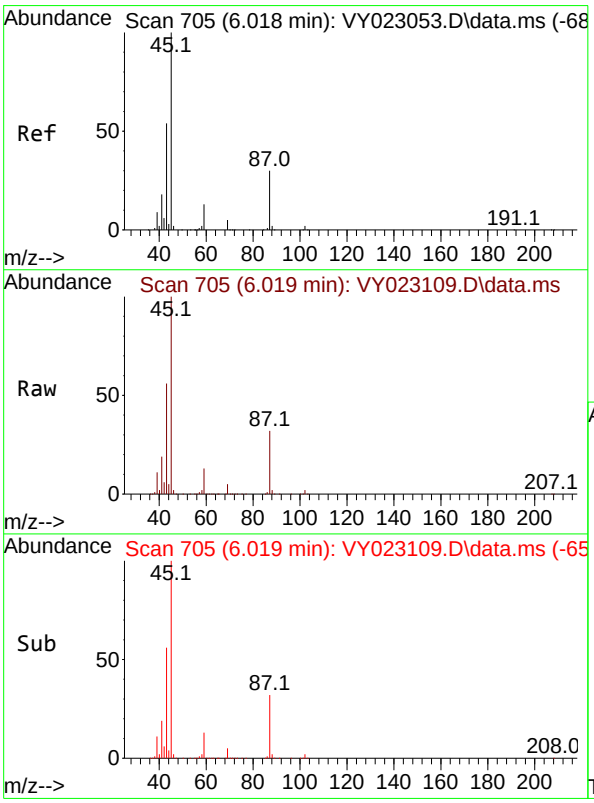
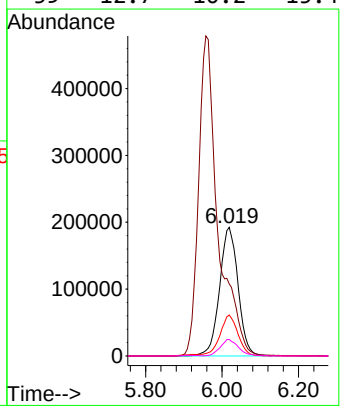
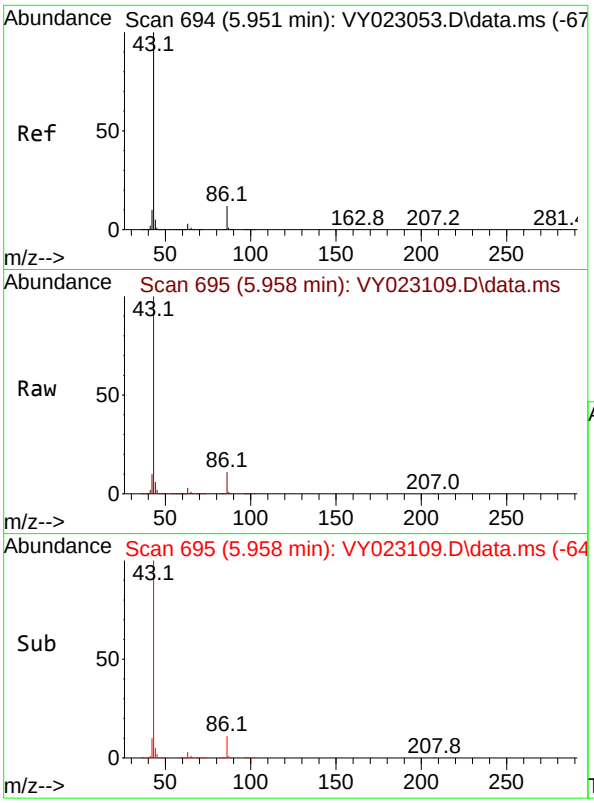


#22
Diisopropyl ether
Concen: 50.509 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 45 Resp: 647978

Ion	Ratio	Lower	Upper
45	100		
43	56.0	43.4	65.0
87	31.9	24.4	36.6
59	12.7	10.2	15.4





#23
Vinyl Acetate
Concen: 238.003 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 168835

Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.6	14.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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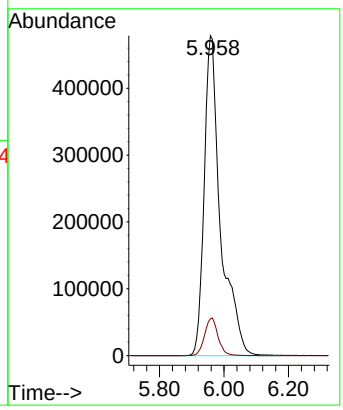
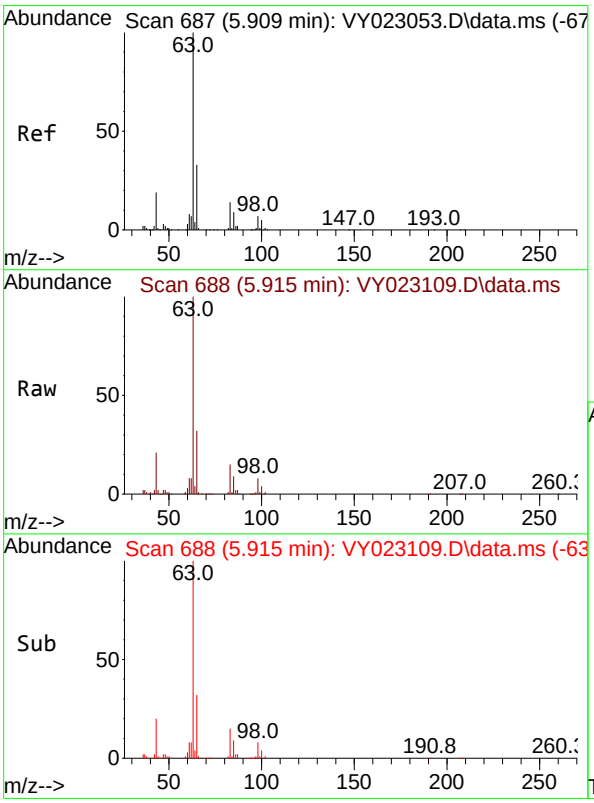
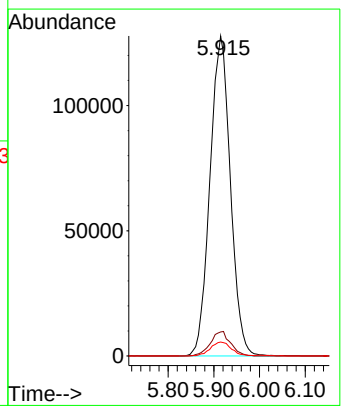


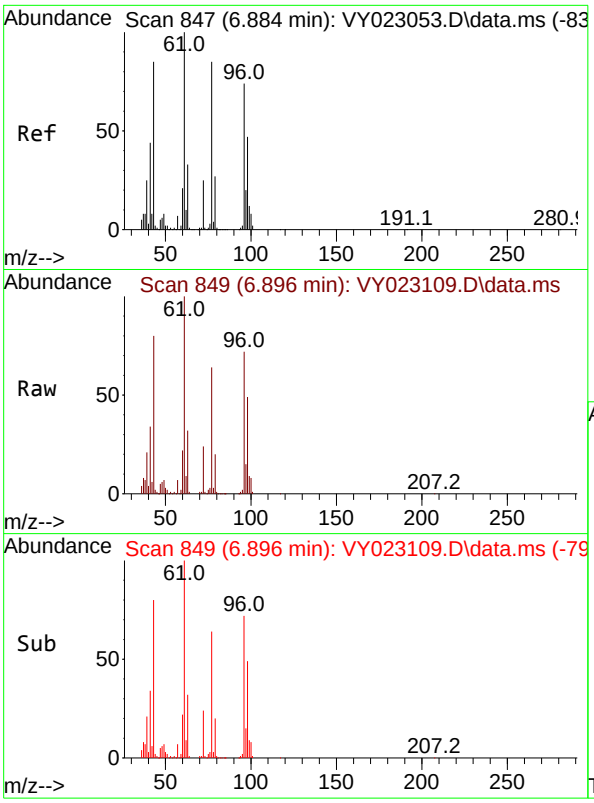


#24
1,1-Dichloroethane
Concen: 50.629 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 397112

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.5	10.6
100	4.4	2.4	7.1





#25
2-Butanone
Concen: 220.416 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 25771

Ion	Ratio	Lower	Upper
43	100		
72	30.4	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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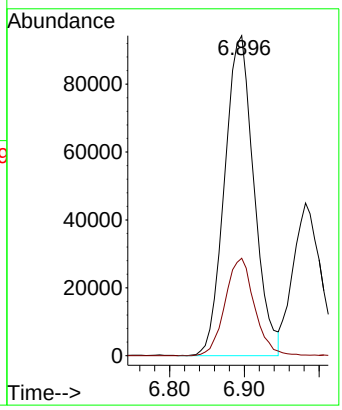
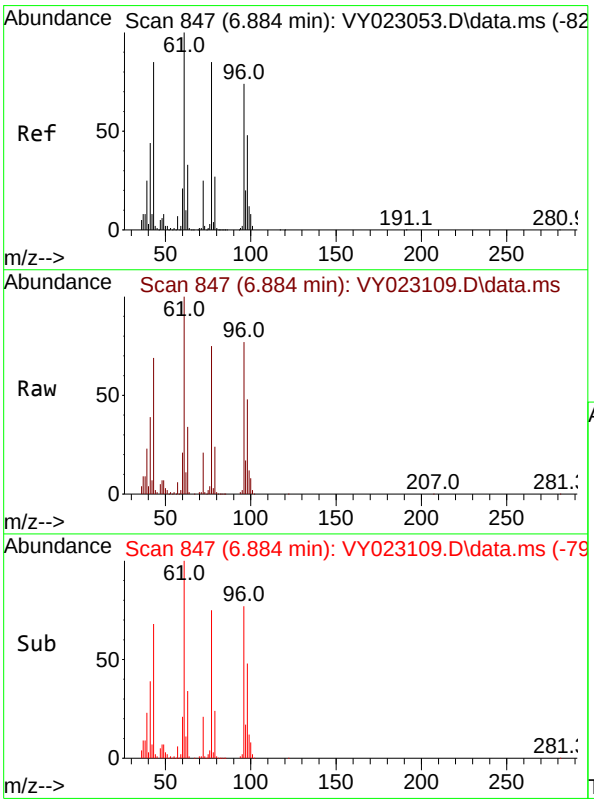
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

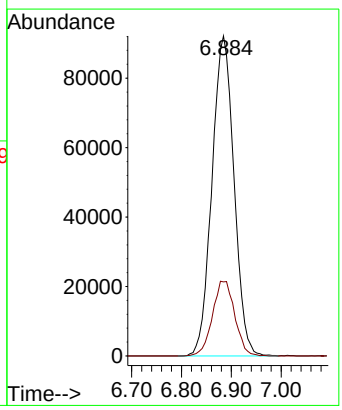


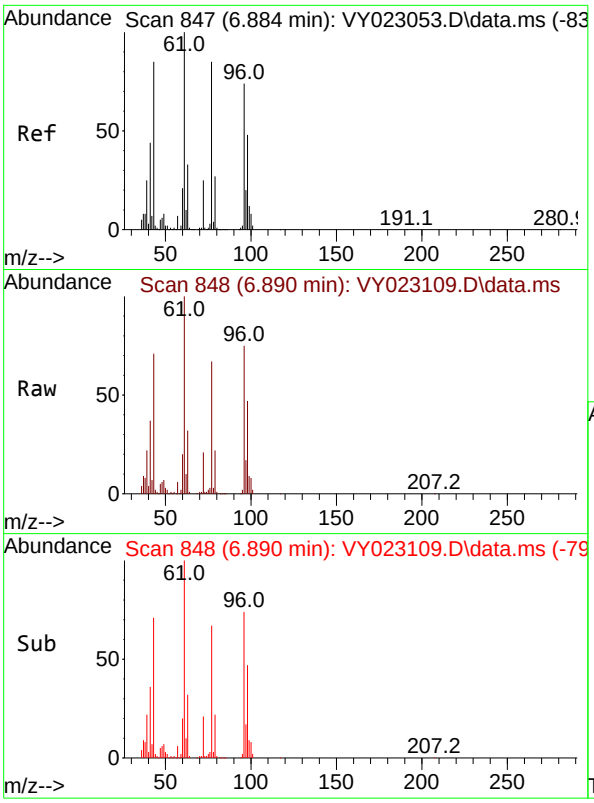


#26
2,2-Dichloropropane
Concen: 41.758 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 77 Resp: 282620

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.8





#27
cis-1,2-Dichloroethene
Concen: 50.429 ug/l
RT: 6.890 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 96 Resp: 26286

Ion	Ratio	Lower	Upper
96	100		
61	137.3	0.0	278.6
98	64.3	0.0	130.4

Instrument :
MSVOA_Y
ClientSampleId :
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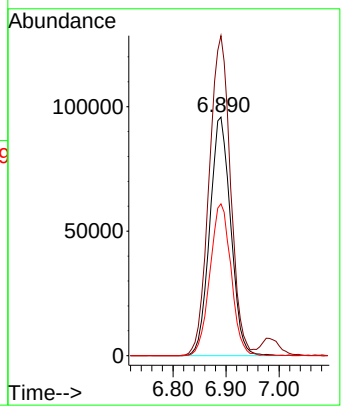
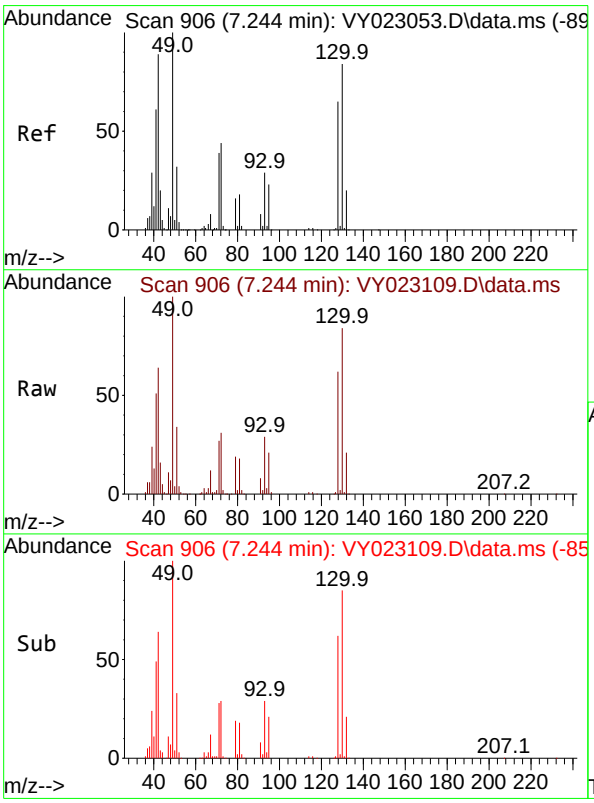
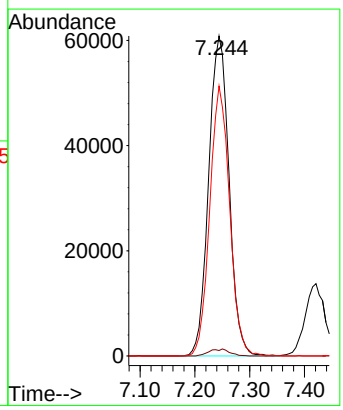


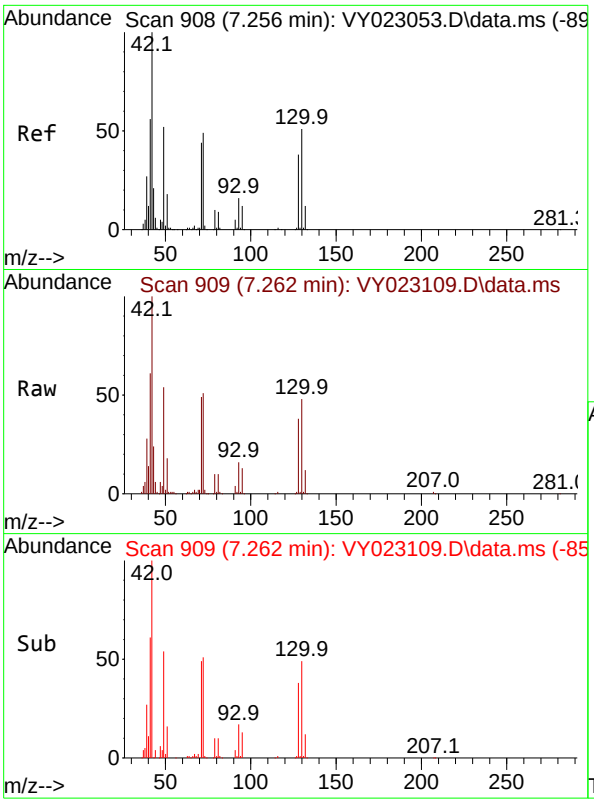


#28
Bromochloromethane
Concen: 50.366 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 49 Resp: 156731

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.2	66.4	99.6

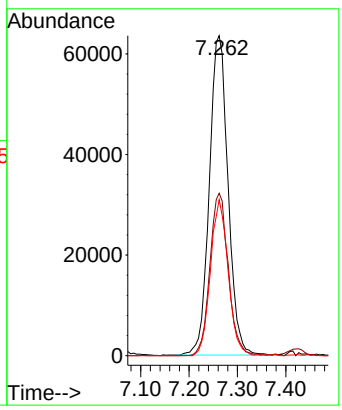




#29
Tetrahydrofuran
Concen: 235.626 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 42 Resp: 17077

Ion	Ratio	Lower	Upper
42	100		
72	50.1	39.4	59.2
71	46.1	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
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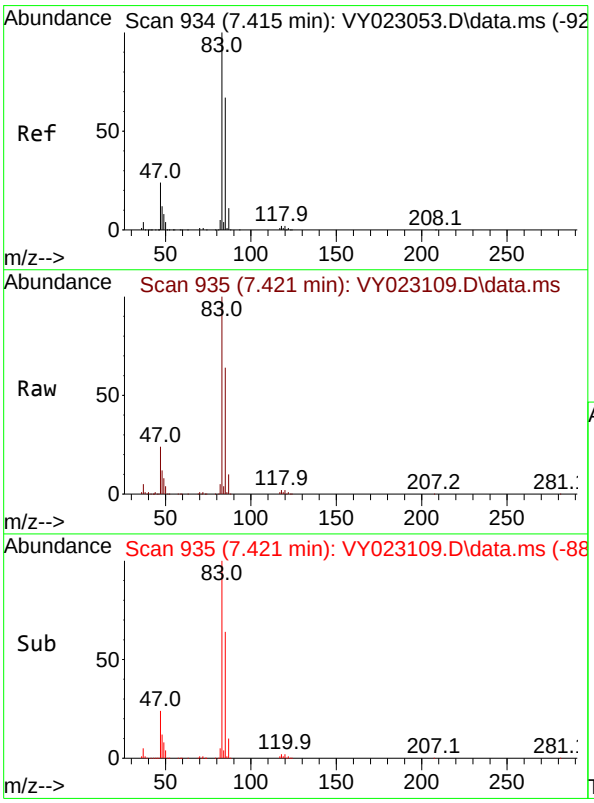
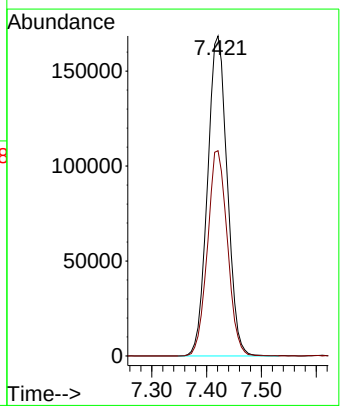
Supervised By :Mahesh Dadoda 08/19/2025

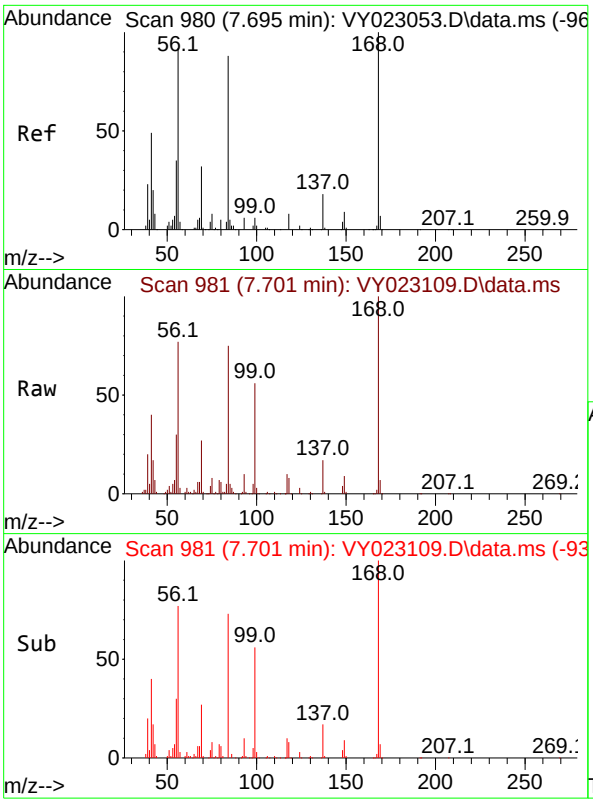


#30
Chloroform
Concen: 51.980 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 420476

Ion	Ratio	Lower	Upper
83	100		
85	64.2	53.8	80.8

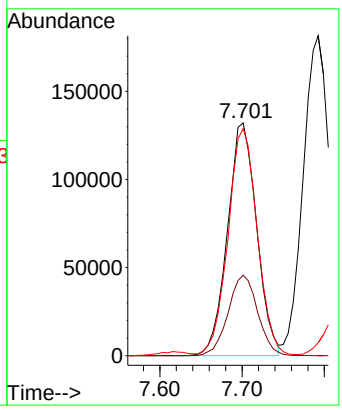




#31
Cyclohexane
Concen: 43.985 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 56 Resp: 32510

Ion	Ratio	Lower	Upper
56	100		
69	34.6	28.2	42.2
84	96.0	76.6	114.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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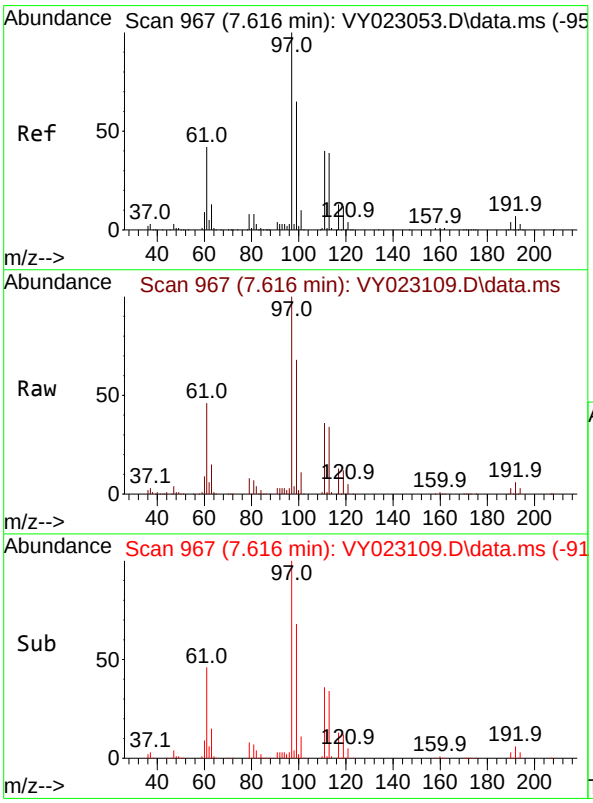
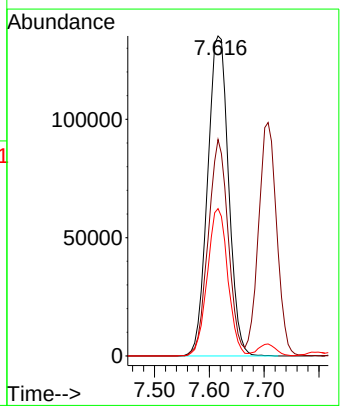
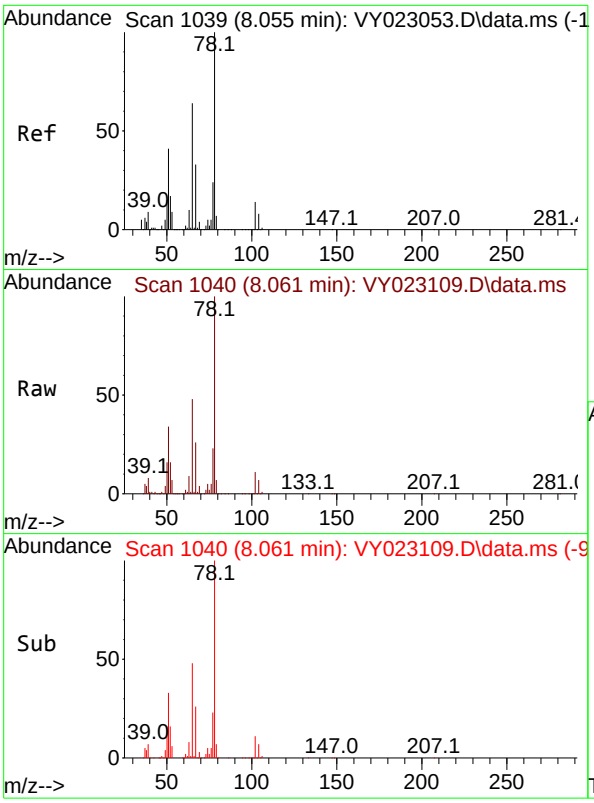


#32
1,1,1-Trichloroethane
Concen: 50.099 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 97 Resp: 359591

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.6	77.4
61	45.0	34.2	51.2

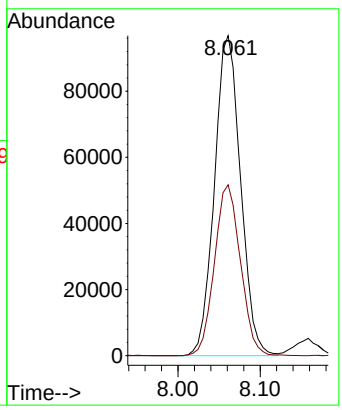




#33
1,2-Dichloroethane-d4
Concen: 53.901 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 65 Resp: 21389

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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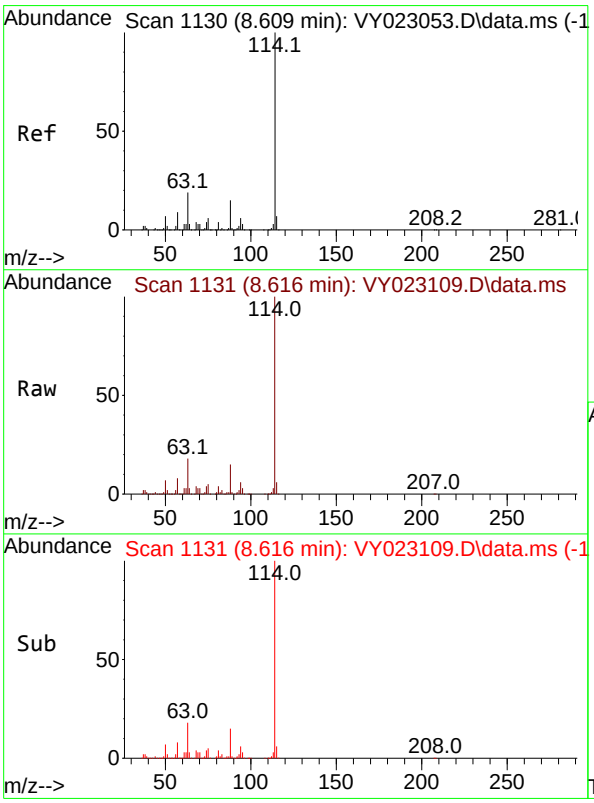
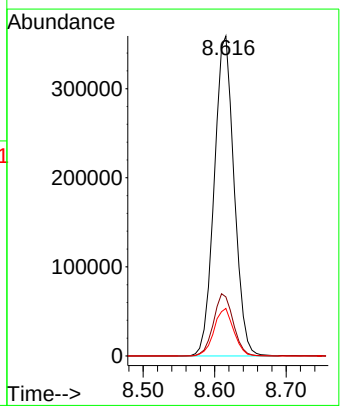
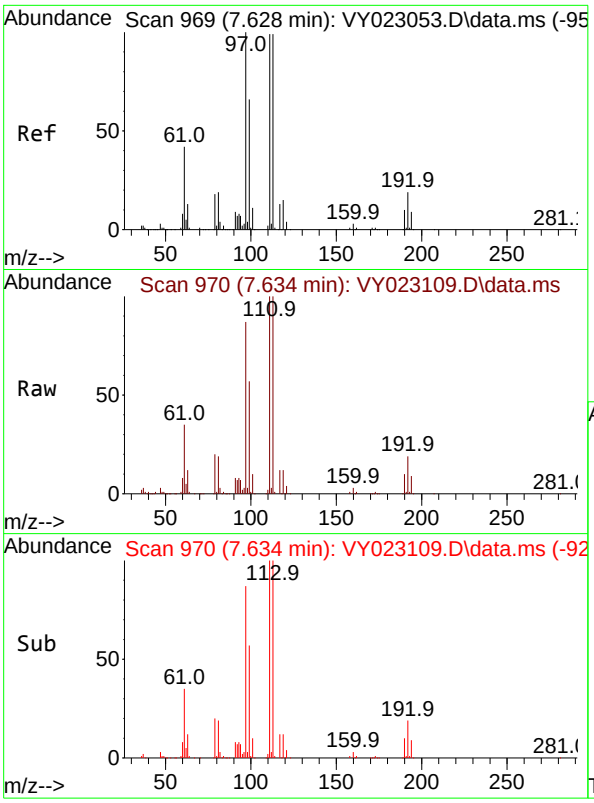


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:114 Resp: 692312

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	38.4
88	14.9	0.0	30.0





#35
Dibromofluoromethane
Concen: 50.660 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:113 Resp: 20986

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.1	121.7
192	19.4	16.2	24.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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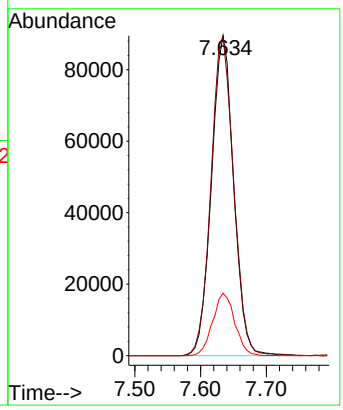
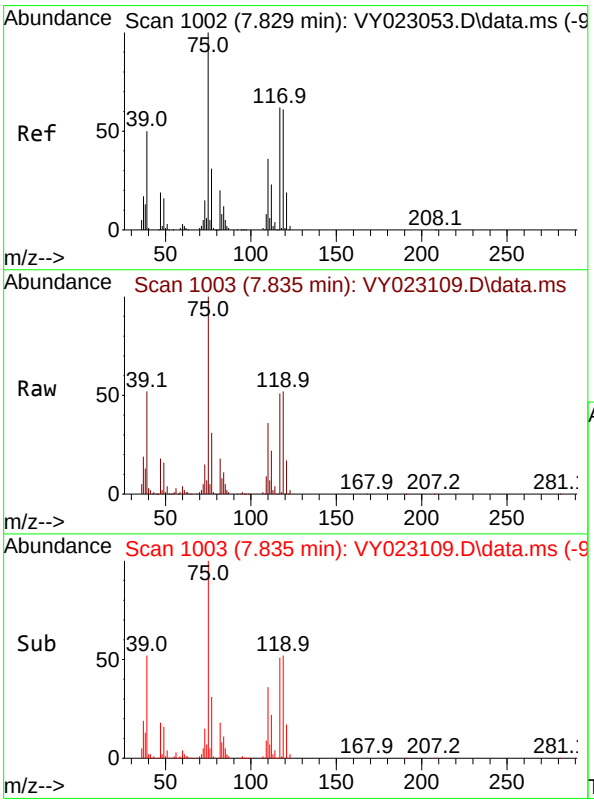
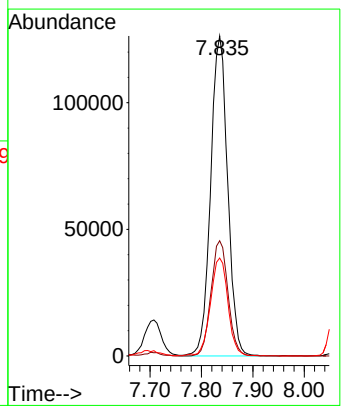


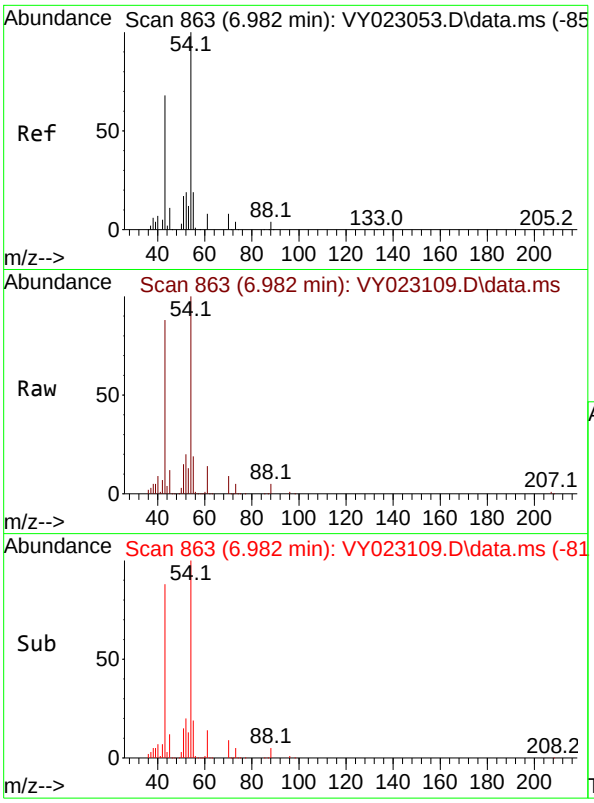


#36
1,1-Dichloropropene
Concen: 47.183 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 290479

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.4
77	31.4	24.6	37.0





#37
Ethyl Acetate
Concen: 45.871 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 11862

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.9	17.9
70	10.4	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
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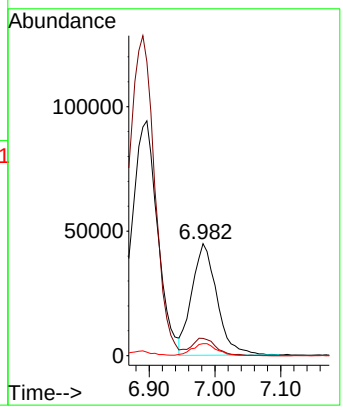
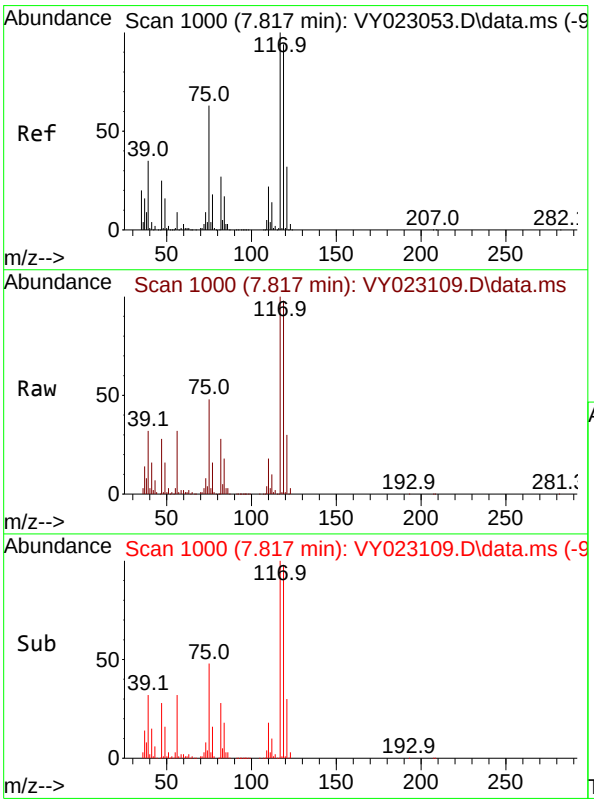
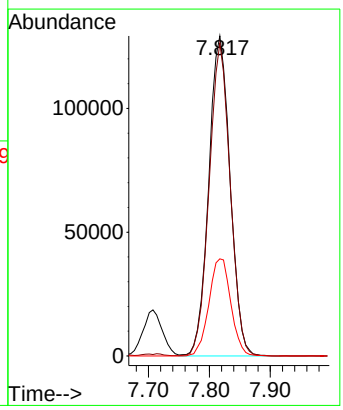


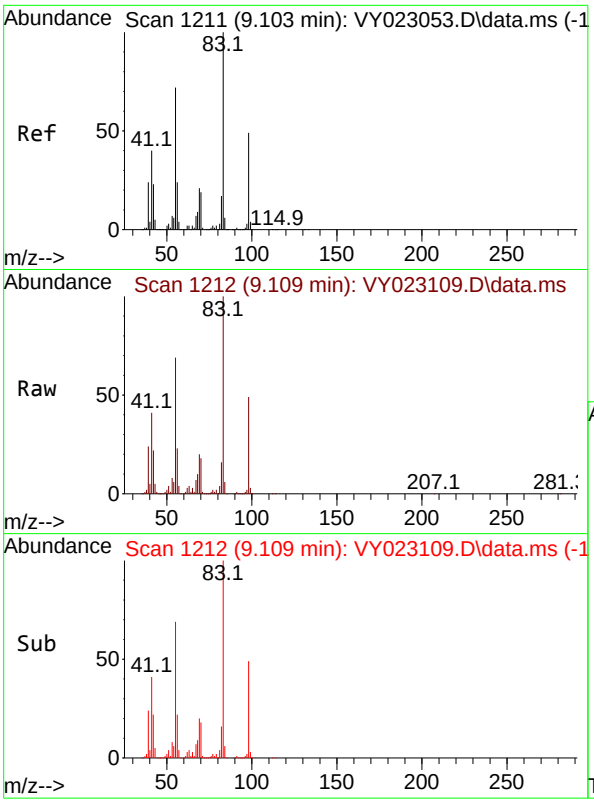


#38
Carbon Tetrachloride
Concen: 47.160 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 315347

Ion	Ratio	Lower	Upper
117	100		
119	97.8	75.6	113.4
121	30.4	25.8	38.8





#39
Methylcyclohexane
Concen: 45.989 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 37284

Ion	Ratio	Lower	Upper
83	100		
55	69.4	57.6	86.4
98	49.4	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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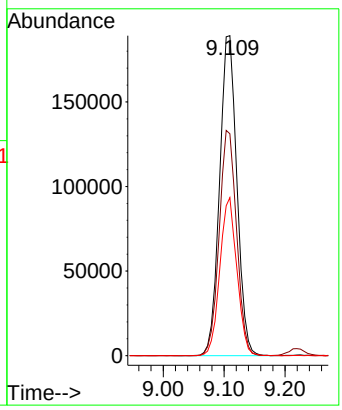
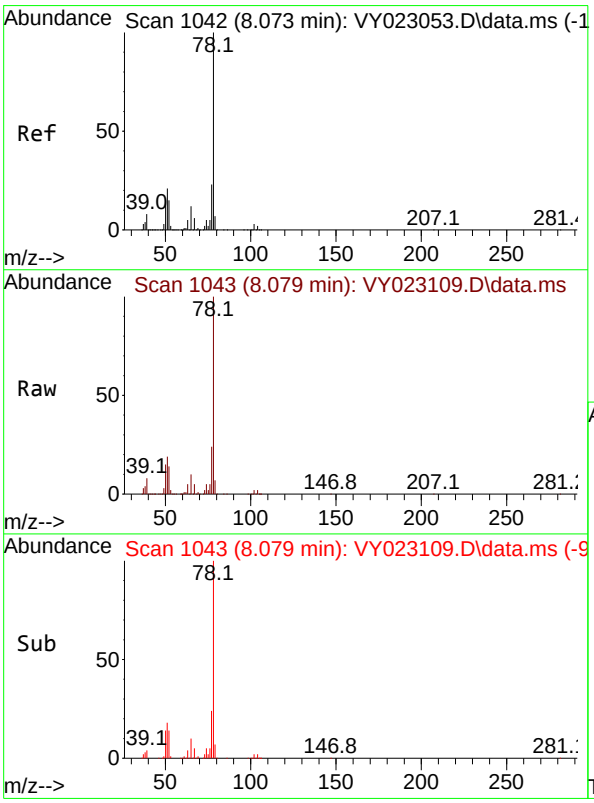
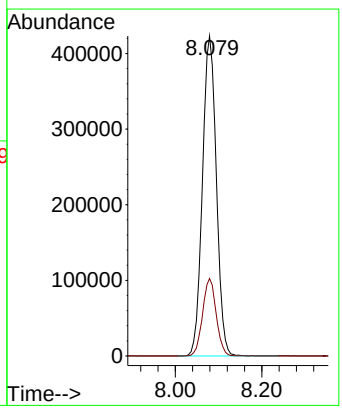


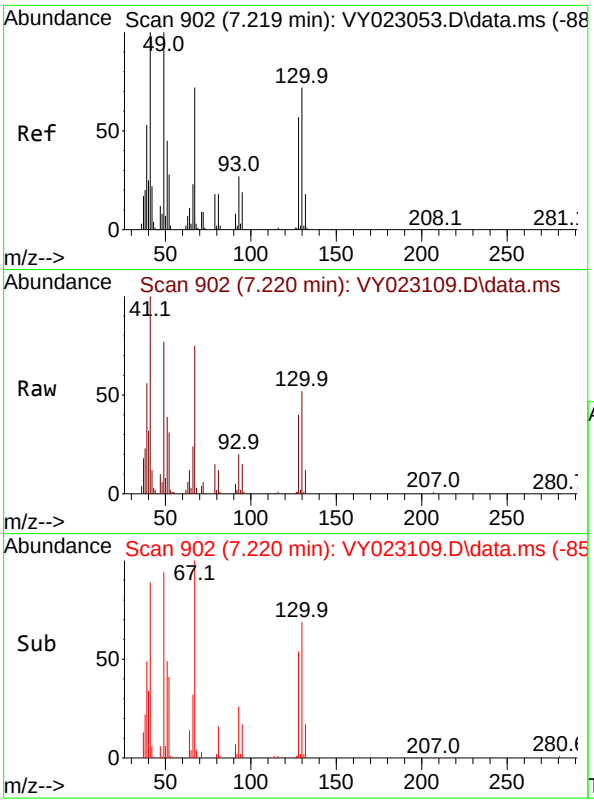


#40
Benzene
Concen: 49.676 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 78 Resp: 942603

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.6	28.0

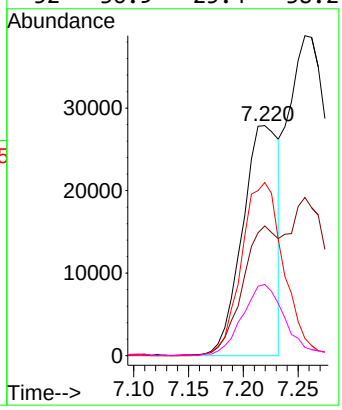




#41
Methacrylonitrile
Concen: 42.799 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 6387

Ion	Ratio	Lower	Upper
41	100		
39	55.6	43.4	65.2
67	88.2	63.6	95.4
52	36.9	25.4	38.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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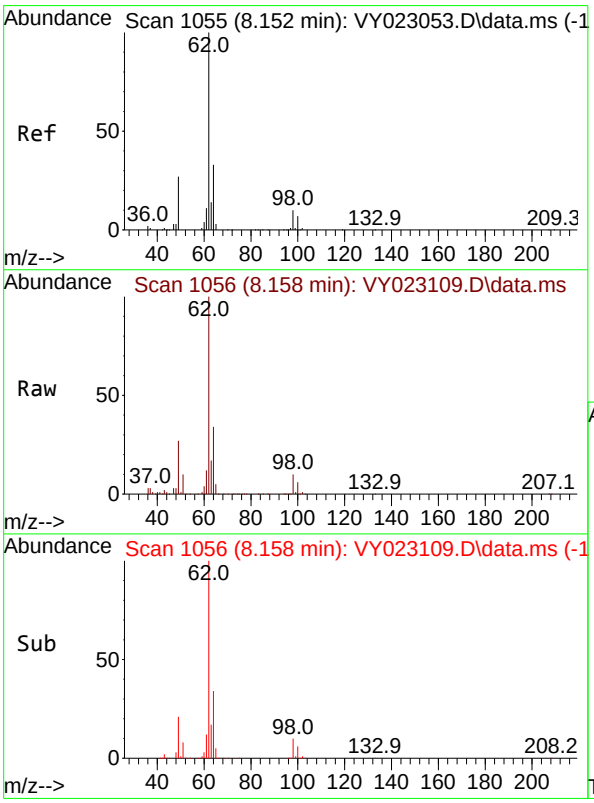
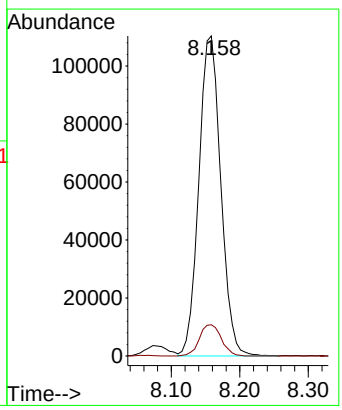
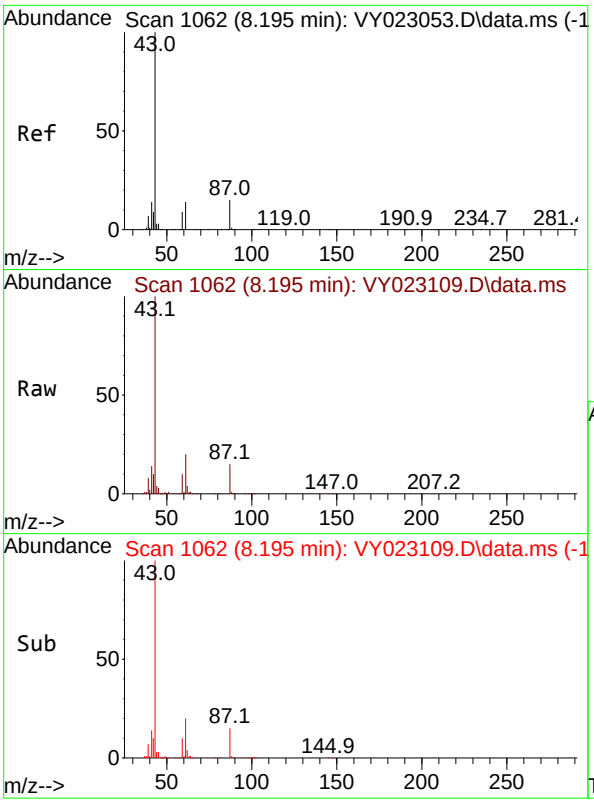


#42
1,2-Dichloroethane
Concen: 49.831 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 245917

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.6





#43
Isopropyl Acetate
Concen: 46.911 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 24520

Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.4	24.6
87	14.9	11.8	17.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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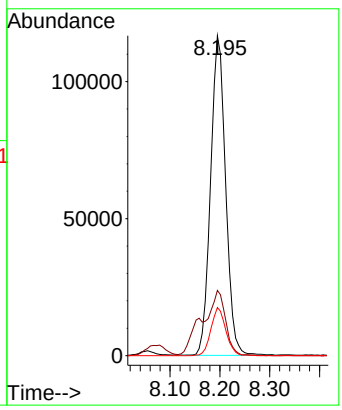
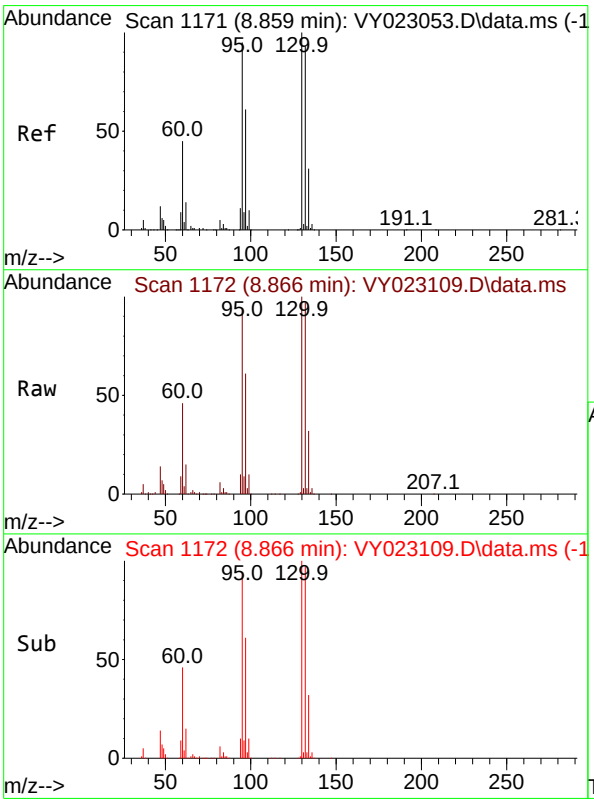
Supervised By :Mahesh Dadoda 08/19/2025

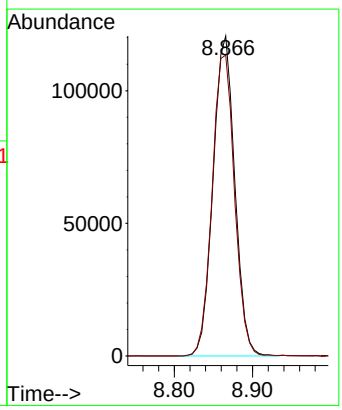


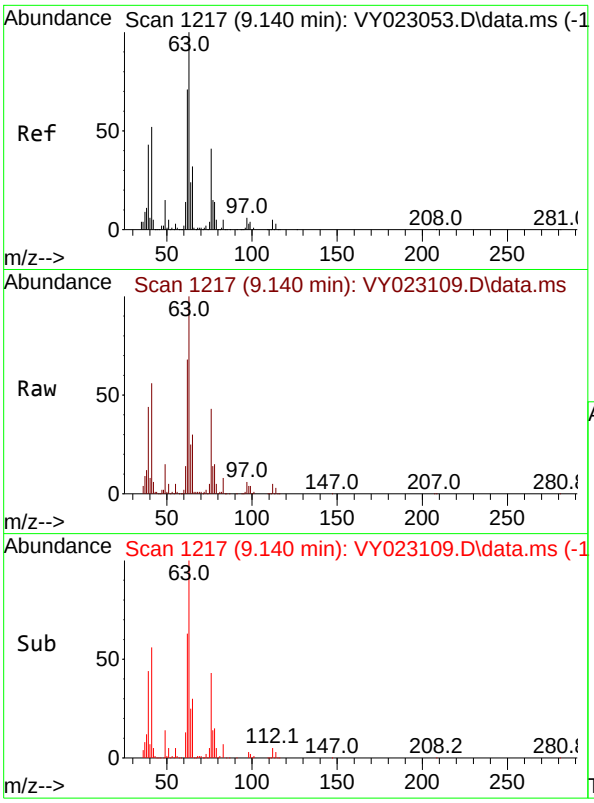


#44
Trichloroethene
Concen: 47.429 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:130 Resp: 232571

Ion	Ratio	Lower	Upper
130	100		
95	94.0	0.0	190.2

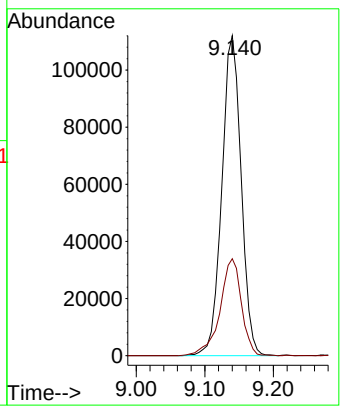




#45
1,2-Dichloropropane
Concen: 50.190 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 21912

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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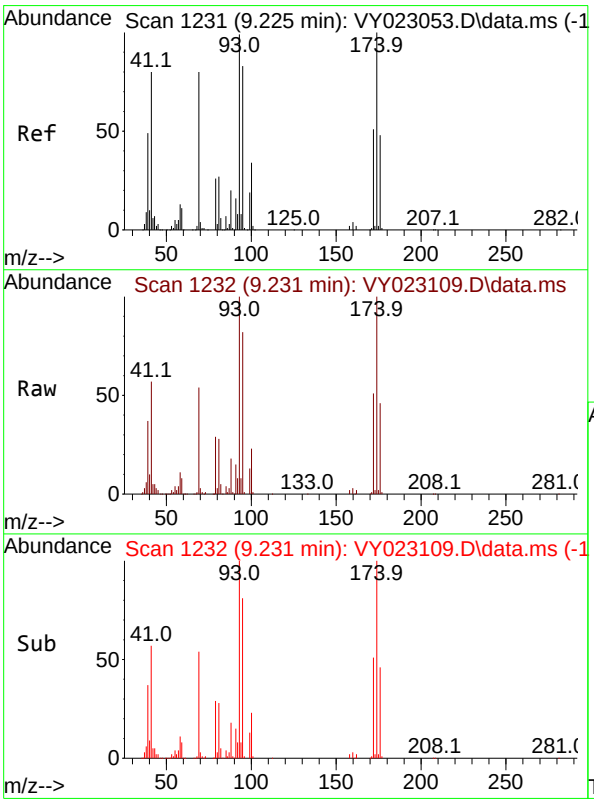
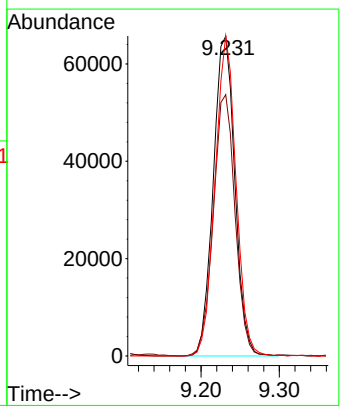
Supervised By :Mahesh Dadoda 08/19/2025

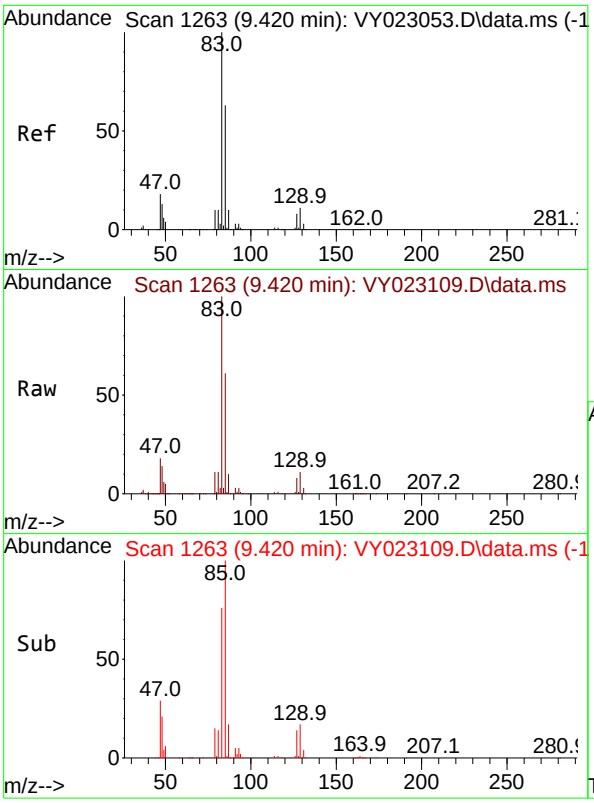


#46
Dibromomethane
Concen: 50.217 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 93 Resp: 125840

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.5	99.7
174	97.4	81.8	122.8

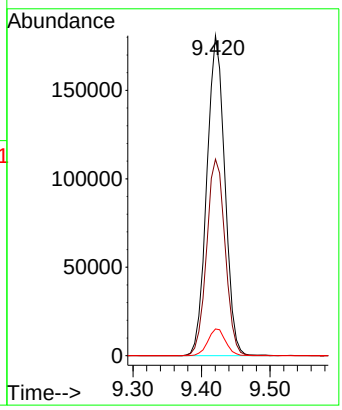




#47
Bromodichloromethane
Concen: 51.308 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 33083

Ion	Ratio	Lower	Upper
83	100		
85	61.4	50.2	75.4
127	8.3	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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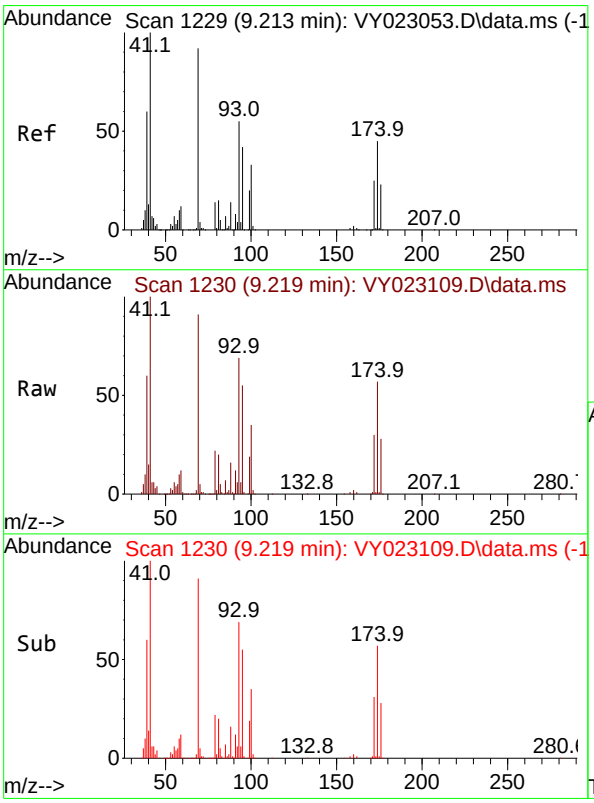
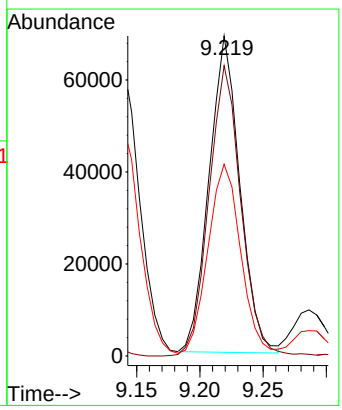
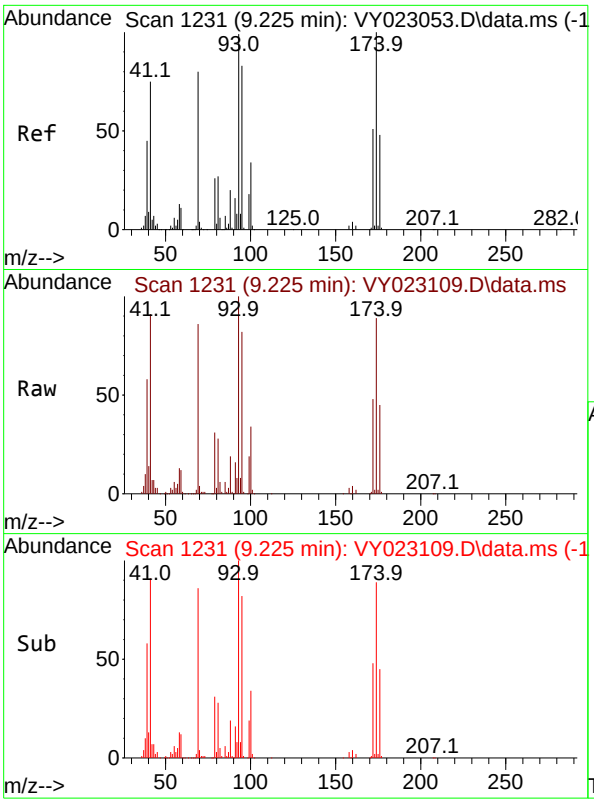


#48
Methyl methacrylate
Concen: 46.602 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 116562

Ion	Ratio	Lower	Upper
41	100		
69	95.4	73.2	109.8
39	63.1	47.0	70.4





#49
1,4-Dioxane
Concen: 959.813 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 88 Resp: 2820

Ion	Ratio	Lower	Upper
88	100		
43	28.7	24.3	36.5
58	62.1	55.4	83.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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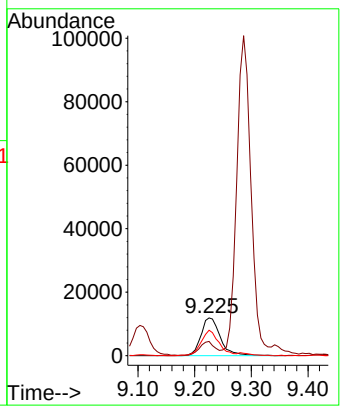
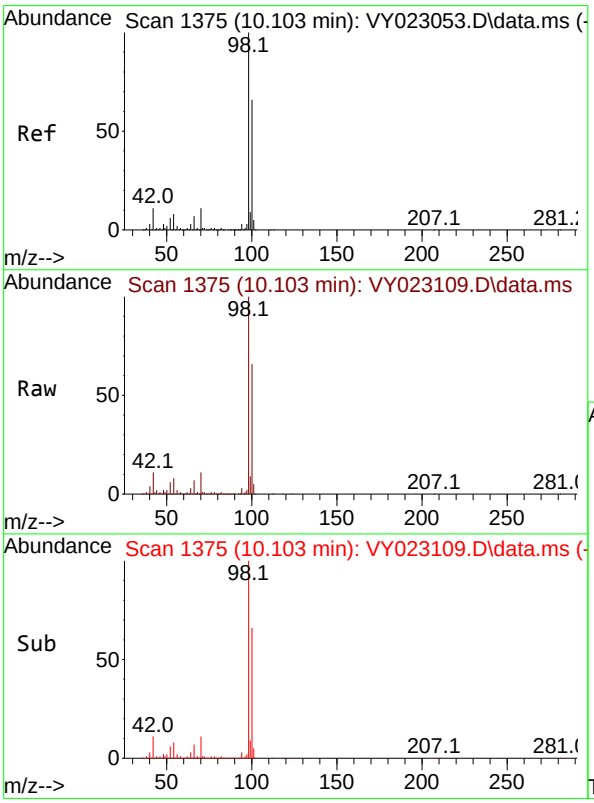
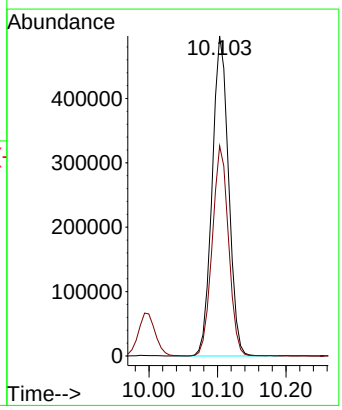


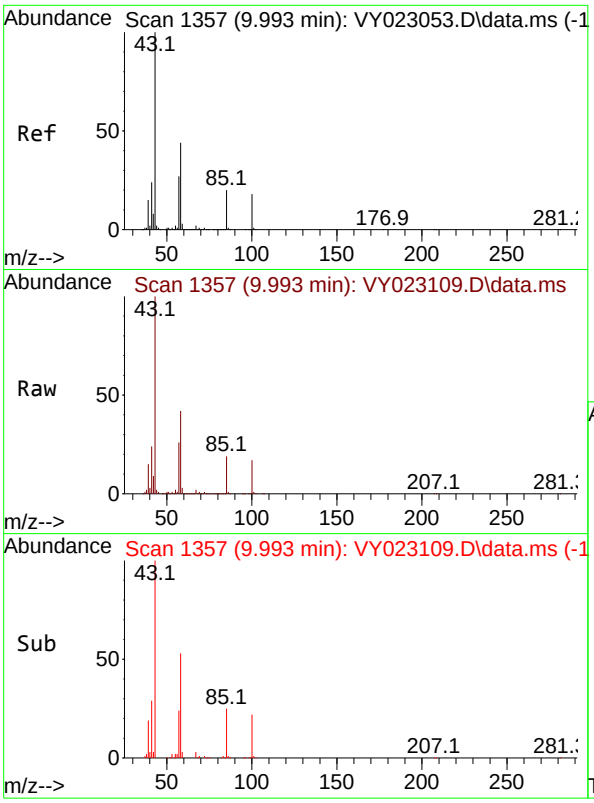


#50
Toluene-d8
Concen: 50.964 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 98 Resp: 824760

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

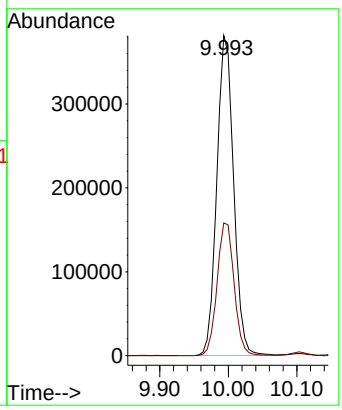




#51
4-Methyl-2-Pentanone
Concen: 240.407 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 64819

Ion	Ratio	Lower	Upper
43	100		
58	42.2	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
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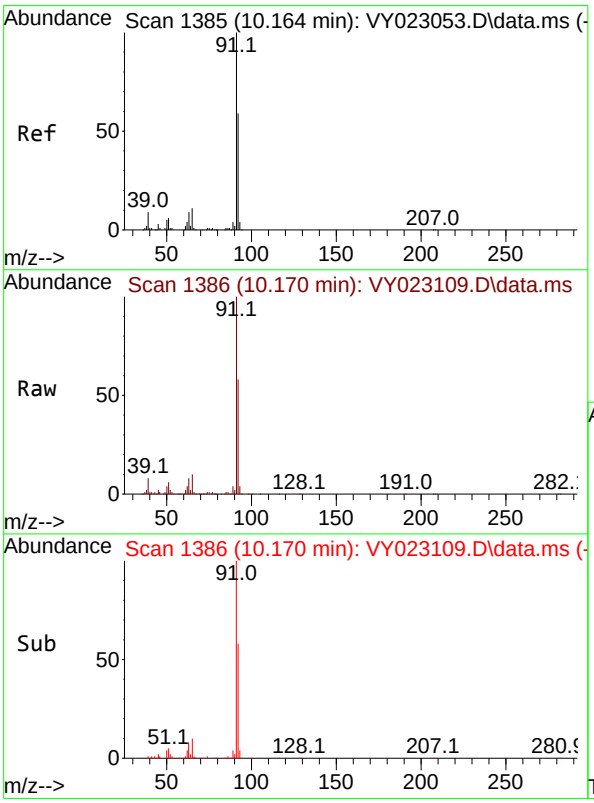
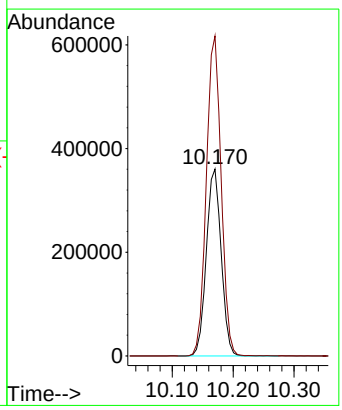
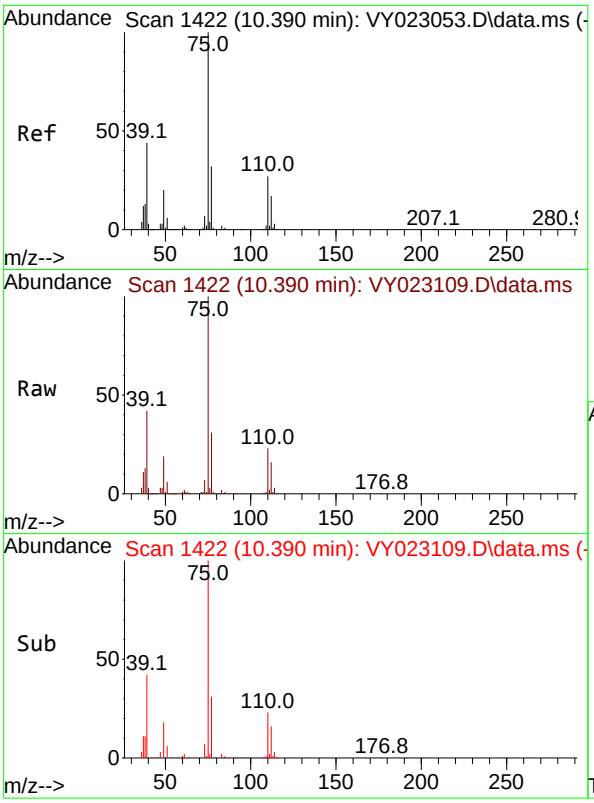


#52
Toluene
Concen: 50.491 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 92 Resp: 608495

Ion	Ratio	Lower	Upper
92	100		
91	171.0	136.4	204.6

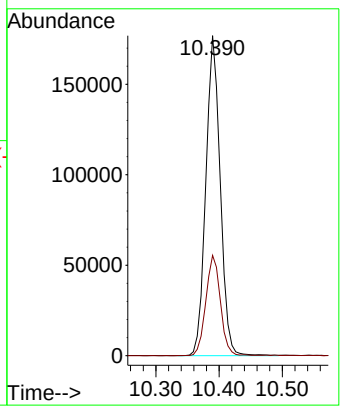




#53
t-1,3-Dichloropropene
Concen: 48.061 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 28062

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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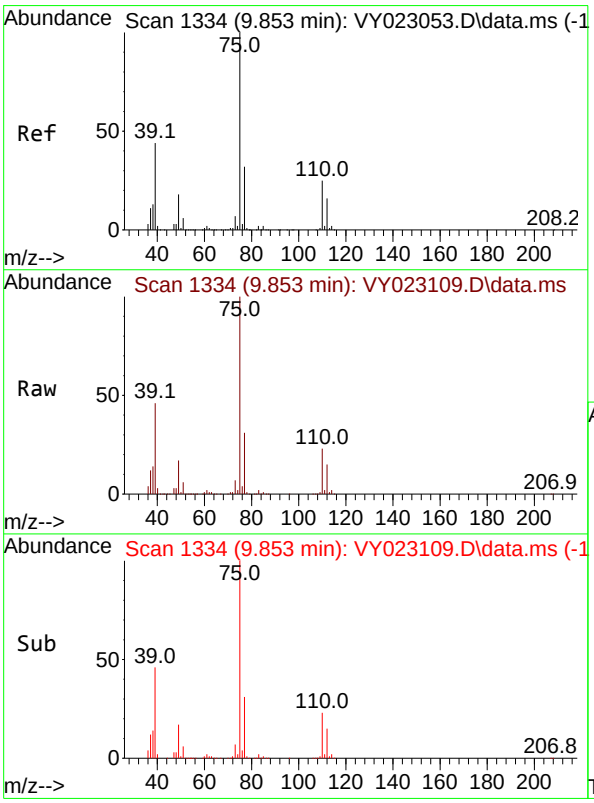
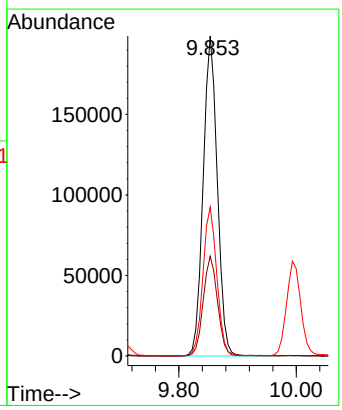
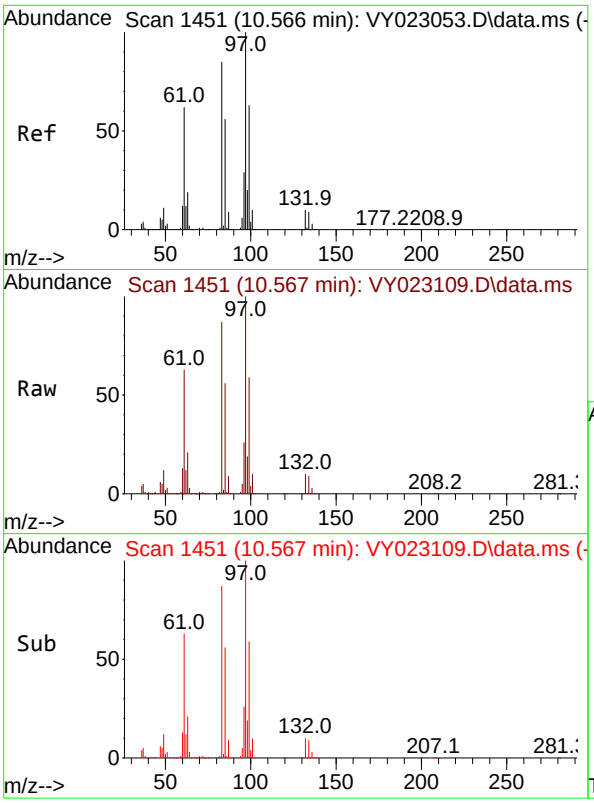


#54
cis-1,3-Dichloropropene
Concen: 48.260 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 333217

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	46.4	35.6	53.4

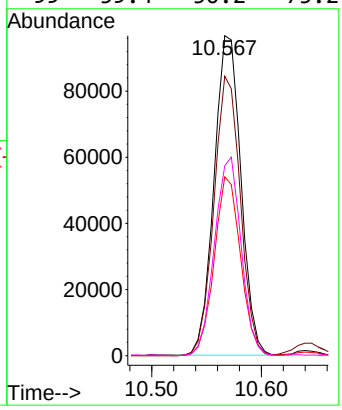




#55
1,1,2-Trichloroethane
Concen: 49.113 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 97 Resp: 16468

Ion	Ratio	Lower	Upper
97	100		
83	87.5	67.7	101.5
85	56.0	44.5	66.7
99	59.4	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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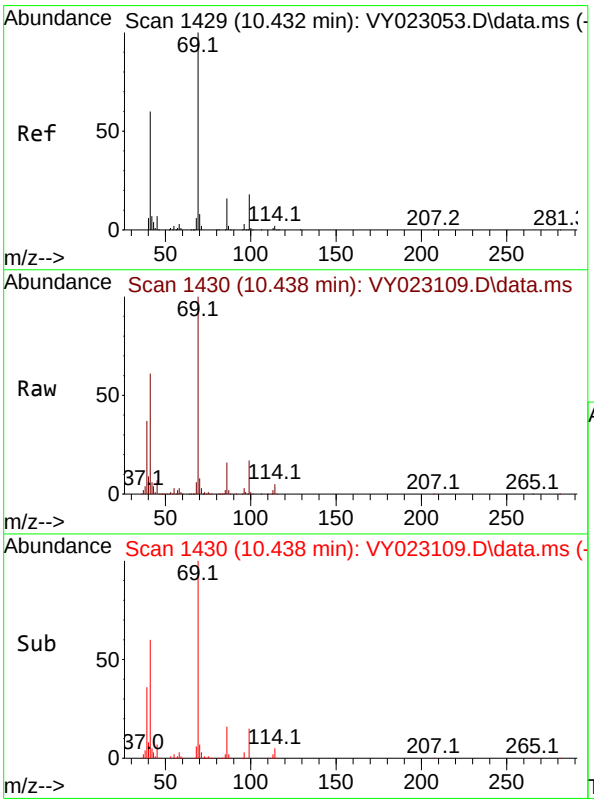
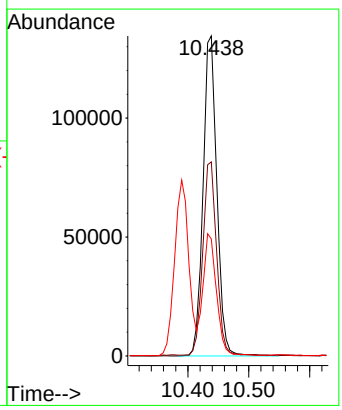
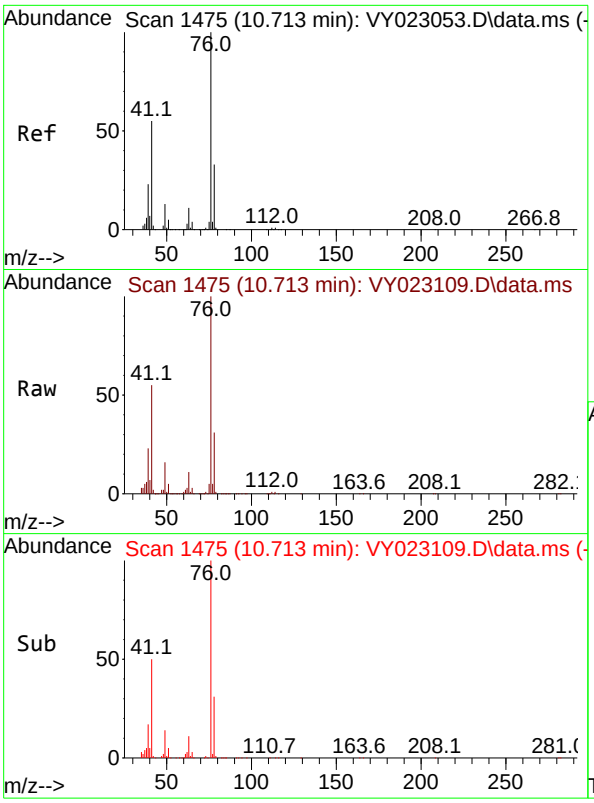


#56
Ethyl methacrylate
Concen: 49.346 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 69 Resp: 211730

Ion	Ratio	Lower	Upper
69	100		
41	60.3	48.6	72.8
39	37.1	27.0	40.4

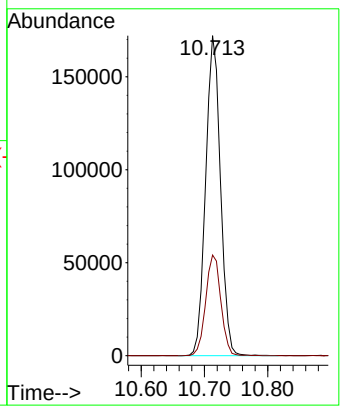




#57
1,3-Dichloropropane
Concen: 49.259 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 76 Resp: 28012

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
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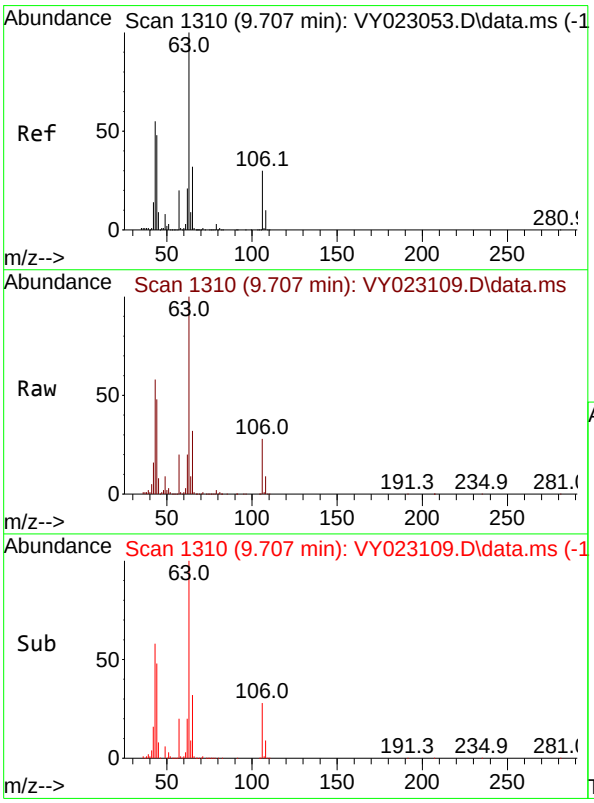
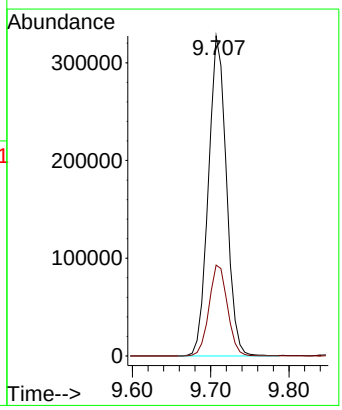
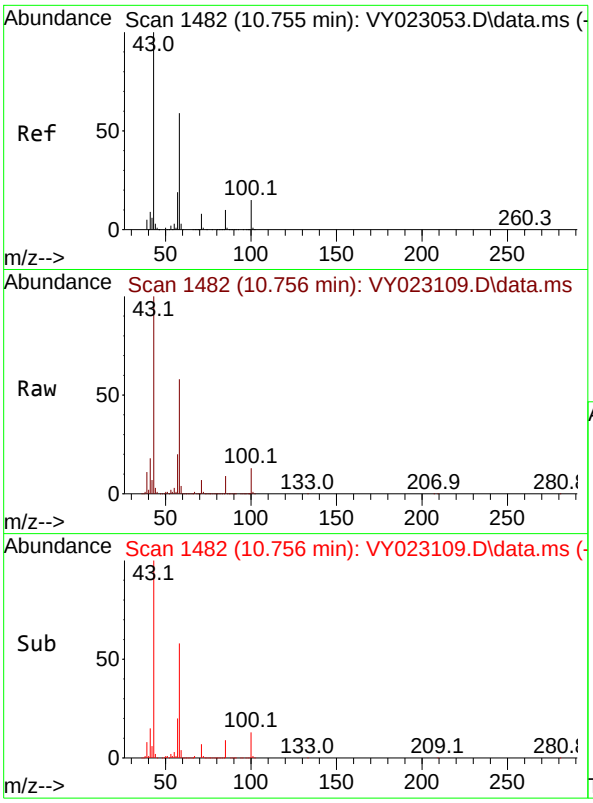


#58
2-Chloroethyl Vinyl ether
Concen: 258.207 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 522597

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.2	34.8





#59
2-Hexanone
Concen: 233.670 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 42900

Ion	Ratio	Lower	Upper
43	100		
58	58.2	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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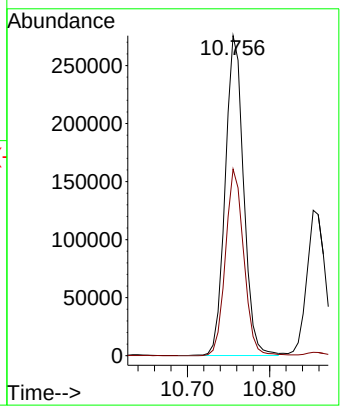
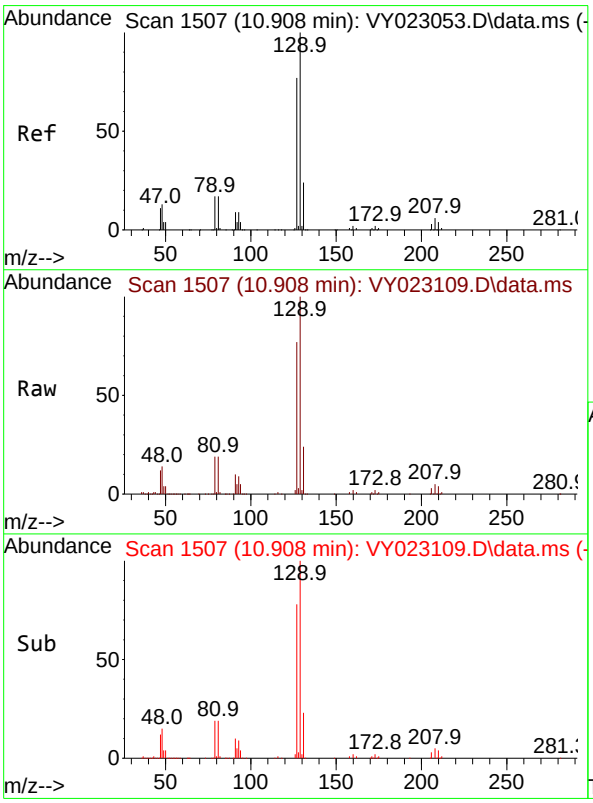
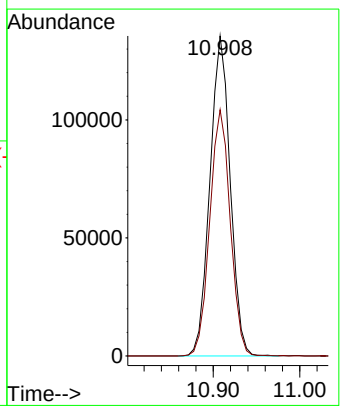


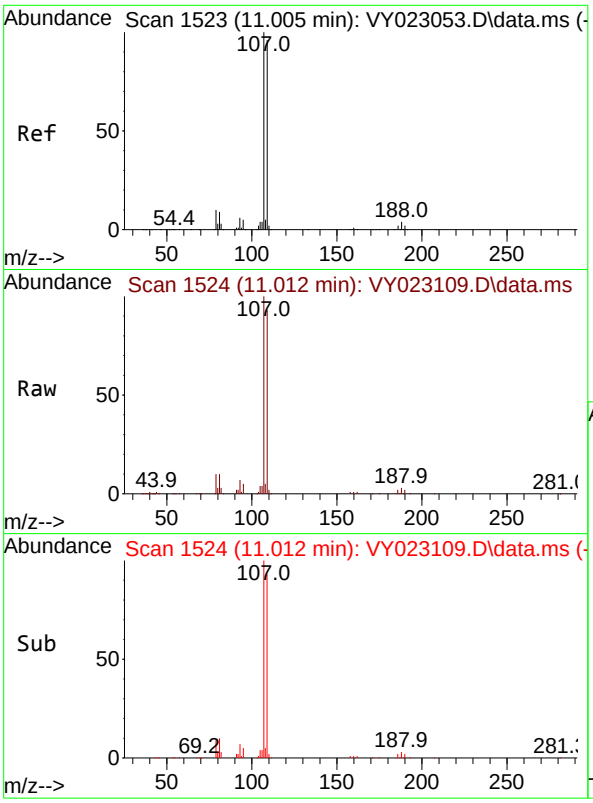


#60
Dibromochloromethane
Concen: 49.847 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:129 Resp: 220549

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.5

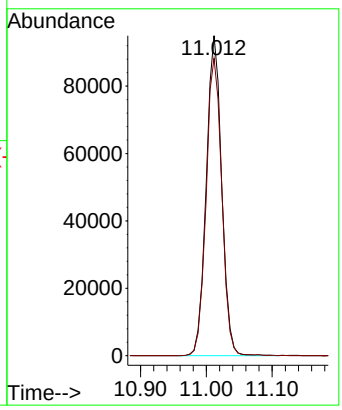




#61
1,2-Dibromoethane
Concen: 49.026 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:107 Resp: 15451

Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.6	113.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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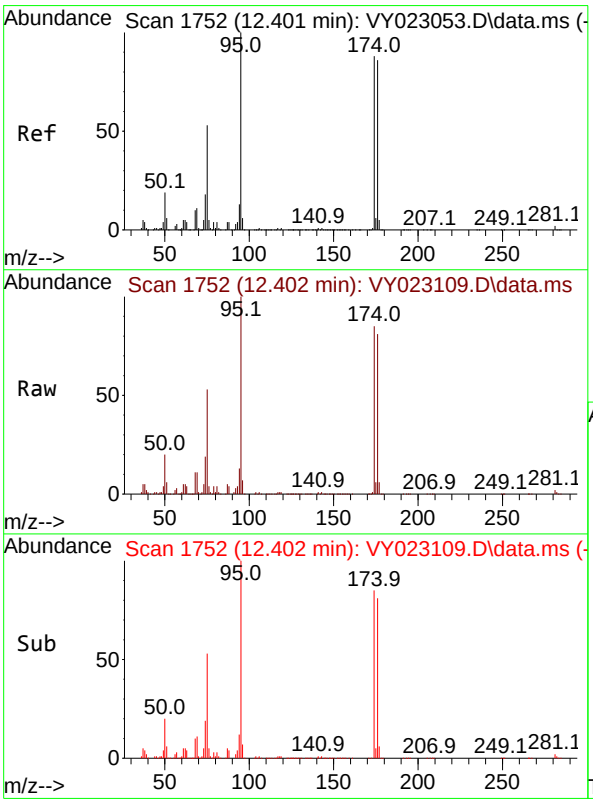
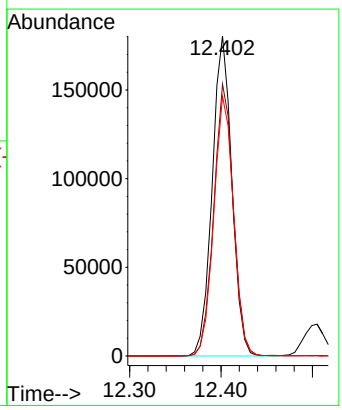
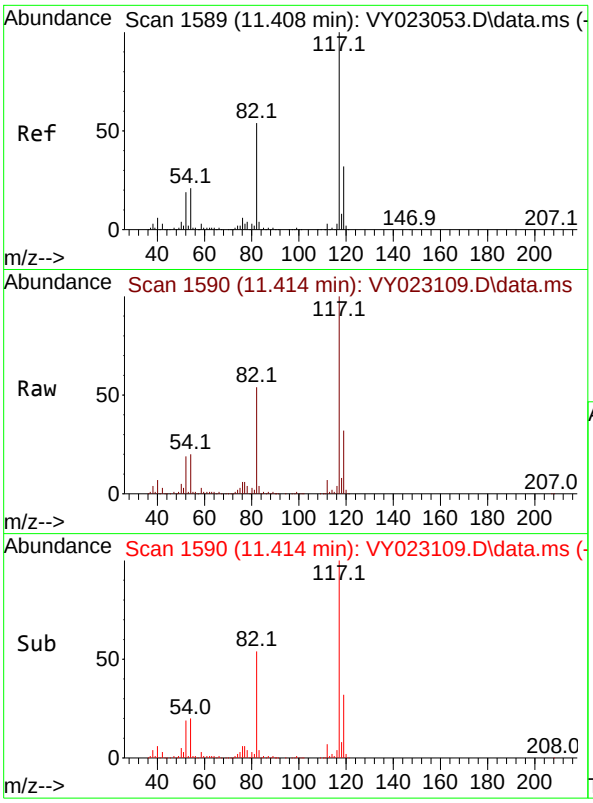


#62
4-Bromofluorobenzene
Concen: 51.660 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 95 Resp: 268864

Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	171.6
176	81.8	0.0	167.6

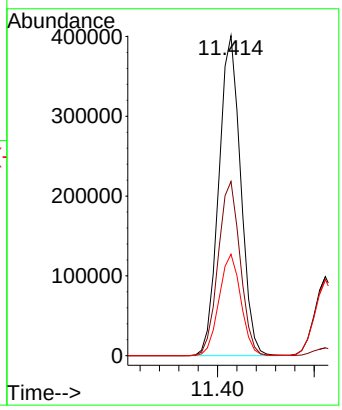




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 62904

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	31.7	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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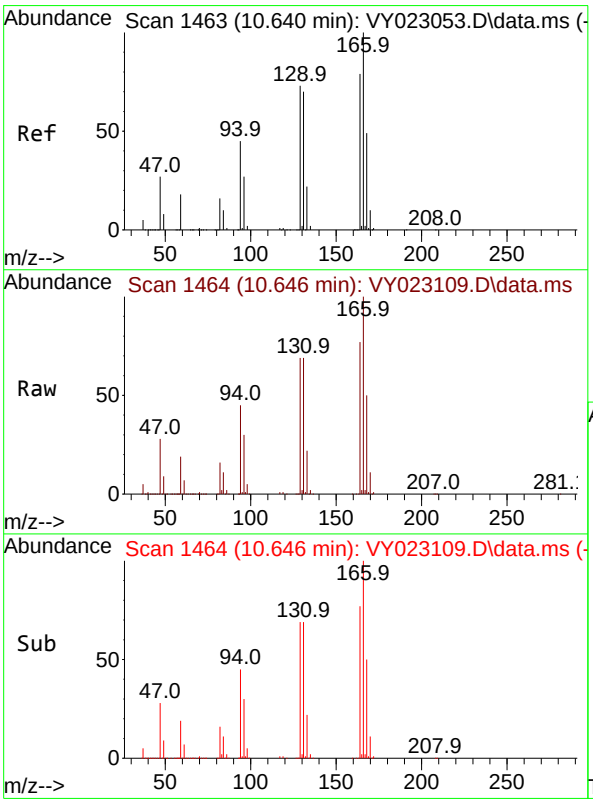
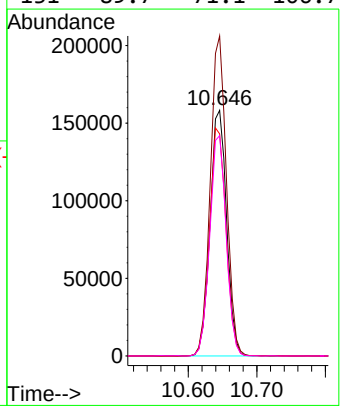
Supervised By :Mahesh Dadoda 08/19/2025

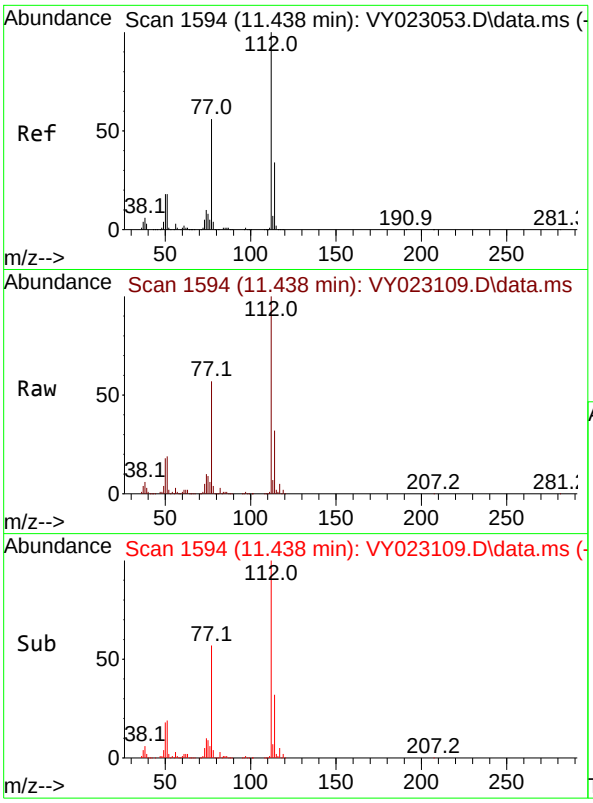


#64
Tetrachloroethene
Concen: 47.178 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:164 Resp: 264997

Ion	Ratio	Lower	Upper
164	100		
166	130.3	101.1	151.7
129	90.4	74.0	111.0
131	89.7	71.1	106.7

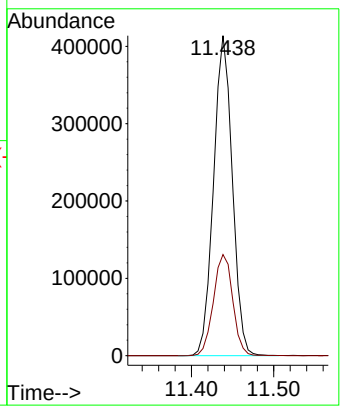




#65
Chlorobenzene
Concen: 48.335 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:112 Resp: 65583

Ion	Ratio	Lower	Upper
112	100		
114	31.6	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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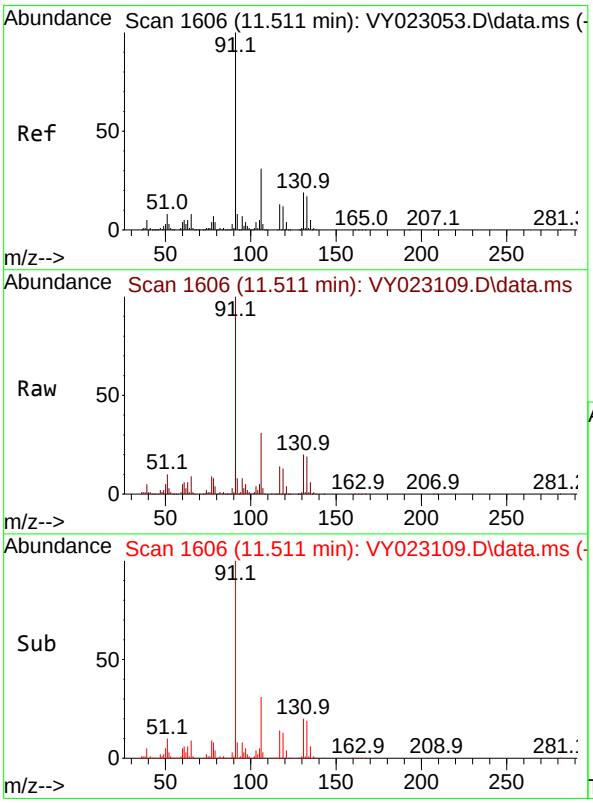
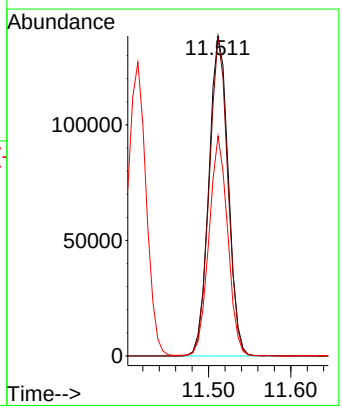
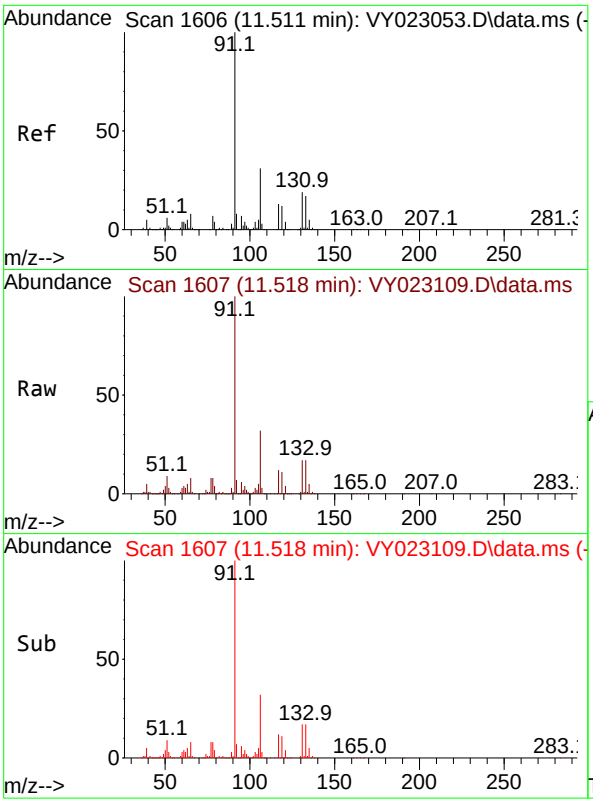


#66
1,1,1,2-Tetrachloroethane
Concen: 49.184 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:131 Resp: 226496

Ion	Ratio	Lower	Upper
131	100		
133	96.0	46.9	140.6
119	66.5	33.2	99.6

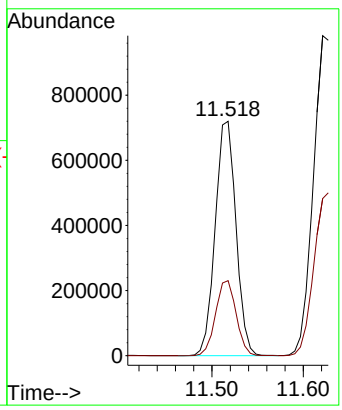




#67
Ethyl Benzene
Concen: 48.775 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 113890

Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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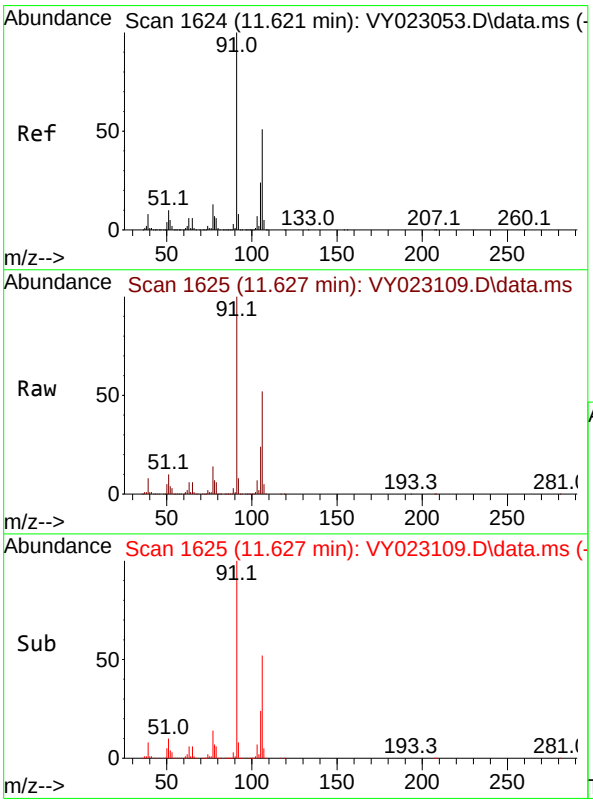
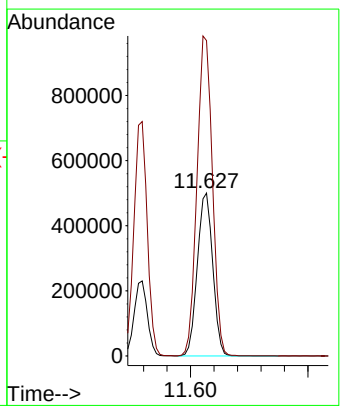
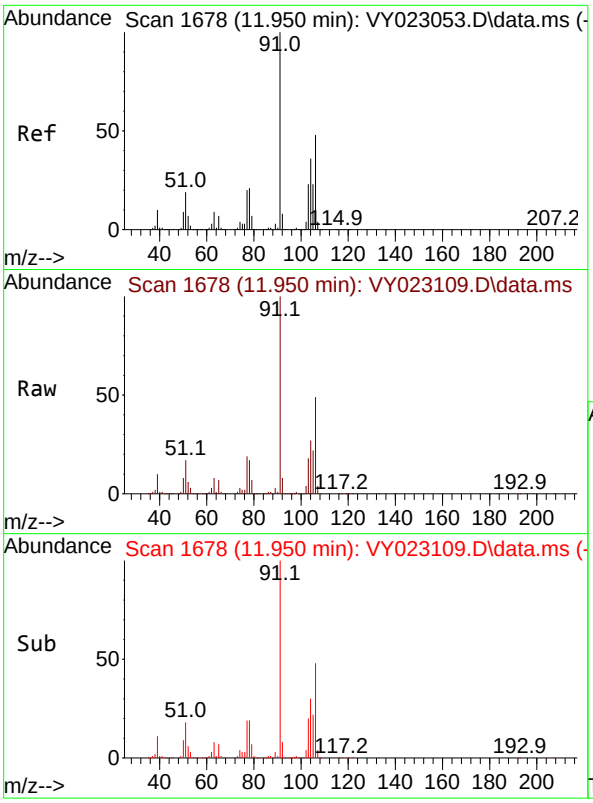


#68
m/p-Xylenes
Concen: 99.829 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:106 Resp: 910415

Ion	Ratio	Lower	Upper
106	100		
91	196.9	158.6	238.0





#69
o-Xylene
Concen: 50.504 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:106 Resp: 43138

Ion	Ratio	Lower	Upper
106	100		
91	204.3	103.2	309.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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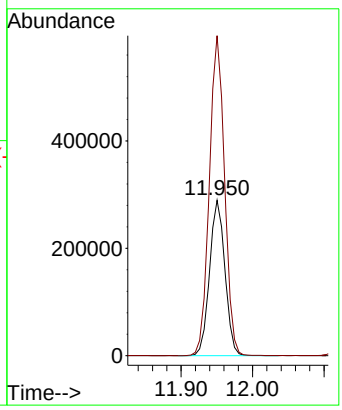
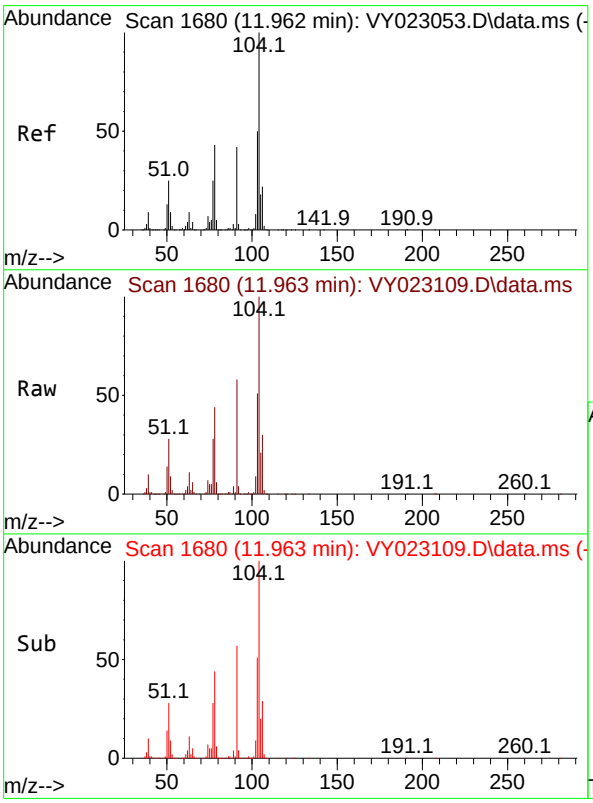
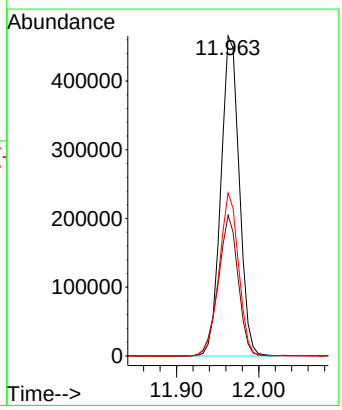


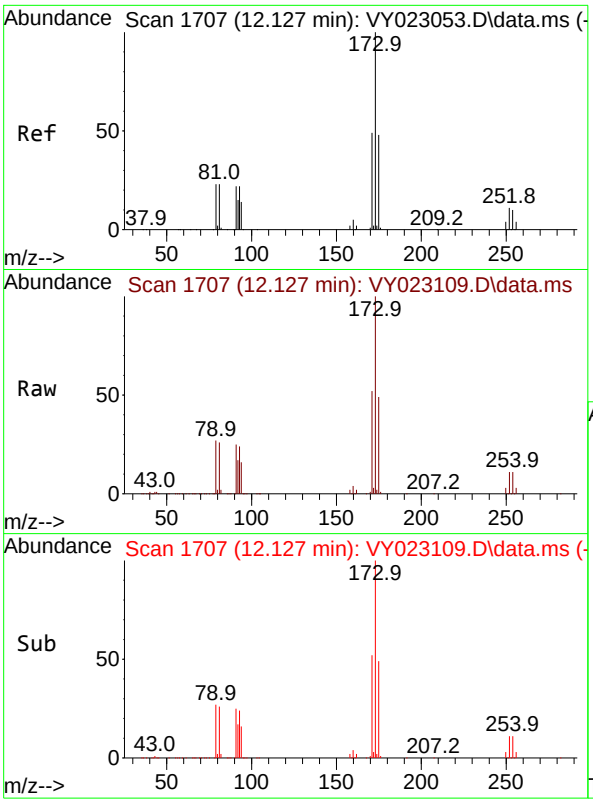


#70
Styrene
Concen: 51.783 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:104 Resp: 723332

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	54.1	43.7	65.5

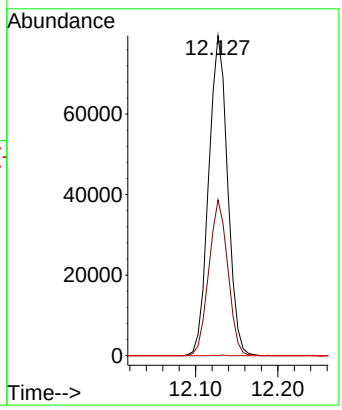




#71
Bromoform
Concen: 47.255 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:173 Resp: 12718

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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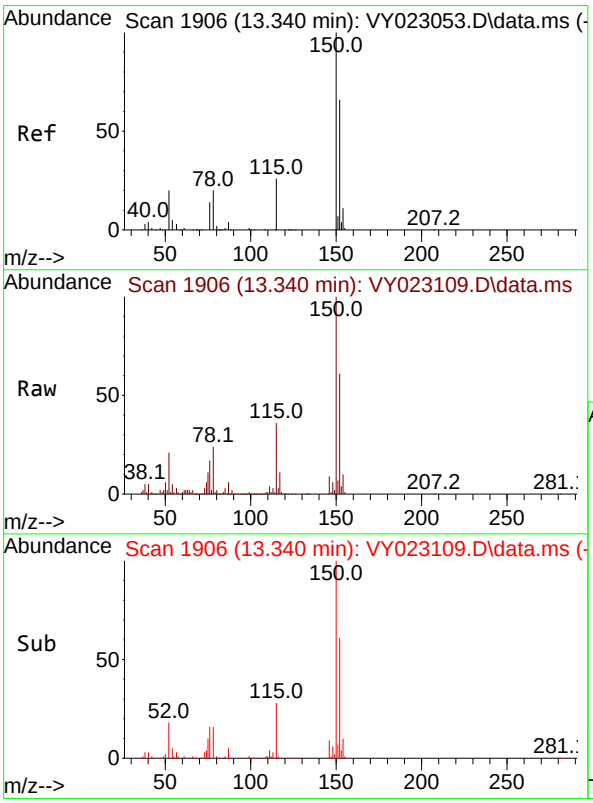
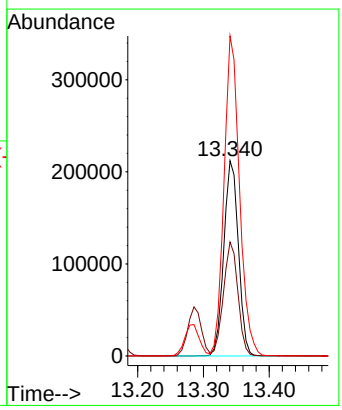
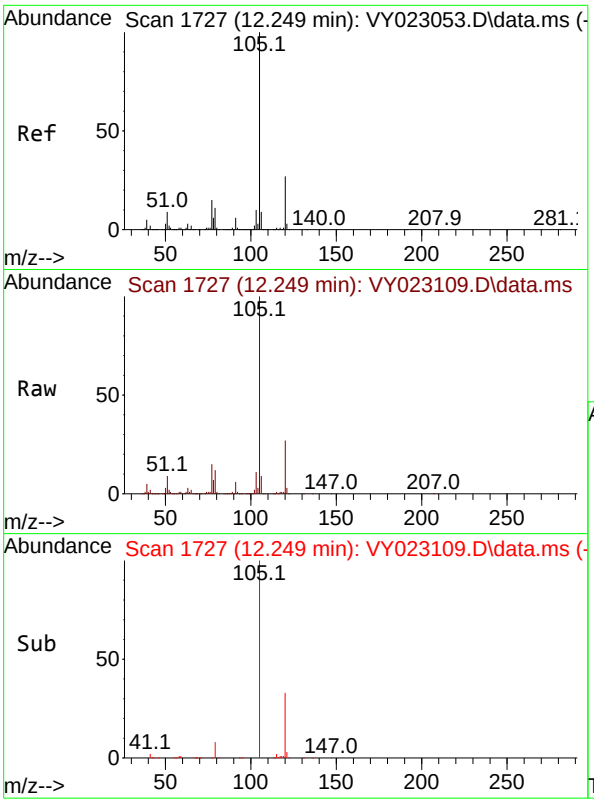


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:152 Resp: 327747

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.2	84.6
150	173.7	0.0	348.0

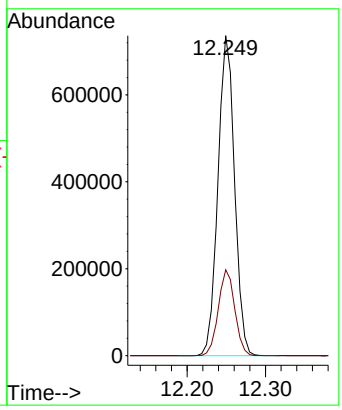




#73
Isopropylbenzene
Concen: 46.938 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 108576

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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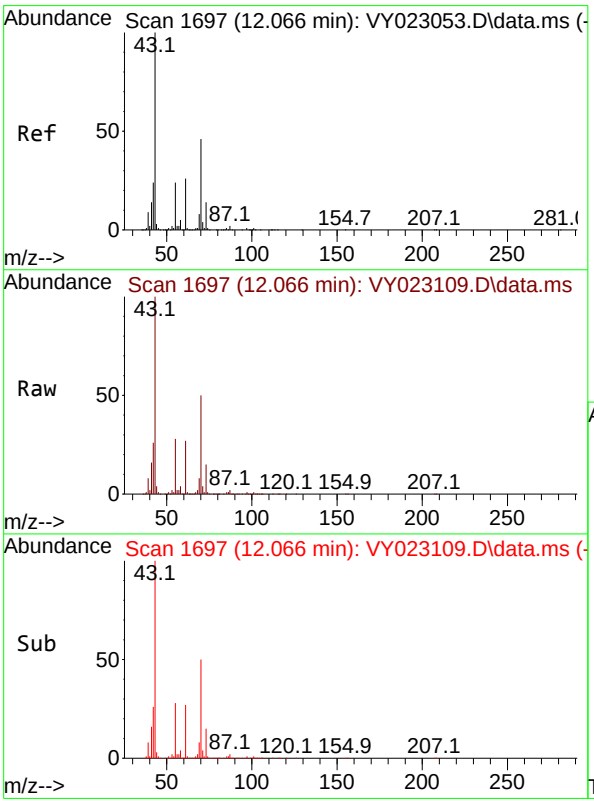
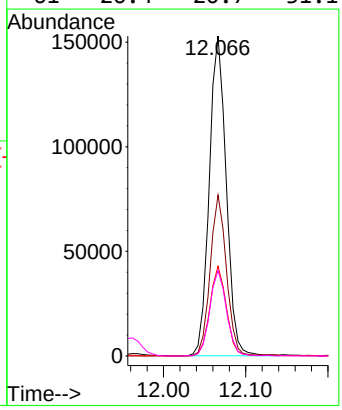
Supervised By :Mahesh Dadoda 08/19/2025

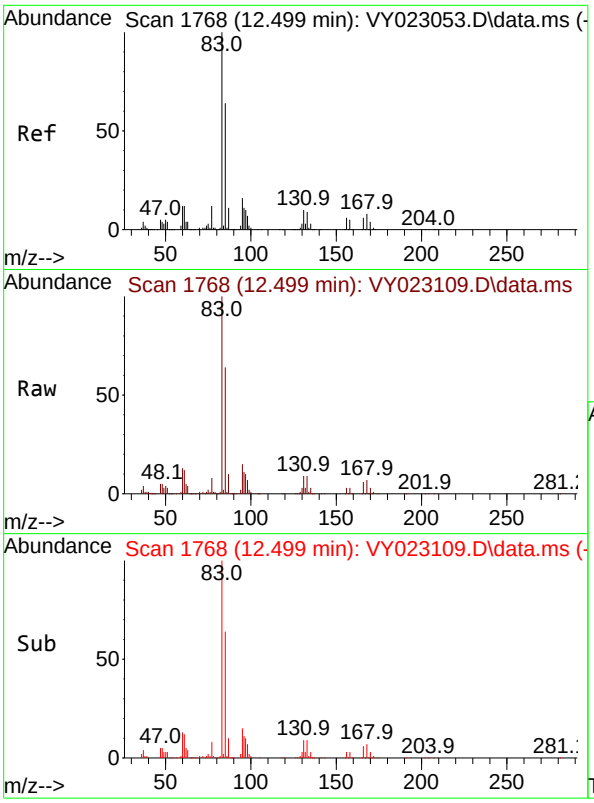


#74
N-amyl acetate
Concen: 44.606 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 218818

Ion	Ratio	Lower	Upper
43	100		
70	48.4	37.5	56.3
55	27.2	20.7	31.1
61	26.4	20.7	31.1

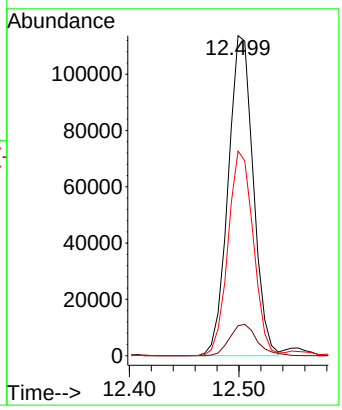




#75
1,1,2,2-Tetrachloroethane
Concen: 45.802 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 18090

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	64.5	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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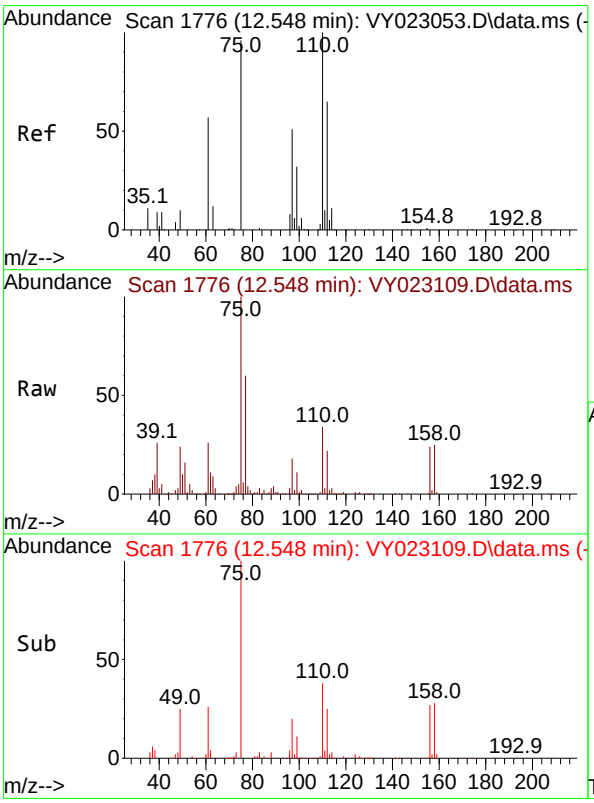
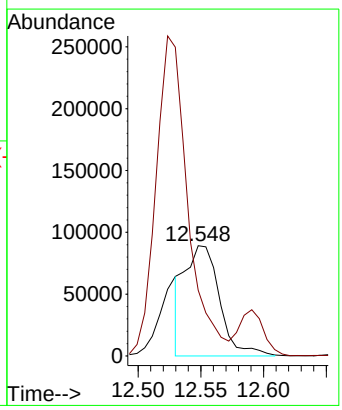
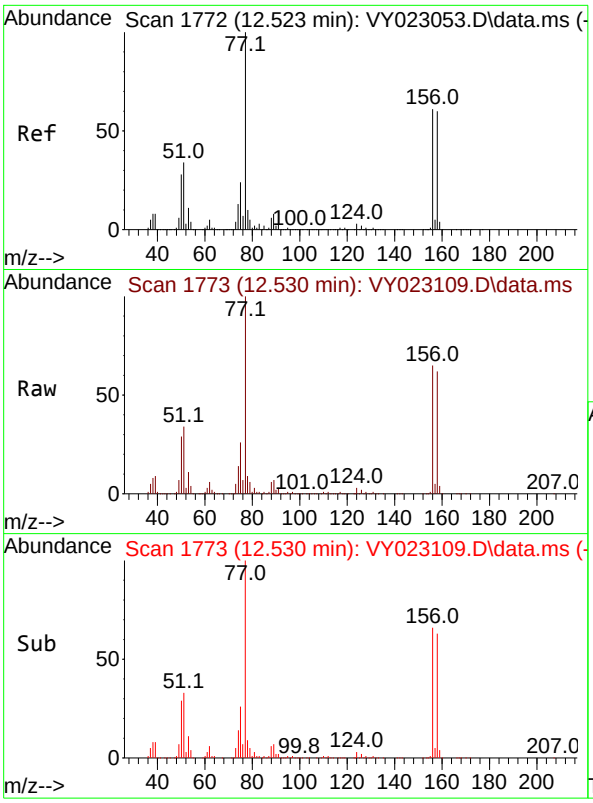


#76
1,2,3-Trichloropropane
Concen: 54.526 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 172472

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

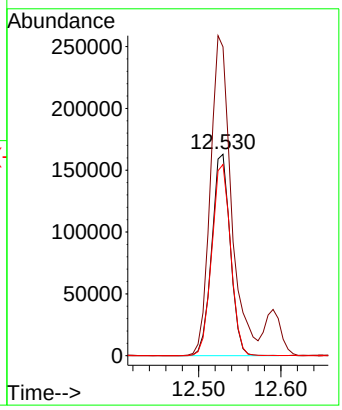




#77
Bromobenzene
Concen: 46.165 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:156 Resp: 25476

Ion	Ratio	Lower	Upper
156	100		
77	179.4	88.1	264.4
158	96.6	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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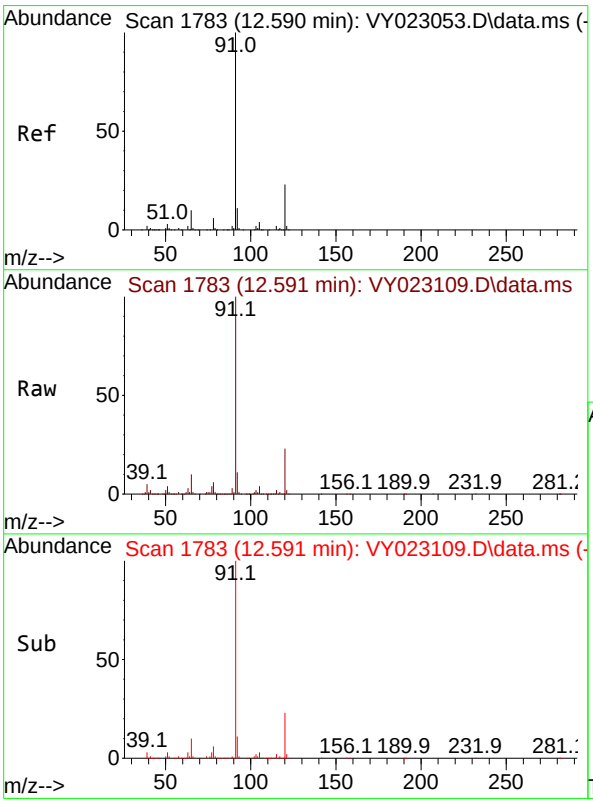
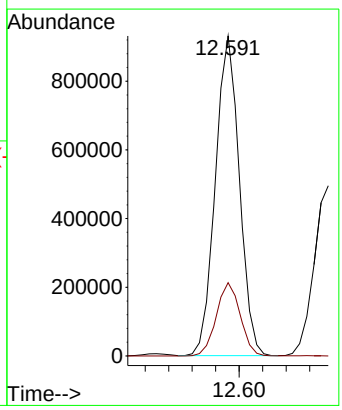
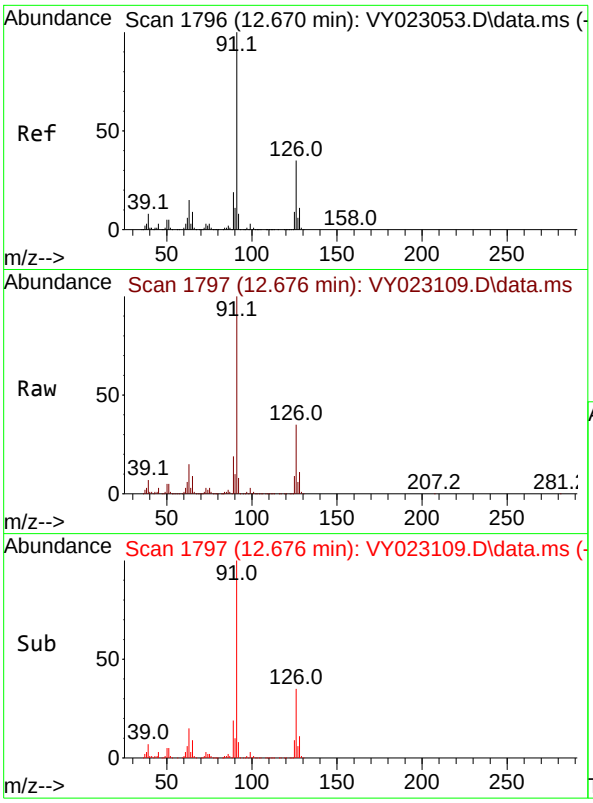


#78
n-propylbenzene
Concen: 47.987 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 1321560

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5





#79
2-Chlorotoluene
Concen: 47.529 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 74998

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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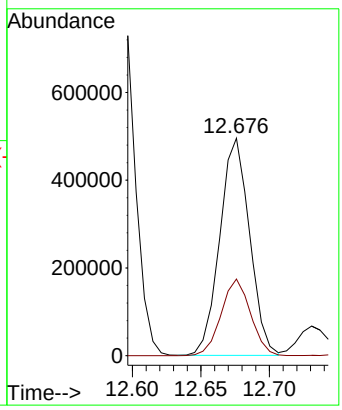
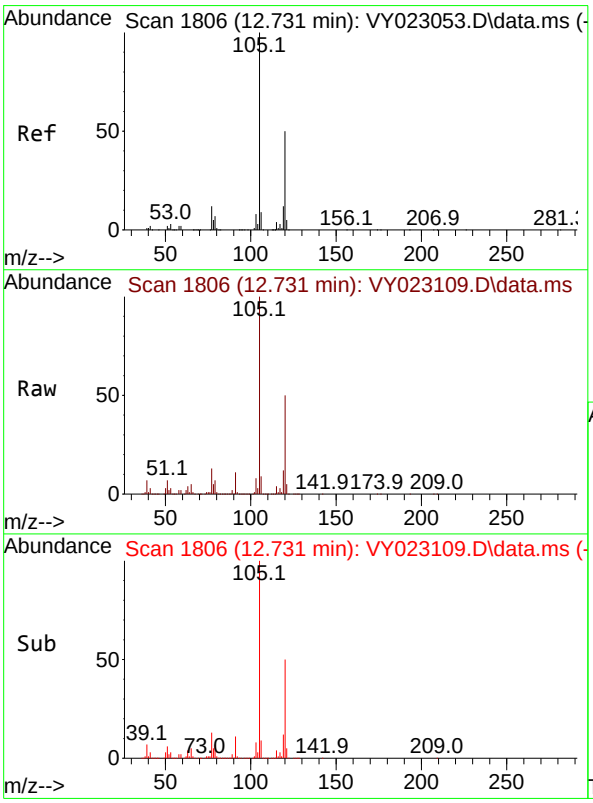
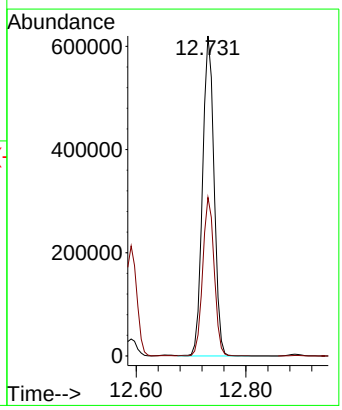


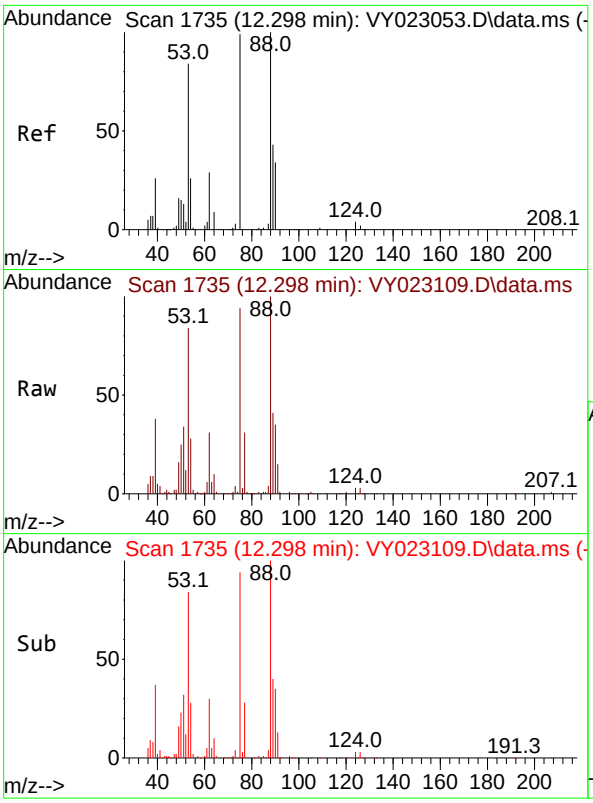


#80
1,3,5-Trimethylbenzene
Concen: 48.207 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 901239

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 39.770 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

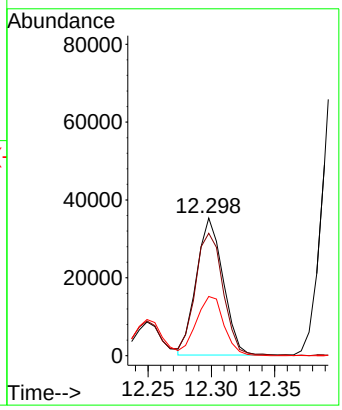
Tgt Ion: 75 Resp: 5196

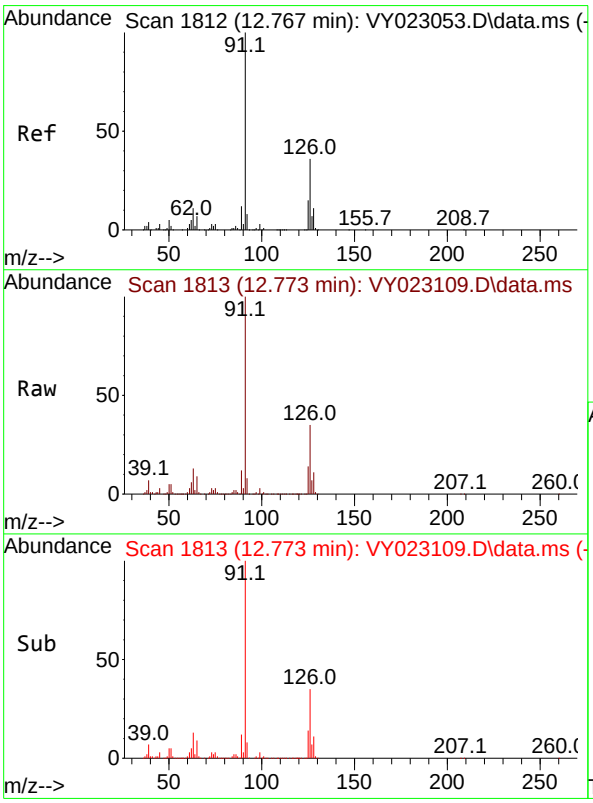
Ion	Ratio	Lower	Upper
75	100		
53	94.6	70.8	106.2
89	44.8	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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

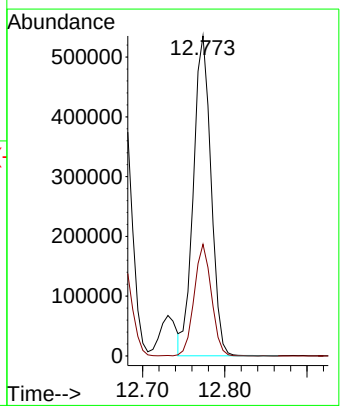


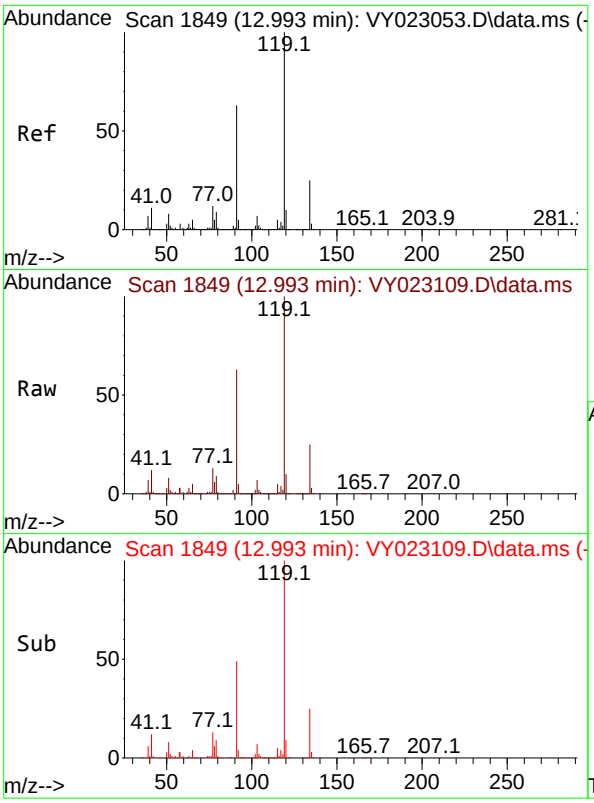


#82
4-Chlorotoluene
Concen: 48.521 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 794254

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.3	52.0

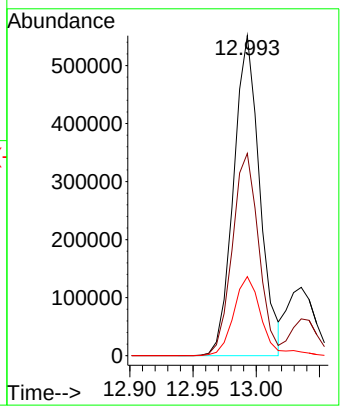




#83
tert-Butylbenzene
Concen: 47.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:119 Resp: 79481

Ion	Ratio	Lower	Upper
119	100		
91	63.6	31.6	94.8
134	26.3	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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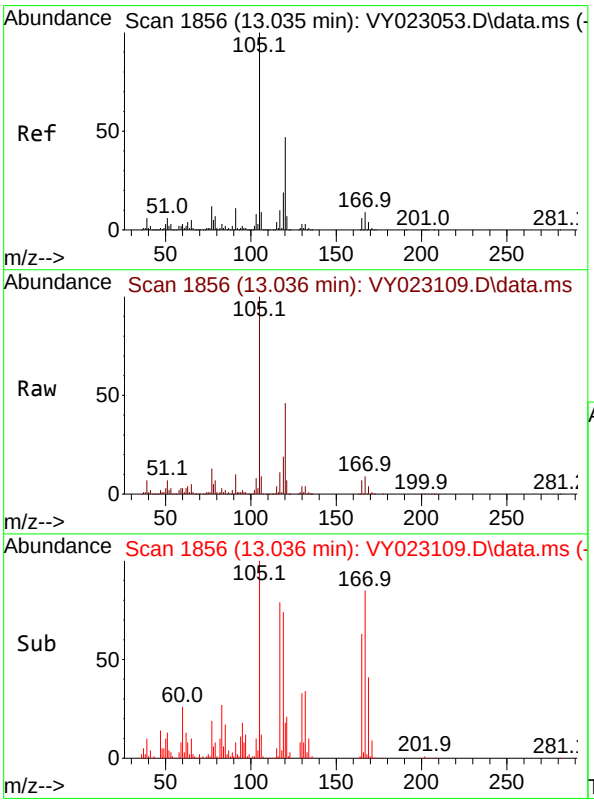
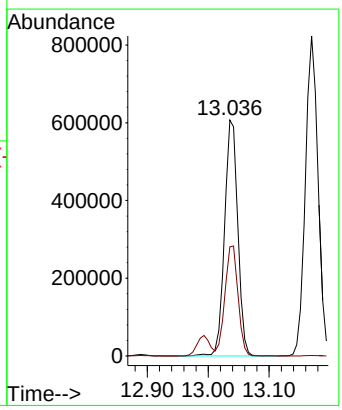
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

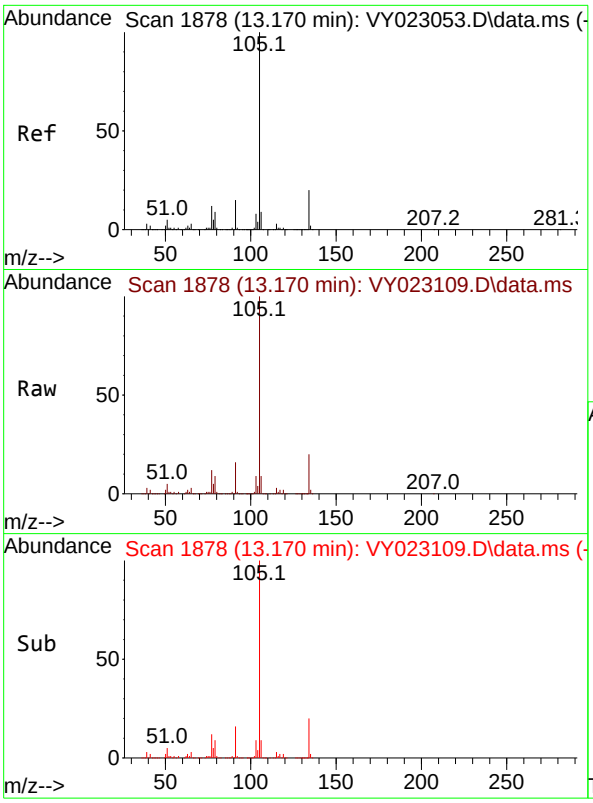


#84
1,2,4-Trimethylbenzene
Concen: 49.211 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 915823

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.0	69.0





#85
sec-Butylbenzene
Concen: 47.812 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 118589

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.2	30.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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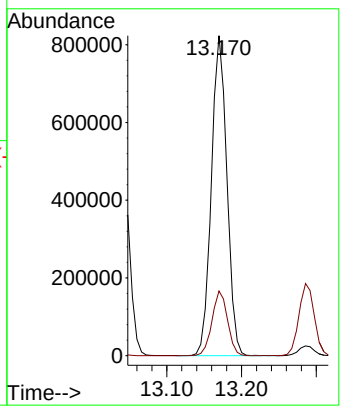
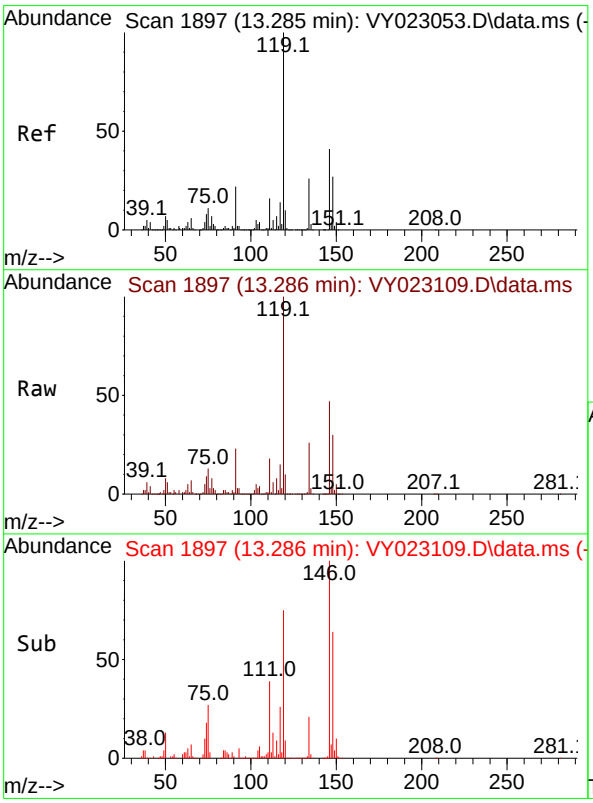
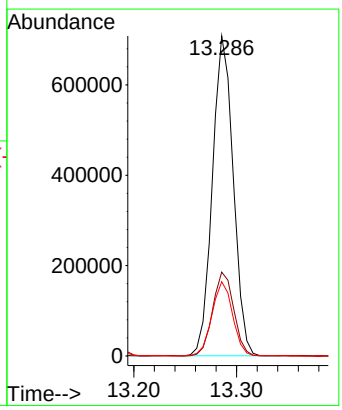


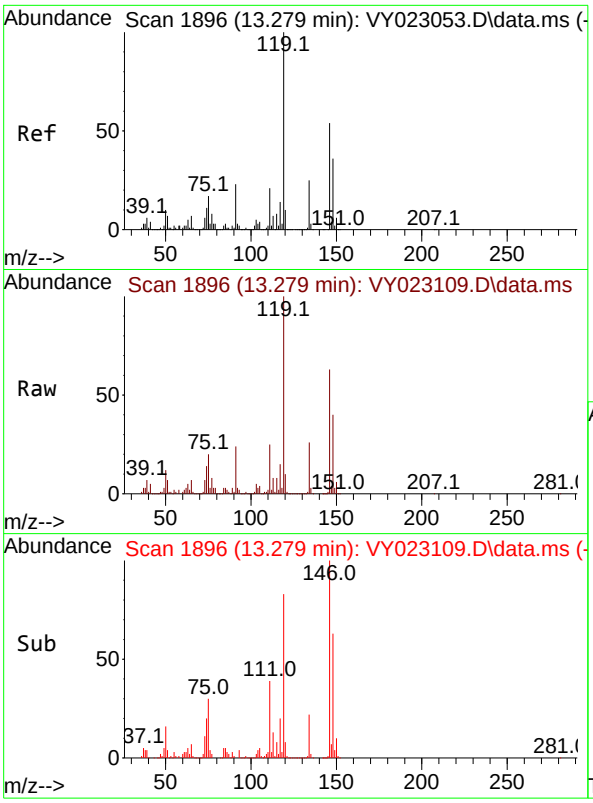


#86
p-Isopropyltoluene
Concen: 48.457 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:119 Resp: 997638

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	23.0	11.3	33.8

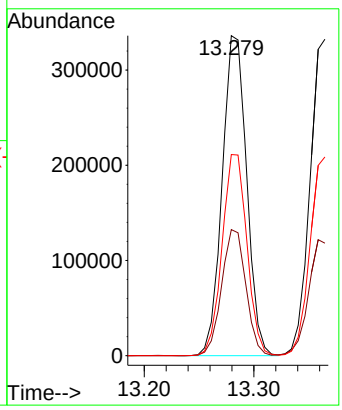




#87
1,3-Dichlorobenzene
Concen: 47.944 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 52176

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	63.8	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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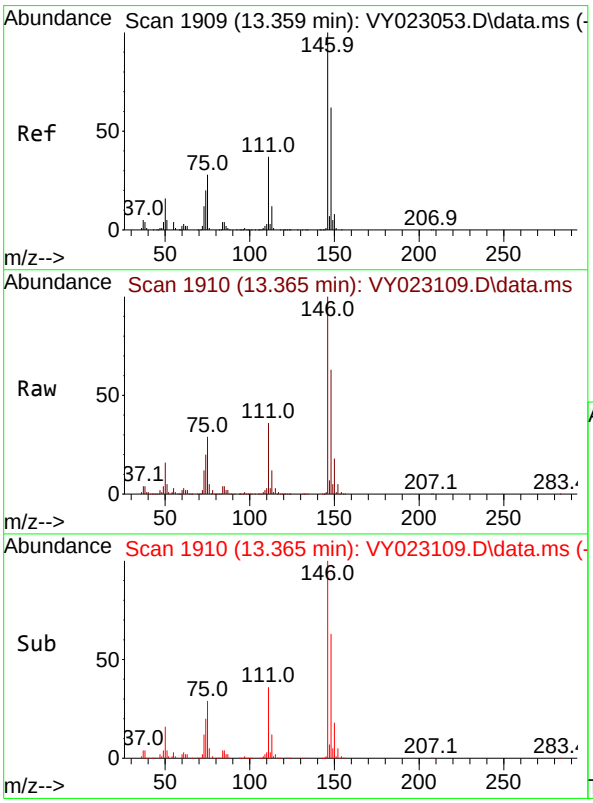
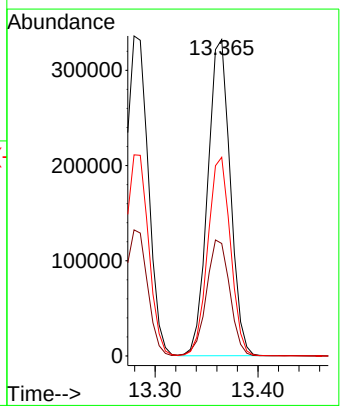
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

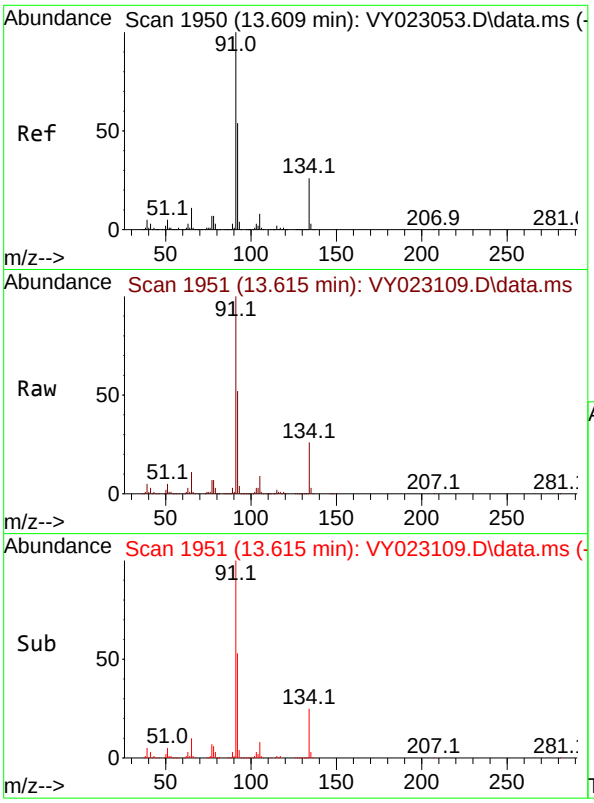


#88
1,4-Dichlorobenzene
Concen: 46.877 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 506066

Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.1
148	63.4	31.6	94.7

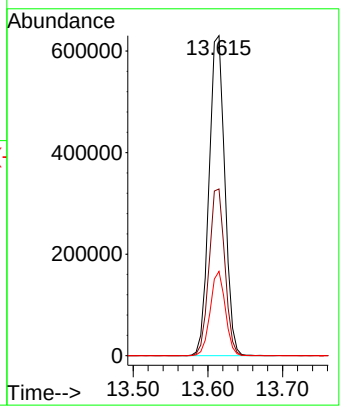




#89
n-Butylbenzene
Concen: 48.761 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 92202

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.7
134	25.2	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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Reviewed By :Semsettin Yesilyurt 08/19/2025
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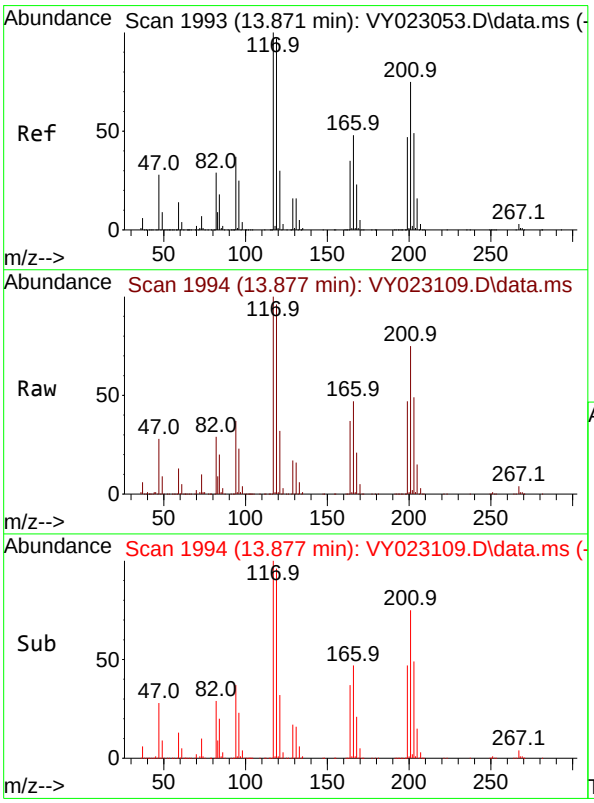
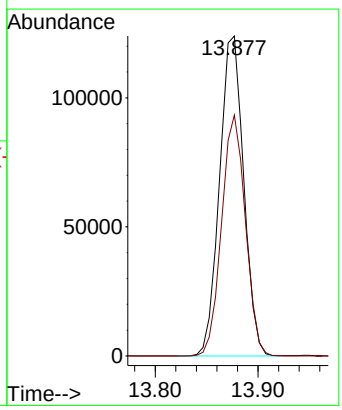
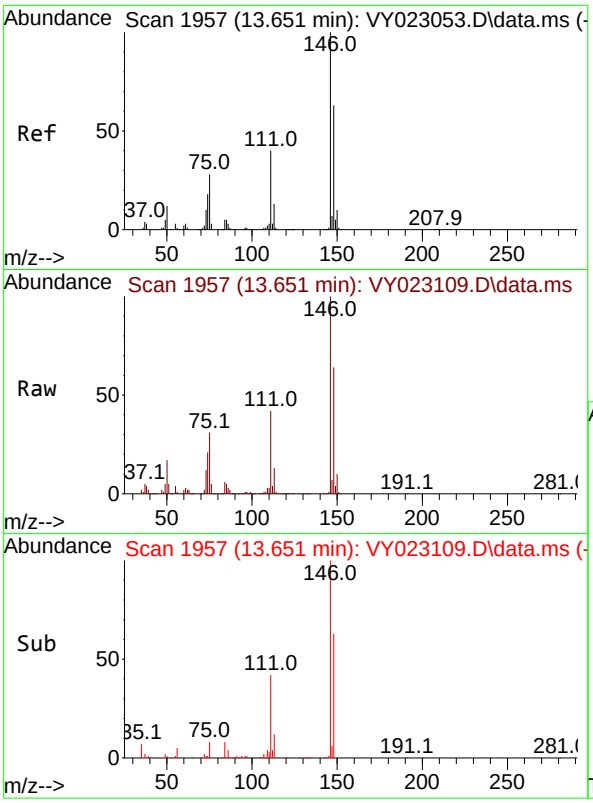


#90
Hexachloroethane
Concen: 47.944 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 202066

Ion	Ratio	Lower	Upper
117	100		
201	74.1	38.4	115.1

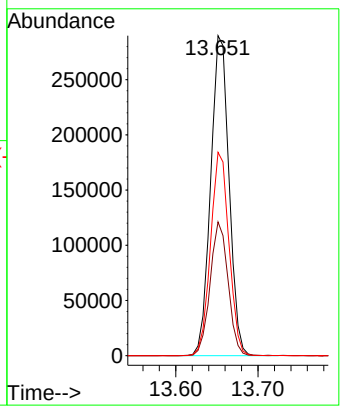




#91
1,2-Dichlorobenzene
Concen: 47.139 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 44990

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.3	60.8
148	63.8	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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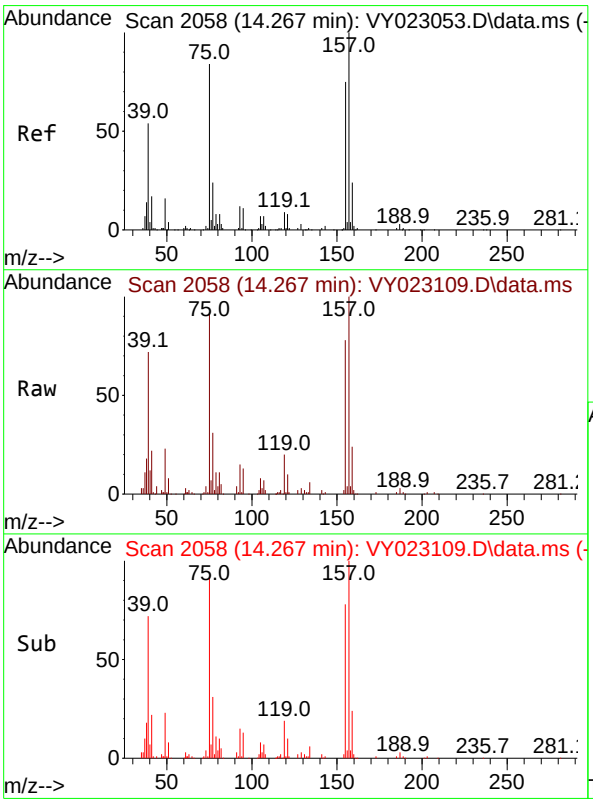
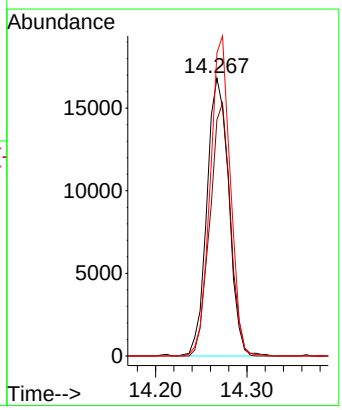
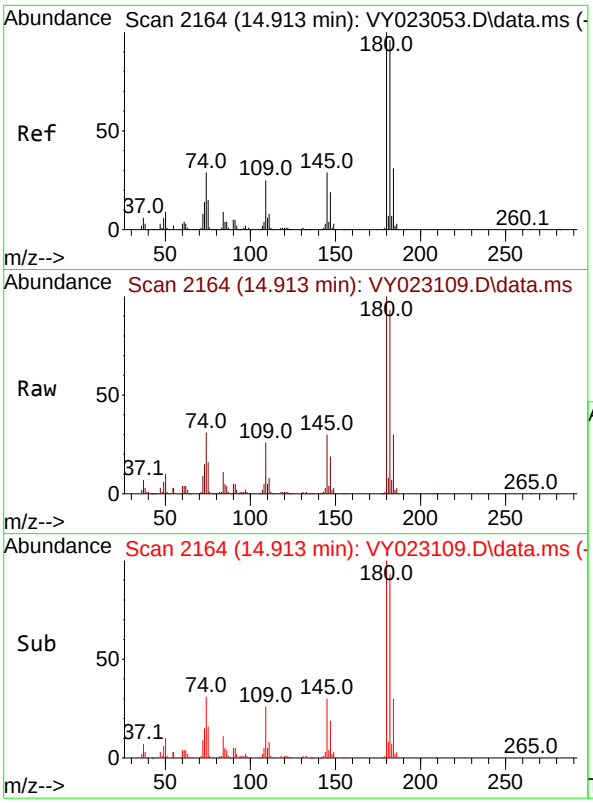


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.509 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 27986

Ion	Ratio	Lower	Upper
75	100		
155	85.1	43.9	131.6
157	105.7	57.2	171.6





#93
1,2,4-Trichlorobenzene
Concen: 44.744 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:180 Resp: 25254

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.8	140.4
145	29.5	14.4	43.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

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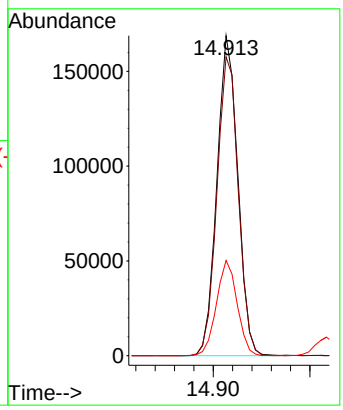
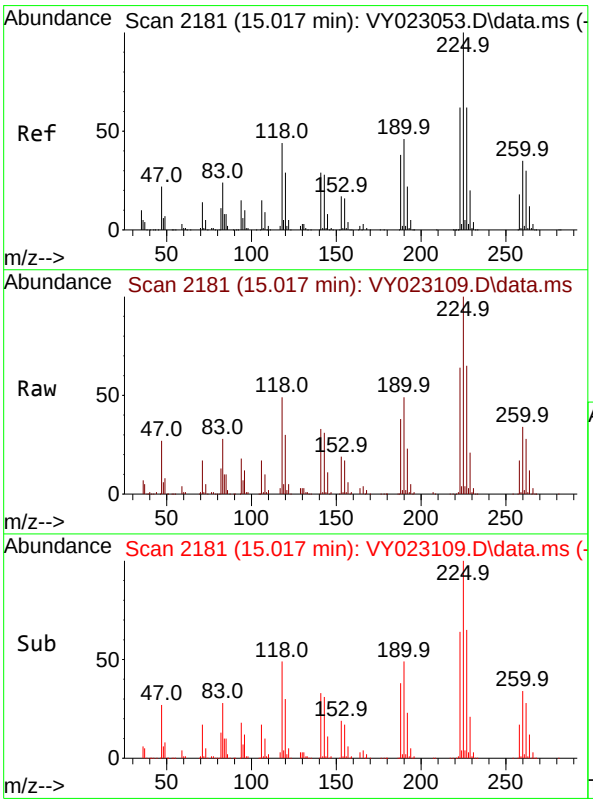
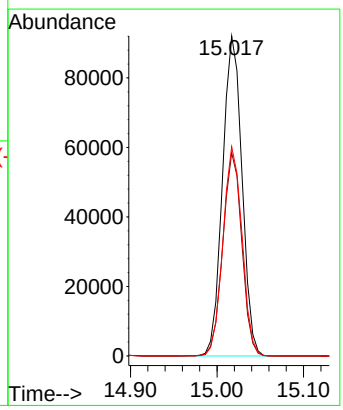


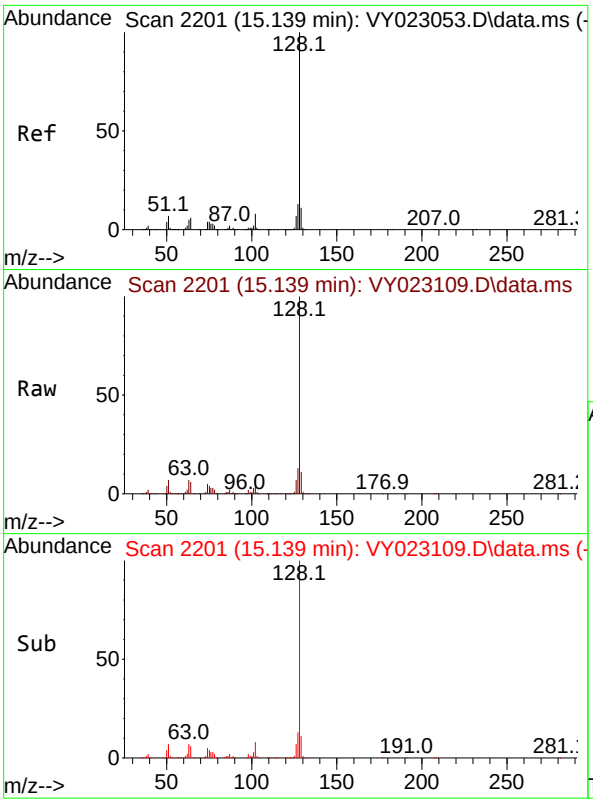


#94
Hexachlorobutadiene
Concen: 43.304 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:225 Resp: 143621

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.3	93.8
227	64.1	31.5	94.5

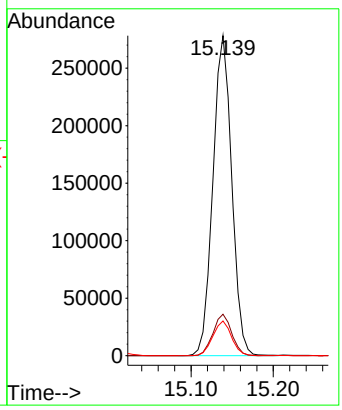




#95
Naphthalene
Concen: 46.067 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:128 Resp: 44336

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.8	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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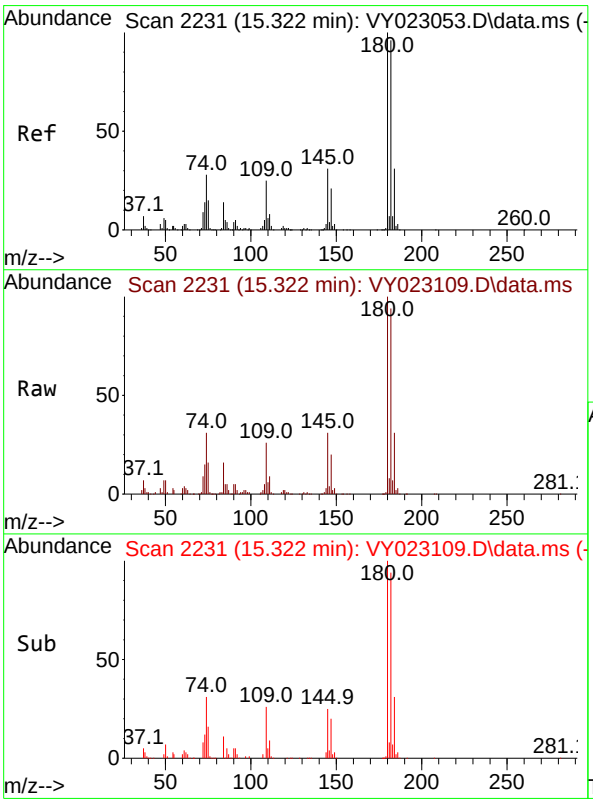
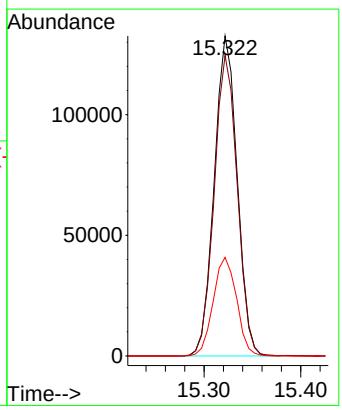


#96
1,2,3-Trichlorobenzene
Concen: 44.896 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:180 Resp: 218352

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.9	143.7
145	31.4	15.9	47.7



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Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
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 01:32:33 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	77	0.00
2	T	Dichlorodifluoromethane	0.408	0.306	25.0	68	0.00
3	P	Chloromethane	0.661	0.669	-1.2	85	0.00
4	C	Vinyl Chloride	0.817	0.871	-6.6#	87	0.00
5	T	Bromomethane	0.610	0.684	-12.1	98	0.00
6	T	Chloroethane	0.543	0.616	-13.4	92	0.00
7	T	Trichlorofluoromethane	0.994	0.944	5.0	78	0.00
8	T	Diethyl Ether	0.263	0.246	6.5	76	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.490	0.445	9.2	74	0.01
10	T	Methyl Iodide	0.529	0.553	-4.5	78	0.00
11	T	Tert butyl alcohol	0.033	0.029	12.1	70	0.00
12	CM	1,1-Dichloroethene	0.482	0.449	6.8#	75	0.00
13	T	Acrolein	0.048	0.029	39.6#	49#	0.00
14	T	Allyl chloride	0.709	0.651	8.2	73	0.00
15	T	Acrylonitrile	0.107	0.103	3.7	75	0.00
16	T	Acetone	0.103	0.075	27.2#	56	0.01
17	T	Carbon Disulfide	1.571	1.453	7.5	75	0.00
18	T	Methyl Acetate	0.307	0.317	-3.3	76	0.00
19	T	Methyl tert-butyl Ether	1.249	1.233	1.3	77	0.00
20	T	Methylene Chloride	0.620	0.545	12.1	82	0.01
21	T	trans-1,2-Dichloroethene	0.541	0.528	2.4	78	0.01
22	T	Diisopropyl ether	1.541	1.556	-1.0	79	0.00
23	T	Vinyl Acetate	0.852	0.811	4.8	74	0.00
24	P	1,1-Dichloroethane	0.942	0.954	-1.3	80	0.00
25	T	2-Butanone	0.140	0.124	11.4	67	0.01
26	T	2,2-Dichloropropane	0.813	0.679	16.5	66	0.00
27	T	cis-1,2-Dichloroethene	0.626	0.631	-0.8	80	0.00
28	T	Bromochloromethane	0.374	0.376	-0.5	80	0.00
29	T	Tetrahydrofuran	0.087	0.082	5.7	73	0.00
30	C	Chloroform	0.971	1.010	-4.0#	83	0.00
31	T	Cyclohexane	0.888	0.781	12.0	74	0.00
32	T	1,1,1-Trichloroethane	0.862	0.864	-0.2	80	0.00
33	S	1,2-Dichloroethane-d4	0.477	0.514	-7.8	86	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35	S	Dibromofluoromethane	0.299	0.303	-1.3	84	0.00
36	T	1,1-Dichloropropene	0.445	0.420	5.6	78	0.00
37	T	Ethyl Acetate	0.187	0.171	8.6	74	0.00
38	T	Carbon Tetrachloride	0.483	0.455	5.8	79	0.00
39	T	Methylcyclohexane	0.586	0.539	8.0	77	0.00
40	TM	Benzene	1.370	1.362	0.6	82	0.00
41	T	Methacrylonitrile	0.108	0.092	14.8	68	0.00
42	TM	1,2-Dichloroethane	0.356	0.355	0.3	83	0.00
43	T	Isopropyl Acetate	0.378	0.354	6.3	77	0.00
44	TM	Trichloroethene	0.354	0.336	5.1	80	0.00
45	C	1,2-Dichloropropane	0.315	0.317	-0.6#	83	0.00
46	T	Dibromomethane	0.181	0.182	-0.6	82	0.00
47	T	Bromodichloromethane	0.466	0.478	-2.6	84	0.00
48	T	Methyl methacrylate	0.181	0.168	7.2	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
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 01:32:33 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	78	0.00
50	S	Toluene-d8	1.169	1.191	-1.9	84	0.00
51	T	4-Methyl-2-Pentanone	0.195	0.187	4.1	76	0.00
52	CM	Toluene	0.870	0.879	-1.0#	83	0.00
53	T	t-1,3-Dichloropropene	0.422	0.405	4.0	78	0.00
54	T	cis-1,3-Dichloropropene	0.499	0.481	3.6	78	0.00
55	T	1,1,2-Trichloroethane	0.242	0.238	1.7	81	0.00
56	T	Ethyl methacrylate	0.310	0.306	1.3	77	0.00
57	T	1,3-Dichloropropane	0.411	0.405	1.5	81	0.00
58	T	2-Chloroethyl Vinyl ether	0.146	0.151	-3.4	79	0.00
59	T	2-Hexanone	0.133	0.124	6.8	73	0.00
60	T	Dibromochloromethane	0.320	0.319	0.3	81	0.00
61	T	1,2-Dibromoethane	0.228	0.223	2.2	80	0.00
62	S	4-Bromofluorobenzene	0.376	0.388	-3.2	85	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64	T	Tetrachloroethene	0.446	0.421	5.6	81	0.00
65	PM	Chlorobenzene	1.079	1.043	3.3	83	0.00
66	T	1,1,1,2-Tetrachloroethane	0.366	0.360	1.6	83	0.00
67	C	Ethyl Benzene	1.856	1.811	2.4#	81	0.00
68	T	m/p-Xylenes	0.725	0.724	0.1	84	0.00
69	T	o-Xylene	0.679	0.686	-1.0	84	0.00
70	T	Styrene	1.110	1.150	-3.6	86	0.00
71	P	Bromoform	0.214	0.202	5.6	79	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	3.529	3.313	6.1	82	0.00
74	T	N-amyl acetate	0.748	0.668	10.7	75	0.00
75	P	1,1,2,2-Tetrachloroethane	0.603	0.552	8.5	82	0.00
76	T	1,2,3-Trichloropropane	0.483	0.526	-8.9	85	0.00
77	T	Bromobenzene	0.842	0.777	7.7	81	0.00
78	T	n-propylbenzene	4.201	4.032	4.0	83	0.00
79	T	2-Chlorotoluene	2.407	2.288	4.9	83	0.00
80	T	1,3,5-Trimethylbenzene	2.852	2.750	3.6	83	0.00
81	T	trans-1,4-Dichloro-2-butene	0.199	0.159	20.1	70	0.00
82	T	4-Chlorotoluene	2.497	2.423	3.0	85	0.00
83	T	tert-Butylbenzene	2.576	2.425	5.9	81	0.00
84	T	1,2,4-Trimethylbenzene	2.839	2.794	1.6	85	0.00
85	T	sec-Butylbenzene	3.784	3.618	4.4	83	0.00
86	T	p-Isopropyltoluene	3.141	3.044	3.1	83	0.00
87	T	1,3-Dichlorobenzene	1.660	1.592	4.1	86	0.00
88	T	1,4-Dichlorobenzene	1.647	1.544	6.3	84	0.00
89	T	n-Butylbenzene	2.885	2.813	2.5	84	0.00
90	T	Hexachloroethane	0.643	0.617	4.0	85	0.00
91	T	1,2-Dichlorobenzene	1.456	1.373	5.7	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.094	0.085	9.6	78	0.00
93	T	1,2,4-Trichlorobenzene	0.861	0.771	10.5	79	0.00
94	T	Hexachlorobutadiene	0.506	0.438	13.4	77	0.00
95	T	Naphthalene	1.468	1.353	7.8	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
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 01:32:33 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	0.666	10.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
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 01:32:33 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	77	0.00
2	T	Dichlorodifluoromethane	50.000	37.436	25.1#	68	0.00
3	P	Chloromethane	50.000	50.612	-1.2	85	0.00
4	C	Vinyl Chloride	50.000	53.299	-6.6#	87	0.00
5	T	Bromomethane	50.000	56.056	-12.1	98	0.00
6	T	Chloroethane	50.000	56.698	-13.4	92	0.00
7	T	Trichlorofluoromethane	50.000	47.526	4.9	78	0.00
8	T	Diethyl Ether	50.000	46.826	6.3	76	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.401	9.2	74	0.01
10	T	Methyl Iodide	50.000	52.294	-4.6	78	0.00
11	T	Tert butyl alcohol	250.000	219.404	12.2	70	0.00
12	CM	1,1-Dichloroethene	50.000	46.597	6.8#	75	0.00
13	T	Acrolein	250.000	150.160	39.9#	49	0.00
14	T	Allyl chloride	50.000	45.884	8.2	73	0.00
15	T	Acrylonitrile	250.000	241.303	3.5	75	0.00
16	T	Acetone	250.000	182.326	27.1#	56	0.01
17	T	Carbon Disulfide	50.000	46.257	7.5	75	0.00
18	T	Methyl Acetate	50.000	51.627	-3.3	76	0.00
19	T	Methyl tert-butyl Ether	50.000	49.373	1.3	77	0.00
20	T	Methylene Chloride	50.000	50.830	-1.7	82	0.01
21	T	trans-1,2-Dichloroethene	50.000	48.739	2.5	78	0.01
22	T	Diisopropyl ether	50.000	50.509	-1.0	79	0.00
23	T	Vinyl Acetate	250.000	238.003	4.8	74	0.00
24	P	1,1-Dichloroethane	50.000	50.629	-1.3	80	0.00
25	T	2-Butanone	250.000	220.416	11.8	67	0.01
26	T	2,2-Dichloropropane	50.000	41.758	16.5	66	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.429	-0.9	80	0.00
28	T	Bromochloromethane	50.000	50.366	-0.7	80	0.00
29	T	Tetrahydrofuran	250.000	235.626	5.7	73	0.00
30	C	Chloroform	50.000	51.980	-4.0#	83	0.00
31	T	Cyclohexane	50.000	43.985	12.0	74	0.00
32	T	1,1,1-Trichloroethane	50.000	50.099	-0.2	80	0.00
33	S	1,2-Dichloroethane-d4	50.000	53.901	-7.8	86	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35	S	Dibromofluoromethane	50.000	50.660	-1.3	84	0.00
36	T	1,1-Dichloropropene	50.000	47.183	5.6	78	0.00
37	T	Ethyl Acetate	50.000	45.871	8.3	74	0.00
38	T	Carbon Tetrachloride	50.000	47.160	5.7	79	0.00
39	T	Methylcyclohexane	50.000	45.989	8.0	77	0.00
40	TM	Benzene	50.000	49.676	0.6	82	0.00
41	T	Methacrylonitrile	50.000	42.799	14.4	68	0.00
42	TM	1,2-Dichloroethane	50.000	49.831	0.3	83	0.00
43	T	Isopropyl Acetate	50.000	46.911	6.2	77	0.00
44	TM	Trichloroethene	50.000	47.429	5.1	80	0.00
45	C	1,2-Dichloropropane	50.000	50.190	-0.4#	83	0.00
46	T	Dibromomethane	50.000	50.217	-0.4	82	0.00
47	T	Bromodichloromethane	50.000	51.308	-2.6	84	0.00
48	T	Methyl methacrylate	50.000	46.602	6.8	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
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 01:32:33 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	959.813	4.0	78	0.00
50	S	Toluene-d8	50.000	50.964	-1.9	84	0.00
51	T	4-Methyl-2-Pentanone	250.000	240.407	3.8	76	0.00
52	CM	Toluene	50.000	50.491	-1.0#	83	0.00
53	T	t-1,3-Dichloropropene	50.000	48.061	3.9	78	0.00
54	T	cis-1,3-Dichloropropene	50.000	48.260	3.5	78	0.00
55	T	1,1,2-Trichloroethane	50.000	49.113	1.8	81	0.00
56	T	Ethyl methacrylate	50.000	49.346	1.3	77	0.00
57	T	1,3-Dichloropropane	50.000	49.259	1.5	81	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	258.207	-3.3	79	0.00
59	T	2-Hexanone	250.000	233.670	6.5	73	0.00
60	T	Dibromochloromethane	50.000	49.847	0.3	81	0.00
61	T	1,2-Dibromoethane	50.000	49.026	1.9	80	0.00
62	S	4-Bromofluorobenzene	50.000	51.660	-3.3	85	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64	T	Tetrachloroethene	50.000	47.178	5.6	81	0.00
65	PM	Chlorobenzene	50.000	48.335	3.3	83	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.184	1.6	83	0.00
67	C	Ethyl Benzene	50.000	48.775	2.5#	81	0.00
68	T	m/p-Xylenes	100.000	99.829	0.2	84	0.00
69	T	o-Xylene	50.000	50.504	-1.0	84	0.00
70	T	Styrene	50.000	51.783	-3.6	86	0.00
71	P	Bromoform	50.000	47.255	5.5	79	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73	T	Isopropylbenzene	50.000	46.938	6.1	82	0.00
74	T	N-amyl acetate	50.000	44.606	10.8	75	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.802	8.4	82	0.00
76	T	1,2,3-Trichloropropane	50.000	54.526	-9.1	85	0.00
77	T	Bromobenzene	50.000	46.165	7.7	81	0.00
78	T	n-propylbenzene	50.000	47.987	4.0	83	0.00
79	T	2-Chlorotoluene	50.000	47.529	4.9	83	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.207	3.6	83	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	39.770	20.5	70	0.00
82	T	4-Chlorotoluene	50.000	48.521	3.0	85	0.00
83	T	tert-Butylbenzene	50.000	47.072	5.9	81	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.211	1.6	85	0.00
85	T	sec-Butylbenzene	50.000	47.812	4.4	83	0.00
86	T	p-Isopropyltoluene	50.000	48.457	3.1	83	0.00
87	T	1,3-Dichlorobenzene	50.000	47.944	4.1	86	0.00
88	T	1,4-Dichlorobenzene	50.000	46.877	6.2	84	0.00
89	T	n-Butylbenzene	50.000	48.761	2.5	84	0.00
90	T	Hexachloroethane	50.000	47.944	4.1	85	0.00
91	T	1,2-Dichlorobenzene	50.000	47.139	5.7	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.509	9.0	78	0.00
93	T	1,2,4-Trichlorobenzene	50.000	44.744	10.5	79	0.00
94	T	Hexachlorobutadiene	50.000	43.304	13.4	77	0.00
95	T	Naphthalene	50.000	46.067	7.9	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
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 01:32:33 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	44.896	10.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	FIRS02
Lab Code:	ACE	SDG No.:	Q2819
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.

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.:	Q2819
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
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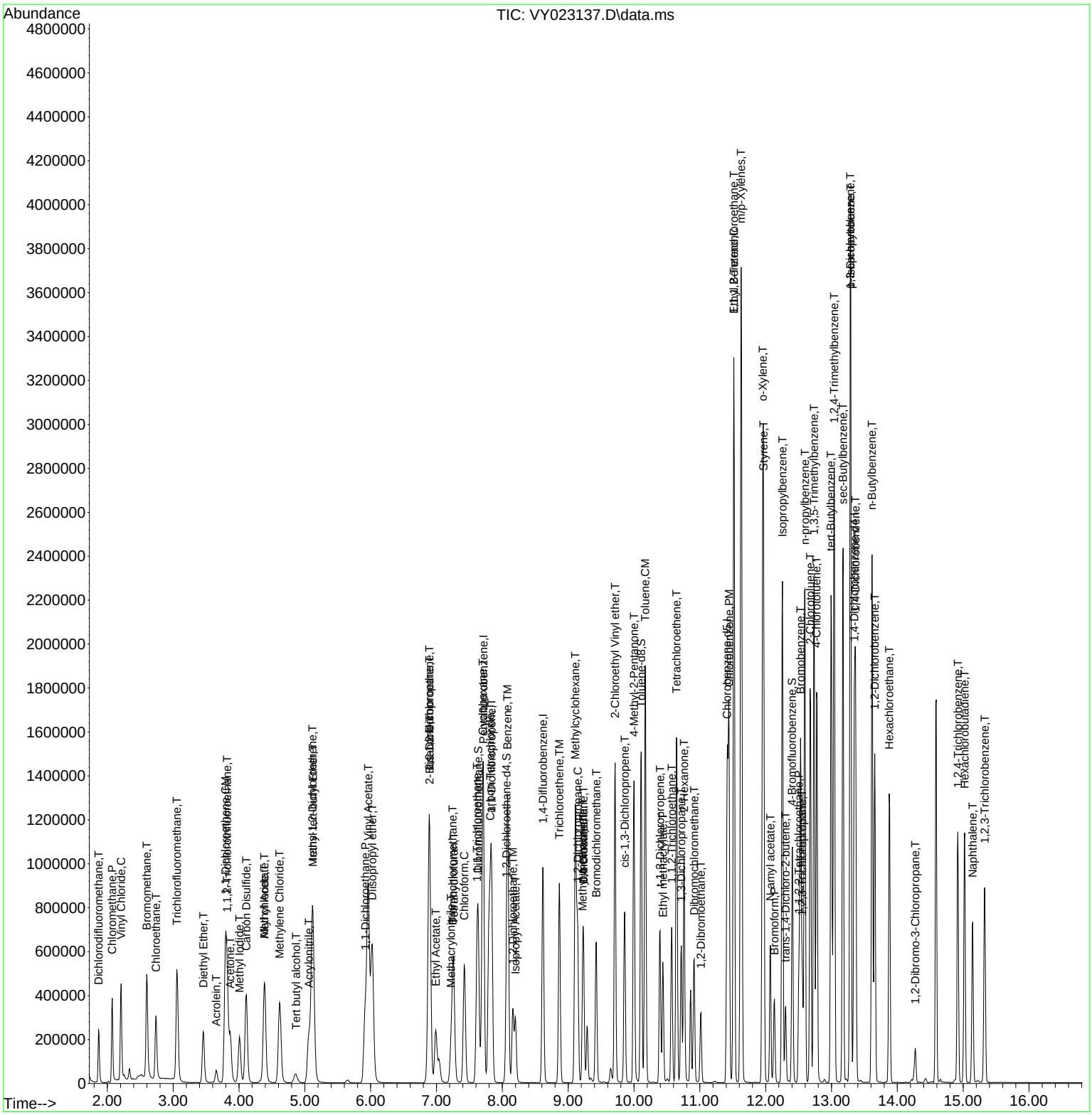
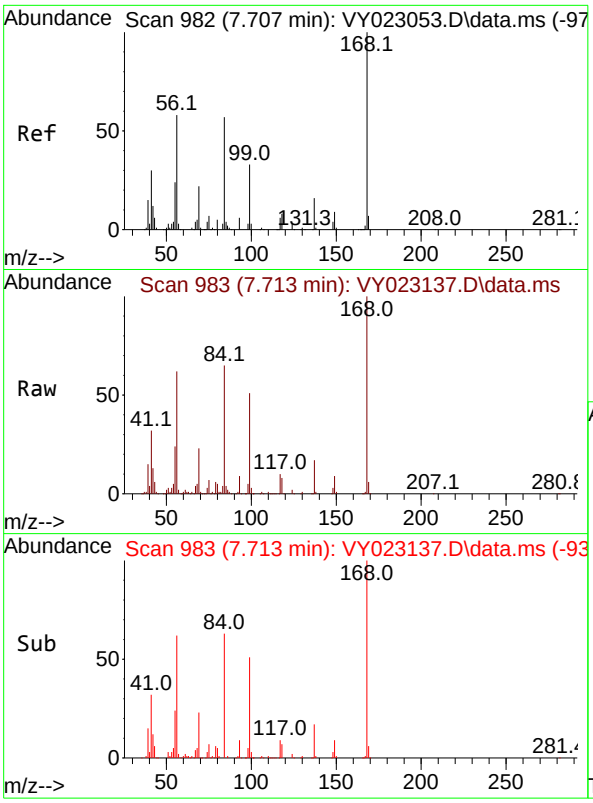
Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

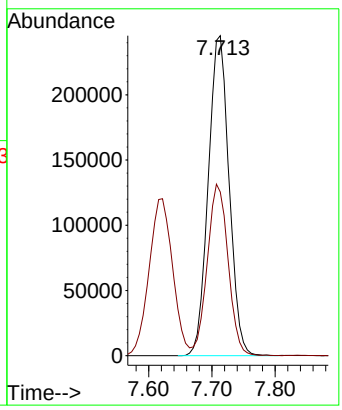




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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
APPROVED

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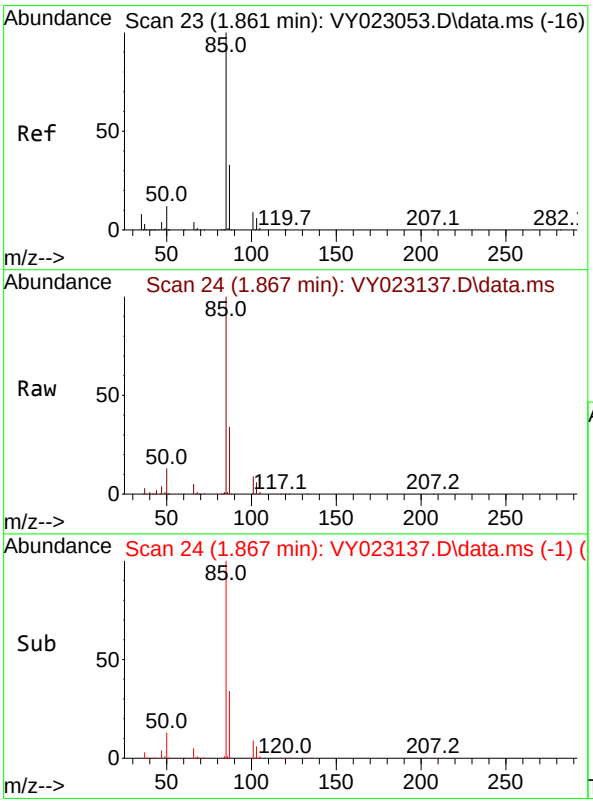
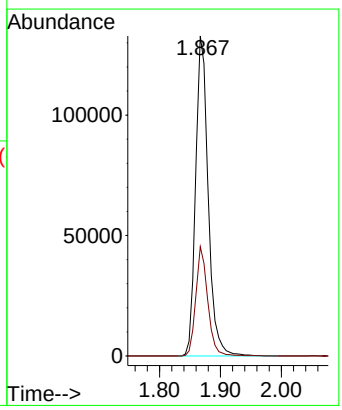
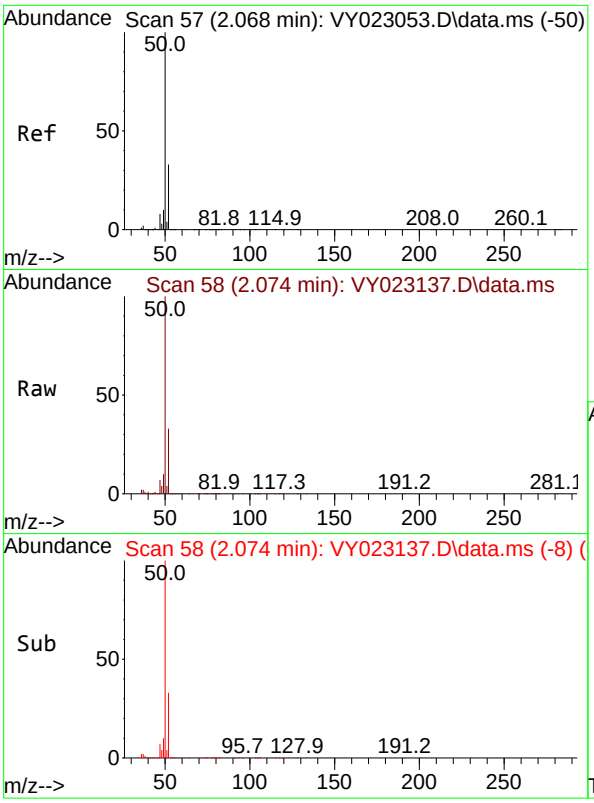


#2
Dichlorodifluoromethane
Concen: 41.557 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 85 Resp: 190057

Ion	Ratio	Lower	Upper
85	100		
87	34.2	16.6	49.8

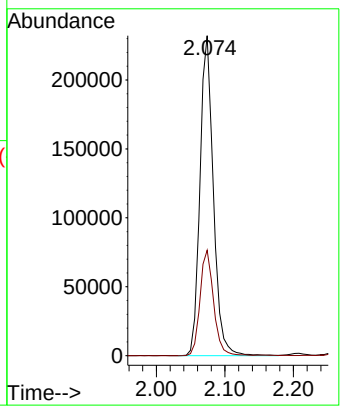




#3
Chloromethane
Concen: 42.705 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 50 Resp: 31633

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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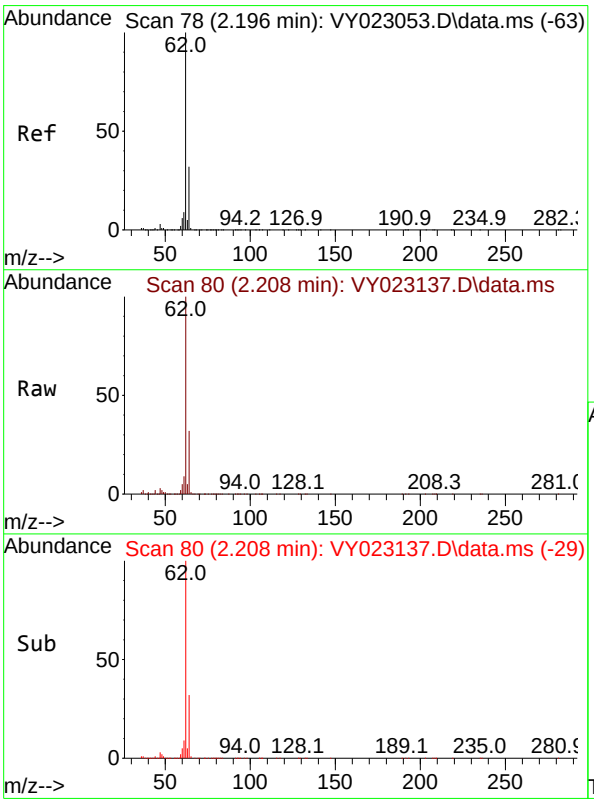
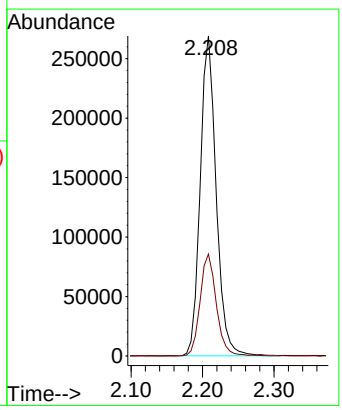
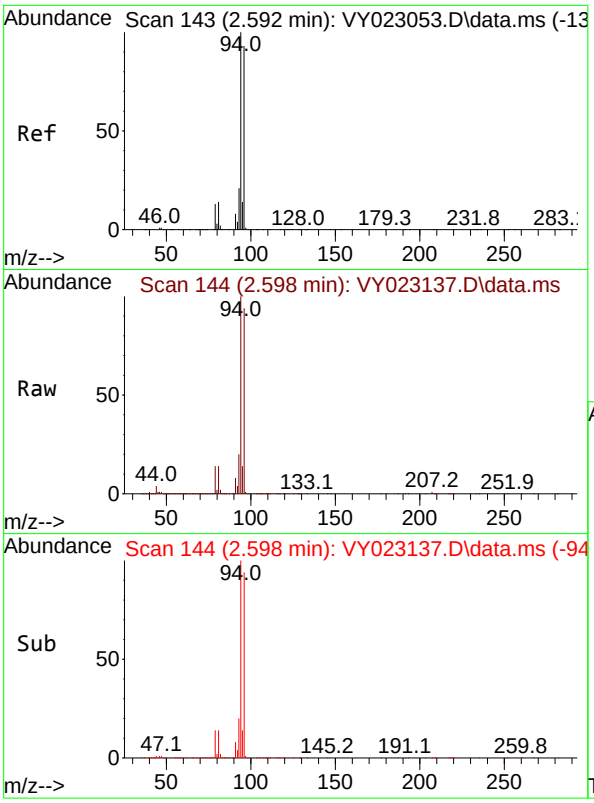


#4
Vinyl Chloride
Concen: 45.491 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 416548

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0

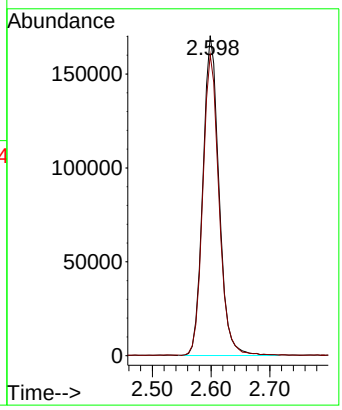




#5
Bromomethane
Concen: 47.481 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 94 Resp: 32469

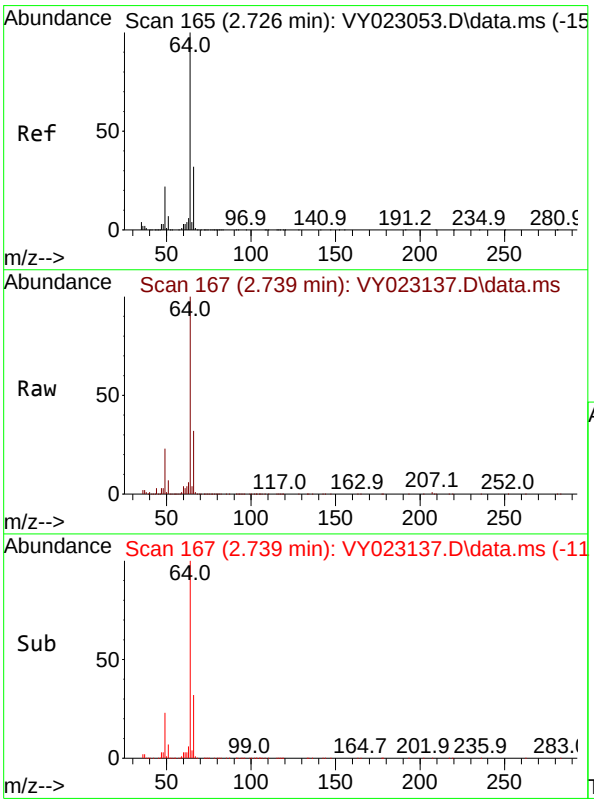
Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

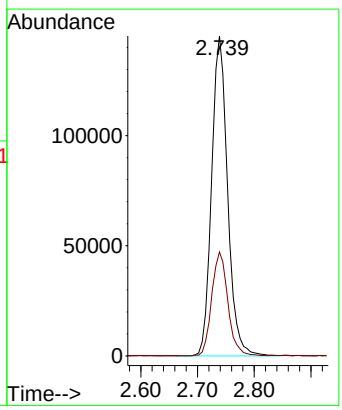
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

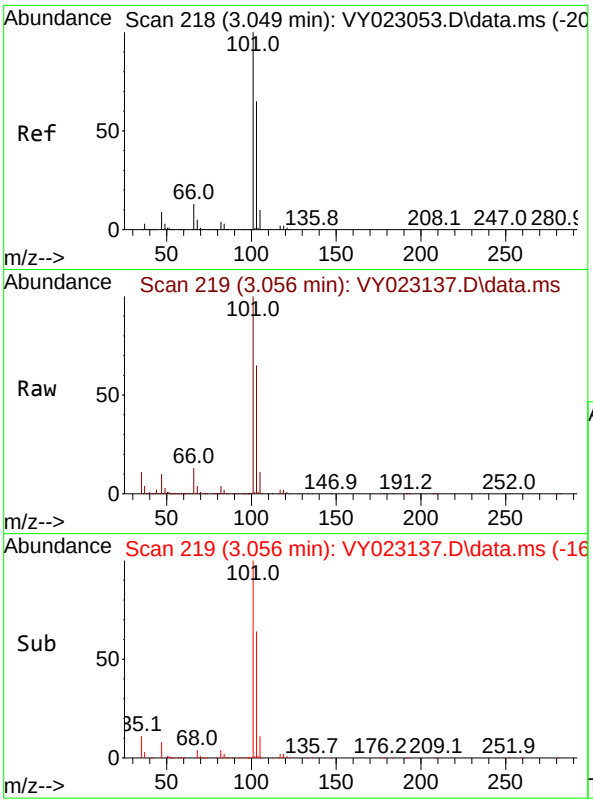


#6
Chloroethane
Concen: 46.683 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 64 Resp: 284191

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.8	38.6

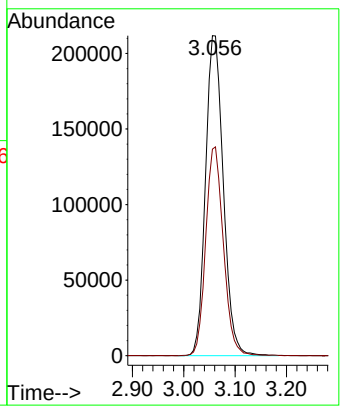




#7
Trichlorofluoromethane
Concen: 45.708 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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
APPROVED

Reviewed By :John Carlone 08/20/2025
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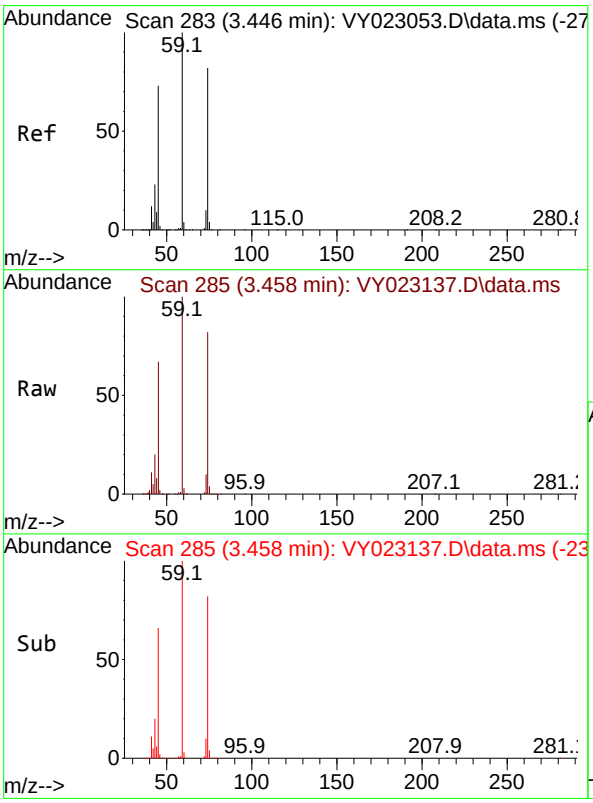
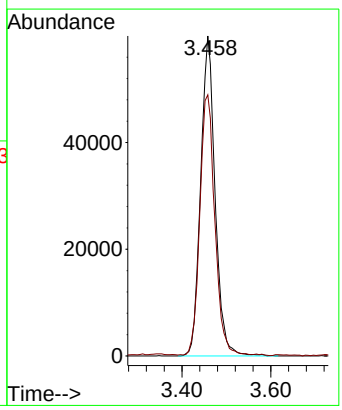
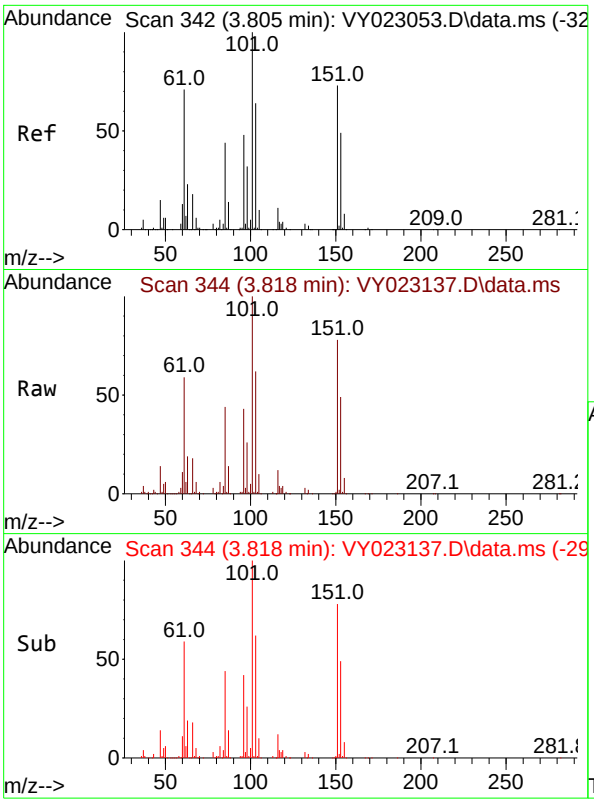


#8
Diethyl Ether
Concen: 46.102 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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# 3
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

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Reviewed By :John Carlone 08/20/2025
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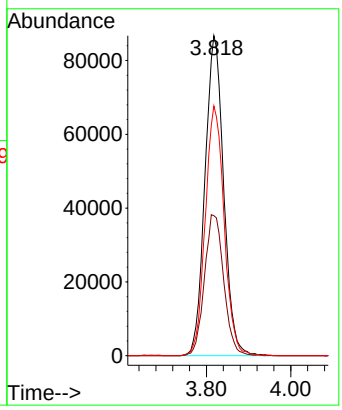
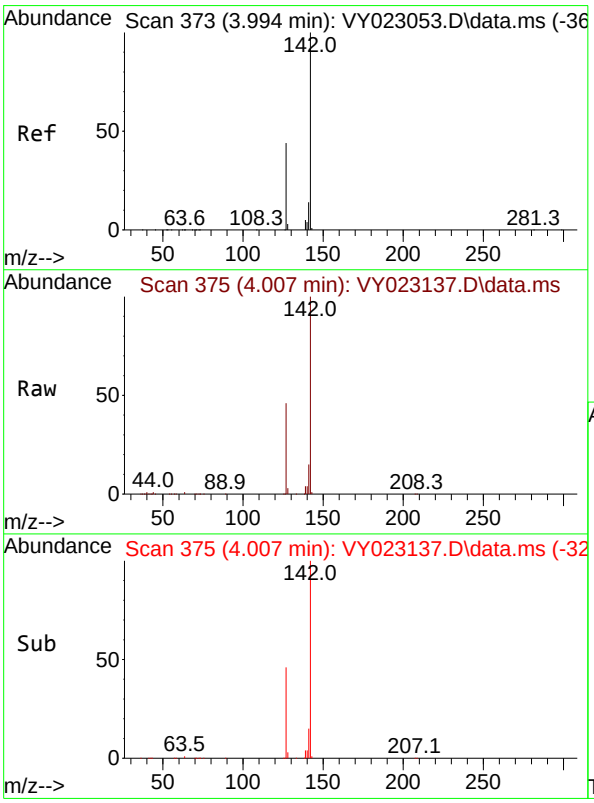
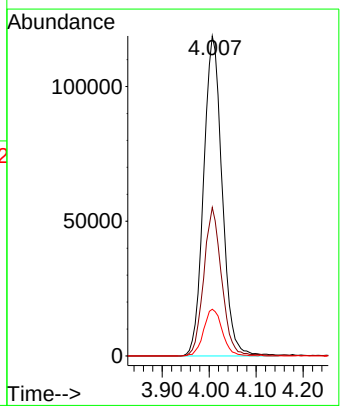


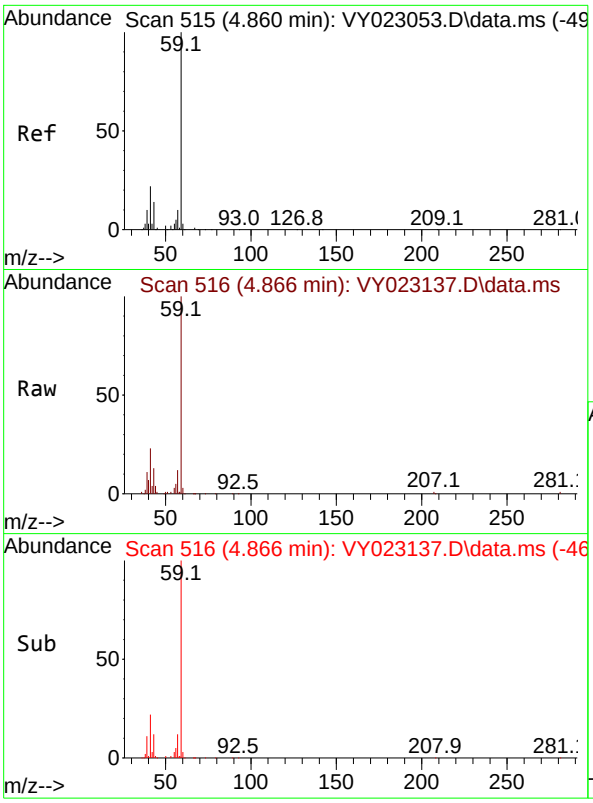


#10
Methyl Iodide
Concen: 54.916 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

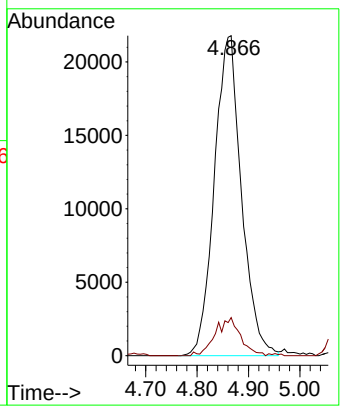




#11
Tert butyl alcohol
Concen: 218.191 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 59 Resp: 7983

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0



Instrument :
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ClientSampleId :
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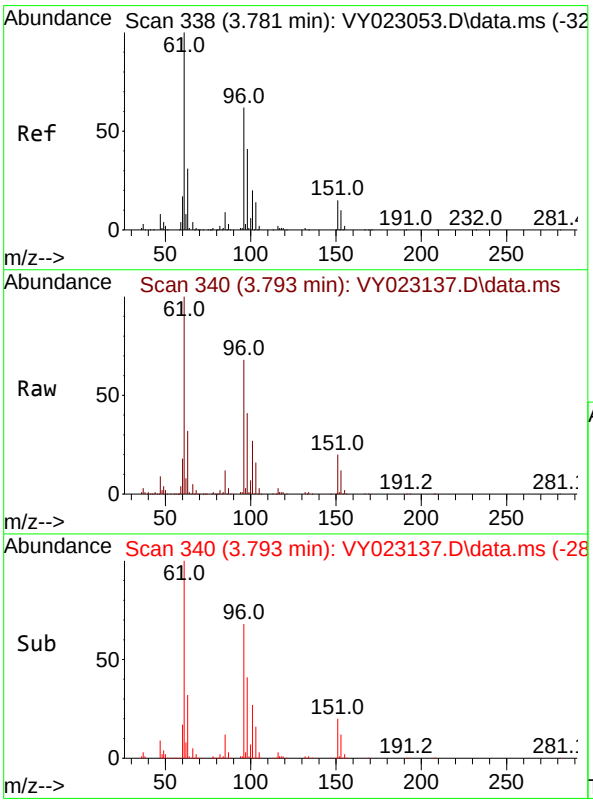
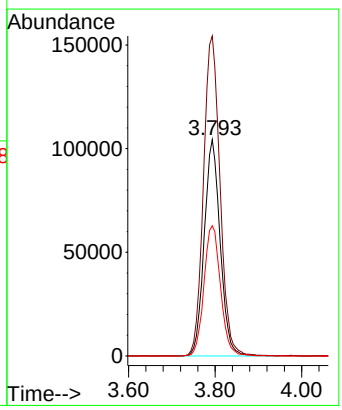
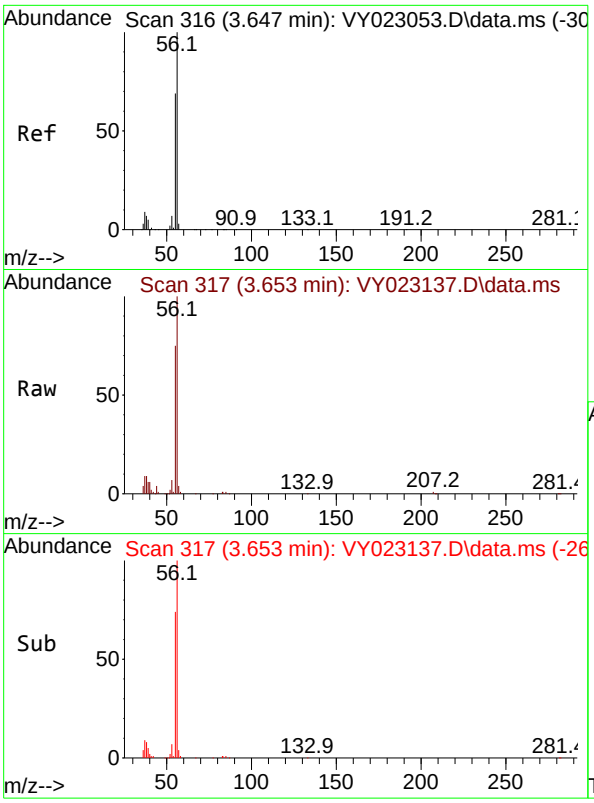


#12
1,1-Dichloroethene
Concen: 49.491 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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 :
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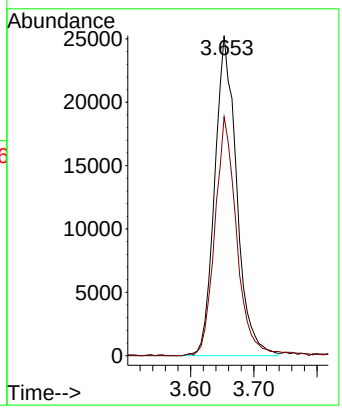
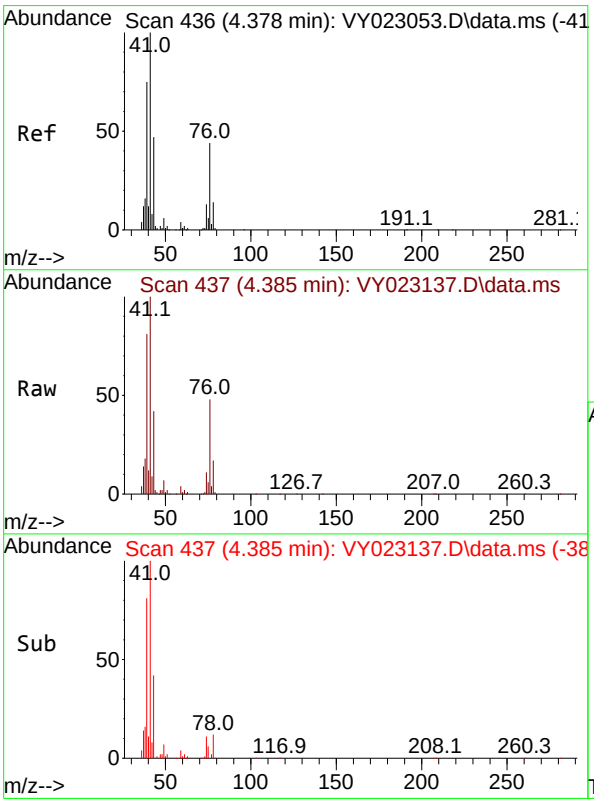
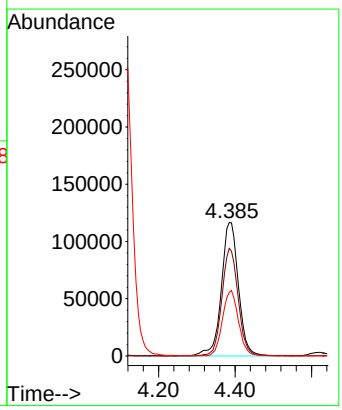


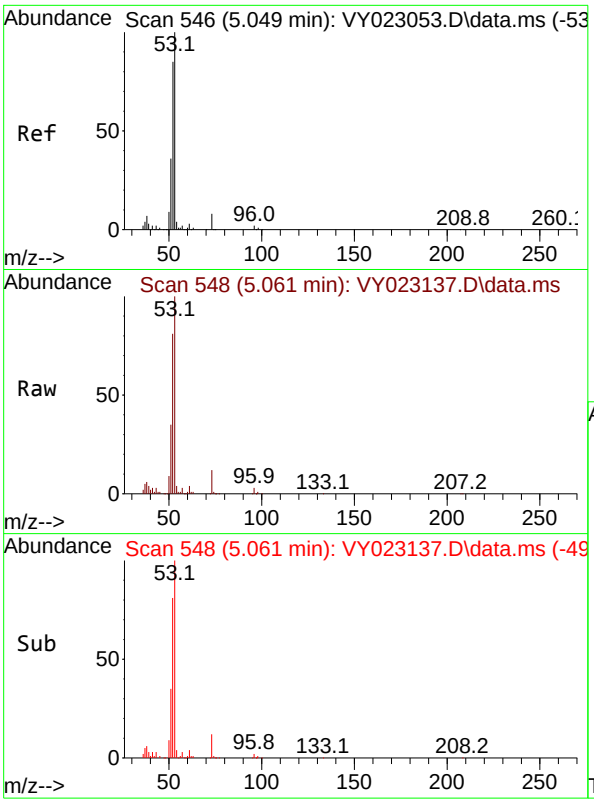


#14
Allyl chloride
Concen: 45.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

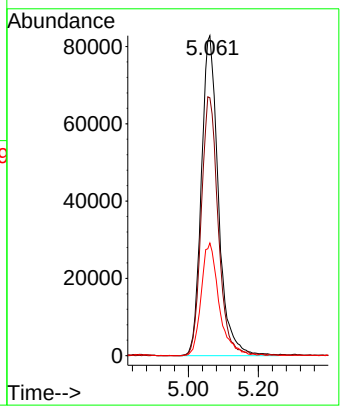




#15
Acrylonitrile
Concen: 233.725 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

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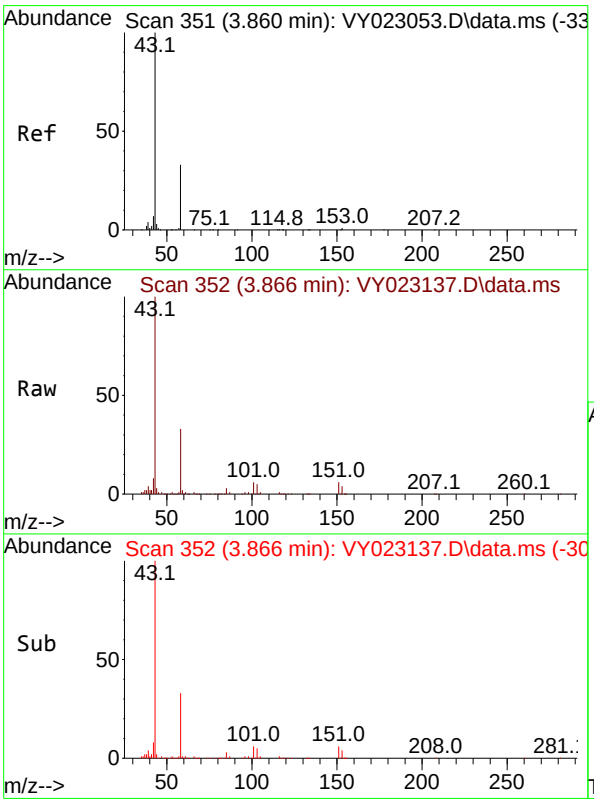
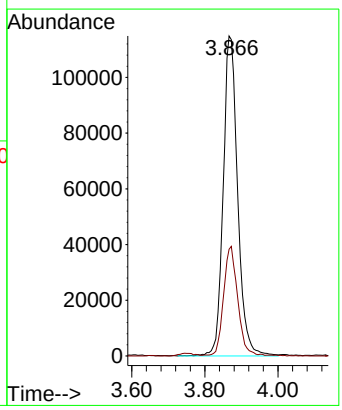
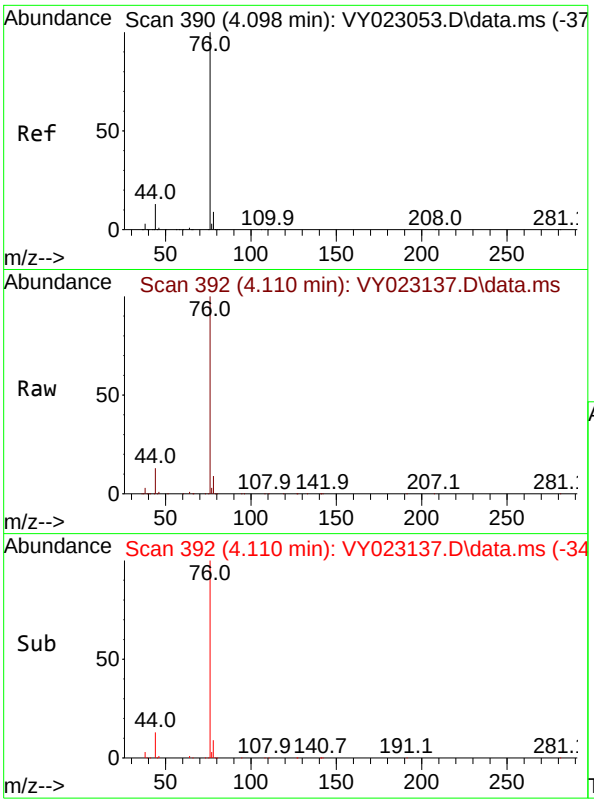


#16
Acetone
Concen: 273.812 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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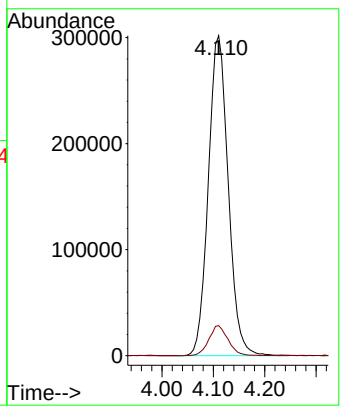
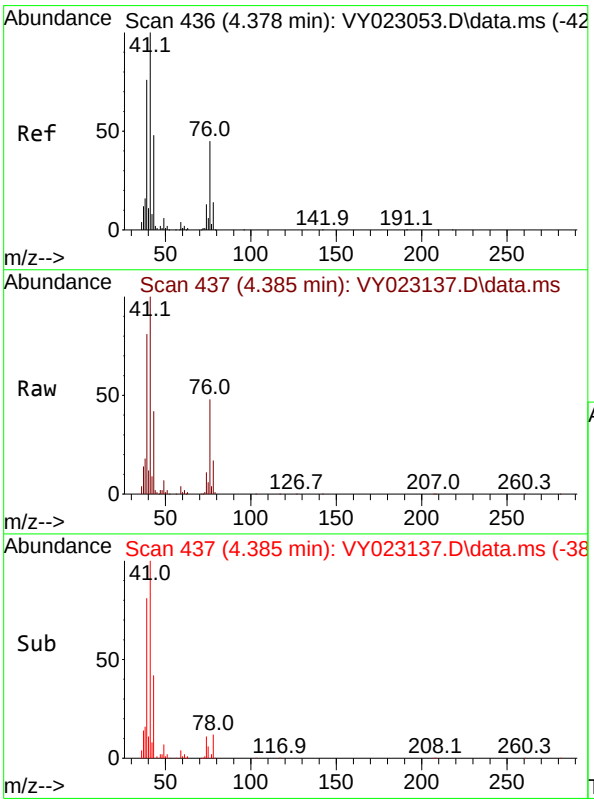
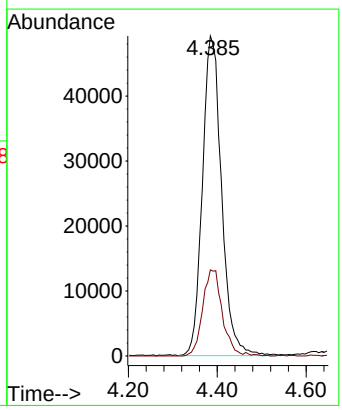


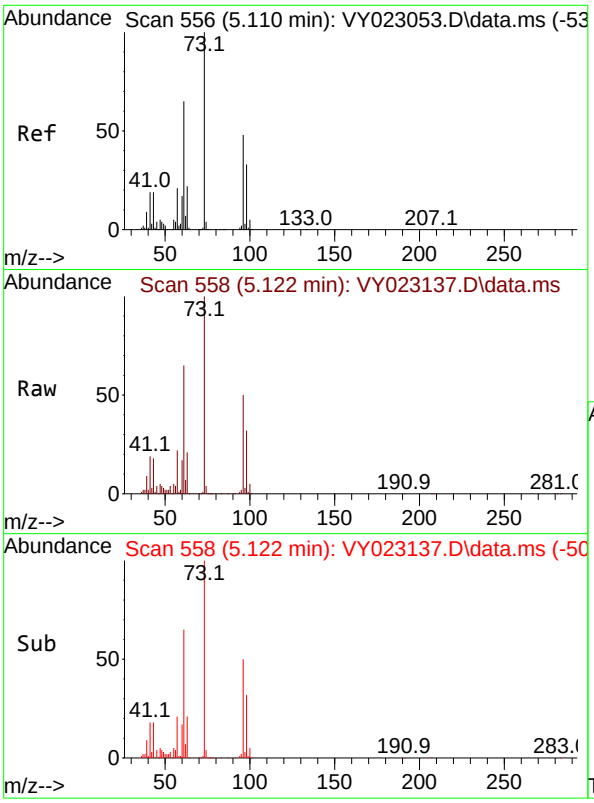


#18
Methyl Acetate
Concen: 42.821 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 147420

Ion	Ratio	Lower	Upper
43	100		
74	27.3	21.2	31.8

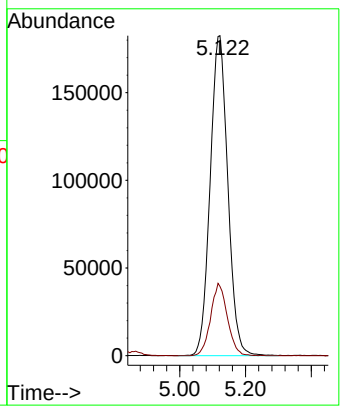




#19
Methyl tert-butyl Ether
Concen: 48.545 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 73 Resp: 67919

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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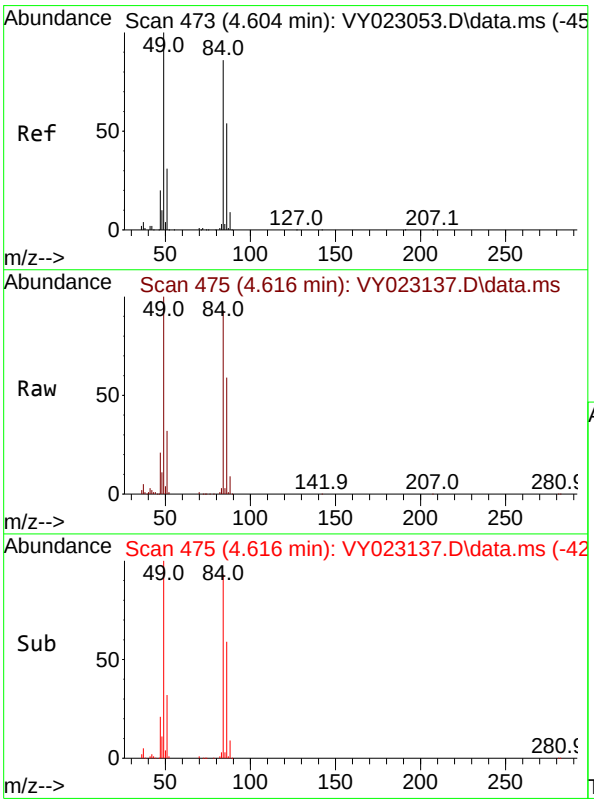
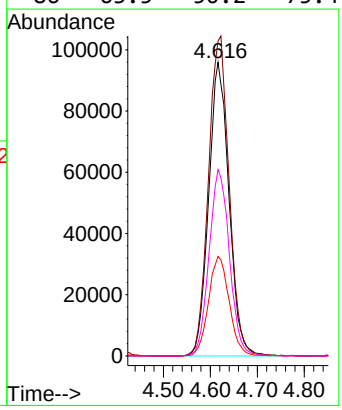
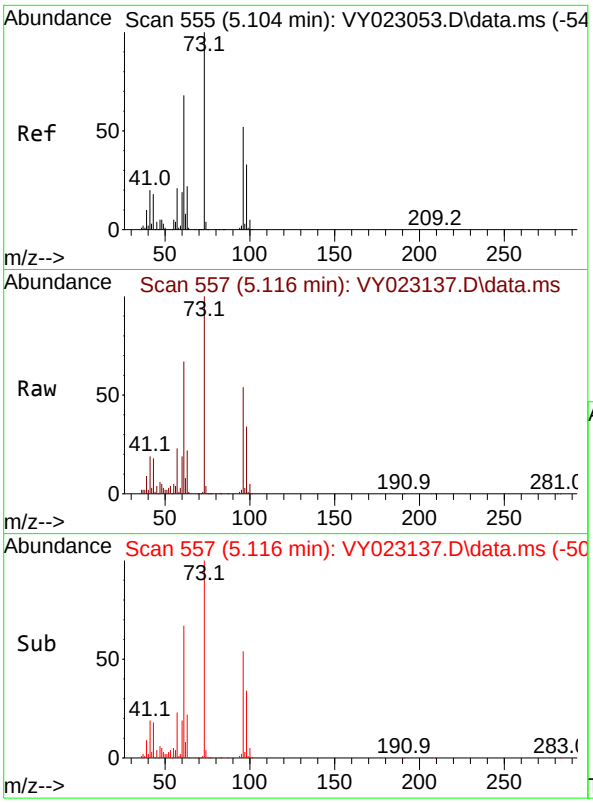


#20
Methylene Chloride
Concen: 47.727 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

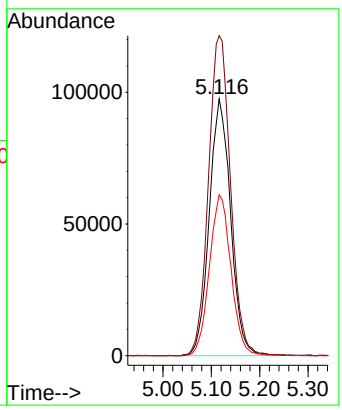




#21
trans-1,2-Dichloroethene
Concen: 49.404 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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 :
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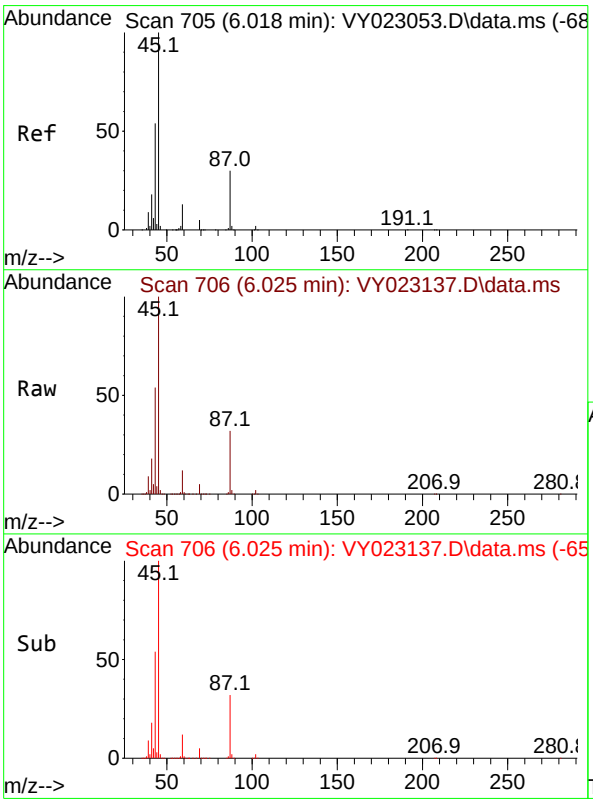
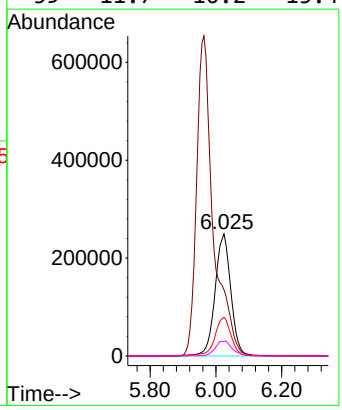
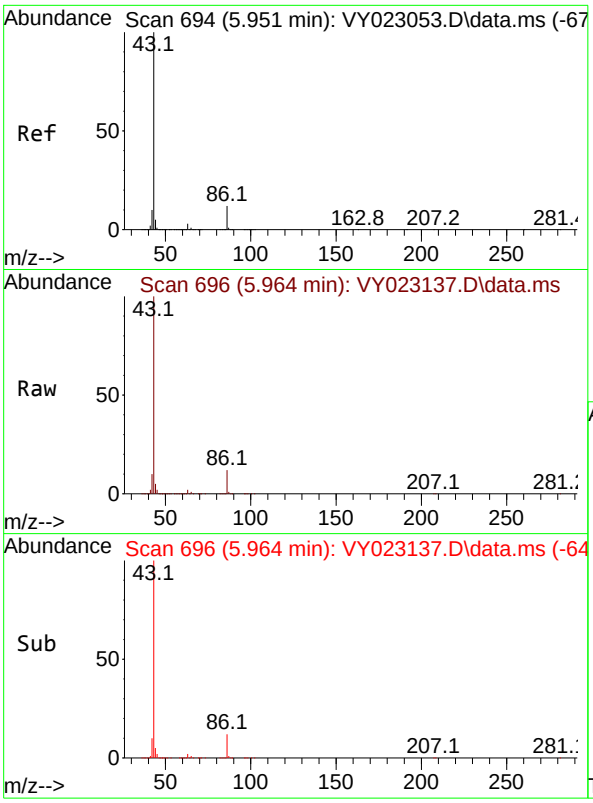


#22
Diisopropyl ether
Concen: 47.793 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

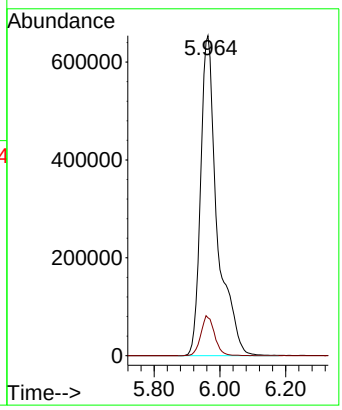




#23
Vinyl Acetate
Concen: 240.761 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 229829

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4



Instrument :
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ClientSampleId :
VSTDCCC050

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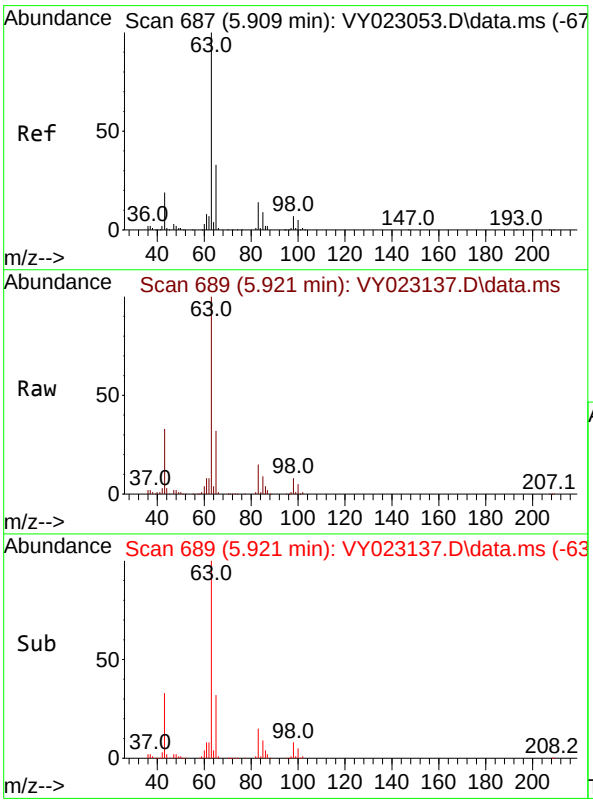
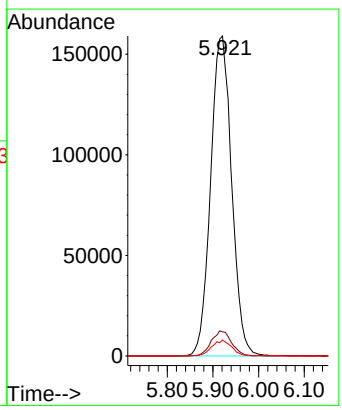
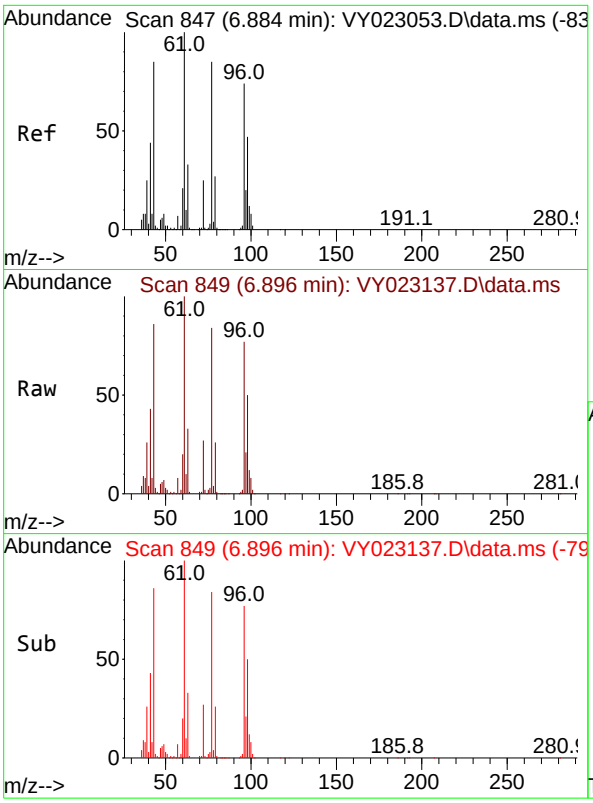


#24
1,1-Dichloroethane
Concen: 48.199 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

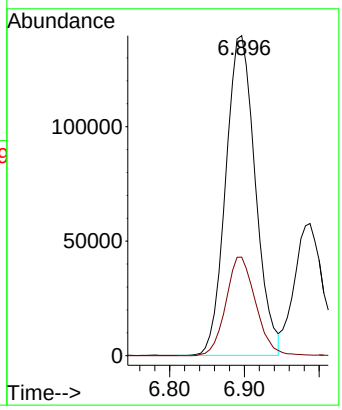




#25
2-Butanone
Concen: 244.351 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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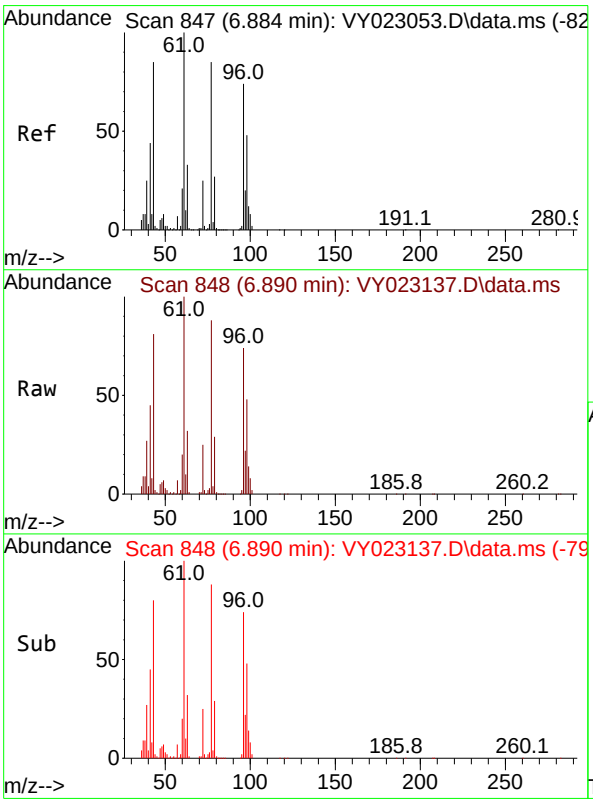
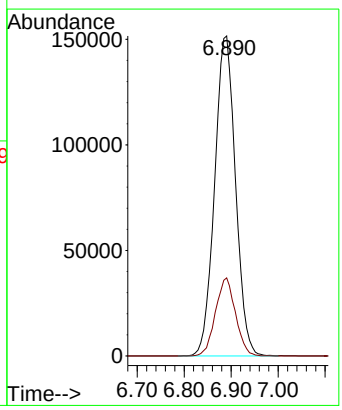
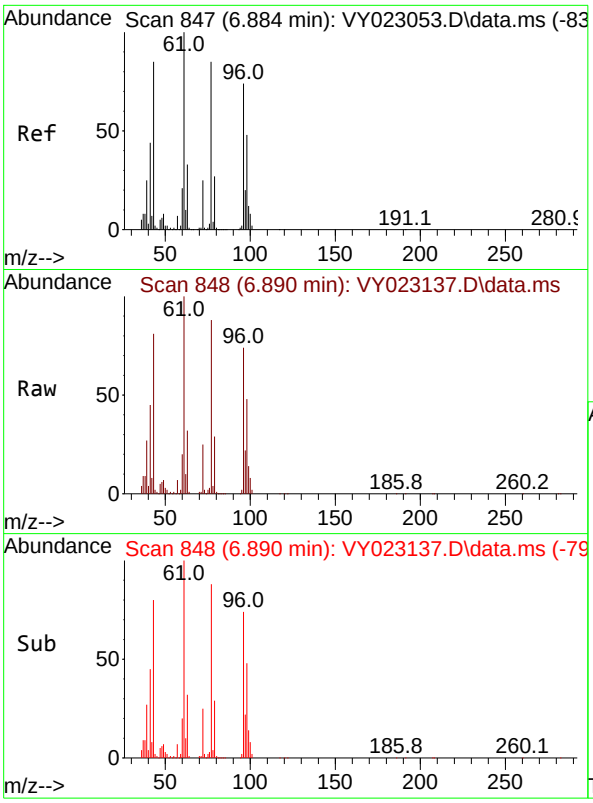


#26
2,2-Dichloropropane
Concen: 51.414 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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: 351019

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

Manual Integrations
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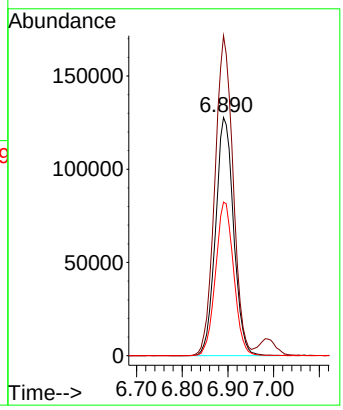
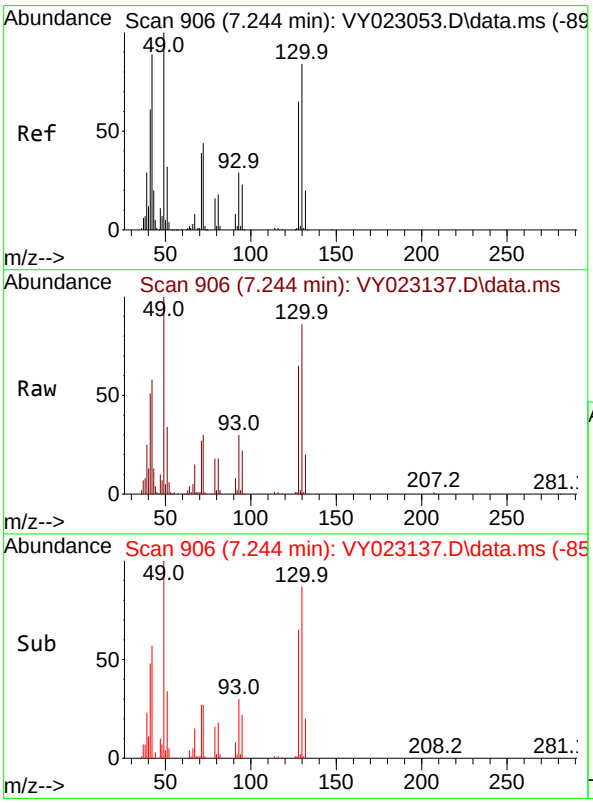
Supervised By :Mahesh Dadoda 08/20/2025

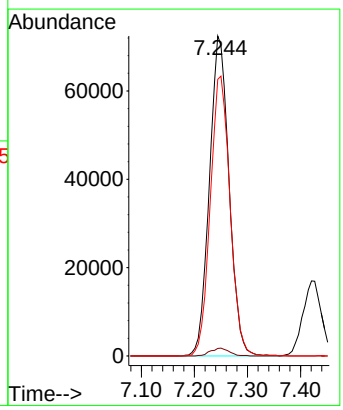


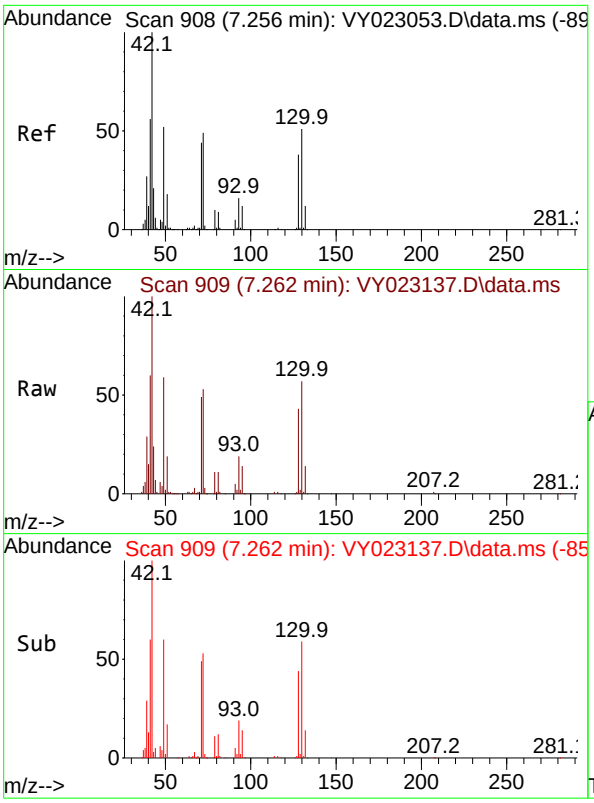


#28
Bromochloromethane
Concen: 44.509 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

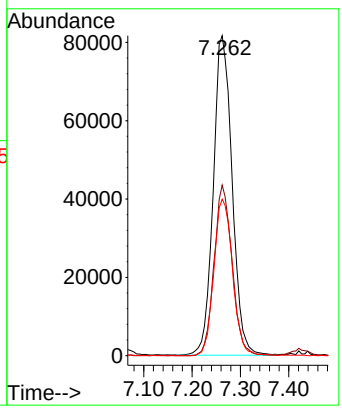




#29
Tetrahydrofuran
Concen: 226.737 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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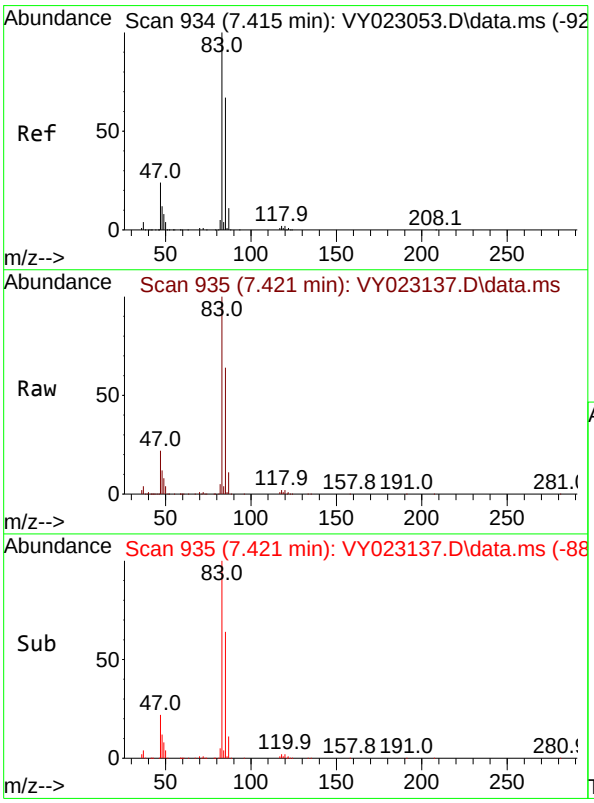
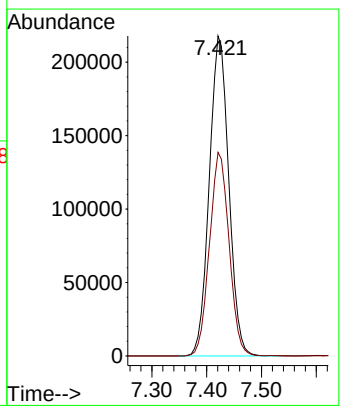
Supervised By :Mahesh Dadoda 08/20/2025

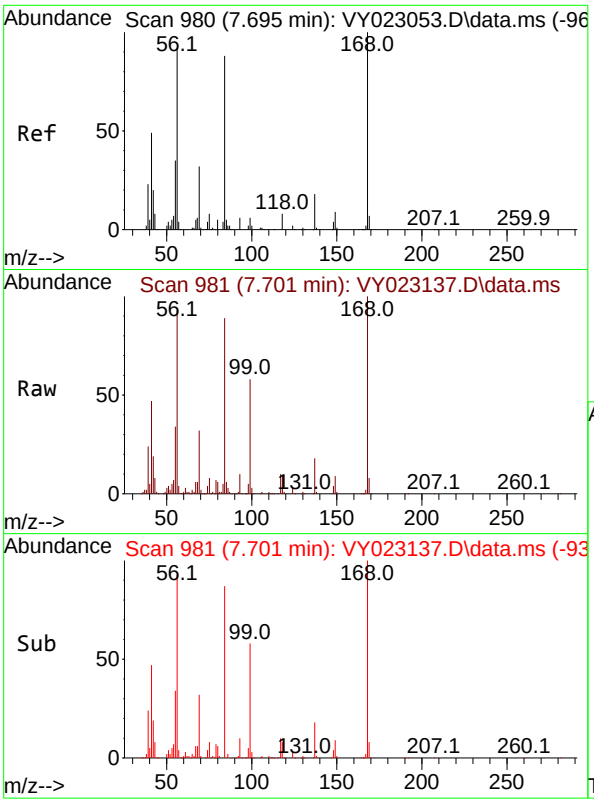


#30
Chloroform
Concen: 49.287 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 536519

Ion	Ratio	Lower	Upper
83	100		
85	63.6	53.8	80.8

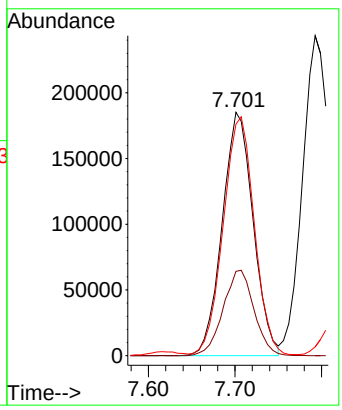




#31
Cyclohexane
Concen: 46.269 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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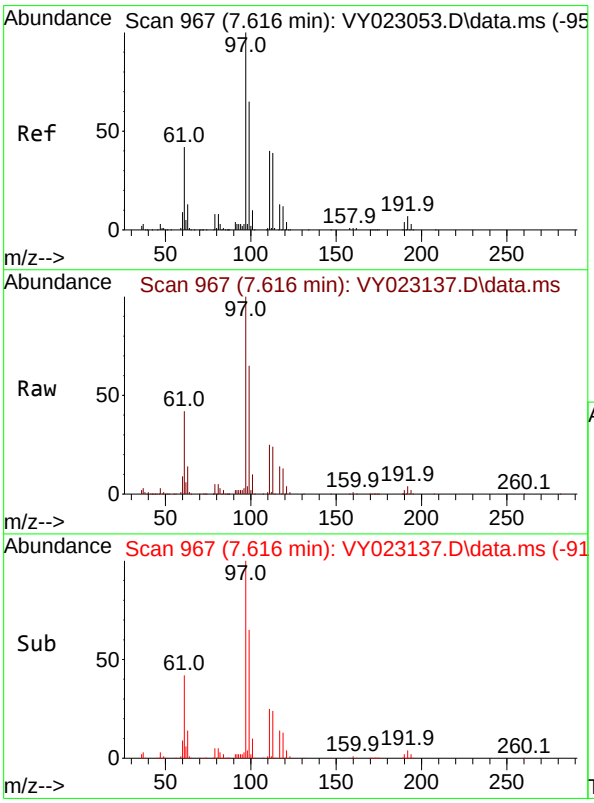
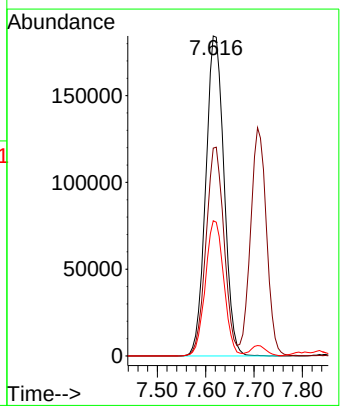
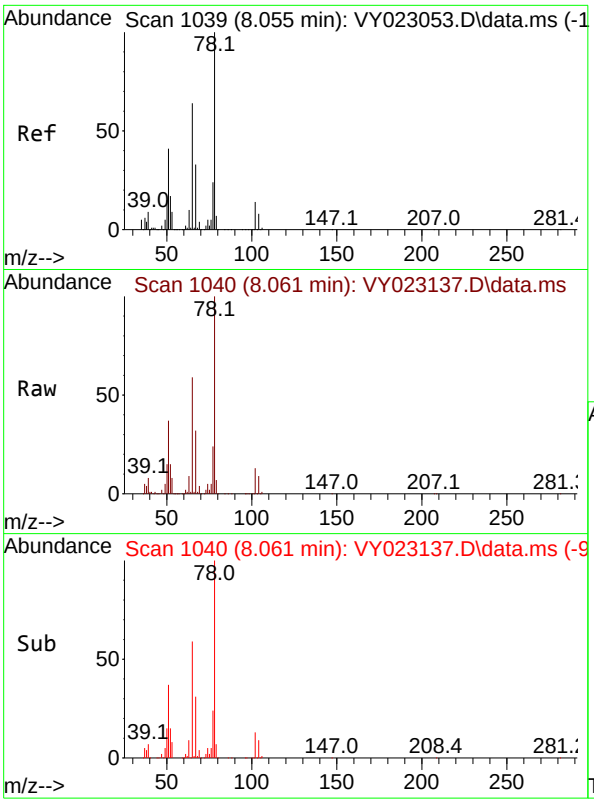


#32
1,1,1-Trichloroethane
Concen: 50.106 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

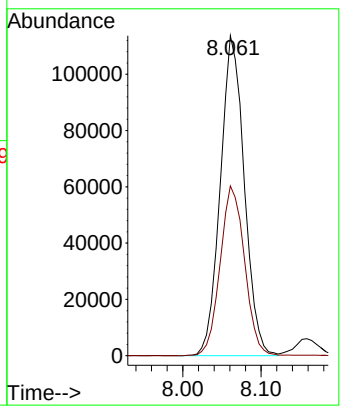




#33
1,2-Dichloroethane-d4
Concen: 45.256 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 65 Resp: 24166

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	106.8



Instrument :
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ClientSampleId :
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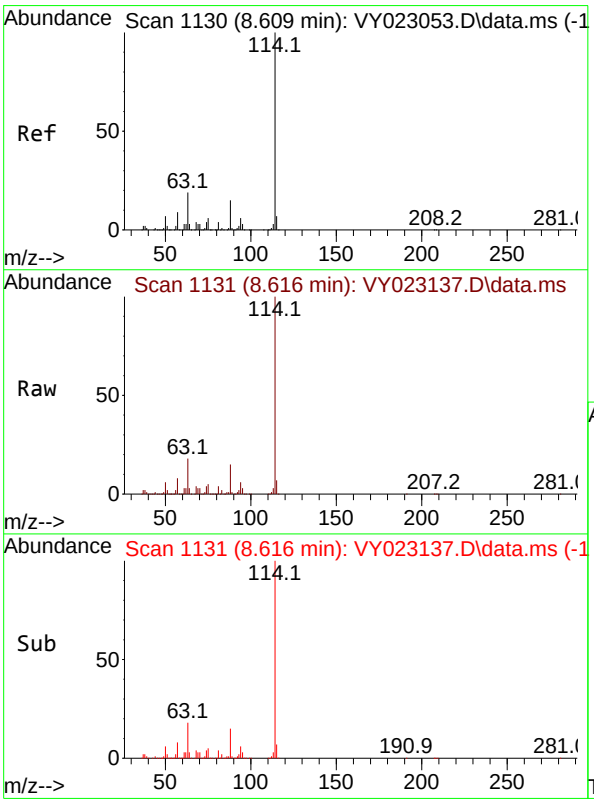
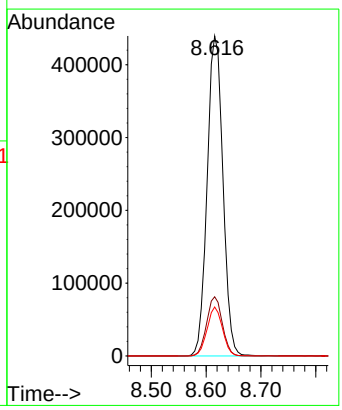
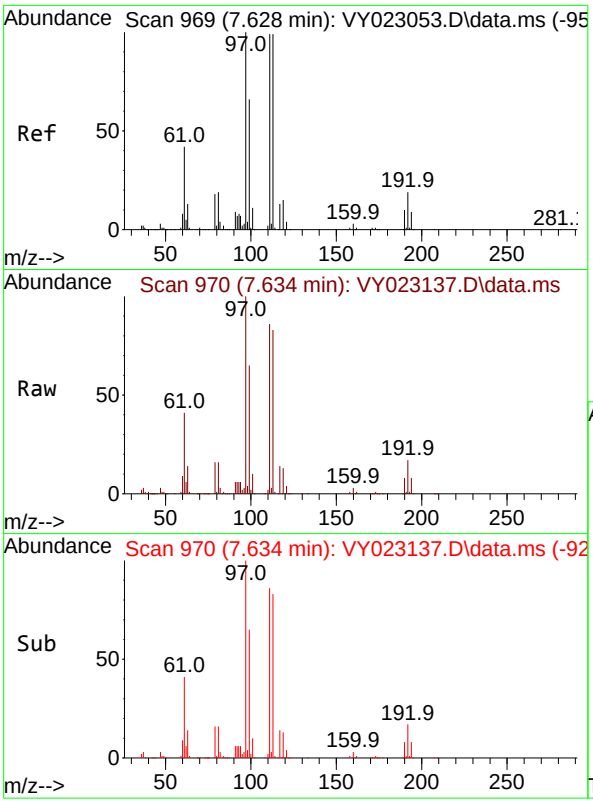


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

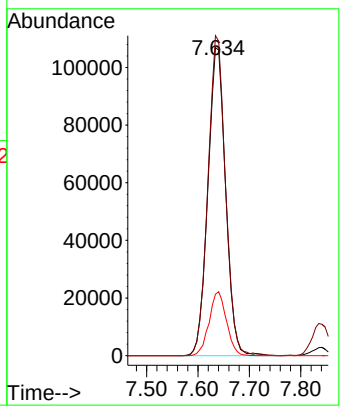




#35
Dibromofluoromethane
Concen: 48.854 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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 :
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ClientSampleId :
VSTDCCC050

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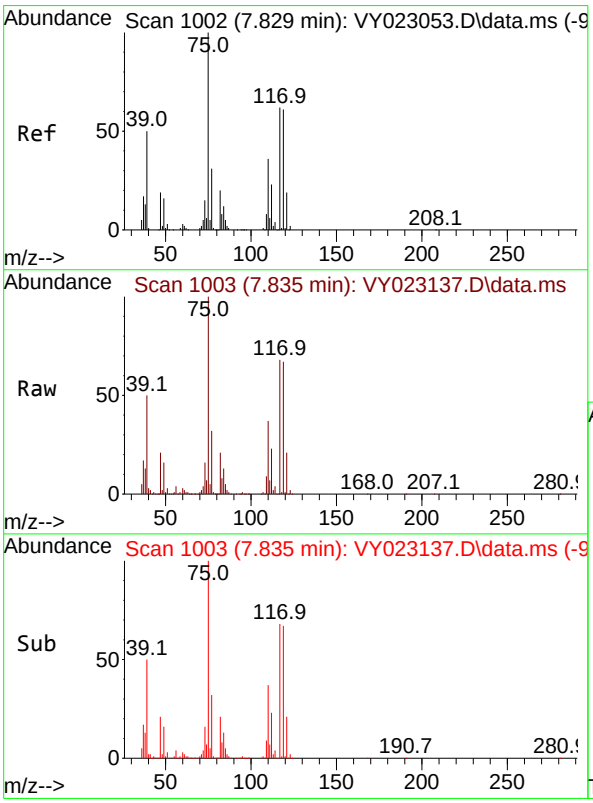
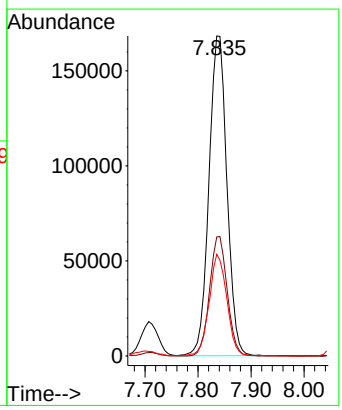
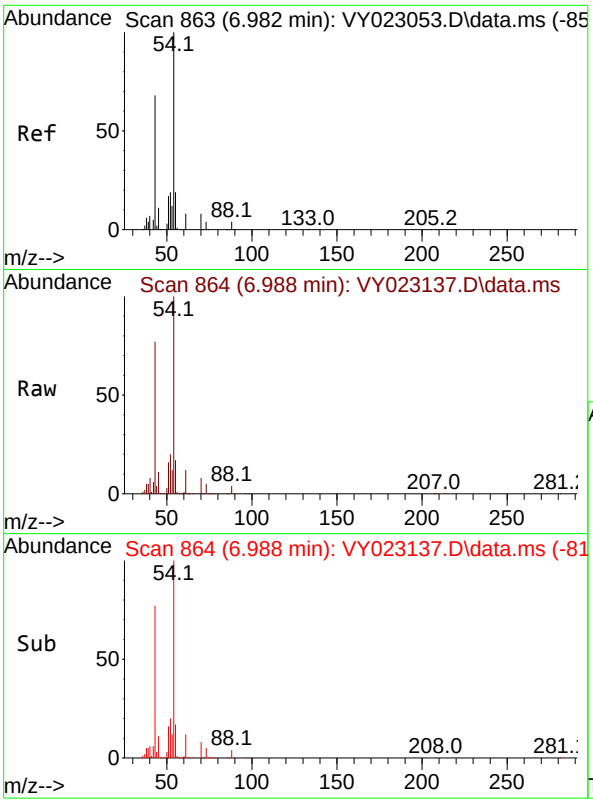


#36
1,1-Dichloropropene
Concen: 50.818 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

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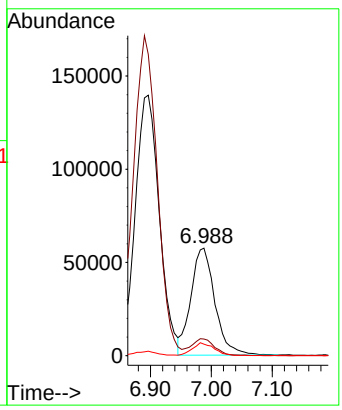
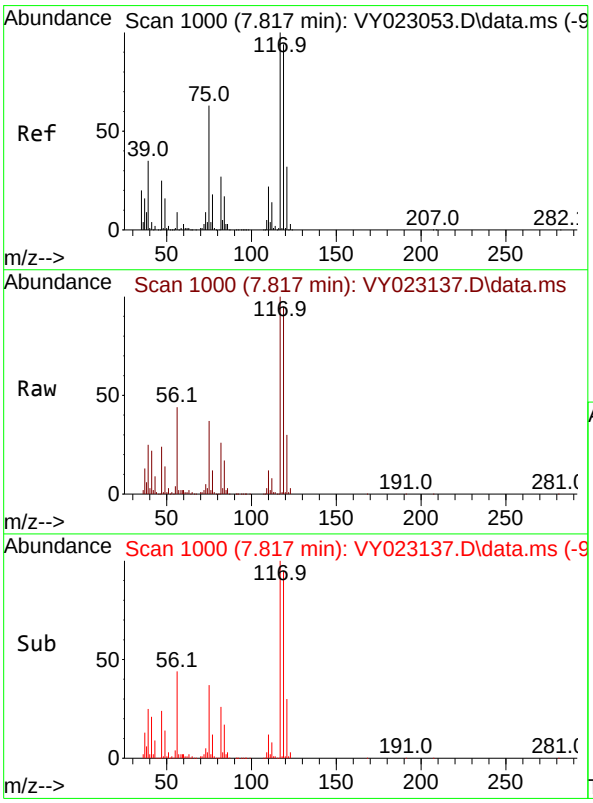
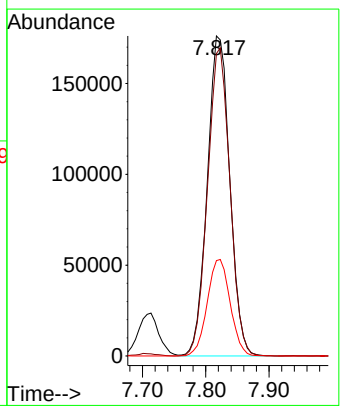


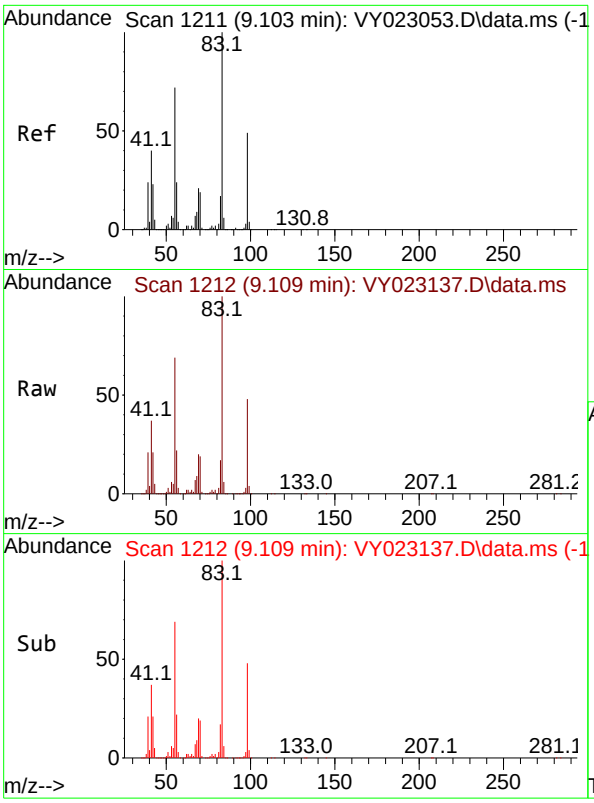


#38
Carbon Tetrachloride
Concen: 51.581 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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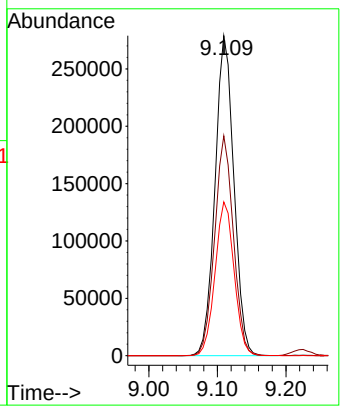
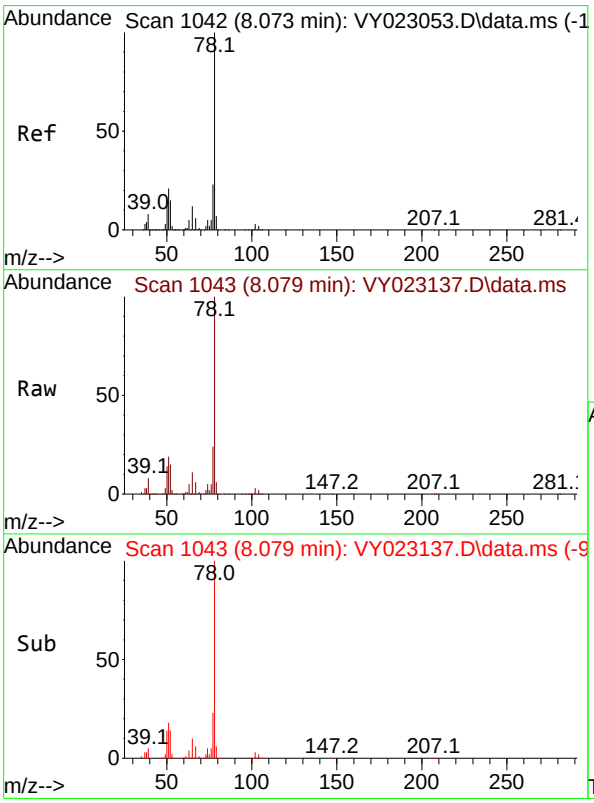
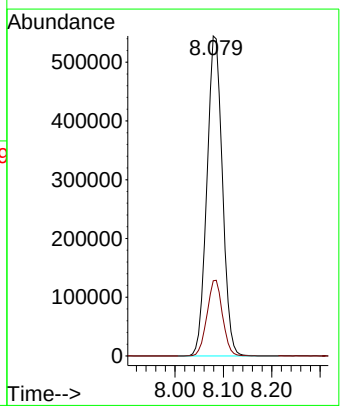


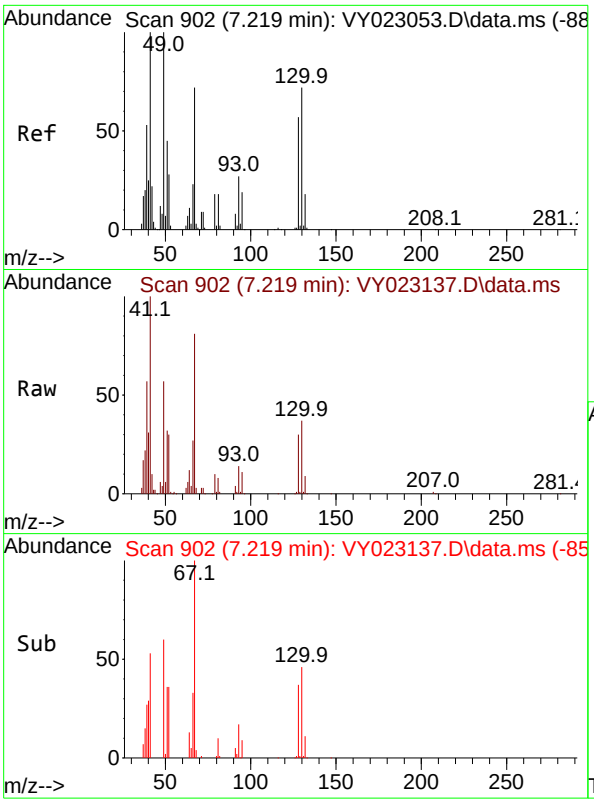


#40
Benzene
Concen: 50.401 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 78 Resp: 1210380

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0

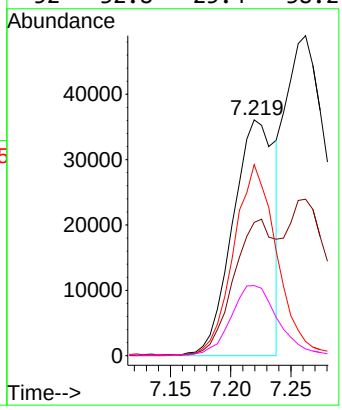




#41
Methacrylonitrile
Concen: 46.765 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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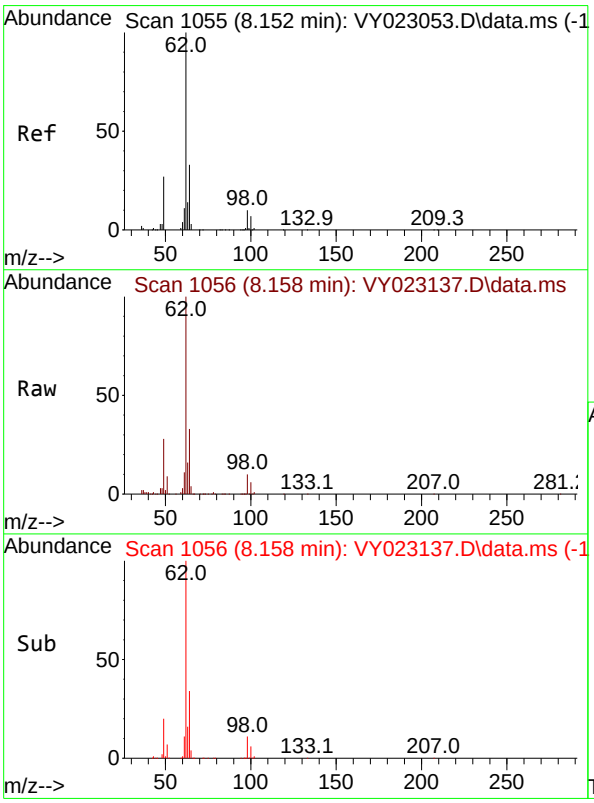
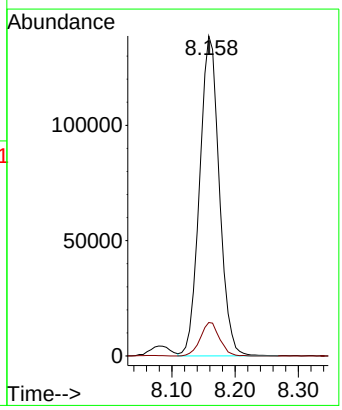
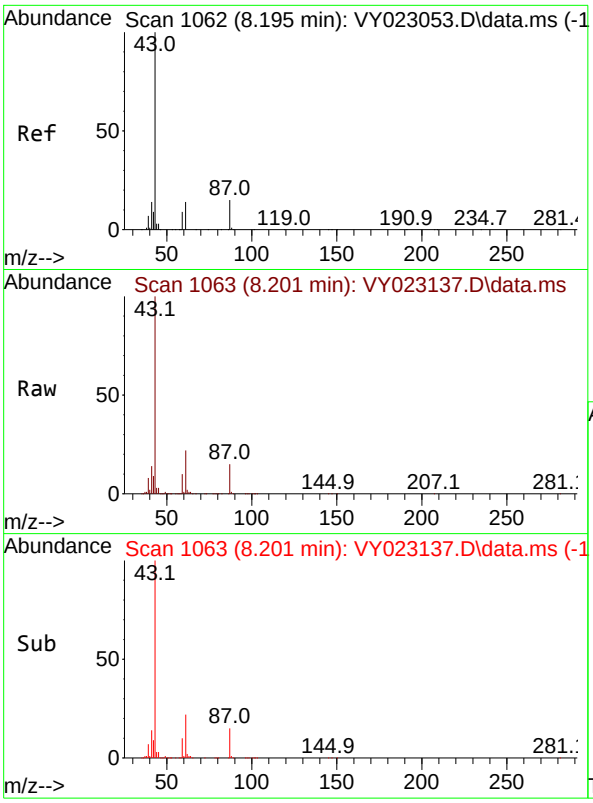


#42
1,2-Dichloroethane
Concen: 48.044 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 300070

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.6

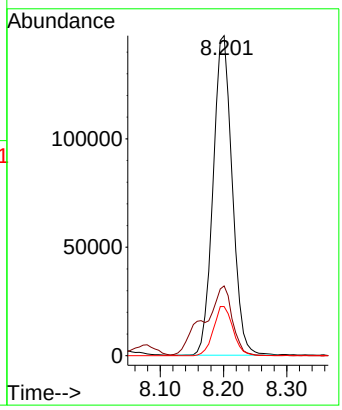




#43
Isopropyl Acetate
Concen: 46.703 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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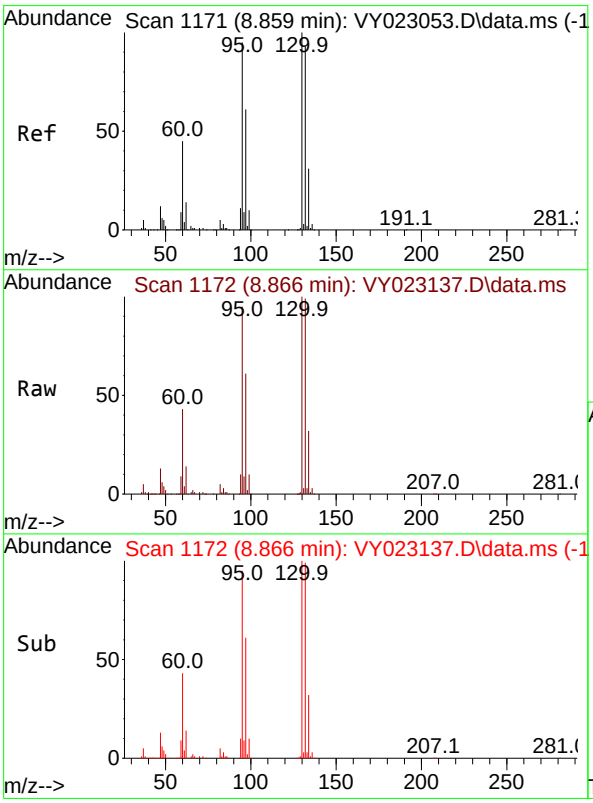
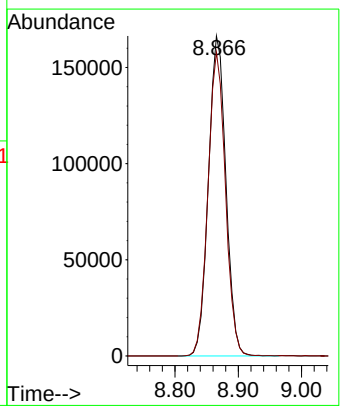
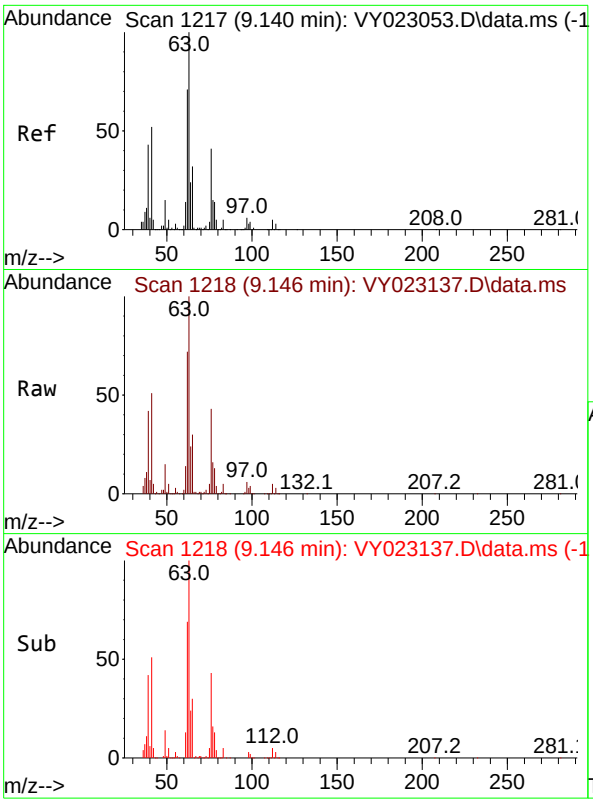


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:130 Resp: 319381

Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	190.2

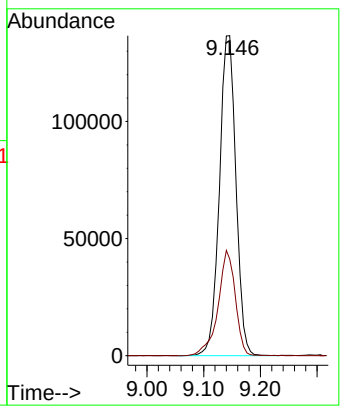




#45
1,2-Dichloropropane
Concen: 50.044 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 27652

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.3	37.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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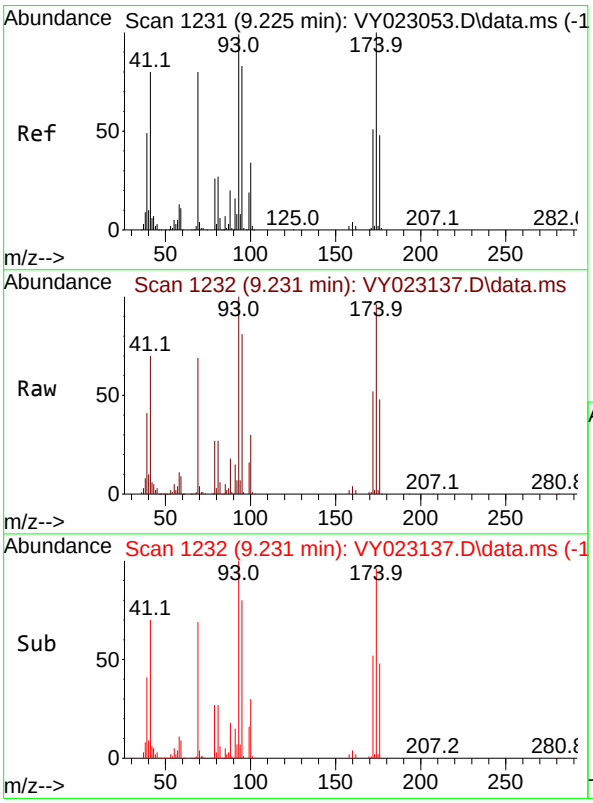
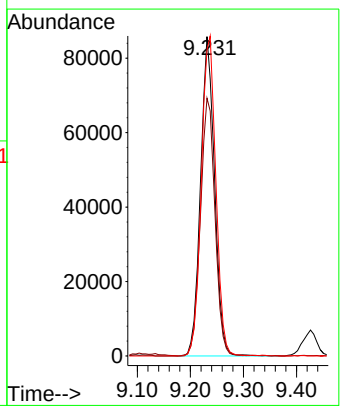
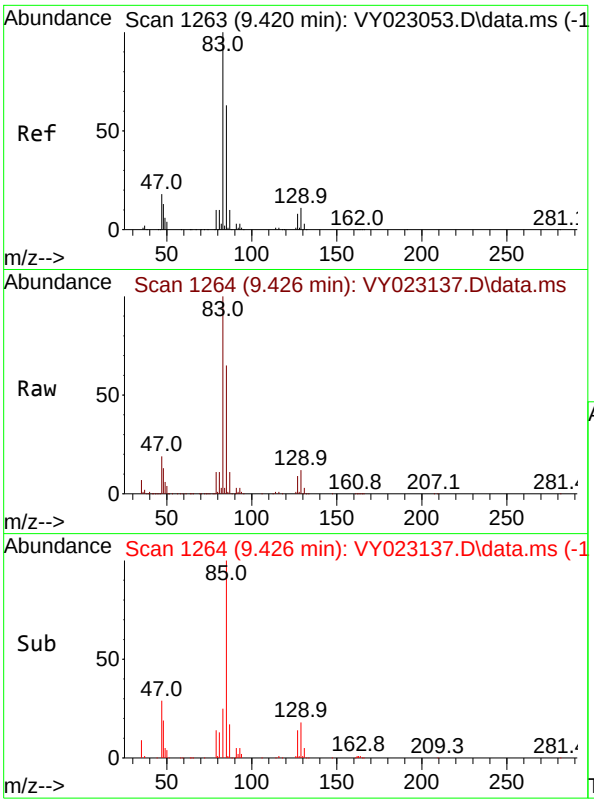


#46
Dibromomethane
Concen: 49.637 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

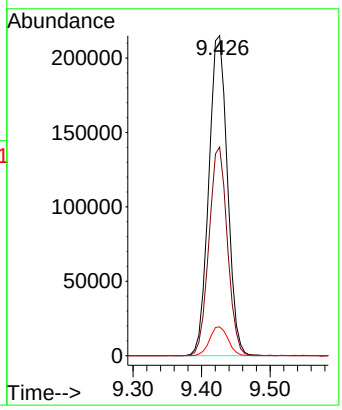




#47
Bromodichloromethane
Concen: 49.781 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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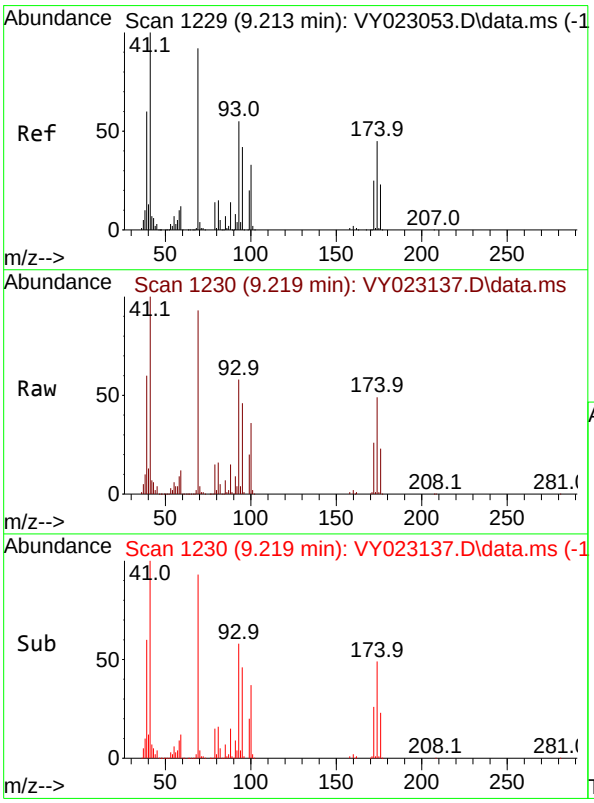
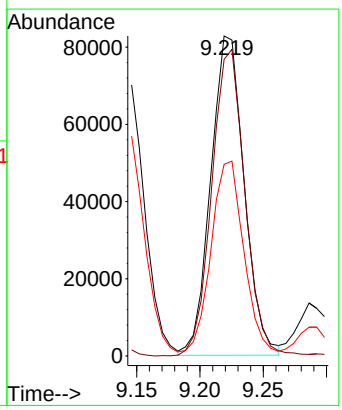
Supervised By :Mahesh Dadoda 08/20/2025

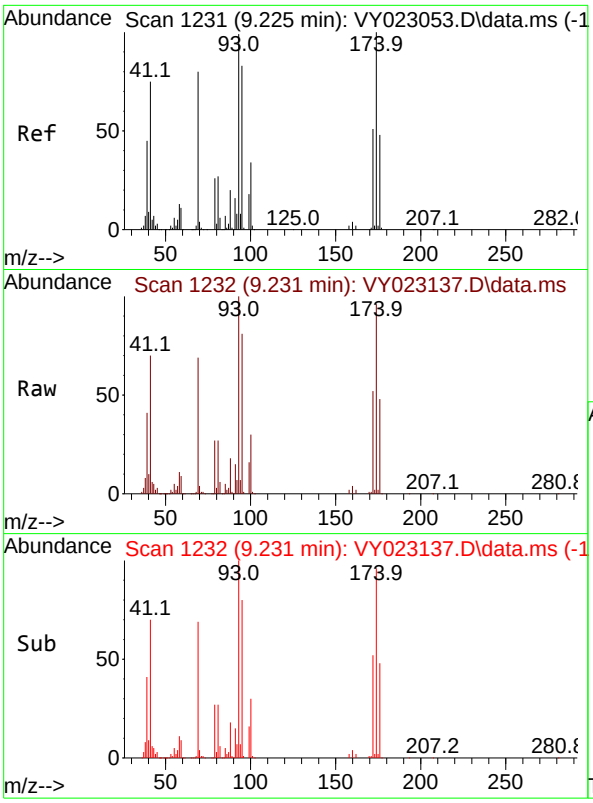


#48
Methyl methacrylate
Concen: 48.023 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

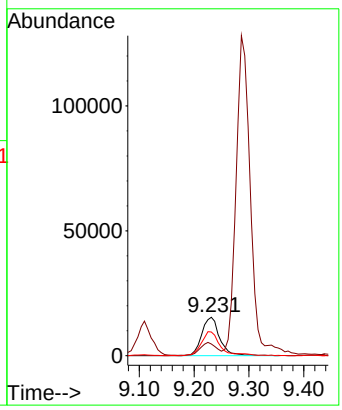




#49
1,4-Dioxane
Concen: 934.713 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

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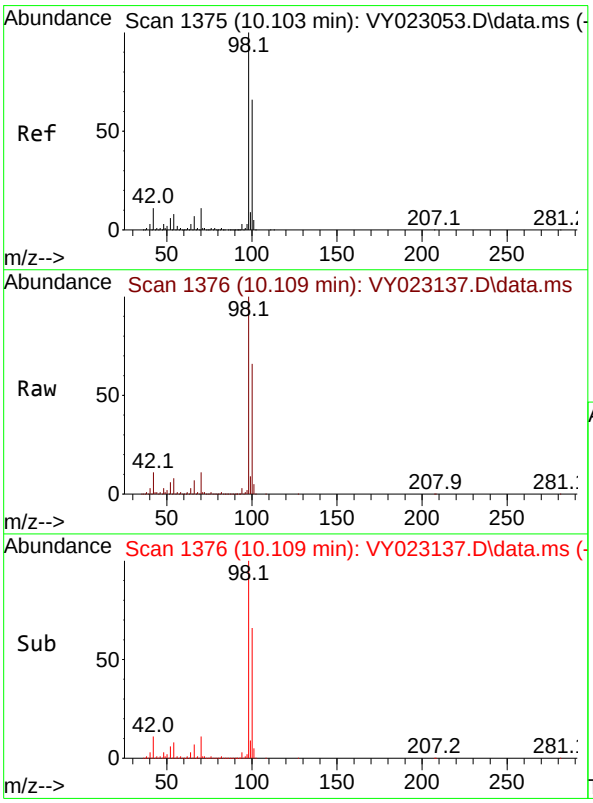
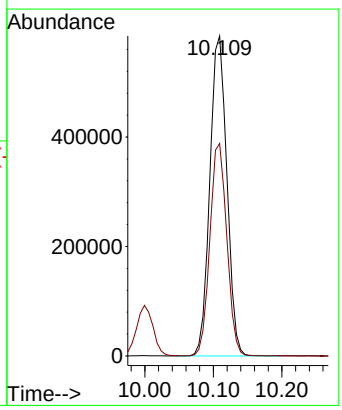
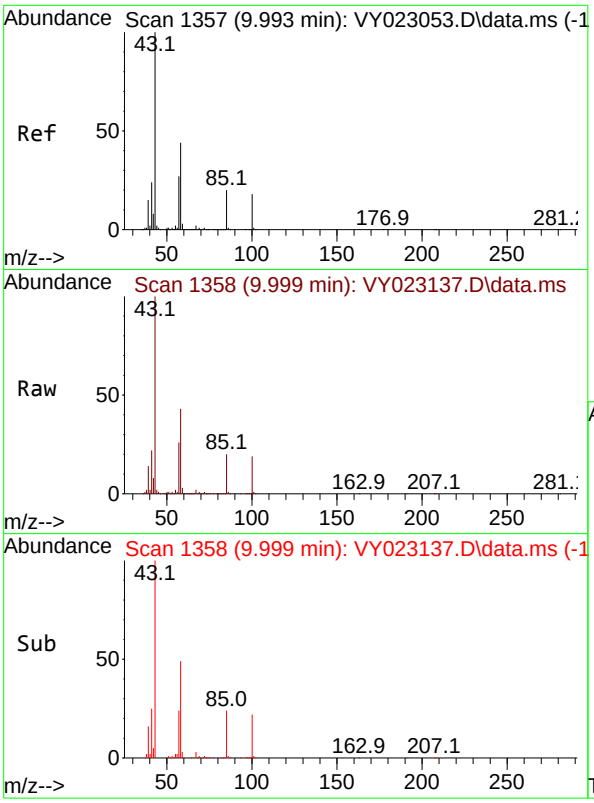


#50
Toluene-d8
Concen: 49.217 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 98 Resp: 1008048

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.3	78.5

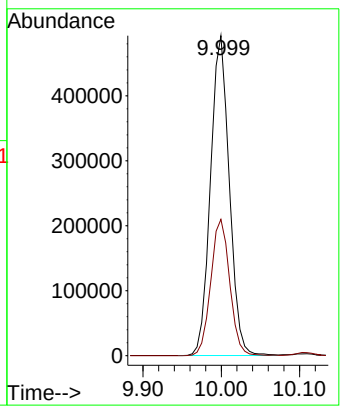




#51
4-Methyl-2-Pentanone
Concen: 240.906 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 82206

Ion	Ratio	Lower	Upper
43	100		
58	43.0	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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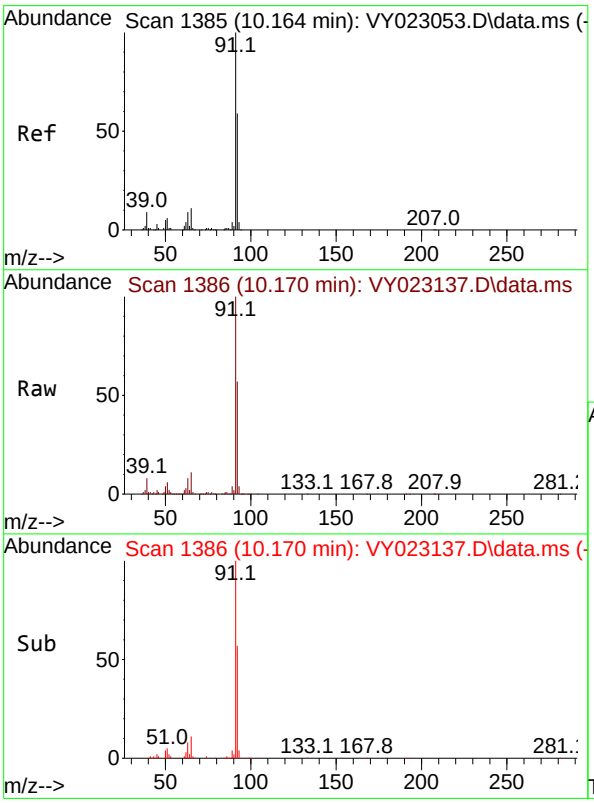
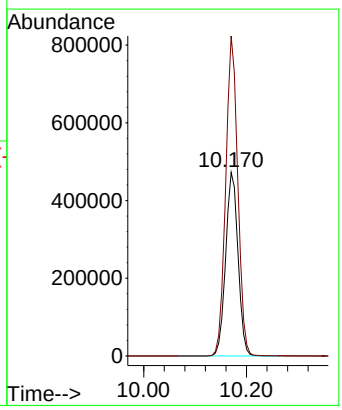
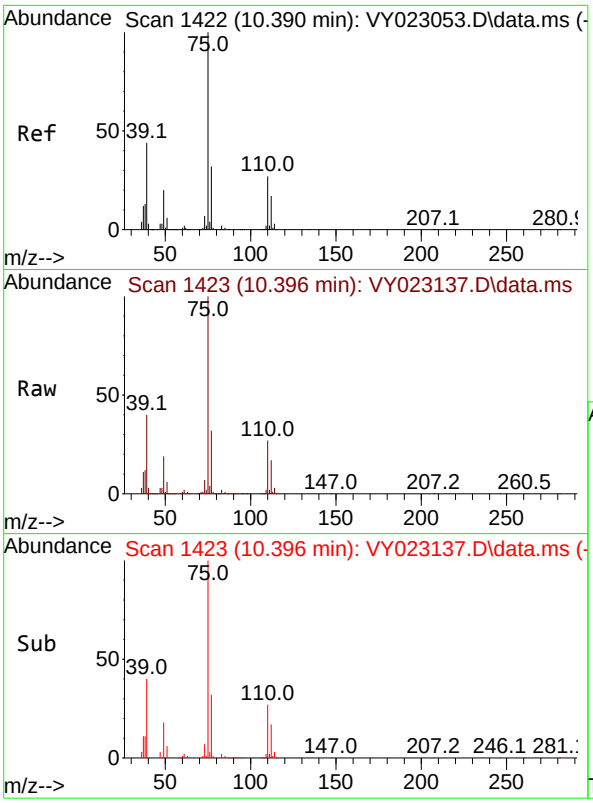


#52
Toluene
Concen: 51.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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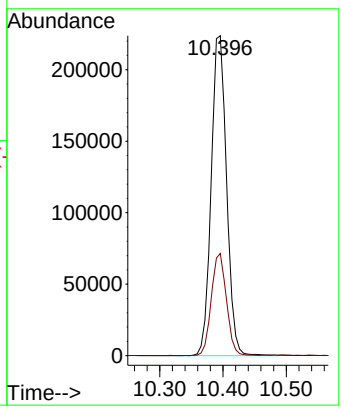
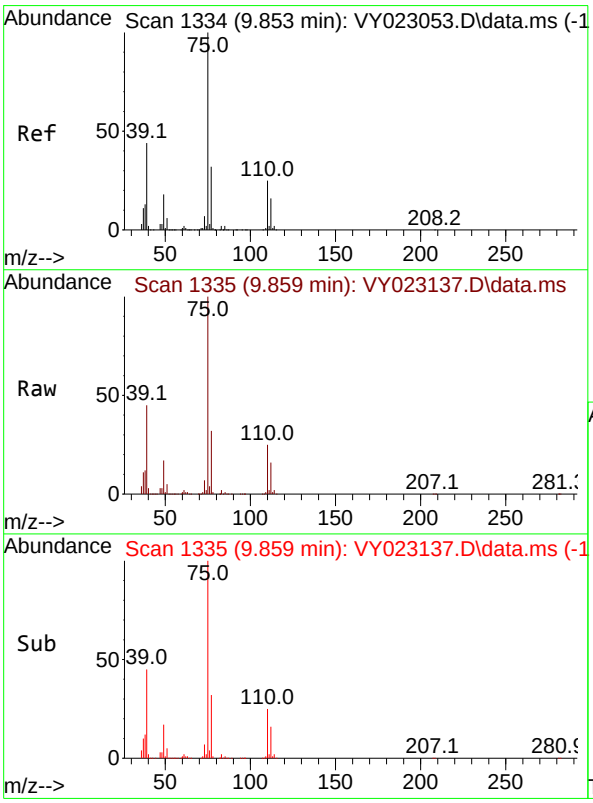
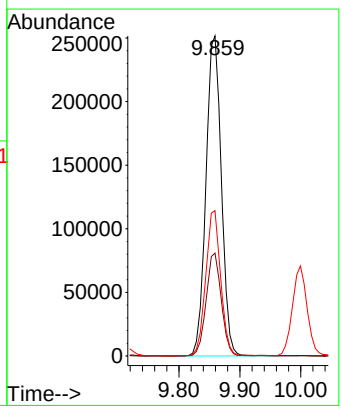


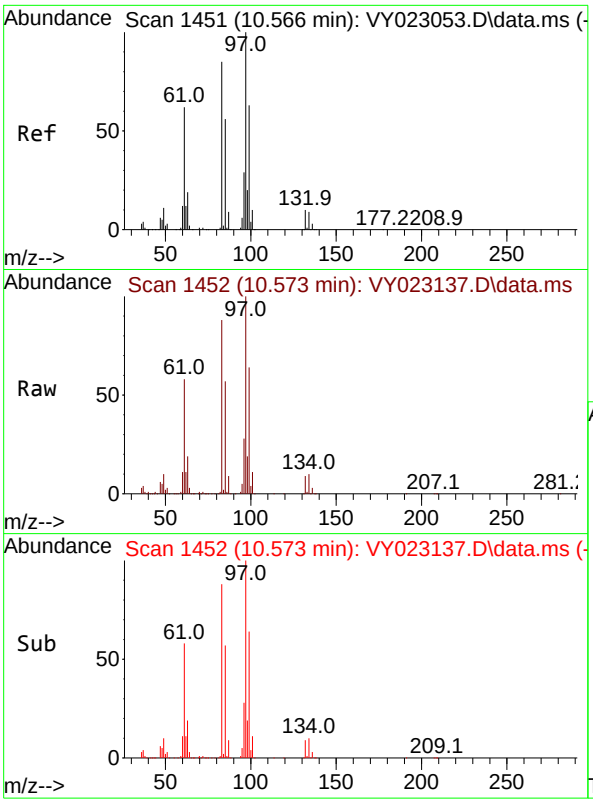


#54
cis-1,3-Dichloropropene
Concen: 50.516 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

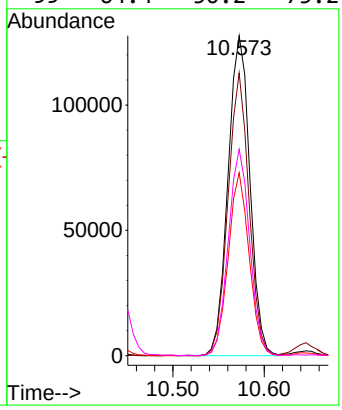




#55
1,1,2-Trichloroethane
Concen: 50.206 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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 :
VSTDCCC050

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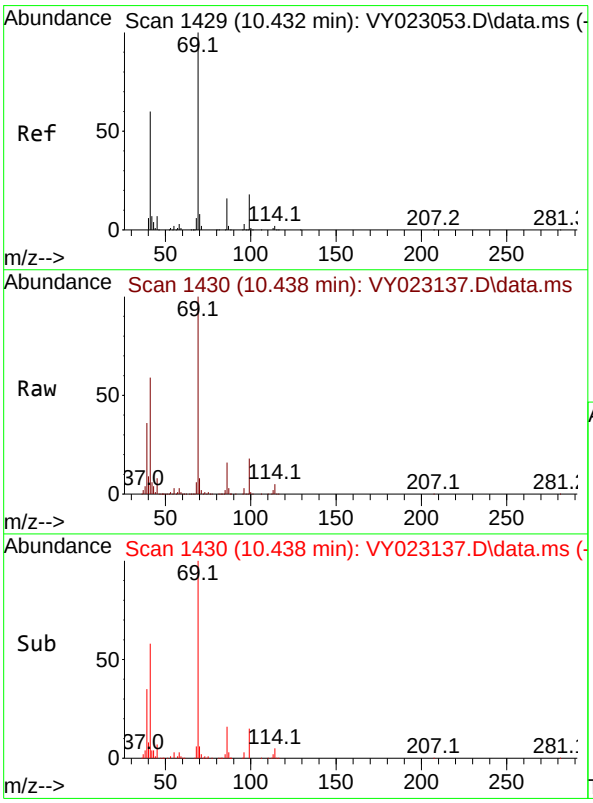
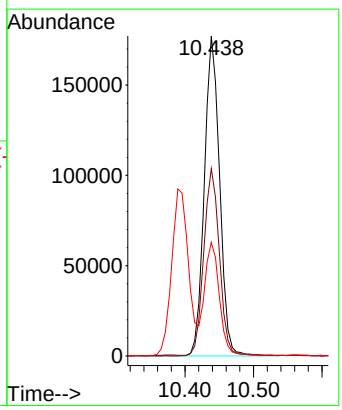
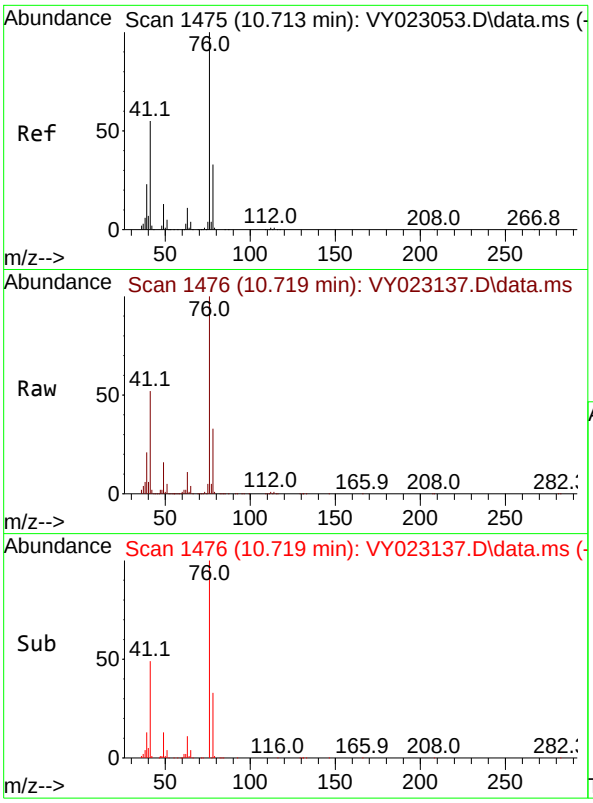


#56
Ethyl methacrylate
Concen: 50.859 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

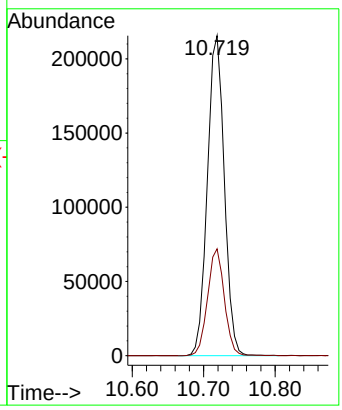




#57
1,3-Dichloropropane
Concen: 49.273 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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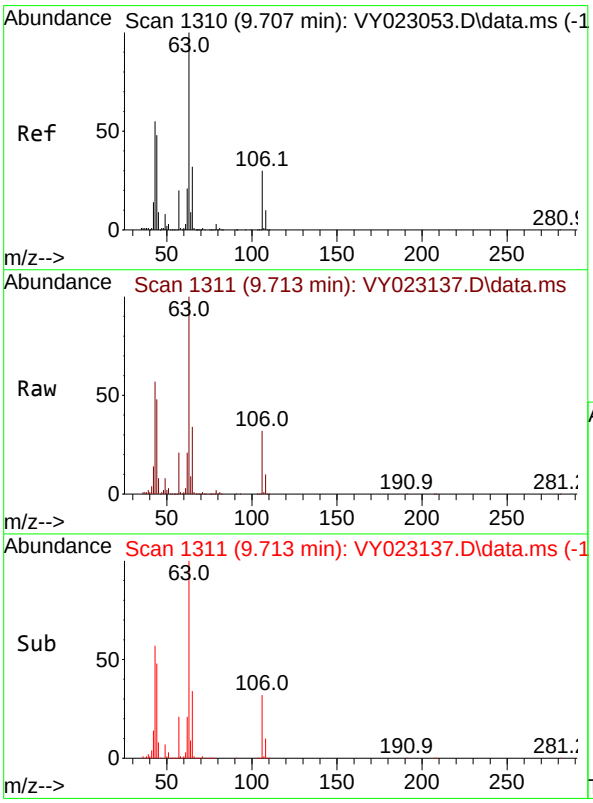
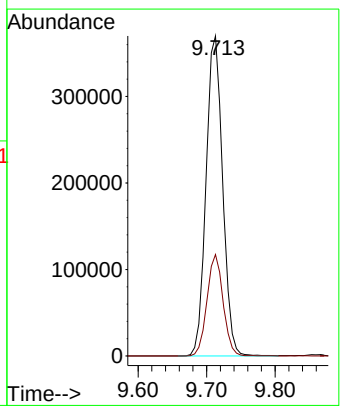
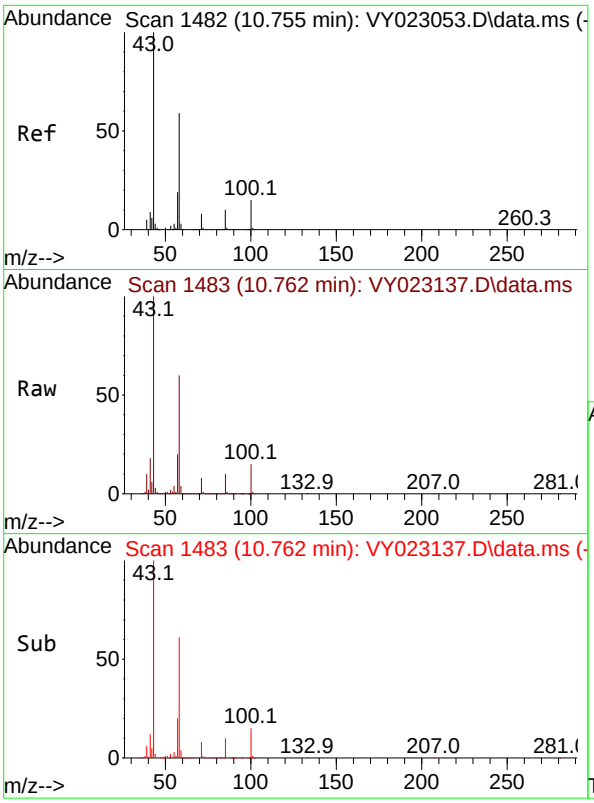


#58
2-Chloroethyl Vinyl ether
Concen: 242.835 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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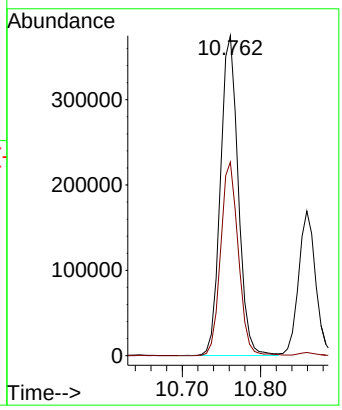
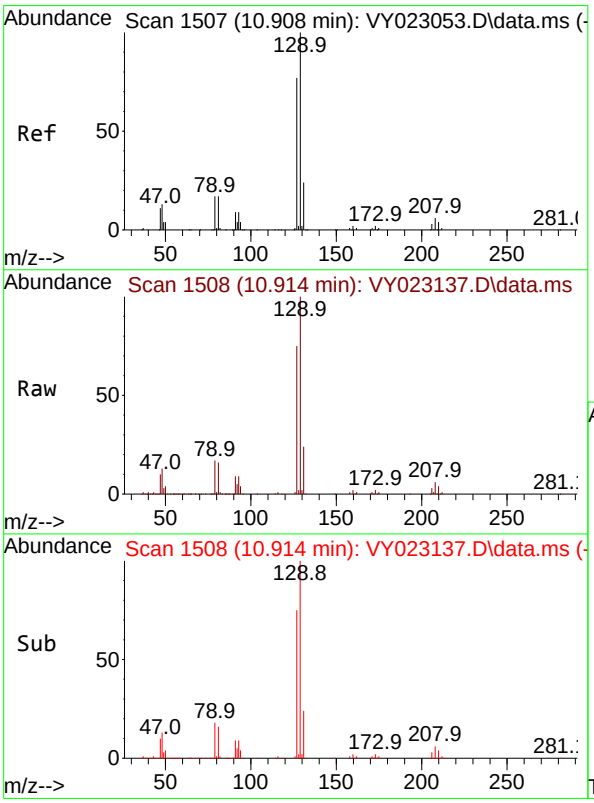
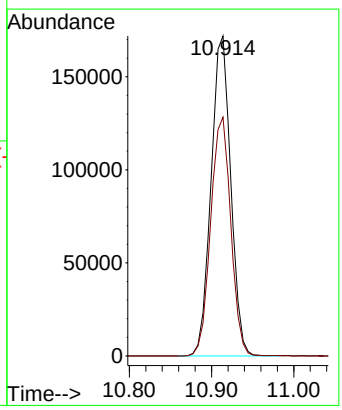


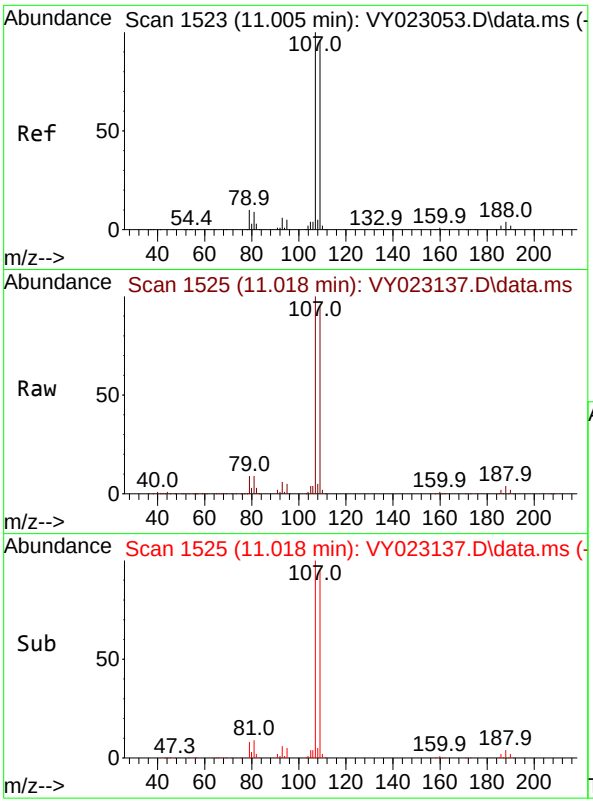


#60
Dibromochloromethane
Concen: 50.963 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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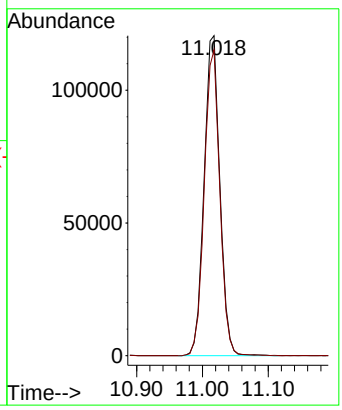
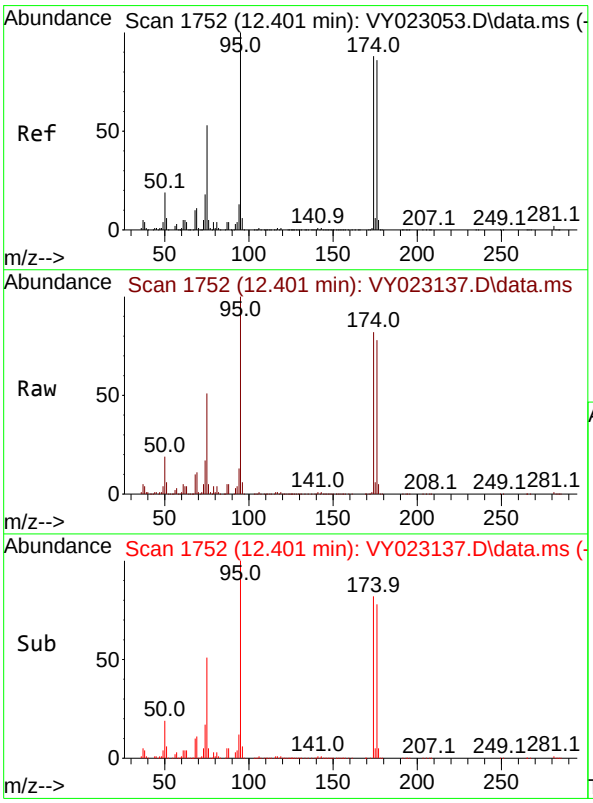
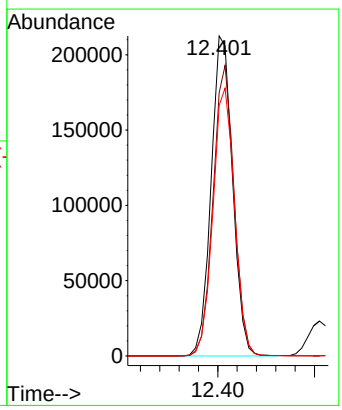


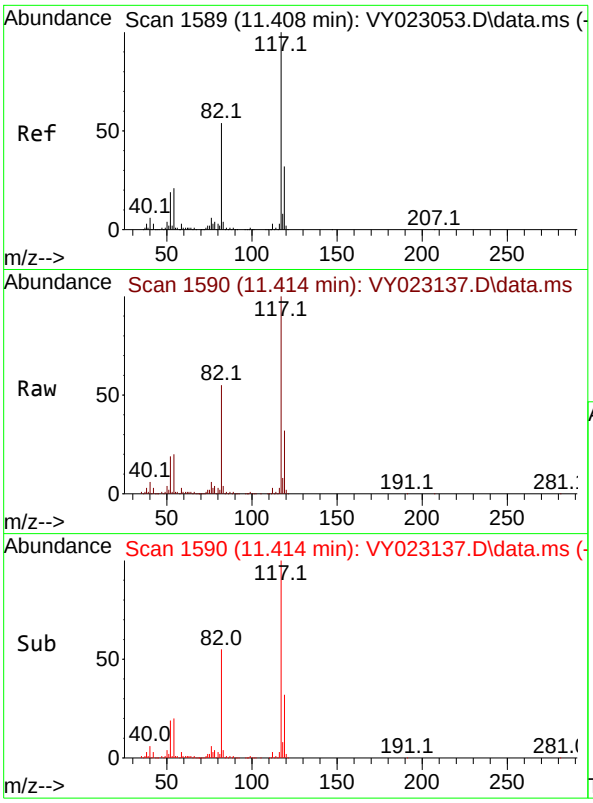


#62
4-Bromofluorobenzene
Concen: 49.618 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

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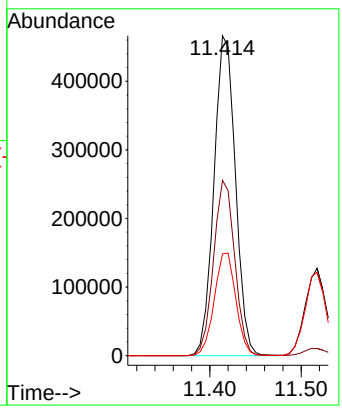
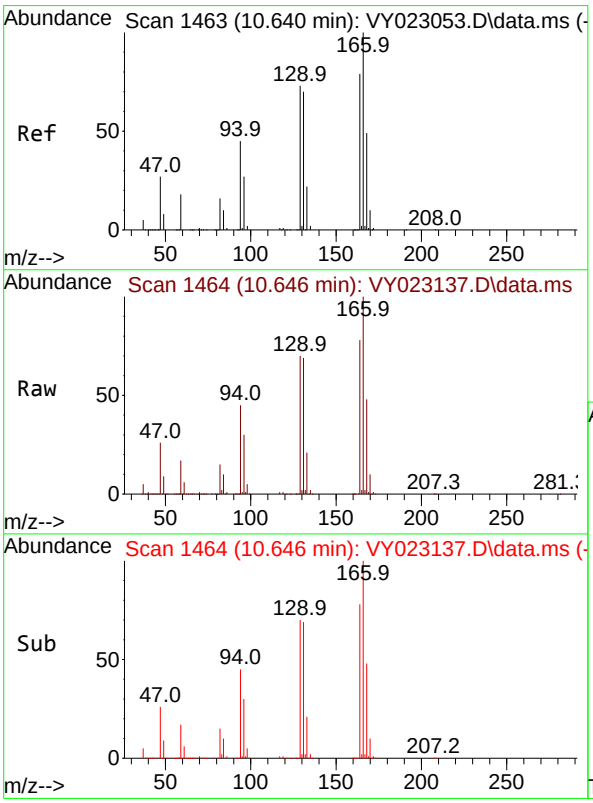
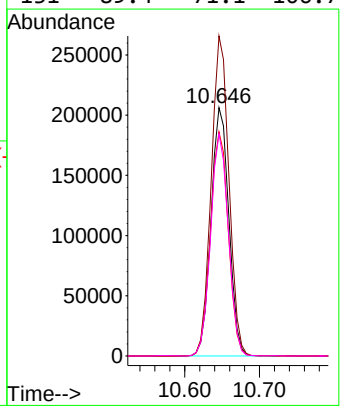


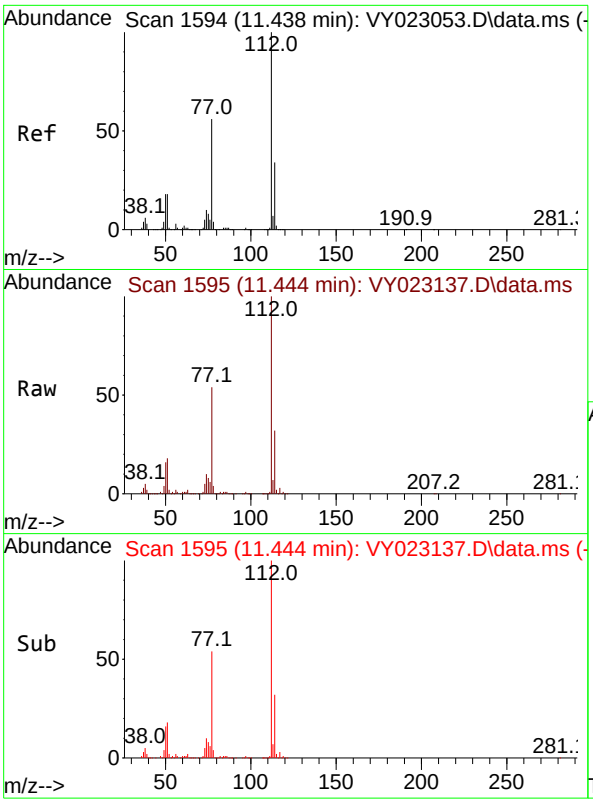


#64
Tetrachloroethene
Concen: 50.340 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

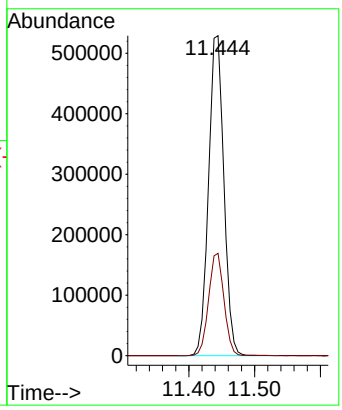




#65
Chlorobenzene
Concen: 52.238 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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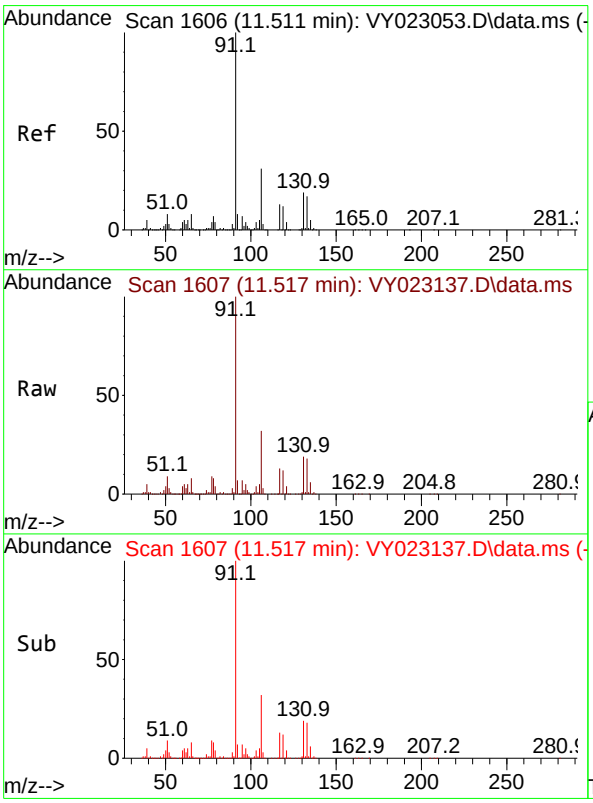
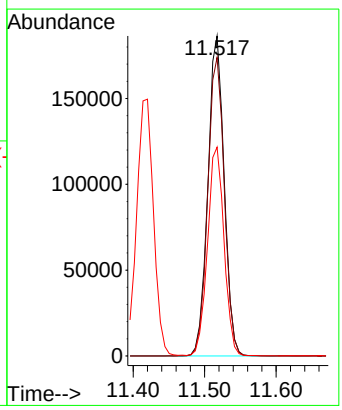
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

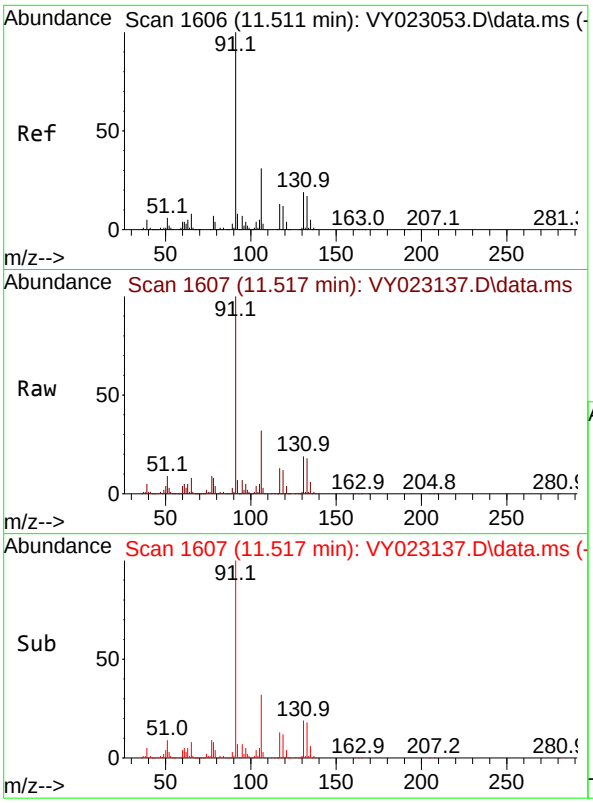


#66
1,1,1,2-Tetrachloroethane
Concen: 52.900 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

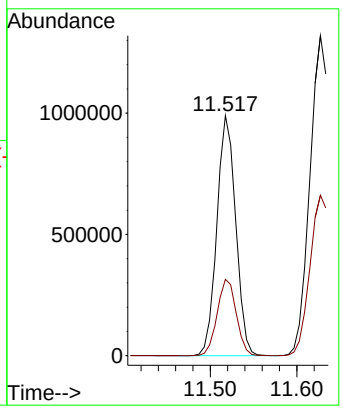




#67
Ethyl Benzene
Concen: 52.850 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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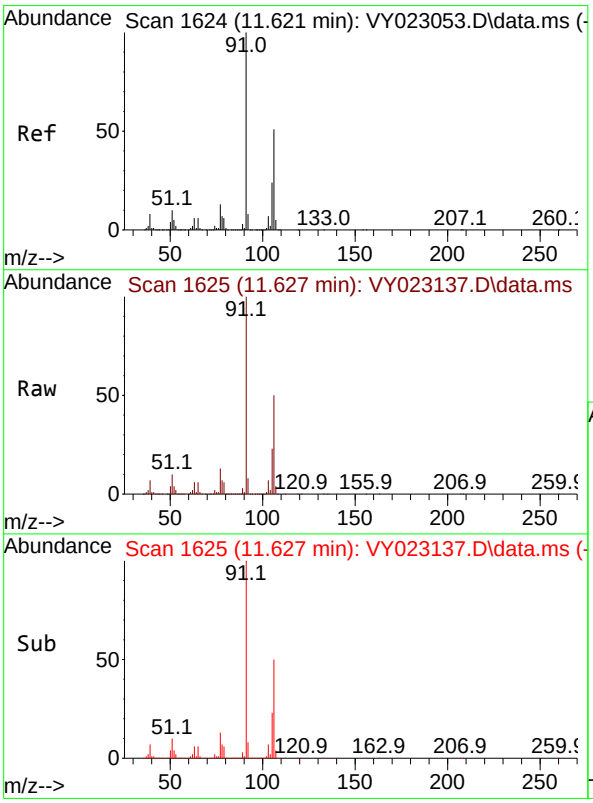
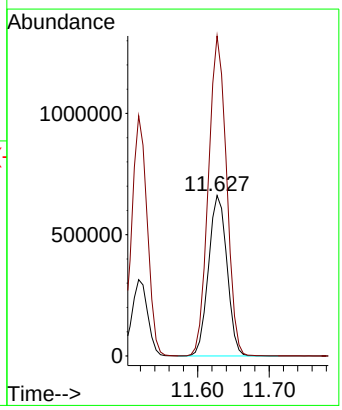
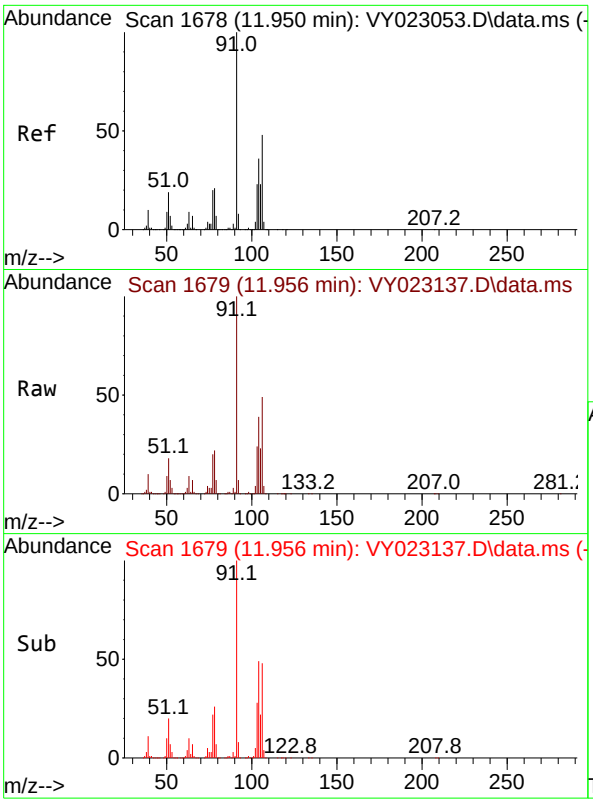


#68
m/p-Xylenes
Concen: 107.397 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 1186104

Ion	Ratio	Lower	Upper
106	100		
91	195.6	158.6	238.0

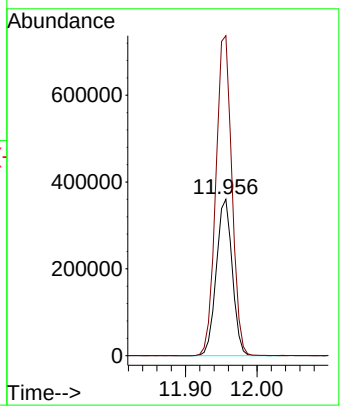




#69
o-Xylene
Concen: 53.940 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 55795

Ion	Ratio	Lower	Upper
106	100		
91	205.8	103.2	309.4



Instrument :
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ClientSampleId :
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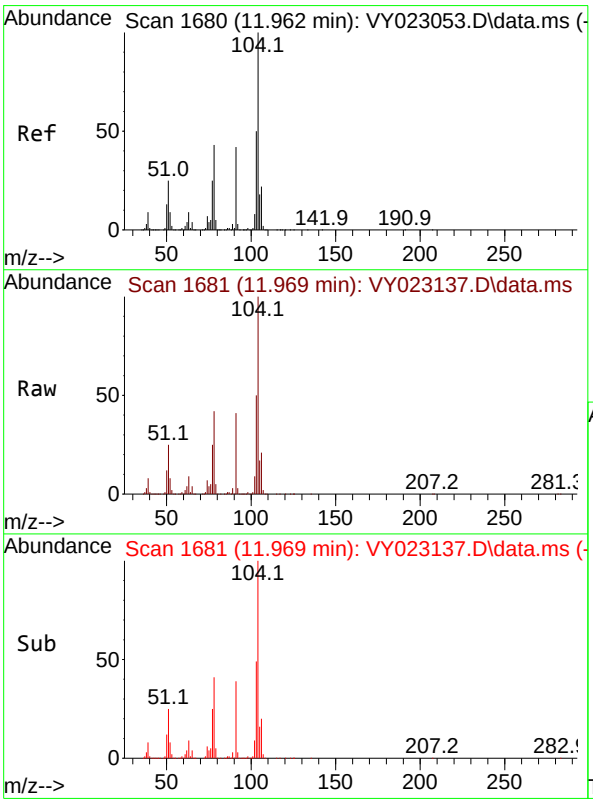
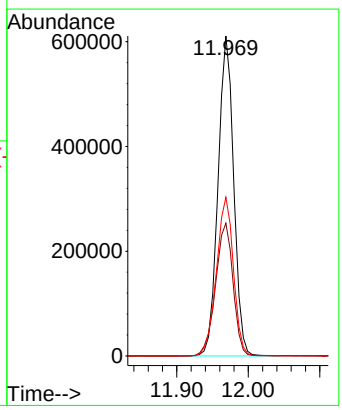
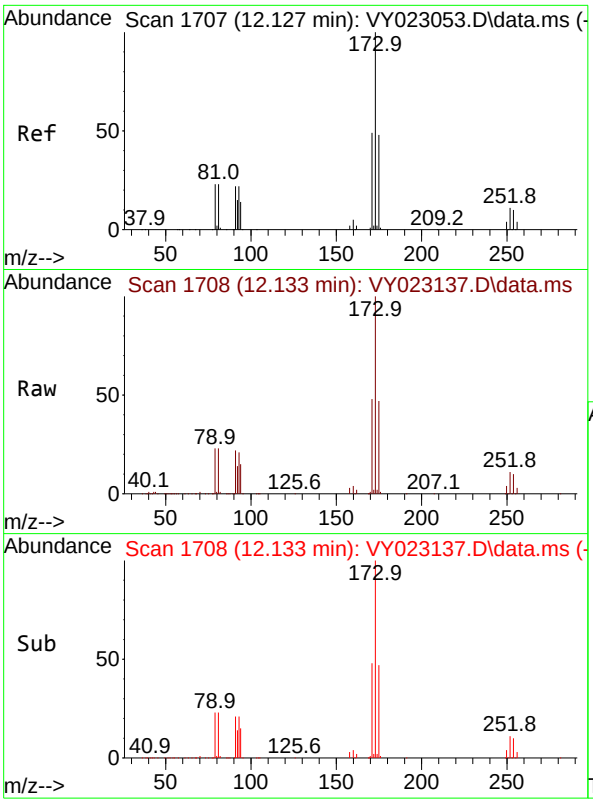


#70
Styrene
Concen: 55.007 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

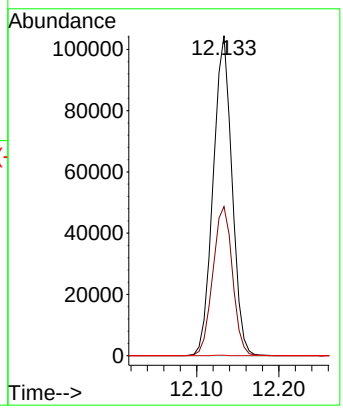




#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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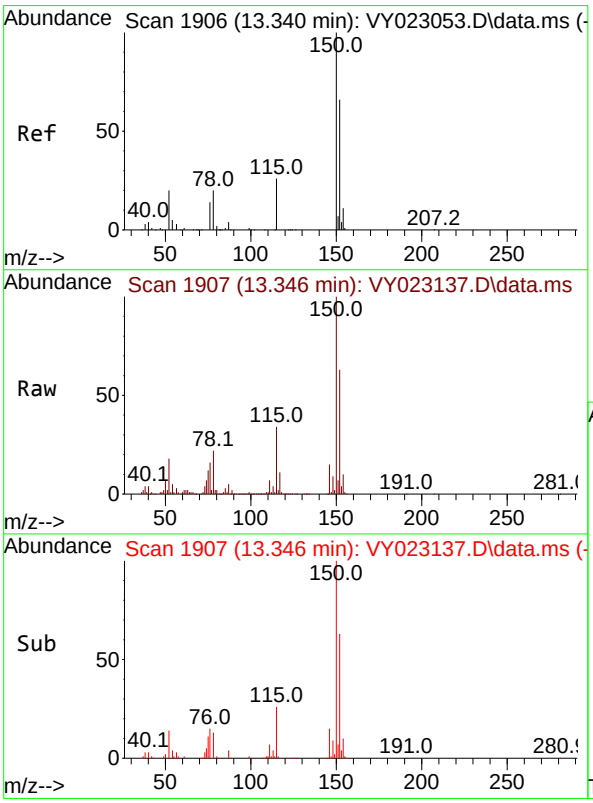
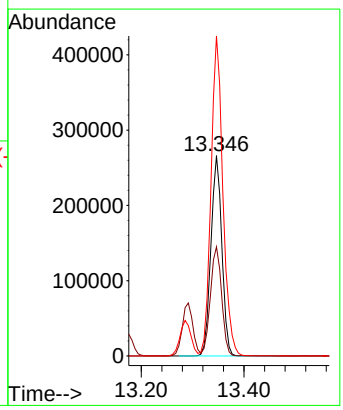
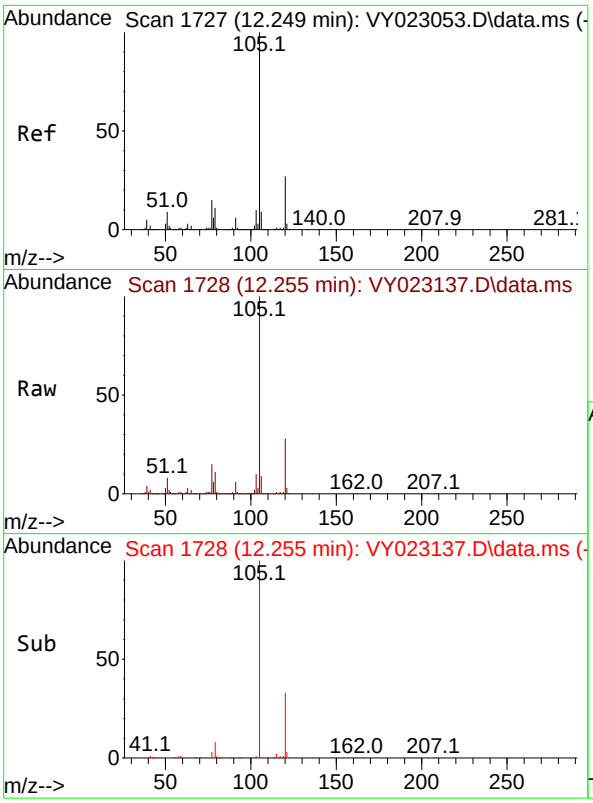


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

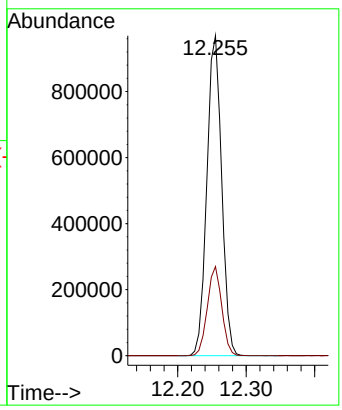




#73
Isopropylbenzene
Concen: 52.528 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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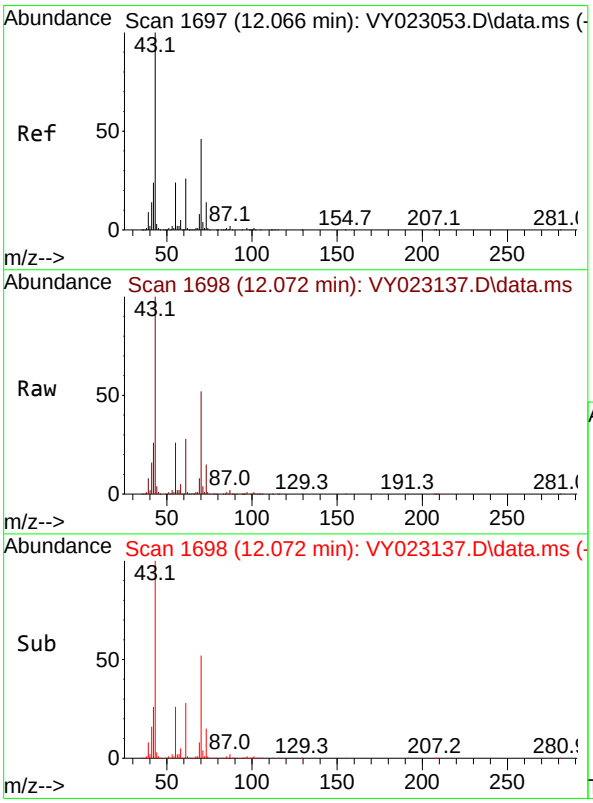
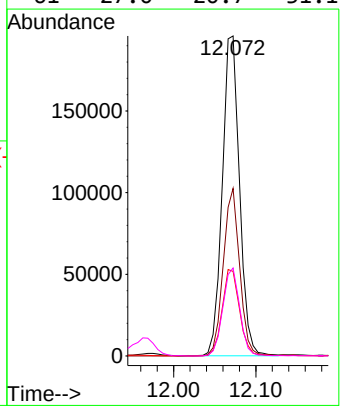
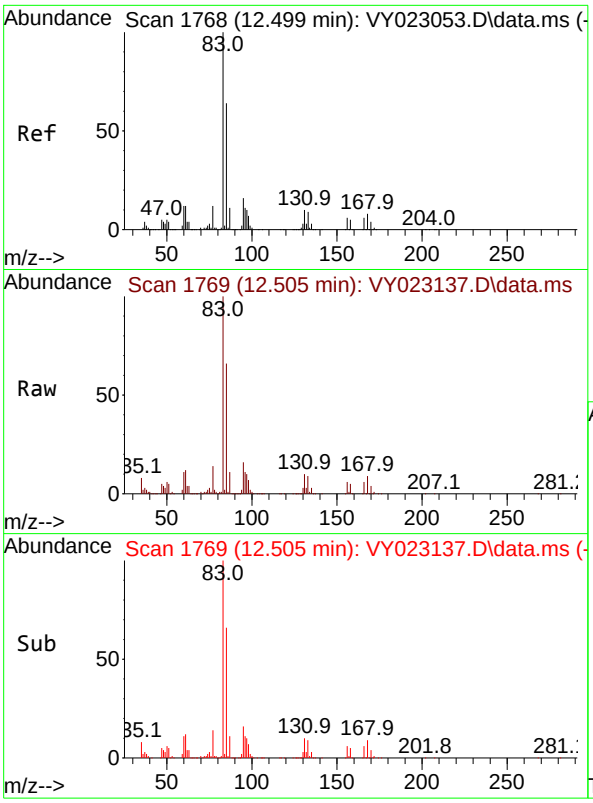


#74
N-amyl acetate
Concen: 48.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

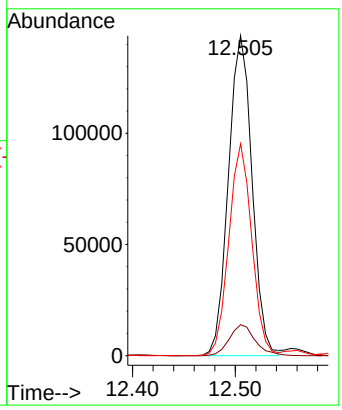




#75
1,1,2,2-Tetrachloroethane
Concen: 48.639 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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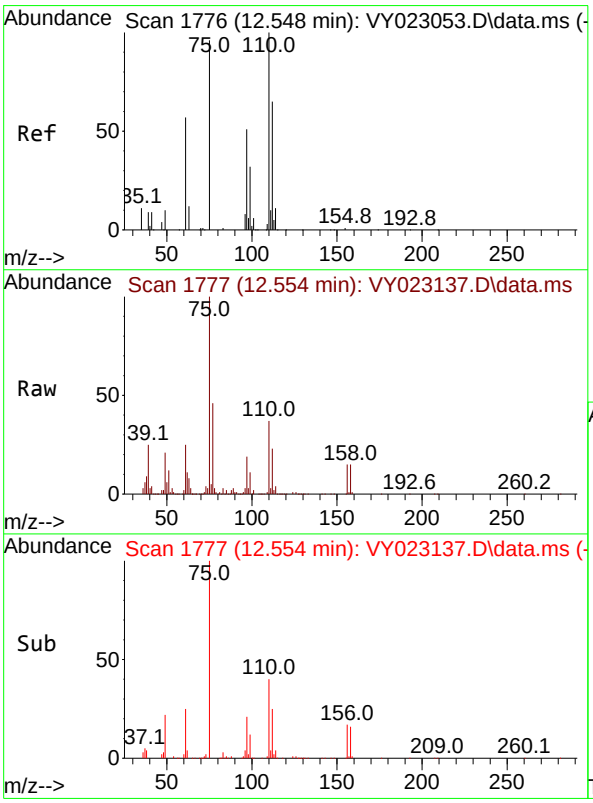
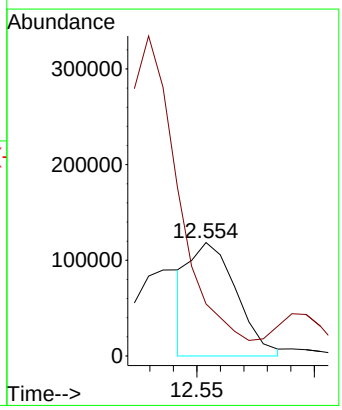
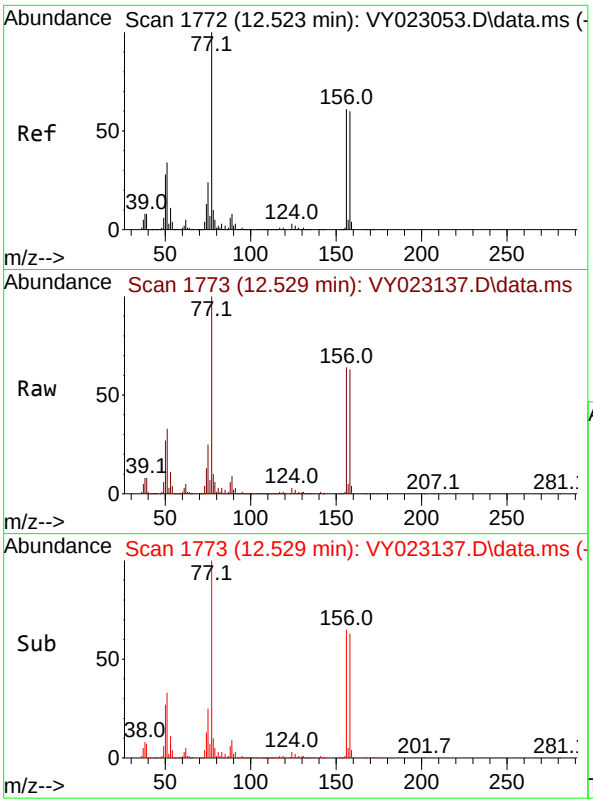


#76
1,2,3-Trichloropropane
Concen: 43.632 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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 :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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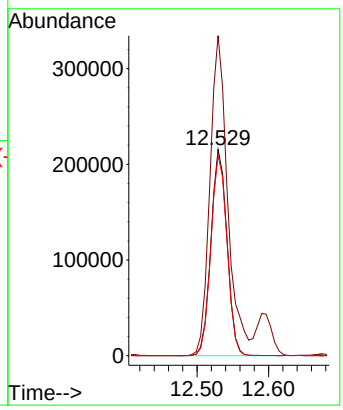
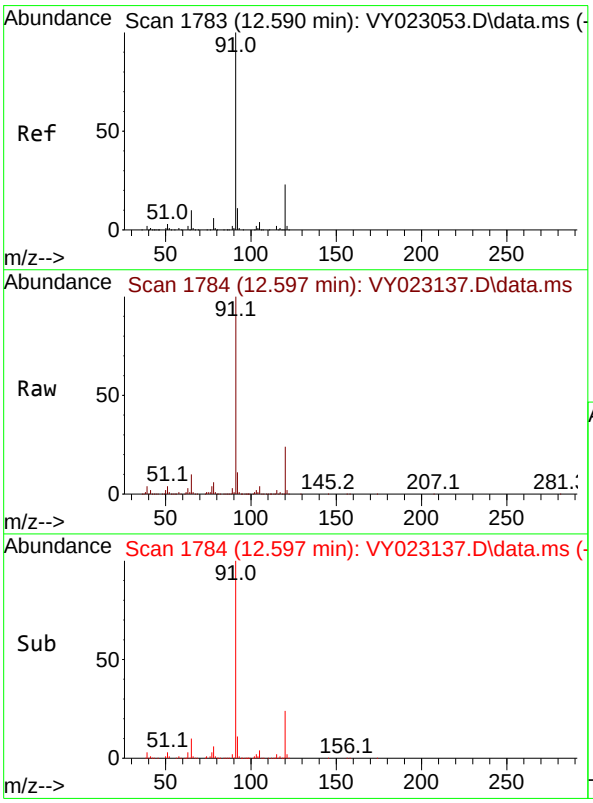
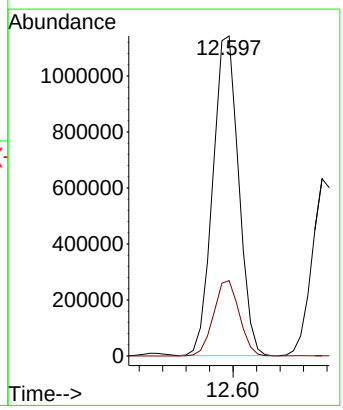


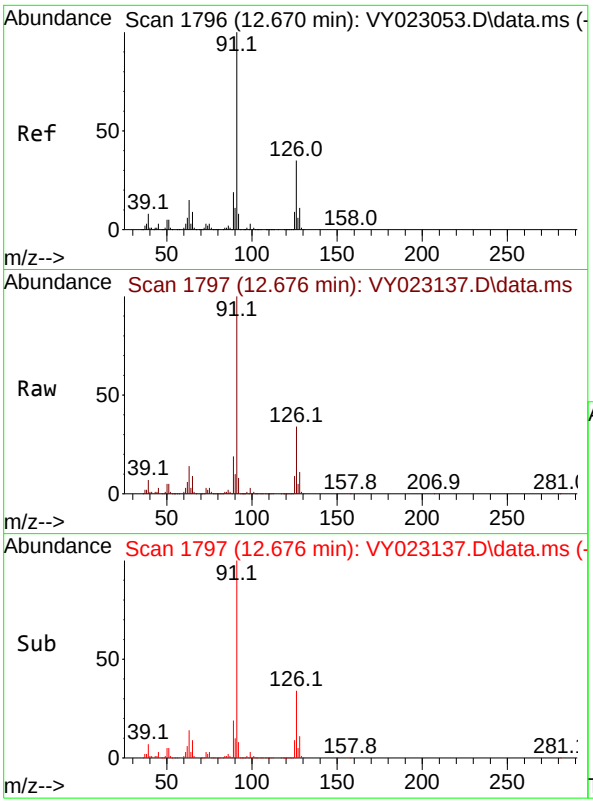


#78
n-propylbenzene
Concen: 52.806 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1741756

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5

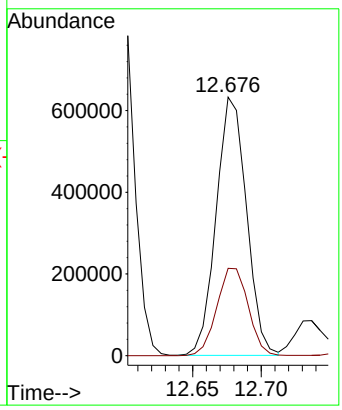




#79
2-Chlorotoluene
Concen: 51.594 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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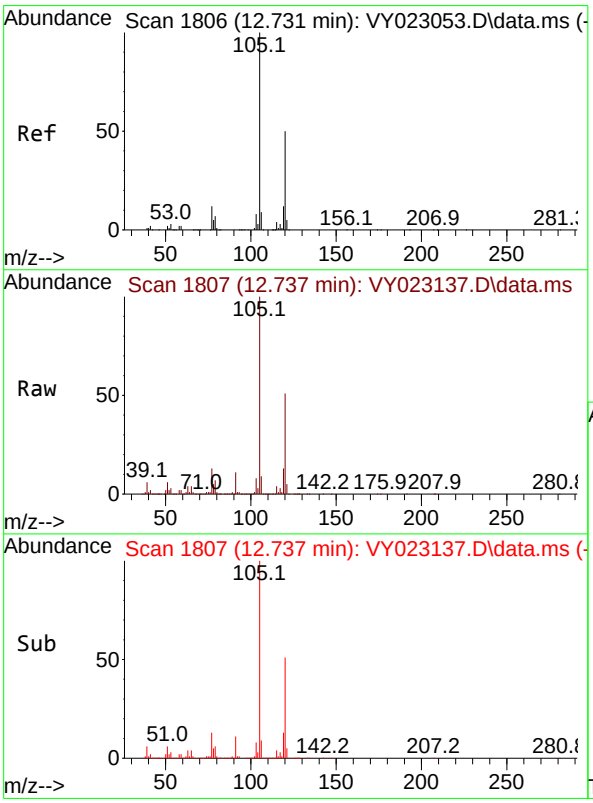
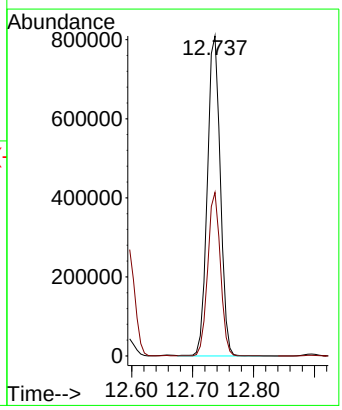
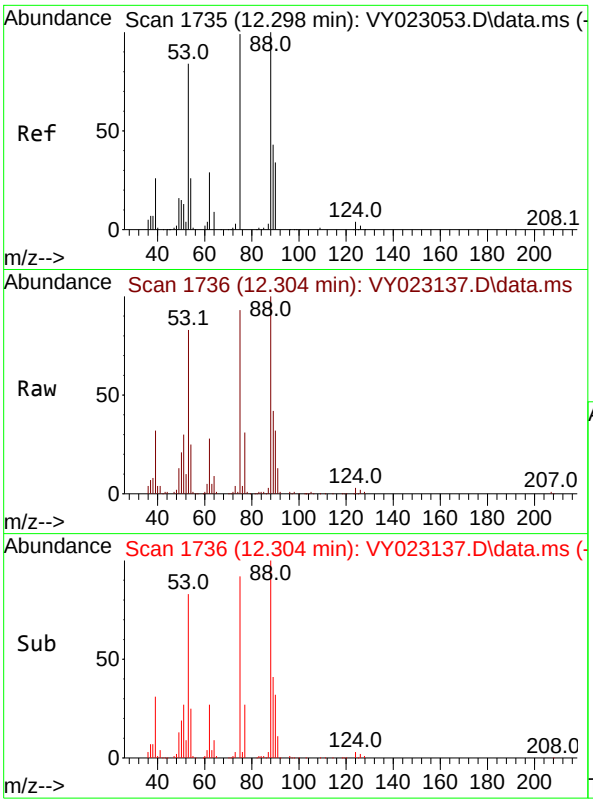


#80
1,3,5-Trimethylbenzene
Concen: 53.229 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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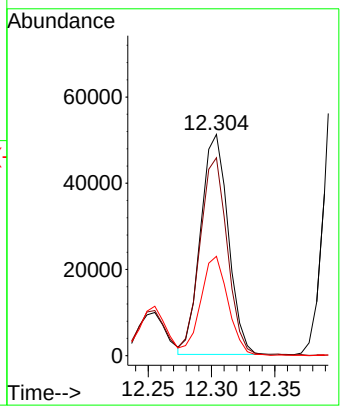
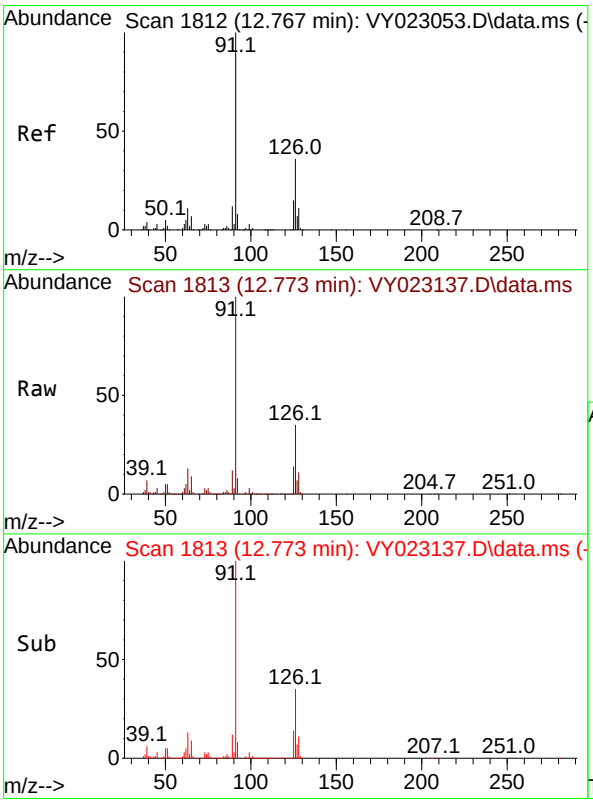
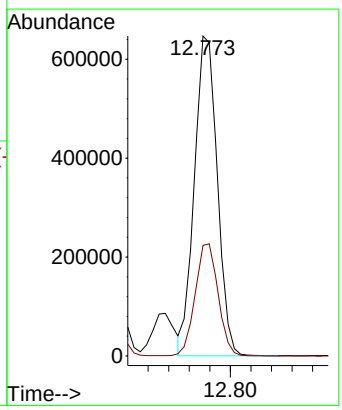


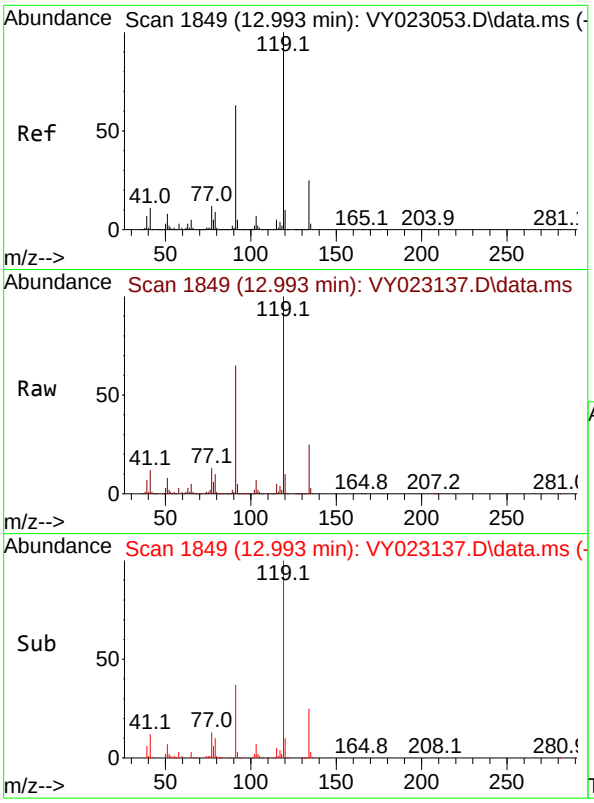


#82
4-Chlorotoluene
Concen: 51.036 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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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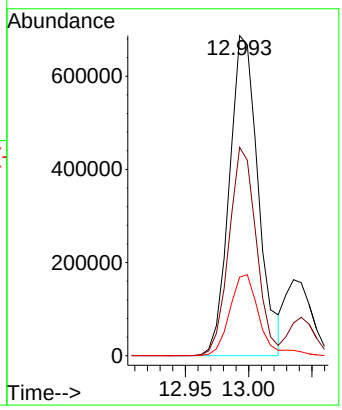
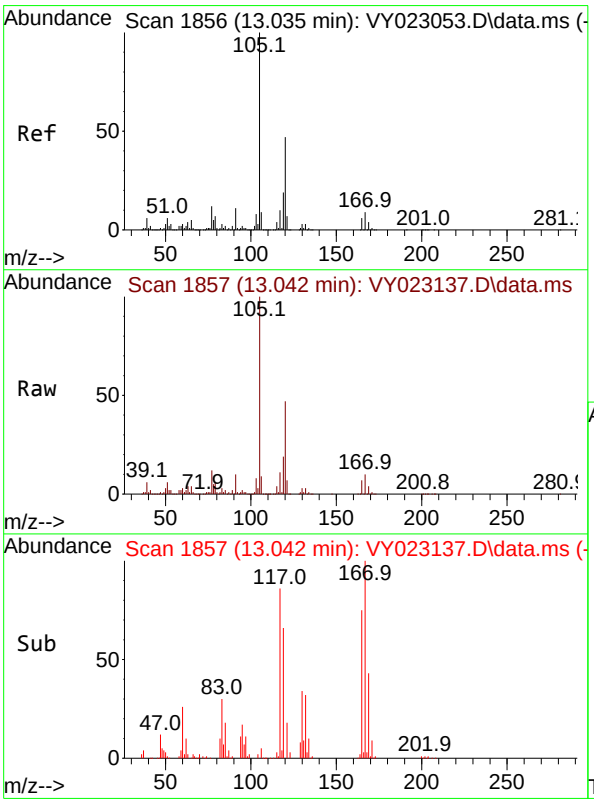
Supervised By :Mahesh Dadoda 08/20/2025

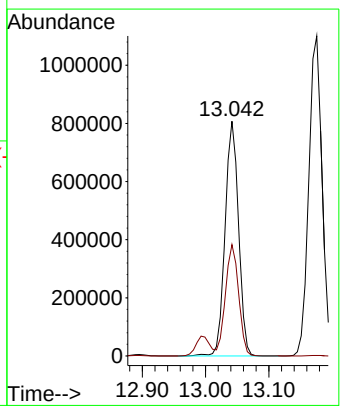


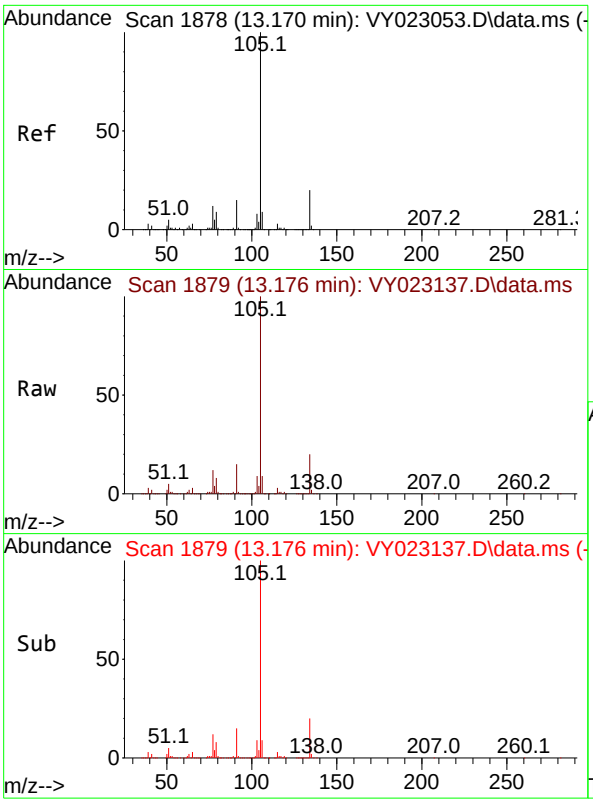


#84
1,2,4-Trimethylbenzene
Concen: 53.459 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

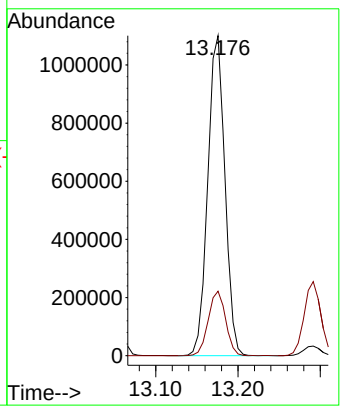
Tgt Ion:105 Resp: 159442

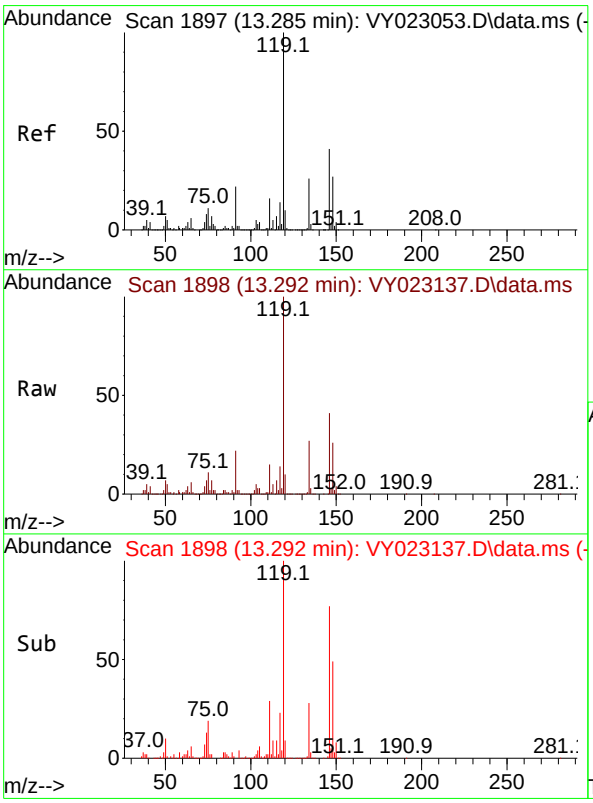
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

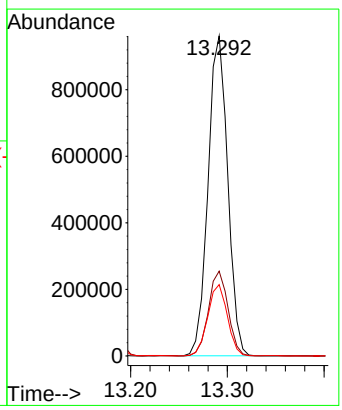


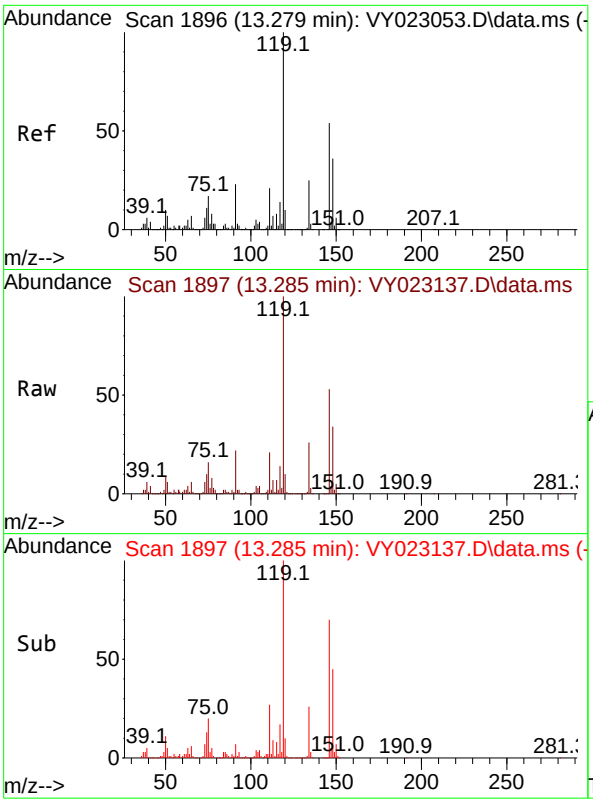


#86
p-Isopropyltoluene
Concen: 55.063 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

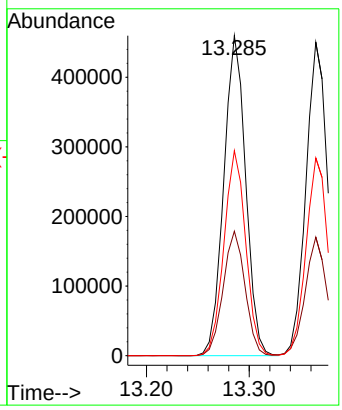




#87
1,3-Dichlorobenzene
Concen: 52.231 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 68078

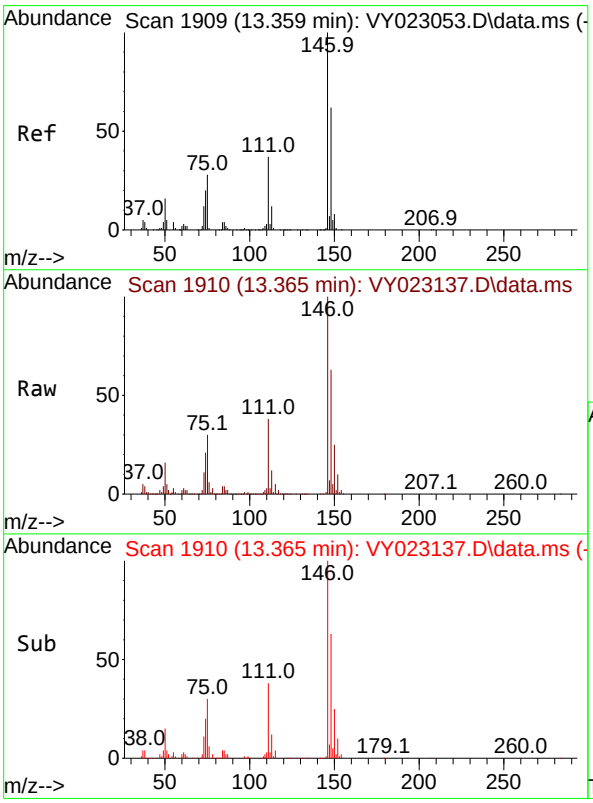
Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.6	58.7
148	63.7	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

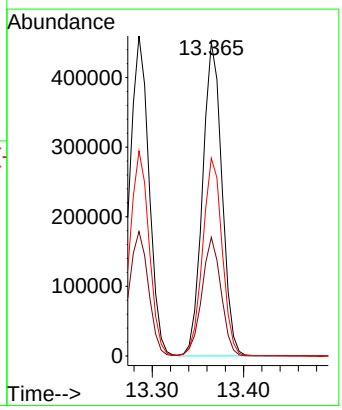
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

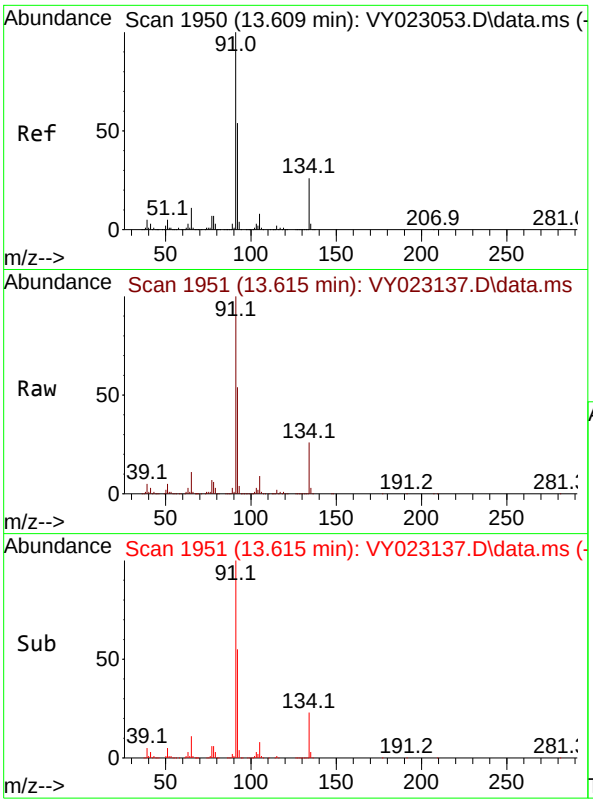


#88
1,4-Dichlorobenzene
Concen: 51.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

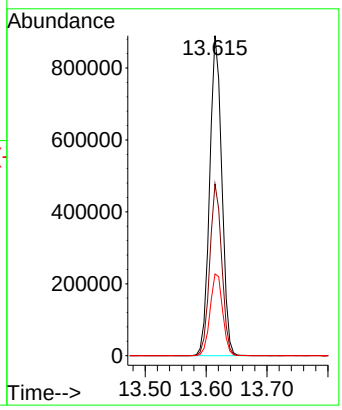




#89
n-Butylbenzene
Concen: 54.384 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 123164

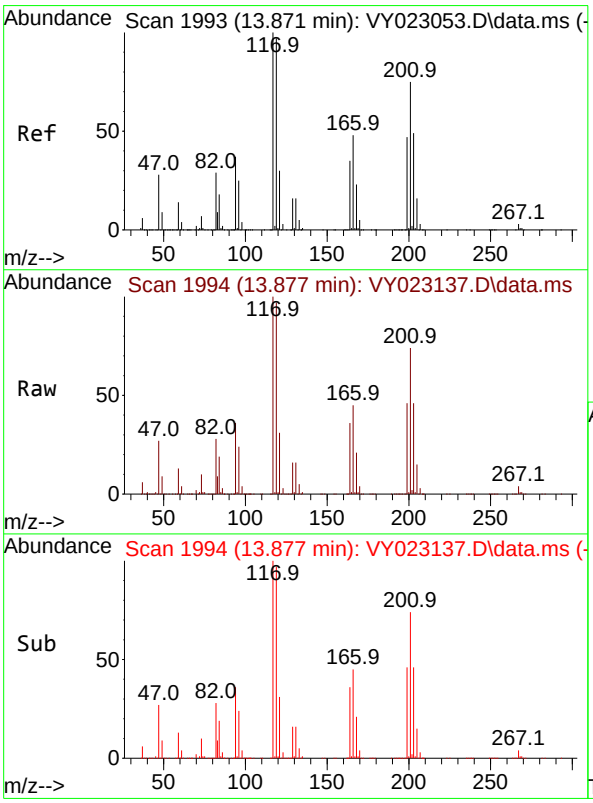
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	26.4	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

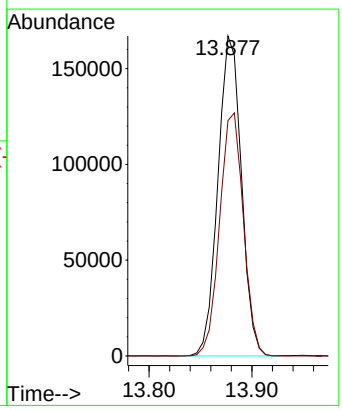
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

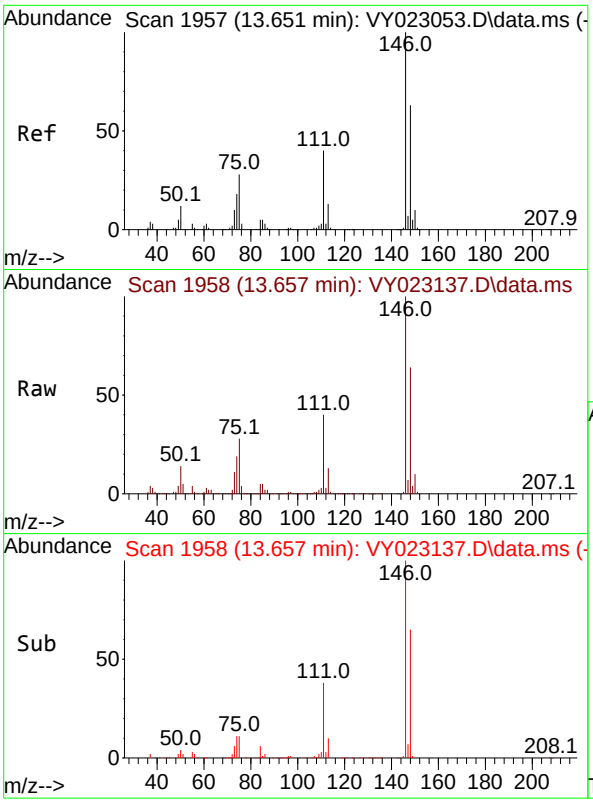


#90
Hexachloroethane
Concen: 52.354 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 264268

Ion	Ratio	Lower	Upper
117	100		
201	77.1	38.4	115.1

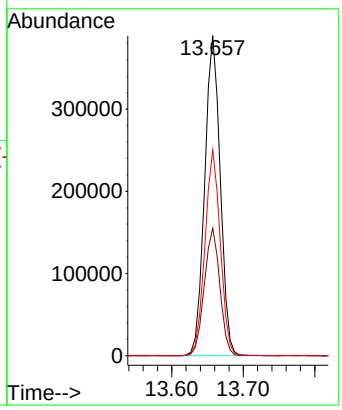




#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

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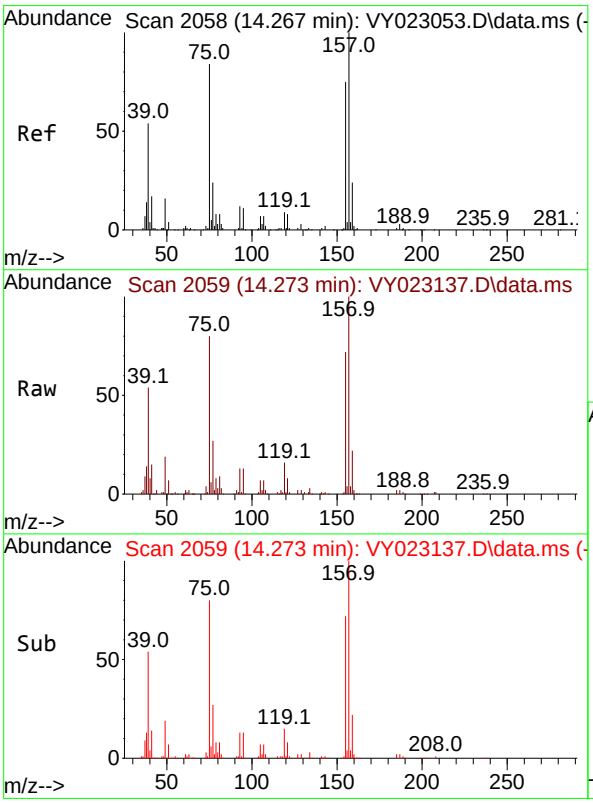
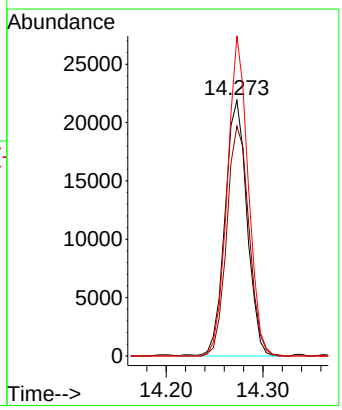
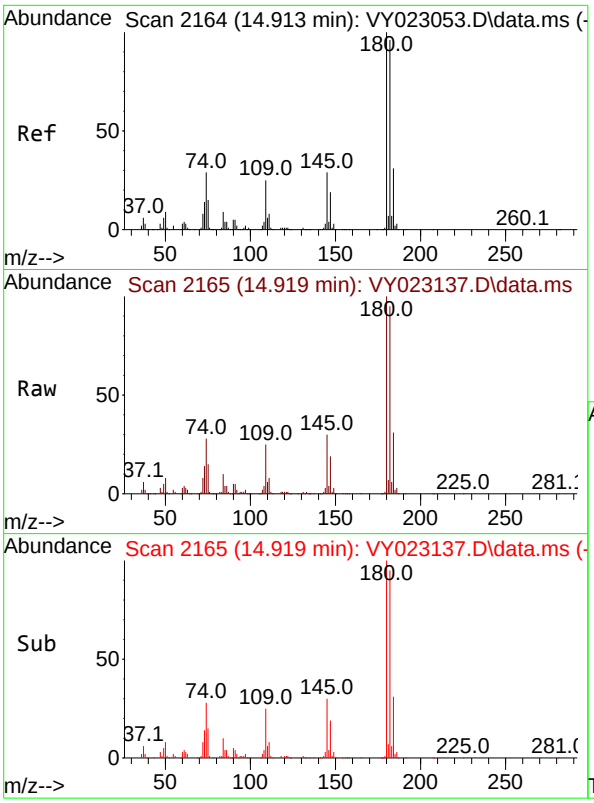


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.081 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

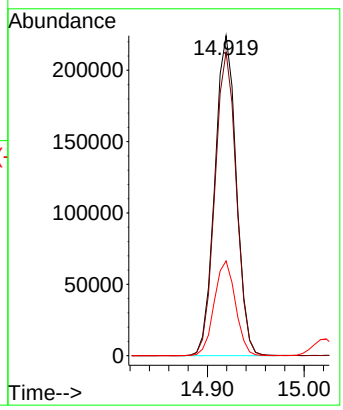




#93
1,2,4-Trichlorobenzene
Concen: 51.158 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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
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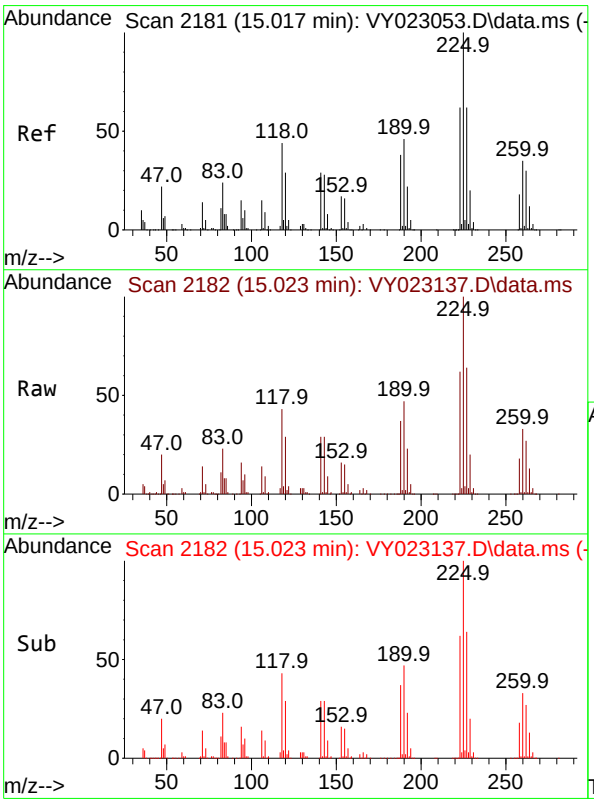
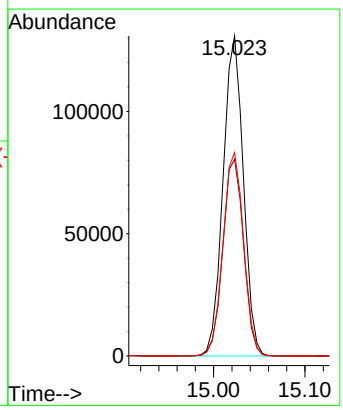
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

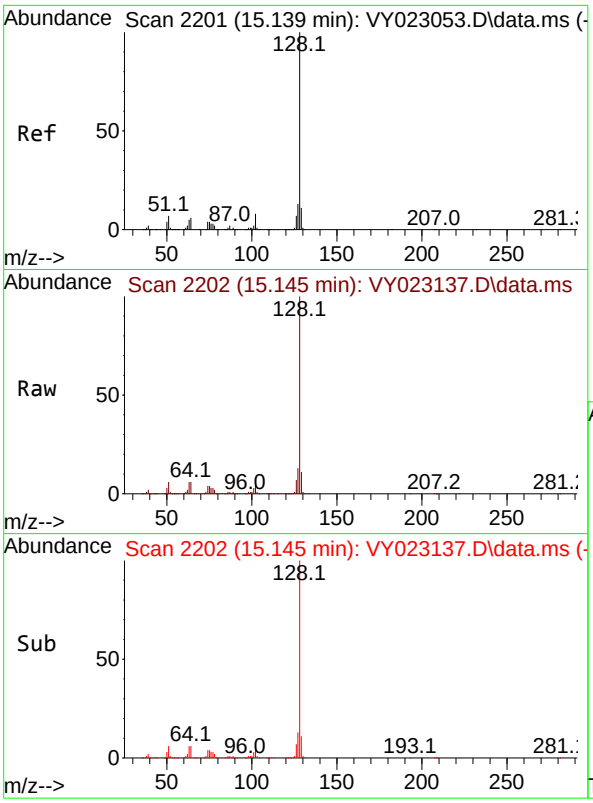


#94
Hexachlorobutadiene
Concen: 50.885 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

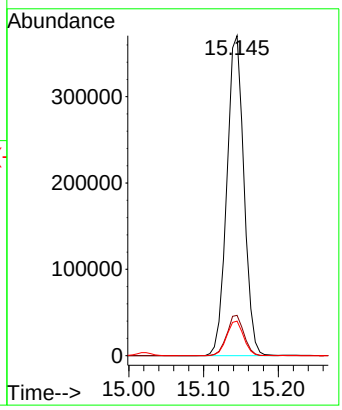




#95
Naphthalene
Concen: 51.208 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:128 Resp: 59025

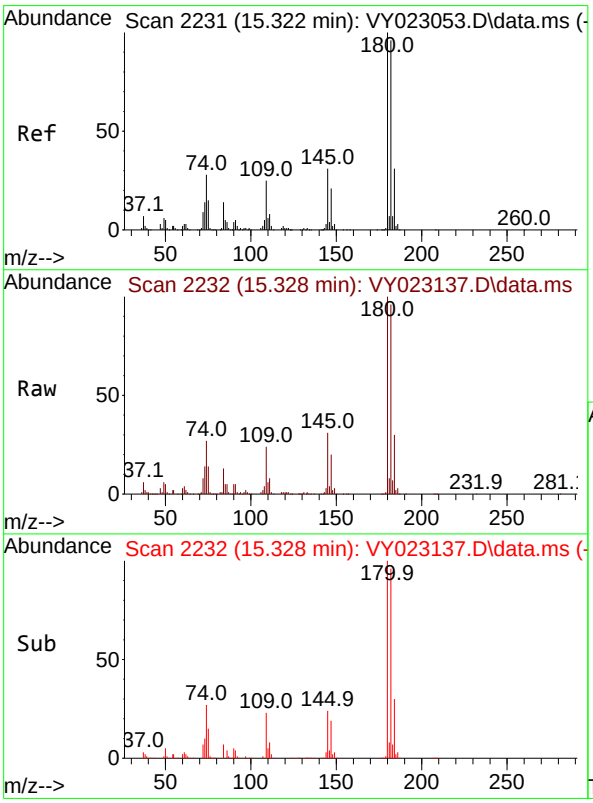
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	10.9	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

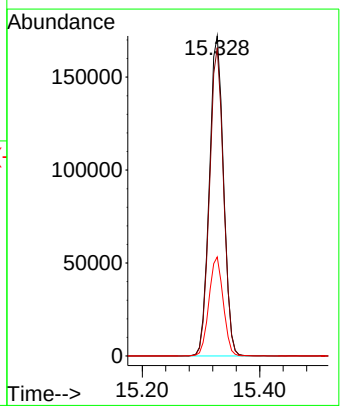
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#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



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

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

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

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

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

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

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.: Q2819

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.

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.:	Q2819
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

Manual Integrations APPROVED

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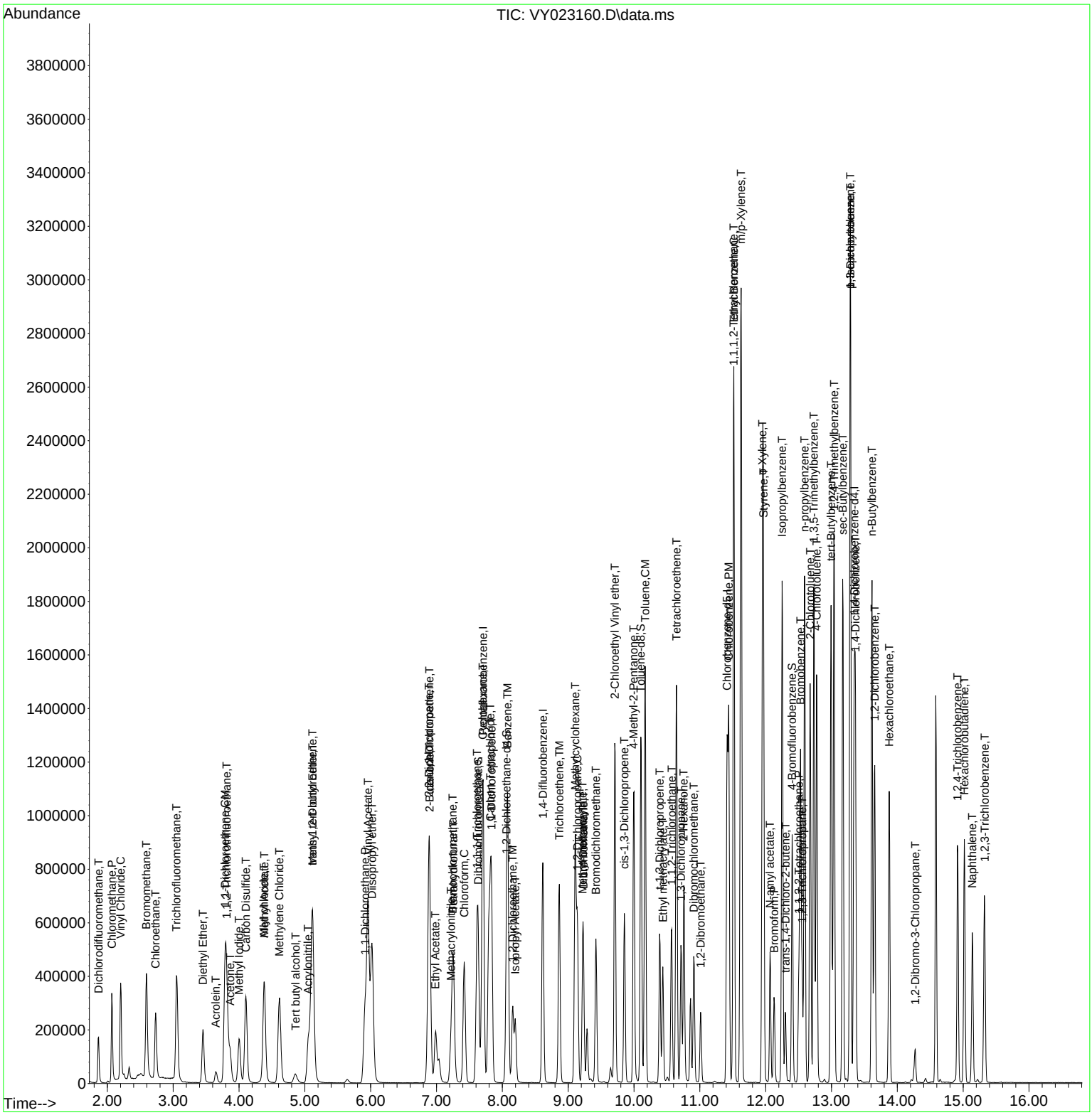
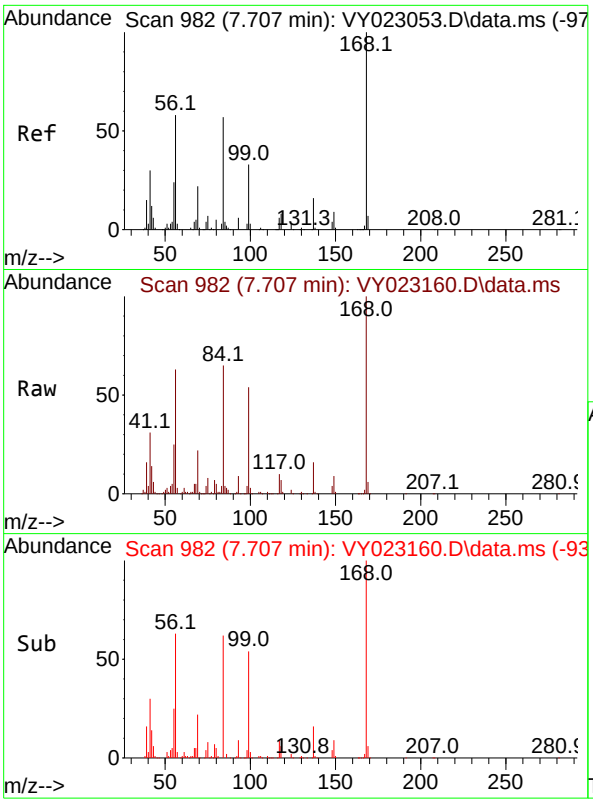
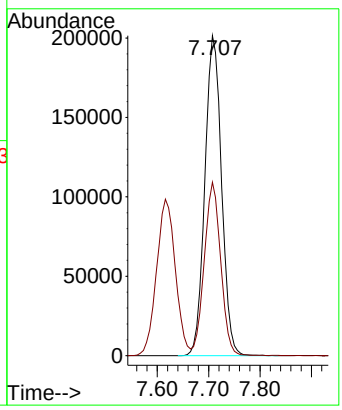




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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
APPROVED

Reviewed By :John Carlone 08/20/2025
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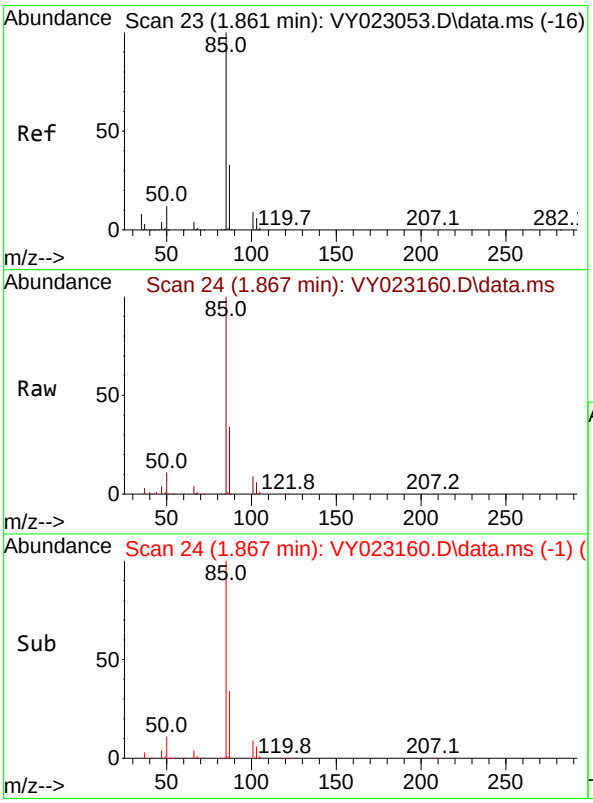
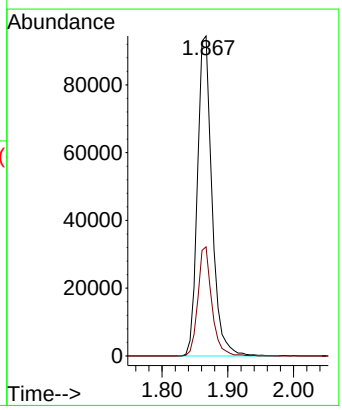
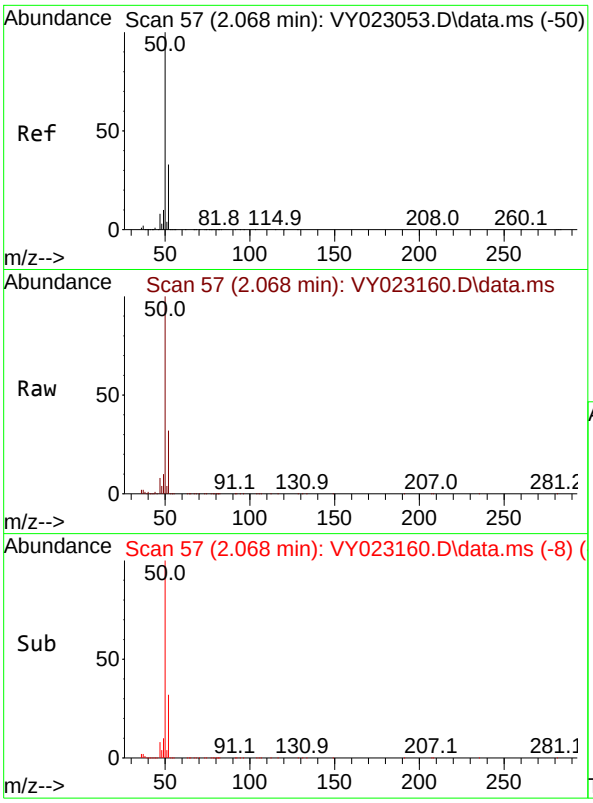


#2
Dichlorodifluoromethane
Concen: 39.160 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 85 Resp: 145094

Ion	Ratio	Lower	Upper
85	100		
87	34.1	16.6	49.8

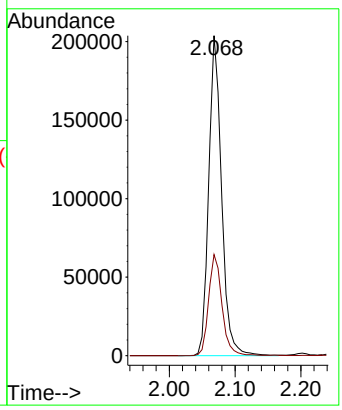




#3
Chloromethane
Concen: 46.137 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 50 Resp: 27687

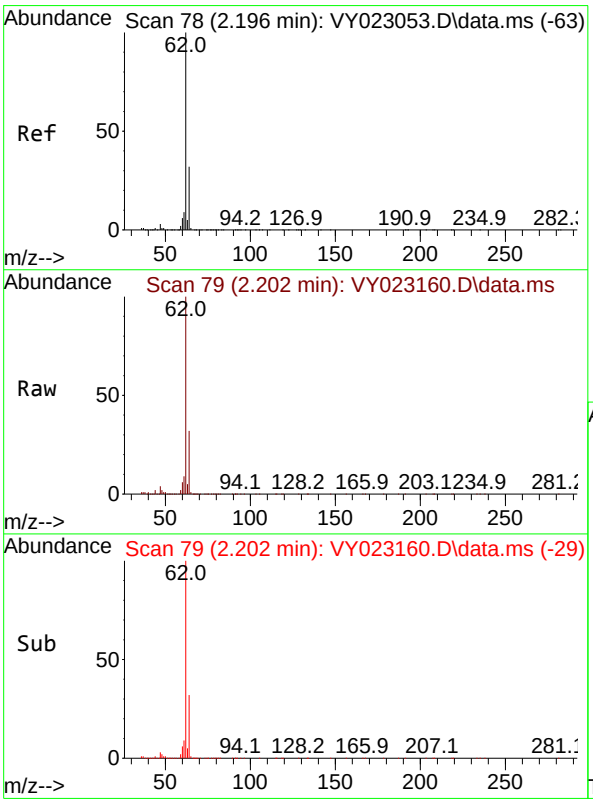
Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

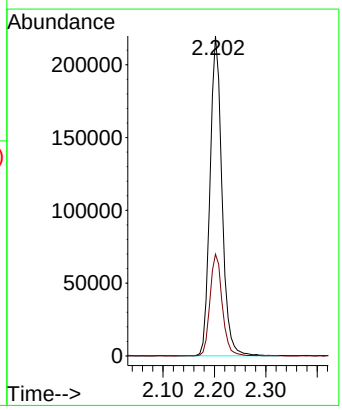
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

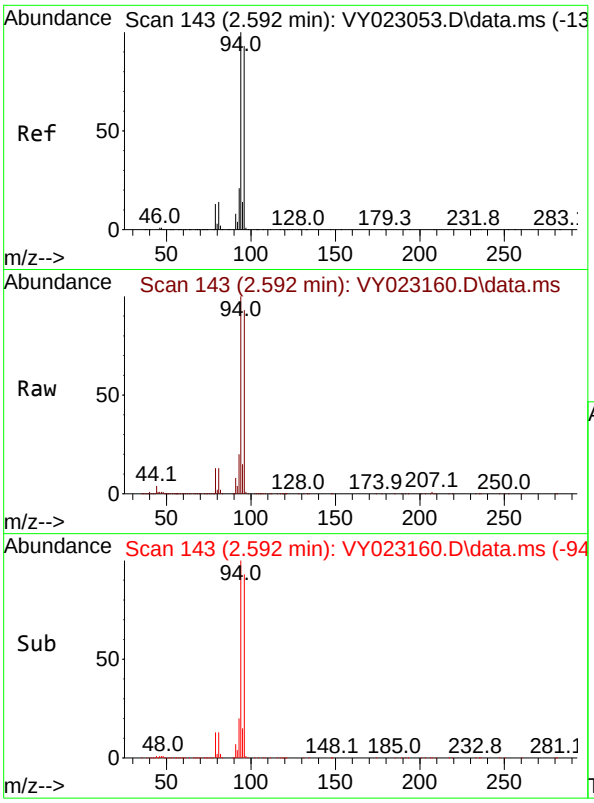


#4
Vinyl Chloride
Concen: 47.848 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 354948

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0

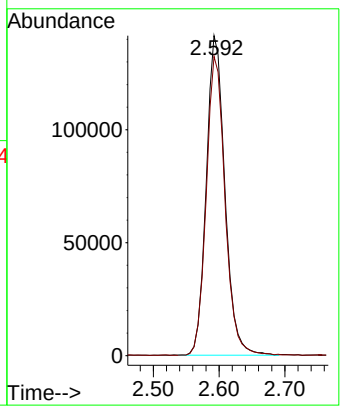




#5
Bromomethane
Concen: 50.342 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 94 Resp: 27890

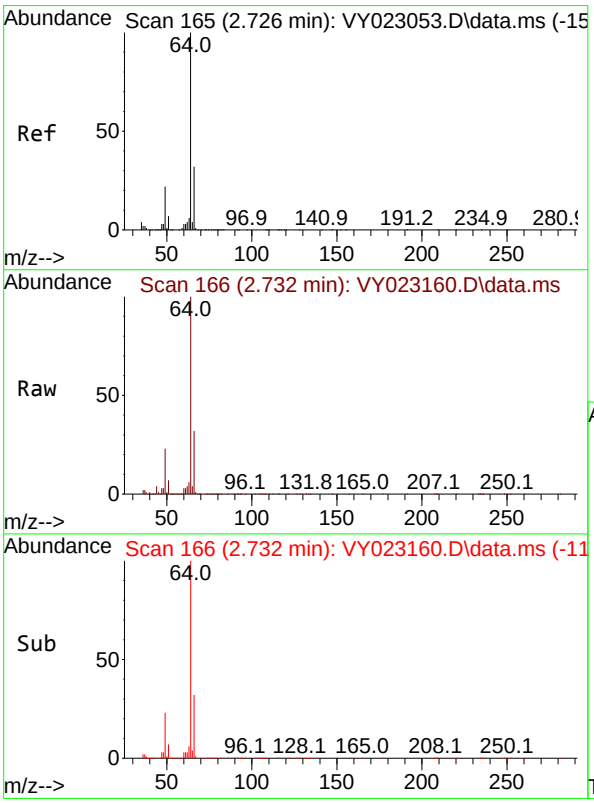
Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

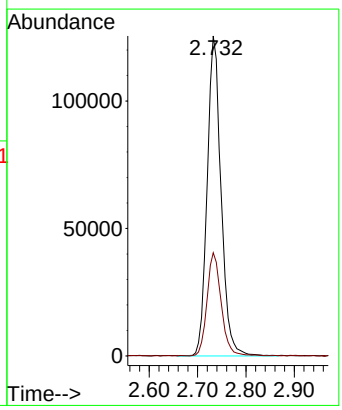
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

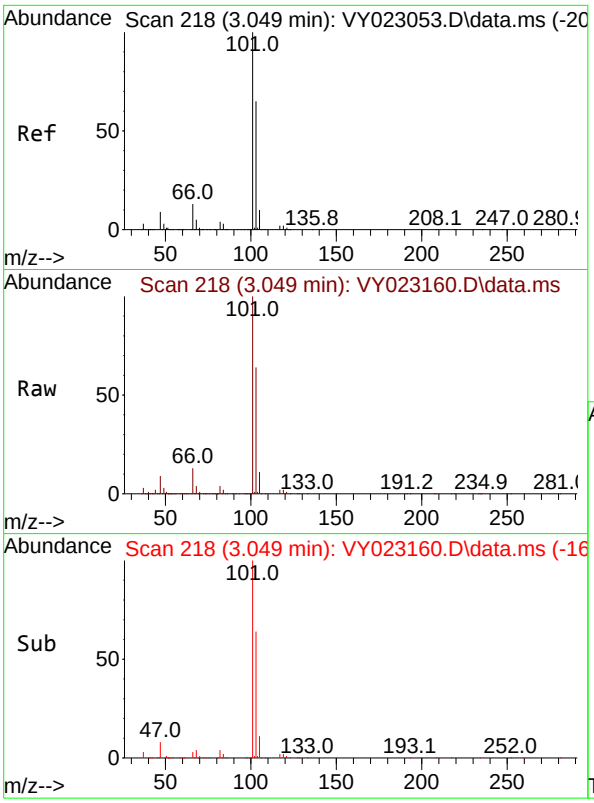


#6
Chloroethane
Concen: 50.860 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 64 Resp: 250831

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6

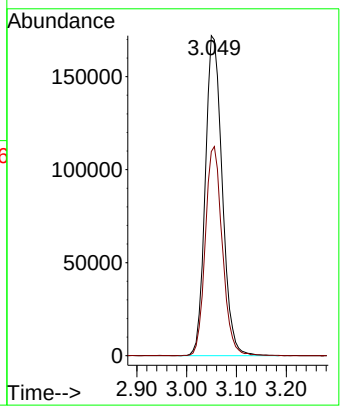




#7
Trichlorofluoromethane
Concen: 44.950 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:101 Resp: 40545

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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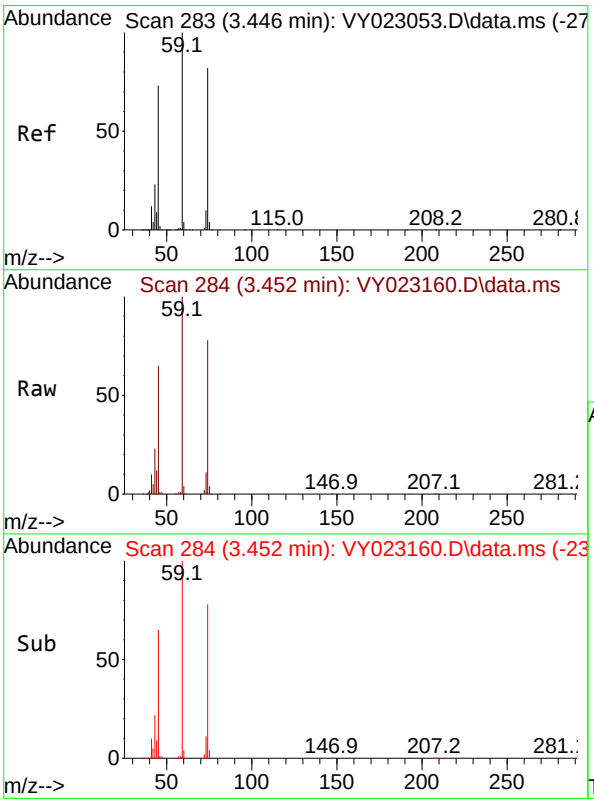
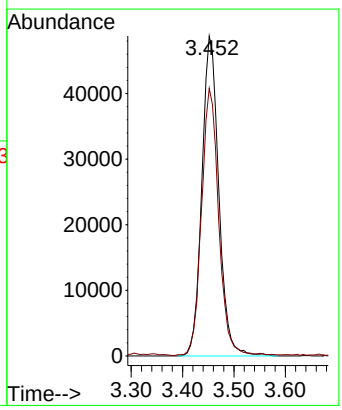
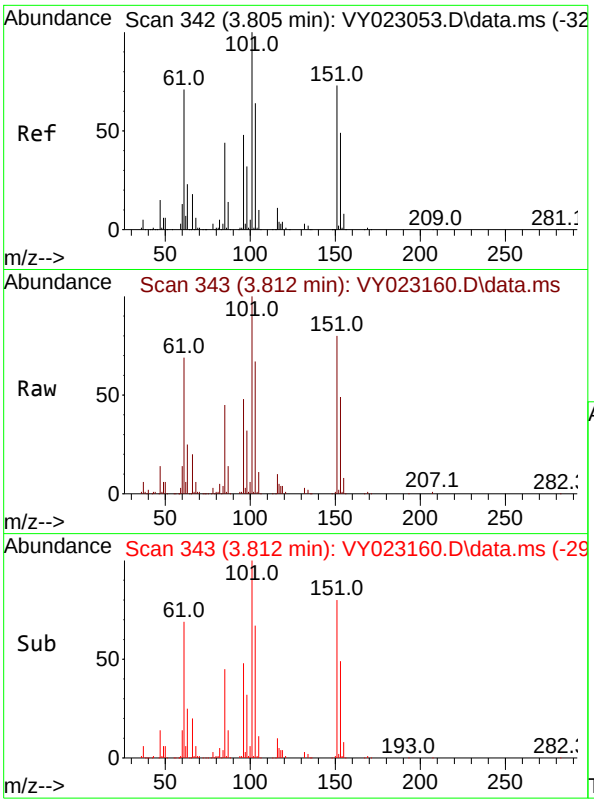


#8
Diethyl Ether
Concen: 46.597 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

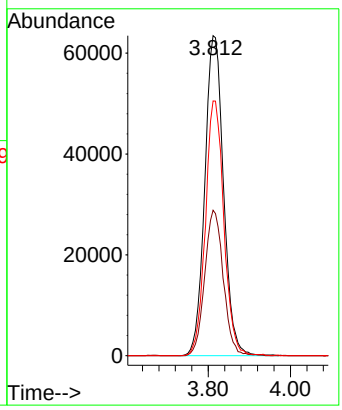
Tgt Ion:101 Resp: 20063

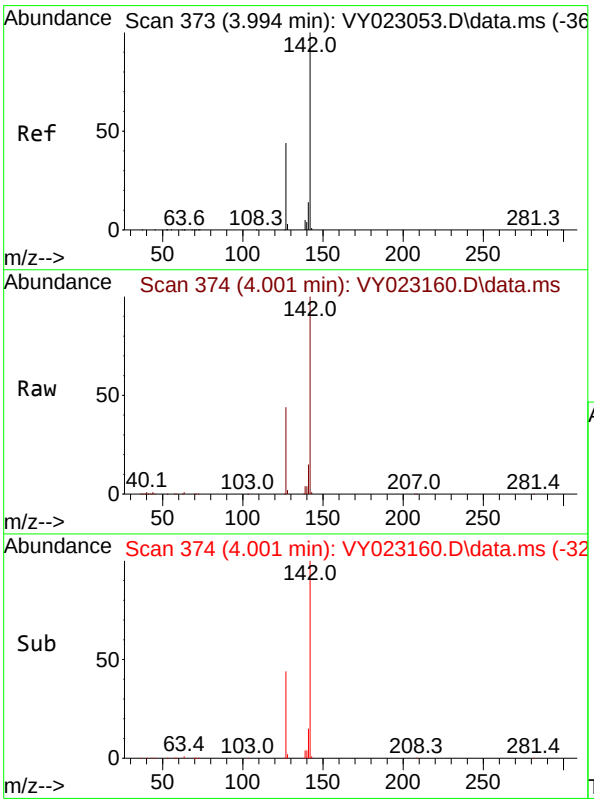
Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.3	54.5
151	78.1	61.5	92.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

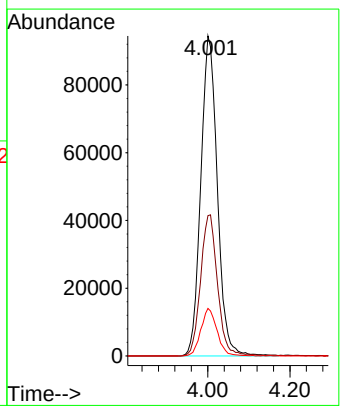


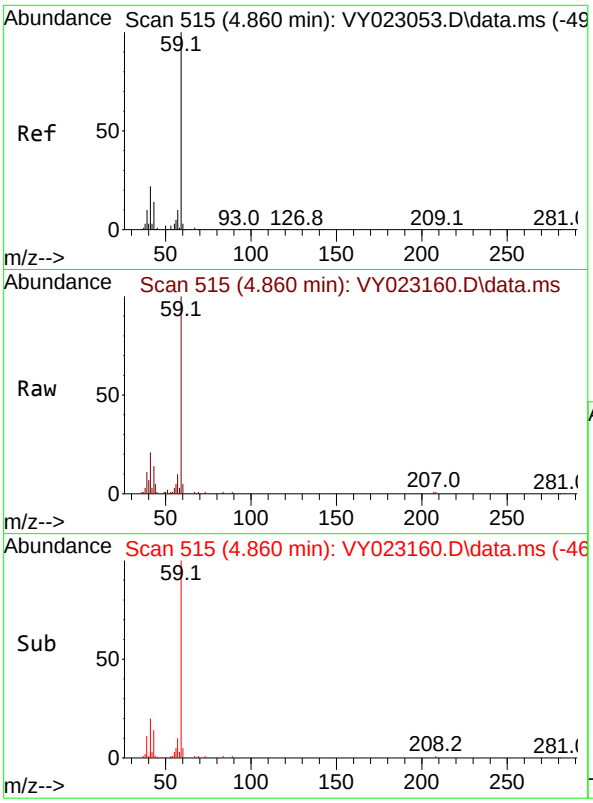


#10
Methyl Iodide
Concen: 54.928 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

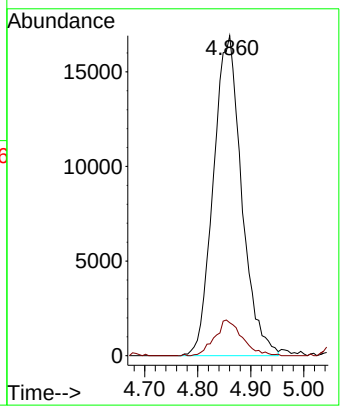




#11
Tert butyl alcohol
Concen: 211.323 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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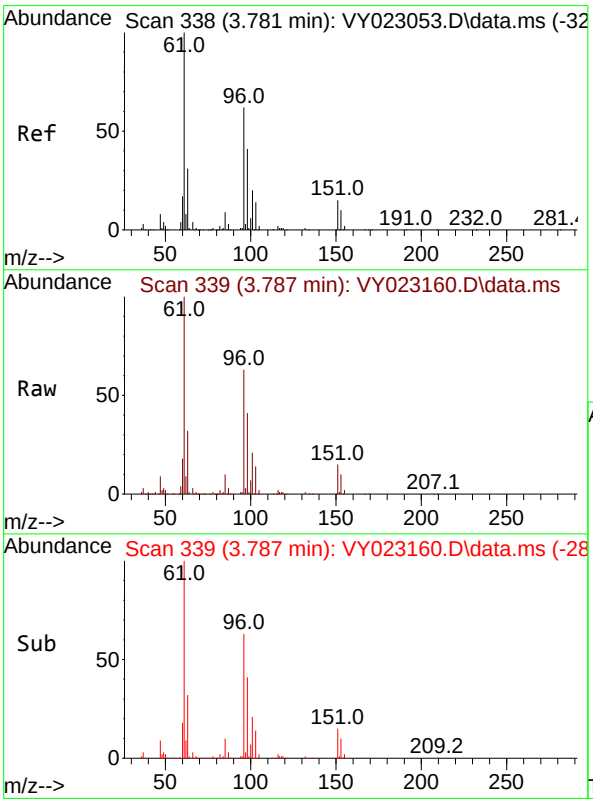
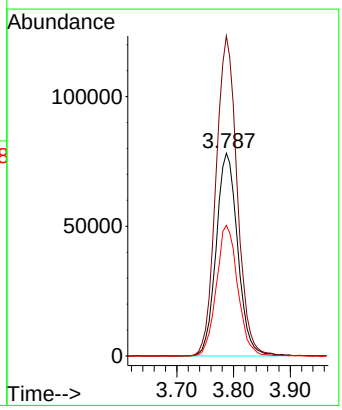
Supervised By :Mahesh Dadoda 08/20/2025

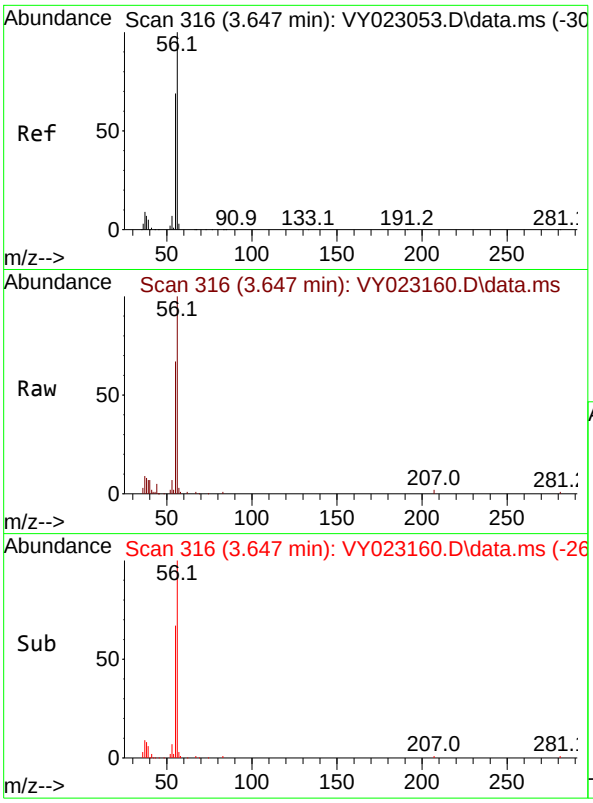


#12
1,1-Dichloroethene
Concen: 47.120 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

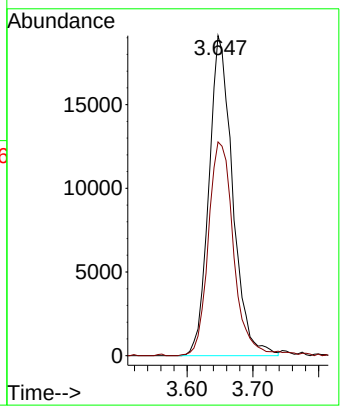




#13
Acrolein
Concen: 110.581 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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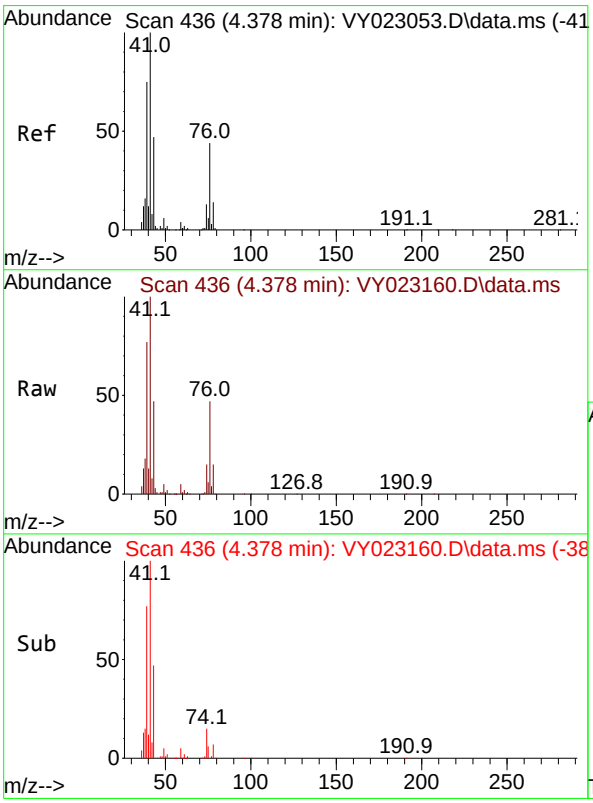
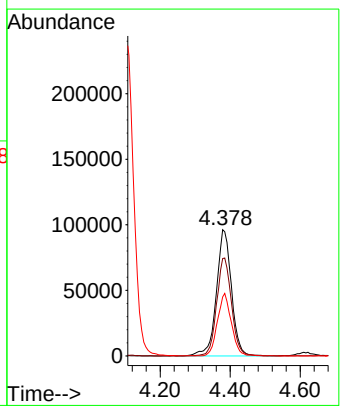
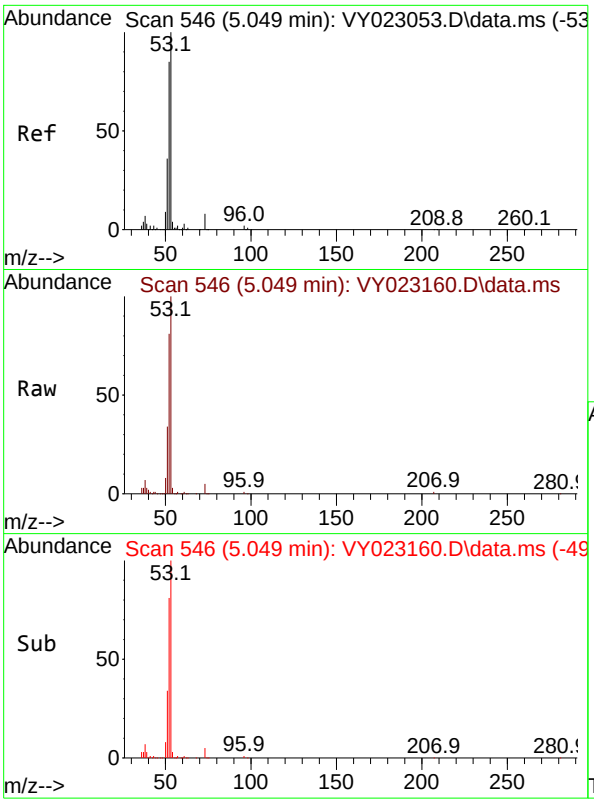


#14
Allyl chloride
Concen: 44.800 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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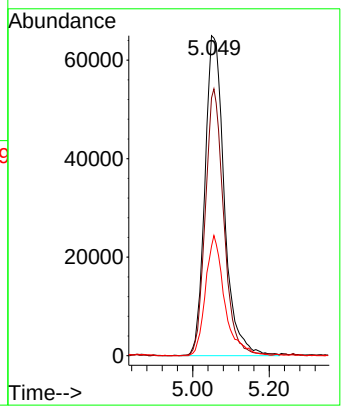
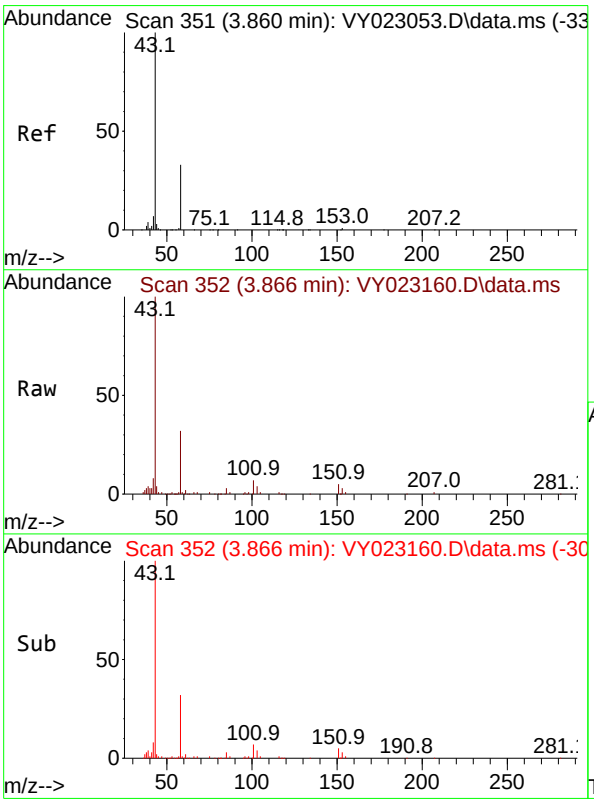
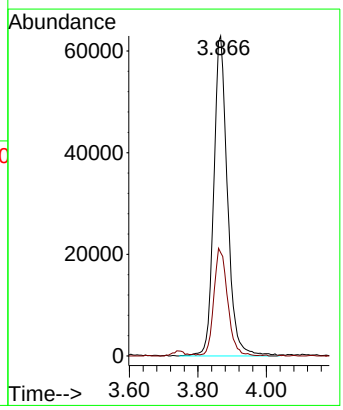


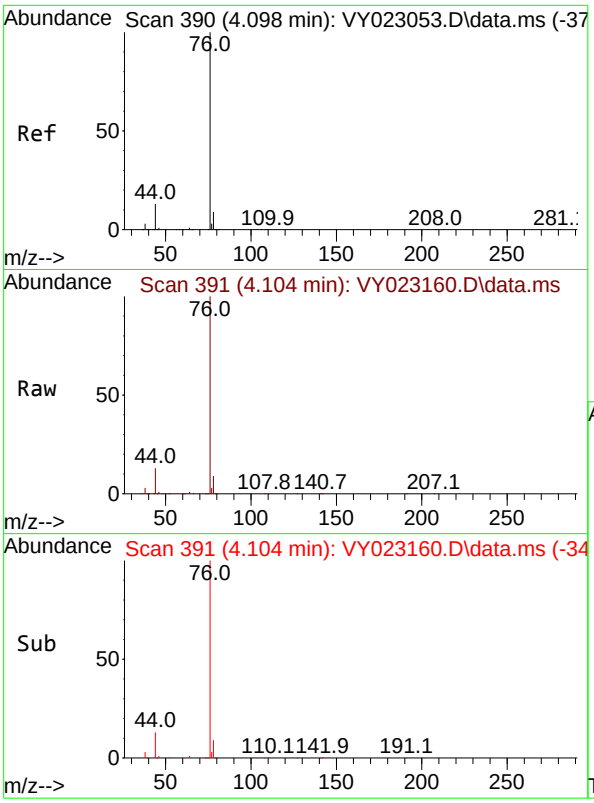


#16
Acetone
Concen: 187.073 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 175331

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7

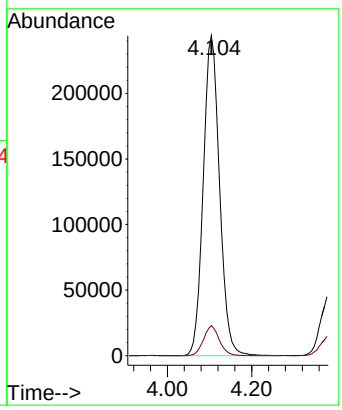




#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 76 Resp: 65702

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.2



Instrument :
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ClientSampleId :
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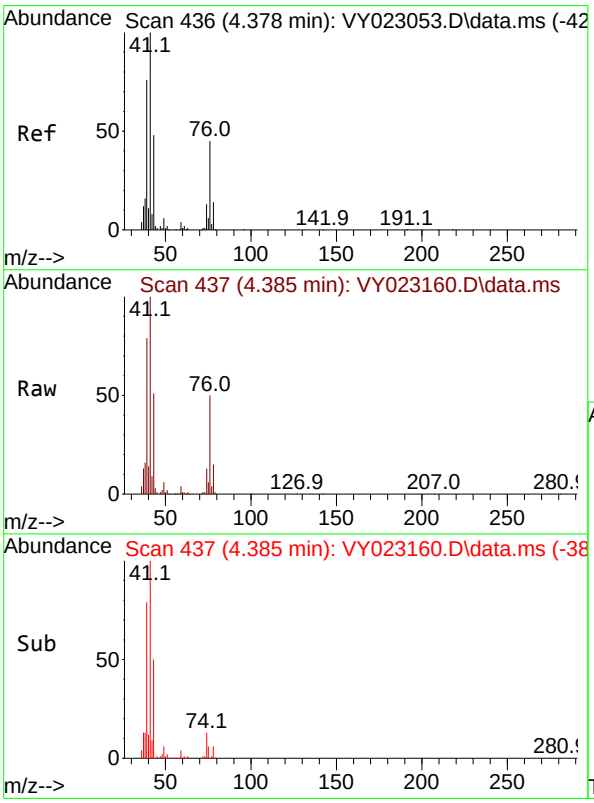
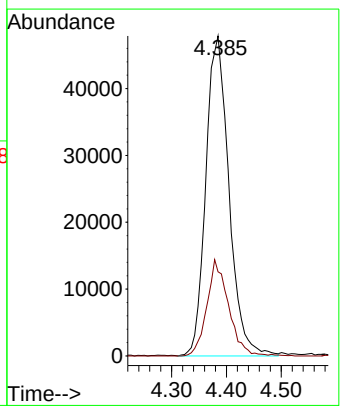
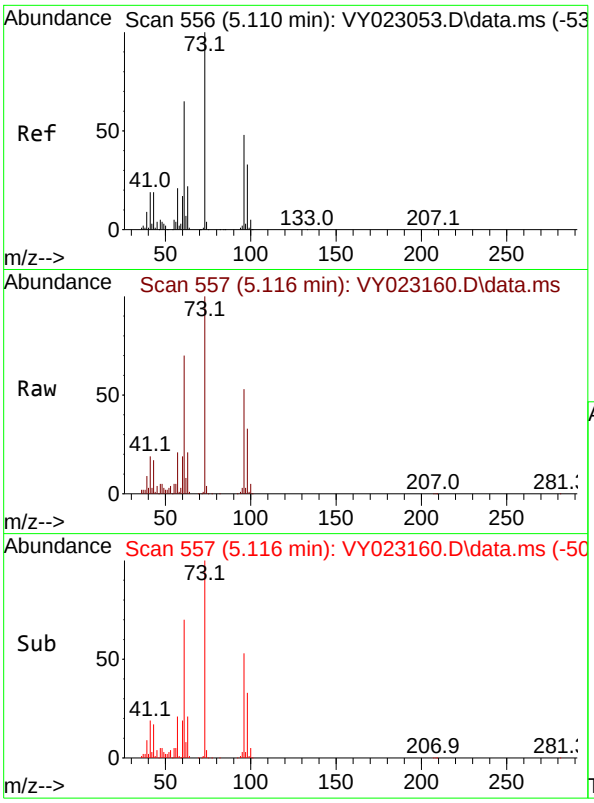


#18
Methyl Acetate
Concen: 50.290 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 140261

Ion	Ratio	Lower	Upper
43	100		
74	28.1	21.2	31.8

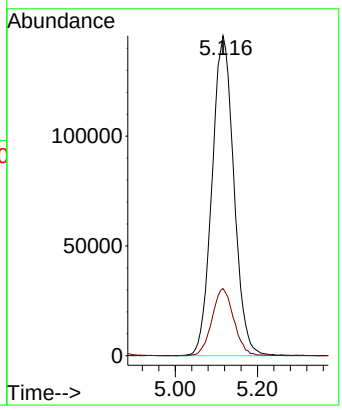




#19
Methyl tert-butyl Ether
Concen: 47.480 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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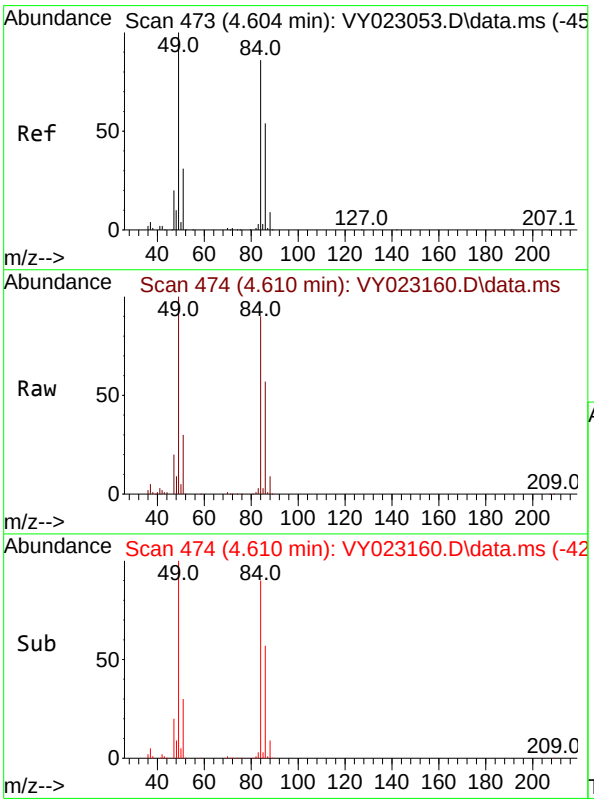
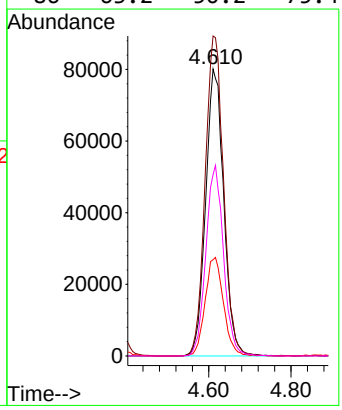
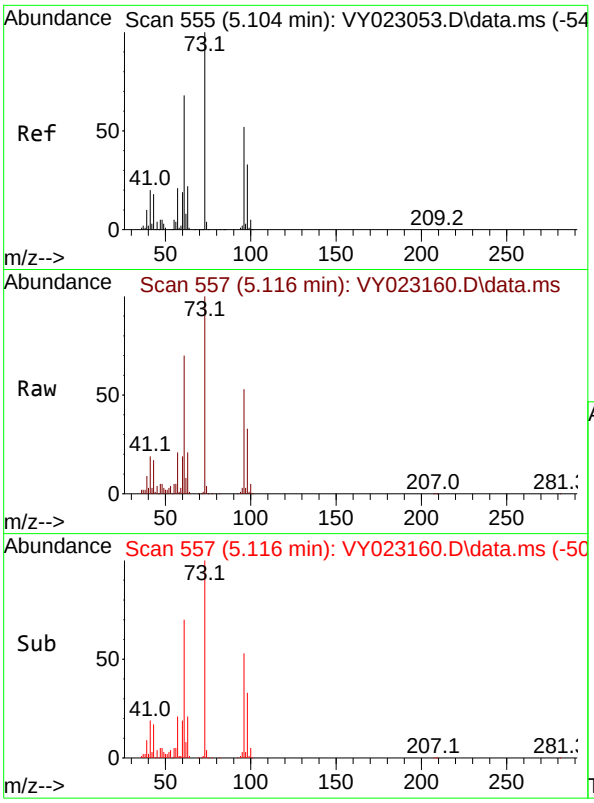


#20
Methylene Chloride
Concen: 50.247 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

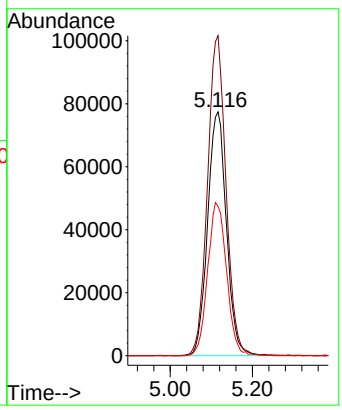




#21
trans-1,2-Dichloroethene
Concen: 50.119 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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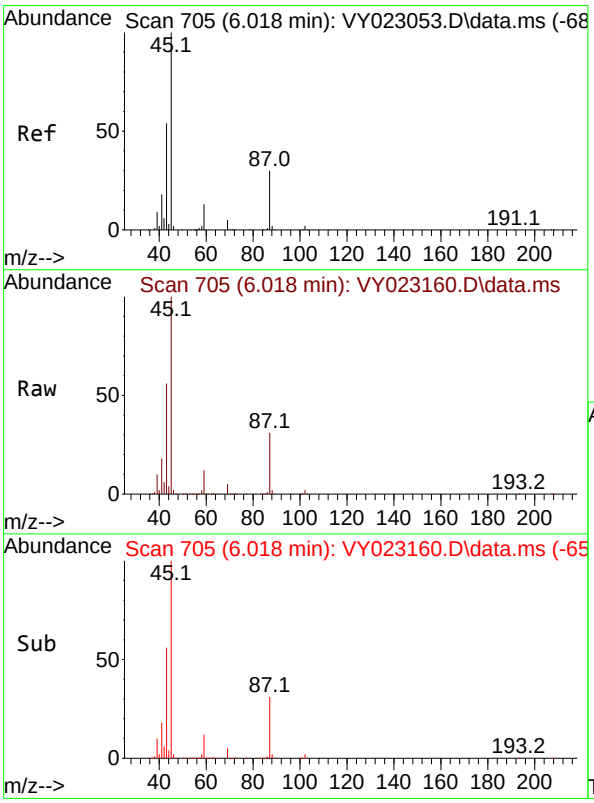
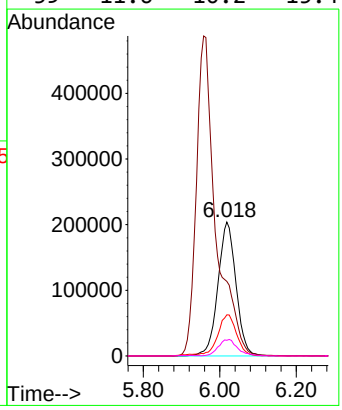
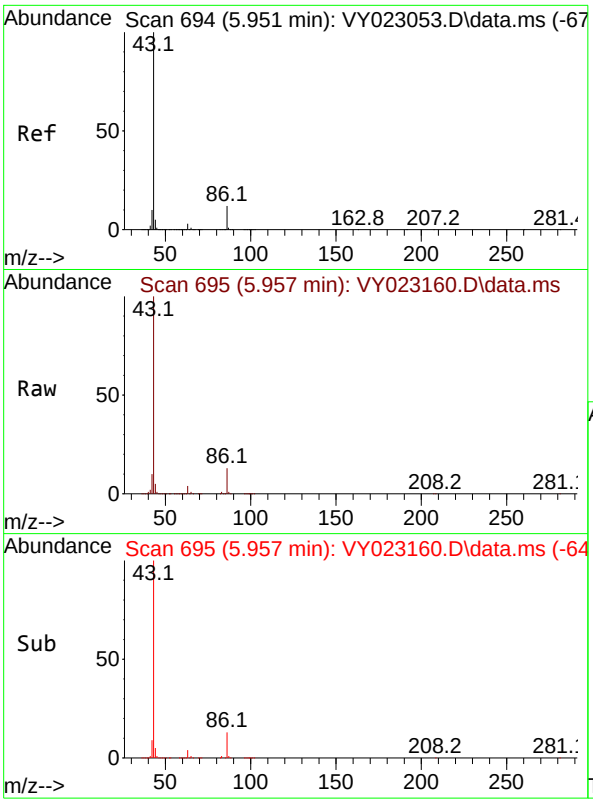


#22
Diisopropyl ether
Concen: 47.919 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

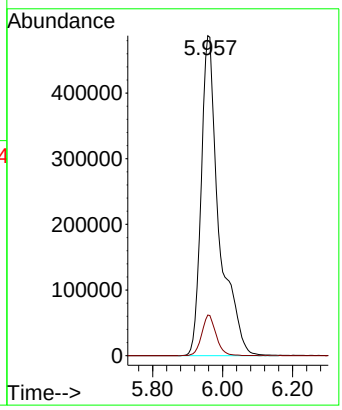




#23
Vinyl Acetate
Concen: 223.289 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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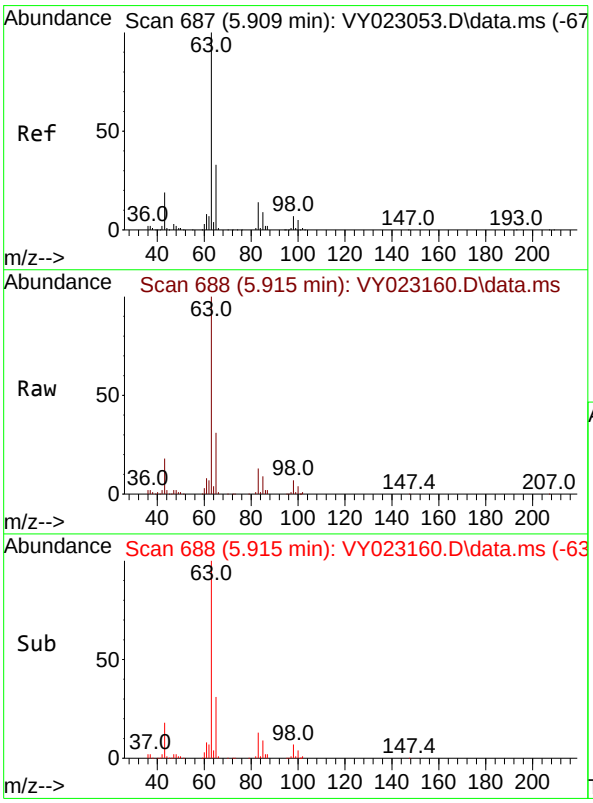
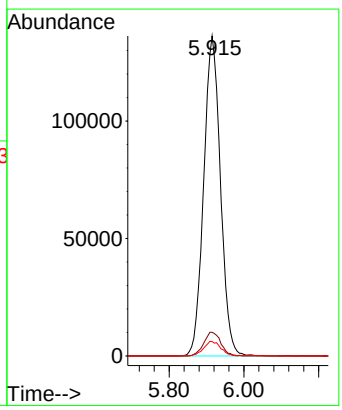
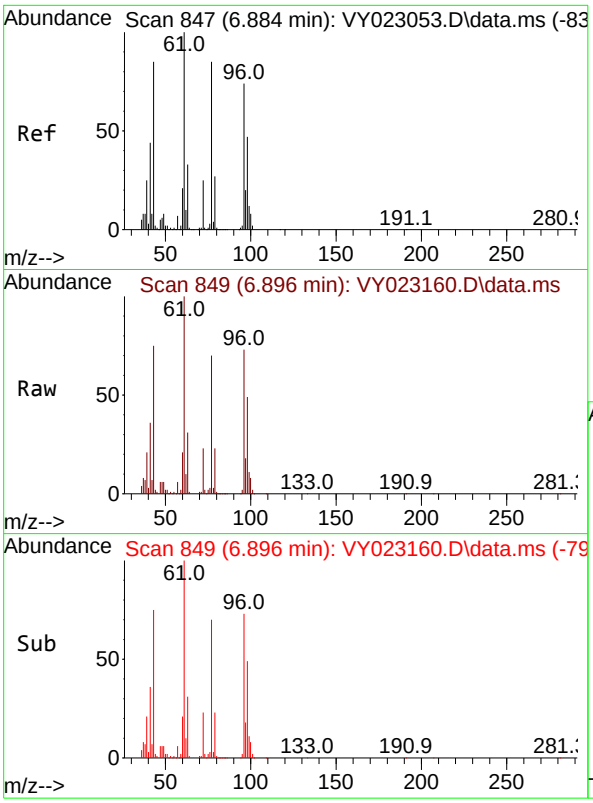


#24
1,1-Dichloroethane
Concen: 49.522 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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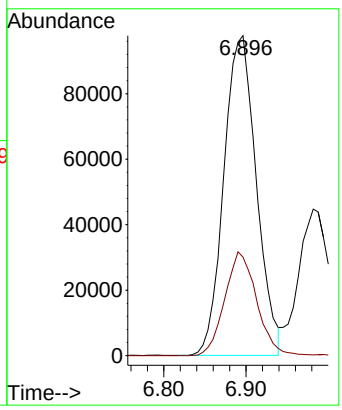
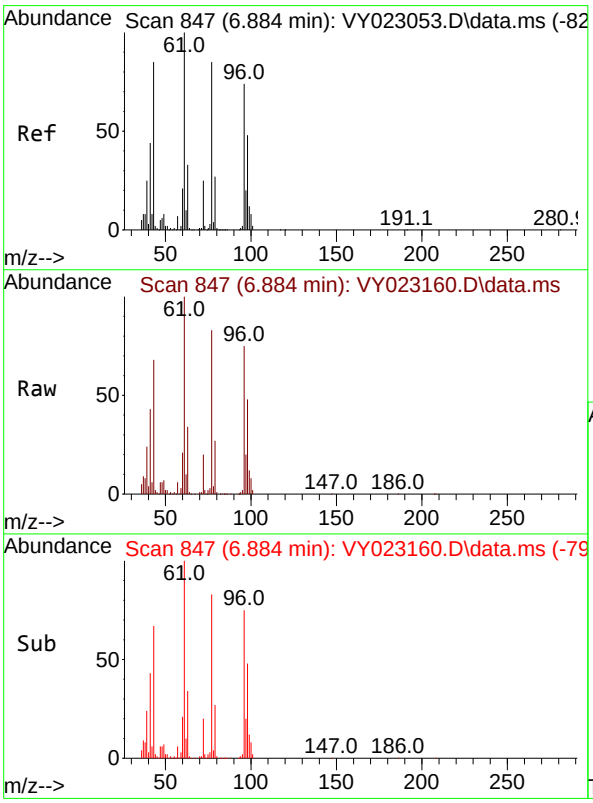
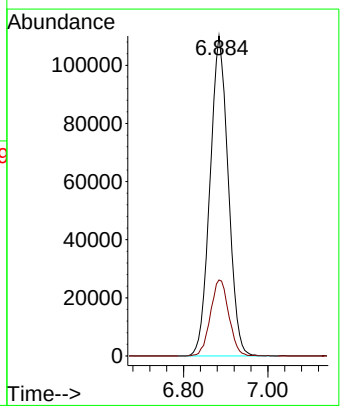


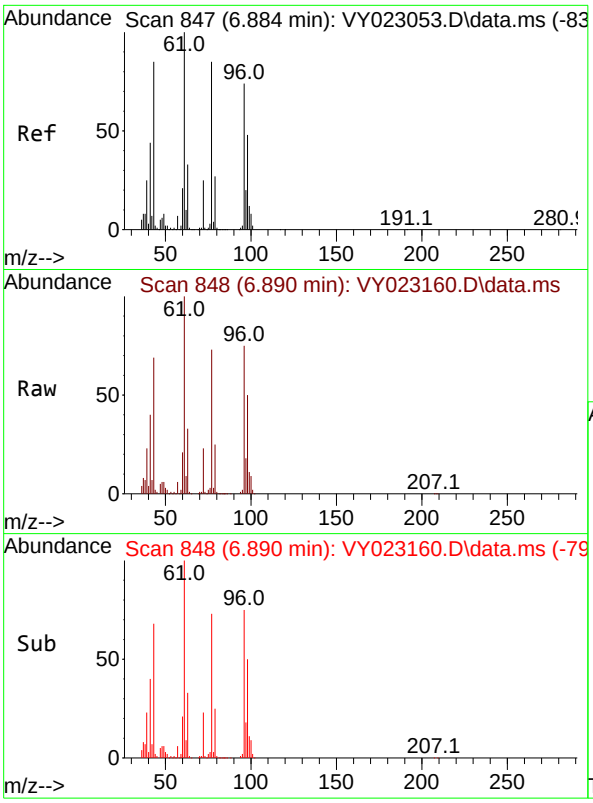


#26
2,2-Dichloropropane
Concen: 44.729 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

Manual Integrations
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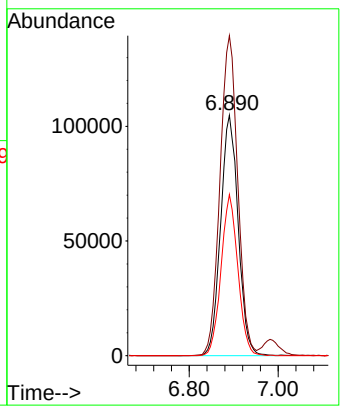
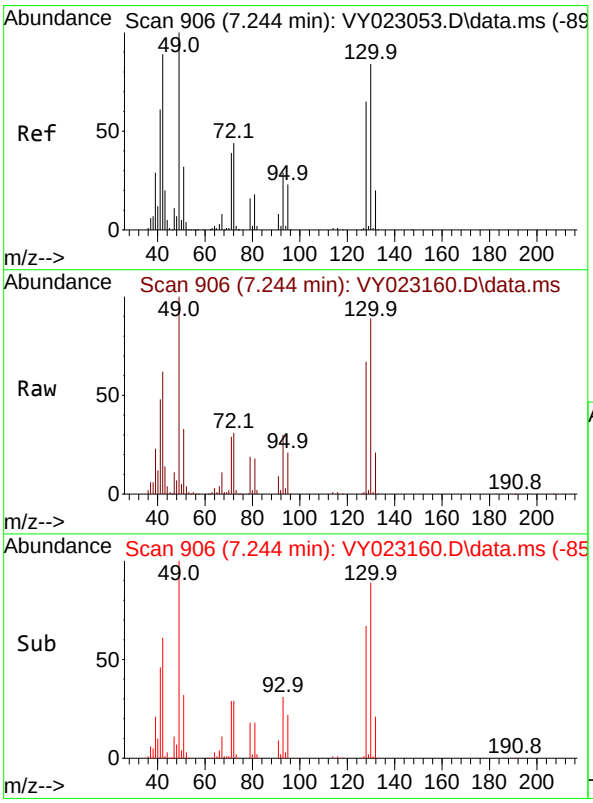
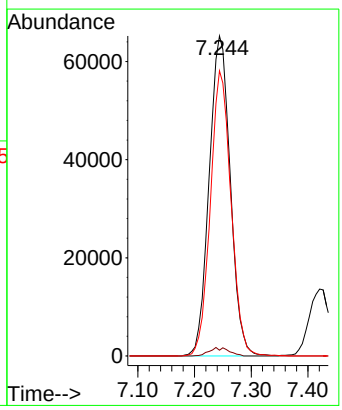


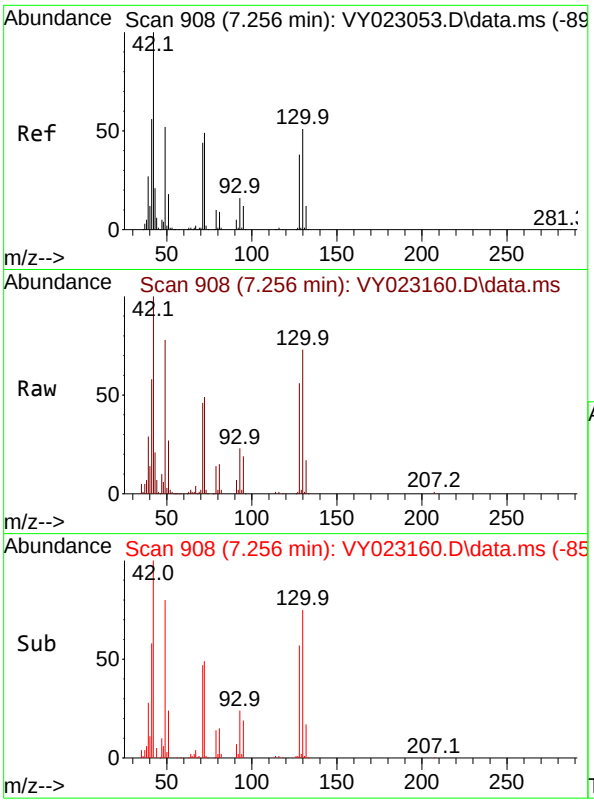


#28
Bromochloromethane
Concen: 49.712 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

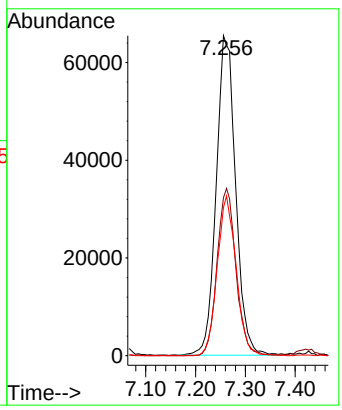




#29
Tetrahydrofuran
Concen: 223.965 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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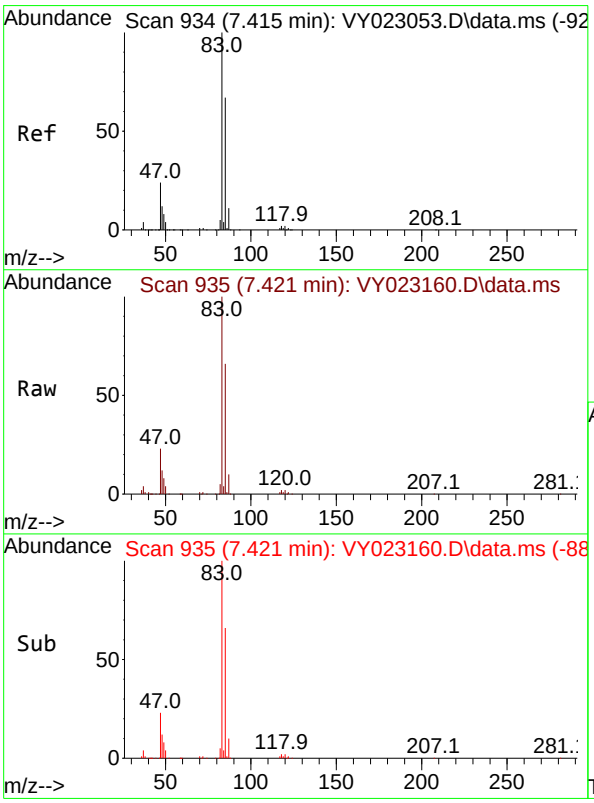
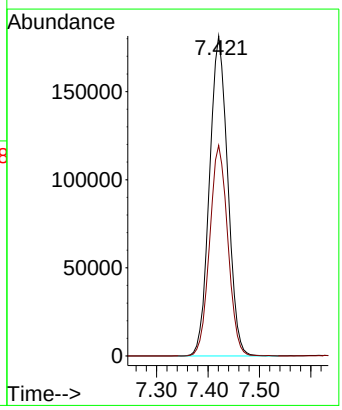
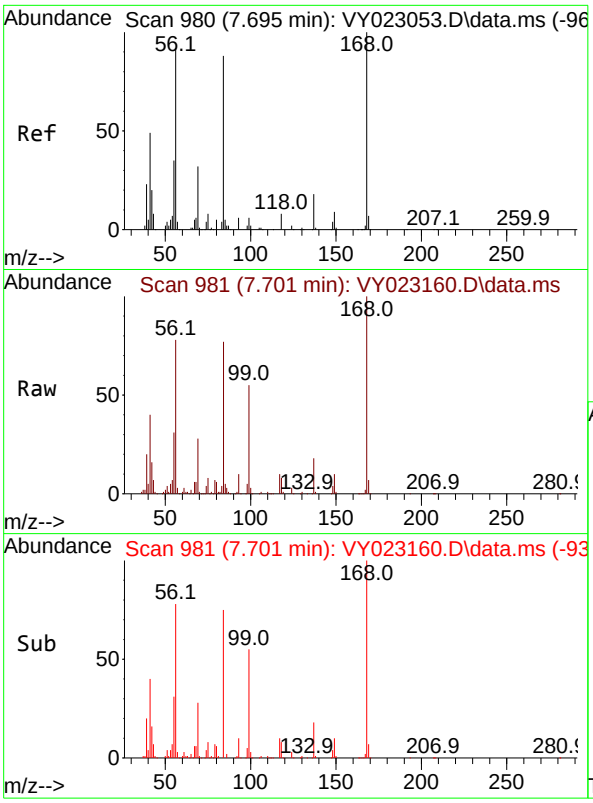


#30
Chloroform
Concen: 50.699 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 447102

Ion	Ratio	Lower	Upper
83	100		
85	65.8	53.8	80.8

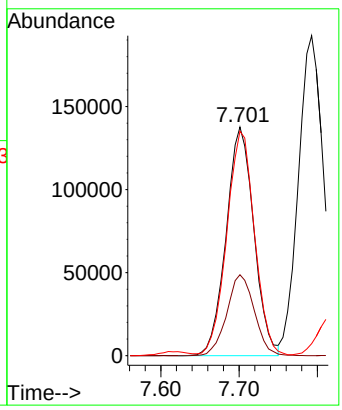




#31
Cyclohexane
Concen: 42.047 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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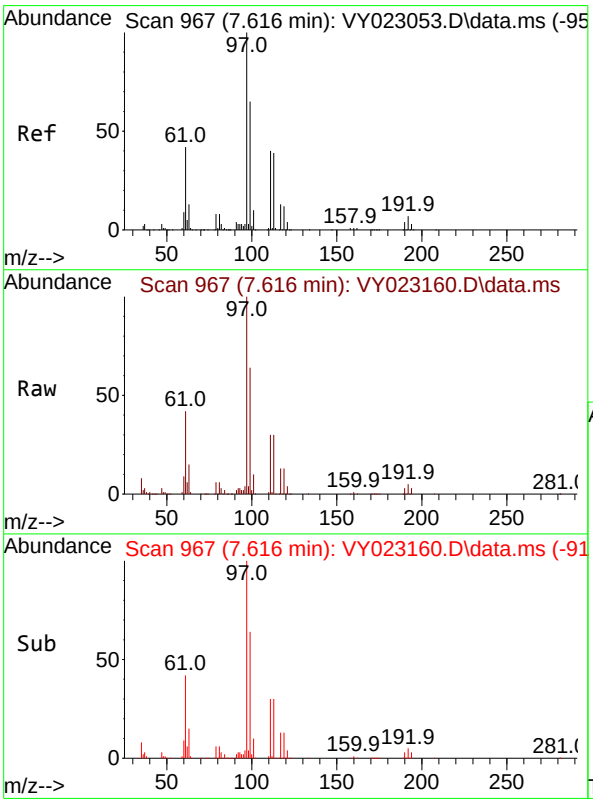
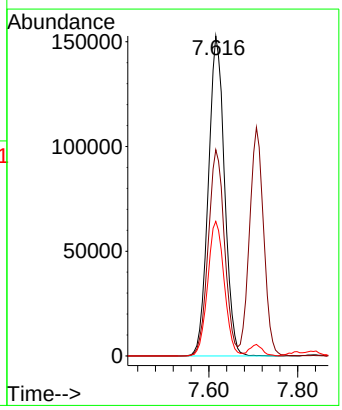
Supervised By :Mahesh Dadoda 08/20/2025

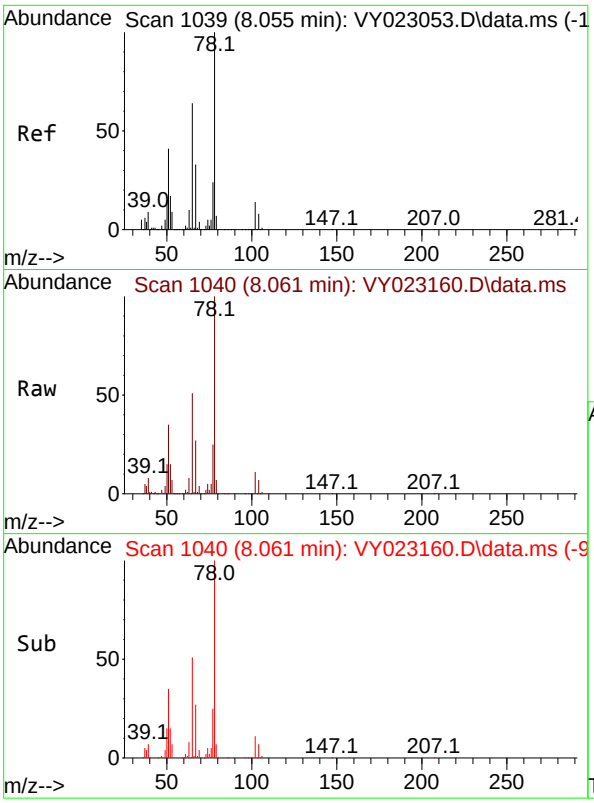


#32
1,1,1-Trichloroethane
Concen: 49.443 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

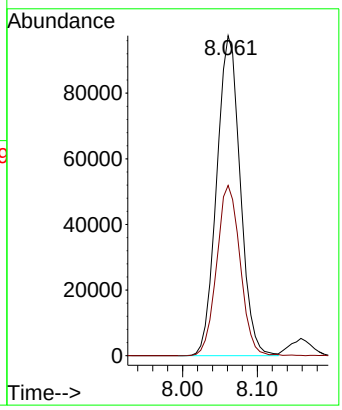




#33
1,2-Dichloroethane-d4
Concen: 49.322 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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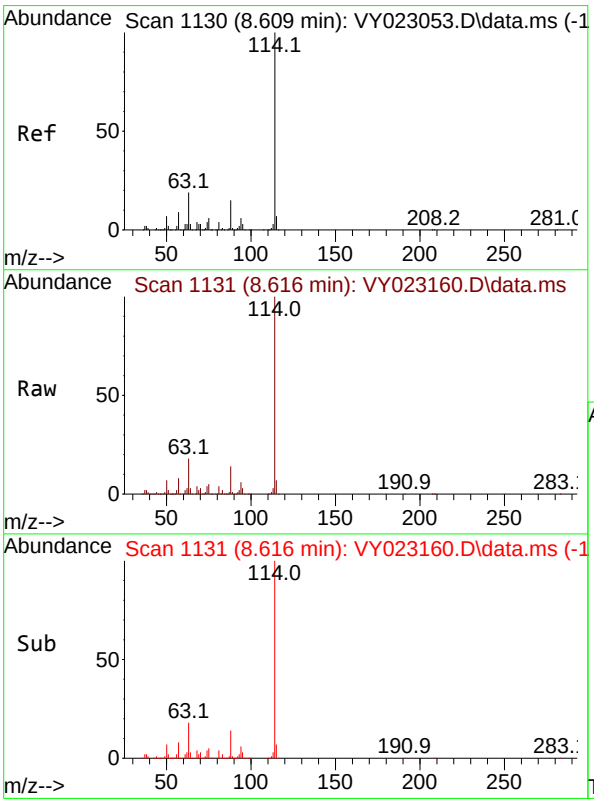
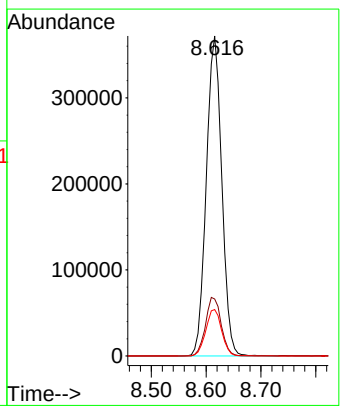
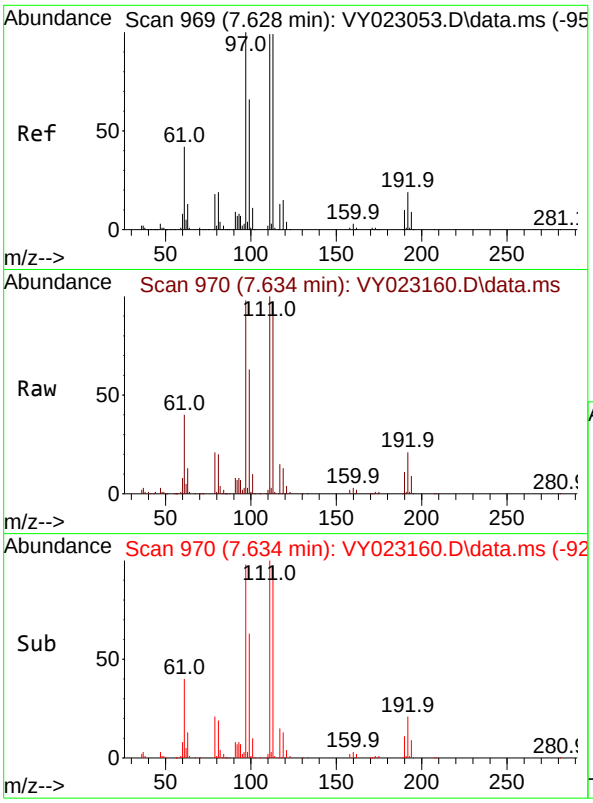


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

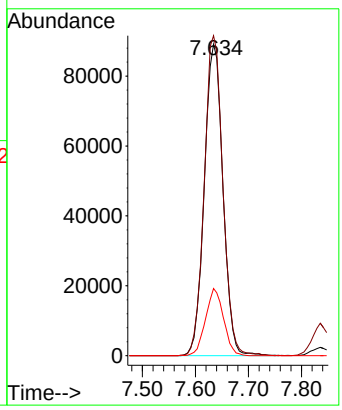




#35
Dibromofluoromethane
Concen: 49.903 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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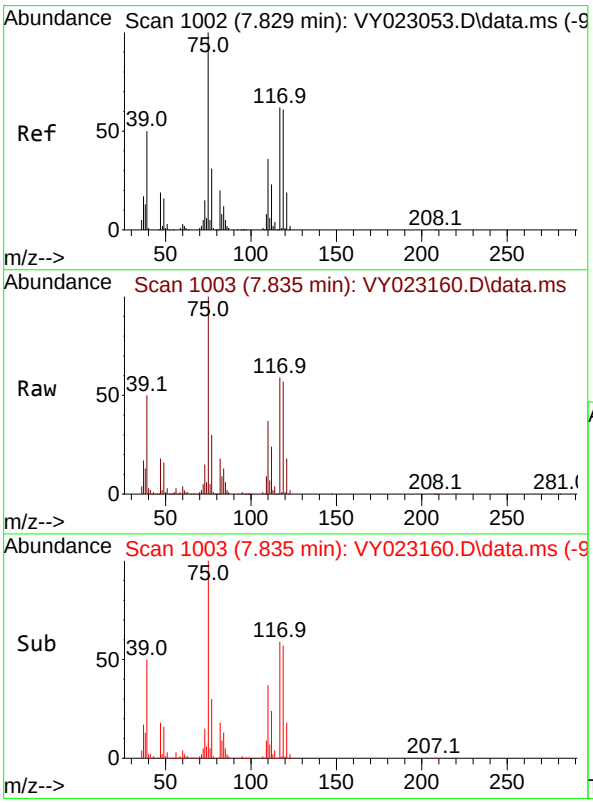
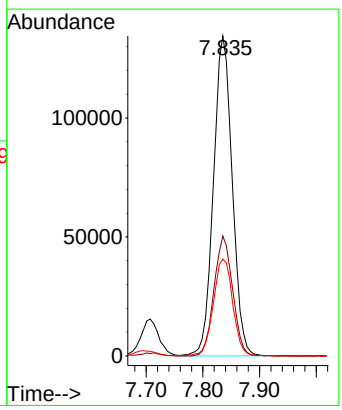
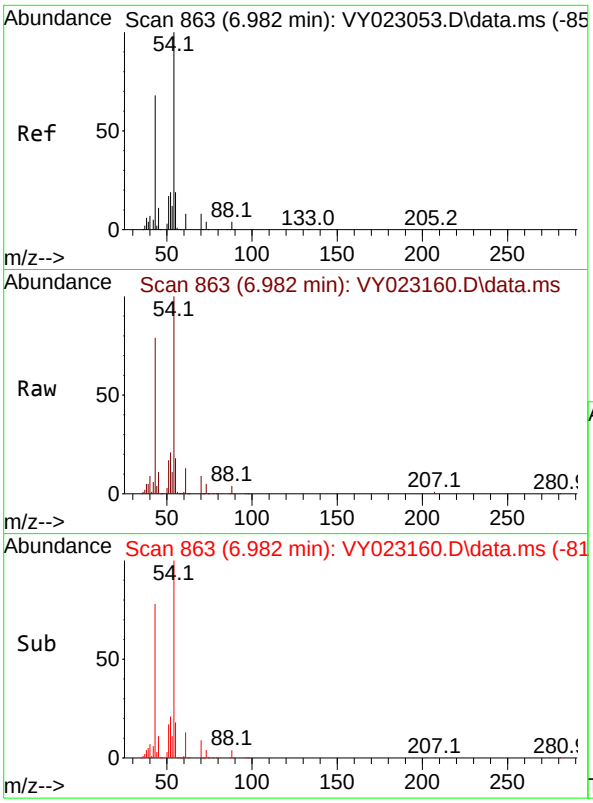


#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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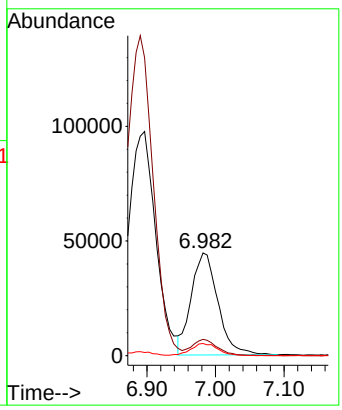
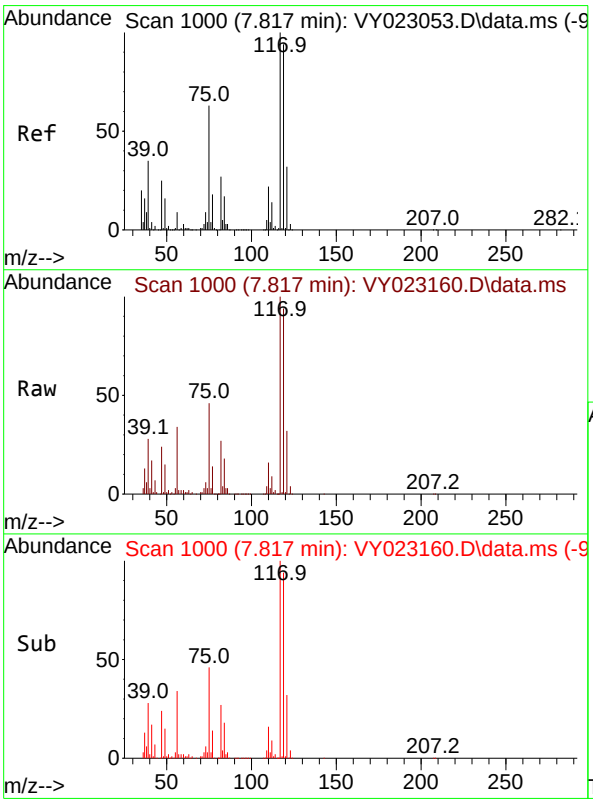
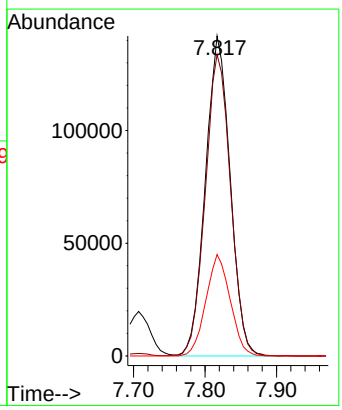


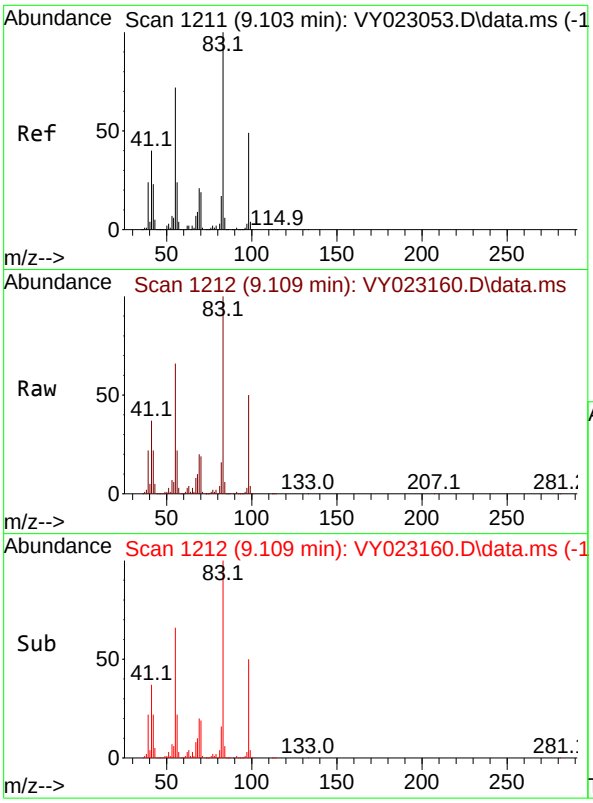


#38
Carbon Tetrachloride
Concen: 48.612 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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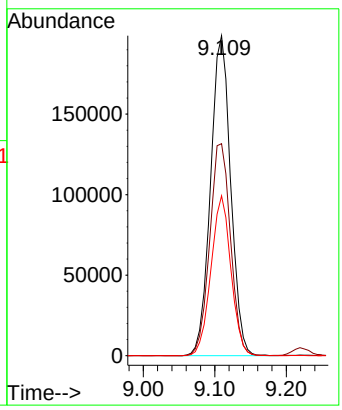
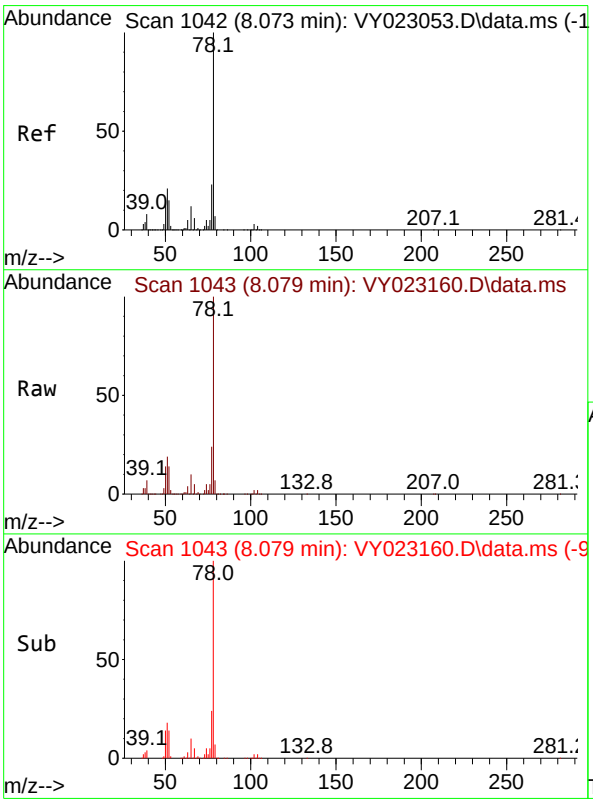
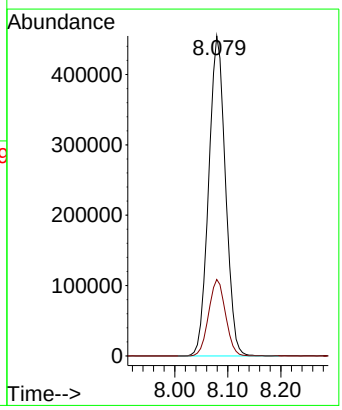


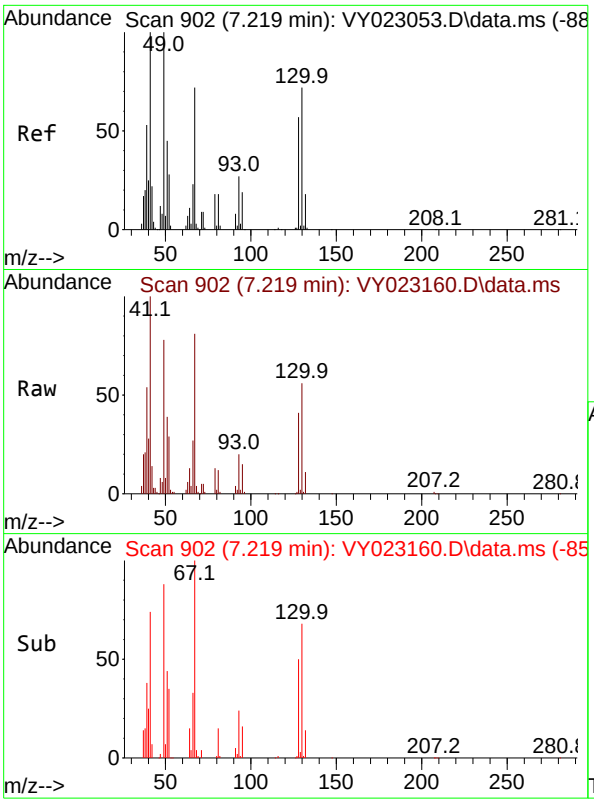


#40
Benzene
Concen: 50.170 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 78 Resp: 999546

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0

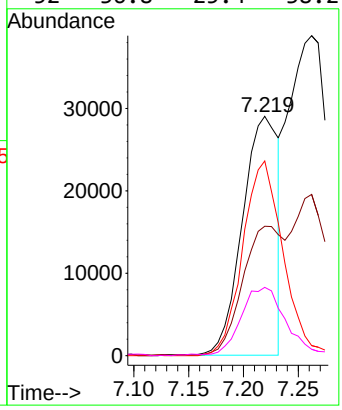




#41
Methacrylonitrile
Concen: 41.877 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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 :
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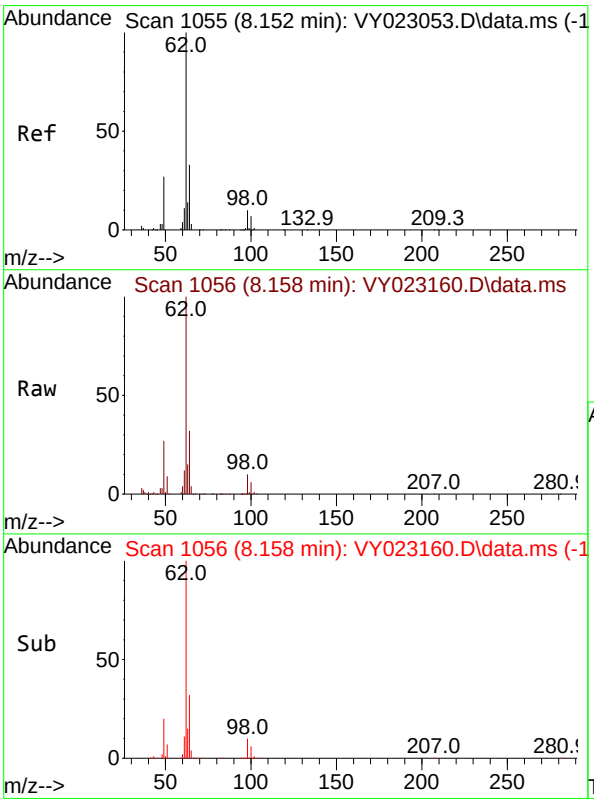
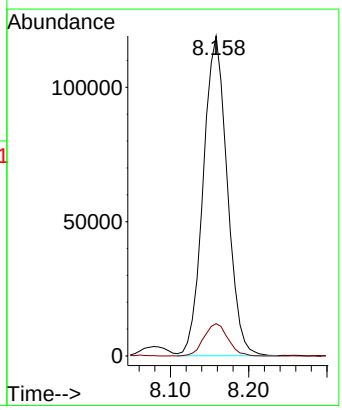
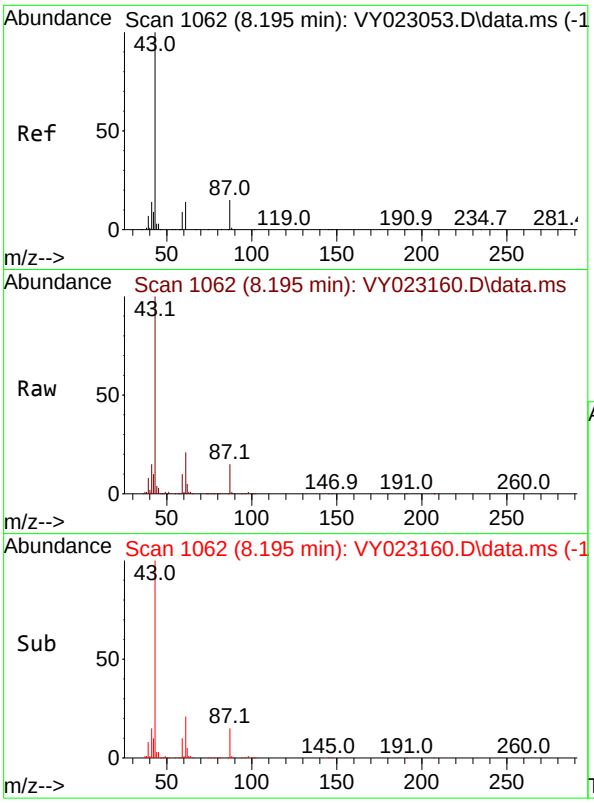


#42
1,2-Dichloroethane
Concen: 48.835 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 253049

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6

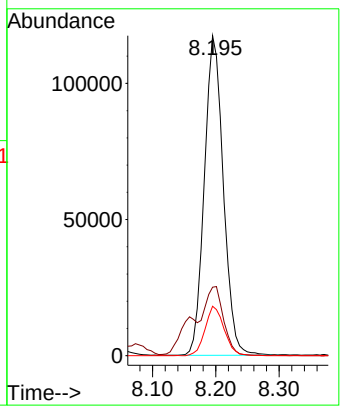




#43
Isopropyl Acetate
Concen: 44.694 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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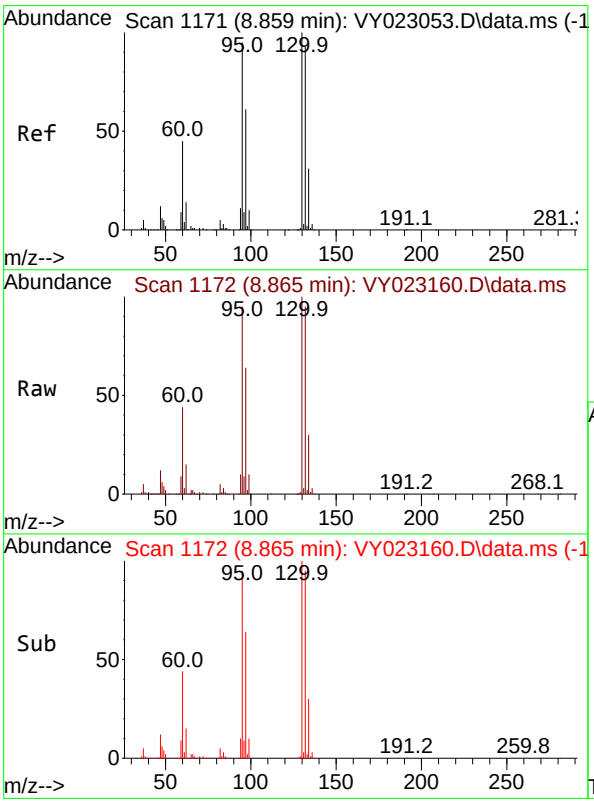
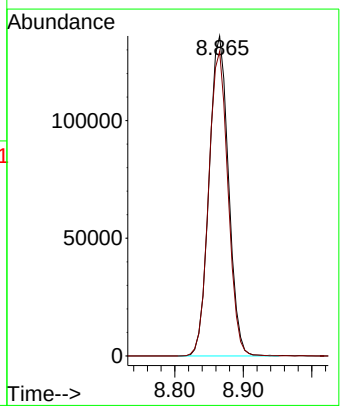
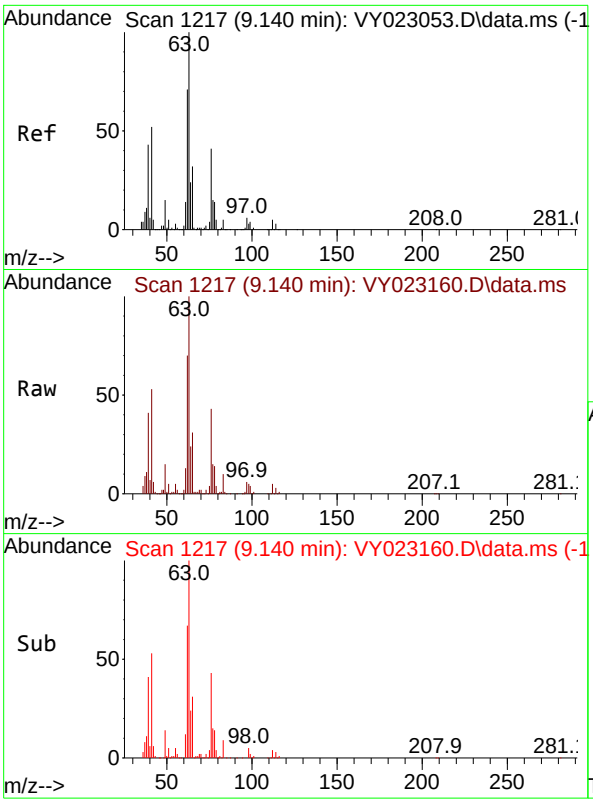


#44
Trichloroethene
Concen: 51.782 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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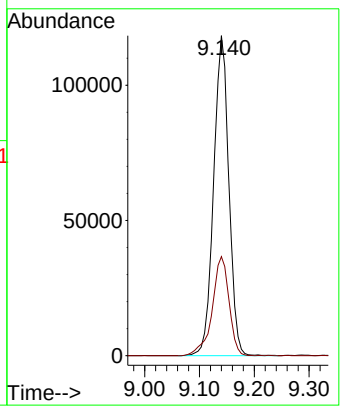
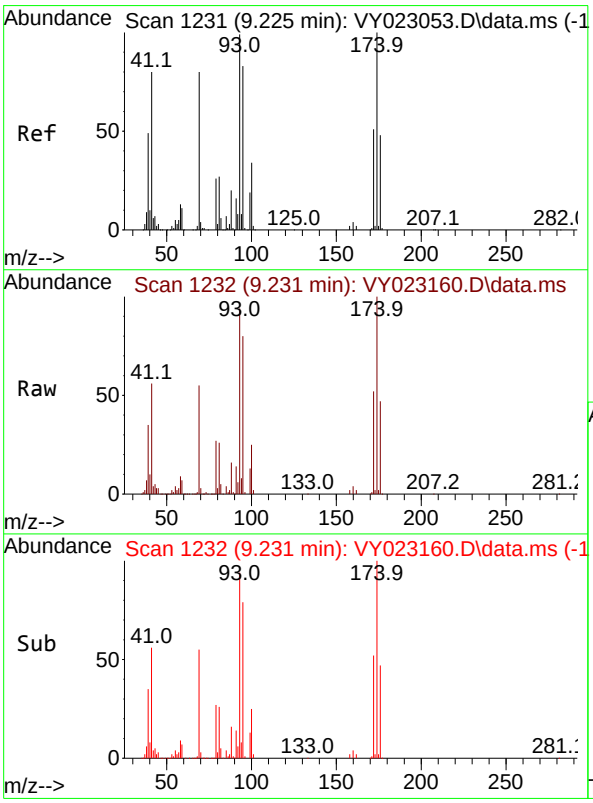
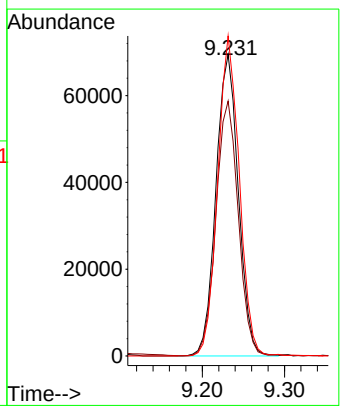


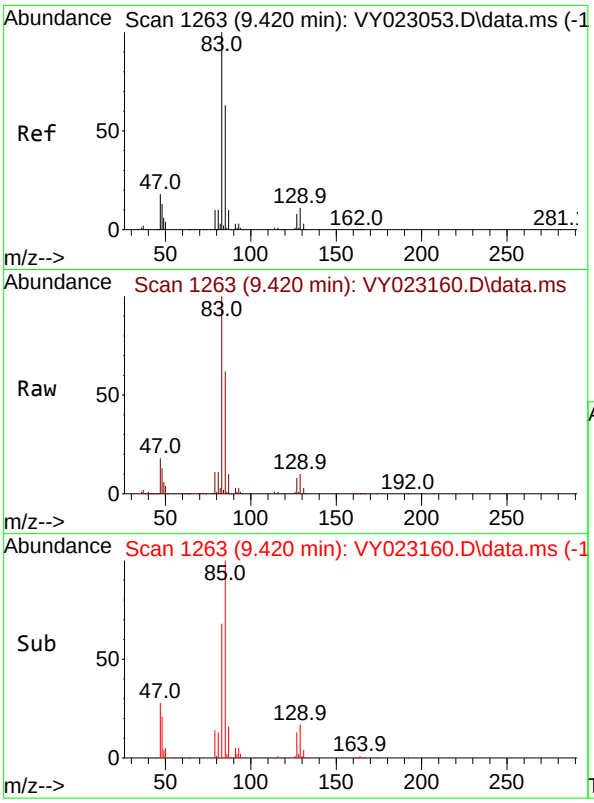


#46
Dibromomethane
Concen: 49.971 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

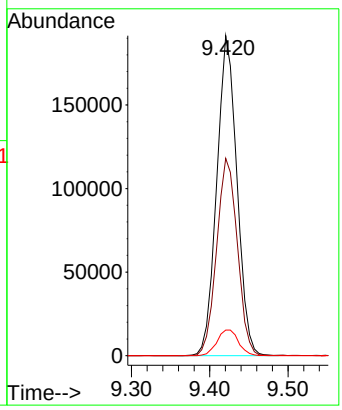




#47
Bromodichloromethane
Concen: 50.703 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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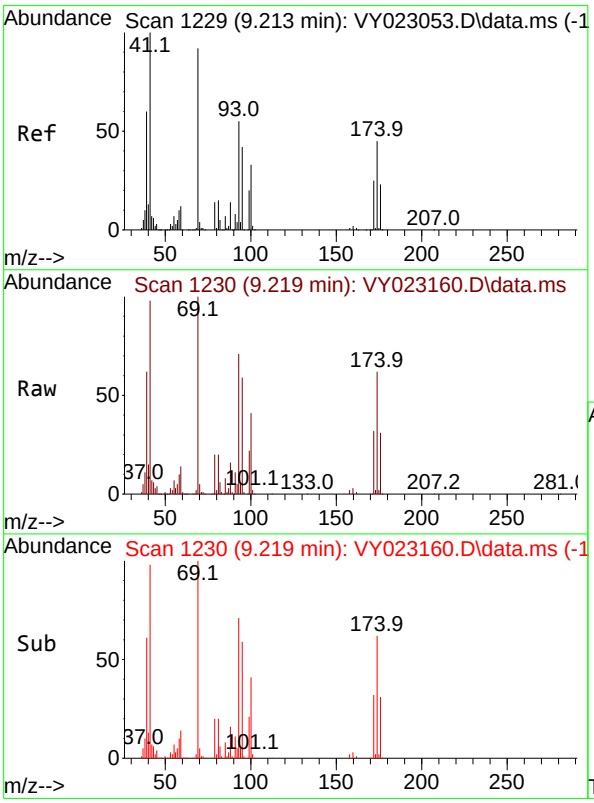
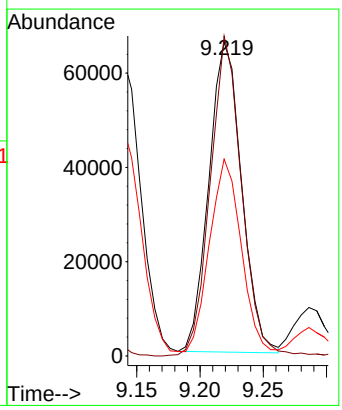
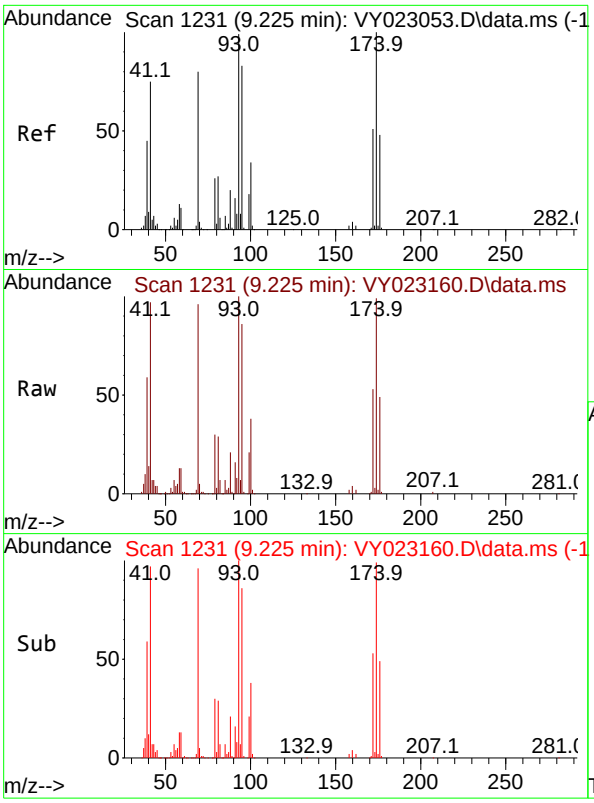


#48
Methyl methacrylate
Concen: 45.021 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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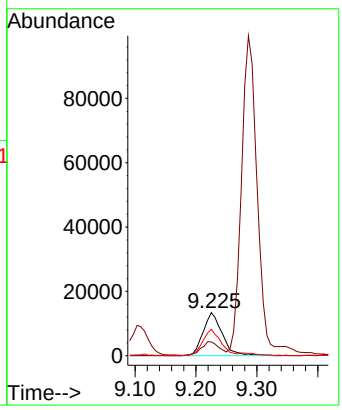
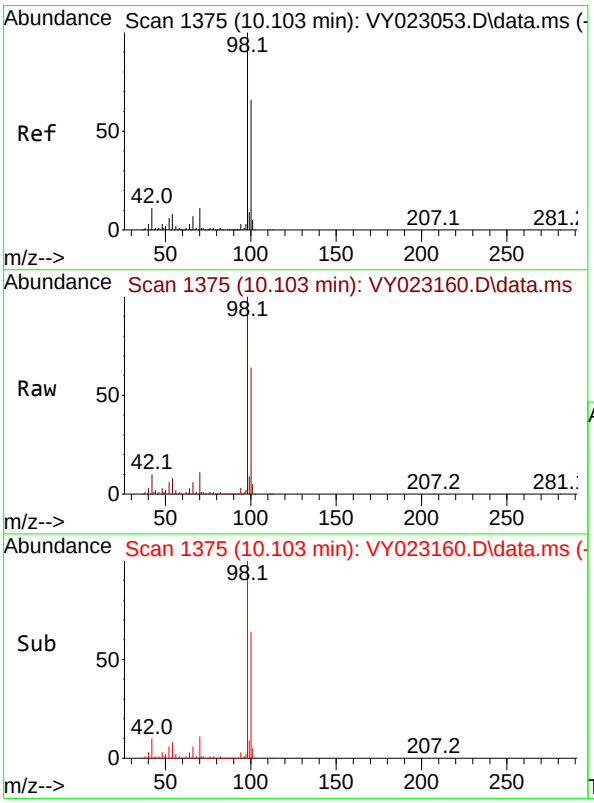
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

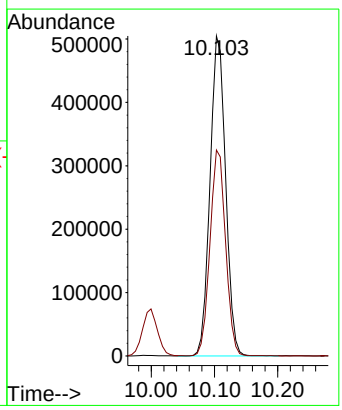


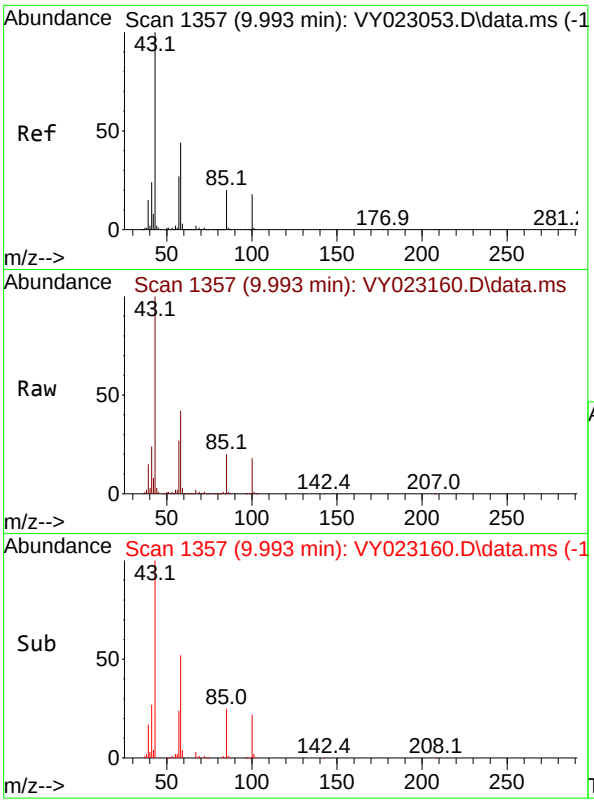


#50
Toluene-d8
Concen: 50.853 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 98 Resp: 864097

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.3	78.5

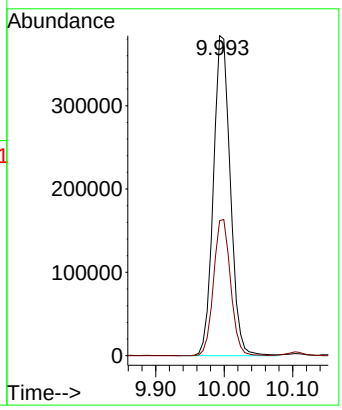




#51
4-Methyl-2-Pentanone
Concen: 231.971 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 65671

Ion	Ratio	Lower	Upper
43	100		
58	42.9	33.5	50.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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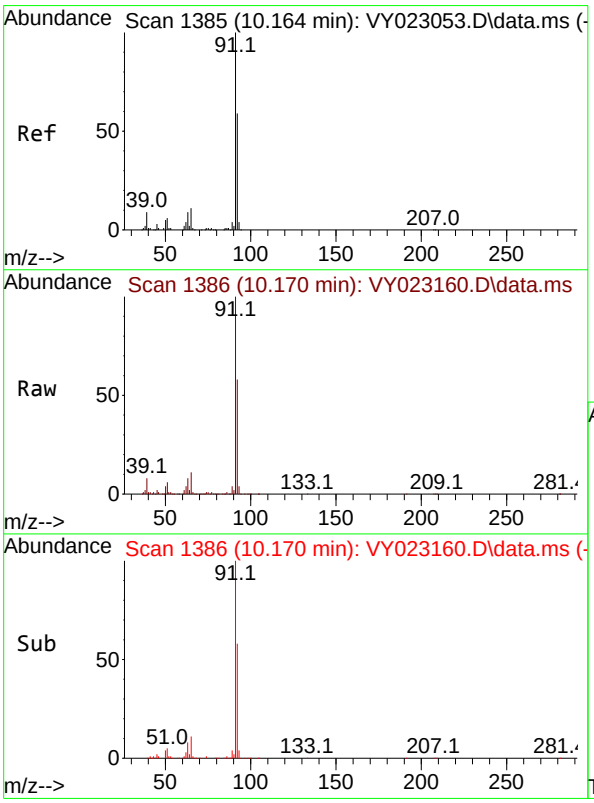
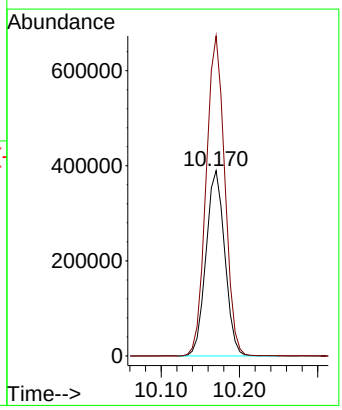
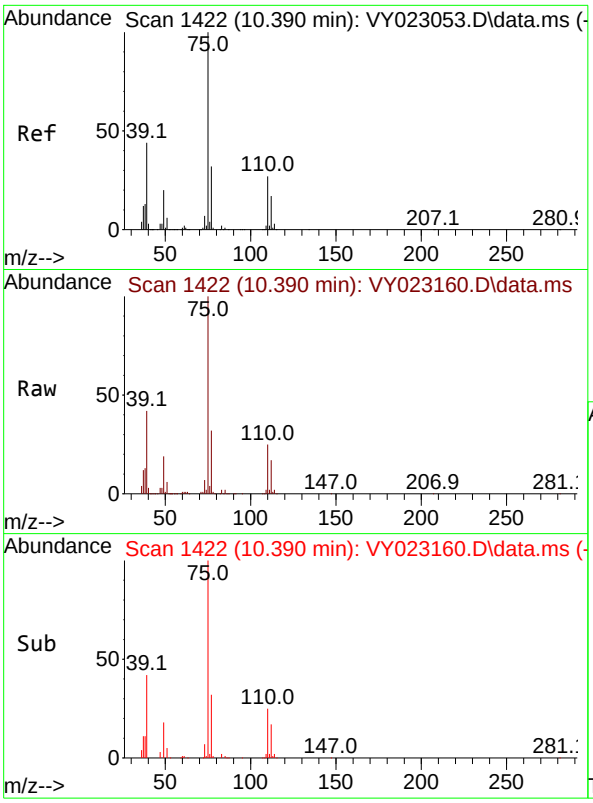


#52
Toluene
Concen: 51.179 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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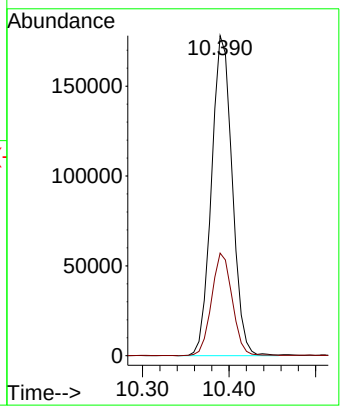
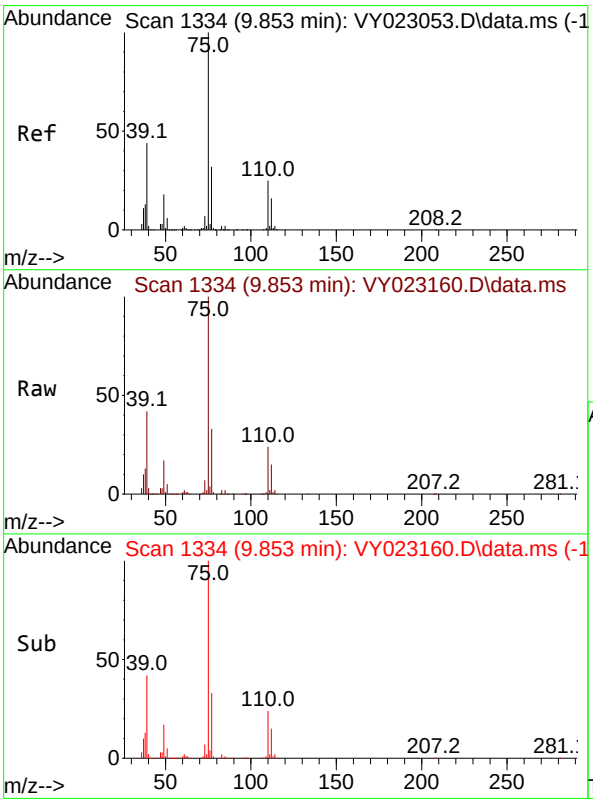
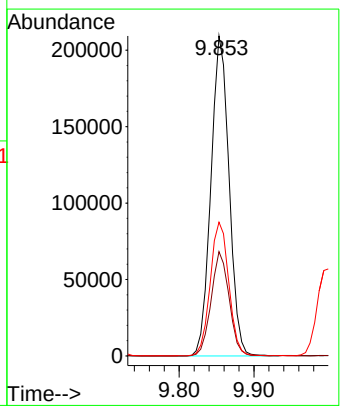


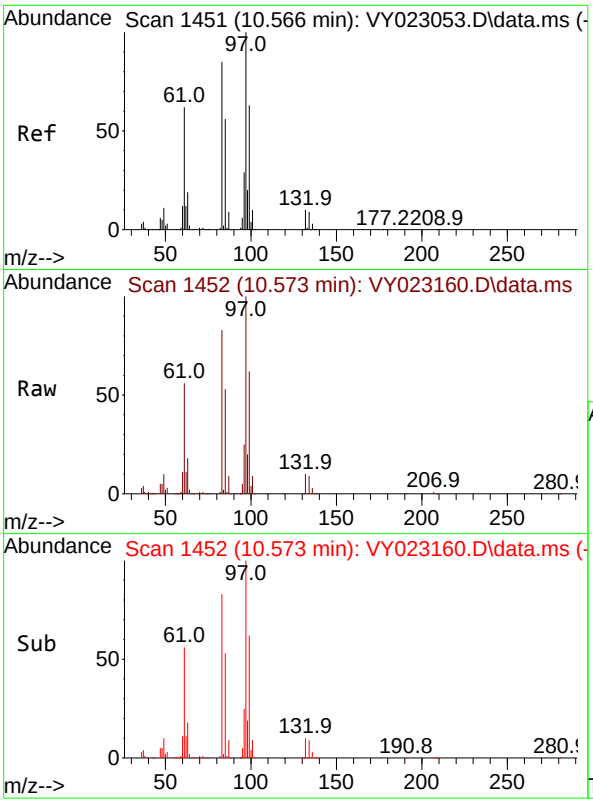


#54
cis-1,3-Dichloropropene
Concen: 48.751 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

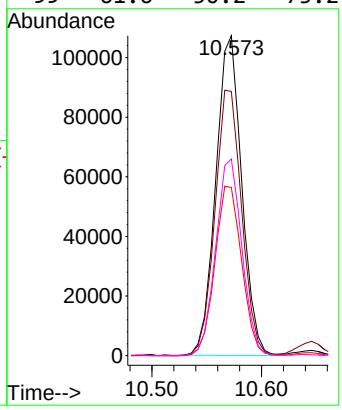




#55
1,1,2-Trichloroethane
Concen: 50.180 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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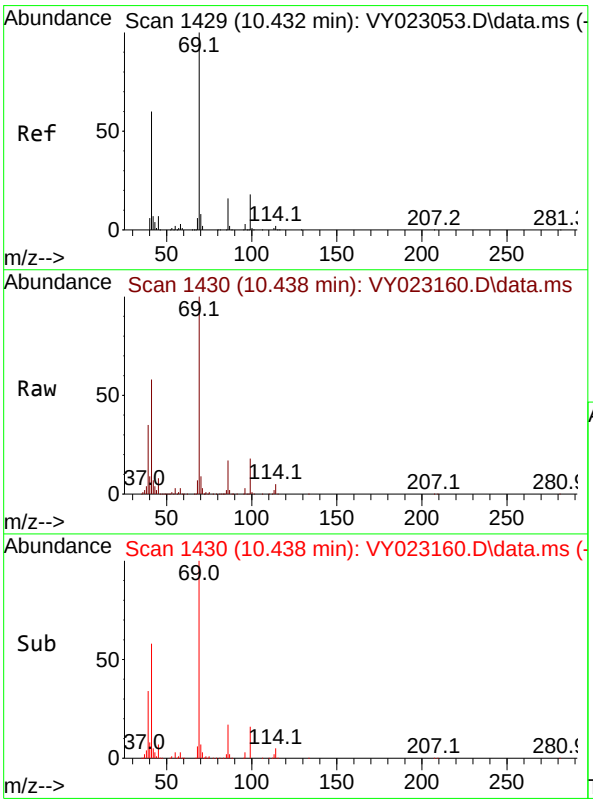
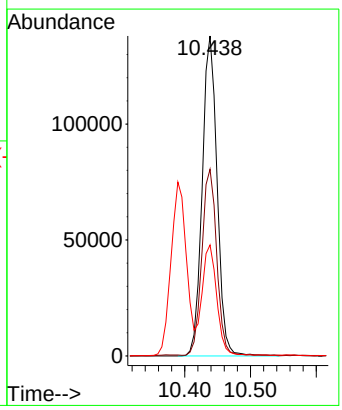
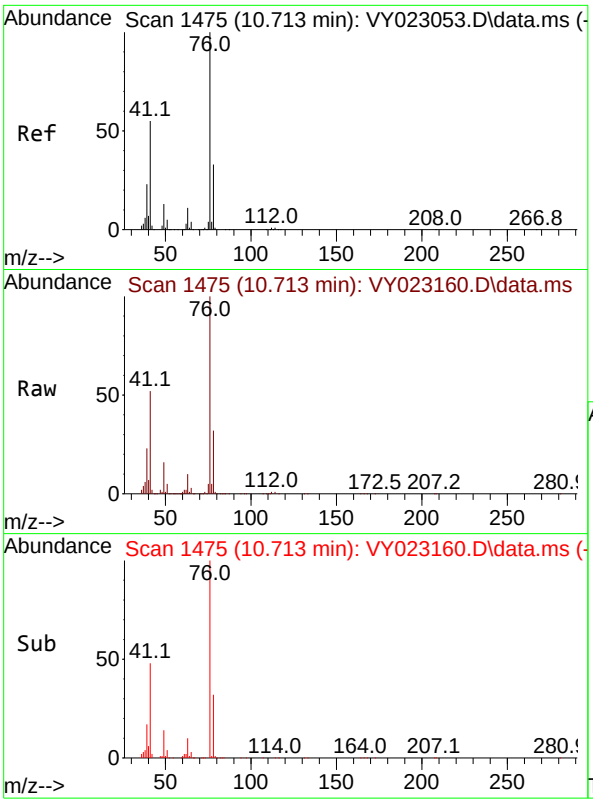


#56
Ethyl methacrylate
Concen: 48.375 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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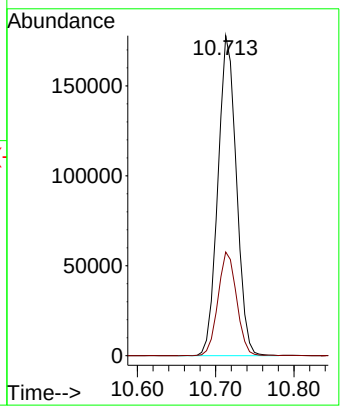
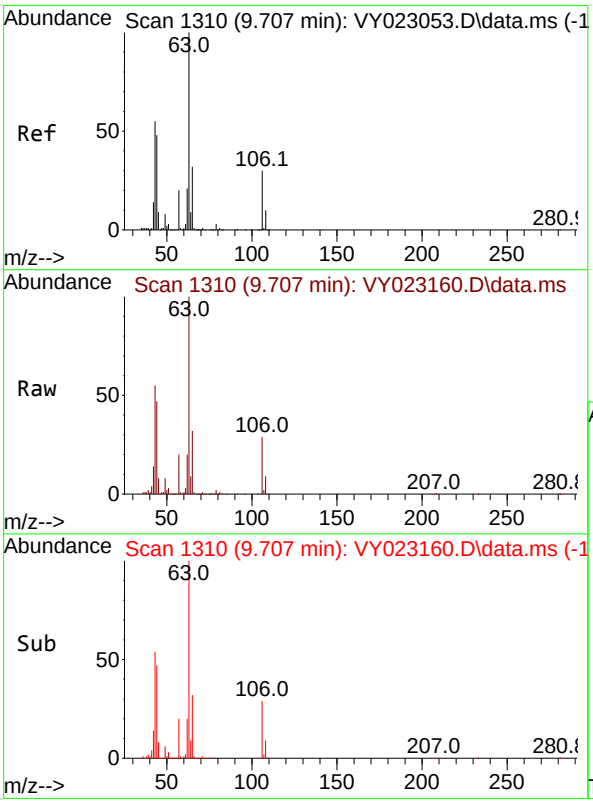
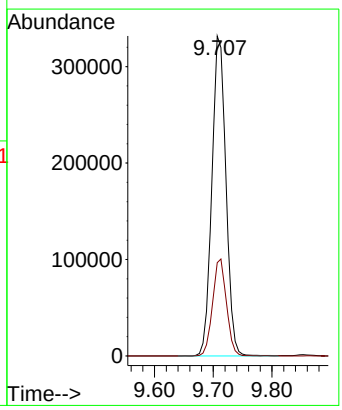


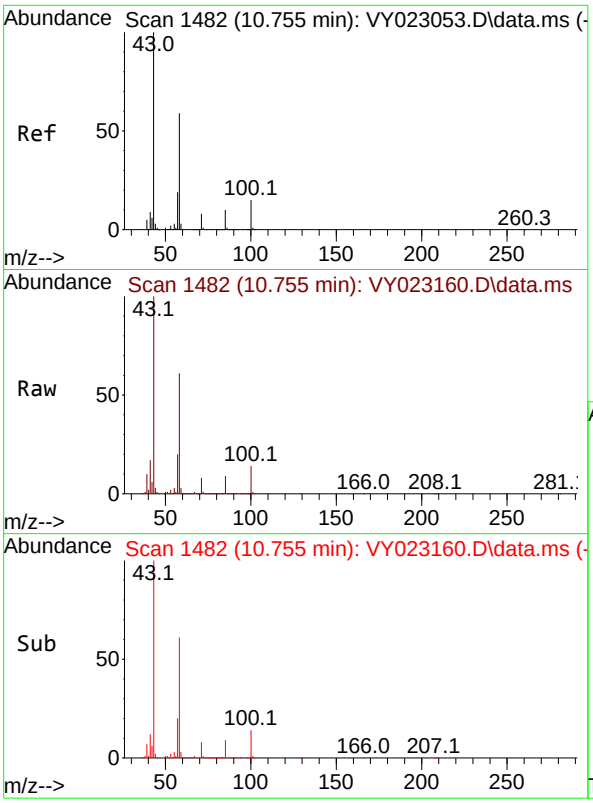


#58
2-Chloroethyl Vinyl ether
Concen: 259.330 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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: 435049

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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Reviewed By :John Carlone 08/20/2025
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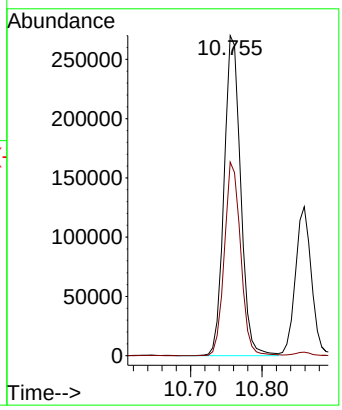
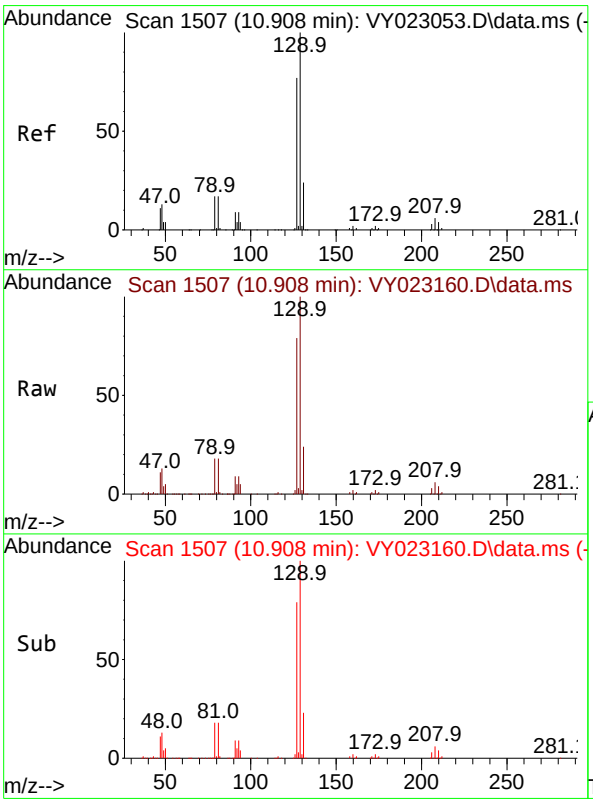
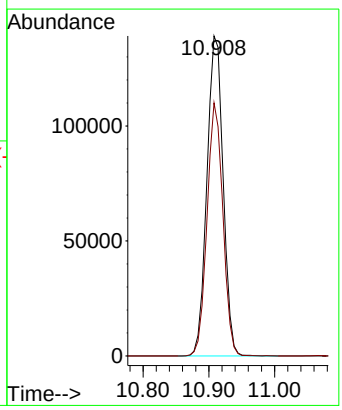


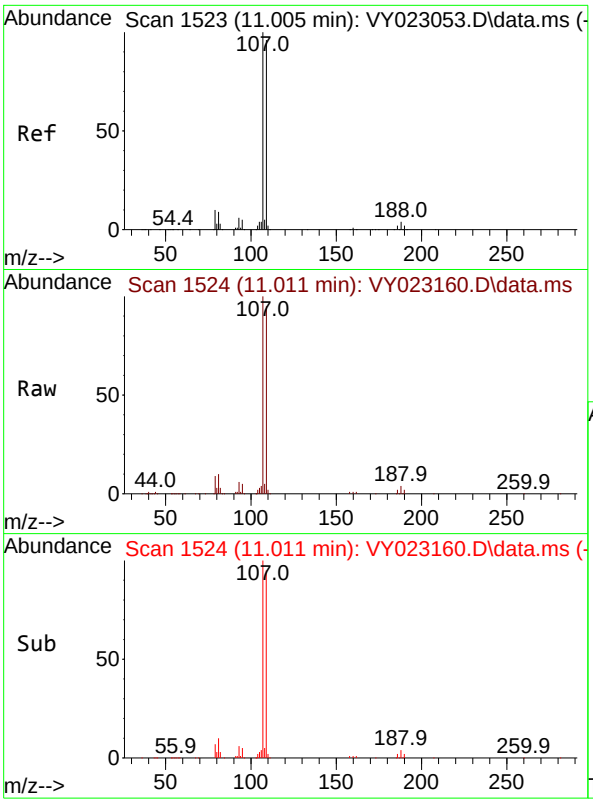


#60
Dibromochloromethane
Concen: 51.365 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:129 Resp: 238623

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5

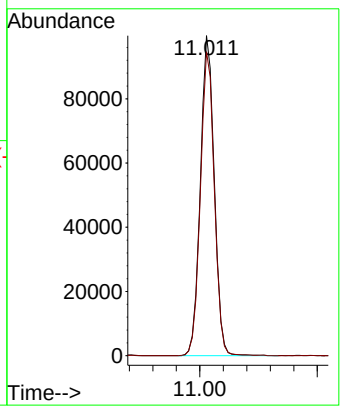




#61
1,2-Dibromoethane
Concen: 49.588 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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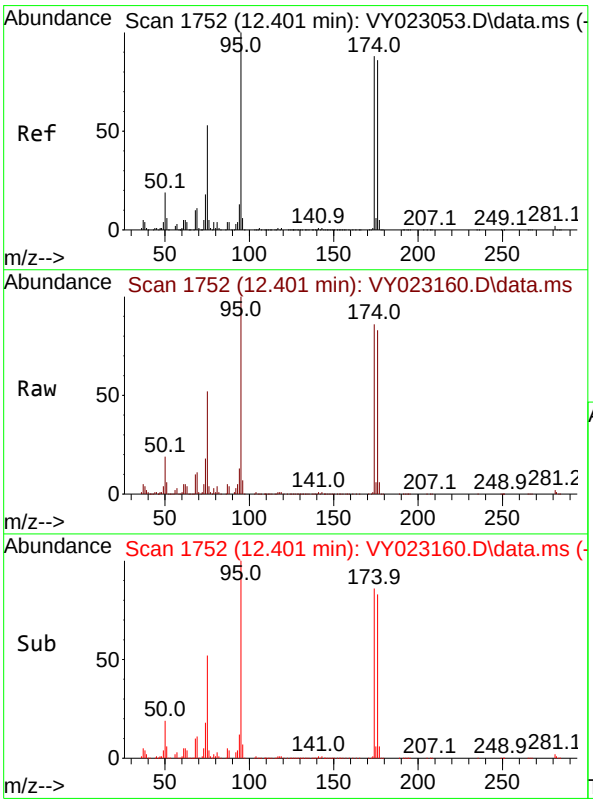
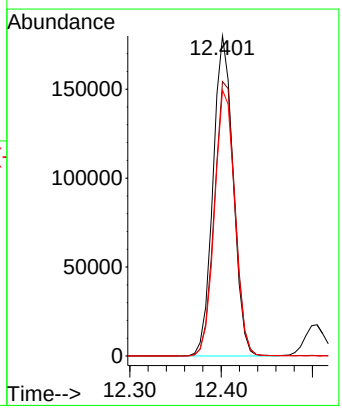
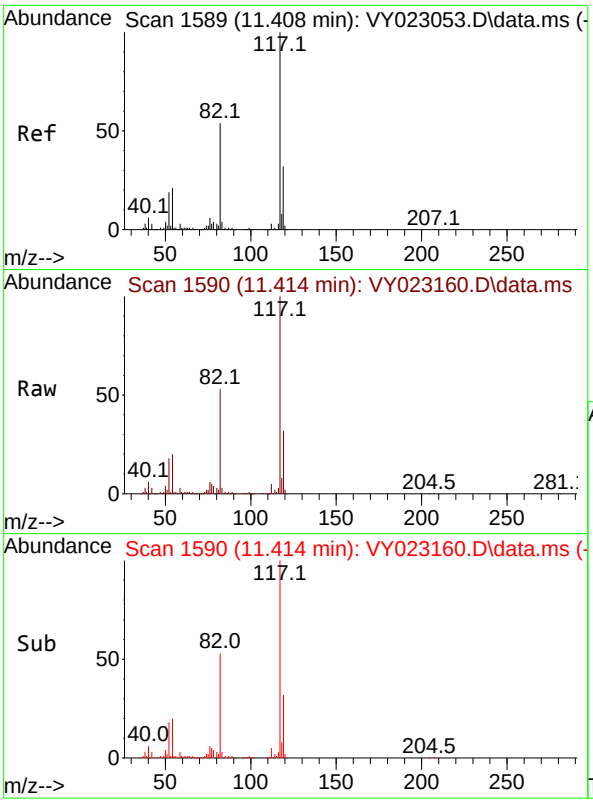


#62
4-Bromofluorobenzene
Concen: 50.308 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

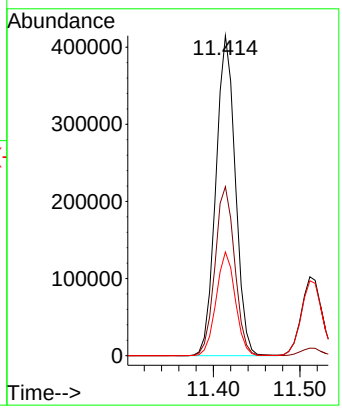




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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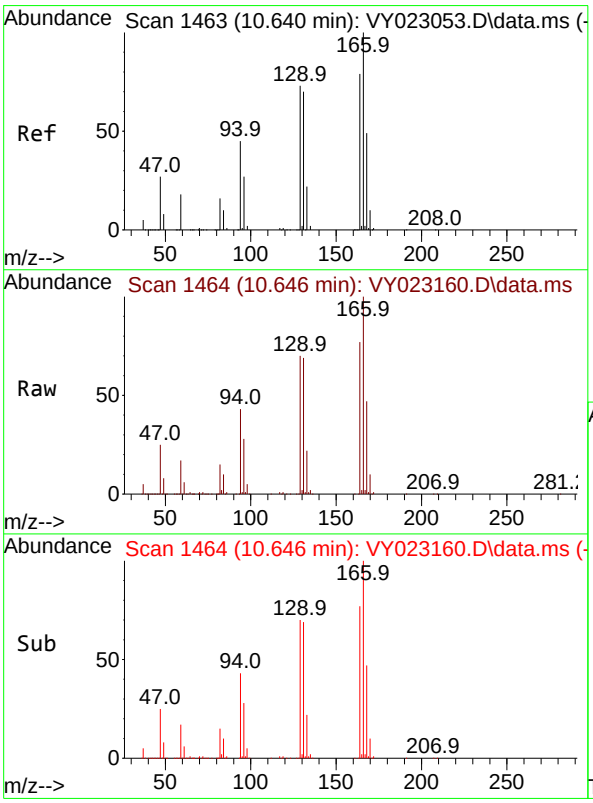
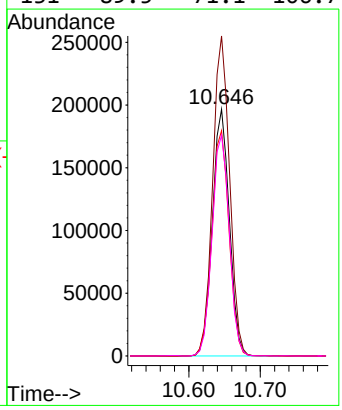
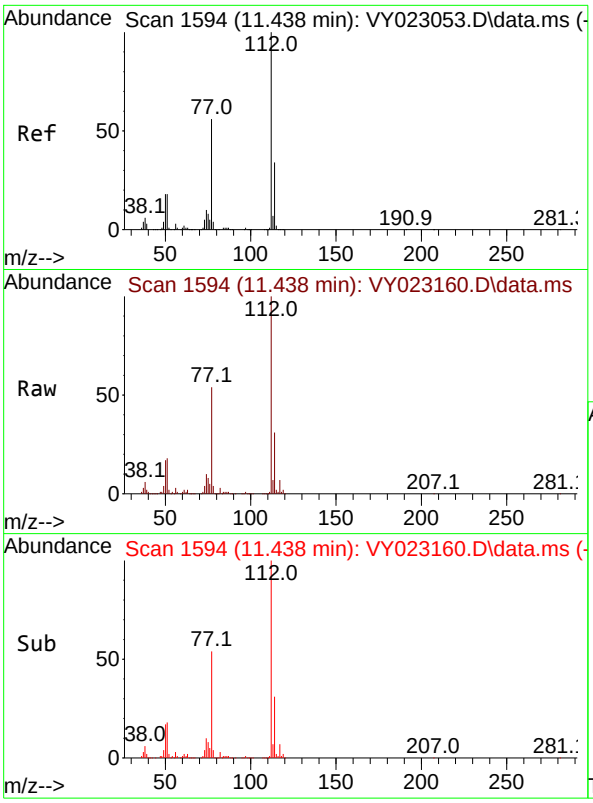


#64
Tetrachloroethene
Concen: 56.055 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

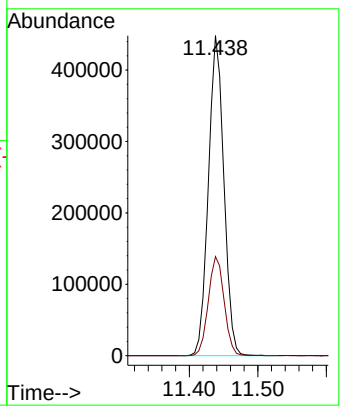




#65
Chlorobenzene
Concen: 50.434 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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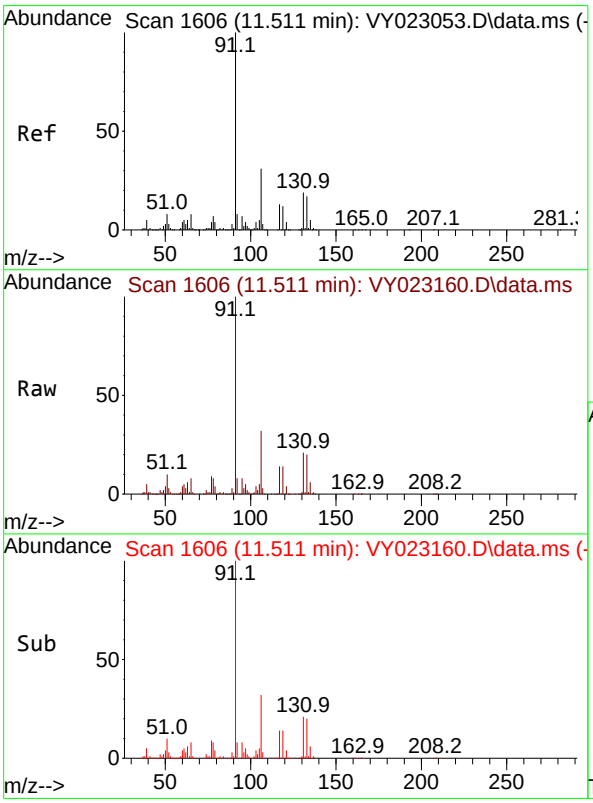
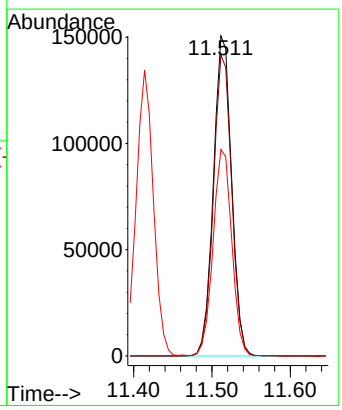
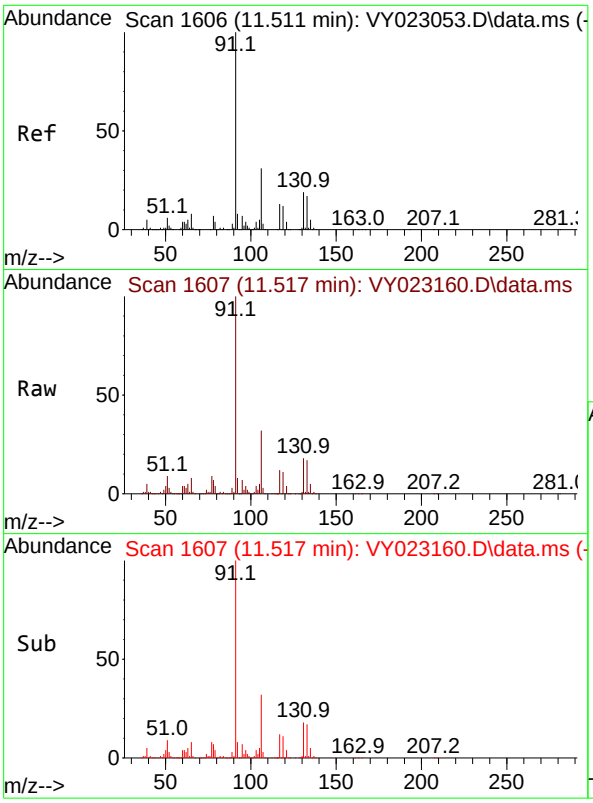


#66
1,1,1,2-Tetrachloroethane
Concen: 51.411 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

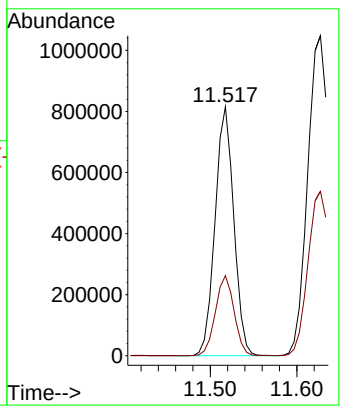




#67
Ethyl Benzene
Concen: 50.888 ug/l
RT: 11.517 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 122260

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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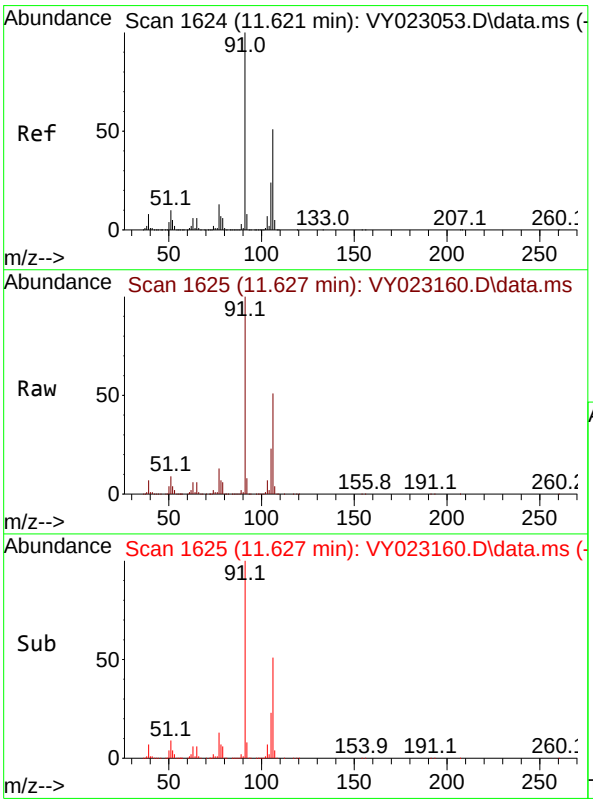
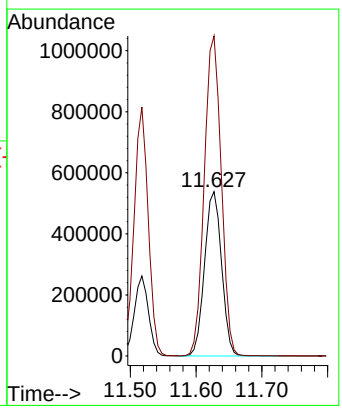
Supervised By :Mahesh Dadoda 08/20/2025

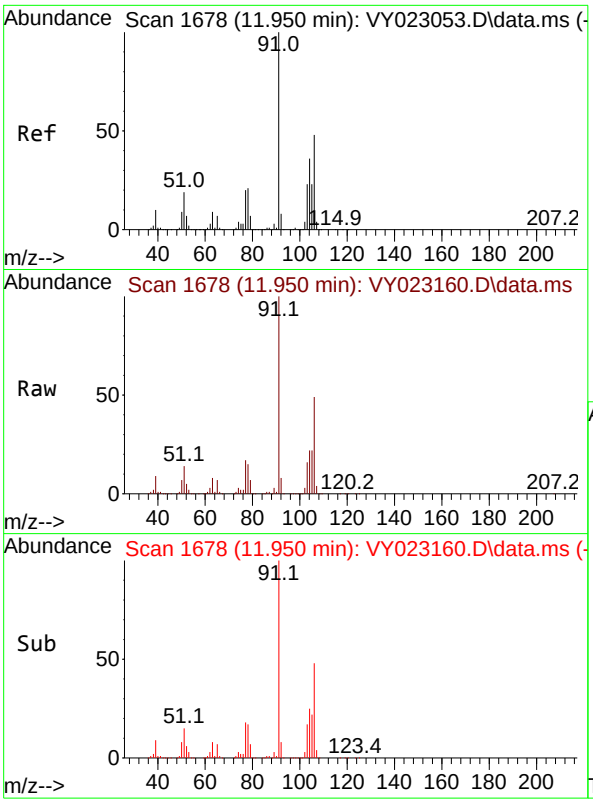


#68
m/p-Xylenes
Concen: 103.051 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

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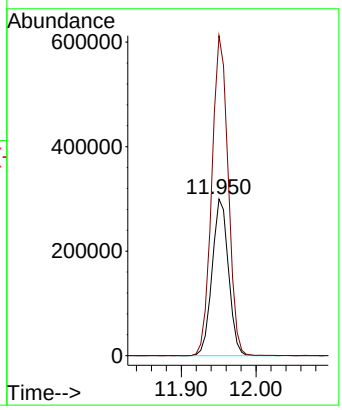
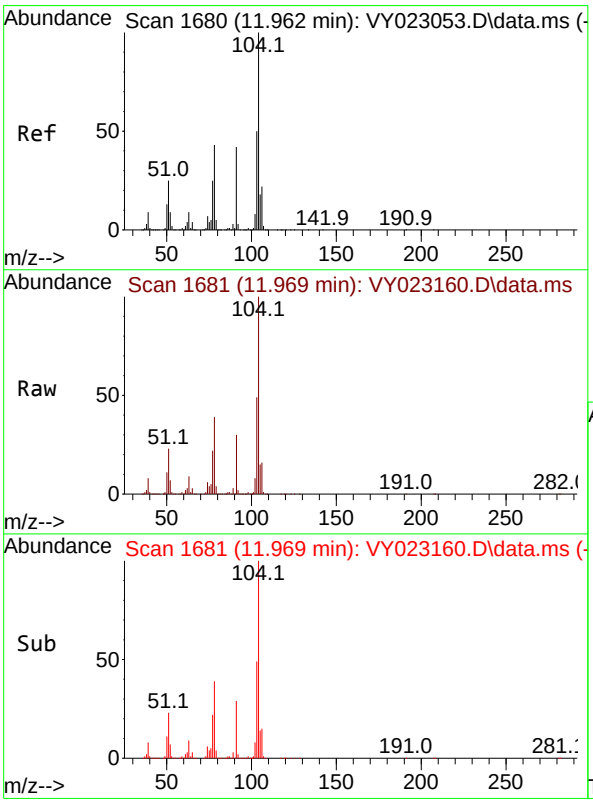
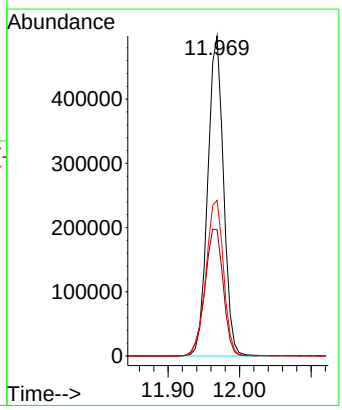


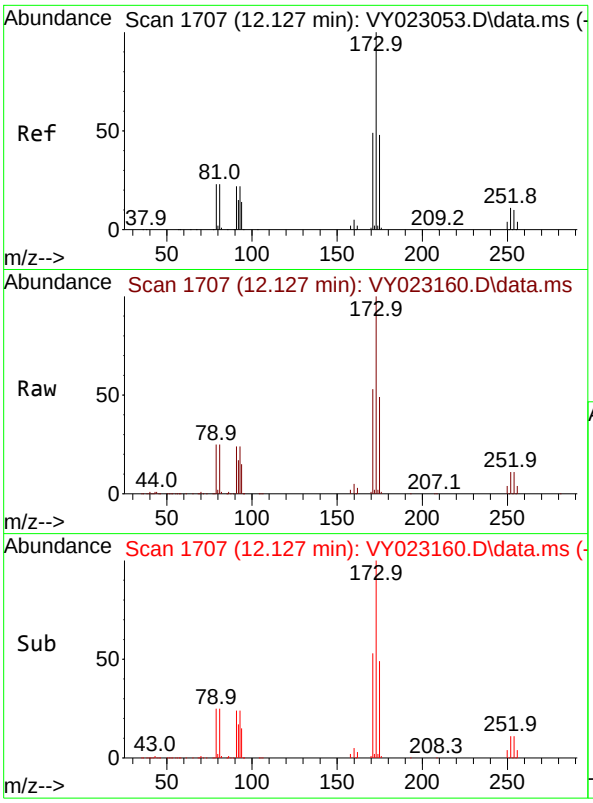


#70
Styrene
Concen: 53.132 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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 :
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ClientSampleId :
VSTDCCC050EC

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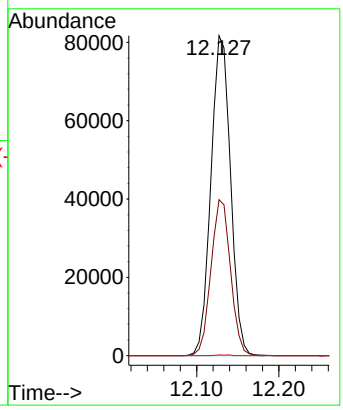
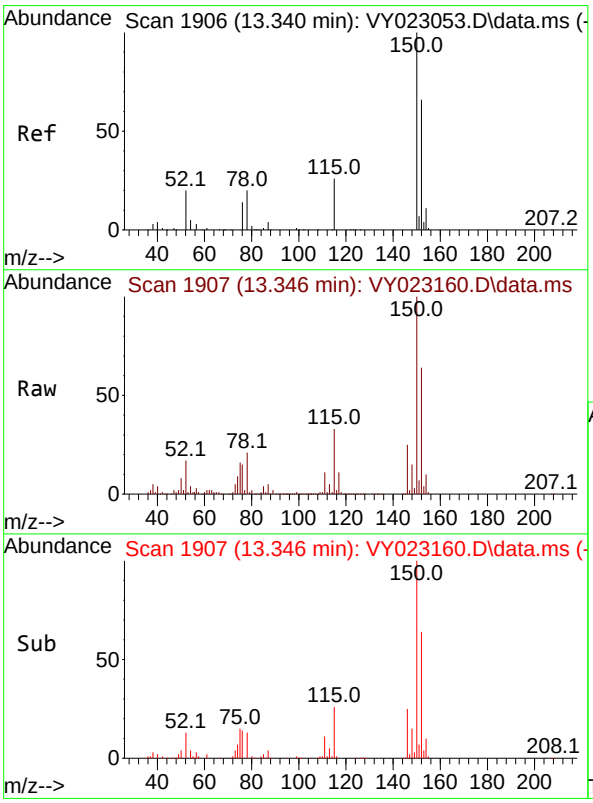
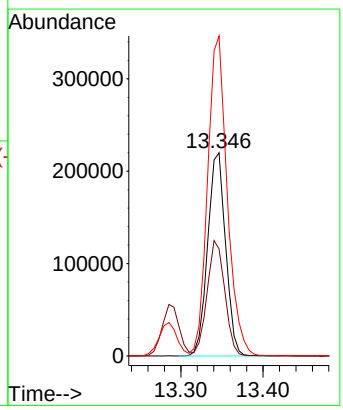


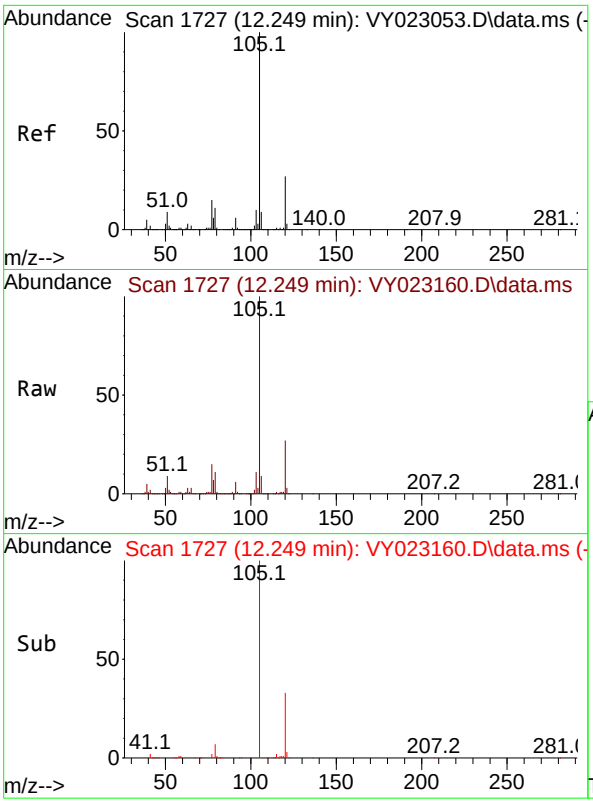


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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 :
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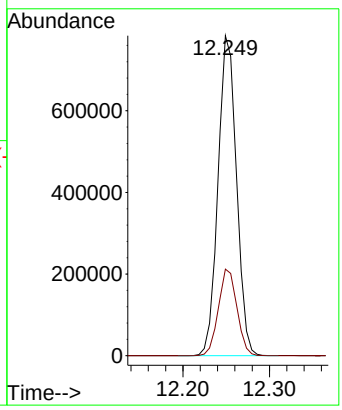
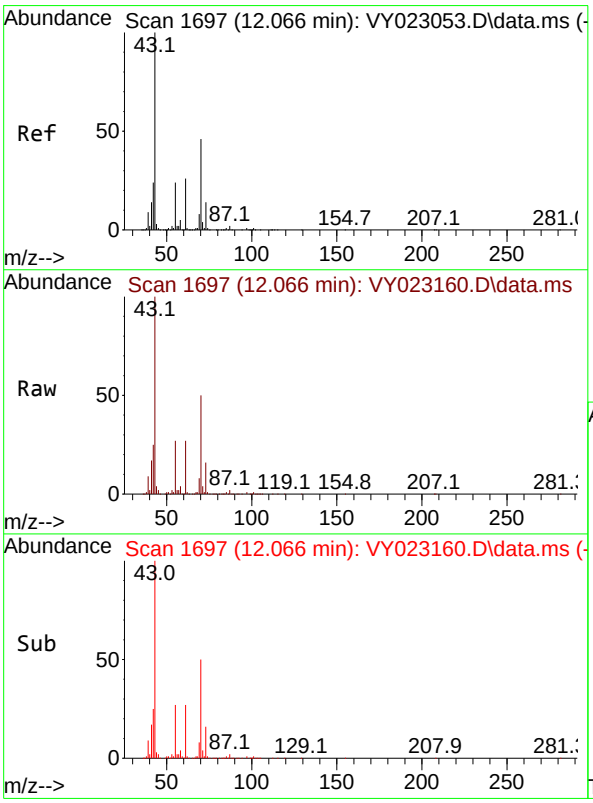
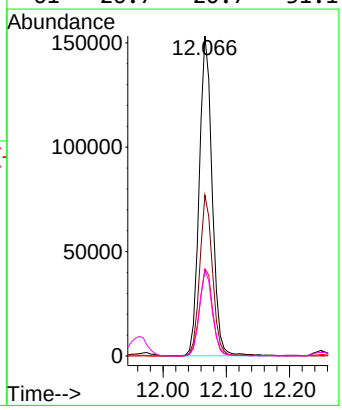


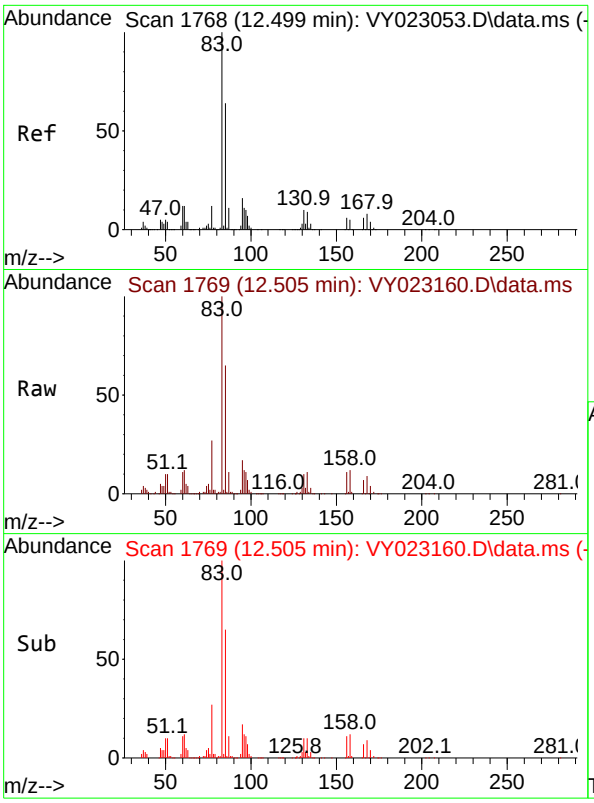


#74
N-amyl acetate
Concen: 43.613 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

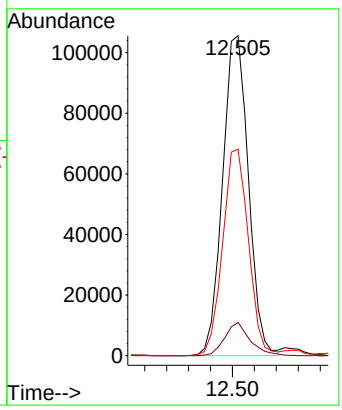




#75
1,1,2,2-Tetrachloroethane
Concen: 43.025 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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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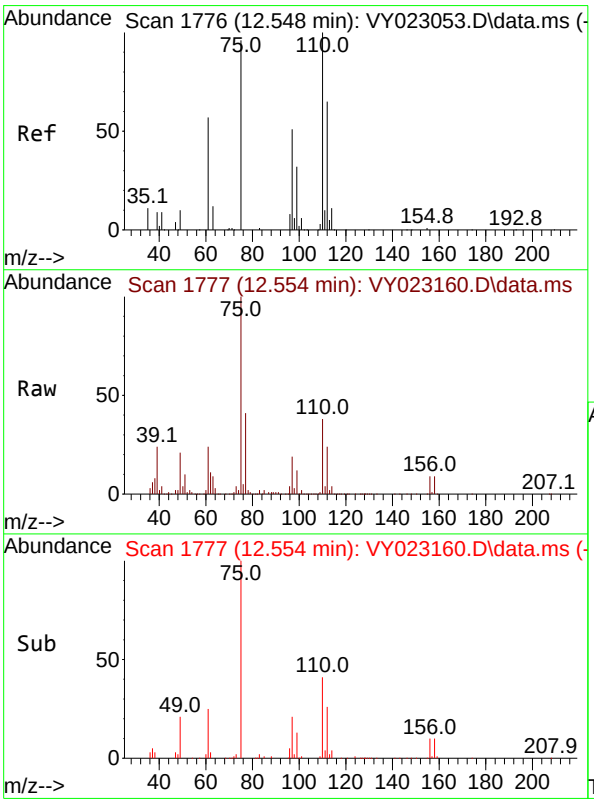
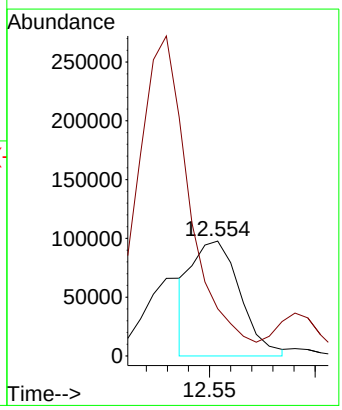
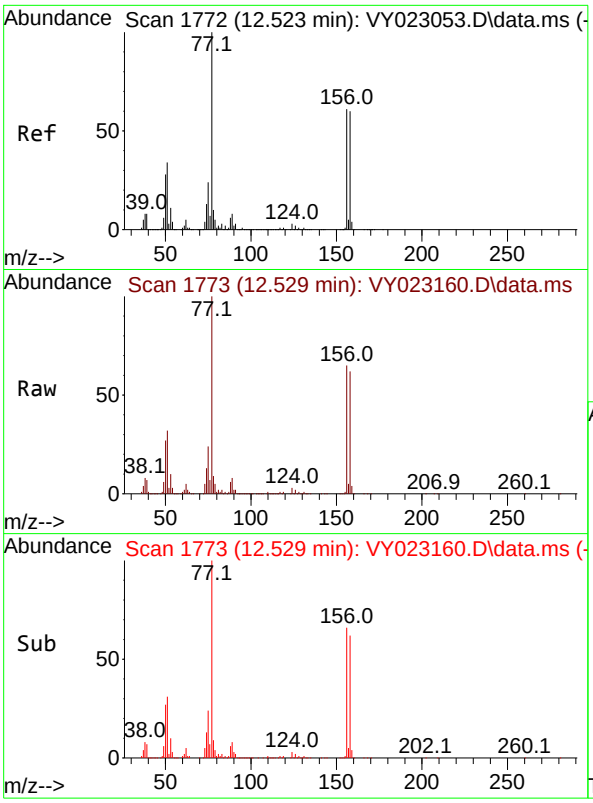


#76
1,2,3-Trichloropropane
Concen: 48.345 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 155632

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

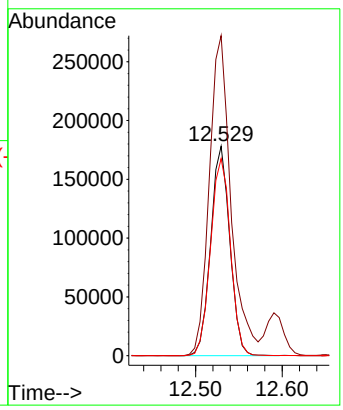




#77
Bromobenzene
Concen: 48.690 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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 :
VSTDCCC050EC

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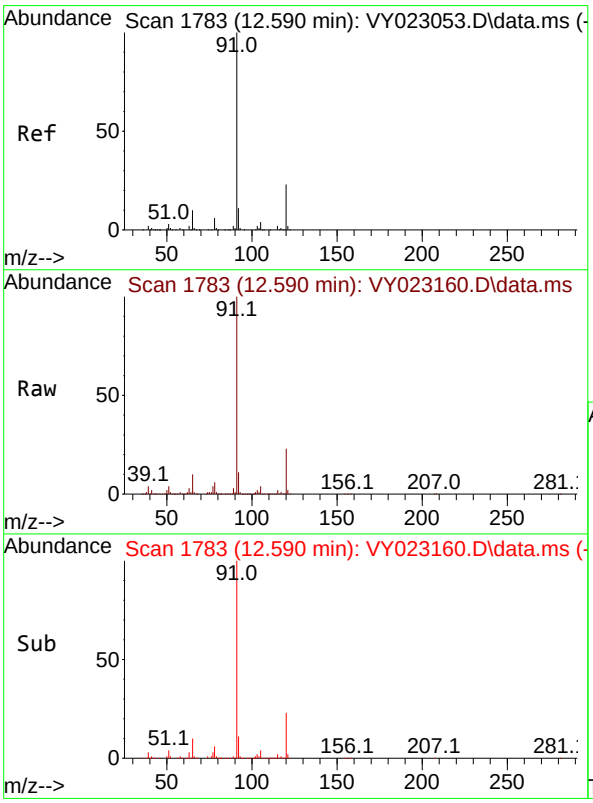
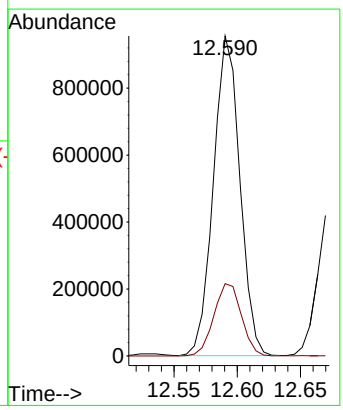
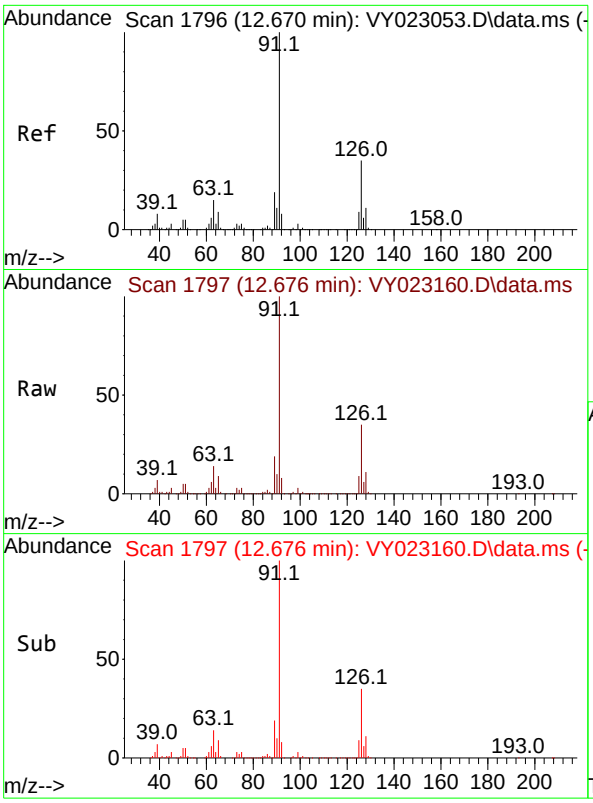


#78
n-propylbenzene
Concen: 49.502 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 1387452

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5

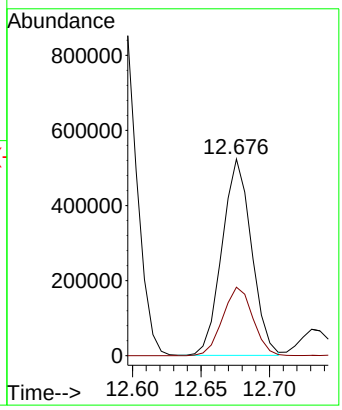




#79
2-Chlorotoluene
Concen: 48.829 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 78414

Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.4	52.3



Instrument :
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ClientSampleId :
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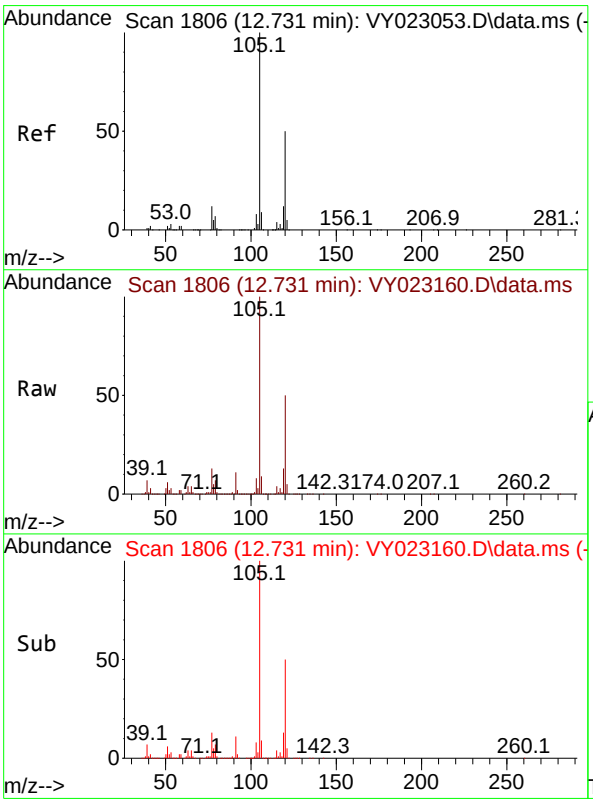
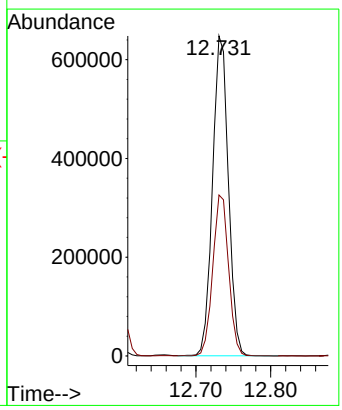
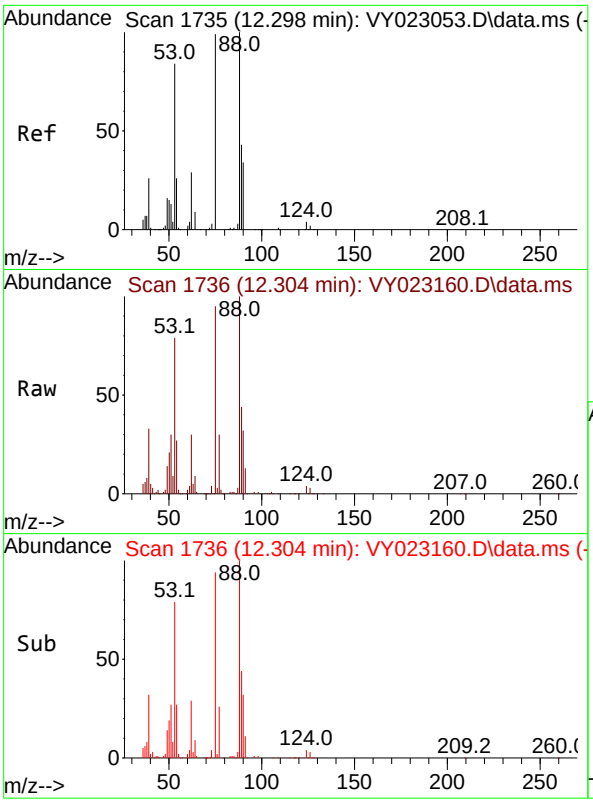


#80
1,3,5-Trimethylbenzene
Concen: 50.180 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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 :
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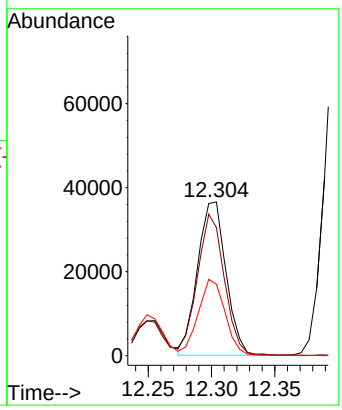
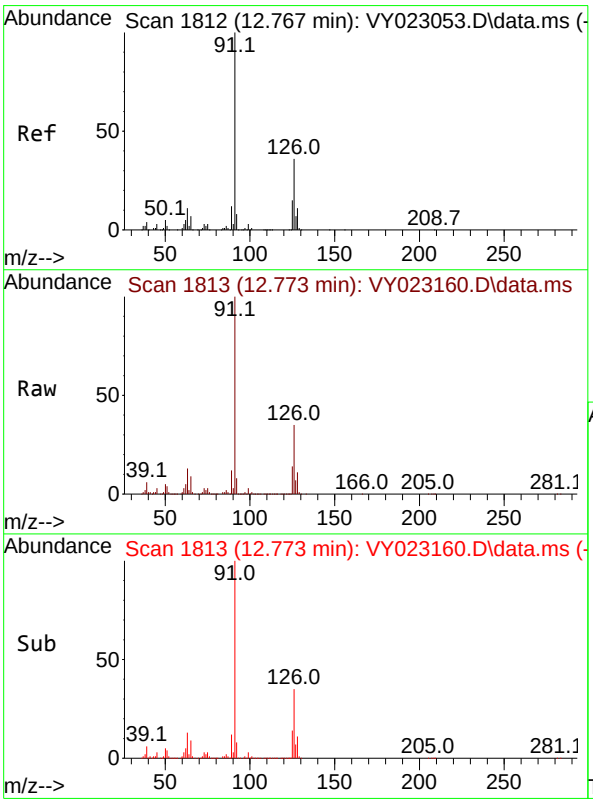
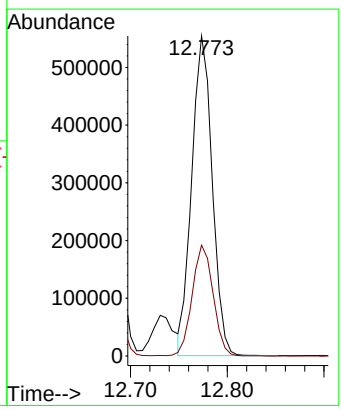


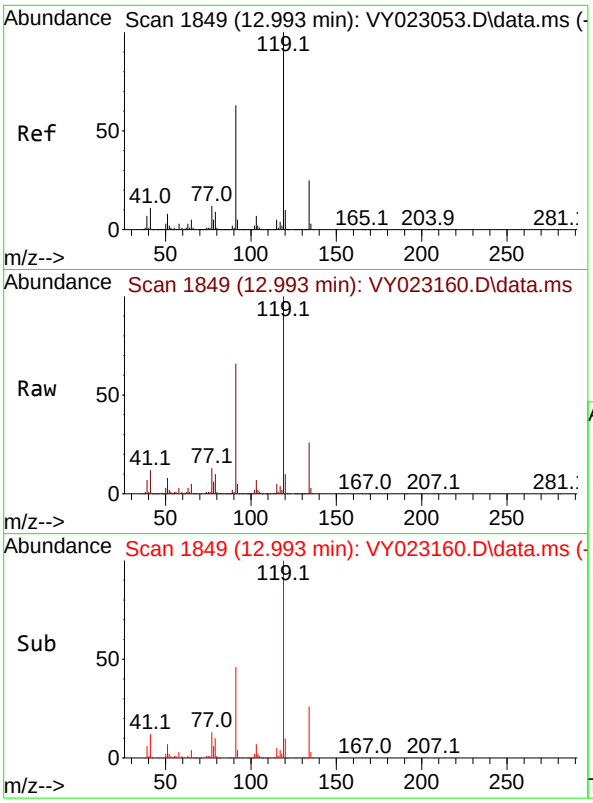


#82
4-Chlorotoluene
Concen: 48.995 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 816232

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	52.0

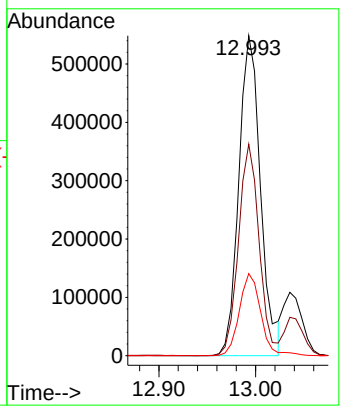




#83
tert-Butylbenzene
Concen: 49.921 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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 :
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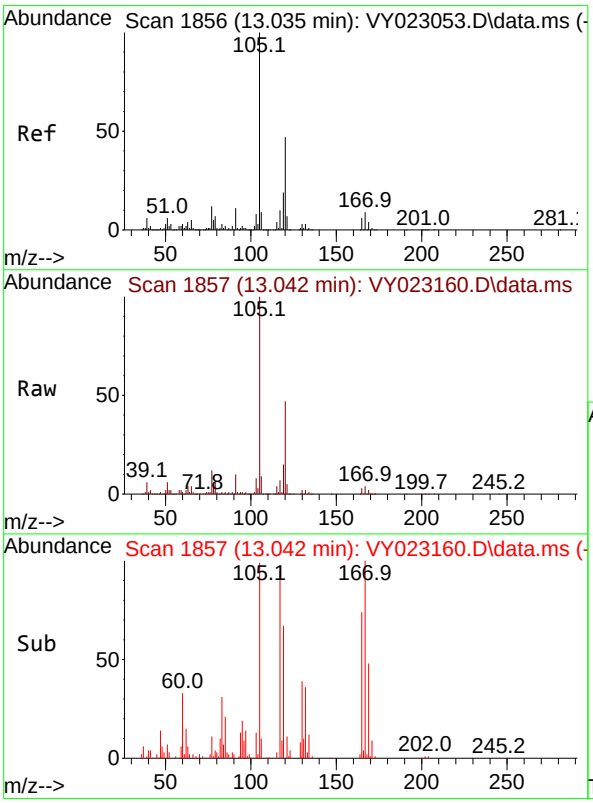
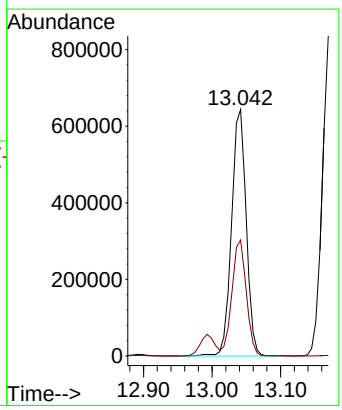
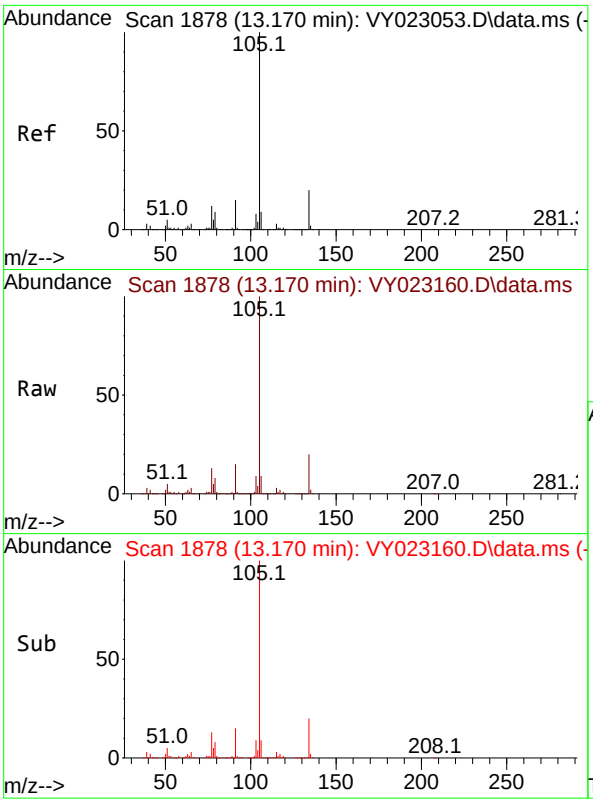


#84
1,2,4-Trimethylbenzene
Concen: 50.510 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 956661

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.0	69.0

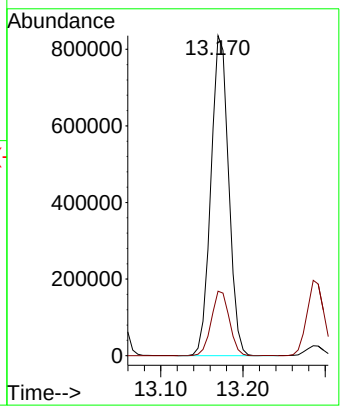




#85
sec-Butylbenzene
Concen: 49.485 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 124916

Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
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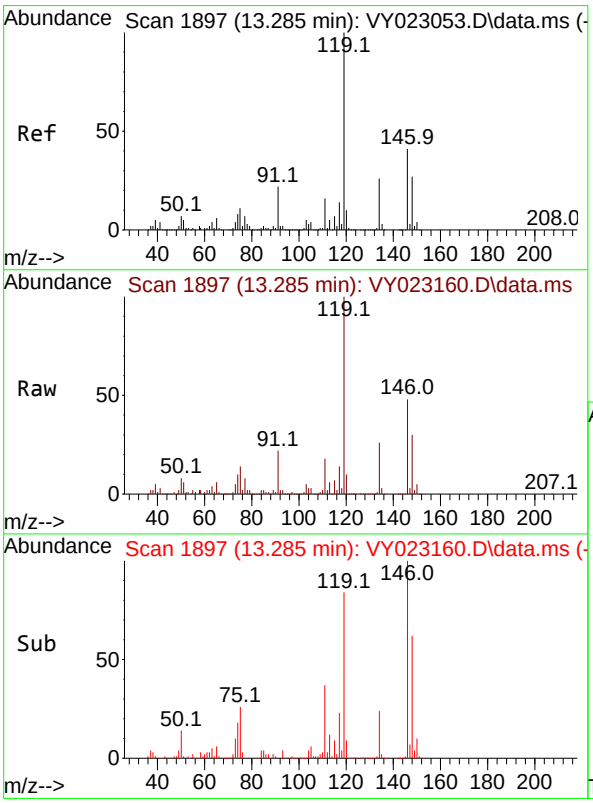
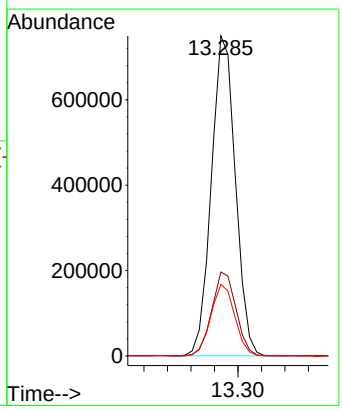
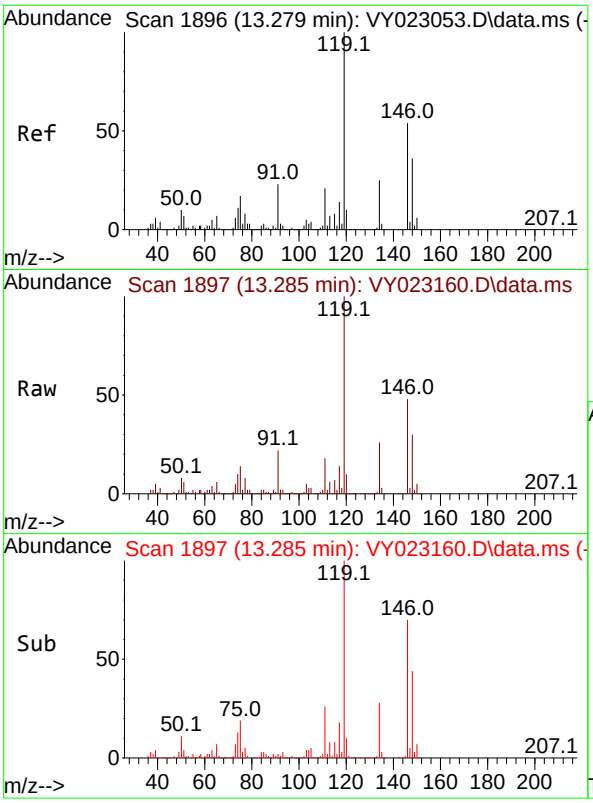


#86
p-Isopropyltoluene
Concen: 50.842 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

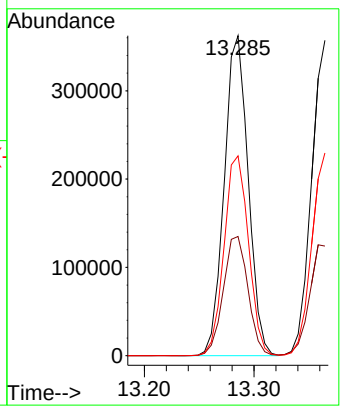




#87
1,3-Dichlorobenzene
Concen: 49.644 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 54983

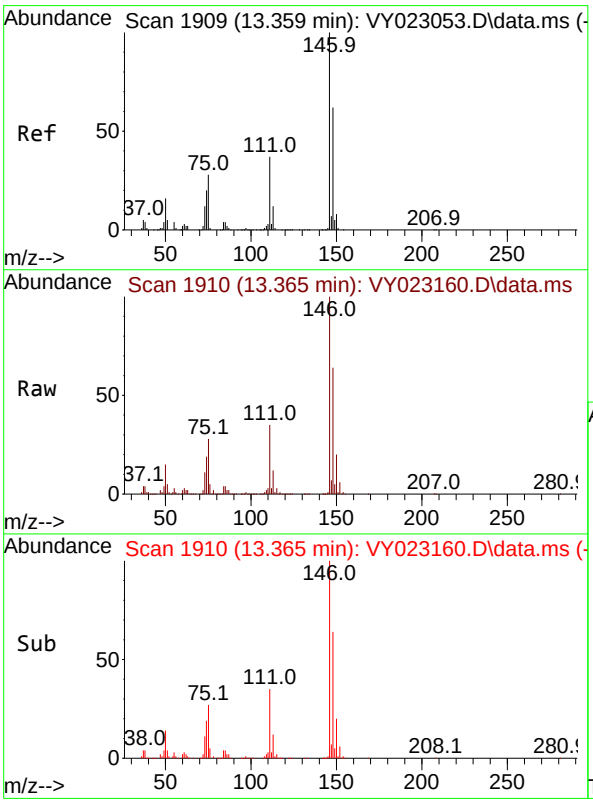
Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.6	58.7
148	63.8	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

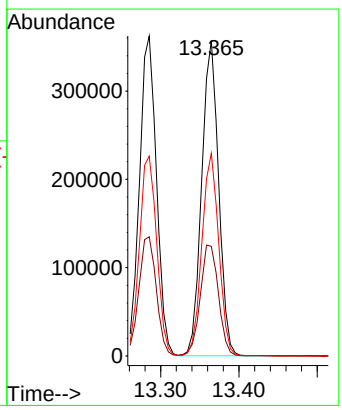
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

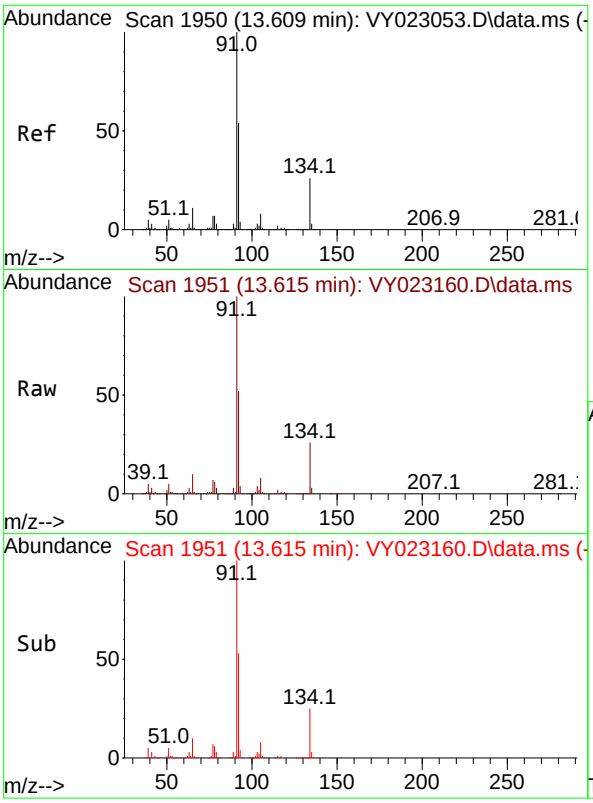


#88
1,4-Dichlorobenzene
Concen: 48.611 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

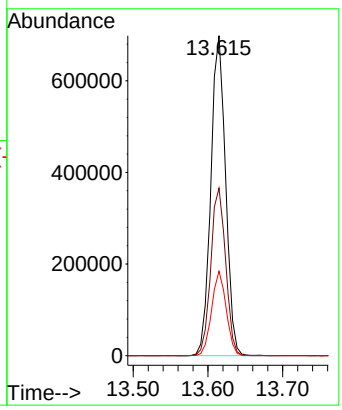




#89
n-Butylbenzene
Concen: 49.746 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 95733

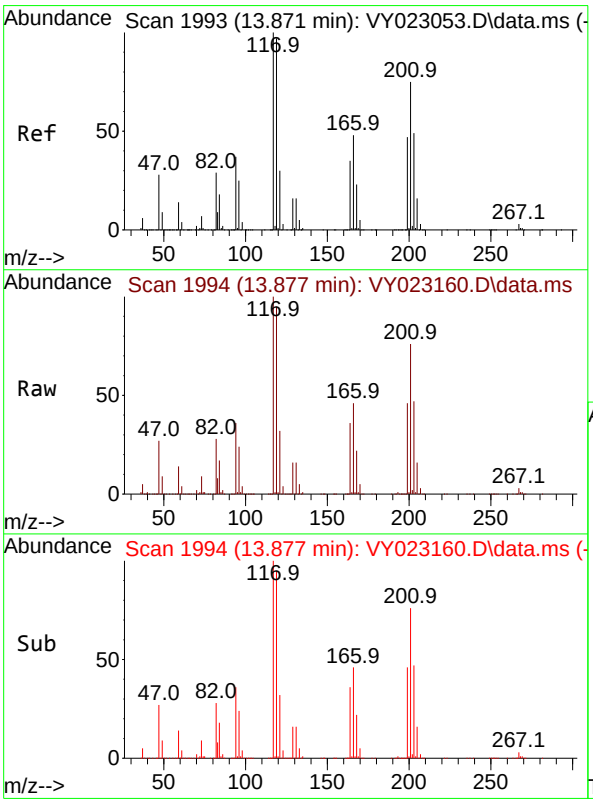
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.9	80.7
134	26.1	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

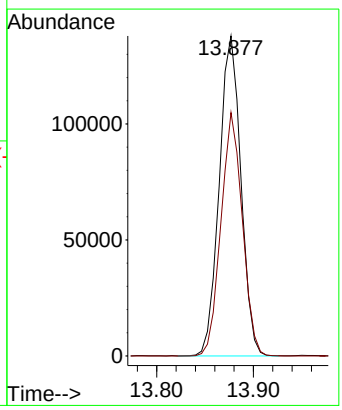
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

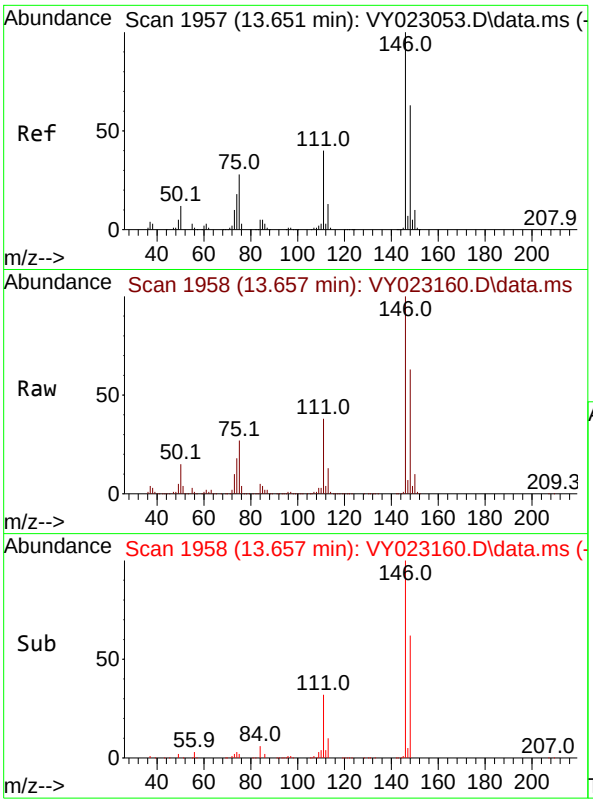


#90
Hexachloroethane
Concen: 50.008 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 214503

Ion	Ratio	Lower	Upper
117	100		
201	75.0	38.4	115.1

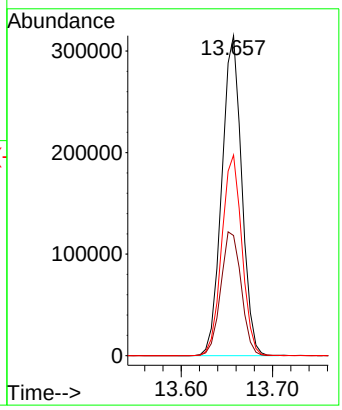




#91
1,2-Dichlorobenzene
Concen: 49.177 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 47768

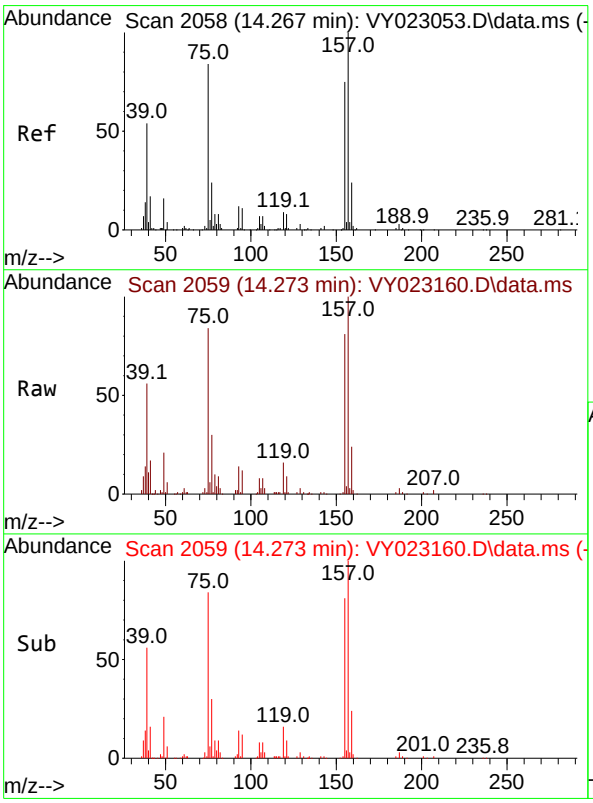
Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.8
148	63.5	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

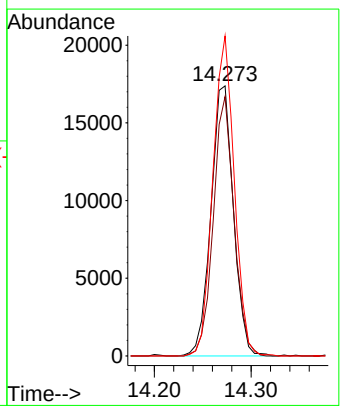
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

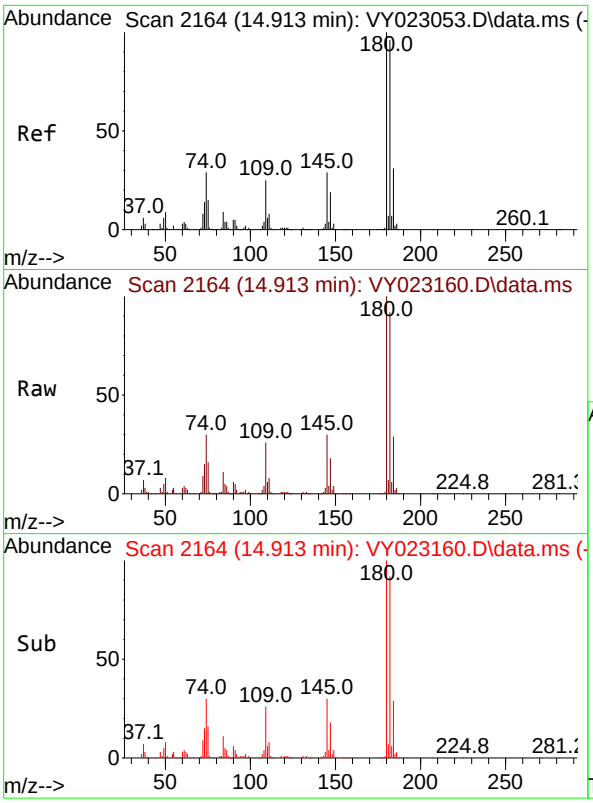


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

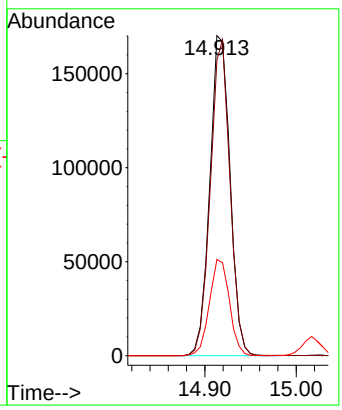




#93
1,2,4-Trichlorobenzene
Concen: 45.553 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:180 Resp: 26166

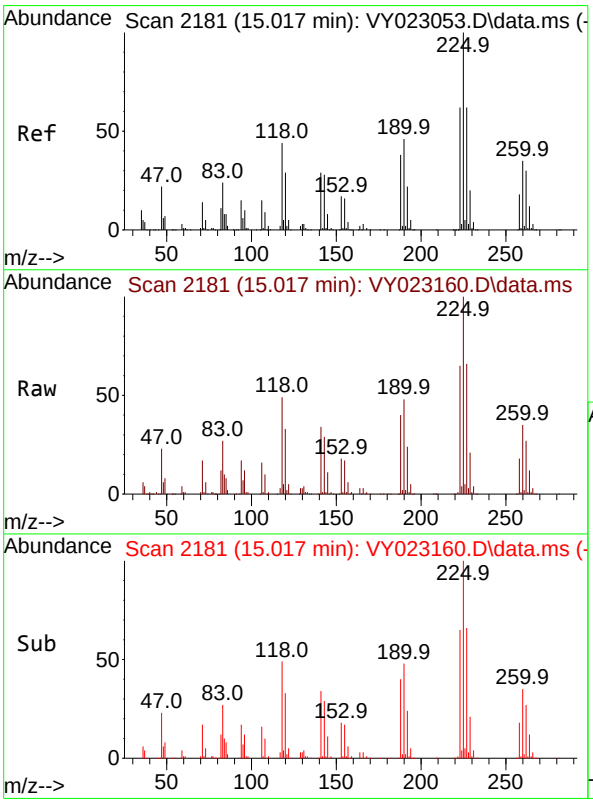
Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.8	140.4
145	29.7	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

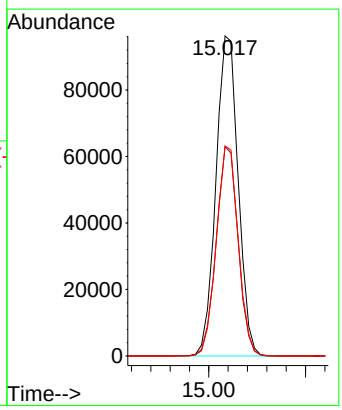
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

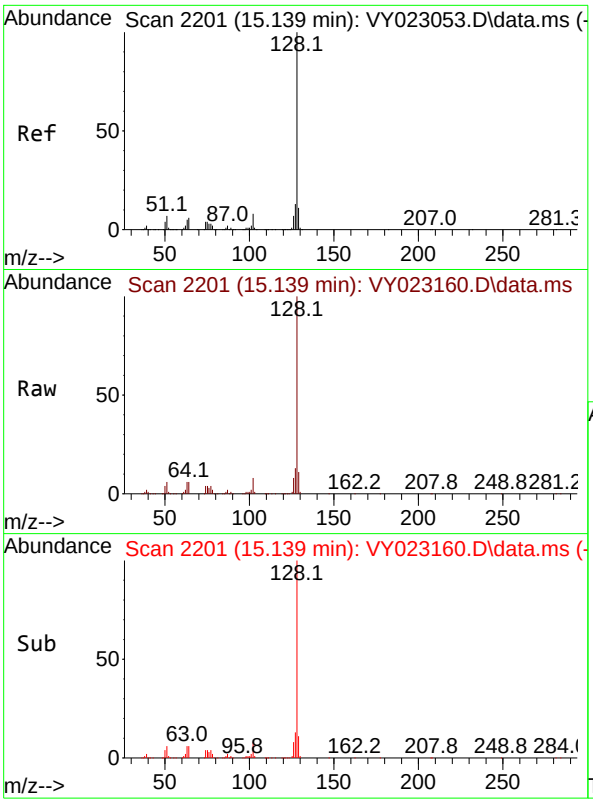


#94
Hexachlorobutadiene
Concen: 45.434 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

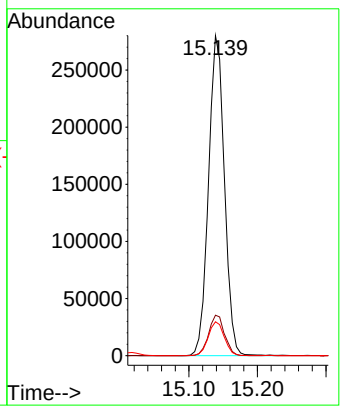




#95
Naphthalene
Concen: 46.168 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

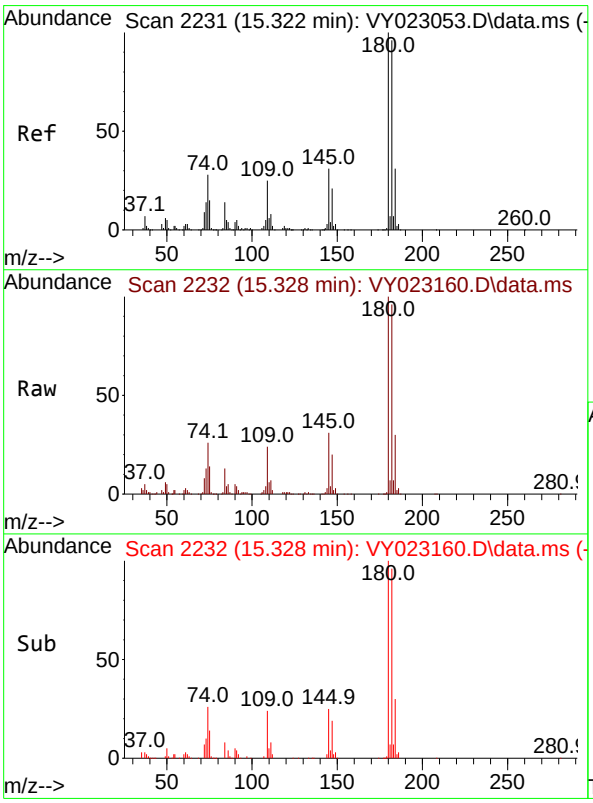
Tgt Ion:128 Resp: 45221

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

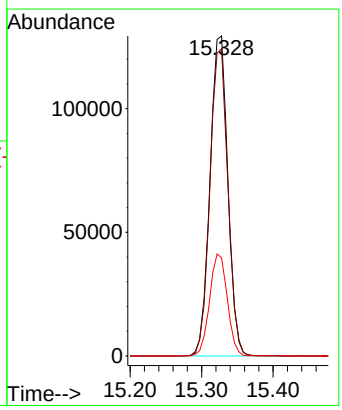
Manual Integrations APPROVED
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#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



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

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

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

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

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

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

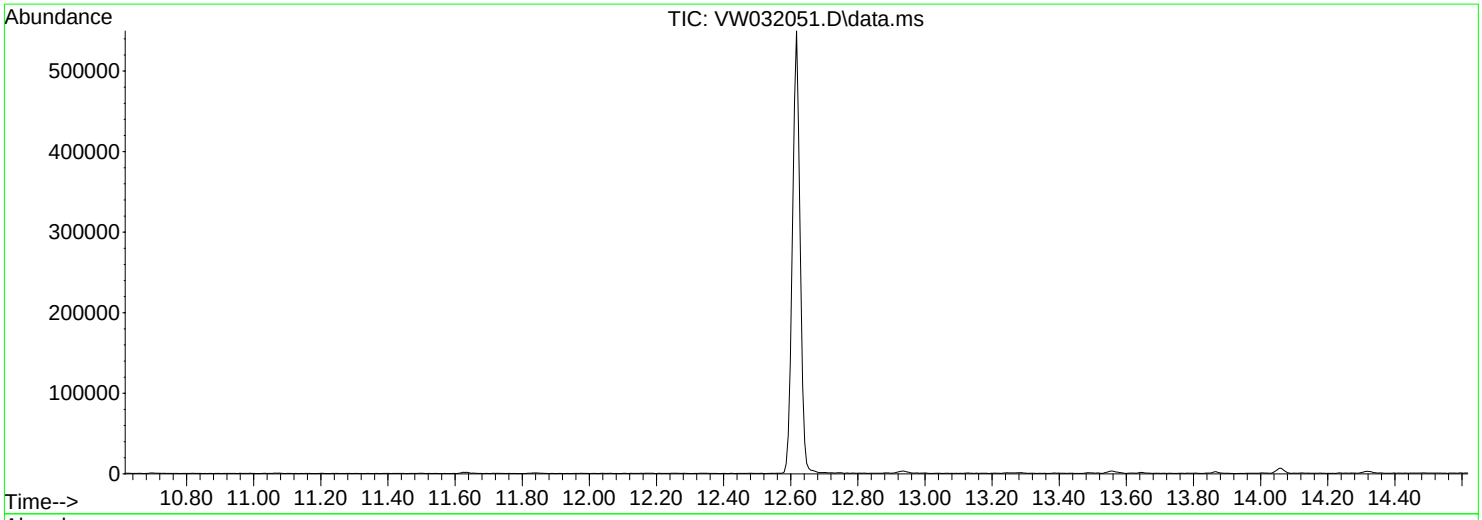
QC SAMPLE DATA

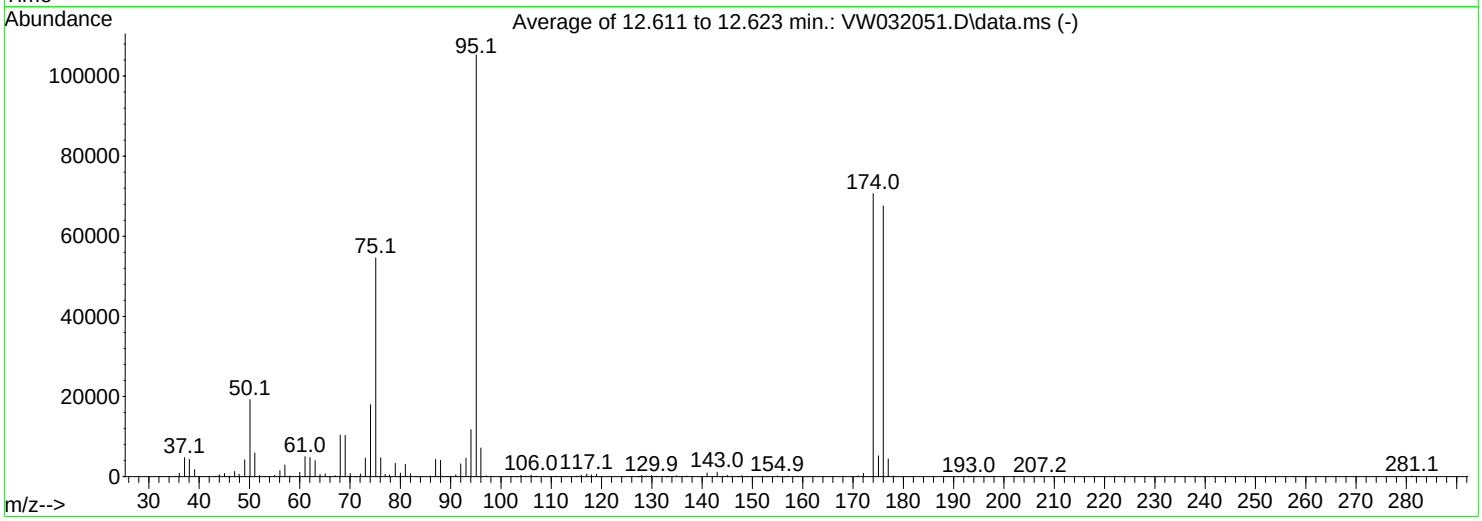
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032051.D
Acq On : 11 Aug 2025 07:53
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

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

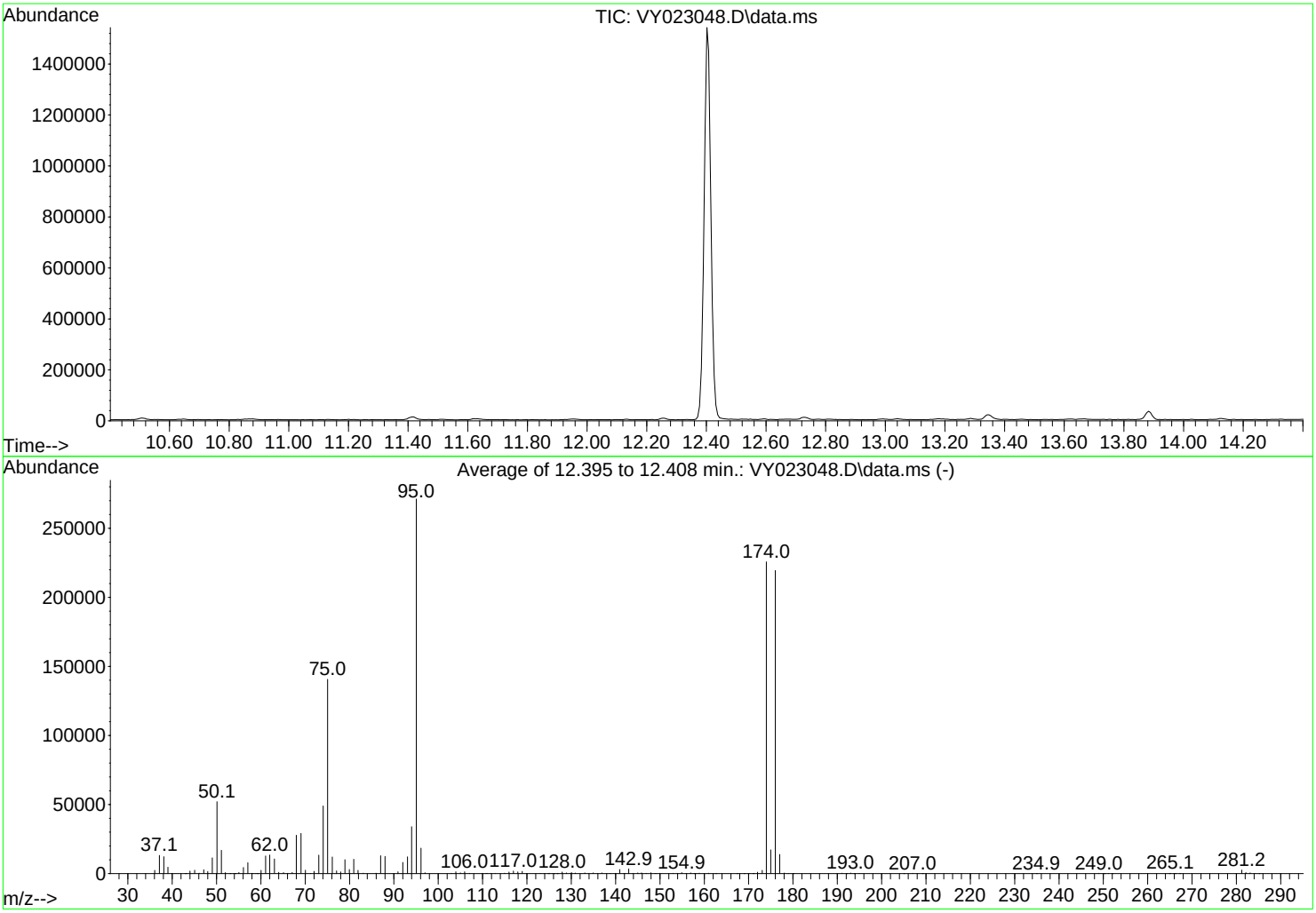
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	19253	PASS
75	95	30	60	51.9	54621	PASS
95	95	100	100	100.0	105291	PASS
96	95	5	9	6.8	7140	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.1	70667	PASS
175	174	5	9	7.3	5189	PASS
176	174	95	101	95.6	67573	PASS
177	176	5	9	6.5	4421	PASS

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

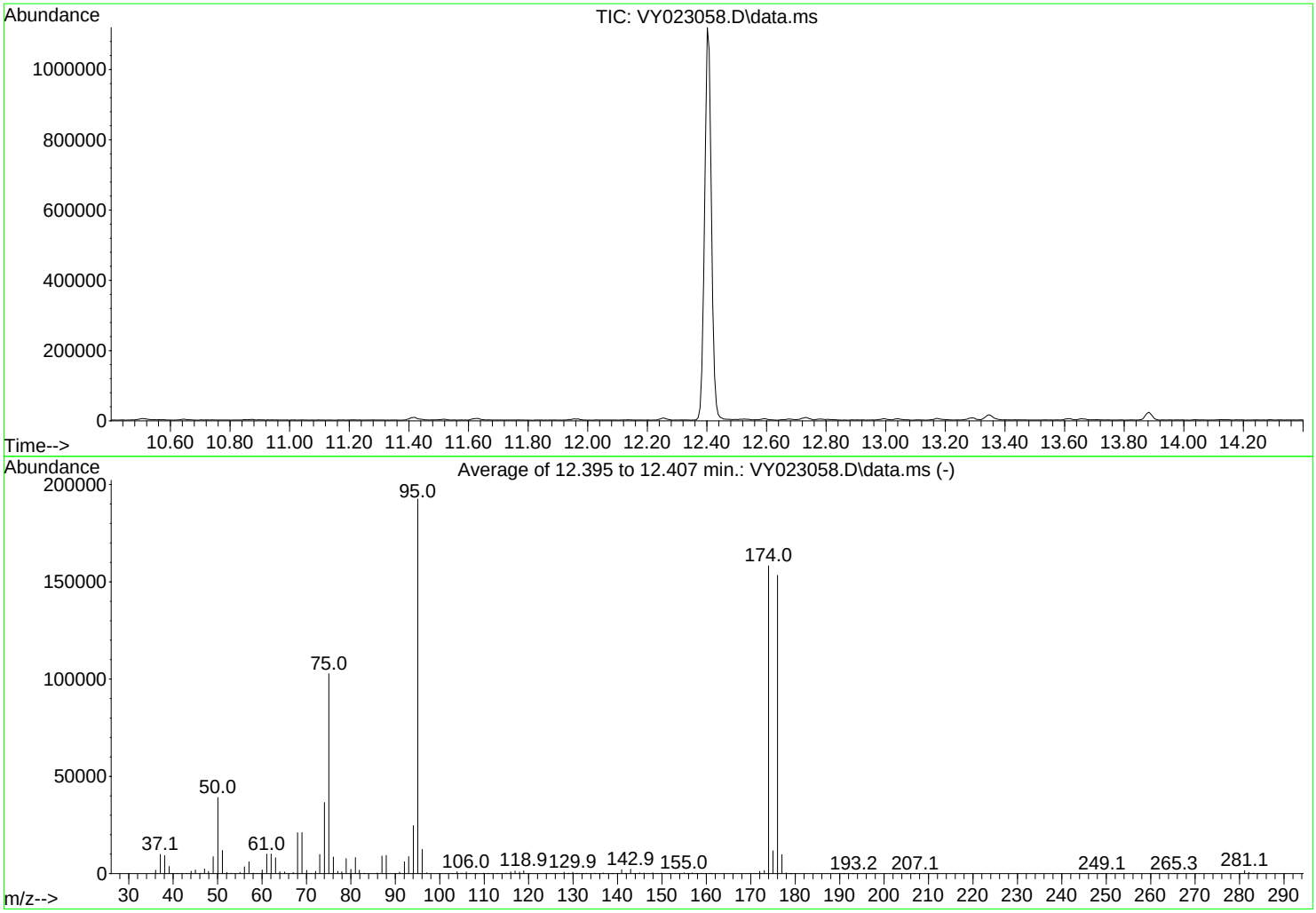
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	52107	PASS
75	95	30	60	51.9	140677	PASS
95	95	100	100	100.0	271211	PASS
96	95	5	9	6.8	18415	PASS
173	174	0.00	2	1.1	2383	PASS
174	95	50	100	83.2	225707	PASS
175	174	5	9	7.6	17158	PASS
176	174	95	101	97.2	219435	PASS
177	176	5	9	6.4	13937	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023058.D
Acq On : 13 Aug 2025 08:21
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

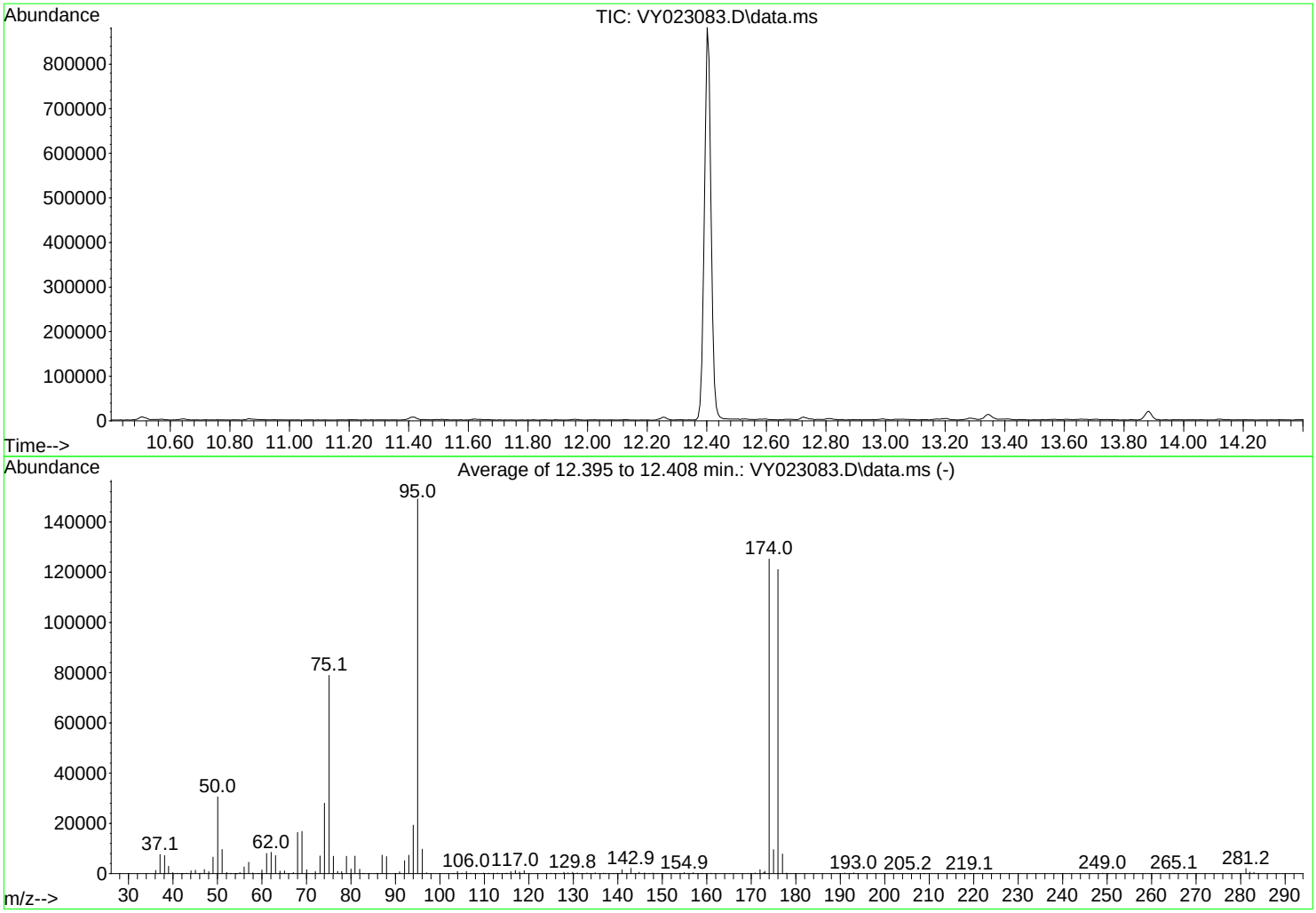
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	39163	PASS
75	95	30	60	53.4	102800	PASS
95	95	100	100	100.0	192597	PASS
96	95	5	9	6.4	12401	PASS
173	174	0.00	2	1.0	1625	PASS
174	95	50	100	82.2	158224	PASS
175	174	5	9	7.4	11707	PASS
176	174	95	101	96.9	153344	PASS
177	176	5	9	6.4	9830	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023083.D
Acq On : 14 Aug 2025 09:48
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 1744

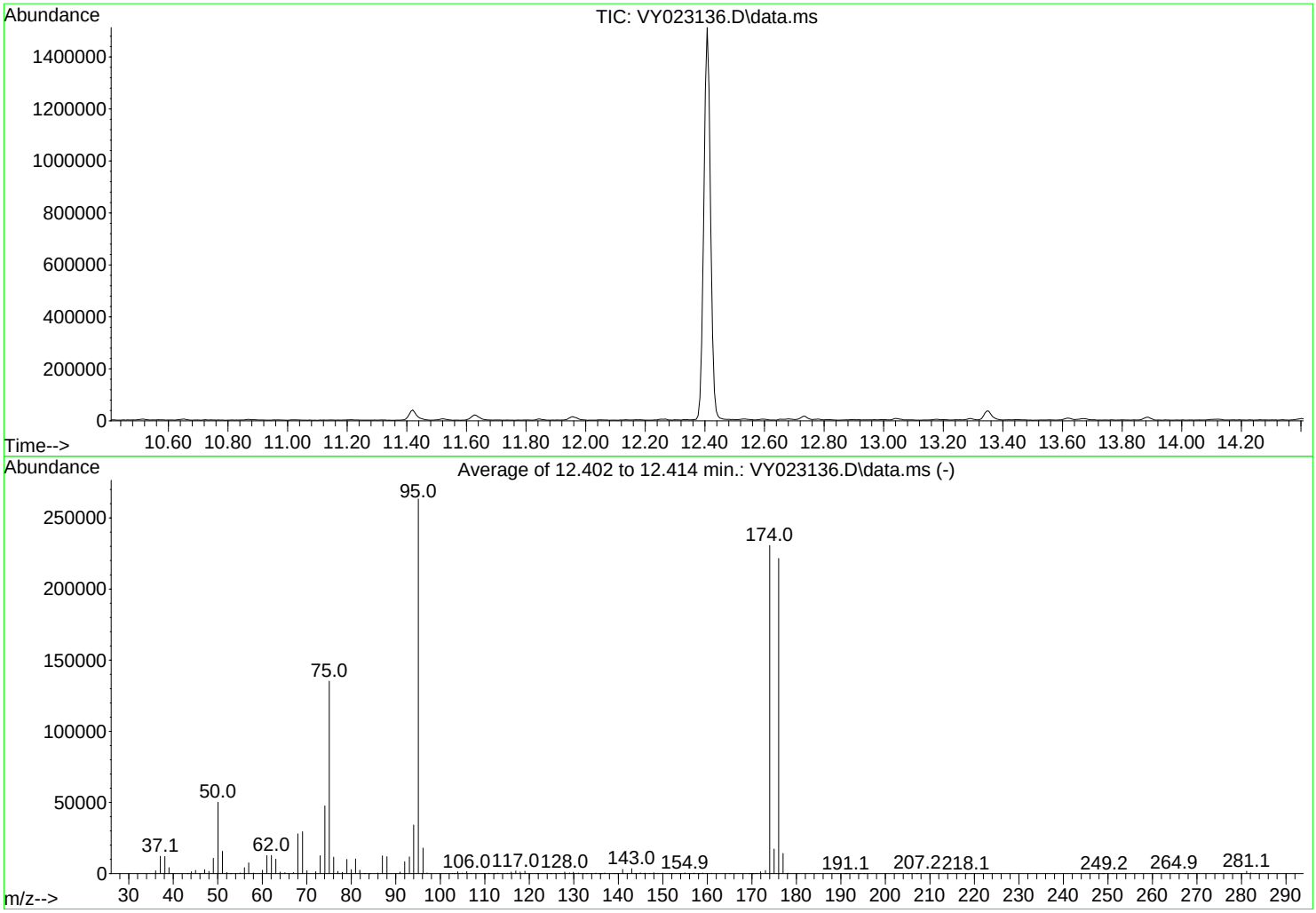
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	30528	PASS
75	95	30	60	52.9	78941	PASS
95	95	100	100	100.0	149157	PASS
96	95	5	9	6.5	9739	PASS
173	174	0.00	2	0.7	935	PASS
174	95	50	100	84.0	125272	PASS
175	174	5	9	7.6	9545	PASS
176	174	95	101	96.6	121075	PASS
177	176	5	9	6.5	7816	PASS

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:	VW0811SBL01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBL01	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
VW032060.D	1	08/11/25 12:18	VW081125

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:	VW0811SBL01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBL01	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
VW032060.D	1	08/11/25 12:18	VW081125

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	52.6		71 - 136		105%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		78 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	49.1		85 - 116		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		79 - 119		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	176000	7.959				
540-36-3	1,4-Difluorobenzene	392000	8.849				
3114-55-4	Chlorobenzene-d5	359000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	170000	13.556				

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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:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0811SBL01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBL01	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
VW032060.D	1	08/11/25 12:18	VW081125

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\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Quant Time: Aug 12 04:22:47 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

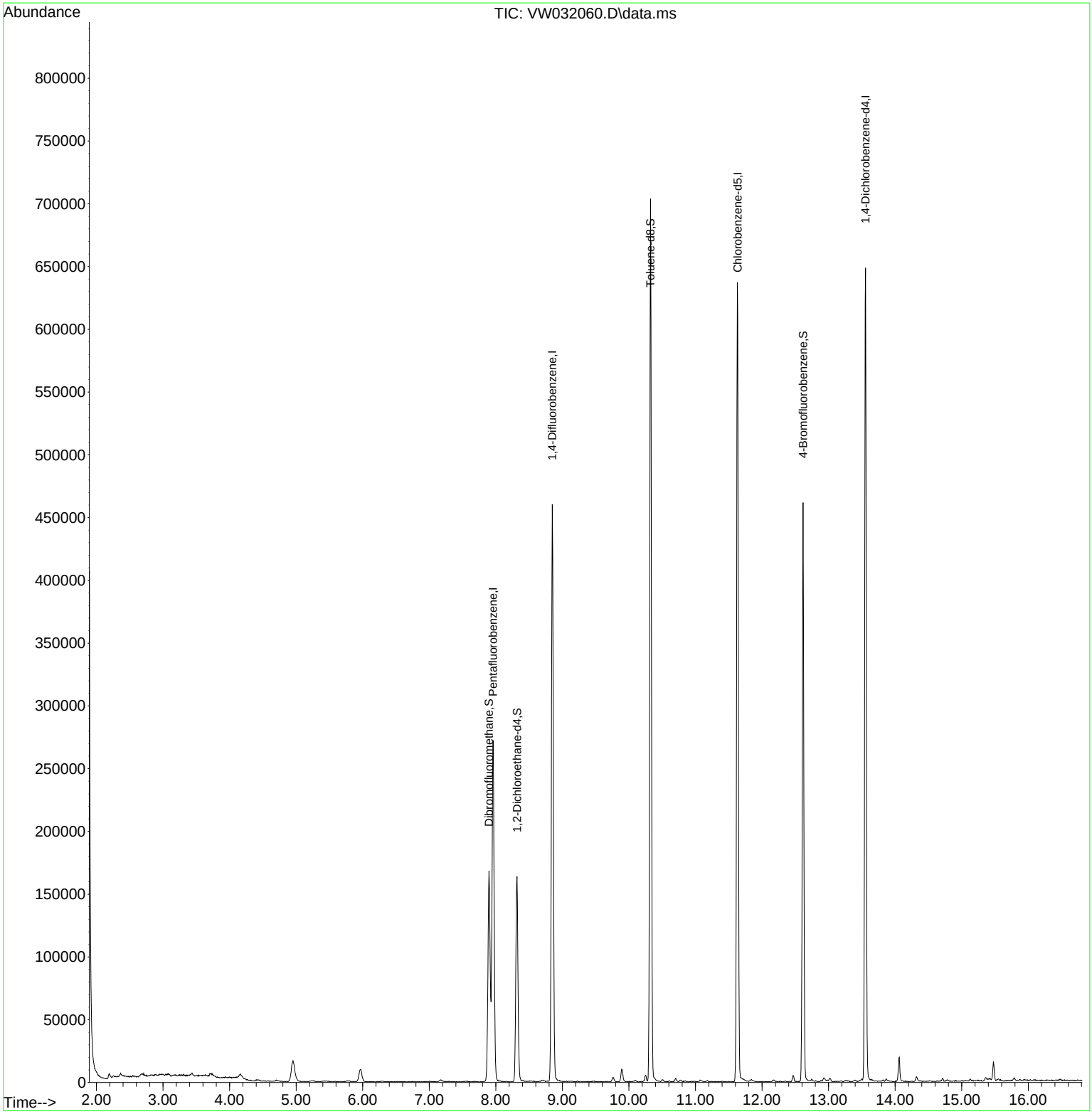
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	176404	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	391811	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	359327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	169733	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	134172	52.590	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 105.180%			
35) Dibromofluoromethane	7.898	113	121027	47.813	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 95.620%			
50) Toluene-d8	10.325	98	459644	49.095	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 98.180%			
62) 4-Bromofluorobenzene	12.617	95	163583	47.413	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 94.820%			
Target Compounds						Qvalue

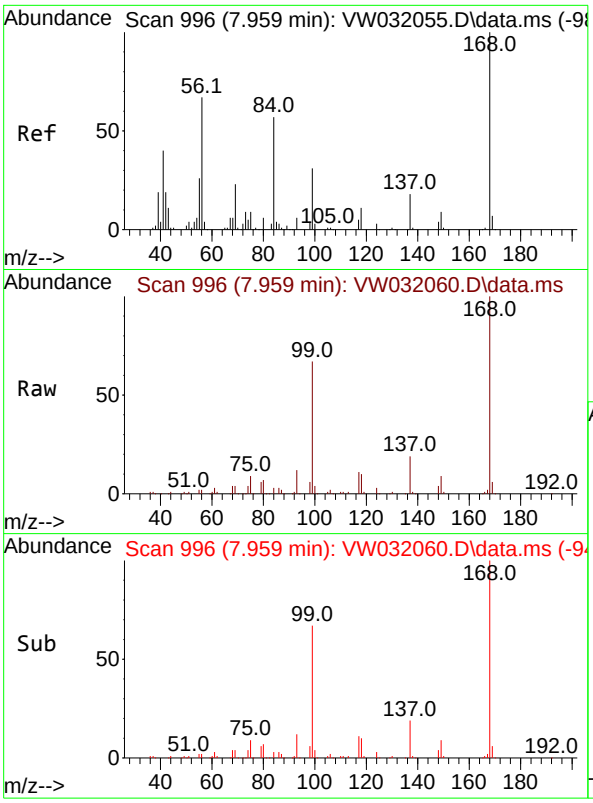
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Quant Time: Aug 12 04:22:47 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



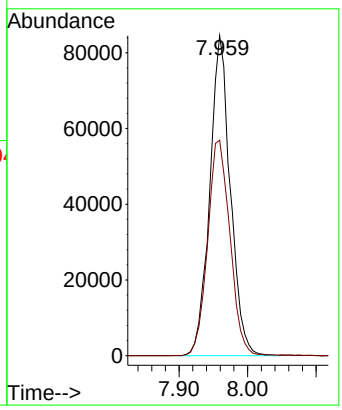


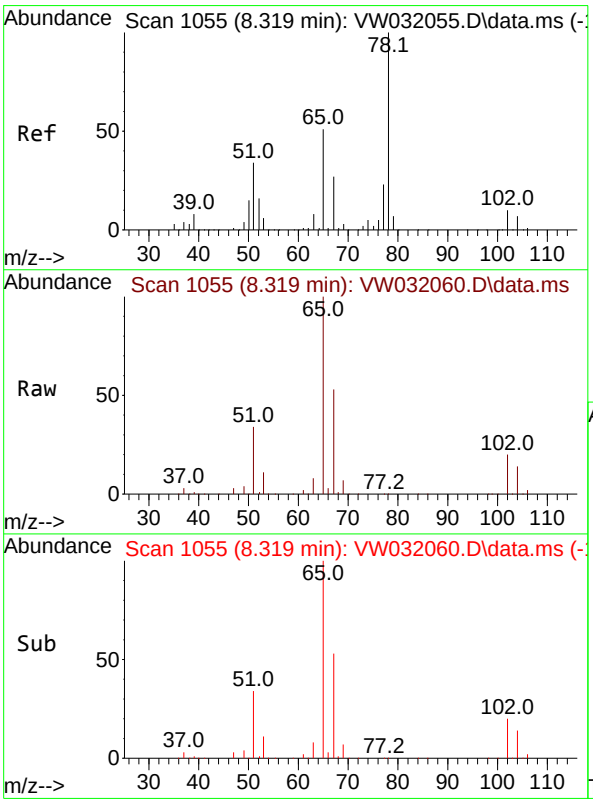
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Tgt Ion:168 Resp: 176404

Ion	Ratio	Lower	Upper
168	100		
99	67.3	56.0	84.0

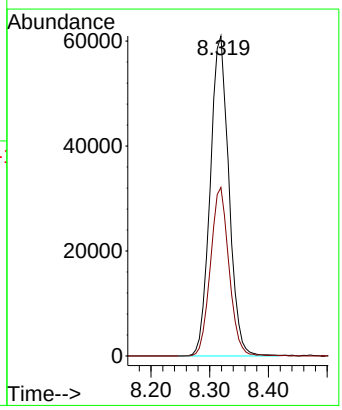


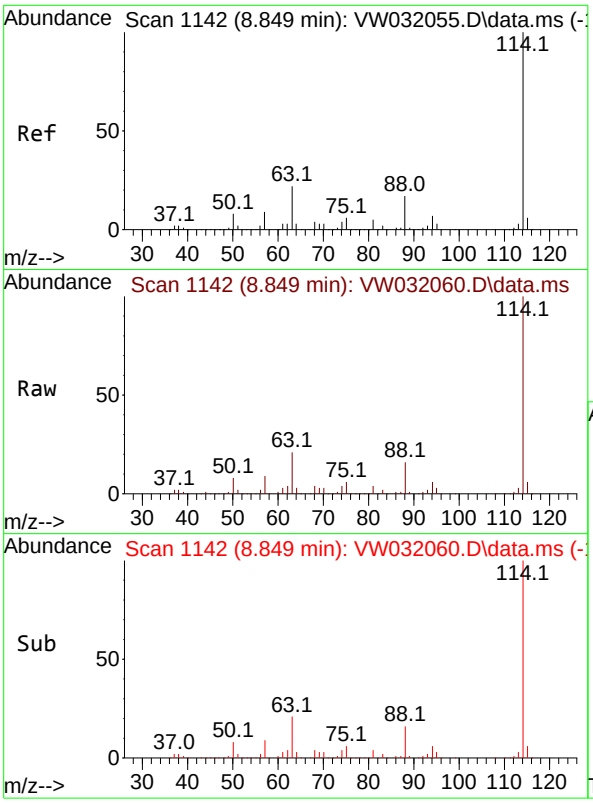


#33
1,2-Dichloroethane-d4
Concen: 52.590 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion: 65 Resp: 134172

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	102.4



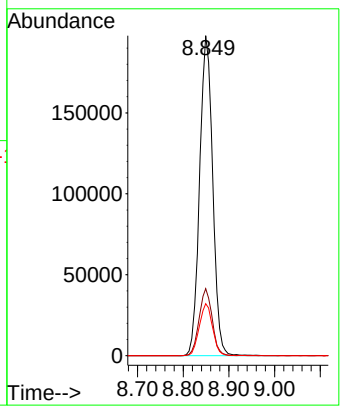


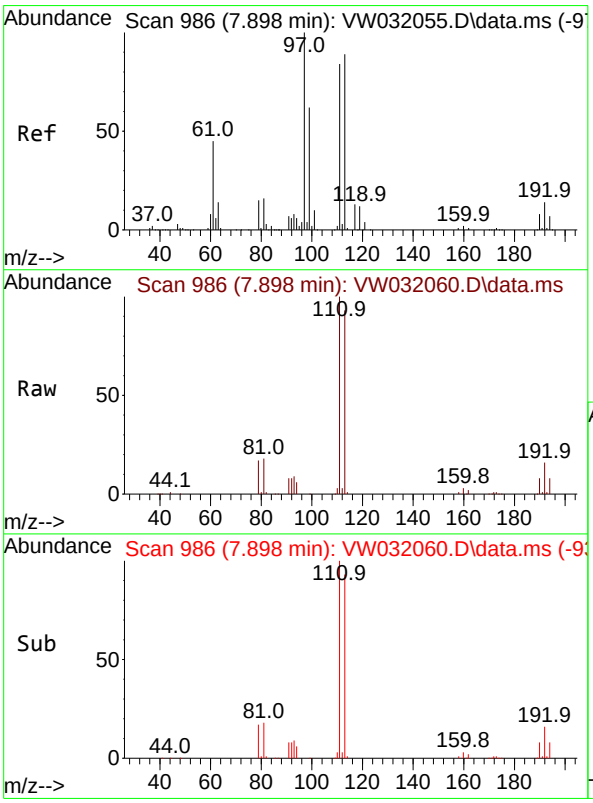
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Tgt Ion:114 Resp: 391811

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	43.0
88	16.3	0.0	33.8

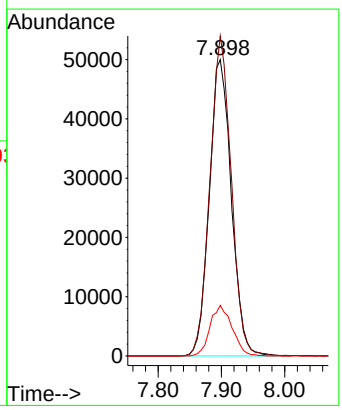


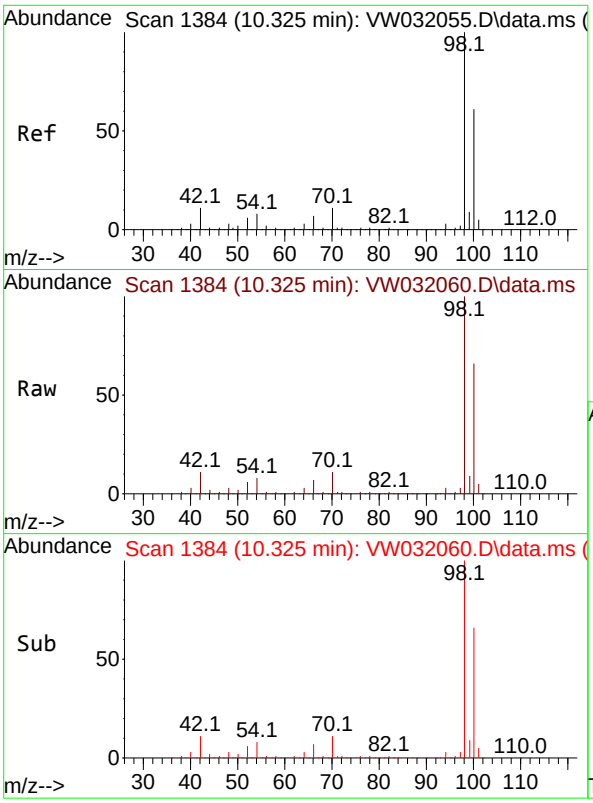


#35
Dibromofluoromethane
Concen: 47.813 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion:113 Resp: 121027

Ion	Ratio	Lower	Upper
113	100		
111	104.5	80.1	120.1
192	17.1	13.1	19.7



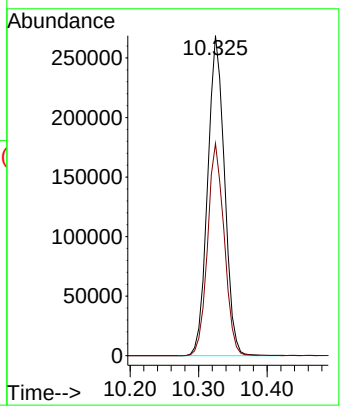


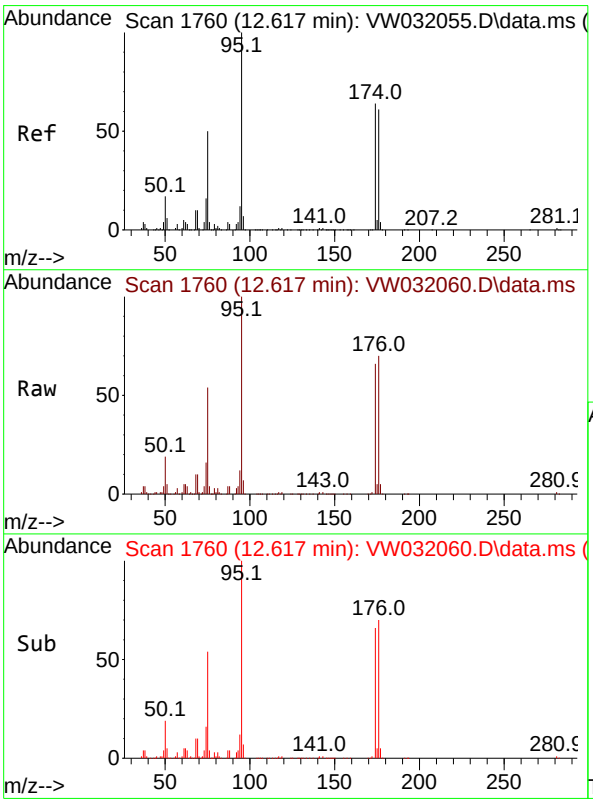
#50
Toluene-d8
Concen: 49.095 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Tgt Ion: 98 Resp: 459644

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.1	76.7

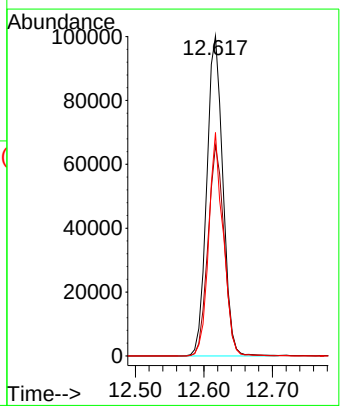


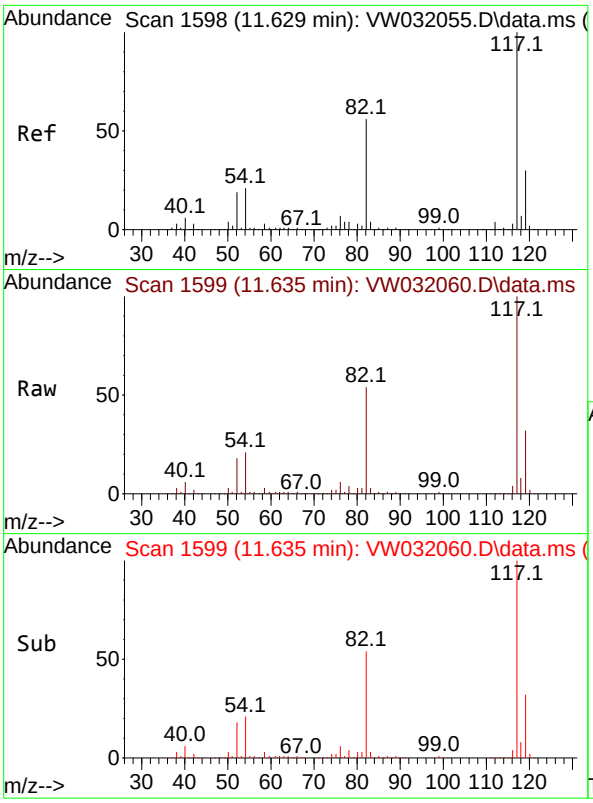


#62
4-Bromofluorobenzene
Concen: 47.413 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion: 95 Resp: 163583

Ion	Ratio	Lower	Upper
95	100		
174	66.1	0.0	129.0
176	62.9	0.0	124.6



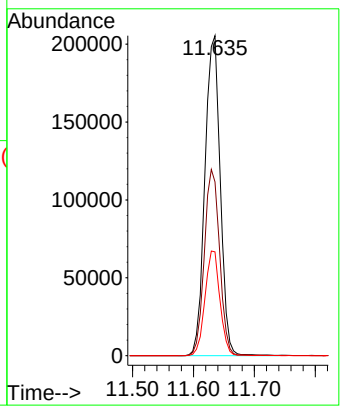


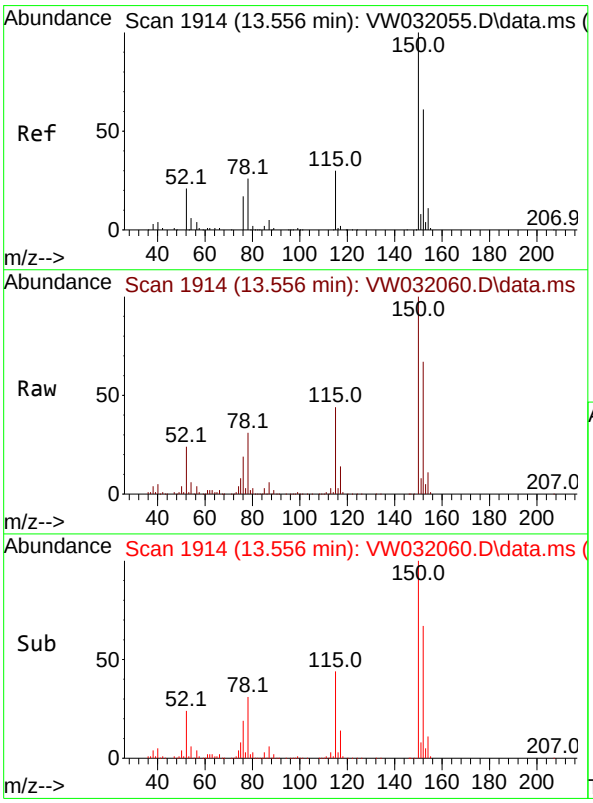
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

Tgt Ion:117 Resp: 359327

Ion	Ratio	Lower	Upper
117	100		
82	54.3	45.0	67.4
119	32.5	24.2	36.4

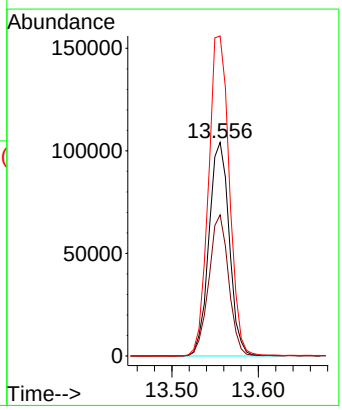




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion:152 Resp: 169733

Ion	Ratio	Lower	Upper
152	100		
115	64.8	32.6	97.8
150	154.1	0.0	359.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

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: VW032060.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	490	503	518	rBV2	16589	63163	5.21%	0.961%
2	5.972	659	670	681	rVB2	9721	31421	2.59%	0.478%
3	7.898	976	986	991	rBV	167472	401435	33.08%	6.106%
4	7.959	991	996	1010	rVB	271374	586043	48.30%	8.914%
5	8.319	1045	1055	1066	rBV	163414	363364	29.95%	5.527%
6	8.849	1133	1142	1159	rBV	459336	918657	75.71%	13.974%
7	9.892	1306	1313	1323	rBV2	10139	21637	1.78%	0.329%
8	10.325	1376	1384	1404	rVB	703087	1213427	100.00%	18.457%
9	11.629	1589	1598	1606	rBV	636844	1115847	91.96%	16.973%
10	12.617	1752	1760	1772	rBV	460896	742846	61.22%	11.299%
11	13.556	1907	1914	1925	rBV	646925	1060143	87.37%	16.126%
12	14.062	1990	1997	2003	rBV2	19087	31499	2.60%	0.479%
13	15.476	2223	2229	2235	rVB	14627	24703	2.04%	0.376%

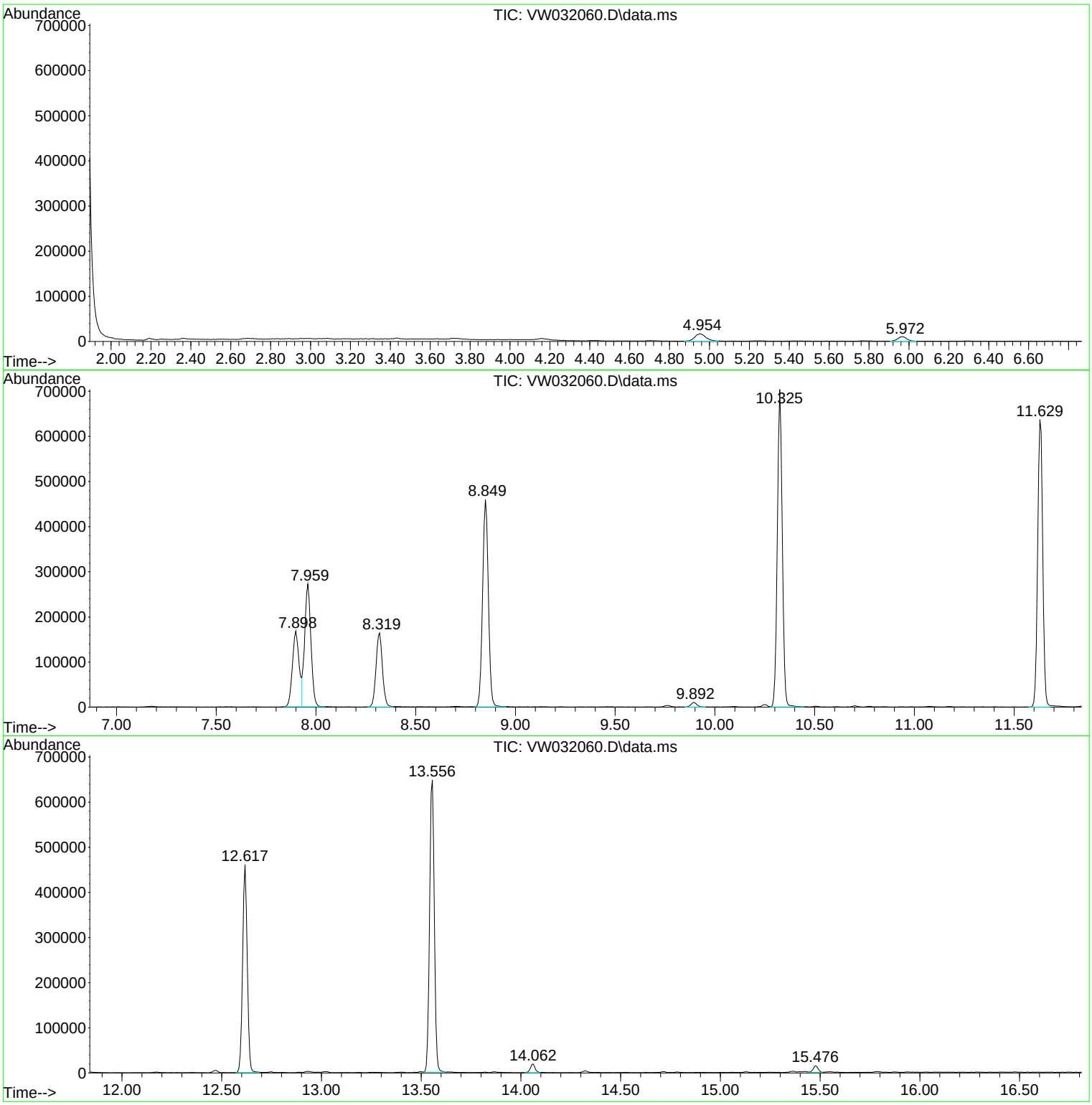
Sum of corrected areas: 6574185

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

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\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

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\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBL01

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:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0813SBL01	SDG No.:	Q2819
Lab Sample ID:	VY0813SBL01	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
VY023060.D	1	08/13/25 10:39	VY081325

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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0813SBL01	SDG No.:	Q2819
Lab Sample ID:	VY0813SBL01	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
VY023060.D	1	08/13/25 10:39	VY081325

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	57.2		71 - 136		114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	47.4		85 - 116		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.2		79 - 119		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	553000	7.707				
540-36-3	1,4-Difluorobenzene	1080000	8.609				
3114-55-4	Chlorobenzene-d5	906000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	385000	13.34				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0813SBL01	SDG No.:	Q2819
Lab Sample ID:	VY0813SBL01	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
VY023060.D	1	08/13/25 10:39	VY081325

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\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

Quant Time: Aug 14 01:20:15 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

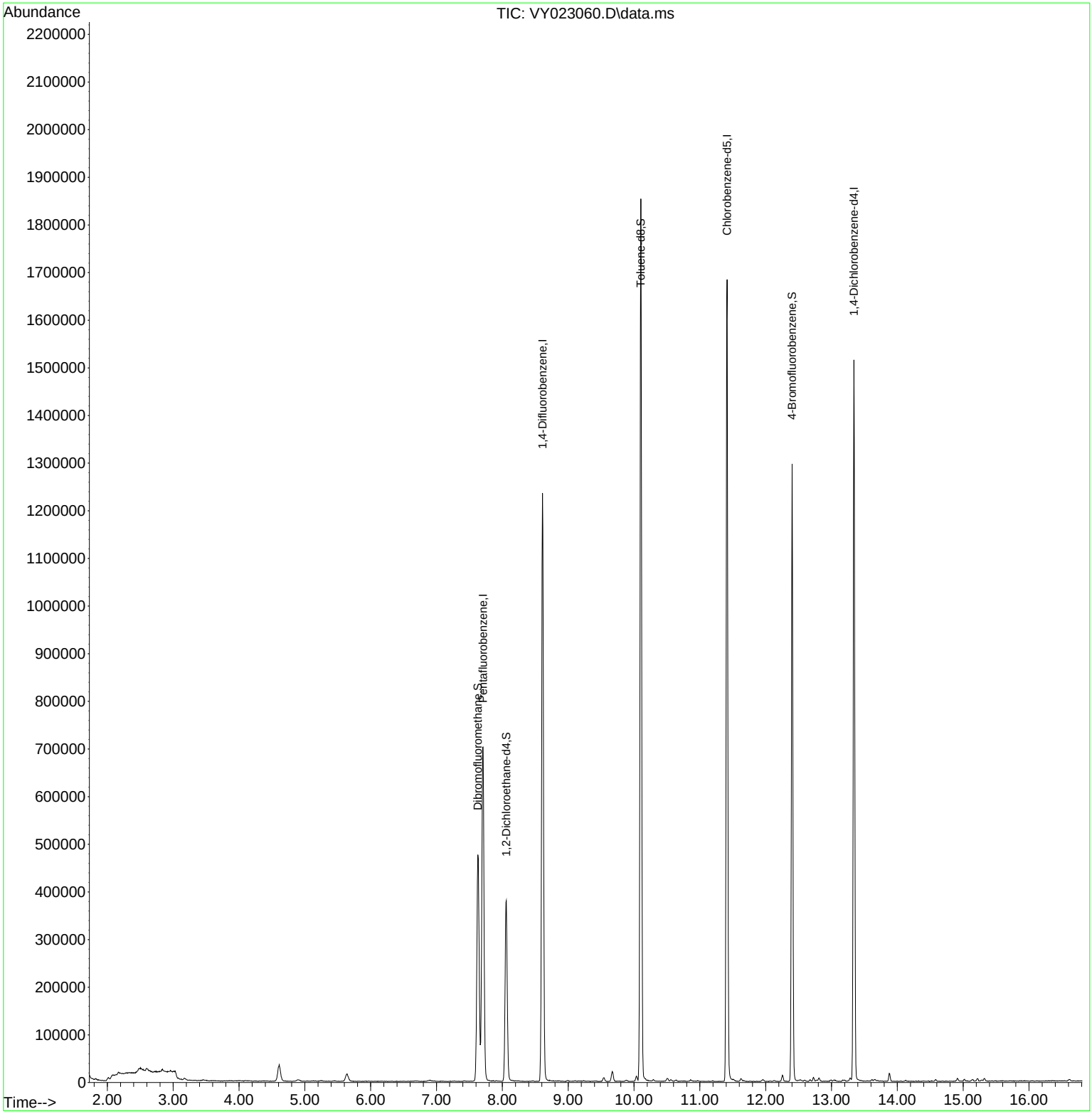
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	552605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1076478	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	906449	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	384760	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	301370	57.222	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 114.440%			
35) Dibromofluoromethane	7.628	113	344686	53.512	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.020%			
50) Toluene-d8	10.103	98	1193438	47.427	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.860%			
62) 4-Bromofluorobenzene	12.401	95	382126	47.220	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.440%			
Target Compounds						Qvalue

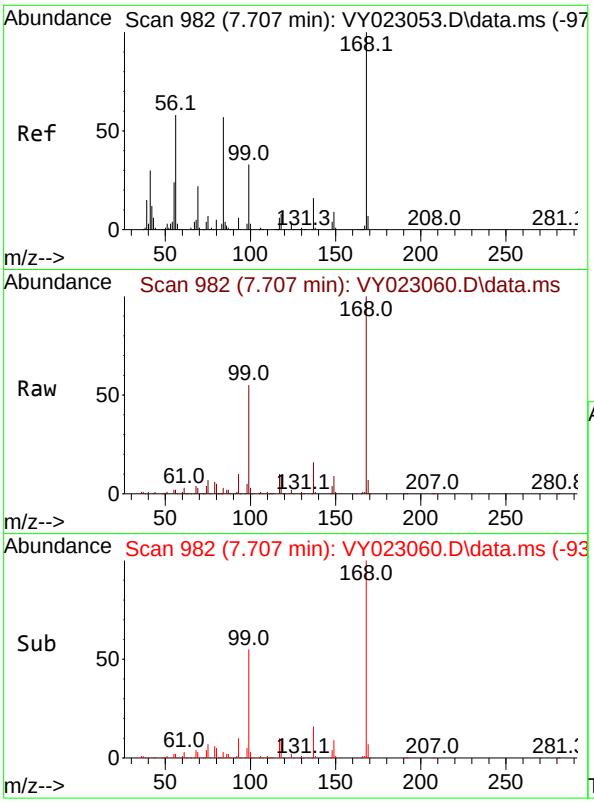
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

Quant Time: Aug 14 01:20:15 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



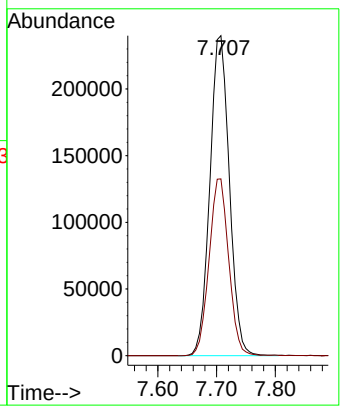


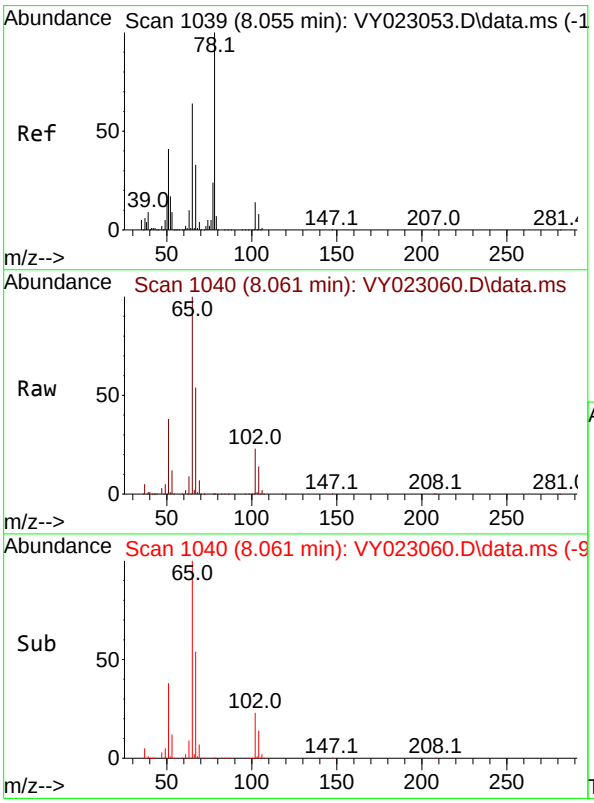
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

Tgt Ion:168 Resp: 552605

Ion	Ratio	Lower	Upper
168	100		
99	55.3	42.8	64.2

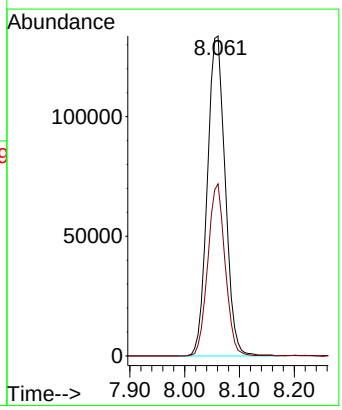


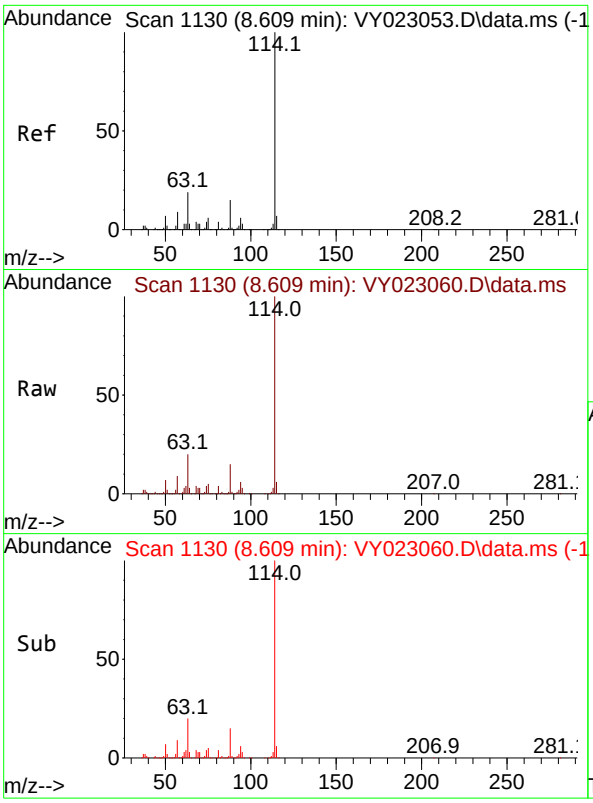


#33
1,2-Dichloroethane-d4
Concen: 57.222 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion: 65 Resp: 301370

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.8



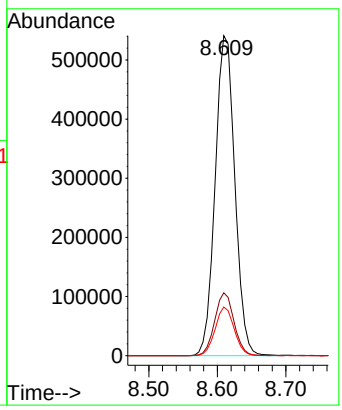


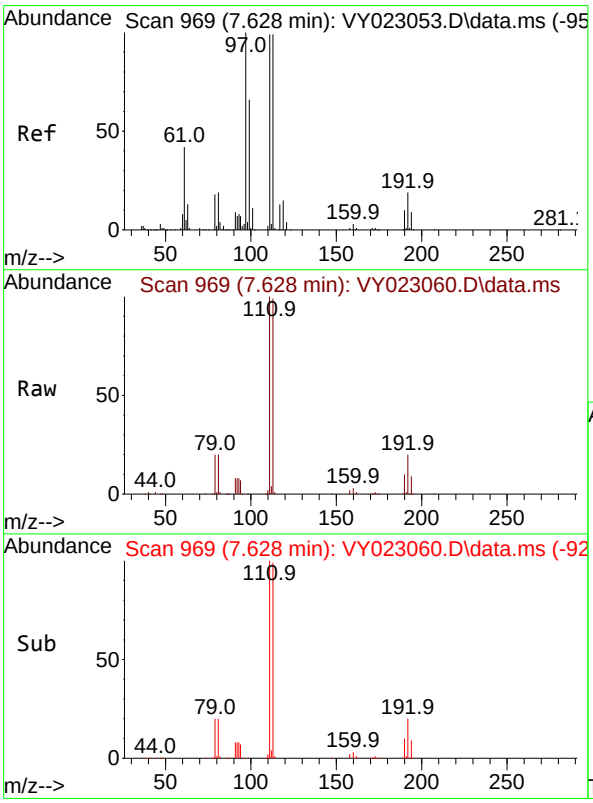
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

Tgt Ion:114 Resp: 1076478

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	38.4
88	15.2	0.0	30.0

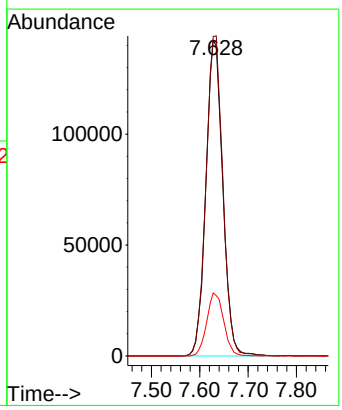


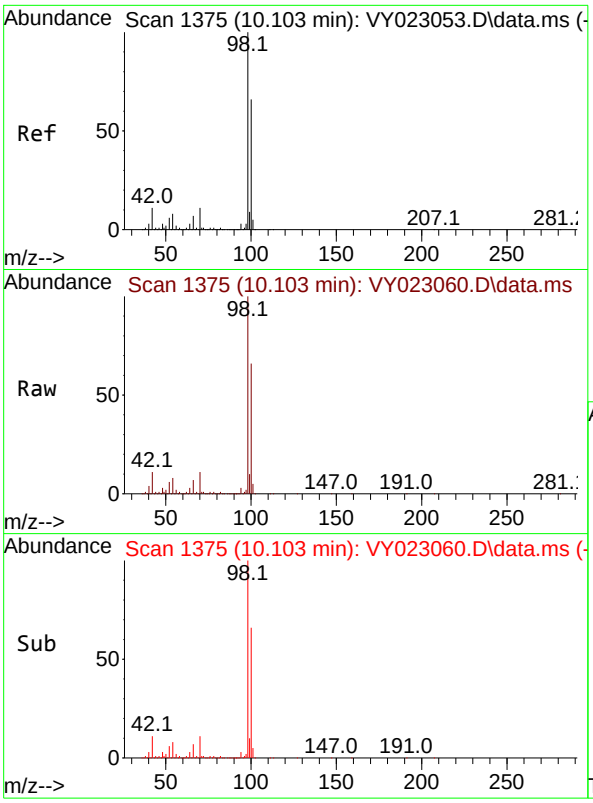


#35
Dibromofluoromethane
Concen: 53.512 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion:113 Resp: 344686

Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.1	121.7
192	20.1	16.2	24.4



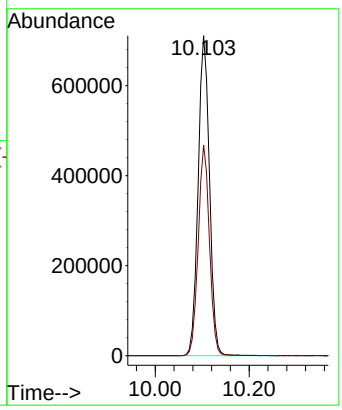


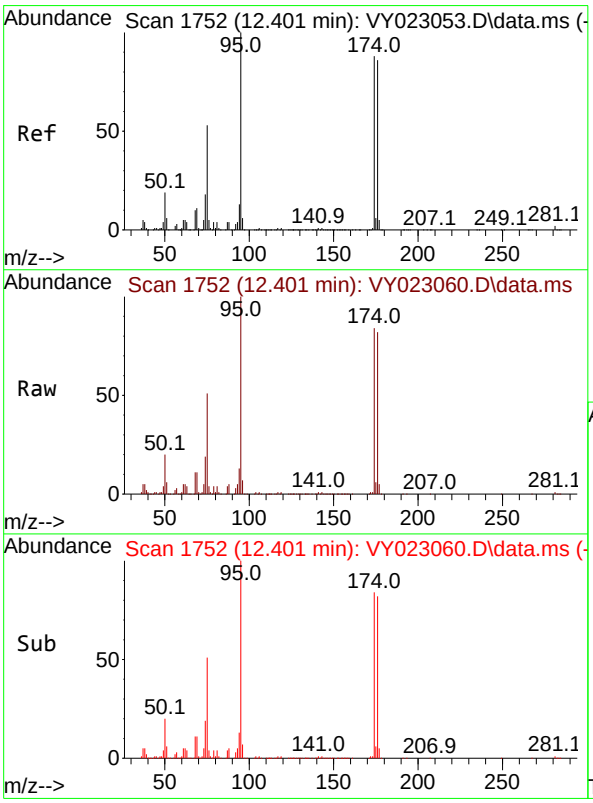
#50
Toluene-d8
Concen: 47.427 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

Tgt Ion: 98 Resp: 1193438

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5

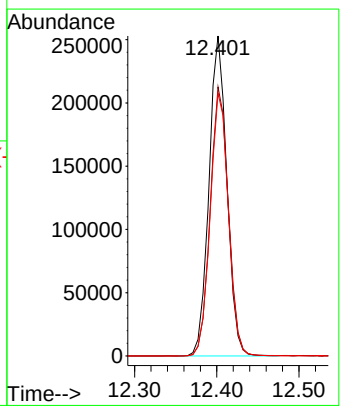


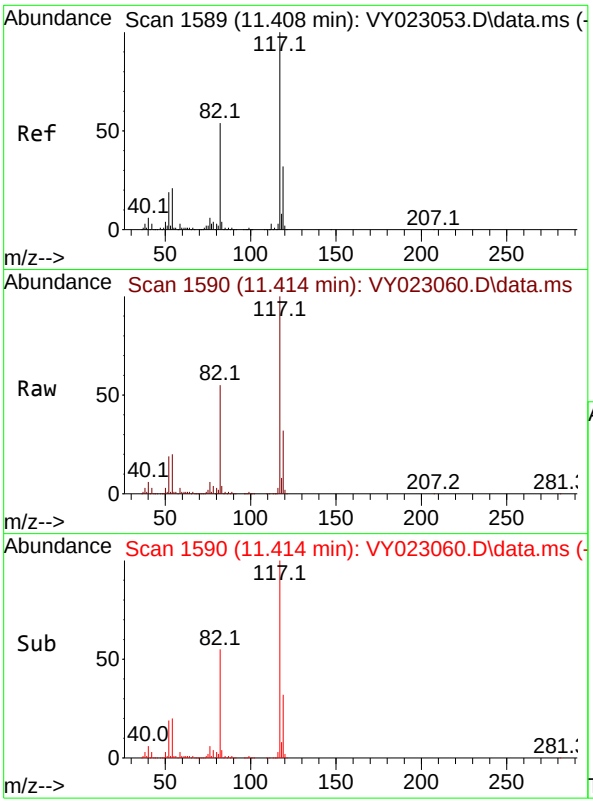


#62
4-Bromofluorobenzene
Concen: 47.220 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion: 95 Resp: 382126

Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	171.6
176	83.5	0.0	167.6



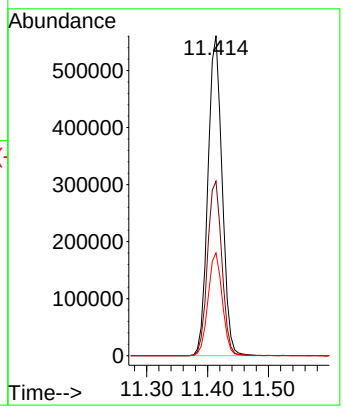


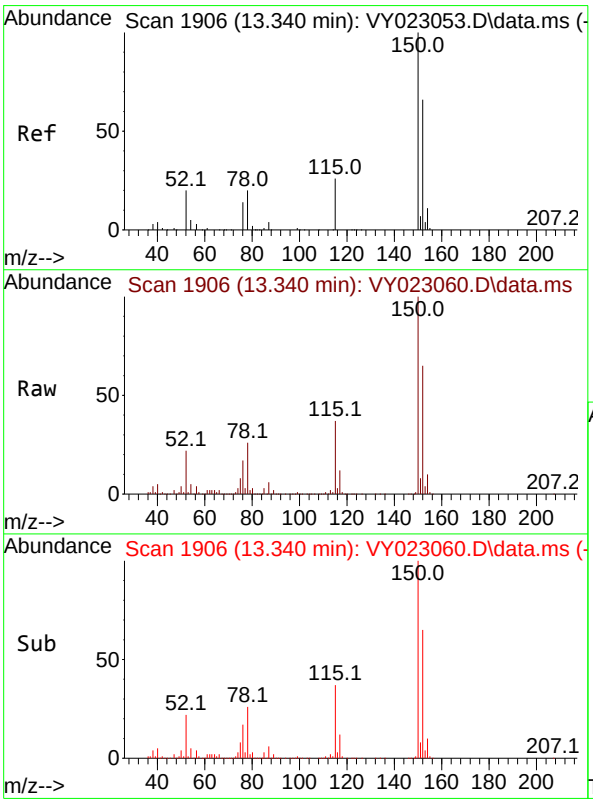
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

Tgt Ion:117 Resp: 906449

Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.0
119	32.1	25.6	38.4

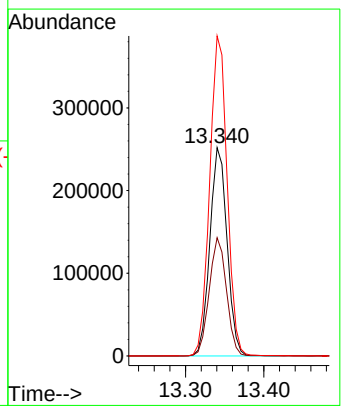




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion:152 Resp: 384760

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.2	84.6
150	154.9	0.0	348.0



Sample Results: **VY023060.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

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: VY023060.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.610	460	474	487	rBV2	34580	104742	3.37%	0.636%
2	5.640	635	643	656	rVB3	15405	46628	1.50%	0.283%
3	7.628	956	969	975	rBV	475389	1140030	36.69%	6.919%
4	7.707	975	982	993	rVB	699827	1632393	52.53%	9.907%
5	8.061	1029	1040	1053	rBV	379448	856851	27.57%	5.200%
6	8.609	1121	1130	1147	rBV	1234186	2446113	78.72%	14.846%
7	9.670	1296	1304	1310	rBV	20757	43533	1.40%	0.264%
8	10.103	1368	1375	1386	rVV	1849845	3107473	100.00%	18.859%
9	11.414	1582	1590	1601	rBV	1682767	2780366	89.47%	16.874%
10	12.401	1744	1752	1765	rBV	1295824	1999161	64.33%	12.133%
11	13.340	1899	1906	1921	rVB	1512766	2319733	74.65%	14.079%

Sum of corrected areas: 16477023

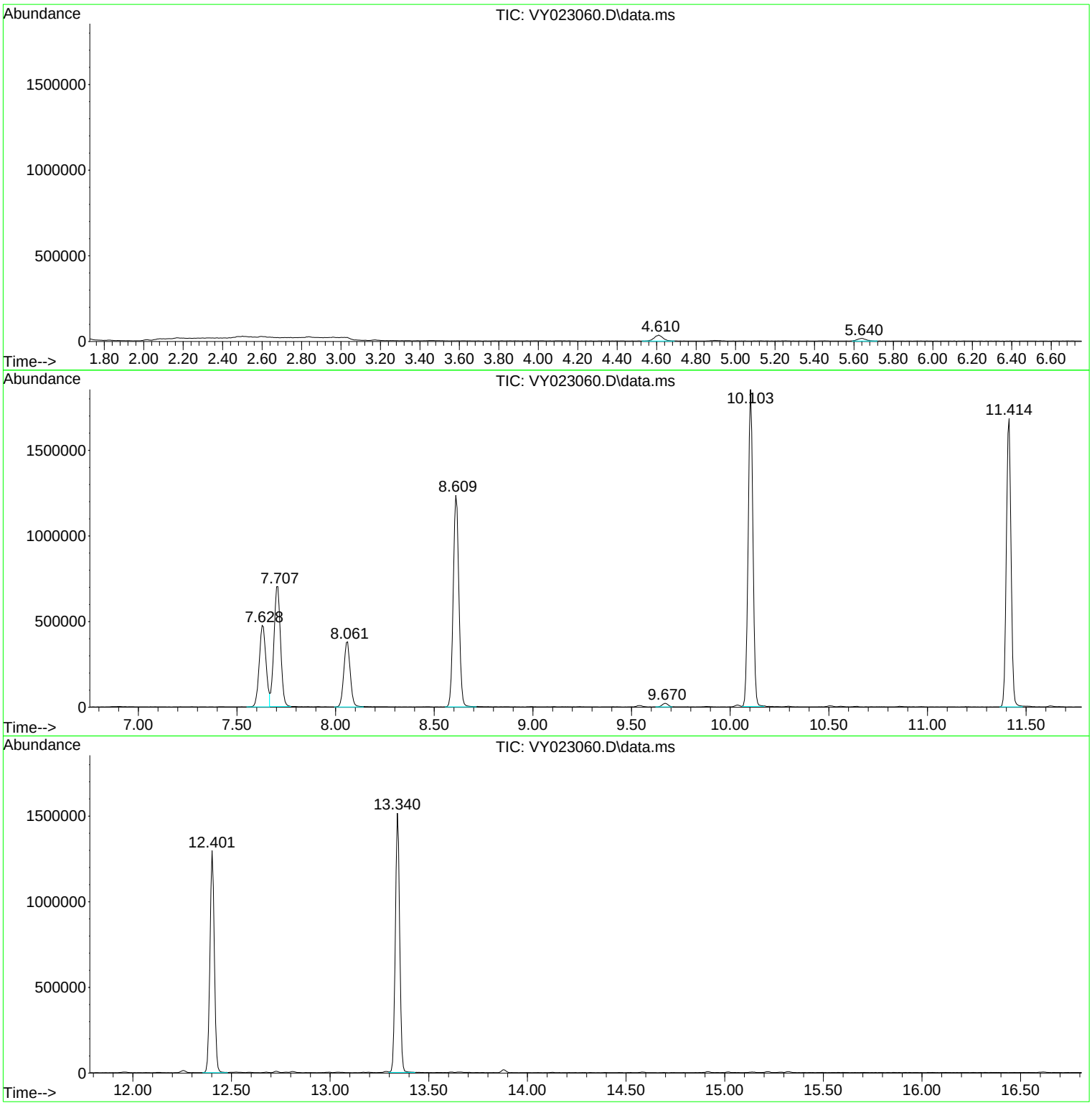
Sample Results: **VY023060.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

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\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBL01

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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0814SBL01	SDG No.:	Q2819
Lab Sample ID:	VY0814SBL01	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
VY023085.D	1	08/14/25 10:50	VY081425

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

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0814SBL01	SDG No.:	Q2819
Lab Sample ID:	VY0814SBL01	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
VY023085.D	1	08/14/25 10:50	VY081425

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	57.9		71 - 136		116%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	53.0		85 - 116		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		79 - 119		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	514000	7.707				
540-36-3	1,4-Difluorobenzene	1010000	8.616				
3114-55-4	Chlorobenzene-d5	885000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	341000	13.346				

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0814SBL01	SDG No.:	Q2819
Lab Sample ID:	VY0814SBL01	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
VY023085.D	1	08/14/25 10:50	VY081425

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\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

Quant Time: Aug 14 14:46:59 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

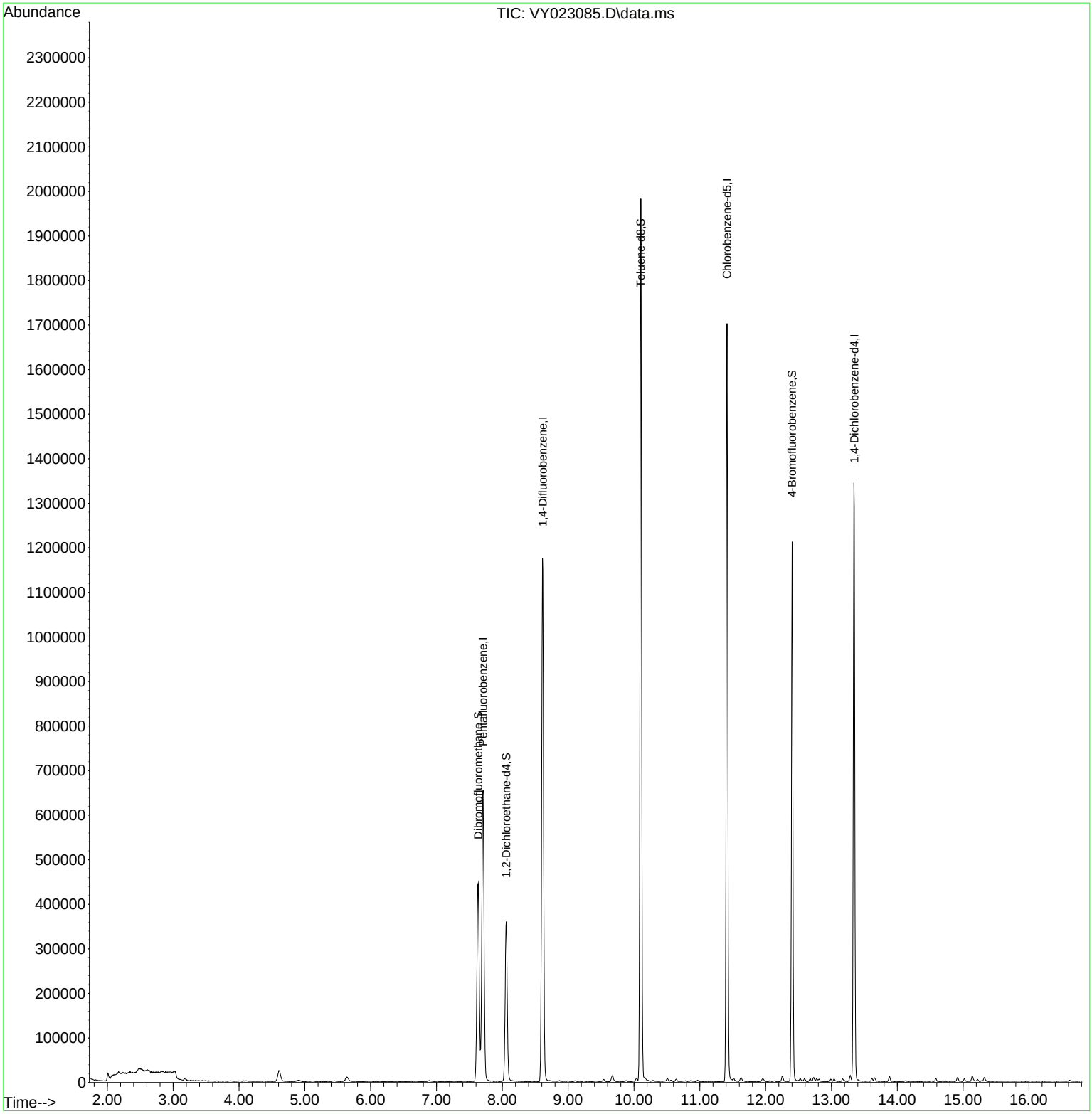
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	514218	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1013413	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	885359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	340788	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	283810	57.910	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 115.820%			
35) Dibromofluoromethane	7.634	113	324298	53.480	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 106.960%			
50) Toluene-d8	10.103	98	1256505	53.041	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 106.080%			
62) 4-Bromofluorobenzene	12.402	95	343286	45.060	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.120%			
Target Compounds						Qvalue

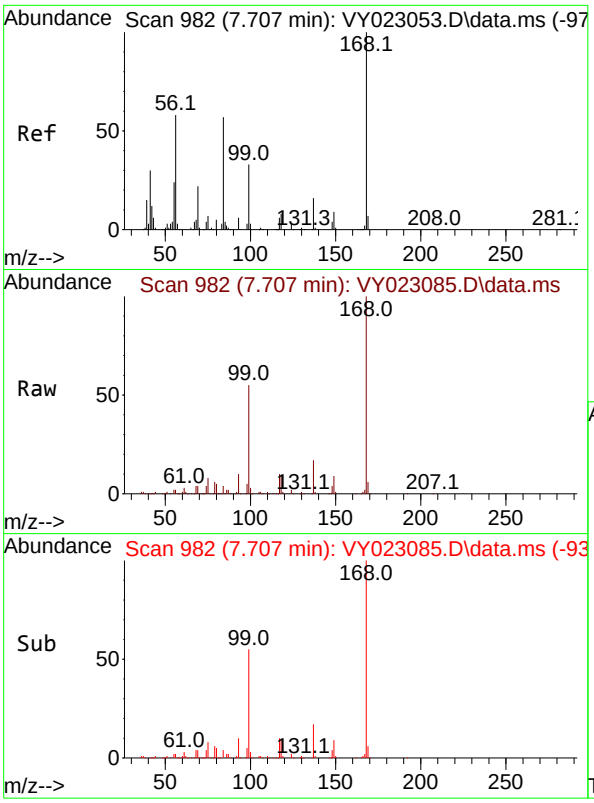
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

Quant Time: Aug 14 14:46:59 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



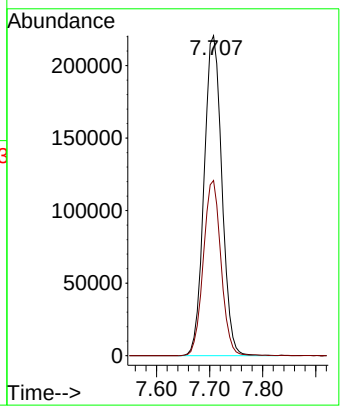


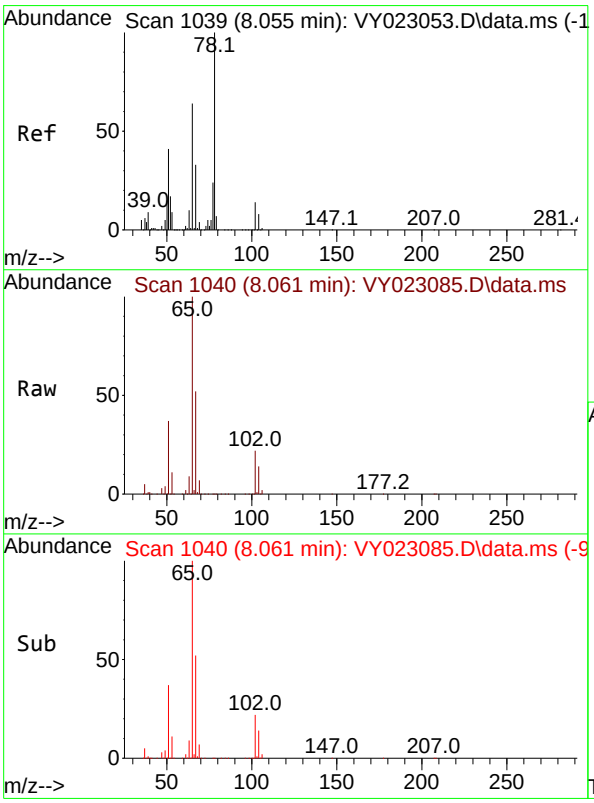
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

Tgt Ion:168 Resp: 514218

Ion	Ratio	Lower	Upper
168	100		
99	54.8	42.8	64.2

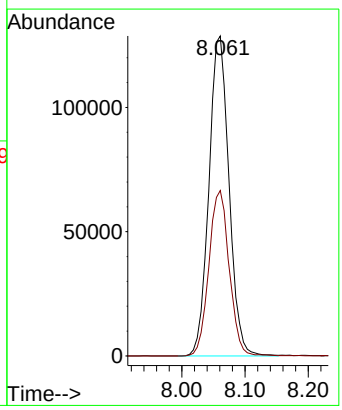


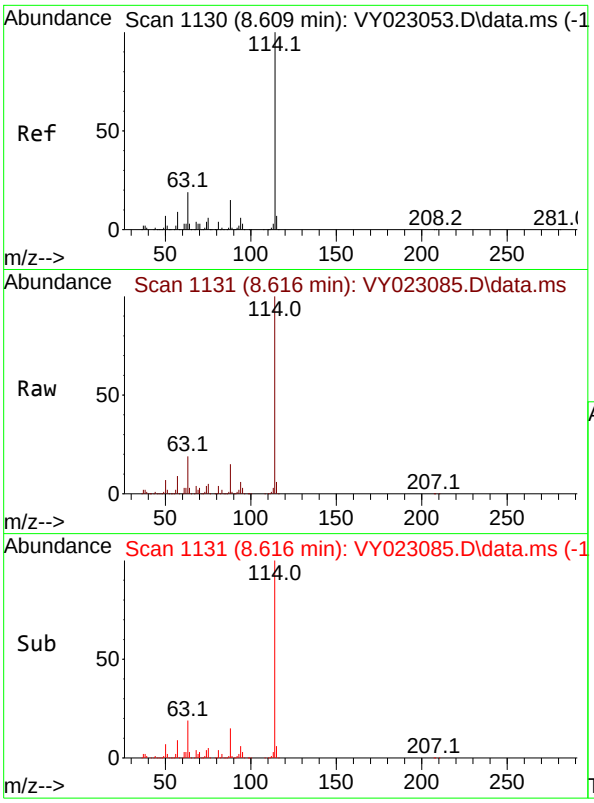


#33
1,2-Dichloroethane-d4
Concen: 57.910 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion: 65 Resp: 283810

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.8



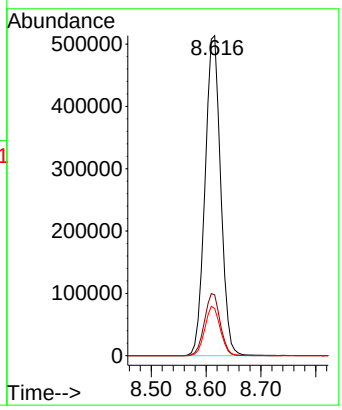


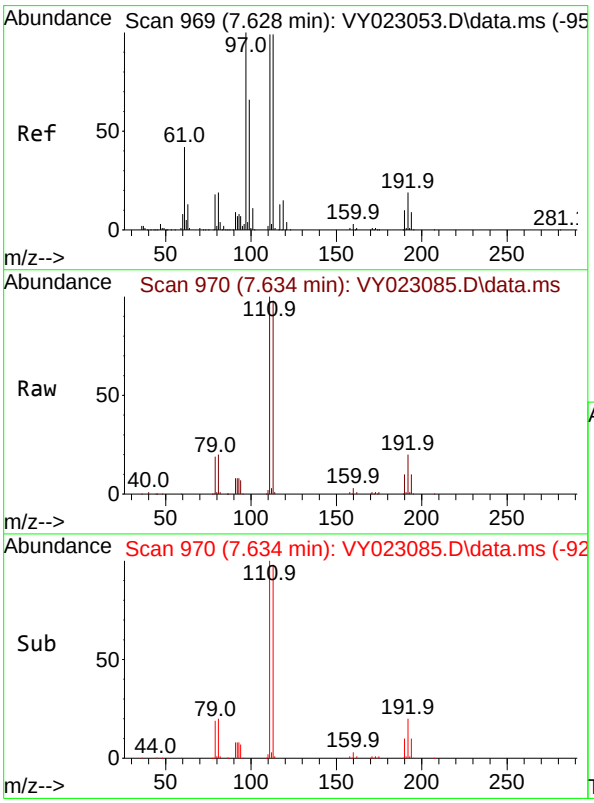
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

Tgt Ion:114 Resp: 1013413

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.4
88	14.7	0.0	30.0

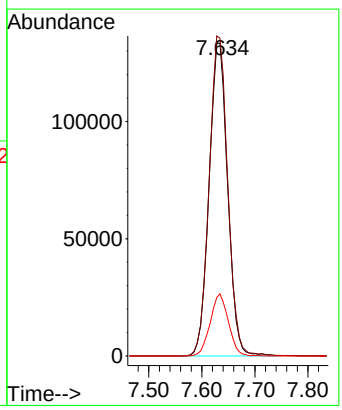


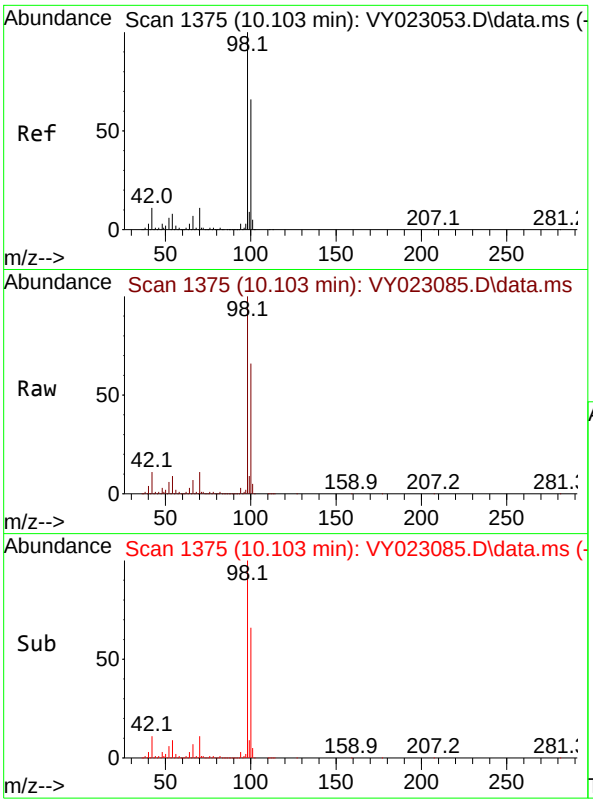


#35
Dibromofluoromethane
Concen: 53.480 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion:113 Resp: 324298

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.1	121.7
192	19.5	16.2	24.4



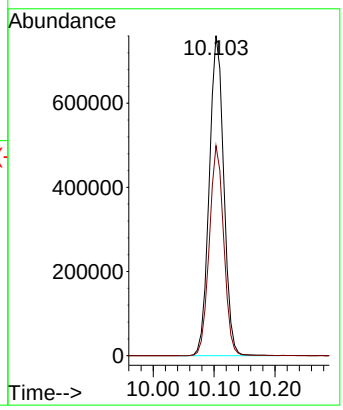


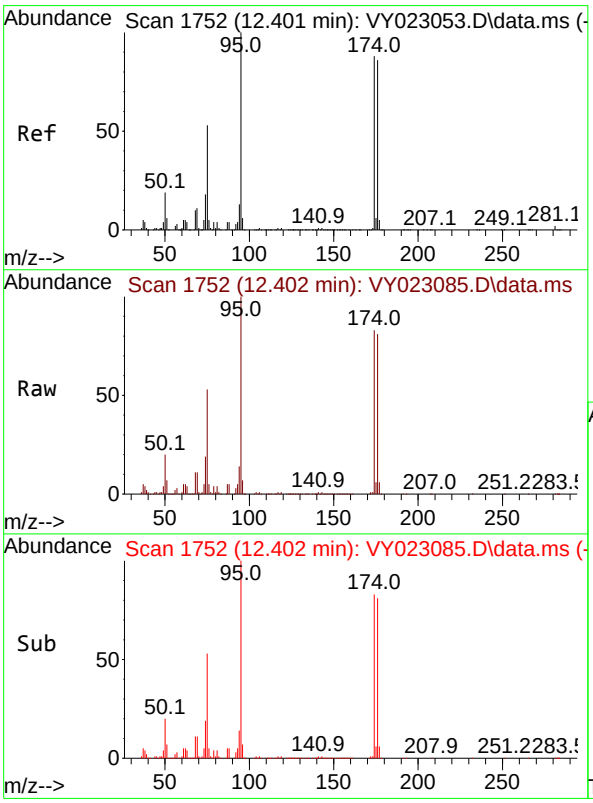
#50
Toluene-d8
Concen: 53.041 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

Tgt Ion: 98 Resp: 1256505

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5

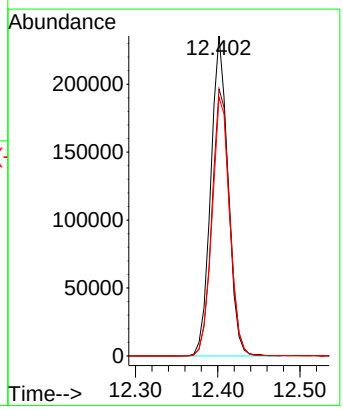


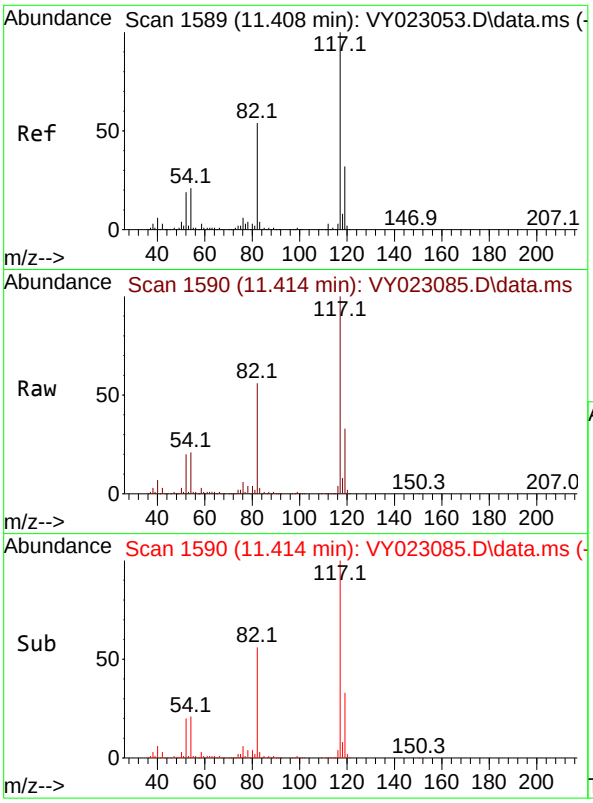


#62
4-Bromofluorobenzene
Concen: 45.060 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion: 95 Resp: 343286

Ion	Ratio	Lower	Upper
95	100		
174	86.0	0.0	171.6
176	82.4	0.0	167.6



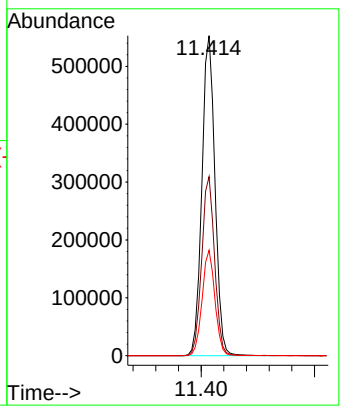


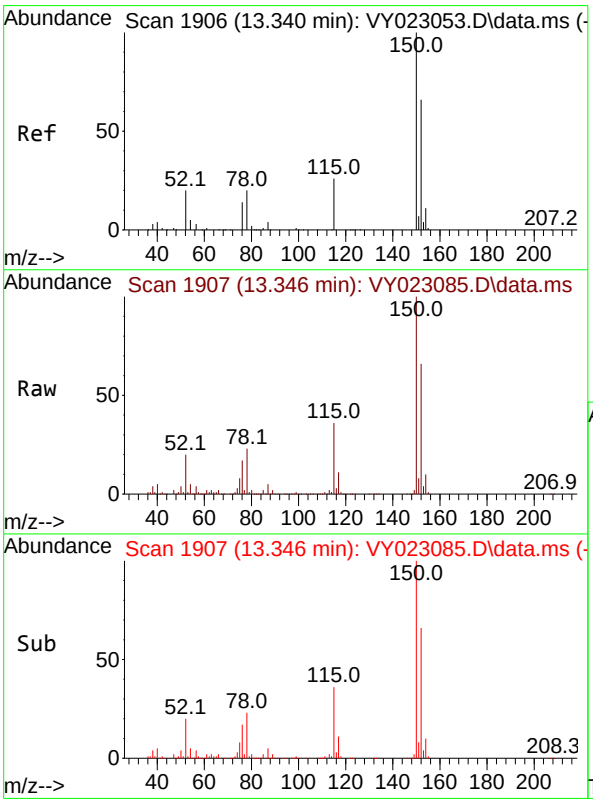
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

Tgt Ion:117 Resp: 885359

Ion	Ratio	Lower	Upper
117	100		
82	55.9	43.4	65.0
119	33.0	25.6	38.4

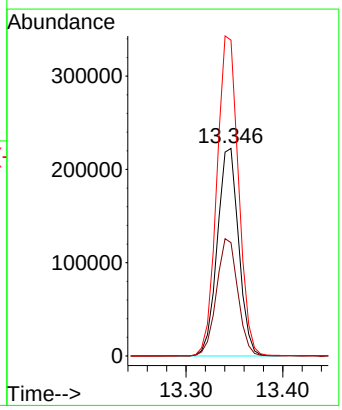




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion:152 Resp: 340788

Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.2	84.6
150	155.5	0.0	348.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

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: VY023085.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.007	40	47	53	rBV	17742	35695	1.09%	0.227%
2	4.616	465	475	490	rVB3	24109	75411	2.30%	0.480%
3	7.634	958	970	975	rBV	444498	1068603	32.61%	6.796%
4	7.707	975	982	1000	rVB	652671	1528545	46.65%	9.720%
5	8.061	1027	1040	1053	rBV	358564	805913	24.60%	5.125%
6	8.610	1122	1130	1142	rBV	1175253	2337917	71.35%	14.867%
7	10.103	1368	1375	1384	rBV	1978572	3276566	100.00%	20.837%
8	11.414	1582	1590	1603	rBV	1701540	2731421	83.36%	17.370%
9	12.402	1745	1752	1763	rBV	1210550	1800736	54.96%	11.451%
10	13.340	1900	1906	1916	rVB	1341382	2064301	63.00%	13.127%

Sum of corrected areas: 15725108

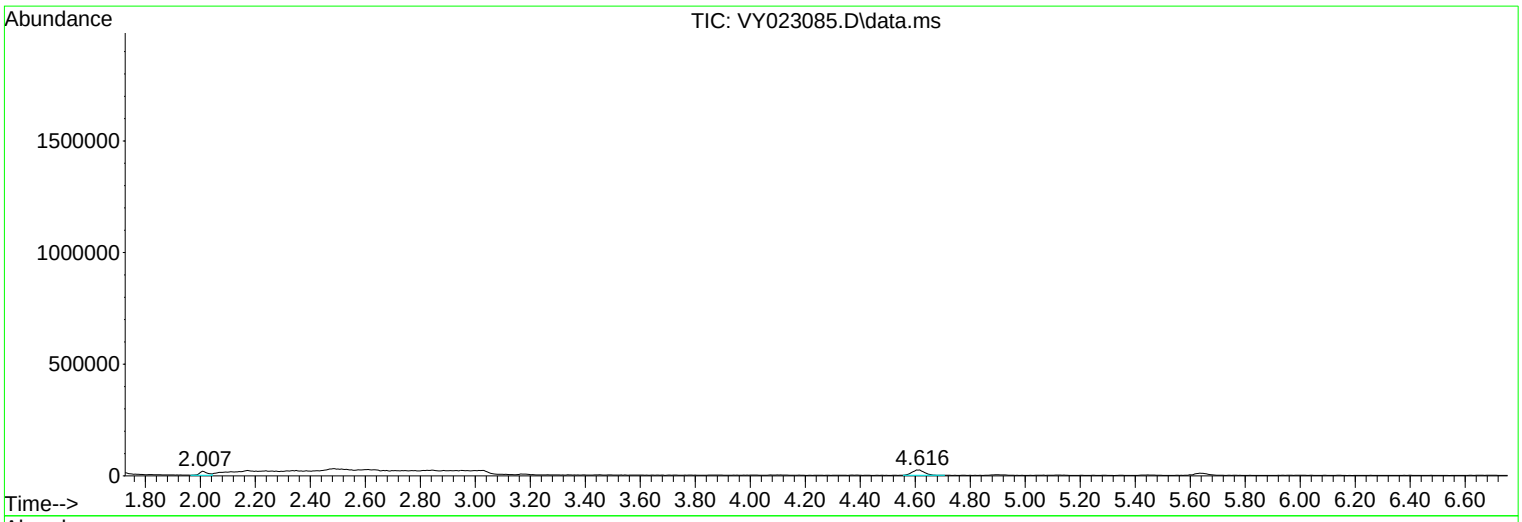
Sample Results: **VY023085.D**

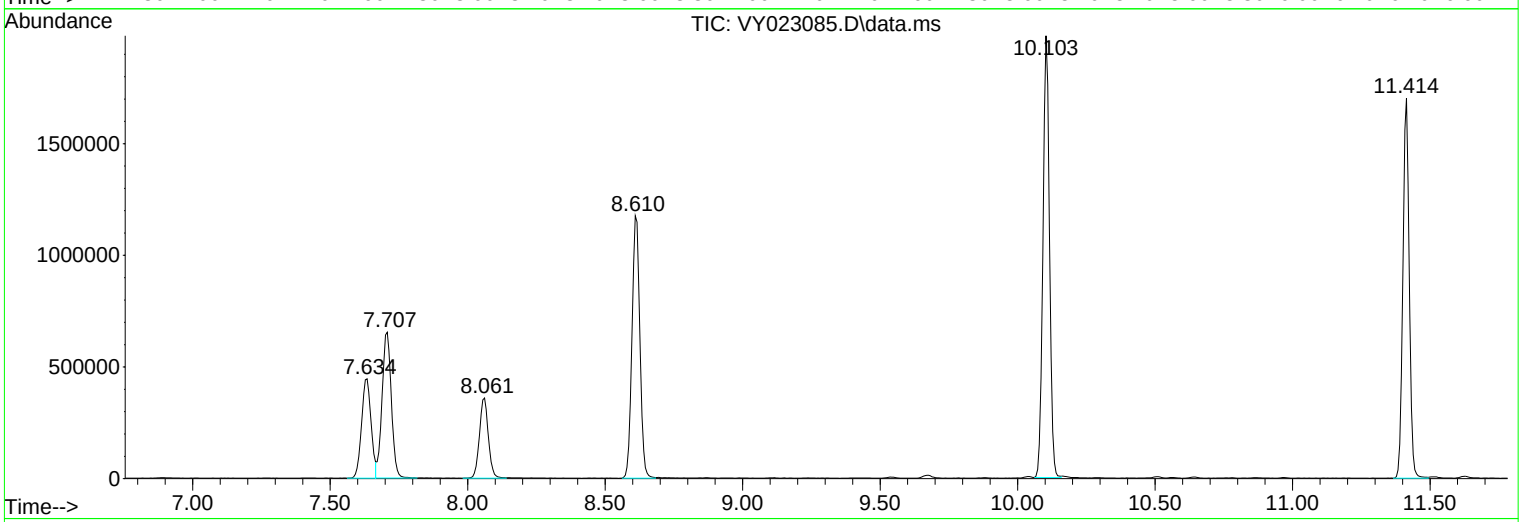
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

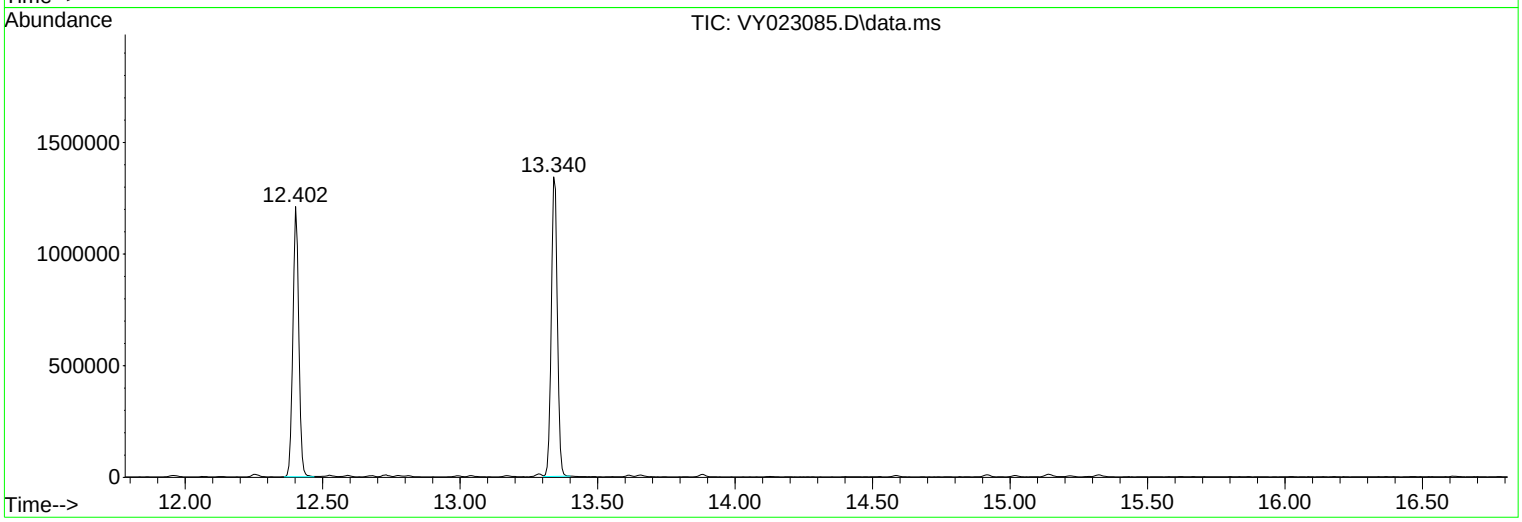
Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

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\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

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
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBL01

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:	VY0819SBL01	SDG No.:	Q2819
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

Alliance TECHNICAL GROUP
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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.:	Q2819
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				

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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.:	Q2819
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

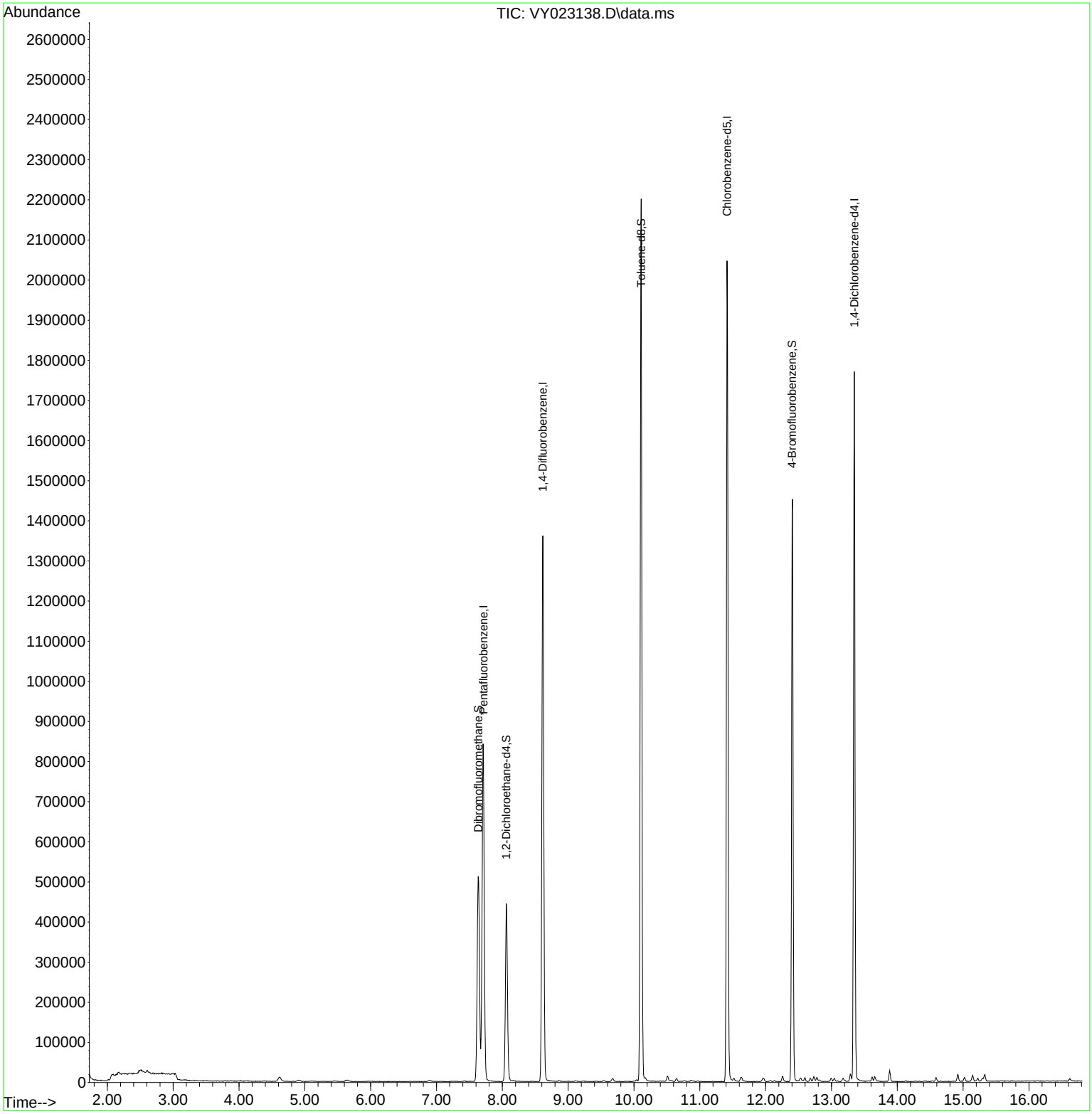
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	658468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1194271	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1104701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	444569	50.000	ug/l	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

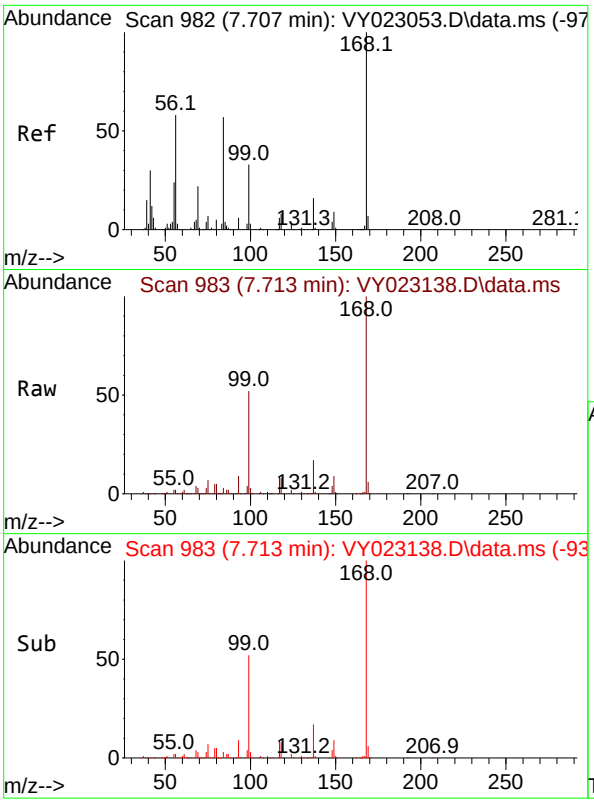
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



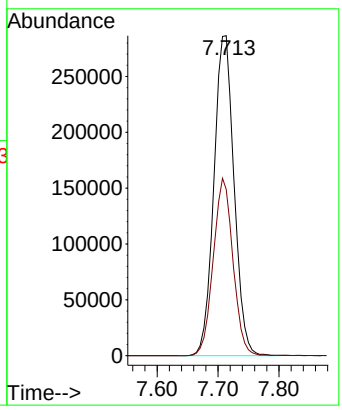


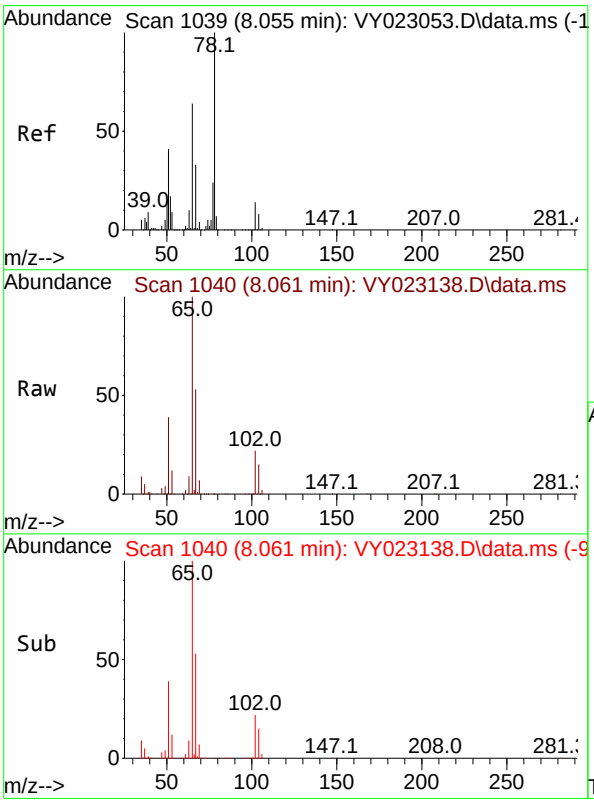
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Tgt Ion:168 Resp: 658468

Ion	Ratio	Lower	Upper
168	100		
99	52.0	42.8	64.2

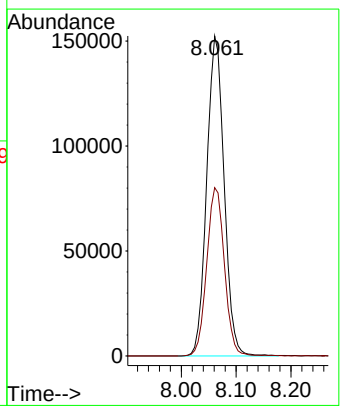


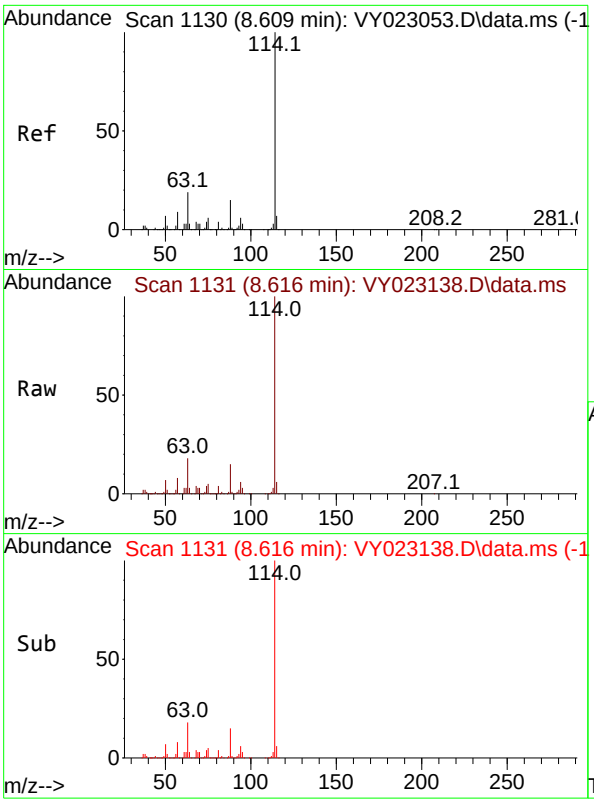


#33
1,2-Dichloroethane-d4
Concen: 53.431 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion: 65 Resp: 335313

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.8



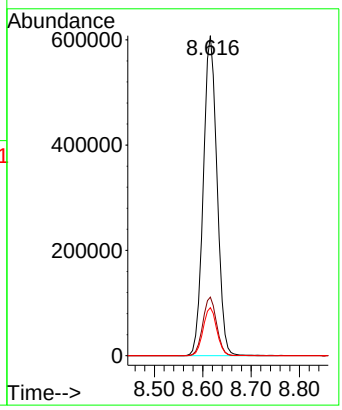


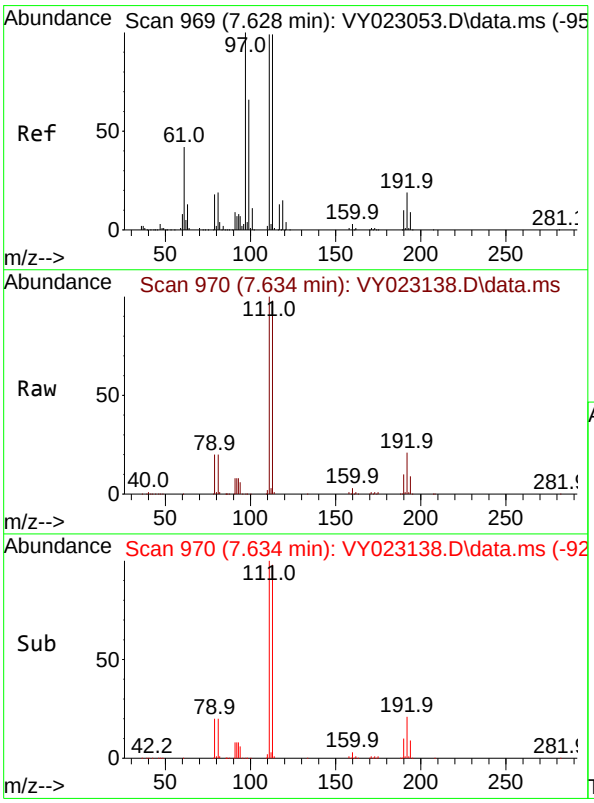
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

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

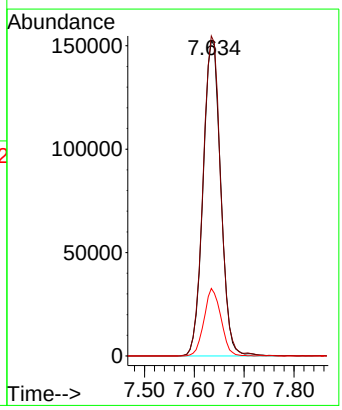


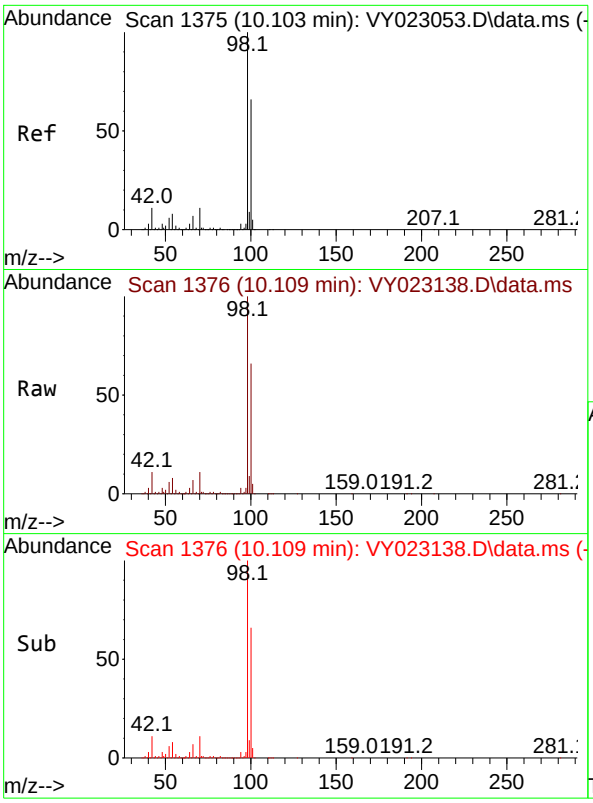


#35
Dibromofluoromethane
Concen: 52.441 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

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



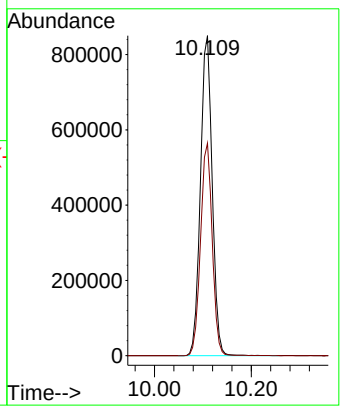


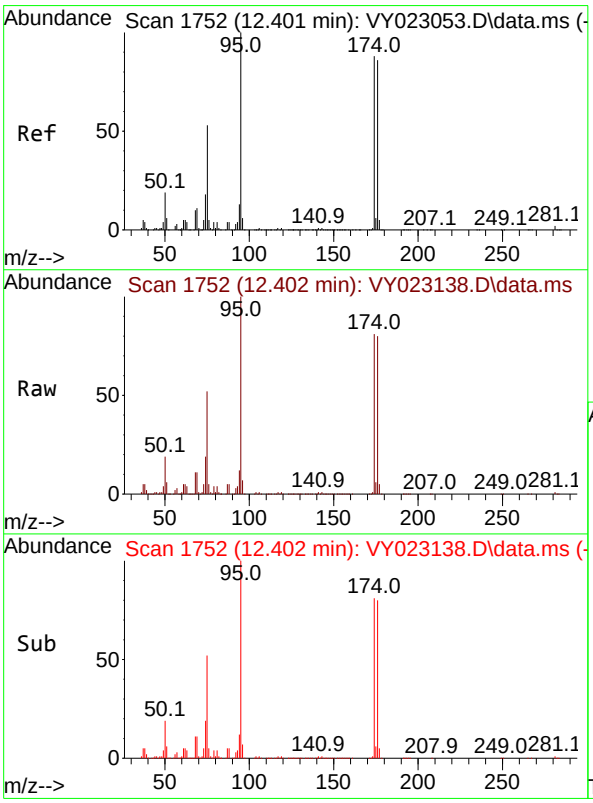
#50
Toluene-d8
Concen: 51.298 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

Tgt Ion: 98 Resp: 1432079

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.3	78.5

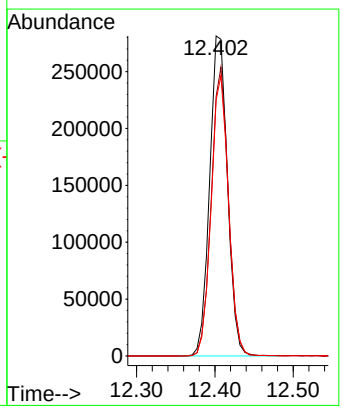


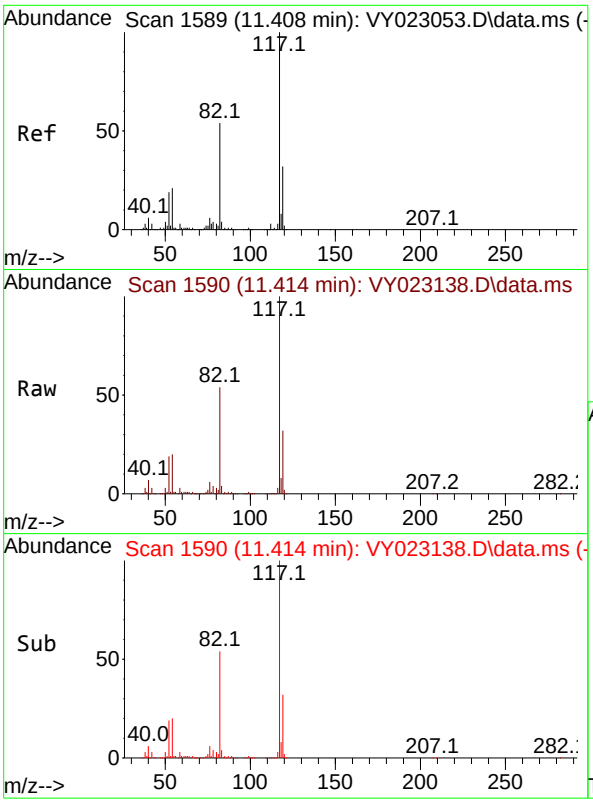


#62
4-Bromofluorobenzene
Concen: 49.470 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

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



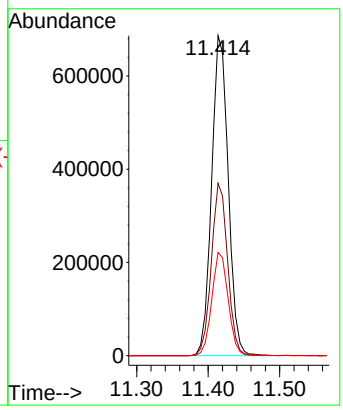


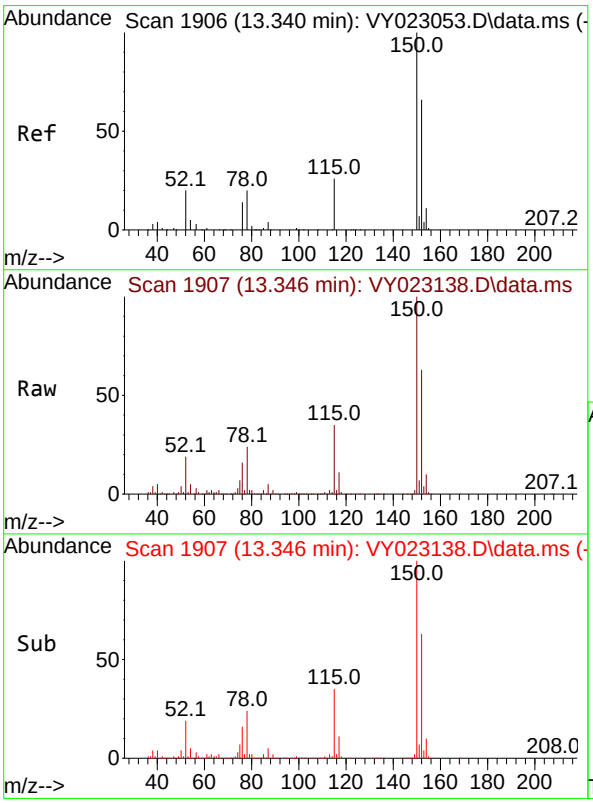
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

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

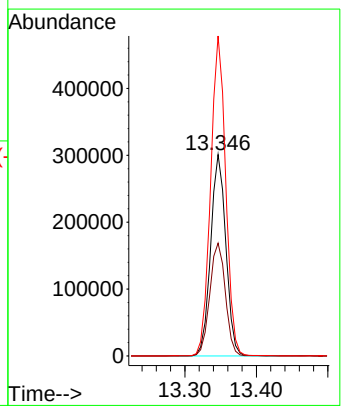




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

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	corr. % 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

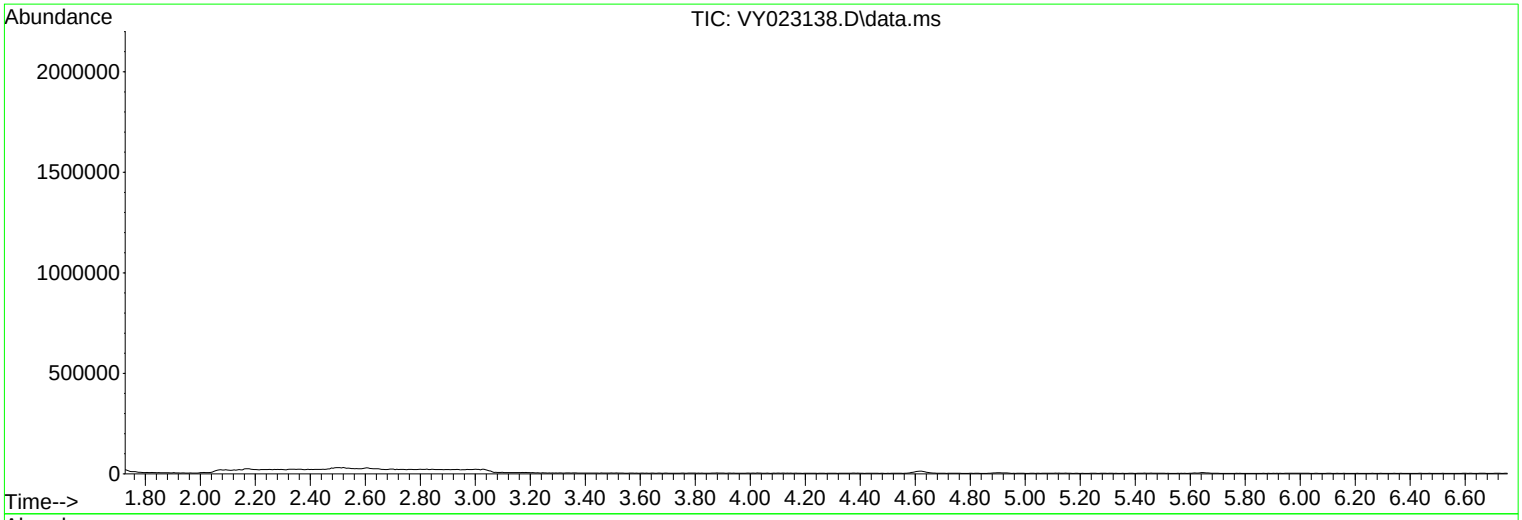
Sample Results: **VY023138.D**

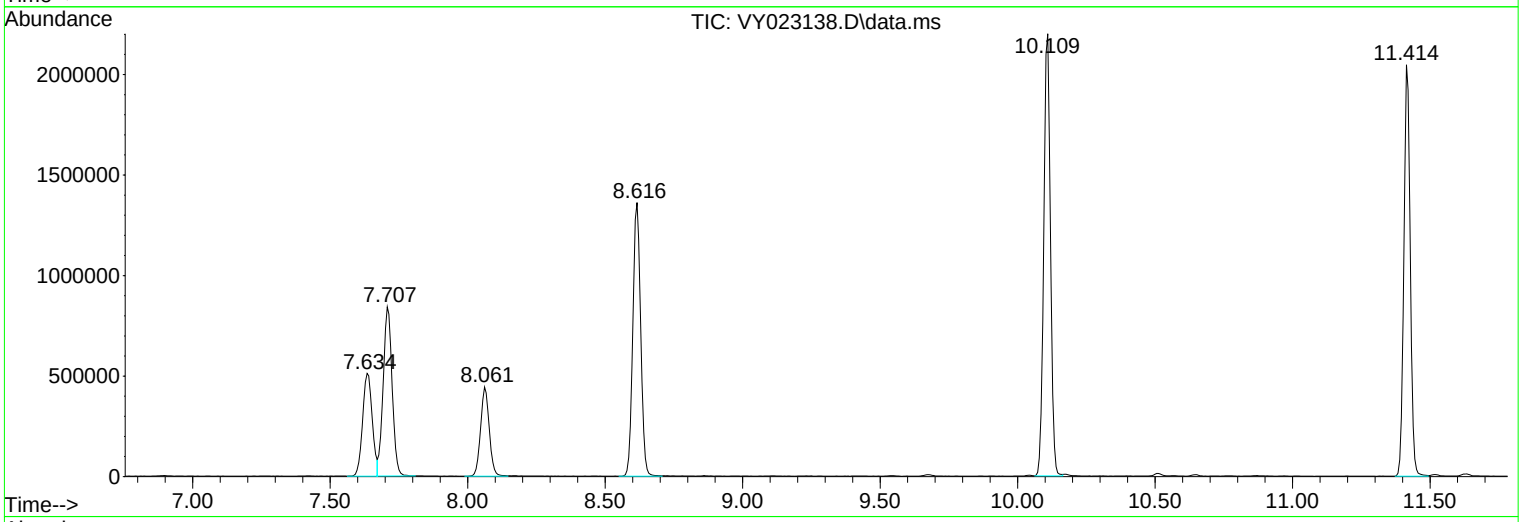
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

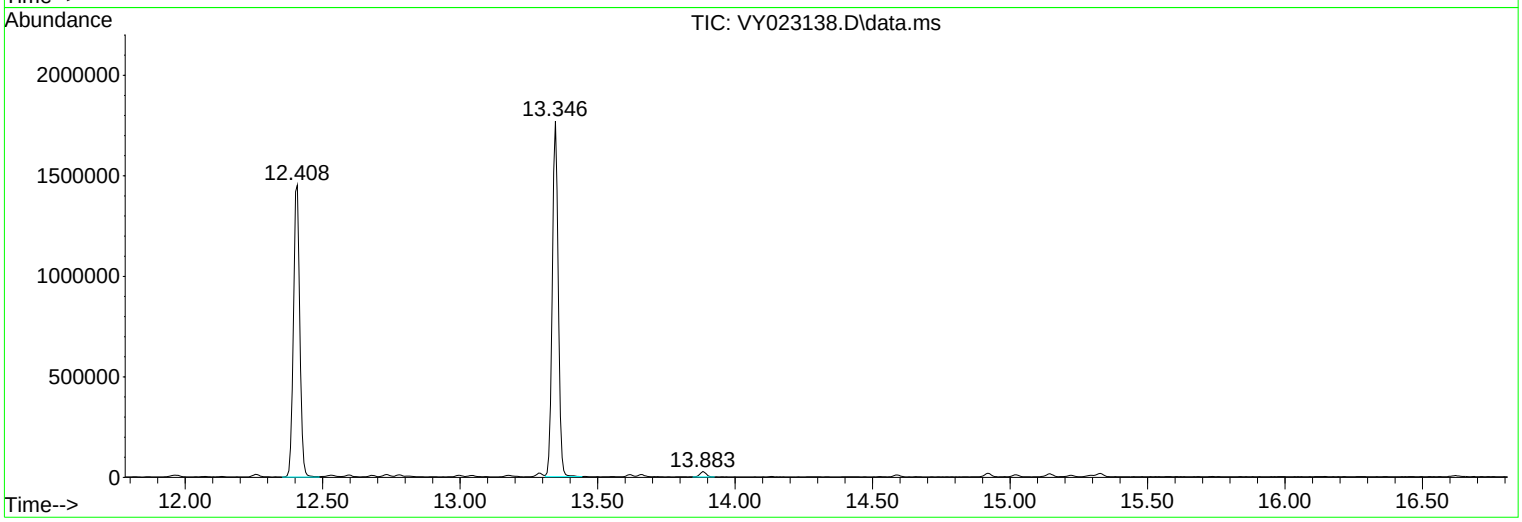
Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBL01

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







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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard 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:	VW0811SBS01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBS01	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
VW032061.D	1	08/11/25 12:48	VW081125

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	20.8		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	21.1		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	21.5		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	17.6		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.4		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	20.2		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.9		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	21.7		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	21.4		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.7		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.0		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	20.0		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	20.0		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.2		0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	20.5		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.0		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.9		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.2		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.0		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.4		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	21.0		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:	VW0811SBS01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBS01	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
VW032061.D	1	08/11/25 12:48	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.4		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.9		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.8		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	110		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	21.2		0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	20.2		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.1		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.9		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	20.9		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	19.6		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.9		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.1		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.4		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		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	20.1		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	19.5		3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	21.4		3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.8		71 - 136		102%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		78 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	49.8		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.4		79 - 119		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	224000	7.959				
540-36-3	1,4-Difluorobenzene	428000	8.849				
3114-55-4	Chlorobenzene-d5	395000	11.629				
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.556				

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Fax : 908 789 8922

Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0811SBS01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBS01	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
VW032061.D	1	08/11/25 12:48	VW081125

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\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 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

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	224181	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	427747	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	394820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	191594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	164557	50.753	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.500%			
35) Dibromofluoromethane	7.898	113	135084	48.883	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 97.760%			
50) Toluene-d8	10.325	98	508647	49.765	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.520%			
62) 4-Bromofluorobenzene	12.617	95	197267	52.373	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	34210	21.336	ug/l	99
3) Chloromethane	2.253	50	44827	20.755	ug/l	100
4) Vinyl Chloride	2.405	62	55119	21.098	ug/l	96
5) Bromomethane	2.814	94	42172	21.516	ug/l	100
6) Chloroethane	2.972	64	36005	20.827	ug/l	93
7) Trichlorofluoromethane	3.302	101	36824	17.595	ug/l	97
8) Diethyl Ether	3.716	74	36836	21.483	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.094	101	49645	20.107	ug/l	99
10) Methyl Iodide	4.301	142	76912	21.970	ug/l	99
11) Tert butyl alcohol	5.222	59	21680	103.263	ug/l	99
12) 1,1-Dichloroethene	4.076	96	55559	20.435	ug/l	98
13) Acrolein	3.923	56	37149	111.050	ug/l	100
14) Allyl chloride	4.704	41	84834	21.439	ug/l	100
15) Acrylonitrile	5.399	53	86103	105.428	ug/l	99
16) Acetone	4.155	43	86915	115.783	ug/l	99
17) Carbon Disulfide	4.417	76	147760	20.248	ug/l	97
18) Methyl Acetate	4.704	43	51464	21.665	ug/l	99
19) Methyl tert-butyl Ether	5.454	73	104973	21.914	ug/l	99
20) Methylene Chloride	4.948	84	74303	21.408	ug/l	96
21) trans-1,2-Dichloroethene	5.454	96	59717	20.698	ug/l	96
22) Diisopropyl ether	6.338	45	180946	21.692	ug/l	98
23) Vinyl Acetate	6.283	43	585943	106.987	ug/l	99
24) 1,1-Dichloroethane	6.240	63	111769	20.971	ug/l	97
25) 2-Butanone	7.191	43	119059	111.594	ug/l	99
26) 2,2-Dichloropropane	7.185	77	55490	20.753	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	71568	21.221	ug/l	97
28) Bromochloromethane	7.526	49	49722	20.501	ug/l	100
29) Tetrahydrofuran	7.551	42	75818	107.756	ug/l	100
30) Chloroform	7.691	83	119431	21.137	ug/l	99
31) Cyclohexane	7.965	56	92372	19.992	ug/l	96
32) 1,1,1-Trichloroethane	7.880	97	84982	20.707	ug/l	97
36) 1,1-Dichloropropene	8.093	75	78541	20.161	ug/l	99
37) Ethyl Acetate	7.270	43	48130	20.977	ug/l	99
38) Carbon Tetrachloride	8.081	117	75079	19.971	ug/l	92
39) Methylcyclohexane	9.343	83	94968	20.000	ug/l	93
40) Benzene	8.337	78	254209	20.993	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 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

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	28577	21.963	ug/l		98
42) 1,2-Dichloroethane	8.410	62	81049	20.917	ug/l		98
43) Isopropyl Acetate	8.435	43	86573	20.509	ug/l		99
44) Trichloroethene	9.099	130	58362	20.238	ug/l		99
45) 1,2-Dichloropropane	9.374	63	61430	20.998	ug/l		100
46) Dibromomethane	9.465	93	38496	20.389	ug/l		97
47) Bromodichloromethane	9.648	83	88565	20.356	ug/l		96
48) Methyl methacrylate	9.441	41	43518	21.354	ug/l		98
49) 1,4-Dioxane	9.459	88	9712	397.829	ug/l		97
51) 4-Methyl-2-Pentanone	10.209	43	253567	106.423	ug/l		99
52) Toluene	10.386	92	160474	21.039	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	83098	20.387	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	96489	20.866	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	52115	20.771	ug/l		98
56) Ethyl methacrylate	10.648	69	71491	21.293	ug/l		98
57) 1,3-Dichloropropane	10.934	76	91289	20.874	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	195002	105.002	ug/l		99
59) 2-Hexanone	10.971	43	178926	108.432	ug/l		99
60) Dibromochloromethane	11.129	129	58977	20.578	ug/l		97
61) 1,2-Dibromoethane	11.239	107	51647	21.183	ug/l		100
64) Tetrachloroethene	10.861	164	48059	21.074	ug/l		97
65) Chlorobenzene	11.660	112	173499	20.189	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.727	131	53383	19.910	ug/l		99
67) Ethyl Benzene	11.727	91	293010	20.129	ug/l		96
68) m/p-Xylenes	11.837	106	229740	40.901	ug/l		98
69) o-Xylene	12.166	106	110031	21.194	ug/l		95
70) Styrene	12.178	104	192666	20.893	ug/l		98
71) Bromoform	12.349	173	30108	19.630	ug/l	#	97
73) Isopropylbenzene	12.465	105	266790	19.925	ug/l		99
74) N-amyl acetate	12.269	43	78852	20.526	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	63958	20.118	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	48380m	18.605	ug/l		
77) Bromobenzene	12.745	156	65314	20.423	ug/l		98
78) n-propylbenzene	12.800	91	339857	20.616	ug/l		98
79) 2-Chlorotoluene	12.885	91	209277	20.570	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	238429	20.975	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.513	75	18566	18.484	ug/l		92
82) 4-Chlorotoluene	12.983	91	222101	20.547	ug/l		100
83) tert-Butylbenzene	13.202	119	196393	20.817	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	241596	20.878	ug/l		99
85) sec-Butylbenzene	13.379	105	282666	19.818	ug/l		99
86) p-Isopropyltoluene	13.495	119	238749	20.078	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	129585	20.364	ug/l		96
88) 1,4-Dichlorobenzene	13.574	146	132968	20.677	ug/l		100
89) n-Butylbenzene	13.818	91	235392	20.377	ug/l		98
90) Hexachloroethane	14.092	117	41522	19.094	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	116780	20.259	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	11343	20.070	ug/l		98
93) 1,2,4-Trichlorobenzene	15.123	180	67394	19.544	ug/l		99
94) Hexachlorobutadiene	15.226	225	31990	20.753	ug/l		93
95) Naphthalene	15.360	128	173199	20.498	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	67287	21.446	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 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

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

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\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 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

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations APPROVED

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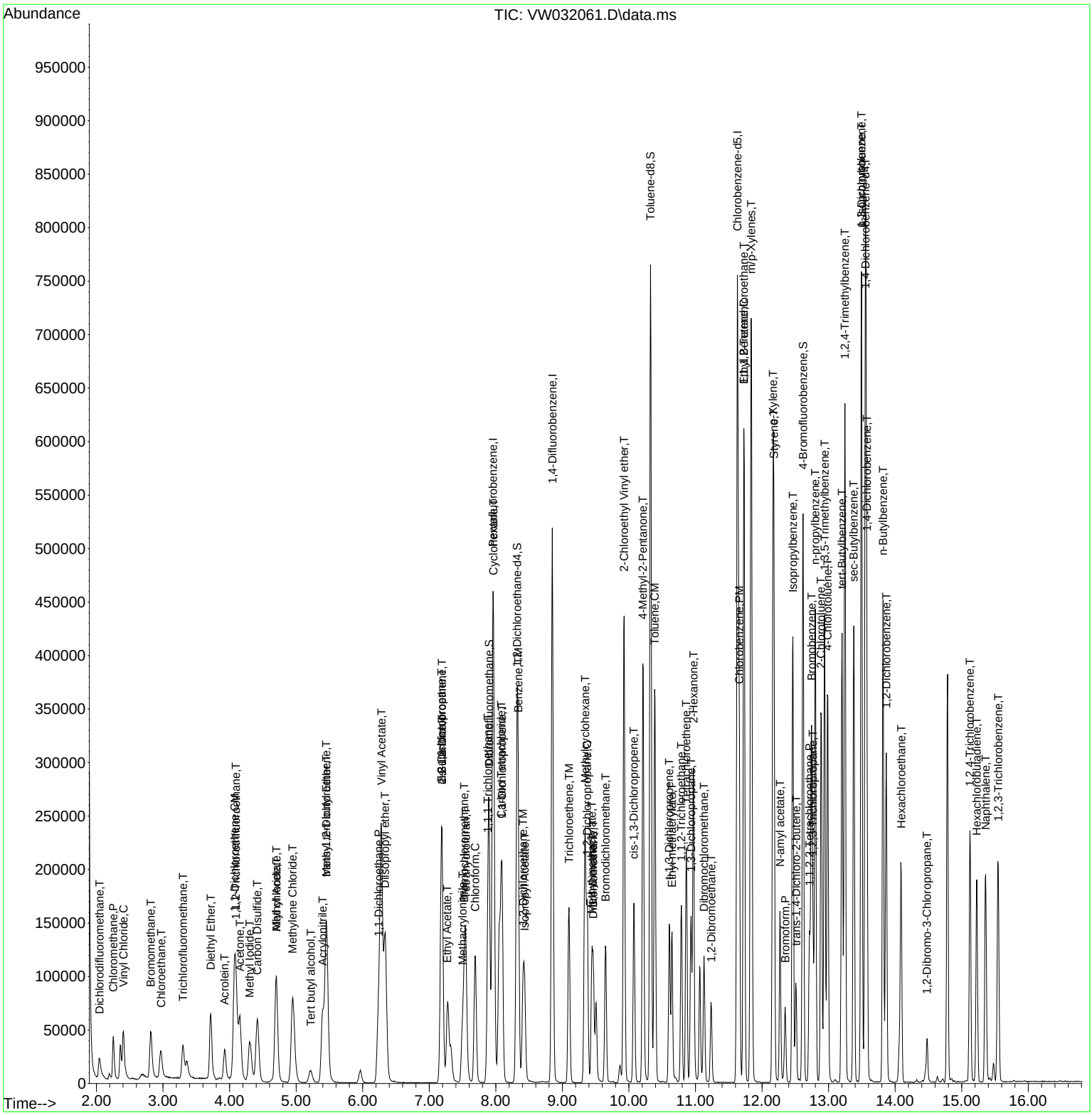
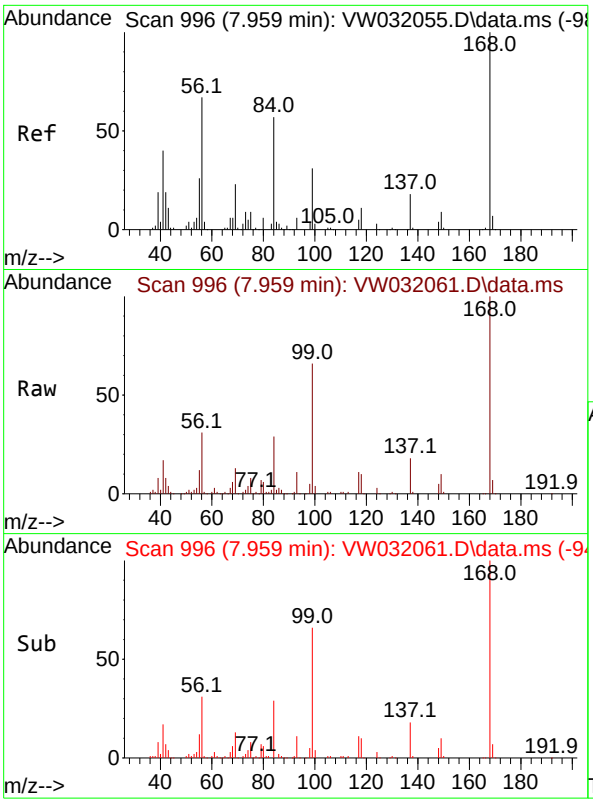
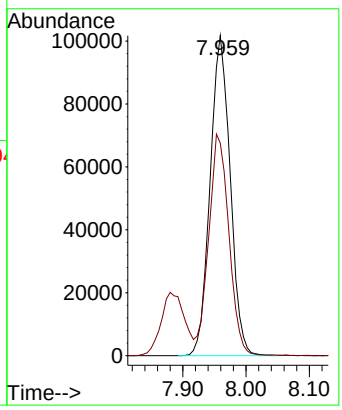




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:168 Resp: 22418

Ion	Ratio	Lower	Upper
168	100		
99	66.2	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
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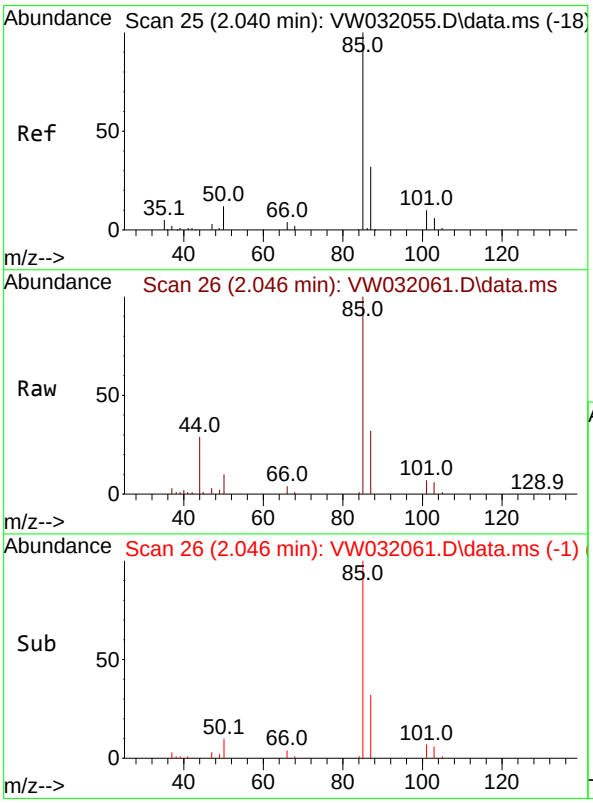
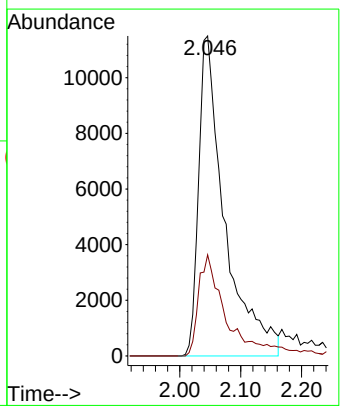
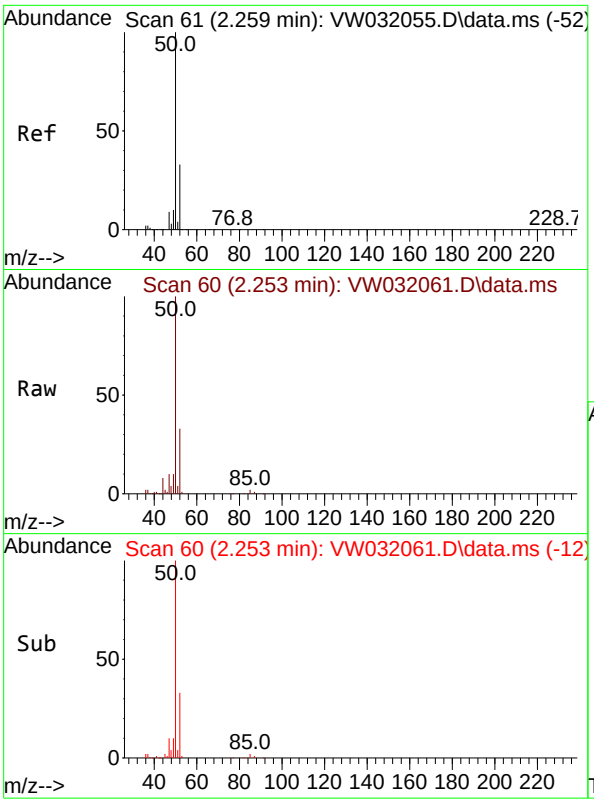


#2
Dichlorodifluoromethane
Concen: 21.336 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 85 Resp: 34210

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.2	48.6

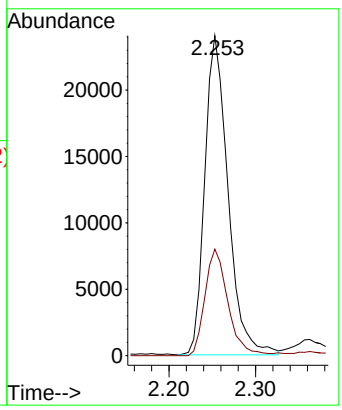




#3
Chloromethane
Concen: 20.755 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 50 Resp: 4482

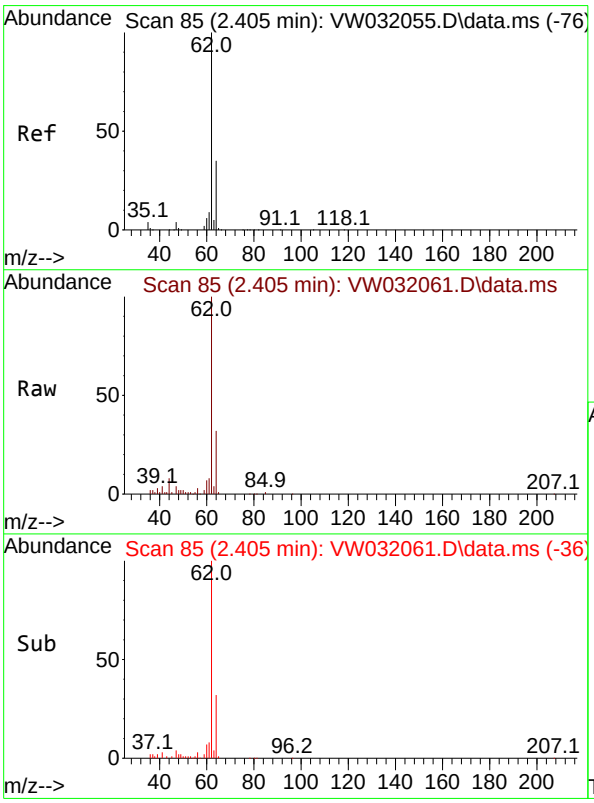
Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.6	39.8



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

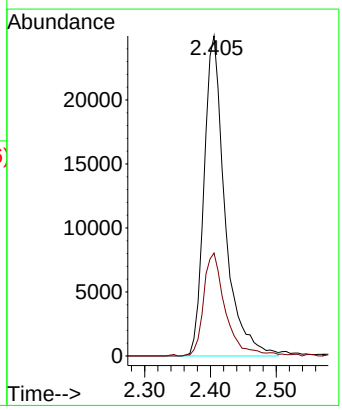
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

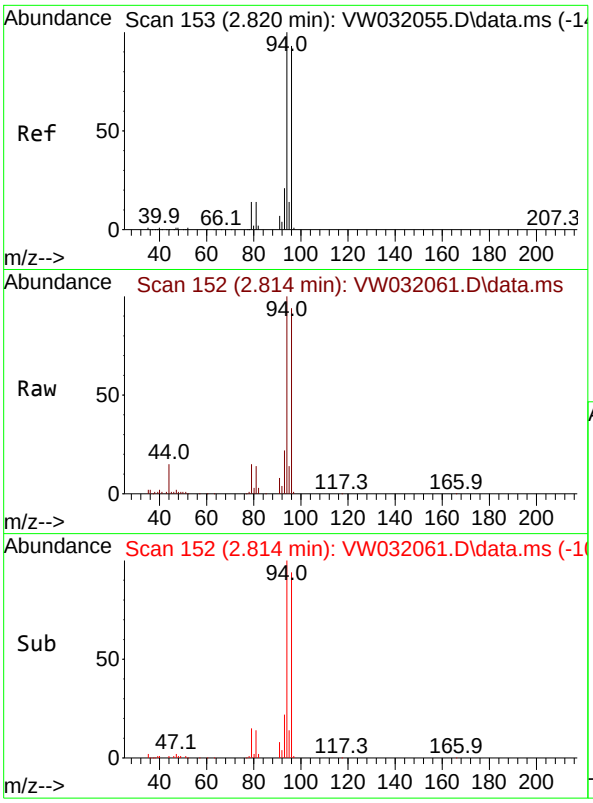


#4
Vinyl Chloride
Concen: 21.098 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 55119

Ion	Ratio	Lower	Upper
62	100		
64	32.2	27.8	41.6

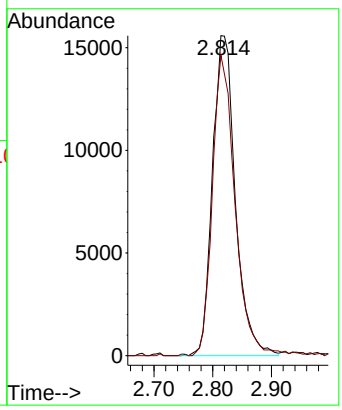




#5
Bromomethane
Concen: 21.516 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 94 Resp: 4217

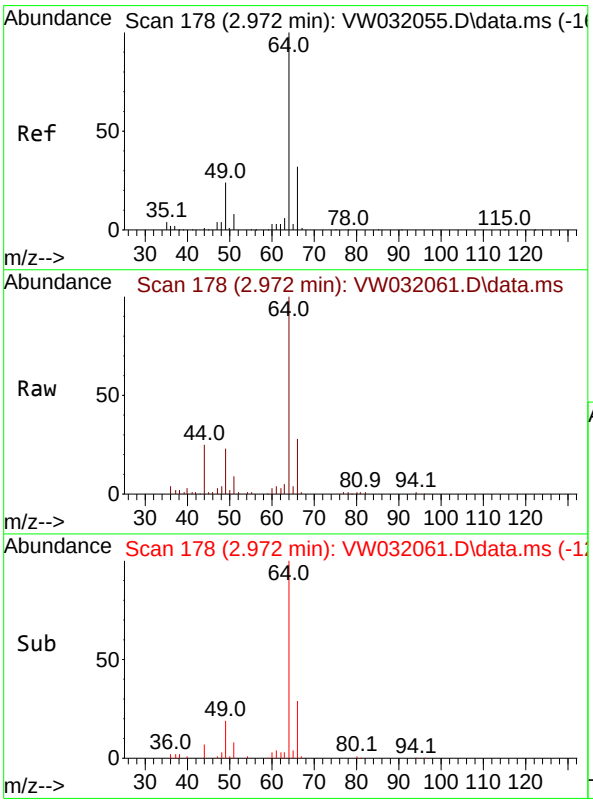
Ion	Ratio	Lower	Upper
94	100		
96	93.9	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

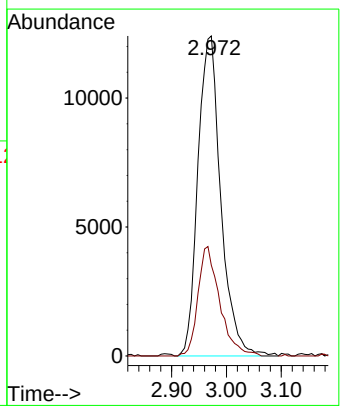
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

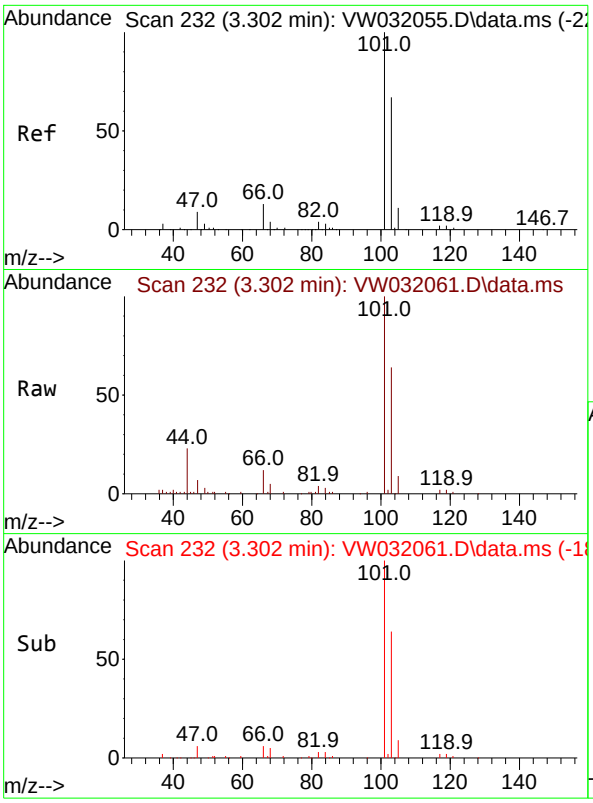


#6
Chloroethane
Concen: 20.827 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 64 Resp: 36005

Ion	Ratio	Lower	Upper
64	100		
66	28.3	26.0	39.0

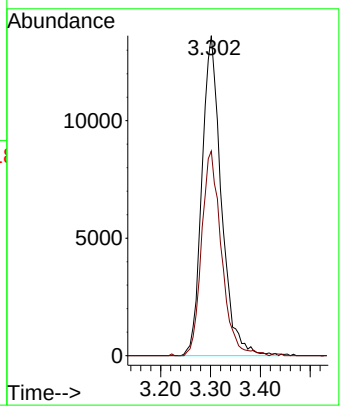




#7
Trichlorofluoromethane
Concen: 17.595 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:101 Resp: 3682

Ion	Ratio	Lower	Upper
101	100		
103	63.9	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
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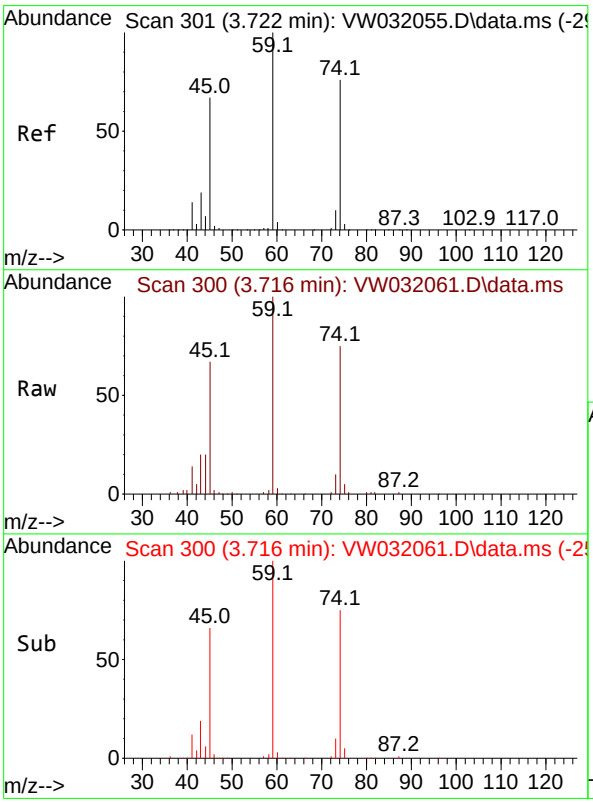
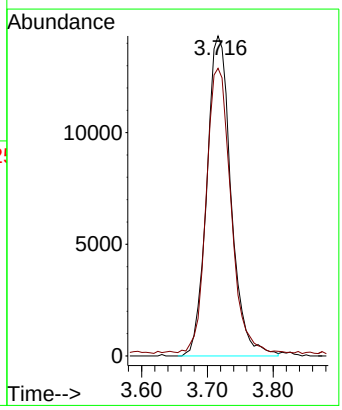
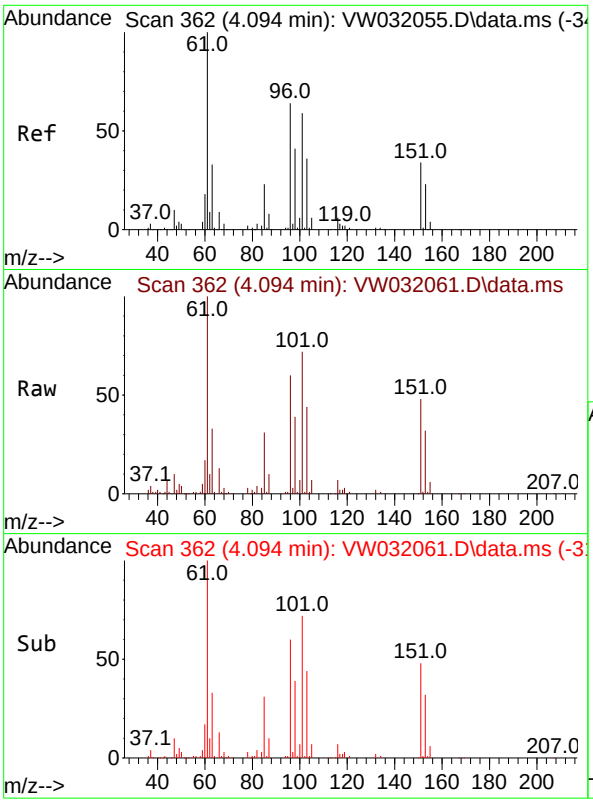


#8
Diethyl Ether
Concen: 21.483 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 74 Resp: 36836

Ion	Ratio	Lower	Upper
74	100		
45	90.0	45.4	136.2

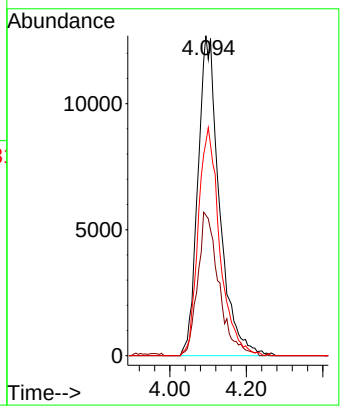




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.107 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:101 Resp: 4964

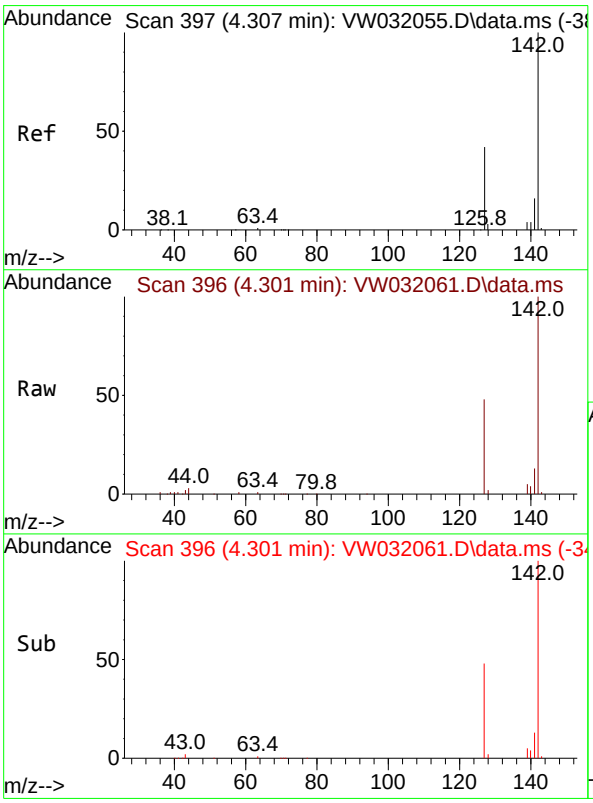
Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.9	52.3
151	71.3	56.2	84.4



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

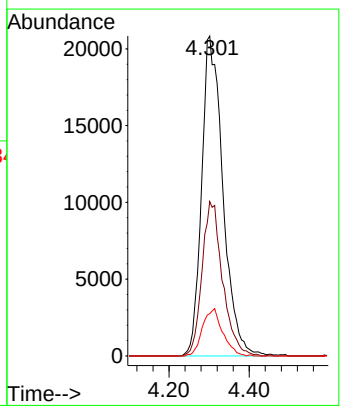
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

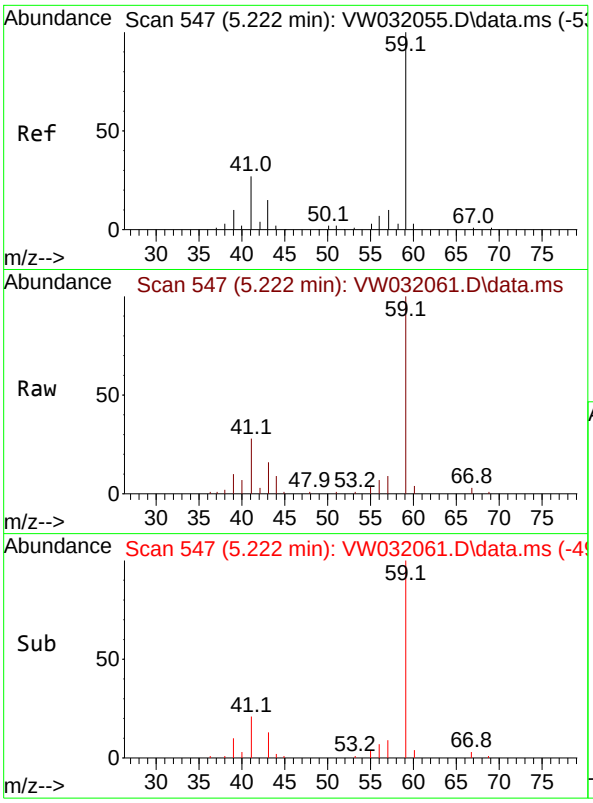


#10
Methyl Iodide
Concen: 21.970 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:142 Resp: 76912

Ion	Ratio	Lower	Upper
142	100		
127	46.4	36.6	55.0
141	14.0	12.1	18.1

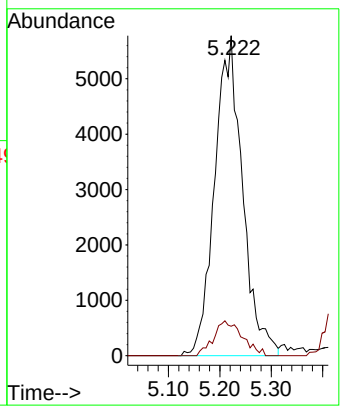




#11
Tert butyl alcohol
Concen: 103.263 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 59 Resp: 2168

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.7	13.1



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

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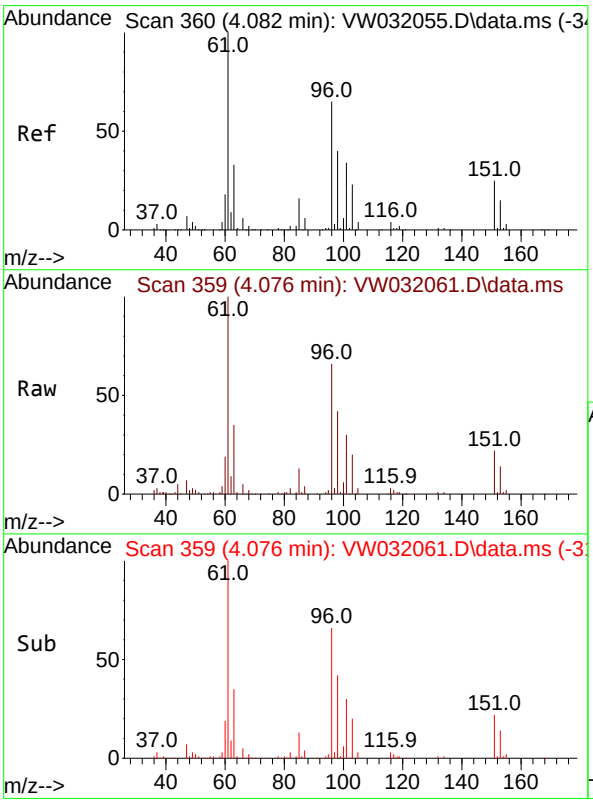
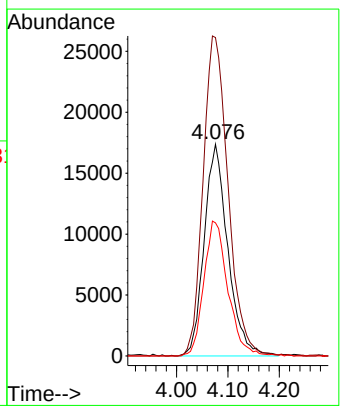
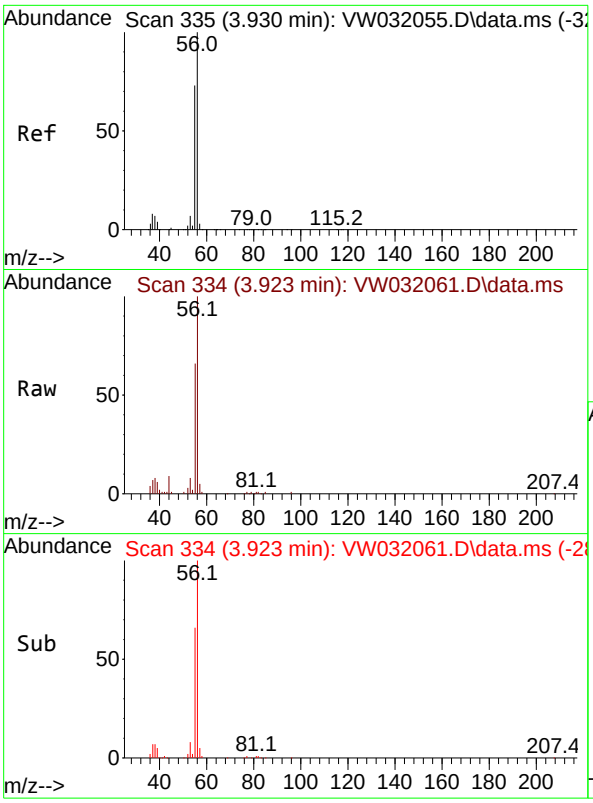


#12
1,1-Dichloroethene
Concen: 20.435 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 55559

Ion	Ratio	Lower	Upper
96	100		
61	150.5	123.4	185.2
98	62.9	49.5	74.3





#13
Acrolein
Concen: 111.050 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 56 Resp: 3714

Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.4	83.2

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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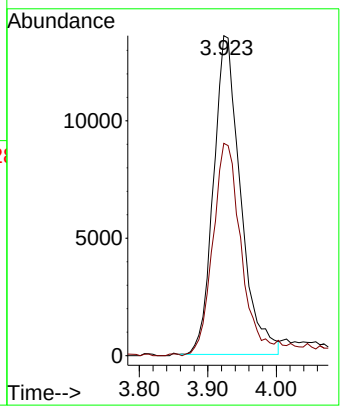
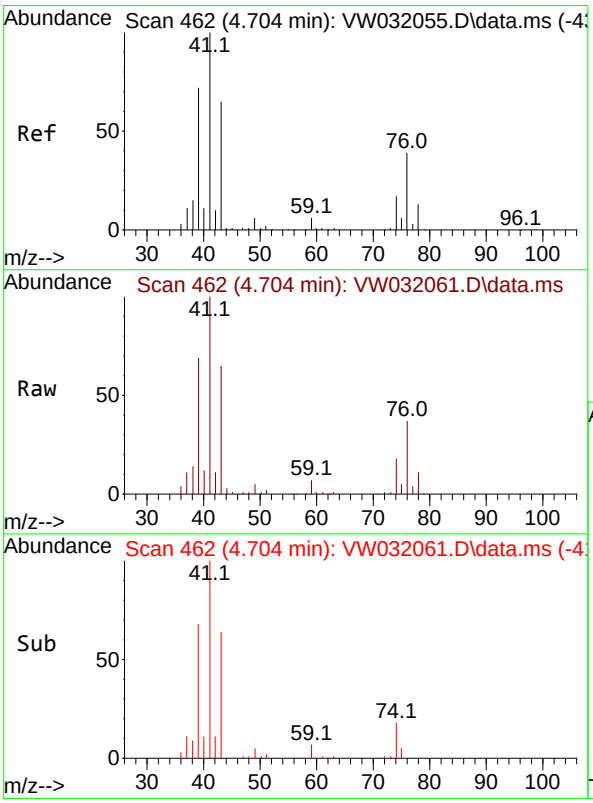
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

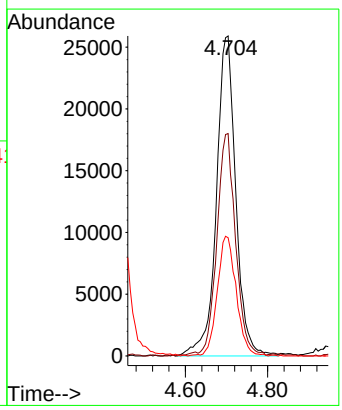


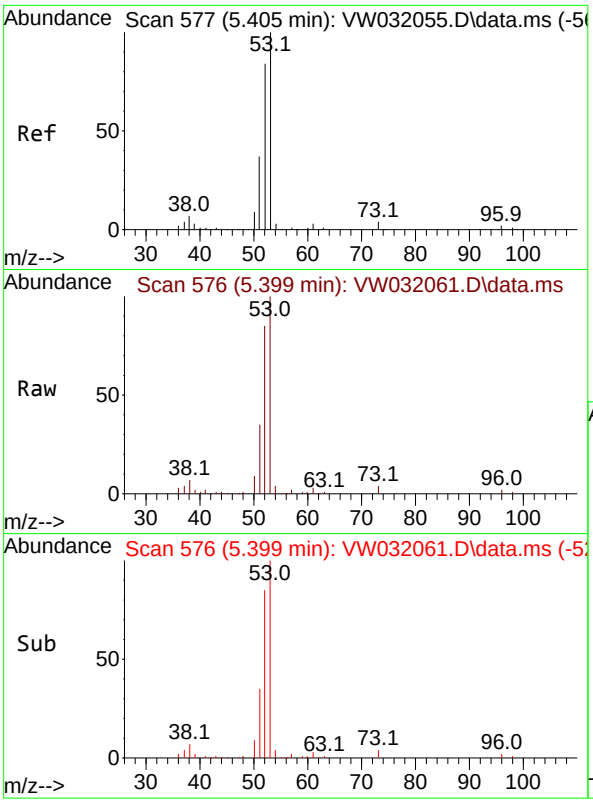


#14
Allyl chloride
Concen: 21.439 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 84834

Ion	Ratio	Lower	Upper
41	100		
39	67.7	54.5	81.7
76	36.6	29.3	43.9

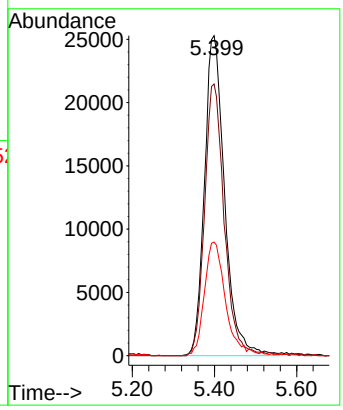




#15
Acrylonitrile
Concen: 105.428 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 53 Resp: 8610

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.1	99.1
51	37.5	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
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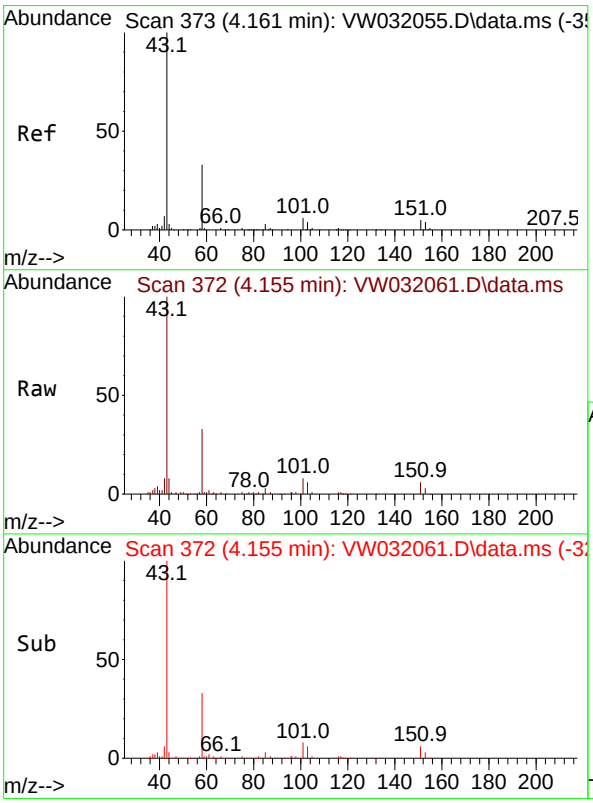
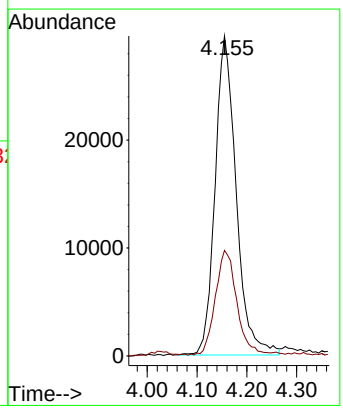
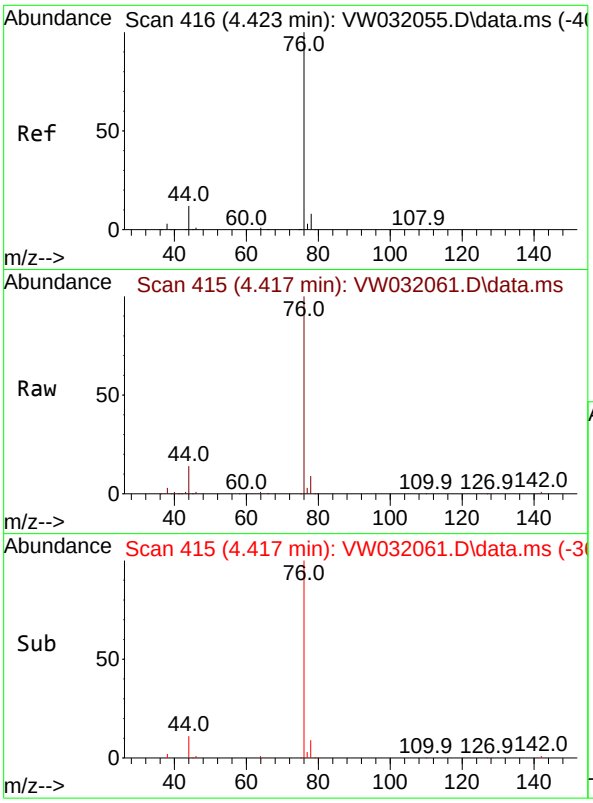


#16
Acetone
Concen: 115.783 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 86915

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.6	39.8

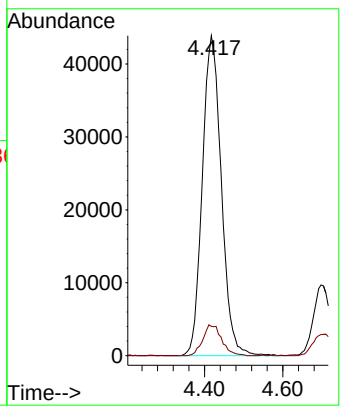




#17
Carbon Disulfide
Concen: 20.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 76 Resp: 14776

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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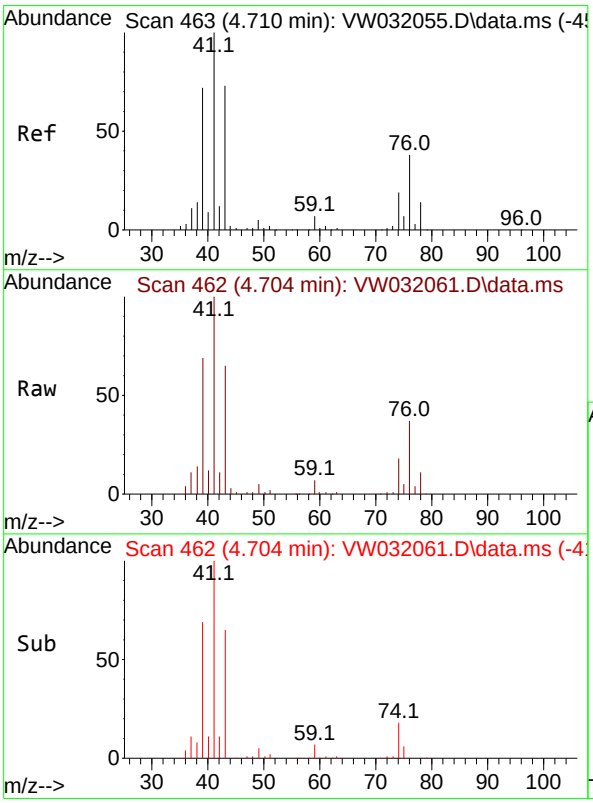
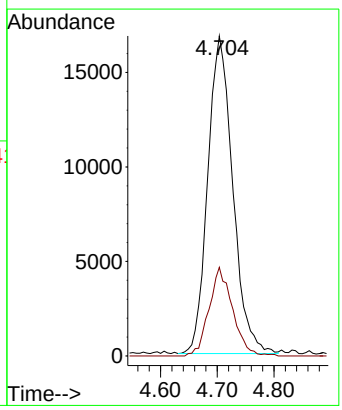
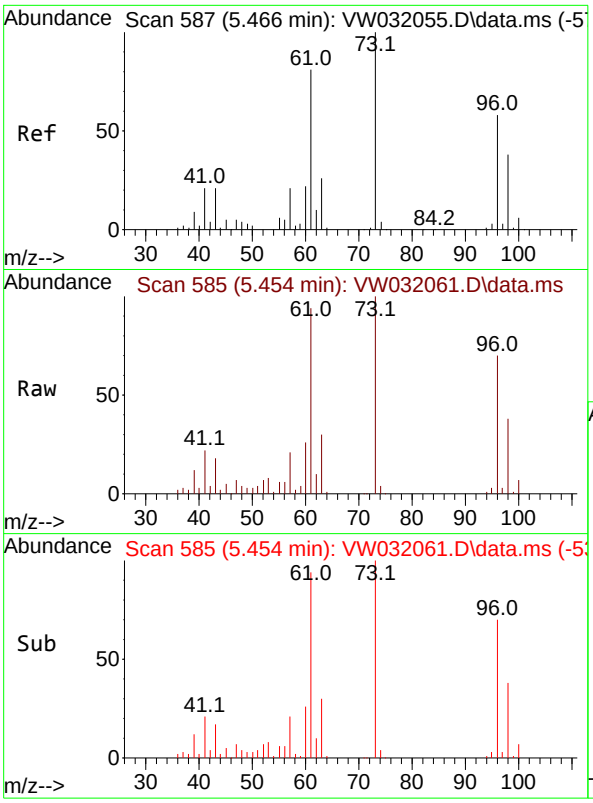


#18
Methyl Acetate
Concen: 21.665 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 51464

Ion	Ratio	Lower	Upper
43	100		
74	26.3	20.6	31.0

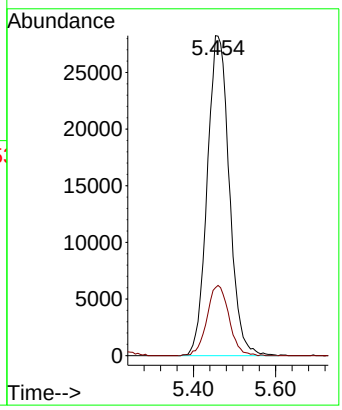




#19
Methyl tert-butyl Ether
Concen: 21.914 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 73 Resp: 10497

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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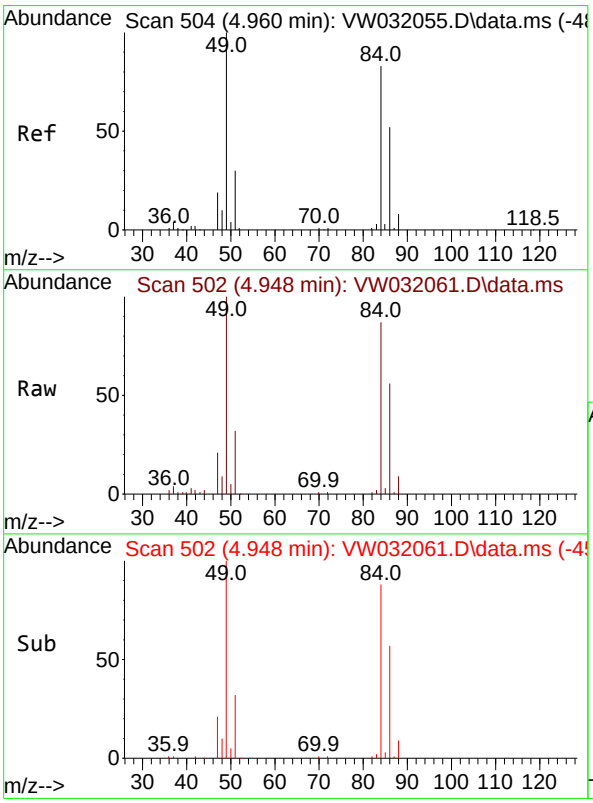
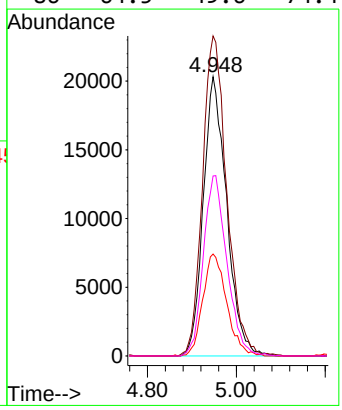
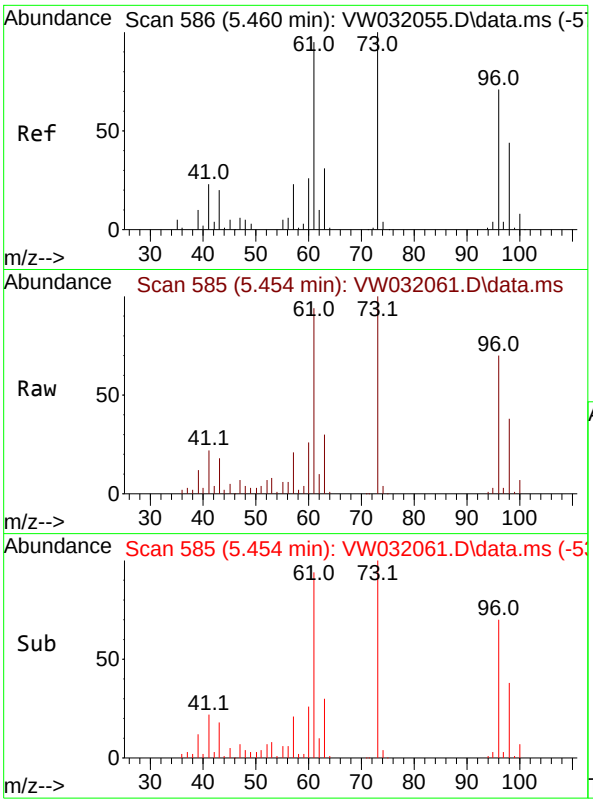


#20
Methylene Chloride
Concen: 21.408 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 84 Resp: 74303

Ion	Ratio	Lower	Upper
84	100		
49	114.6	95.9	143.9
51	36.5	28.6	43.0
86	64.5	49.6	74.4

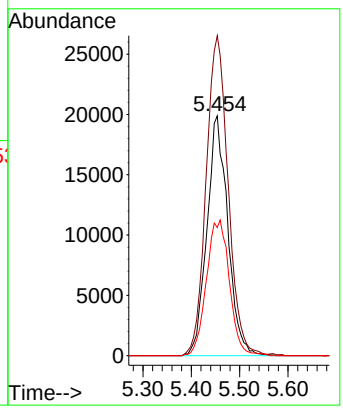




#21
trans-1,2-Dichloroethene
Concen: 20.698 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 5971

Ion	Ratio	Lower	Upper
96	100		
61	133.4	106.8	160.2
98	53.4	49.6	74.4



Instrument :
MSVOA_W
ClientSampleId :
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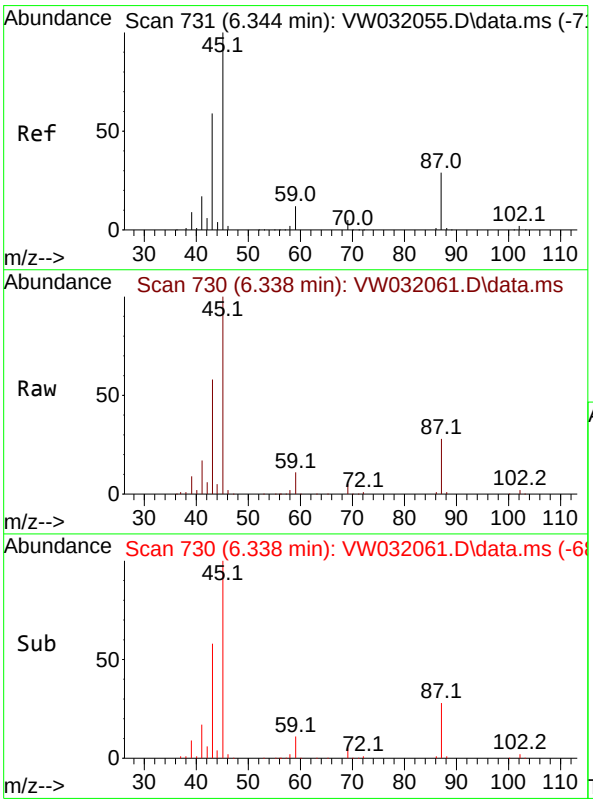
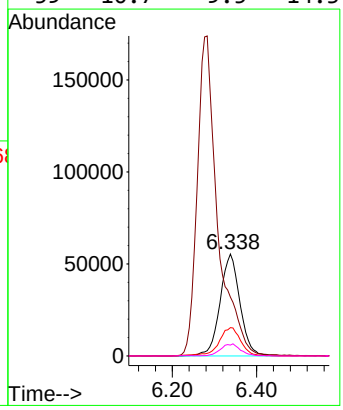
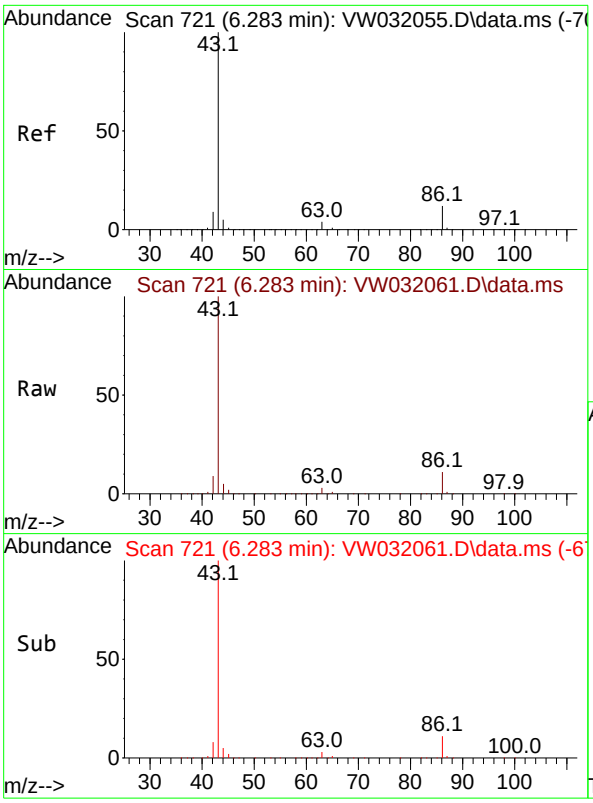


#22
Diisopropyl ether
Concen: 21.692 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 45 Resp: 180946

Ion	Ratio	Lower	Upper
45	100		
43	57.4	47.0	70.4
87	27.9	23.8	35.8
59	10.7	9.5	14.3





#23
Vinyl Acetate
Concen: 106.987 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 58594

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
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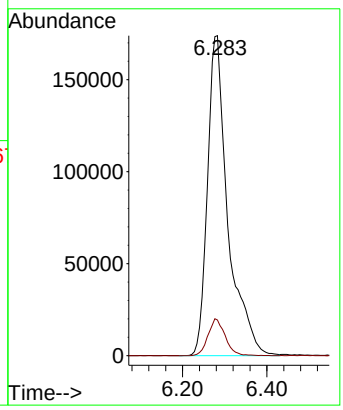
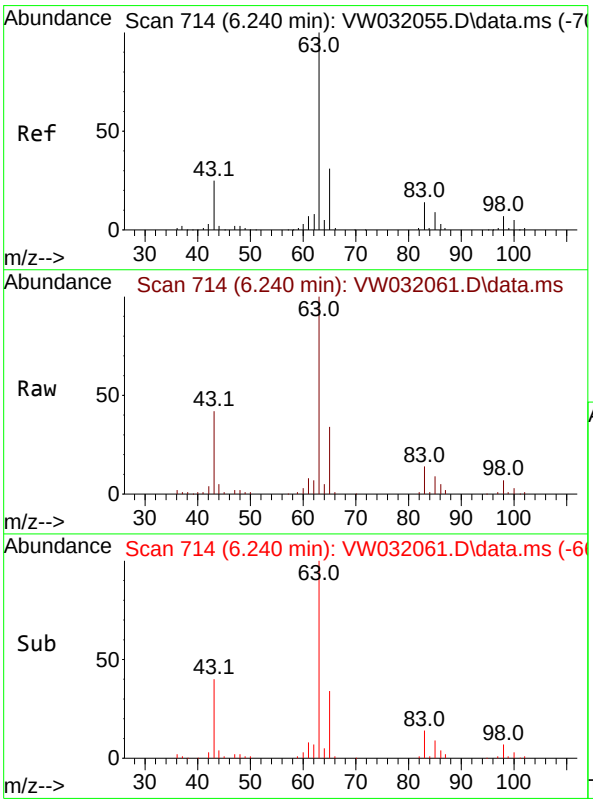
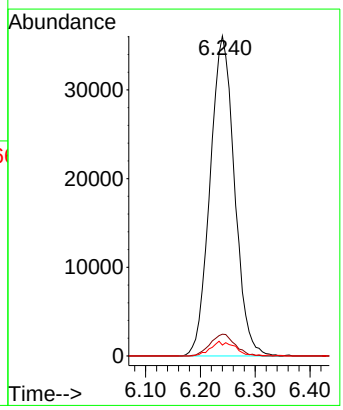


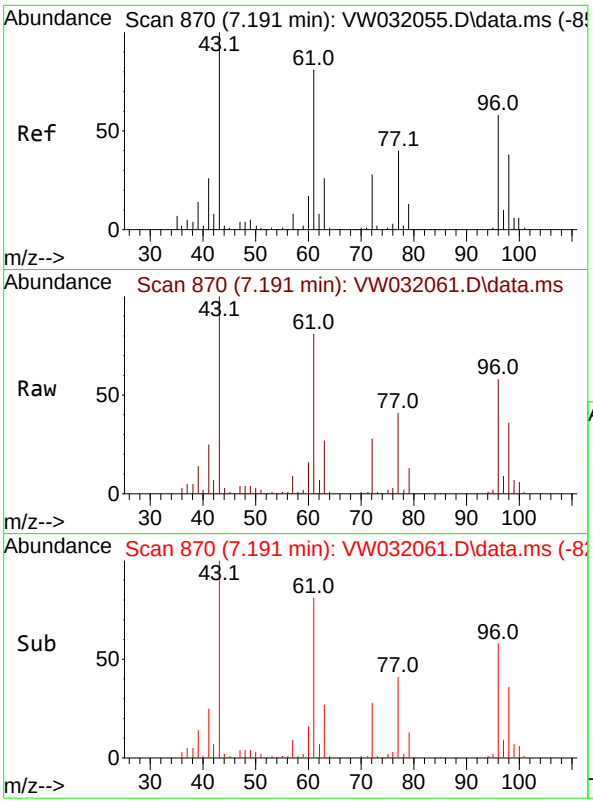


#24
1,1-Dichloroethane
Concen: 20.971 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 111769

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.7	11.1
100	3.4	2.5	7.4

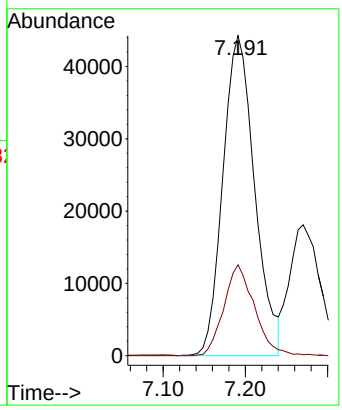




#25
2-Butanone
Concen: 111.594 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 11905

Ion	Ratio	Lower	Upper
43	100		
72	28.4	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
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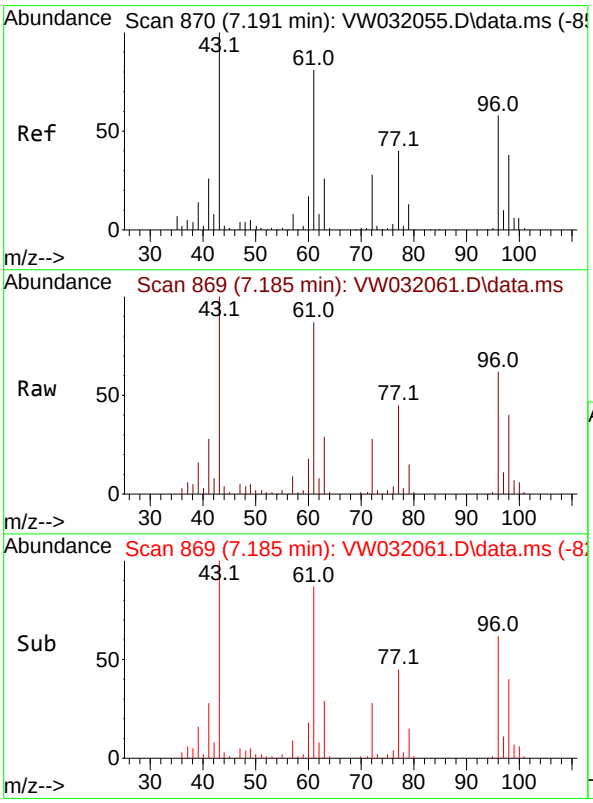
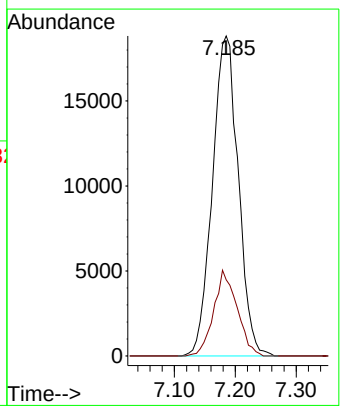
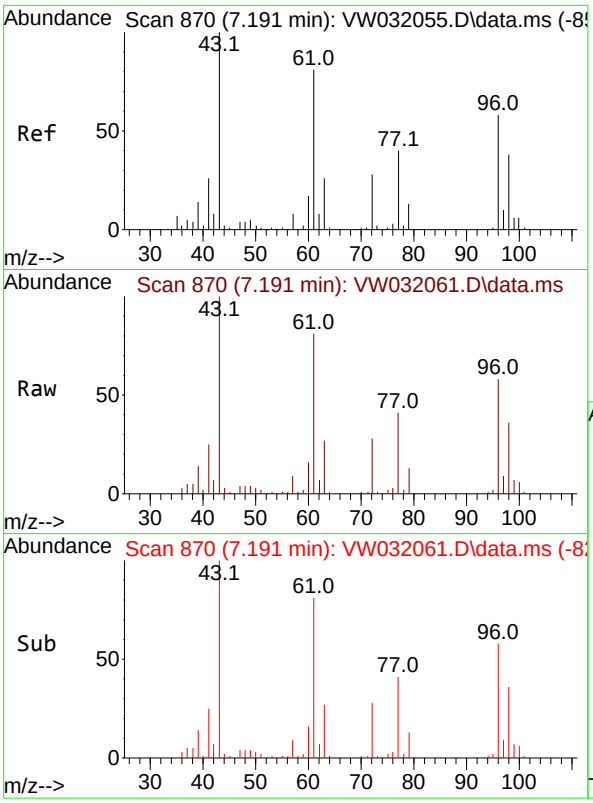


#26
2,2-Dichloropropane
Concen: 20.753 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 77 Resp: 55490

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.3	36.9





#27
cis-1,2-Dichloroethene
Concen: 21.221 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 7156

Ion	Ratio	Lower	Upper
96	100		
61	136.3	0.0	281.2
98	63.8	0.0	130.8

Instrument :
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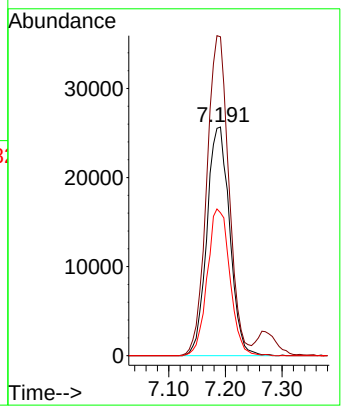
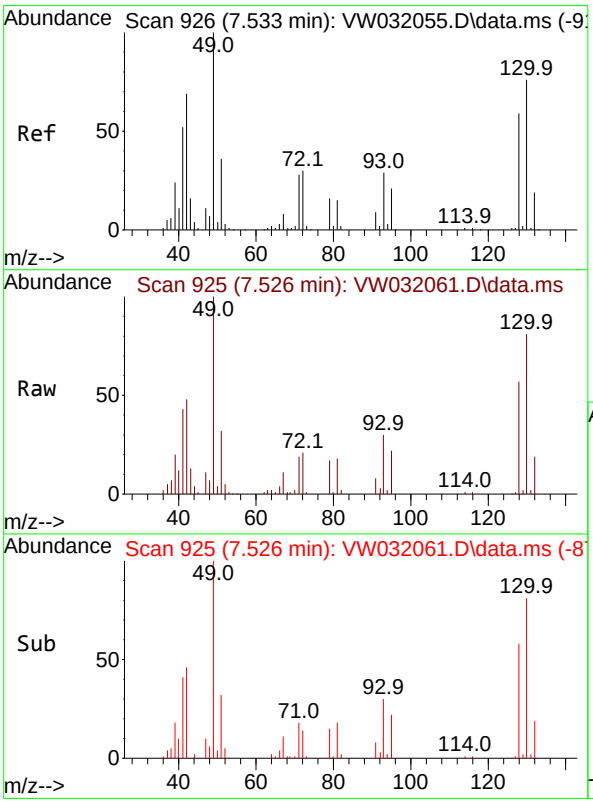
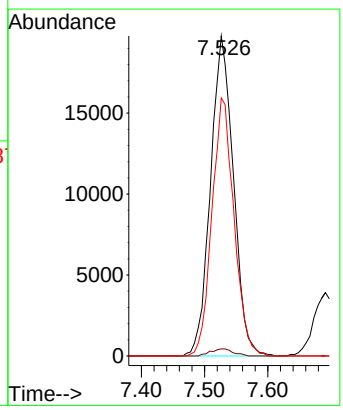


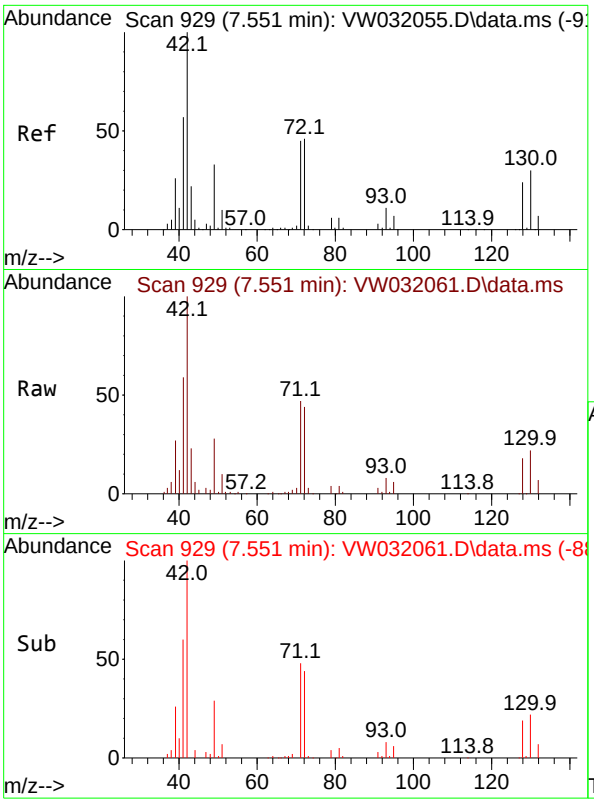


#28
Bromochloromethane
Concen: 20.501 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 49 Resp: 49722

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.6	61.9	92.9

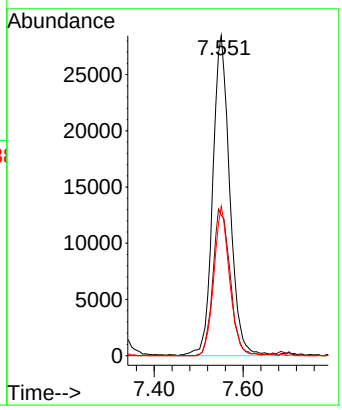




#29
Tetrahydrofuran
Concen: 107.756 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 42 Resp: 7581

Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.6	55.0
71	43.0	34.7	52.1



Instrument :
MSVOA_W
ClientSampleId :
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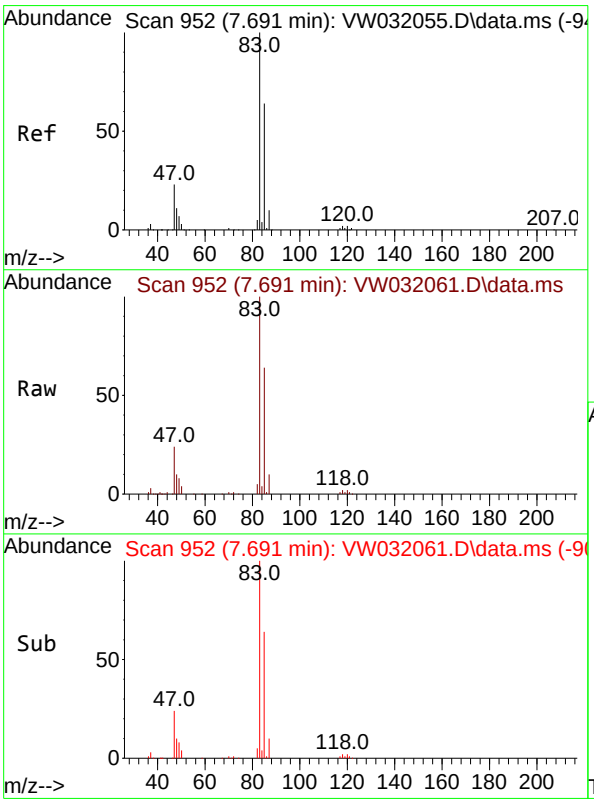
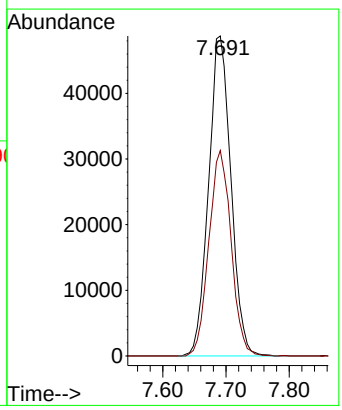
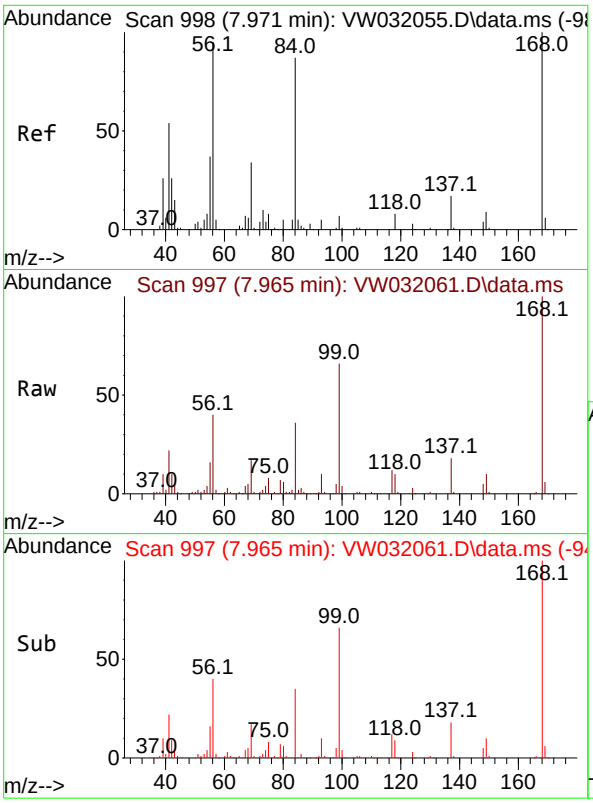


#30
Chloroform
Concen: 21.137 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 119431

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.0	76.4

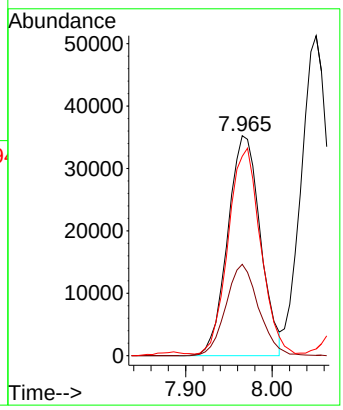




#31
Cyclohexane
Concen: 19.992 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 56 Resp: 9237

Ion	Ratio	Lower	Upper
56	100		
69	41.5	28.6	42.8
84	89.3	73.0	109.4



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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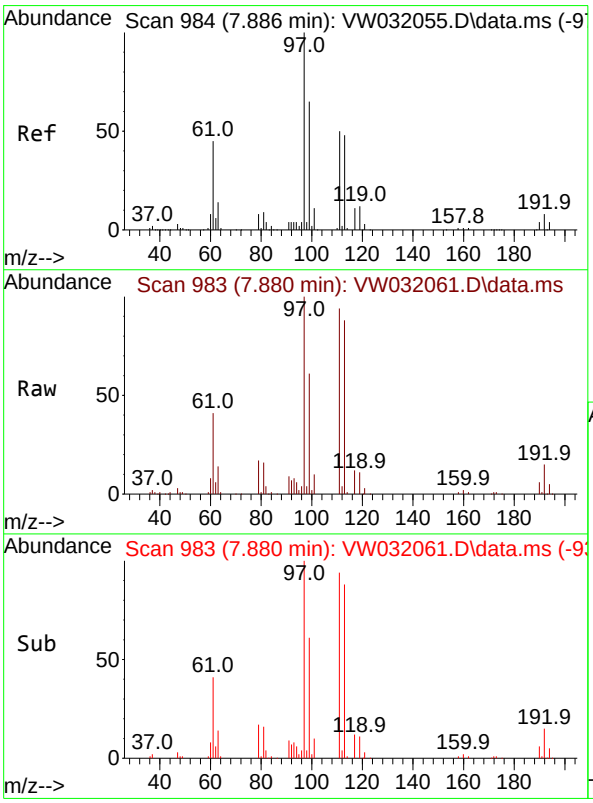
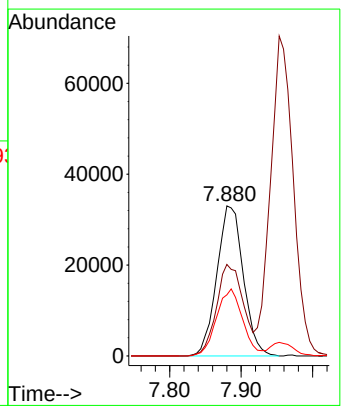
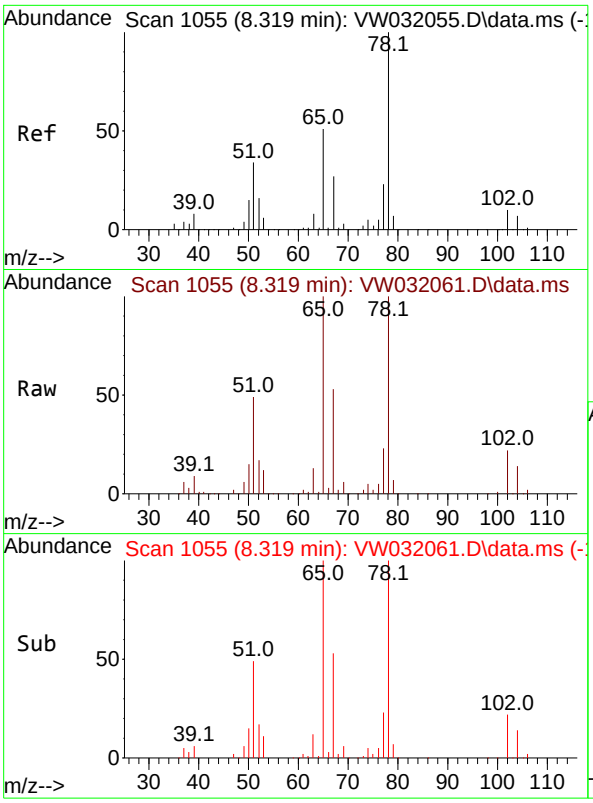


#32
1,1,1-Trichloroethane
Concen: 20.707 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 97 Resp: 84982

Ion	Ratio	Lower	Upper
97	100		
99	61.5	51.8	77.8
61	44.0	35.9	53.9

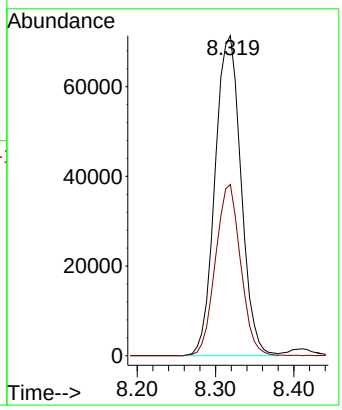




#33
1,2-Dichloroethane-d4
Concen: 50.753 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 65 Resp: 16455

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	102.4



Instrument :
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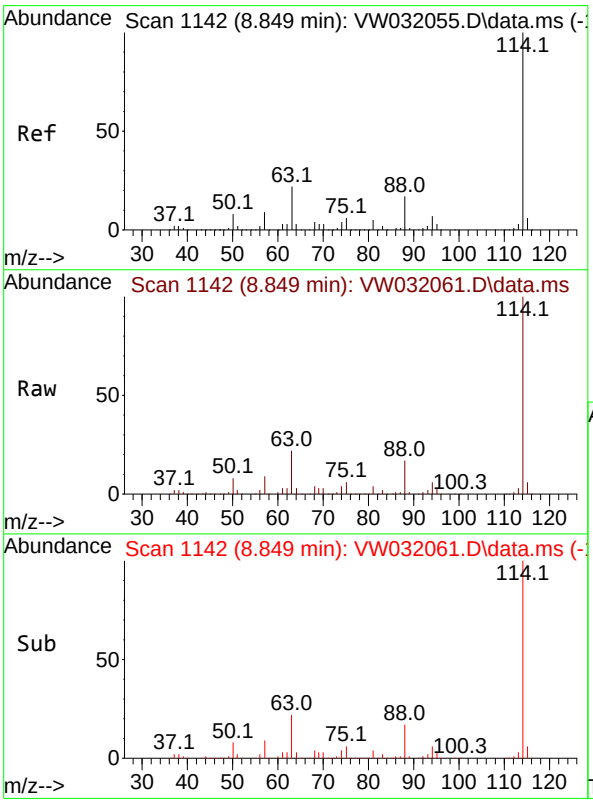
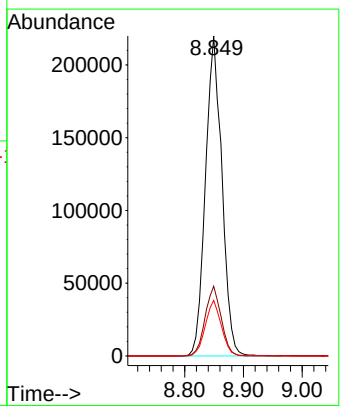
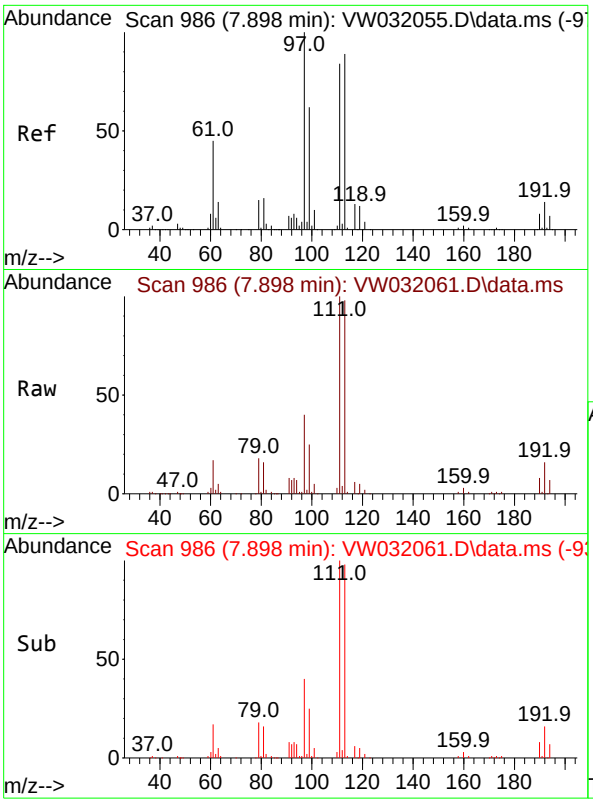


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:114 Resp: 427747

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.0
88	17.3	0.0	33.8





#35
Dibromofluoromethane
Concen: 48.883 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:113 Resp: 13508

Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.1	120.1
192	16.5	13.1	19.7

Instrument :
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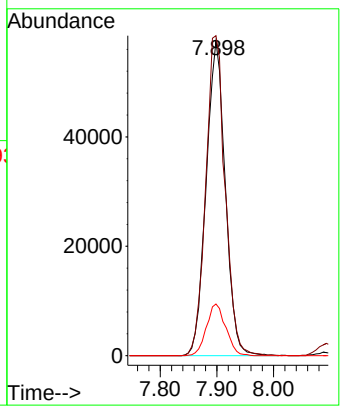
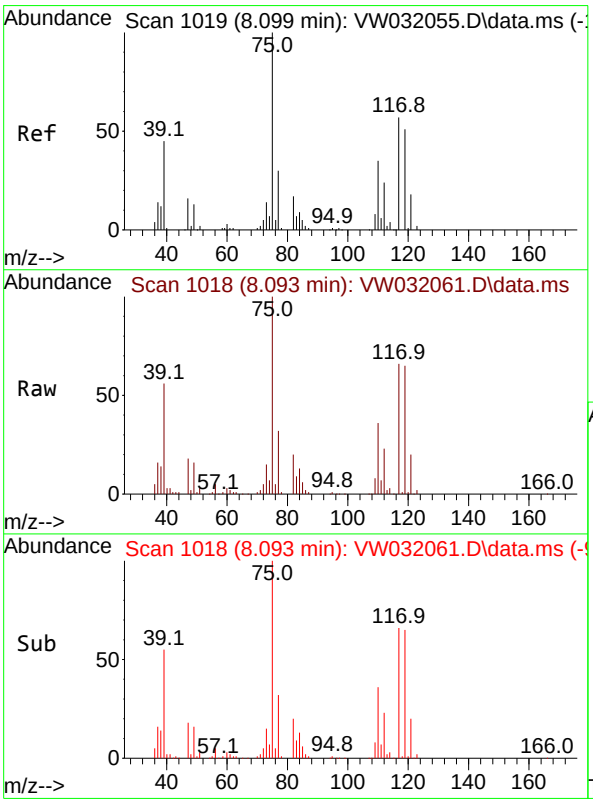
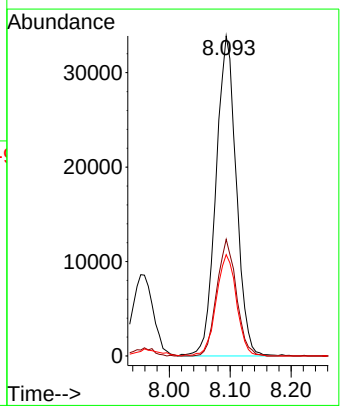


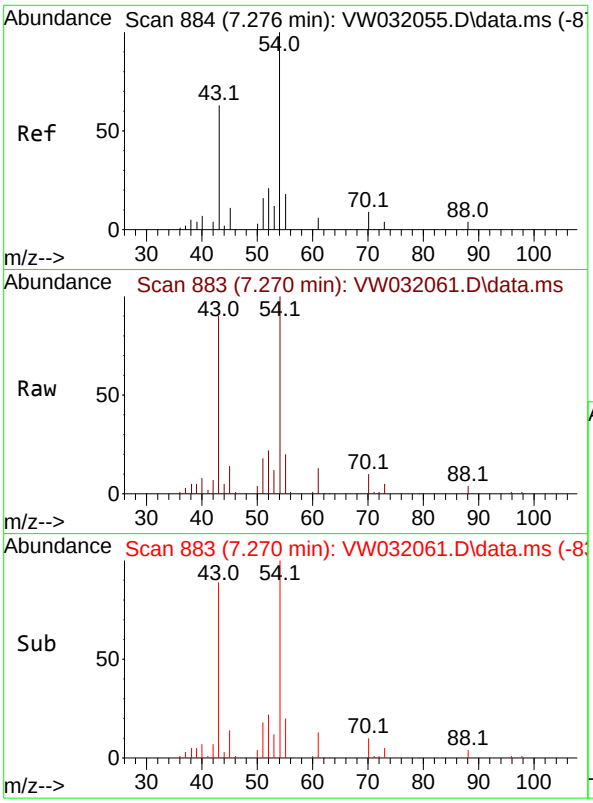


#36
1,1-Dichloropropene
Concen: 20.161 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 78541

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.4	52.2
77	31.7	24.7	37.1





#37
Ethyl Acetate
Concen: 20.977 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 4813

Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.8	17.6
70	11.7	9.4	14.0

Instrument :
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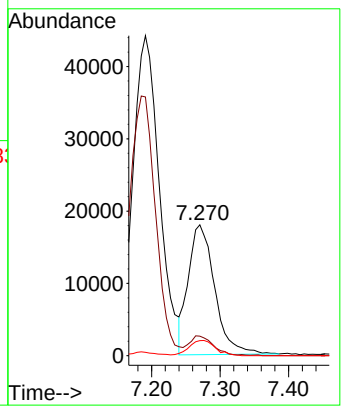
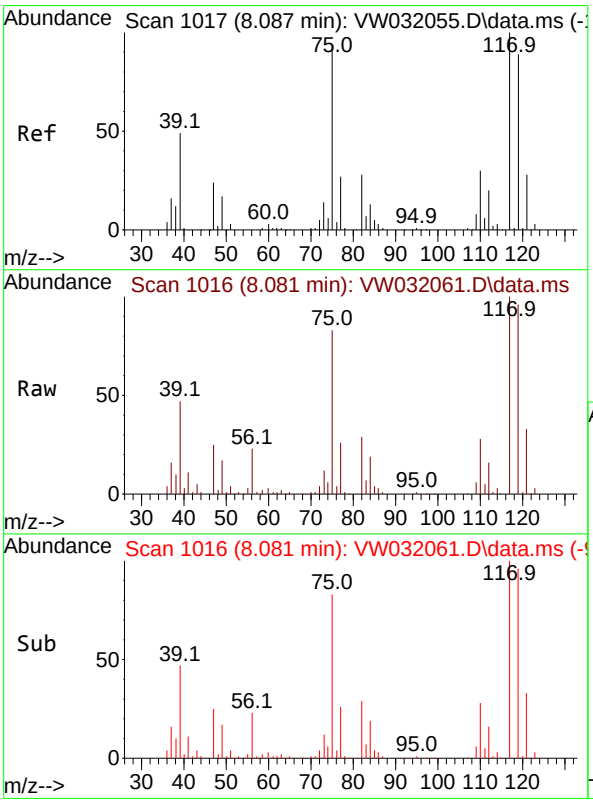
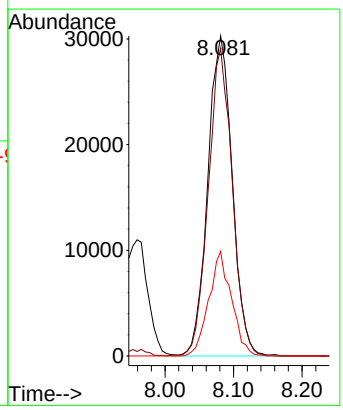


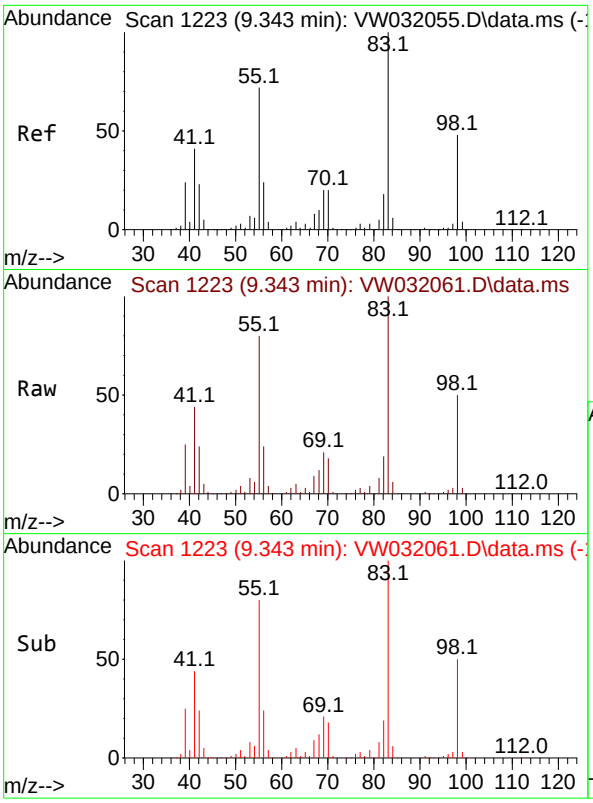


#38
Carbon Tetrachloride
Concen: 19.971 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 75079

Ion	Ratio	Lower	Upper
117	100		
119	95.9	71.4	107.2
121	32.6	22.3	33.5

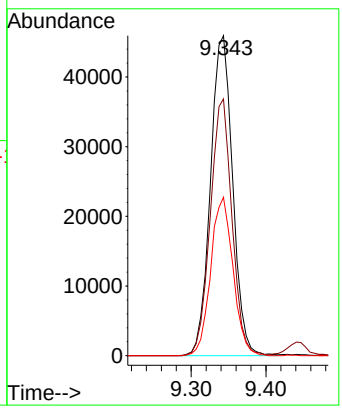




#39
Methylcyclohexane
Concen: 20.000 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 9496

Ion	Ratio	Lower	Upper
83	100		
55	80.3	57.9	86.9
98	49.5	38.3	57.5



Instrument :
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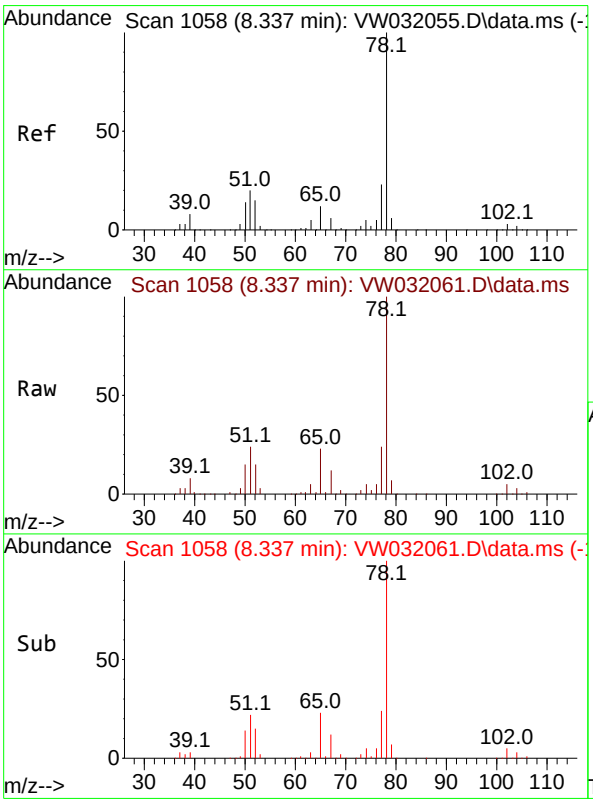
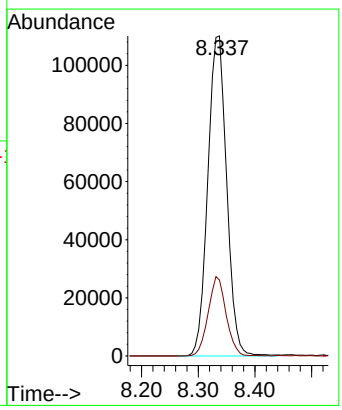
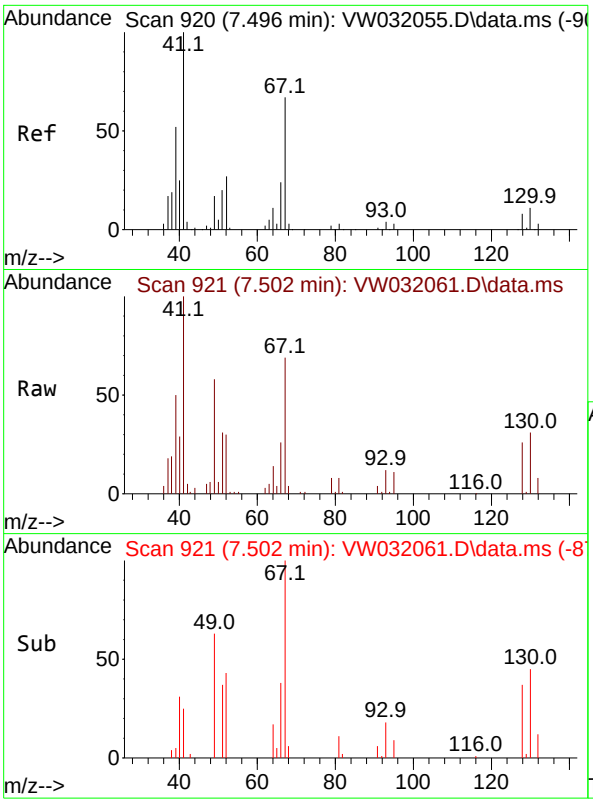


#40
Benzene
Concen: 20.993 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 78 Resp: 254209

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.4	27.6

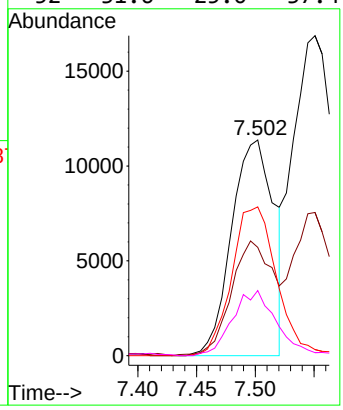




#41
Methacrylonitrile
Concen: 21.963 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 2857

Ion	Ratio	Lower	Upper
41	100		
39	52.5	42.6	63.8
67	73.7	61.0	91.4
52	31.6	25.0	37.4



Instrument :
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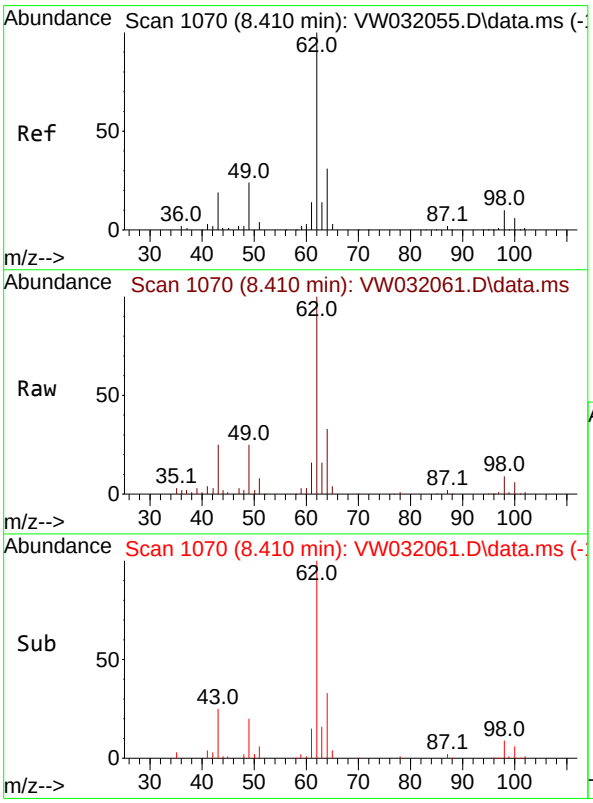
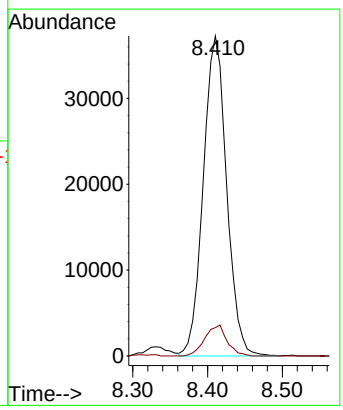
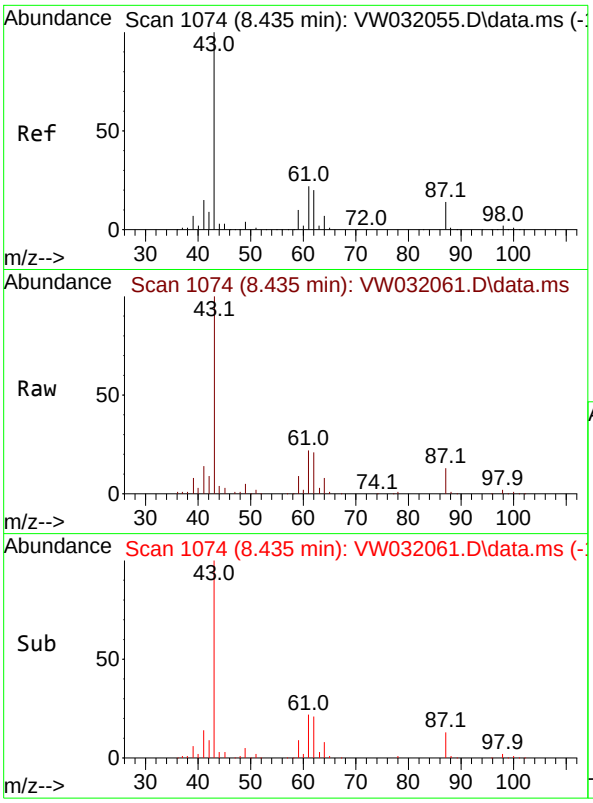


#42
1,2-Dichloroethane
Concen: 20.917 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 81049

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.8

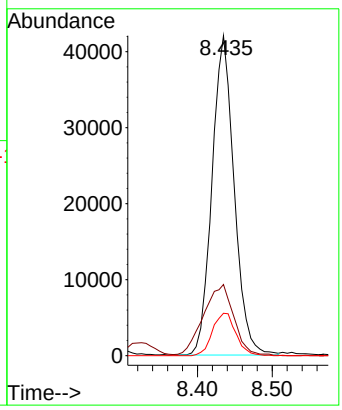




#43
Isopropyl Acetate
Concen: 20.509 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 8657

Ion	Ratio	Lower	Upper
43	100		
61	30.6	23.8	35.8
87	14.1	11.7	17.5



Instrument :
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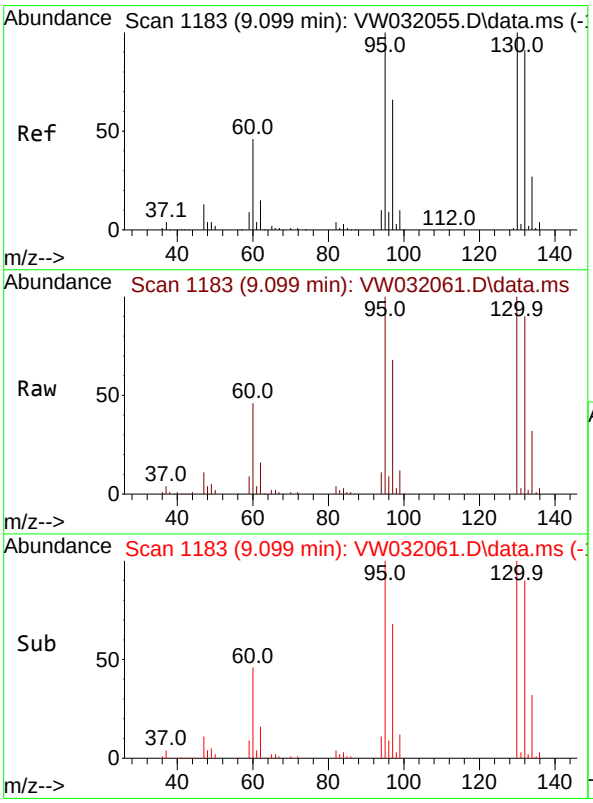
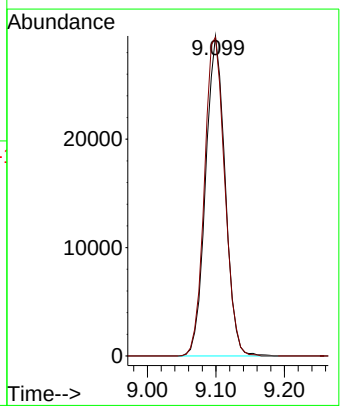
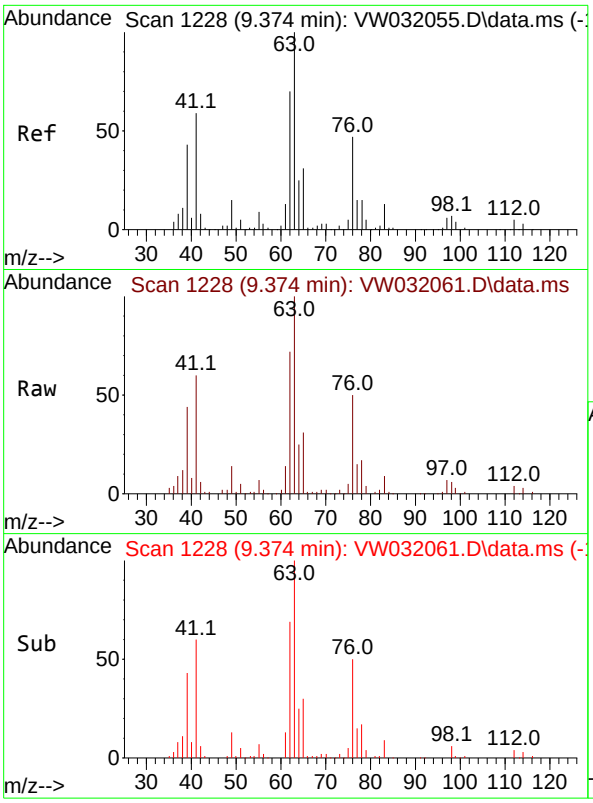


#44
Trichloroethene
Concen: 20.238 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:130 Resp: 58362

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	200.6

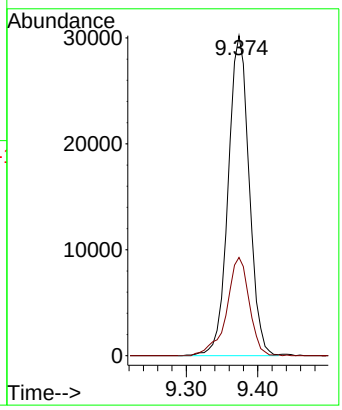




#45
1,2-Dichloropropane
Concen: 20.998 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 6143

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	36.8



Instrument :
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ClientSampleId :
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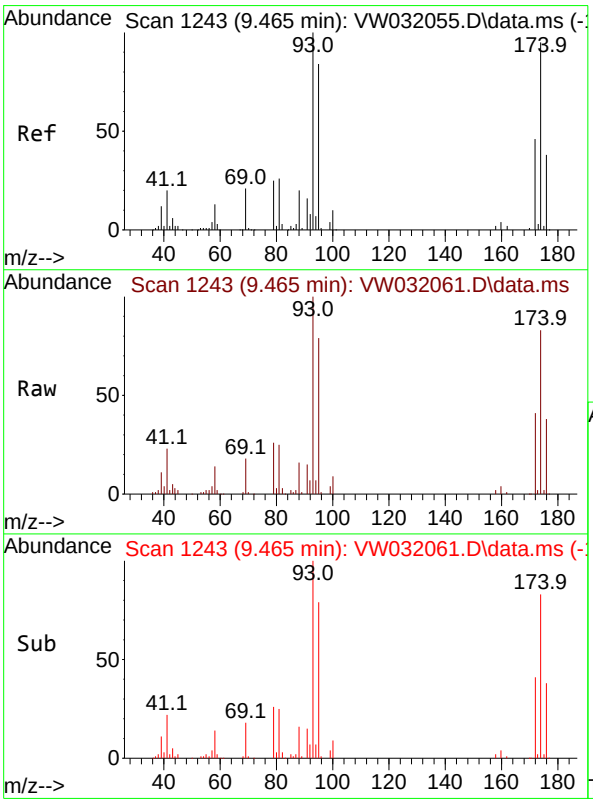
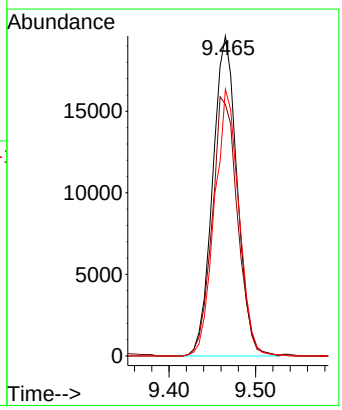
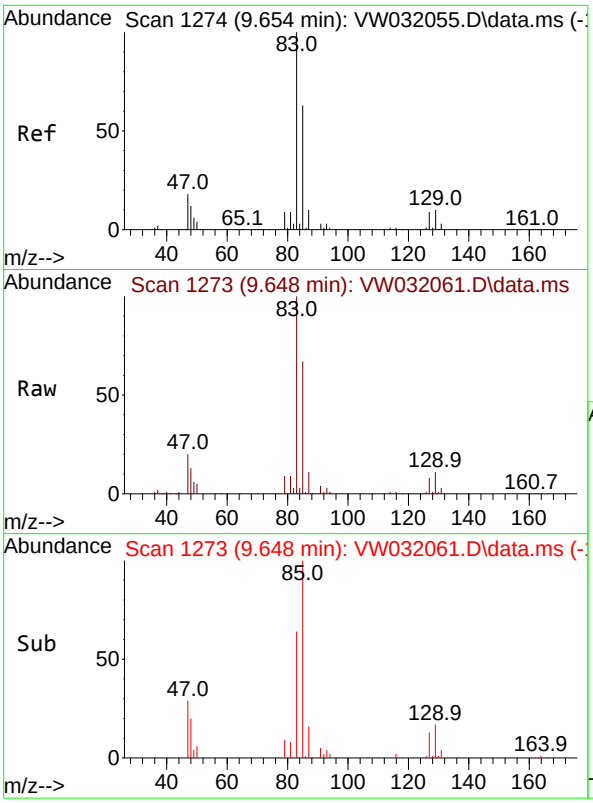


#46
Dibromomethane
Concen: 20.389 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 93 Resp: 38496

Ion	Ratio	Lower	Upper
93	100		
95	84.1	65.3	97.9
174	82.6	68.6	102.8

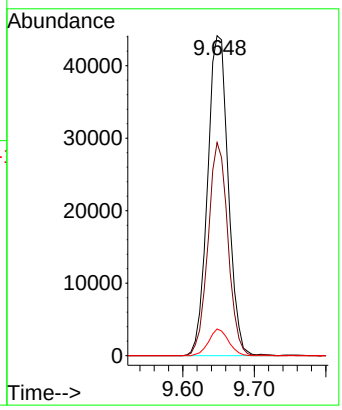




#47
Bromodichloromethane
Concen: 20.356 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 8856

Ion	Ratio	Lower	Upper
83	100		
85	66.6	50.6	75.8
127	8.4	6.9	10.3



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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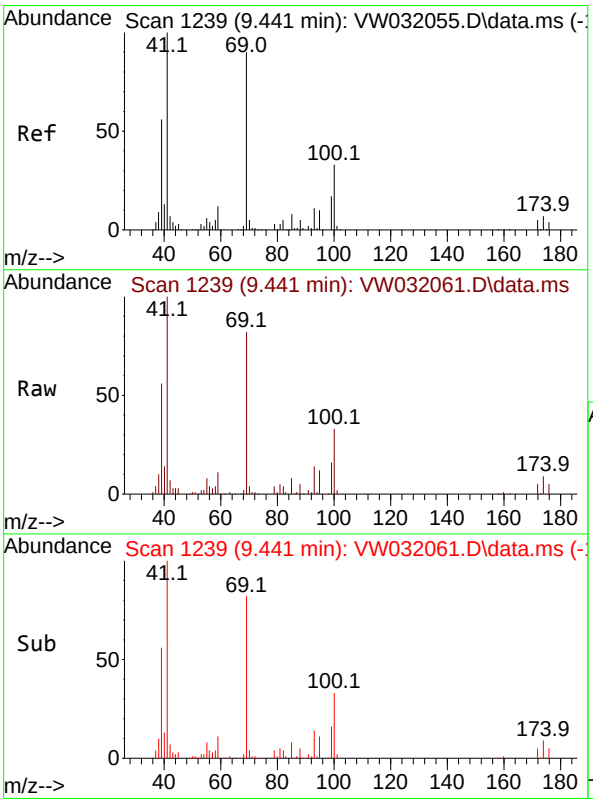
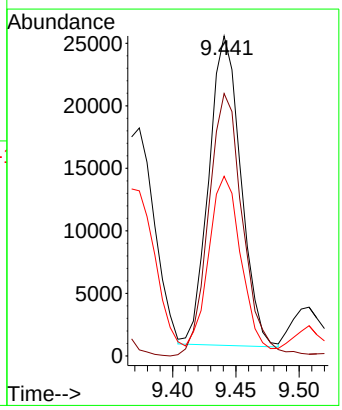
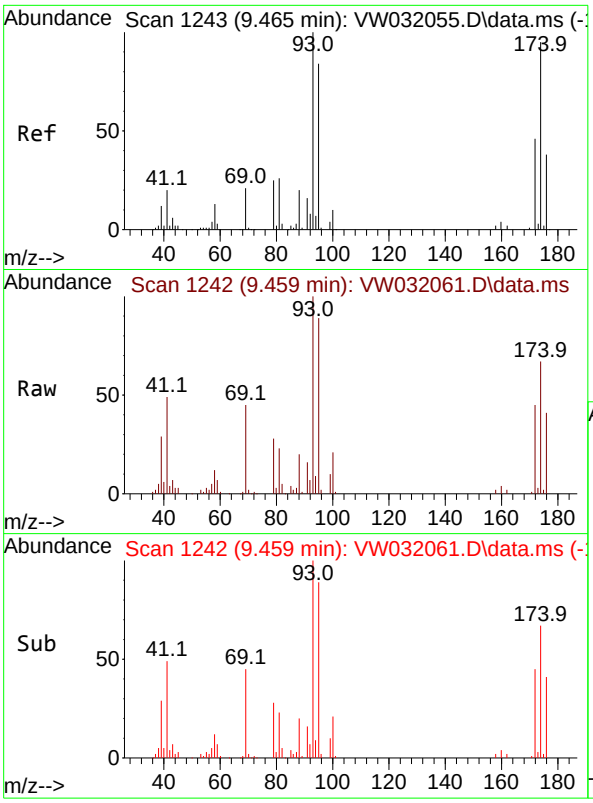


#48
Methyl methacrylate
Concen: 21.354 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 43518

Ion	Ratio	Lower	Upper
41	100		
69	90.8	73.0	109.6
39	59.7	45.0	67.4





#49
1,4-Dioxane
Concen: 397.829 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 88 Resp: 971

Ion	Ratio	Lower	Upper
88	100		
43	24.9	20.6	30.8
58	78.3	60.4	90.6

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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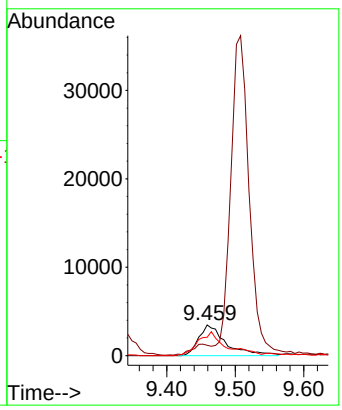
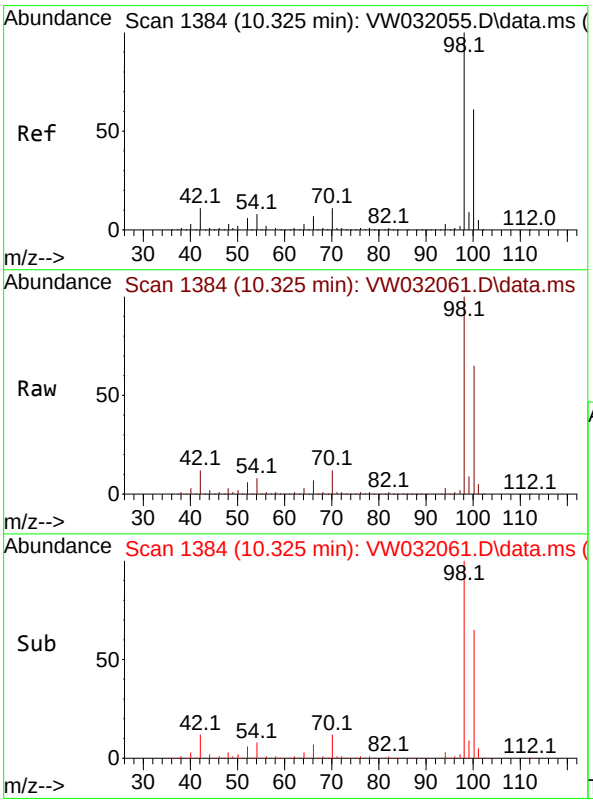
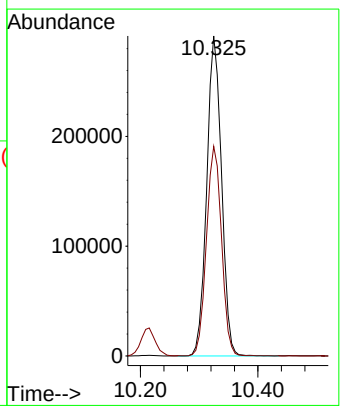


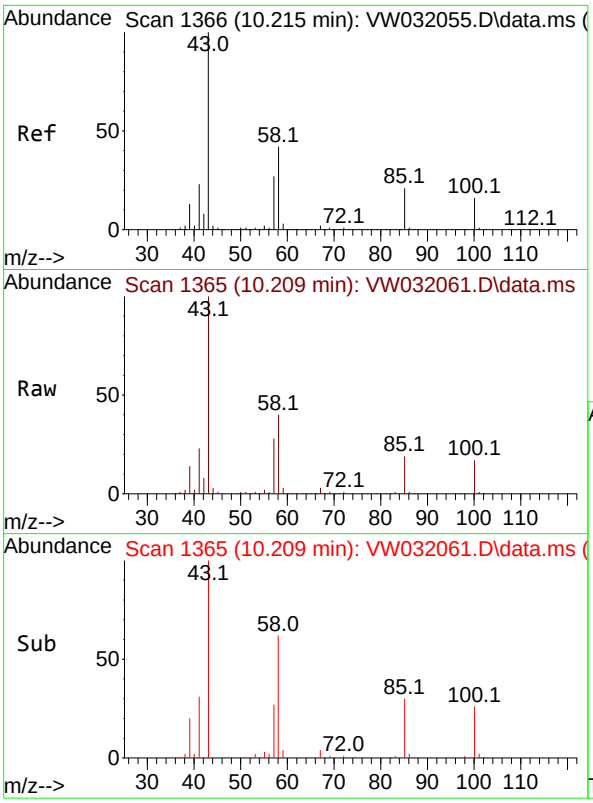


#50
Toluene-d8
Concen: 49.765 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 98 Resp: 508647

Ion	Ratio	Lower	Upper
98	100		
100	66.6	51.1	76.7

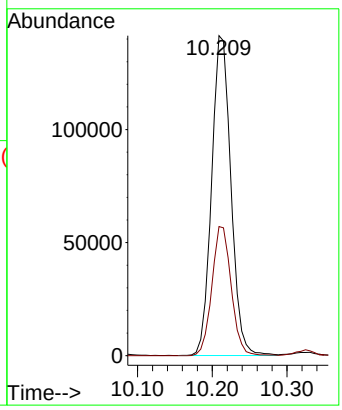




#51
4-Methyl-2-Pentanone
Concen: 106.423 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 25356

Ion	Ratio	Lower	Upper
43	100		
58	40.5	33.1	49.7



Instrument :
MSVOA_W
ClientSampleId :
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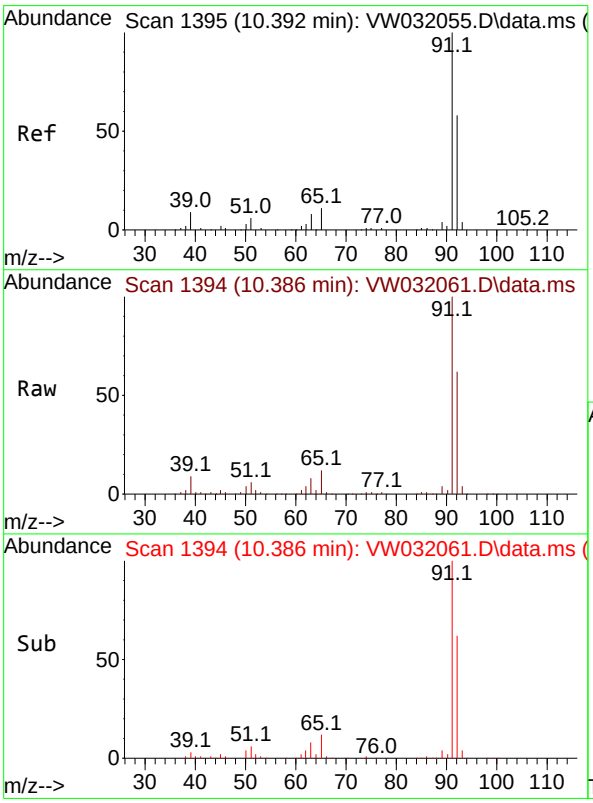
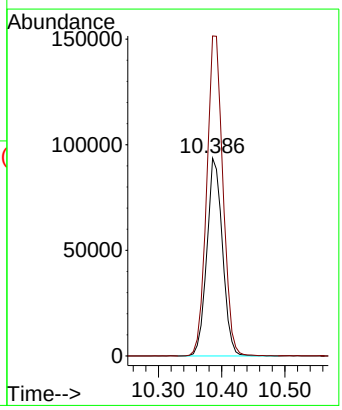
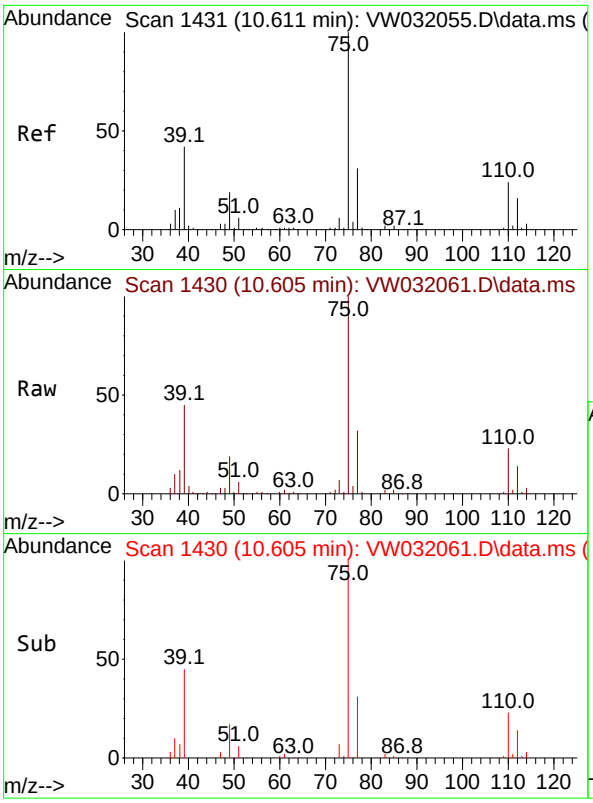


#52
Toluene
Concen: 21.039 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 92 Resp: 160474

Ion	Ratio	Lower	Upper
92	100		
91	168.1	136.3	204.5

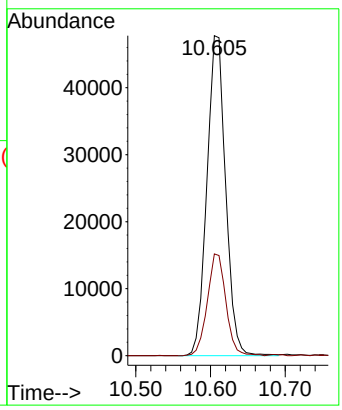




#53
t-1,3-Dichloropropene
Concen: 20.387 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 8309

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.6



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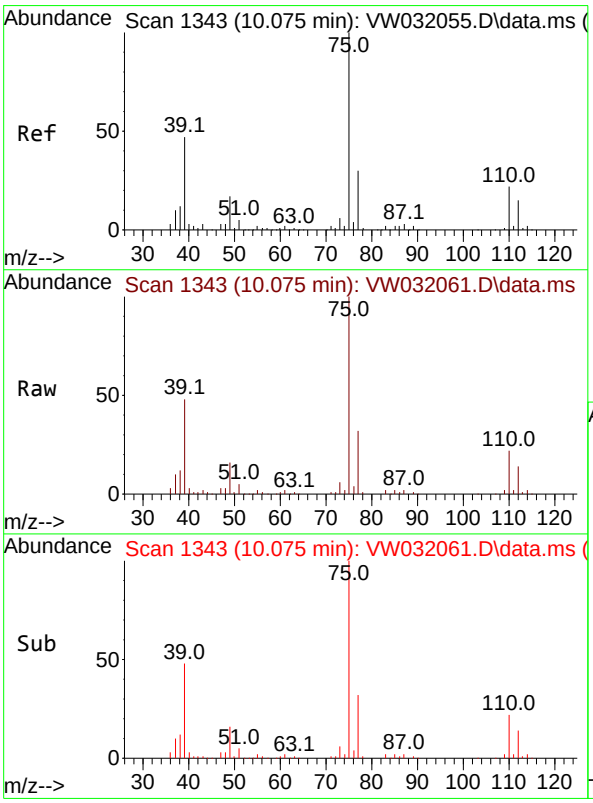
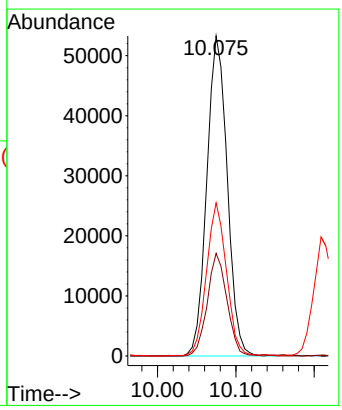
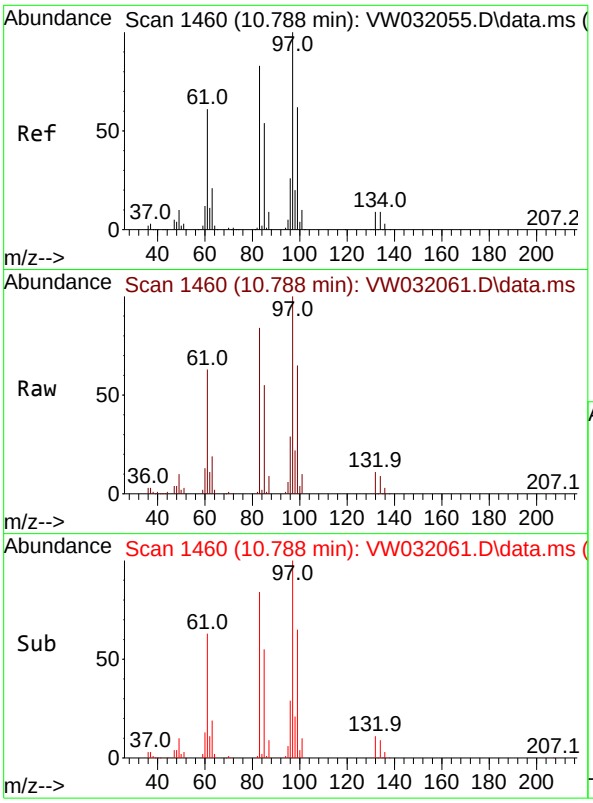


#54
cis-1,3-Dichloropropene
Concen: 20.866 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 96489

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	47.7	37.8	56.8

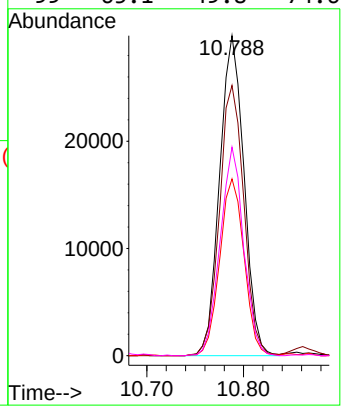




#55
1,1,2-Trichloroethane
Concen: 20.771 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 97 Resp: 5211

Ion	Ratio	Lower	Upper
97	100		
83	84.4	66.4	99.6
85	55.2	43.1	64.7
99	65.1	49.8	74.6



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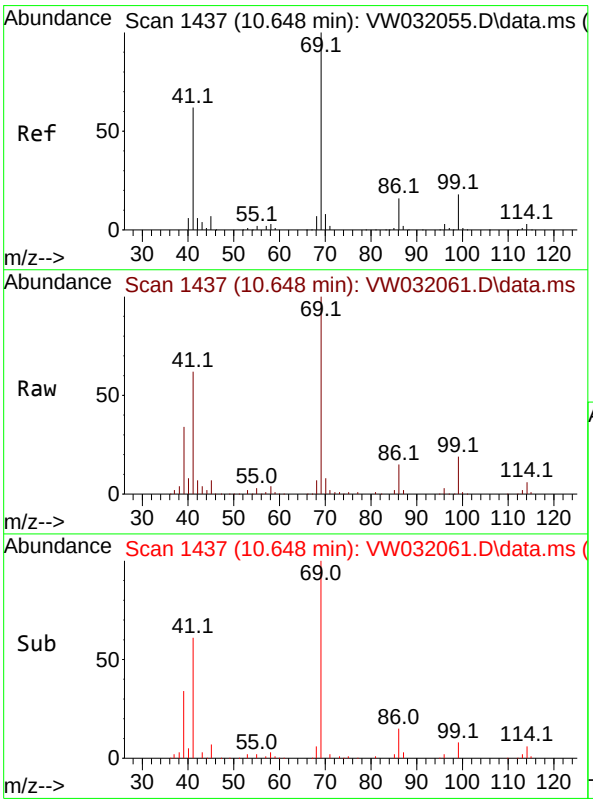
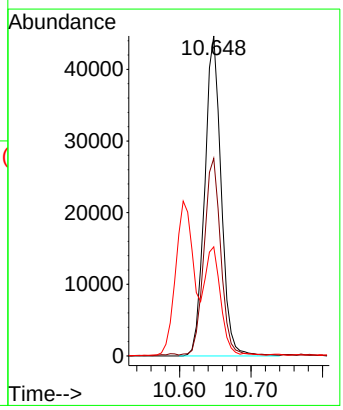
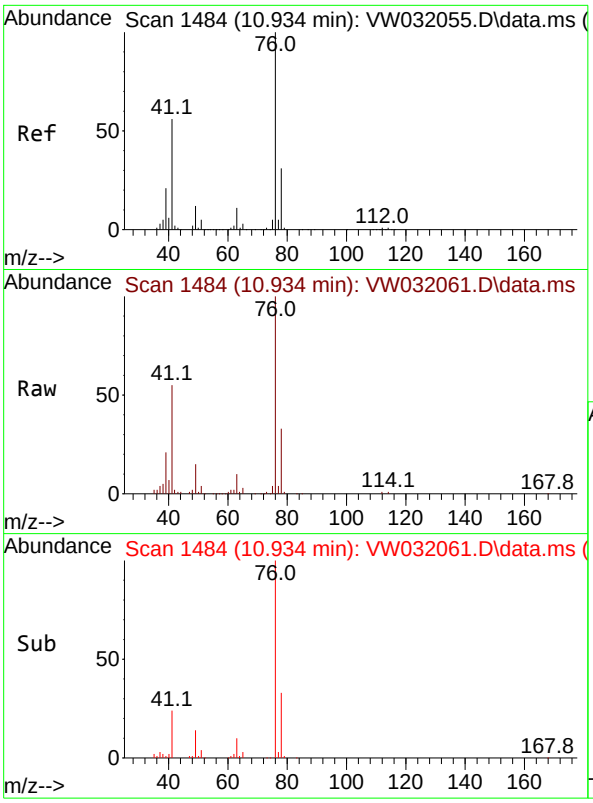


#56
Ethyl methacrylate
Concen: 21.293 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 69 Resp: 71491

Ion	Ratio	Lower	Upper
69	100		
41	62.3	51.2	76.8
39	31.8	25.4	38.0

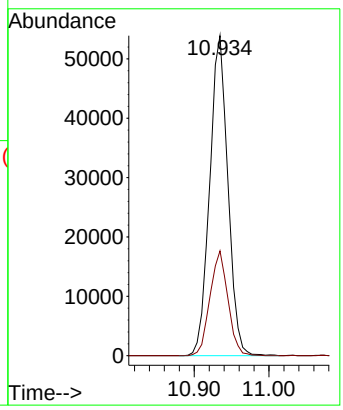




#57
1,3-Dichloropropane
Concen: 20.874 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 76 Resp: 9128

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6



Instrument :
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ClientSampleId :
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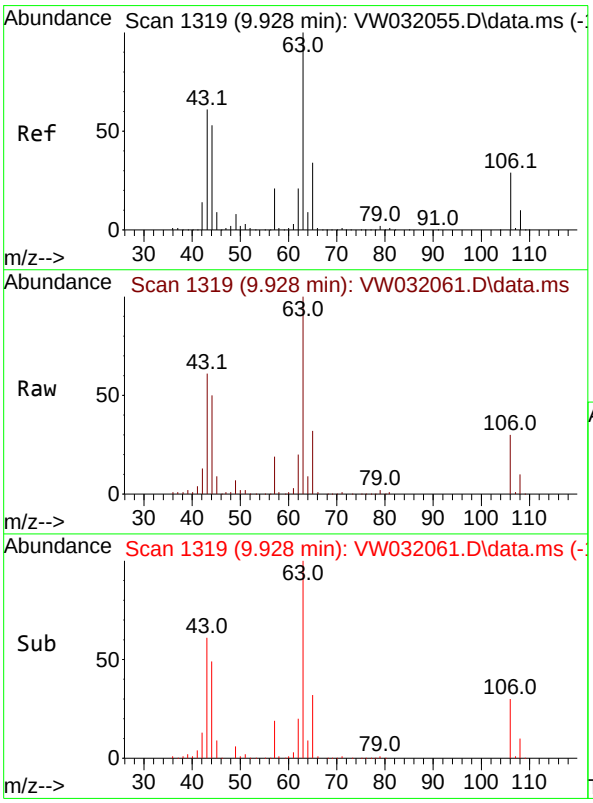
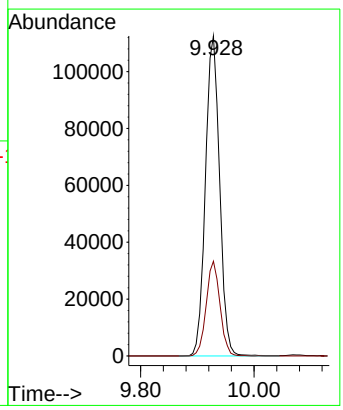
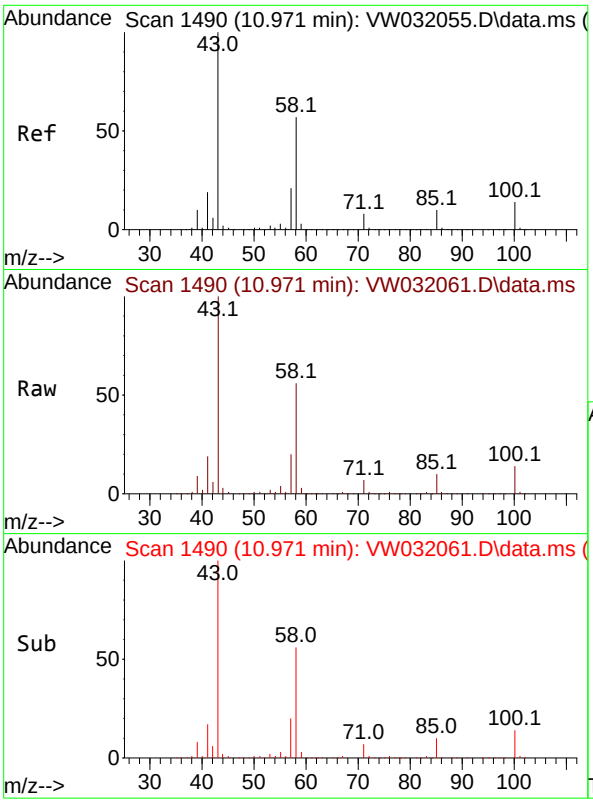


#58
2-Chloroethyl Vinyl ether
Concen: 105.002 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 195002

Ion	Ratio	Lower	Upper
63	100		
106	28.7	23.5	35.3

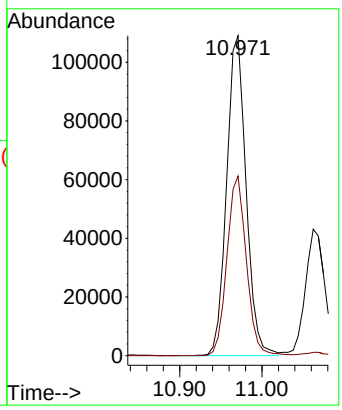




#59
2-Hexanone
Concen: 108.432 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 17892

Ion	Ratio	Lower	Upper
43	100		
58	56.2	28.3	85.0



Instrument :
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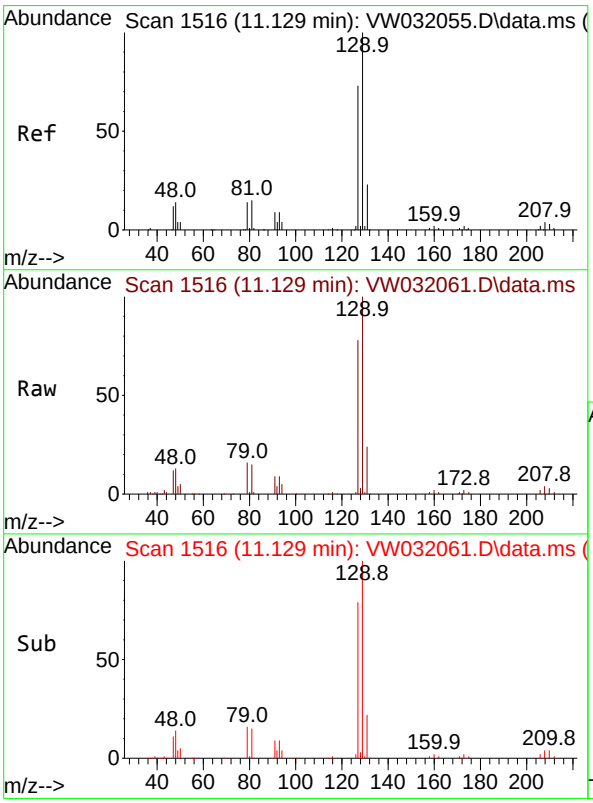
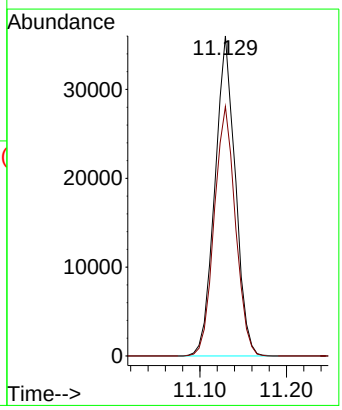
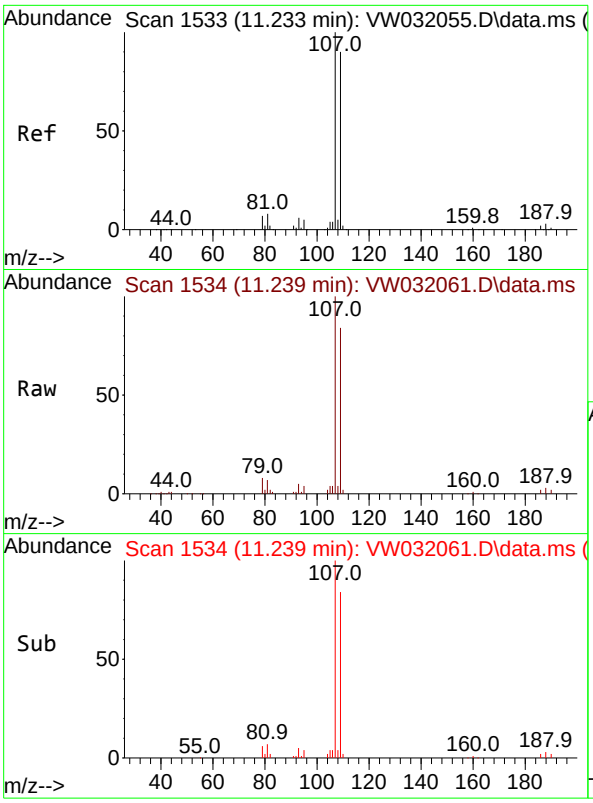


#60
Dibromochloromethane
Concen: 20.578 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:129 Resp: 58977

Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.0	116.9





#61
1,2-Dibromoethane
Concen: 21.183 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:107 Resp: 5164

Ion	Ratio	Lower	Upper
107	100		
109	93.1	74.2	111.4

Instrument :
MSVOA_W
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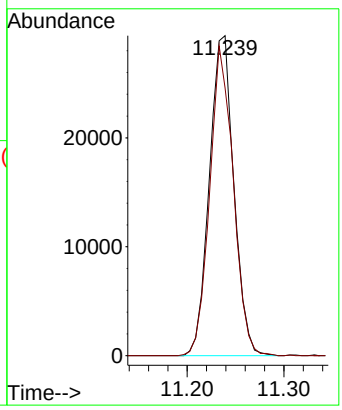
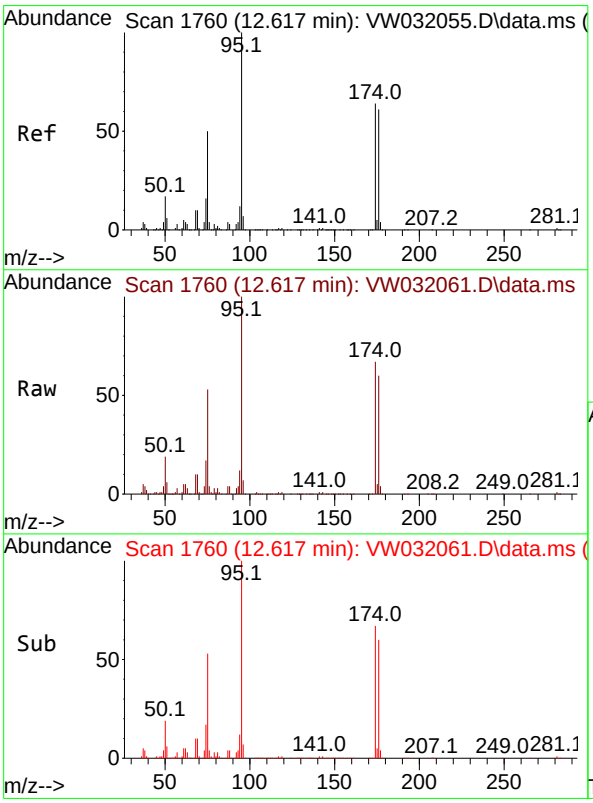
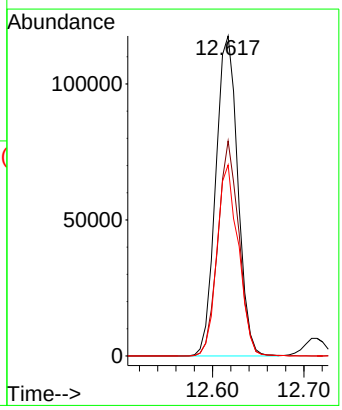


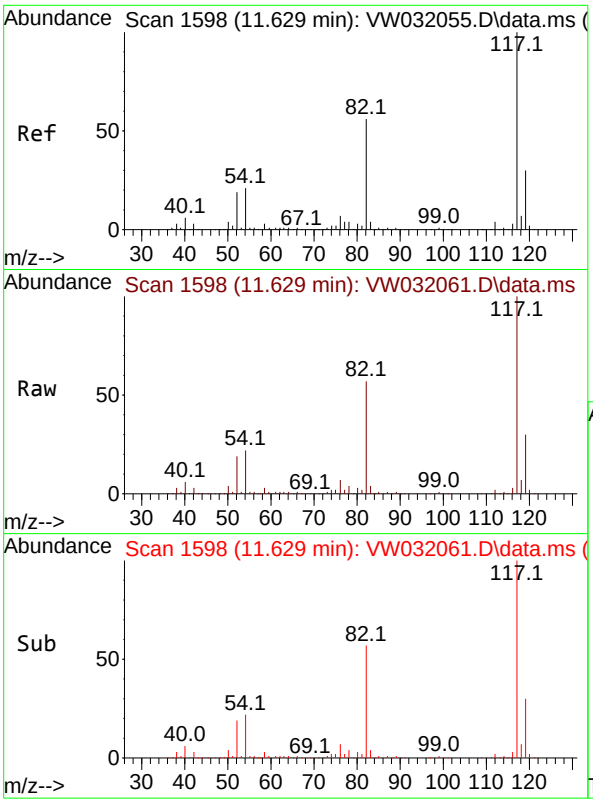


#62
4-Bromofluorobenzene
Concen: 52.373 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 95 Resp: 197267

Ion	Ratio	Lower	Upper
95	100		
174	63.9	0.0	129.0
176	58.2	0.0	124.6

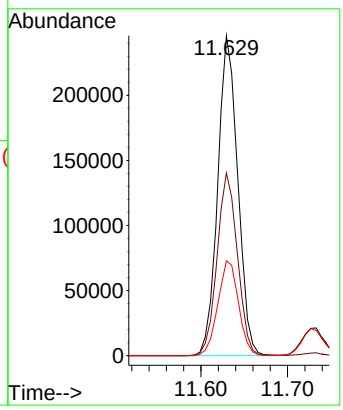




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 39482

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.0	67.4
119	29.7	24.2	36.4



Instrument :
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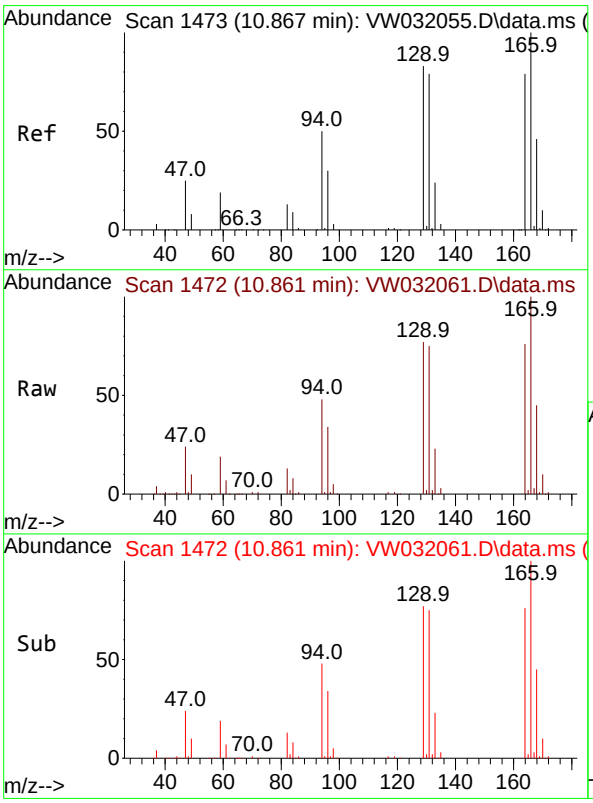
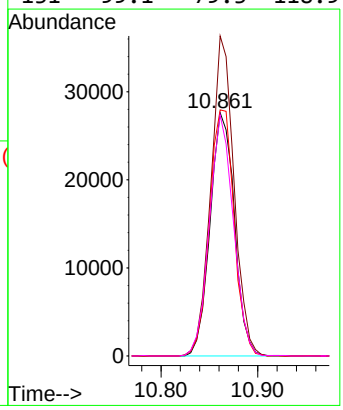
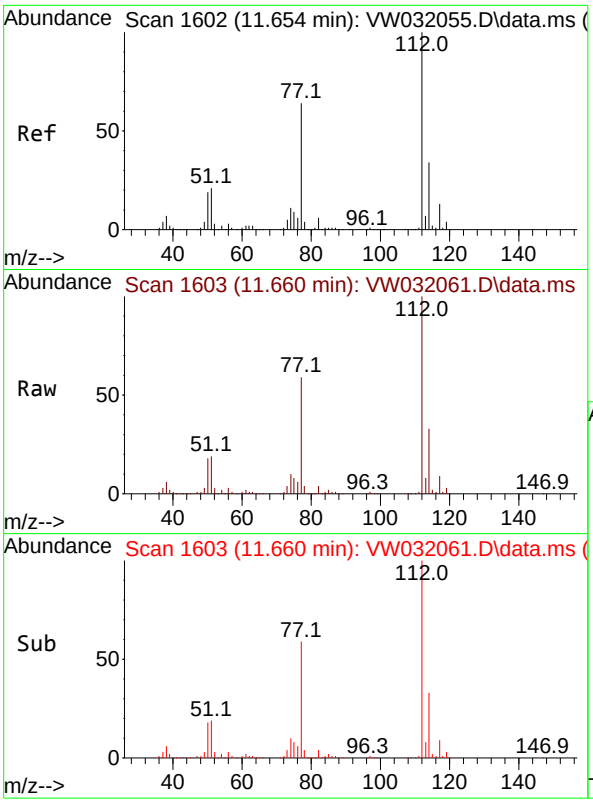


#64
Tetrachloroethene
Concen: 21.074 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:164 Resp: 48059

Ion	Ratio	Lower	Upper
164	100		
166	131.6	100.9	151.3
129	101.2	83.6	125.4
131	99.1	79.3	118.9

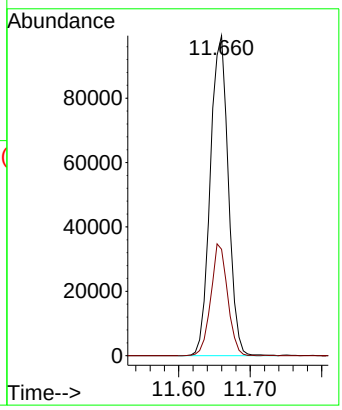




#65
Chlorobenzene
Concen: 20.189 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:112 Resp: 17349

Ion	Ratio	Lower	Upper
112	100		
114	33.2	26.9	40.3



Instrument :
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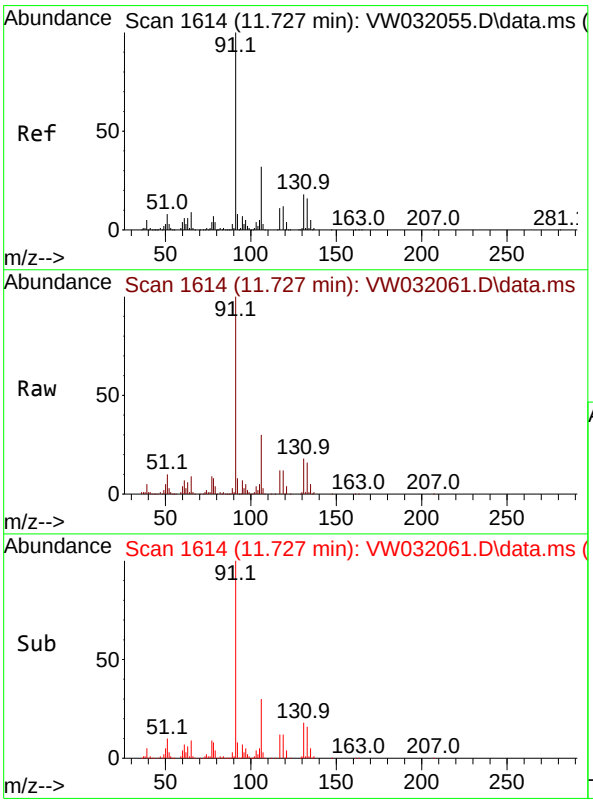
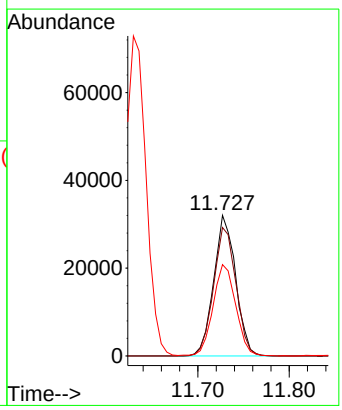
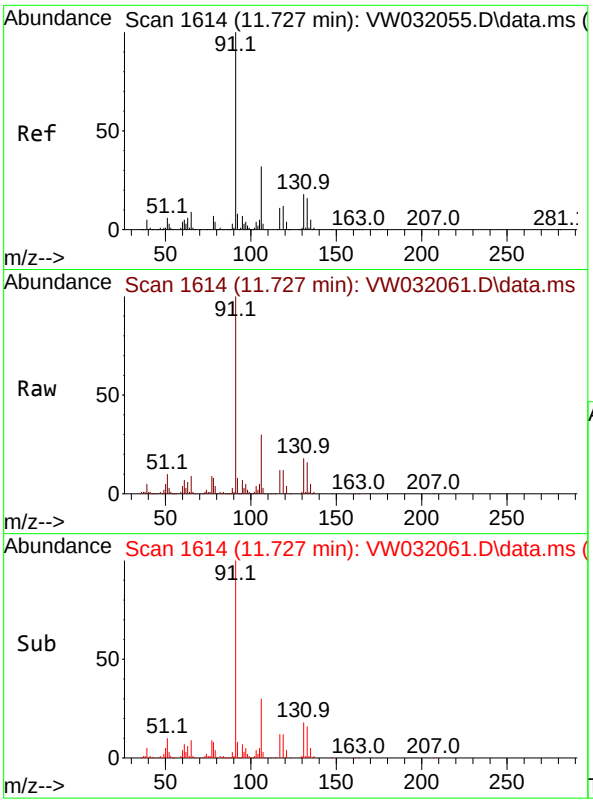


#66
1,1,1,2-Tetrachloroethane
Concen: 19.910 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:131 Resp: 53383

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	67.5	34.5	103.5

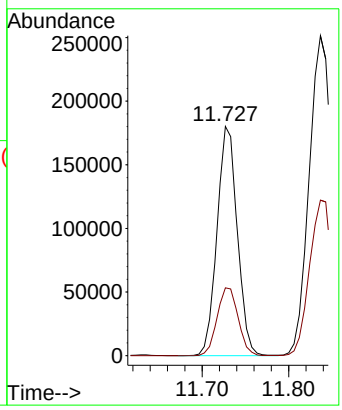




#67
Ethyl Benzene
Concen: 20.129 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 29301

Ion	Ratio	Lower	Upper
91	100		
106	29.6	25.4	38.0



Instrument :
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ClientSampleId :
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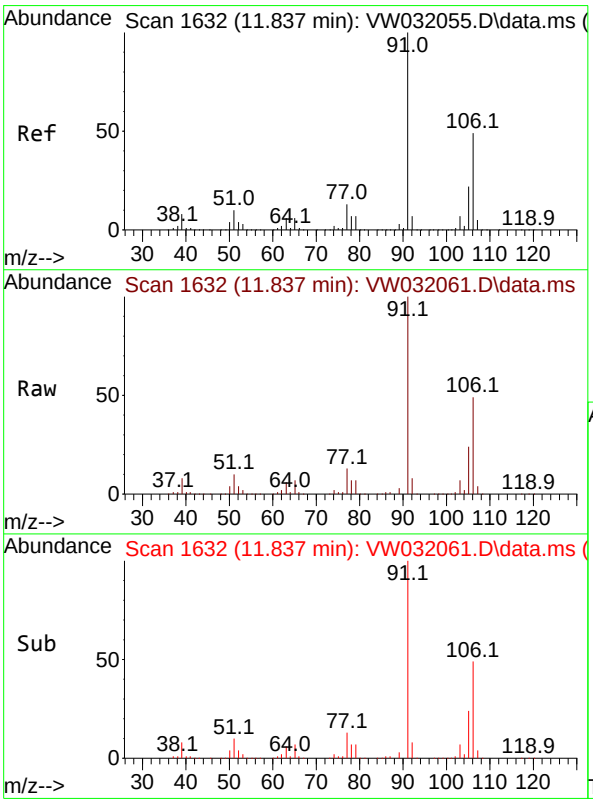
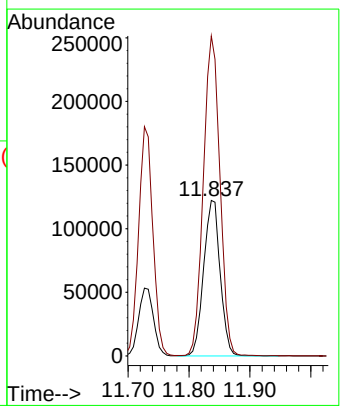
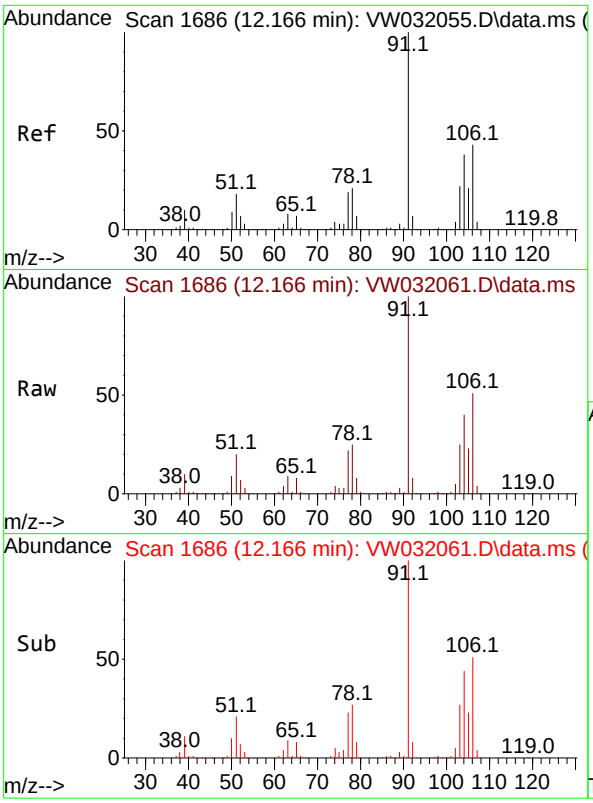


#68
m/p-Xylenes
Concen: 40.901 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:106 Resp: 229740

Ion	Ratio	Lower	Upper
106	100		
91	206.5	162.2	243.2





#69
o-Xylene
Concen: 21.194 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:106 Resp: 11003

Ion	Ratio	Lower	Upper
106	100		
91	214.2	110.8	332.3

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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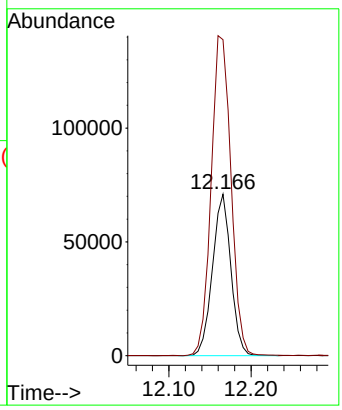
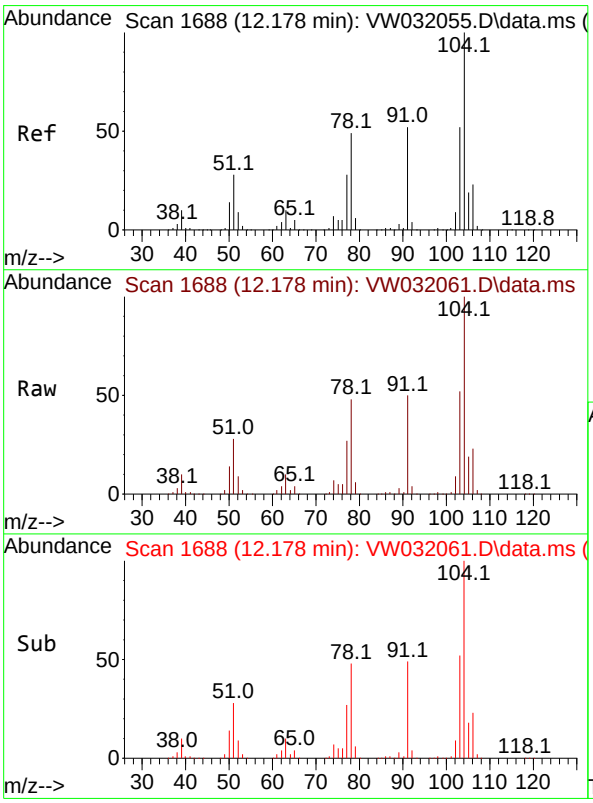
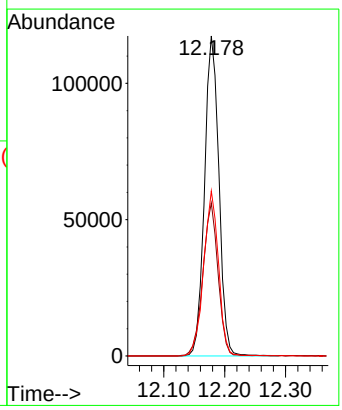


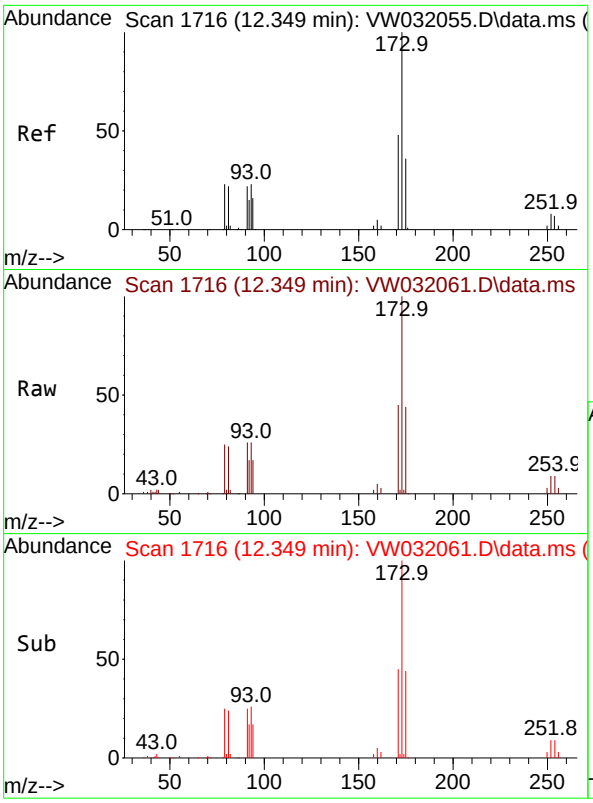


#70
Styrene
Concen: 20.893 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:104 Resp: 192666

Ion	Ratio	Lower	Upper
104	100		
78	50.5	41.2	61.8
103	53.3	43.8	65.8

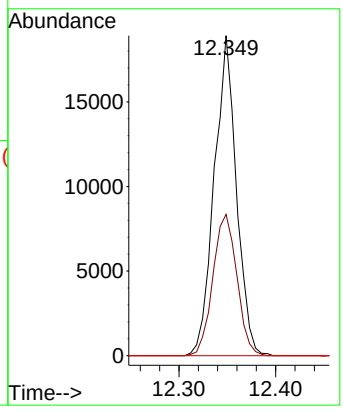




#71
Bromoform
Concen: 19.630 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:173 Resp: 3010

Ion	Ratio	Lower	Upper
173	100		
175	47.7	22.9	68.7
254	0.0	0.0	0.0



Instrument :
MSVOA_W
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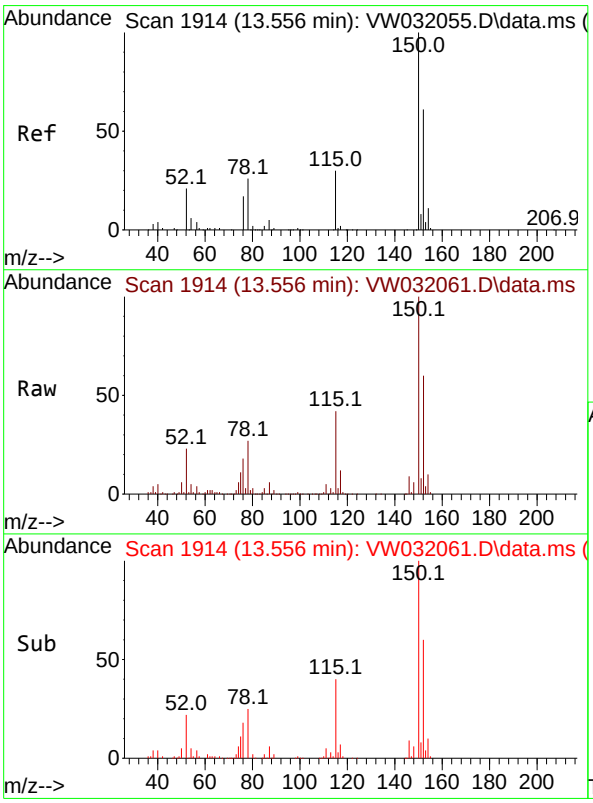
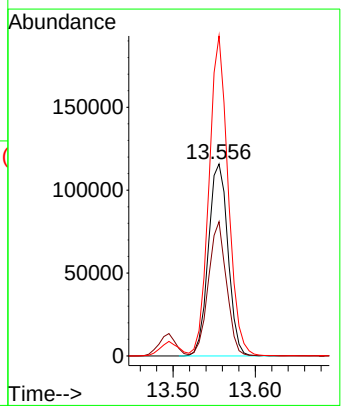
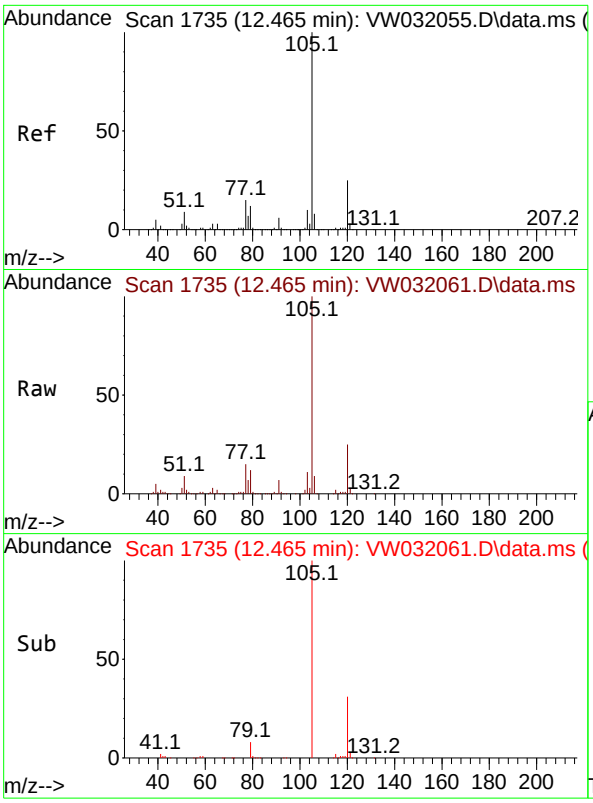


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:152 Resp: 191594

Ion	Ratio	Lower	Upper
152	100		
115	65.1	32.6	97.8
150	162.6	0.0	359.4

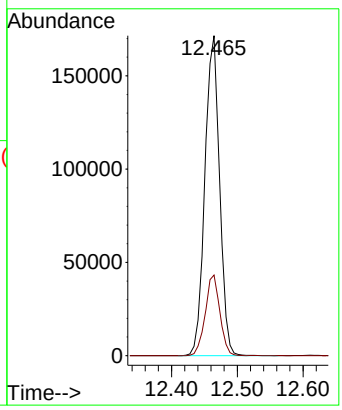




#73
Isopropylbenzene
Concen: 19.925 ug/l
RT: 12.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 26679

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4



Instrument :
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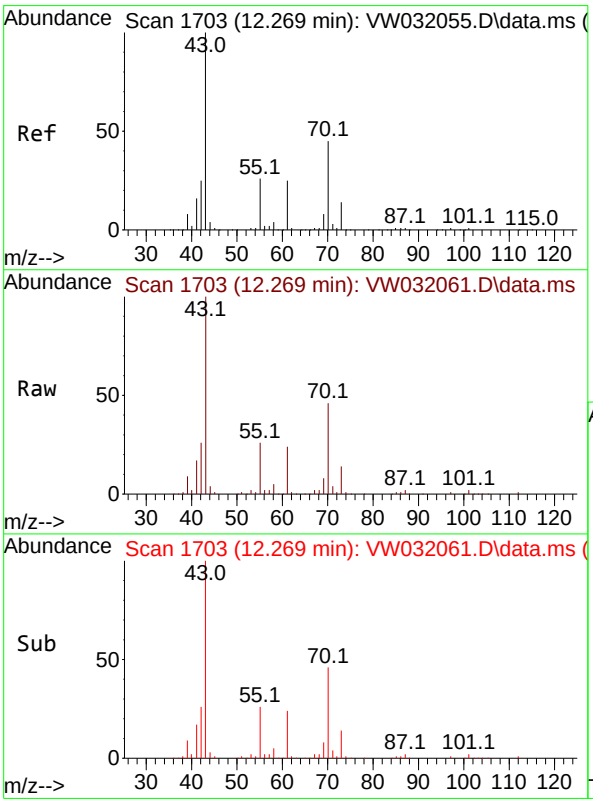
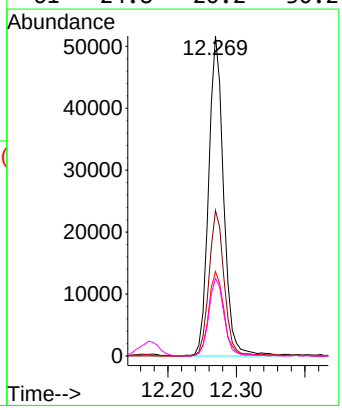
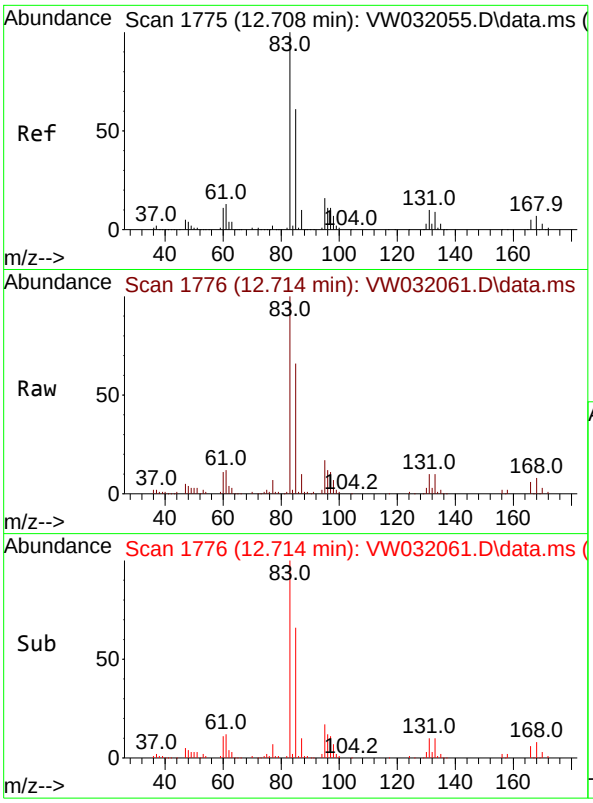


#74
N-amyl acetate
Concen: 20.526 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 78852

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.0	55.4
55	27.3	21.1	31.7
61	24.8	20.2	30.2

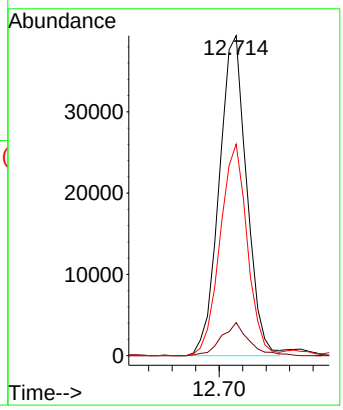




#75
1,1,2,2-Tetrachloroethane
Concen: 20.118 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 6395

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	65.4	32.2	96.6



Instrument :
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ClientSampleId :
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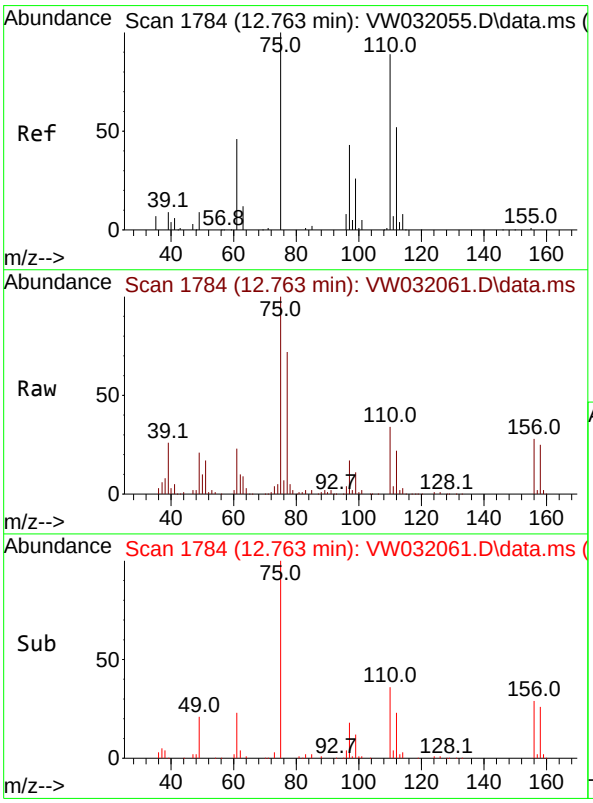
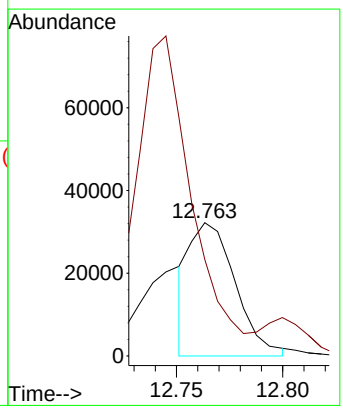
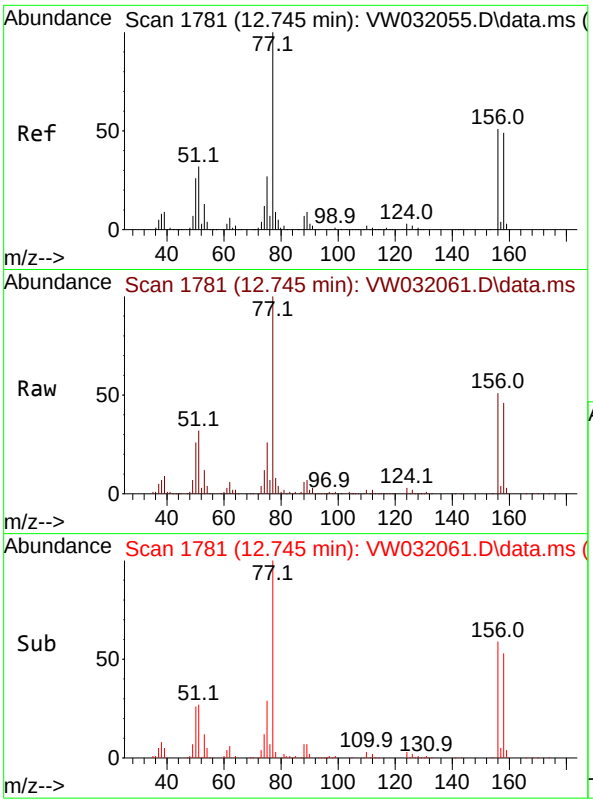


#76
1,2,3-Trichloropropane
Concen: 18.605 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 48380

Ion	Ratio	Lower	Upper
75	100		
77	291.7	123.5	370.5

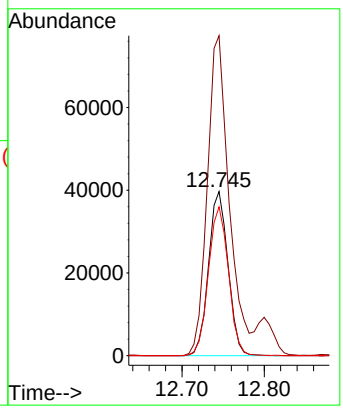




#77
Bromobenzene
Concen: 20.423 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:156 Resp: 6531

Ion	Ratio	Lower	Upper
156	100		
77	216.0	108.7	326.3
158	93.1	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
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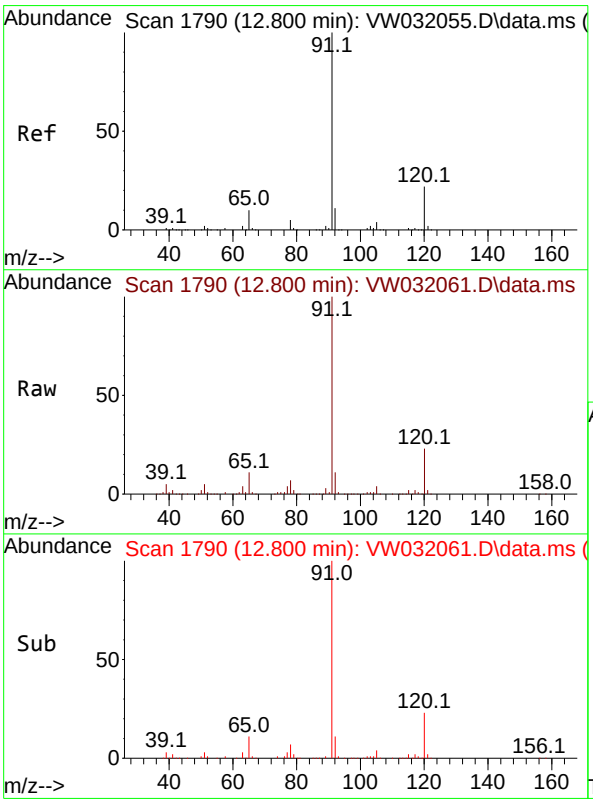
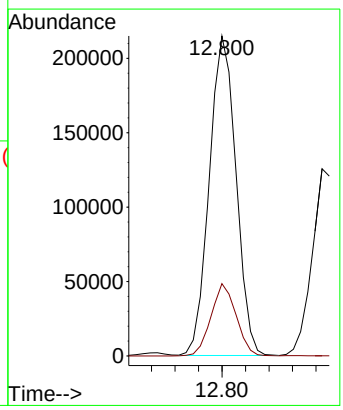
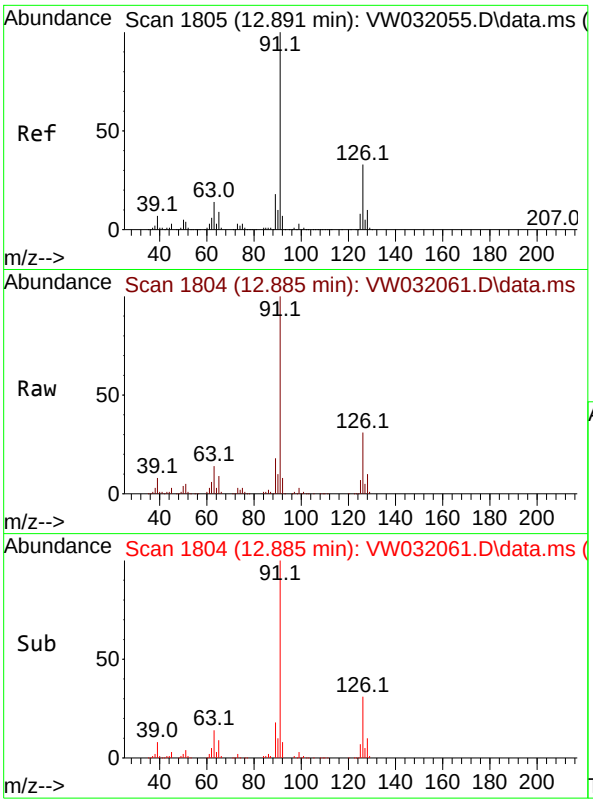


#78
n-propylbenzene
Concen: 20.616 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 339857

Ion	Ratio	Lower	Upper
91	100		
120	21.3	11.1	33.3

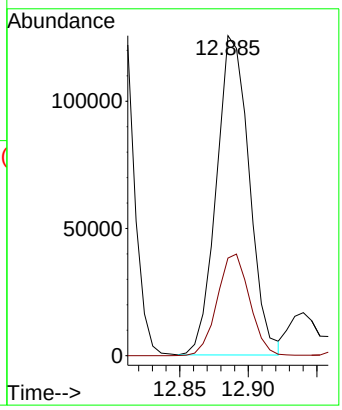




#79
2-Chlorotoluene
Concen: 20.570 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 20927

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.9	47.7



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

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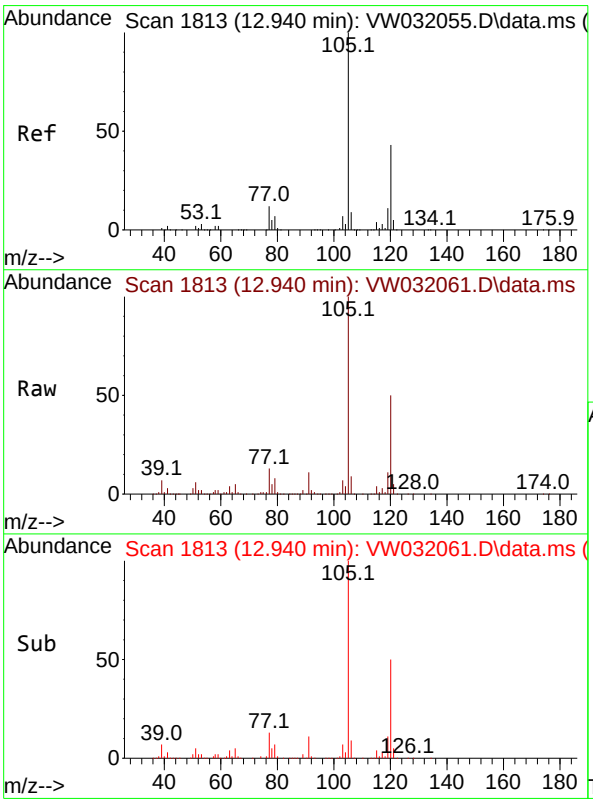
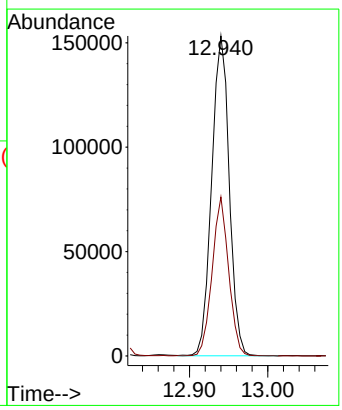
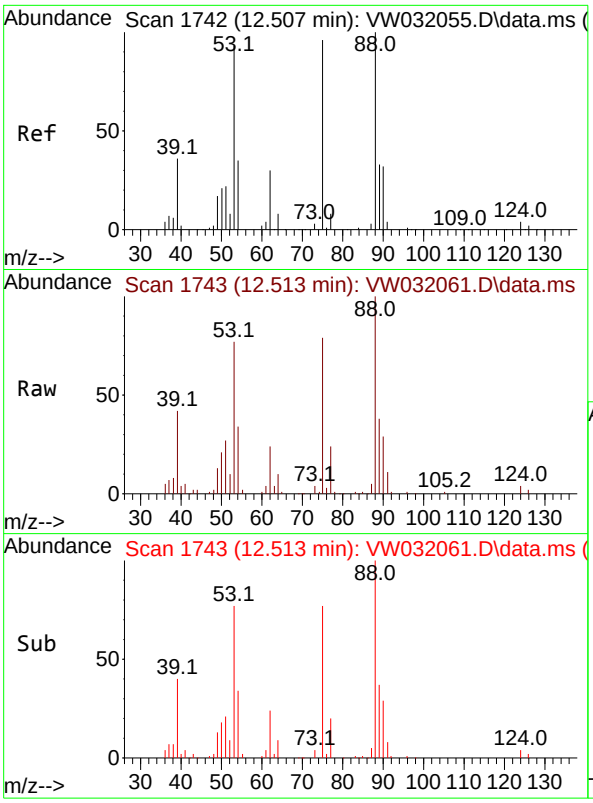


#80
1,3,5-Trimethylbenzene
Concen: 20.975 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 238429

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.4	70.0

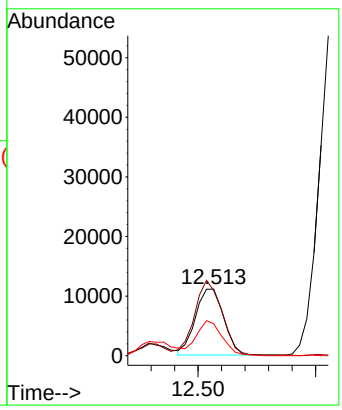




#81
trans-1,4-Dichloro-2-butene
Concen: 18.484 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 1856

Ion	Ratio	Lower	Upper
75	100		
53	113.2	81.0	121.6
89	47.5	37.3	55.9



Instrument :
MSVOA_W
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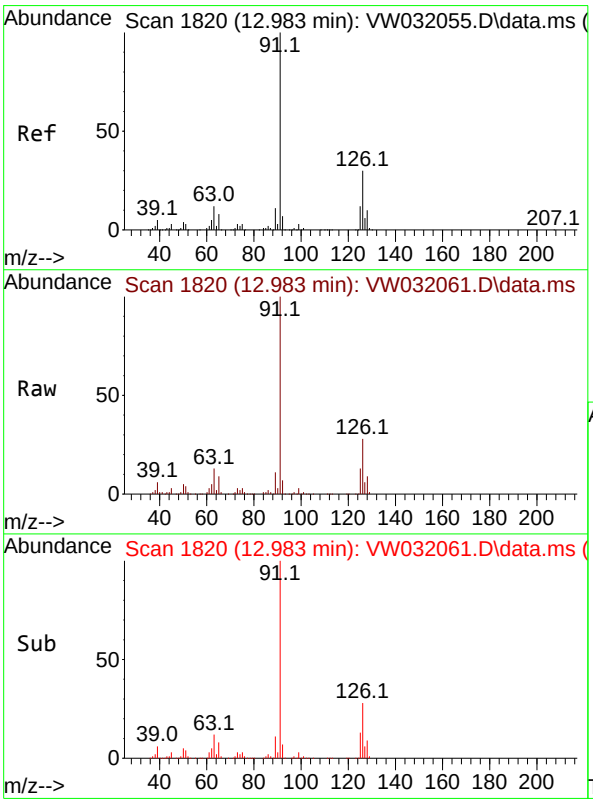
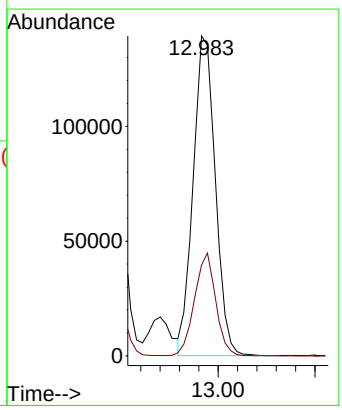
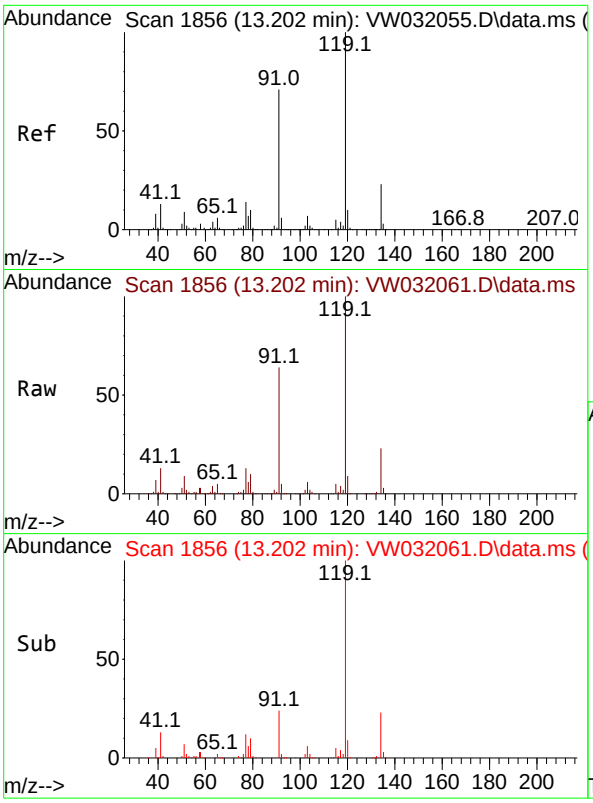


#82
4-Chlorotoluene
Concen: 20.547 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 222101

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.5	46.5

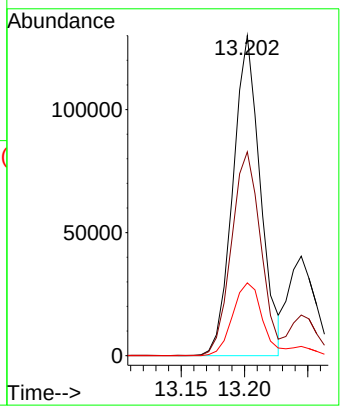




#83
tert-Butylbenzene
Concen: 20.817 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:119 Resp: 19639

Ion	Ratio	Lower	Upper
119	100		
91	67.6	35.3	105.9
134	24.6	12.1	36.3



Instrument :
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ClientSampleId :
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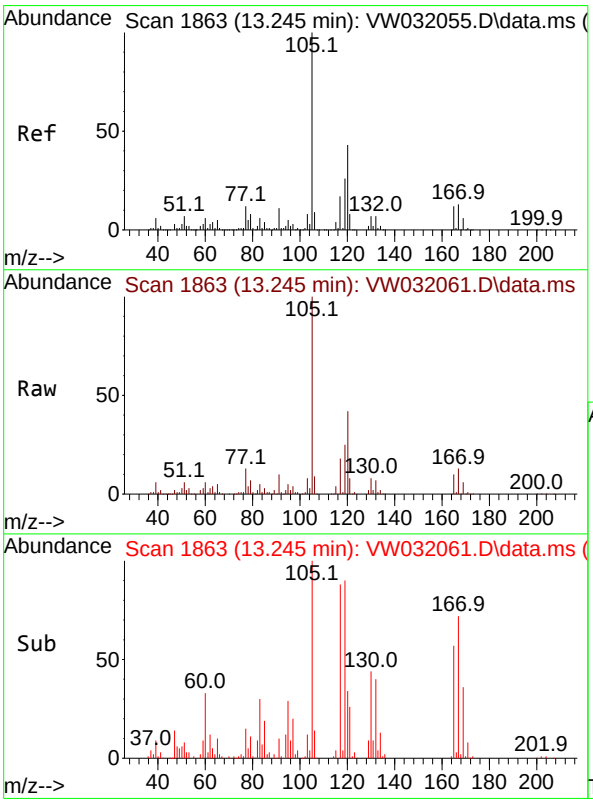
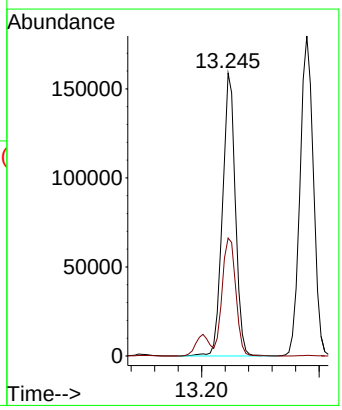
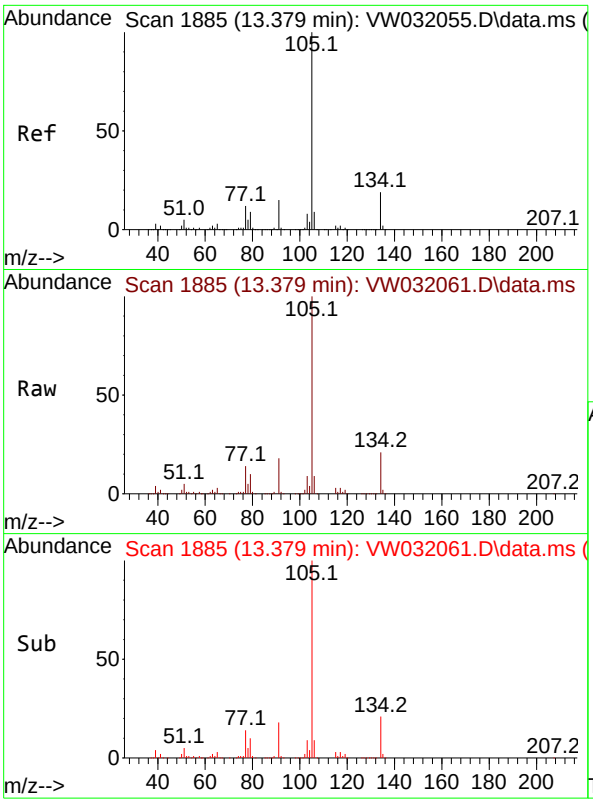


#84
1,2,4-Trimethylbenzene
Concen: 20.878 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 241596

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.6	64.8

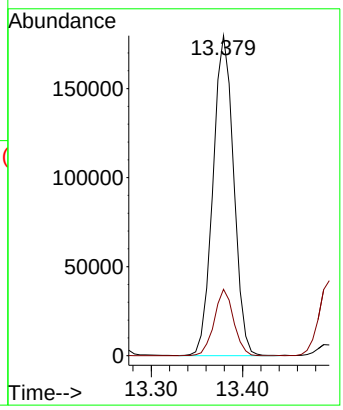




#85
sec-Butylbenzene
Concen: 19.818 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 28266

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.9	29.7



Instrument :
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ClientSampleId :
VW0811SBS01

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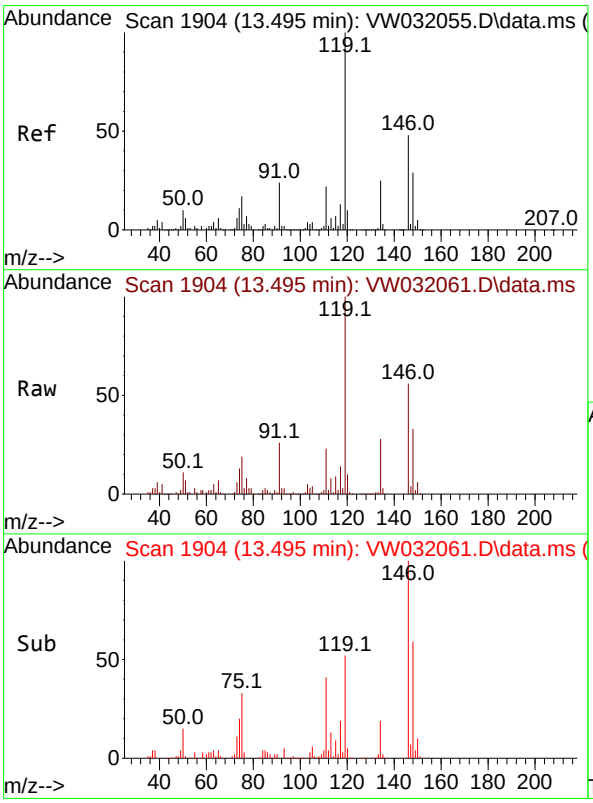
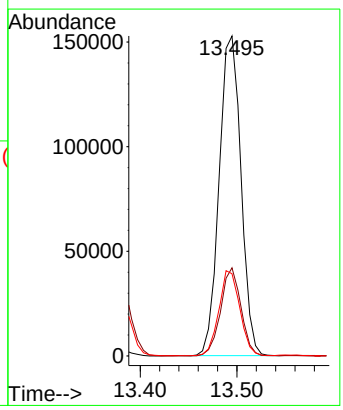
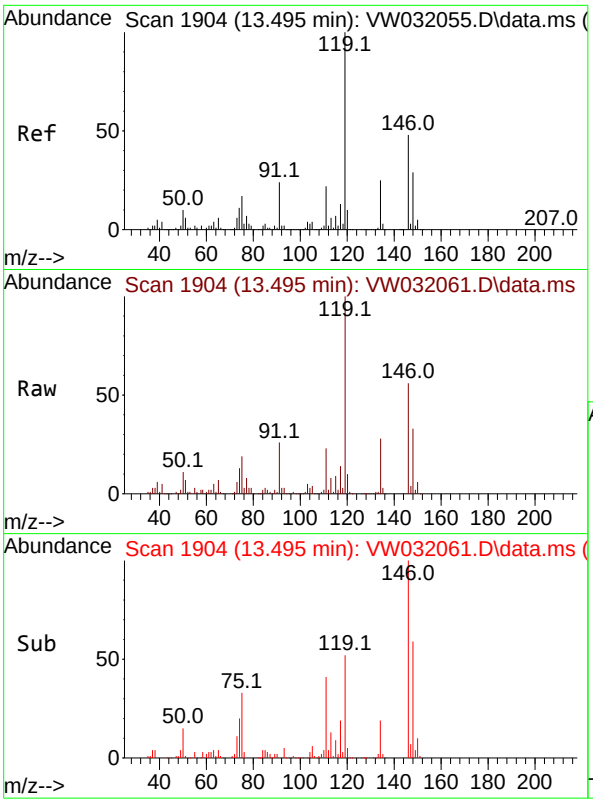


#86
p-Isopropyltoluene
Concen: 20.078 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:119 Resp: 238749

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.4	37.0
91	25.5	12.1	36.3

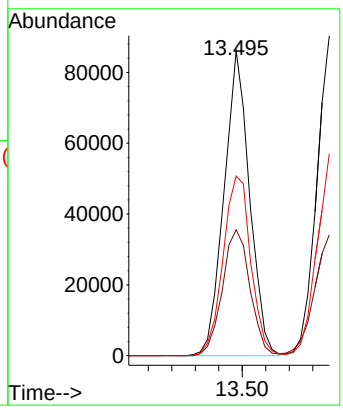




#87
1,3-Dichlorobenzene
Concen: 20.364 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 12958

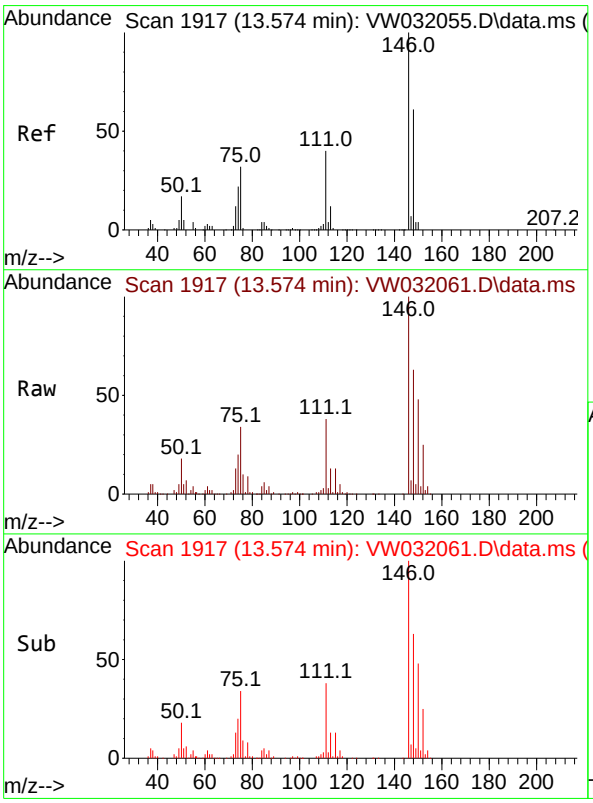
Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.2	63.6
148	64.2	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

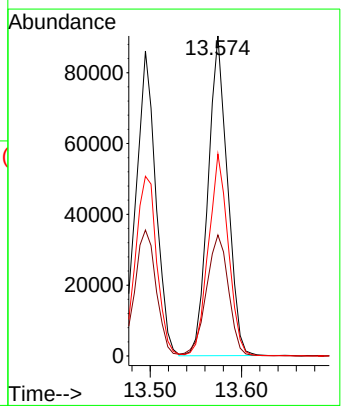
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

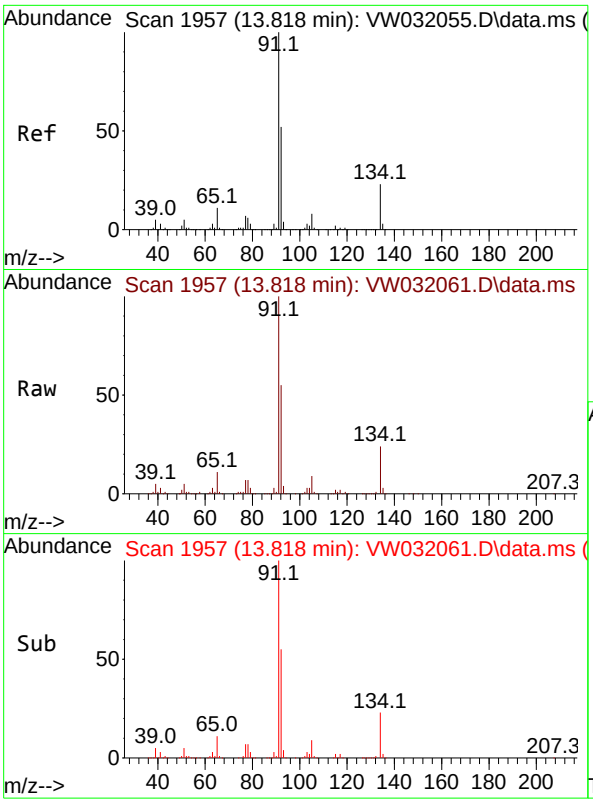


#88
1,4-Dichlorobenzene
Concen: 20.677 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 132968

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	64.6
148	64.6	32.0	96.2

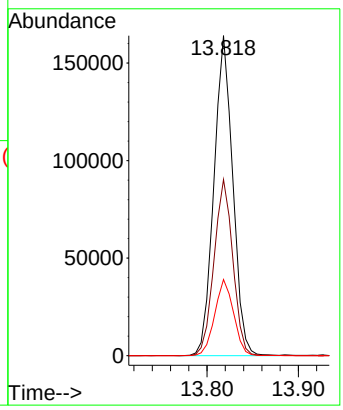




#89
n-Butylbenzene
Concen: 20.377 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 23539

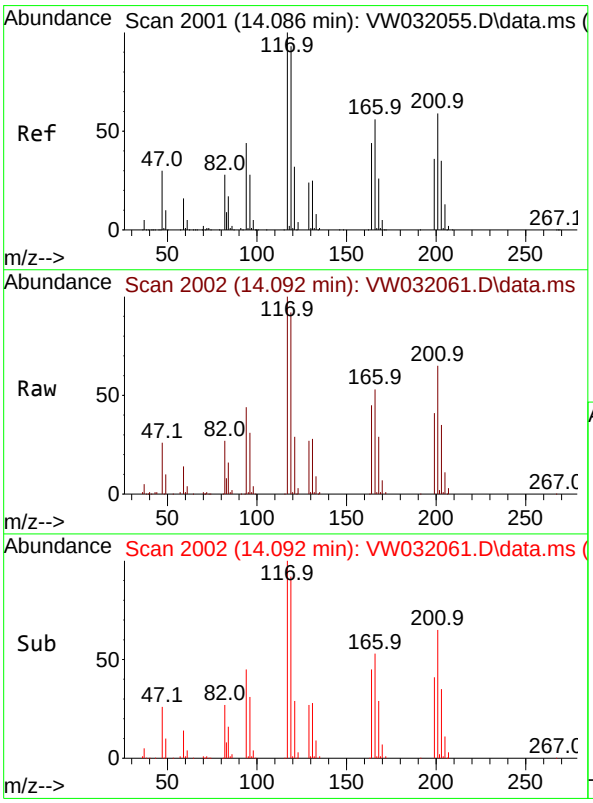
Ion	Ratio	Lower	Upper
91	100		
92	54.8	26.7	80.1
134	23.8	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

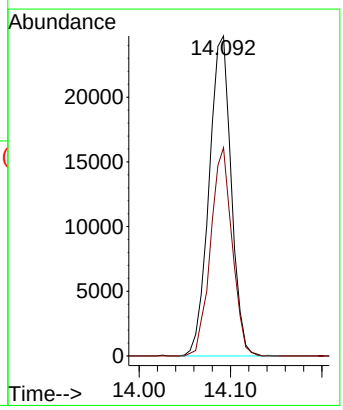
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

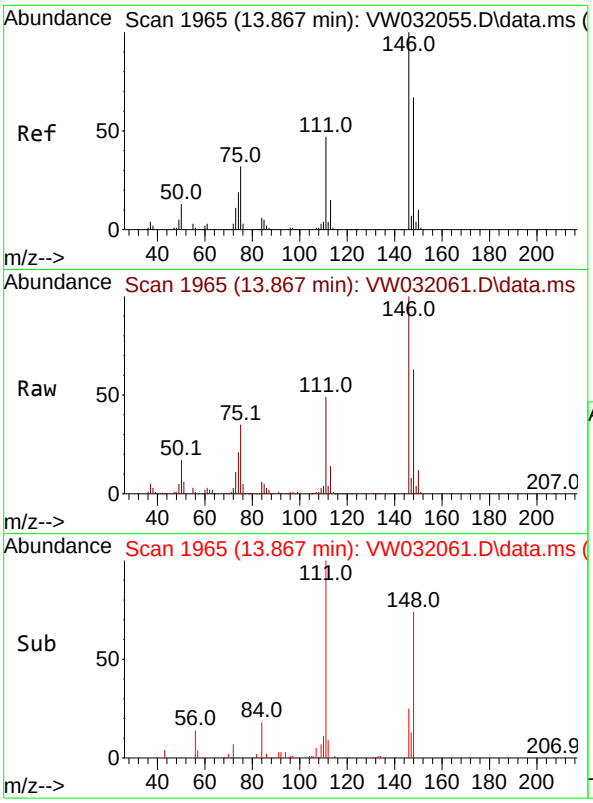


#90
Hexachloroethane
Concen: 19.094 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 41522

Ion	Ratio	Lower	Upper
117	100		
201	63.3	30.9	92.5

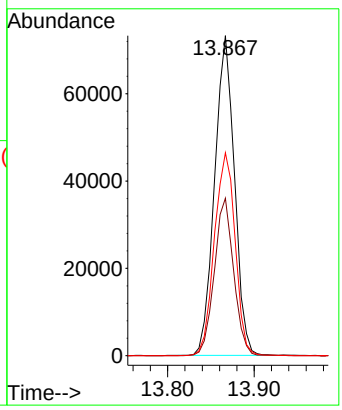




#91
1,2-Dichlorobenzene
Concen: 20.259 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 11678

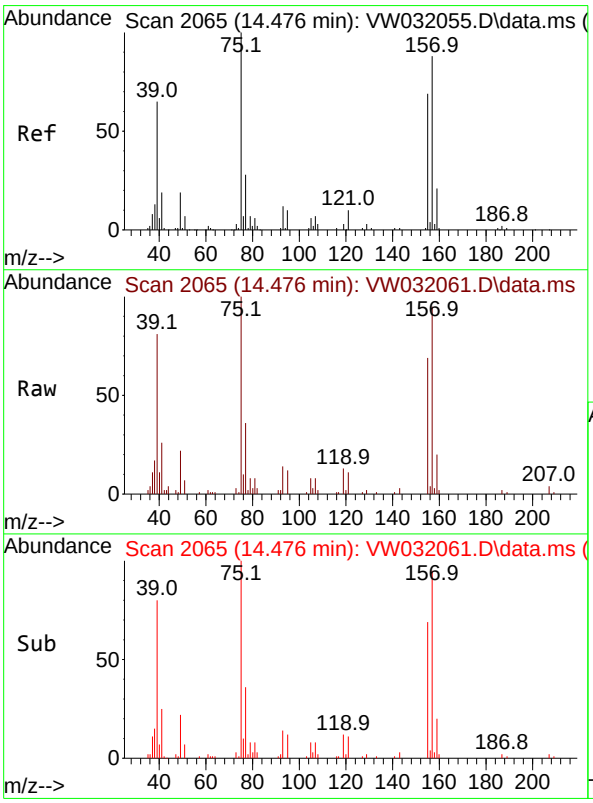
Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.1	69.3
148	66.3	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

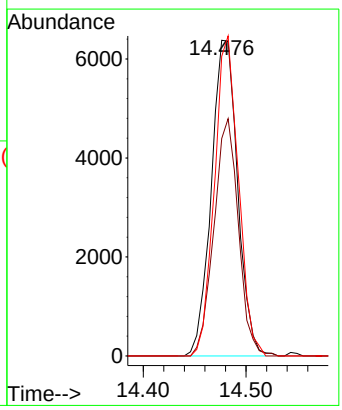
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

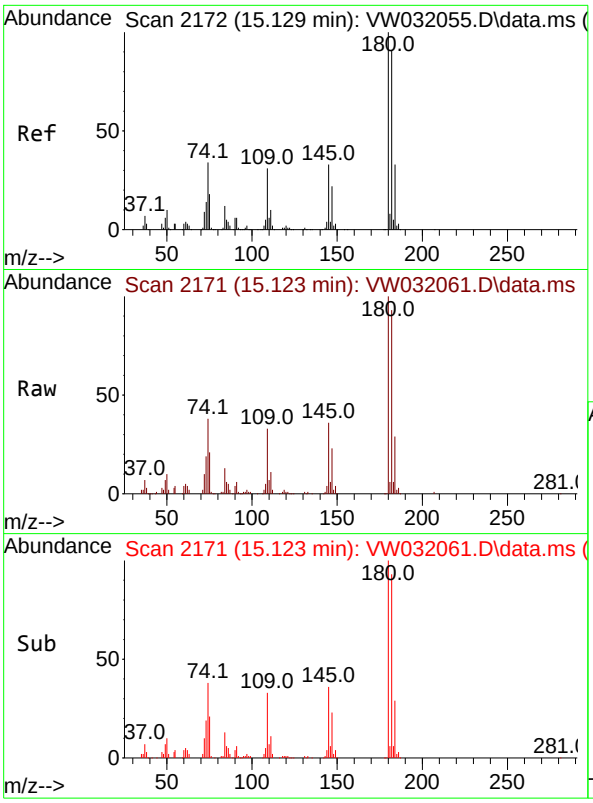


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.070 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 11343

Ion	Ratio	Lower	Upper
75	100		
155	69.8	35.2	105.6
157	92.0	47.5	142.6

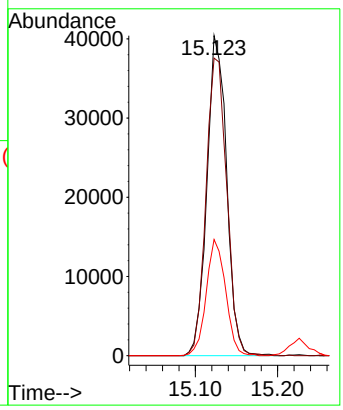




#93
1,2,4-Trichlorobenzene
Concen: 19.544 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:180 Resp: 6739

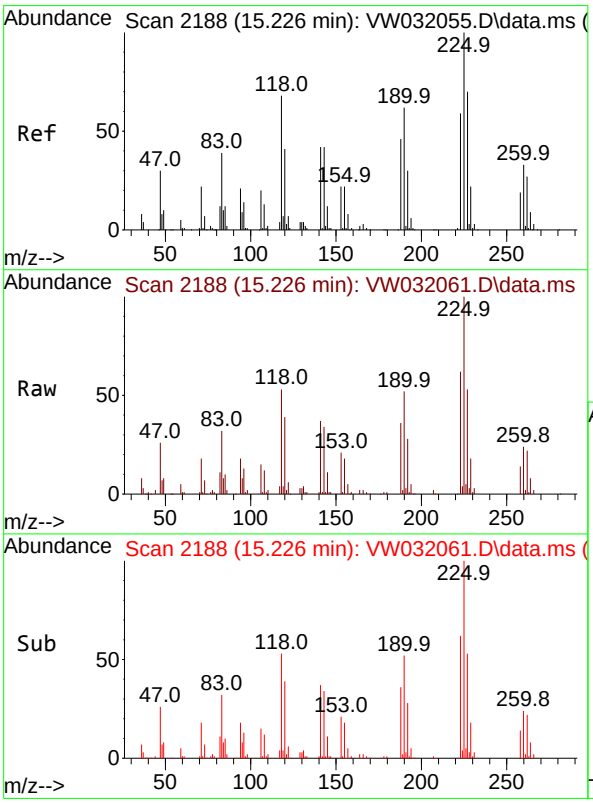
Ion	Ratio	Lower	Upper
180	100		
182	97.6	49.0	147.0
145	35.7	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

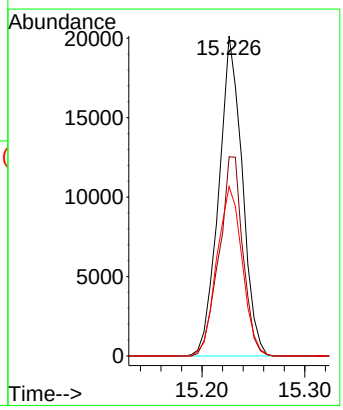
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

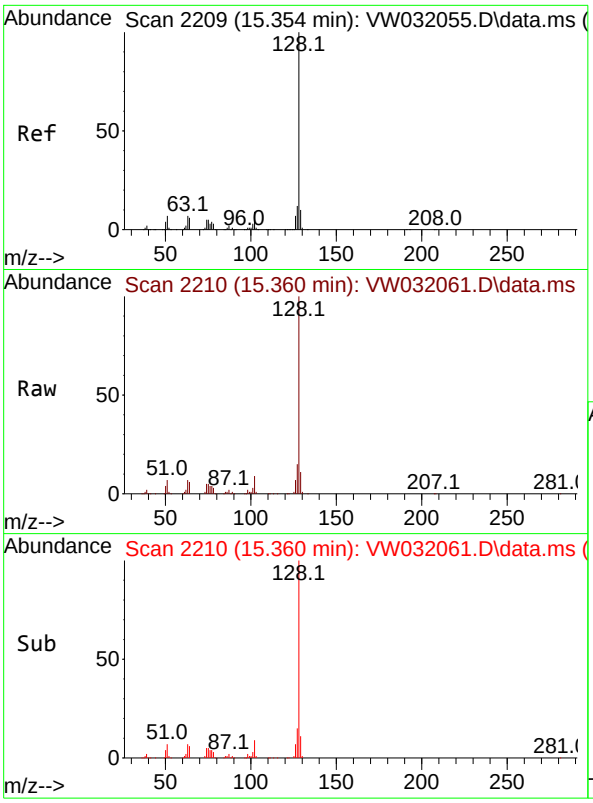


#94
Hexachlorobutadiene
Concen: 20.753 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:225 Resp: 31990

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.8	95.3
227	57.0	33.5	100.5

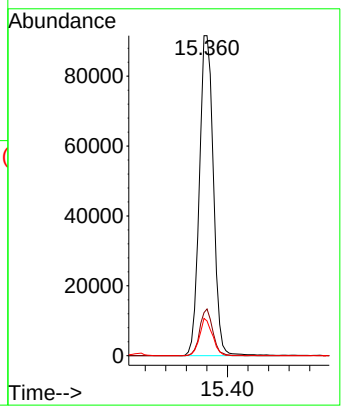




#95
Naphthalene
Concen: 20.498 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:128 Resp: 17319

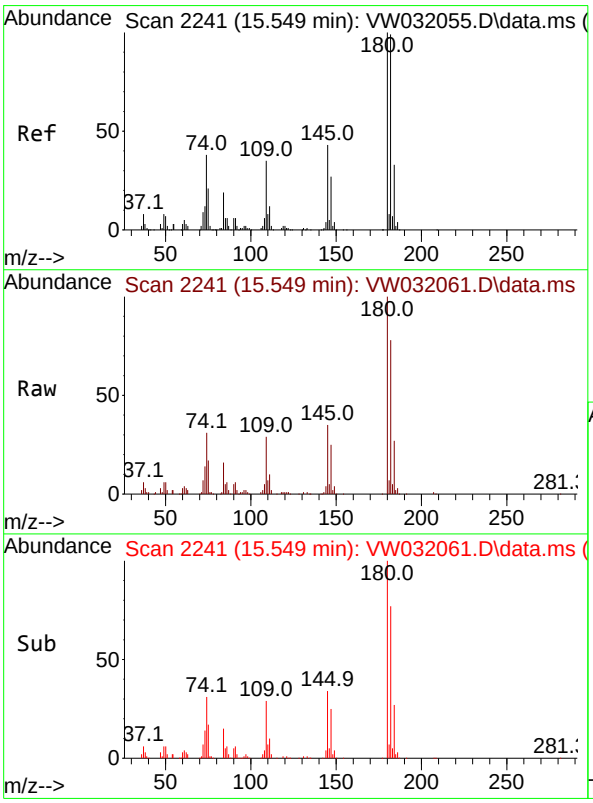
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.5	15.7
129	10.7	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Manual Integrations
APPROVED

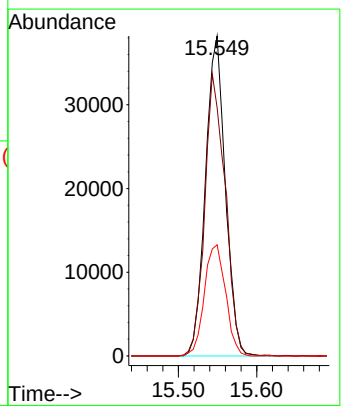
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.446 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:180 Resp: 67287

Ion	Ratio	Lower	Upper
180	100		
182	91.4	46.0	138.0
145	37.2	19.2	57.6



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:	VY0813SBS01	SDG No.:	Q2819
Lab Sample ID:	VY0813SBS01	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
VY023061.D	1	08/13/25 11:09	VY081325

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	23.7		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	23.6		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	23.9		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	23.2		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.5		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	21.5		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	100		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.7		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.9		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	19.0		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	21.6		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.2		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.3		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	20.5		0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	97.4		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.1		0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	20.8		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.4		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.7		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.1		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.2		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.8		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:	VY0813SBS01	SDG No.:	Q2819
Lab Sample ID:	VY0813SBS01	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
VY023061.D	1	08/13/25 11:09	VY081325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	19.6		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.6		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	93.0		3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.8		0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.6		0.88	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	22.2		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	20.4		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.8		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	20.1		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	20.2		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	19.0		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.0		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.3		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.4		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		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	19.5		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.9		3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	18.5		3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.3		71 - 136		101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		78 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.0		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		79 - 119		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	478000	7.707				
540-36-3	1,4-Difluorobenzene	776000	8.609				
3114-55-4	Chlorobenzene-d5	676000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	325000	13.34				

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:	VY0813SBS01	SDG No.:	Q2819
Lab Sample ID:	VY0813SBS01	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
VY023061.D	1	08/13/25 11:09	VY081325

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\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 01:20:39 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 :
VY0813SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	478194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	775826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	675926	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	325106	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	229361	50.326	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.660%			
35) Dibromofluoromethane	7.628	113	229320	49.398	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.800%			
50) Toluene-d8	10.103	98	906626	49.992	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.980%			
62) 4-Bromofluorobenzene	12.401	95	279619	47.943	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	86360	22.125	ug/l	98
3) Chloromethane	2.068	50	149822	23.698	ug/l	99
4) Vinyl Chloride	2.202	62	184278	23.580	ug/l	99
5) Bromomethane	2.586	94	139698	23.936	ug/l	95
6) Chloroethane	2.726	64	120677	23.227	ug/l	100
7) Trichlorofluoromethane	3.049	101	213662	22.485	ug/l	98
8) Diethyl Ether	3.452	74	51671	20.553	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	101004	21.545	ug/l	100
10) Methyl Iodide	4.001	142	97379	19.249	ug/l	99
11) Tert butyl alcohol	4.854	59	27933	89.450	ug/l	99
12) 1,1-Dichloroethene	3.781	96	98921	21.467	ug/l	97
13) Acrolein	3.647	56	42693	93.352	ug/l	95
14) Allyl chloride	4.372	41	143464	21.158	ug/l	99
15) Acrylonitrile	5.049	53	100833	98.653	ug/l	98
16) Acetone	3.866	43	99920	101.199	ug/l	96
17) Carbon Disulfide	4.098	76	326606	21.737	ug/l	98
18) Methyl Acetate	4.379	43	55687	18.953	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	237530	19.892	ug/l	100
20) Methylene Chloride	4.610	84	118853	21.623	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	109941	21.230	ug/l	95
22) Diisopropyl ether	6.012	45	313978	21.310	ug/l	96
23) Vinyl Acetate	5.951	43	814993	100.034	ug/l	98
24) 1,1-Dichloroethane	5.909	63	192114	21.326	ug/l	99
25) 2-Butanone	6.890	43	130779	97.389	ug/l	96
26) 2,2-Dichloropropane	6.878	77	169264	21.776	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	126291	21.095	ug/l	99
28) Bromochloromethane	7.238	49	74346	20.802	ug/l	99
29) Tetrahydrofuran	7.262	42	79003	94.913	ug/l	97
30) Chloroform	7.415	83	200297	21.559	ug/l	95
31) Cyclohexane	7.695	56	173959	20.493	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	176542	21.416	ug/l	98
36) 1,1-Dichloropropene	7.829	75	142922	20.716	ug/l	98
37) Ethyl Acetate	6.982	43	55643	19.200	ug/l	99
38) Carbon Tetrachloride	7.811	117	154916	20.674	ug/l	100
39) Methylcyclohexane	9.103	83	184052	20.258	ug/l	99
40) Benzene	8.073	78	446973	21.020	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 01:20:39 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 :
VY0813SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	27819m	16.633	ug/l		
42) 1,2-Dichloroethane	8.152	62	114299	20.668	ug/l		98
43) Isopropyl Acetate	8.195	43	108405	18.507	ug/l		98
44) Trichloroethene	8.859	130	113487	20.652	ug/l		94
45) 1,2-Dichloropropane	9.134	63	103105	21.073	ug/l		97
46) Dibromomethane	9.225	93	57310	20.408	ug/l		98
47) Bromodichloromethane	9.420	83	151024	20.900	ug/l		100
48) Methyl methacrylate	9.219	41	51033	18.207	ug/l		95
49) 1,4-Dioxane	9.225	88	13354	405.561	ug/l		99
51) 4-Methyl-2-Pentanone	9.993	43	281551	93.183	ug/l		99
52) Toluene	10.164	92	280495	20.769	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	128144	19.584	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	157108	20.305	ug/l		98
55) 1,1,2-Trichloroethane	10.566	97	73477	19.554	ug/l		97
56) Ethyl methacrylate	10.438	69	88174	18.338	ug/l		97
57) 1,3-Dichloropropane	10.713	76	129029	20.247	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.707	63	214069	94.383	ug/l		100
59) 2-Hexanone	10.755	43	191315	92.987	ug/l		97
60) Dibromochloromethane	10.908	129	97950	19.755	ug/l		99
61) 1,2-Dibromoethane	11.011	107	69337	19.632	ug/l		99
64) Tetrachloroethene	10.640	164	134131	22.223	ug/l		98
65) Chlorobenzene	11.438	112	297874	20.431	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	101895	20.592	ug/l		99
67) Ethyl Benzene	11.511	91	512586	20.430	ug/l		99
68) m/p-Xylenes	11.627	106	399348	40.752	ug/l		98
69) o-Xylene	11.950	106	184155	20.065	ug/l		98
70) Styrene	11.963	104	302870	20.179	ug/l		99
71) Bromoform	12.127	173	55061	19.039	ug/l	#	98
73) Isopropylbenzene	12.249	105	481276	20.975	ug/l		100
74) N-amyl acetate	12.066	43	94137	19.346	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	71870	18.344	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	59594m	18.993	ug/l		
77) Bromobenzene	12.529	156	111502	20.369	ug/l		98
78) n-propylbenzene	12.590	91	581635	21.291	ug/l		100
79) 2-Chlorotoluene	12.676	91	332511	21.244	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	390462	21.055	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	25293	19.514	ug/l		98
82) 4-Chlorotoluene	12.773	91	343845	21.176	ug/l		100
83) tert-Butylbenzene	12.993	119	344106	20.545	ug/l		100
84) 1,2,4-Trimethylbenzene	13.036	105	390034	21.128	ug/l		99
85) sec-Butylbenzene	13.170	105	515732	20.962	ug/l		100
86) p-Isopropyltoluene	13.285	119	426905	20.904	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	220435	20.420	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	219736	20.520	ug/l		99
89) n-Butylbenzene	13.615	91	390572	20.823	ug/l		98
90) Hexachloroethane	13.877	117	89456	21.398	ug/l		98
91) 1,2-Dichlorobenzene	13.651	146	191827	20.262	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	11881	19.477	ug/l		93
93) 1,2,4-Trichlorobenzene	14.913	180	105900	18.915	ug/l		98
94) Hexachlorobutadiene	15.017	225	66091	20.089	ug/l		98
95) Naphthalene	15.139	128	162104	16.980	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	89070	18.463	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 01:20:39 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 :
VY0813SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 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\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 01:20:39 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 :
VY0813SBS01

Manual Integrations APPROVED

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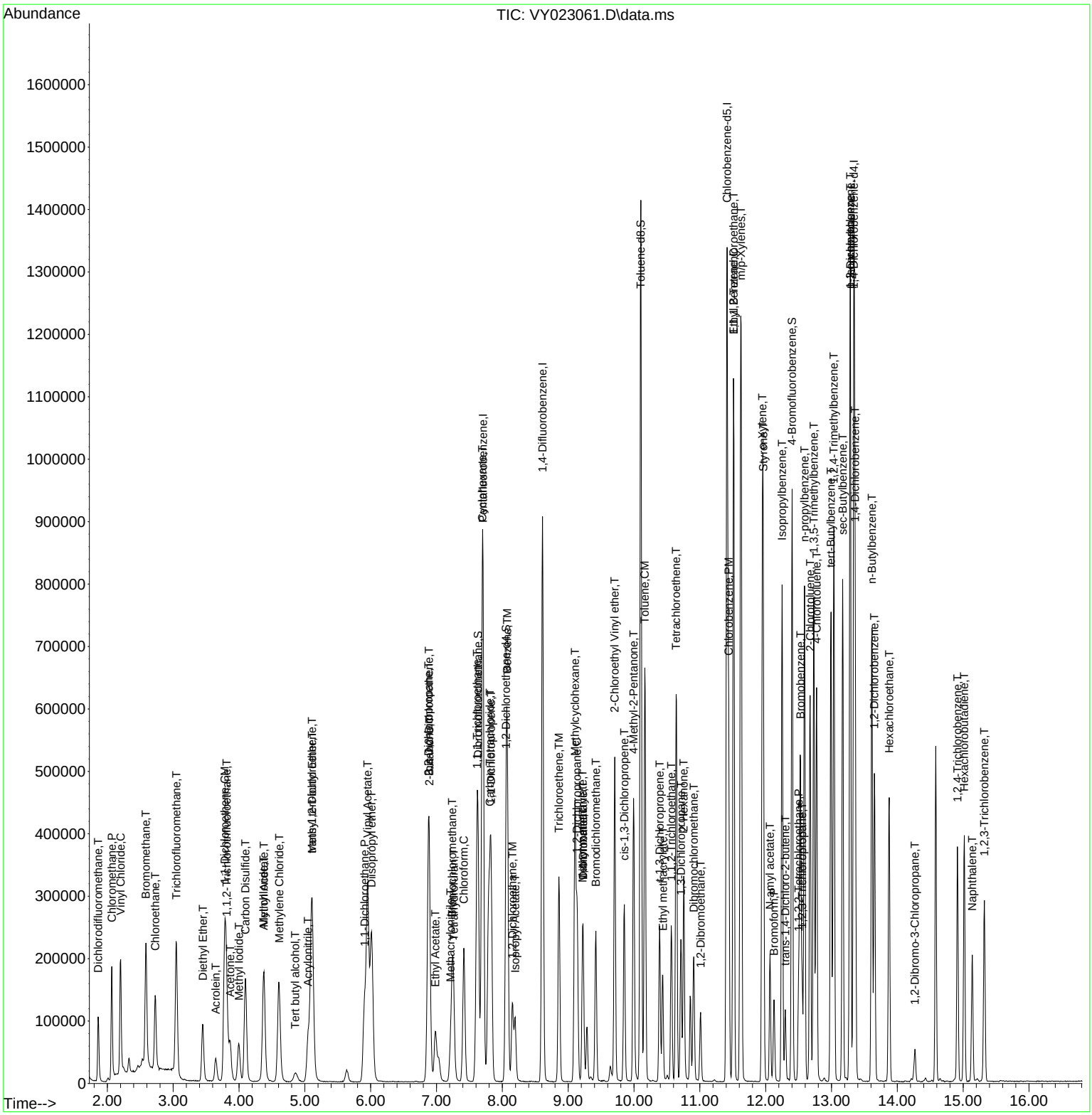
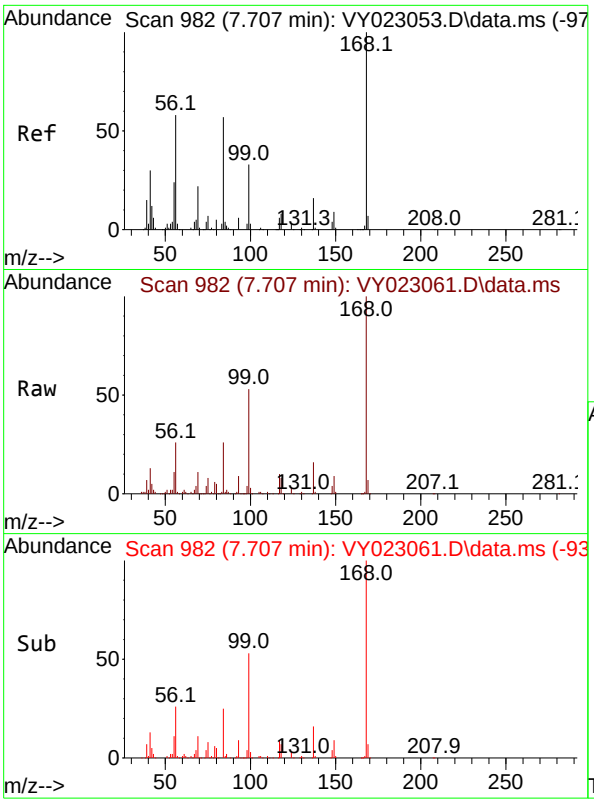
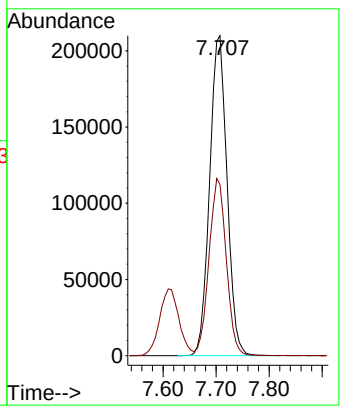




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:168 Resp: 47819

Ion	Ratio	Lower	Upper
168	100		
99	53.4	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
APPROVED

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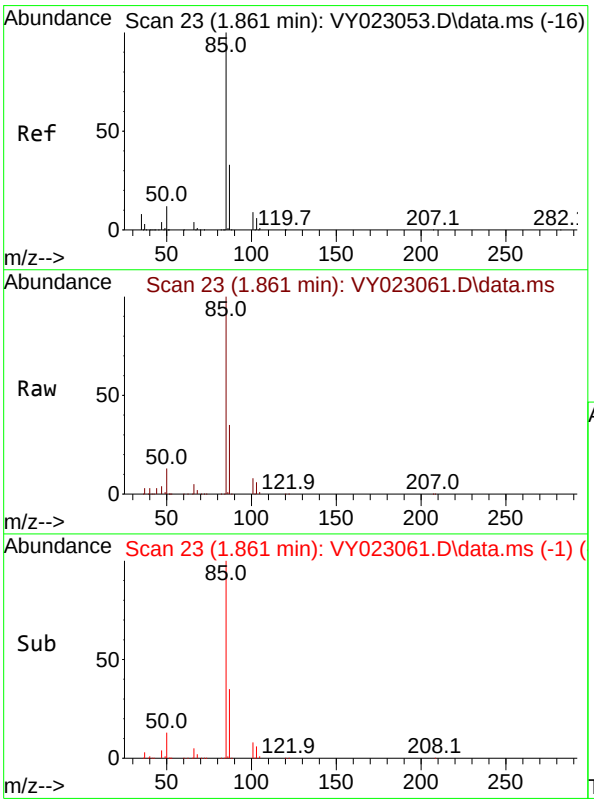
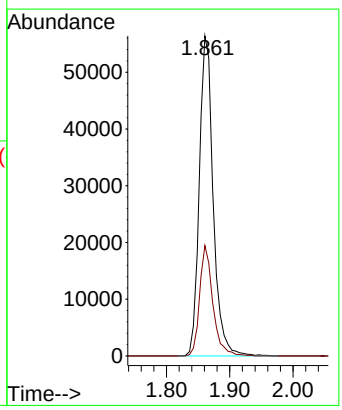
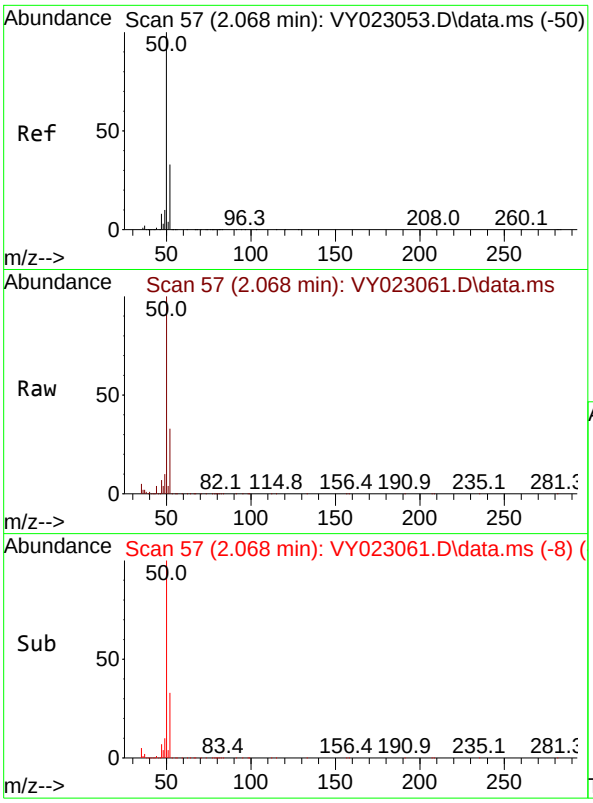


#2
Dichlorodifluoromethane
Concen: 22.125 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 85 Resp: 86360

Ion	Ratio	Lower	Upper
85	100		
87	34.5	16.6	49.8

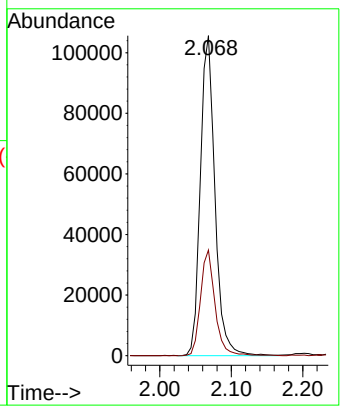




#3
Chloromethane
Concen: 23.698 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 50 Resp: 14982

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
APPROVED

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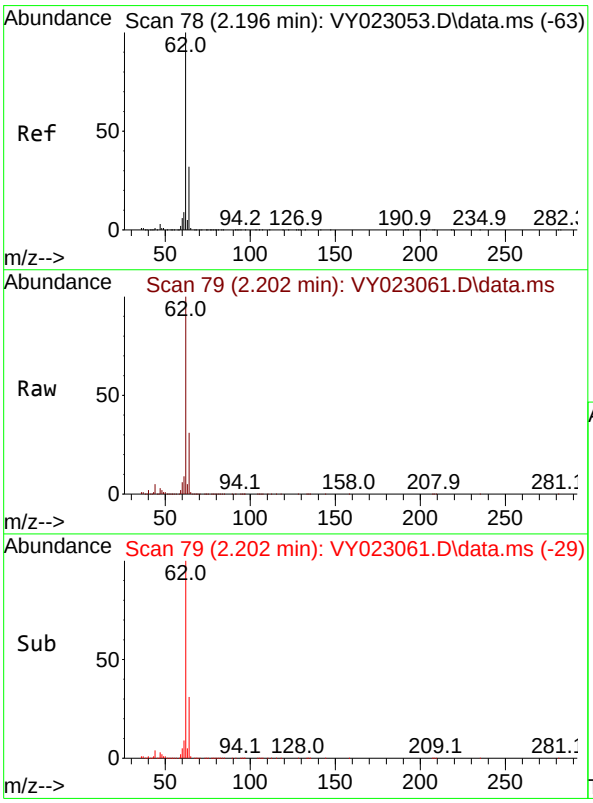
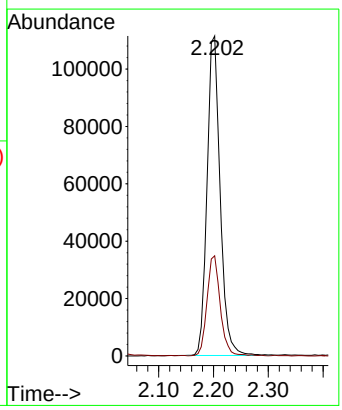
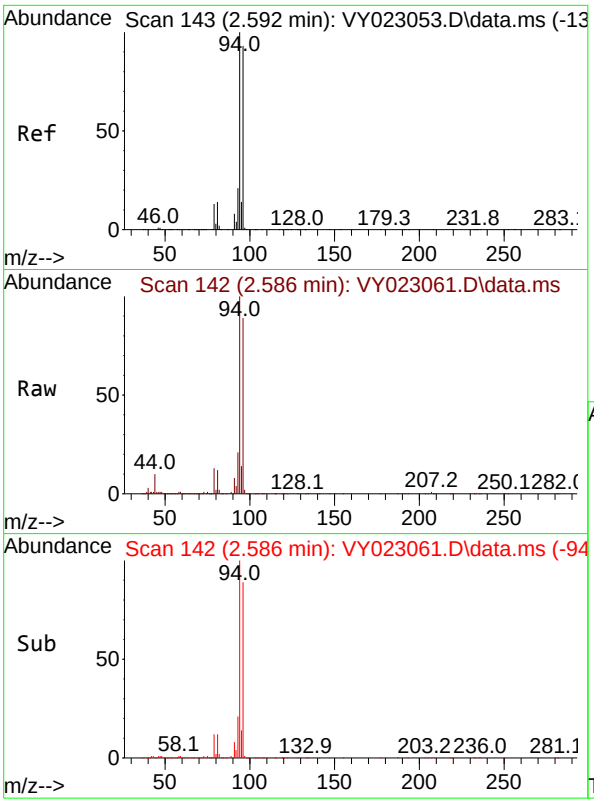


#4
Vinyl Chloride
Concen: 23.580 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 184278

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.4	38.0

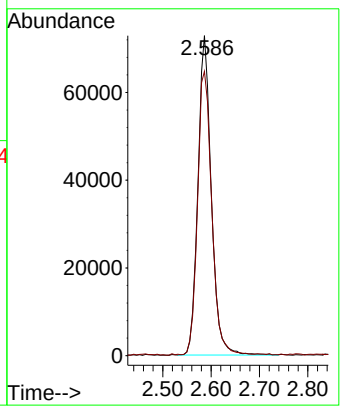




#5
Bromomethane
Concen: 23.936 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 94 Resp: 13969

Ion	Ratio	Lower	Upper
94	100		
96	88.8	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
APPROVED

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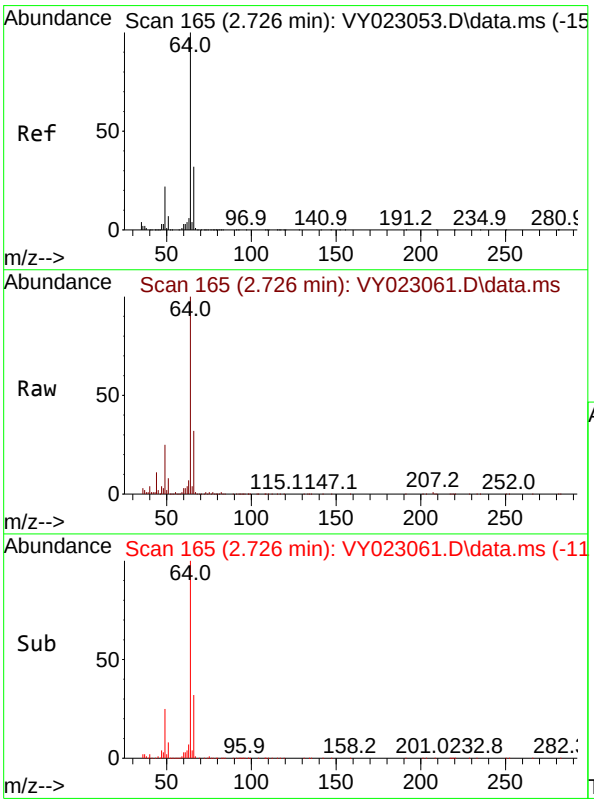
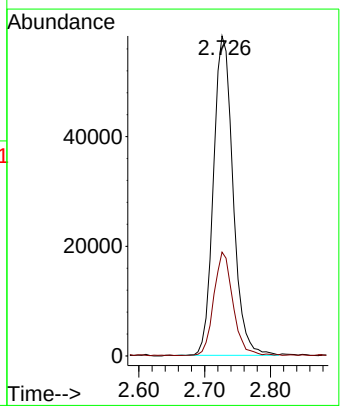
Supervised By :Semsettin Yesilyurt 08/19/2025

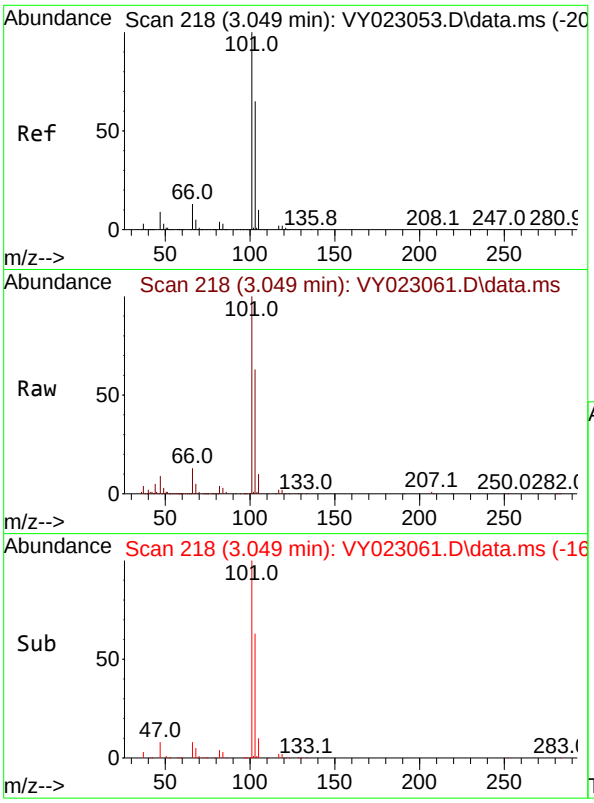


#6
Chloroethane
Concen: 23.227 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 64 Resp: 120677

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.8	38.6





#7
Trichlorofluoromethane
Concen: 22.485 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

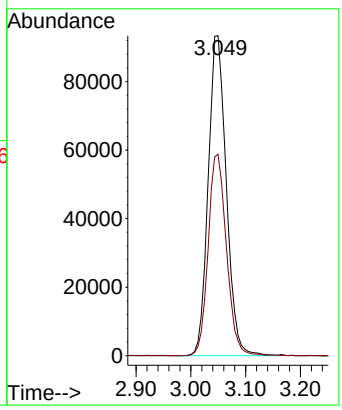
Tgt Ion:101 Resp: 21366

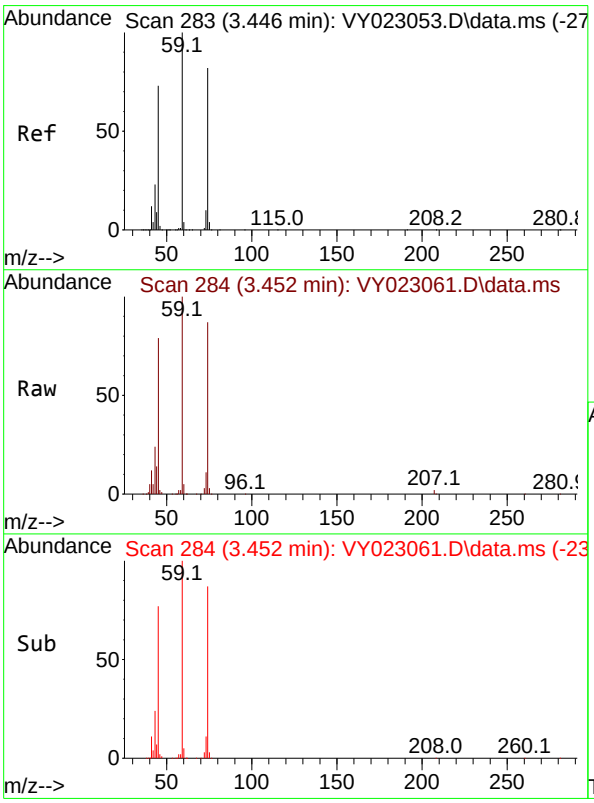
Ion	Ratio	Lower	Upper
101	100		
103	63.0	51.9	77.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

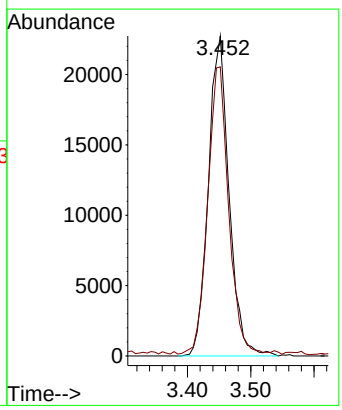


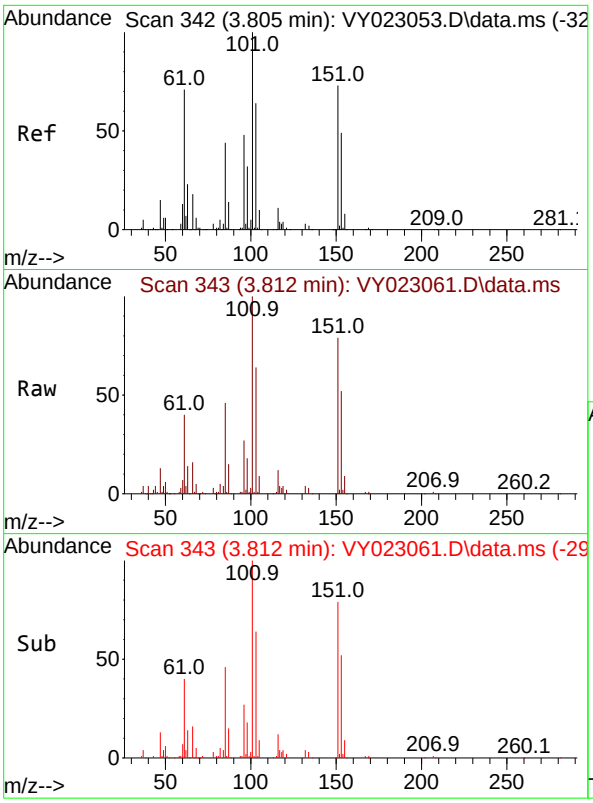


#8
Diethyl Ether
Concen: 20.553 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 74 Resp: 51671

Ion	Ratio	Lower	Upper
74	100		
45	90.4	44.4	133.2

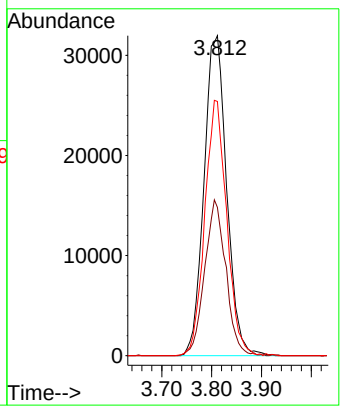




#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.545 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

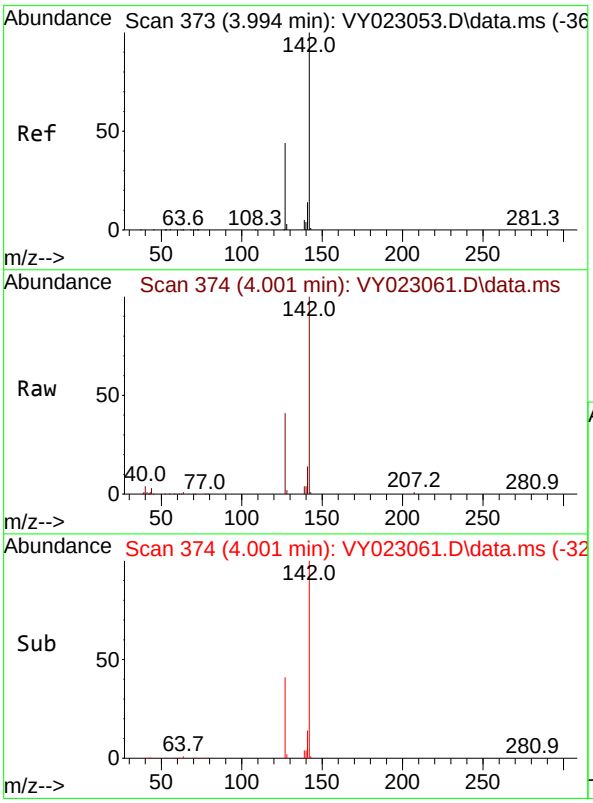
Tgt Ion:101 Resp: 10100

Ion	Ratio	Lower	Upper
101	100		
85	45.7	36.3	54.5
151	77.2	61.5	92.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

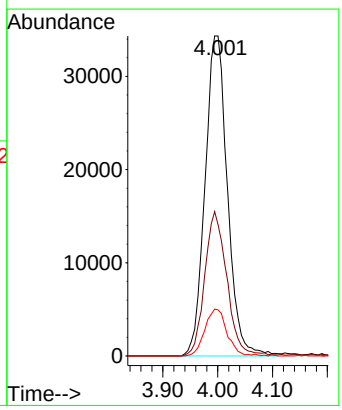
Manual Integrations
APPROVED
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

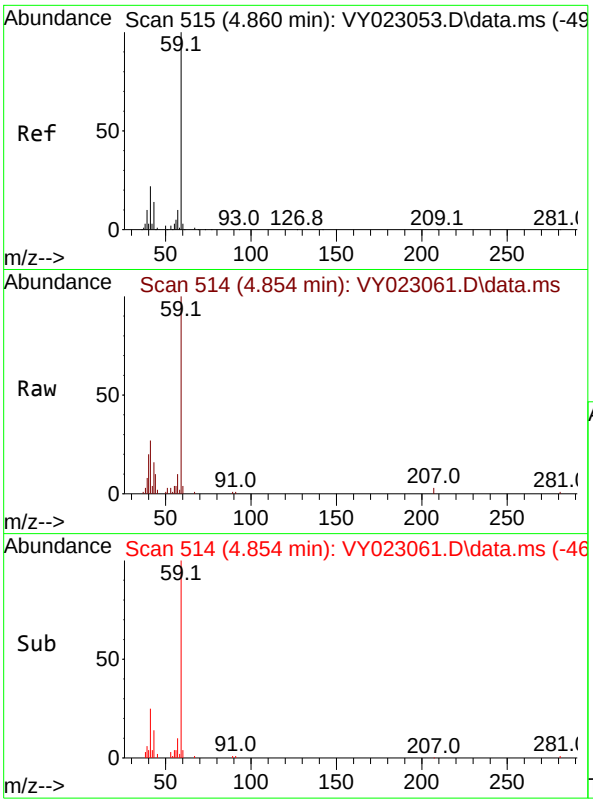


#10
Methyl Iodide
Concen: 19.249 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:142 Resp: 97379

Ion	Ratio	Lower	Upper
142	100		
127	44.6	34.9	52.3
141	14.5	11.3	16.9

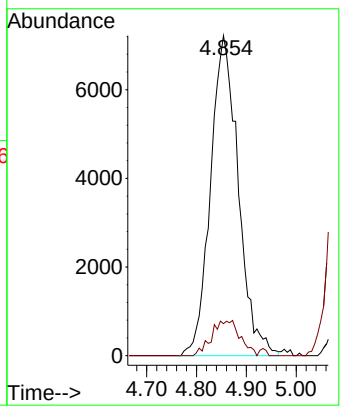




#11
Tert butyl alcohol
Concen: 89.450 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 59 Resp: 2793

Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.6	13.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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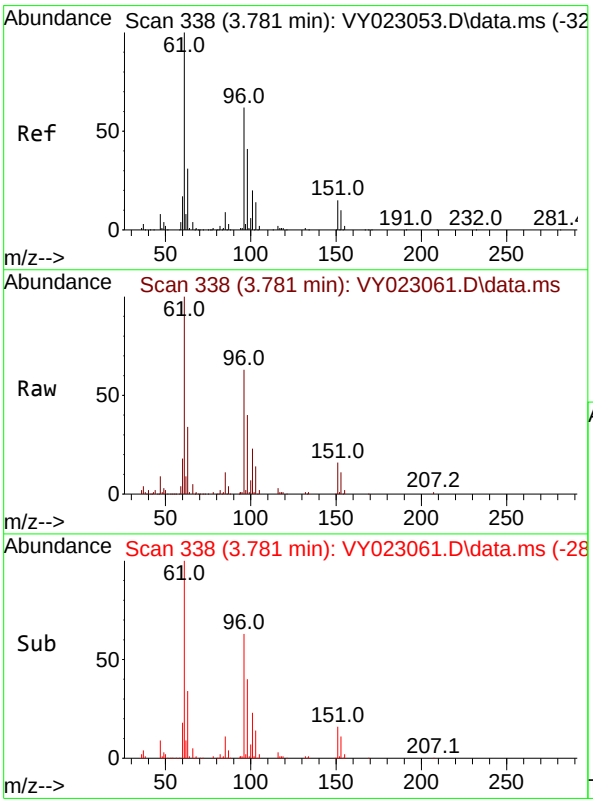
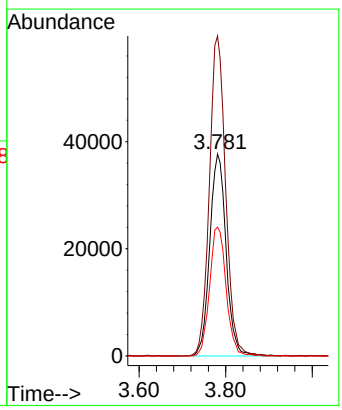
Supervised By :Semsettin Yesilyurt 08/19/2025

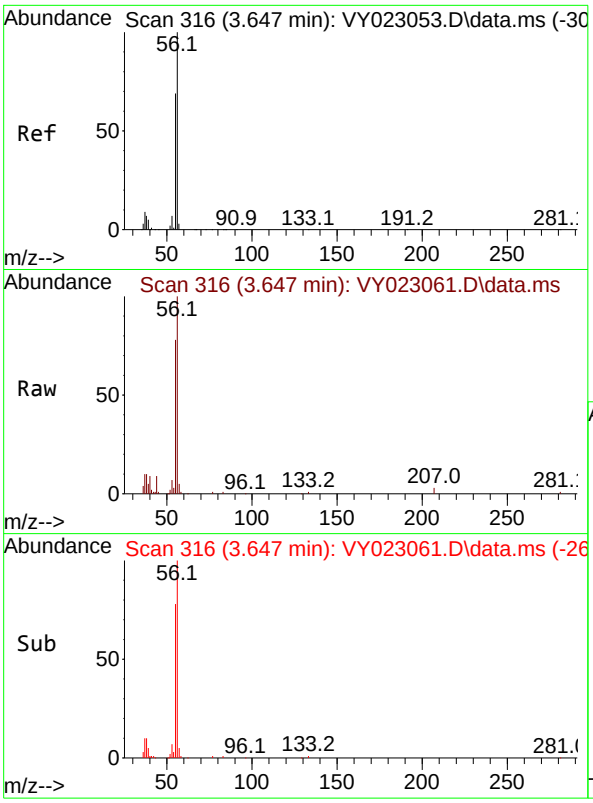


#12
1,1-Dichloroethene
Concen: 21.467 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 98921

Ion	Ratio	Lower	Upper
96	100		
61	158.4	129.4	194.2
98	63.8	52.8	79.2

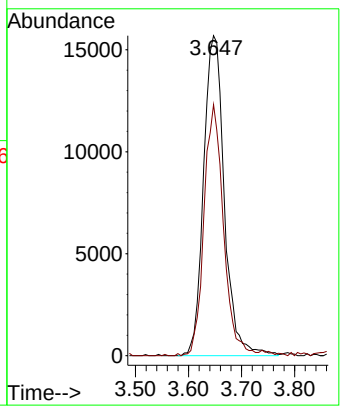




#13
Acrolein
Concen: 93.352 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 56 Resp: 4269

Ion	Ratio	Lower	Upper
56	100		
55	73.3	55.2	82.8



Instrument :
MSVOA_Y
ClientSampleId :
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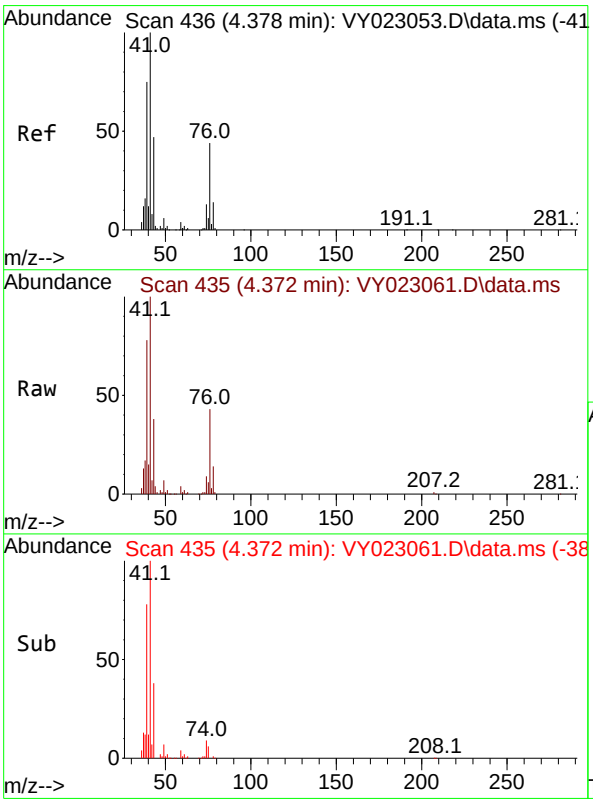
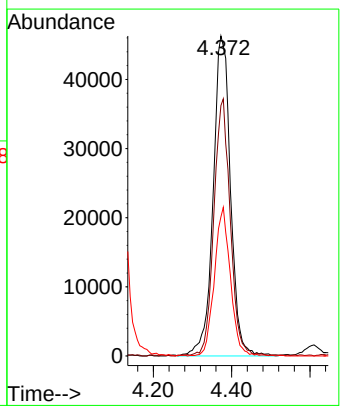
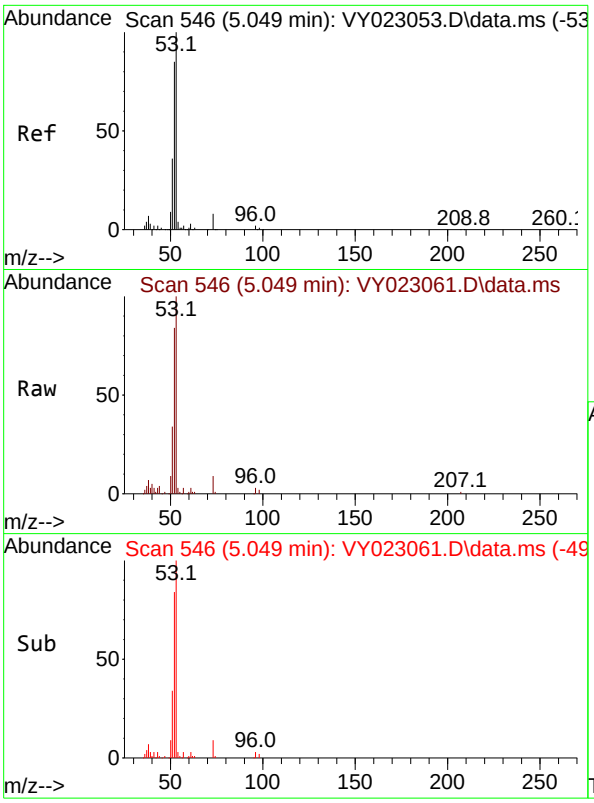


#14
Allyl chloride
Concen: 21.158 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 143464

Ion	Ratio	Lower	Upper
41	100		
39	75.4	59.8	89.6
76	42.6	33.7	50.5





#15
Acrylonitrile
Concen: 98.653 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 53 Resp: 10083

Ion	Ratio	Lower	Upper
53	100		
52	79.6	65.3	97.9
51	35.9	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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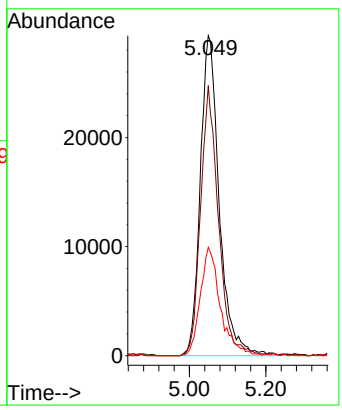
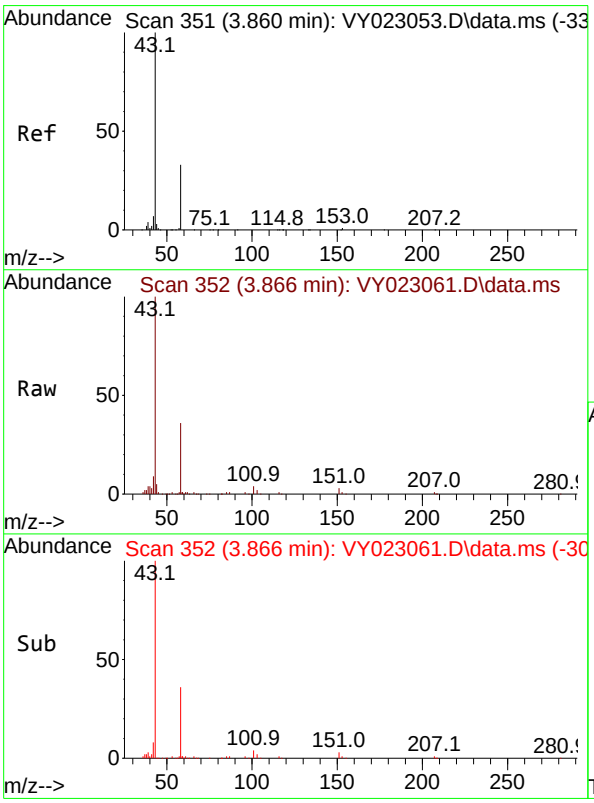
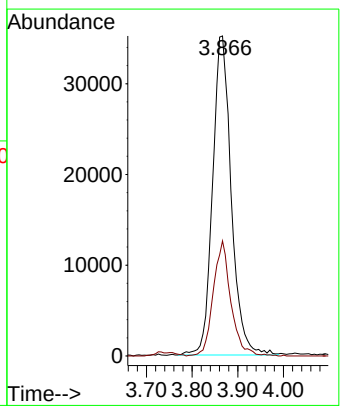


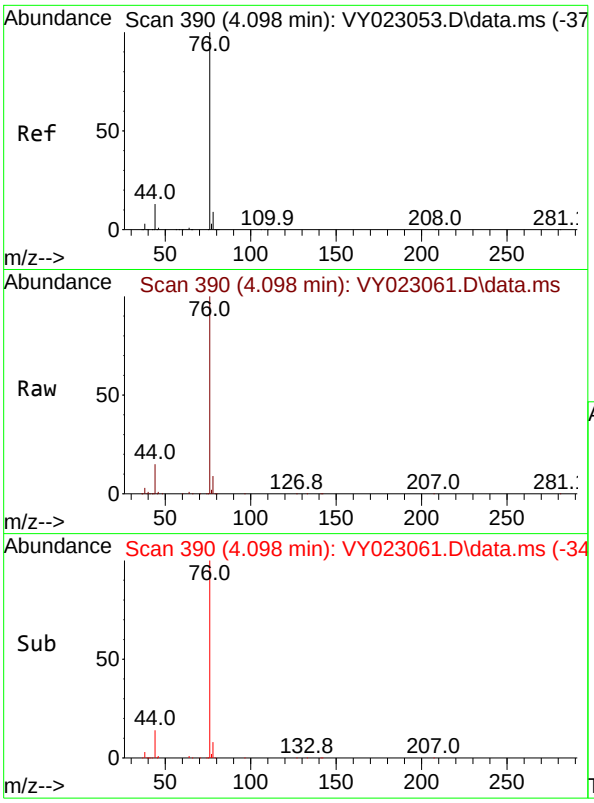


#16
Acetone
Concen: 101.199 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 99920

Ion	Ratio	Lower	Upper
43	100		
58	36.1	27.1	40.7





#17
Carbon Disulfide
Concen: 21.737 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 76 Resp: 32660

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
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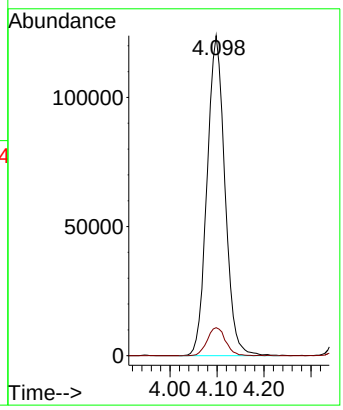
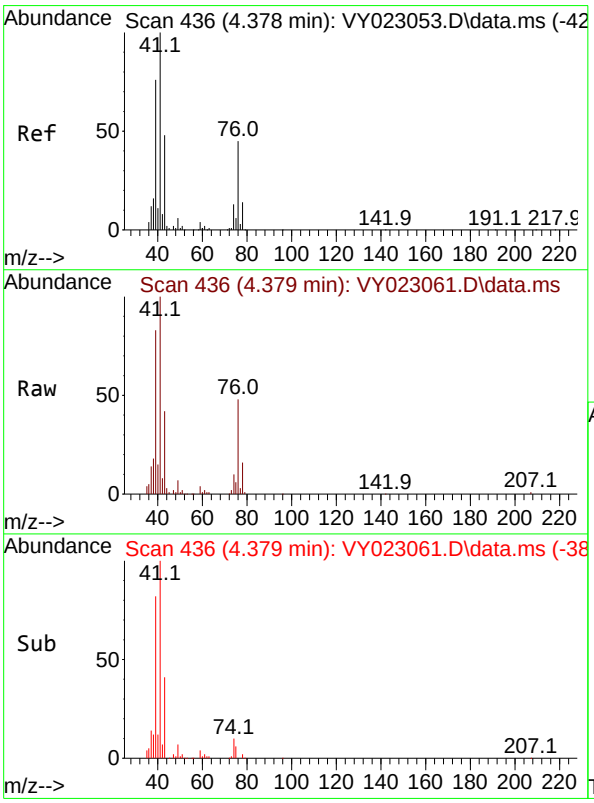
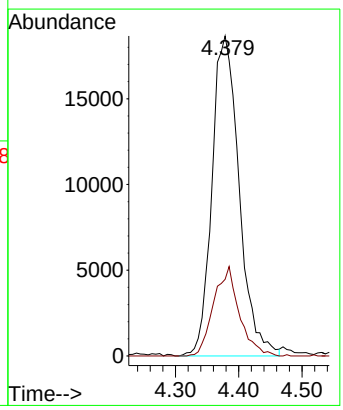


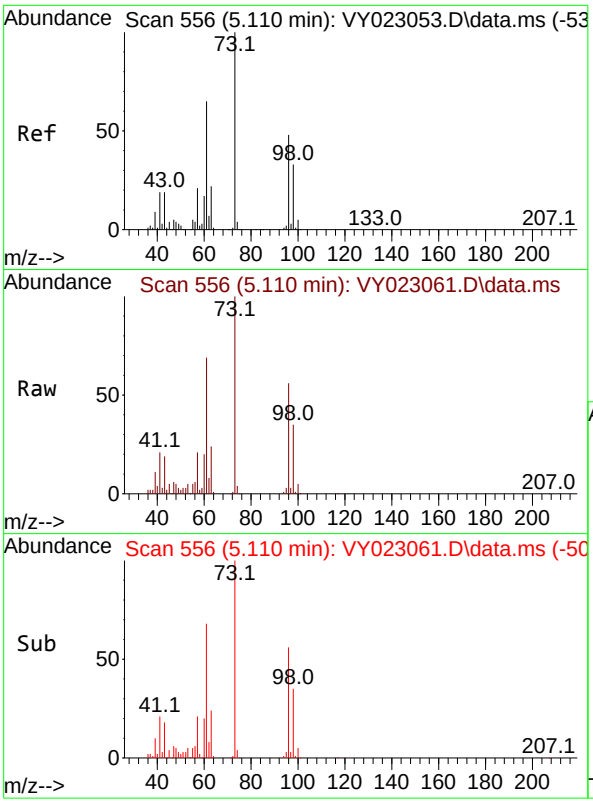


#18
Methyl Acetate
Concen: 18.953 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 55687

Ion	Ratio	Lower	Upper
43	100		
74	26.3	21.2	31.8

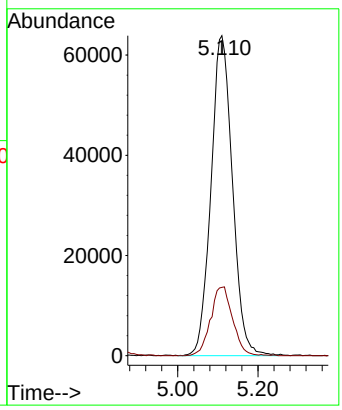




#19
Methyl tert-butyl Ether
Concen: 19.892 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 73 Resp: 23753

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
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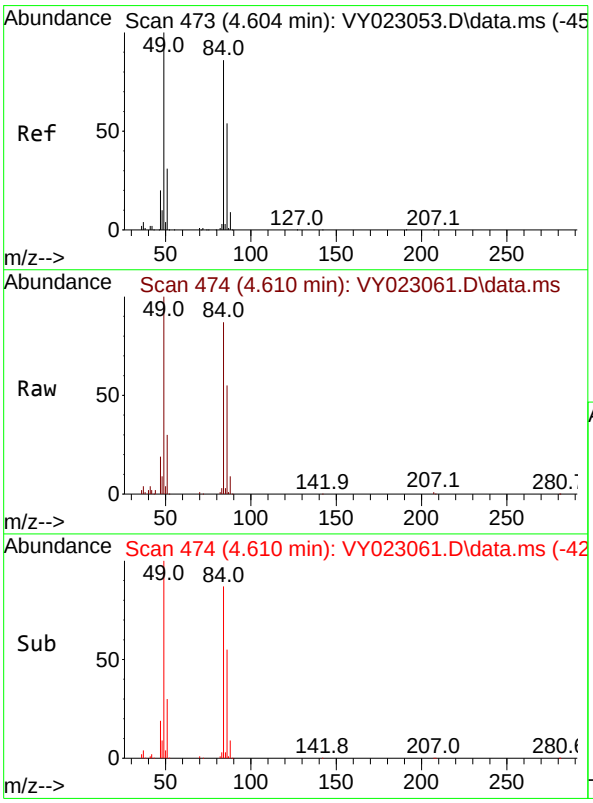
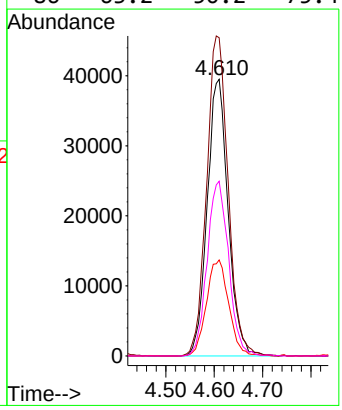
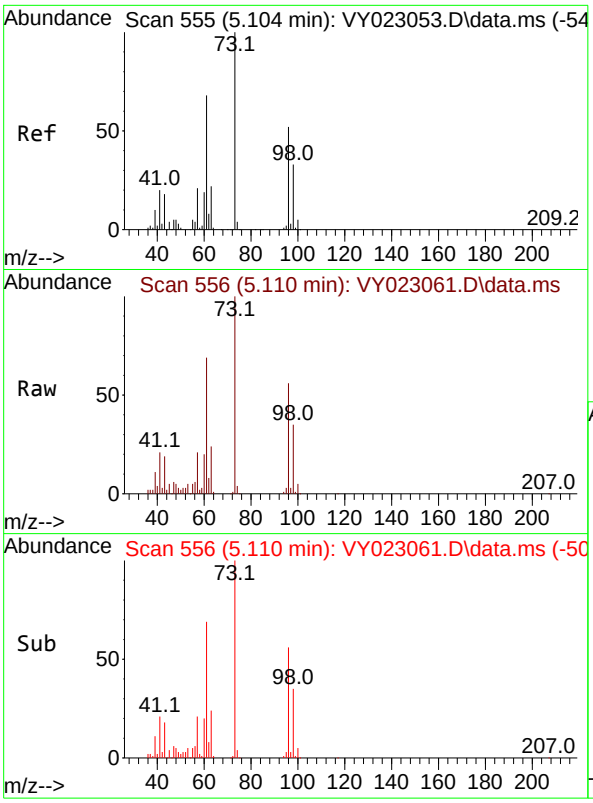


#20
Methylene Chloride
Concen: 21.623 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 84 Resp: 118853

Ion	Ratio	Lower	Upper
84	100		
49	115.1	93.0	139.6
51	34.7	29.0	43.4
86	63.2	50.2	75.4

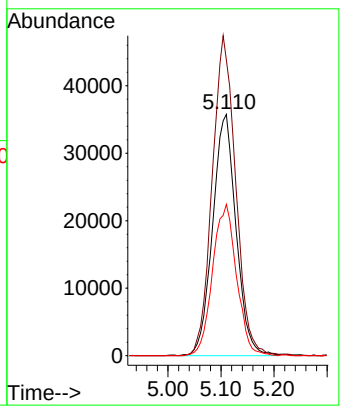




#21
trans-1,2-Dichloroethene
Concen: 21.230 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 10994

Ion	Ratio	Lower	Upper
96	100		
61	122.5	104.8	157.2
98	62.7	50.1	75.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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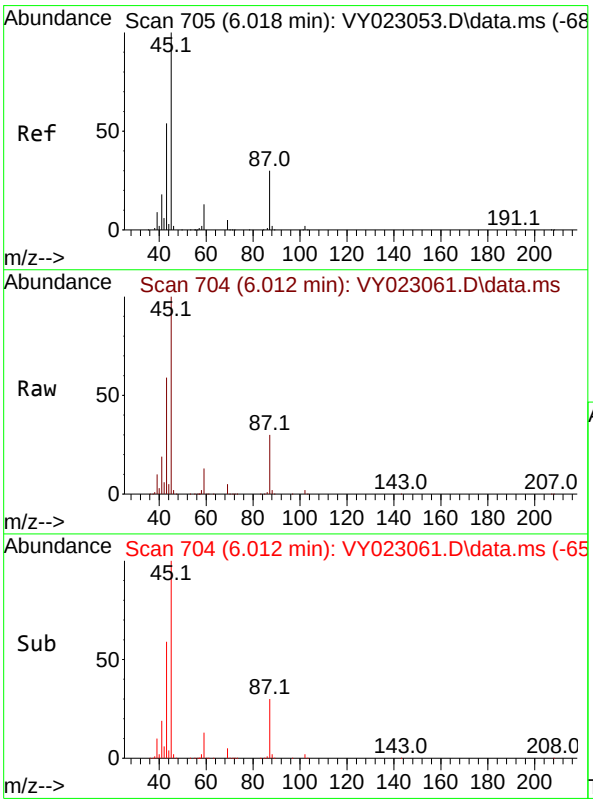
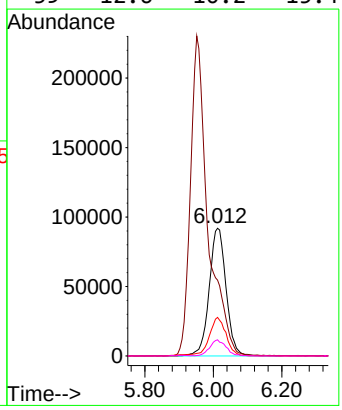
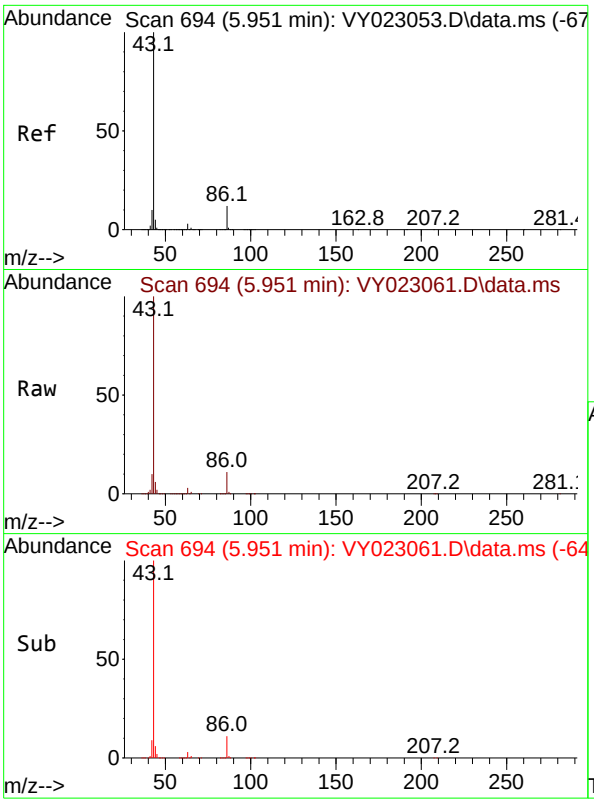


#22
Diisopropyl ether
Concen: 21.310 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 45 Resp: 313978

Ion	Ratio	Lower	Upper
45	100		
43	59.0	43.4	65.0
87	30.2	24.4	36.6
59	12.6	10.2	15.4

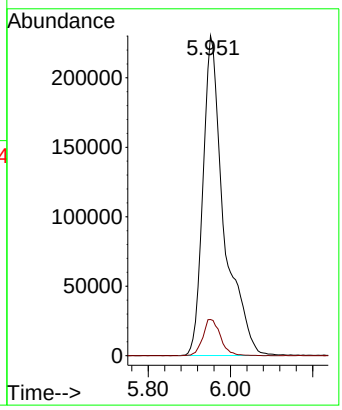




#23
Vinyl Acetate
Concen: 100.034 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 81499

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.6	14.4



Instrument :
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ClientSampleId :
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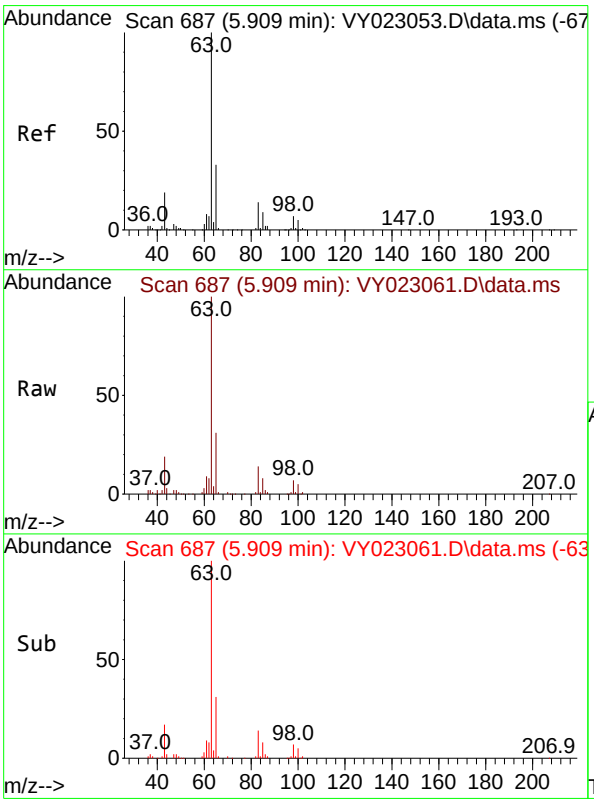
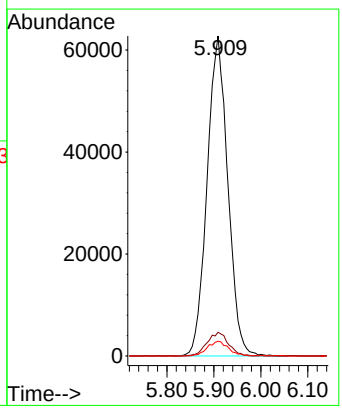
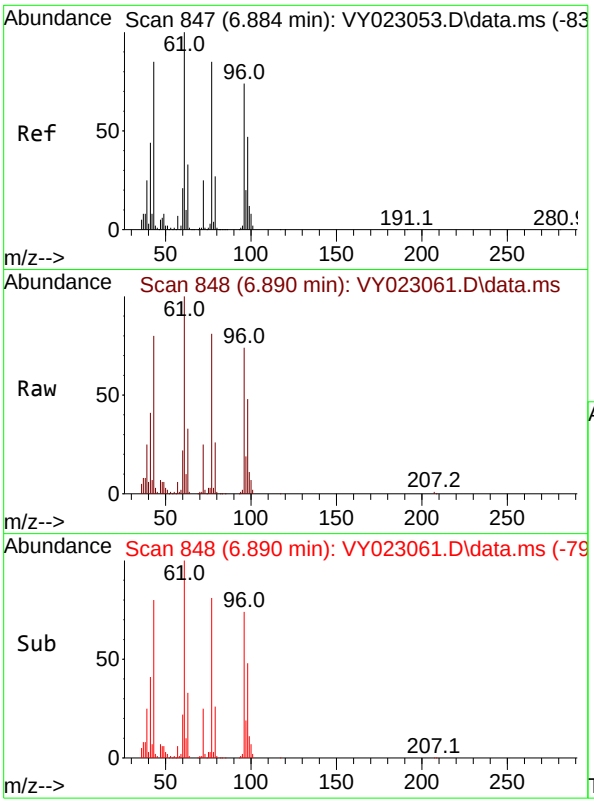


#24
1,1-Dichloroethane
Concen: 21.326 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 192114

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.6	2.4	7.1





#25
2-Butanone
Concen: 97.389 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 13077

Ion	Ratio	Lower	Upper
43	100		
72	31.6	23.5	35.3

Instrument :
MSVOA_Y
ClientSampleId :
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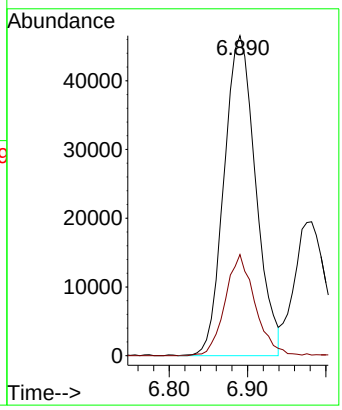
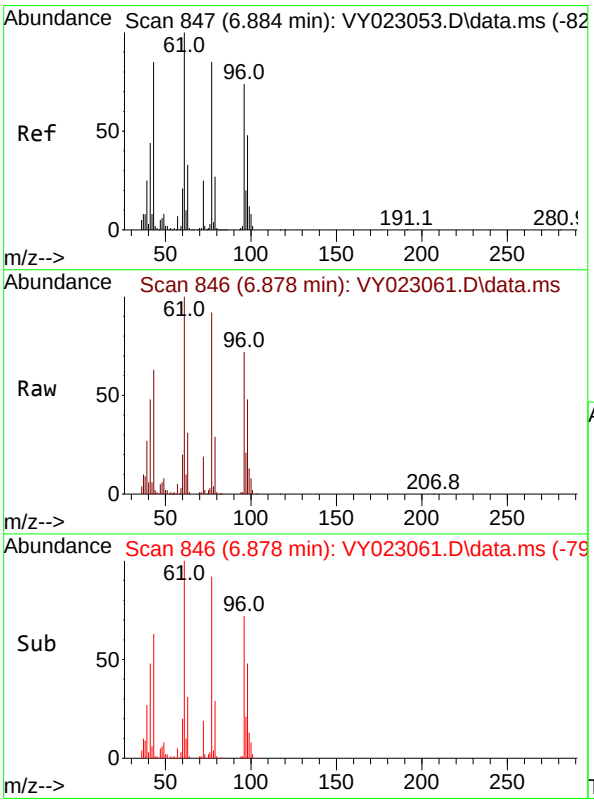
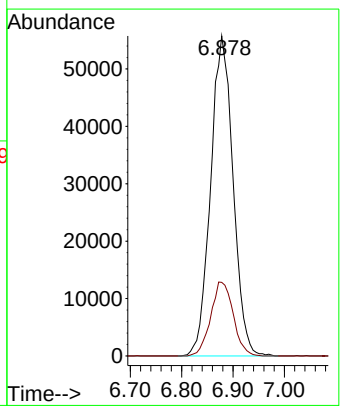


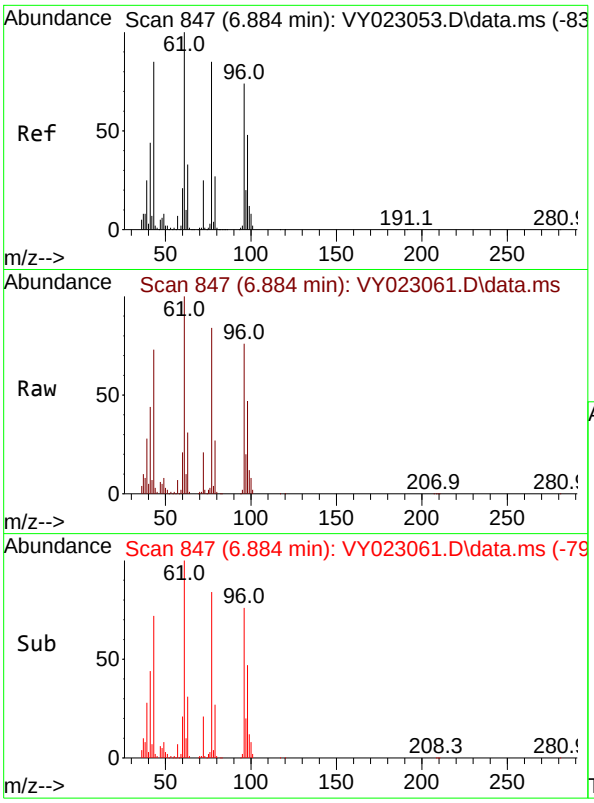


#26
2,2-Dichloropropane
Concen: 21.776 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 77 Resp: 169264

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8

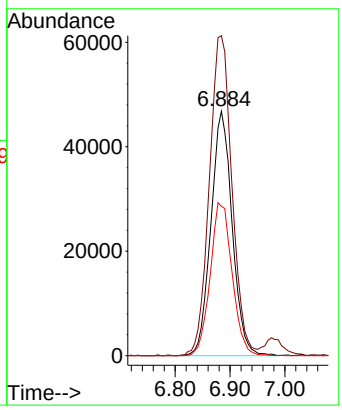




#27
cis-1,2-Dichloroethene
Concen: 21.095 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 12629

Ion	Ratio	Lower	Upper
96	100		
61	138.9	0.0	278.6
98	64.3	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
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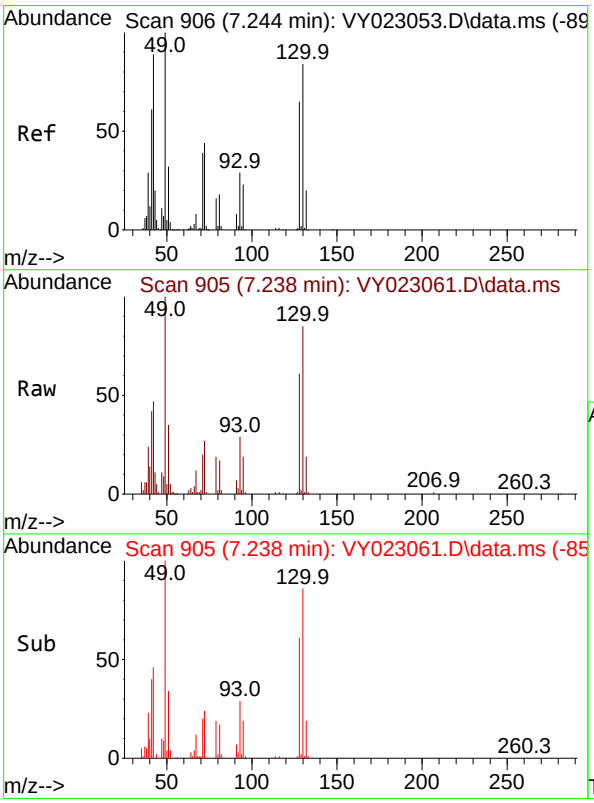
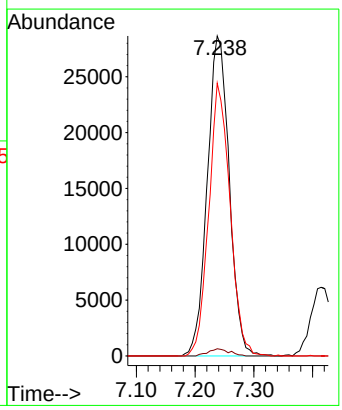
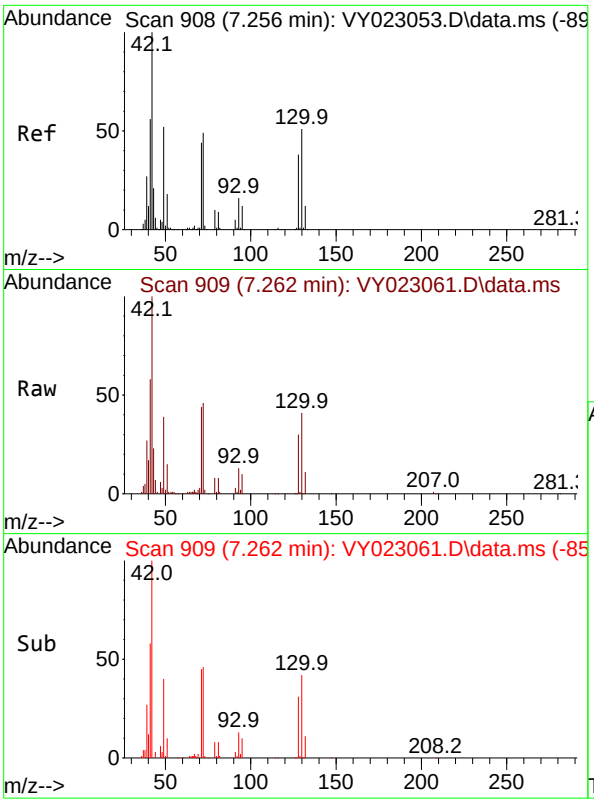


#28
Bromochloromethane
Concen: 20.802 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 49 Resp: 74346

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.5	66.4	99.6

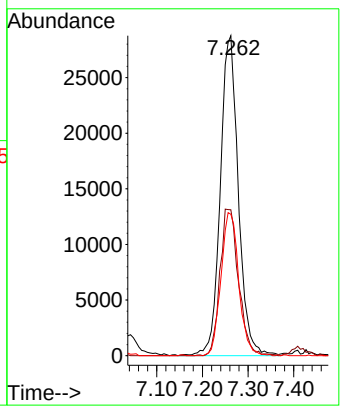




#29
Tetrahydrofuran
Concen: 94.913 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 42 Resp: 7900

Ion	Ratio	Lower	Upper
42	100		
72	47.0	39.4	59.2
71	44.1	36.5	54.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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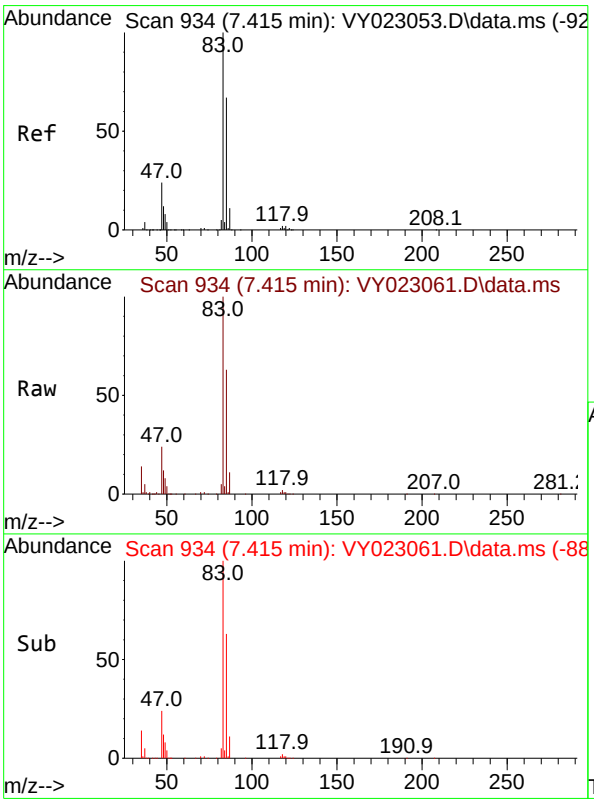
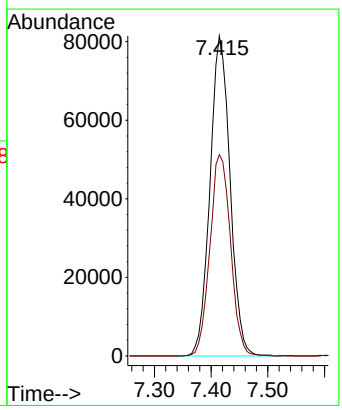
Supervised By :Semsettin Yesilyurt 08/19/2025

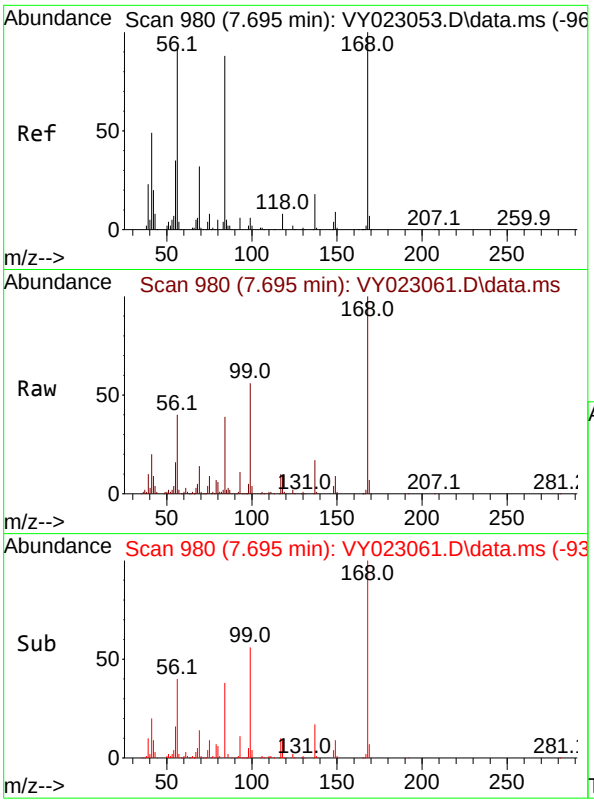


#30
Chloroform
Concen: 21.559 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 200297

Ion	Ratio	Lower	Upper
83	100		
85	62.9	53.8	80.8

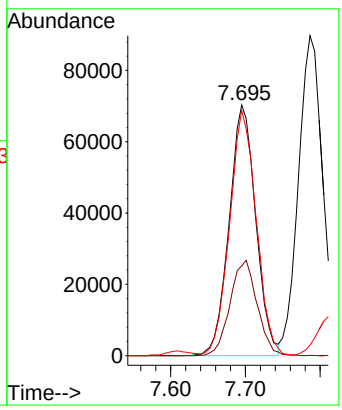




#31
Cyclohexane
Concen: 20.493 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 56 Resp: 17395

Ion	Ratio	Lower	Upper
56	100		
69	35.9	28.2	42.2
84	95.9	76.6	114.8



Instrument :
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ClientSampleId :
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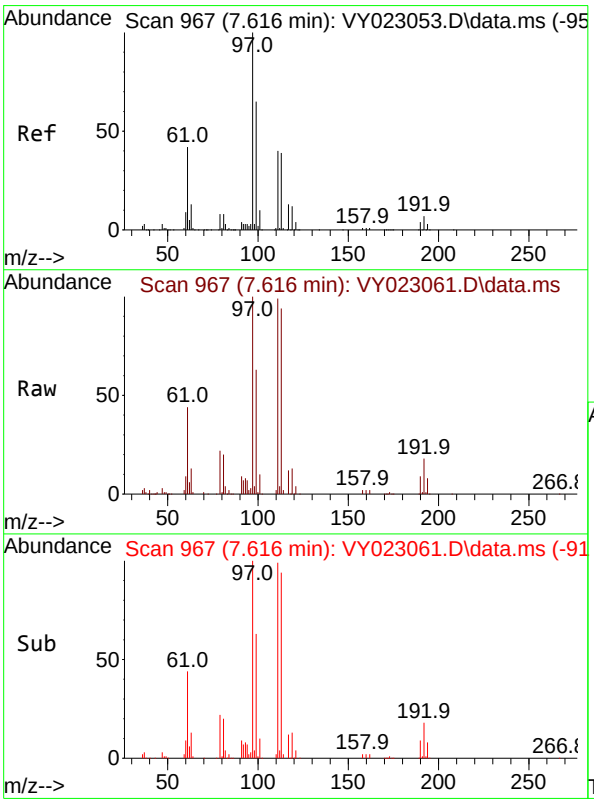
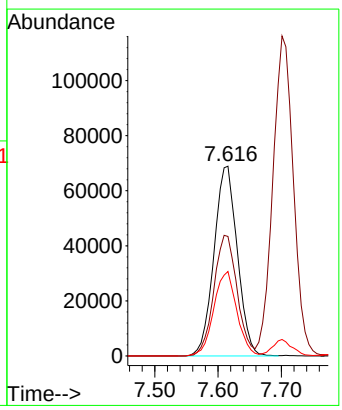
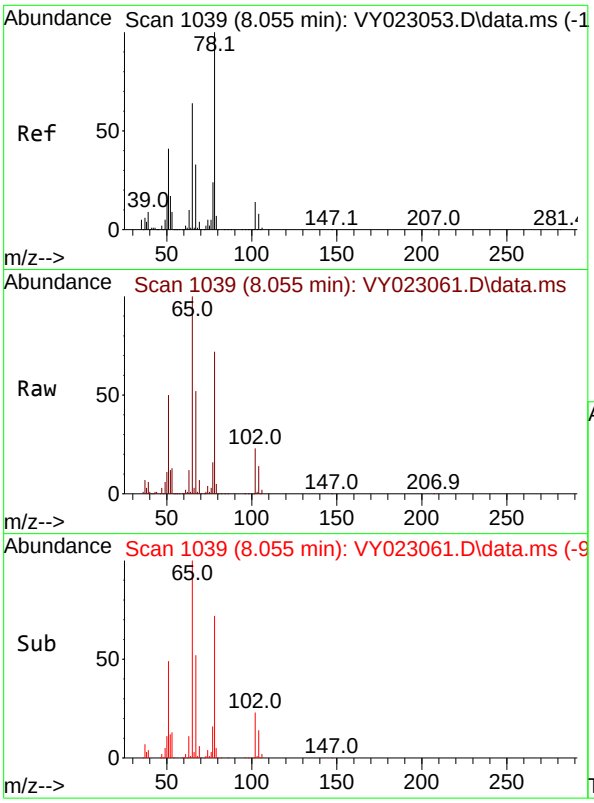


#32
1,1,1-Trichloroethane
Concen: 21.416 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 97 Resp: 176542

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.6	77.4
61	44.0	34.2	51.2





#33
1,2-Dichloroethane-d4
Concen: 50.326 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 65 Resp: 22936

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.8

Instrument :
MSVOA_Y
ClientSampleId :
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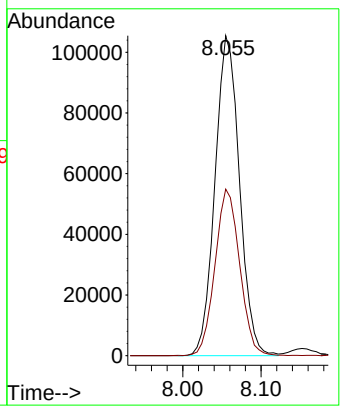
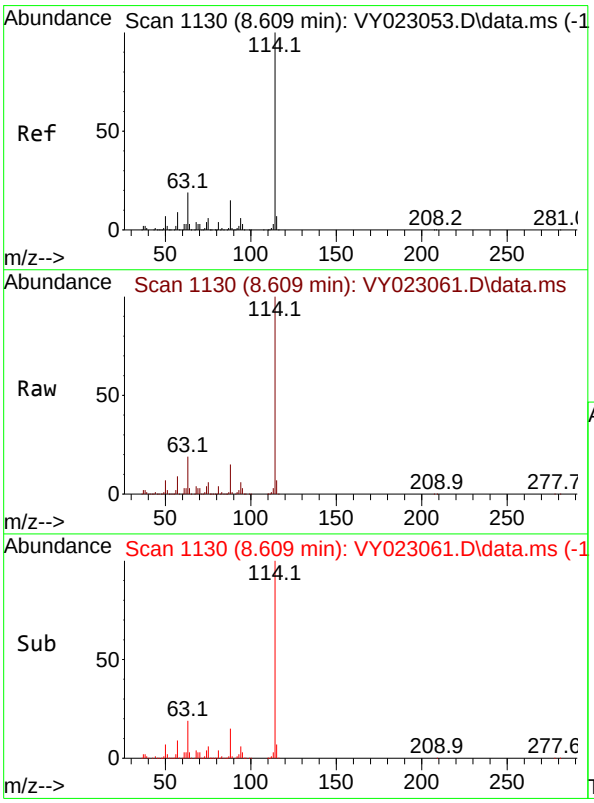
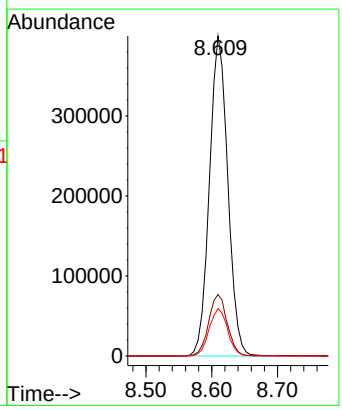


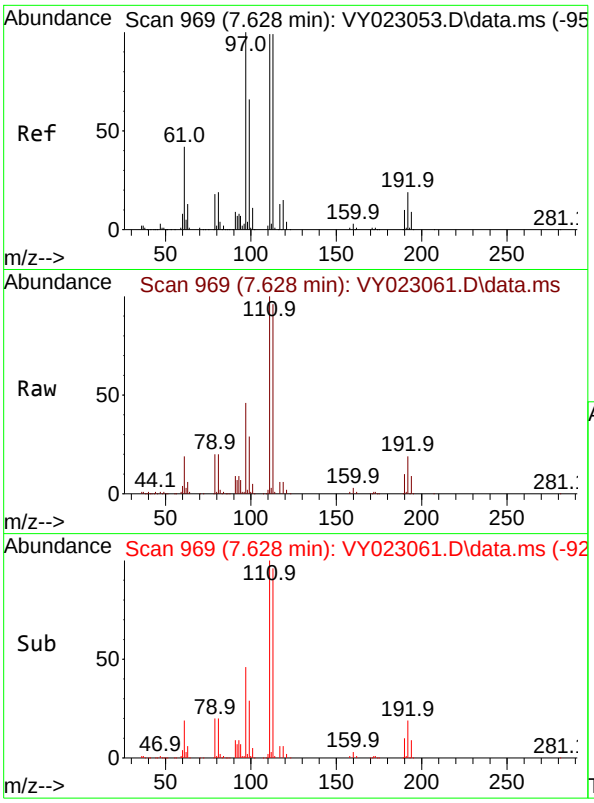


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:114 Resp: 775826

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	14.8	0.0	30.0

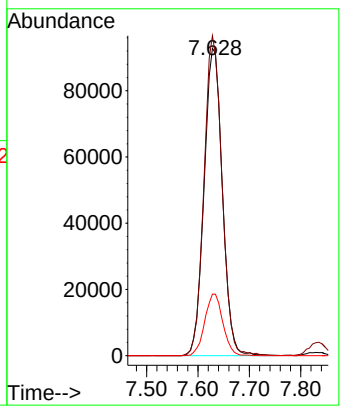




#35
Dibromofluoromethane
Concen: 49.398 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:113 Resp: 22932

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.1	121.7
192	19.9	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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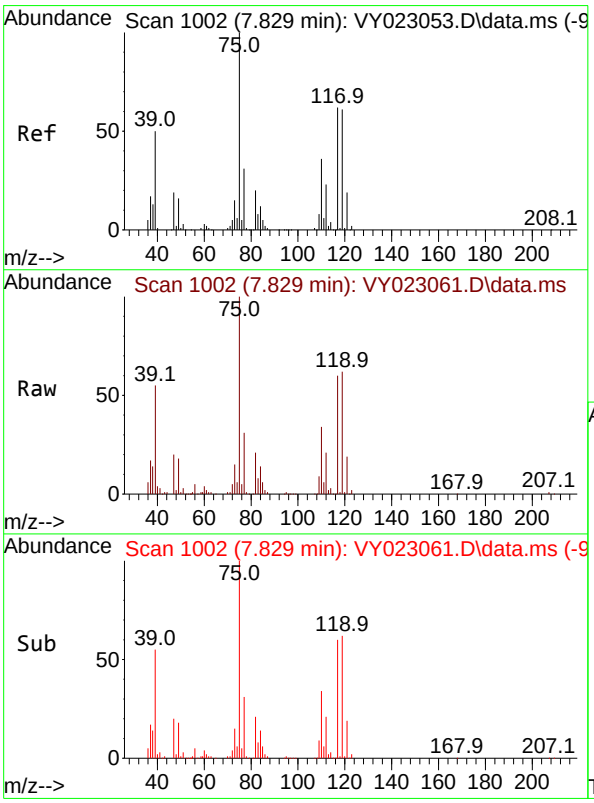
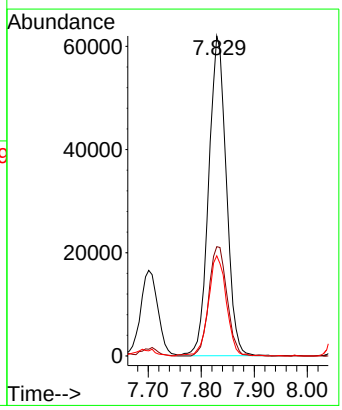
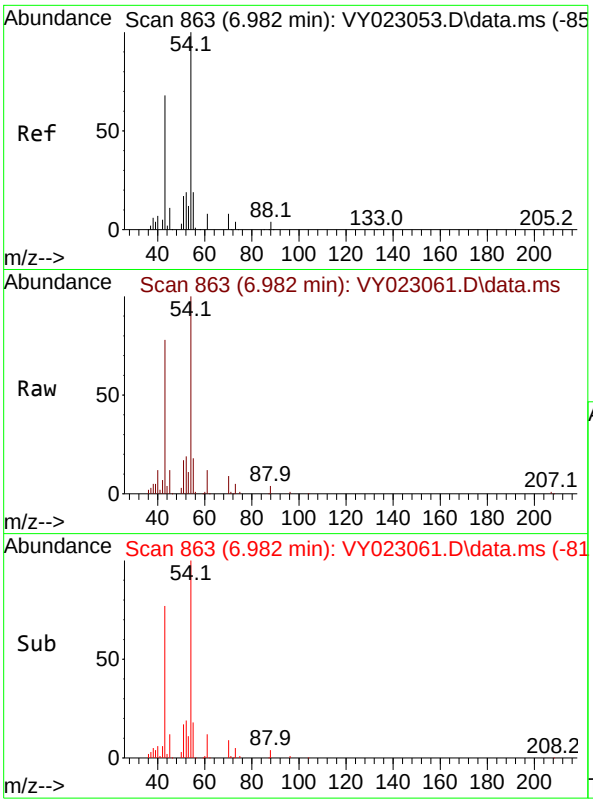


#36
1,1-Dichloropropene
Concen: 20.716 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 142922

Ion	Ratio	Lower	Upper
75	100		
110	35.3	18.1	54.4
77	32.0	24.6	37.0





#37
Ethyl Acetate
Concen: 19.200 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 5564

Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.9	17.9
70	11.3	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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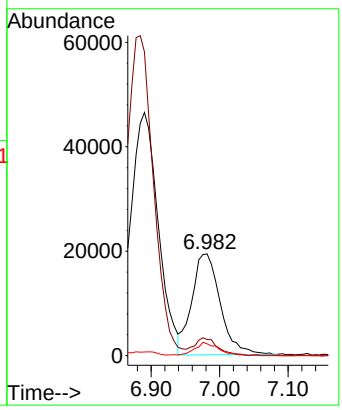
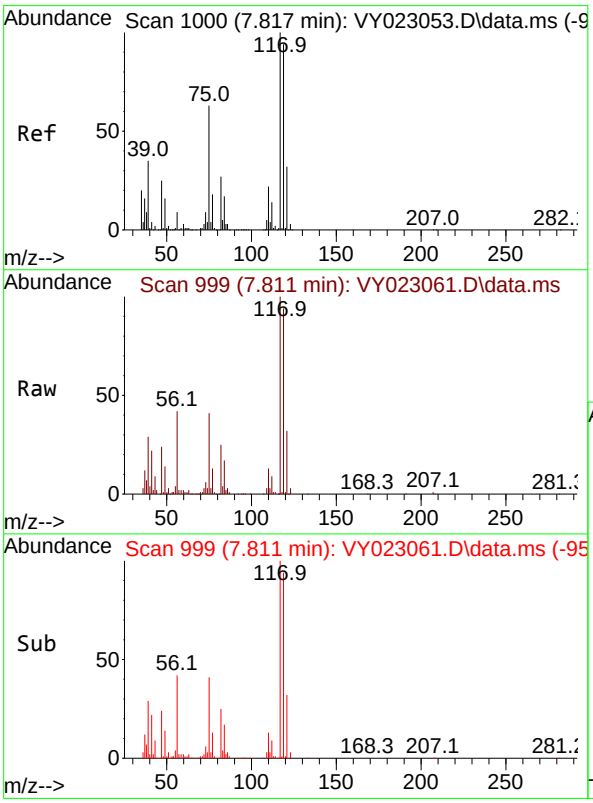
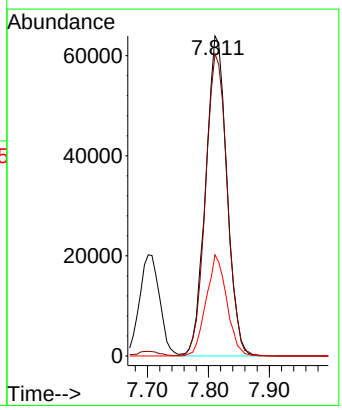


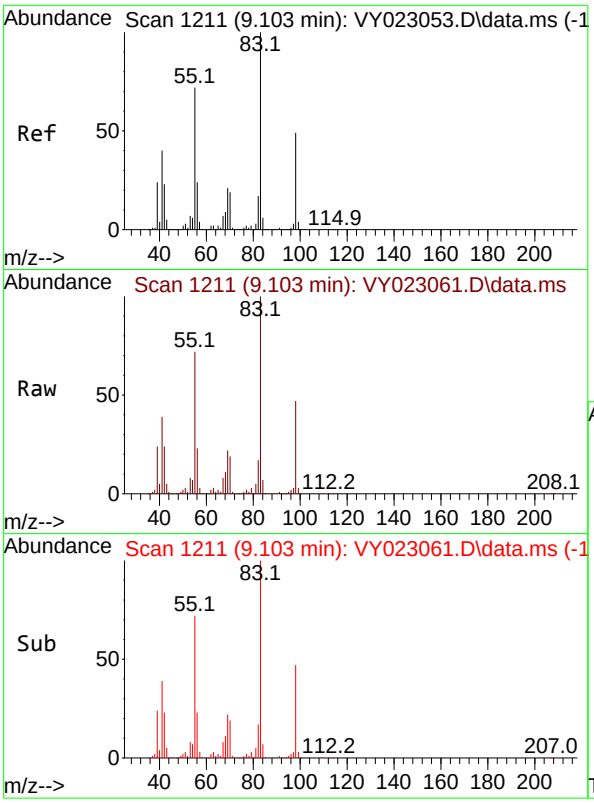


#38
Carbon Tetrachloride
Concen: 20.674 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 154916

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	31.6	25.8	38.8

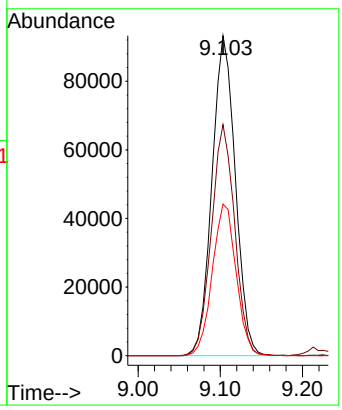




#39
Methylcyclohexane
Concen: 20.258 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 18405

Ion	Ratio	Lower	Upper
83	100		
55	72.2	57.6	86.4
98	47.4	39.2	58.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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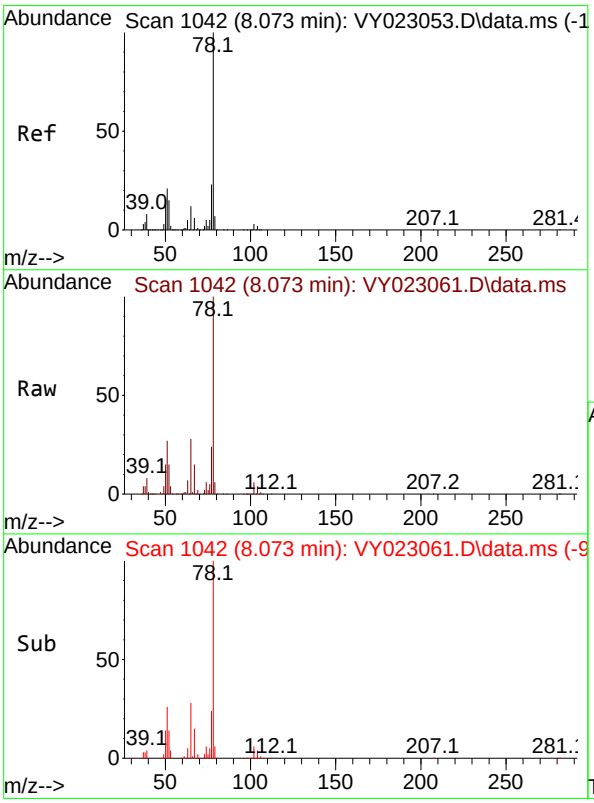
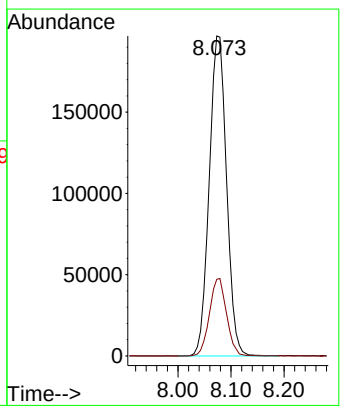
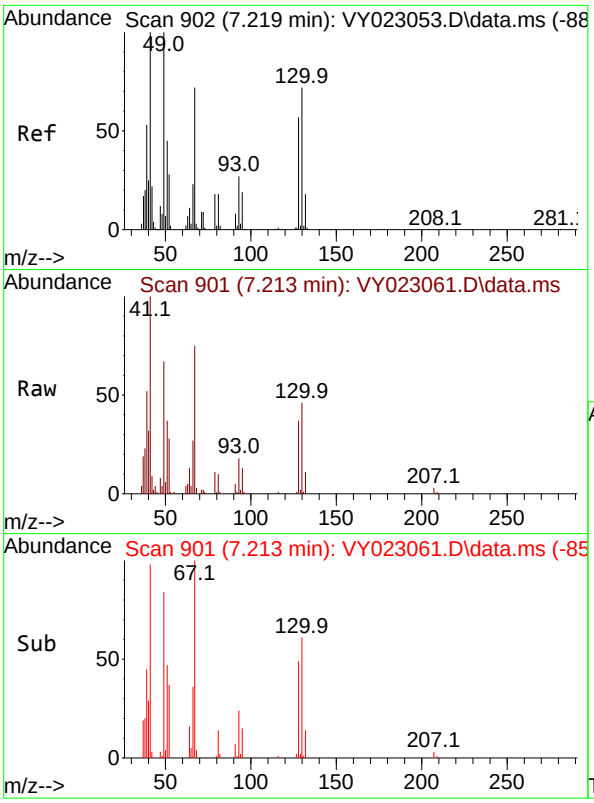


#40
Benzene
Concen: 21.020 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 78 Resp: 446973

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0

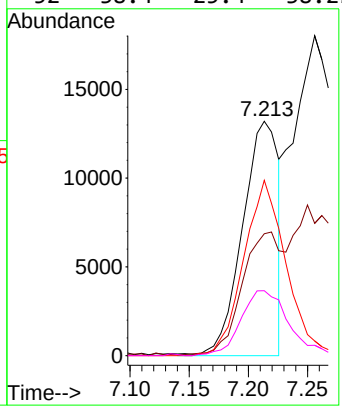




#41
Methacrylonitrile
Concen: 16.633 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 2781

Ion	Ratio	Lower	Upper
41	100		
39	60.7	43.4	65.2
67	88.9	63.6	95.4
52	38.4	25.4	38.2#



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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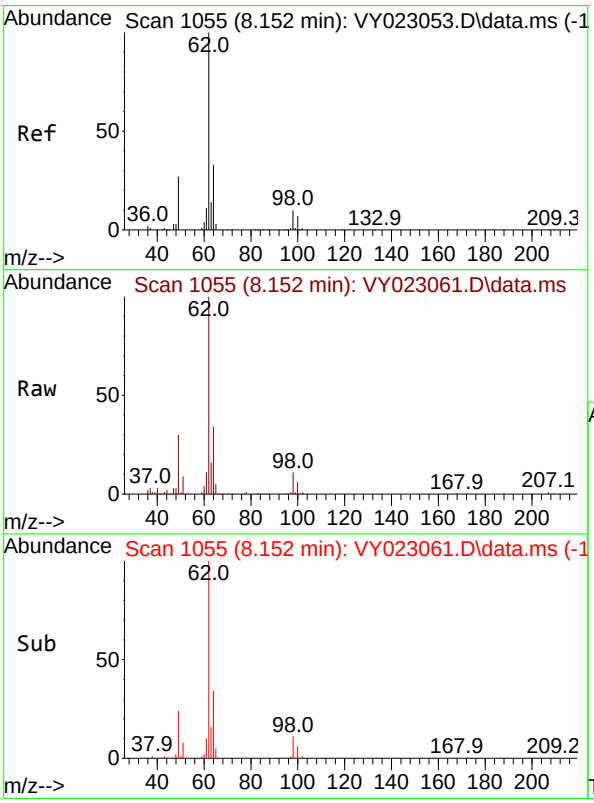
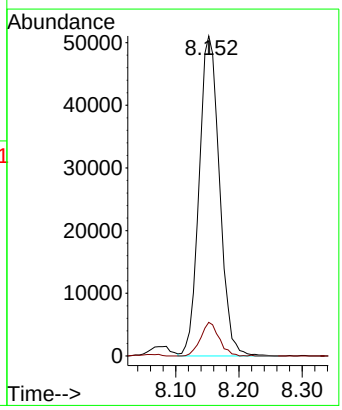
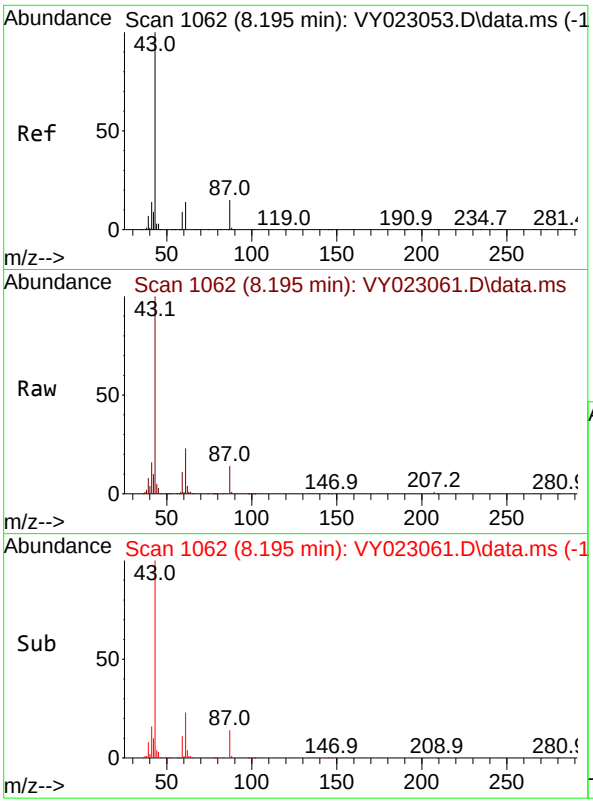


#42
1,2-Dichloroethane
Concen: 20.668 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 114299

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6

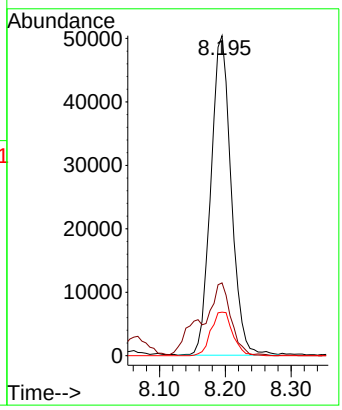




#43
Isopropyl Acetate
Concen: 18.507 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 10840

Ion	Ratio	Lower	Upper
43	100		
61	22.2	16.4	24.6
87	14.5	11.8	17.6



Instrument :
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ClientSampleId :
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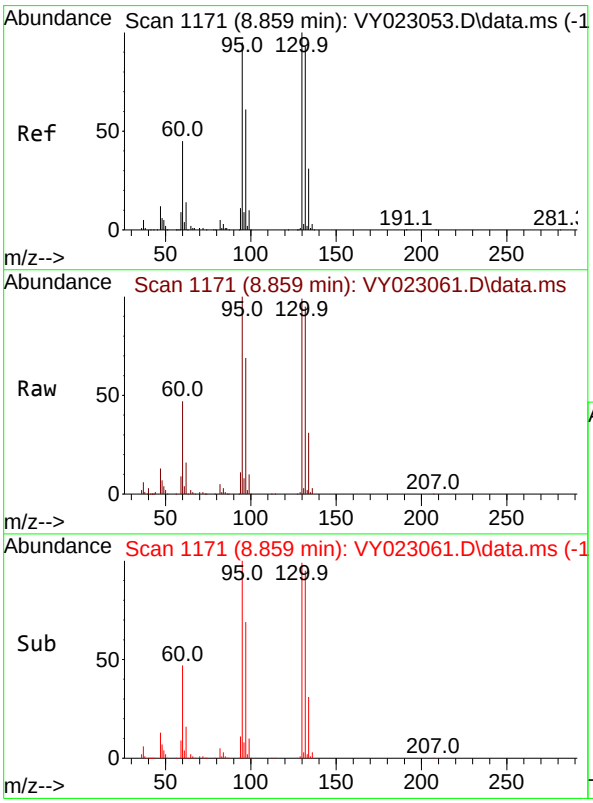
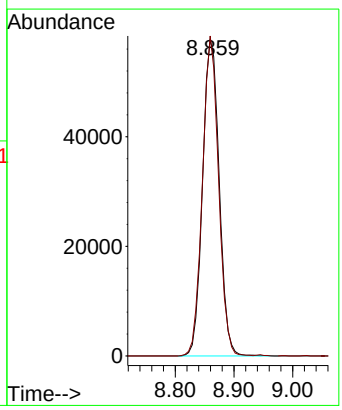
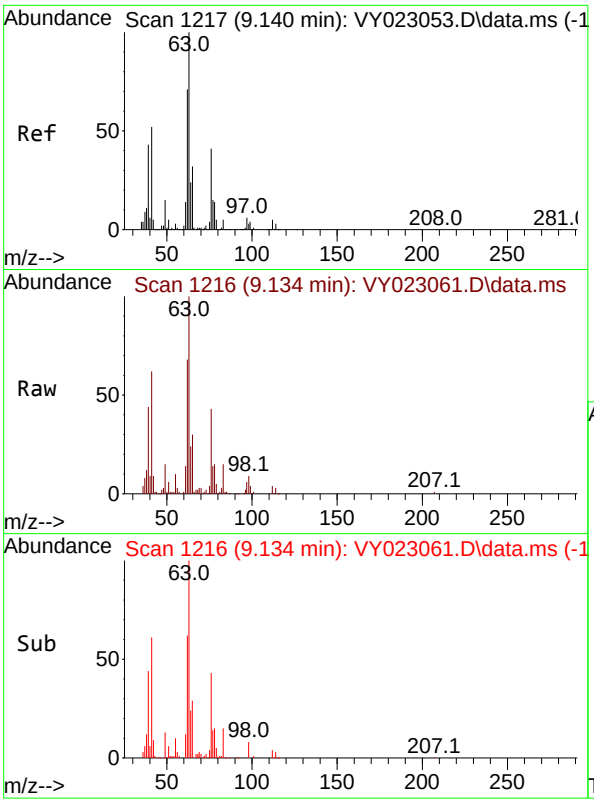


#44
Trichloroethene
Concen: 20.652 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:130 Resp: 113487

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	190.2





#45
1,2-Dichloropropane
Concen: 21.073 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 10310

Ion	Ratio	Lower	Upper
63	100		
65	29.8	25.3	37.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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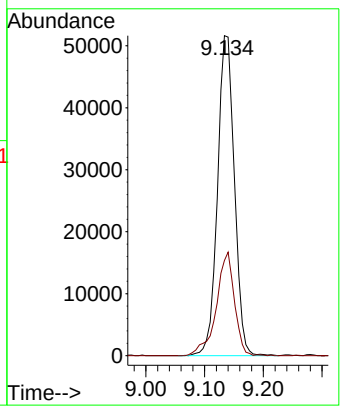
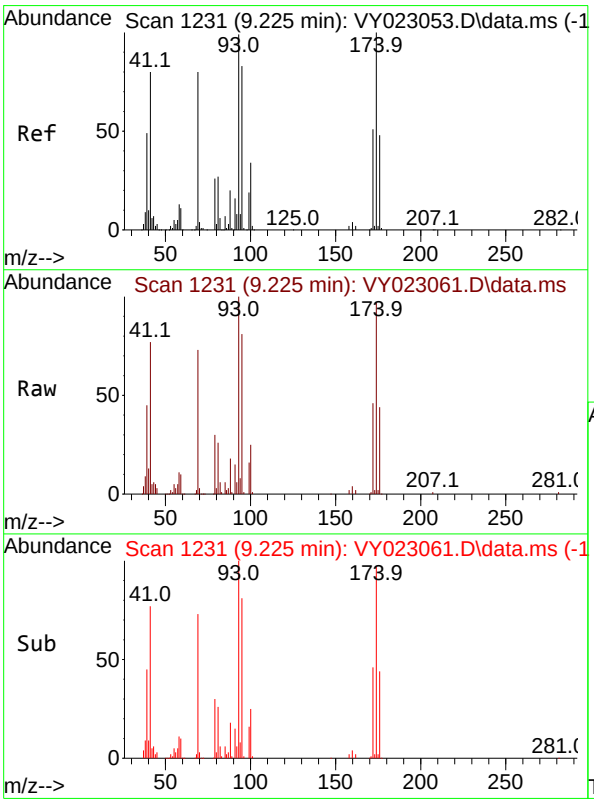
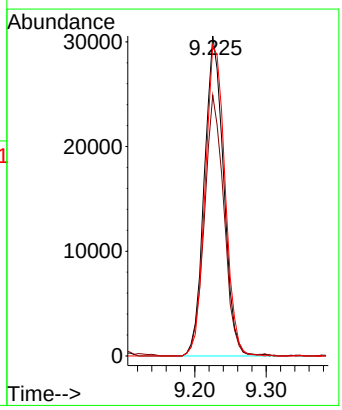


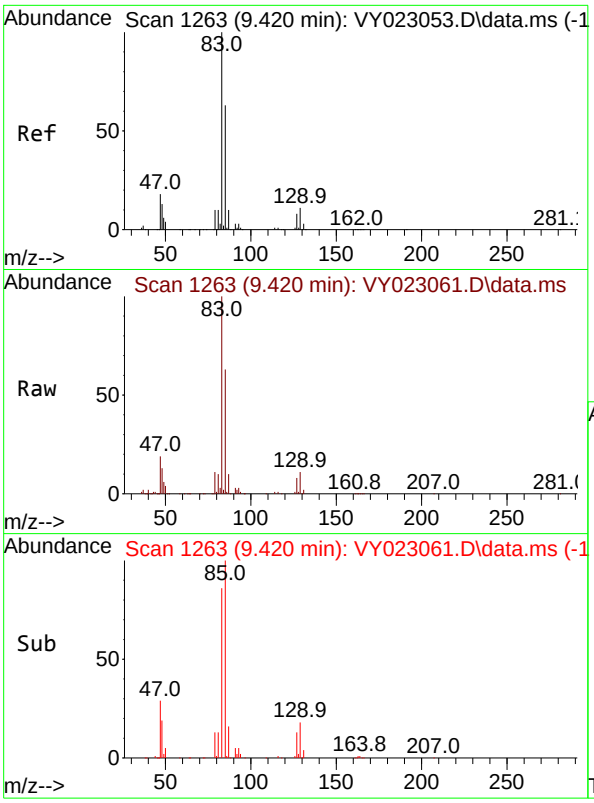


#46
Dibromomethane
Concen: 20.408 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 93 Resp: 57310

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.5	99.7
174	100.0	81.8	122.8

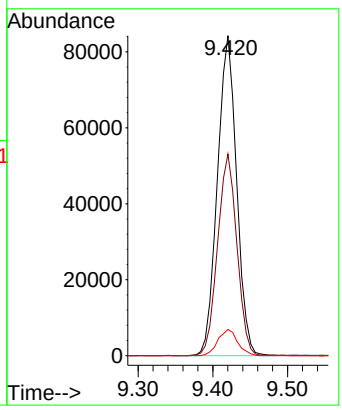




#47
Bromodichloromethane
Concen: 20.900 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 15102

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.2	75.4
127	8.2	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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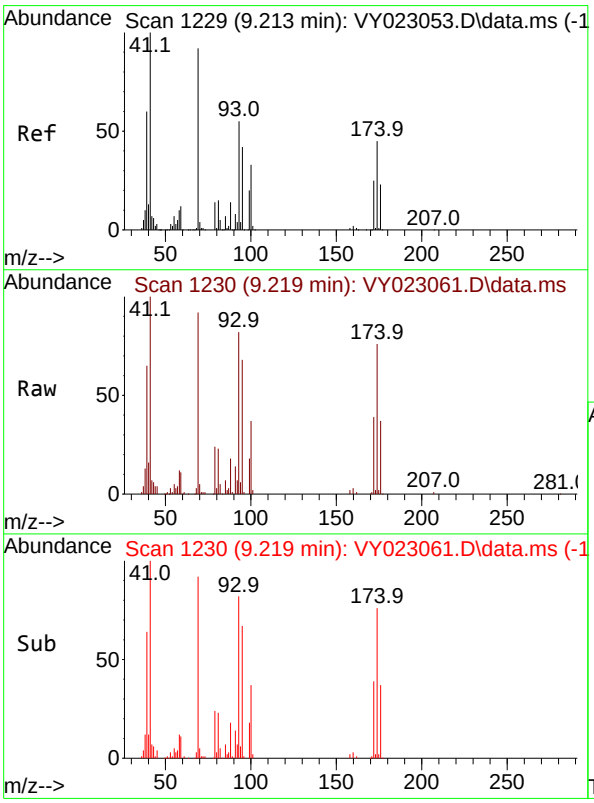
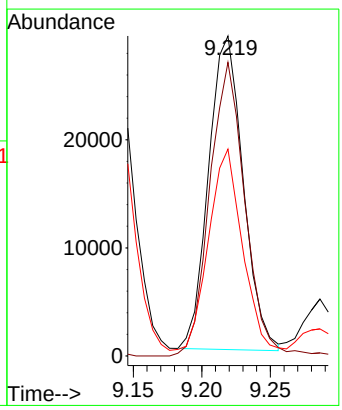
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

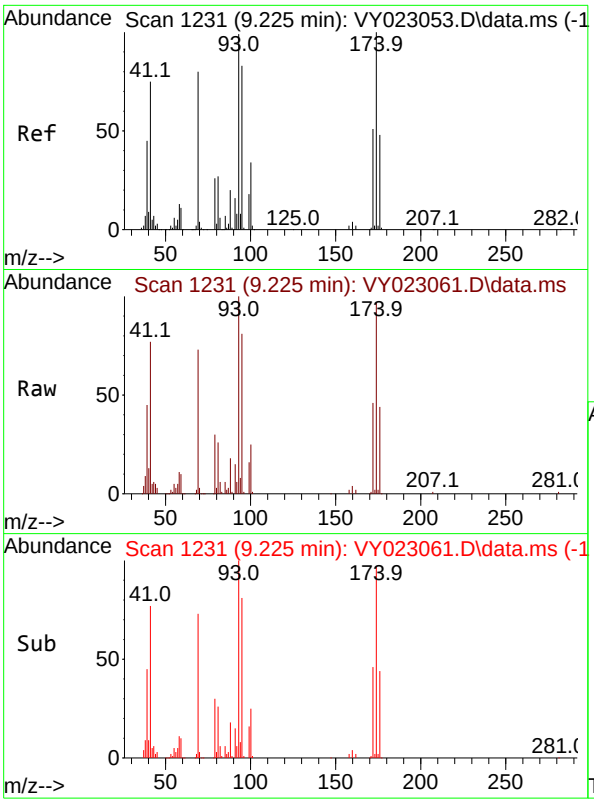


#48
Methyl methacrylate
Concen: 18.207 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 51033

Ion	Ratio	Lower	Upper
41	100		
69	95.5	73.2	109.8
39	62.7	47.0	70.4





#49
1,4-Dioxane
Concen: 405.561 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 88 Resp: 1335

Ion	Ratio	Lower	Upper
88	100		
43	29.7	24.3	36.5
58	68.0	55.4	83.0

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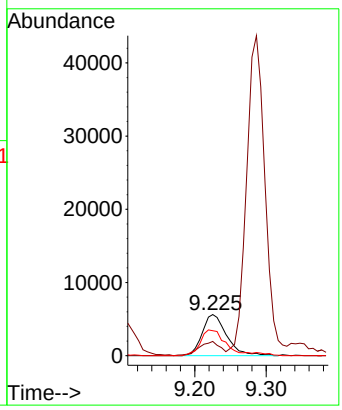
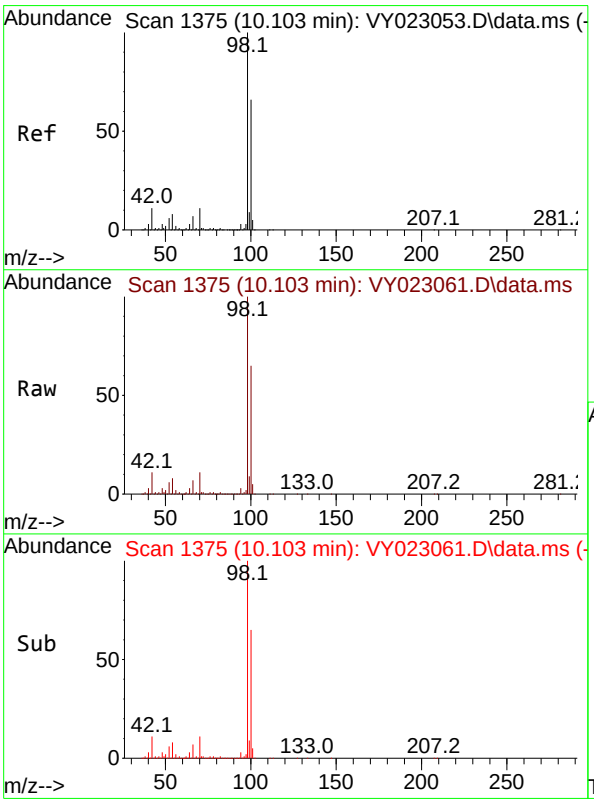
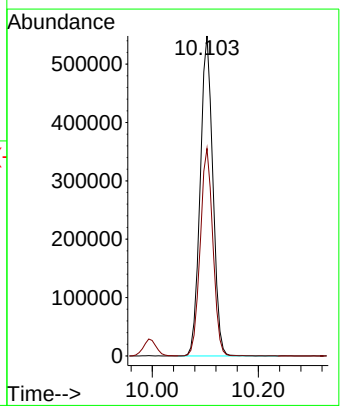


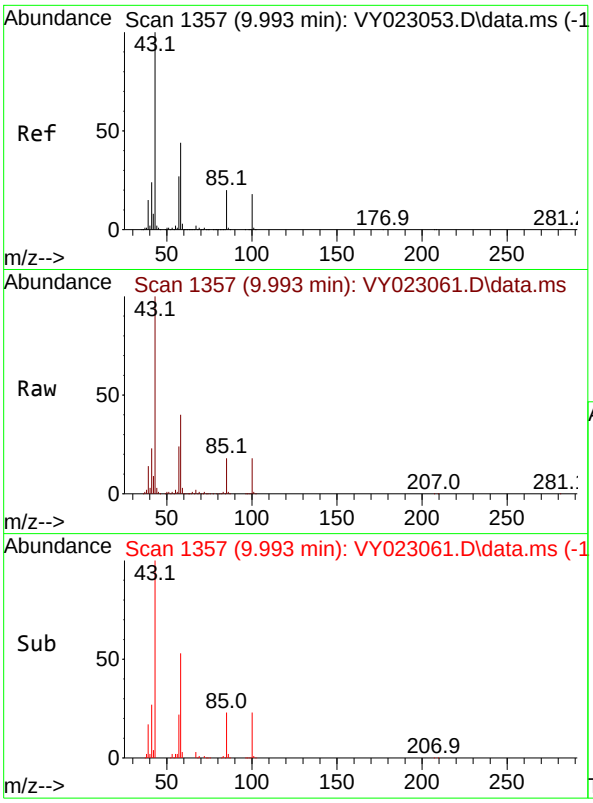


#50
Toluene-d8
Concen: 49.992 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 98 Resp: 906626

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.3	78.5

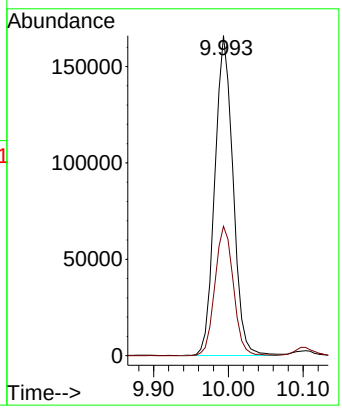




#51
4-Methyl-2-Pentanone
Concen: 93.183 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 28155

Ion	Ratio	Lower	Upper
43	100		
58	41.1	33.5	50.3



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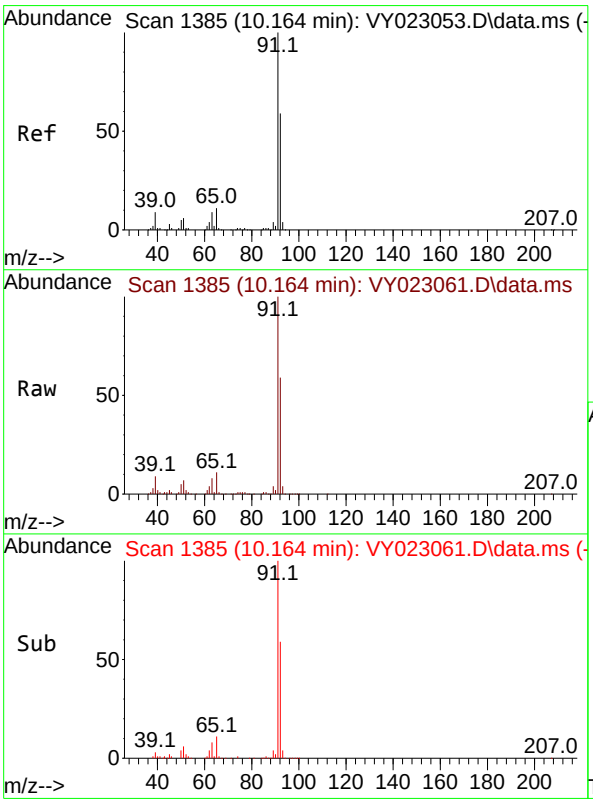
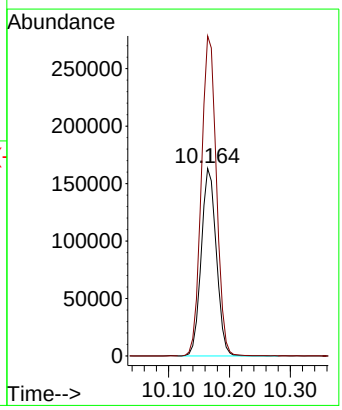
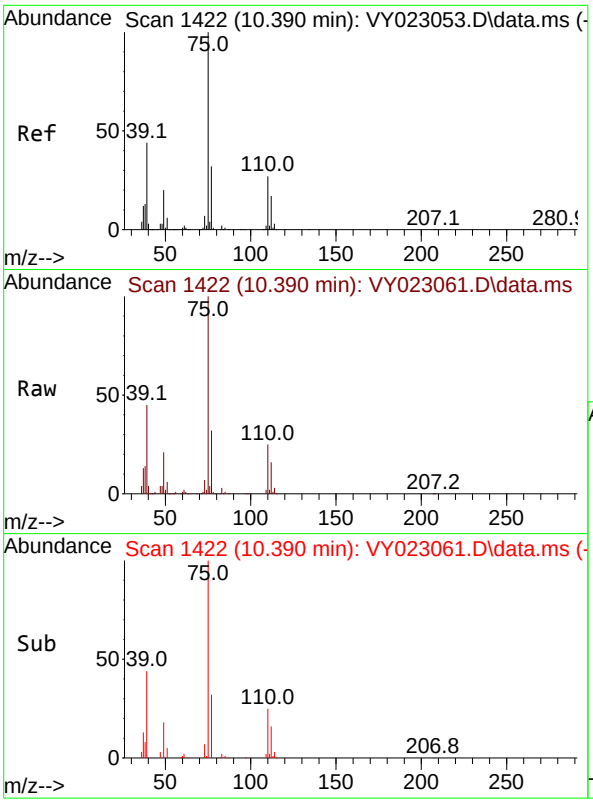


#52
Toluene
Concen: 20.769 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 92 Resp: 280495

Ion	Ratio	Lower	Upper
92	100		
91	170.9	136.4	204.6

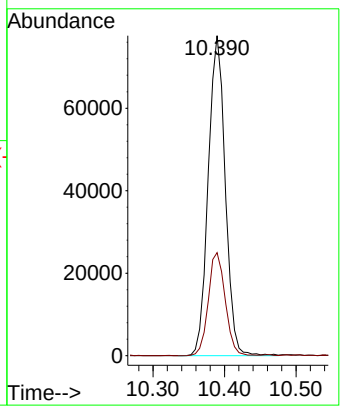




#53
t-1,3-Dichloropropene
Concen: 19.584 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 12814

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.7	38.5



Instrument :
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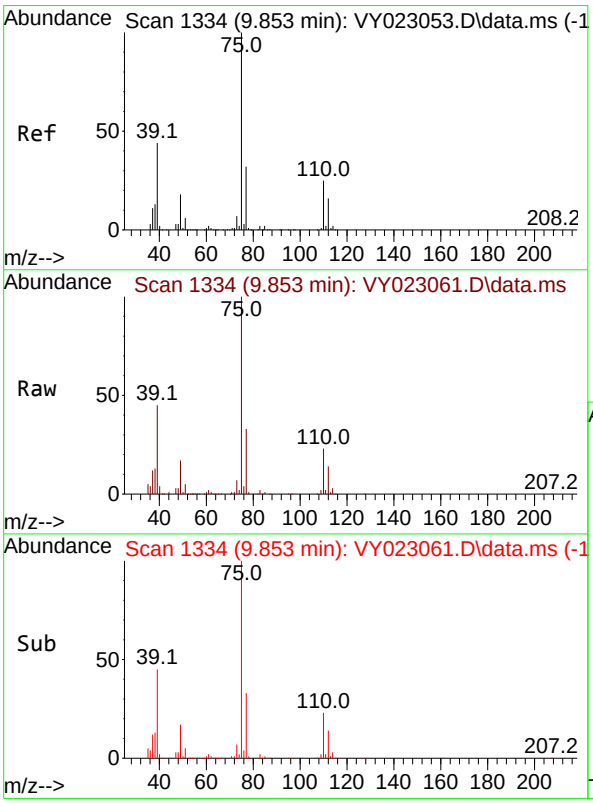
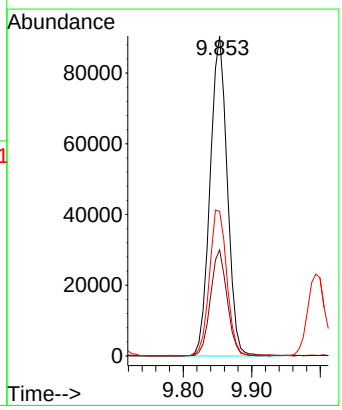
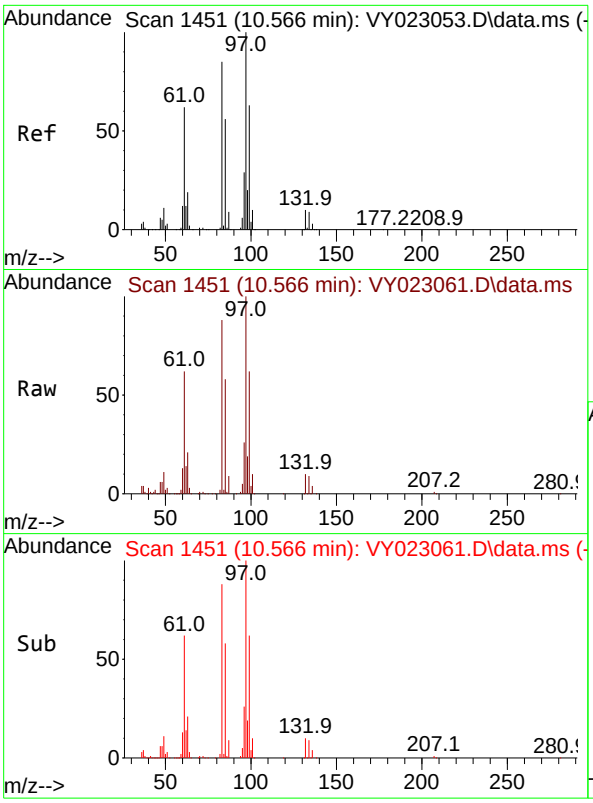


#54
cis-1,3-Dichloropropene
Concen: 20.305 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 157108

Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.4	38.0
39	45.1	35.6	53.4

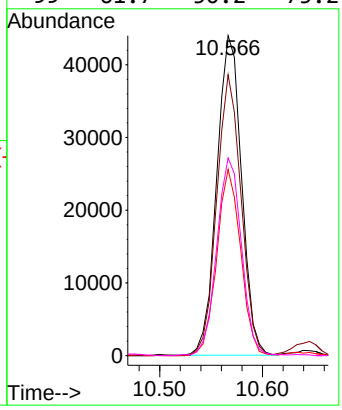




#55
1,1,2-Trichloroethane
Concen: 19.554 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 97 Resp: 7347

Ion	Ratio	Lower	Upper
97	100		
83	87.9	67.7	101.5
85	58.3	44.5	66.7
99	61.7	50.2	75.2



Instrument :
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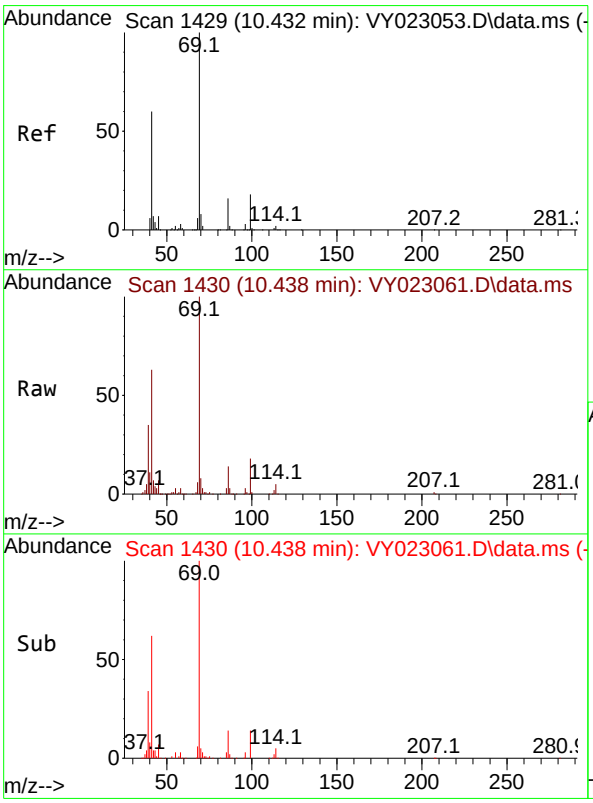
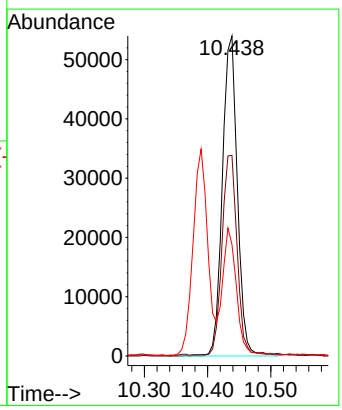
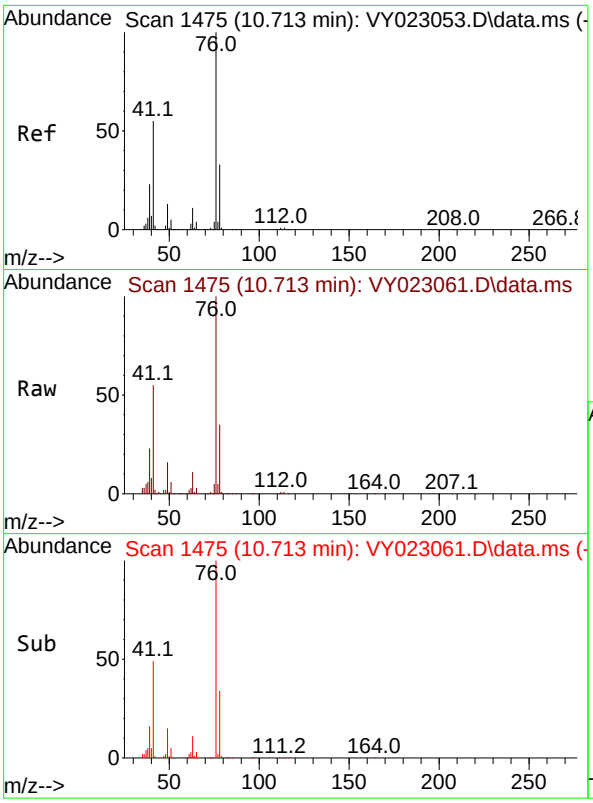


#56
Ethyl methacrylate
Concen: 18.338 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 69 Resp: 88174

Ion	Ratio	Lower	Upper
69	100		
41	62.4	48.6	72.8
39	35.5	27.0	40.4

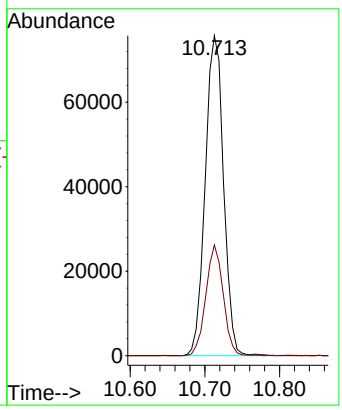




#57
1,3-Dichloropropane
Concen: 20.247 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 76 Resp: 12902

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.0	39.0



Instrument :
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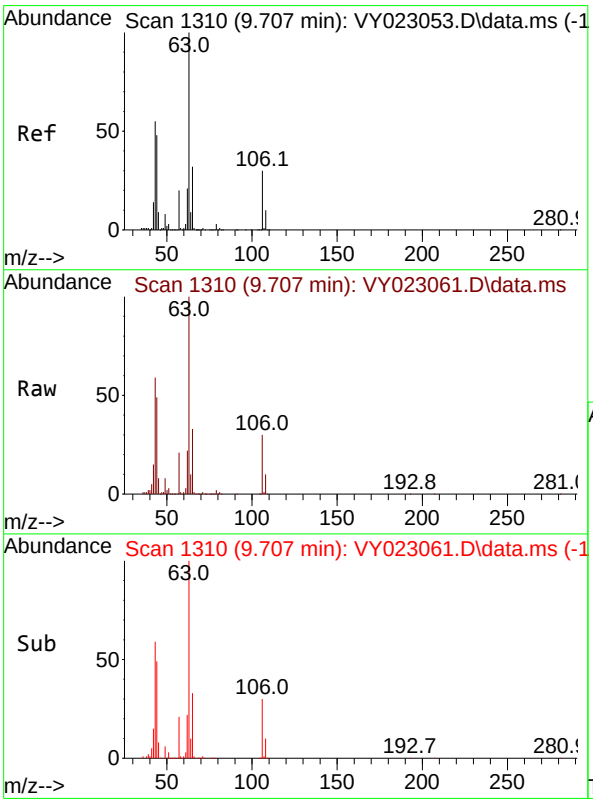
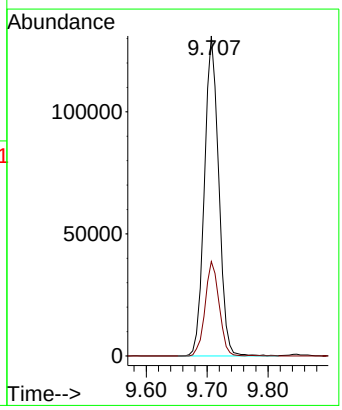
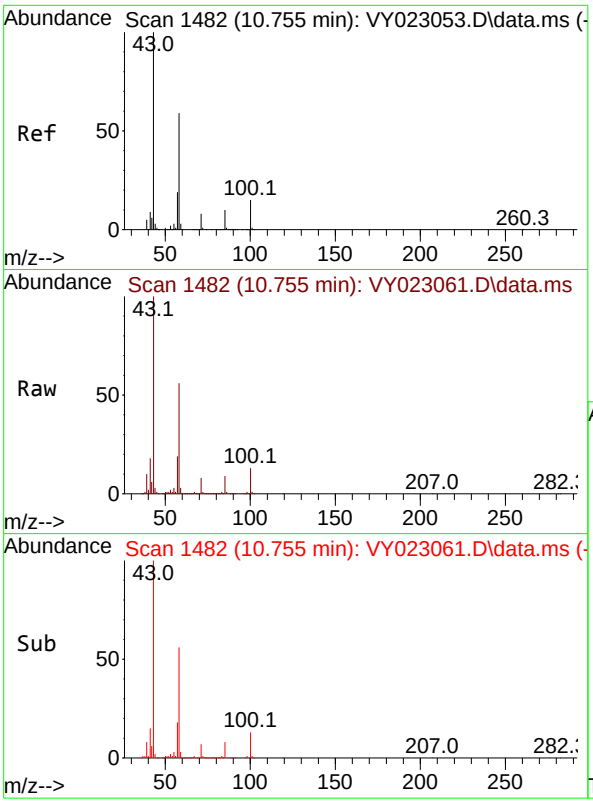


#58
2-Chloroethyl Vinyl ether
Concen: 94.383 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 214069

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8





#59
2-Hexanone
Concen: 92.987 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 19131

Ion	Ratio	Lower	Upper
43	100		
58	57.0	29.5	88.5

Instrument :
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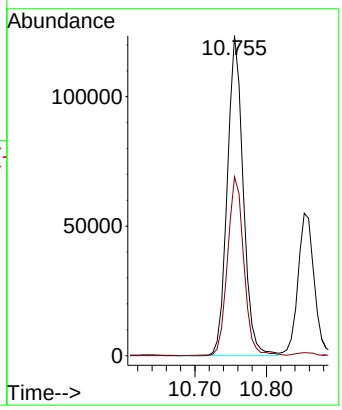
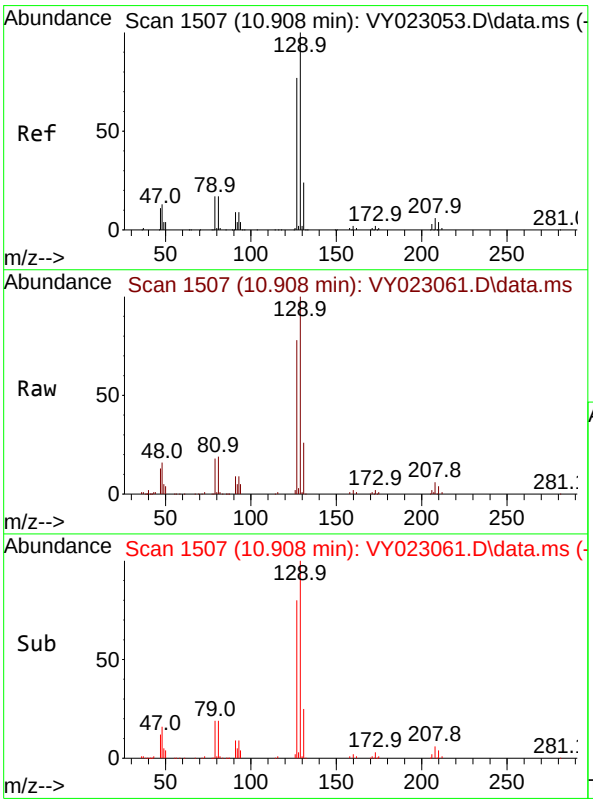
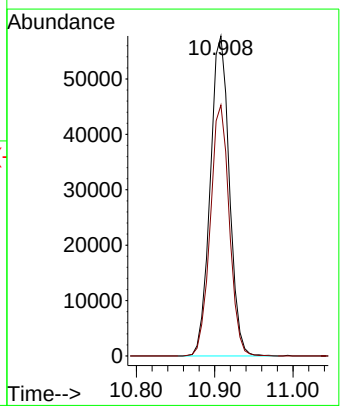


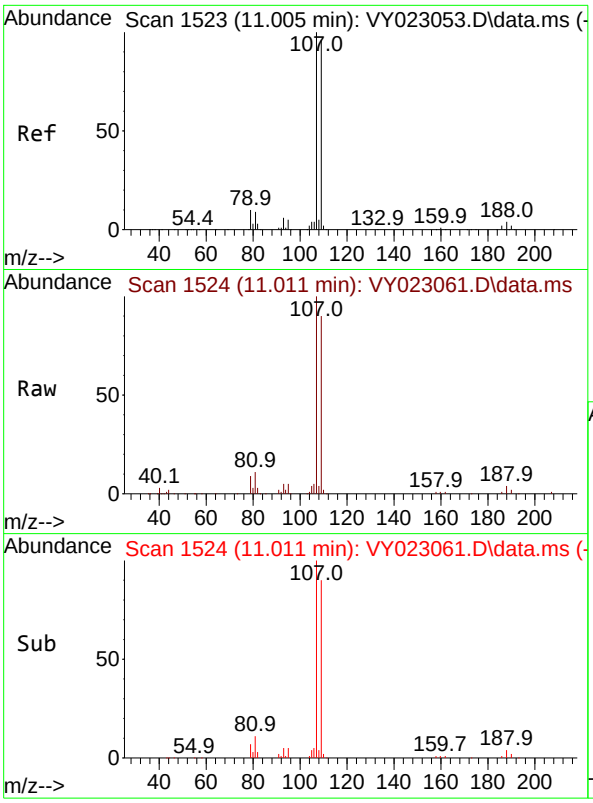


#60
Dibromochloromethane
Concen: 19.755 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:129 Resp: 97950

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5

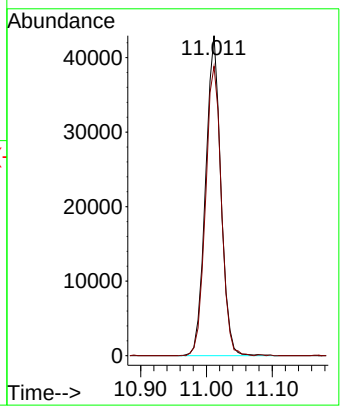




#61
1,2-Dibromoethane
Concen: 19.632 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:107 Resp: 6933

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.6	113.4



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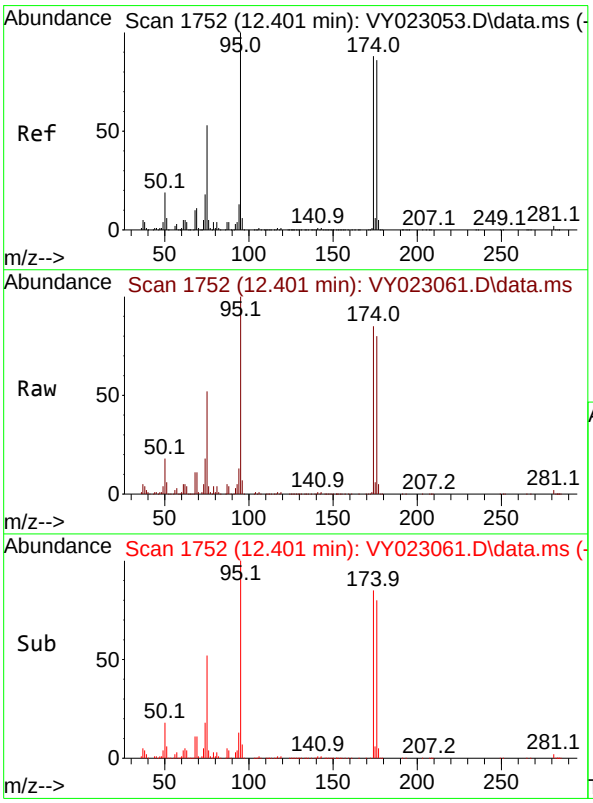
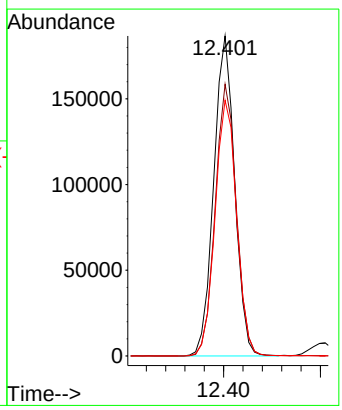
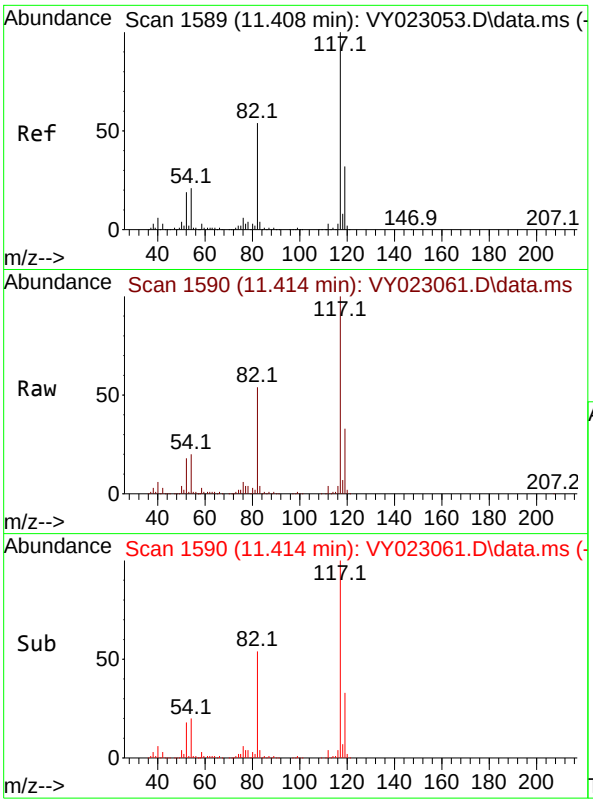


#62
4-Bromofluorobenzene
Concen: 47.943 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 95 Resp: 279619

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	171.6
176	82.3	0.0	167.6

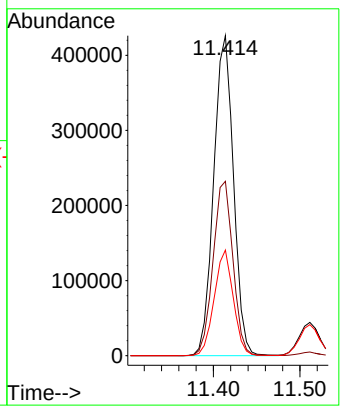




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 67592

Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.0
119	33.0	25.6	38.4



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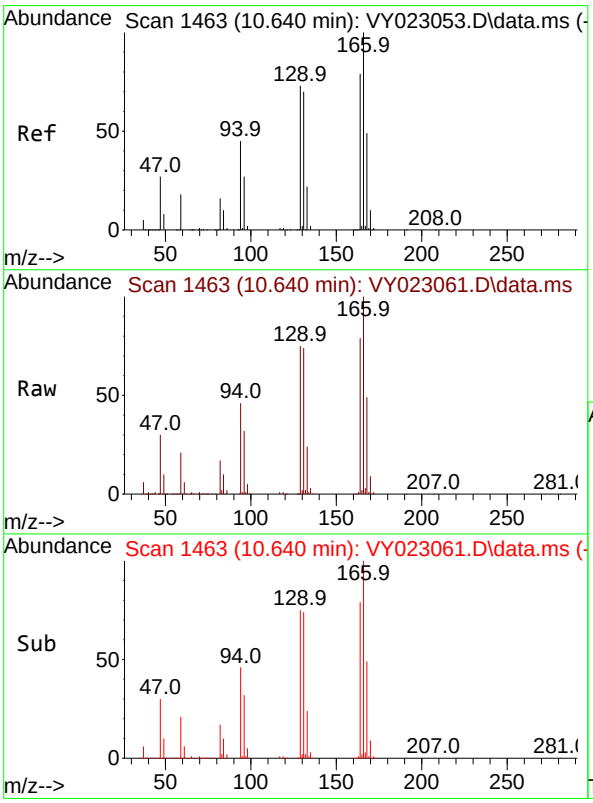
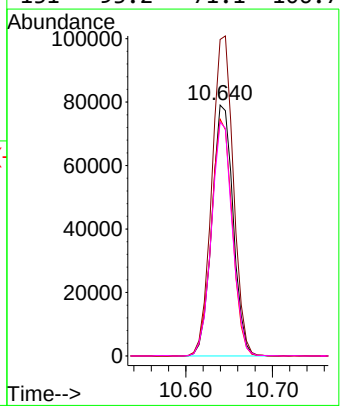
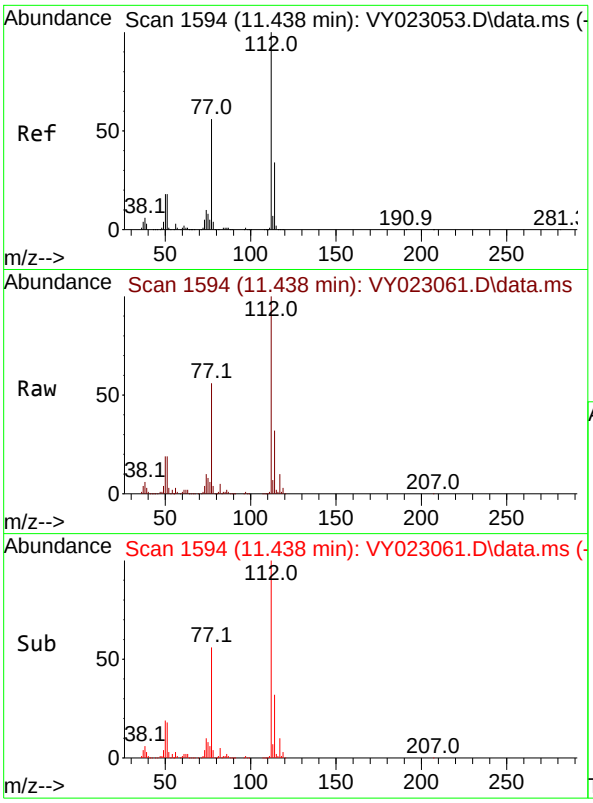


#64
Tetrachloroethene
Concen: 22.223 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:164 Resp: 134131

Ion	Ratio	Lower	Upper
164	100		
166	126.1	101.1	151.7
129	94.4	74.0	111.0
131	93.2	71.1	106.7

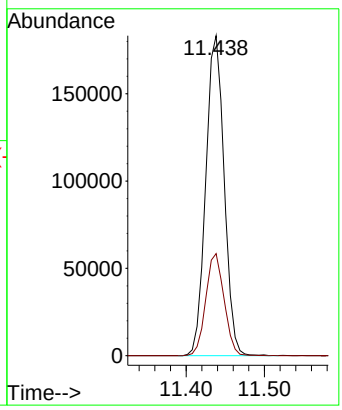




#65
Chlorobenzene
Concen: 20.431 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:112 Resp: 29787

Ion	Ratio	Lower	Upper
112	100		
114	31.9	27.0	40.4



Instrument :
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ClientSampleId :
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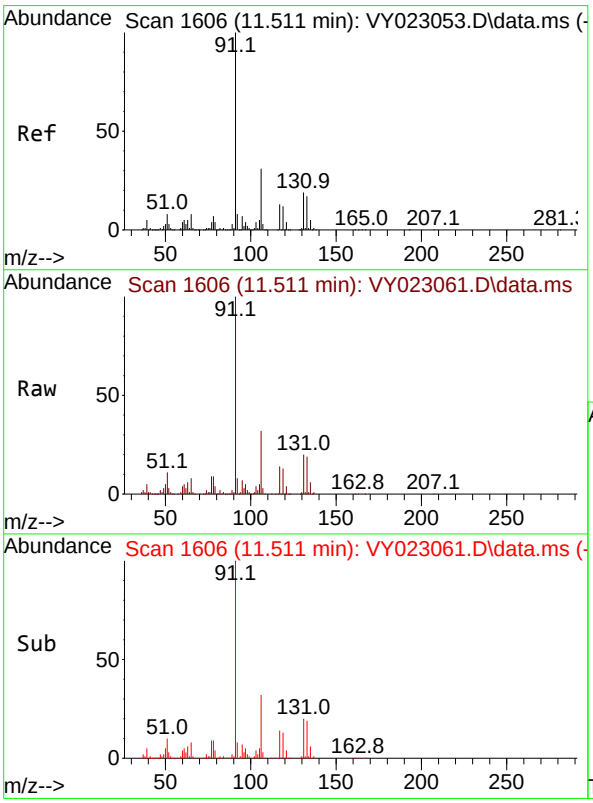
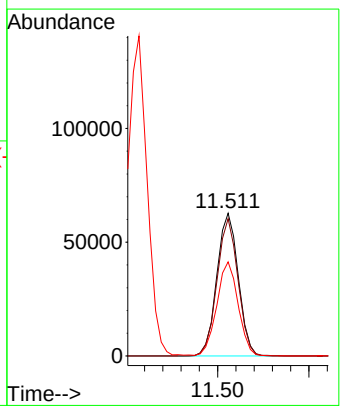
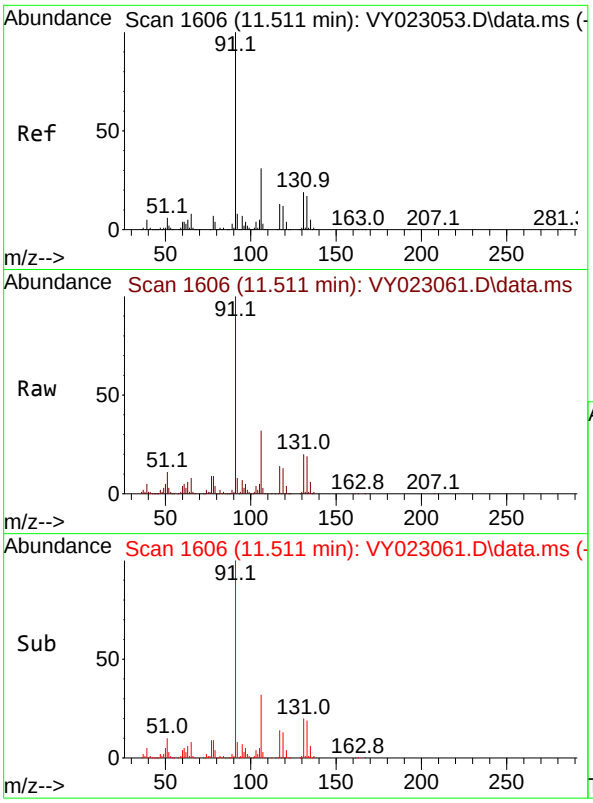


#66
1,1,1,2-Tetrachloroethane
Concen: 20.592 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:131 Resp: 101895

Ion	Ratio	Lower	Upper
131	100		
133	94.6	46.9	140.6
119	65.9	33.2	99.6

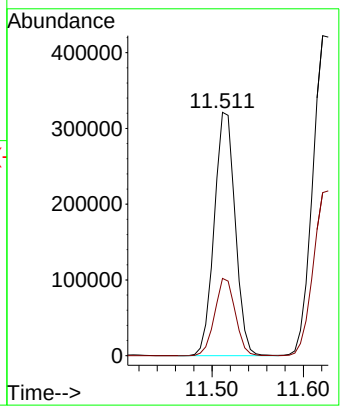




#67
Ethyl Benzene
Concen: 20.430 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 51258

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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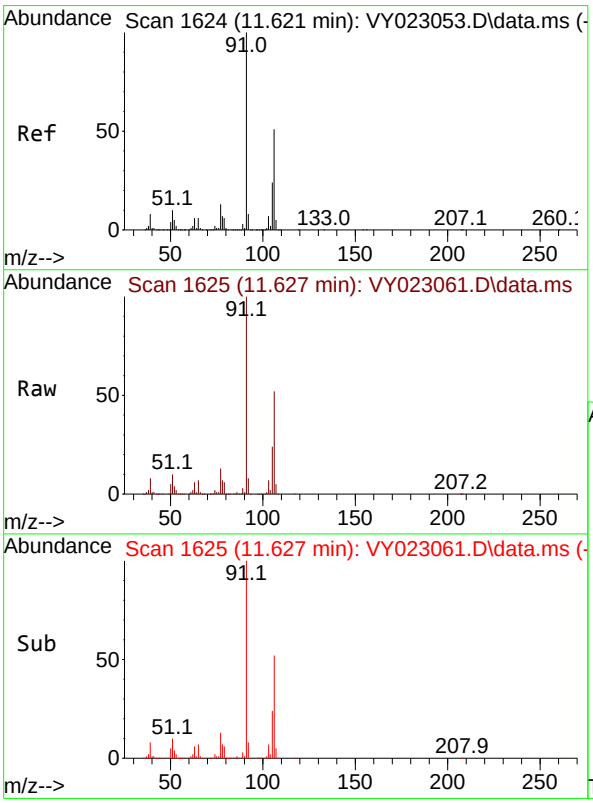
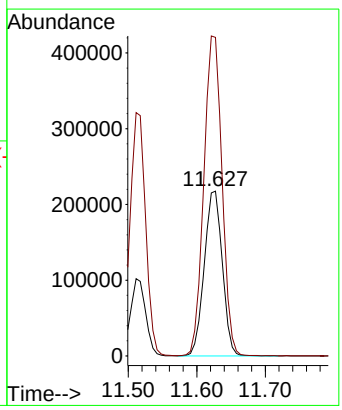
Supervised By :Semsettin Yesilyurt 08/19/2025

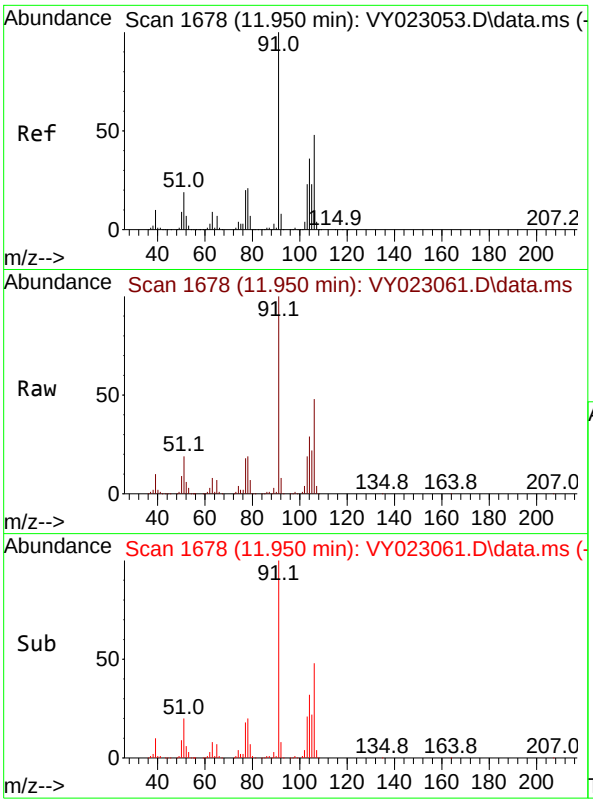


#68
m/p-Xylenes
Concen: 40.752 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:106 Resp: 399348

Ion	Ratio	Lower	Upper
106	100		
91	195.8	158.6	238.0

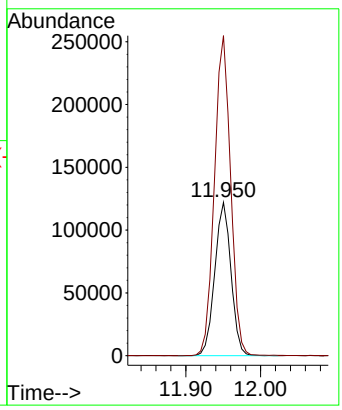




#69
o-Xylene
Concen: 20.065 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:106 Resp: 18415

Ion	Ratio	Lower	Upper
106	100		
91	209.2	103.2	309.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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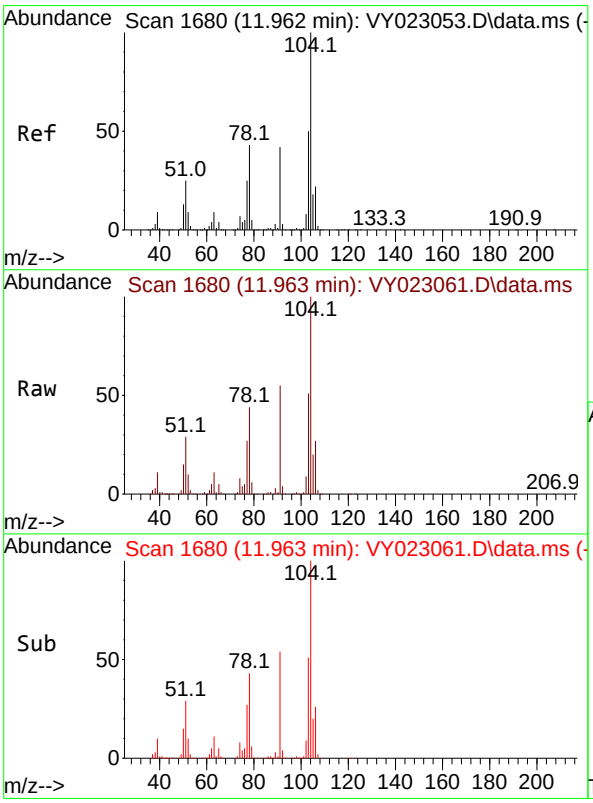
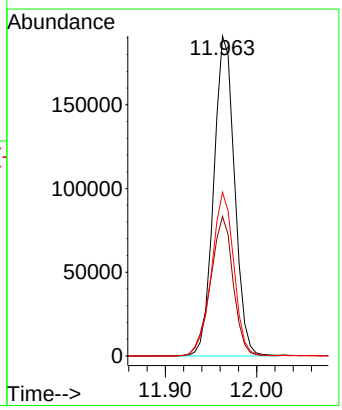
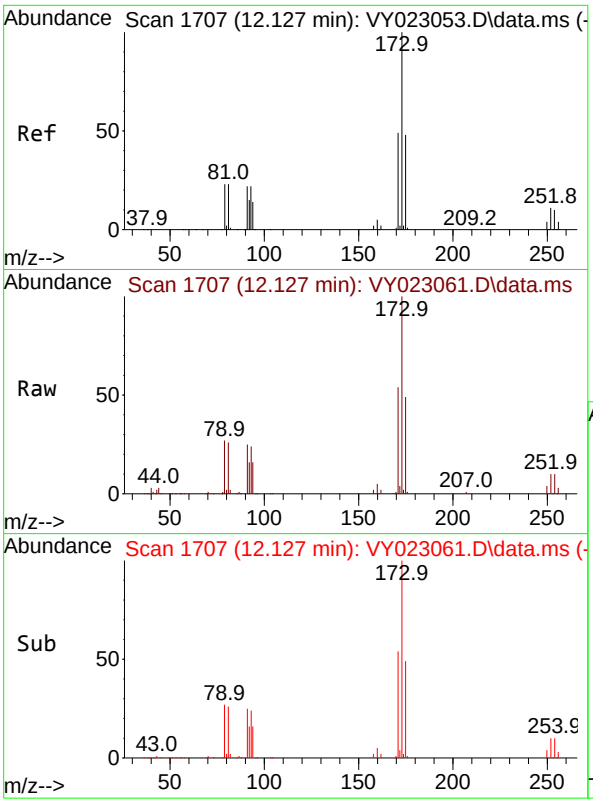


#70
Styrene
Concen: 20.179 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:104 Resp: 302870

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	54.5	43.7	65.5

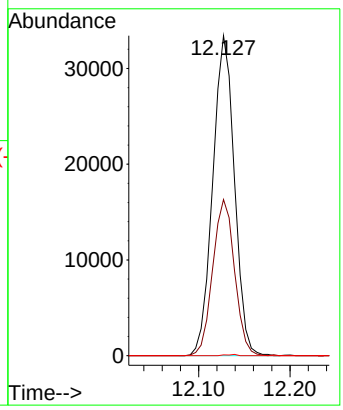




#71
Bromoform
Concen: 19.039 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:173 Resp: 5506

Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.9	71.7
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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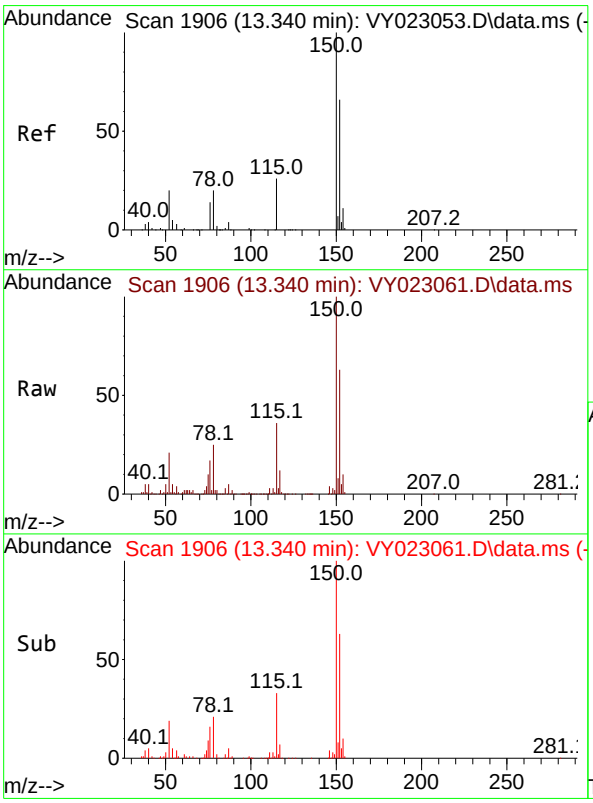
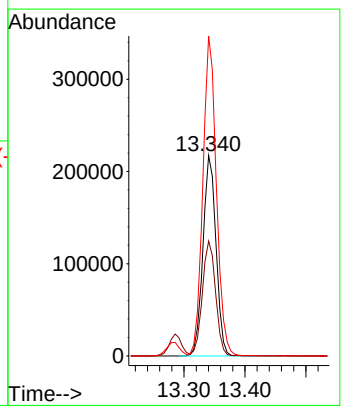
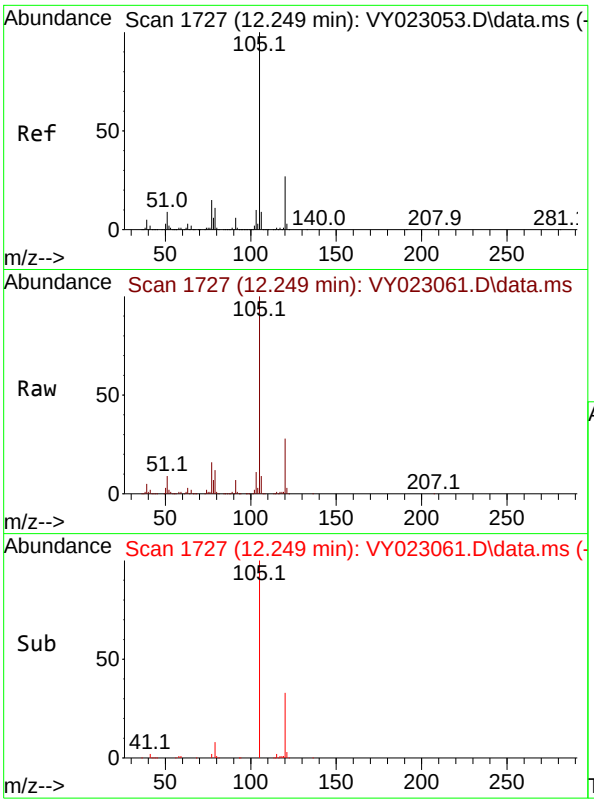


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:152 Resp: 325106

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.2	84.6
150	164.8	0.0	348.0

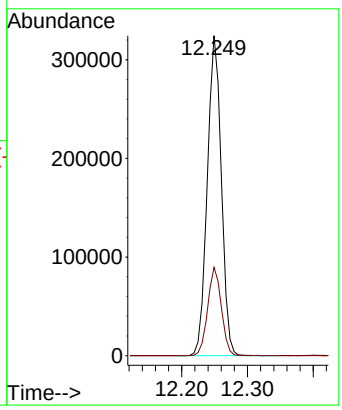




#73
Isopropylbenzene
Concen: 20.975 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 48127

Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
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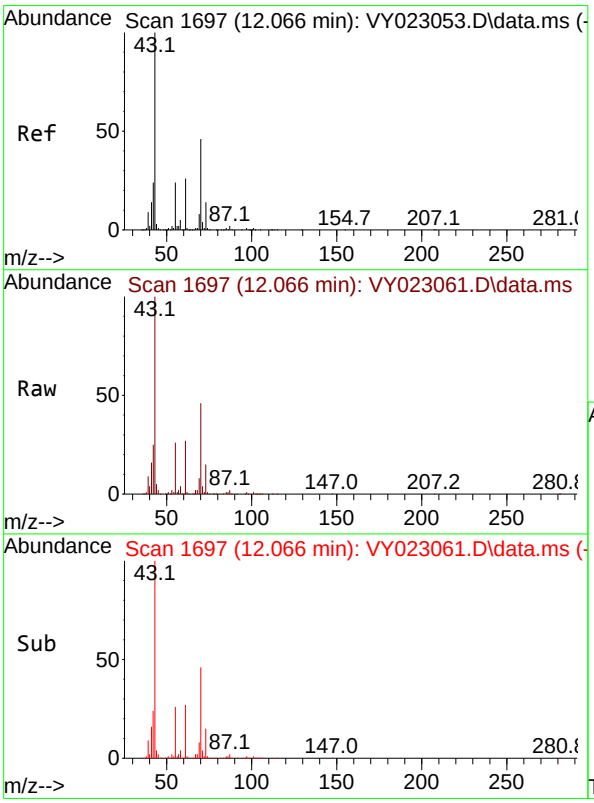
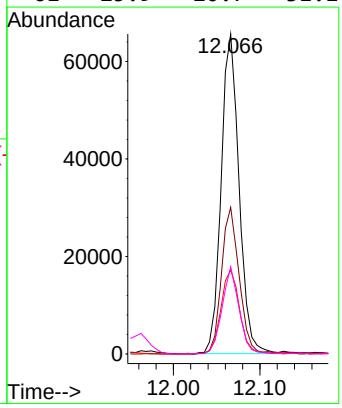
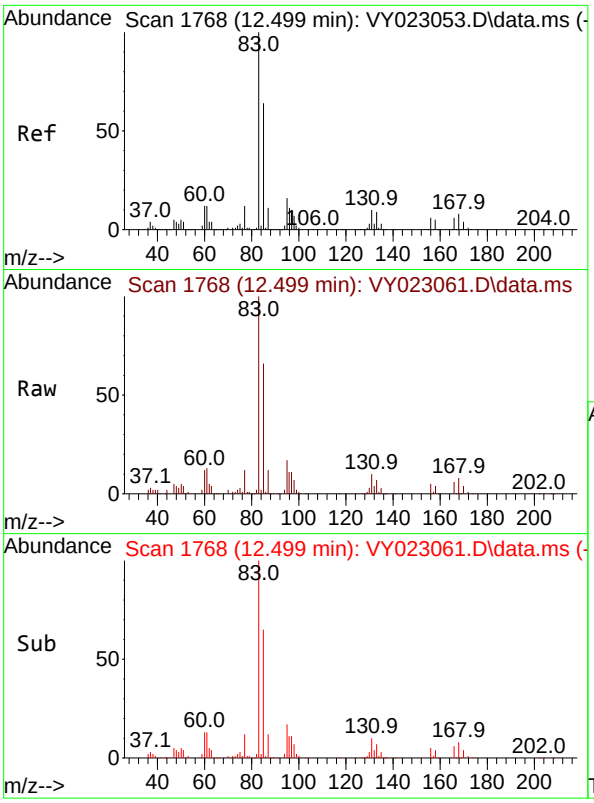


#74
N-amyl acetate
Concen: 19.346 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 94137

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.5	56.3
55	27.5	20.7	31.1
61	25.9	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 18.344 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 7187

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.1	15.3
85	64.7	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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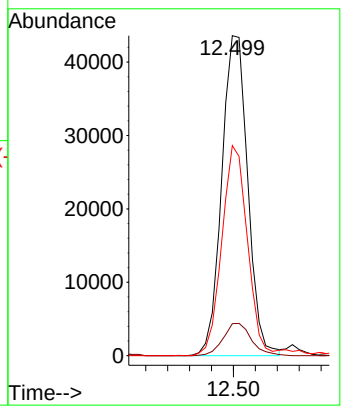
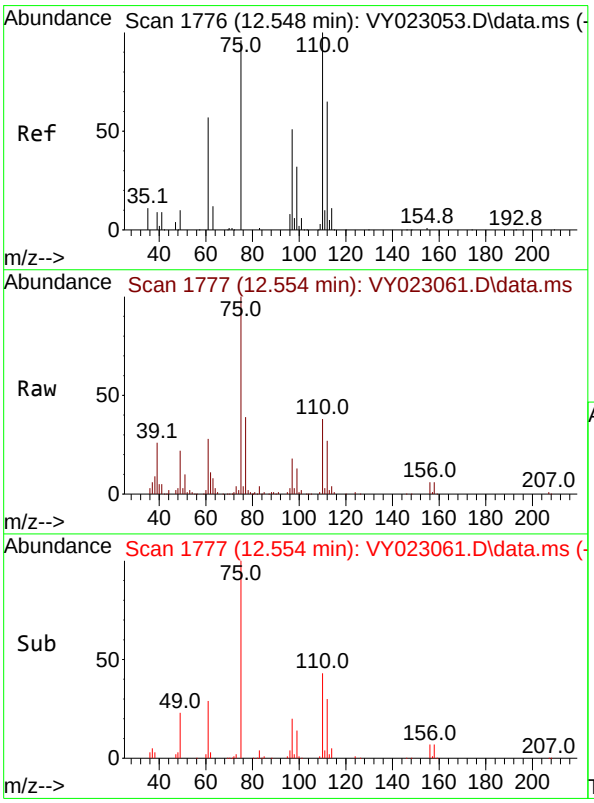
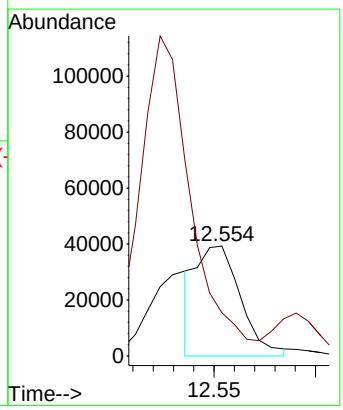


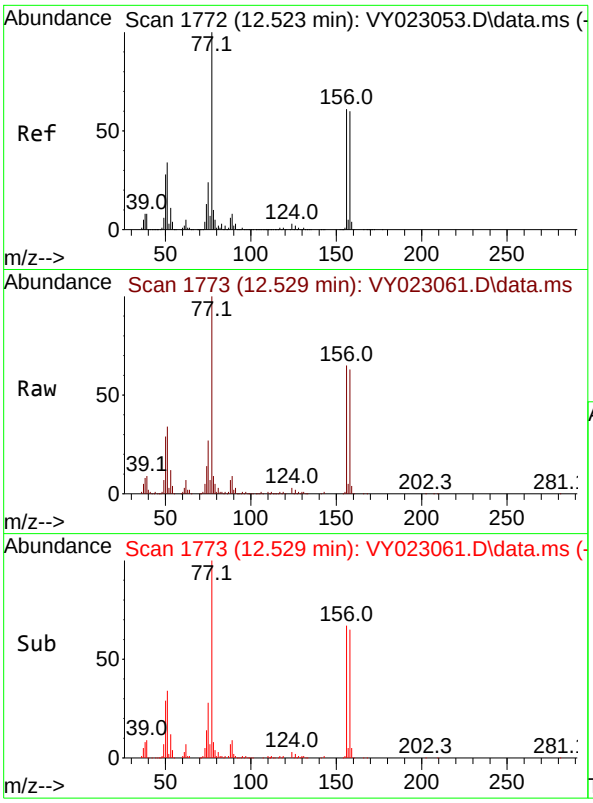


#76
1,2,3-Trichloropropane
Concen: 18.993 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 59594

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

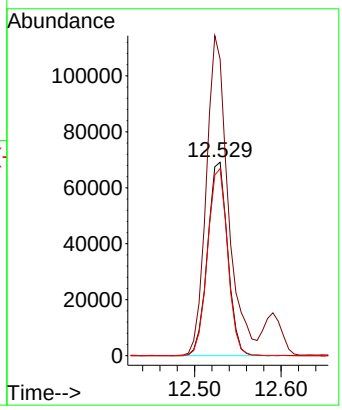




#77
Bromobenzene
Concen: 20.369 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:156 Resp: 11150

Ion	Ratio	Lower	Upper
156	100		
77	180.3	88.1	264.4
158	96.4	48.0	144.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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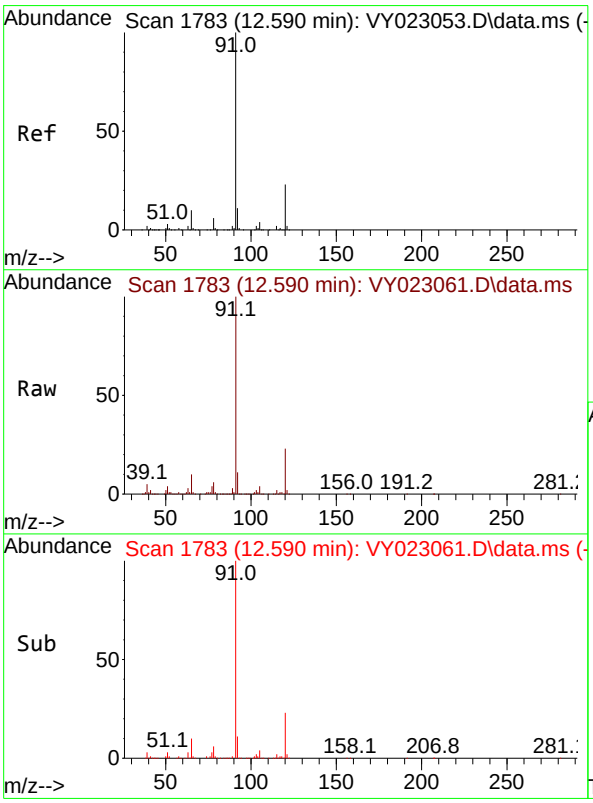
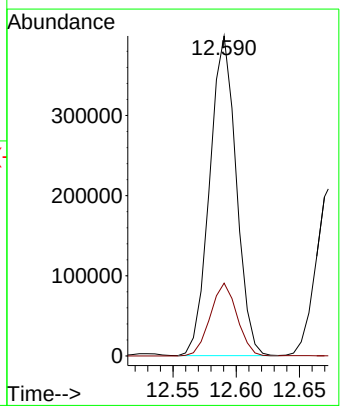
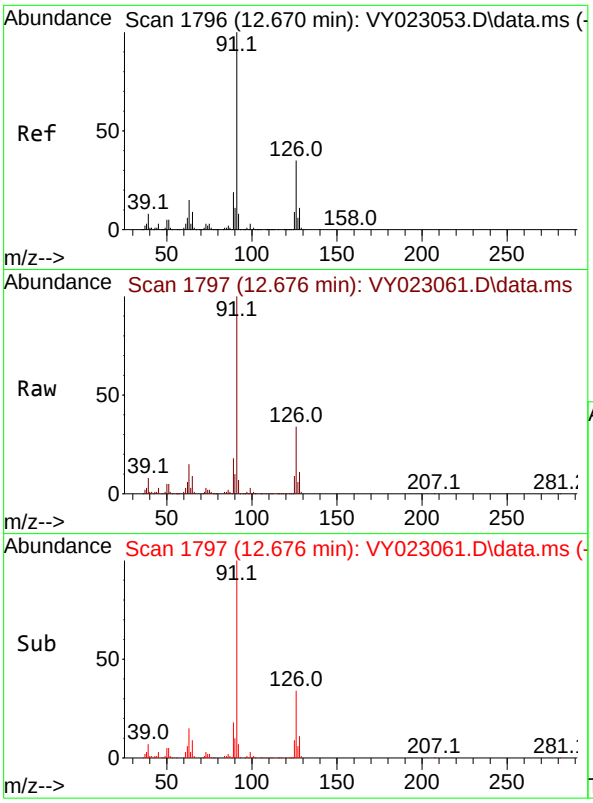


#78
n-propylbenzene
Concen: 21.291 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 581635

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5

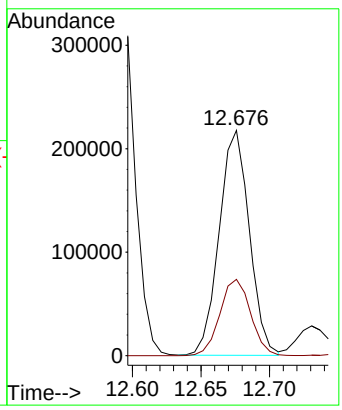




#79
2-Chlorotoluene
Concen: 21.244 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 33251

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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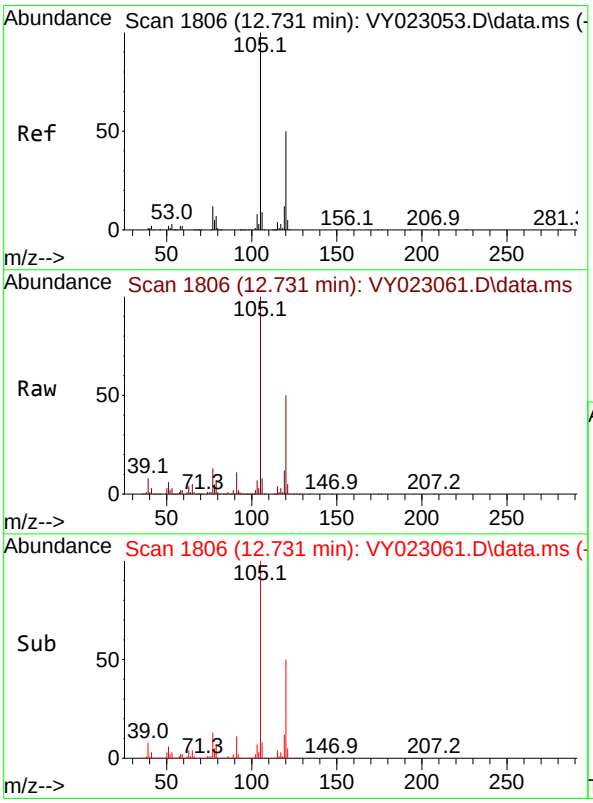
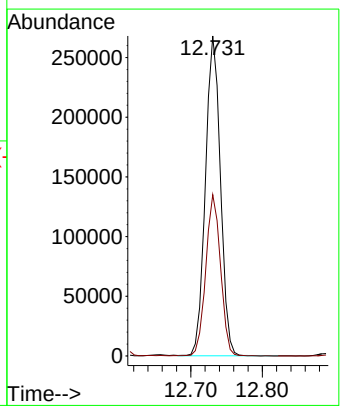
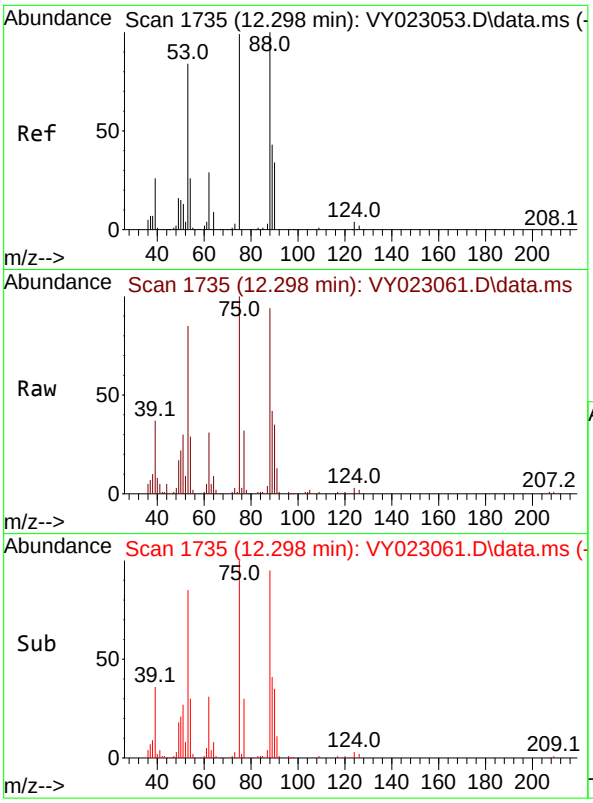


#80
1,3,5-Trimethylbenzene
Concen: 21.055 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390462

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 19.514 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 2529

Ion	Ratio	Lower	Upper
75	100		
53	88.0	70.8	106.2
89	43.7	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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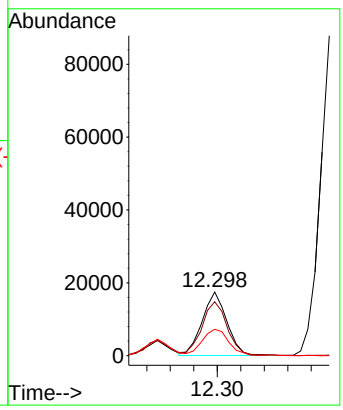
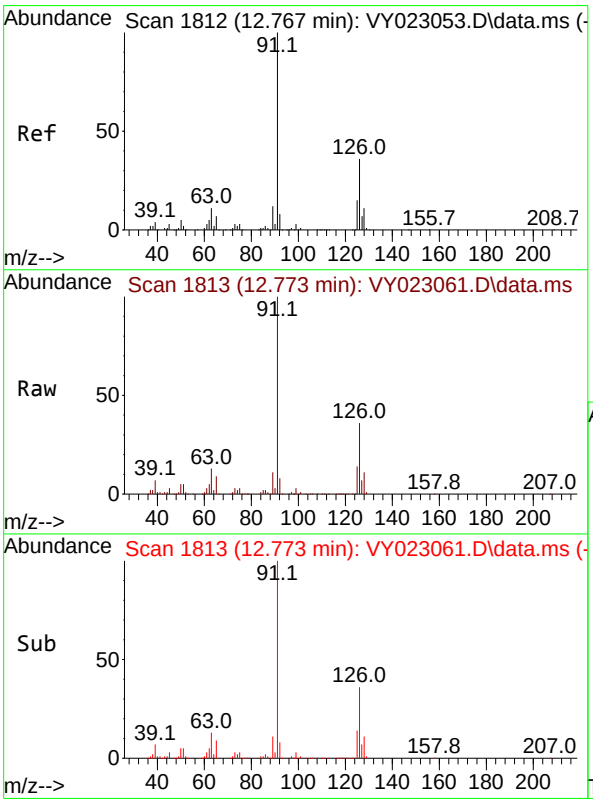
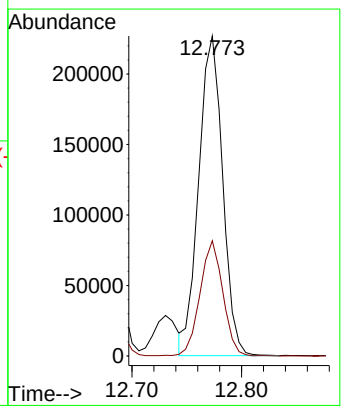


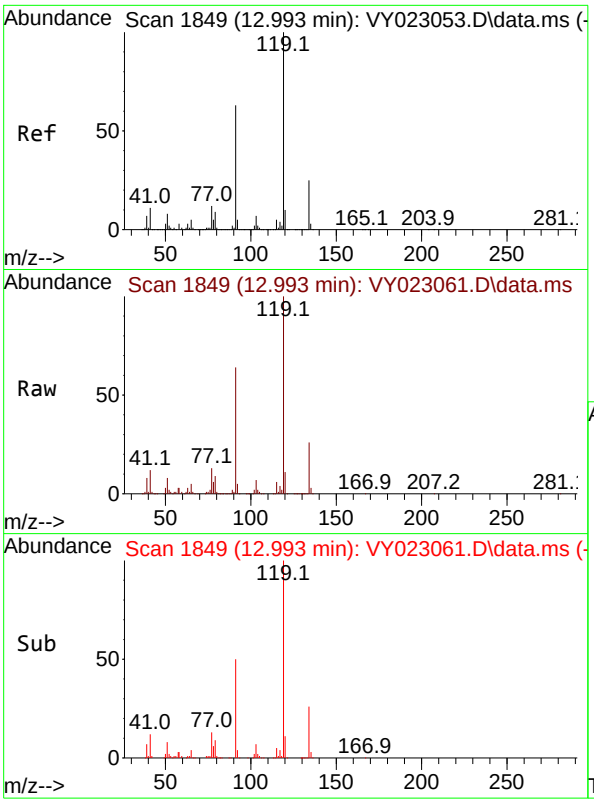


#82
4-Chlorotoluene
Concen: 21.176 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 343845

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	52.0

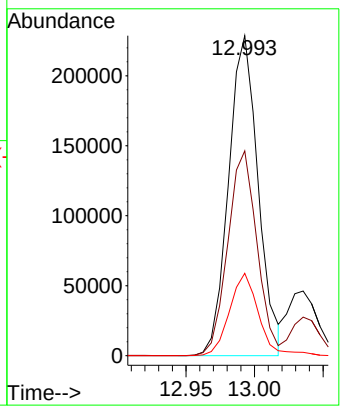




#83
tert-Butylbenzene
Concen: 20.545 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:119 Resp: 34410

Ion	Ratio	Lower	Upper
119	100		
91	63.0	31.6	94.8
134	25.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

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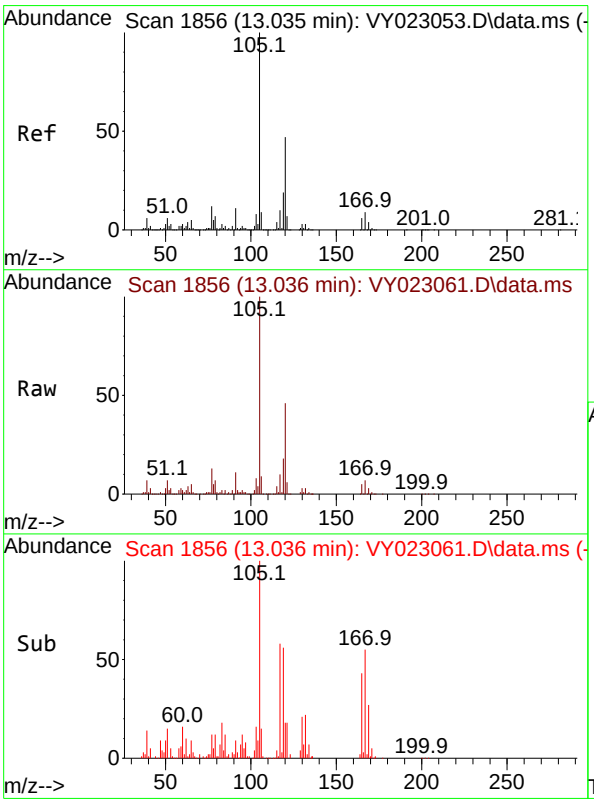
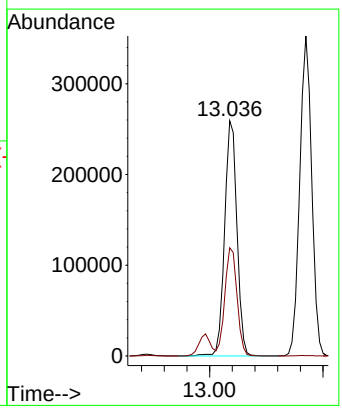
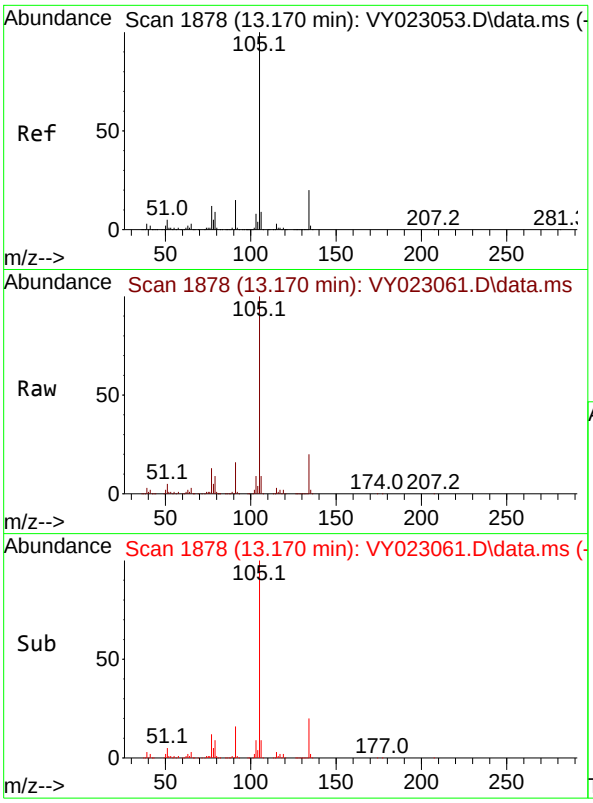


#84
1,2,4-Trimethylbenzene
Concen: 21.128 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390034

Ion	Ratio	Lower	Upper
105	100		
120	45.5	23.0	69.0

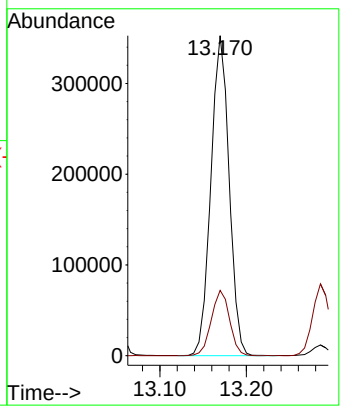




#85
sec-Butylbenzene
Concen: 20.962 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 51573

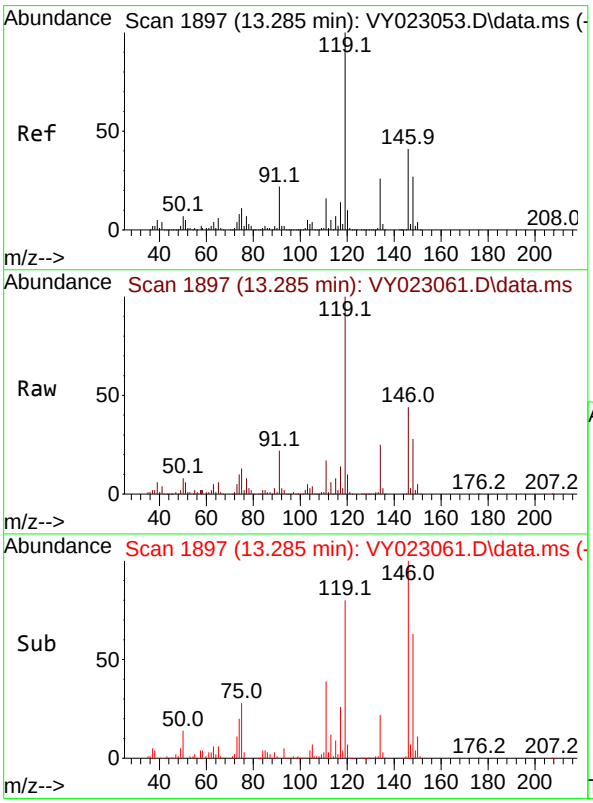
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
APPROVED

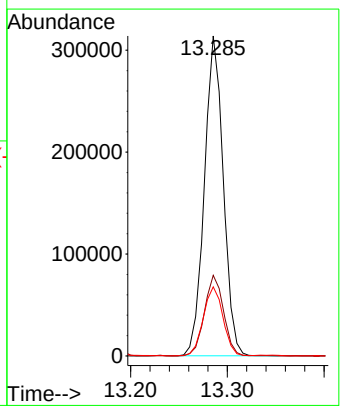
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

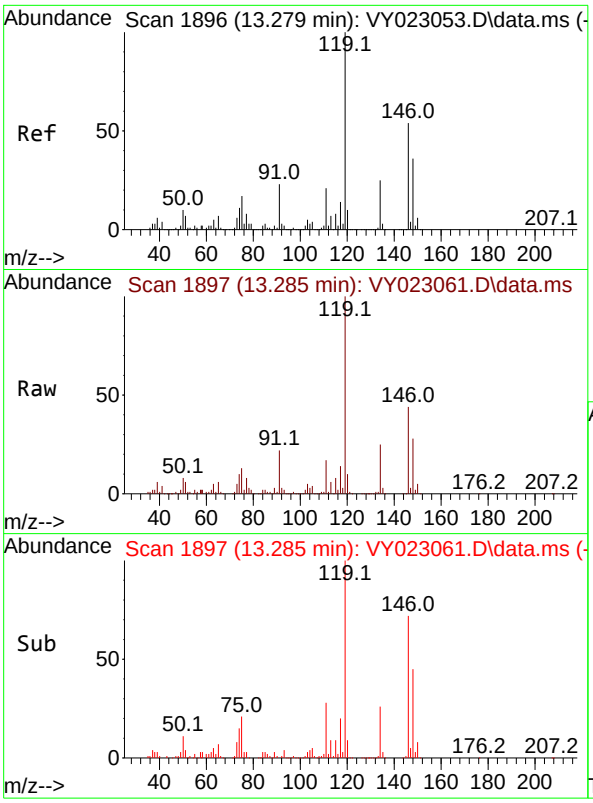


#86
p-Isopropyltoluene
Concen: 20.904 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:119 Resp: 426905

Ion	Ratio	Lower	Upper
119	100		
134	25.5	13.2	39.6
91	22.3	11.3	33.8

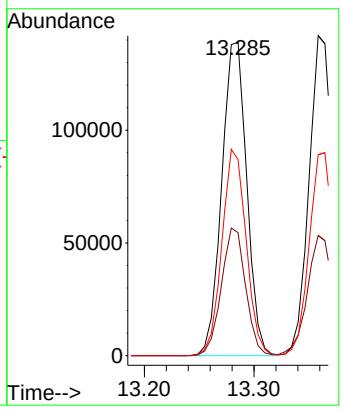




#87
1,3-Dichlorobenzene
Concen: 20.420 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 22043

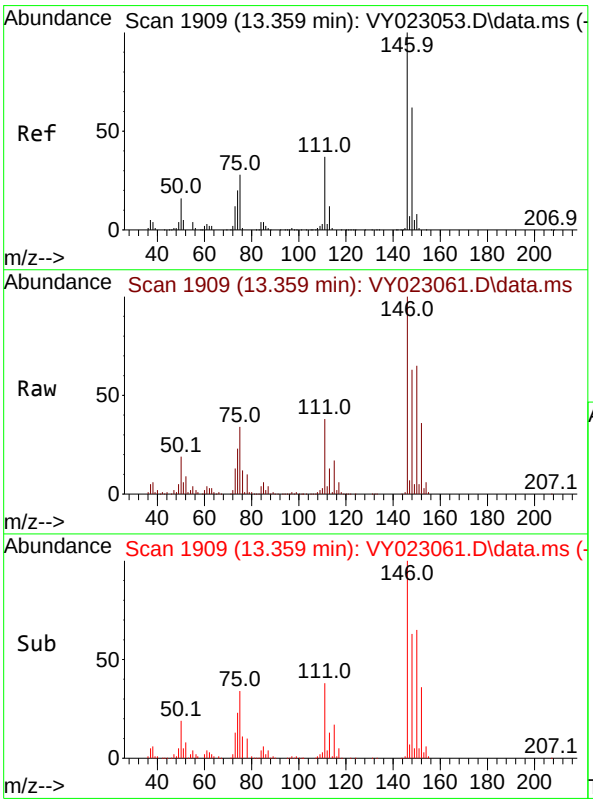
Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.6	58.7
148	63.9	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations APPROVED

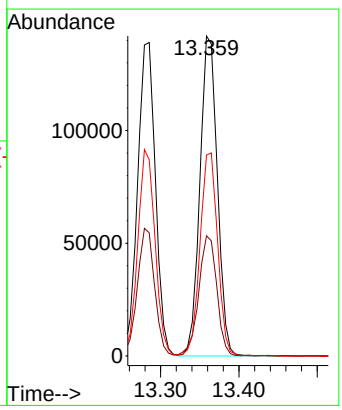
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

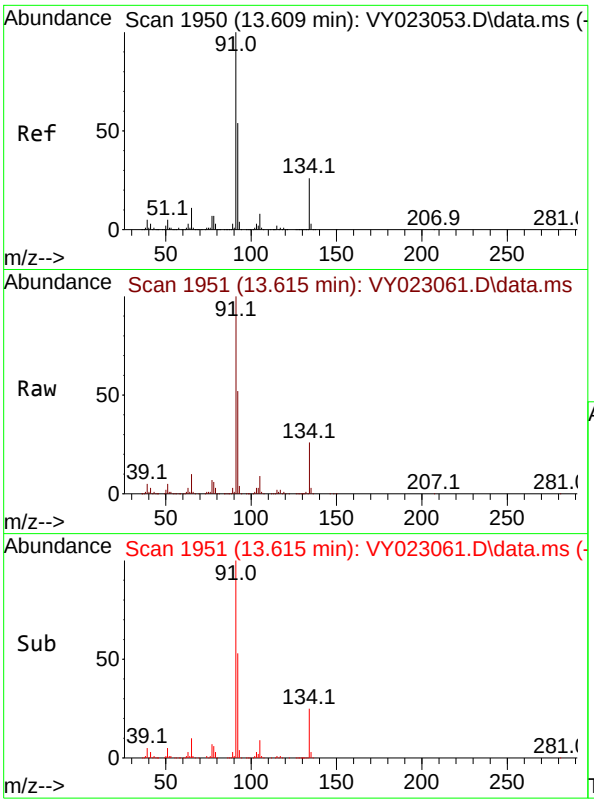


#88
1,4-Dichlorobenzene
Concen: 20.520 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 219736

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.1	57.1
148	63.8	31.6	94.7

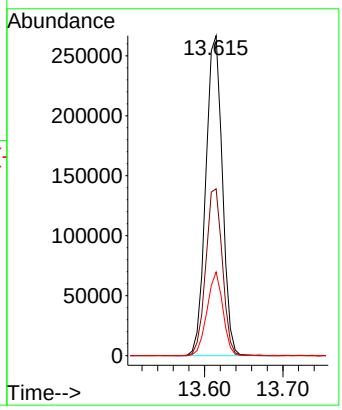




#89
n-Butylbenzene
Concen: 20.823 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 39057

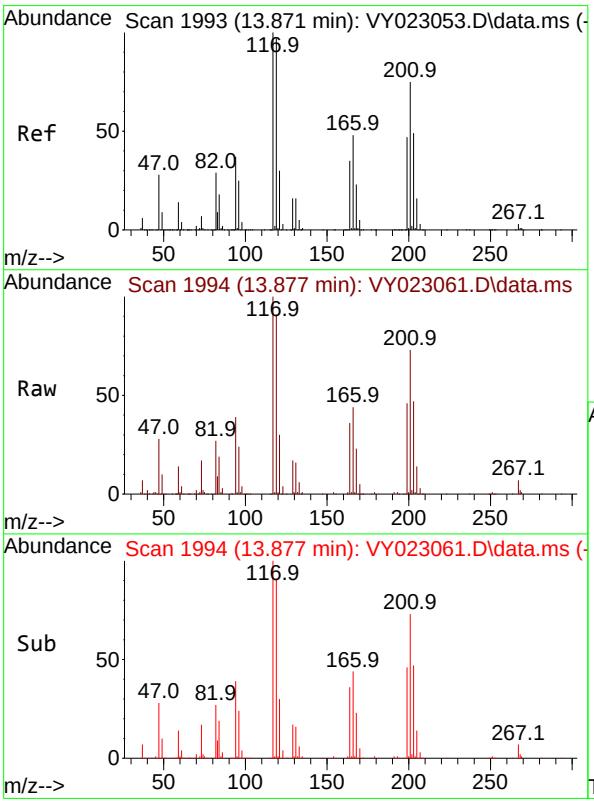
Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.9	80.7
134	25.0	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
APPROVED

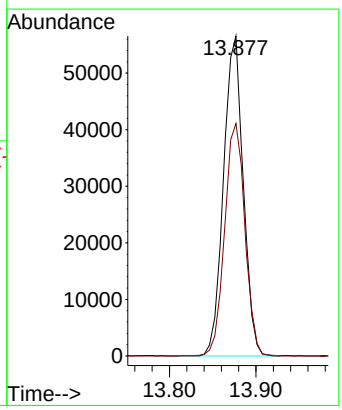
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

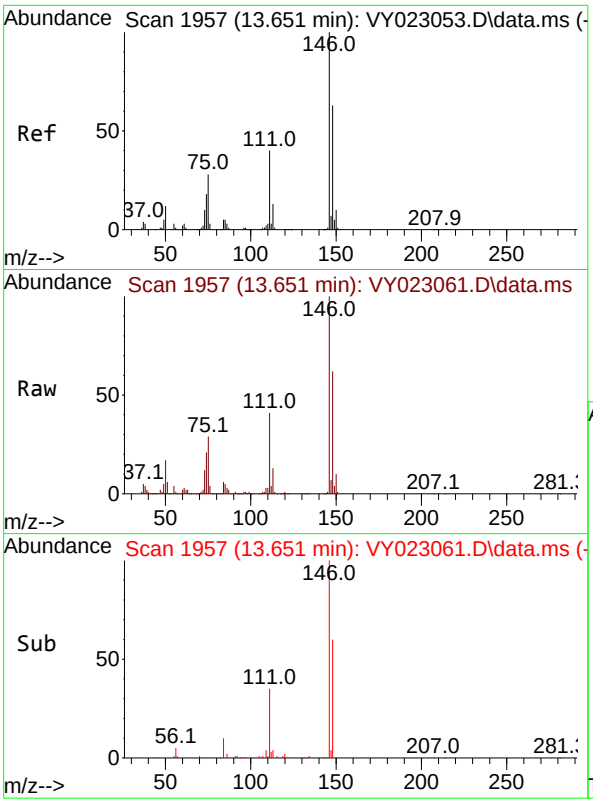


#90
Hexachloroethane
Concen: 21.398 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 89456

Ion	Ratio	Lower	Upper
117	100		
201	74.6	38.4	115.1

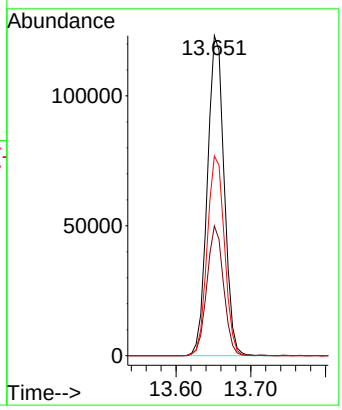




#91
1,2-Dichlorobenzene
Concen: 20.262 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 19182

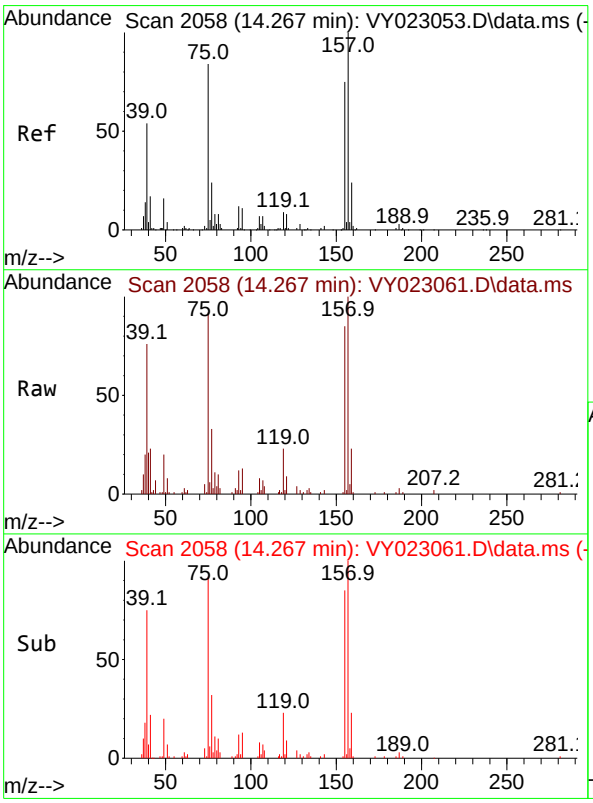
Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.8
148	64.0	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
APPROVED

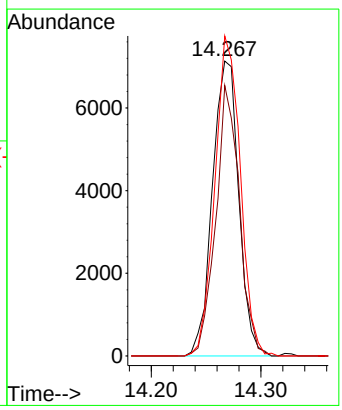
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

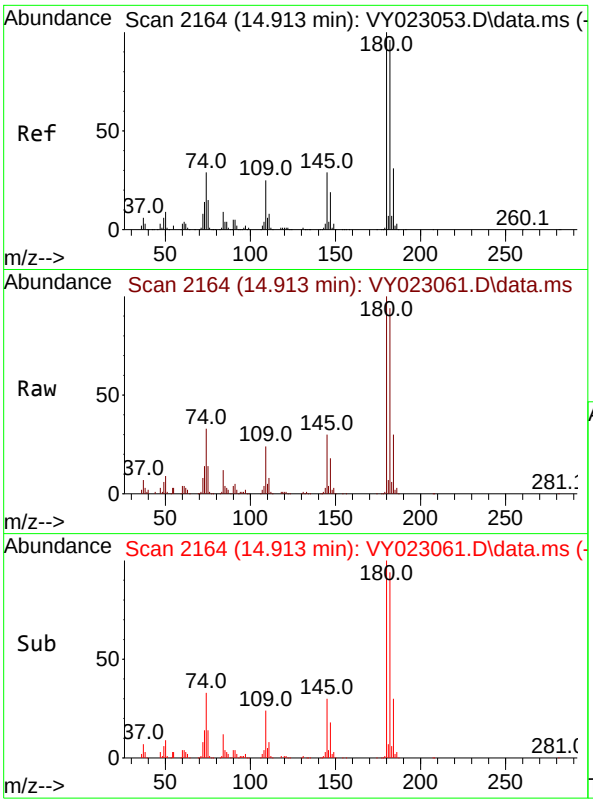


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.477 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 11881

Ion	Ratio	Lower	Upper
75	100		
155	82.7	43.9	131.6
157	105.1	57.2	171.6

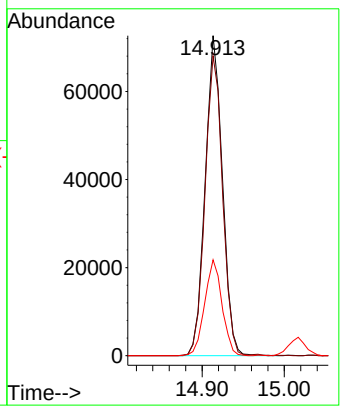




#93
1,2,4-Trichlorobenzene
Concen: 18.915 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:180 Resp: 10590

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.8	140.4
145	30.1	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
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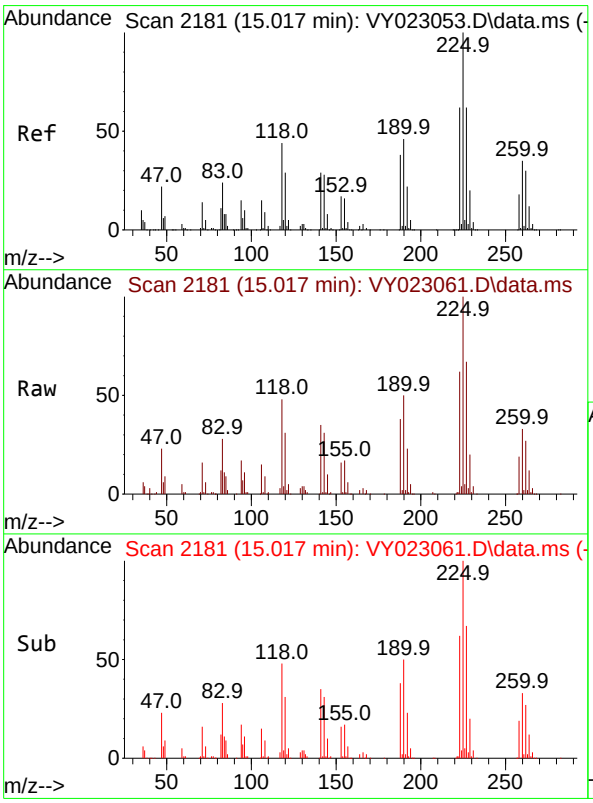
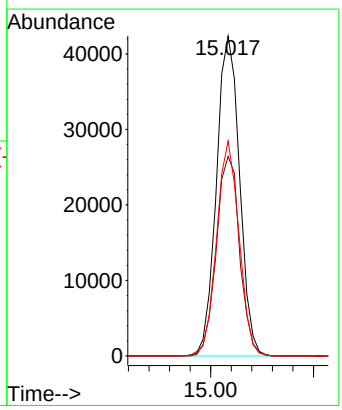
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

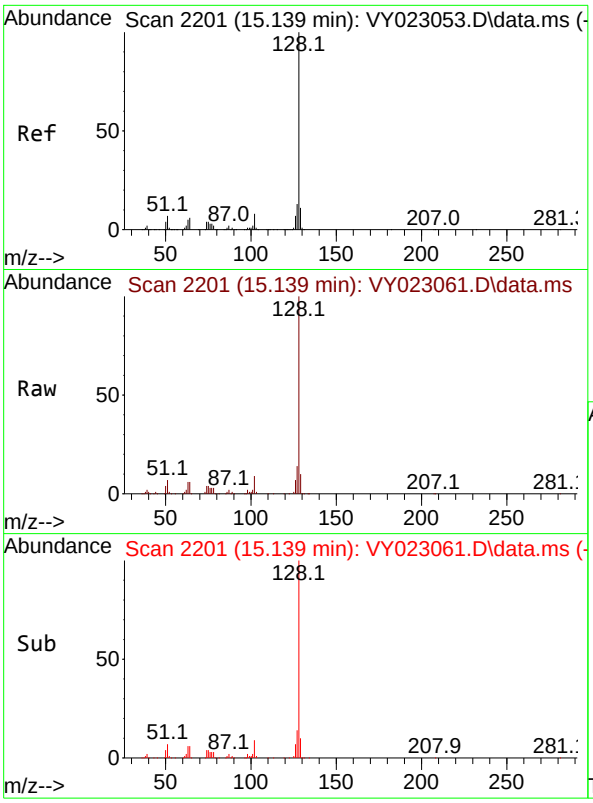


#94
Hexachlorobutadiene
Concen: 20.089 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:225 Resp: 66091

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.3	93.8
227	65.3	31.5	94.5

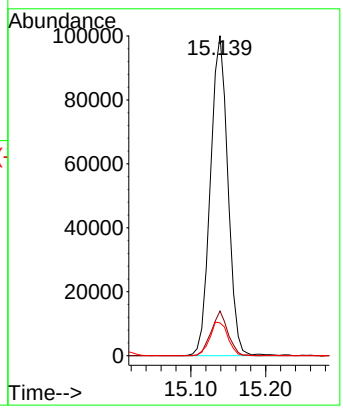




#95
Naphthalene
Concen: 16.980 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:128 Resp: 16210

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	11.0	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Manual Integrations
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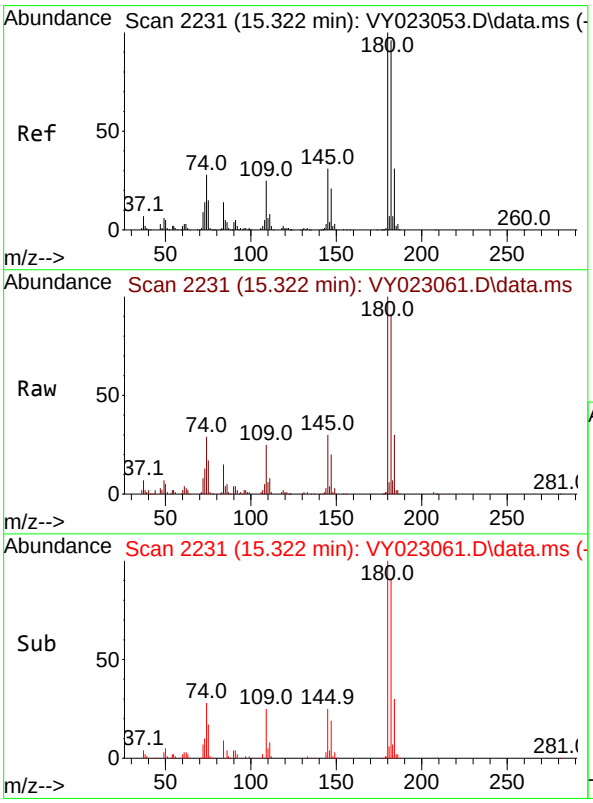
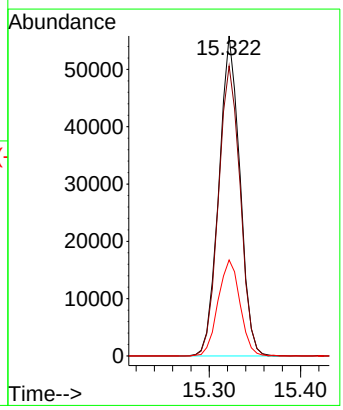
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.463 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:180 Resp: 89070

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.9	143.7
145	31.4	15.9	47.7



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:	VY0814SBS01	SDG No.:	Q2819
Lab Sample ID:	VY0814SBS01	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
VY023086.D	1	08/14/25 11:22	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	20.0		1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	23.1		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	23.1		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	23.3		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	23.5		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.8		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.9		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.0		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	94.2		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.6		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.9		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	17.8		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	20.4		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.2		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	19.4		0.79	2.50	5.00	ug/Kg
78-93-3	2-Butanone	88.8		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		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	20.3		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	20.6		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.5		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	20.3		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.0		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	20.6		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.0		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	83.5		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	19.8		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:	VY0814SBS01	SDG No.:	Q2819
Lab Sample ID:	VY0814SBS01	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
VY023086.D	1	08/14/25 11:22	VY081425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	18.5		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	18.7		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	81.9		3.70	12.5	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.8		0.87	2.50	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	18.5		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	19.7		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.4		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.9		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	19.0		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	19.2		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	18.2		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	17.2		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.6		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.2		1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	17.0		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.6		3.00	4.00	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.3		3.20	4.00	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.3		71 - 136		101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		78 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.9		85 - 116		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		79 - 119		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	456000	7.707				
540-36-3	1,4-Difluorobenzene	735000	8.609				
3114-55-4	Chlorobenzene-d5	642000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	310000	13.34				

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:	VY0814SBS01	SDG No.:	Q2819
Lab Sample ID:	VY0814SBS01	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
VY023086.D	1	08/14/25 11:22	VY081425

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\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 14:47:08 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 :
VY0814SBS01

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	455827	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	734618	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	641778	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	309825	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	218317	50.253	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.500%			
35) Dibromofluoromethane	7.634	113	220130	50.078	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.160%			
50) Toluene-d8	10.103	98	873299	50.855	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.720%			
62) 4-Bromofluorobenzene	12.401	95	263190	47.657	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	74341	19.980	ug/l	100
3) Chloromethane	2.068	50	139194	23.098	ug/l	97
4) Vinyl Chloride	2.202	62	172200	23.116	ug/l	97
5) Bromomethane	2.586	94	129347	23.250	ug/l	97
6) Chloroethane	2.726	64	116610	23.545	ug/l	96
7) Trichlorofluoromethane	3.049	101	197599	21.815	ug/l	99
8) Diethyl Ether	3.452	74	42819	17.867	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.812	101	93242	20.865	ug/l	98
10) Methyl Iodide	3.994	142	103105	21.381	ug/l	99
11) Tert butyl alcohol	4.860	59	23075	77.519	ug/l	100
12) 1,1-Dichloroethene	3.781	96	87863	20.003	ug/l	98
13) Acrolein	3.647	56	34035	78.072	ug/l	97
14) Allyl chloride	4.372	41	125844	19.470	ug/l	97
15) Acrylonitrile	5.055	53	87301	89.605	ug/l	98
16) Acetone	3.866	43	88645	94.185	ug/l	94
17) Carbon Disulfide	4.098	76	295393	20.624	ug/l	99
18) Methyl Acetate	4.385	43	49793	17.778	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	204114	17.932	ug/l	99
20) Methylene Chloride	4.610	84	107429	20.355	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	99704	20.198	ug/l	98
22) Diisopropyl ether	6.012	45	279897	19.929	ug/l	96
23) Vinyl Acetate	5.957	43	703379	90.570	ug/l	100
24) 1,1-Dichloroethane	5.909	63	177456	20.666	ug/l	100
25) 2-Butanone	6.890	43	113667	88.799	ug/l	95
26) 2,2-Dichloropropane	6.878	77	150616	20.328	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	114706	20.100	ug/l	99
28) Bromochloromethane	7.244	49	69276	20.335	ug/l	96
29) Tetrahydrofuran	7.262	42	67731	85.363	ug/l	95
30) Chloroform	7.415	83	182352	20.591	ug/l	96
31) Cyclohexane	7.695	56	156917	19.392	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	161426	20.543	ug/l	98
36) 1,1-Dichloropropene	7.829	75	131067	20.063	ug/l	99
37) Ethyl Acetate	6.982	43	45793	16.687	ug/l	98
38) Carbon Tetrachloride	7.817	117	142349	20.062	ug/l	98
39) Methylcyclohexane	9.109	83	160783	18.690	ug/l	97
40) Benzene	8.073	78	408860	20.306	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 14:47:08 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 :
VY0814SBS01

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	7.213	41	23134	14.607	ug/l	#	86
42) 1,2-Dichloroethane	8.152	62	104577	19.970	ug/l		98
43) Isopropyl Acetate	8.195	43	95745	17.262	ug/l		98
44) Trichloroethene	8.859	130	106605	20.488	ug/l		98
45) 1,2-Dichloropropane	9.140	63	95447	20.603	ug/l		99
46) Dibromomethane	9.225	93	51967	19.543	ug/l		97
47) Bromodichloromethane	9.420	83	137131	20.042	ug/l		98
48) Methyl methacrylate	9.219	41	45987	17.327	ug/l		98
49) 1,4-Dioxane	9.225	88	10785	345.913	ug/l	#	94
51) 4-Methyl-2-Pentanone	9.993	43	238881	83.495	ug/l		97
52) Toluene	10.164	92	252944	19.780	ug/l		97
53) t-1,3-Dichloropropene	10.390	75	114364	18.458	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	141980	19.379	ug/l		99
55) 1,1,2-Trichloroethane	10.566	97	66658	18.734	ug/l		97
56) Ethyl methacrylate	10.438	69	75122	16.500	ug/l		98
57) 1,3-Dichloropropane	10.713	76	114859	19.034	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	187201	87.167	ug/l		100
59) 2-Hexanone	10.755	43	159619	81.934	ug/l		98
60) Dibromochloromethane	10.908	129	88354	18.819	ug/l		100
61) 1,2-Dibromoethane	11.011	107	61746	18.463	ug/l		100
64) Tetrachloroethene	10.646	164	123429	21.538	ug/l		98
65) Chlorobenzene	11.438	112	272937	19.716	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.511	131	93115	19.819	ug/l		98
67) Ethyl Benzene	11.517	91	461952	19.391	ug/l		100
68) m/p-Xylenes	11.627	106	362129	38.921	ug/l		98
69) o-Xylene	11.950	106	165485	18.990	ug/l		97
70) Styrene	11.963	104	273749	19.209	ug/l		99
71) Bromoform	12.127	173	49863	18.159	ug/l	#	100
73) Isopropylbenzene	12.249	105	423027	19.345	ug/l		99
74) N-amyl acetate	12.066	43	78613	16.952	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	64150	17.181	ug/l		94
76) 1,2,3-Trichloropropane	12.554	75	54979m	18.387	ug/l		
77) Bromobenzene	12.529	156	100851	19.332	ug/l		98
78) n-propylbenzene	12.590	91	520711	20.001	ug/l		100
79) 2-Chlorotoluene	12.676	91	297769	19.962	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	348710	19.731	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	21491	17.398	ug/l		94
82) 4-Chlorotoluene	12.773	91	312655	20.205	ug/l		98
83) tert-Butylbenzene	12.993	119	303222	18.997	ug/l		100
84) 1,2,4-Trimethylbenzene	13.036	105	351003	19.952	ug/l		99
85) sec-Butylbenzene	13.170	105	458024	19.534	ug/l		99
86) p-Isopropyltoluene	13.285	119	374466	19.240	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	200869	19.525	ug/l		99
88) 1,4-Dichlorobenzene	13.359	146	200293	19.626	ug/l		98
89) n-Butylbenzene	13.615	91	344791	19.289	ug/l		98
90) Hexachloroethane	13.877	117	80689	20.252	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	172852	19.158	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	9872	16.982	ug/l		95
93) 1,2,4-Trichlorobenzene	14.913	180	93915	17.602	ug/l		99
94) Hexachlorobutadiene	15.017	225	58299	18.595	ug/l		98
95) Naphthalene	15.139	128	142271	15.638	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	79576	17.308	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 14:47:08 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 :
VY0814SBS01

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\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
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Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
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Quant Time: Aug 14 14:47:08 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 :
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ClientSampleId :
VY0814SBS01

Manual Integrations APPROVED

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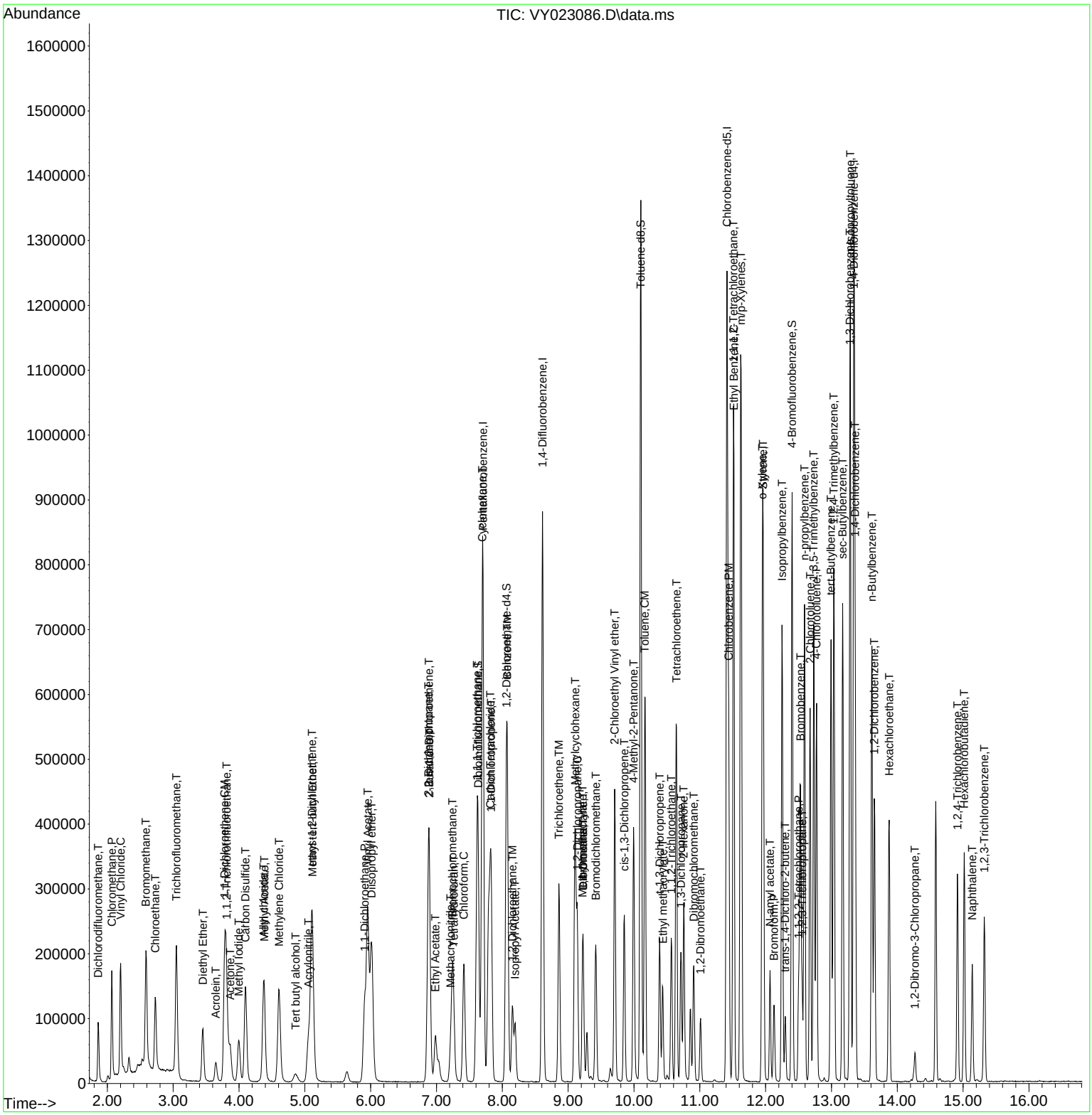
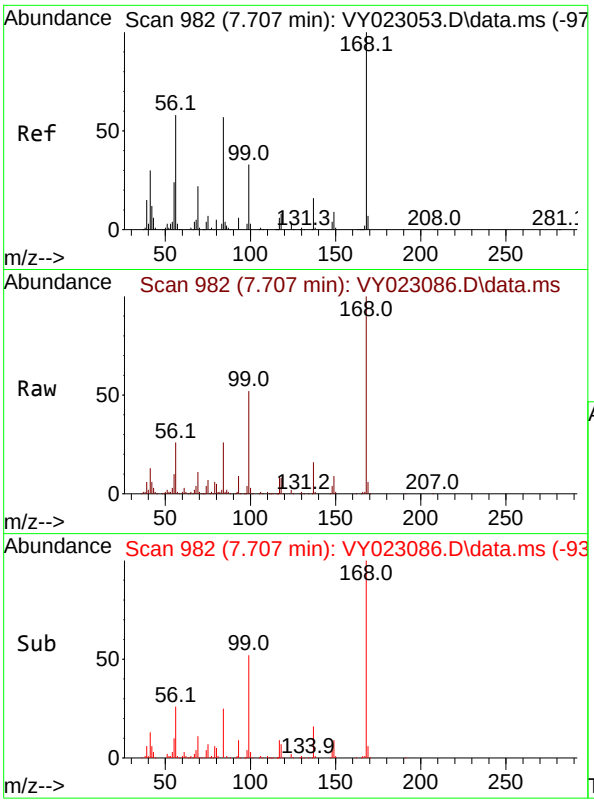
Supervised By :Mahesh Dadoda 08/19/2025

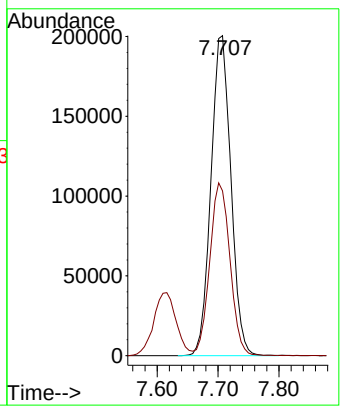




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:168 Resp: 45582

Ion	Ratio	Lower	Upper
168	100		
99	51.4	42.8	64.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Manual Integrations
APPROVED

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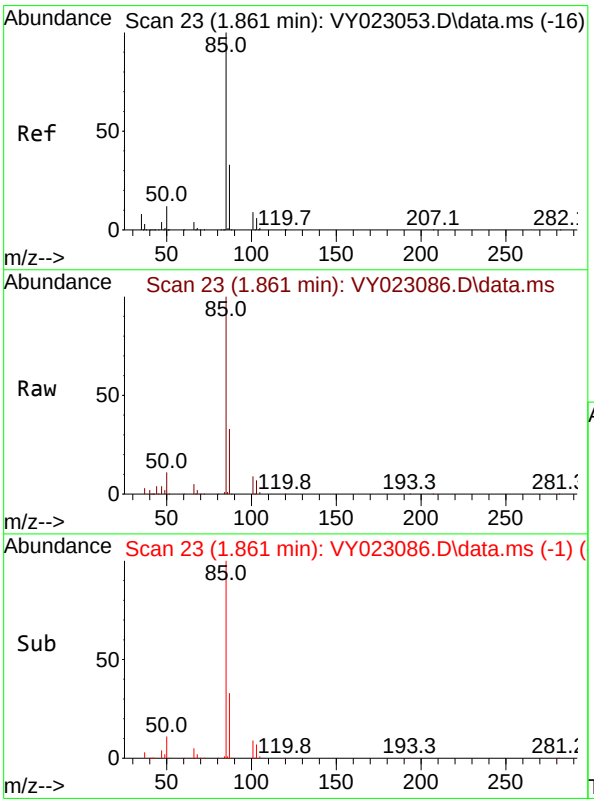
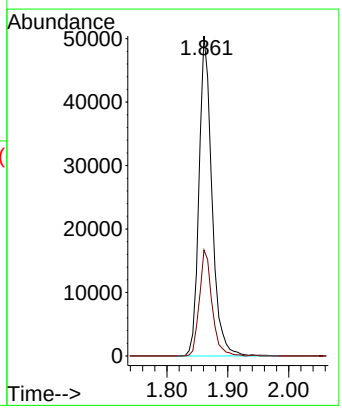
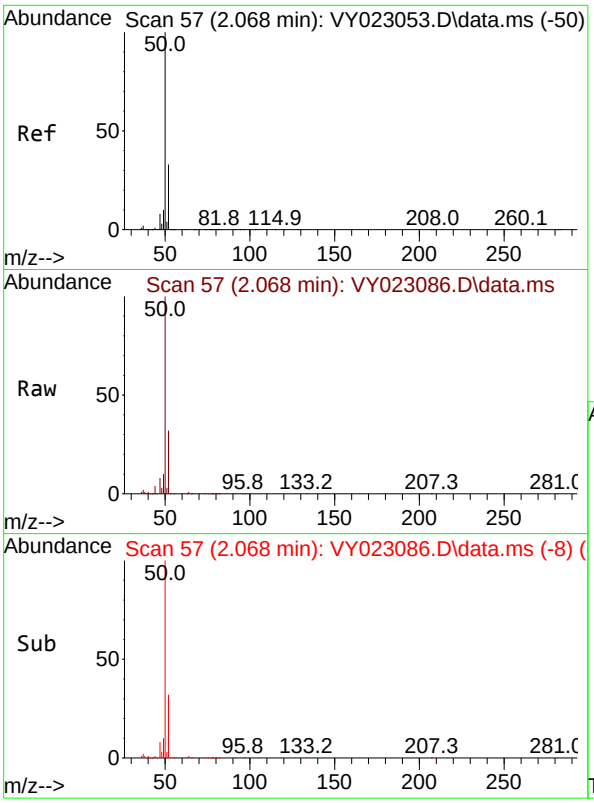


#2
Dichlorodifluoromethane
Concen: 19.980 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 85 Resp: 74341

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.6	49.8

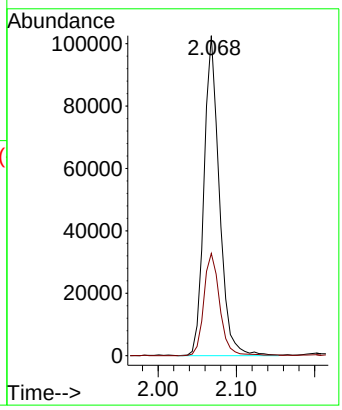




#3
Chloromethane
Concen: 23.098 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 50 Resp: 13919

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Manual Integrations
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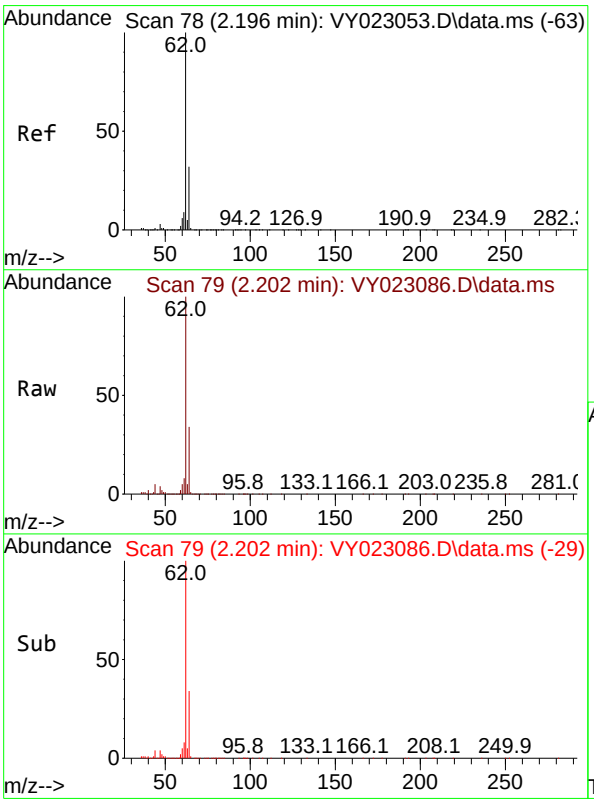
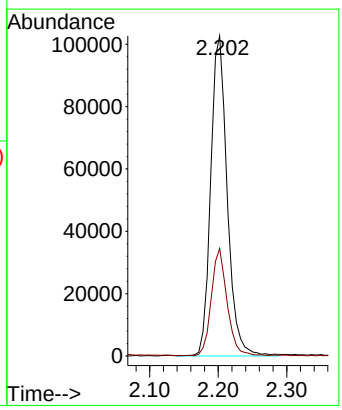
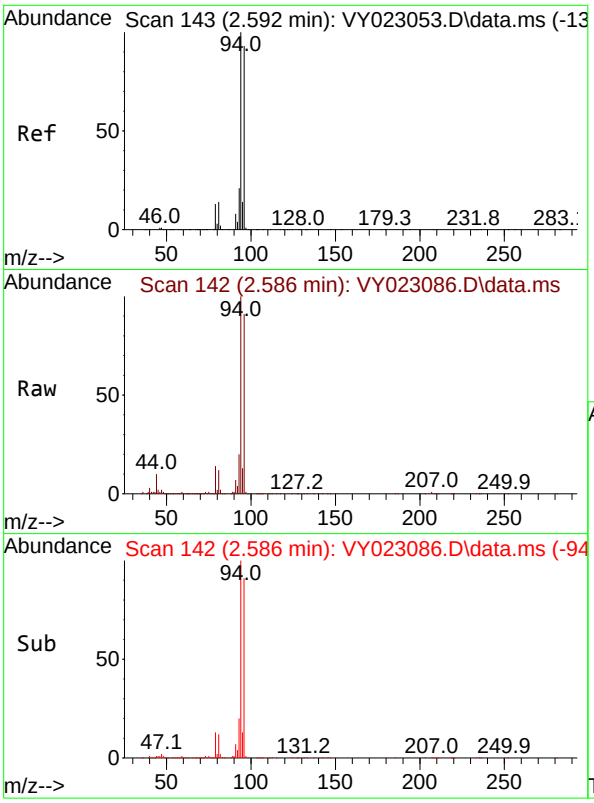


#4
Vinyl Chloride
Concen: 23.116 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 172200

Ion	Ratio	Lower	Upper
62	100		
64	33.4	25.4	38.0

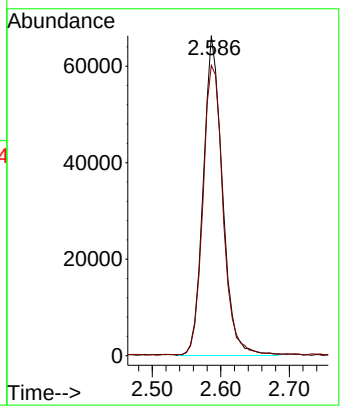




#5
Bromomethane
Concen: 23.250 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 94 Resp: 12934

Ion	Ratio	Lower	Upper
94	100		
96	90.4	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Manual Integrations
APPROVED

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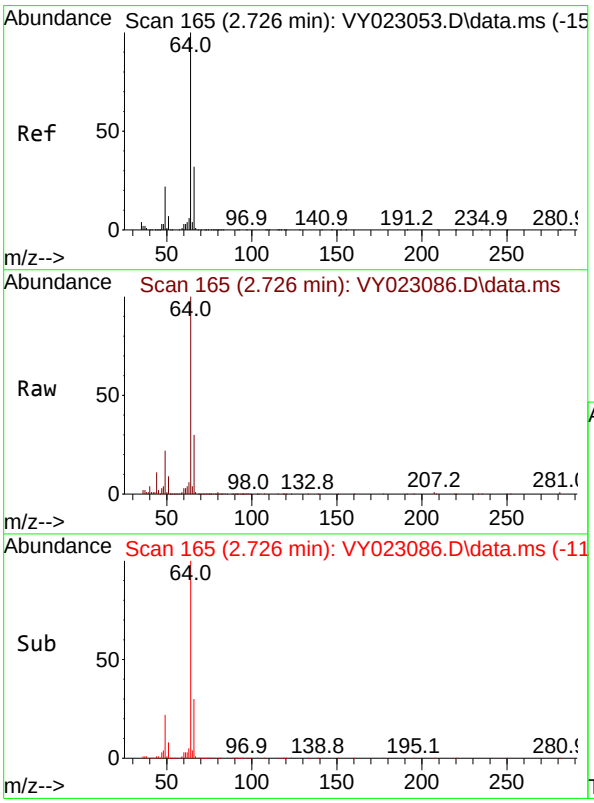
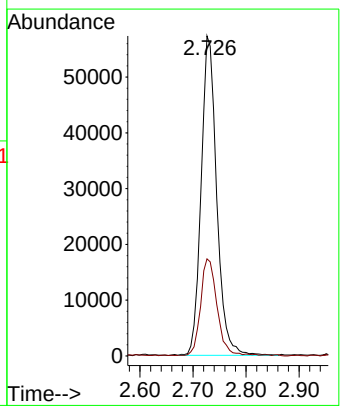
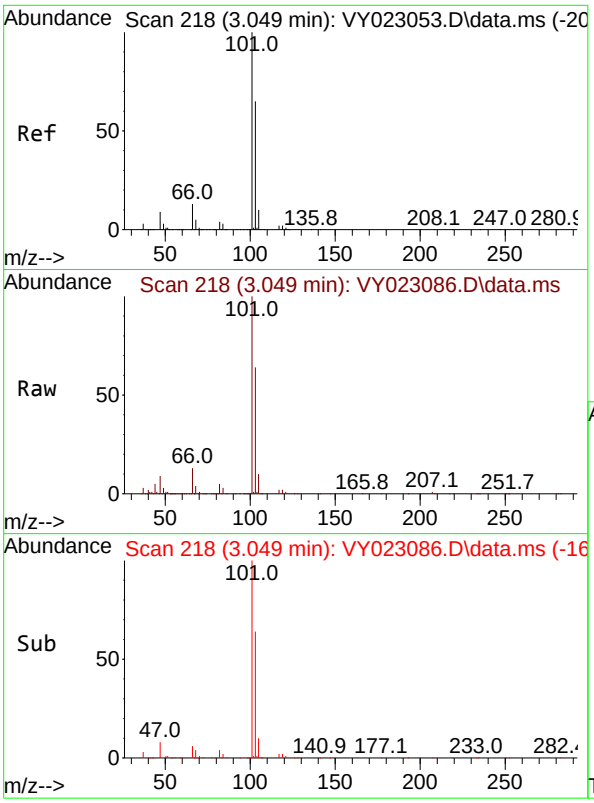


#6
Chloroethane
Concen: 23.545 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 64 Resp: 116610

Ion	Ratio	Lower	Upper
64	100		
66	30.2	25.8	38.6

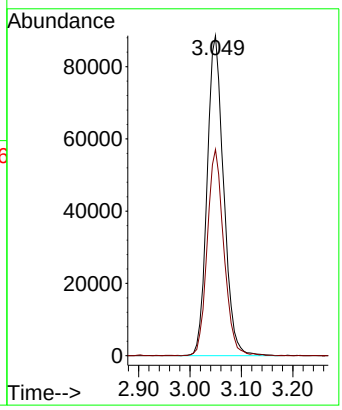




#7
Trichlorofluoromethane
Concen: 21.815 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:101 Resp: 19759

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/19/2025
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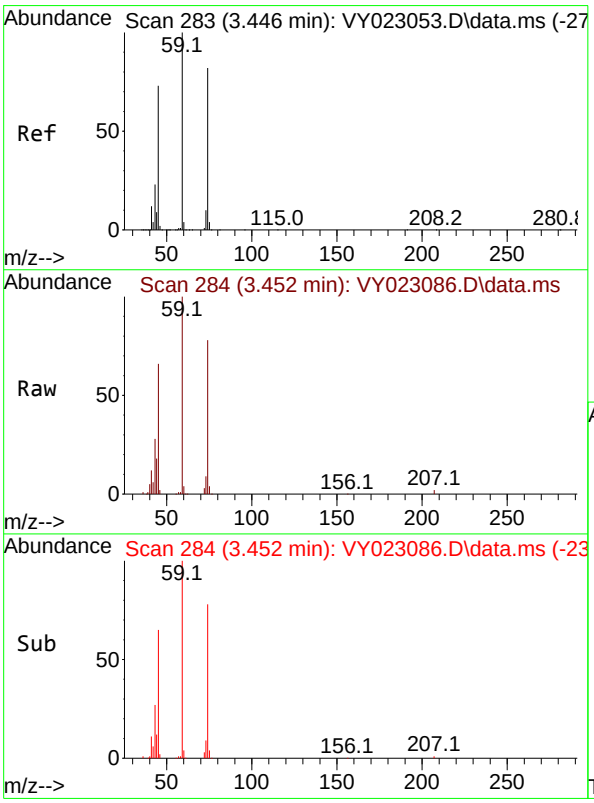
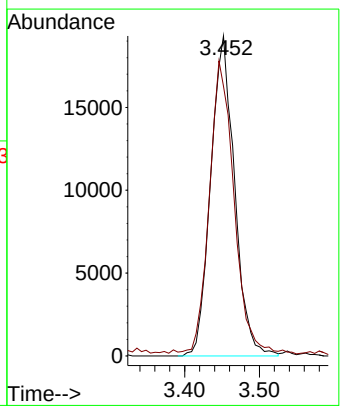
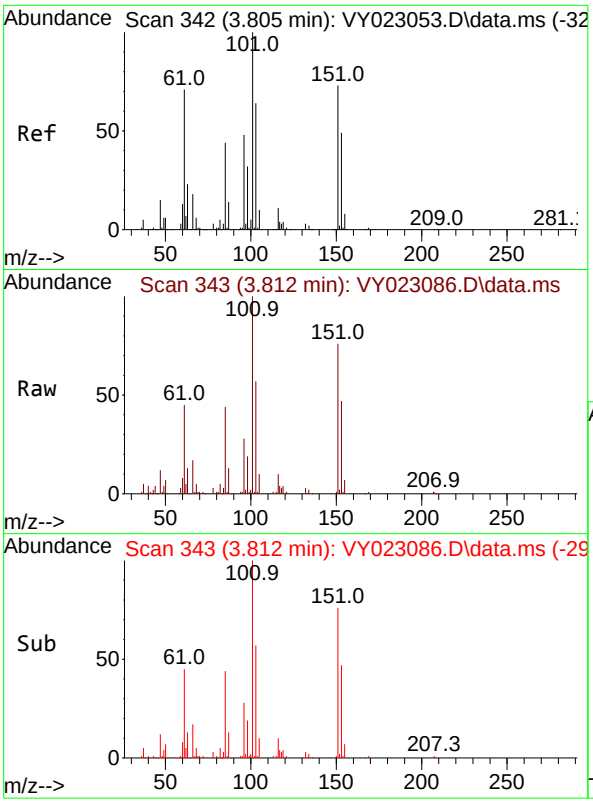


#8
Diethyl Ether
Concen: 17.867 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 74 Resp: 42819

Ion	Ratio	Lower	Upper
74	100		
45	94.9	44.4	133.2

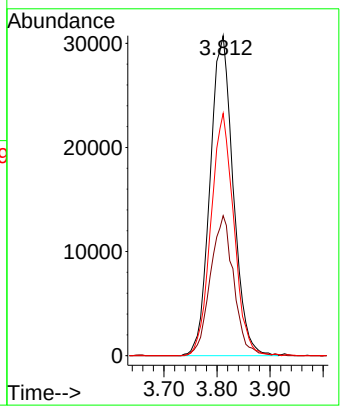




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.865 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:101 Resp: 9324

Ion	Ratio	Lower	Upper
101	100		
85	44.2	36.3	54.5
151	75.1	61.5	92.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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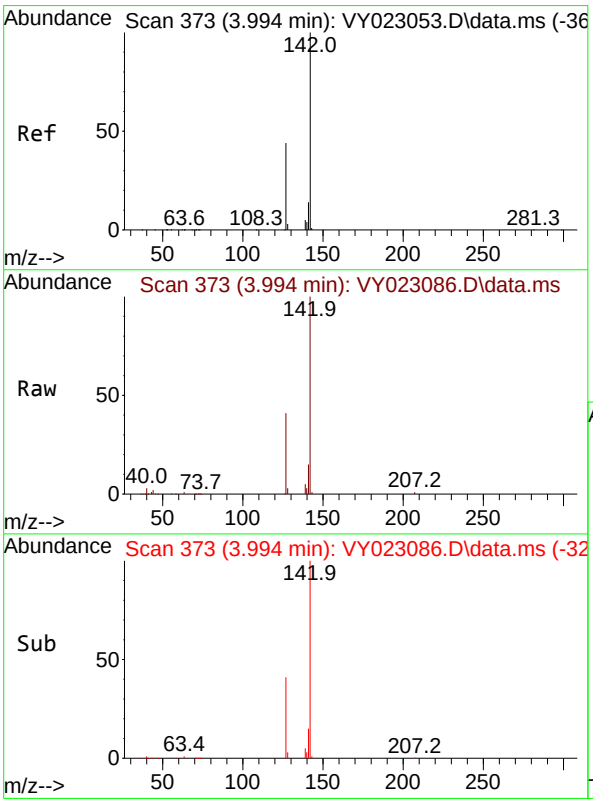
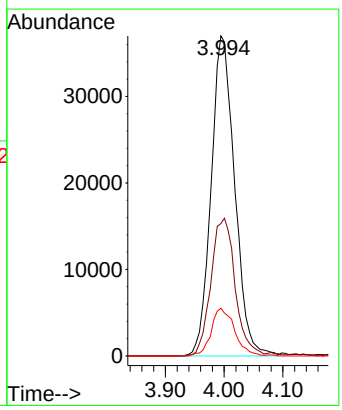
Supervised By :Mahesh Dadoda 08/19/2025

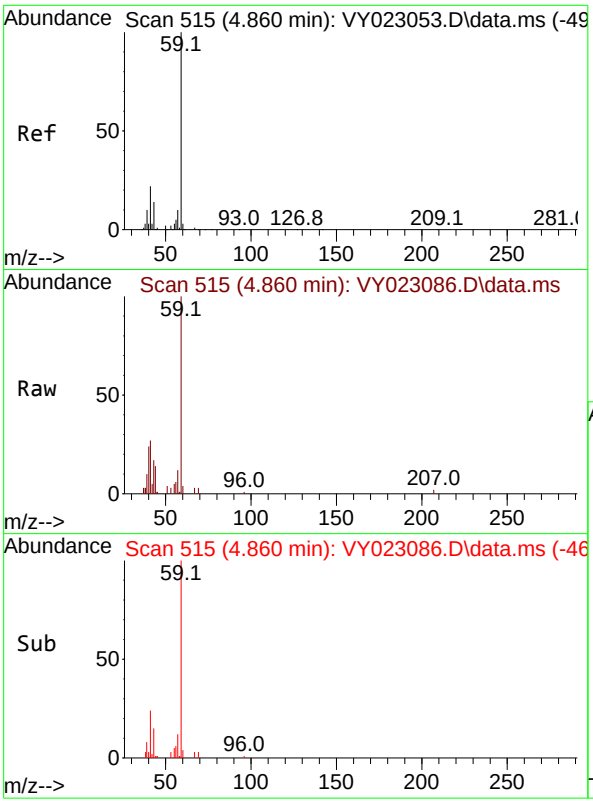


#10
Methyl Iodide
Concen: 21.381 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:142 Resp: 103105

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.9	52.3
141	14.8	11.3	16.9

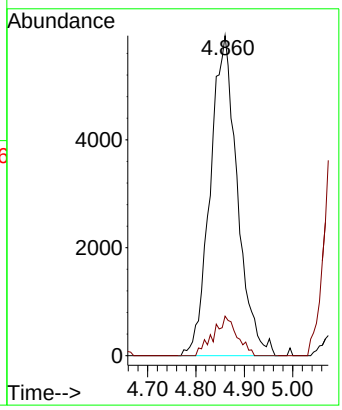




#11
Tert butyl alcohol
Concen: 77.519 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 59 Resp: 2307

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0



Instrument :
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ClientSampleId :
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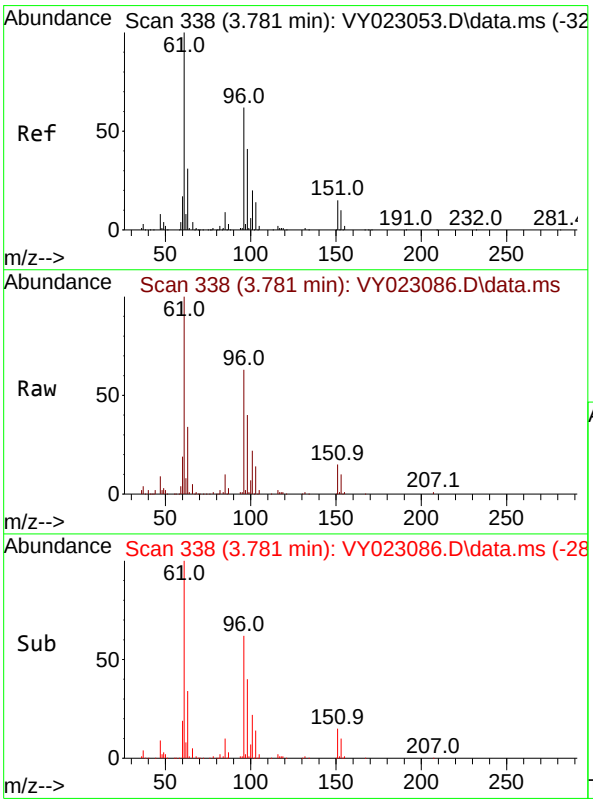
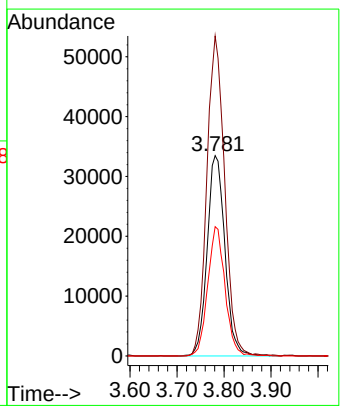
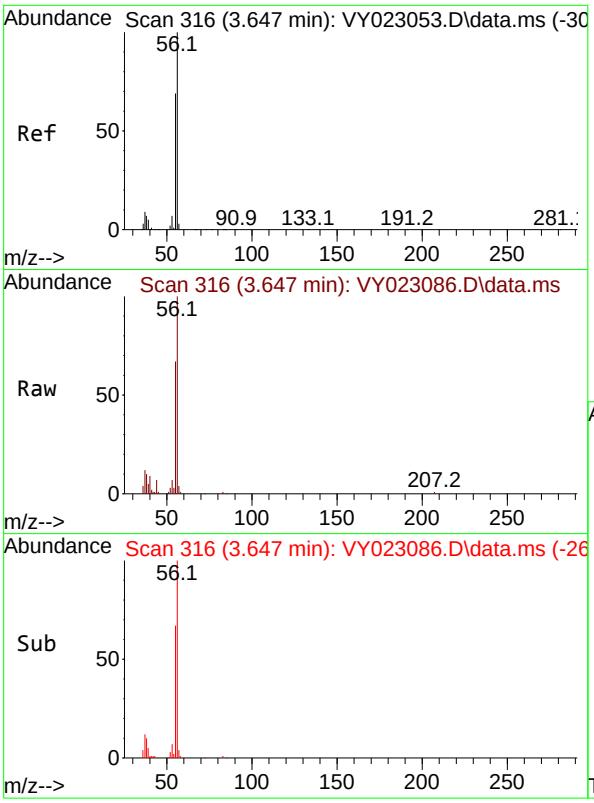


#12
1,1-Dichloroethene
Concen: 20.003 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 87863

Ion	Ratio	Lower	Upper
96	100		
61	159.8	129.4	194.2
98	64.5	52.8	79.2

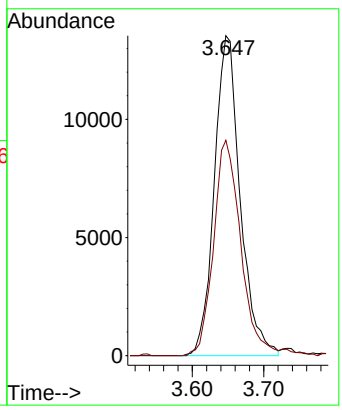




#13
Acrolein
Concen: 78.072 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 56 Resp: 3403

Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.2	82.8



Instrument :
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ClientSampleId :
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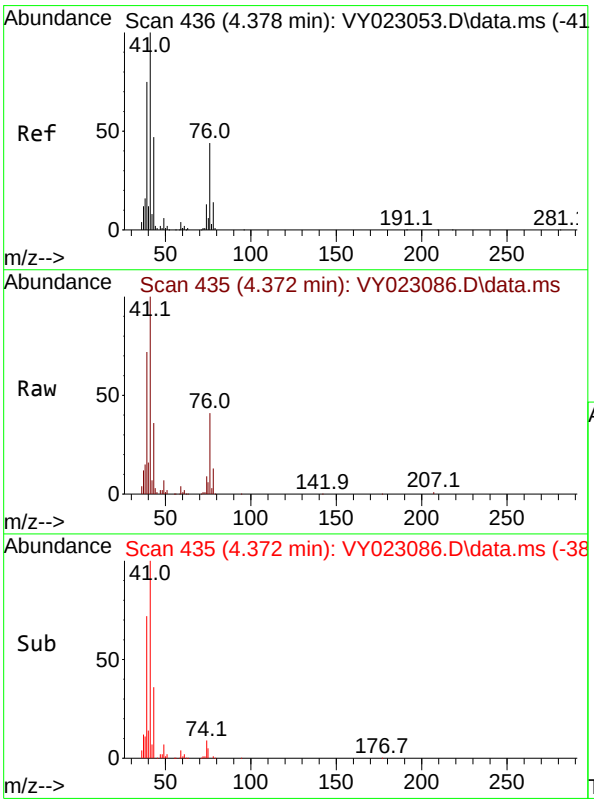
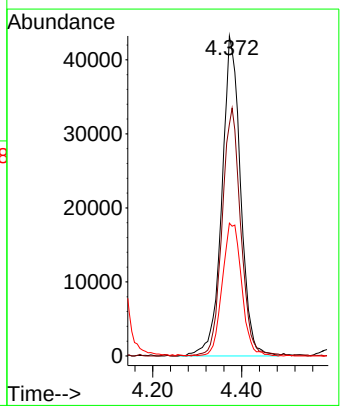
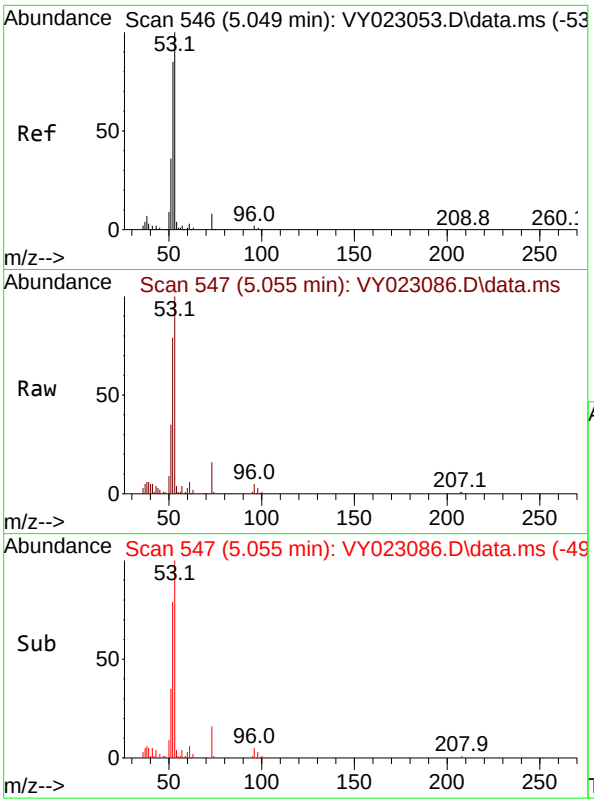


#14
Allyl chloride
Concen: 19.470 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 125844

Ion	Ratio	Lower	Upper
41	100		
39	77.3	59.8	89.6
76	43.1	33.7	50.5

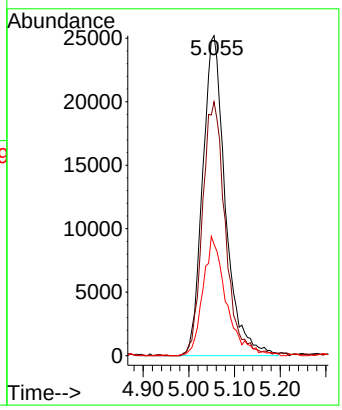




#15
Acrylonitrile
Concen: 89.605 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 53 Resp: 8730

Ion	Ratio	Lower	Upper
53	100		
52	79.5	65.3	97.9
51	38.2	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
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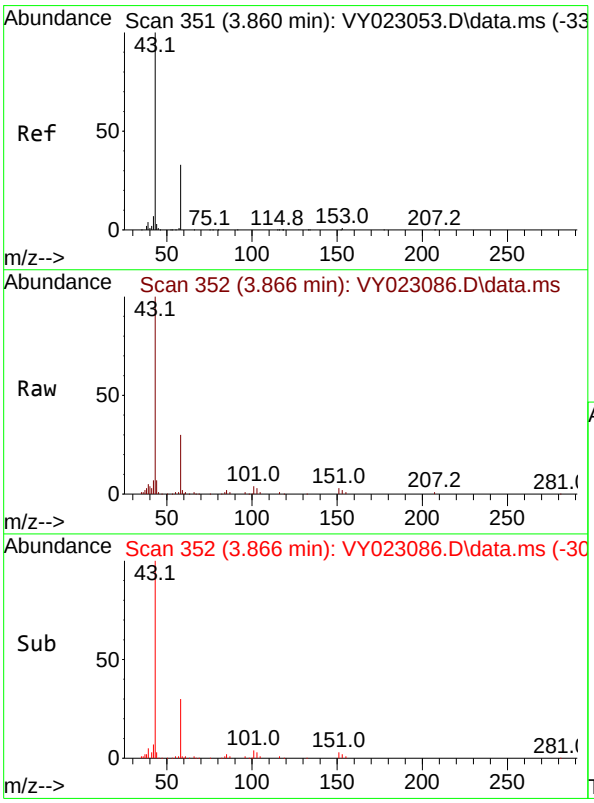
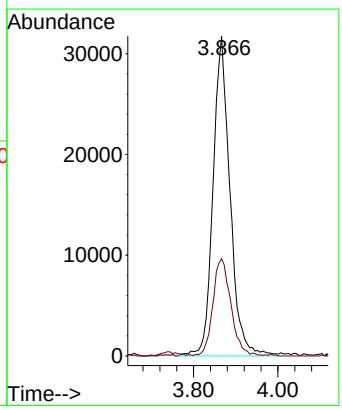
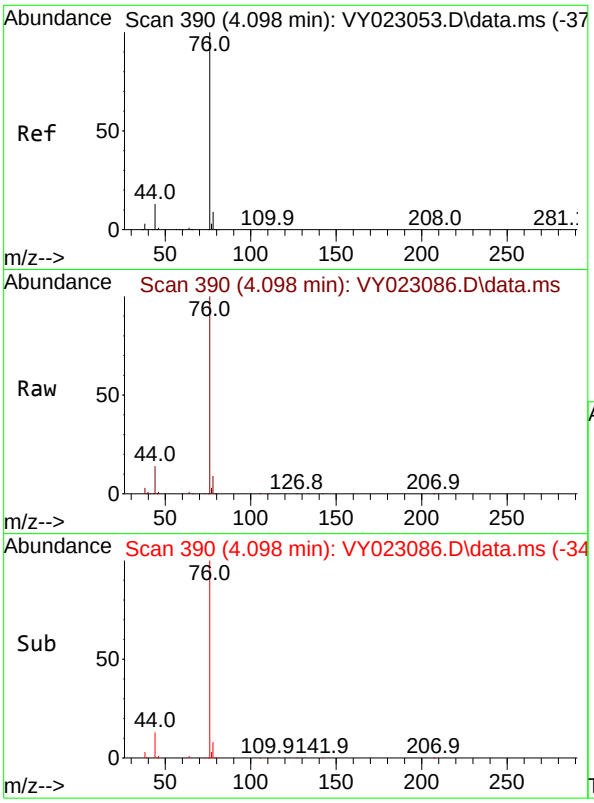


#16
Acetone
Concen: 94.185 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 88645

Ion	Ratio	Lower	Upper
43	100		
58	30.4	27.1	40.7





#17
Carbon Disulfide
Concen: 20.624 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 76 Resp: 29539

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.2

Instrument :
MSVOA_Y
ClientSampleId :
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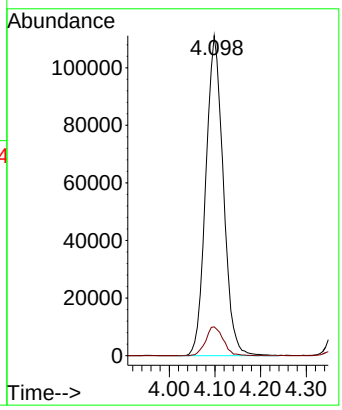
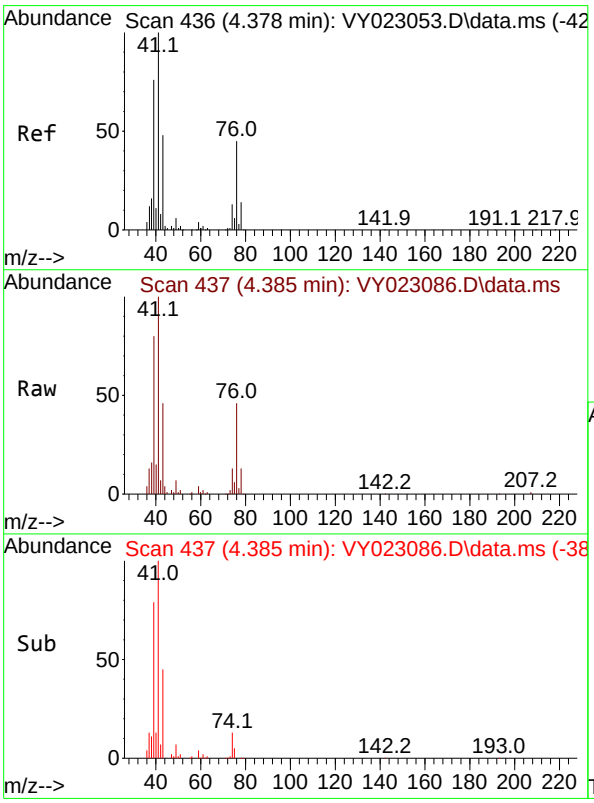
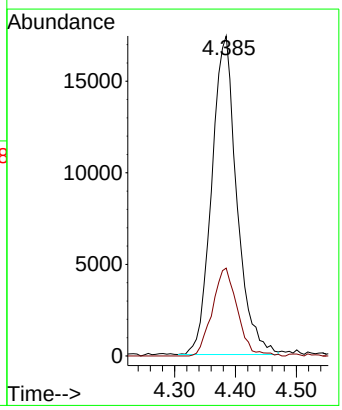


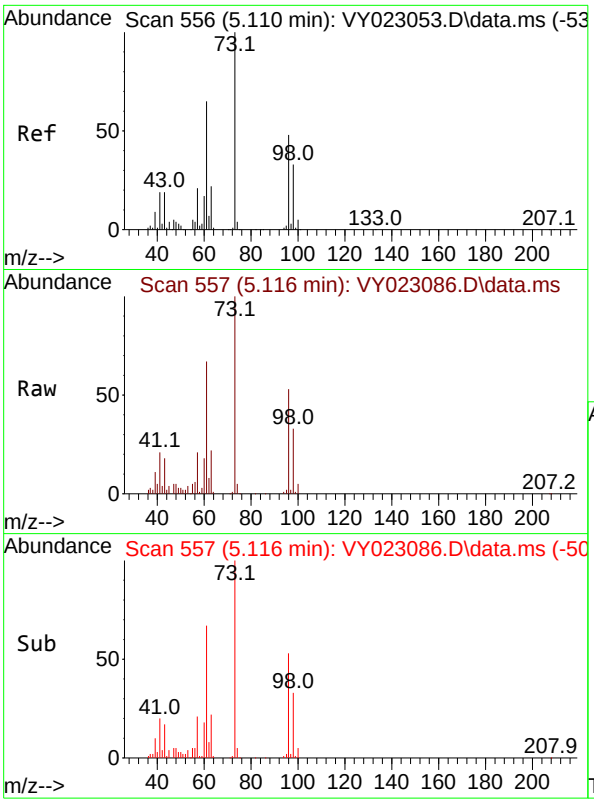


#18
Methyl Acetate
Concen: 17.778 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 49793

Ion	Ratio	Lower	Upper
43	100		
74	27.4	21.2	31.8

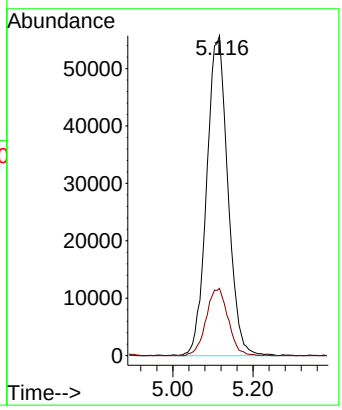




#19
Methyl tert-butyl Ether
Concen: 17.932 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 73 Resp: 20411

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
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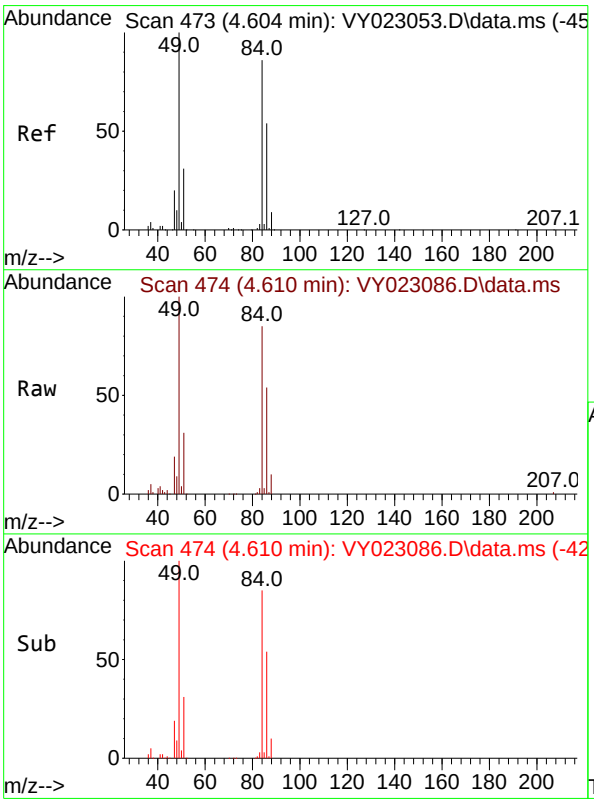
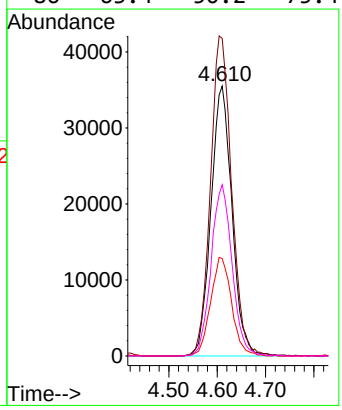
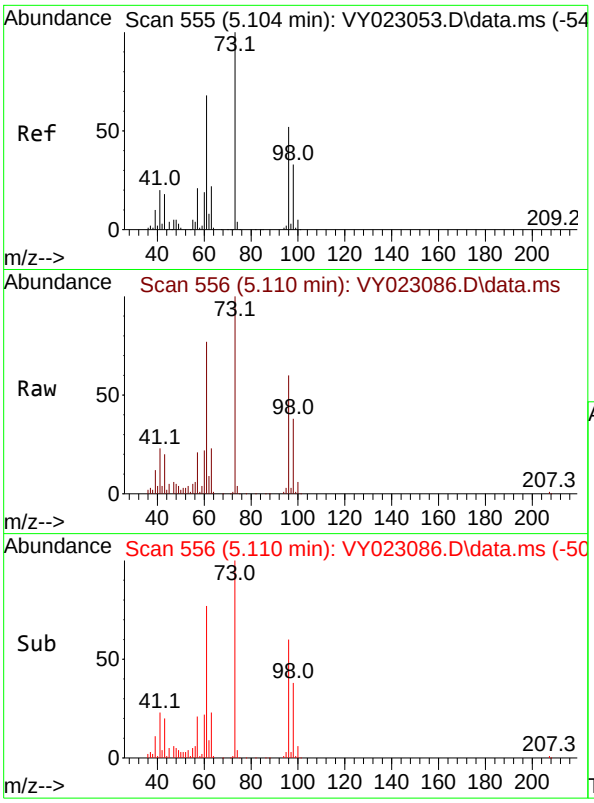


#20
Methylene Chloride
Concen: 20.355 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 84 Resp: 107429

Ion	Ratio	Lower	Upper
84	100		
49	117.7	93.0	139.6
51	36.1	29.0	43.4
86	63.4	50.2	75.4

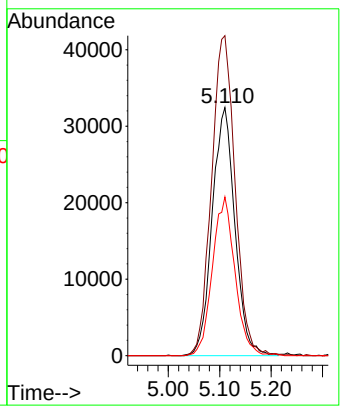




#21
trans-1,2-Dichloroethene
Concen: 20.198 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 9970

Ion	Ratio	Lower	Upper
96	100		
61	128.9	104.8	157.2
98	64.0	50.1	75.1



Instrument :
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ClientSampleId :
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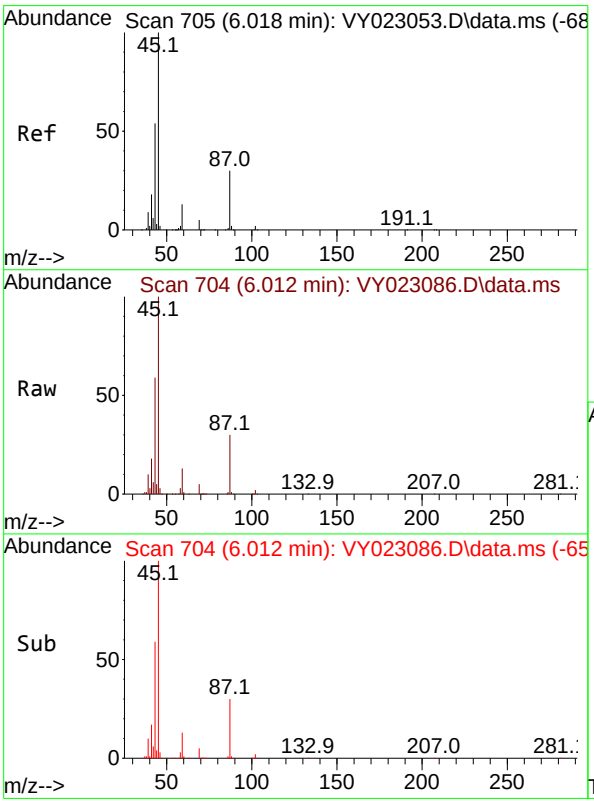
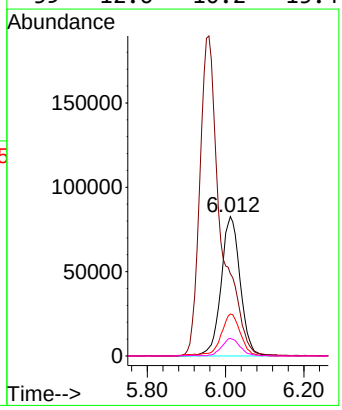
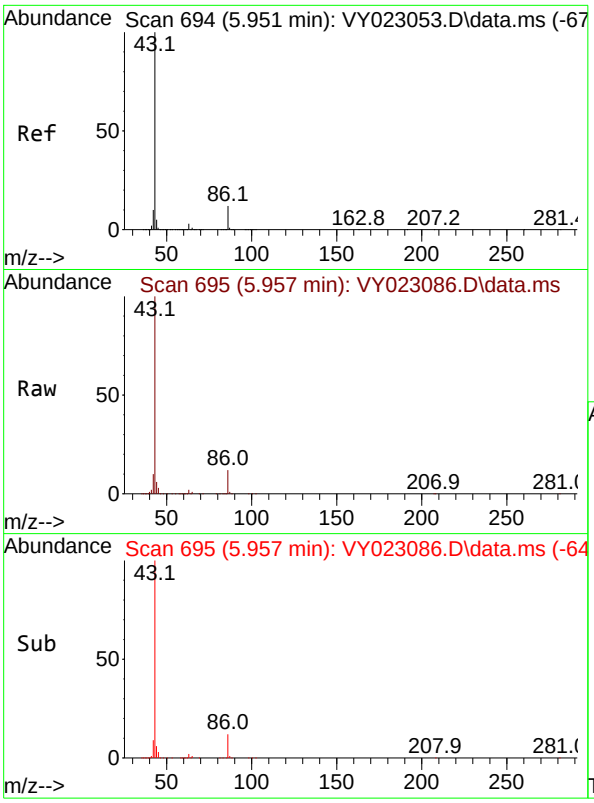


#22
Diisopropyl ether
Concen: 19.929 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 45 Resp: 279897

Ion	Ratio	Lower	Upper
45	100		
43	59.0	43.4	65.0
87	30.1	24.4	36.6
59	12.6	10.2	15.4

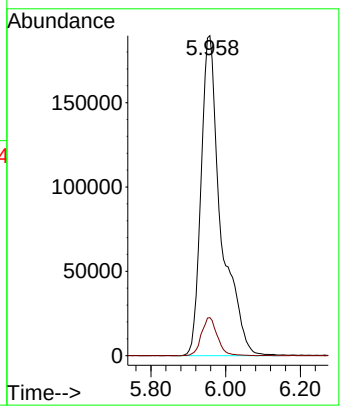




#23
Vinyl Acetate
Concen: 90.570 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 70337

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4



Instrument :
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ClientSampleId :
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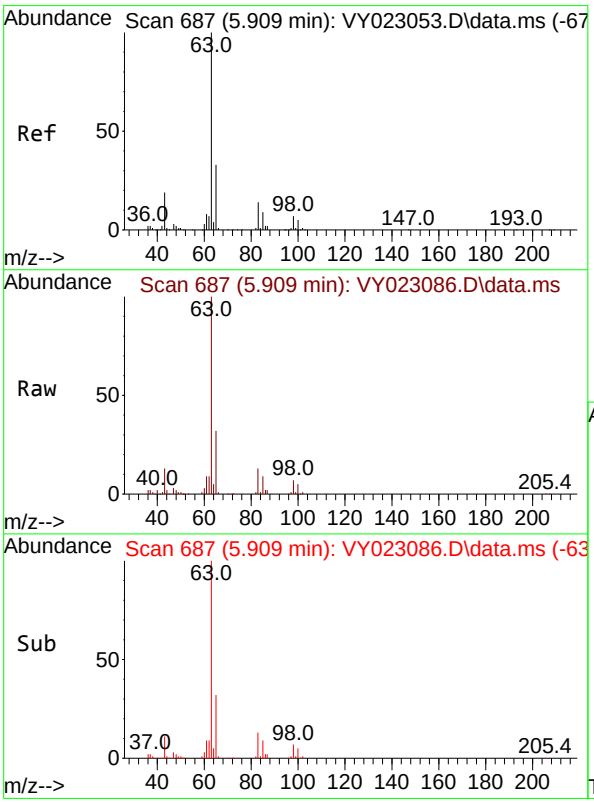
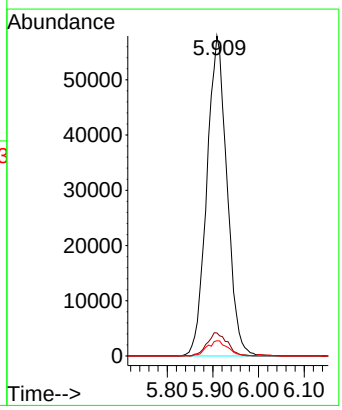
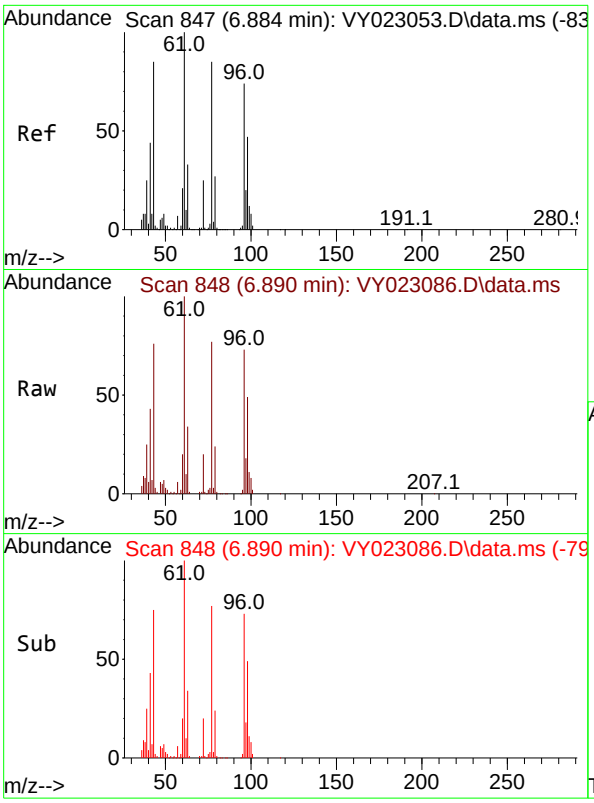


#24
1,1-Dichloroethane
Concen: 20.666 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 177456

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.6
100	4.7	2.4	7.1





#25
2-Butanone
Concen: 88.799 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 11366

Ion	Ratio	Lower	Upper
43	100		
72	26.8	23.5	35.3

Instrument :
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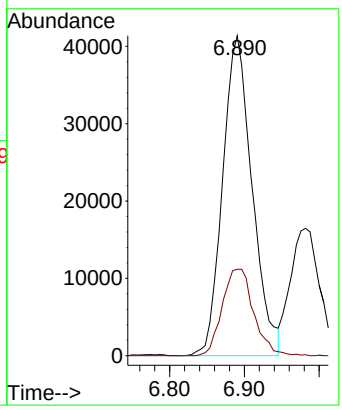
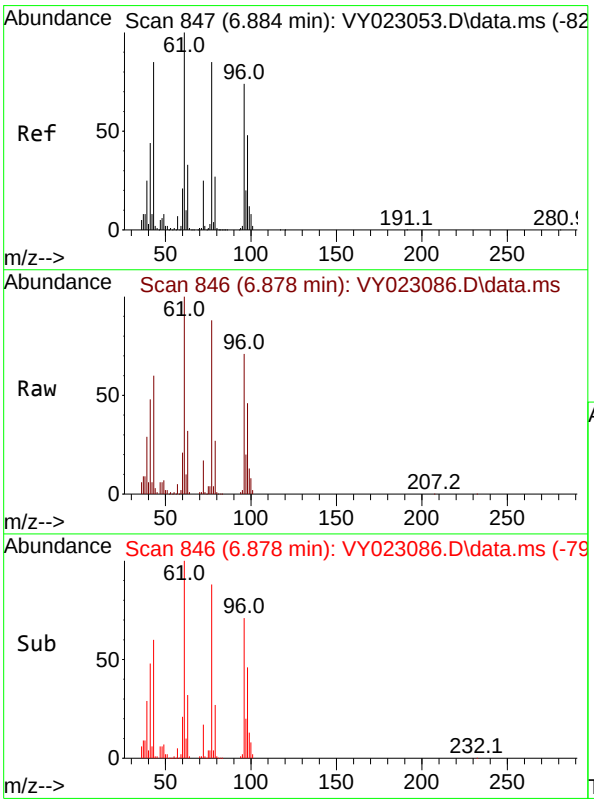
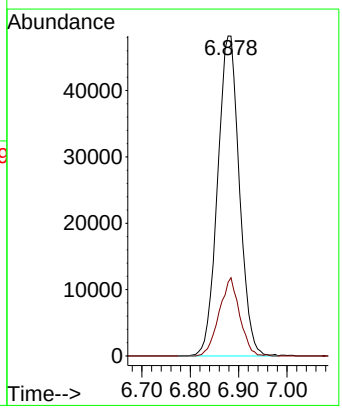


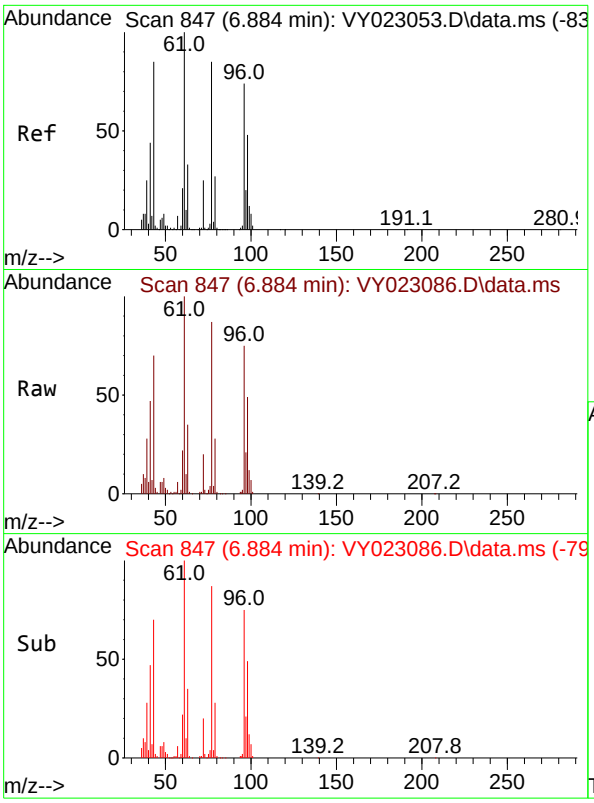


#26
2,2-Dichloropropane
Concen: 20.328 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 77 Resp: 150616

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.6	34.8

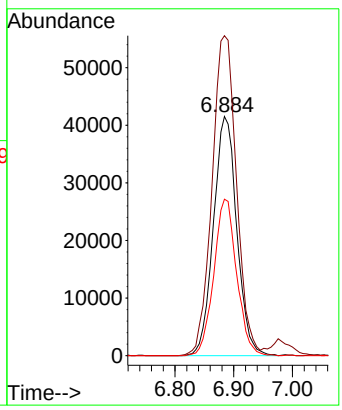




#27
cis-1,2-Dichloroethene
Concen: 20.100 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 11470

Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	278.6
98	64.0	0.0	130.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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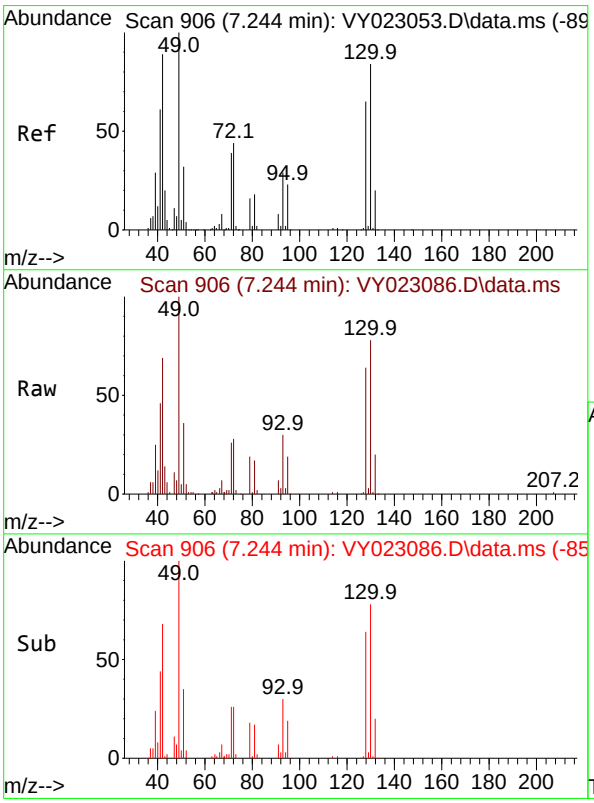
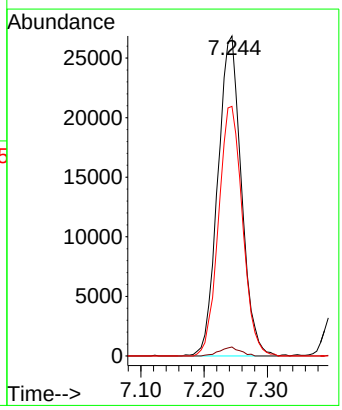
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

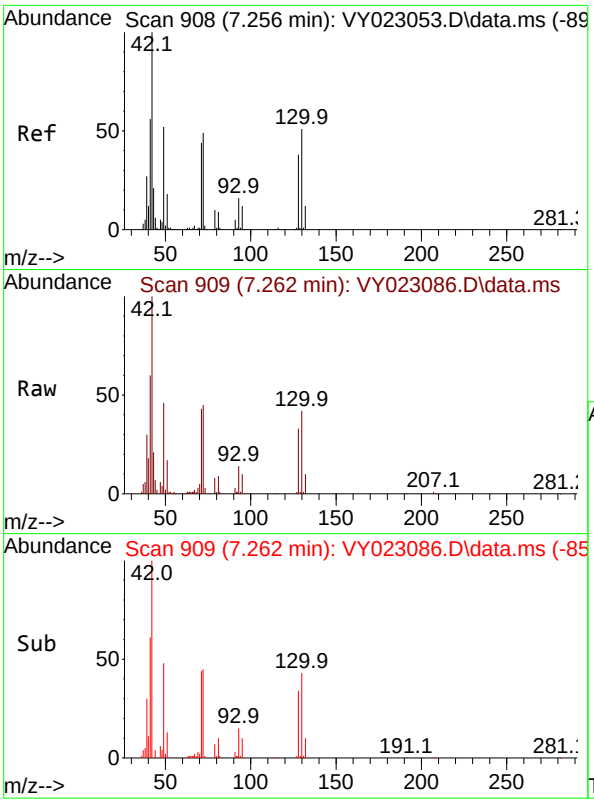


#28
Bromochloromethane
Concen: 20.335 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 49 Resp: 69276

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	79.4	66.4	99.6





#29
Tetrahydrofuran
Concen: 85.363 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 42 Resp: 6773

Ion	Ratio	Lower	Upper
42	100		
72	45.3	39.4	59.2
71	43.6	36.5	54.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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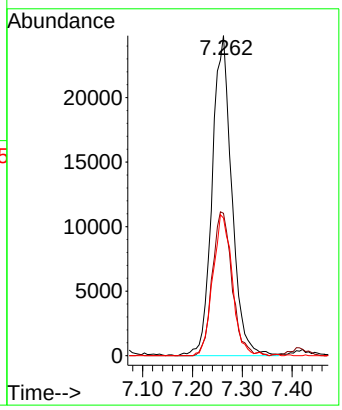
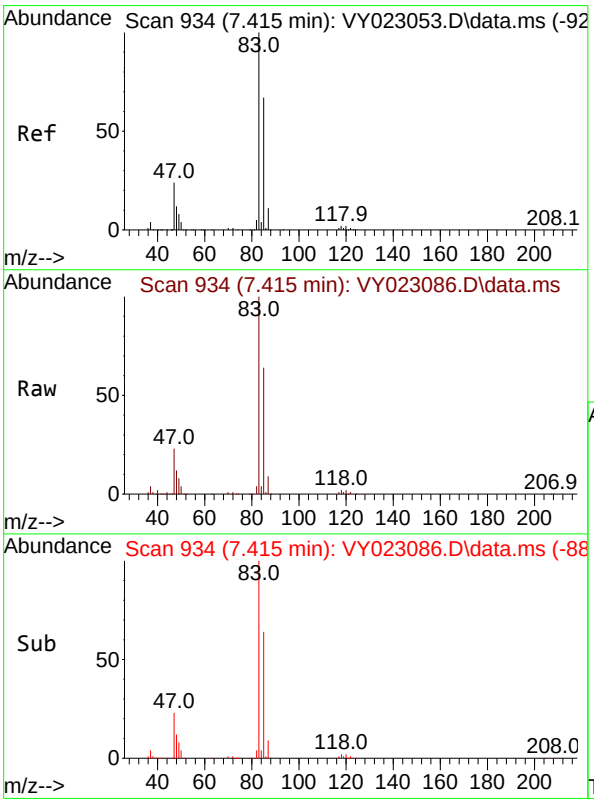
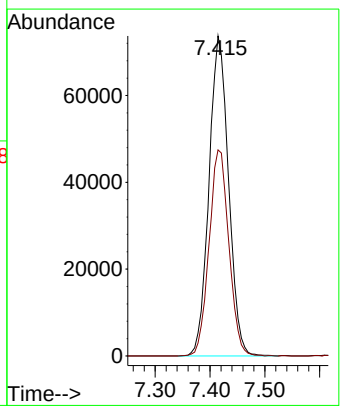


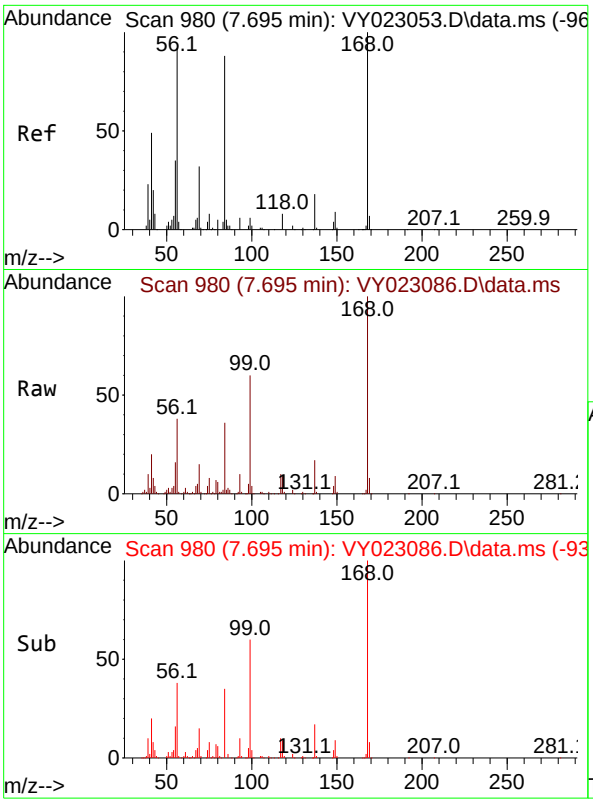


#30
Chloroform
Concen: 20.591 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 182352

Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.8	80.8

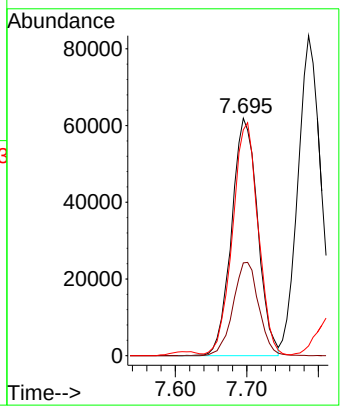




#31
Cyclohexane
Concen: 19.392 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 56 Resp: 15691

Ion	Ratio	Lower	Upper
56	100		
69	39.1	28.2	42.2
84	93.6	76.6	114.8



Instrument :
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ClientSampleId :
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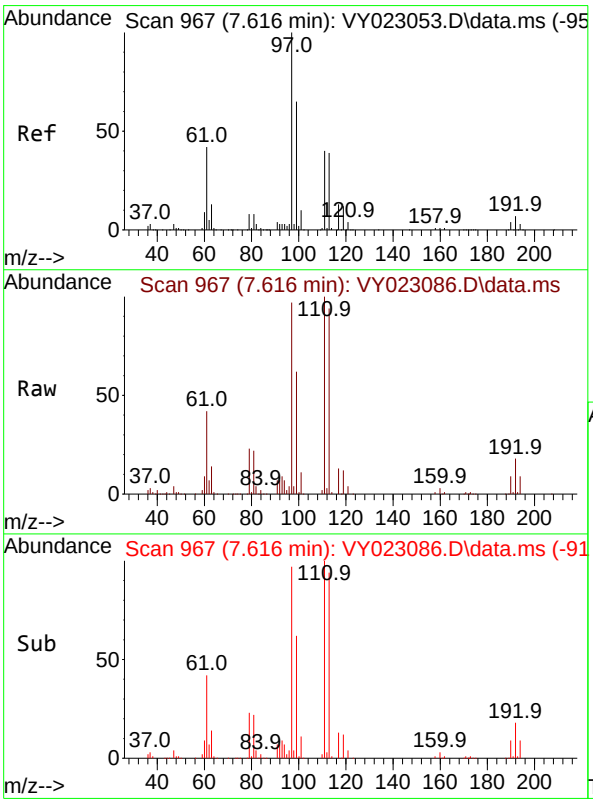
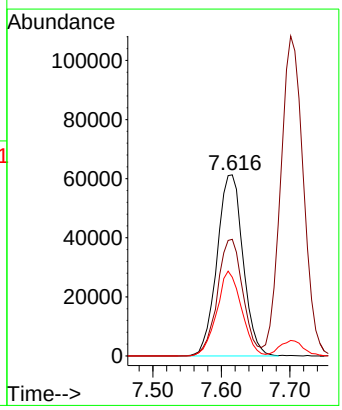
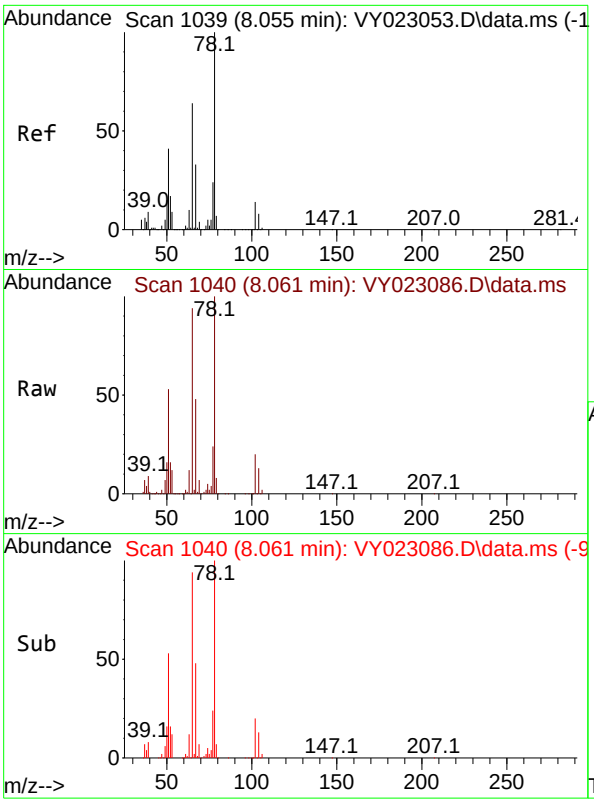


#32
1,1,1-Trichloroethane
Concen: 20.543 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 97 Resp: 161426

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.6	77.4
61	44.8	34.2	51.2

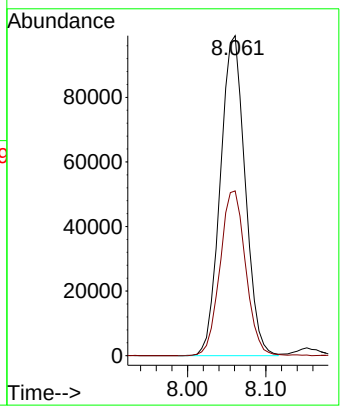




#33
1,2-Dichloroethane-d4
Concen: 50.253 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 65 Resp: 2183

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.8



Instrument :
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ClientSampleId :
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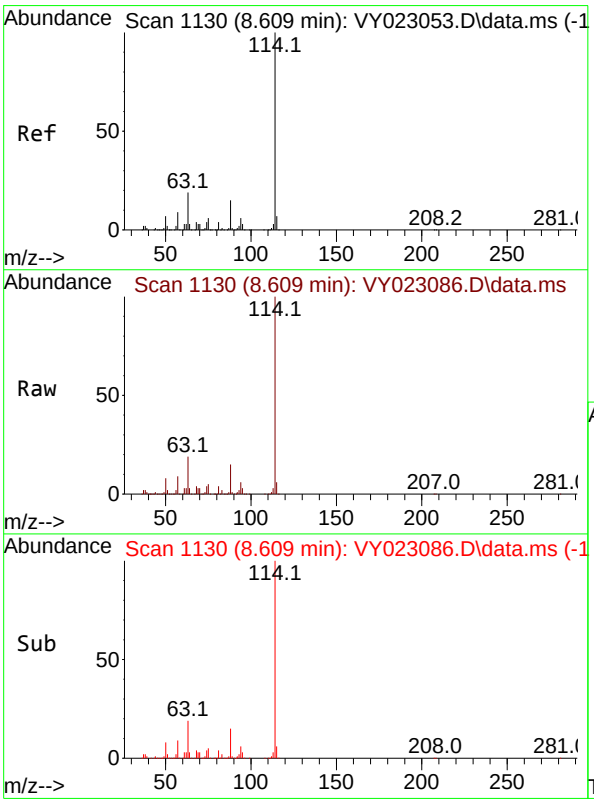
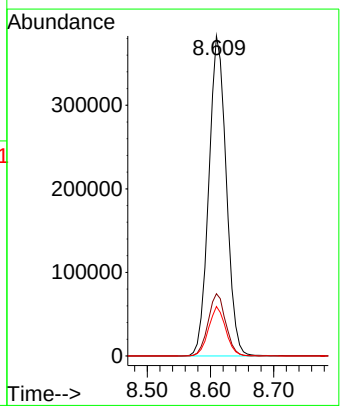
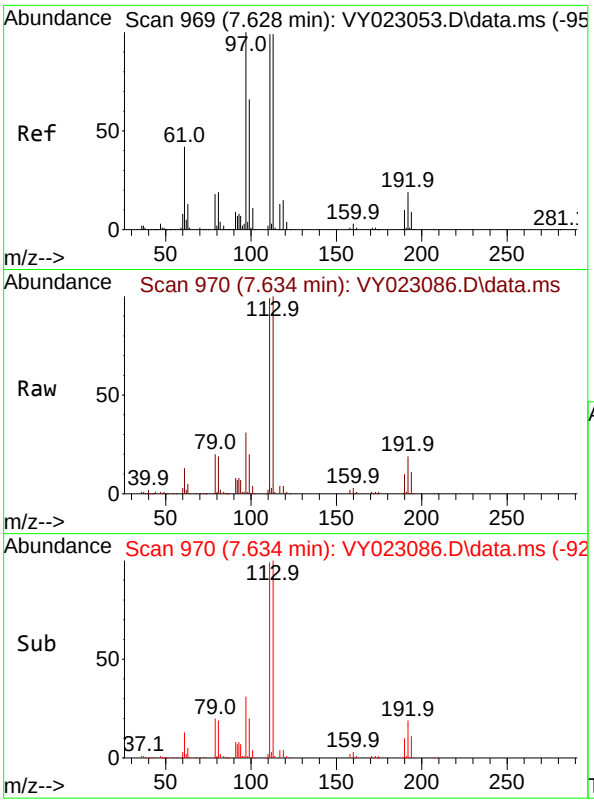


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:114 Resp: 734618

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	38.4
88	15.4	0.0	30.0

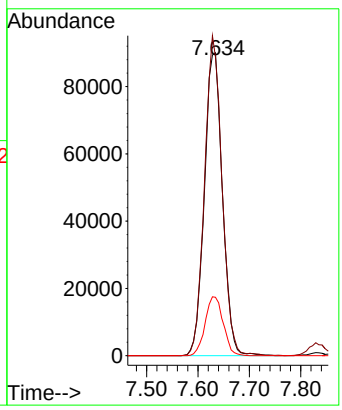




#35
Dibromofluoromethane
Concen: 50.078 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:113 Resp: 22013

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.1	121.7
192	19.4	16.2	24.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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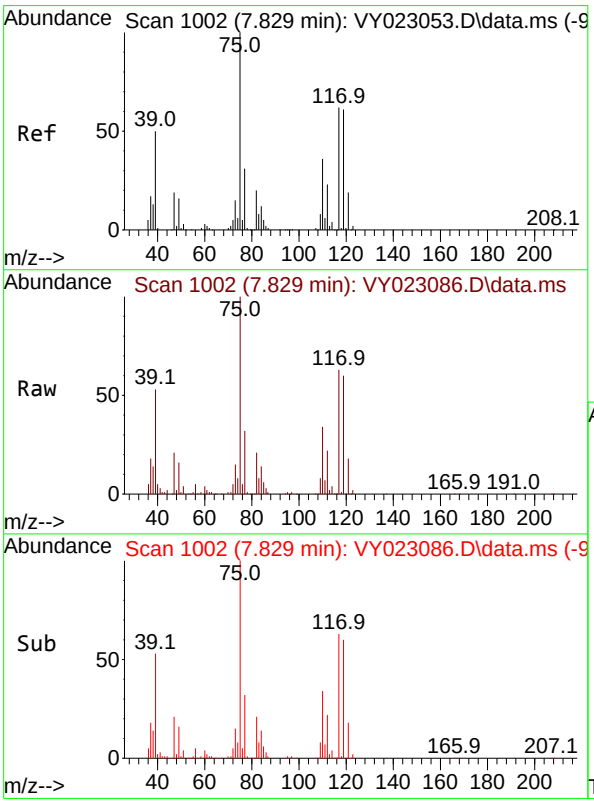
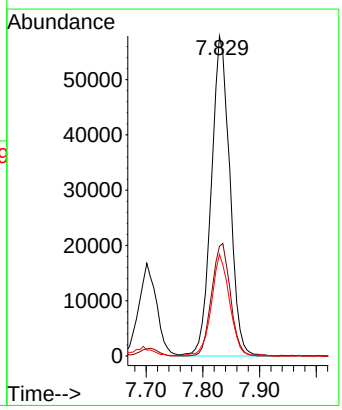
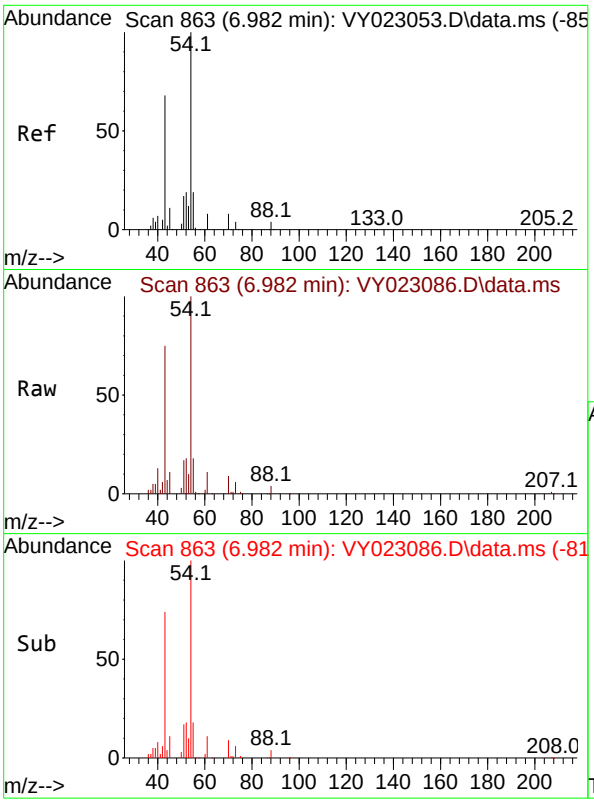


#36
1,1-Dichloropropene
Concen: 20.063 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 131067

Ion	Ratio	Lower	Upper
75	100		
110	35.5	18.1	54.4
77	30.8	24.6	37.0





#37
Ethyl Acetate
Concen: 16.687 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 4579

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.9	17.9
70	11.4	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
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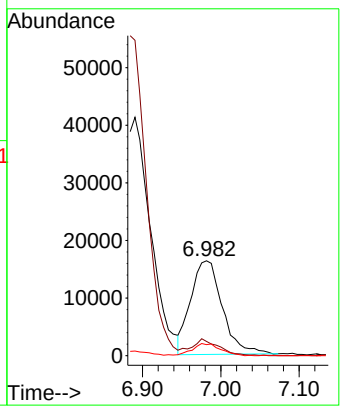
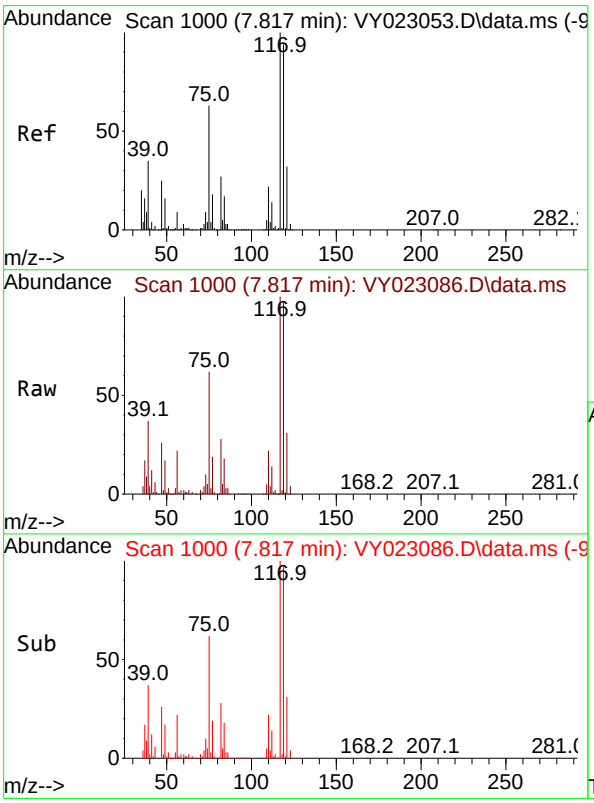
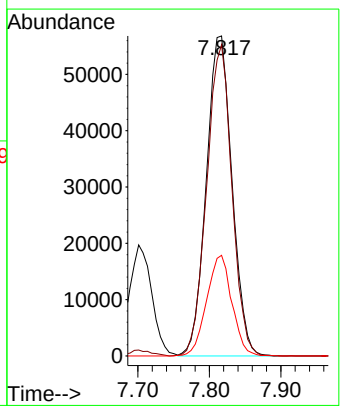


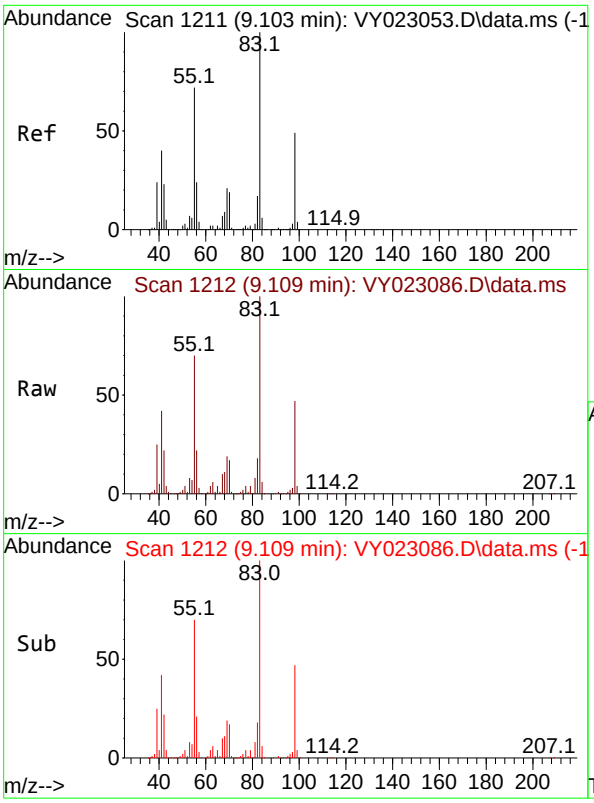


#38
Carbon Tetrachloride
Concen: 20.062 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 142349

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.6	113.4
121	31.4	25.8	38.8





#39
Methylcyclohexane
Concen: 18.690 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 16078

Ion	Ratio	Lower	Upper
83	100		
55	69.6	57.6	86.4
98	47.1	39.2	58.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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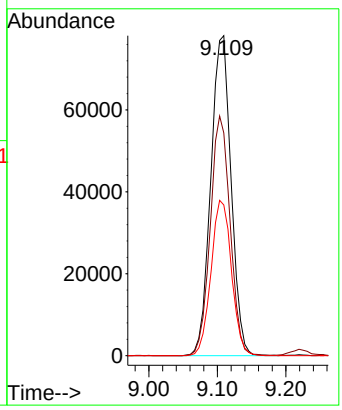
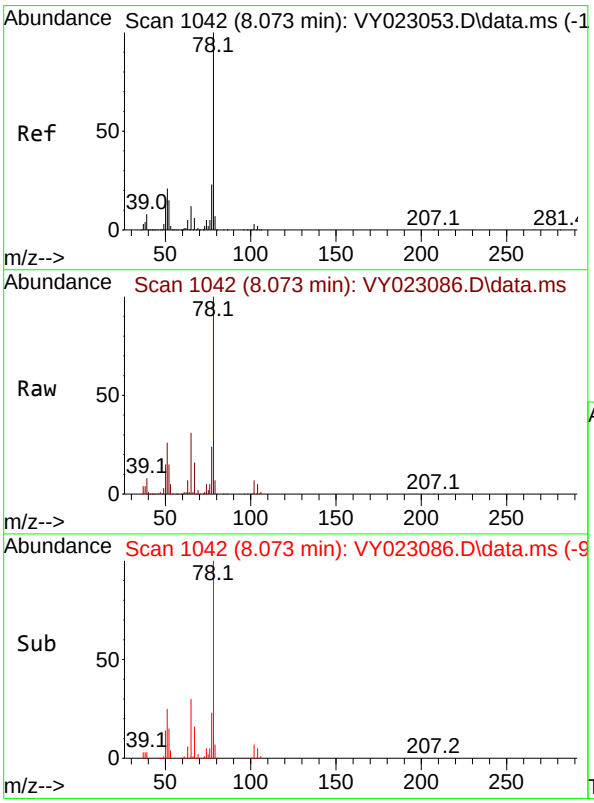
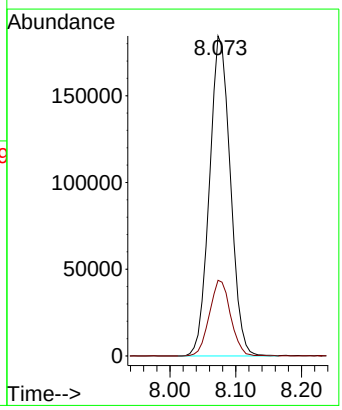


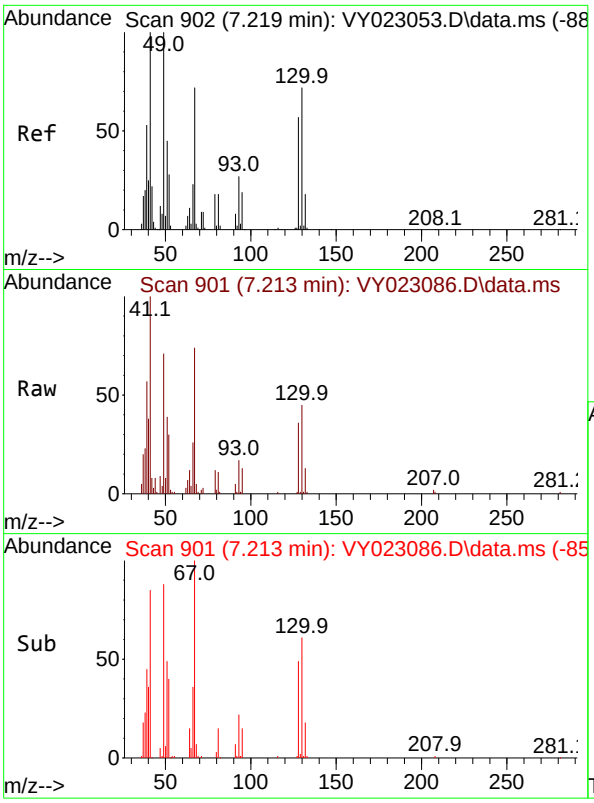


#40
Benzene
Concen: 20.306 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 78 Resp: 408860

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.6	28.0





#41
Methacrylonitrile
Concen: 14.607 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 2313

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.4	65.2
67	97.5	63.6	95.4
52	41.5	25.4	38.2#

Instrument :
MSVOA_Y
ClientSampleId :
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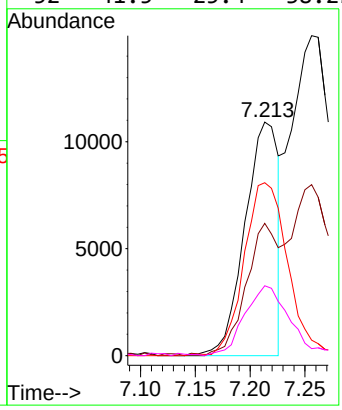
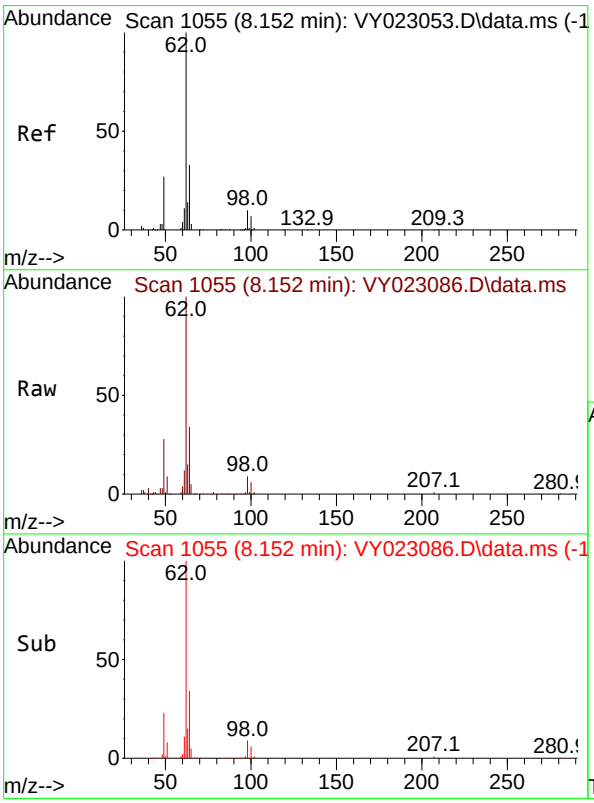
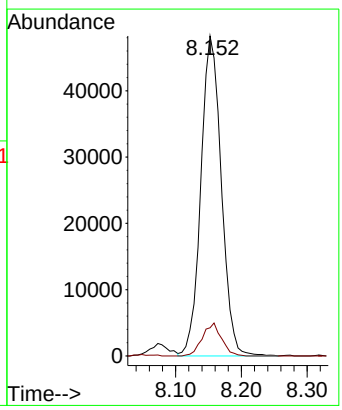


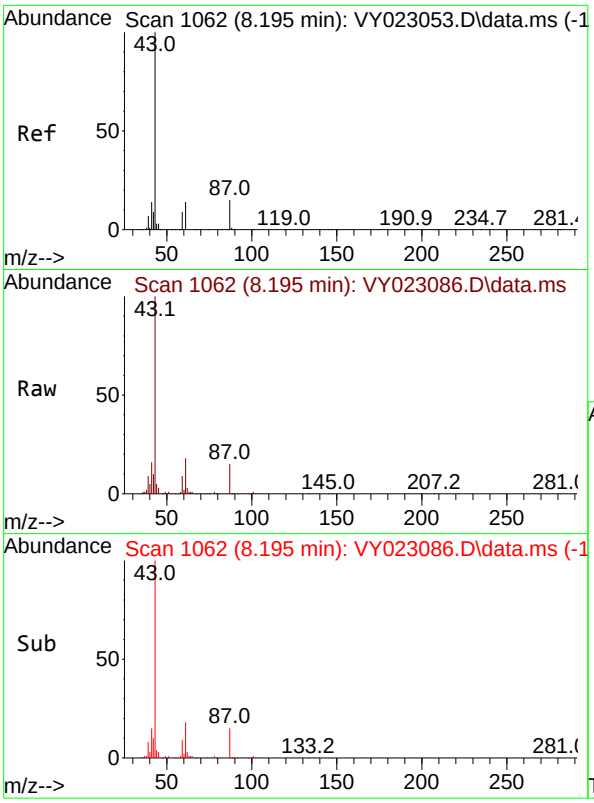


#42
1,2-Dichloroethane
Concen: 19.970 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 104577

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6

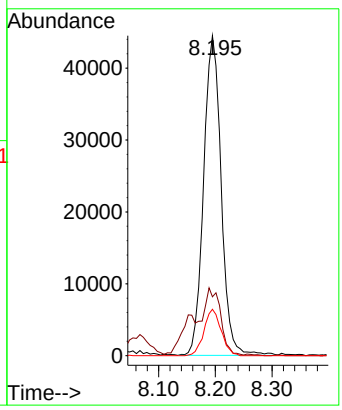




#43
Isopropyl Acetate
Concen: 17.262 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 9574

Ion	Ratio	Lower	Upper
43	100		
61	19.7	16.4	24.6
87	14.2	11.8	17.6



Instrument :
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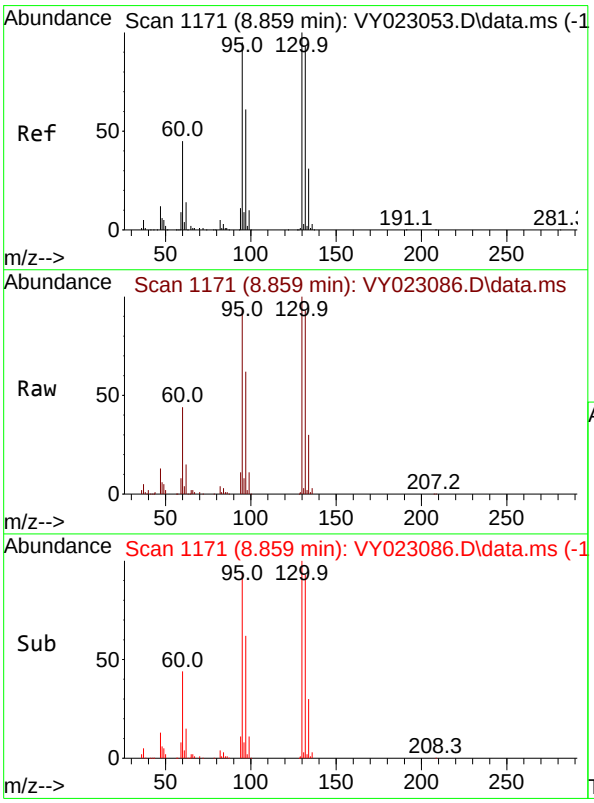
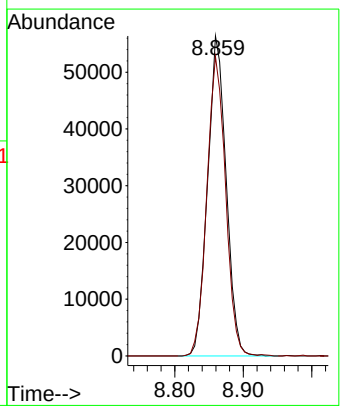
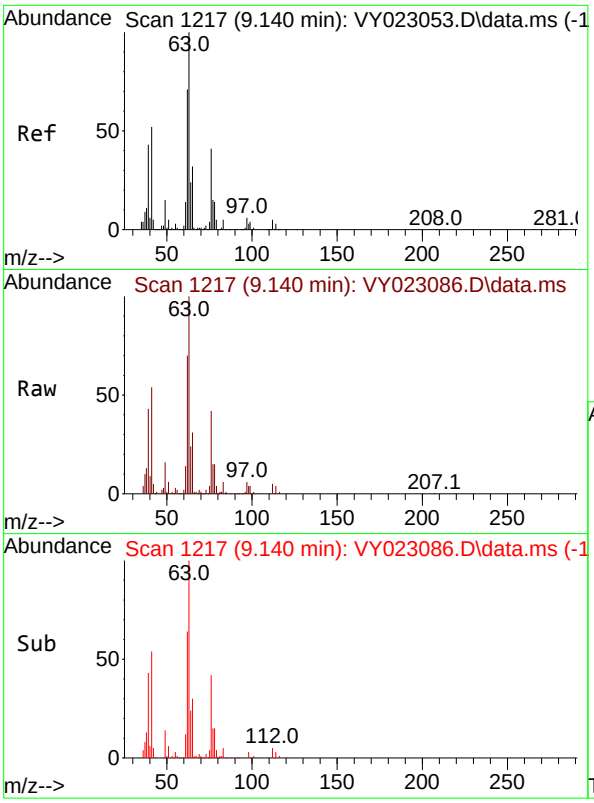


#44
Trichloroethene
Concen: 20.488 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:130 Resp: 106605

Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	190.2

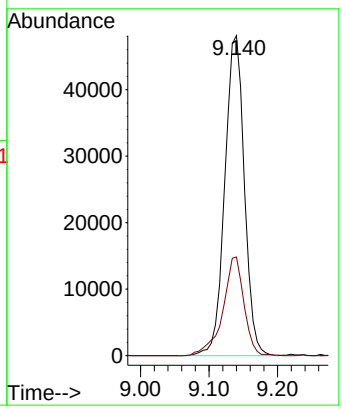




#45
1,2-Dichloropropane
Concen: 20.603 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 9544

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.3	37.9



Instrument :
MSVOA_Y
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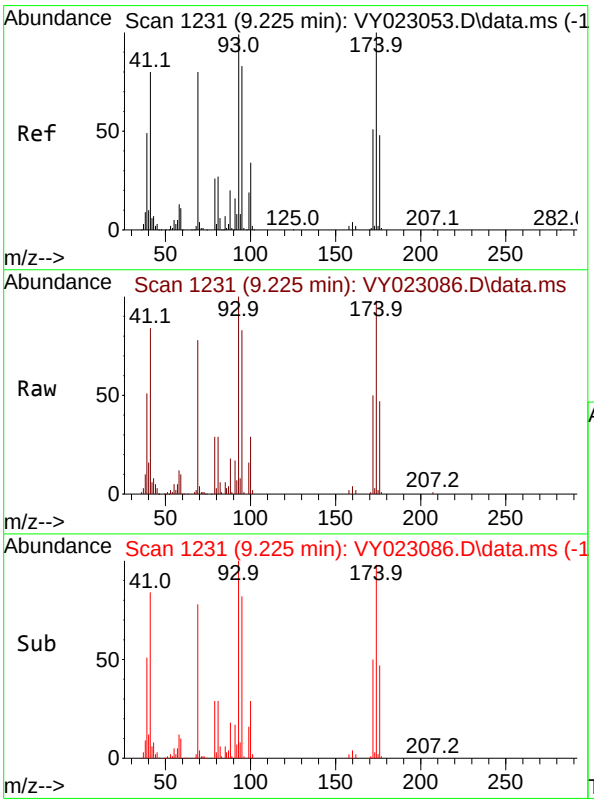
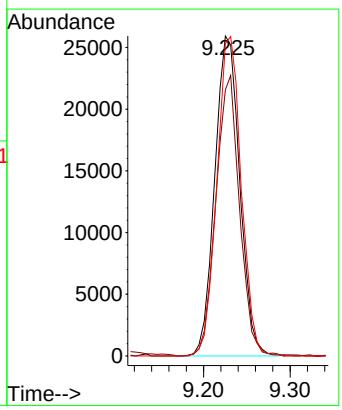
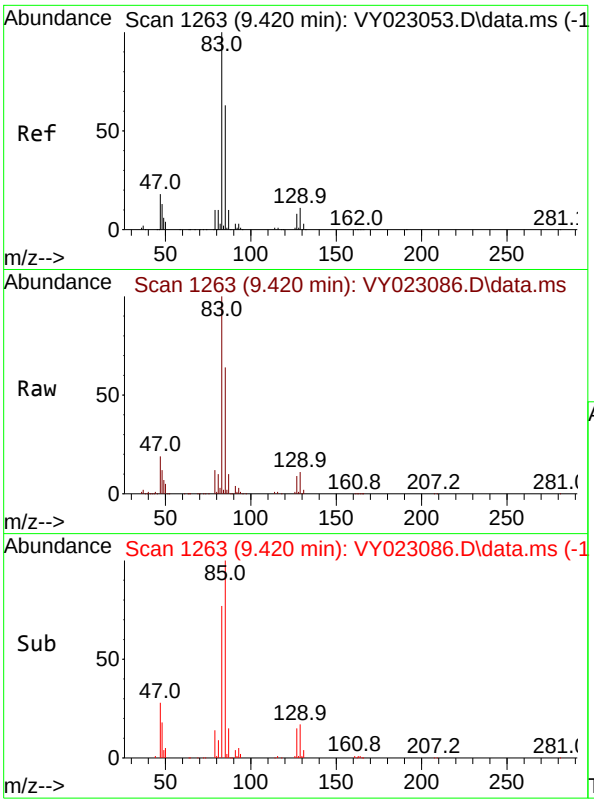


#46
Dibromomethane
Concen: 19.543 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 93 Resp: 51967

Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.5	99.7
174	97.3	81.8	122.8

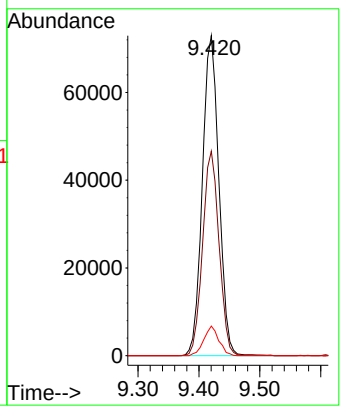




#47
Bromodichloromethane
Concen: 20.042 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 13713

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.2	75.4
127	9.2	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
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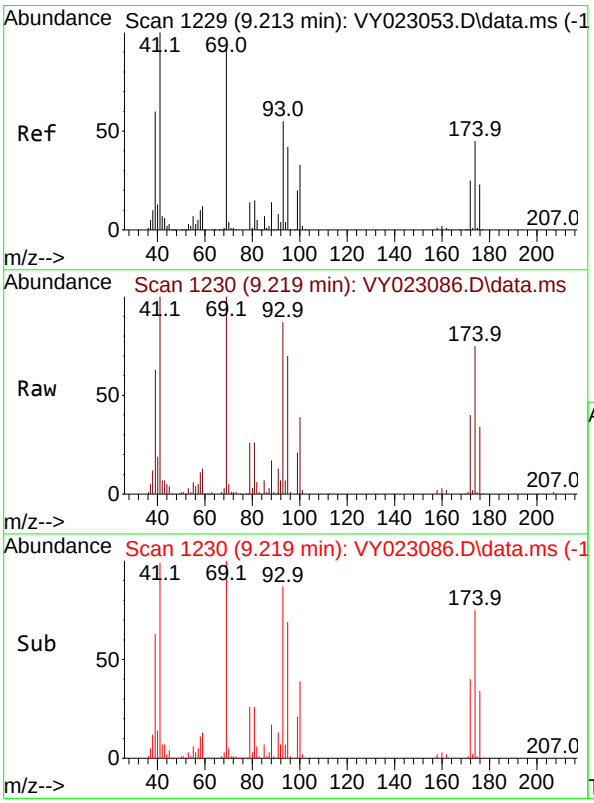
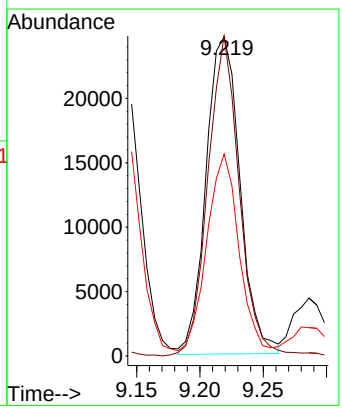
Supervised By :Mahesh Dadoda 08/19/2025

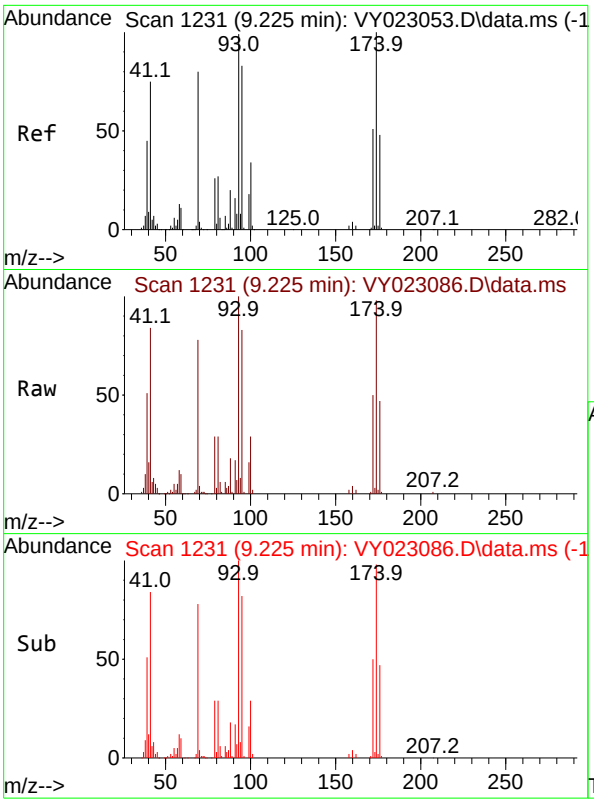


#48
Methyl methacrylate
Concen: 17.327 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 45987

Ion	Ratio	Lower	Upper
41	100		
69	93.6	73.2	109.8
39	58.0	47.0	70.4

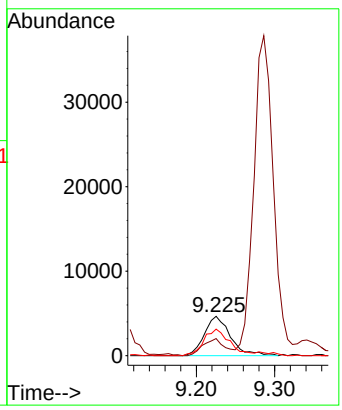




#49
1,4-Dioxane
Concen: 345.913 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 88 Resp: 1078

Ion	Ratio	Lower	Upper
88	100		
43	37.3	24.3	36.5
58	67.2	55.4	83.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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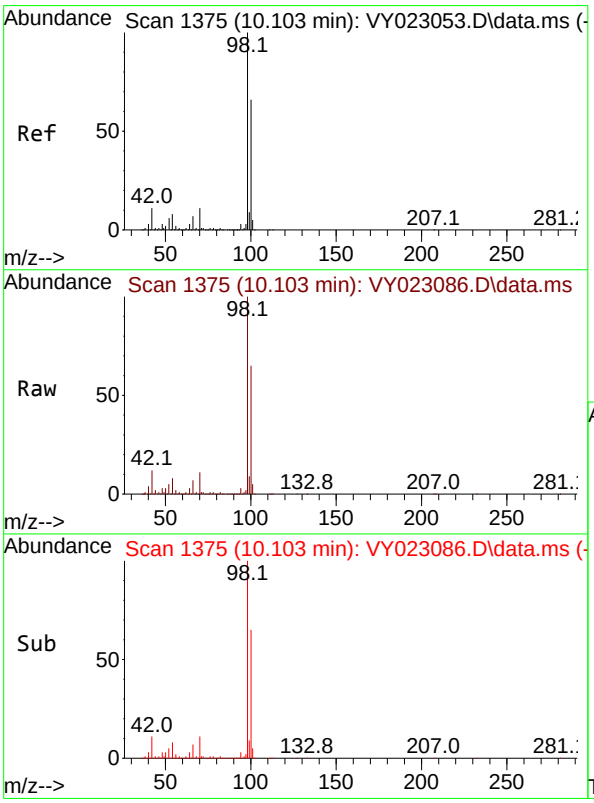
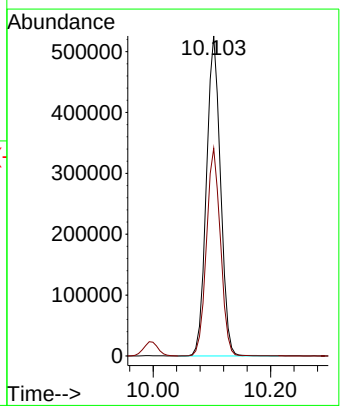
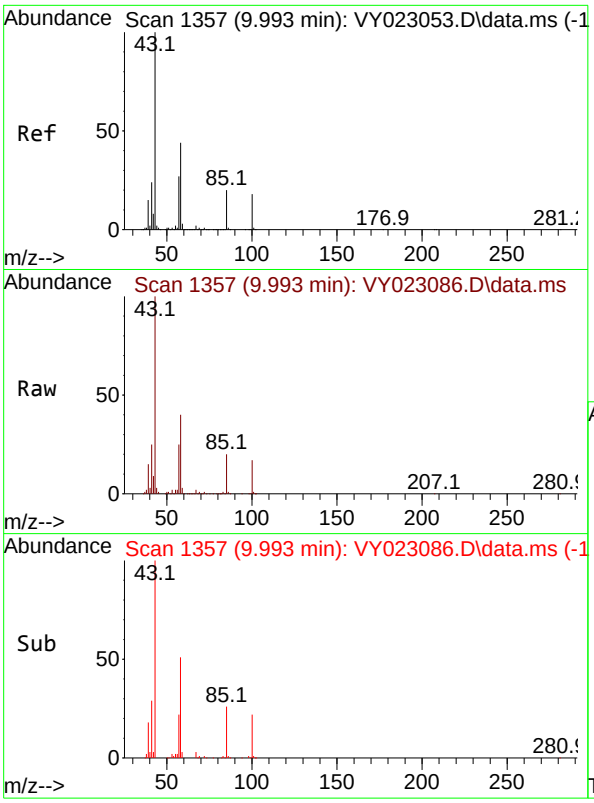


#50
Toluene-d8
Concen: 50.855 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 98 Resp: 873299

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.3	78.5

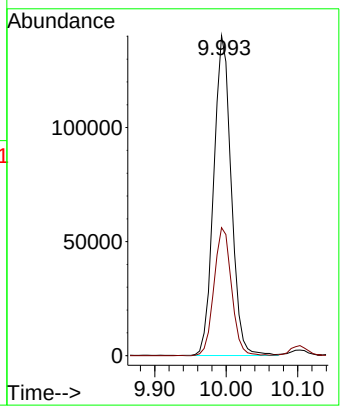




#51
4-Methyl-2-Pentanone
Concen: 83.495 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 23888

Ion	Ratio	Lower	Upper
43	100		
58	40.1	33.5	50.3



Instrument :
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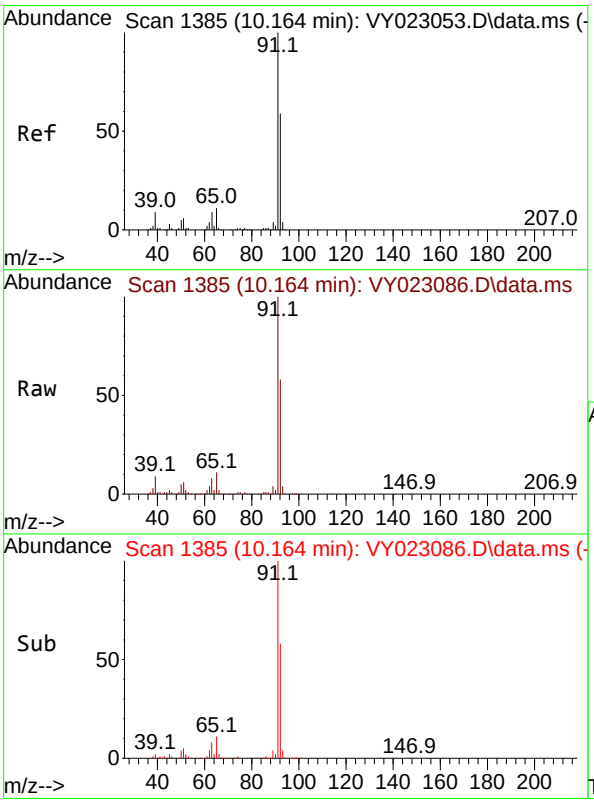
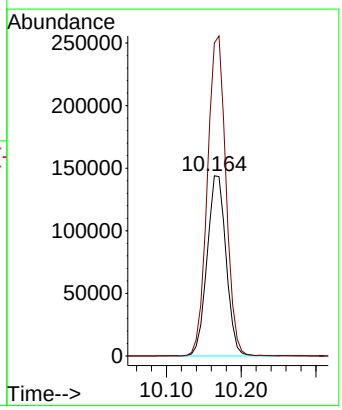
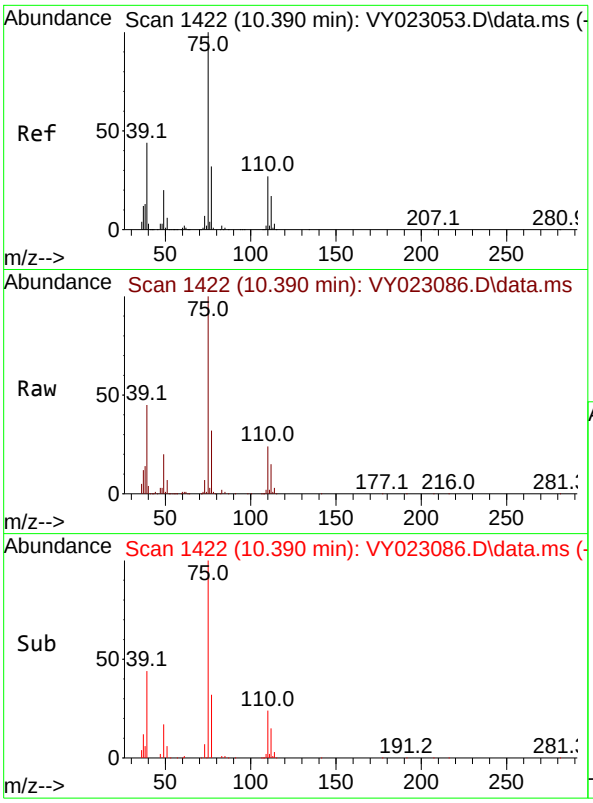


#52
Toluene
Concen: 19.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 92 Resp: 252944

Ion	Ratio	Lower	Upper
92	100		
91	174.7	136.4	204.6

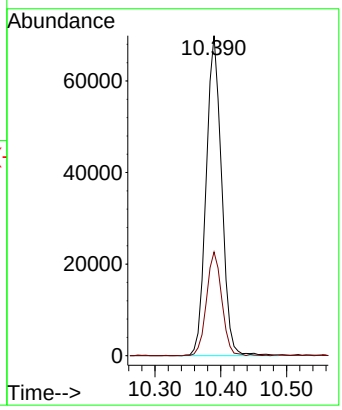




#53
t-1,3-Dichloropropene
Concen: 18.458 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 11436

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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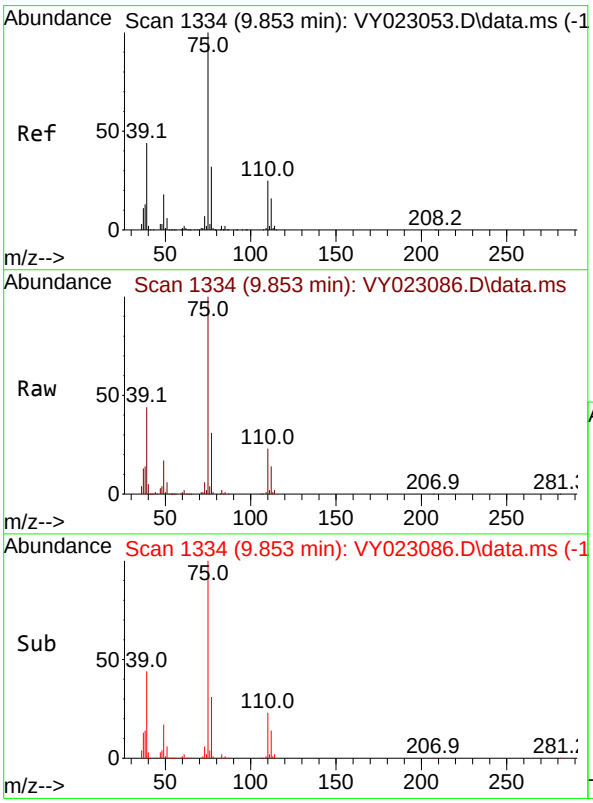
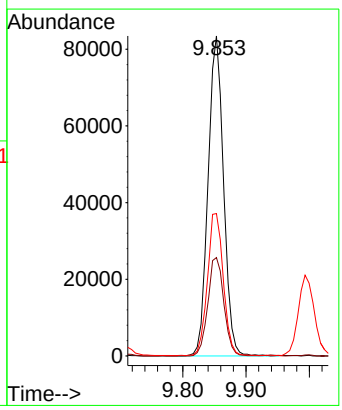
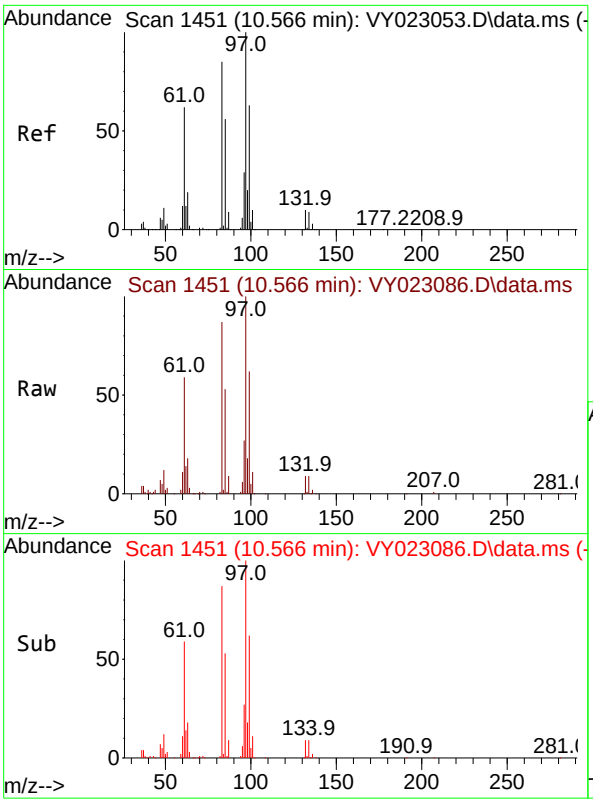


#54
cis-1,3-Dichloropropene
Concen: 19.379 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 141980

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0
39	44.3	35.6	53.4

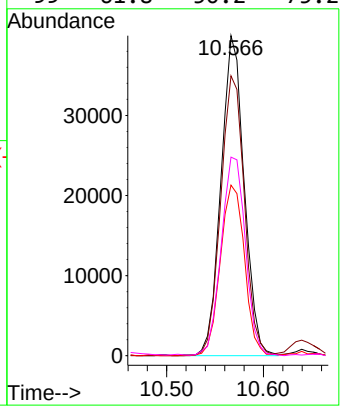




#55
1,1,2-Trichloroethane
Concen: 18.734 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 97 Resp: 6665

Ion	Ratio	Lower	Upper
97	100		
83	87.4	67.7	101.5
85	53.3	44.5	66.7
99	61.8	50.2	75.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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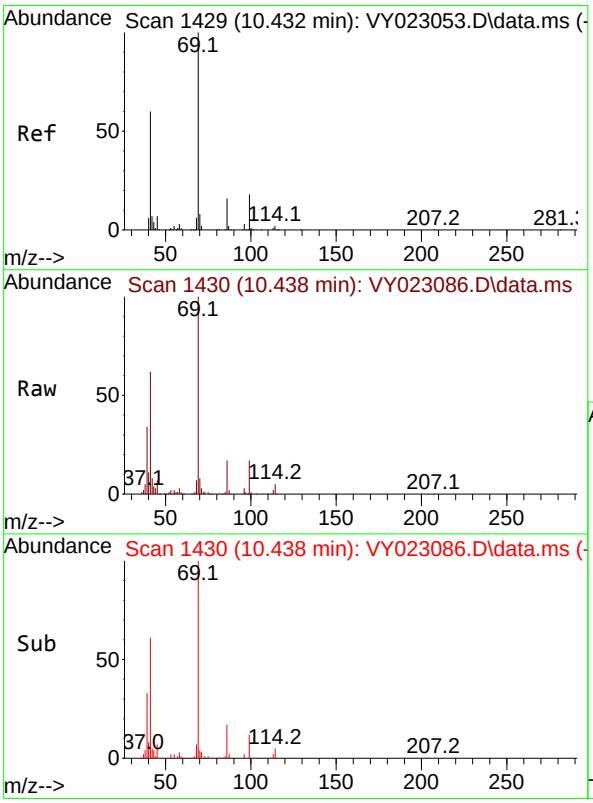
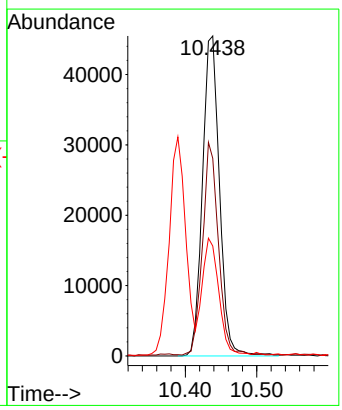
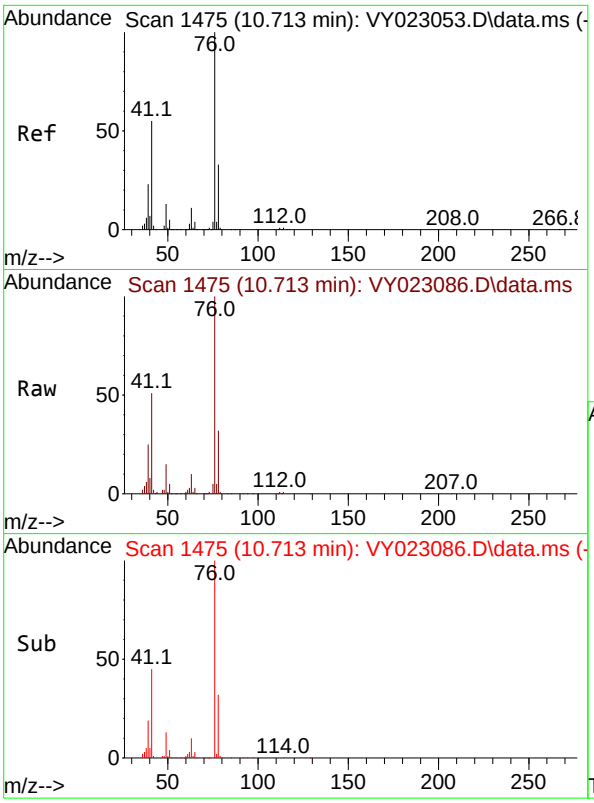


#56
Ethyl methacrylate
Concen: 16.500 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 69 Resp: 75122

Ion	Ratio	Lower	Upper
69	100		
41	61.9	48.6	72.8
39	35.1	27.0	40.4

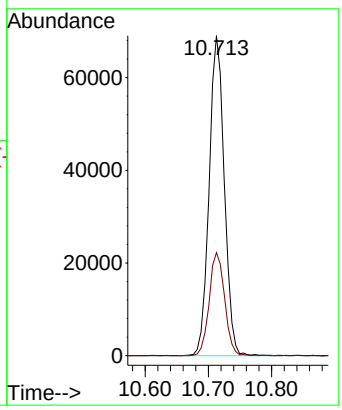




#57
1,3-Dichloropropane
Concen: 19.034 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 76 Resp: 11485

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.0	39.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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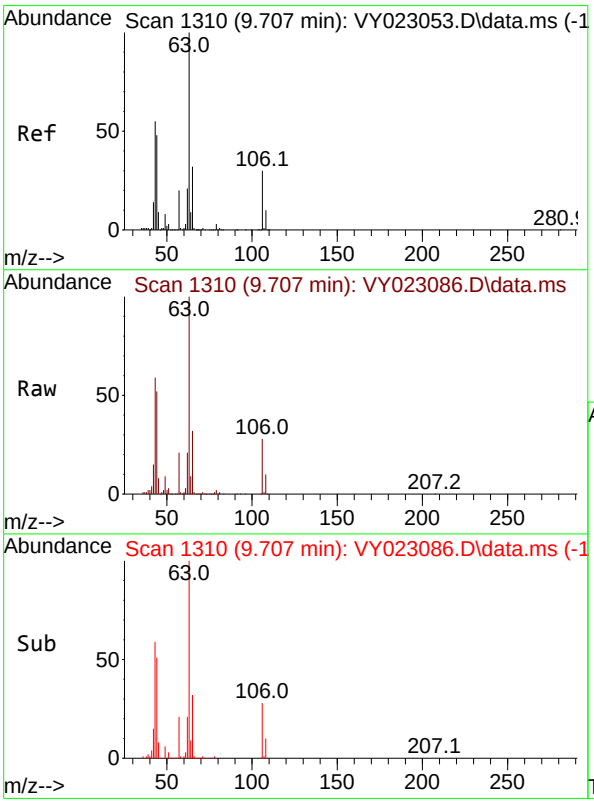
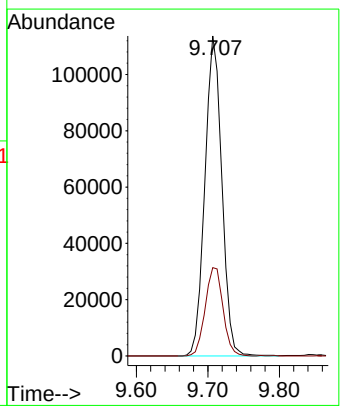
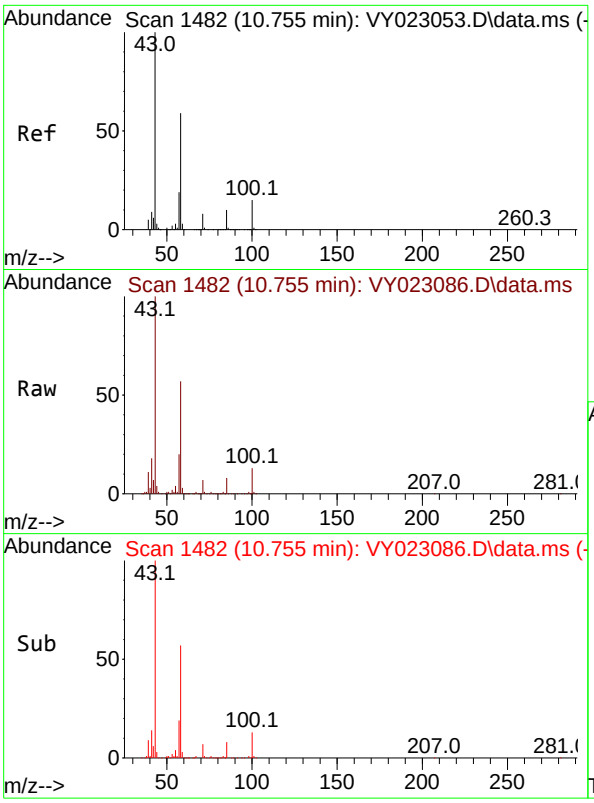


#58
2-Chloroethyl Vinyl ether
Concen: 87.167 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 187201

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8





#59
2-Hexanone
Concen: 81.934 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 15961

Ion	Ratio	Lower	Upper
43	100		
58	57.8	29.5	88.5

Instrument :
MSVOA_Y
ClientSampleId :
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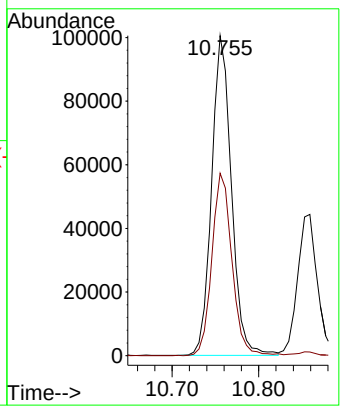
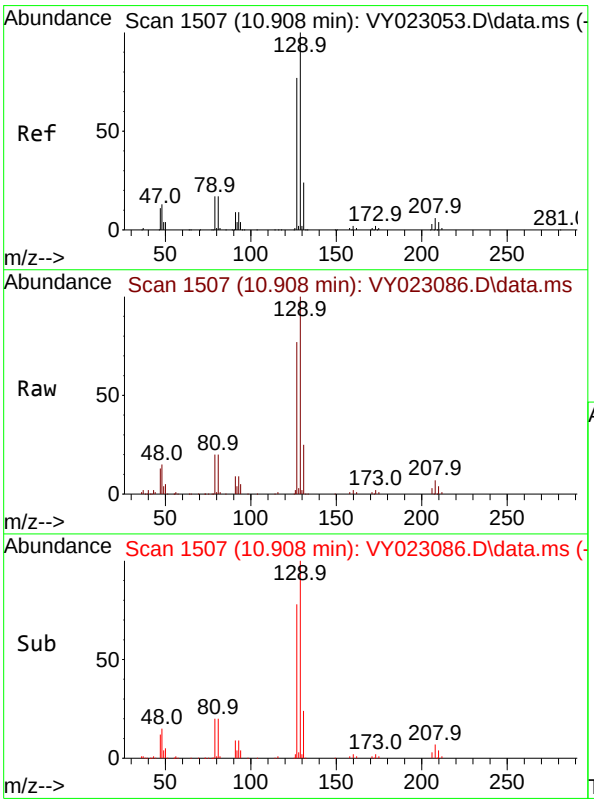
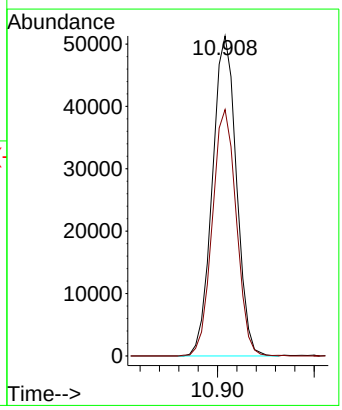


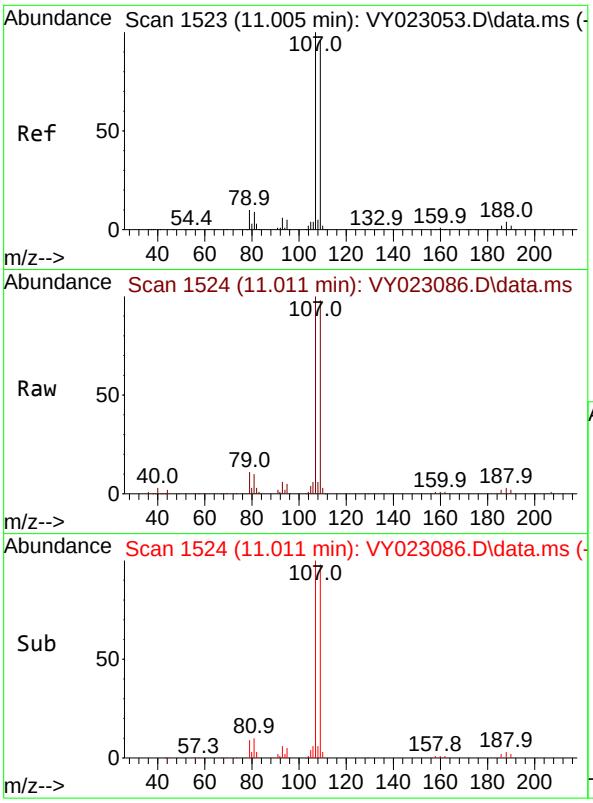


#60
Dibromochloromethane
Concen: 18.819 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:129 Resp: 88354

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.5

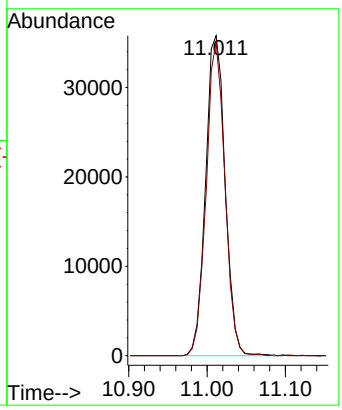




#61
1,2-Dibromoethane
Concen: 18.463 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:107 Resp: 6174

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.6	113.4



Instrument :
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ClientSampleId :
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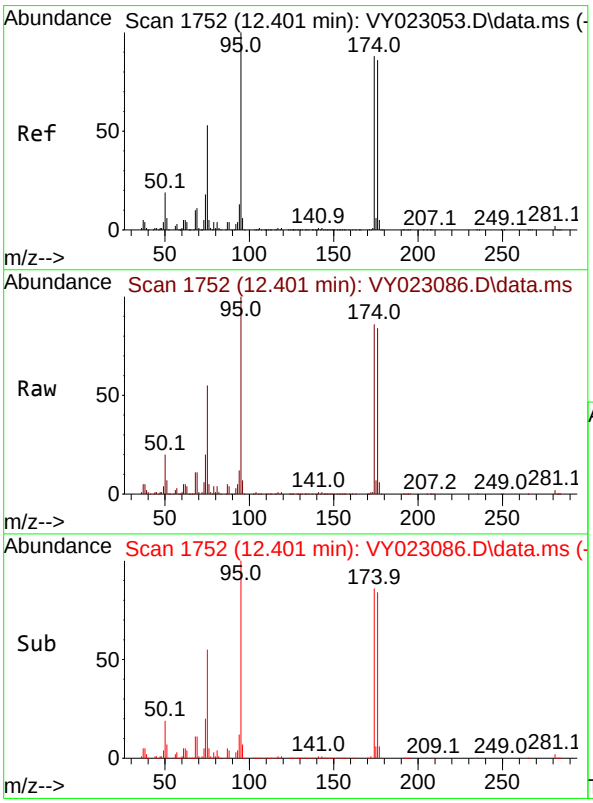
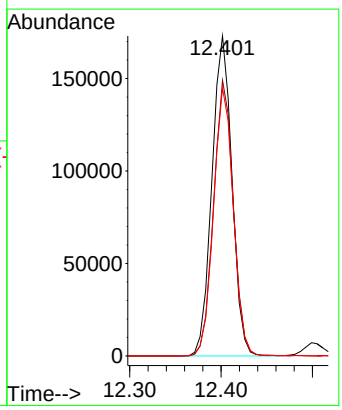
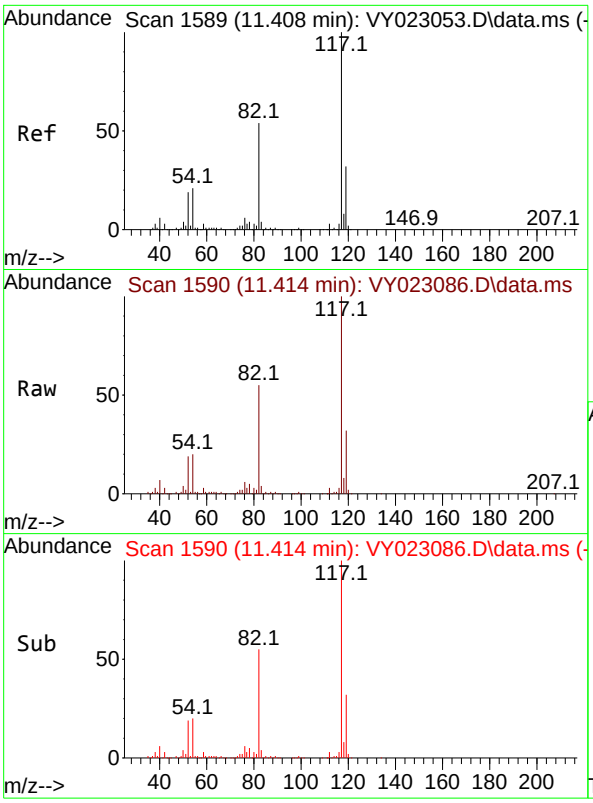


#62
4-Bromofluorobenzene
Concen: 47.657 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 95 Resp: 263190

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	171.6
176	82.8	0.0	167.6

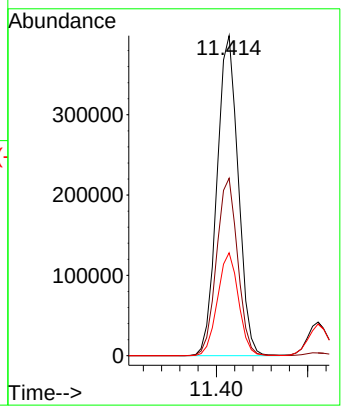




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 64177

Ion	Ratio	Lower	Upper
117	100		
82	55.5	43.4	65.0
119	32.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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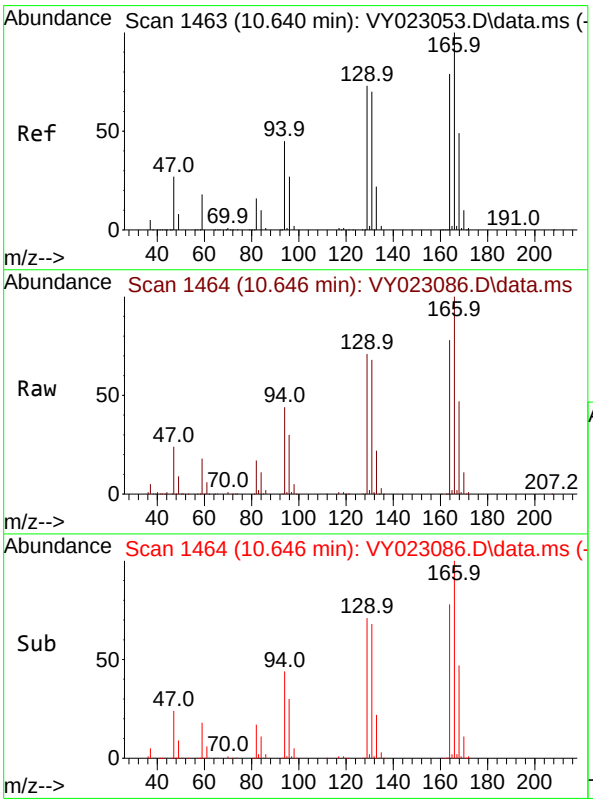
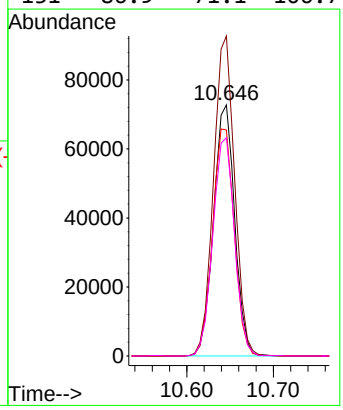
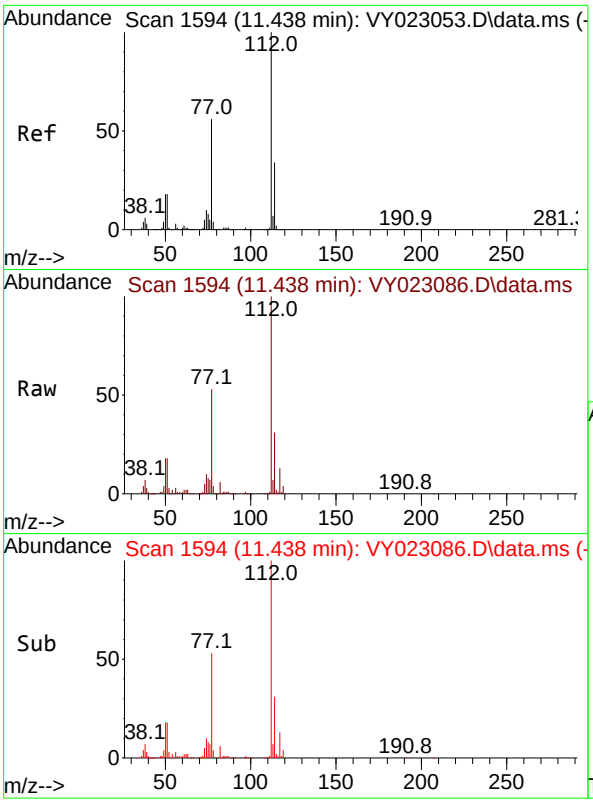


#64
Tetrachloroethene
Concen: 21.538 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:164 Resp: 123429

Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.1	151.7
129	90.0	74.0	111.0
131	86.9	71.1	106.7

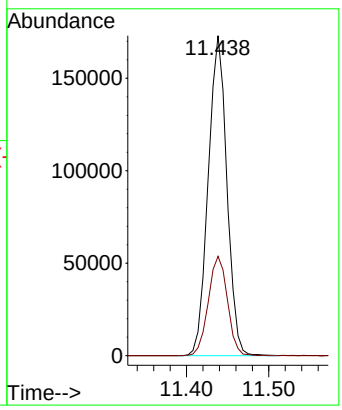




#65
Chlorobenzene
Concen: 19.716 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:112 Resp: 27293

Ion	Ratio	Lower	Upper
112	100		
114	31.1	27.0	40.4



Instrument :
MSVOA_Y
ClientSampleId :
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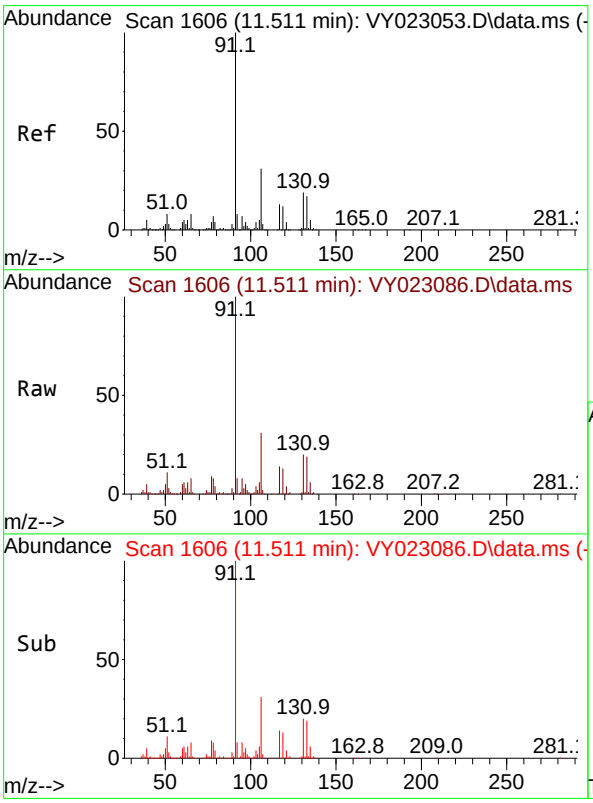
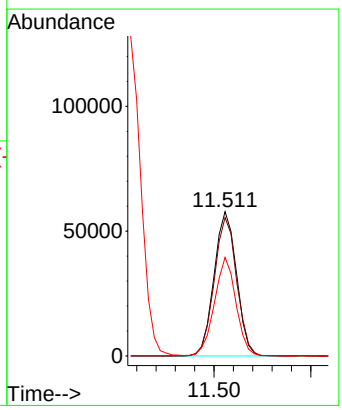
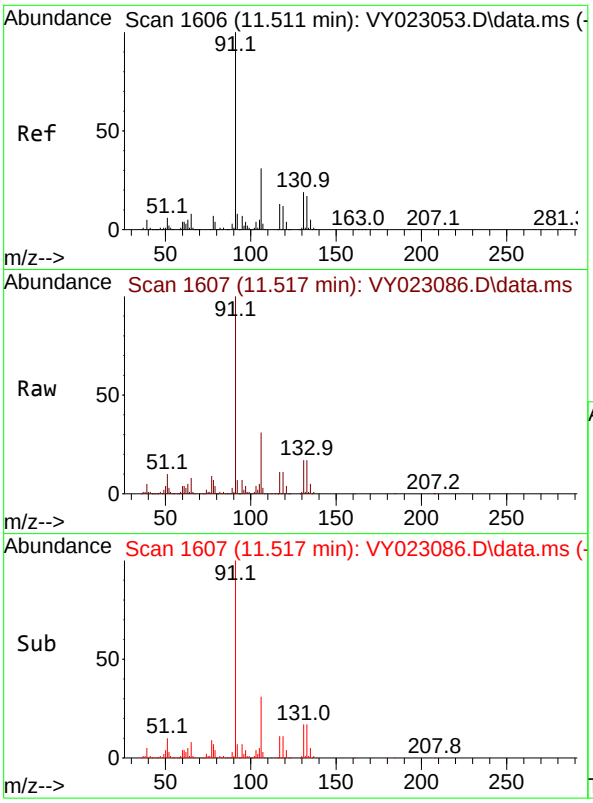


#66
1,1,1,2-Tetrachloroethane
Concen: 19.819 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:131 Resp: 93115

Ion	Ratio	Lower	Upper
131	100		
133	96.1	46.9	140.6
119	65.5	33.2	99.6

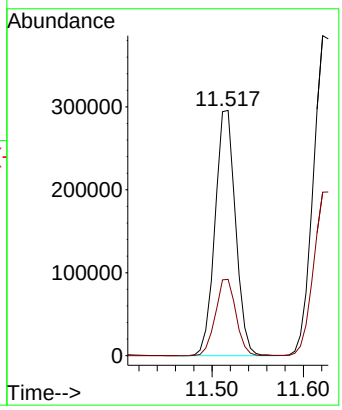




#67
Ethyl Benzene
Concen: 19.391 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 46195

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.0	37.4



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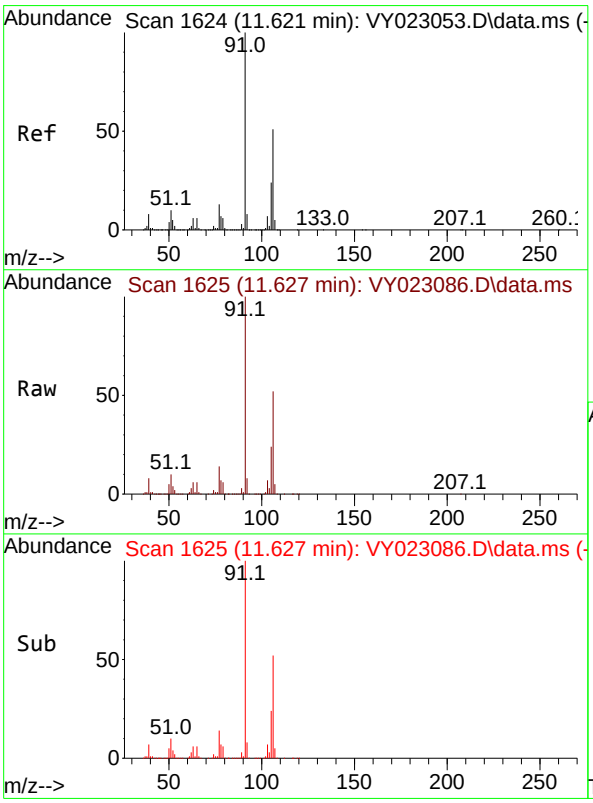
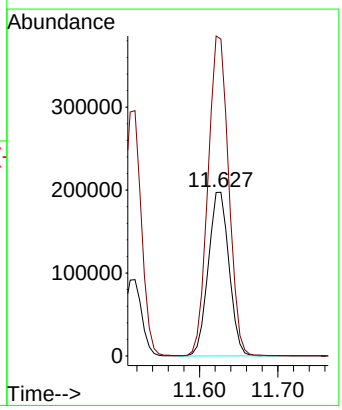
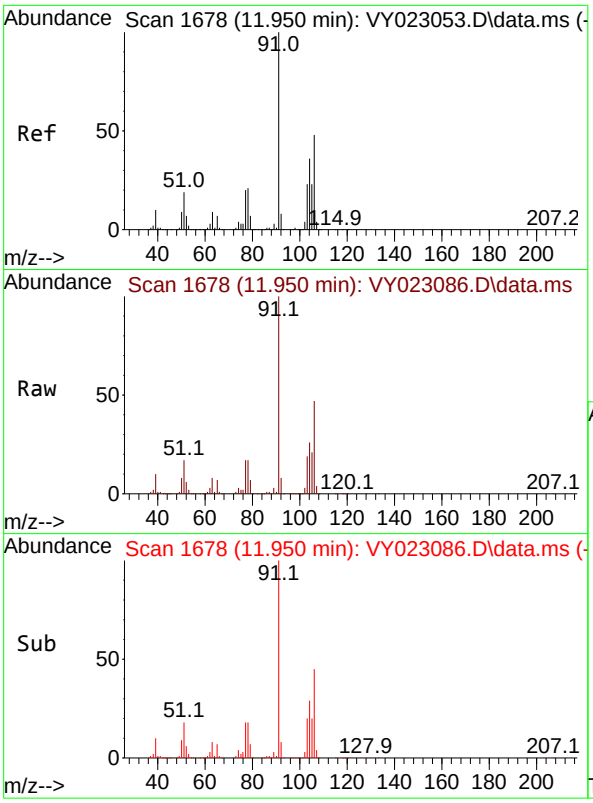


#68
m/p-Xylenes
Concen: 38.921 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:106 Resp: 362129

Ion	Ratio	Lower	Upper
106	100		
91	195.1	158.6	238.0





#69
o-Xylene
Concen: 18.990 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:106 Resp: 16548

Ion	Ratio	Lower	Upper
106	100		
91	210.3	103.2	309.4

Instrument :
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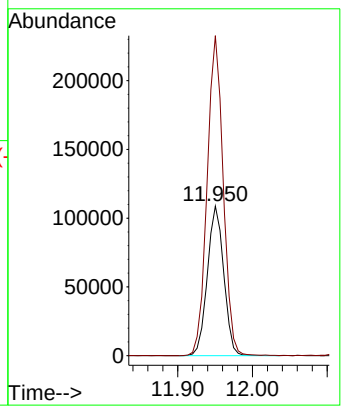
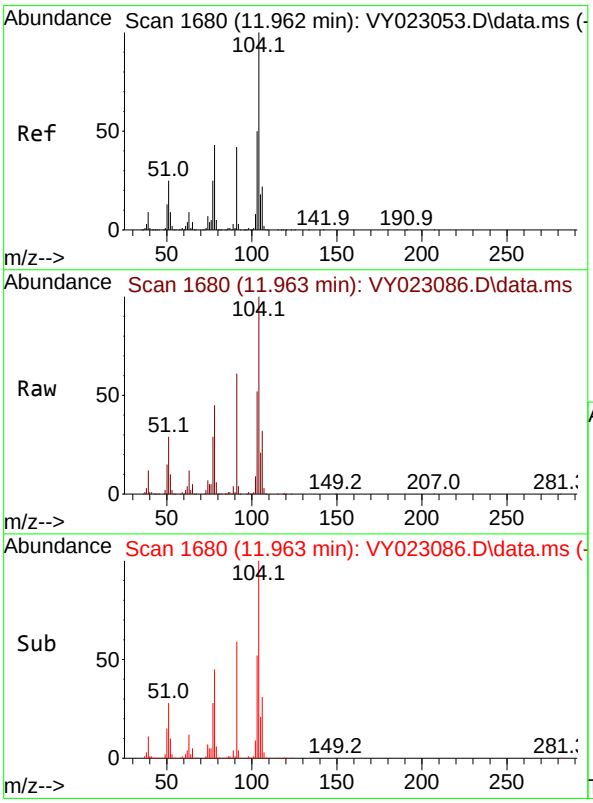
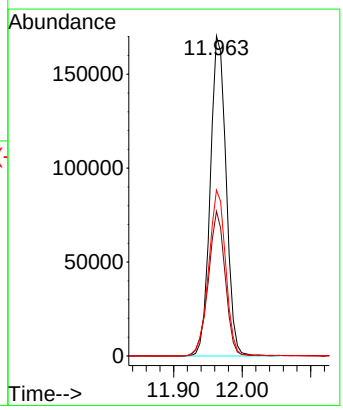


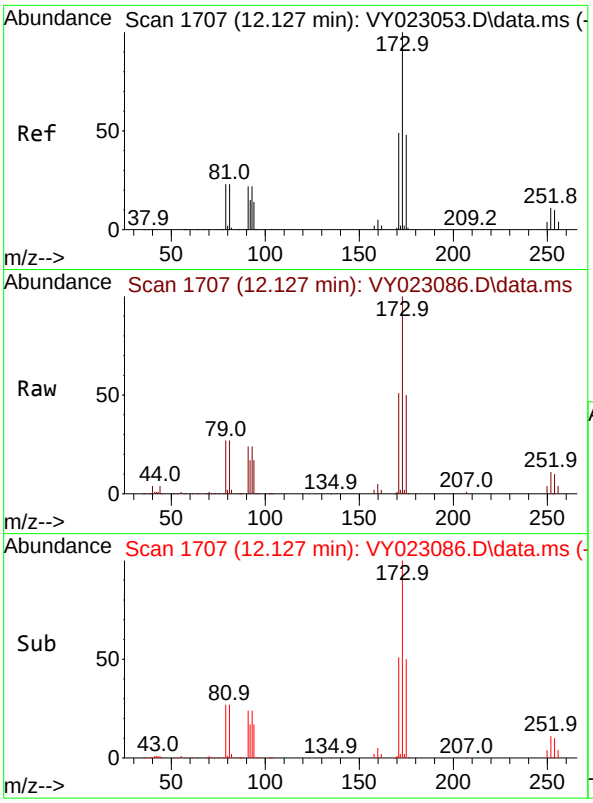


#70
Styrene
Concen: 19.209 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:104 Resp: 273749

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.5	57.7
103	55.5	43.7	65.5

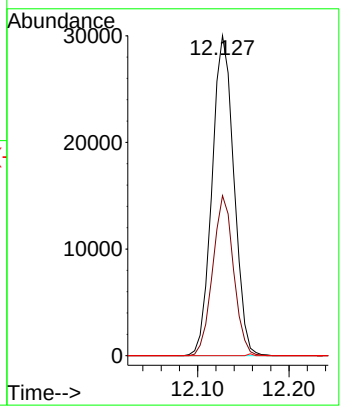




#71
Bromoform
Concen: 18.159 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:173 Resp: 4986

Ion	Ratio	Lower	Upper
173	100		
175	47.7	23.9	71.7
254	0.0	0.1	0.1



Instrument :
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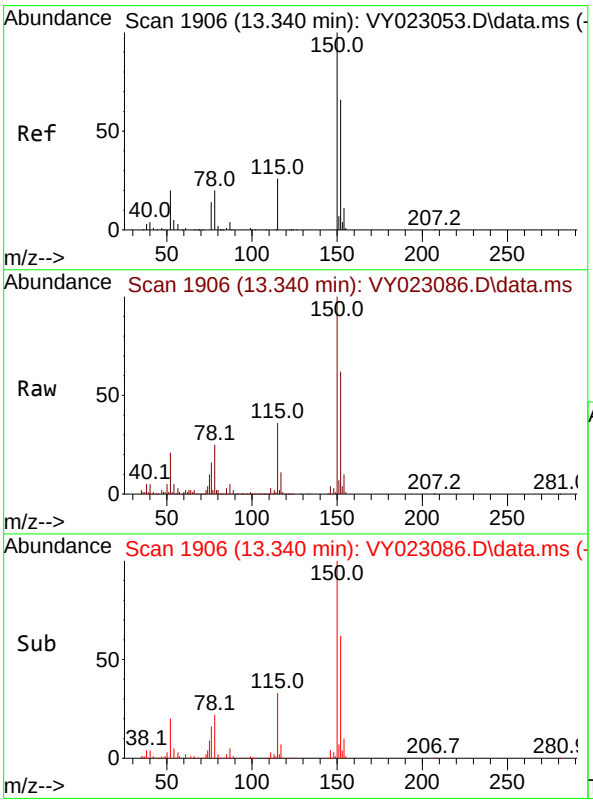
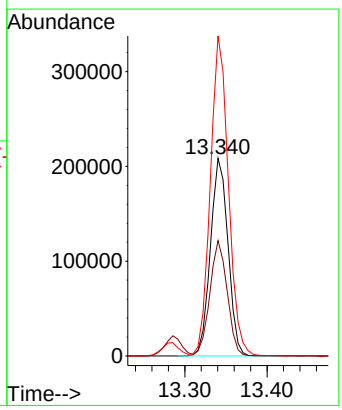
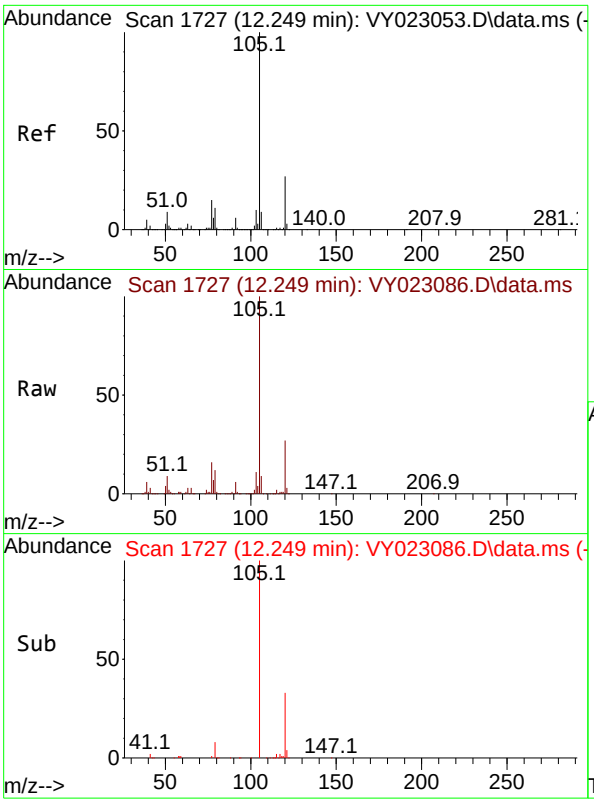


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:152 Resp: 309825

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.2	84.6
150	166.2	0.0	348.0

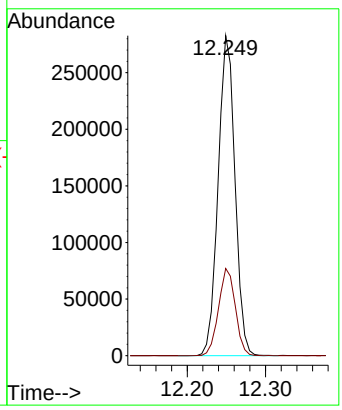




#73
Isopropylbenzene
Concen: 19.345 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 42302

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2



Instrument :
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ClientSampleId :
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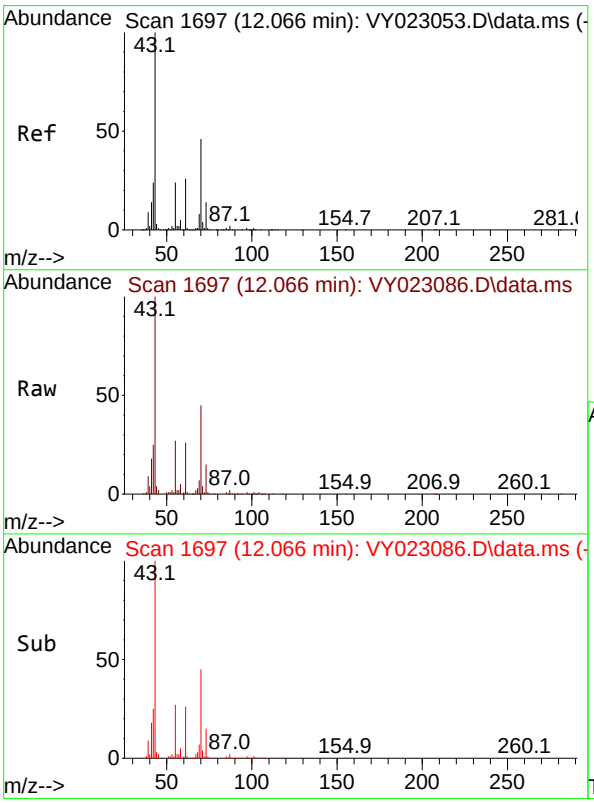
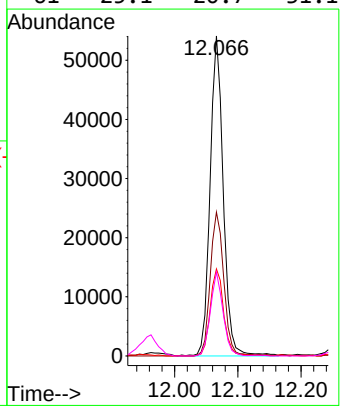
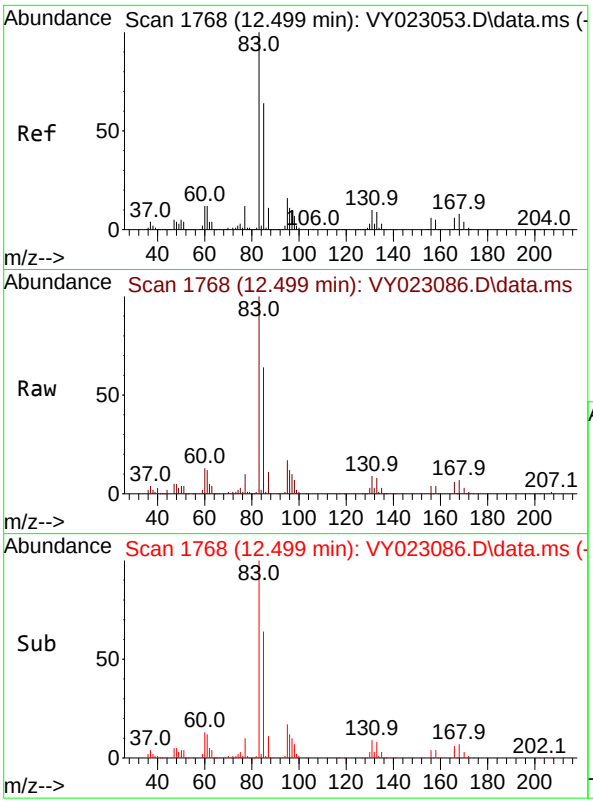


#74
N-amyl acetate
Concen: 16.952 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 78613

Ion	Ratio	Lower	Upper
43	100		
70	46.5	37.5	56.3
55	28.0	20.7	31.1
61	25.1	20.7	31.1





#75
1,1,2,2-Tetrachloroethane
Concen: 17.181 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 6415

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.3
85	68.5	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
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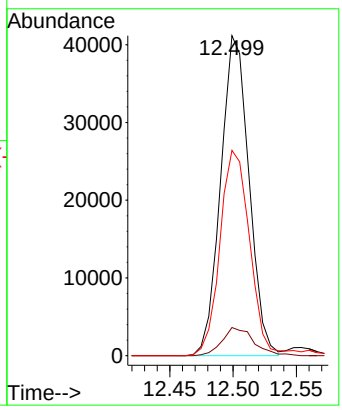
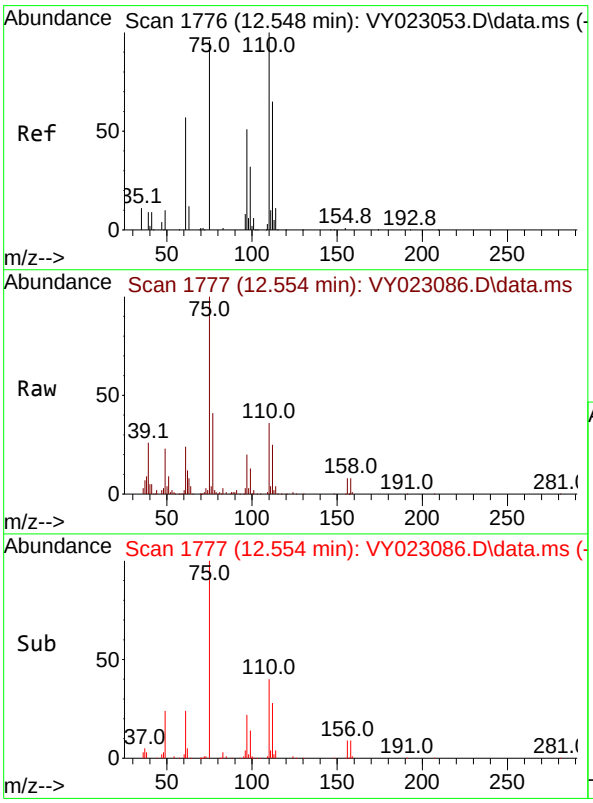
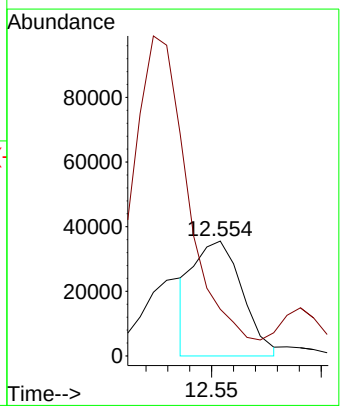


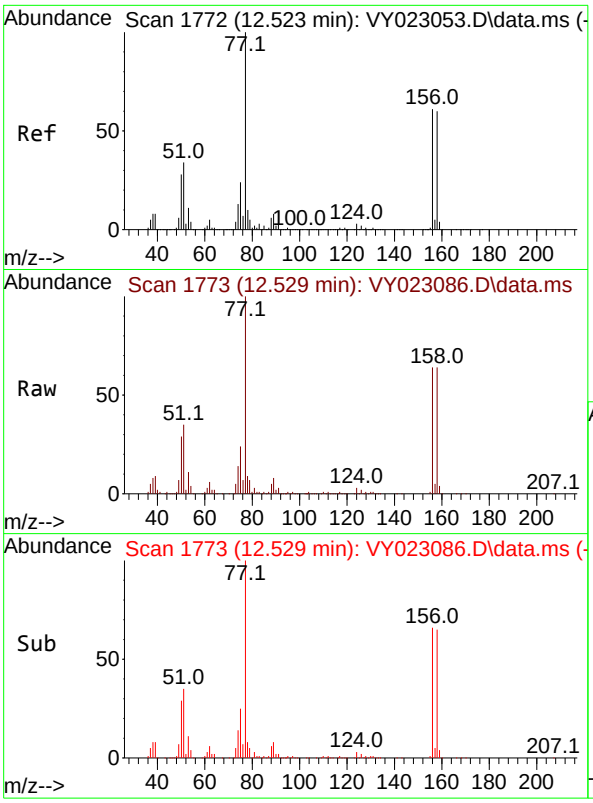


#76
1,2,3-Trichloropropane
Concen: 18.387 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 54979

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

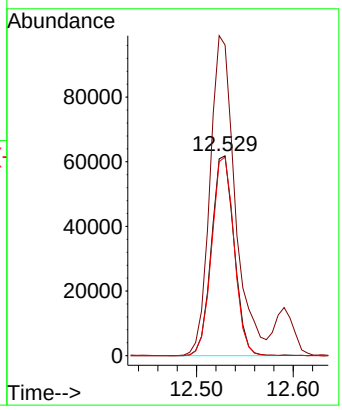




#77
Bromobenzene
Concen: 19.332 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:156 Resp: 10085

Ion	Ratio	Lower	Upper
156	100		
77	178.0	88.1	264.4
158	98.1	48.0	144.0



Instrument :
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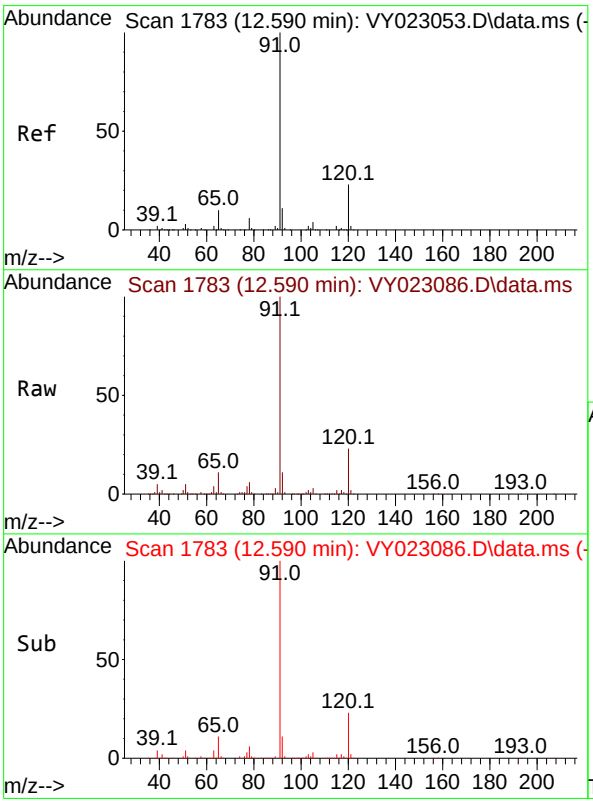
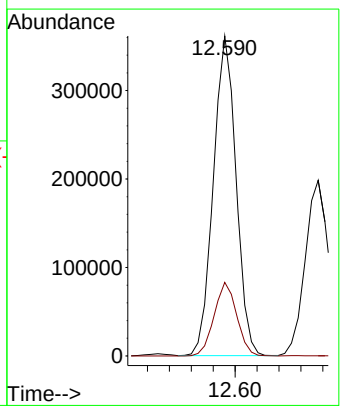
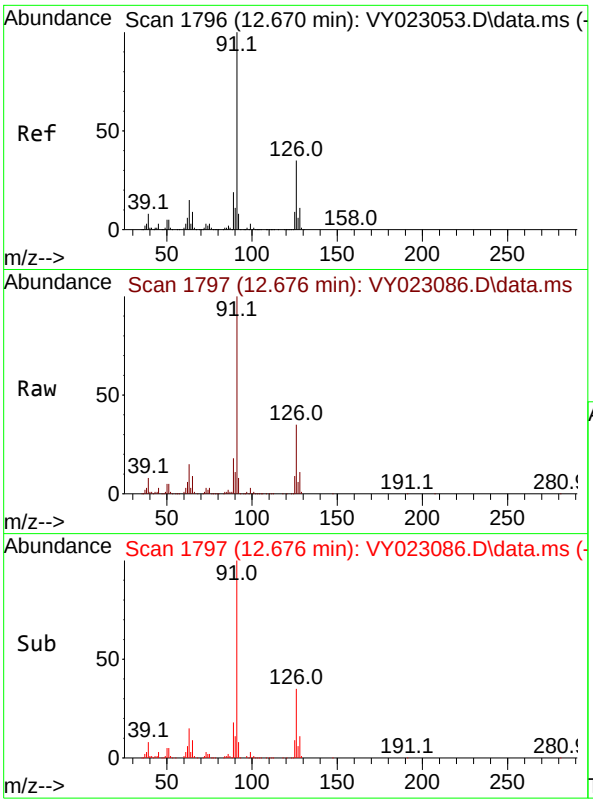


#78
n-propylbenzene
Concen: 20.001 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 520711

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5

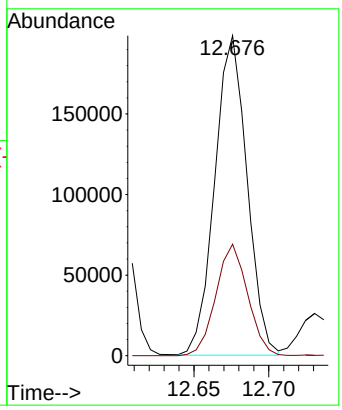




#79
2-Chlorotoluene
Concen: 19.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 29776

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.4	52.3



Instrument :
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ClientSampleId :
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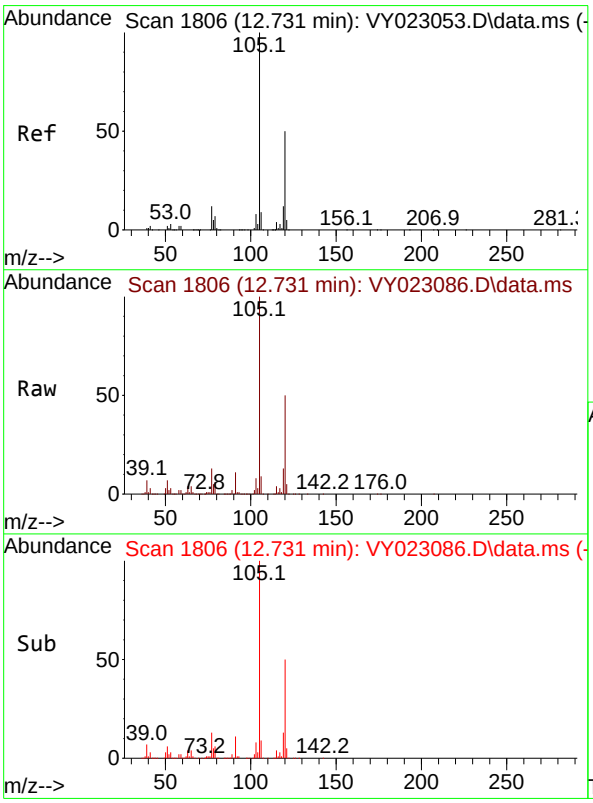
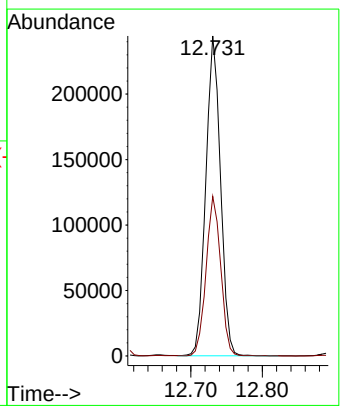
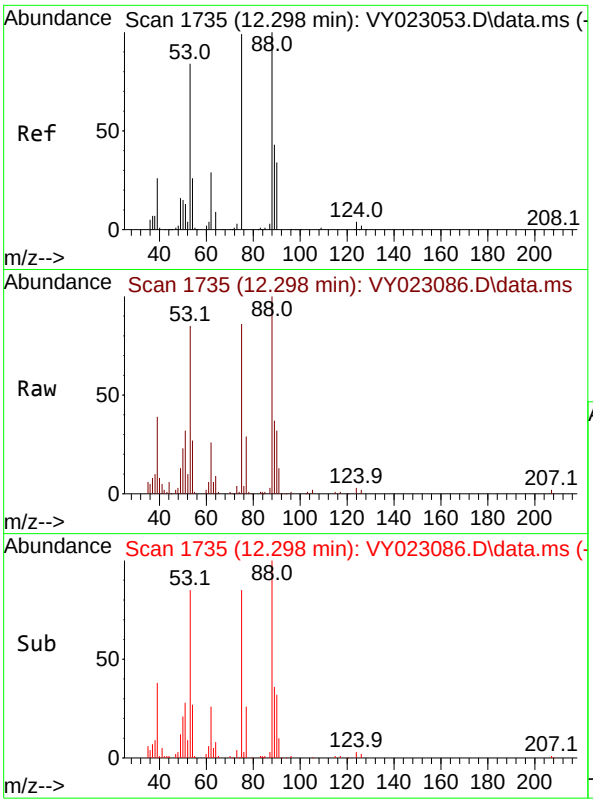


#80
1,3,5-Trimethylbenzene
Concen: 19.731 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 348710

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 17.398 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 2149

Ion	Ratio	Lower	Upper
75	100		
53	93.8	70.8	106.2
89	43.7	38.1	57.1

Instrument :
MSVOA_Y
ClientSampleId :
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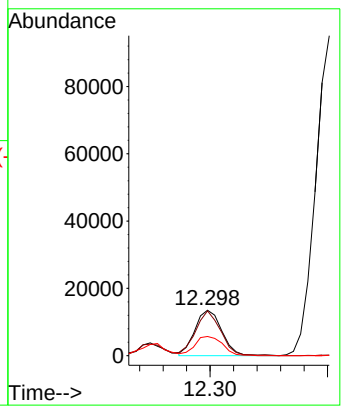
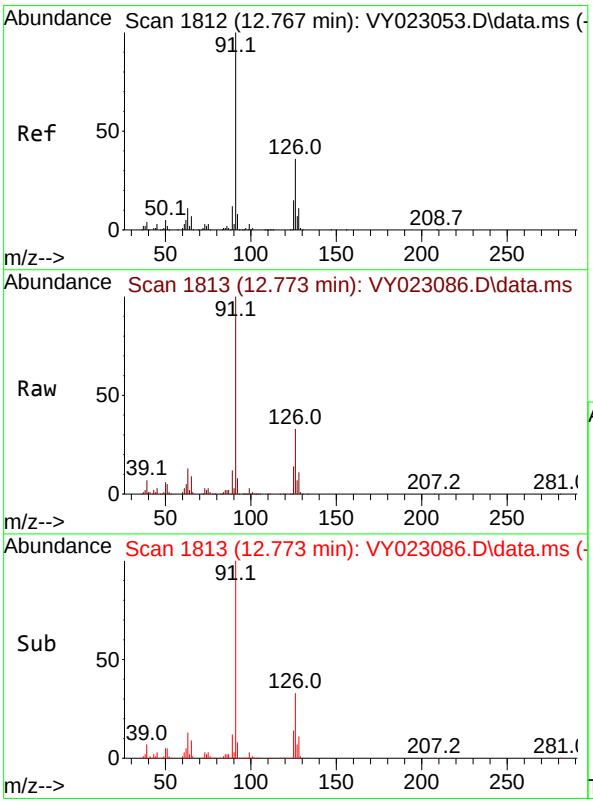
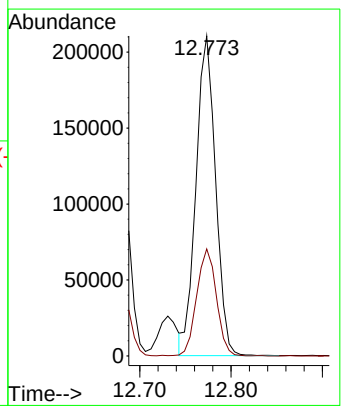


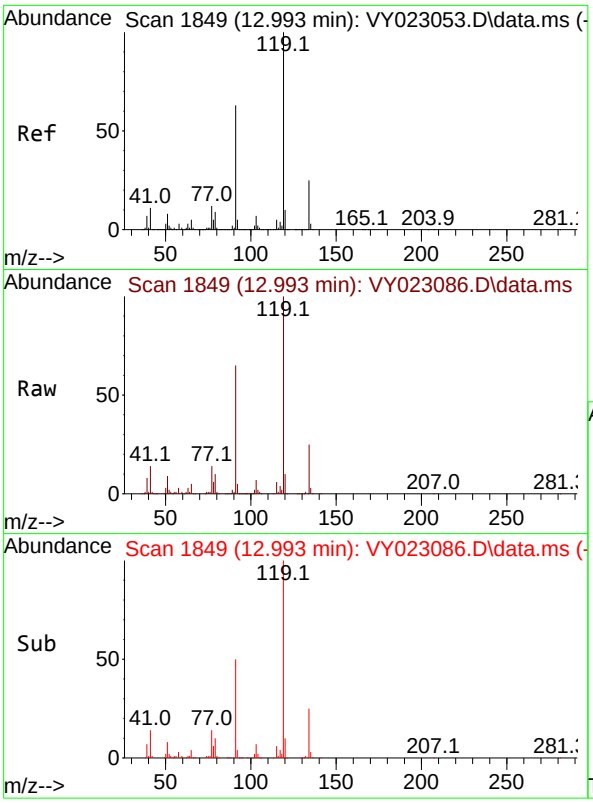


#82
4-Chlorotoluene
Concen: 20.205 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 312655

Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.3	52.0

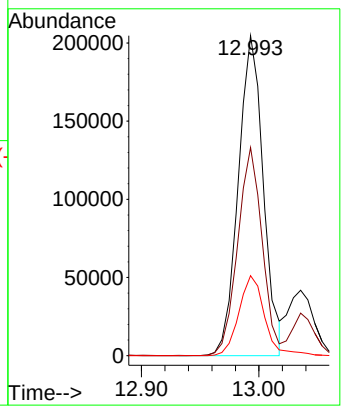




#83
tert-Butylbenzene
Concen: 18.997 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:119 Resp: 30322

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.6	94.8
134	25.8	12.9	38.7



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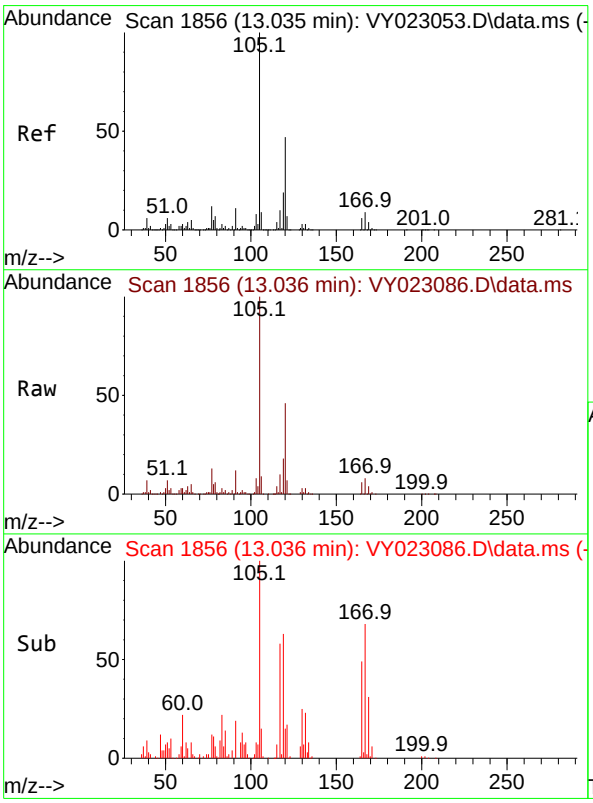
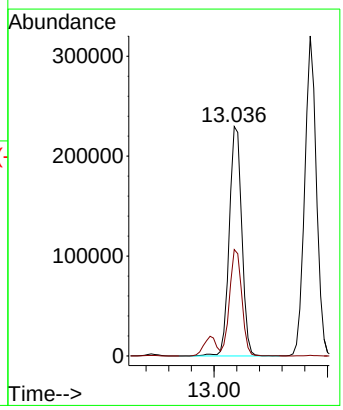
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

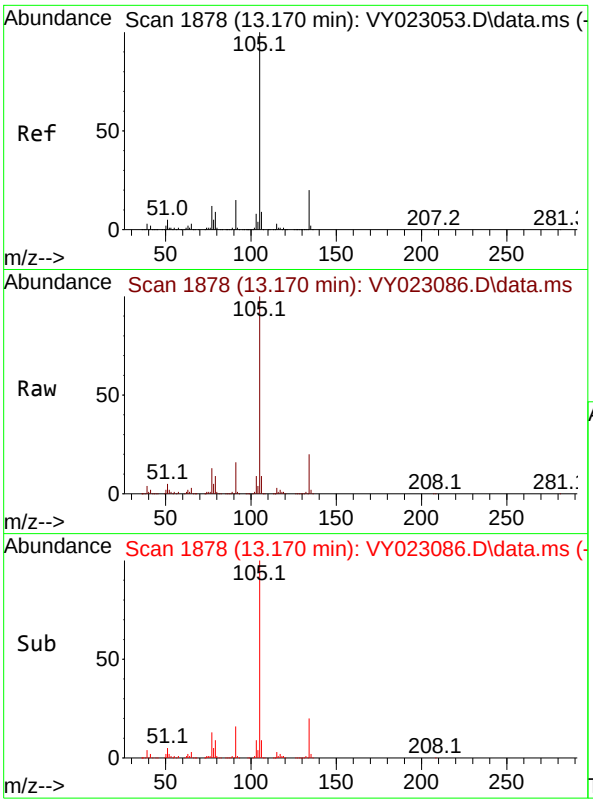


#84
1,2,4-Trimethylbenzene
Concen: 19.952 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 351003

Ion	Ratio	Lower	Upper
105	100		
120	45.2	23.0	69.0

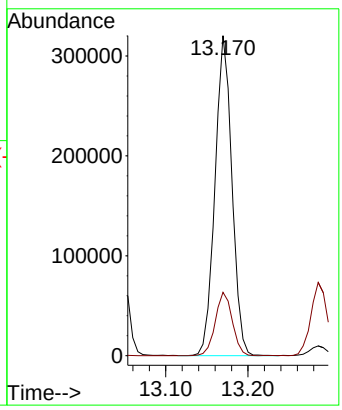




#85
sec-Butylbenzene
Concen: 19.534 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 45802

Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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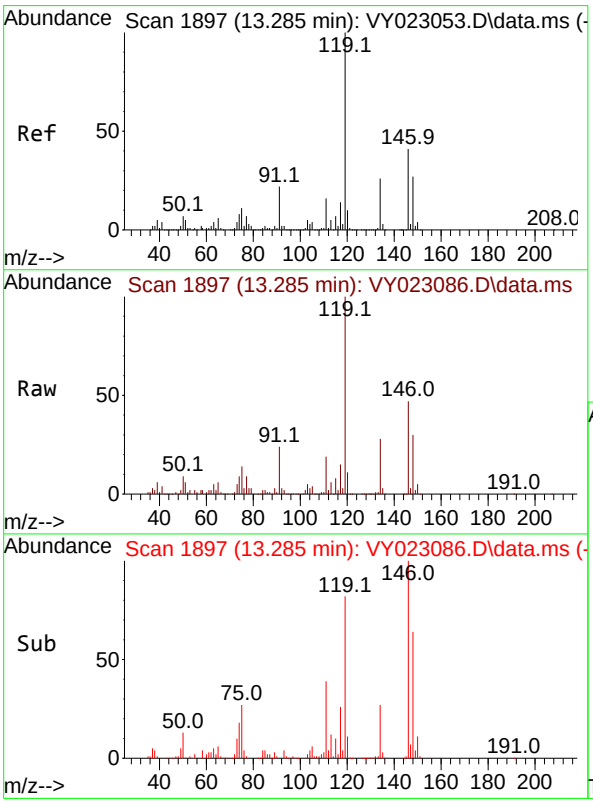
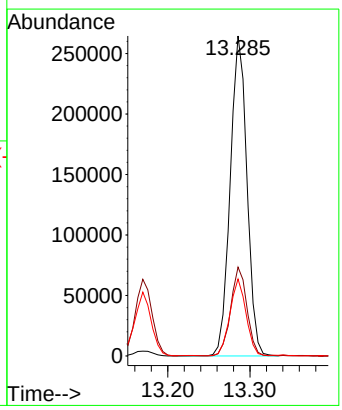
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

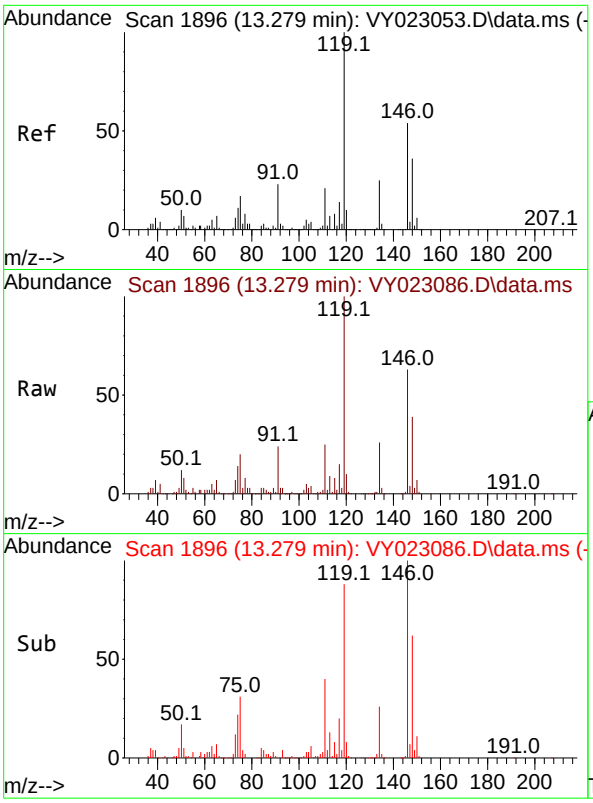


#86
p-Isopropyltoluene
Concen: 19.240 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:119 Resp: 374466

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.2	39.6
91	23.1	11.3	33.8

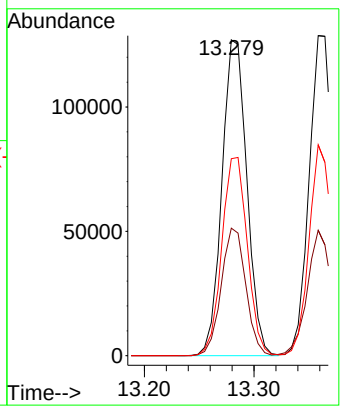




#87
1,3-Dichlorobenzene
Concen: 19.525 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 20086

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.6	58.7
148	64.2	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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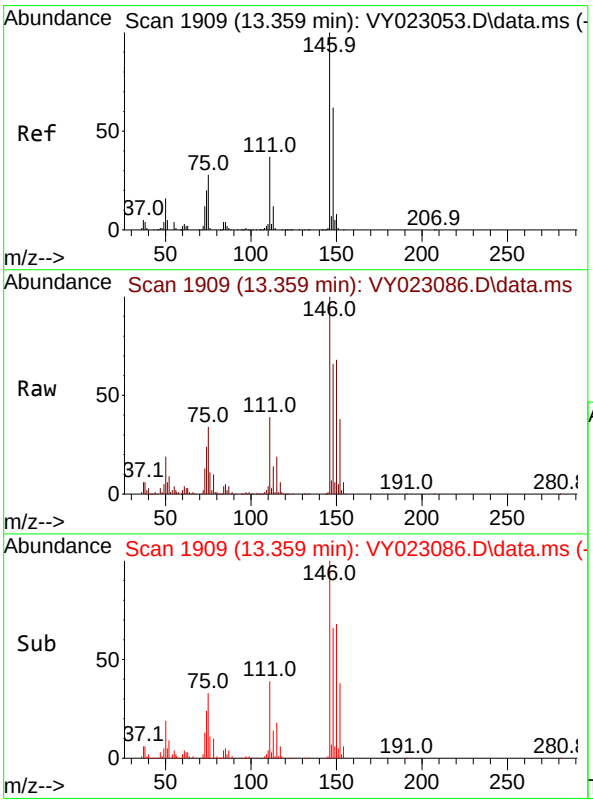
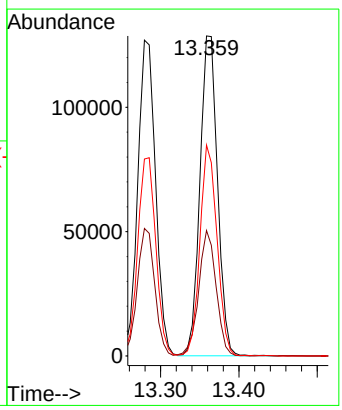
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

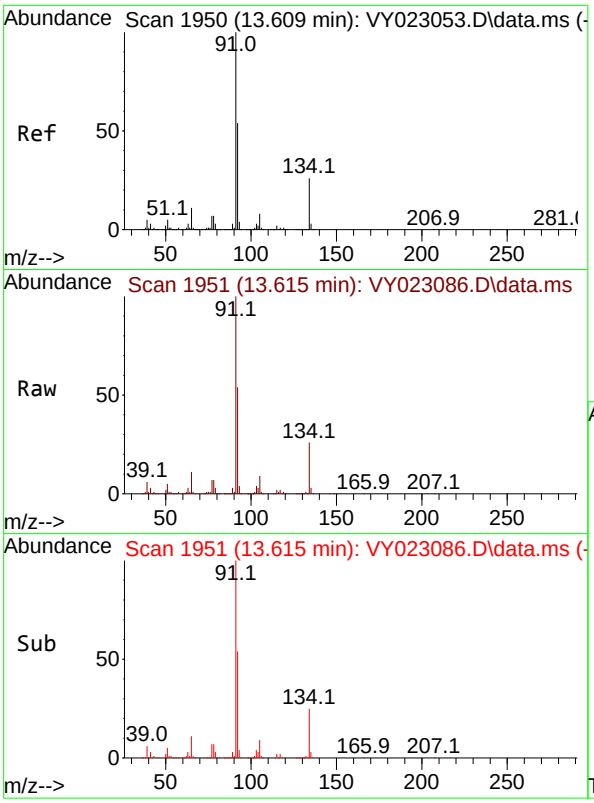


#88
1,4-Dichlorobenzene
Concen: 19.626 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 200293

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.1	57.1
148	64.3	31.6	94.7

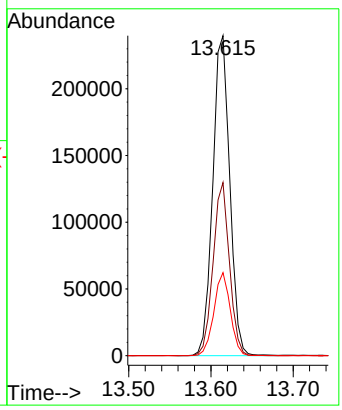




#89
n-Butylbenzene
Concen: 19.289 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 34479

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.7
134	25.1	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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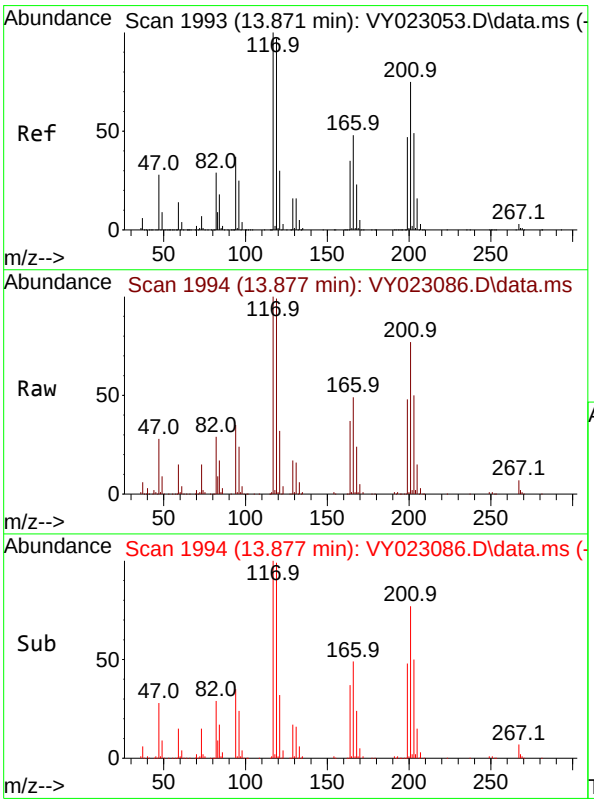
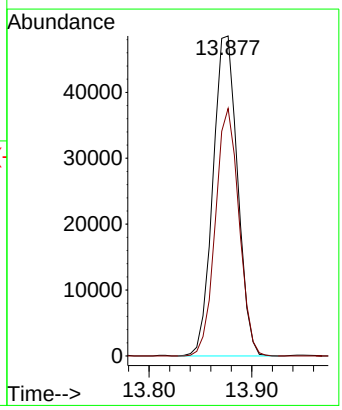
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

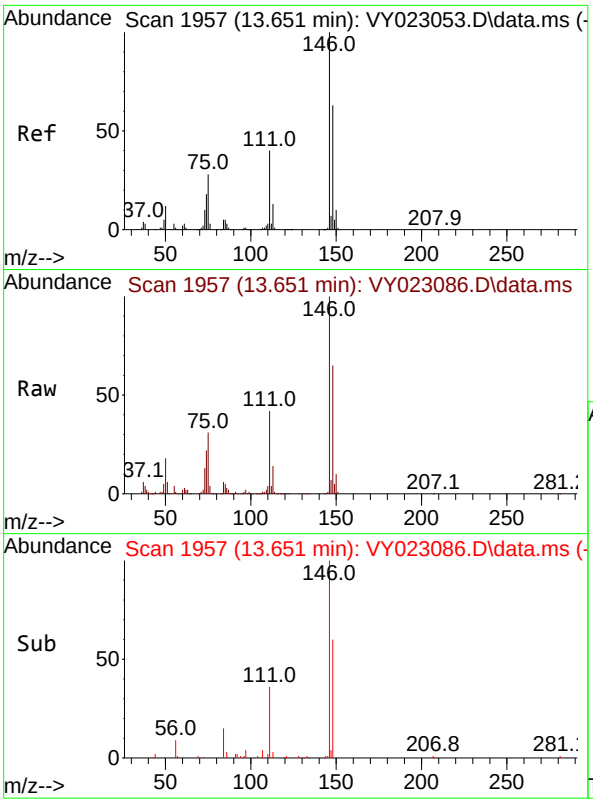


#90
Hexachloroethane
Concen: 20.252 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 80689

Ion	Ratio	Lower	Upper
117	100		
201	74.1	38.4	115.1

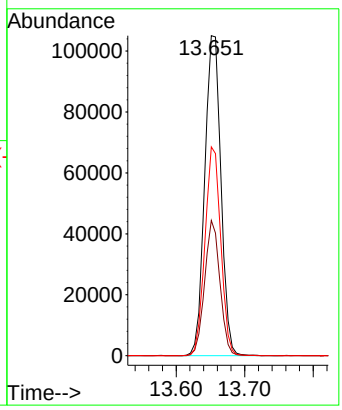




#91
1,2-Dichlorobenzene
Concen: 19.158 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 17285

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.3	60.8
148	63.6	32.2	96.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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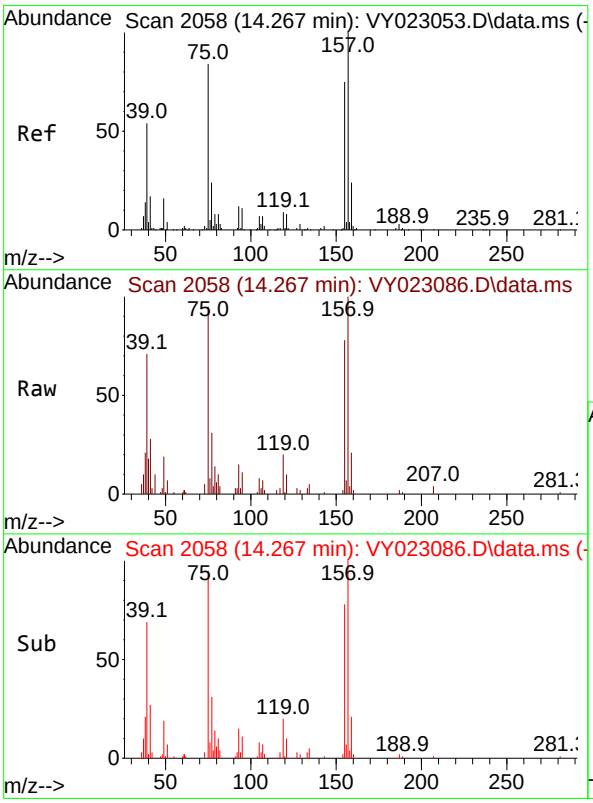
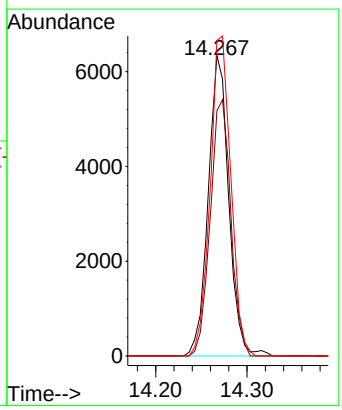
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

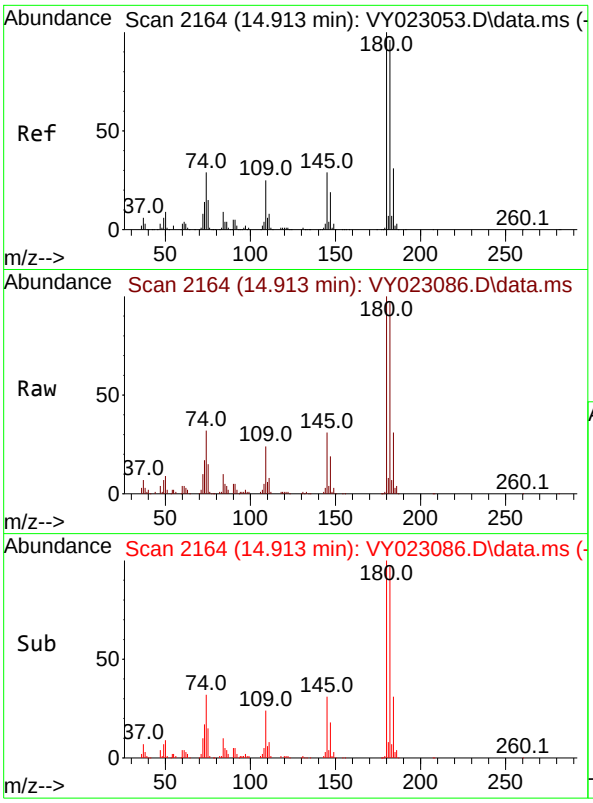


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 9872

Ion	Ratio	Lower	Upper
75	100		
155	85.7	43.9	131.6
157	107.5	57.2	171.6

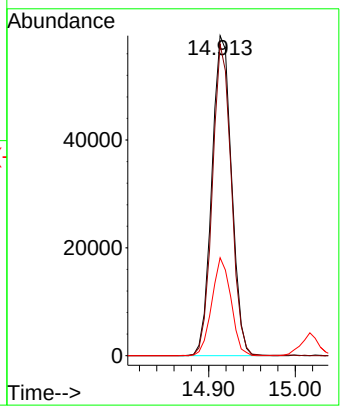




#93
1,2,4-Trichlorobenzene
Concen: 17.602 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:180 Resp: 9391

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.8	140.4
145	29.7	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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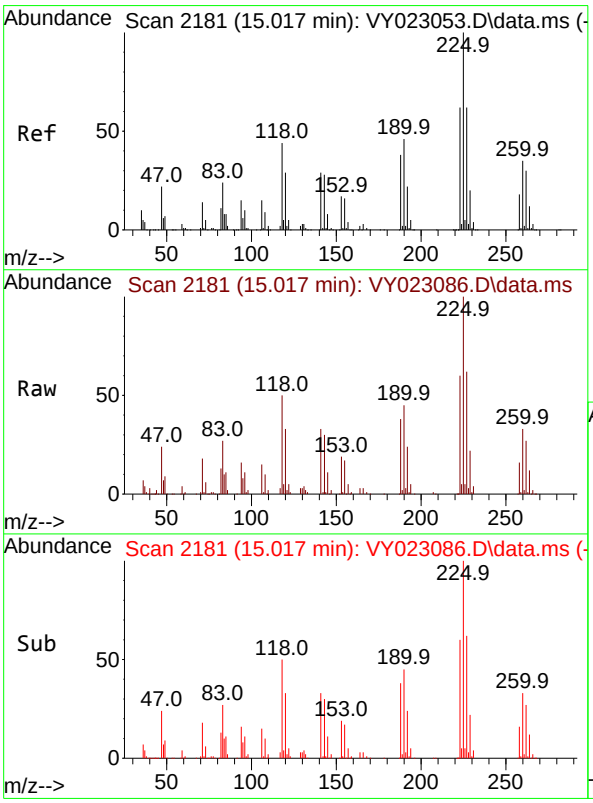
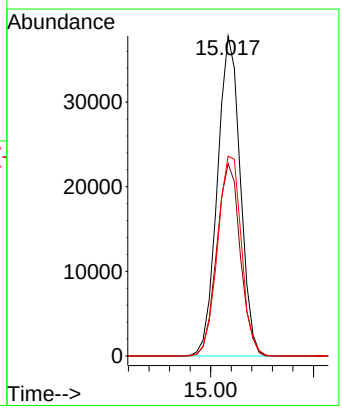
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

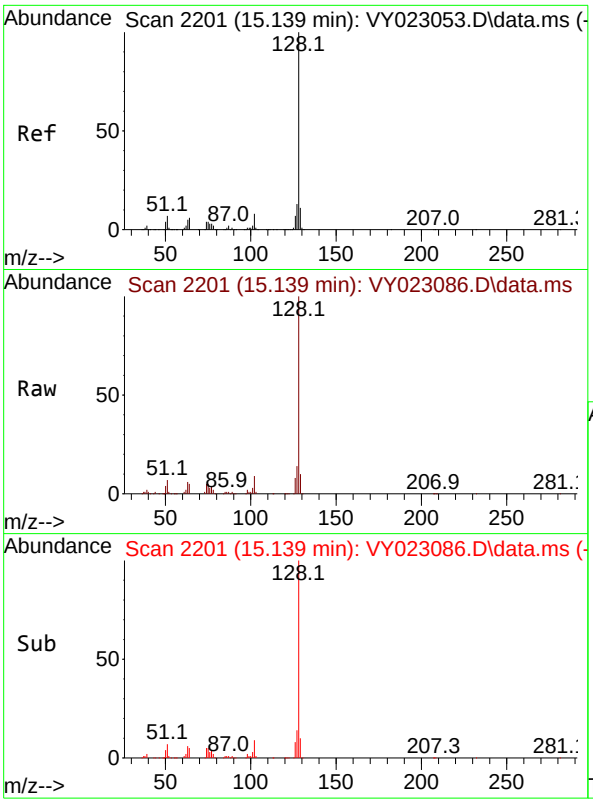


#94
Hexachlorobutadiene
Concen: 18.595 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:225 Resp: 58299

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.3	93.8
227	65.2	31.5	94.5

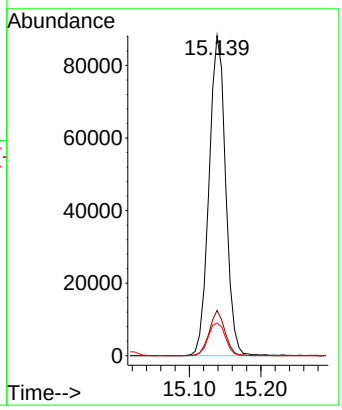




#95
Naphthalene
Concen: 15.638 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:128 Resp: 14227

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.7	9.0	13.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

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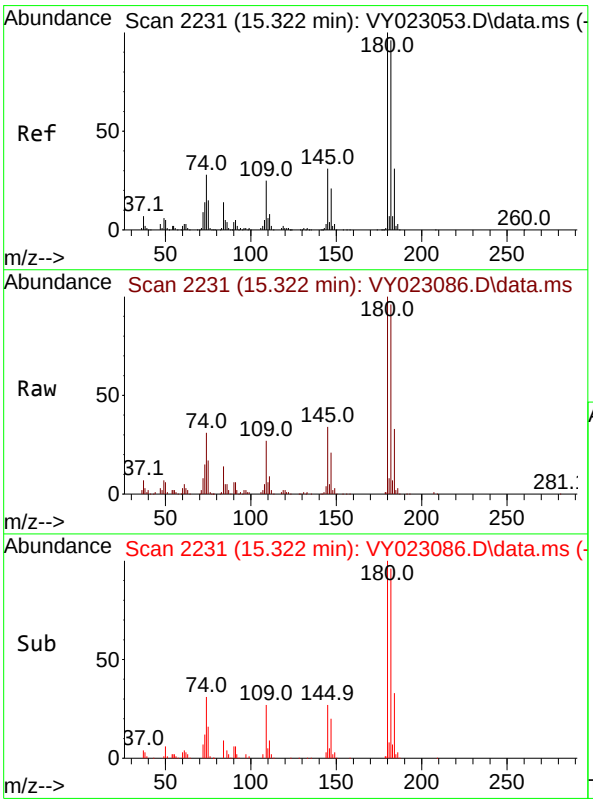
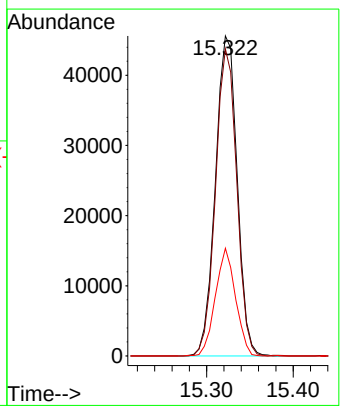
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.308 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:180 Resp: 79576

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.9	143.7
145	31.2	15.9	47.7



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.:	Q2819
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

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VY0819SBS01	SDG No.:	Q2819
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.:	Q2819
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

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)

(#) = 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

Manual Integrations APPROVED

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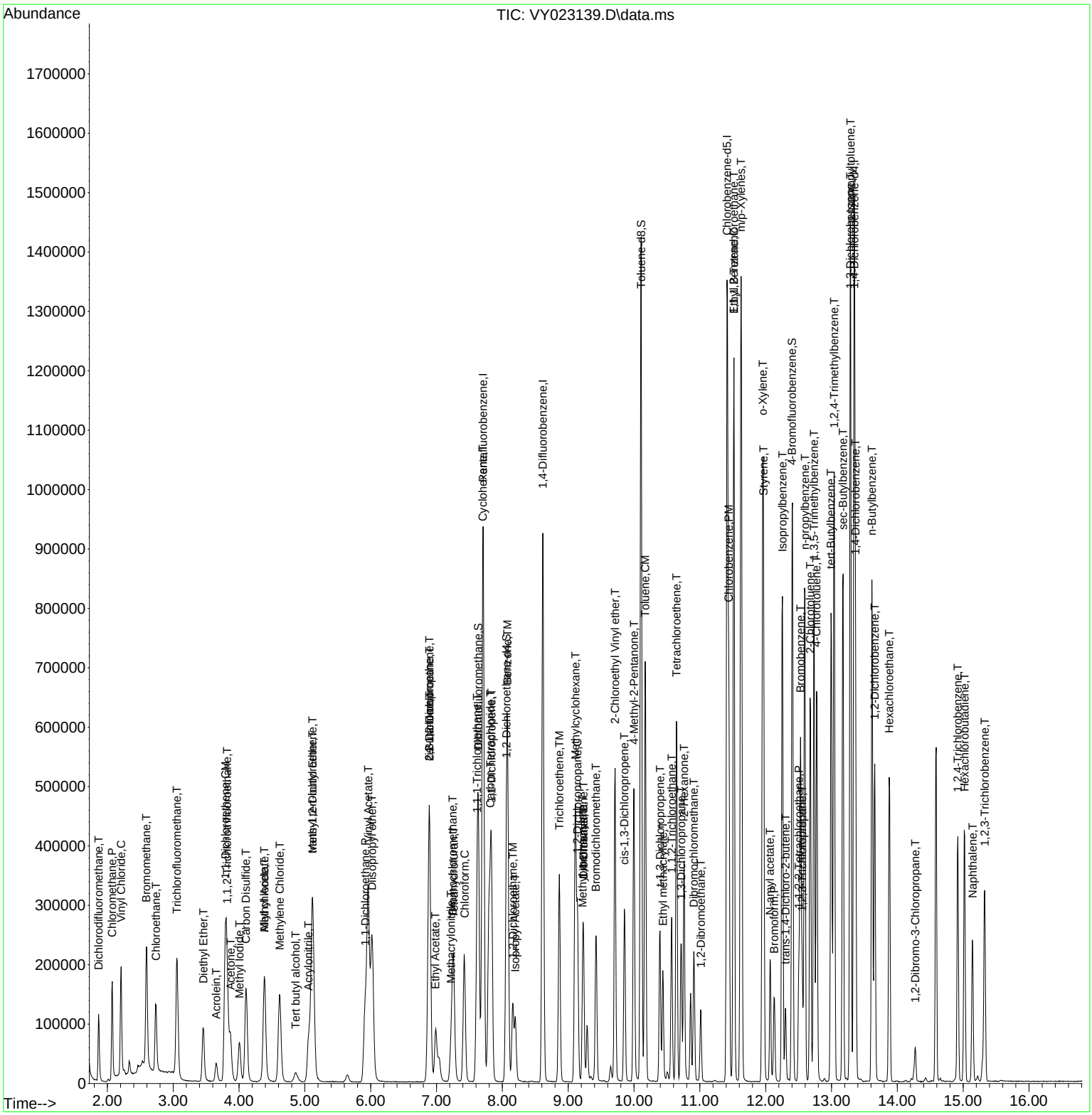
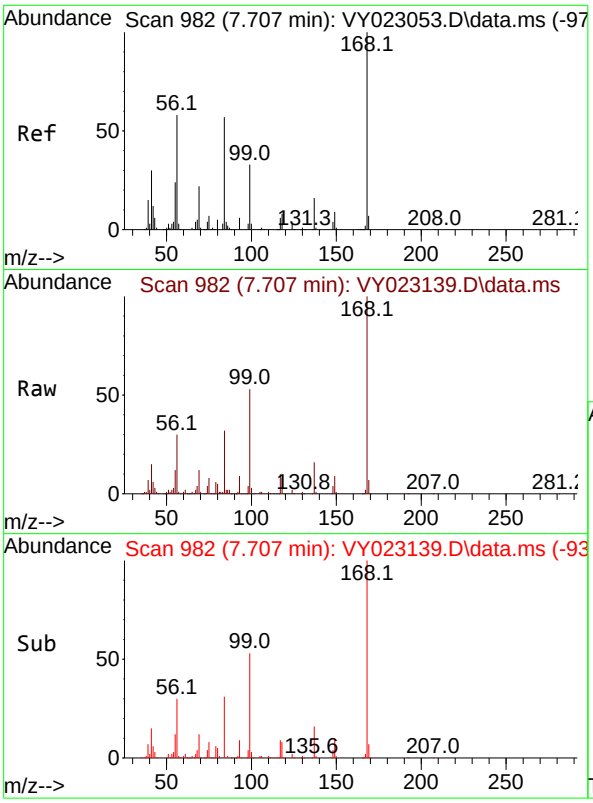
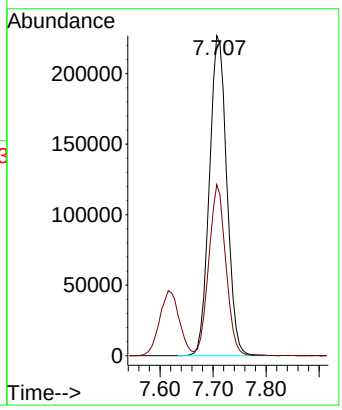




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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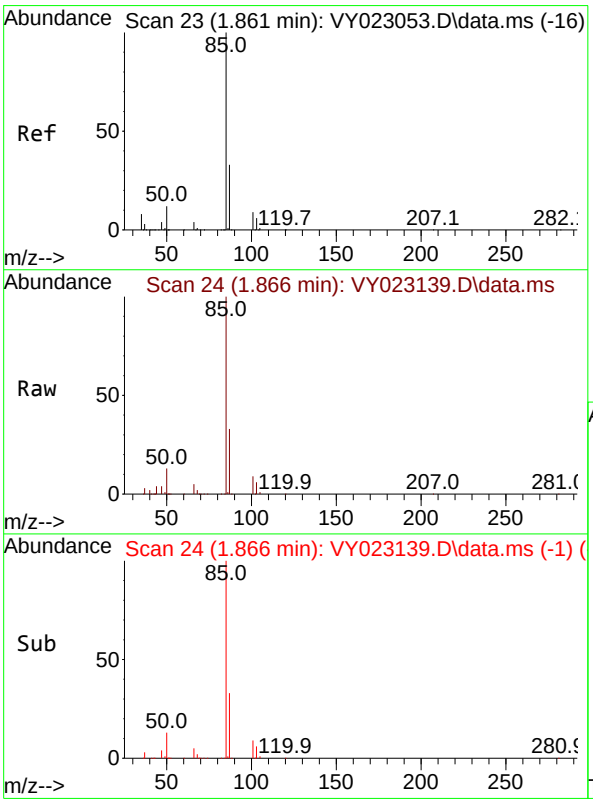
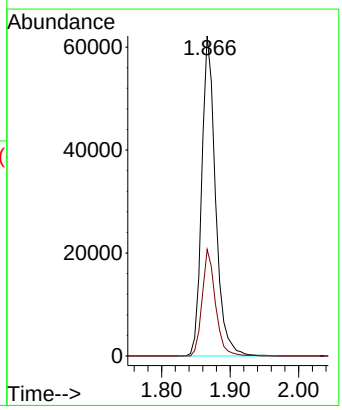
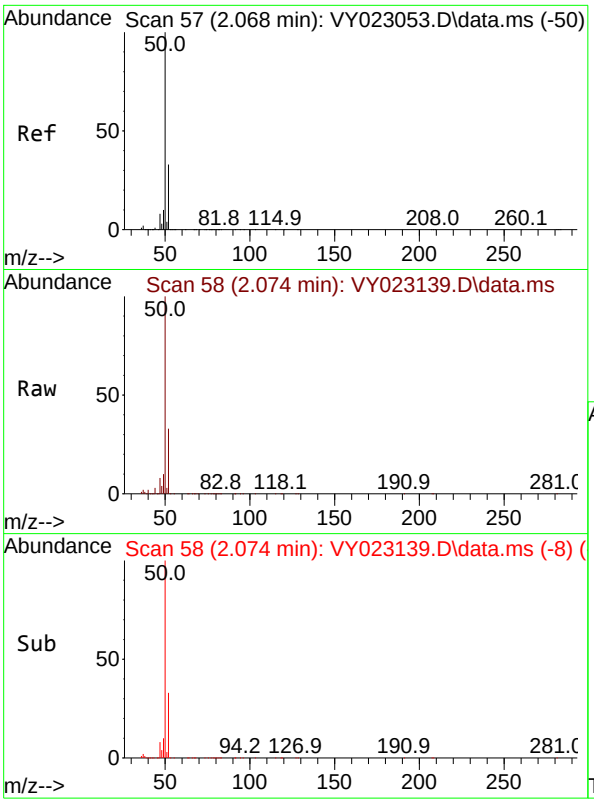


#2
Dichlorodifluoromethane
Concen: 20.661 ug/l
RT: 1.866 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 85 Resp: 87281

Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.6	49.8

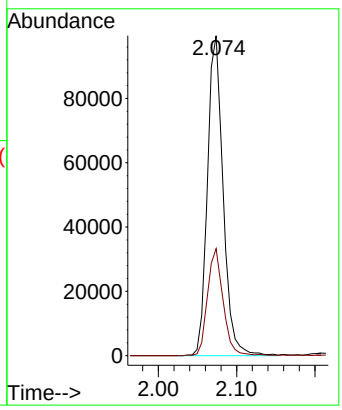




#3
Chloromethane
Concen: 20.171 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 50 Resp: 13801

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.7	40.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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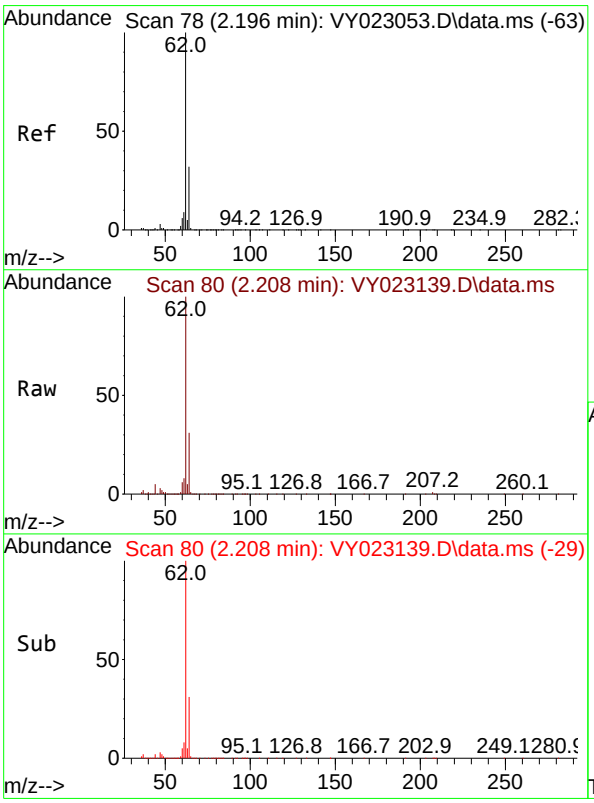
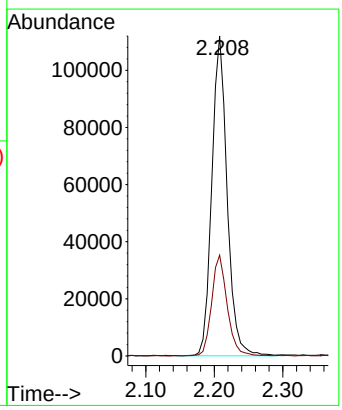
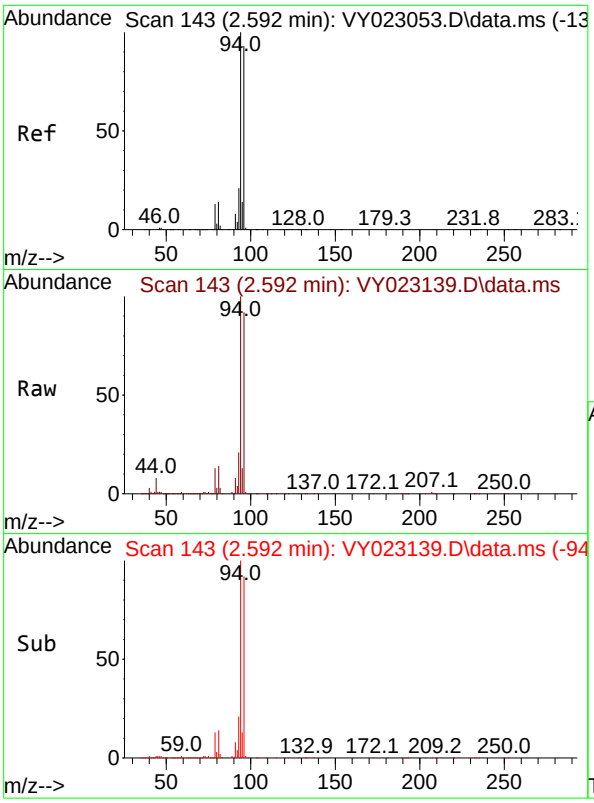


#4
Vinyl Chloride
Concen: 20.552 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 173827

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.4	38.0

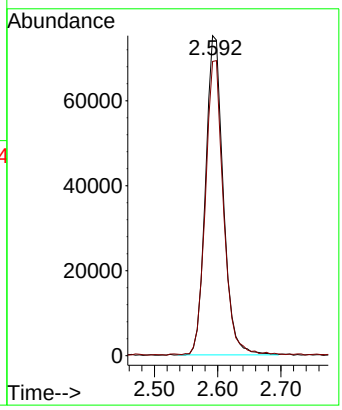




#5
Bromomethane
Concen: 23.152 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 94 Resp: 14624

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.6	112.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
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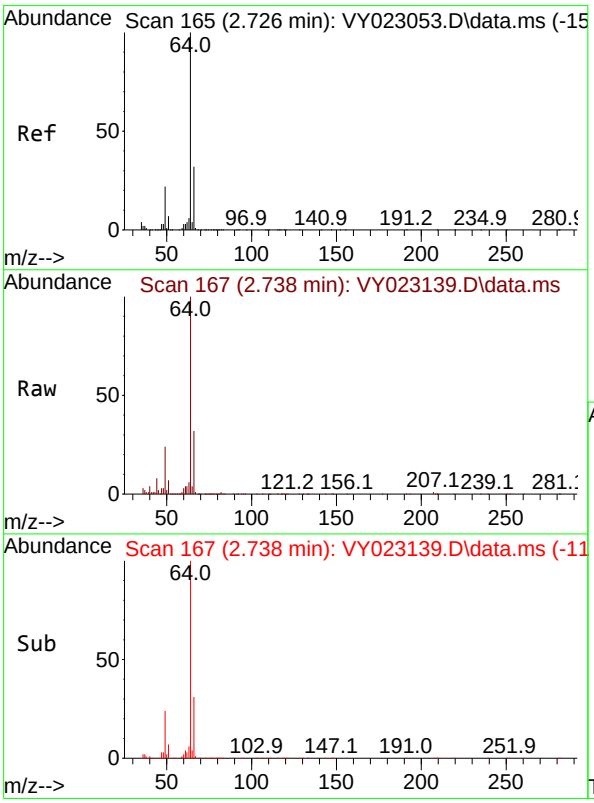
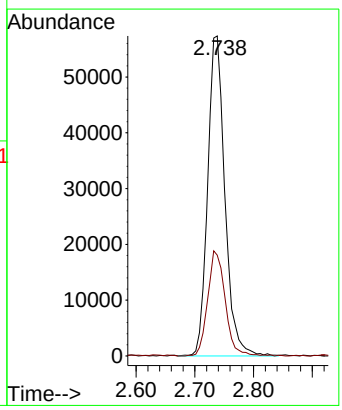
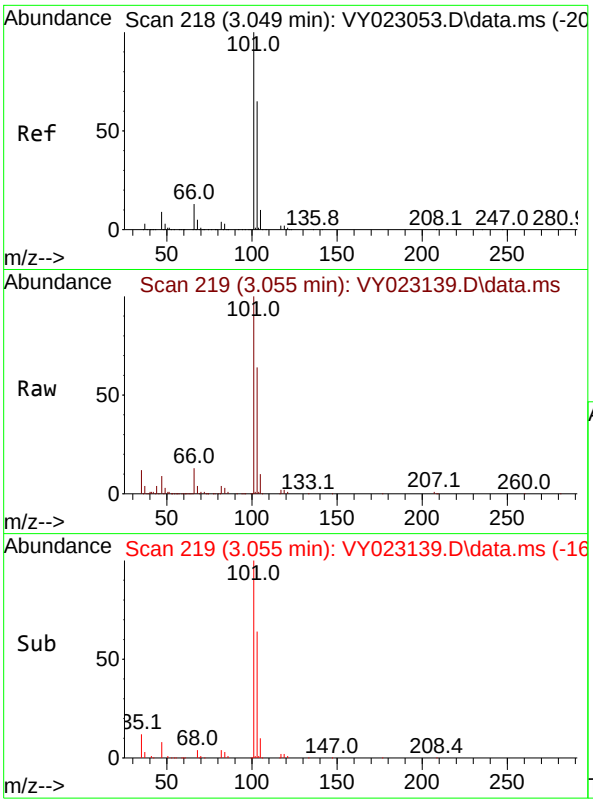


#6
Chloroethane
Concen: 20.757 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 64 Resp: 116717

Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.8	38.6

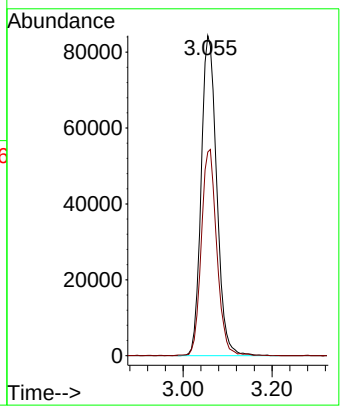




#7
Trichlorofluoromethane
Concen: 19.958 ug/l
RT: 3.055 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:101 Resp: 20525

Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.9	77.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
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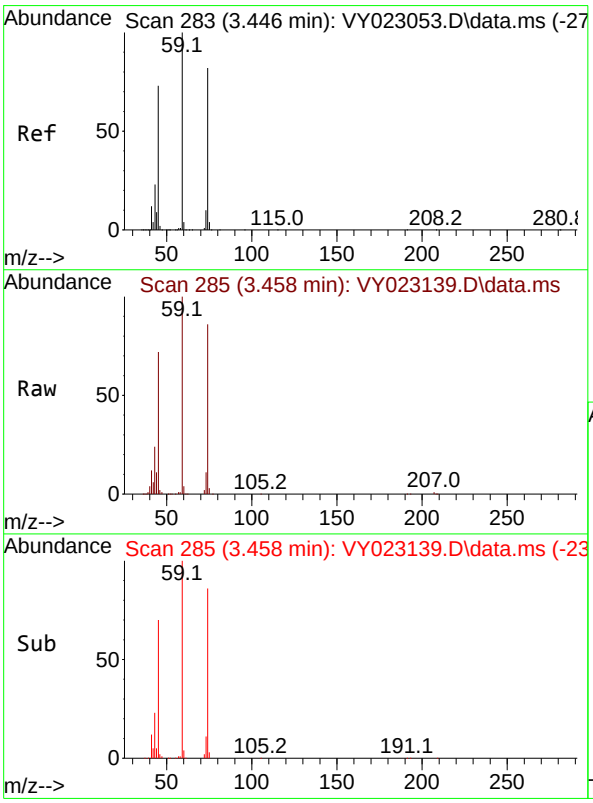
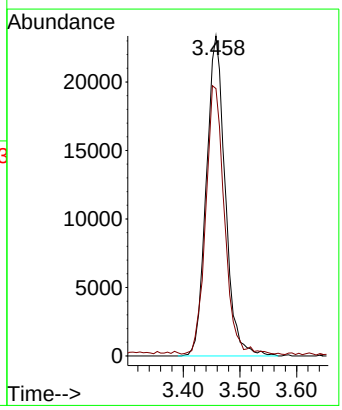
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

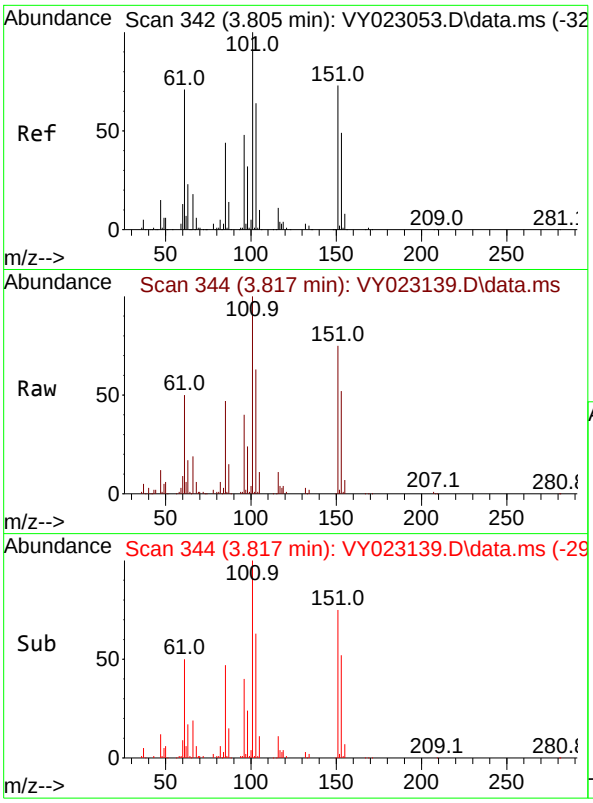


#8
Diethyl Ether
Concen: 19.862 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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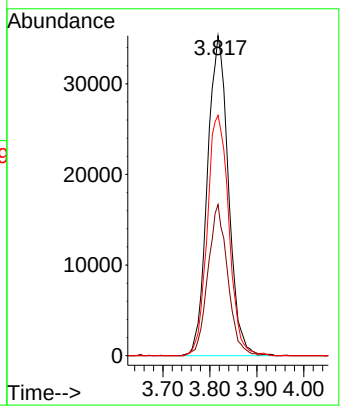
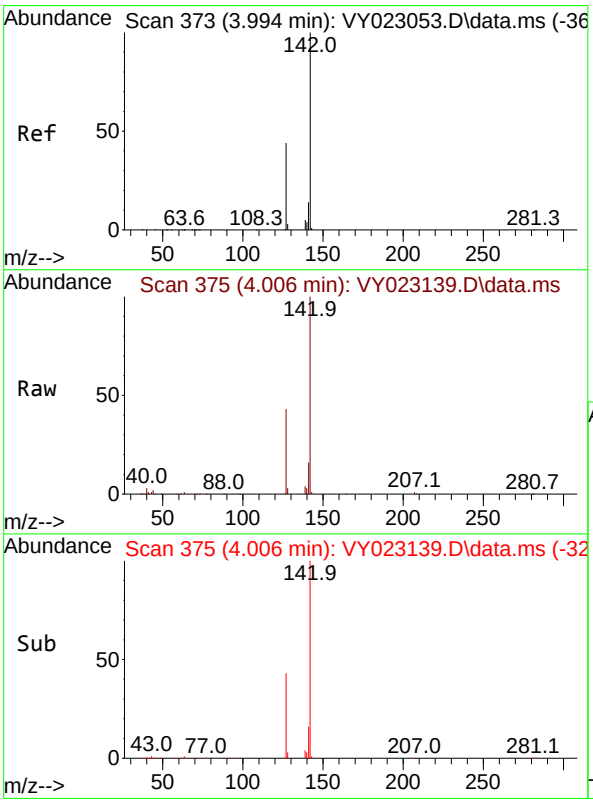
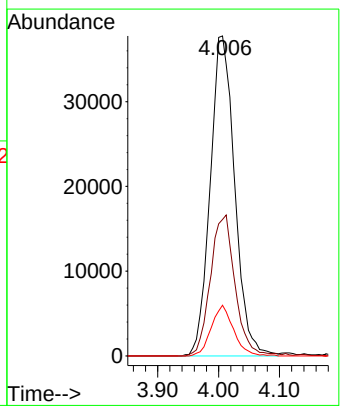


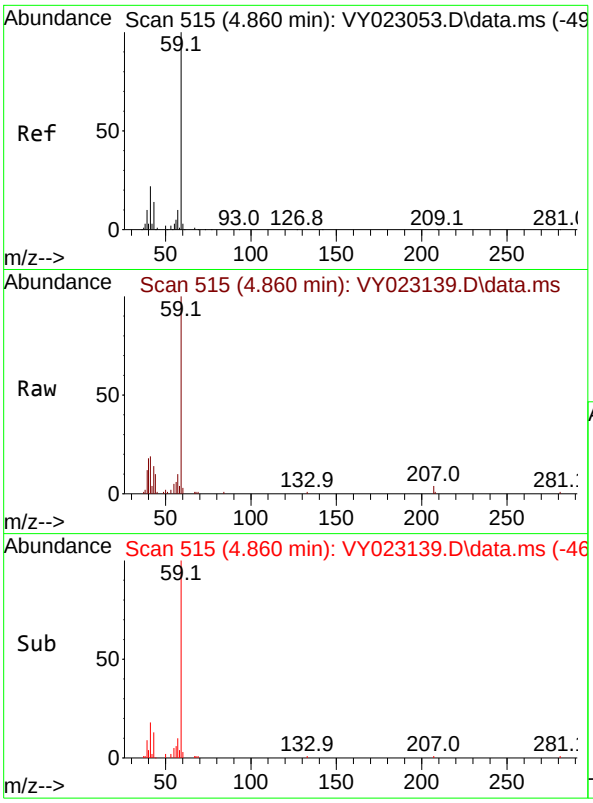


#10
Methyl Iodide
Concen: 19.260 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

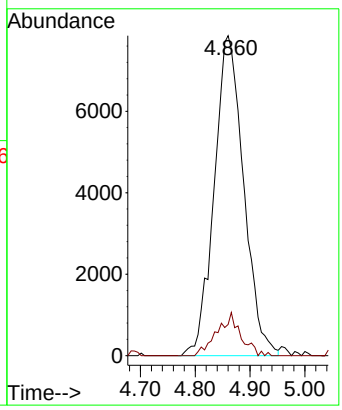




#11
Tert butyl alcohol
Concen: 86.885 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 59 Resp: 2936

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0



Instrument :
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ClientSampleId :
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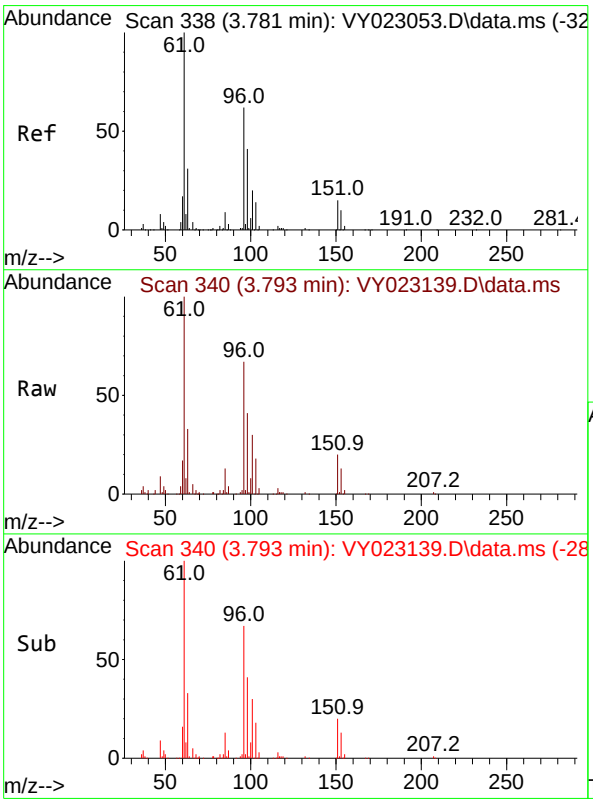
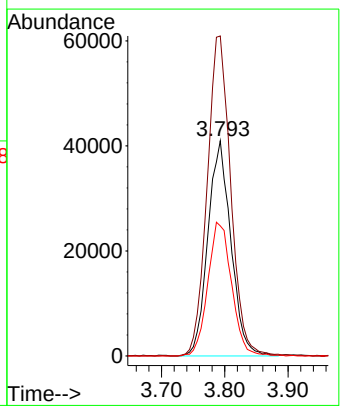
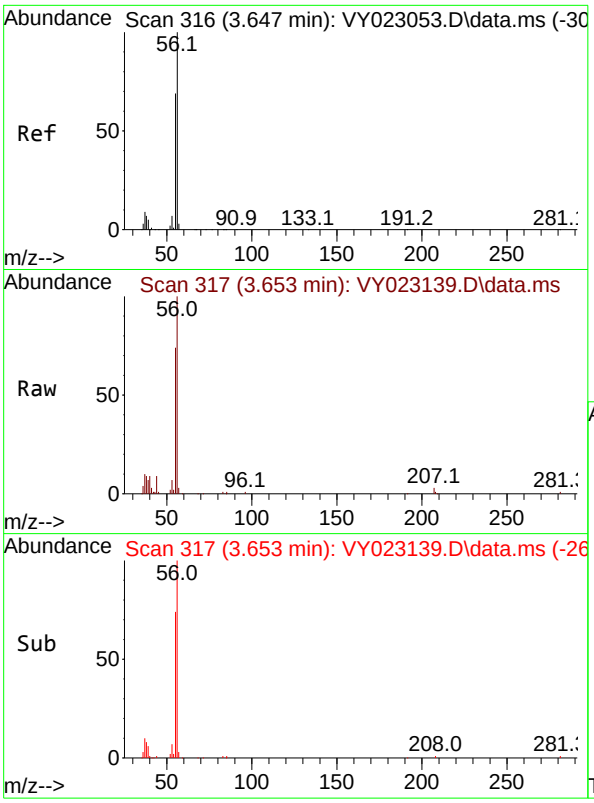


#12
1,1-Dichloroethene
Concen: 20.804 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

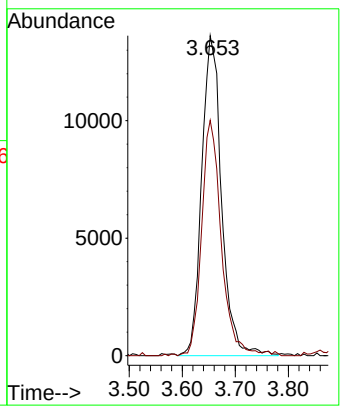




#13
Acrolein
Concen: 71.706 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 56 Resp: 3549

Ion	Ratio	Lower	Upper
56	100		
55	72.0	55.2	82.8



Instrument :
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ClientSampleId :
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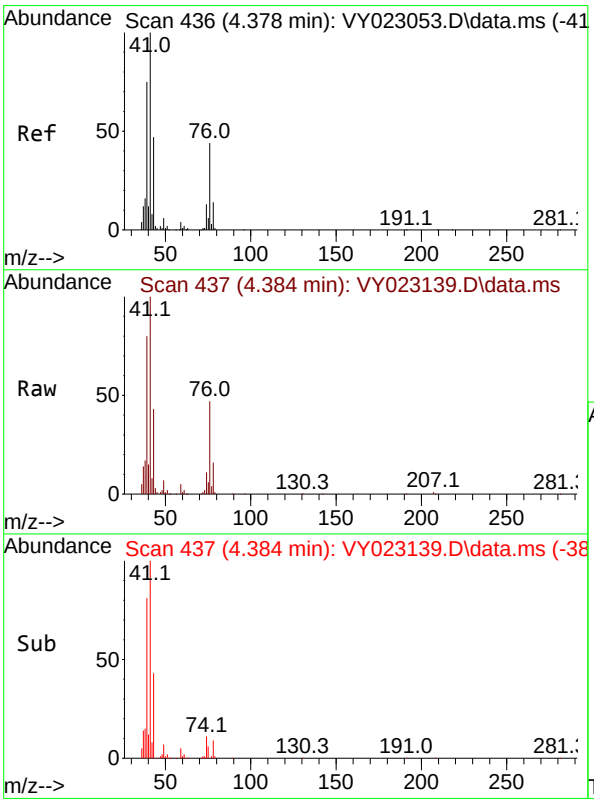
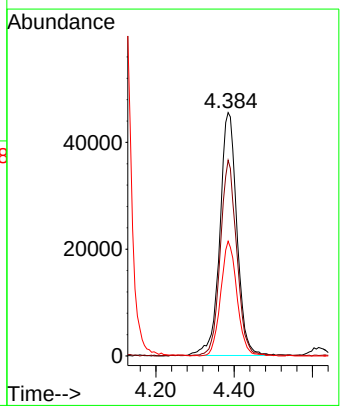
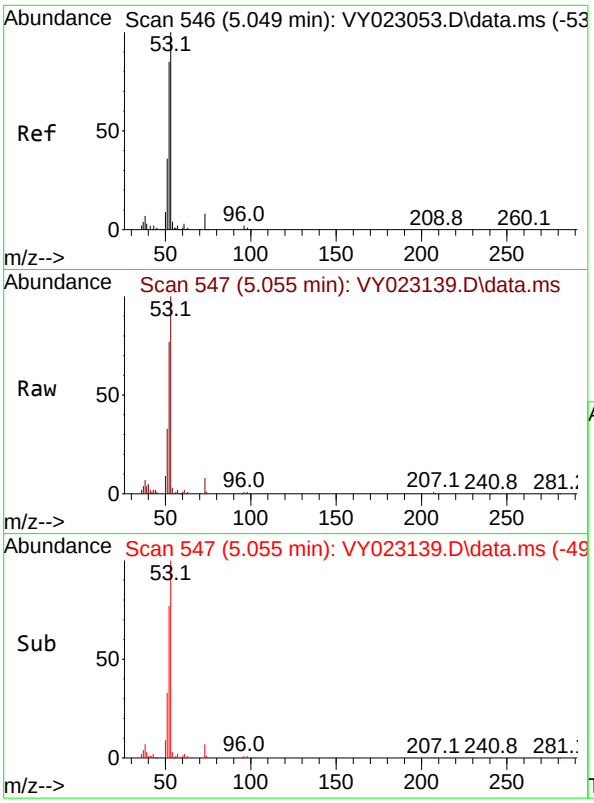


#14
Allyl chloride
Concen: 18.846 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

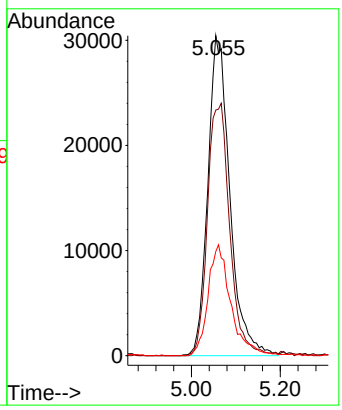




#15
Acrylonitrile
Concen: 94.488 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
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ClientSampleId :
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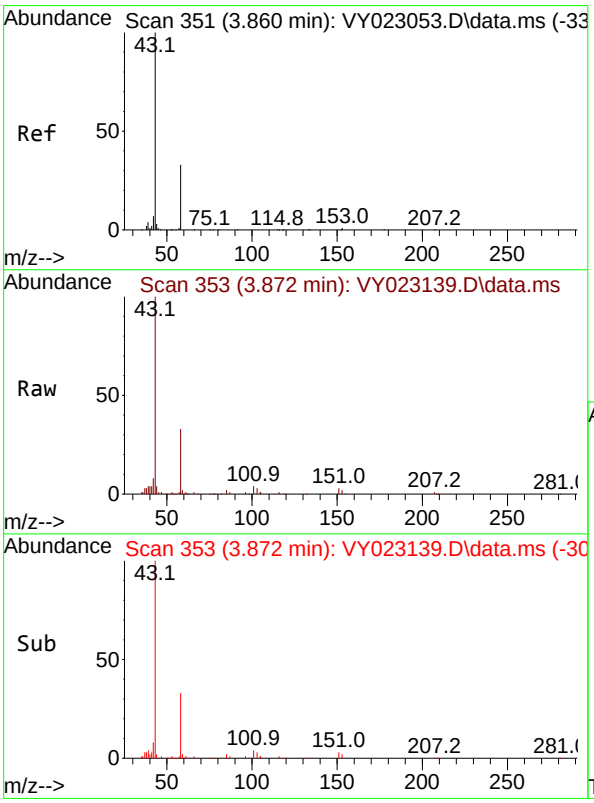
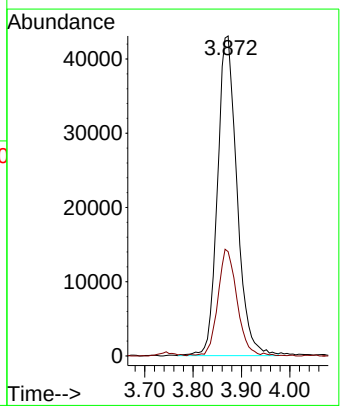
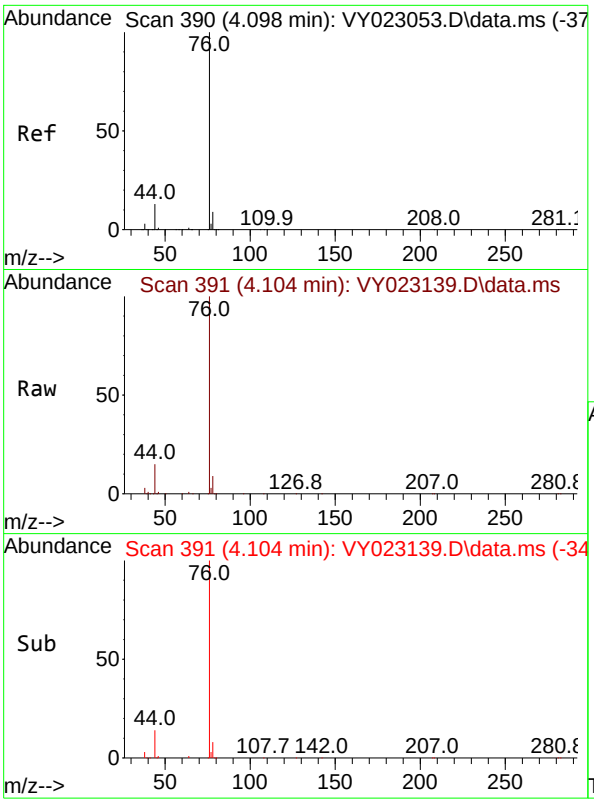


#16
Acetone
Concen: 112.685 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 120414

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.1	40.7

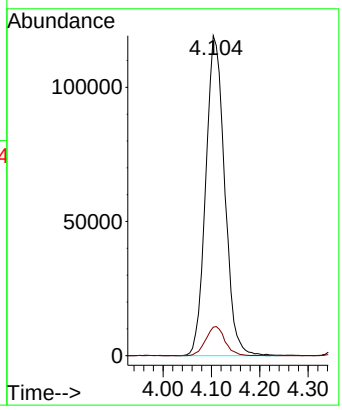




#17
Carbon Disulfide
Concen: 19.905 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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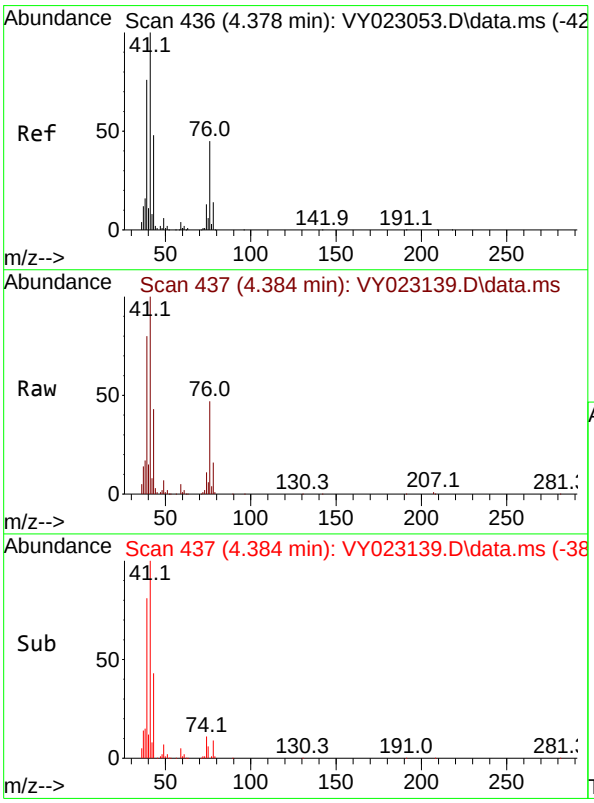
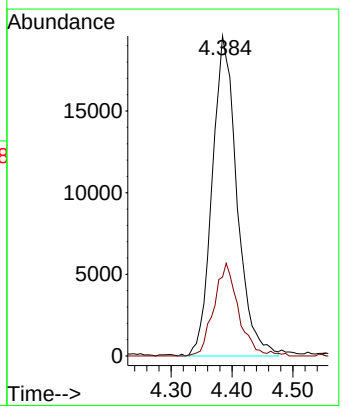
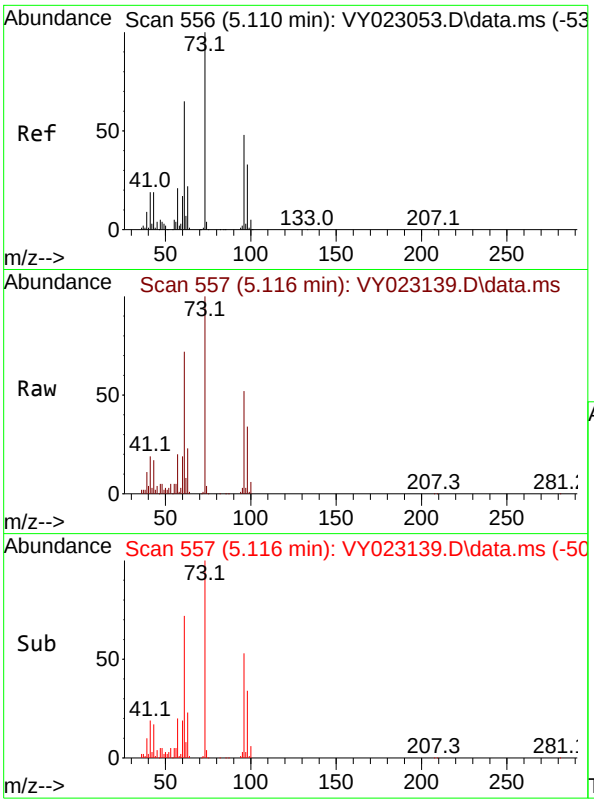


#18
Methyl Acetate
Concen: 17.426 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 55412

Ion	Ratio	Lower	Upper
43	100		
74	28.3	21.2	31.8

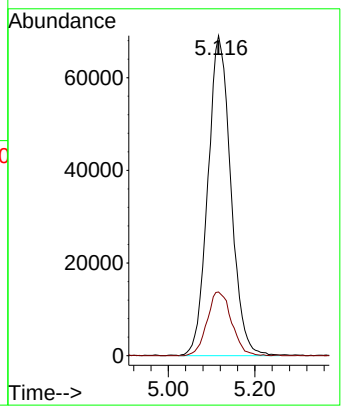




#19
Methyl tert-butyl Ether
Concen: 19.720 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 73 Resp: 25484

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.1	25.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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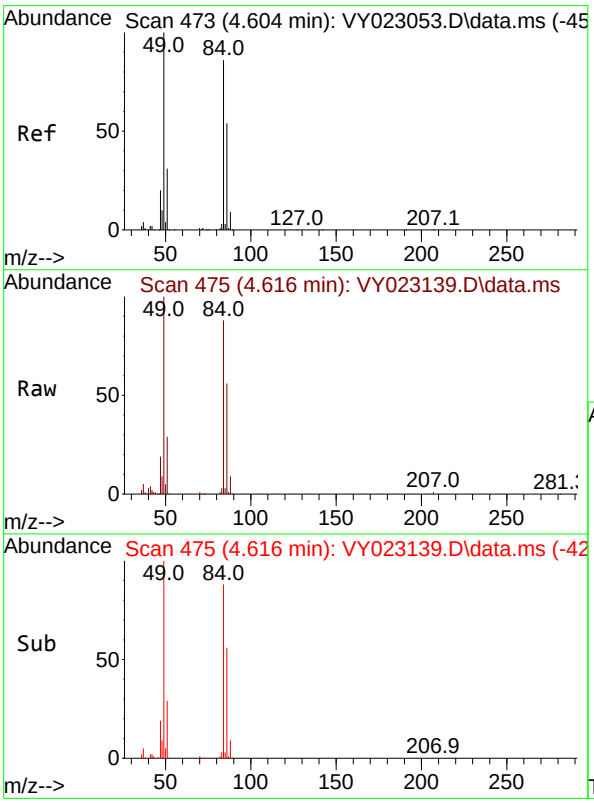
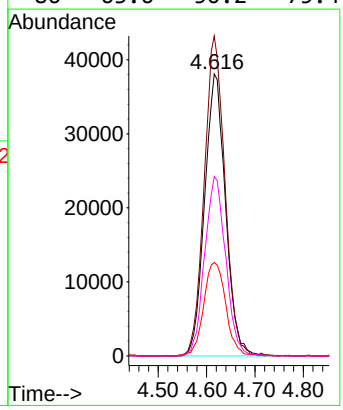
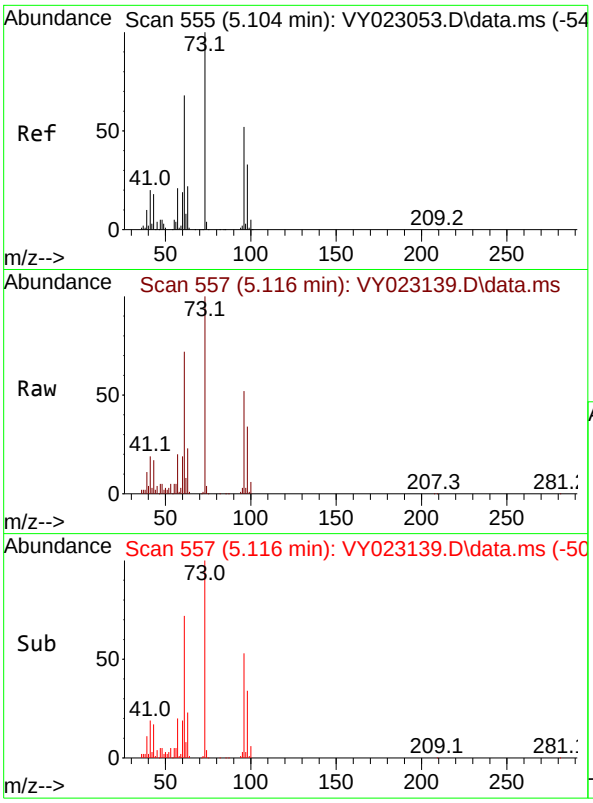


#20
Methylene Chloride
Concen: 18.875 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

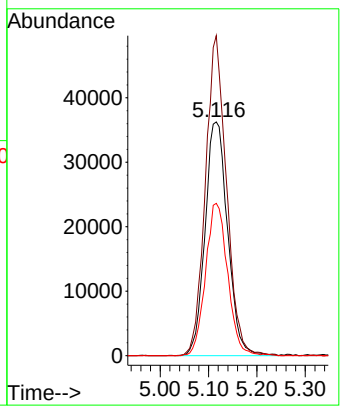




#21
trans-1,2-Dichloroethene
Concen: 20.993 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



Instrument :
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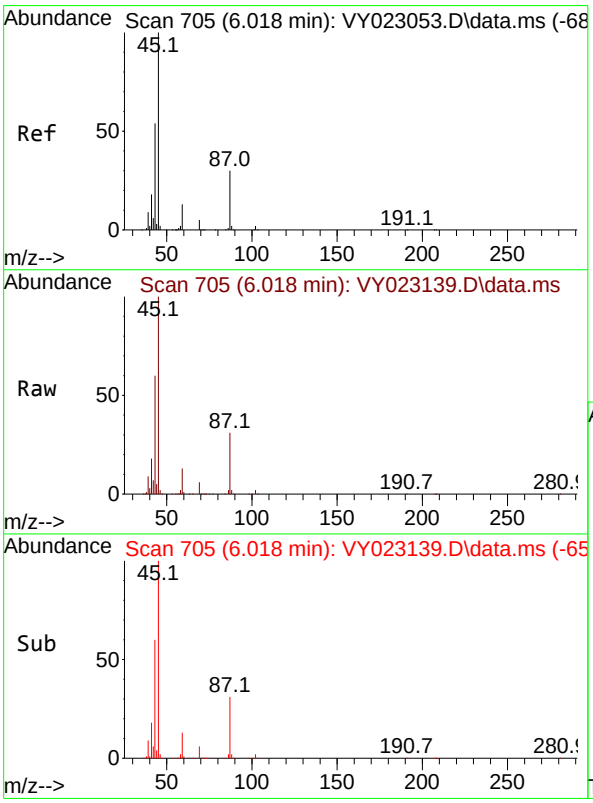
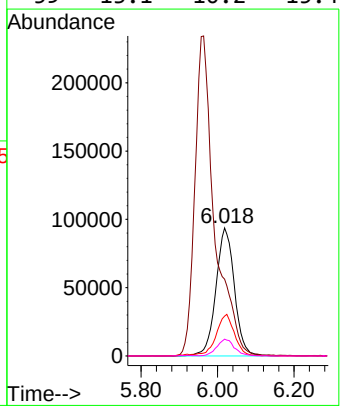
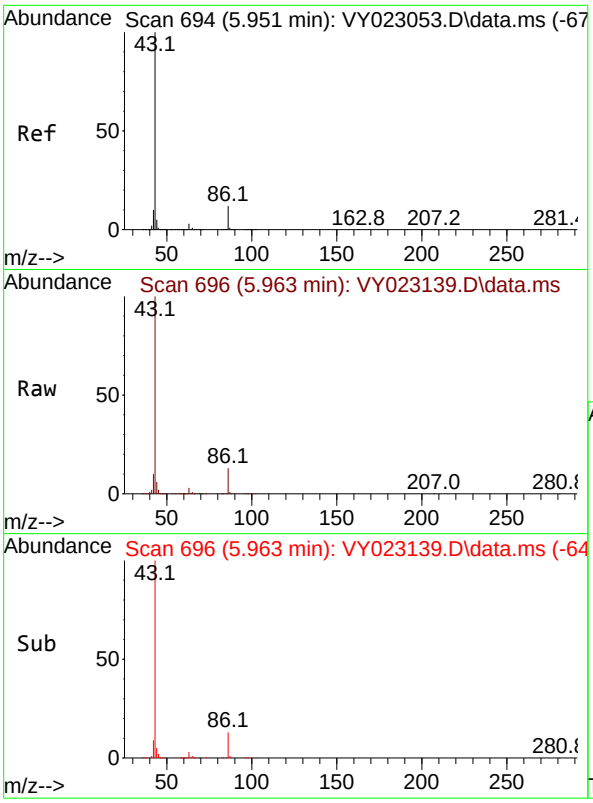


#22
Diisopropyl ether
Concen: 19.728 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

Instrument :
MSVOA_Y
ClientSampleId :
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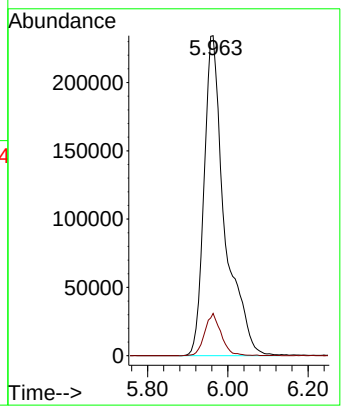
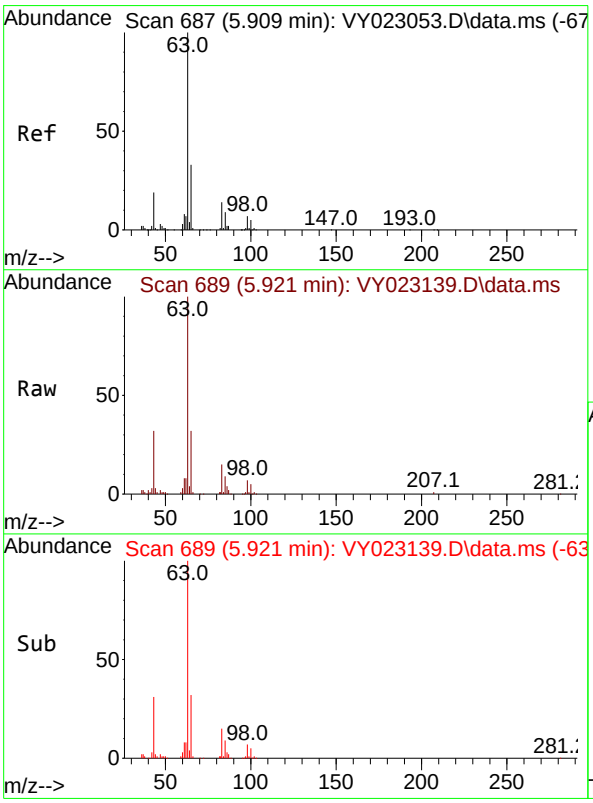
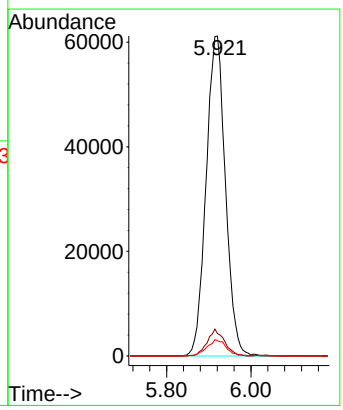


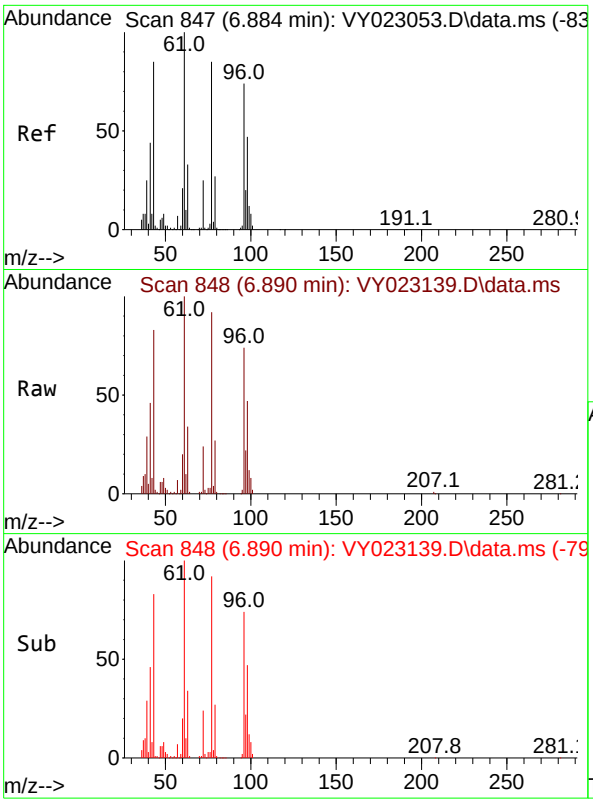


#24
1,1-Dichloroethane
Concen: 19.979 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

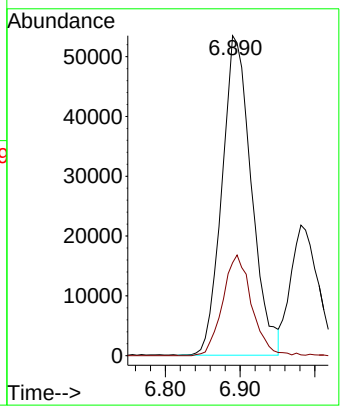




#25
2-Butanone
Concen: 100.847 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 14656

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.5	35.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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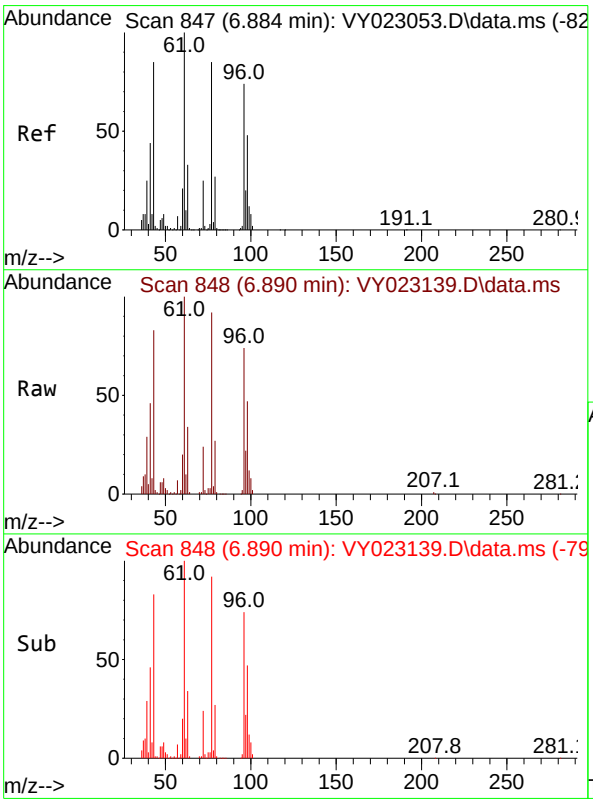
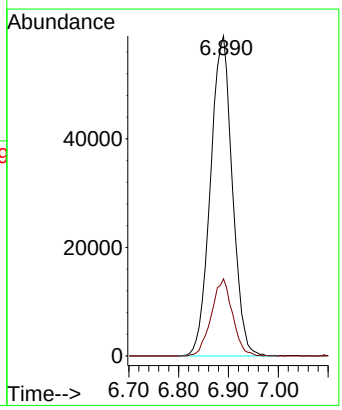
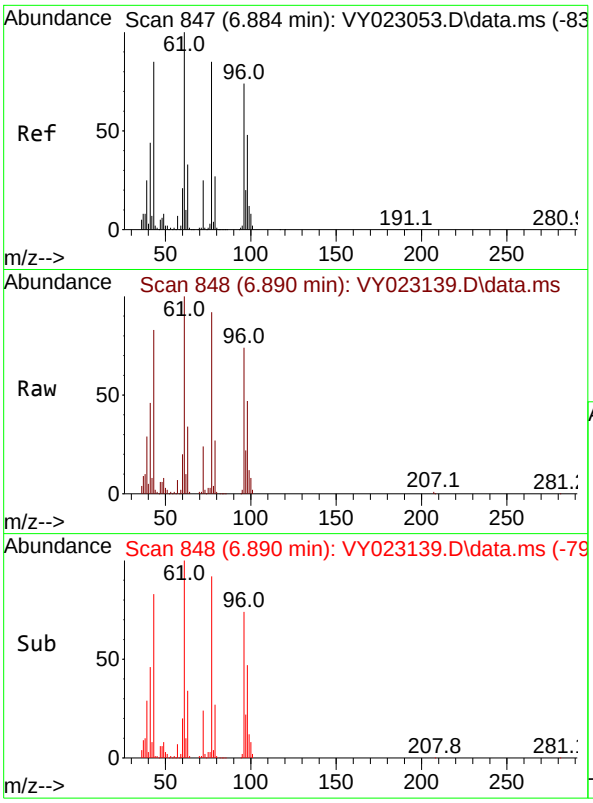


#26
2,2-Dichloropropane
Concen: 21.352 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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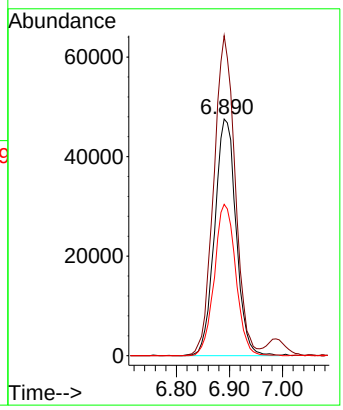
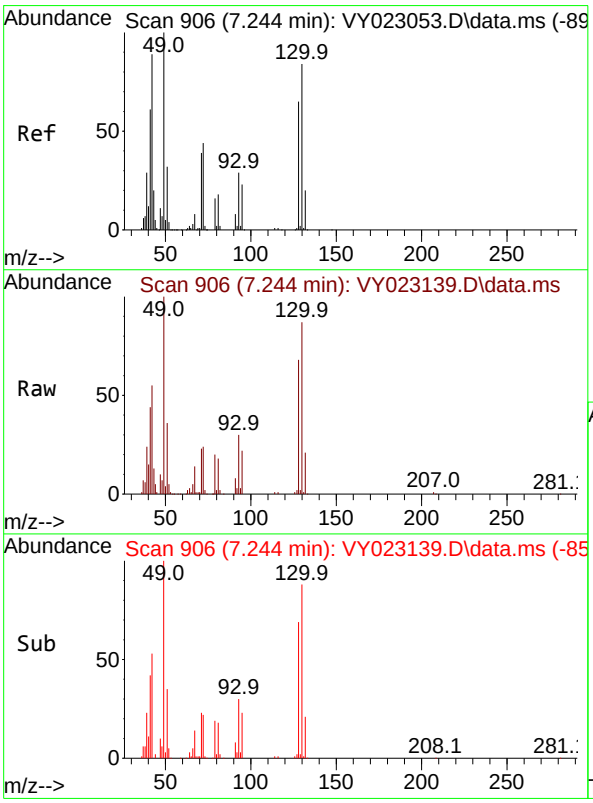
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

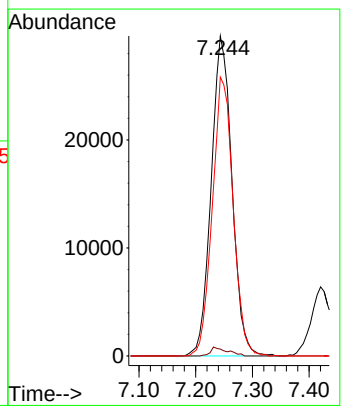


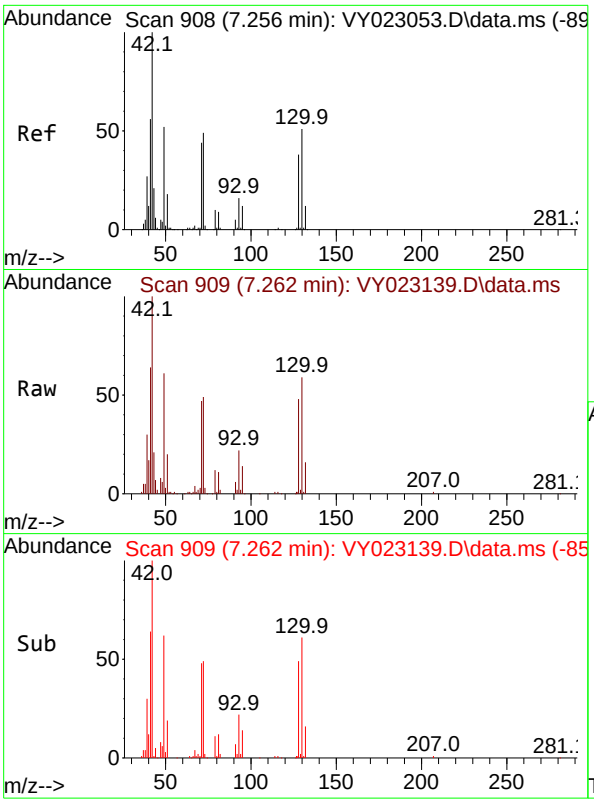


#28
Bromochloromethane
Concen: 19.474 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

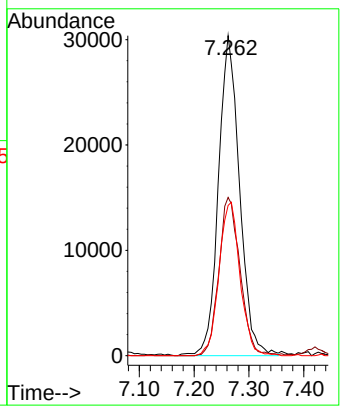




#29
Tetrahydrofuran
Concen: 90.389 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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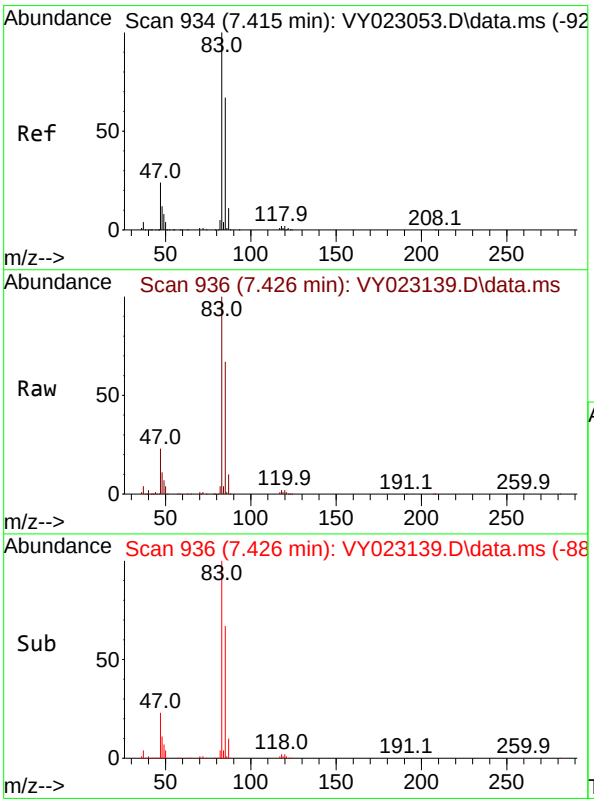
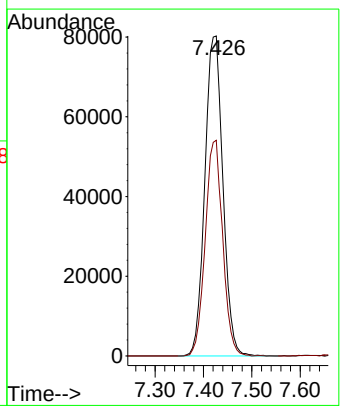
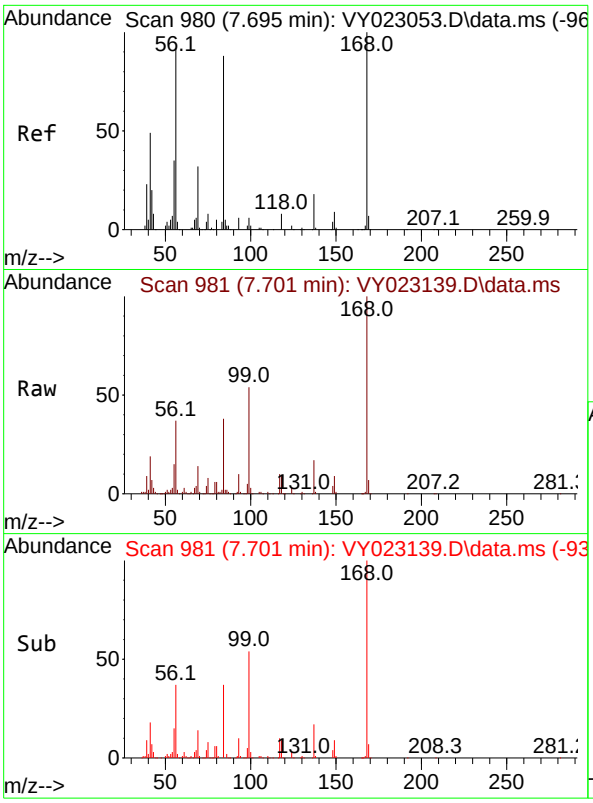


#30
Chloroform
Concen: 20.690 ug/l
RT: 7.426 min Scan# 936
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 208029

Ion	Ratio	Lower	Upper
83	100		
85	67.4	53.8	80.8

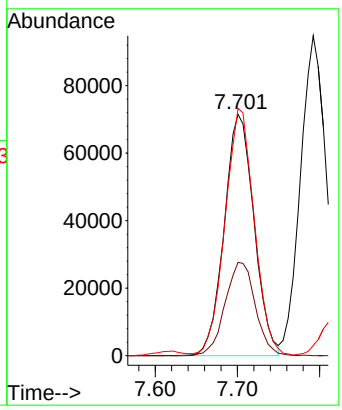




#31
Cyclohexane
Concen: 19.640 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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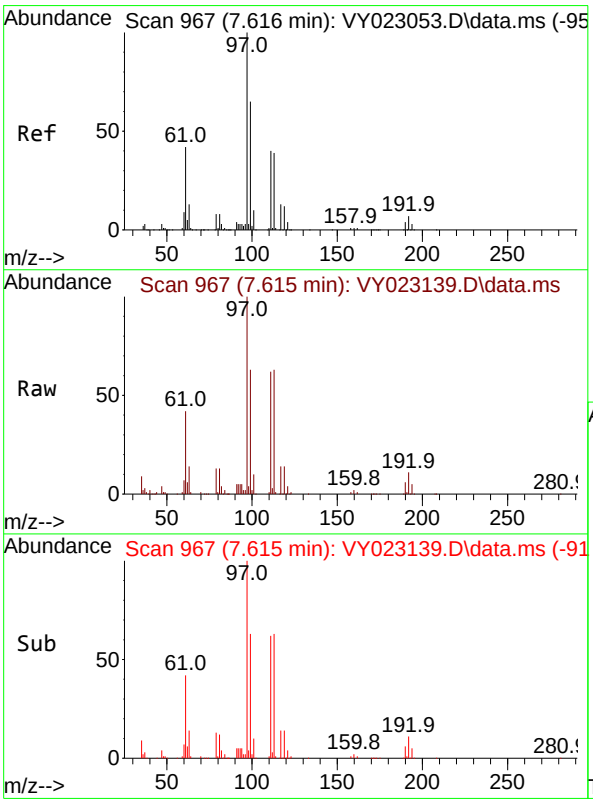
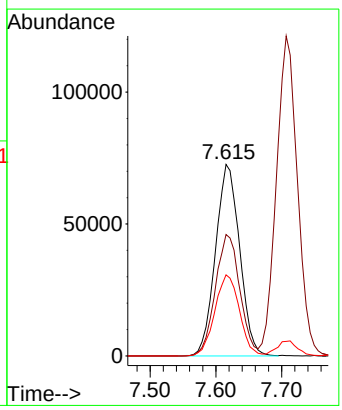
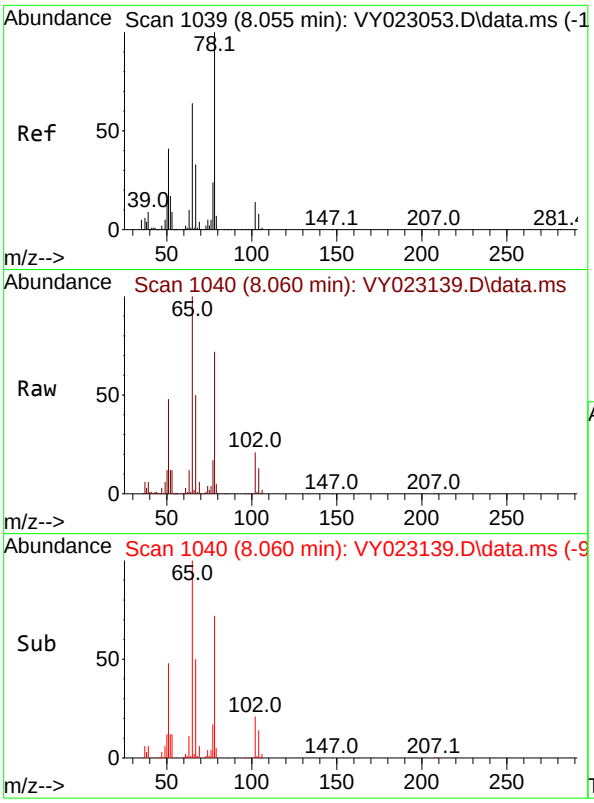


#32
1,1,1-Trichloroethane
Concen: 20.833 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

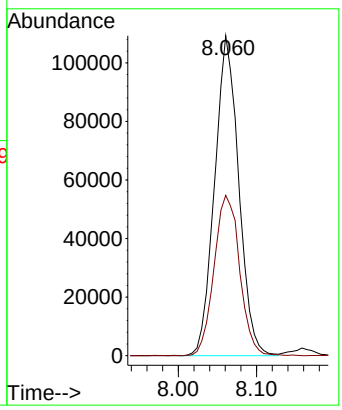




#33
1,2-Dichloroethane-d4
Concen: 47.365 ug/l
RT: 8.060 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 65 Resp: 23362

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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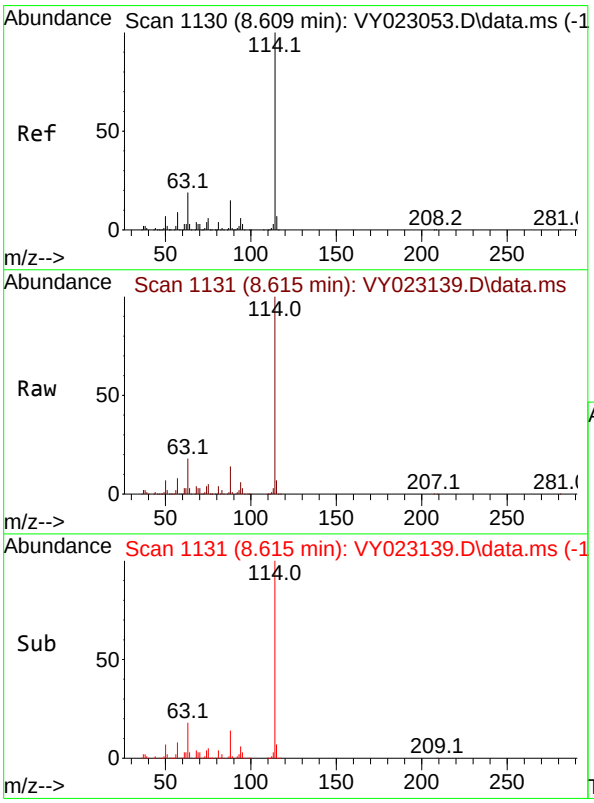
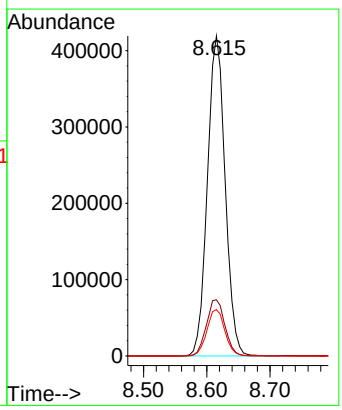
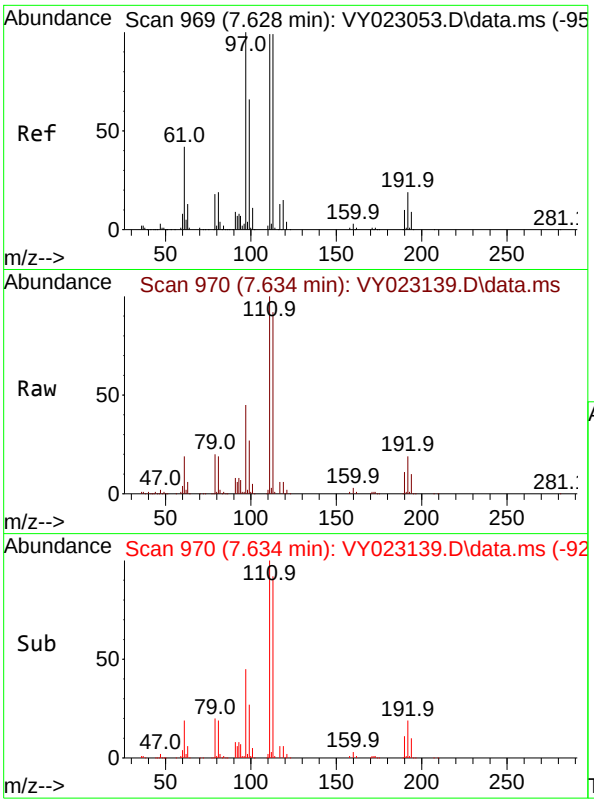


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

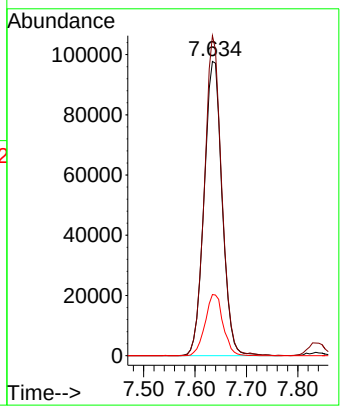




#35
Dibromofluoromethane
Concen: 48.567 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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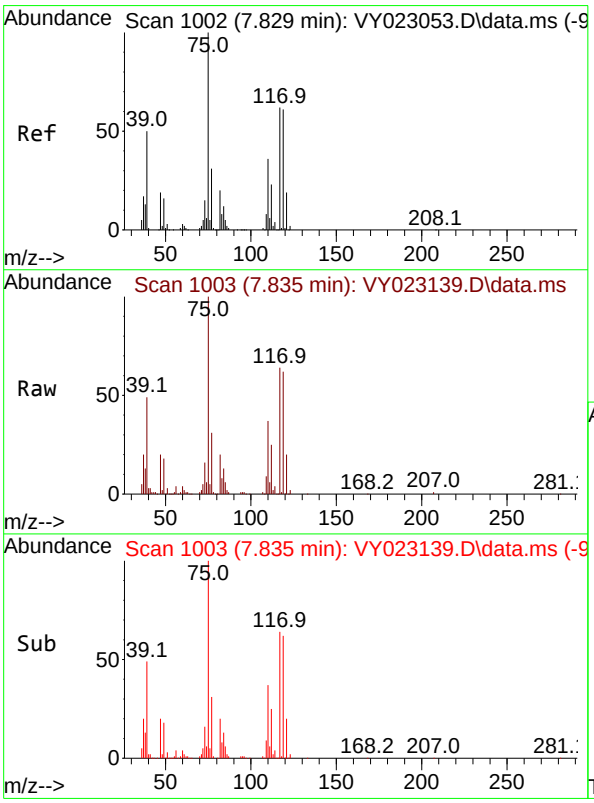
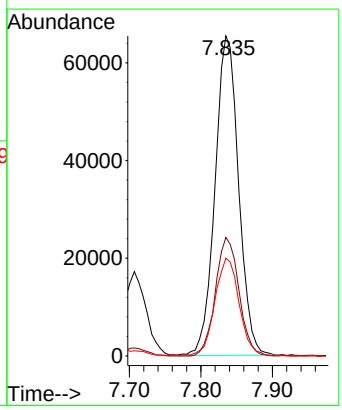
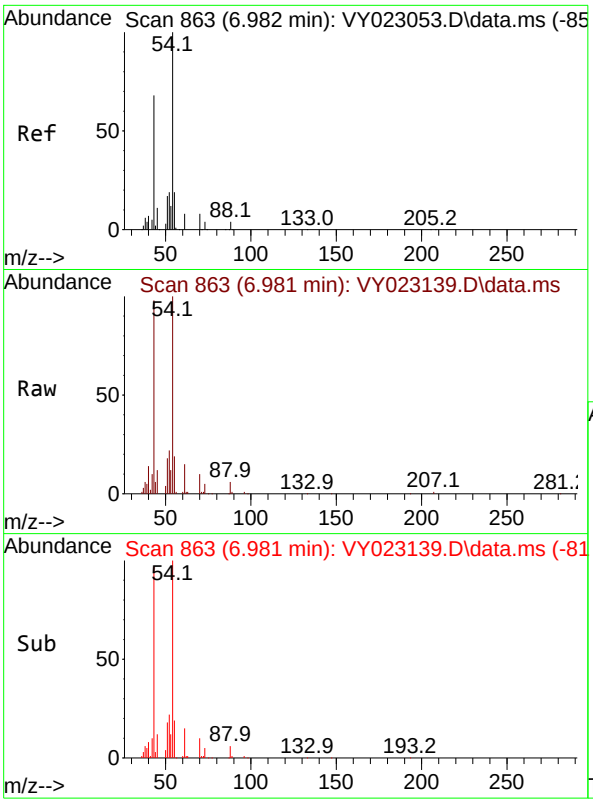


#36
1,1-Dichloropropene
Concen: 20.606 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

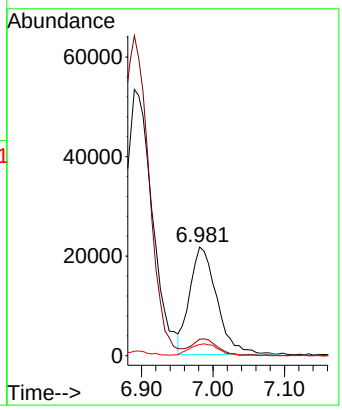




#37
Ethyl Acetate
Concen: 18.660 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

Manual Integrations
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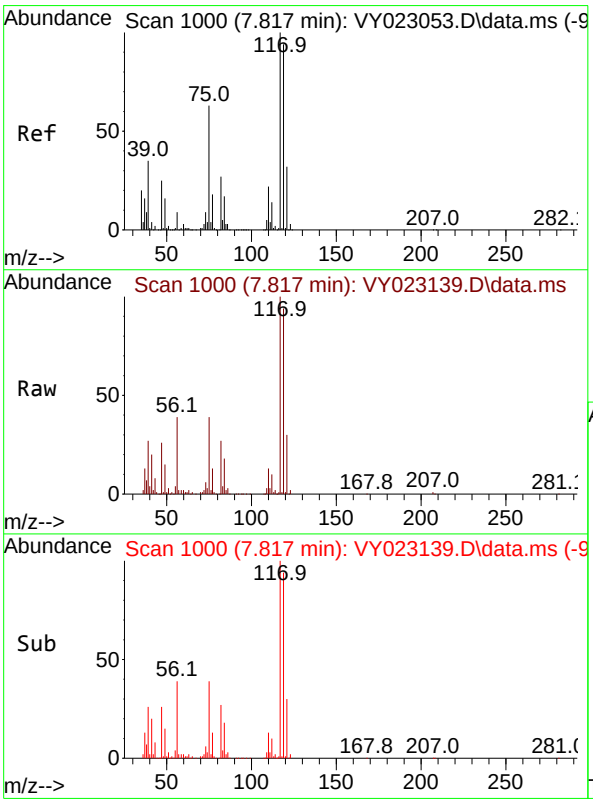
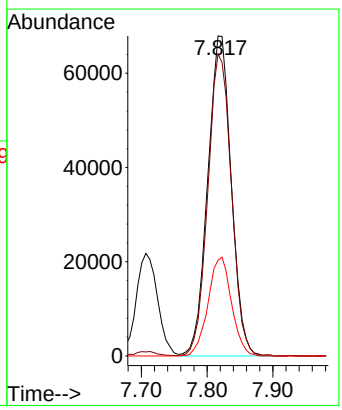
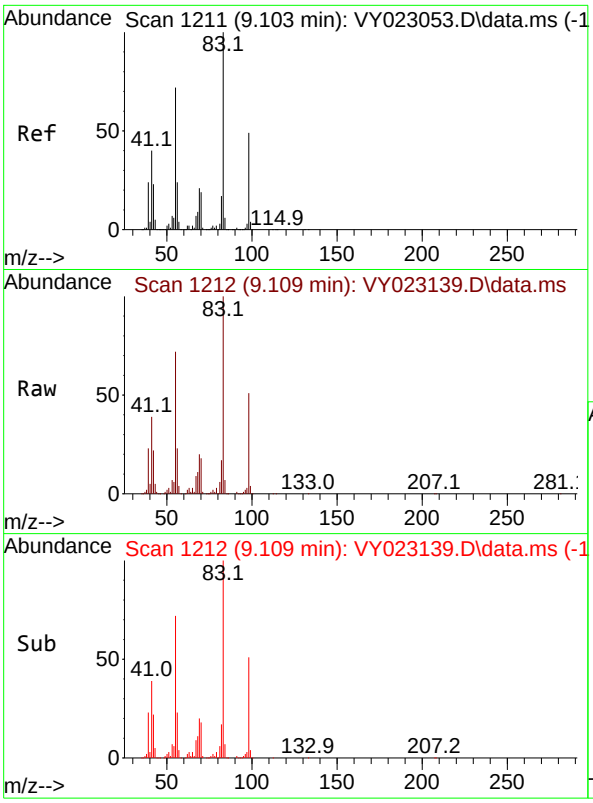


#38
Carbon Tetrachloride
Concen: 21.430 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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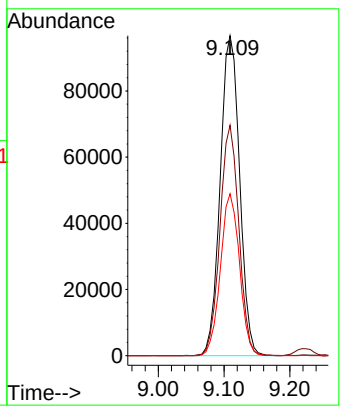
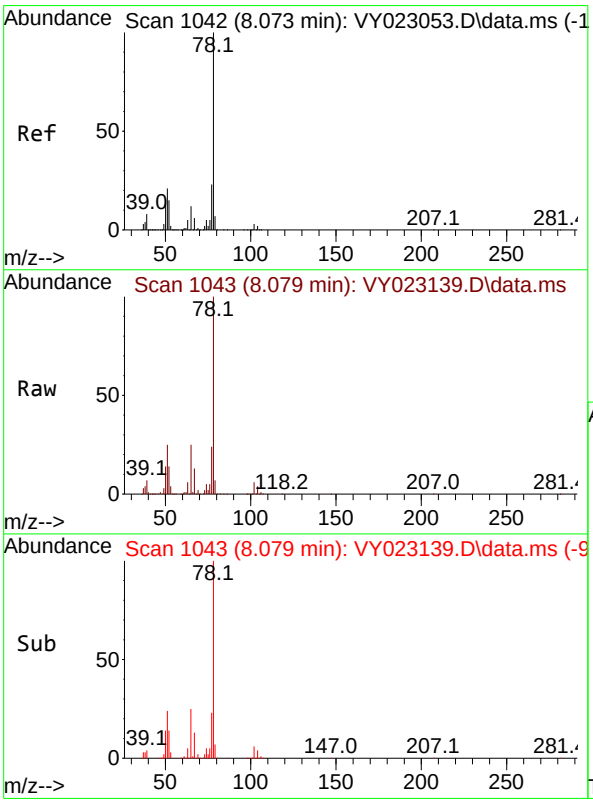
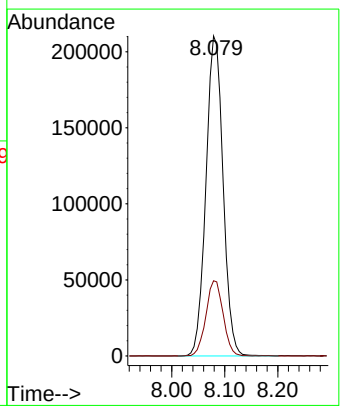


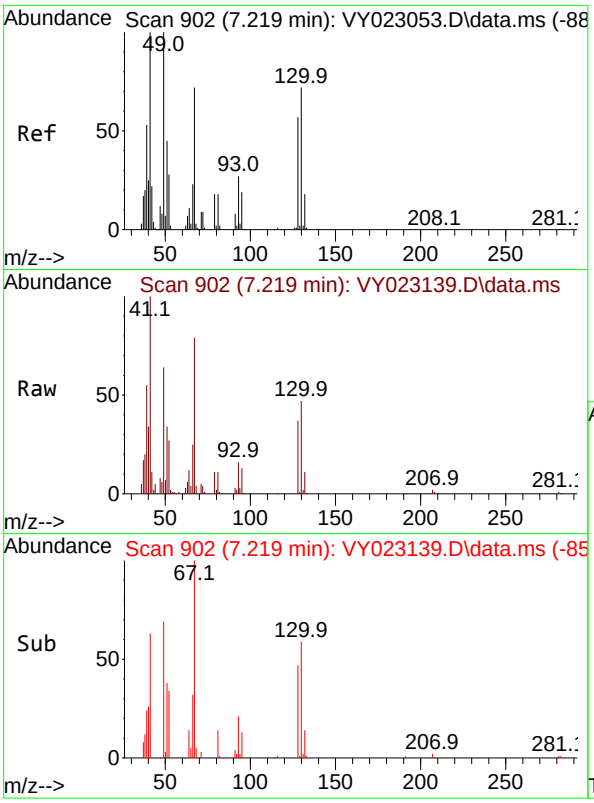


#40
Benzene
Concen: 21.055 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 78 Resp: 471421

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0

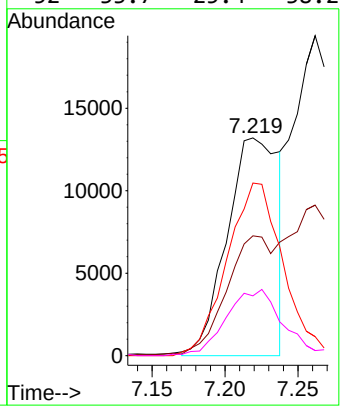




#41
Methacrylonitrile
Concen: 18.482 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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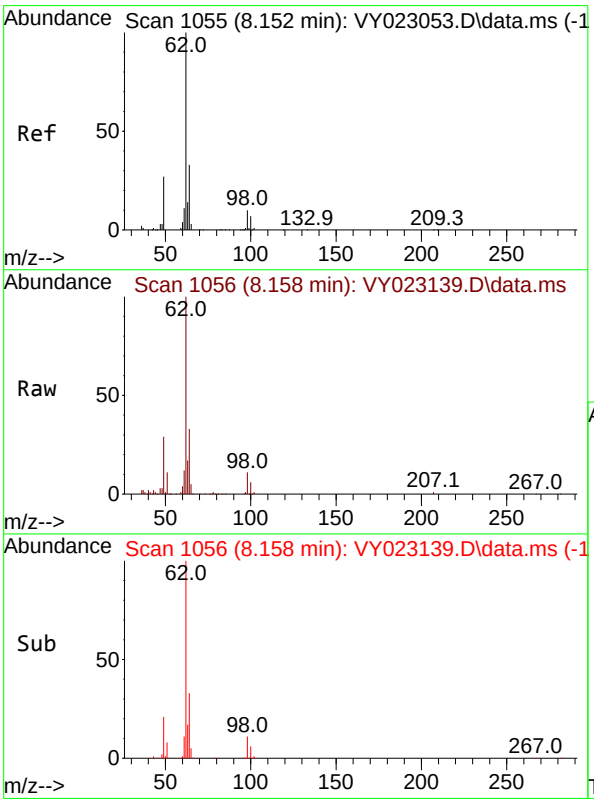
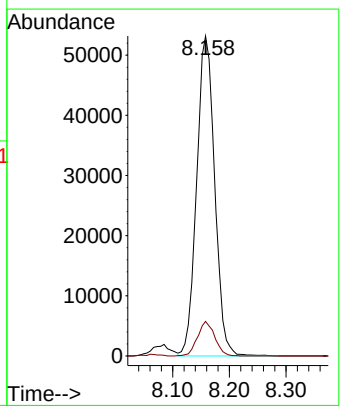
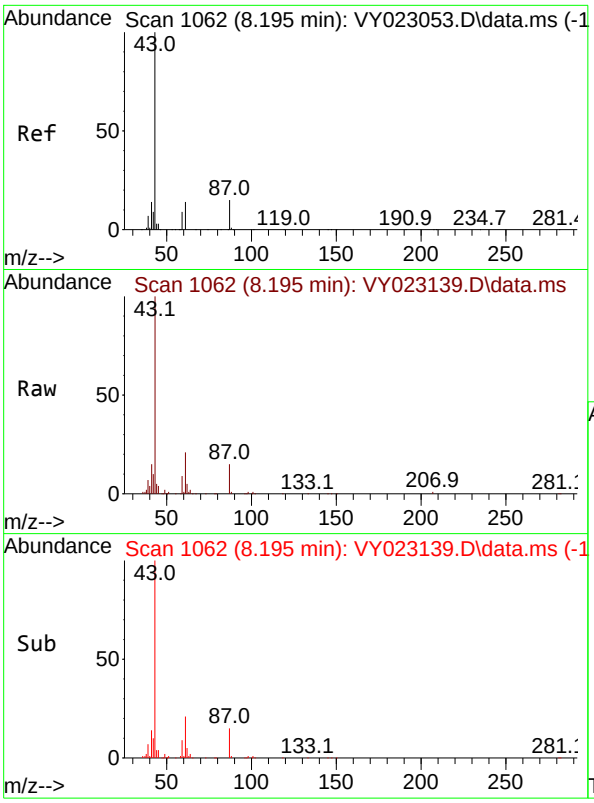


#42
1,2-Dichloroethane
Concen: 20.187 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 117552

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6

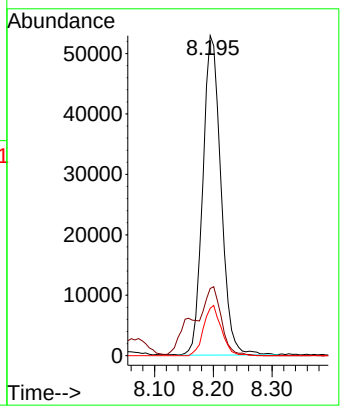




#43
Isopropyl Acetate
Concen: 18.431 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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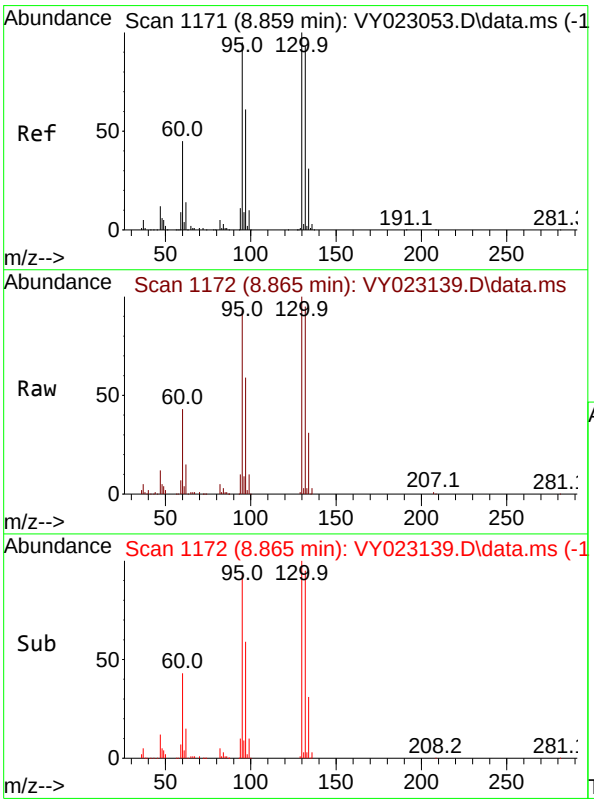
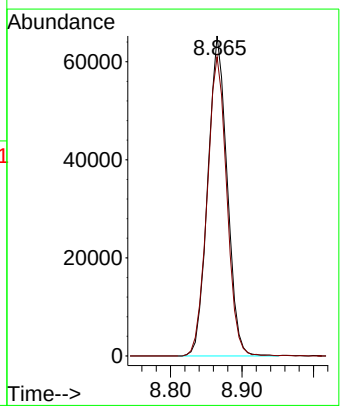
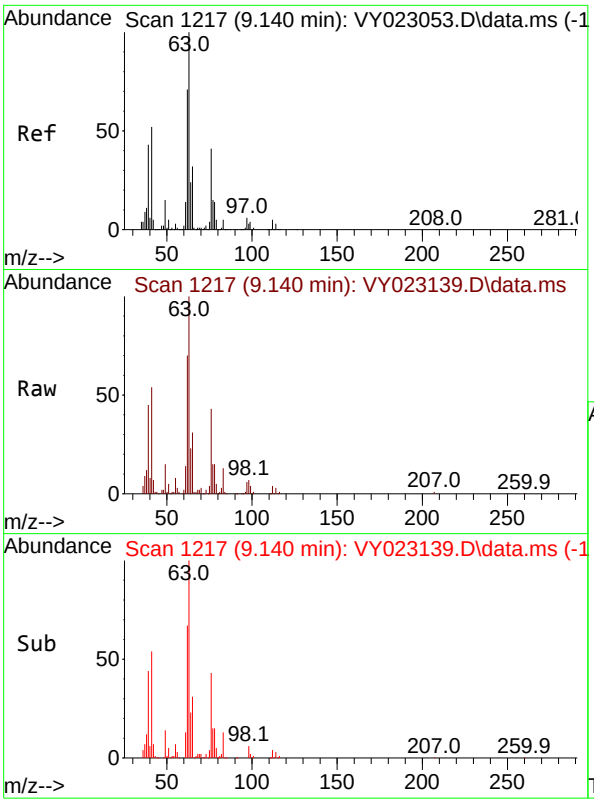


#44
Trichloroethene
Concen: 21.187 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:130 Resp: 122590

Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	190.2

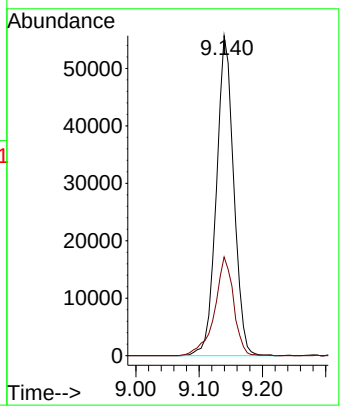




#45
1,2-Dichloropropane
Concen: 20.506 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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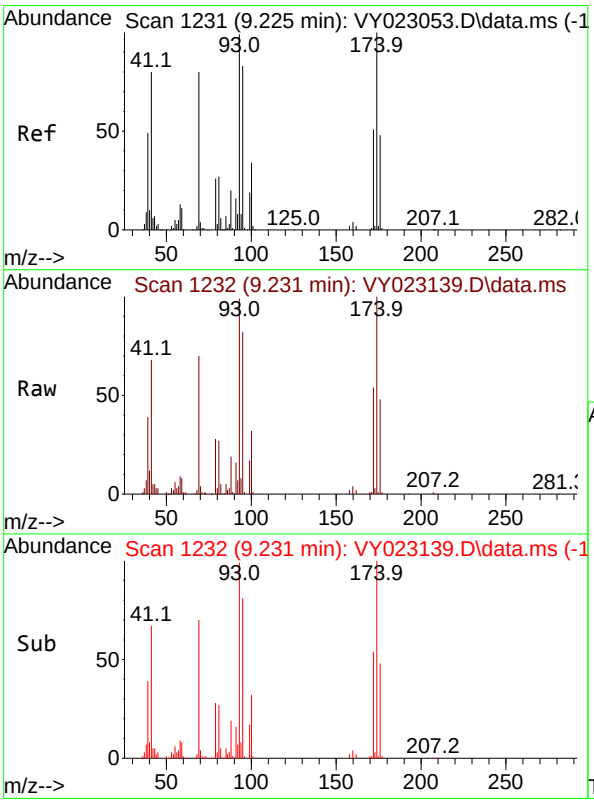
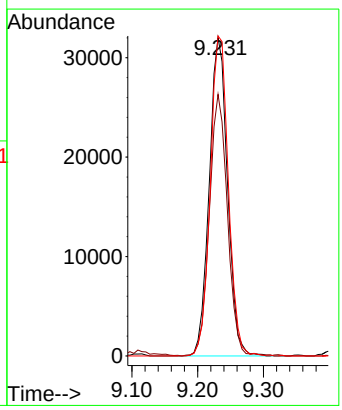
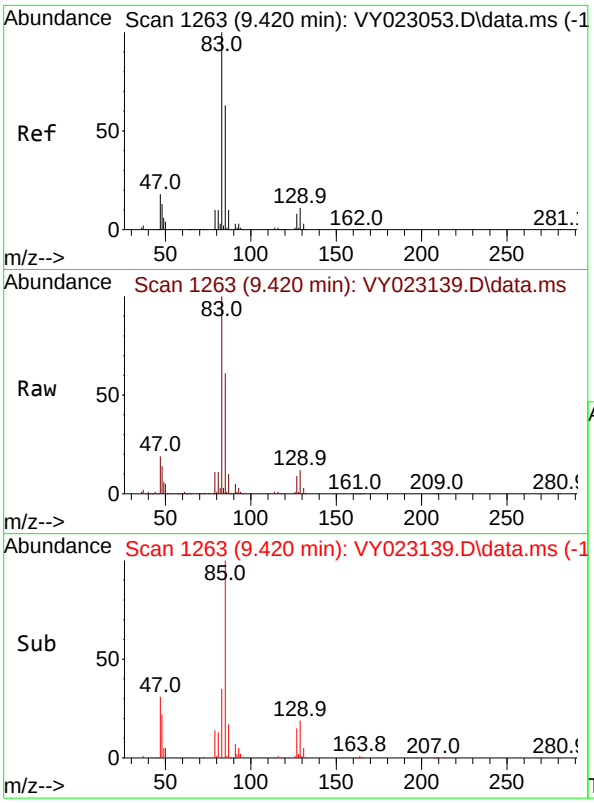


#46
Dibromomethane
Concen: 20.972 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

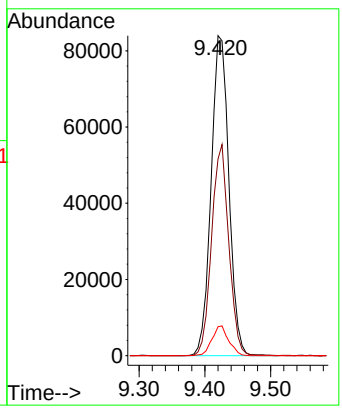




#47
Bromodichloromethane
Concen: 20.725 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
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ClientSampleId :
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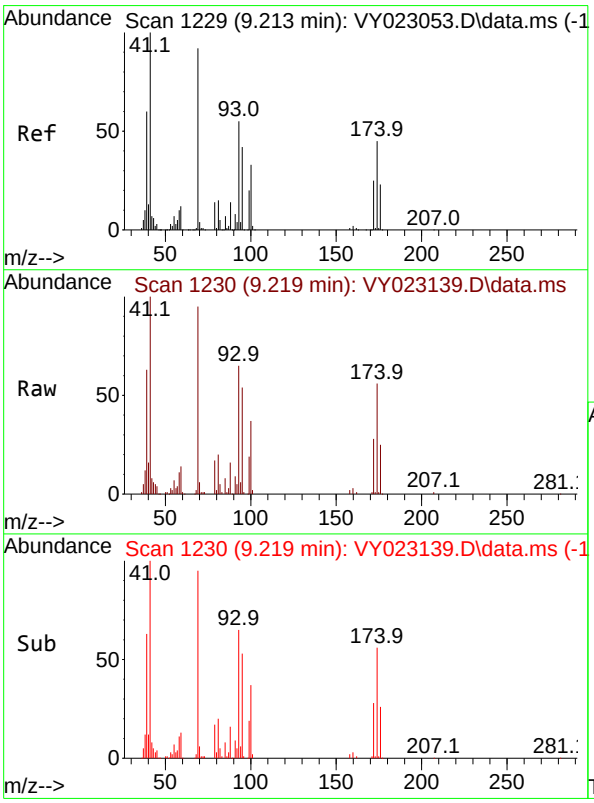
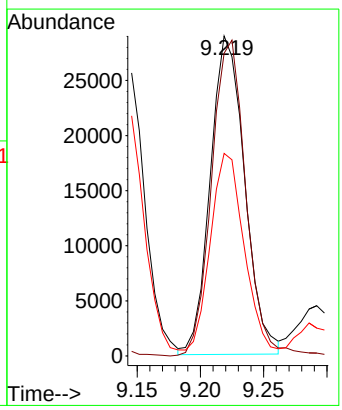
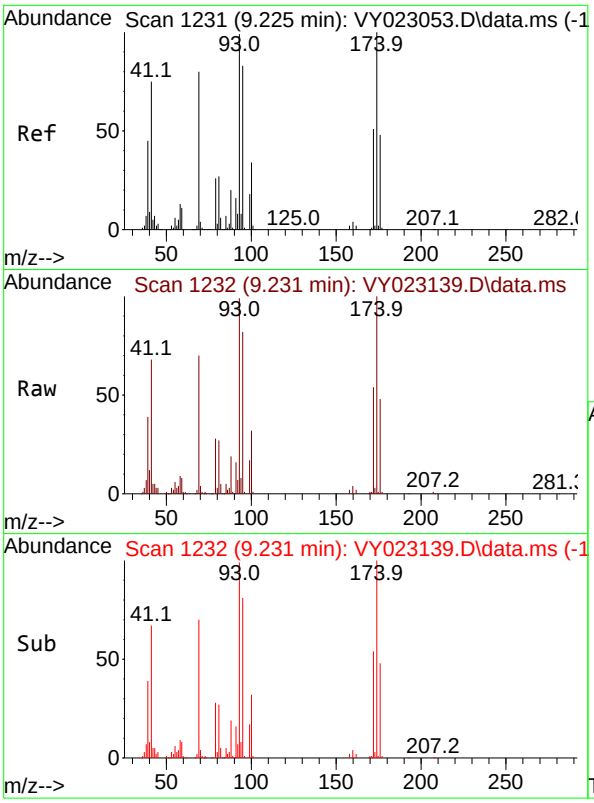


#48
Methyl methacrylate
Concen: 18.499 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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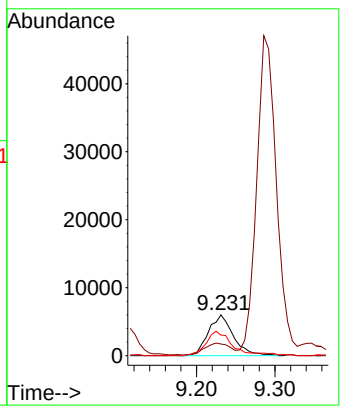
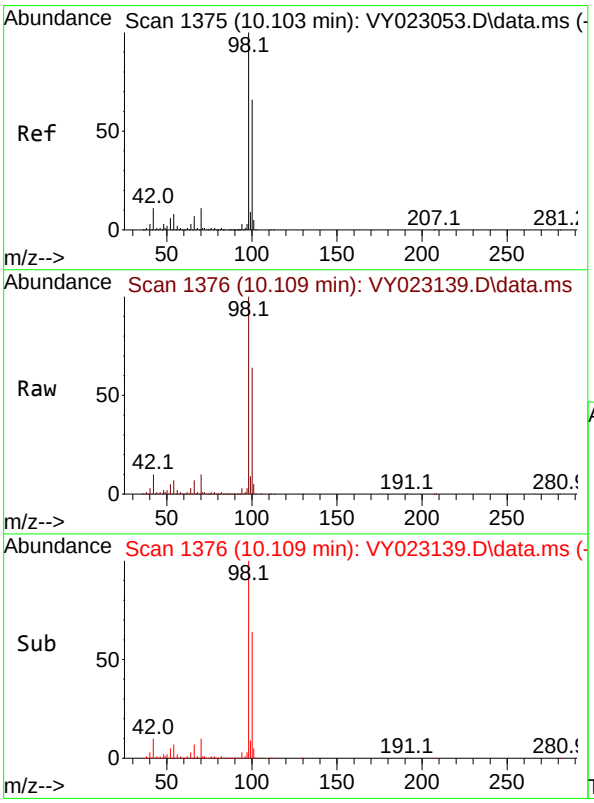
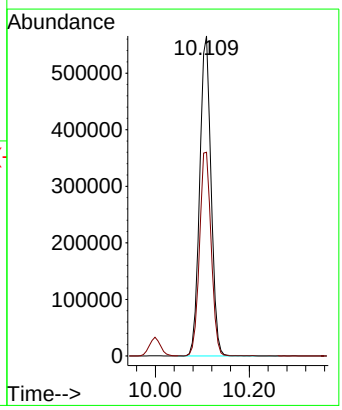


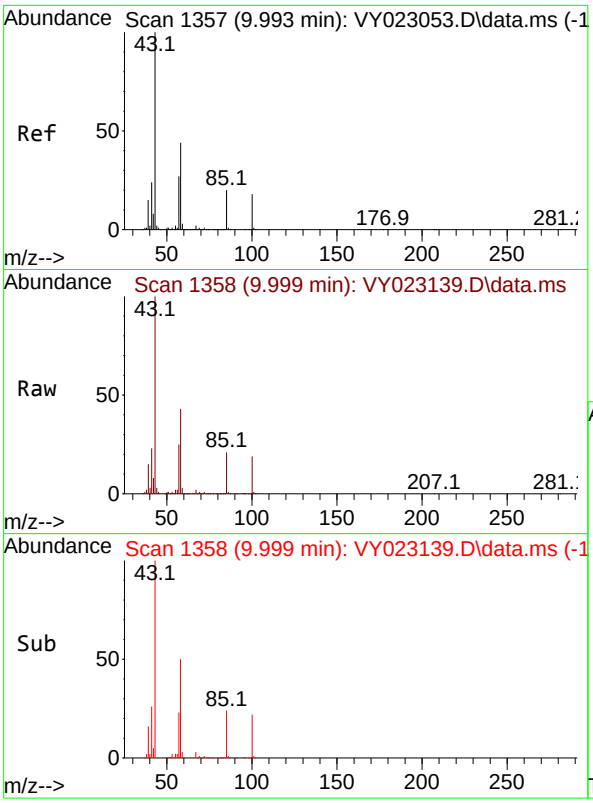


#50
Toluene-d8
Concen: 49.608 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 98 Resp: 947313

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5

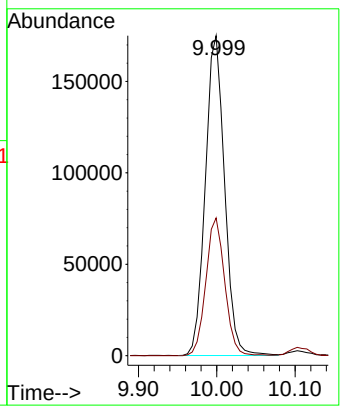




#51
4-Methyl-2-Pentanone
Concen: 93.721 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 29817

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3



Instrument :
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ClientSampleId :
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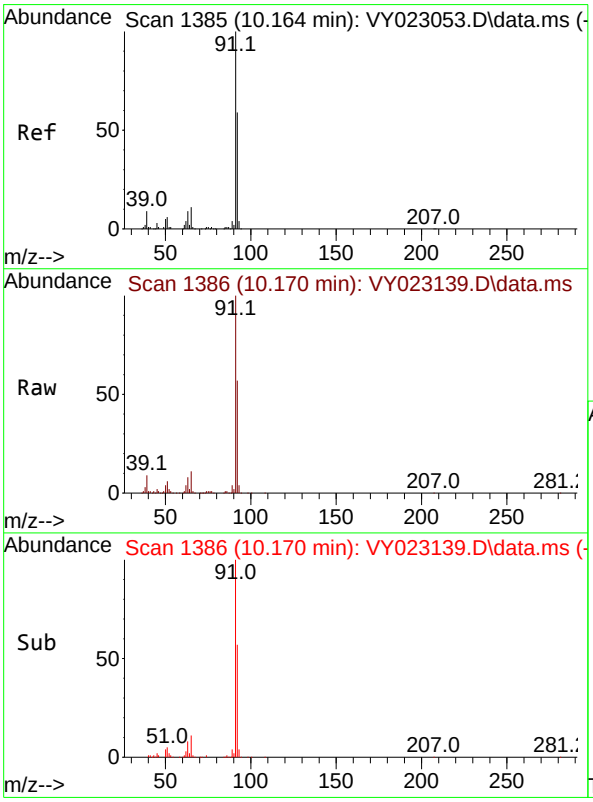
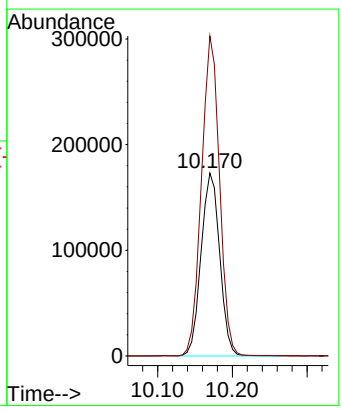
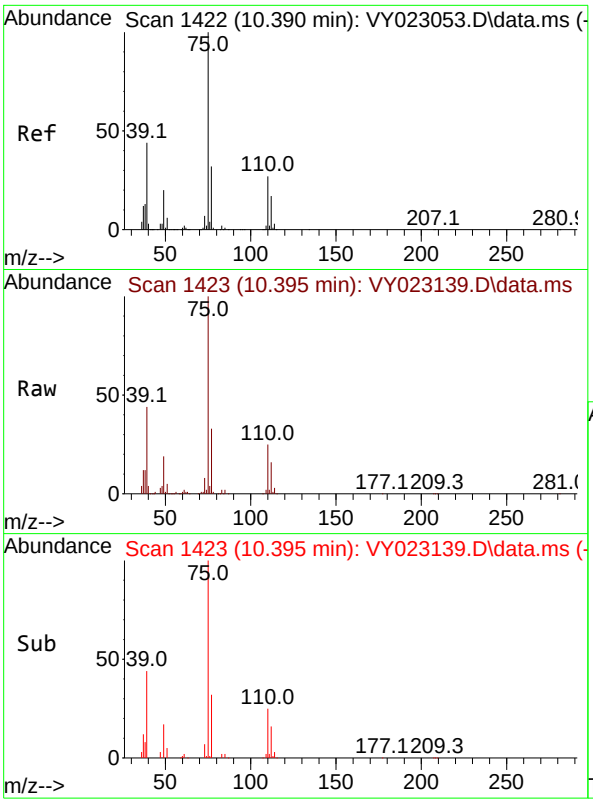


#52
Toluene
Concen: 21.028 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 92 Resp: 299030

Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.4	204.6

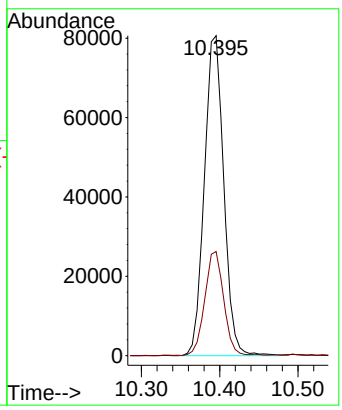




#53
t-1,3-Dichloropropene
Concen: 20.144 ug/l
RT: 10.395 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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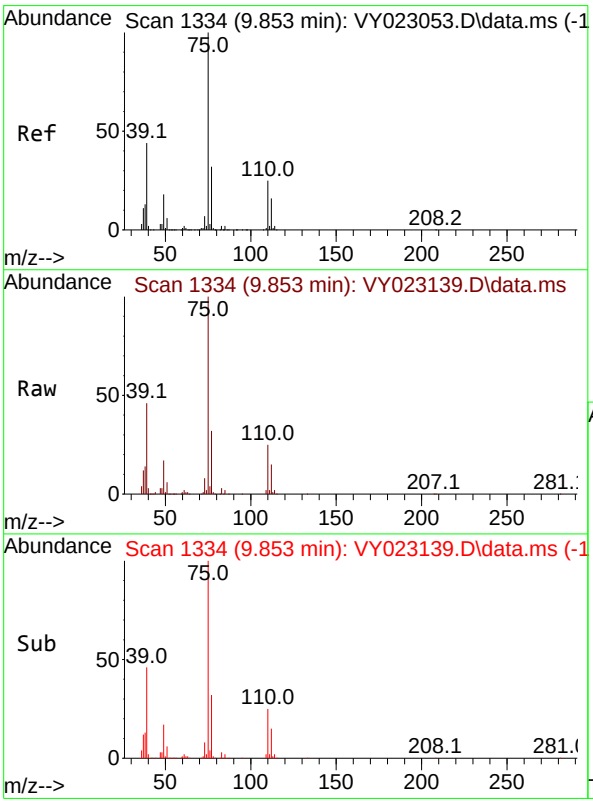
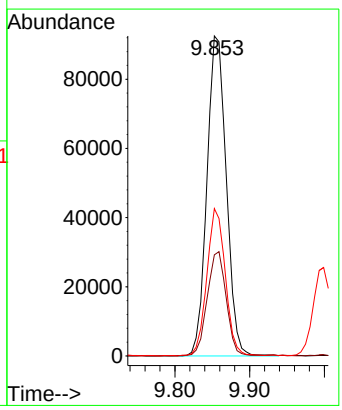
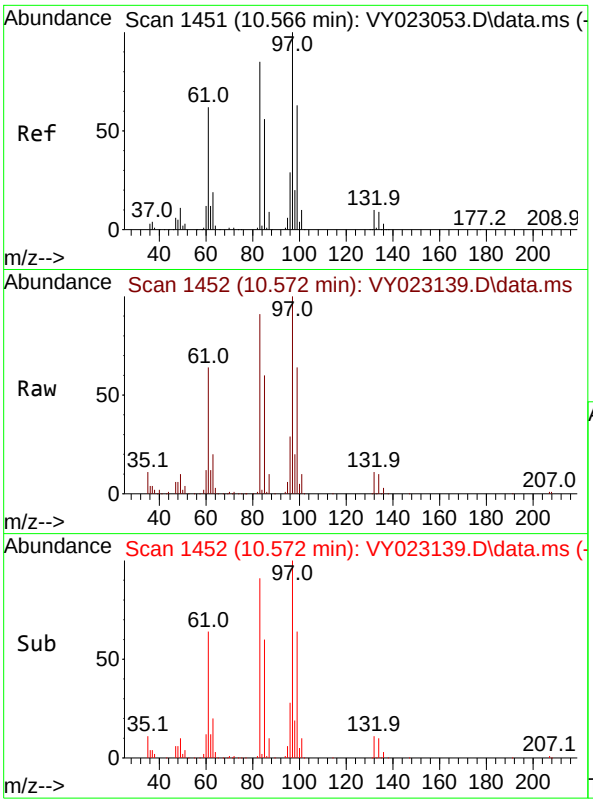


#54
cis-1,3-Dichloropropene
Concen: 20.453 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

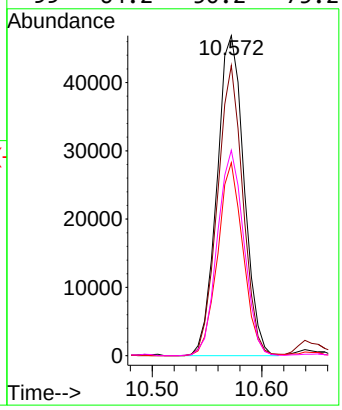




#55
1,1,2-Trichloroethane
Concen: 20.350 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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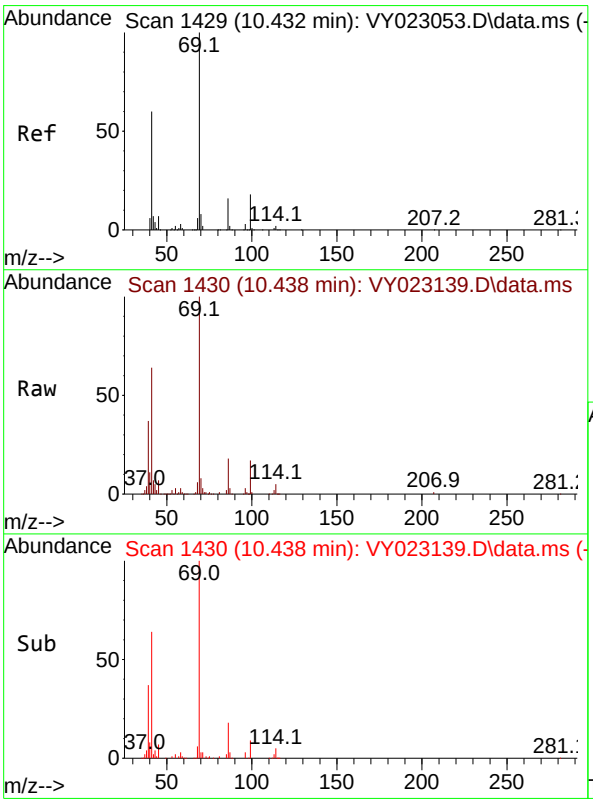
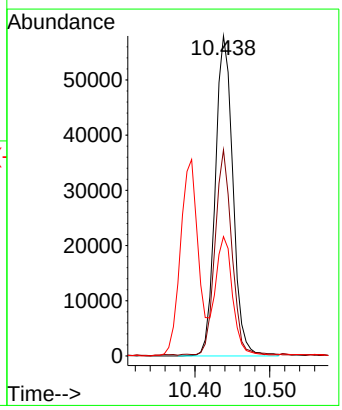
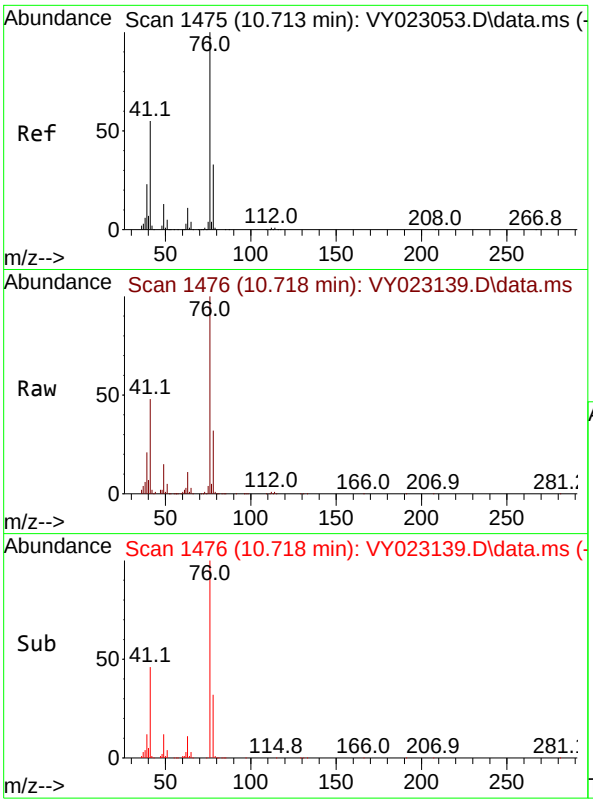


#56
Ethyl methacrylate
Concen: 18.741 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
MSVOA_Y
ClientSampleId :
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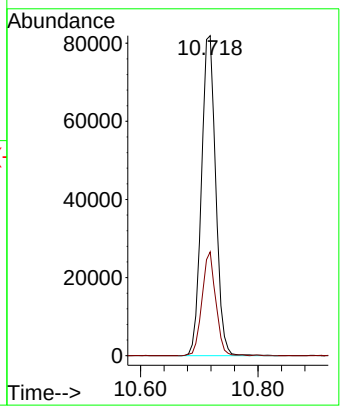
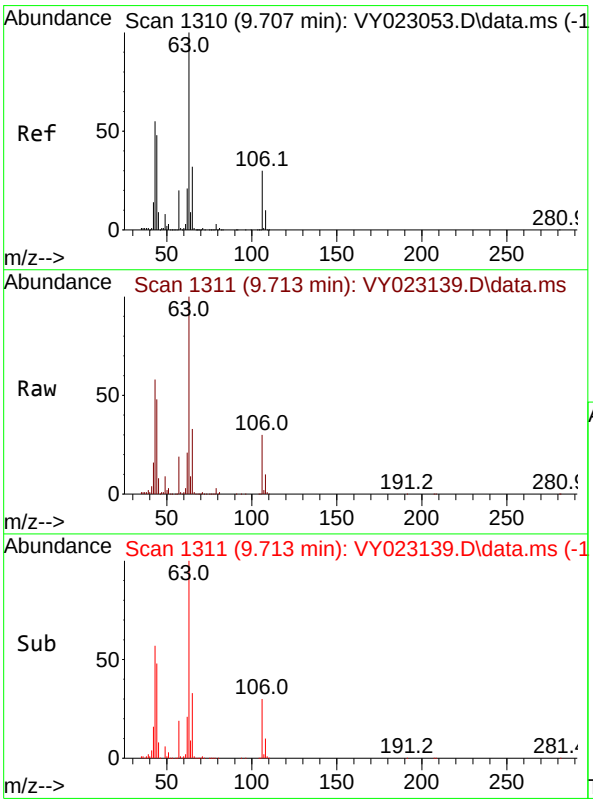
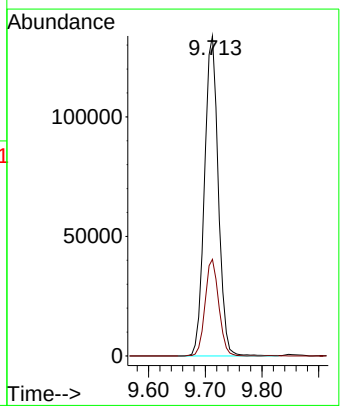


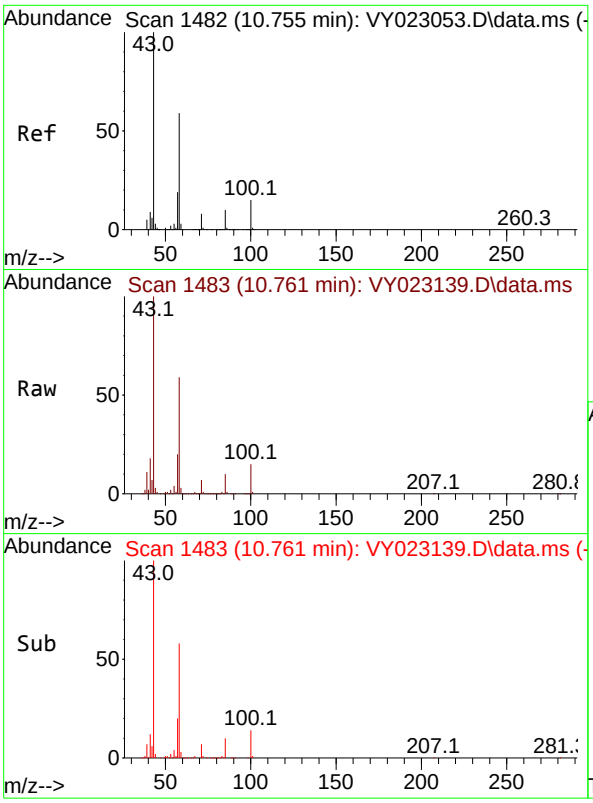


#58
2-Chloroethyl Vinyl ether
Concen: 94.672 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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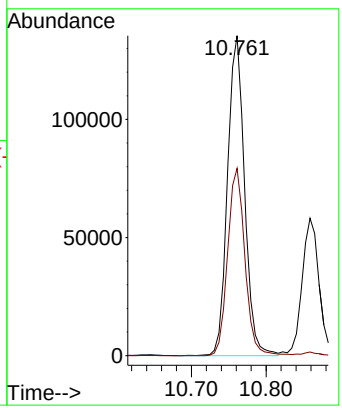
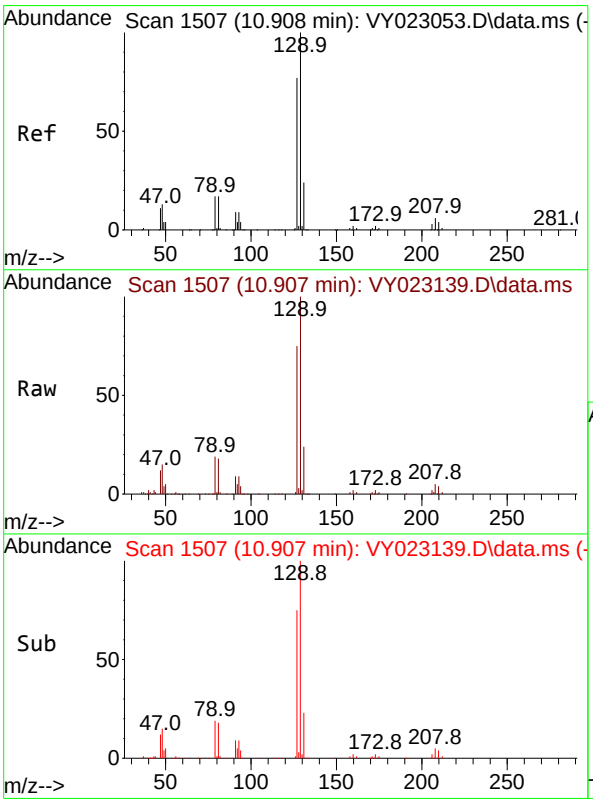
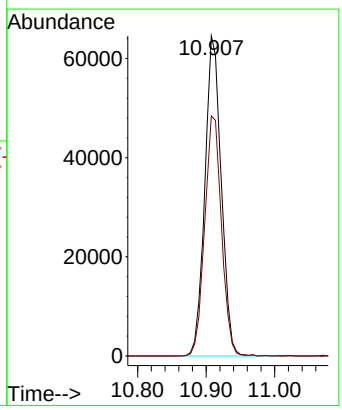


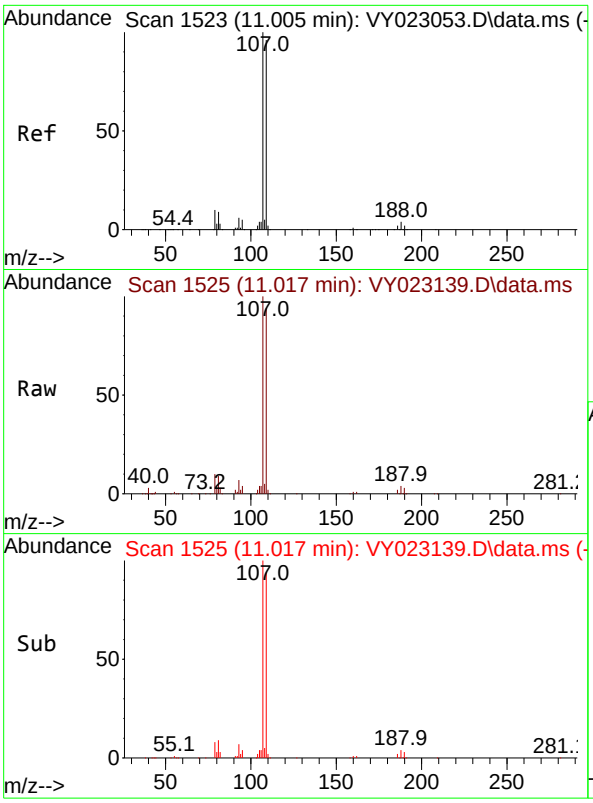


#60
Dibromochloromethane
Concen: 20.554 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:129 Resp: 107311

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.5

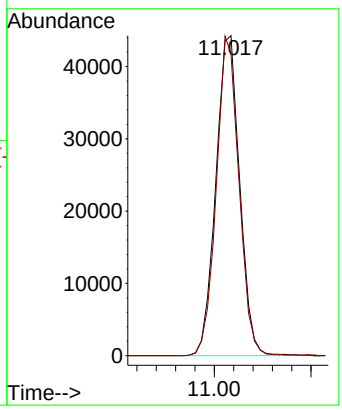




#61
1,2-Dibromoethane
Concen: 20.280 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:107 Resp: 7541

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.6	113.4



Instrument :
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ClientSampleId :
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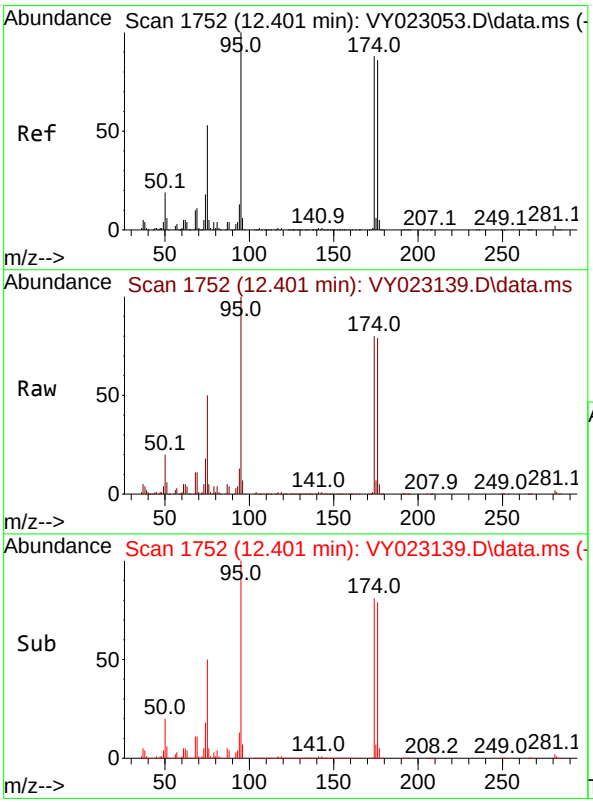
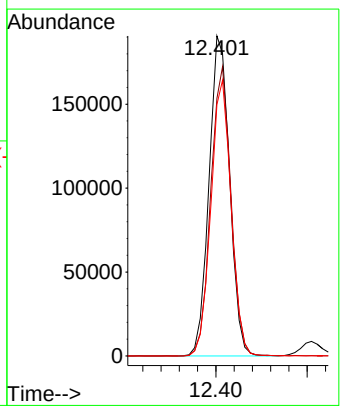
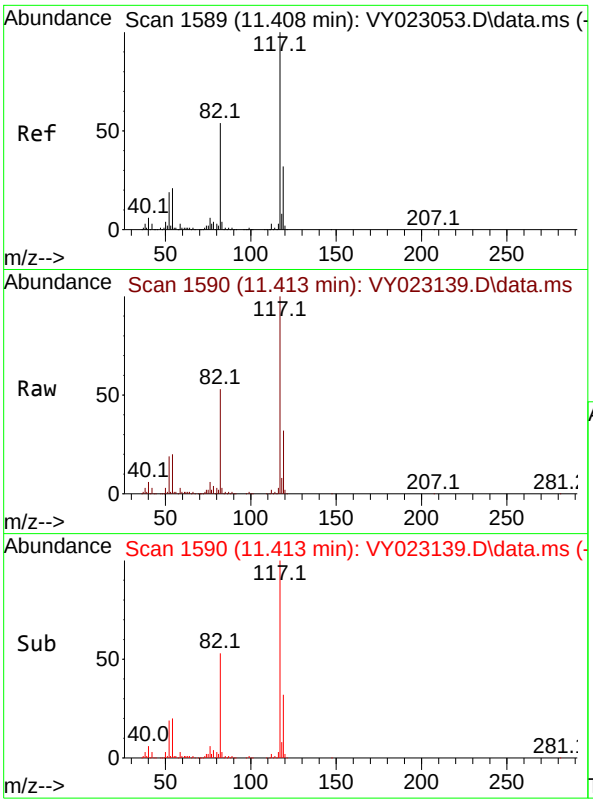


#62
4-Bromofluorobenzene
Concen: 48.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

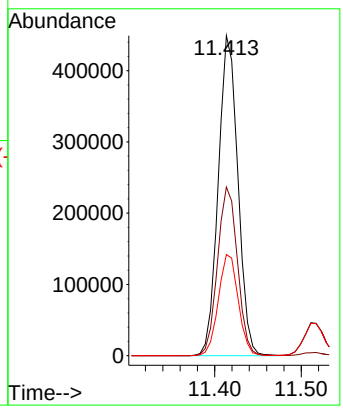




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
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ClientSampleId :
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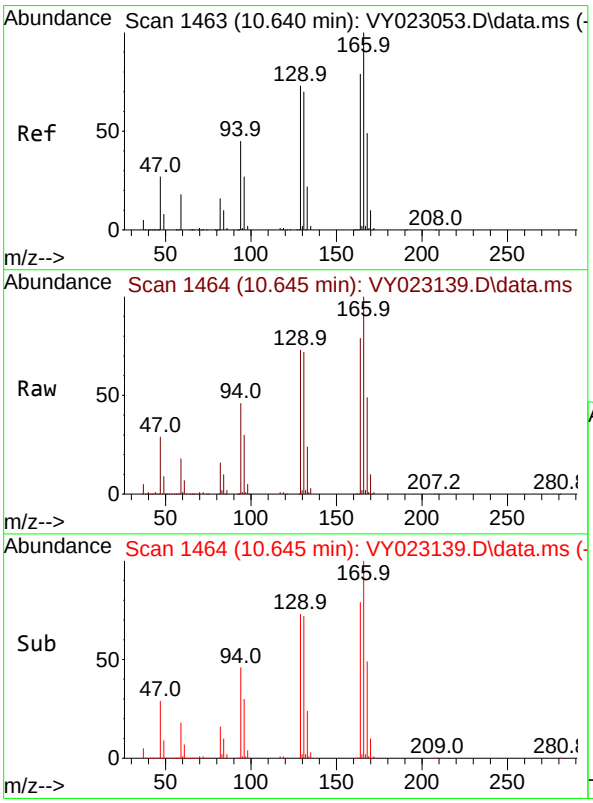
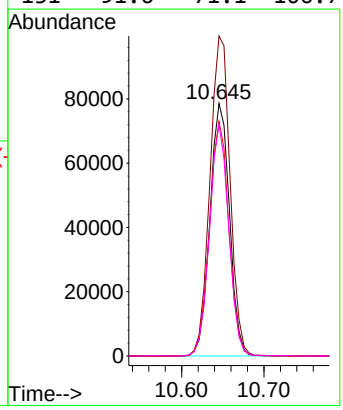
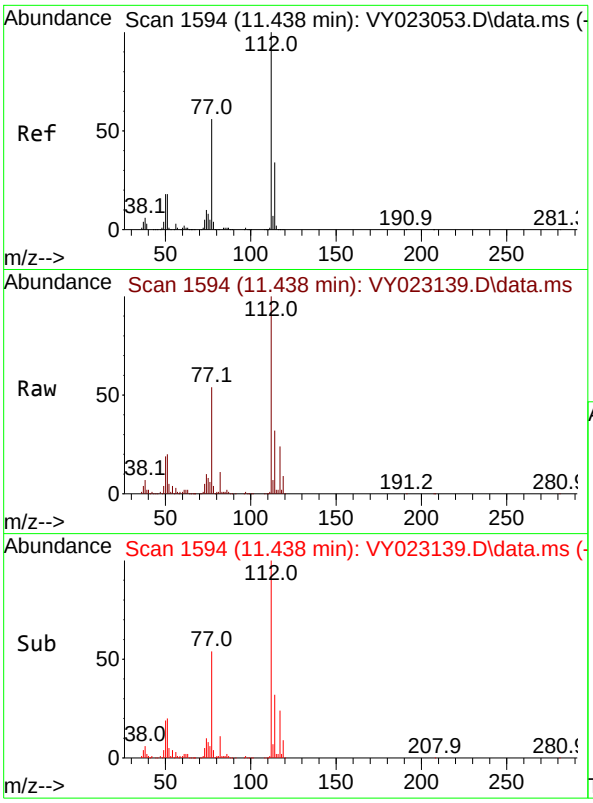


#64
Tetrachloroethene
Concen: 20.532 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

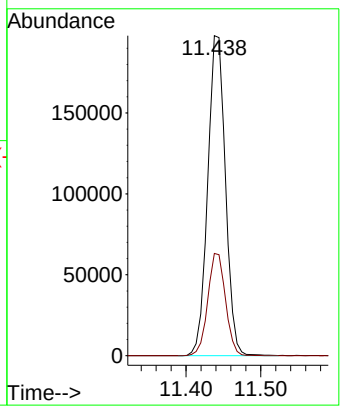




#65
Chlorobenzene
Concen: 21.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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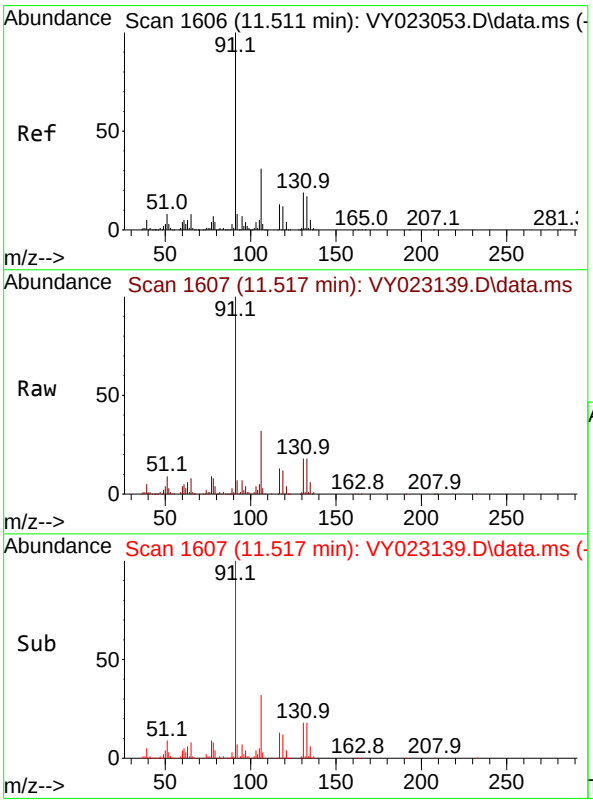
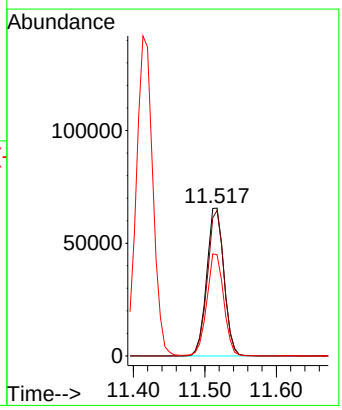
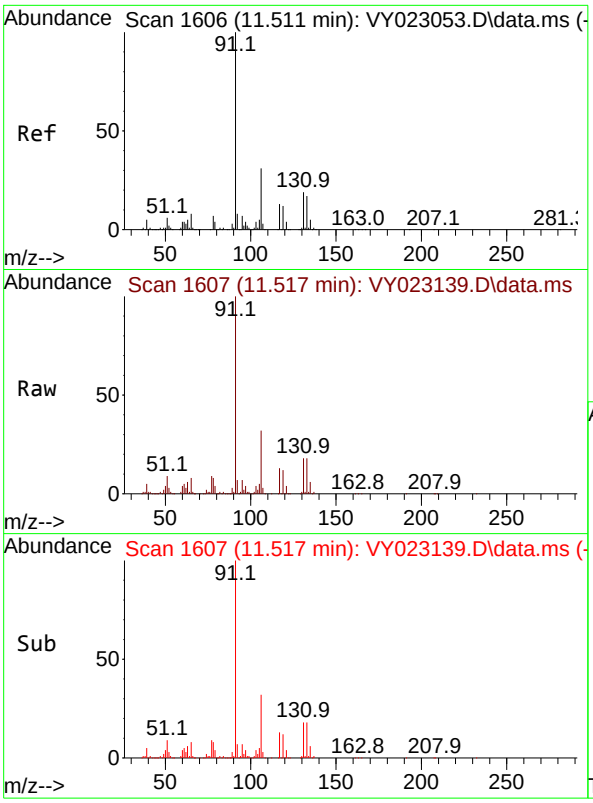


#66
1,1,1,2-Tetrachloroethane
Concen: 21.199 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

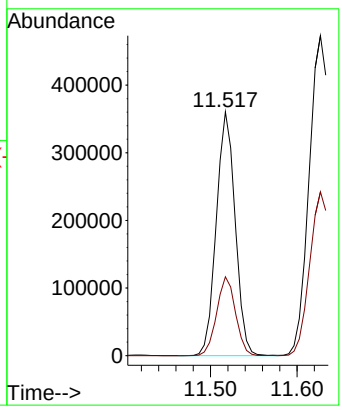




#67
Ethyl Benzene
Concen: 20.767 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 54517

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.0	37.4



Instrument :
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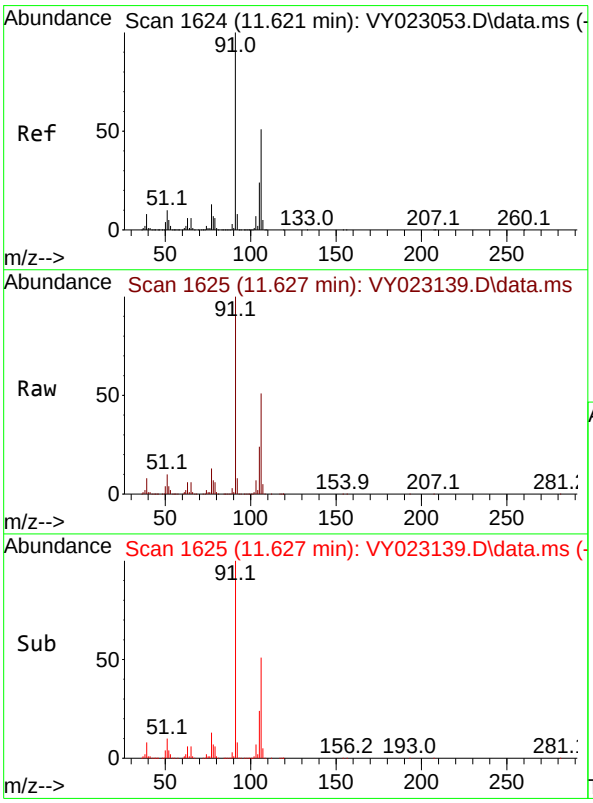
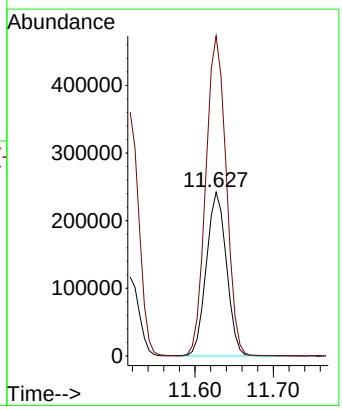
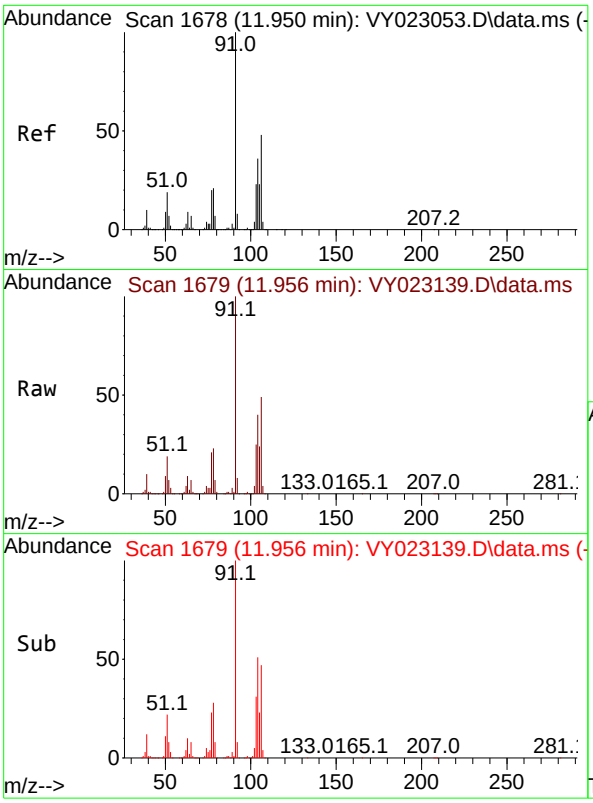


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 430120

Ion	Ratio	Lower	Upper
106	100		
91	198.8	158.6	238.0

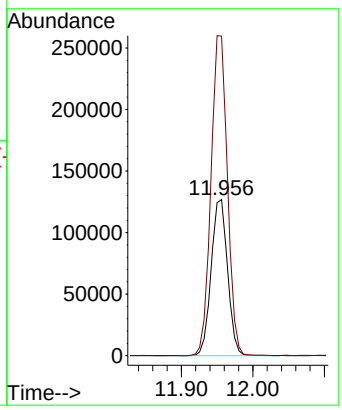




#69
o-Xylene
Concen: 21.020 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 20184

Ion	Ratio	Lower	Upper
106	100		
91	206.0	103.2	309.4



Instrument :
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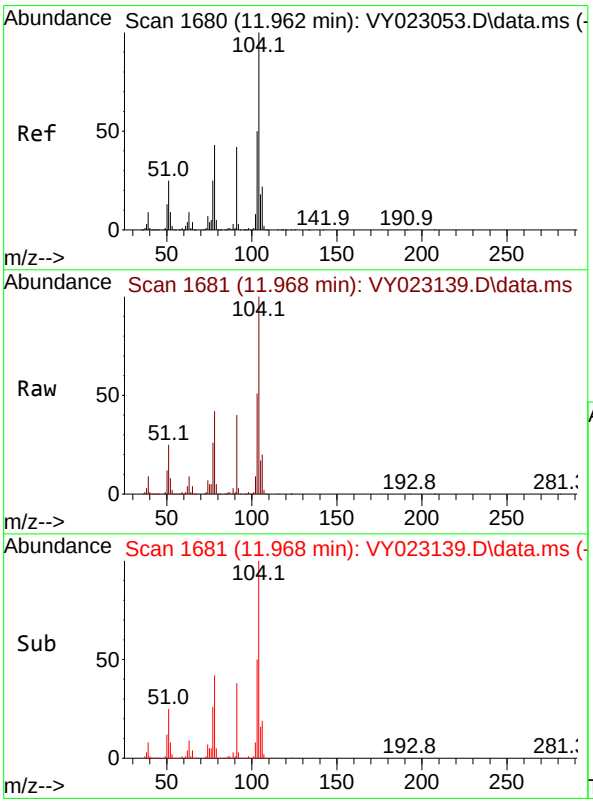
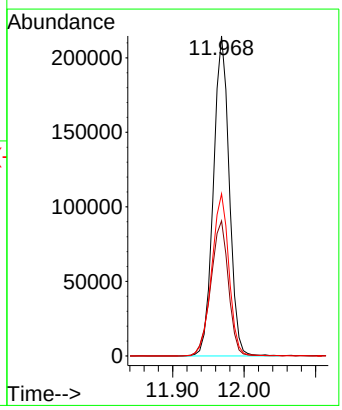
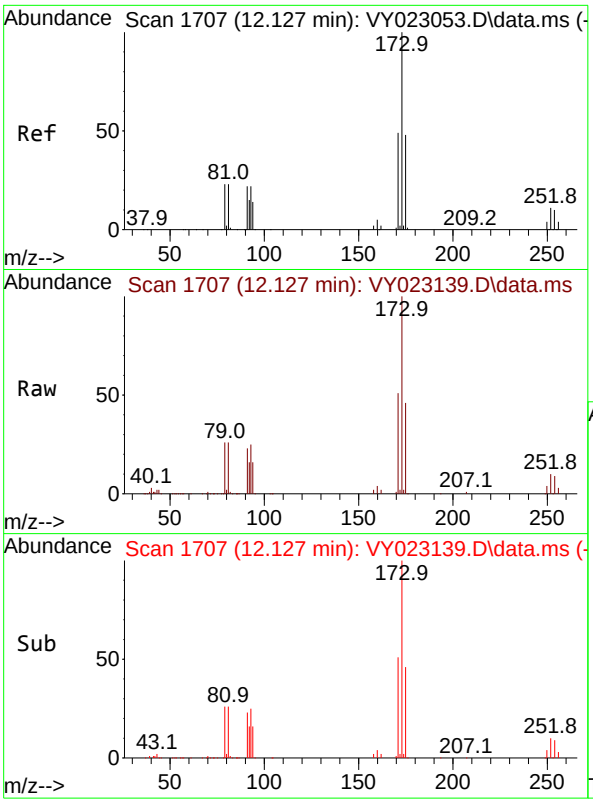


#70
Styrene
Concen: 21.028 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

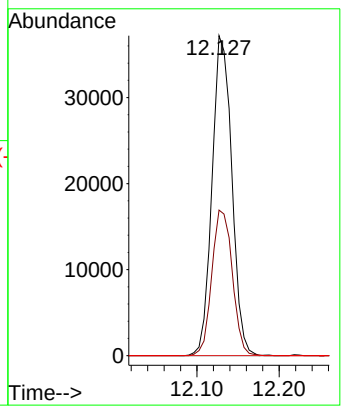




#71
Bromoform
Concen: 20.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
VY0819SBS01

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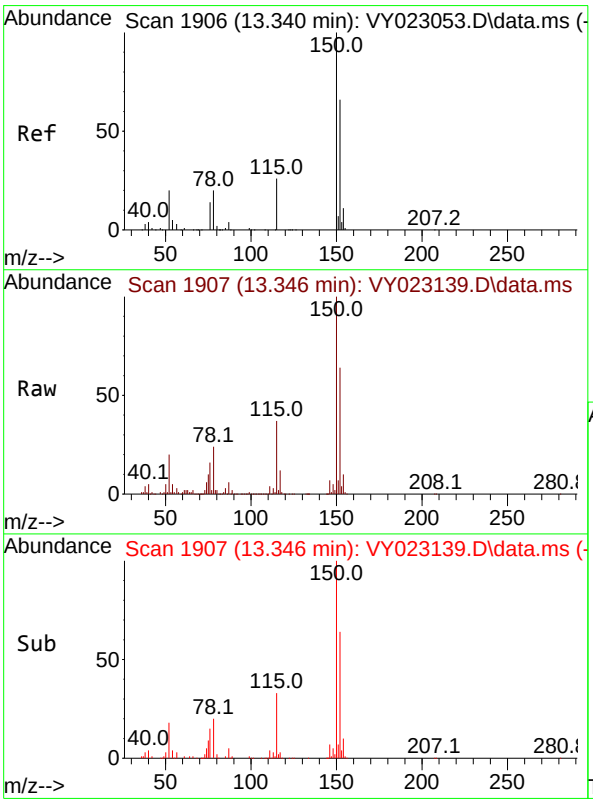
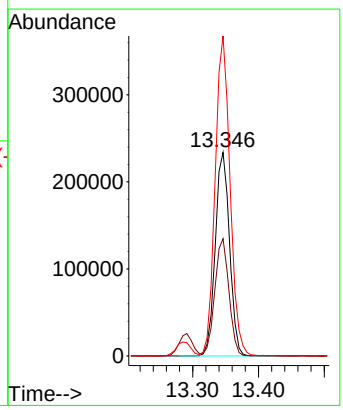
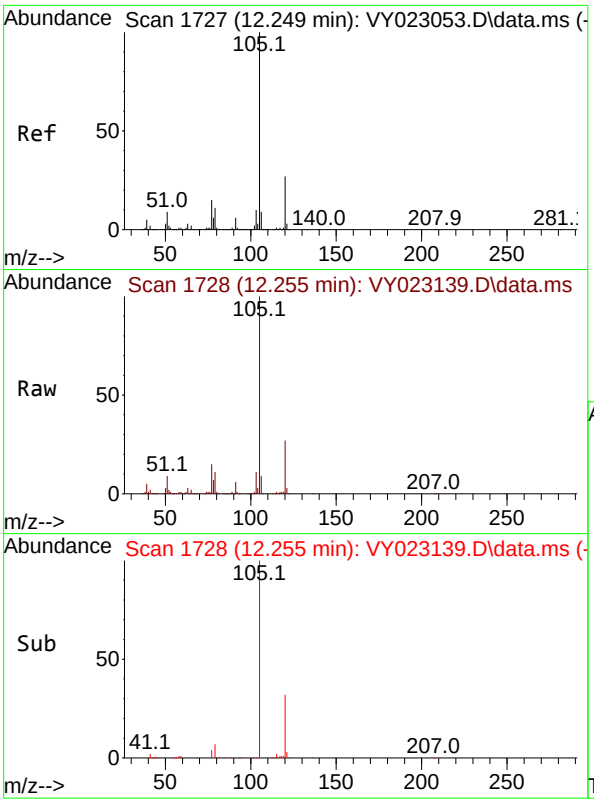


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

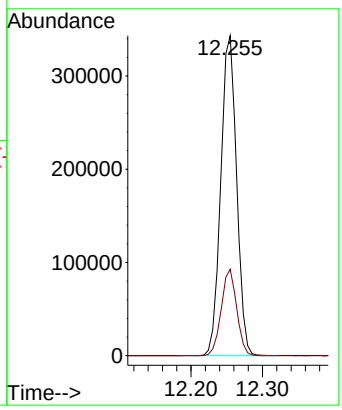




#73
Isopropylbenzene
Concen: 21.185 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 52738

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.4	40.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

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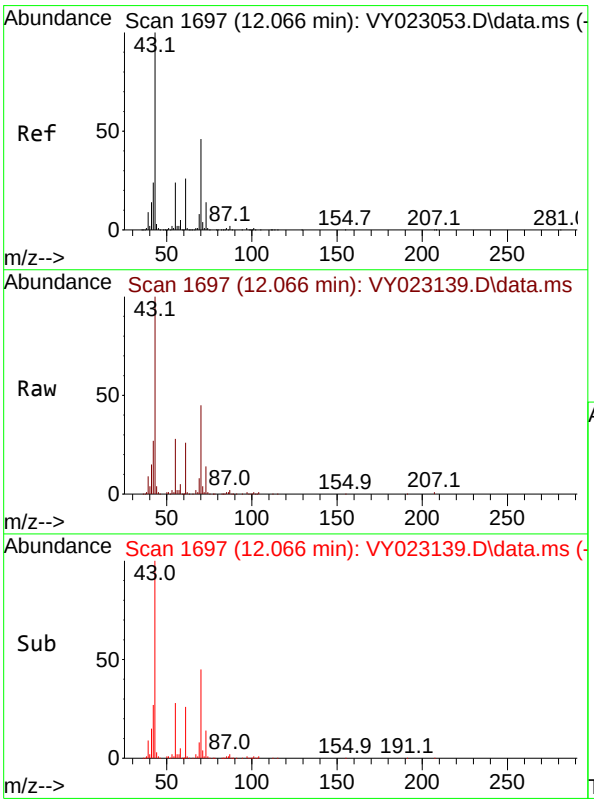
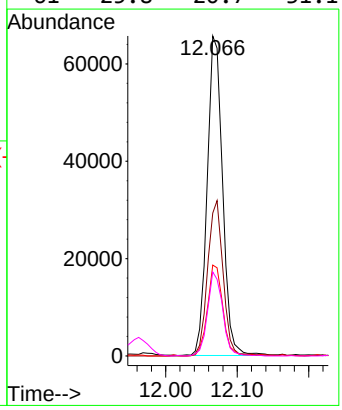
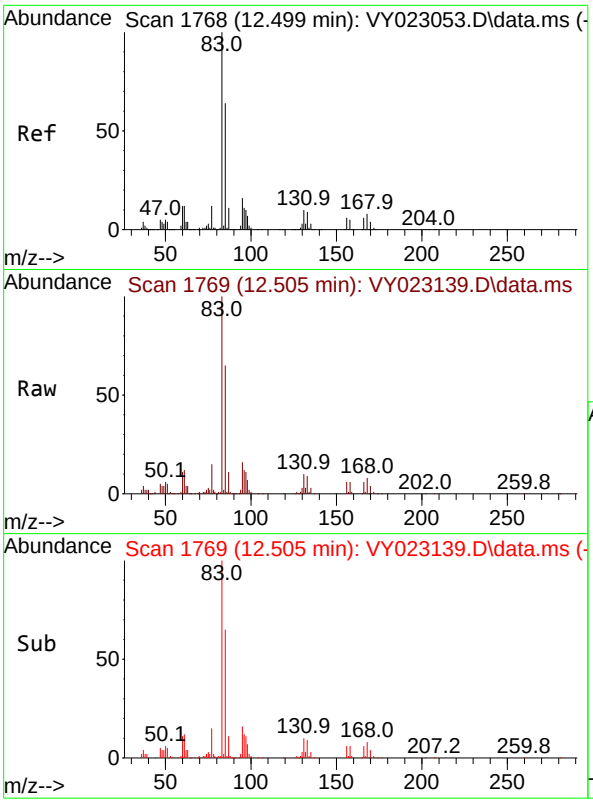


#74
N-amyl acetate
Concen: 18.632 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
VY0819SBS01

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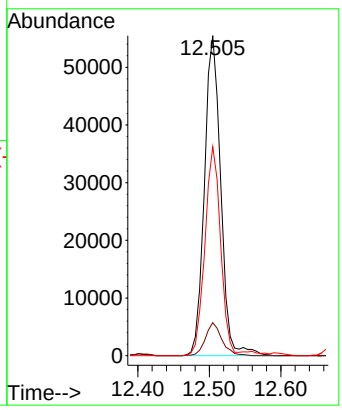
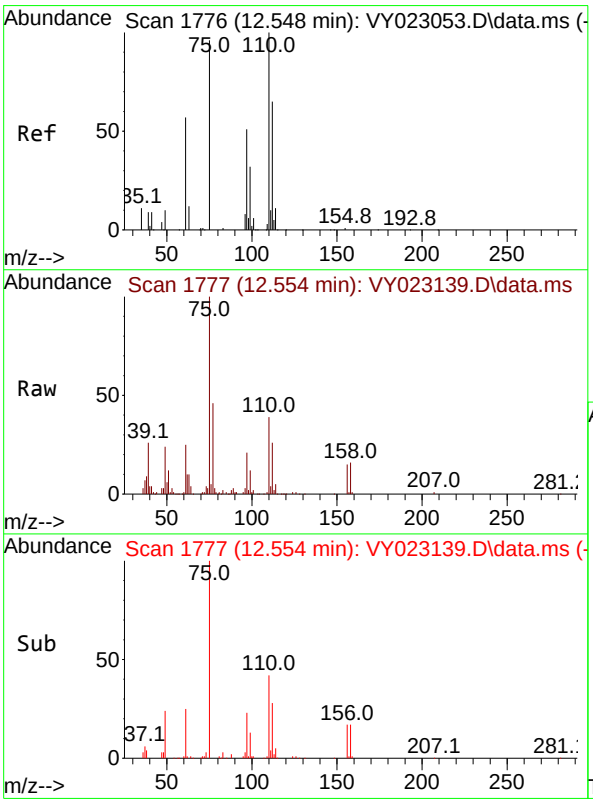
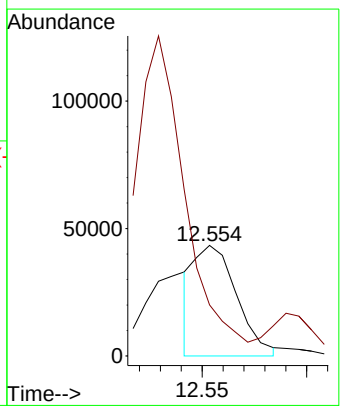


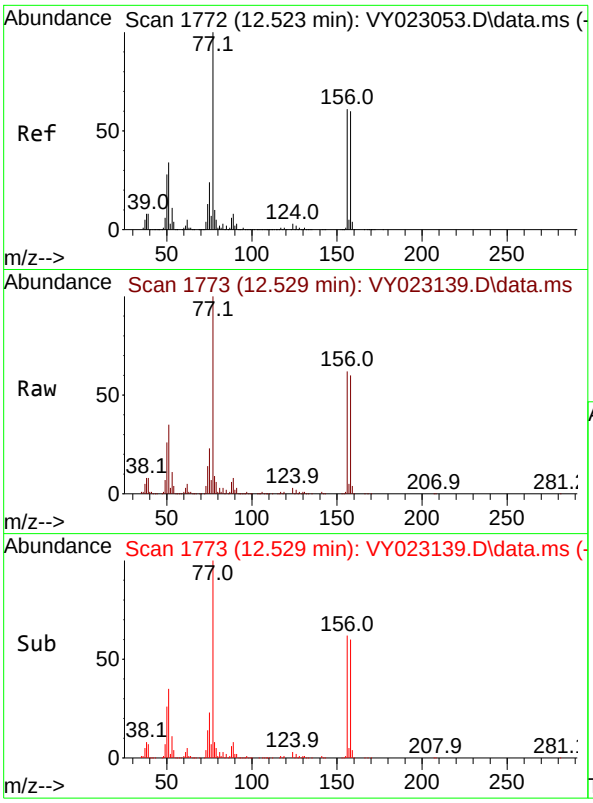


#76
1,2,3-Trichloropropane
Concen: 18.095 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 61598

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

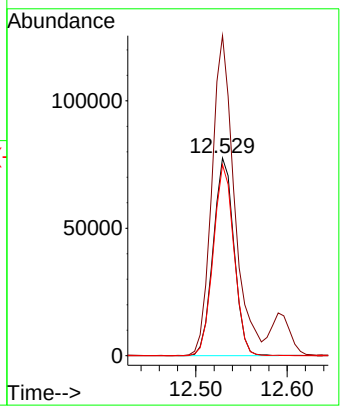




#77
Bromobenzene
Concen: 20.592 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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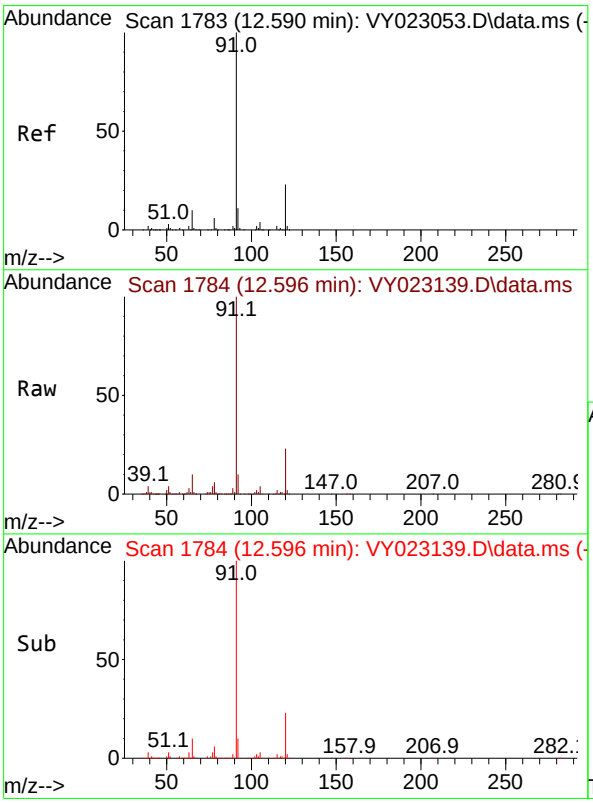
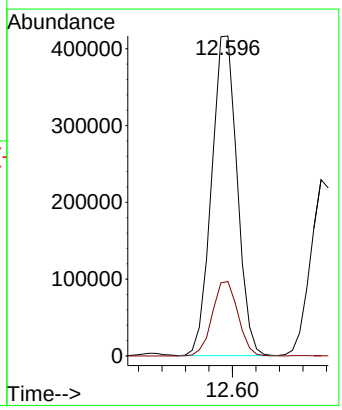
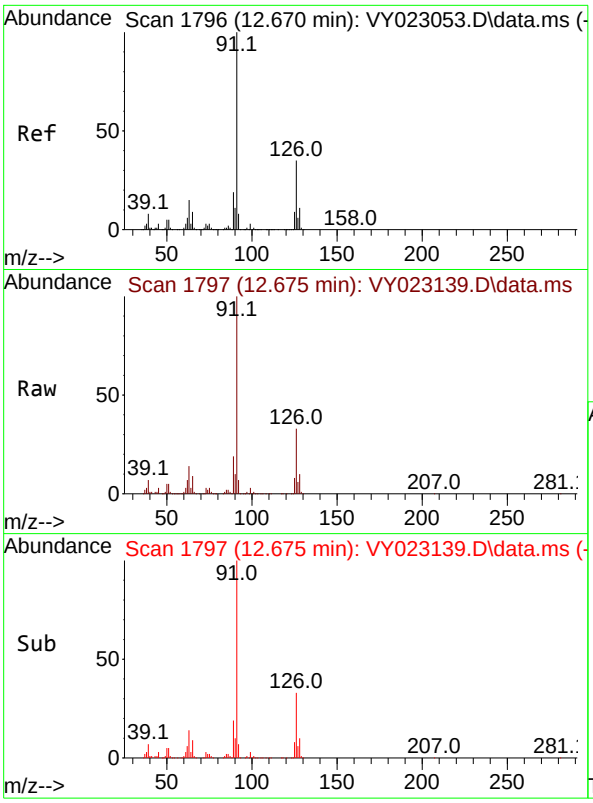


#78
n-propylbenzene
Concen: 21.255 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 629976

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.5	34.5

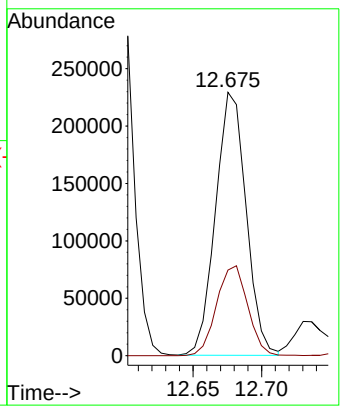




#79
2-Chlorotoluene
Concen: 20.990 ug/l
RT: 12.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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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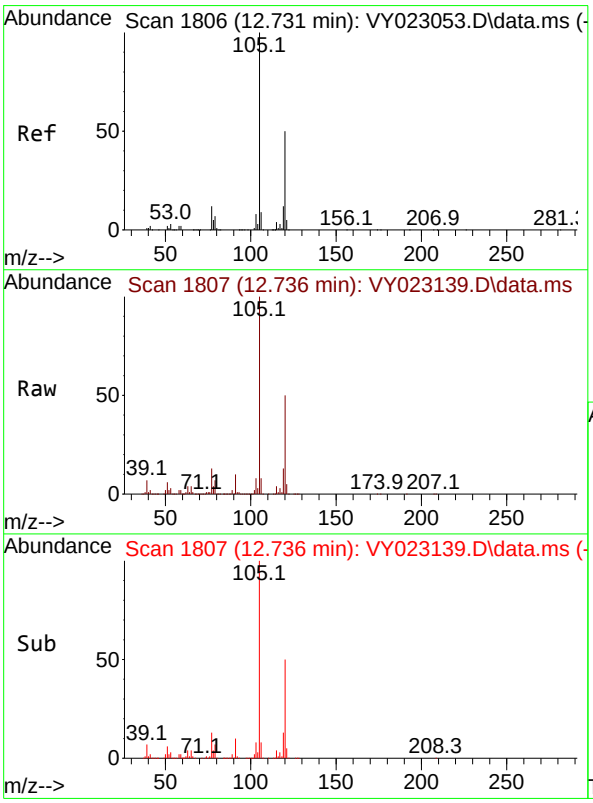
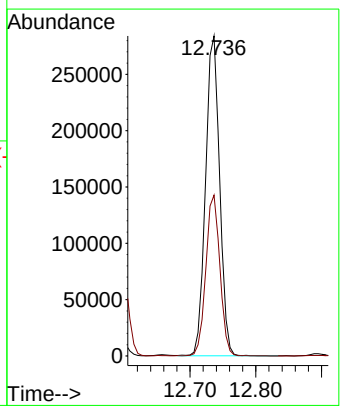
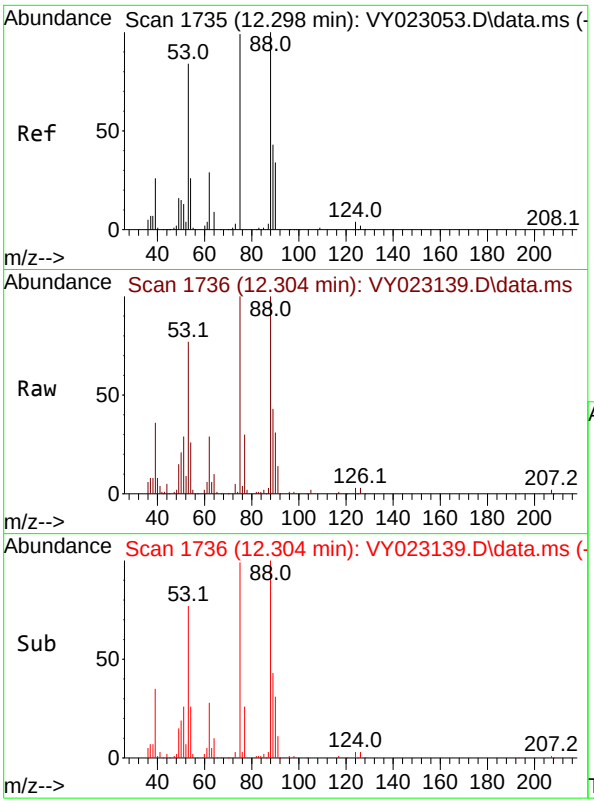


#80
1,3,5-Trimethylbenzene
Concen: 21.022 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 422945

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4

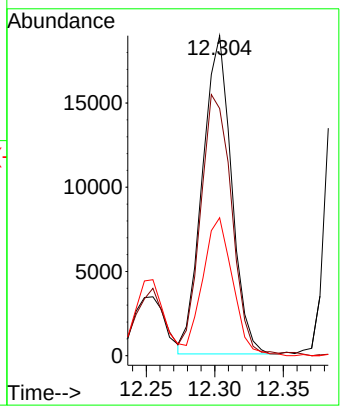




#81
trans-1,4-Dichloro-2-butene
Concen: 19.838 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
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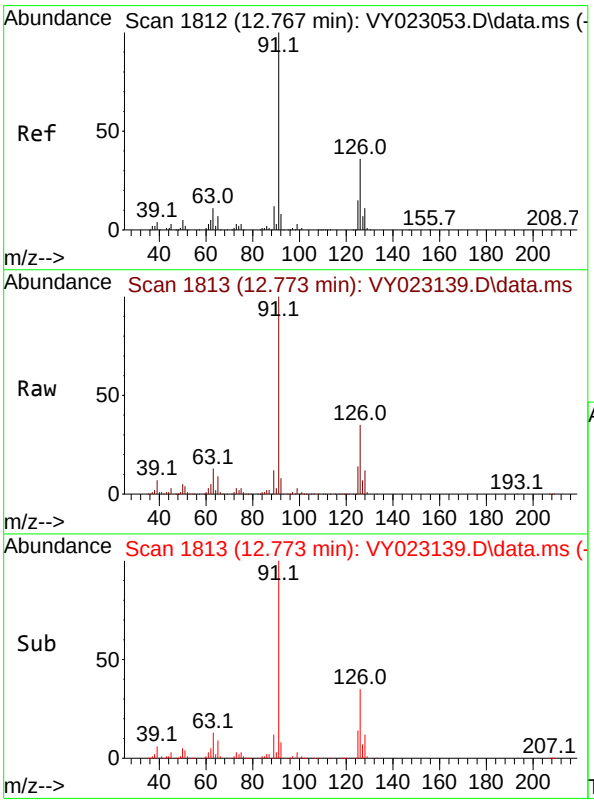
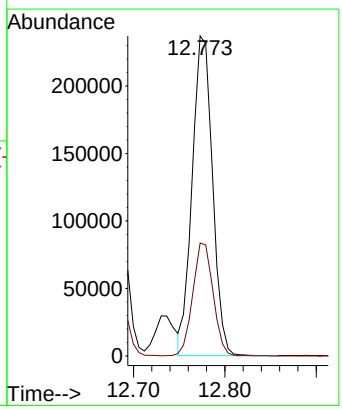
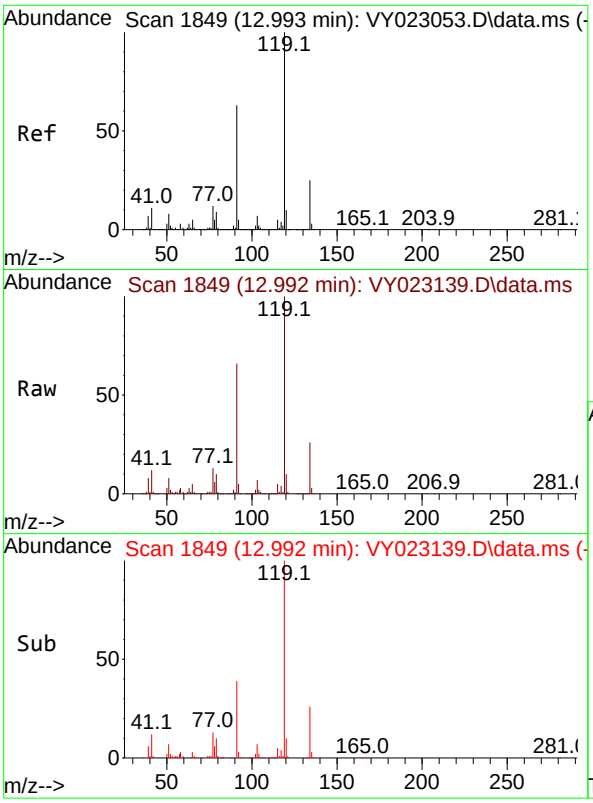


#82
4-Chlorotoluene
Concen: 20.803 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 366476

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.3	52.0

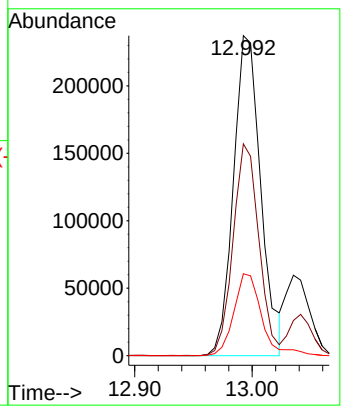




#83
tert-Butylbenzene
Concen: 21.122 ug/l
RT: 12.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:119 Resp: 38381

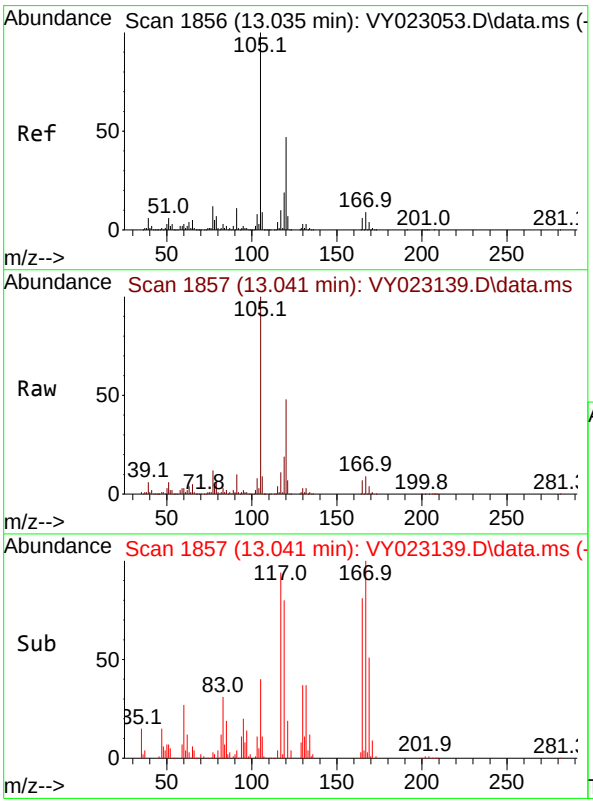
Ion	Ratio	Lower	Upper
119	100		
91	62.5	31.6	94.8
134	26.1	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
APPROVED

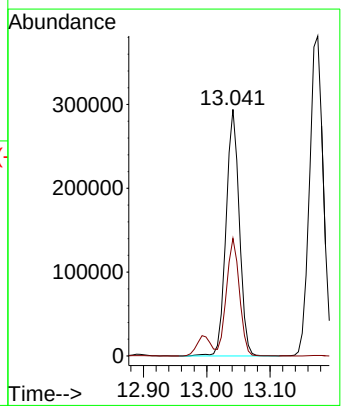
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

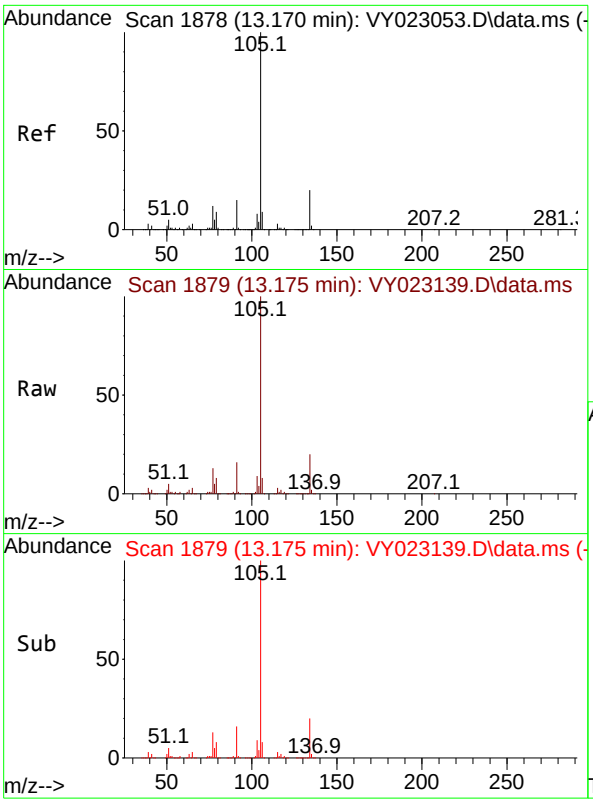


#84
1,2,4-Trimethylbenzene
Concen: 21.298 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 426567

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0

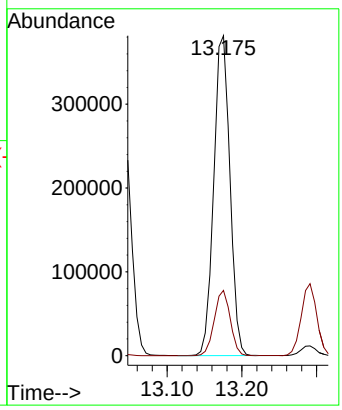




#85
sec-Butylbenzene
Concen: 21.463 ug/l
RT: 13.175 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 57291

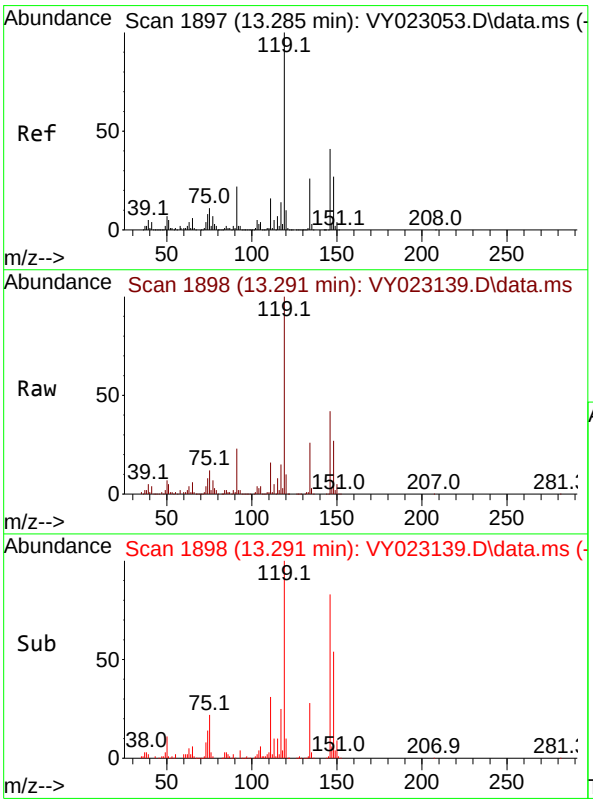
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
APPROVED

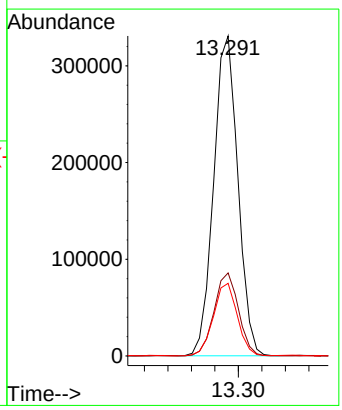
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

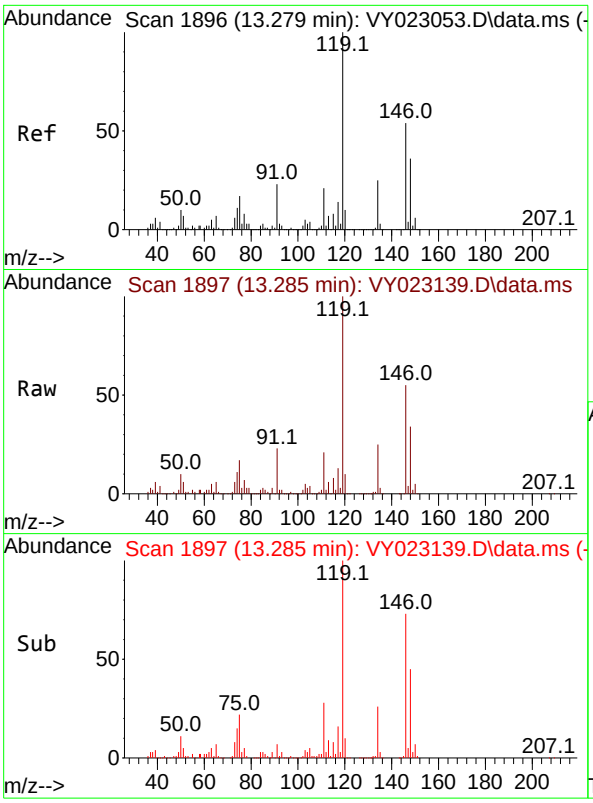


#86
p-Isopropyltoluene
Concen: 21.375 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

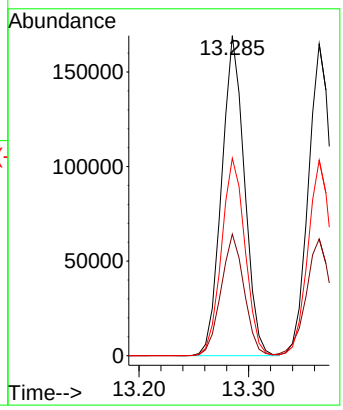




#87
1,3-Dichlorobenzene
Concen: 20.938 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

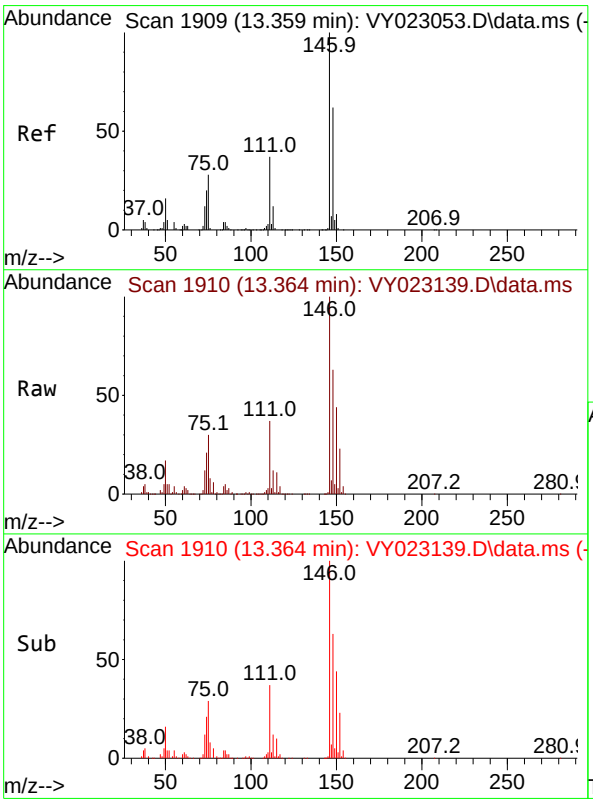
Tgt Ion:146 Resp: 24522

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.6	58.7
148	63.6	32.5	97.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

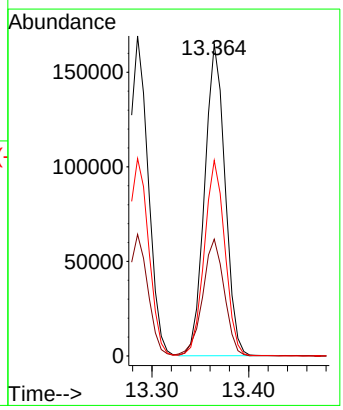
Manual Integrations
APPROVED
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

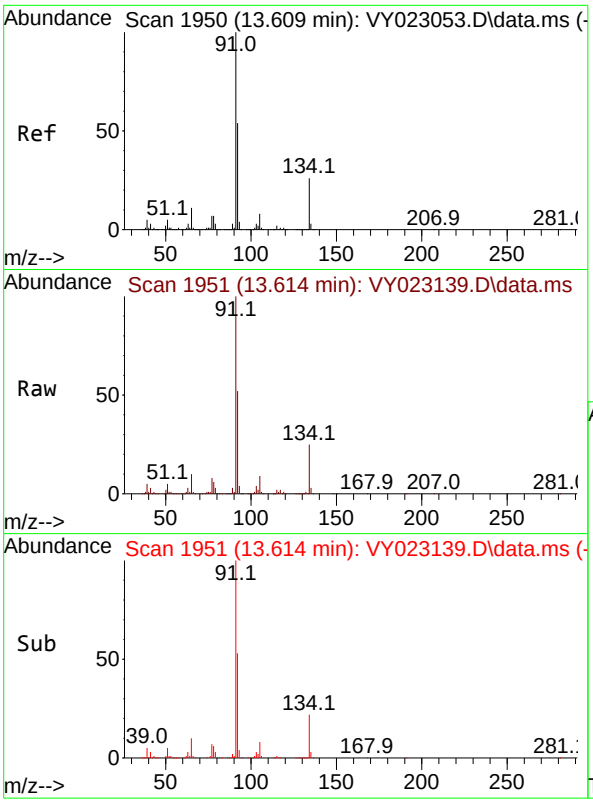


#88
1,4-Dichlorobenzene
Concen: 20.829 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

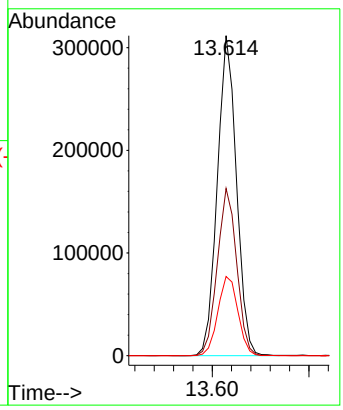




#89
n-Butylbenzene
Concen: 20.989 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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 :
VY0819SBS01

Manual Integrations
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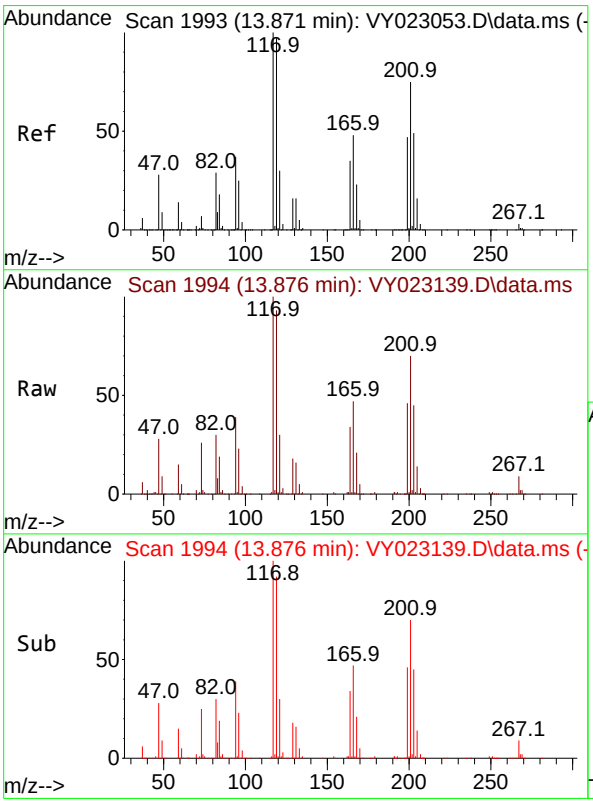
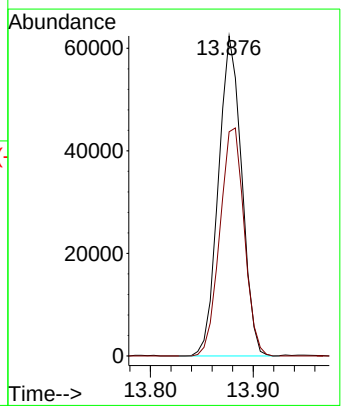
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

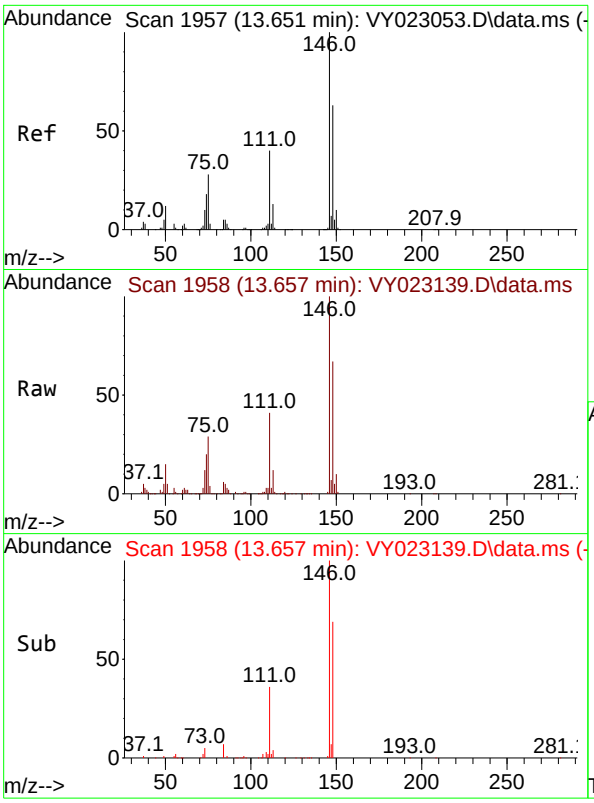


#90
Hexachloroethane
Concen: 21.595 ug/l
RT: 13.876 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 97949

Ion	Ratio	Lower	Upper
117	100		
201	74.7	38.4	115.1

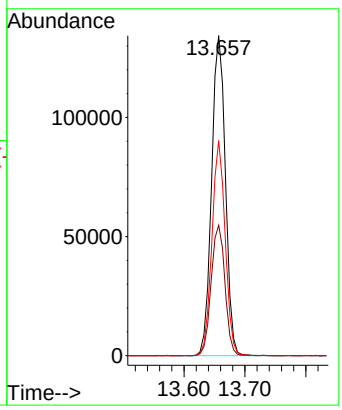




#91
1,2-Dichlorobenzene
Concen: 20.524 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

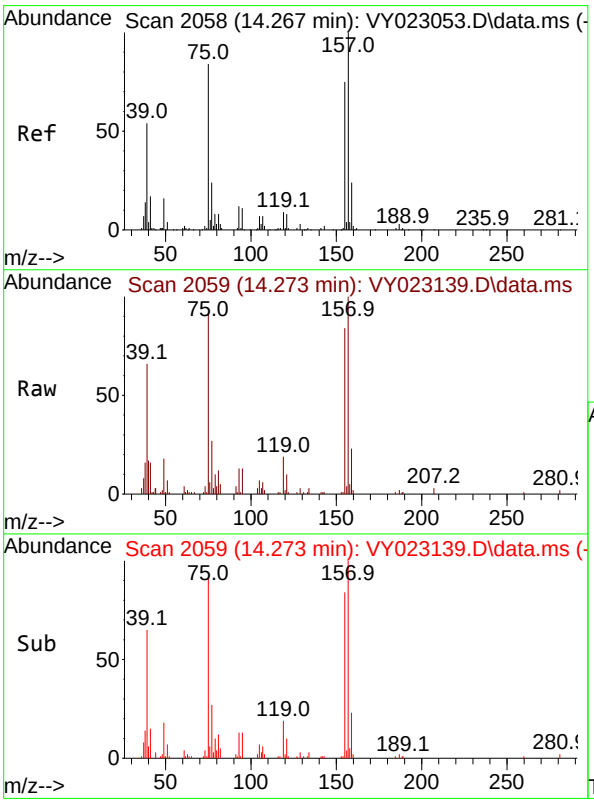
Tgt Ion:146 Resp: 21081

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

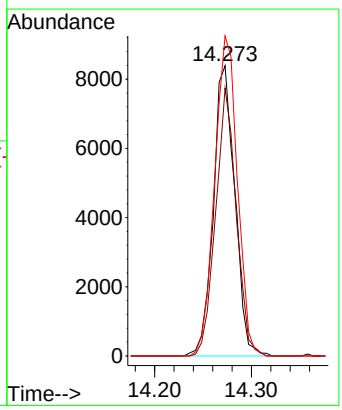
Manual Integrations
APPROVED
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

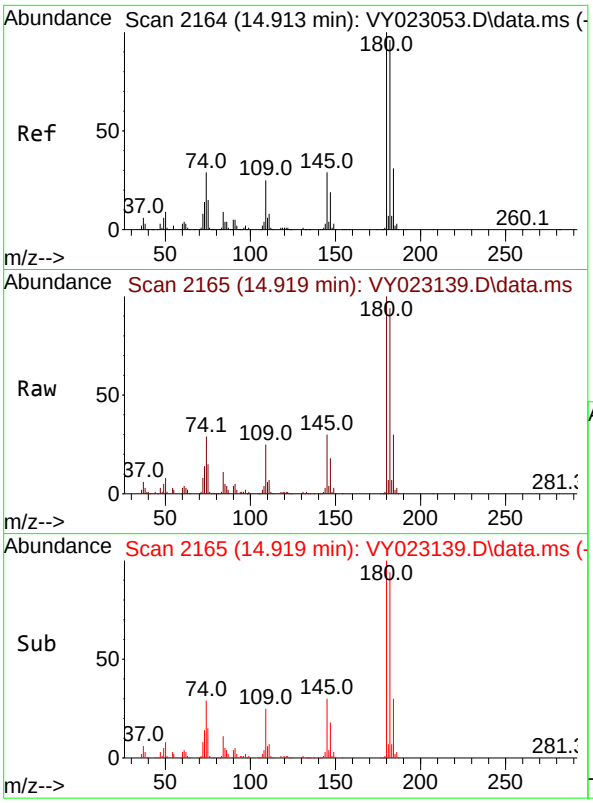


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.499 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

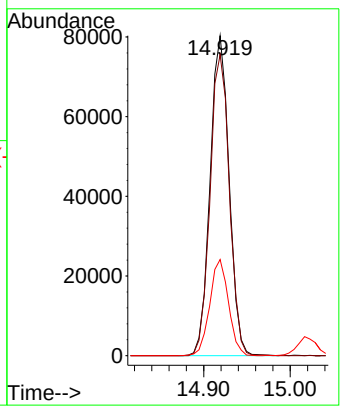




#93
1,2,4-Trichlorobenzene
Concen: 20.157 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:180 Resp: 12243

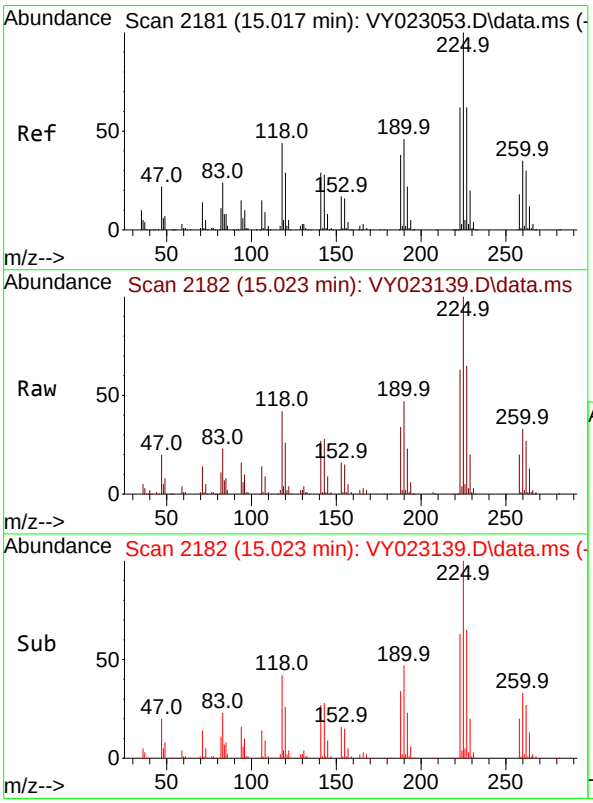
Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.8	140.4
145	29.7	14.4	43.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Manual Integrations
APPROVED

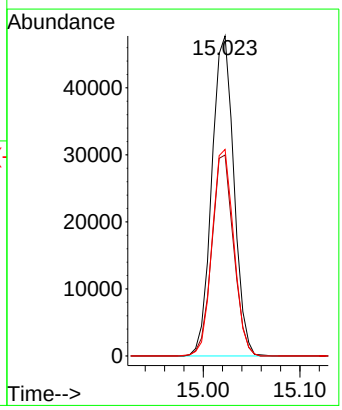
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

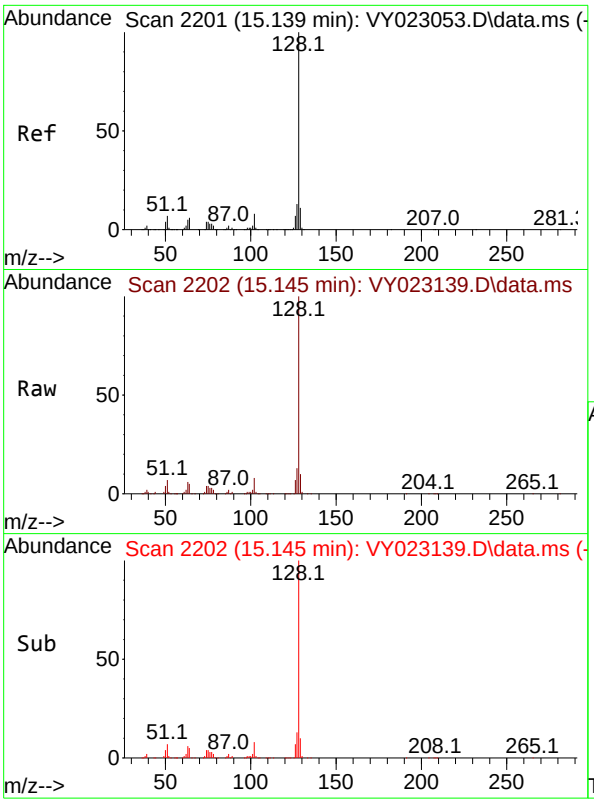


#94
Hexachlorobutadiene
Concen: 21.149 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

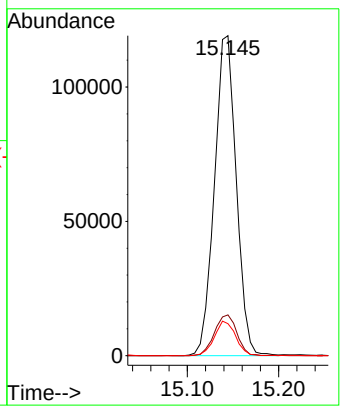




#95
Naphthalene
Concen: 19.124 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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
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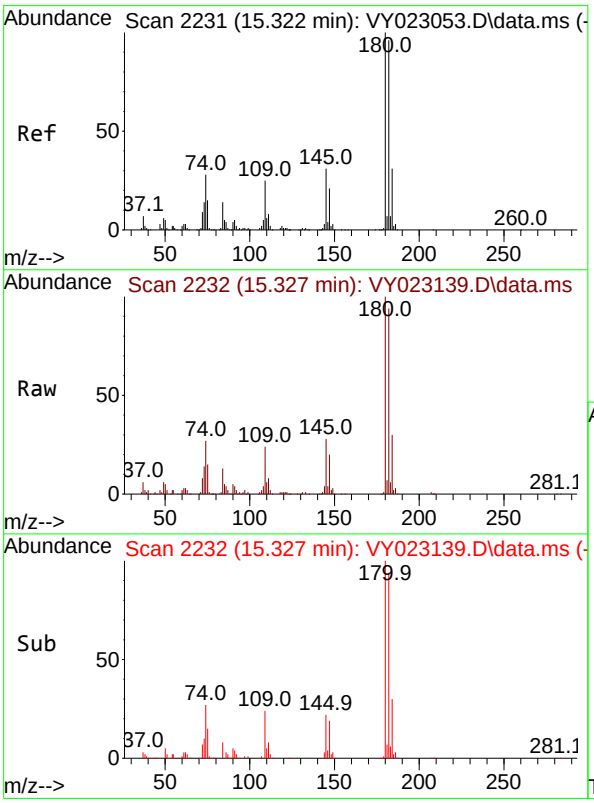
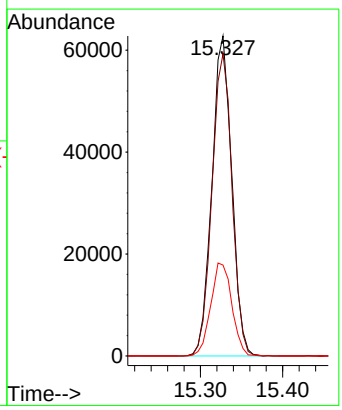
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



#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



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:	VW0811SBSD01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBSD01	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
VW032062.D	1	08/11/25 13:10	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	20.4		1.10	4.00	5.00	ug/Kg
74-87-3	Chloromethane	21.5		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	21.1		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	20.9		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	20.7		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	20.2		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	20.0		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.8		0.73	2.50	5.00	ug/Kg
79-20-9	Methyl Acetate	21.5		1.50	4.00	5.00	ug/Kg
75-09-2	Methylene Chloride	21.6		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.5		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.5		0.80	2.50	5.00	ug/Kg
110-82-7	Cyclohexane	20.1		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	19.8		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.8		0.75	2.50	5.00	ug/Kg
74-97-5	Bromochloromethane	20.0		1.20	4.00	5.00	ug/Kg
67-66-3	Chloroform	21.0		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.4		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.1		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.8		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.1		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.1		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.0		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	20.5		0.78	2.50	5.00	ug/Kg

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Report of Analysis

Client:	First Environment, Inc.	Date Collected:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0811SBSD01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBSD01	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
VW032062.D	1	08/11/25 13:10	VW081125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
10061-02-6	t-1,3-Dichloropropene	20.0		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.4		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	110		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	20.7		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	20.2		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.5		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.7		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	20.4		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	20.8		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	20.2		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.5		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.7		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		1.50	2.50	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		1.80	4.00	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	20.4		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	49.8		71 - 136		100%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		78 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	48.3		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		79 - 119		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	227000	7.959				
540-36-3	1,4-Difluorobenzene	442000	8.849				
3114-55-4	Chlorobenzene-d5	400000	11.635				
3855-82-1	1,4-Dichlorobenzene-d4	196000	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:	
Project:	USACE018-44 DOD	Date Received:	
Client Sample ID:	VW0811SBSD01	SDG No.:	Q2819
Lab Sample ID:	VW0811SBSD01	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
VW032062.D	1	08/11/25 13:10	VW081125

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\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 12 04:24:13 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 :
VW0811SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	226773	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	441696	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	400240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	195548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	163196	49.758	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 99.520%			
35) Dibromofluoromethane	7.904	113	134207	47.032	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.060%			
50) Toluene-d8	10.331	98	509734	48.296	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 96.600%			
62) 4-Bromofluorobenzene	12.617	95	193625	49.782	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	33141	20.433	ug/l	95
3) Chloromethane	2.253	50	46903	21.468	ug/l	96
4) Vinyl Chloride	2.405	62	54316	20.553	ug/l	95
5) Bromomethane	2.820	94	41922	21.144	ug/l	99
6) Chloroethane	2.972	64	36568	20.911	ug/l	100
7) Trichlorofluoromethane	3.308	101	43905	20.739	ug/l	93
8) Diethyl Ether	3.722	74	36629	21.118	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	49478	19.810	ug/l	99
10) Methyl Iodide	4.307	142	73761	20.829	ug/l	98
11) Tert butyl alcohol	5.222	59	22637	106.589	ug/l	98
12) 1,1-Dichloroethene	4.076	96	55617	20.223	ug/l	92
13) Acrolein	3.929	56	36383	107.518	ug/l	99
14) Allyl chloride	4.698	41	83613	20.889	ug/l	99
15) Acrylonitrile	5.405	53	88342	106.933	ug/l	99
16) Acetone	4.155	43	82994	109.296	ug/l	99
17) Carbon Disulfide	4.423	76	147711	20.010	ug/l	98
18) Methyl Acetate	4.710	43	51758	21.540	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	105734	21.820	ug/l	96
20) Methylene Chloride	4.947	84	75897	21.617	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	59755	20.474	ug/l	93
22) Diisopropyl ether	6.337	45	181364	21.493	ug/l	92
23) Vinyl Acetate	6.283	43	596458	107.662	ug/l	99
24) 1,1-Dichloroethane	6.246	63	110715	20.536	ug/l	98
25) 2-Butanone	7.191	43	119355	110.592	ug/l	100
26) 2,2-Dichloropropane	7.191	77	57308	21.188	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	71058	20.829	ug/l	99
28) Bromochloromethane	7.532	49	49164	20.039	ug/l	99
29) Tetrahydrofuran	7.557	42	77560	108.972	ug/l	100
30) Chloroform	7.691	83	119914	20.980	ug/l	97
31) Cyclohexane	7.971	56	94081	20.129	ug/l	95
32) 1,1,1-Trichloroethane	7.886	97	84762	20.417	ug/l	98
36) 1,1-Dichloropropene	8.099	75	79280	19.708	ug/l	99
37) Ethyl Acetate	7.276	43	48057	20.284	ug/l	98
38) Carbon Tetrachloride	8.087	117	76962	19.825	ug/l	88
39) Methylcyclohexane	9.343	83	98634	20.117	ug/l	95
40) Benzene	8.337	78	252942	20.229	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 12 04:24:13 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 :
VW0811SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	27124	20.188	ug/l		93
42) 1,2-Dichloroethane	8.416	62	83160	20.784	ug/l		99
43) Isopropyl Acetate	8.435	43	88890	20.393	ug/l		100
44) Trichloroethene	9.105	130	59840	20.095	ug/l		97
45) 1,2-Dichloropropane	9.373	63	60825	20.135	ug/l		95
46) Dibromomethane	9.465	93	39289	20.151	ug/l		98
47) Bromodichloromethane	9.654	83	89761	19.980	ug/l		96
48) Methyl methacrylate	9.441	41	43222	20.539	ug/l		99
49) 1,4-Dioxane	9.465	88	10586	419.936	ug/l		87
51) 4-Methyl-2-Pentanone	10.215	43	257970	104.852	ug/l		100
52) Toluene	10.392	92	161185	20.465	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	84143	19.991	ug/l		99
54) cis-1,3-Dichloropropene	10.081	75	97621	20.444	ug/l		99
55) 1,1,2-Trichloroethane	10.788	97	53687	20.722	ug/l		97
56) Ethyl methacrylate	10.648	69	72299	20.854	ug/l		97
57) 1,3-Dichloropropane	10.934	76	90595	20.061	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	192035	100.139	ug/l		99
59) 2-Hexanone	10.971	43	180946	106.193	ug/l		100
60) Dibromochloromethane	11.129	129	59430	20.081	ug/l		100
61) 1,2-Dibromoethane	11.233	107	52100	20.693	ug/l		99
64) Tetrachloroethene	10.867	164	47470	20.534	ug/l		91
65) Chlorobenzene	11.660	112	176392	20.247	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.733	131	54330	19.988	ug/l		96
67) Ethyl Benzene	11.727	91	302504	20.500	ug/l		97
68) m/p-Xylenes	11.836	106	231893	40.725	ug/l		96
69) o-Xylene	12.166	106	107543	20.434	ug/l		99
70) Styrene	12.178	104	194078	20.761	ug/l		100
71) Bromoform	12.349	173	31350	20.163	ug/l	#	99
73) Isopropylbenzene	12.464	105	266409	19.494	ug/l		99
74) N-amyl acetate	12.269	43	79492	20.275	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	66644	20.539	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	57672m	21.730	ug/l		
77) Bromobenzene	12.745	156	67682	20.736	ug/l		97
78) n-propylbenzene	12.800	91	340328	20.228	ug/l		100
79) 2-Chlorotoluene	12.891	91	209148	20.142	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	234936	20.250	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	19731	19.247	ug/l		92
82) 4-Chlorotoluene	12.989	91	220054	19.946	ug/l		98
83) tert-Butylbenzene	13.202	119	194628	20.213	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	247687	20.972	ug/l		99
85) sec-Butylbenzene	13.379	105	295479	20.297	ug/l		98
86) p-Isopropyltoluene	13.495	119	247079	20.359	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	134680	20.737	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	136123	20.740	ug/l		98
89) n-Butylbenzene	13.818	91	235344	19.961	ug/l		99
90) Hexachloroethane	14.086	117	41787	18.827	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	122421	20.808	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	11304	19.597	ug/l		99
93) 1,2,4-Trichlorobenzene	15.122	180	71854	20.416	ug/l		95
94) Hexachlorobutadiene	15.226	225	30590	19.444	ug/l		99
95) Naphthalene	15.360	128	174401	20.223	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	65985	20.606	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:24:13 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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 12 04:24:13 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 :
VW0811SBSD01

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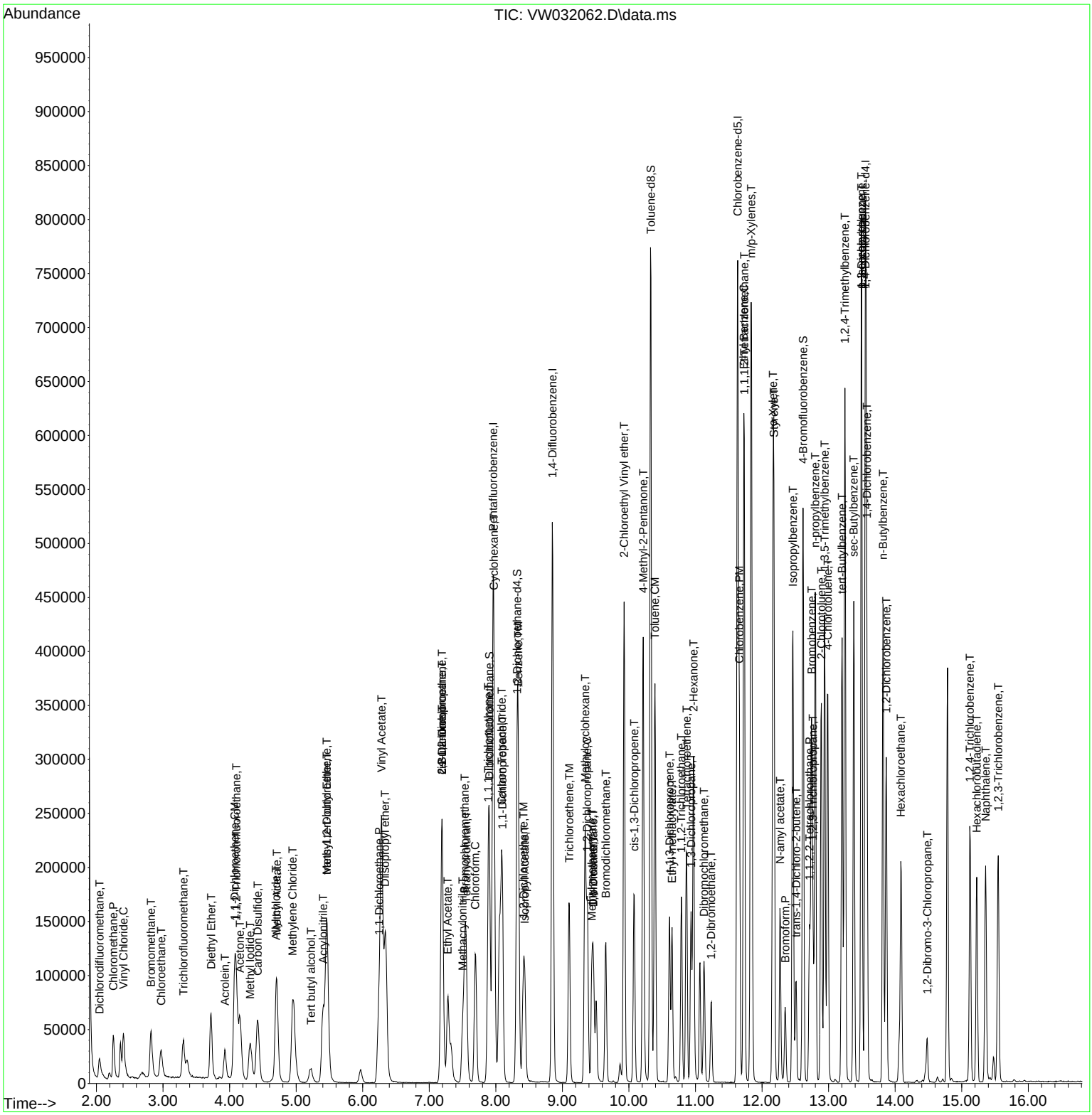
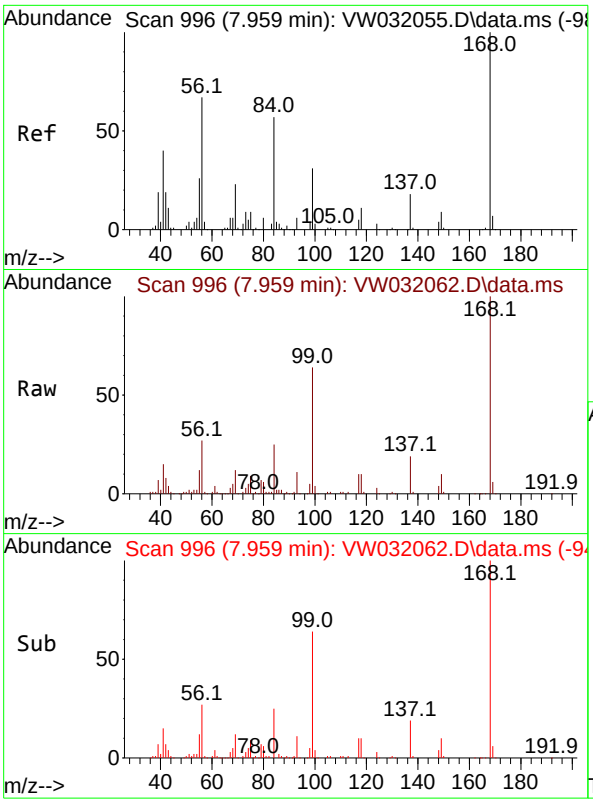
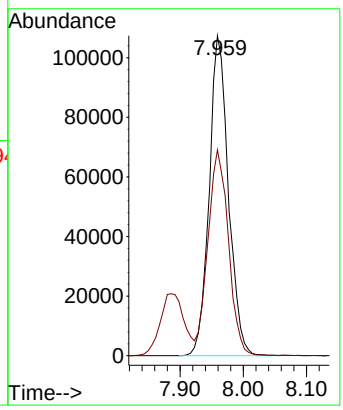




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:168 Resp: 22677

Ion	Ratio	Lower	Upper
168	100		
99	64.2	56.0	84.0



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
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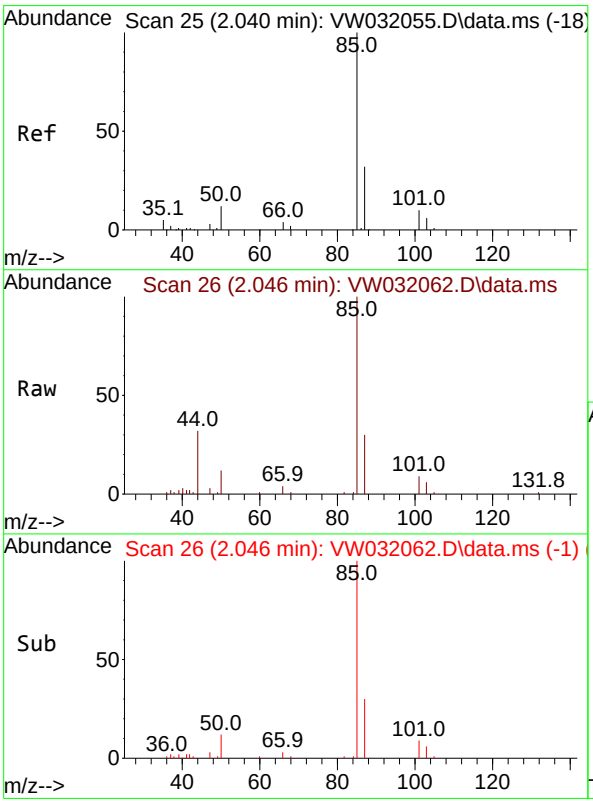
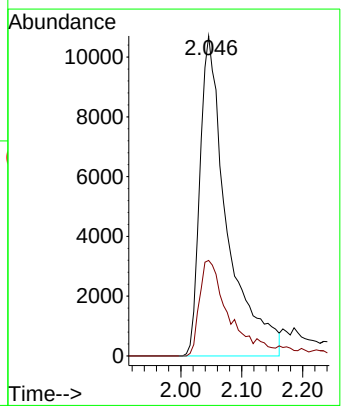
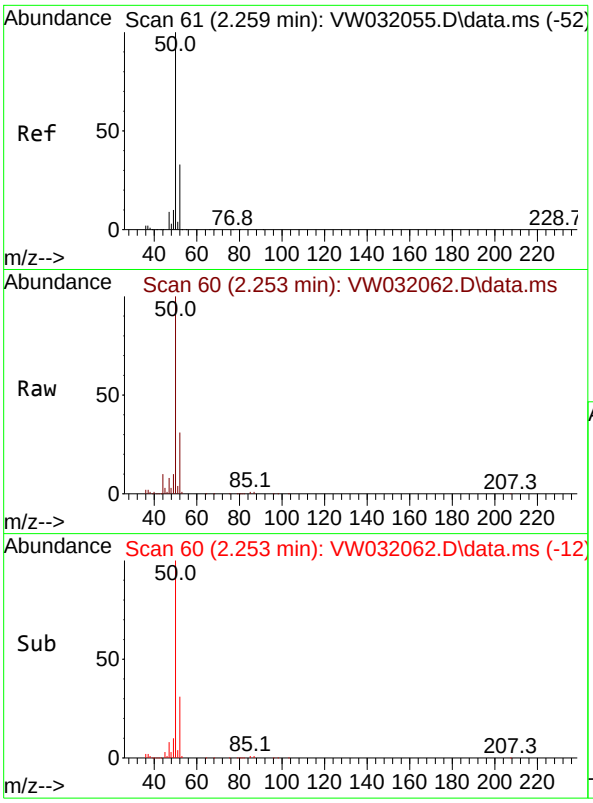


#2
Dichlorodifluoromethane
Concen: 20.433 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 85 Resp: 33141

Ion	Ratio	Lower	Upper
85	100		
87	29.9	16.2	48.6





#3
Chloromethane
Concen: 21.468 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 50 Resp: 4690

Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.6	39.8

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
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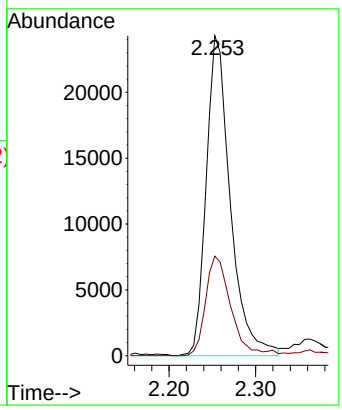
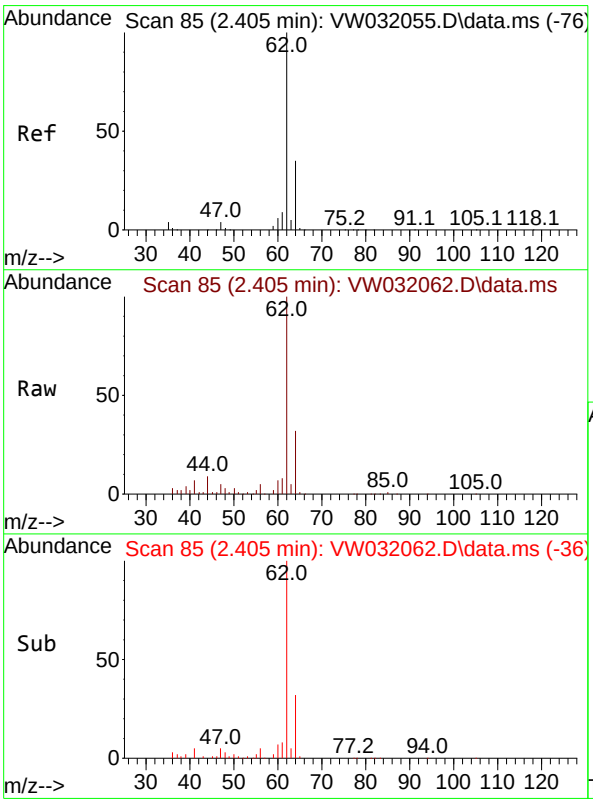
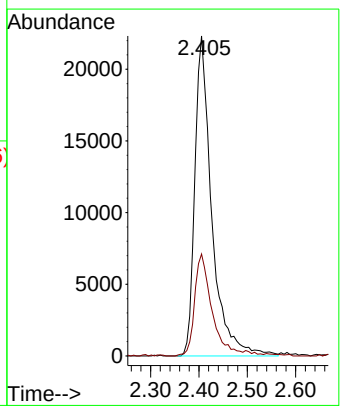


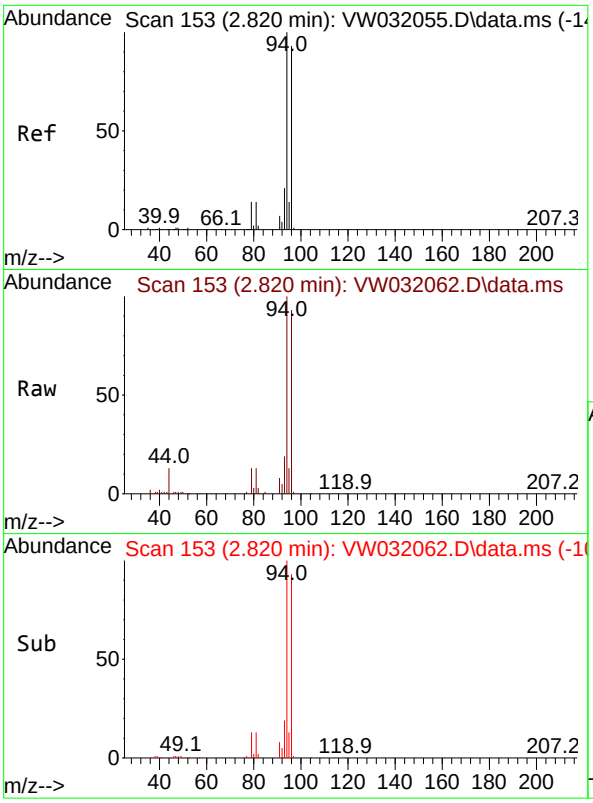


#4
Vinyl Chloride
Concen: 20.553 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 54316

Ion	Ratio	Lower	Upper
62	100		
64	31.5	27.8	41.6

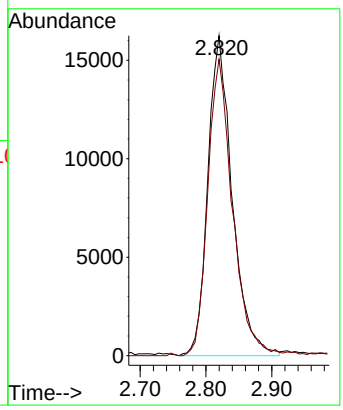




#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 94 Resp: 4192

Ion	Ratio	Lower	Upper
94	100		
96	92.6	74.7	112.1



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
APPROVED

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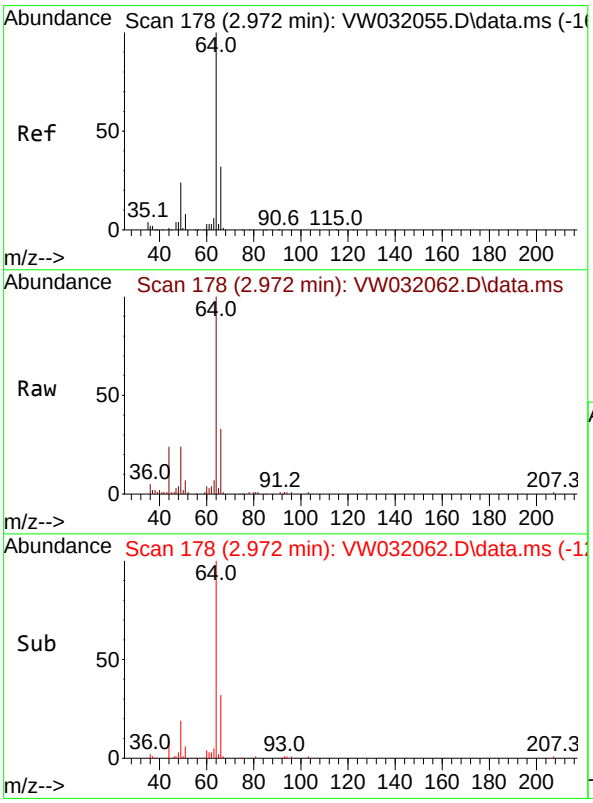
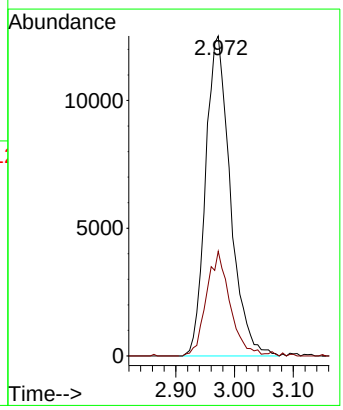
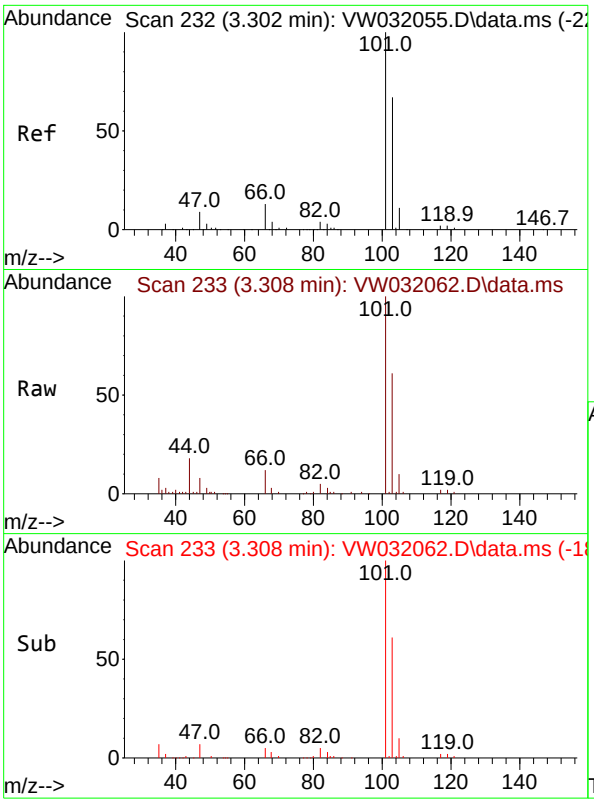


#6
Chloroethane
Concen: 20.911 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 64 Resp: 36568

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0

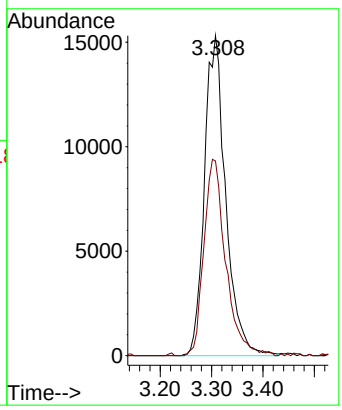




#7
Trichlorofluoromethane
Concen: 20.739 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:101 Resp: 4390

Ion	Ratio	Lower	Upper
101	100		
103	60.8	53.4	80.0



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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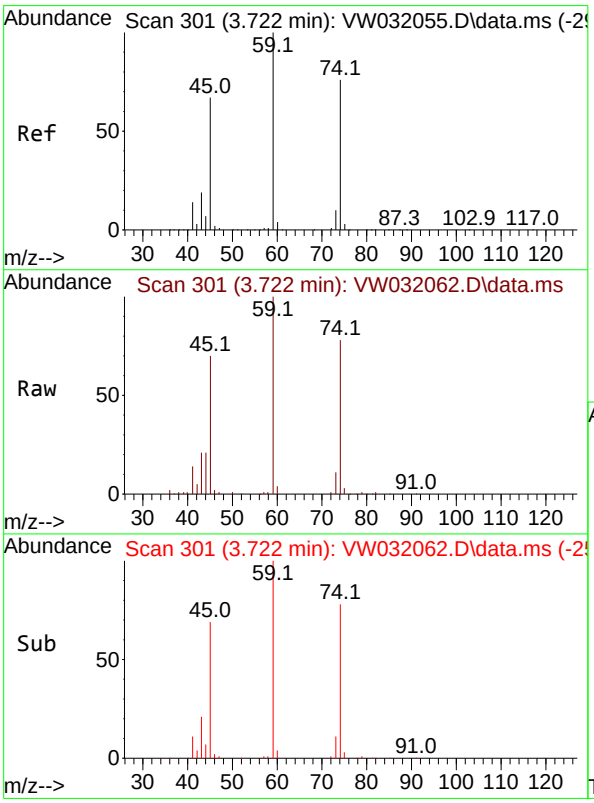
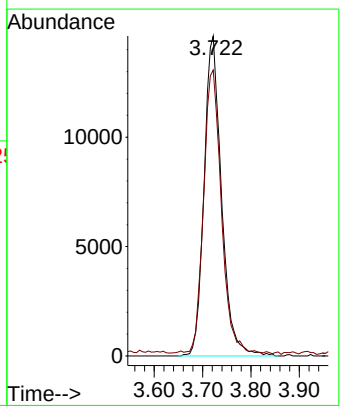
Supervised By :Semsettin Yesilyurt 08/12/2025

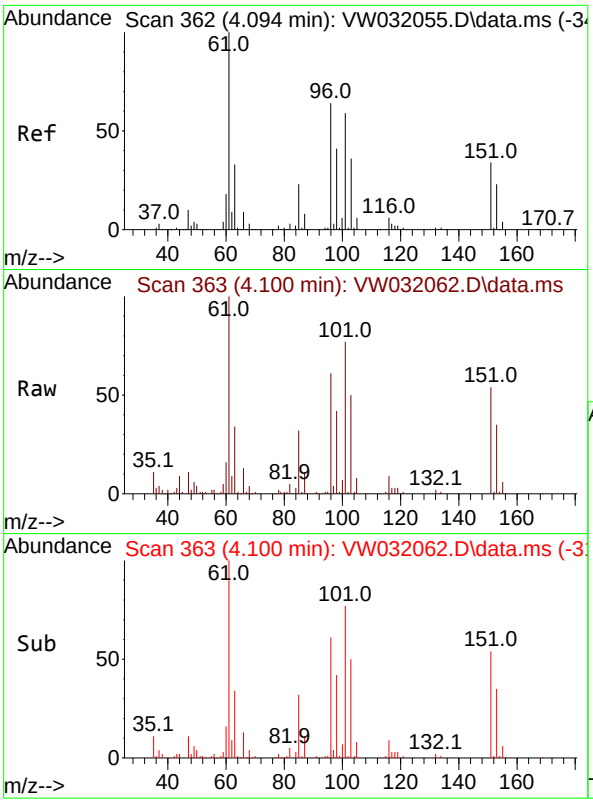


#8
Diethyl Ether
Concen: 21.118 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 74 Resp: 36629

Ion	Ratio	Lower	Upper
74	100		
45	89.2	45.4	136.2

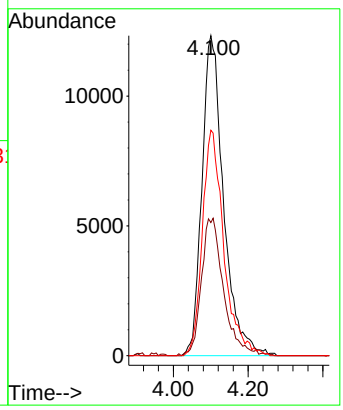




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.810 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:101 Resp: 4947

Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.9	52.3
151	70.0	56.2	84.4



Instrument :
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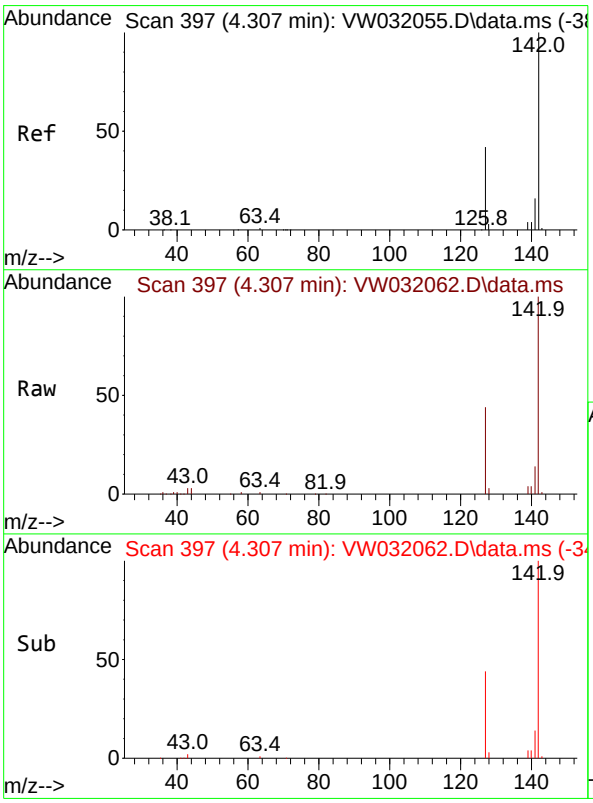
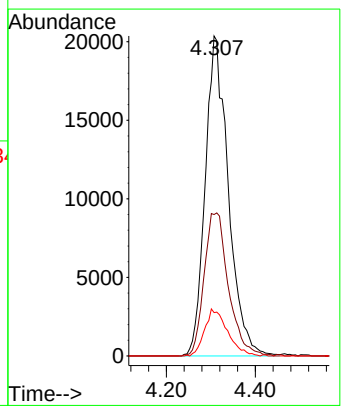
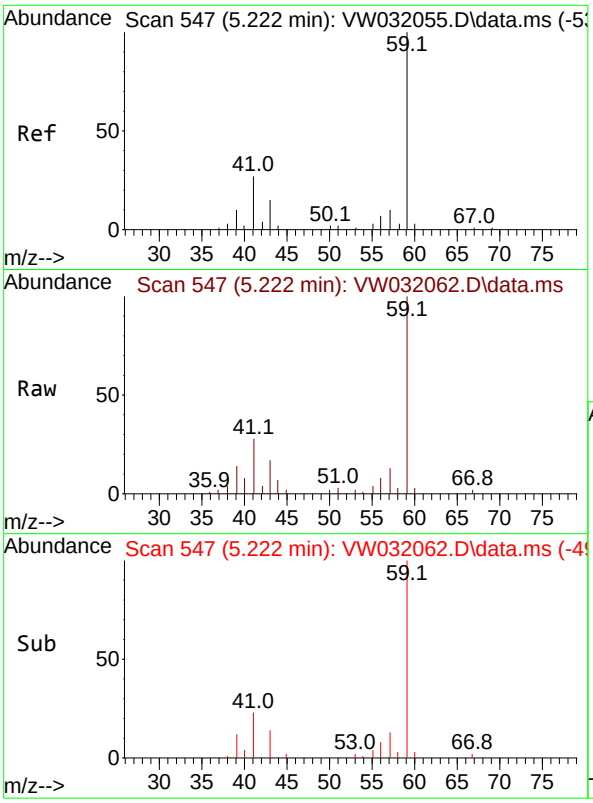


#10
Methyl Iodide
Concen: 20.829 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:142 Resp: 73761

Ion	Ratio	Lower	Upper
142	100		
127	47.0	36.6	55.0
141	14.5	12.1	18.1

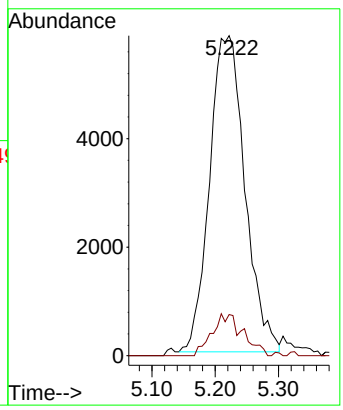




#11
Tert butyl alcohol
Concen: 106.589 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 59 Resp: 2263

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.7	13.1



Instrument :
MSVOA_W
ClientSampleId :
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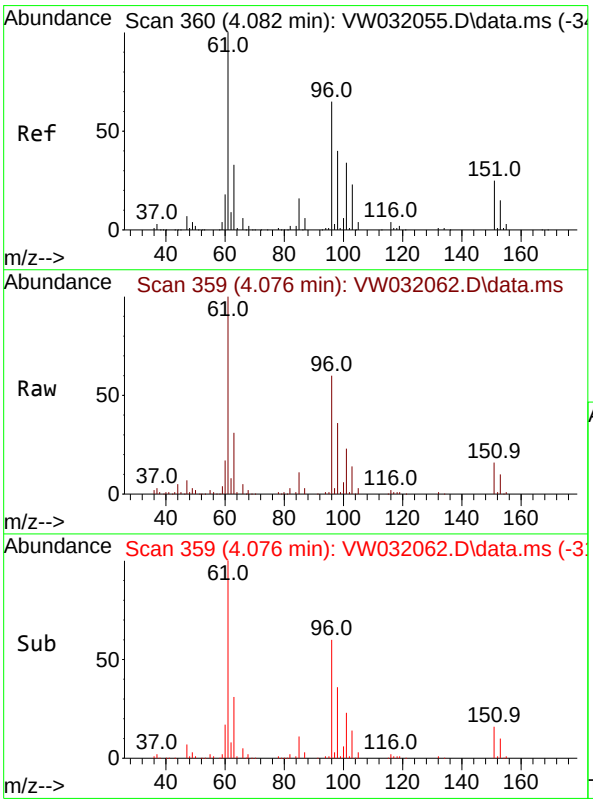
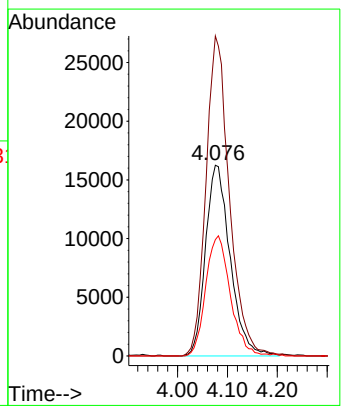
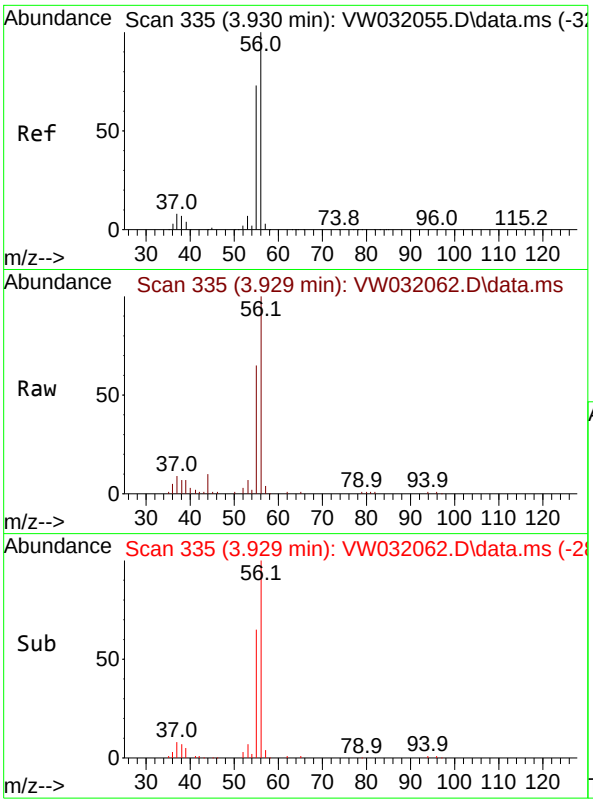


#12
1,1-Dichloroethene
Concen: 20.223 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 55617

Ion	Ratio	Lower	Upper
96	100		
61	167.8	123.4	185.2
98	61.0	49.5	74.3

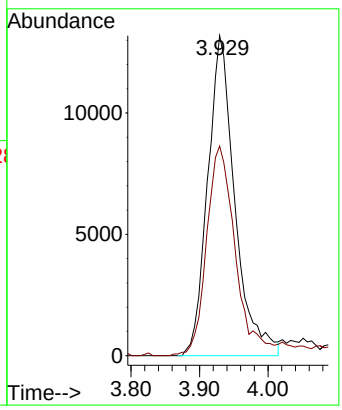




#13
Acrolein
Concen: 107.518 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 56 Resp: 3638

Ion	Ratio	Lower	Upper
56	100		
55	68.8	55.4	83.2



Instrument :
MSVOA_W
ClientSampleId :
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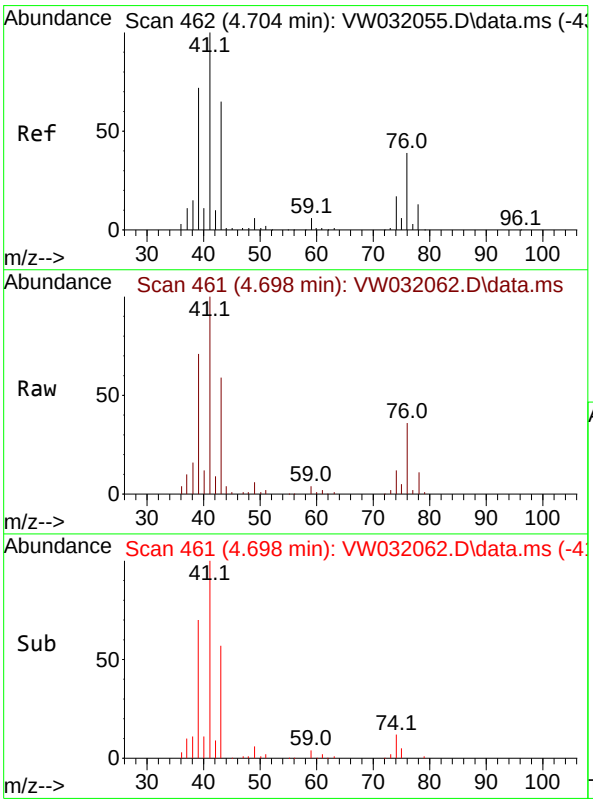
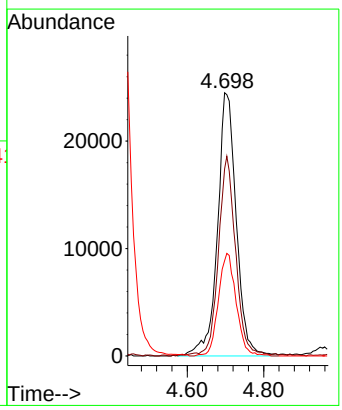
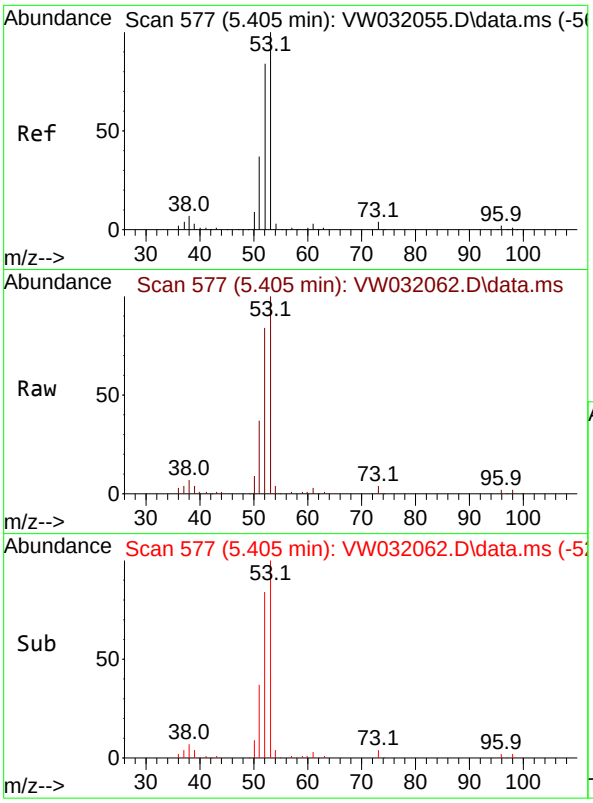


#14
Allyl chloride
Concen: 20.889 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 83613

Ion	Ratio	Lower	Upper
41	100		
39	69.6	54.5	81.7
76	36.8	29.3	43.9

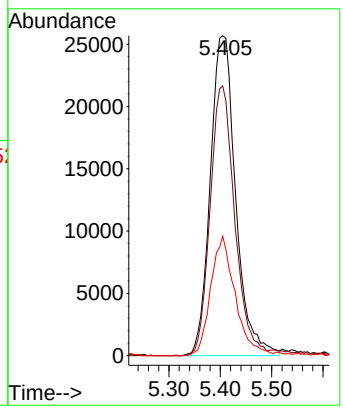




#15
Acrylonitrile
Concen: 106.933 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 53 Resp: 8834

Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.1	99.1
51	35.9	29.2	43.8



Instrument :
MSVOA_W
ClientSampleId :
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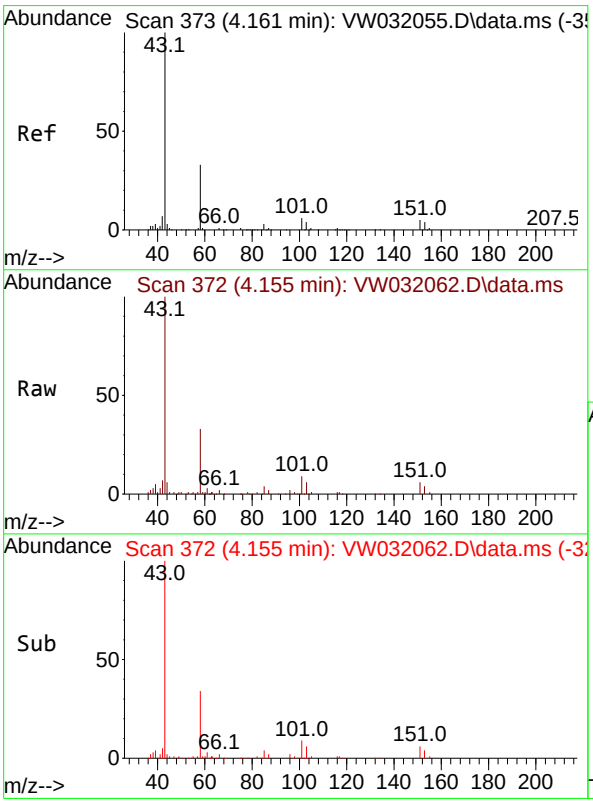
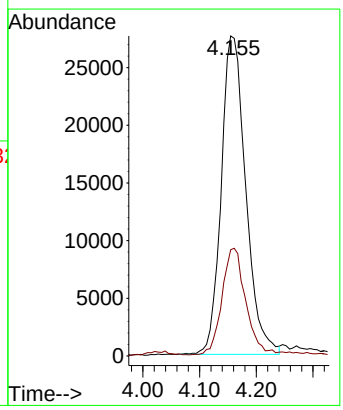
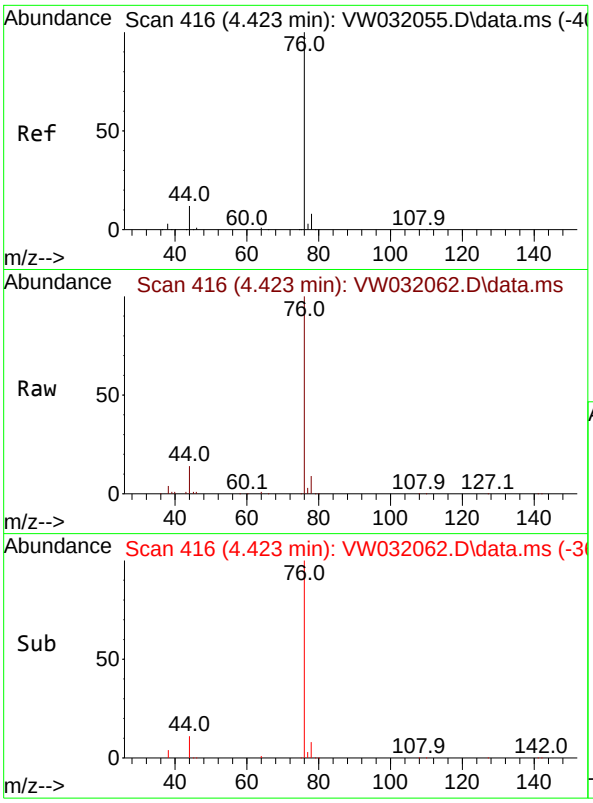


#16
Acetone
Concen: 109.296 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 82994

Ion	Ratio	Lower	Upper
43	100		
58	32.7	26.6	39.8

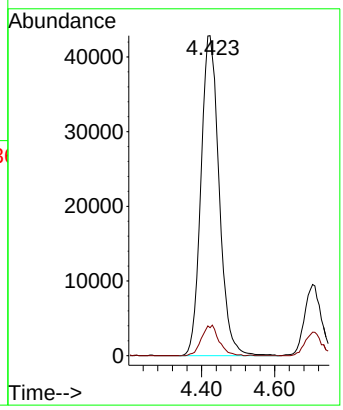




#17
Carbon Disulfide
Concen: 20.010 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 76 Resp: 14771

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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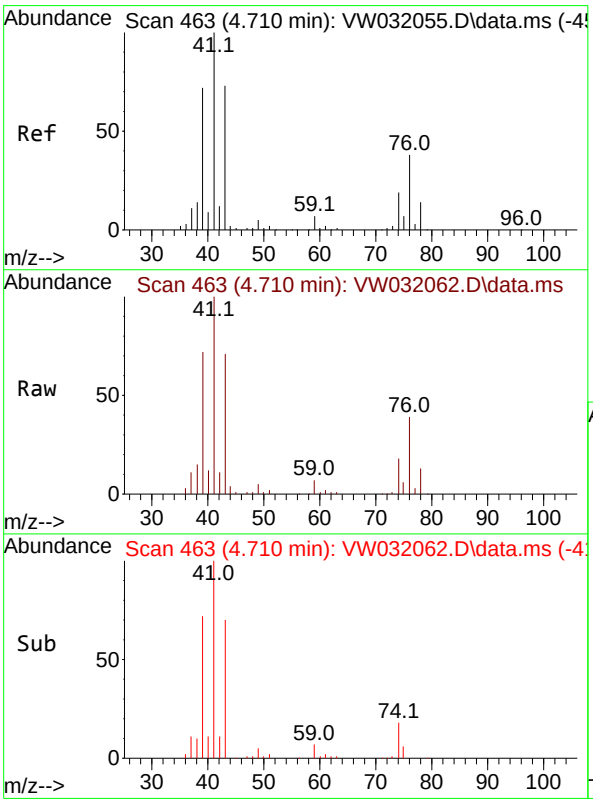
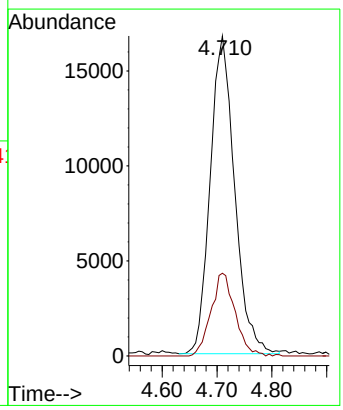
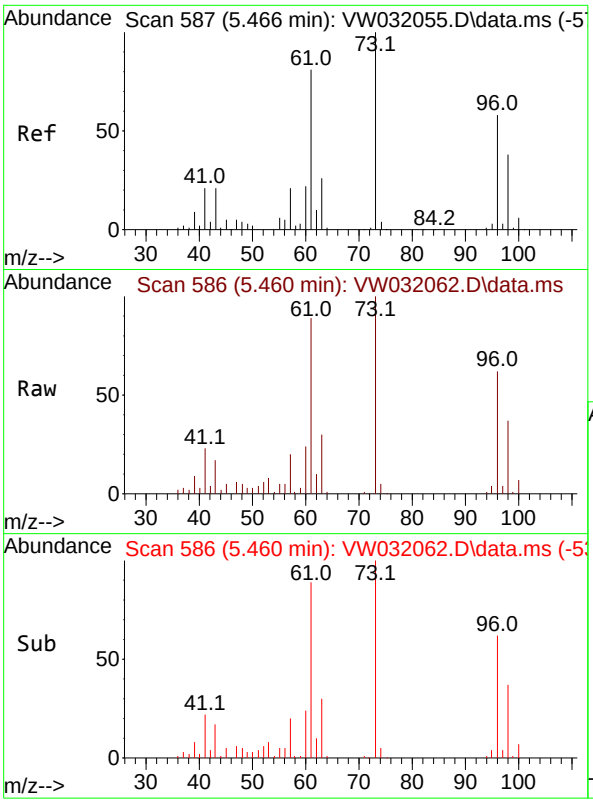


#18
Methyl Acetate
Concen: 21.540 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 51758

Ion	Ratio	Lower	Upper
43	100		
74	25.6	20.6	31.0

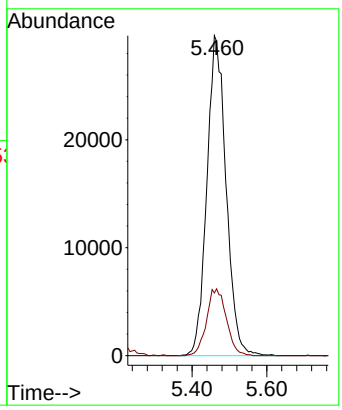




#19
Methyl tert-butyl Ether
Concen: 21.820 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 73 Resp: 10573

Ion	Ratio	Lower	Upper
73	100		
57	19.6	17.2	25.8



Instrument :
MSVOA_W
ClientSampleId :
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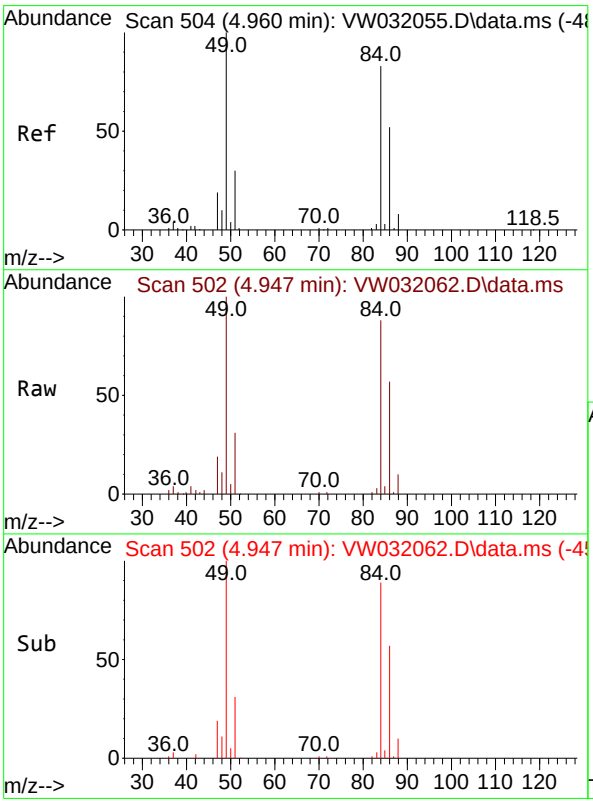
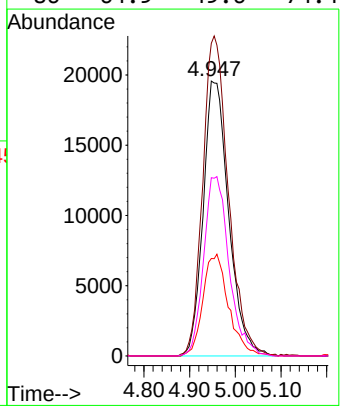
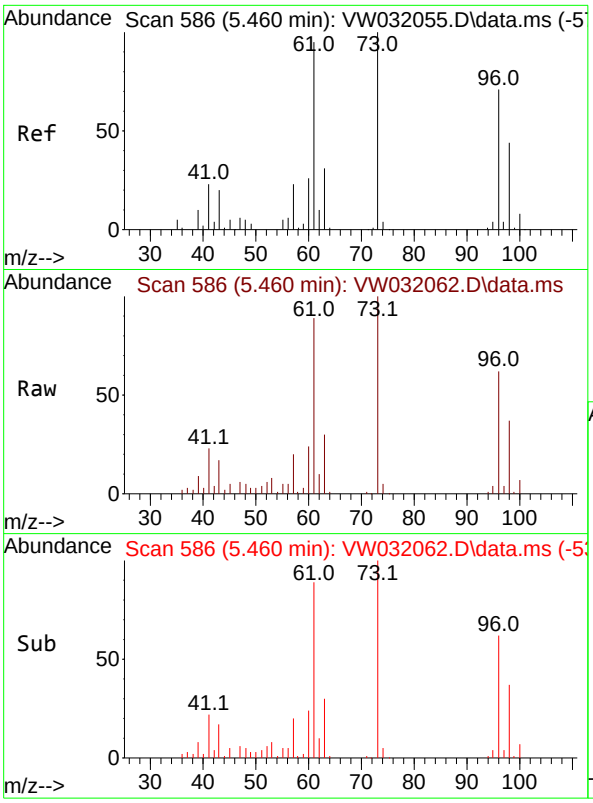


#20
Methylene Chloride
Concen: 21.617 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 84 Resp: 75897

Ion	Ratio	Lower	Upper
84	100		
49	113.8	95.9	143.9
51	35.4	28.6	43.0
86	64.9	49.6	74.4

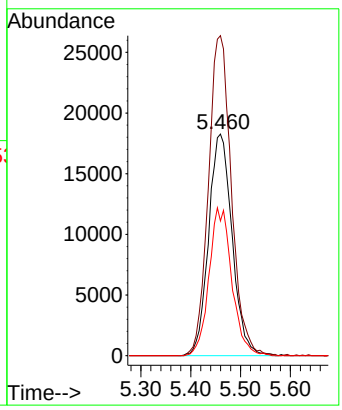




#21
trans-1,2-Dichloroethene
Concen: 20.474 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 5975

Ion	Ratio	Lower	Upper
96	100		
61	144.4	106.8	160.2
98	60.8	49.6	74.4



Instrument :
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ClientSampleId :
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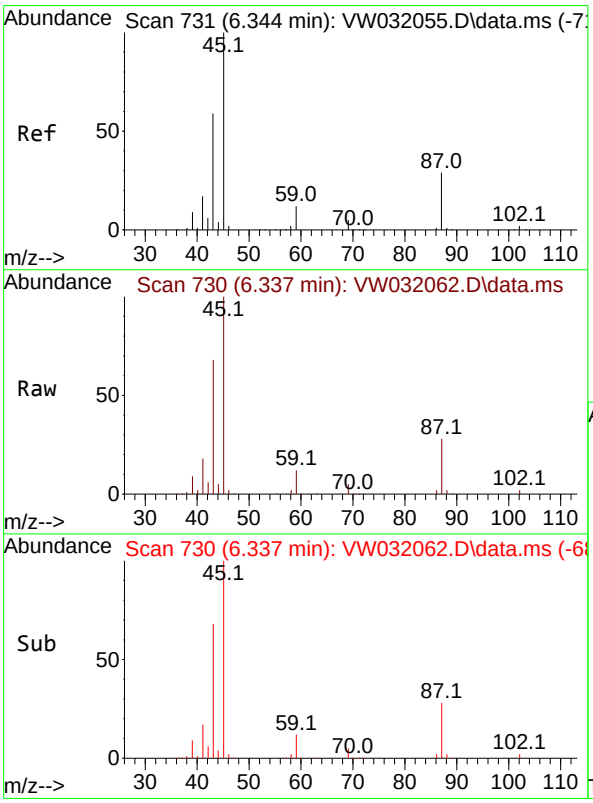
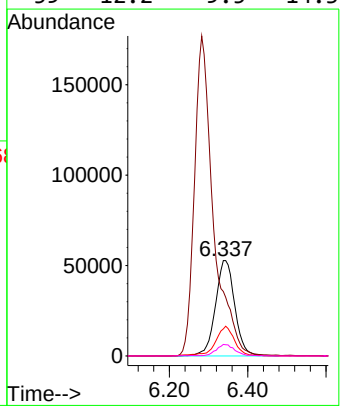
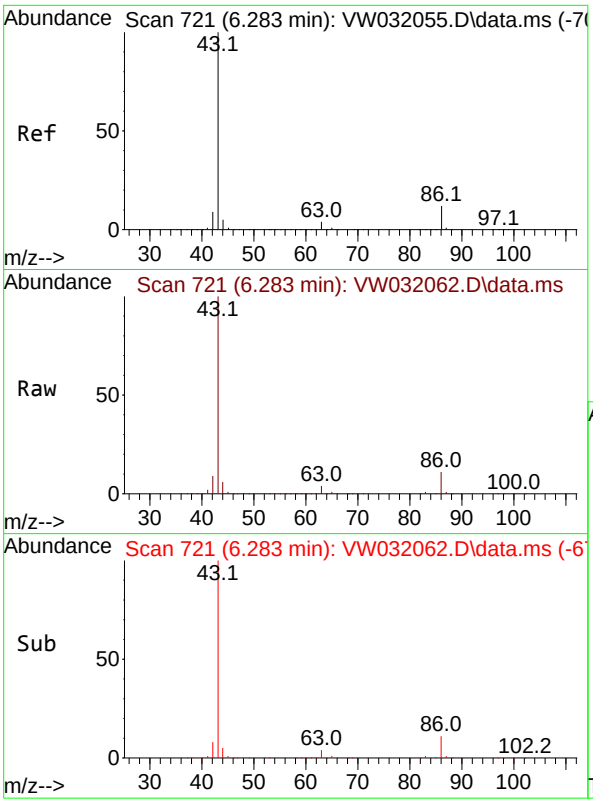


#22
Diisopropyl ether
Concen: 21.493 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 45 Resp: 181364

Ion	Ratio	Lower	Upper
45	100		
43	67.2	47.0	70.4
87	28.4	23.8	35.8
59	12.2	9.5	14.3





#23
Vinyl Acetate
Concen: 107.662 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 59645

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.4	14.0

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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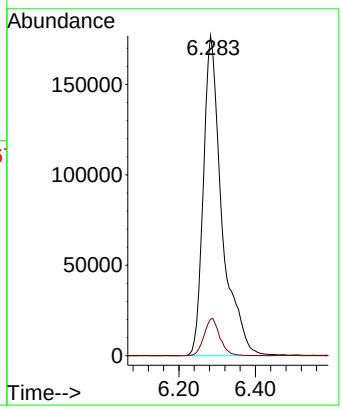
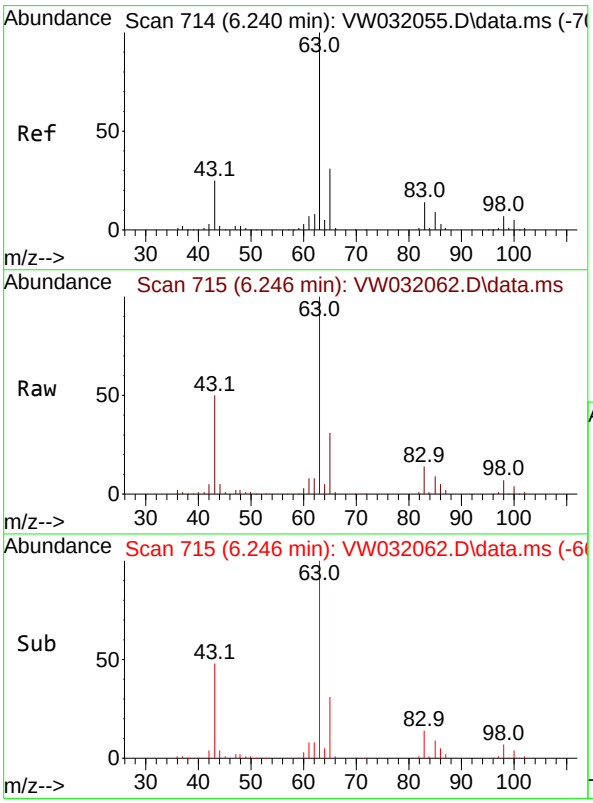
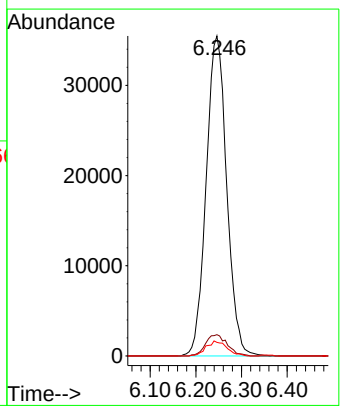


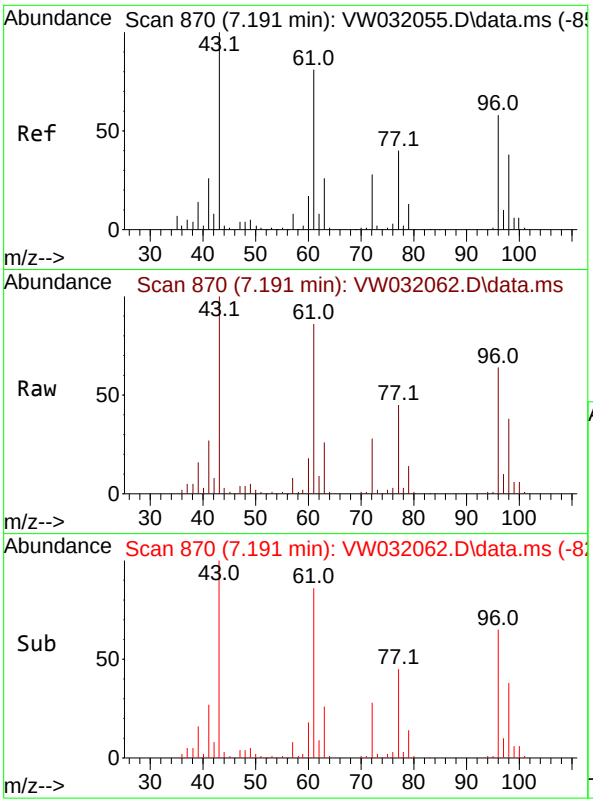


#24
1,1-Dichloroethane
Concen: 20.536 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 110715

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.7	11.1
100	4.2	2.5	7.4

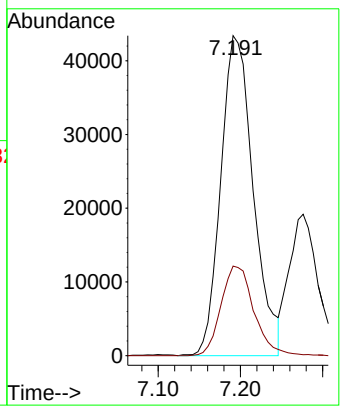




#25
2-Butanone
Concen: 110.592 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 11935

Ion	Ratio	Lower	Upper
43	100		
72	28.0	22.3	33.5



Instrument :
MSVOA_W
ClientSampleId :
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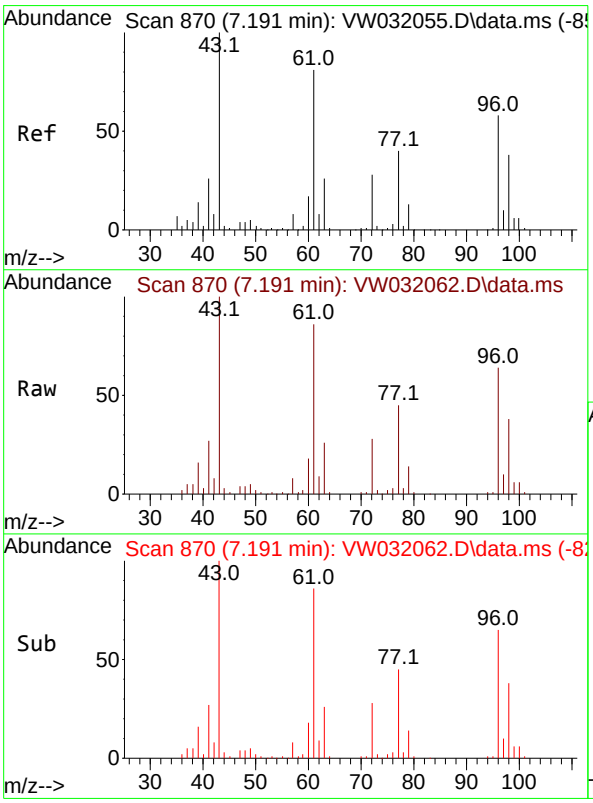
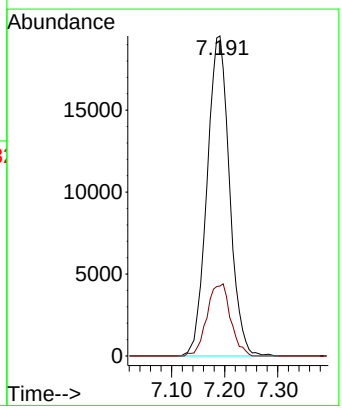
Supervised By :Semsettin Yesilyurt 08/12/2025

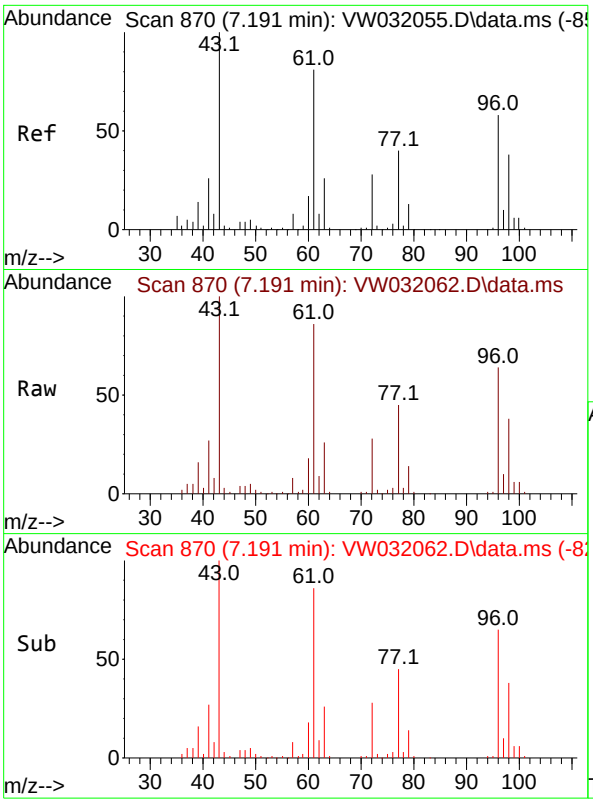


#26
2,2-Dichloropropane
Concen: 21.188 ug/l
RT: 7.191 min Scan# 870
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 77 Resp: 57308

Ion	Ratio	Lower	Upper
77	100		
97	23.6	12.3	36.9

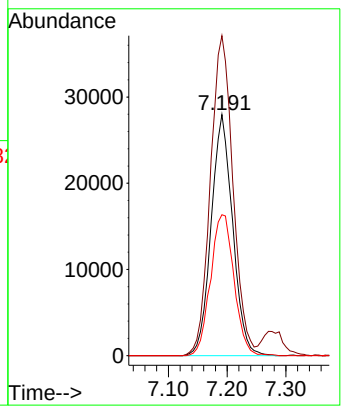




#27
cis-1,2-Dichloroethene
Concen: 20.829 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 7105

Ion	Ratio	Lower	Upper
96	100		
61	139.0	0.0	281.2
98	63.9	0.0	130.8



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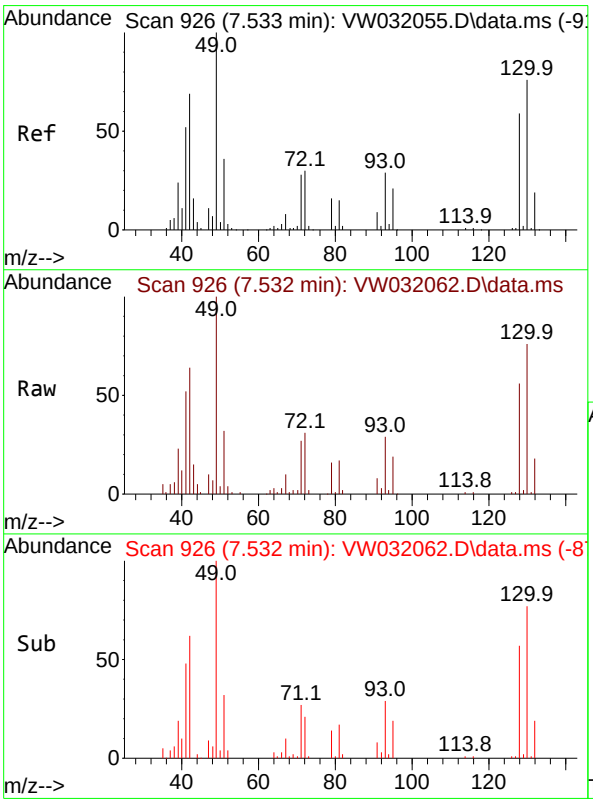
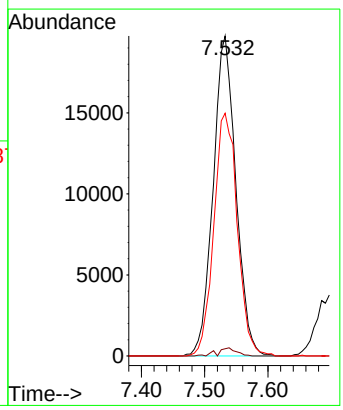
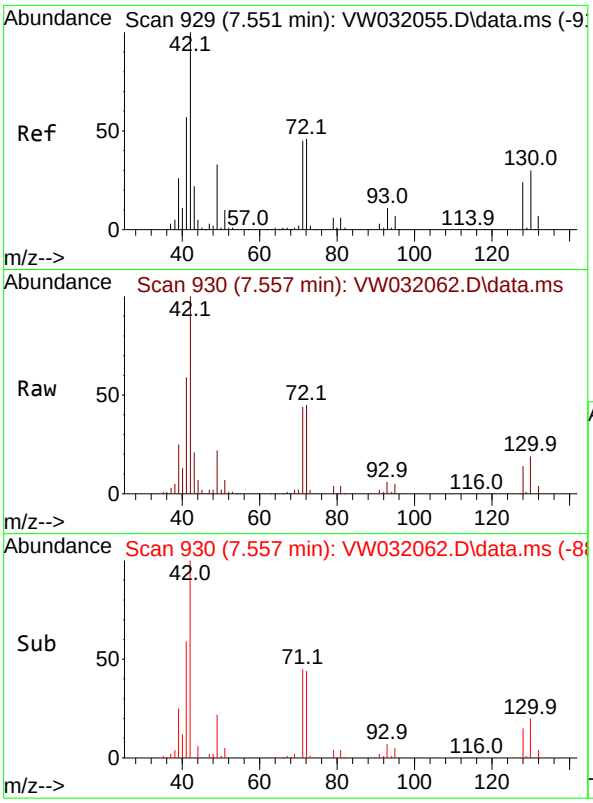


#28
Bromochloromethane
Concen: 20.039 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 49 Resp: 49164

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.2
130	78.4	61.9	92.9

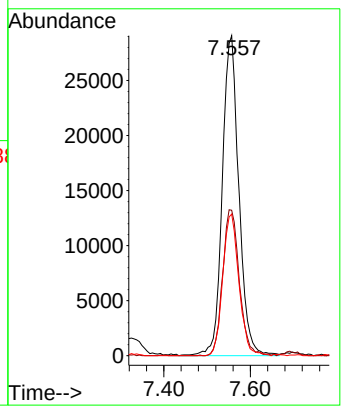




#29
Tetrahydrofuran
Concen: 108.972 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 42 Resp: 7756

Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.6	55.0
71	43.2	34.7	52.1



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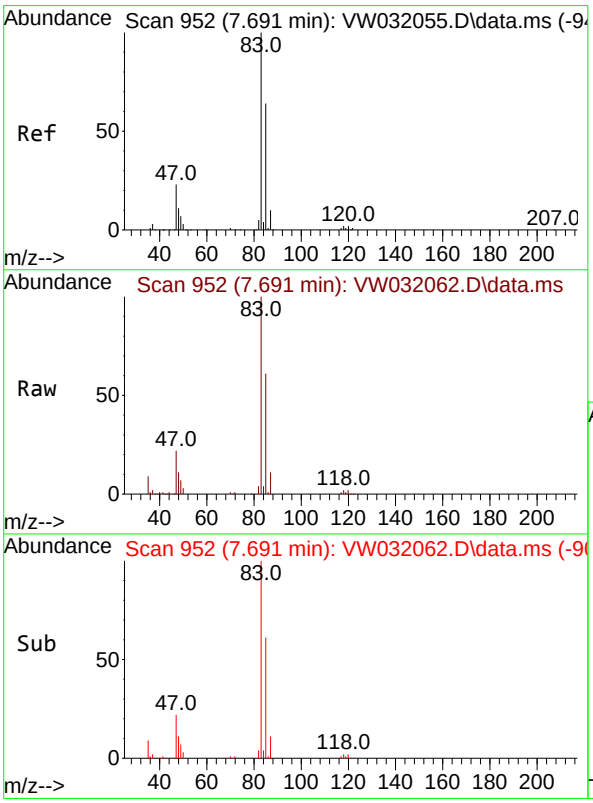
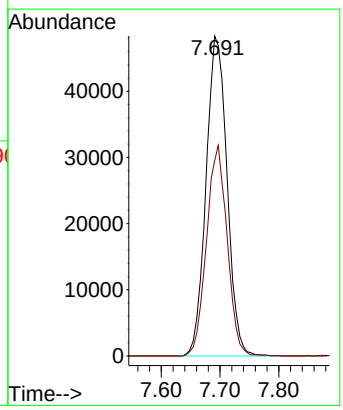
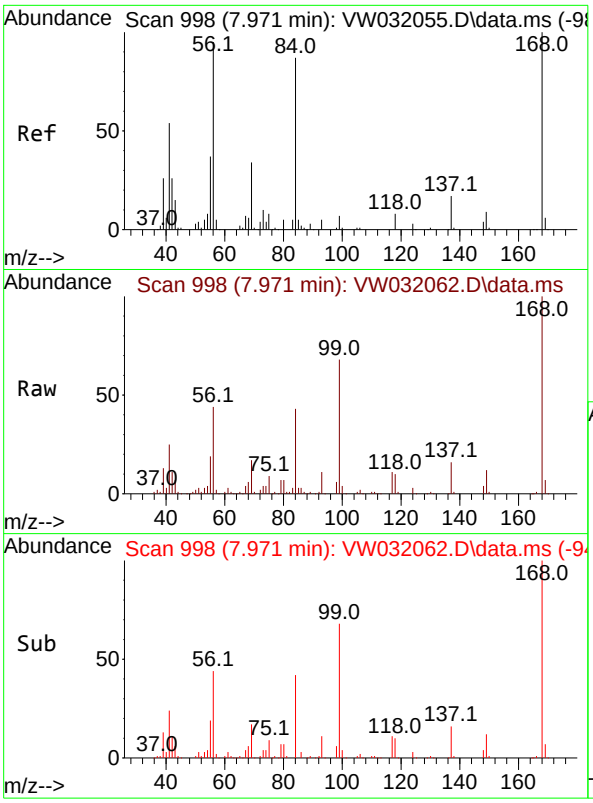


#30
Chloroform
Concen: 20.980 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 119914

Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.0	76.4

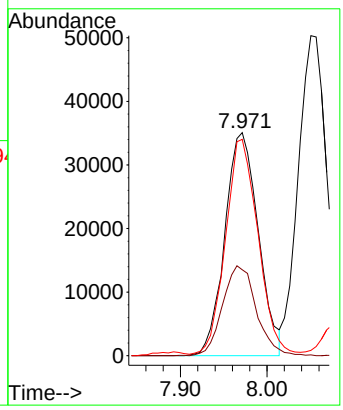




#31
Cyclohexane
Concen: 20.129 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 56 Resp: 9408

Ion	Ratio	Lower	Upper
56	100		
69	38.4	28.6	42.8
84	95.4	73.0	109.4



Instrument :
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ClientSampleId :
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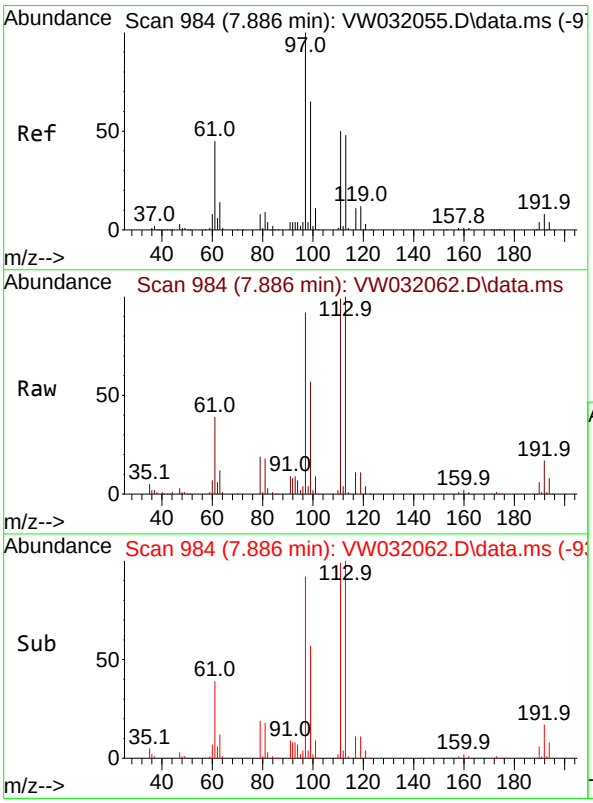
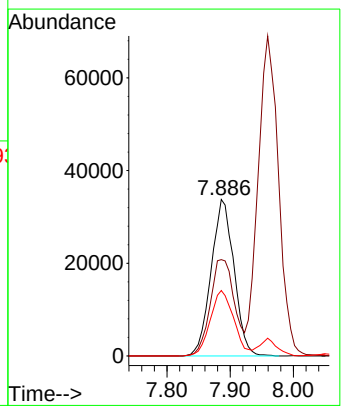
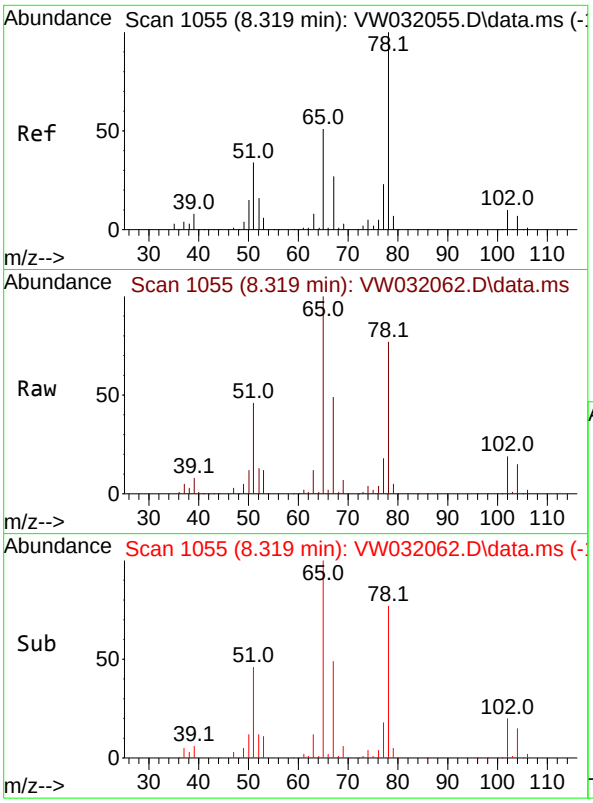


#32
1,1,1-Trichloroethane
Concen: 20.417 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 97 Resp: 84762

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.8	77.8
61	43.2	35.9	53.9

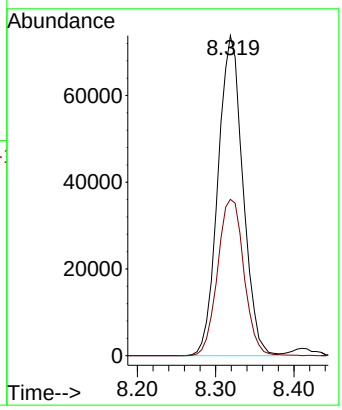




#33
1,2-Dichloroethane-d4
Concen: 49.758 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 65 Resp: 16319

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.4



Instrument :
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ClientSampleId :
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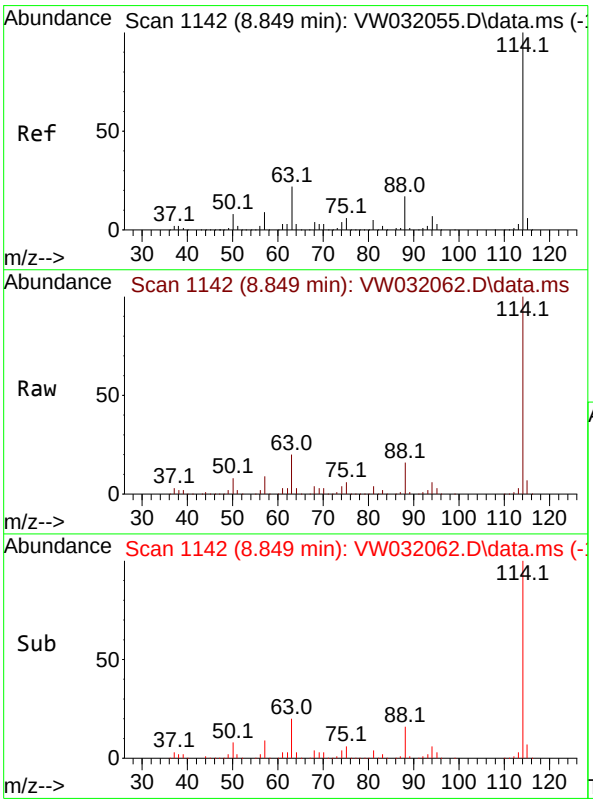
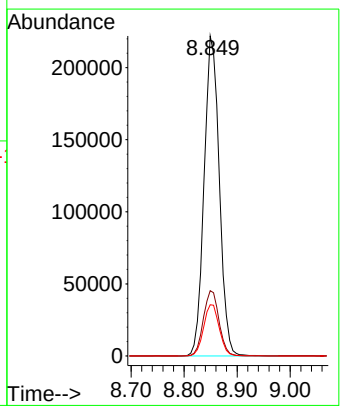
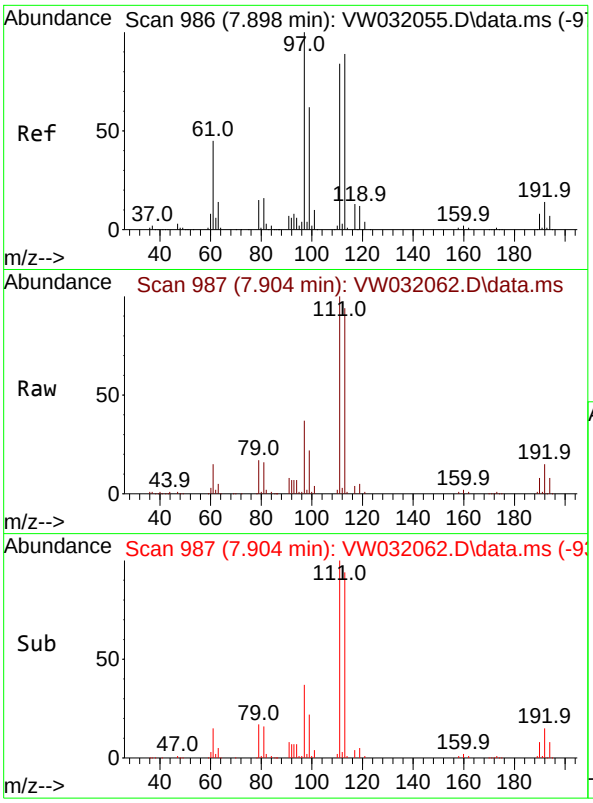


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:114 Resp: 441696

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.0
88	16.0	0.0	33.8

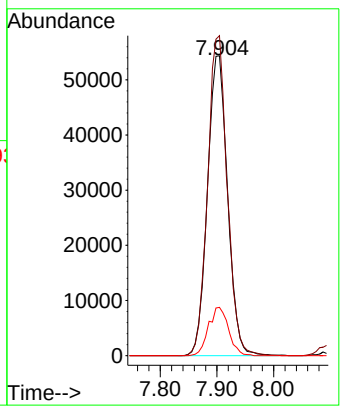




#35
Dibromofluoromethane
Concen: 47.032 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:113 Resp: 13420

Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.1	120.1
192	16.1	13.1	19.7



Instrument :
MSVOA_W
ClientSampleId :
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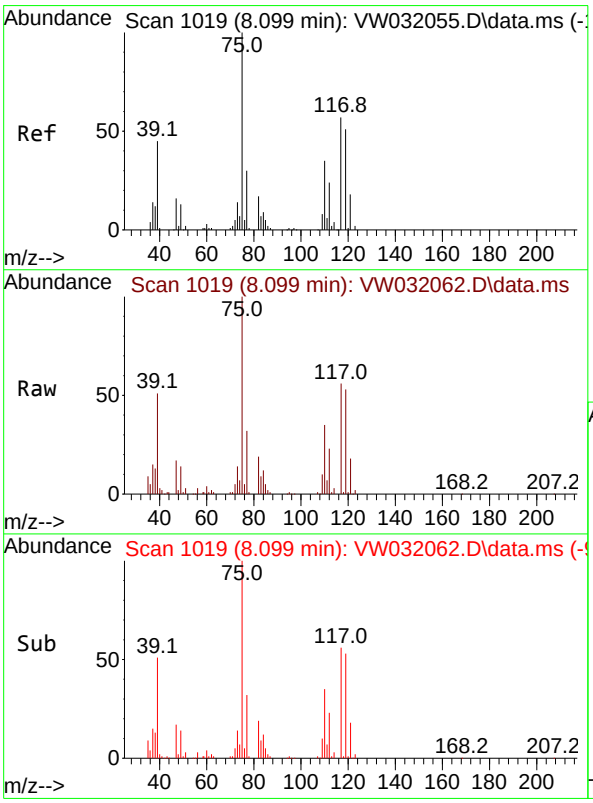
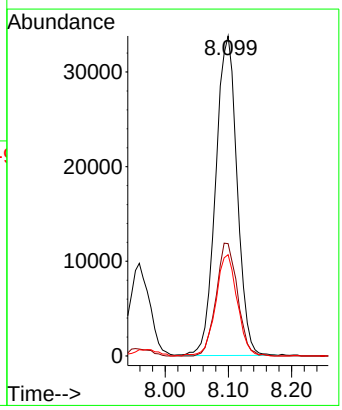
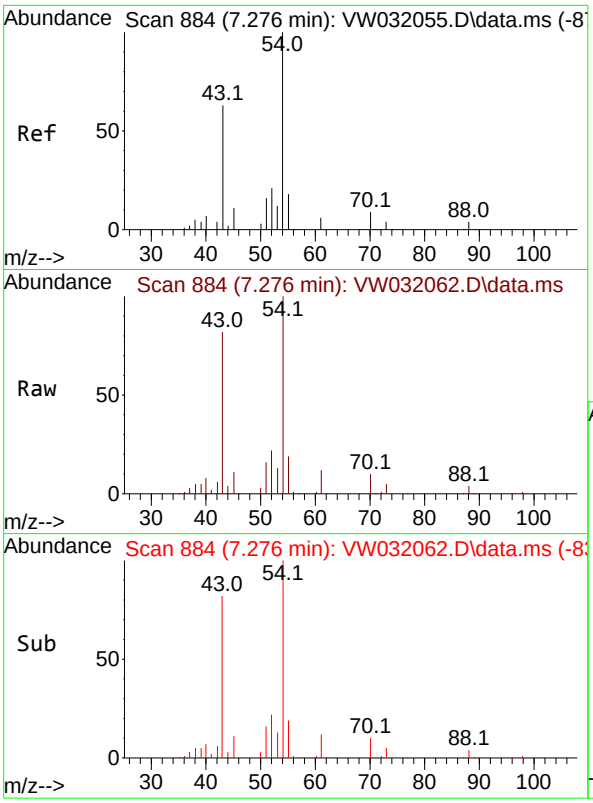


#36
1,1-Dichloropropene
Concen: 19.708 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 79280

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.4	52.2
77	31.9	24.7	37.1

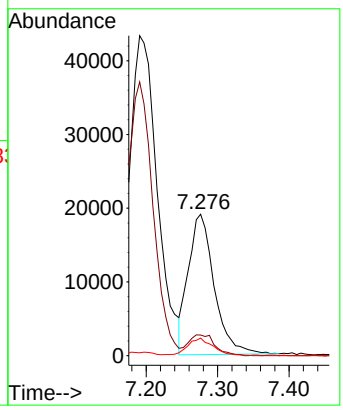




#37
Ethyl Acetate
Concen: 20.284 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 4805

Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.8	17.6
70	12.2	9.4	14.0



Instrument :
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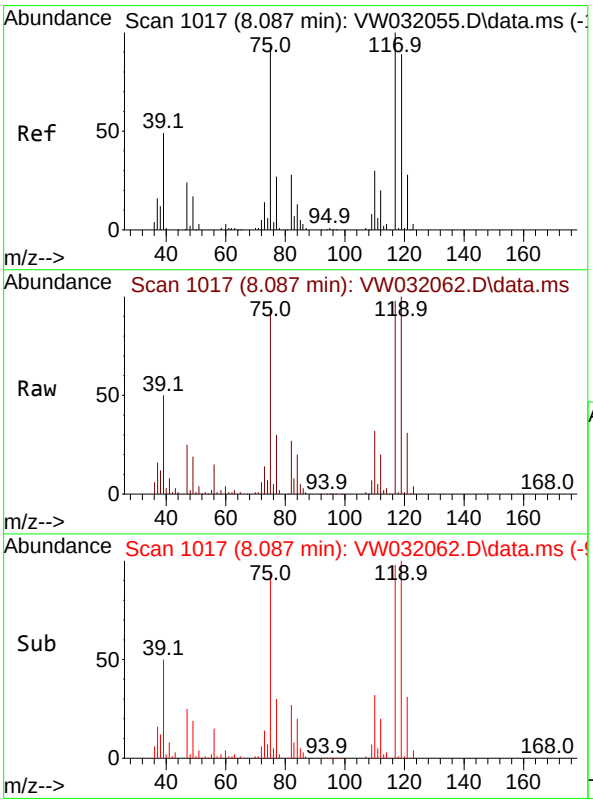
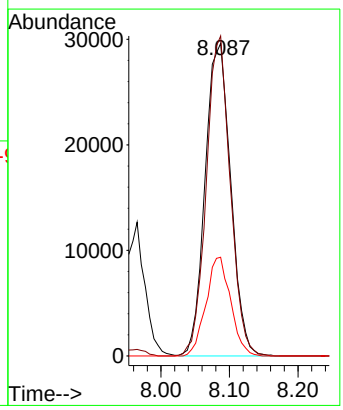
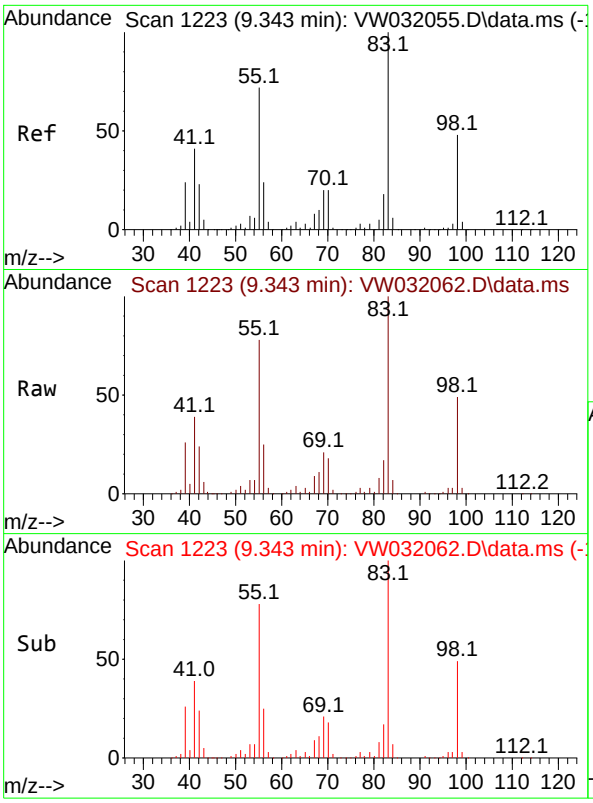


#38
Carbon Tetrachloride
Concen: 19.825 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 76962

Ion	Ratio	Lower	Upper
117	100		
119	102.4	71.4	107.2
121	31.6	22.3	33.5

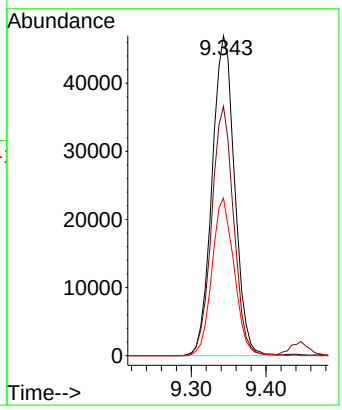




#39
Methylcyclohexane
Concen: 20.117 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 9863

Ion	Ratio	Lower	Upper
83	100		
55	77.9	57.9	86.9
98	49.2	38.3	57.5



Instrument :
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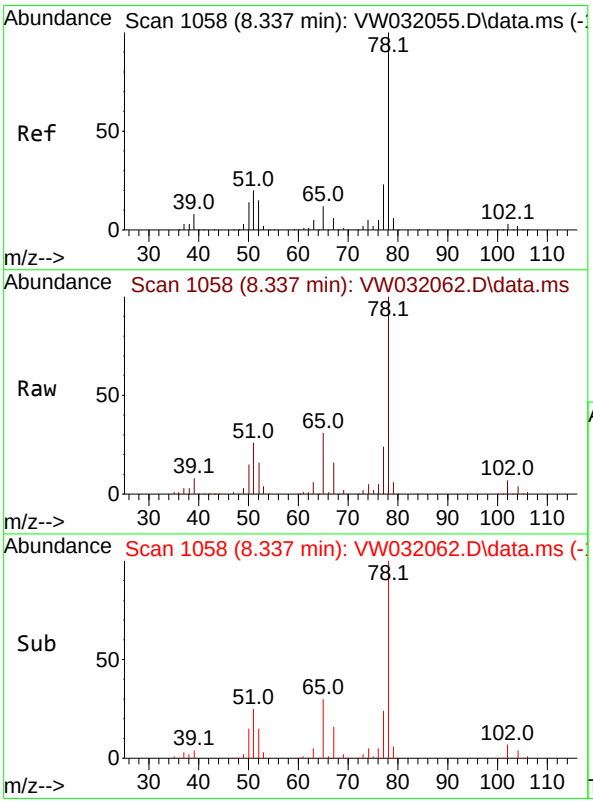
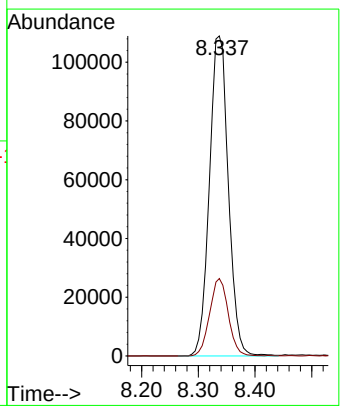
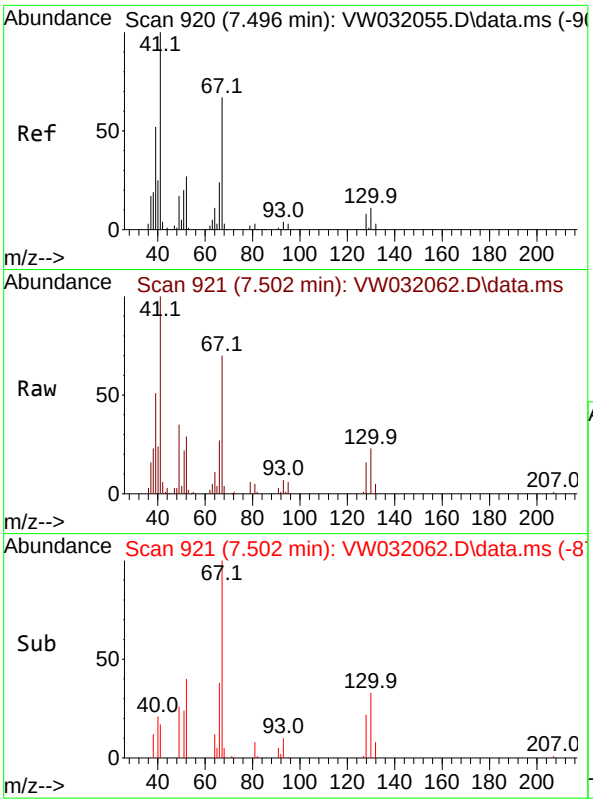


#40
Benzene
Concen: 20.229 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 78 Resp: 252942

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.4	27.6

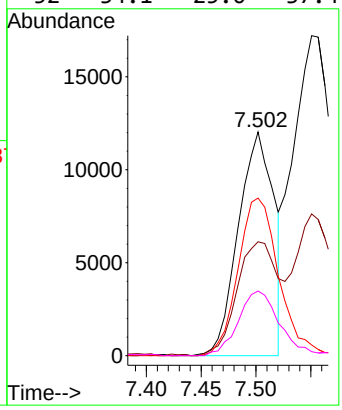




#41
Methacrylonitrile
Concen: 20.188 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 2712

Ion	Ratio	Lower	Upper
41	100		
39	60.3	42.6	63.8
67	81.2	61.0	91.4
52	34.1	25.0	37.4



Instrument :
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ClientSampleId :
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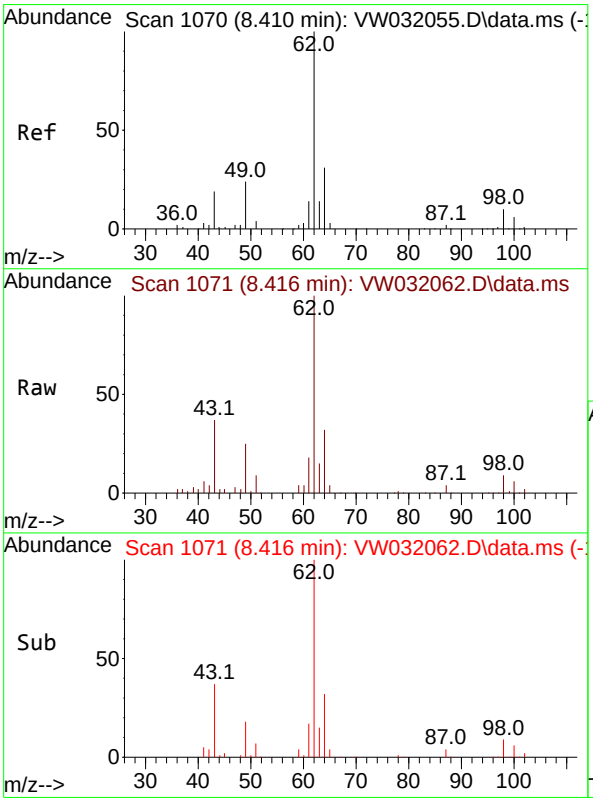
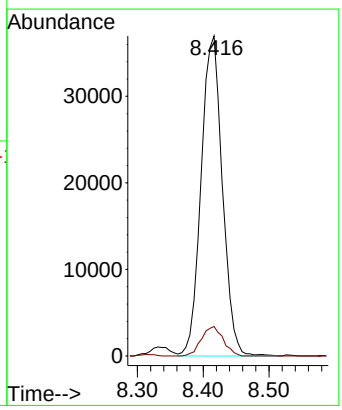
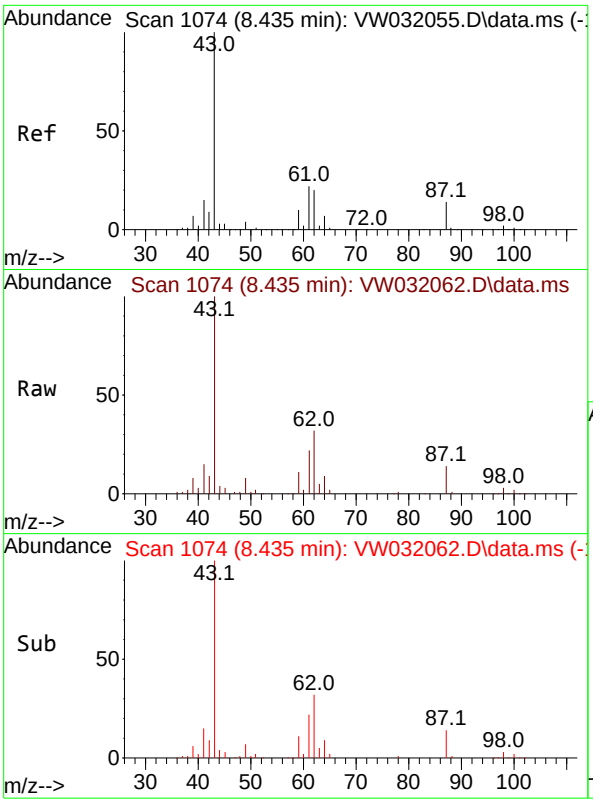


#42
1,2-Dichloroethane
Concen: 20.784 ug/l
RT: 8.416 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 83160

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	19.8

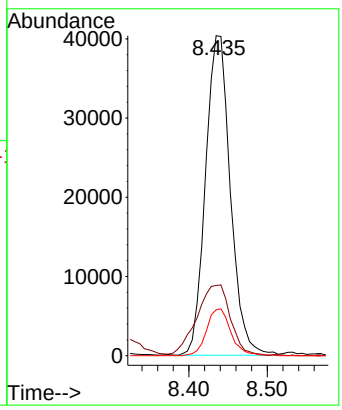




#43
Isopropyl Acetate
Concen: 20.393 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 8889

Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.8	35.8
87	14.3	11.7	17.5



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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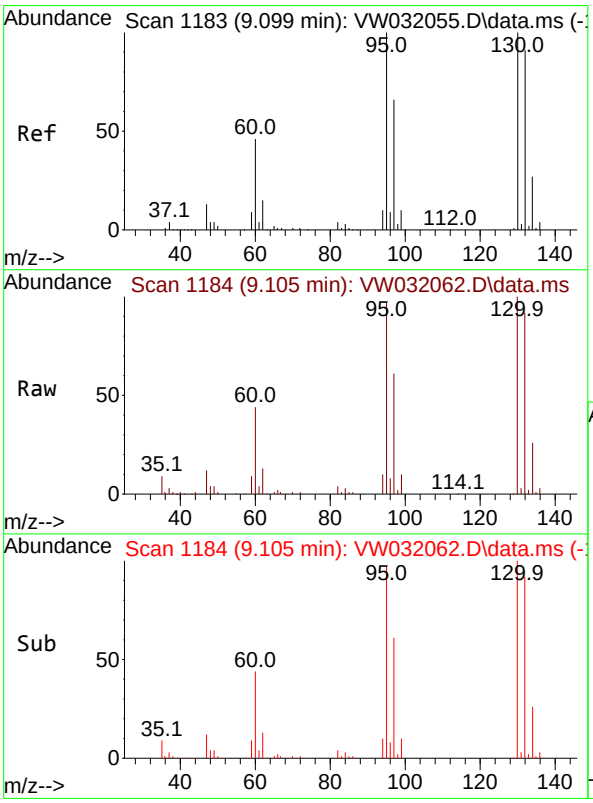
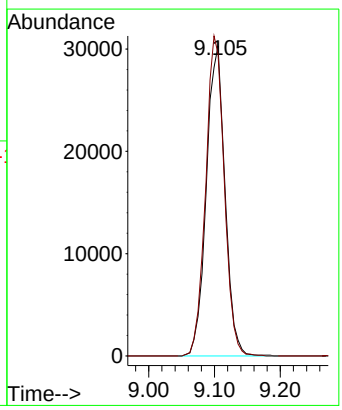
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

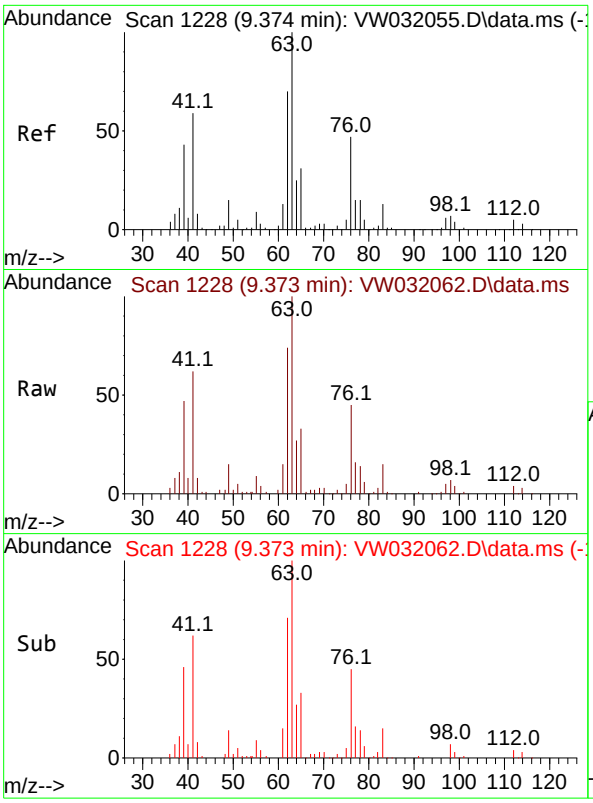


#44
Trichloroethene
Concen: 20.095 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:130 Resp: 59840

Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	200.6

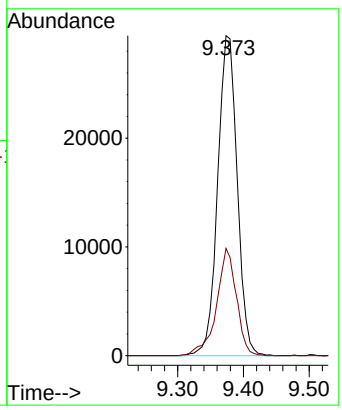




#45
1,2-Dichloropropane
Concen: 20.135 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 6082

Ion	Ratio	Lower	Upper
63	100		
65	33.5	24.6	36.8



Instrument :
MSVOA_W
ClientSampleId :
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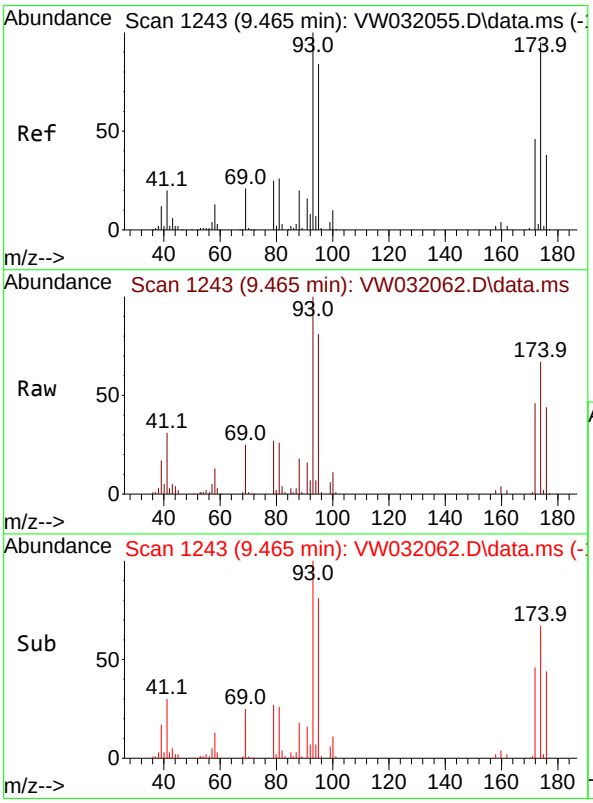
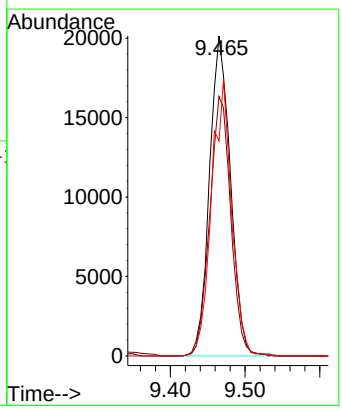
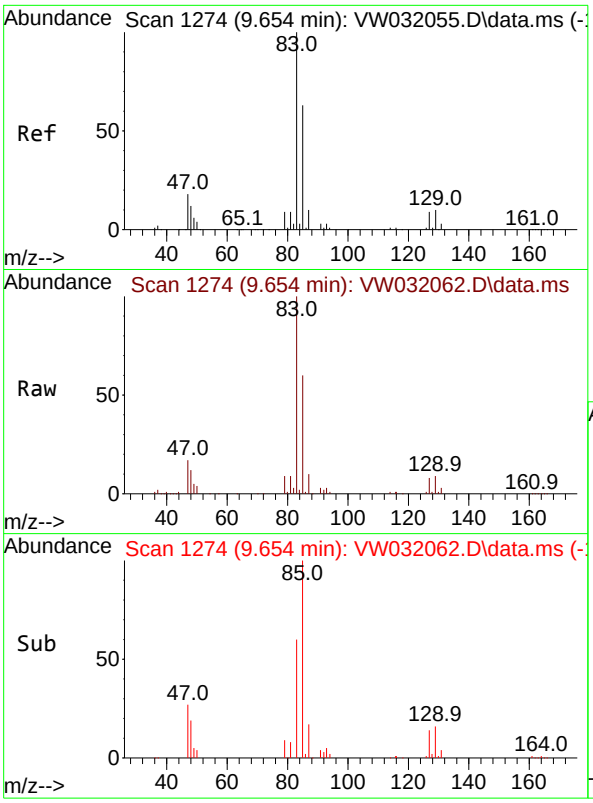


#46
Dibromomethane
Concen: 20.151 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 93 Resp: 39289

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.3	97.9
174	83.3	68.6	102.8

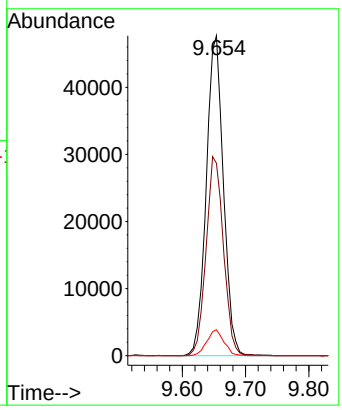




#47
Bromodichloromethane
Concen: 19.980 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 8976

Ion	Ratio	Lower	Upper
83	100		
85	60.2	50.6	75.8
127	8.1	6.9	10.3



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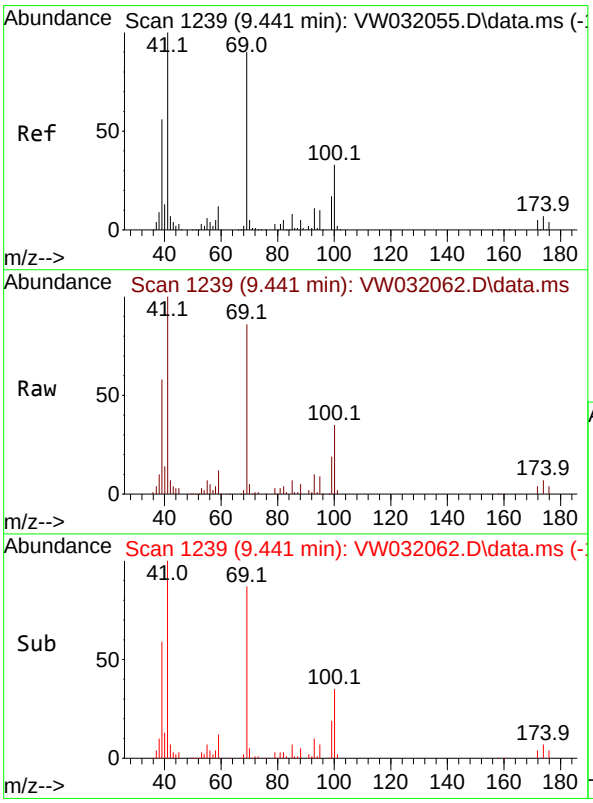
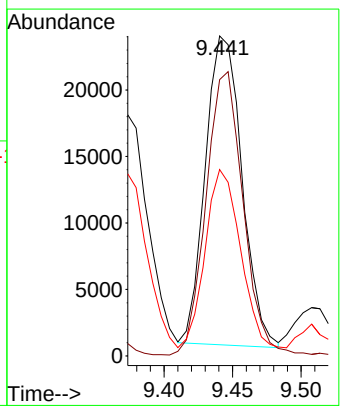
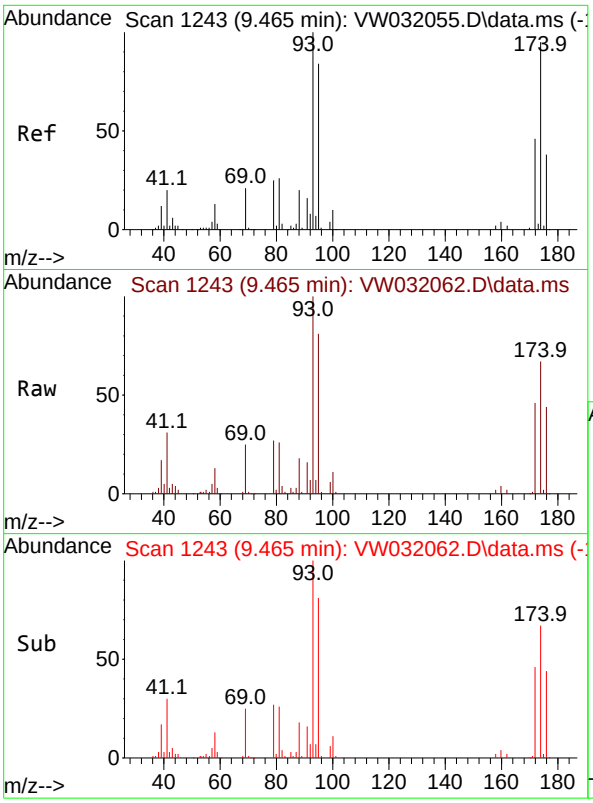


#48
Methyl methacrylate
Concen: 20.539 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 43222

Ion	Ratio	Lower	Upper
41	100		
69	93.2	73.0	109.6
39	56.3	45.0	67.4





#49
1,4-Dioxane
Concen: 419.936 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 88 Resp: 1058

Ion	Ratio	Lower	Upper
88	100		
43	23.5	20.6	30.8
58	61.8	60.4	90.6

Instrument :
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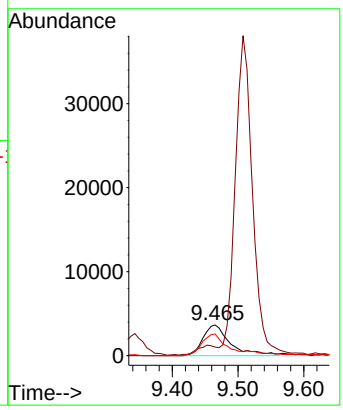
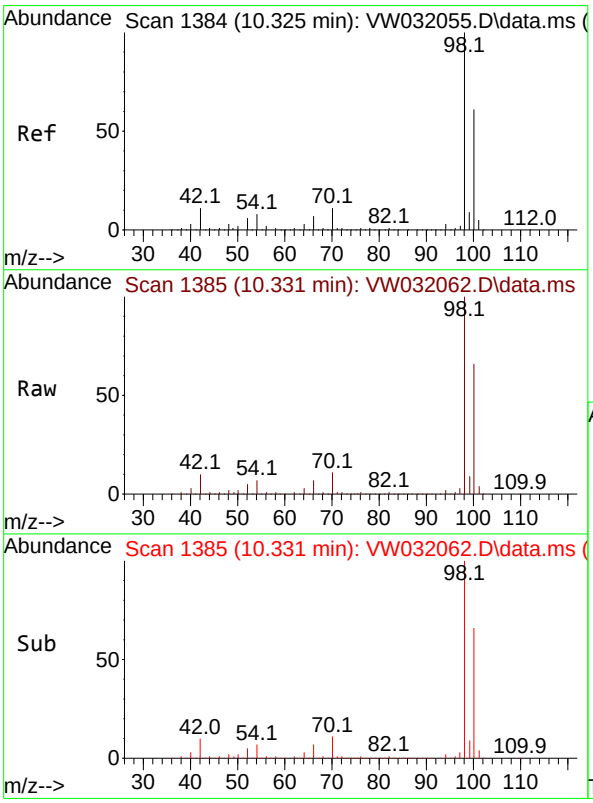
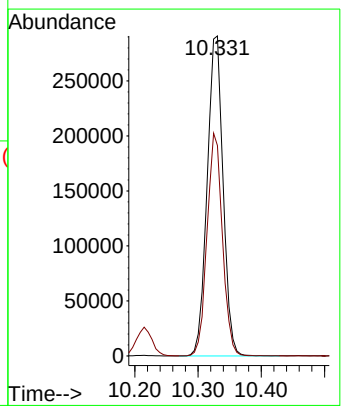


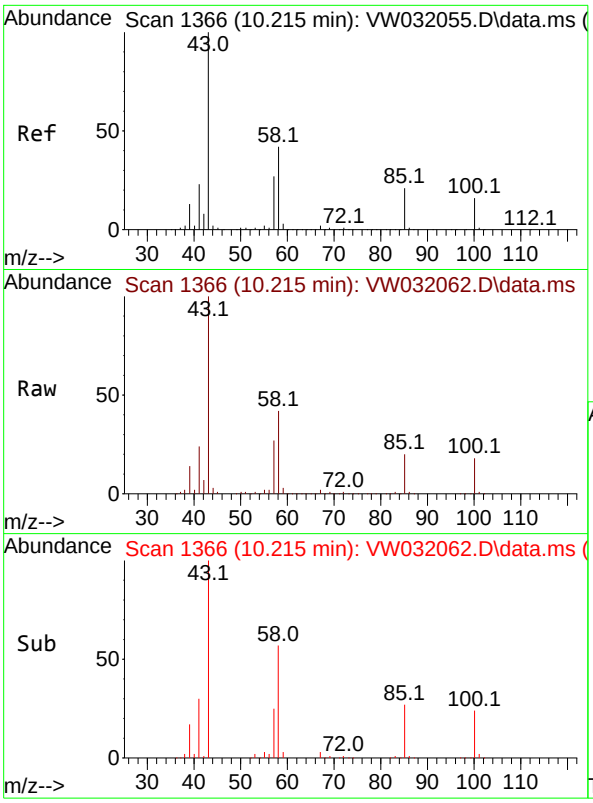


#50
Toluene-d8
Concen: 48.296 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 98 Resp: 509734

Ion	Ratio	Lower	Upper
98	100		
100	67.2	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 104.852 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 25797

Ion	Ratio	Lower	Upper
43	100		
58	41.1	33.1	49.7

Instrument :
MSVOA_W
ClientSampleId :
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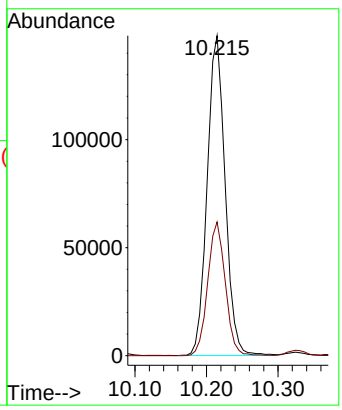
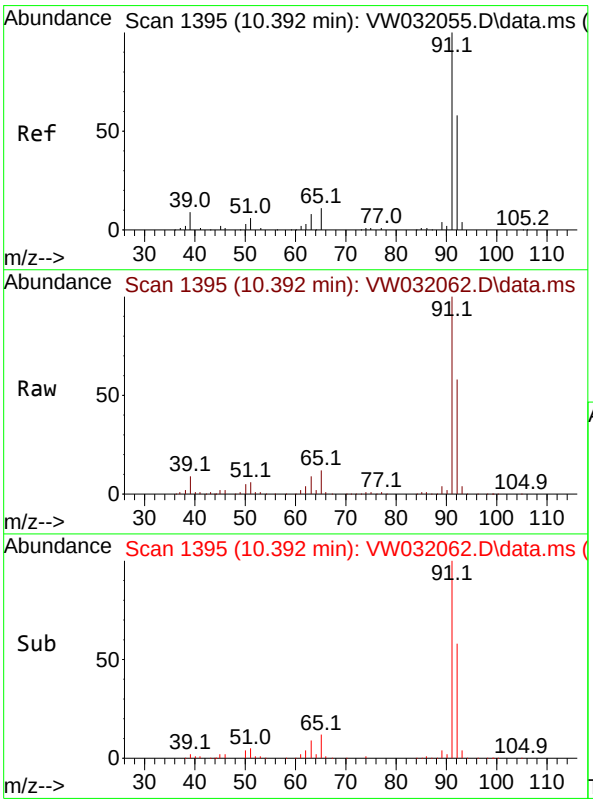
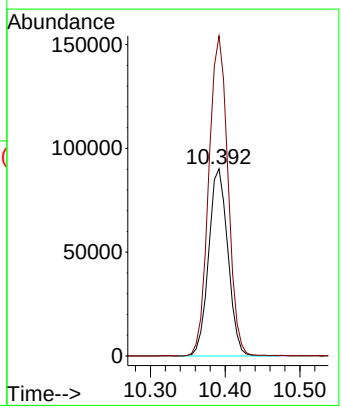


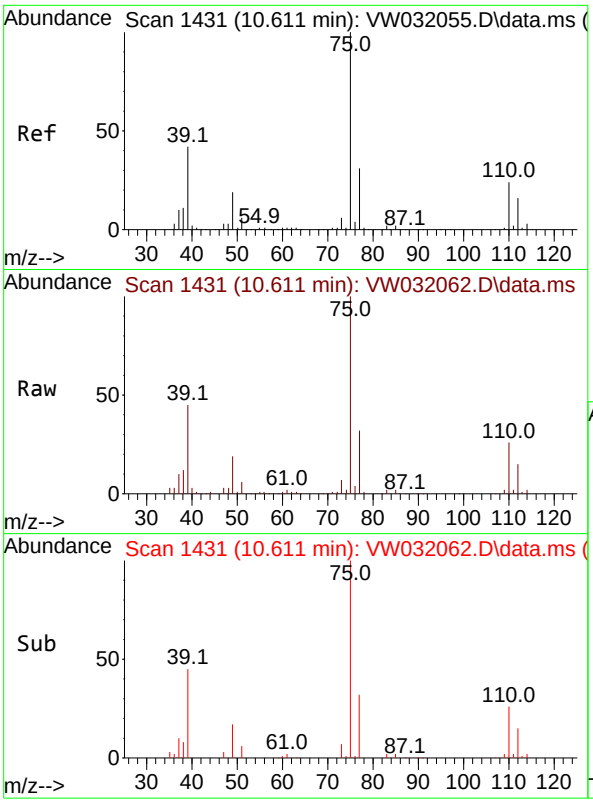


#52
Toluene
Concen: 20.465 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 92 Resp: 161185

Ion	Ratio	Lower	Upper
92	100		
91	170.9	136.3	204.5





#53
t-1,3-Dichloropropene
Concen: 19.991 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 8414

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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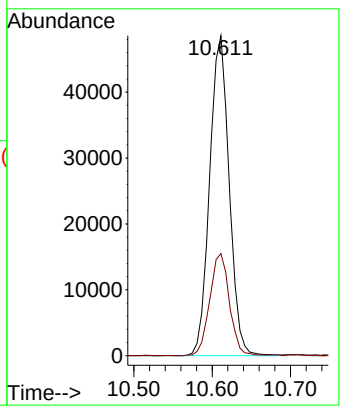
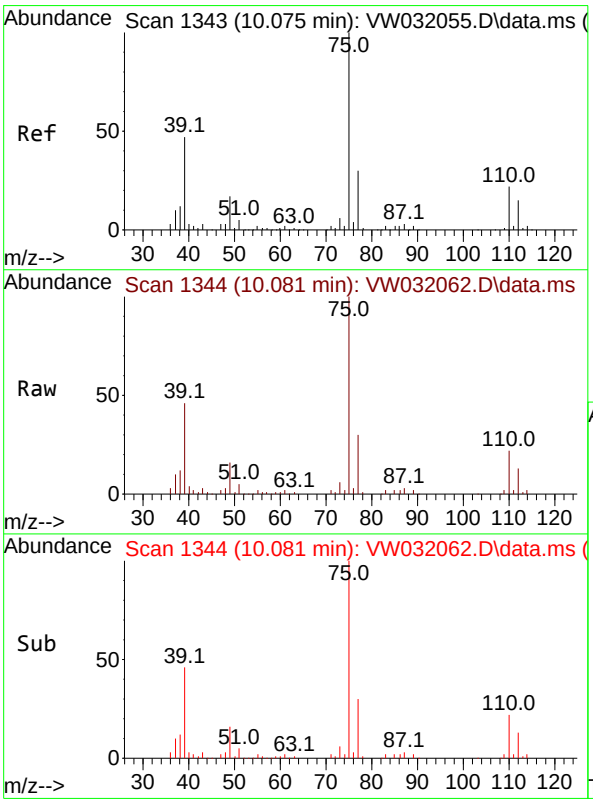
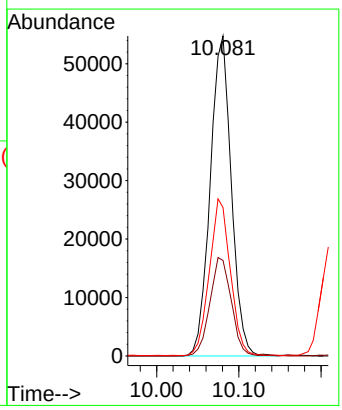


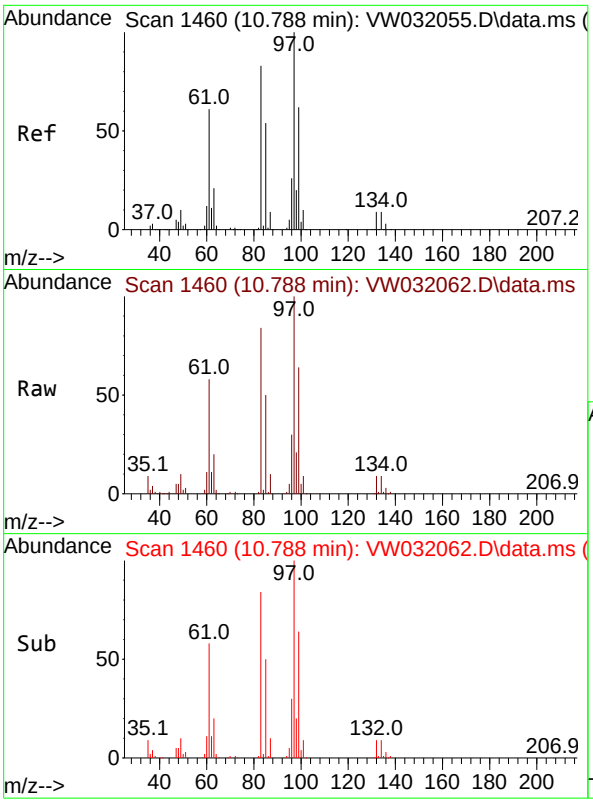


#54
cis-1,3-Dichloropropene
Concen: 20.444 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 97621

Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.0	36.0
39	46.2	37.8	56.8

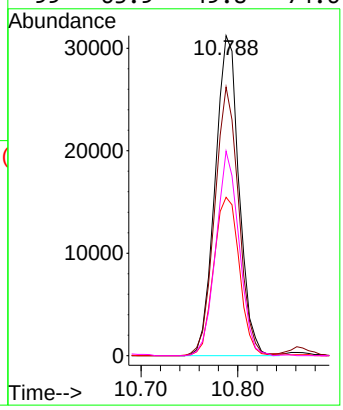




#55
1,1,2-Trichloroethane
Concen: 20.722 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 97 Resp: 5368

Ion	Ratio	Lower	Upper
97	100		
83	84.0	66.4	99.6
85	49.5	43.1	64.7
99	63.9	49.8	74.6



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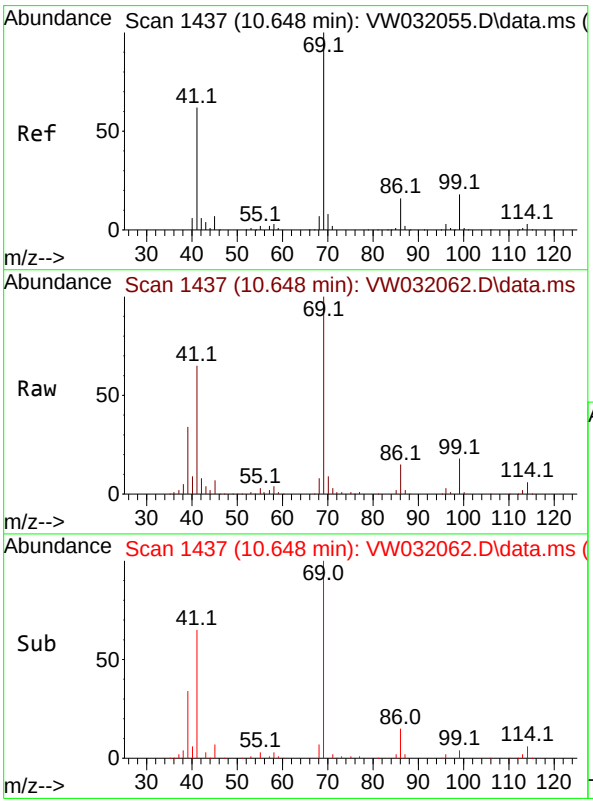
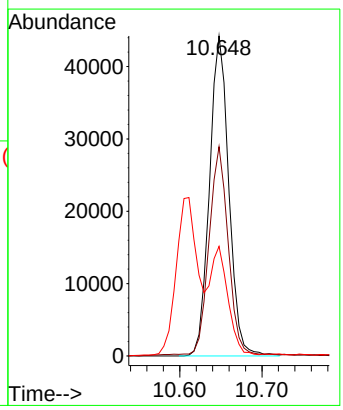
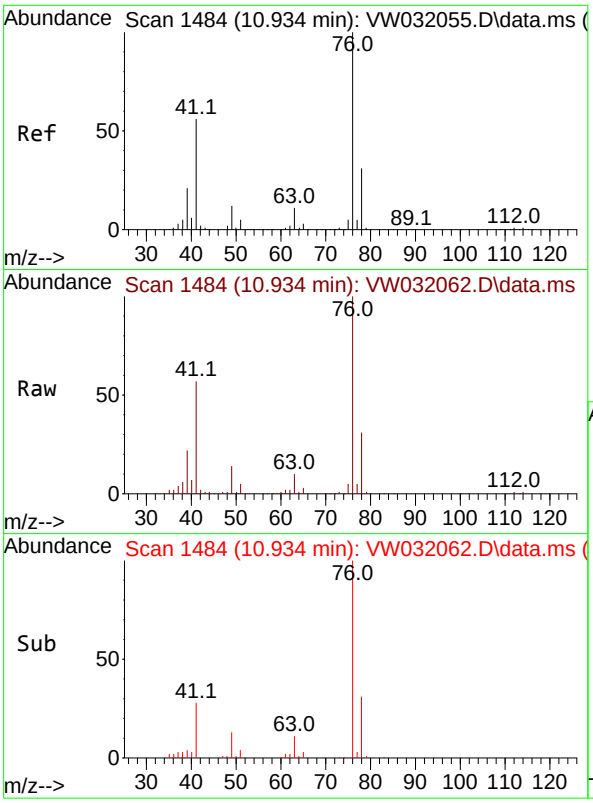


#56
Ethyl methacrylate
Concen: 20.854 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 69 Resp: 72299

Ion	Ratio	Lower	Upper
69	100		
41	66.8	51.2	76.8
39	31.4	25.4	38.0

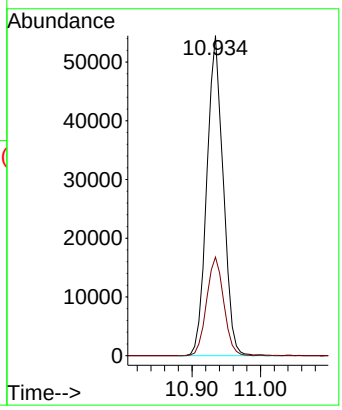




#57
1,3-Dichloropropane
Concen: 20.061 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 76 Resp: 9059

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6



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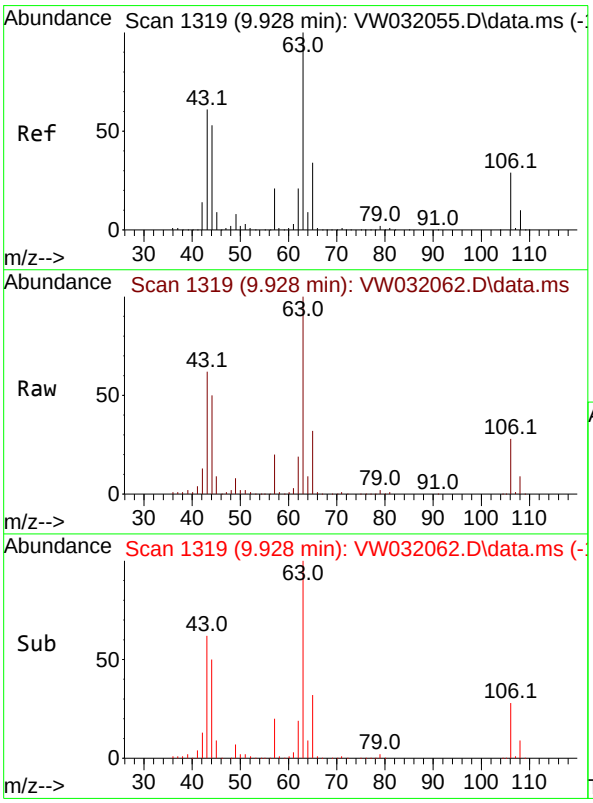
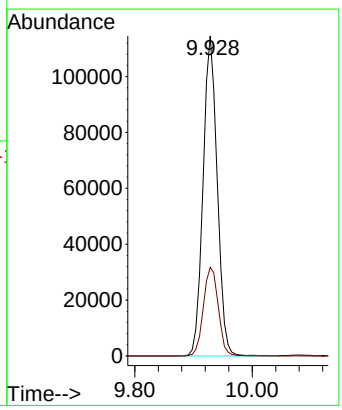
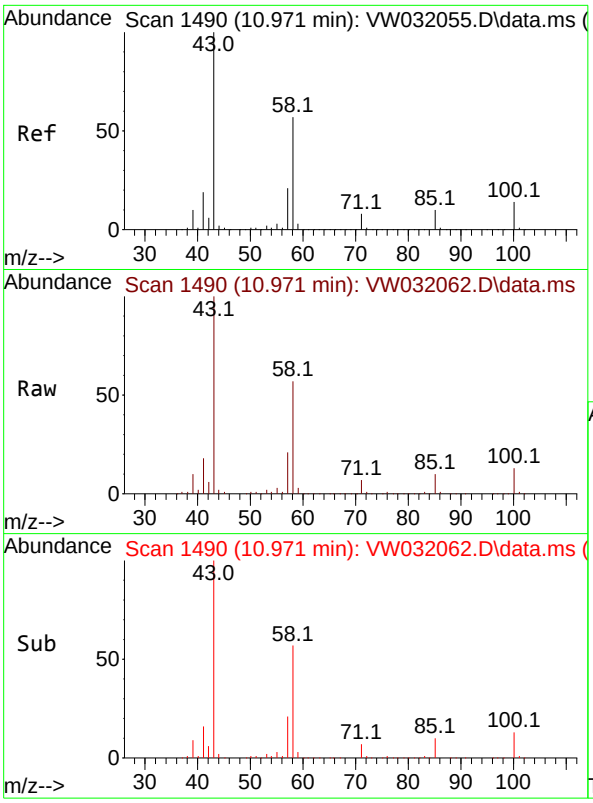


#58
2-Chloroethyl Vinyl ether
Concen: 100.139 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 192035

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.5	35.3

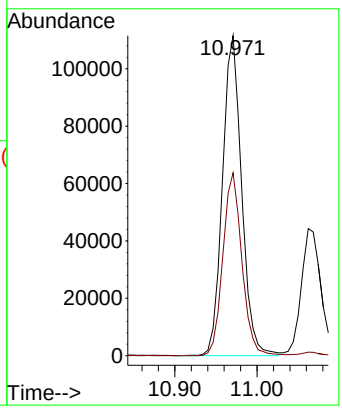




#59
2-Hexanone
Concen: 106.193 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 18094

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0



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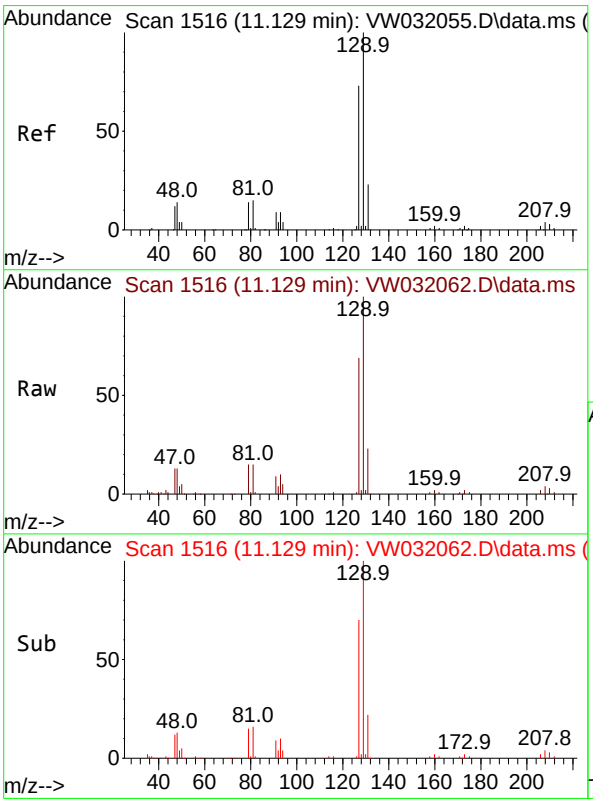
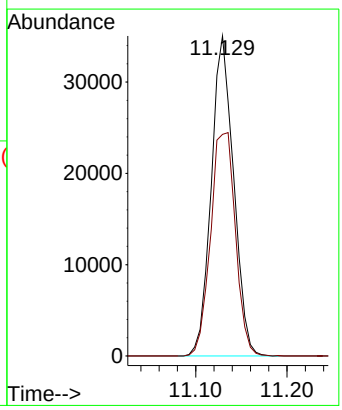
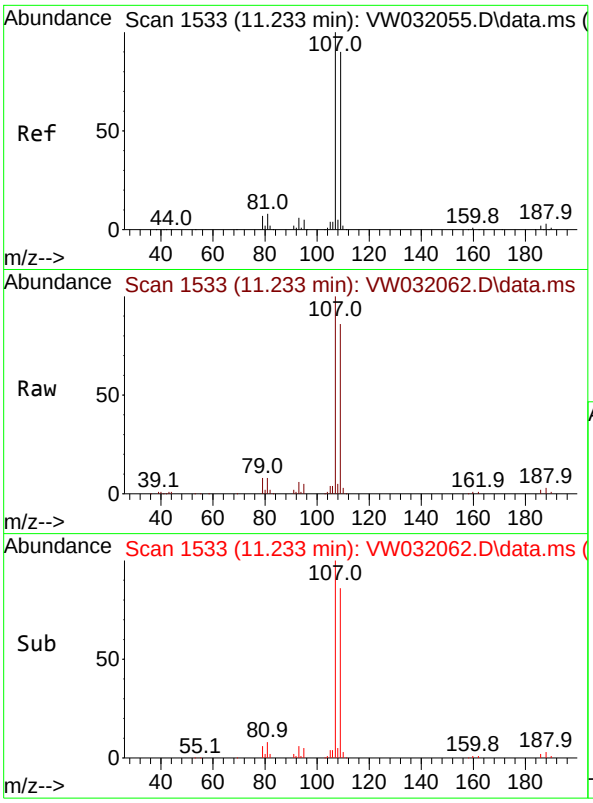


#60
Dibromochloromethane
Concen: 20.081 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:129 Resp: 59430

Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.0	116.9

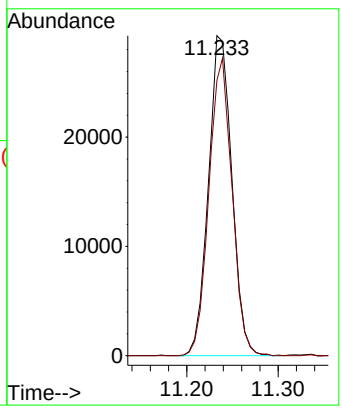




#61
1,2-Dibromoethane
Concen: 20.693 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:107 Resp: 5210

Ion	Ratio	Lower	Upper
107	100		
109	91.7	74.2	111.4



Instrument :
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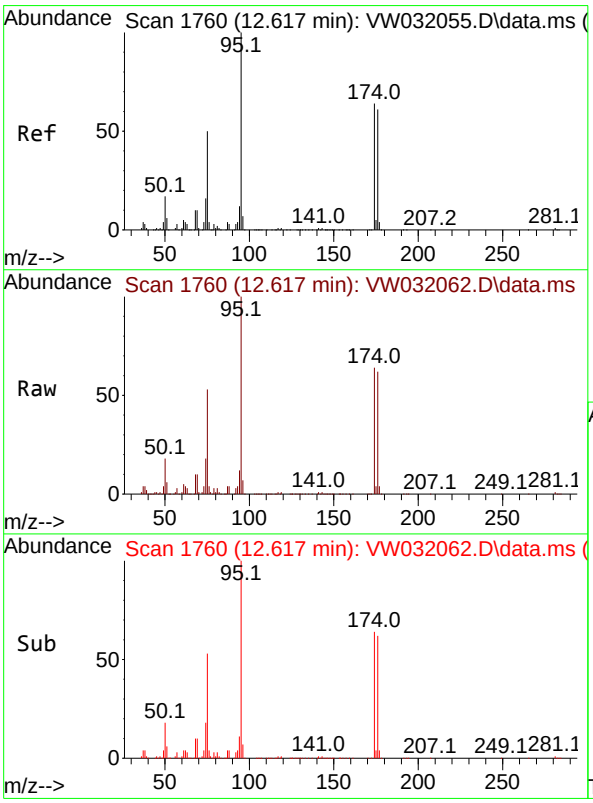
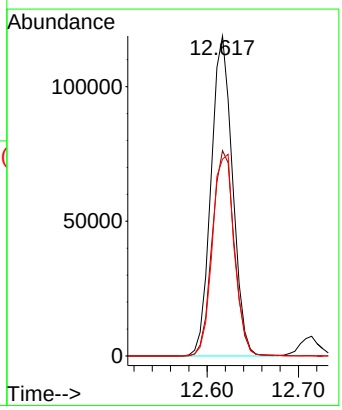
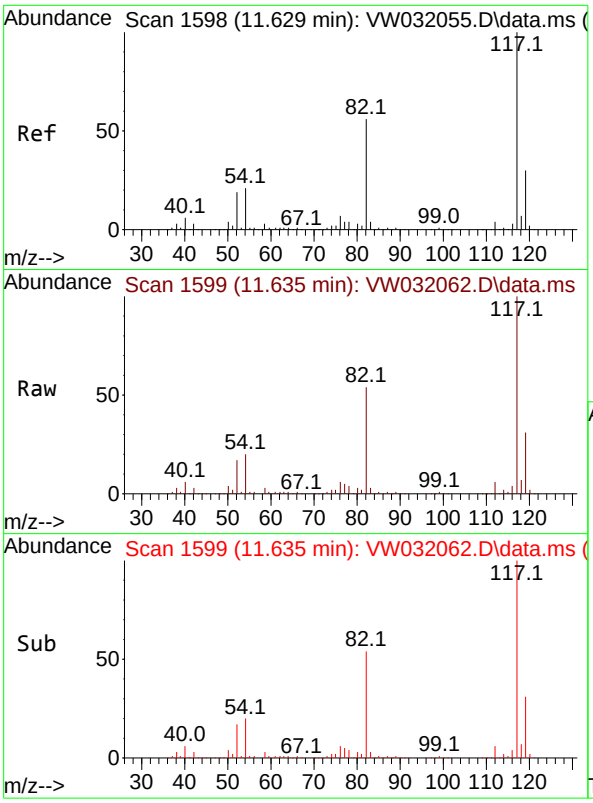


#62
4-Bromofluorobenzene
Concen: 49.782 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 95 Resp: 193625

Ion	Ratio	Lower	Upper
95	100		
174	65.9	0.0	129.0
176	64.6	0.0	124.6

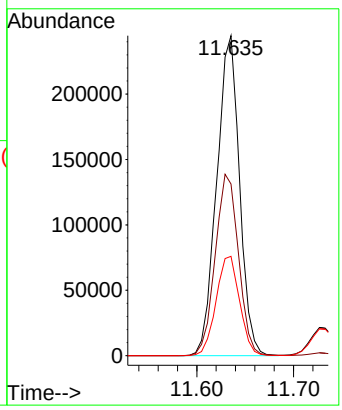




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 40024

Ion	Ratio	Lower	Upper
117	100		
82	53.6	45.0	67.4
119	31.1	24.2	36.4



Instrument :
MSVOA_W
ClientSampleId :
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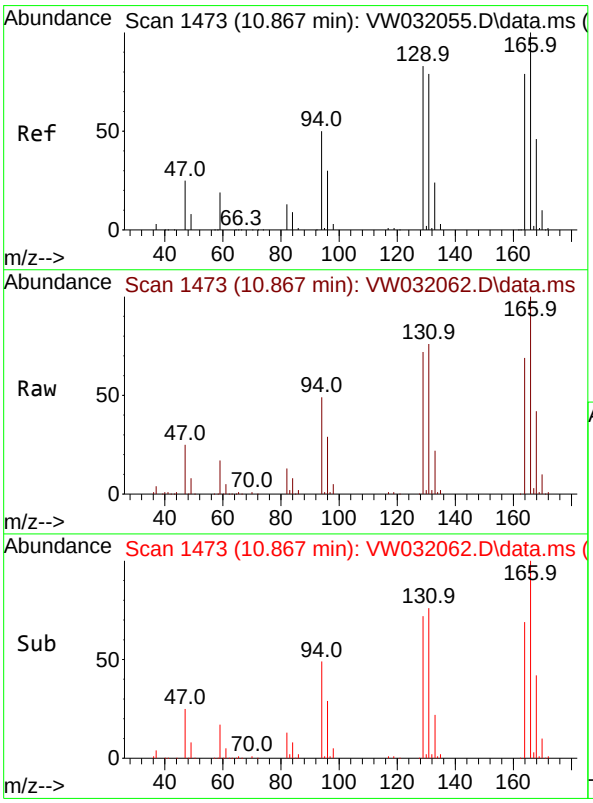
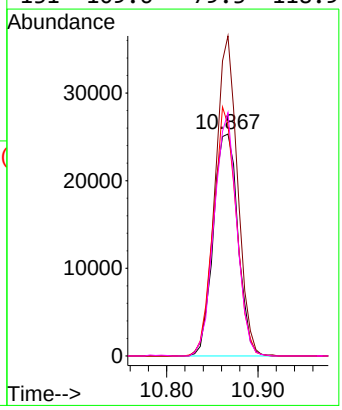
Supervised By :Semsettin Yesilyurt 08/12/2025

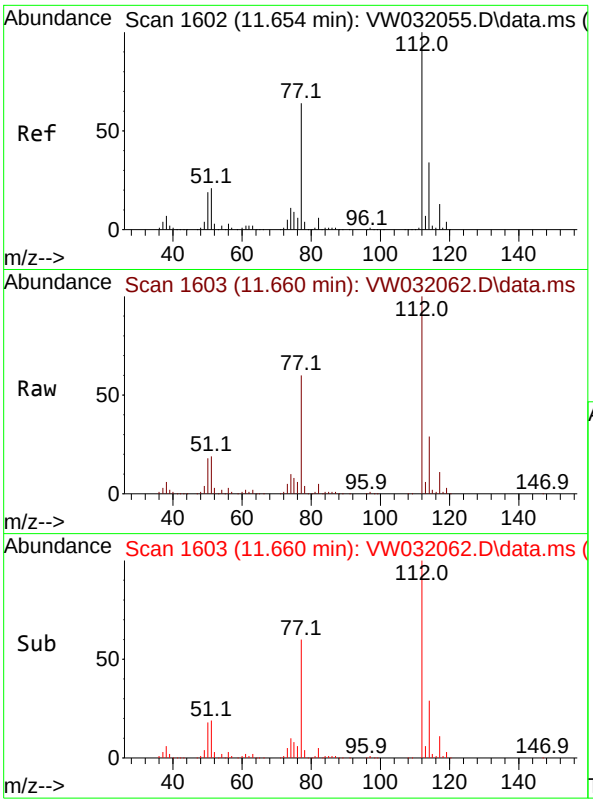


#64
Tetrachloroethene
Concen: 20.534 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:164 Resp: 47470

Ion	Ratio	Lower	Upper
164	100		
166	144.2	100.9	151.3
129	104.1	83.6	125.4
131	109.6	79.3	118.9

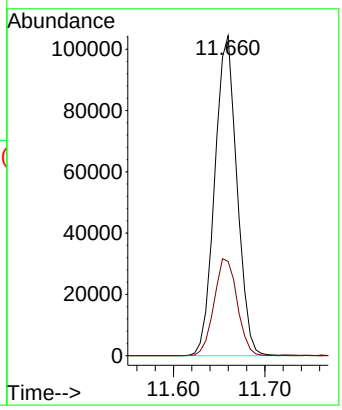




#65
Chlorobenzene
Concen: 20.247 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:112 Resp: 17639

Ion	Ratio	Lower	Upper
112	100		
114	29.5	26.9	40.3



Instrument :
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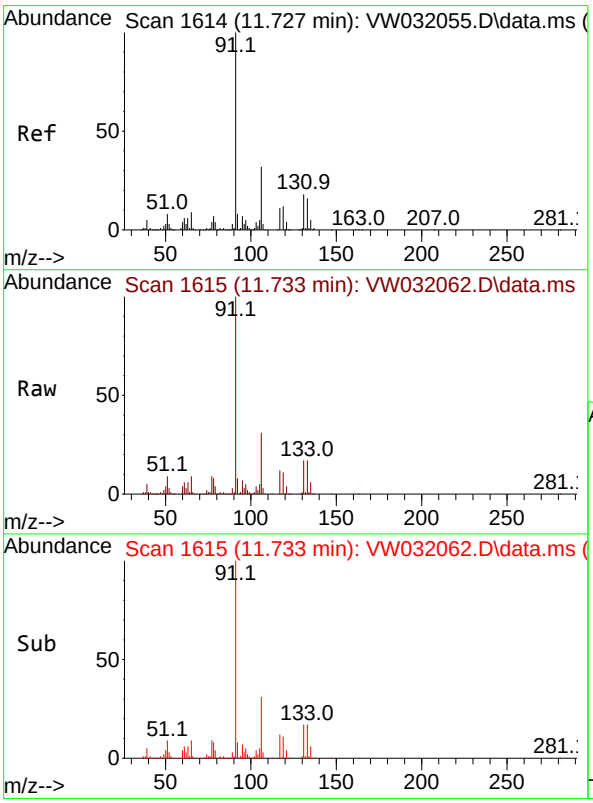
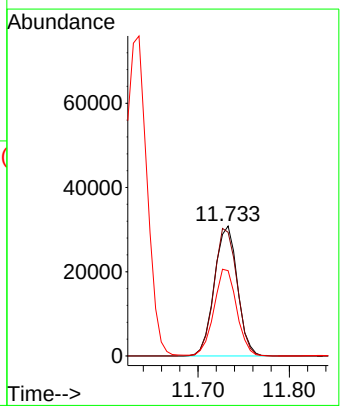
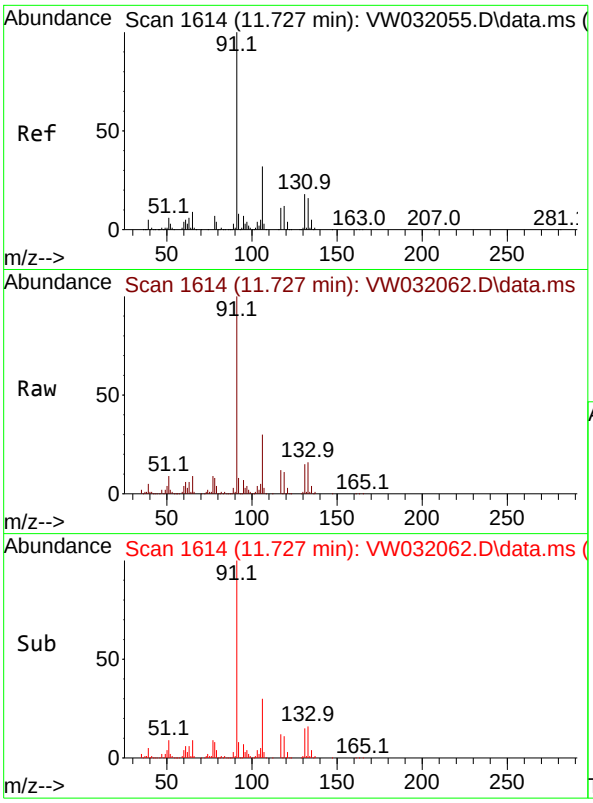


#66
1,1,1,2-Tetrachloroethane
Concen: 19.988 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:131 Resp: 54330

Ion	Ratio	Lower	Upper
131	100		
133	97.9	47.3	142.0
119	65.8	34.5	103.5

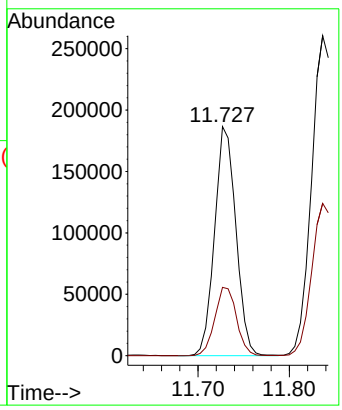




#67
Ethyl Benzene
Concen: 20.500 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 30250

Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.4	38.0



Instrument :
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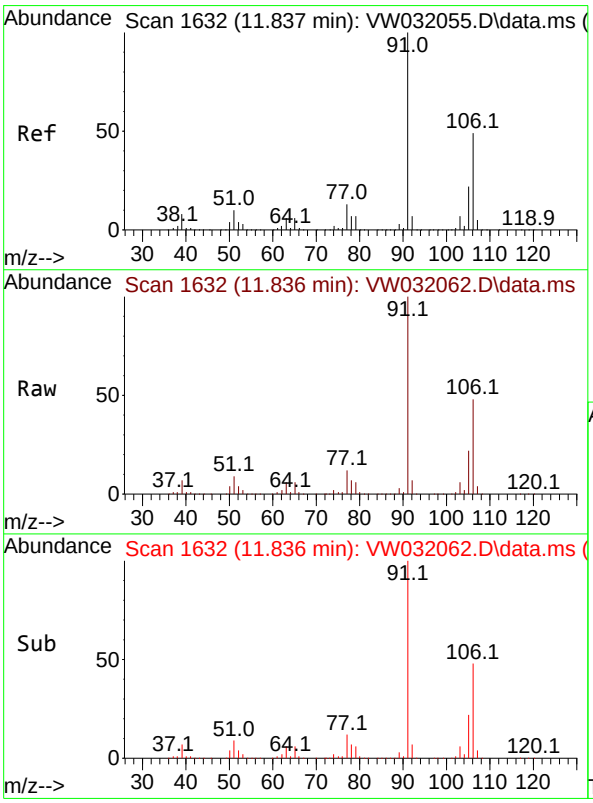
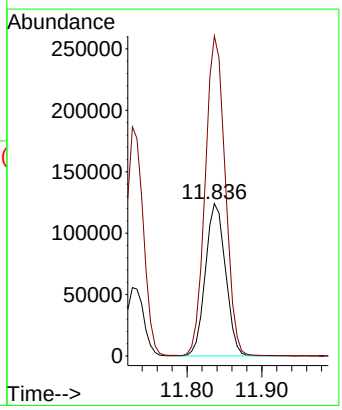
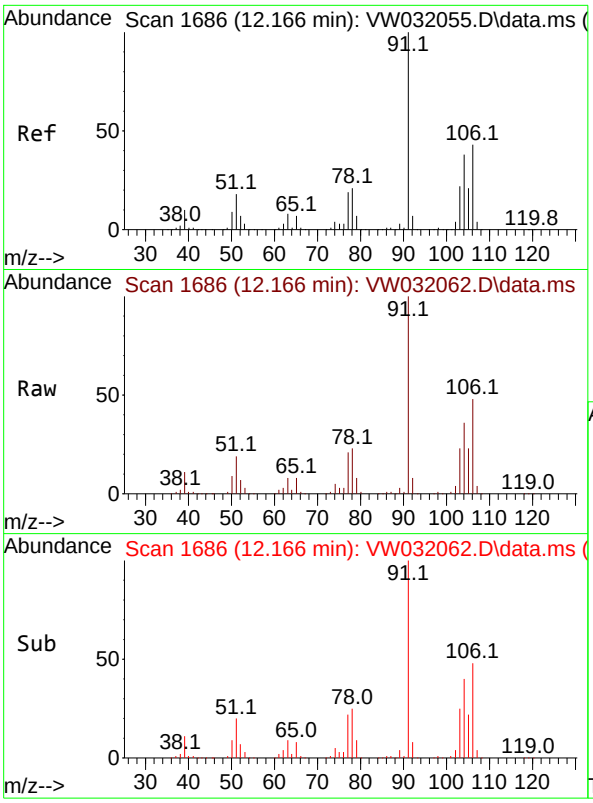


#68
m/p-Xylenes
Concen: 40.725 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:106 Resp: 231893

Ion	Ratio	Lower	Upper
106	100		
91	208.5	162.2	243.2

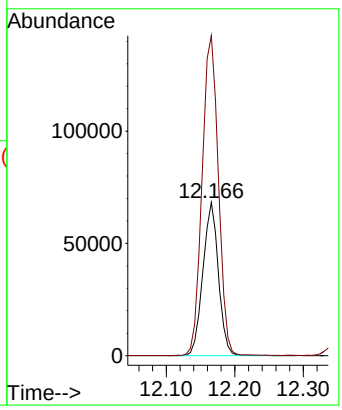




#69
o-Xylene
Concen: 20.434 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:106 Resp: 10754

Ion	Ratio	Lower	Upper
106	100		
91	220.1	110.8	332.3



Instrument :
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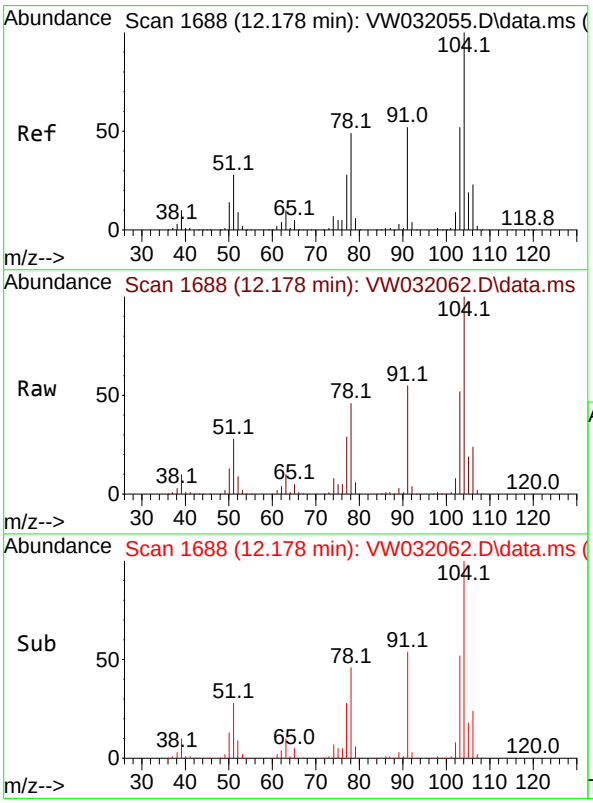
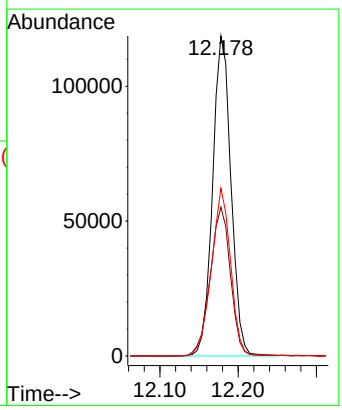
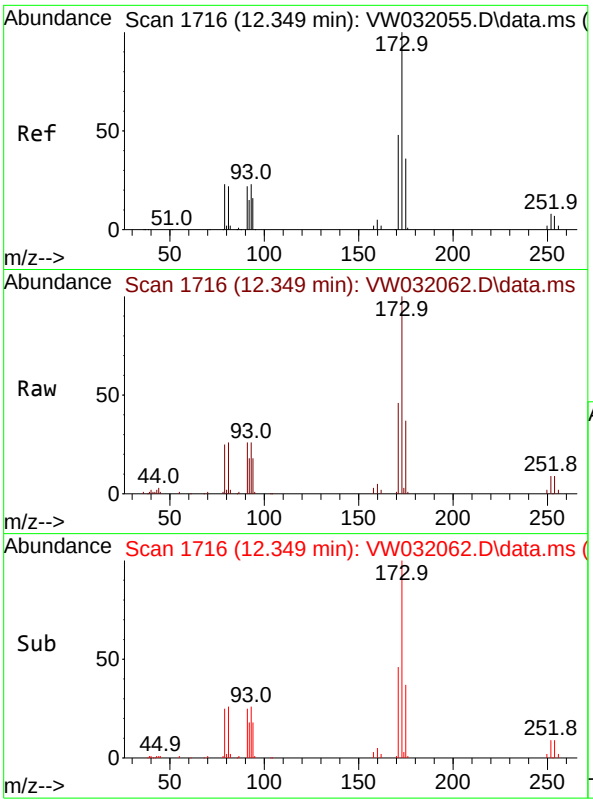


#70
Styrene
Concen: 20.761 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:104 Resp: 194078

Ion	Ratio	Lower	Upper
104	100		
78	51.2	41.2	61.8
103	54.8	43.8	65.8

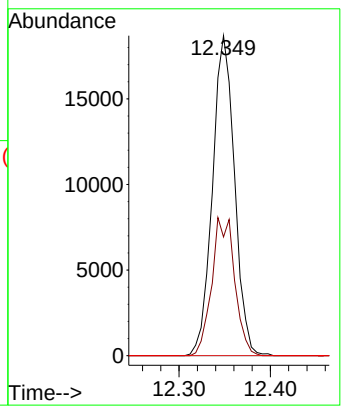




#71
Bromoform
Concen: 20.163 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:173 Resp: 3135

Ion	Ratio	Lower	Upper
173	100		
175	44.8	22.9	68.7
254	0.0	0.0	0.0



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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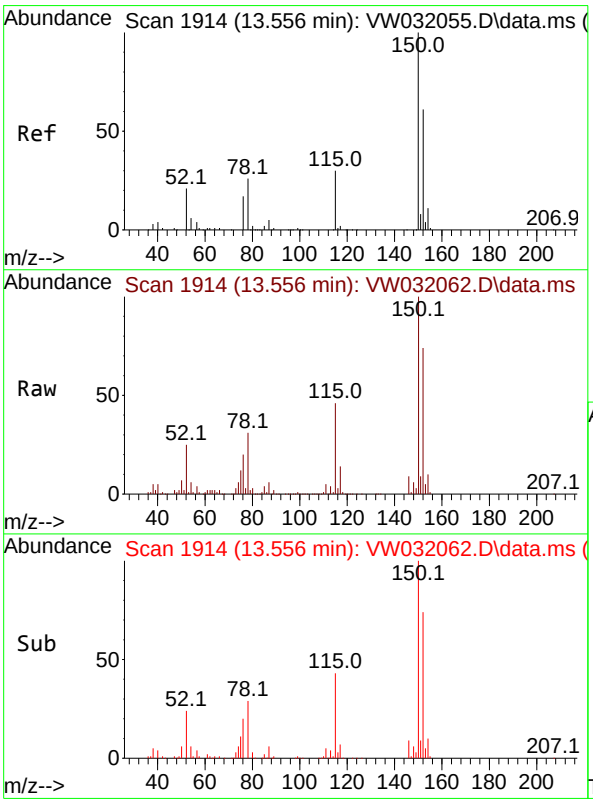
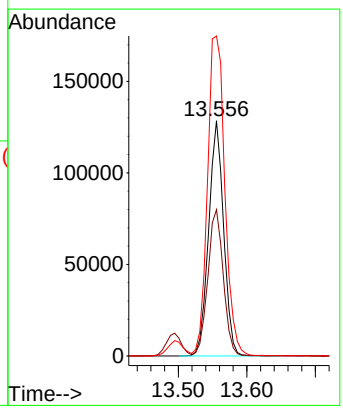
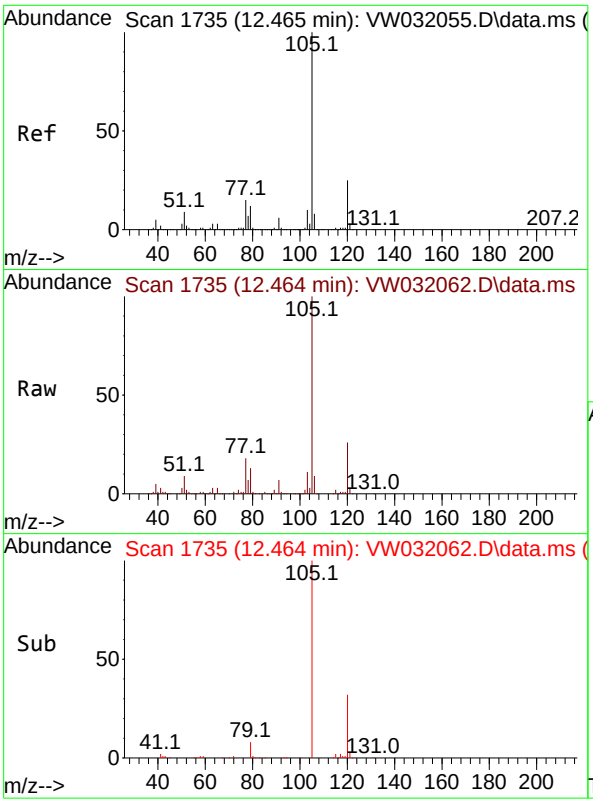


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:152 Resp: 195548

Ion	Ratio	Lower	Upper
152	100		
115	64.4	32.6	97.8
150	157.8	0.0	359.4

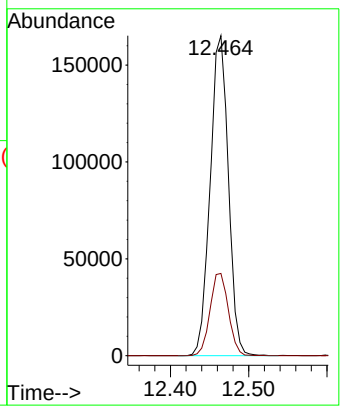




#73
Isopropylbenzene
Concen: 19.494 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 26640

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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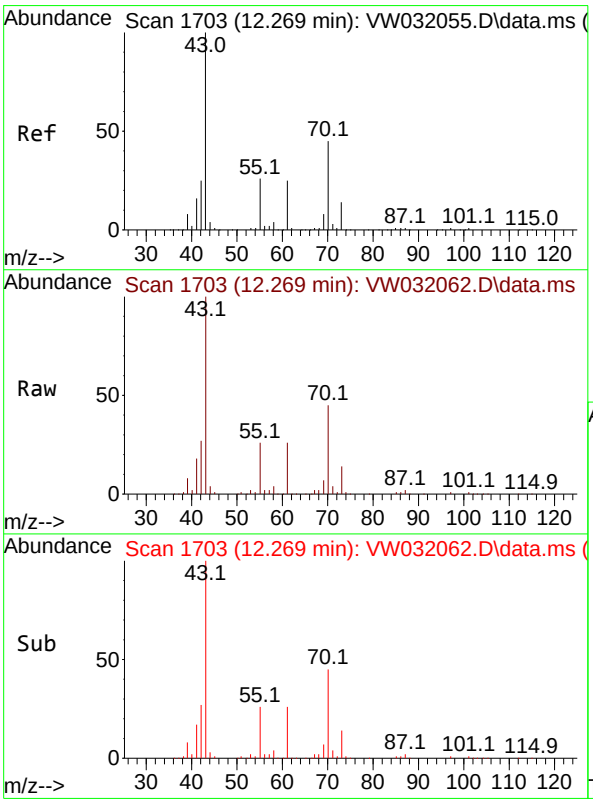
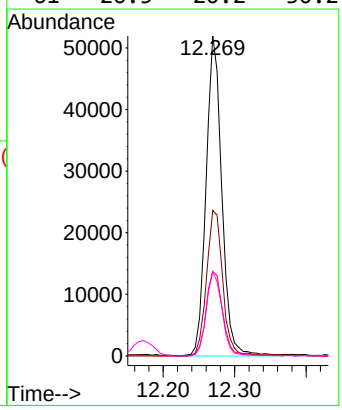
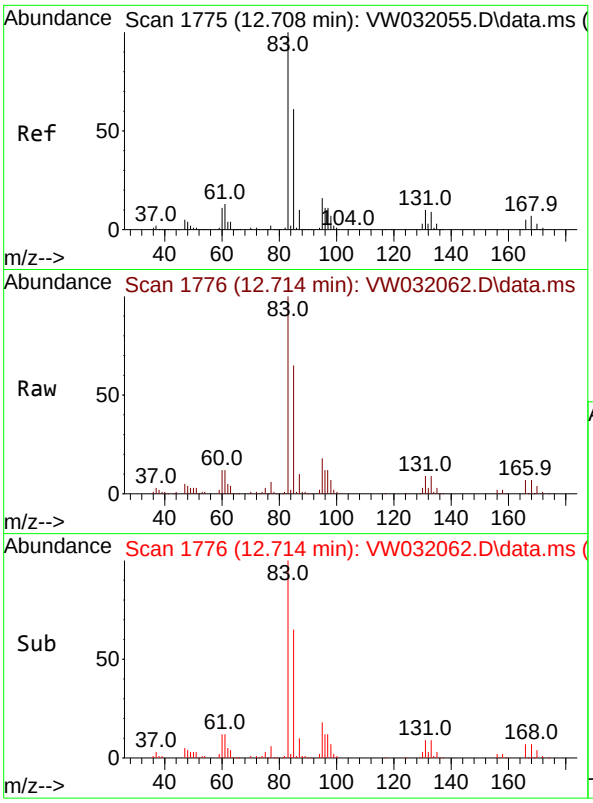


#74
N-amyl acetate
Concen: 20.275 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 79492

Ion	Ratio	Lower	Upper
43	100		
70	46.9	37.0	55.4
55	28.4	21.1	31.7
61	26.5	20.2	30.2

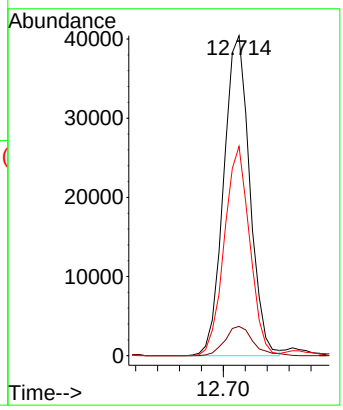




#75
1,1,2,2-Tetrachloroethane
Concen: 20.539 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 6664

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	63.7	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
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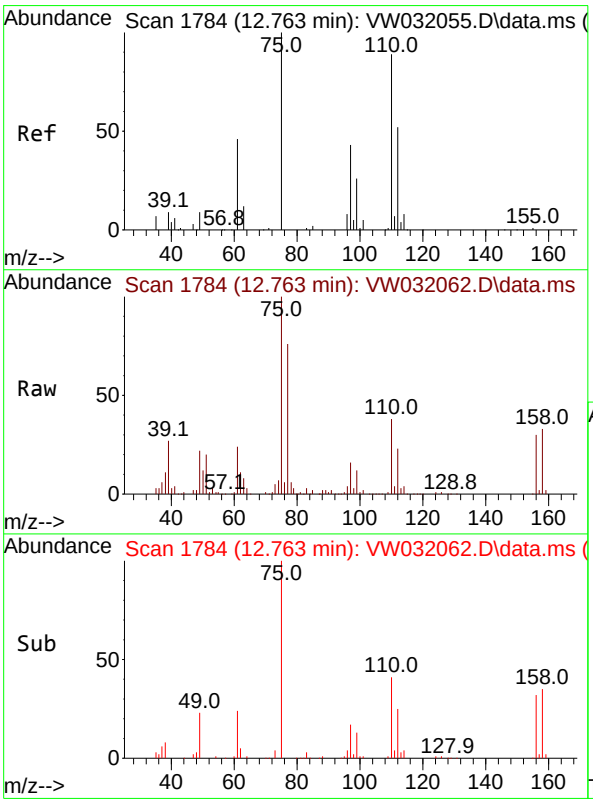
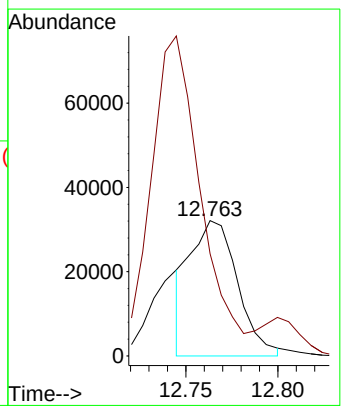
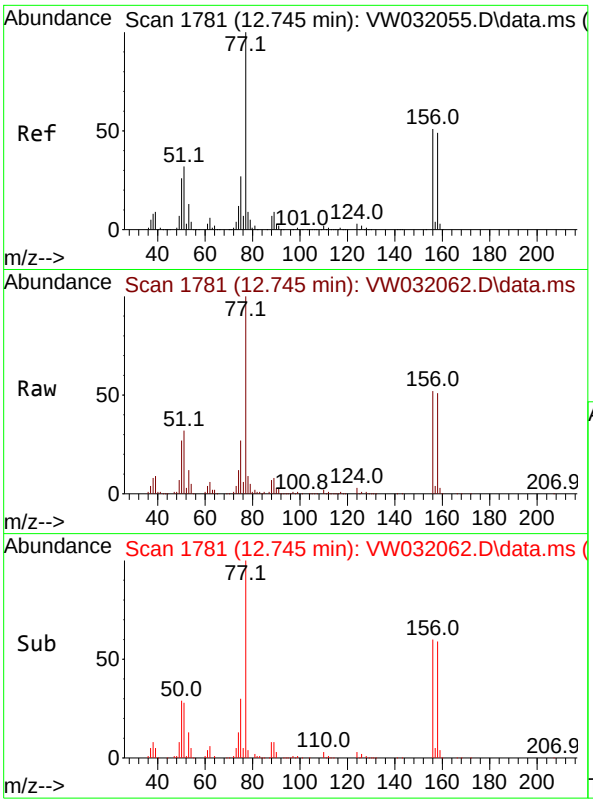


#76
1,2,3-Trichloropropane
Concen: 21.730 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 57672

Ion	Ratio	Lower	Upper
75	100		
77	246.5	123.5	370.5

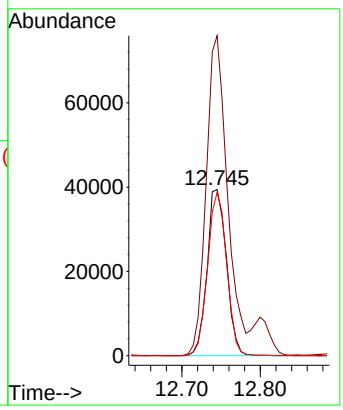




#77
Bromobenzene
Concen: 20.736 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:156 Resp: 6768

Ion	Ratio	Lower	Upper
156	100		
77	210.1	108.7	326.3
158	96.5	48.3	144.9



Instrument :
MSVOA_W
ClientSampleId :
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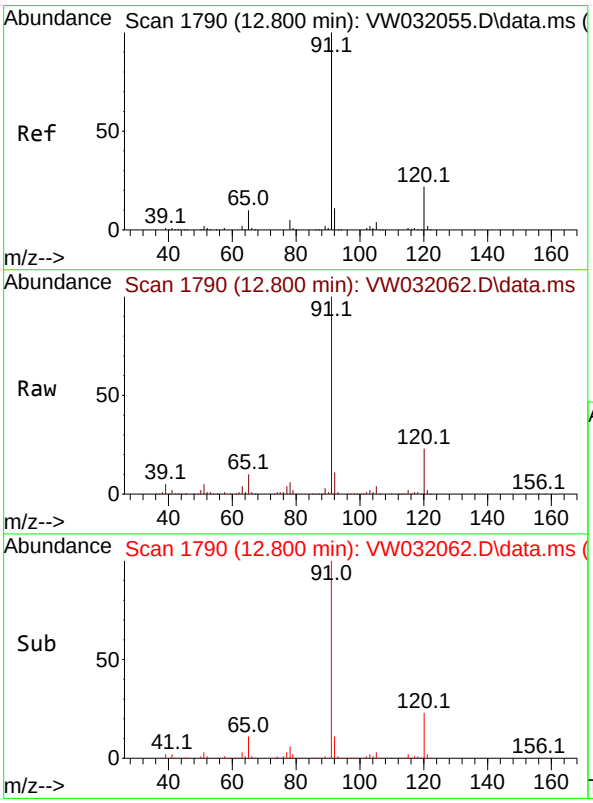
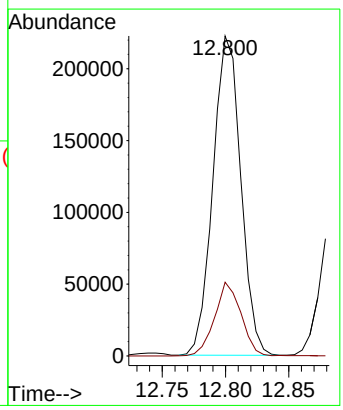
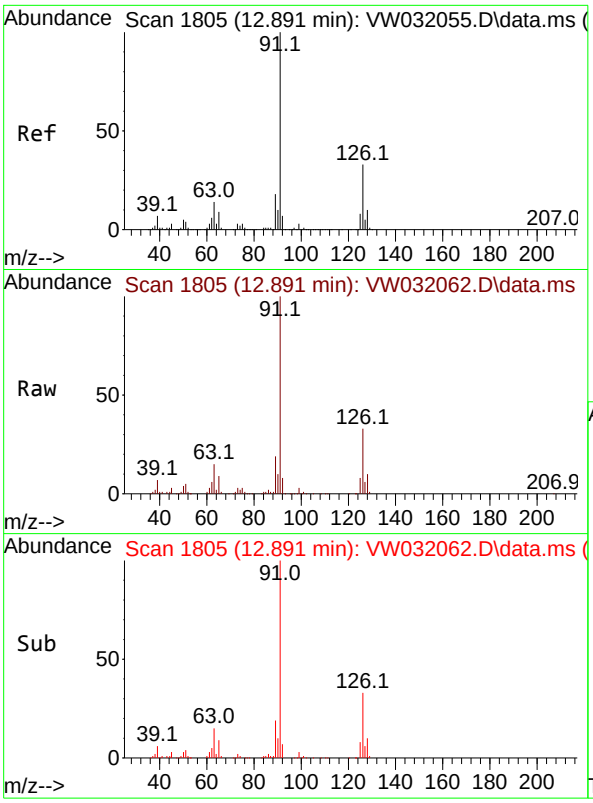


#78
n-propylbenzene
Concen: 20.228 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 340328

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3

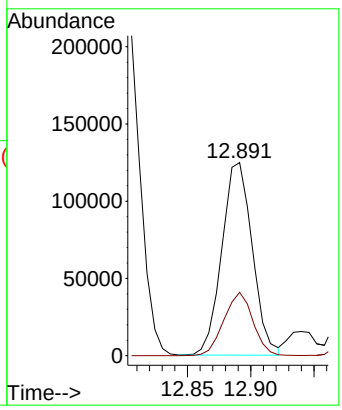




#79
2-Chlorotoluene
Concen: 20.142 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 20914

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.9	47.7



Instrument :
MSVOA_W
ClientSampleId :
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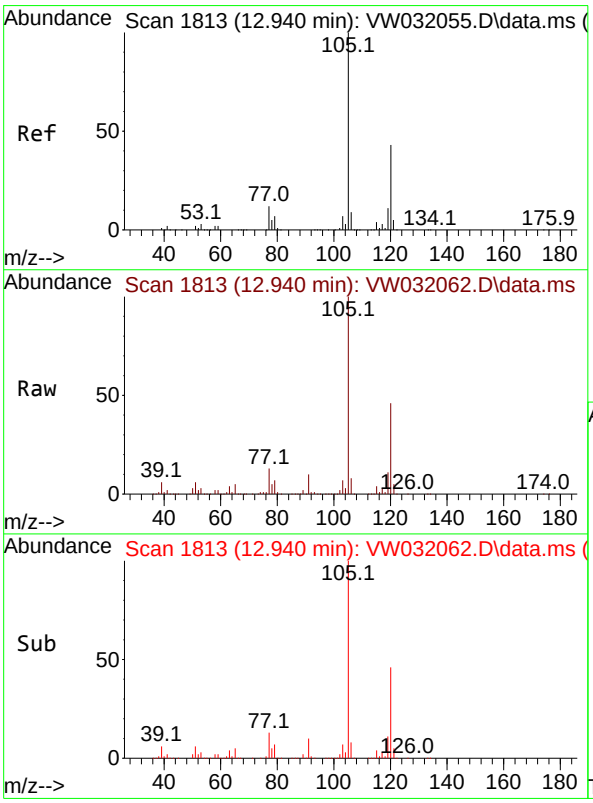
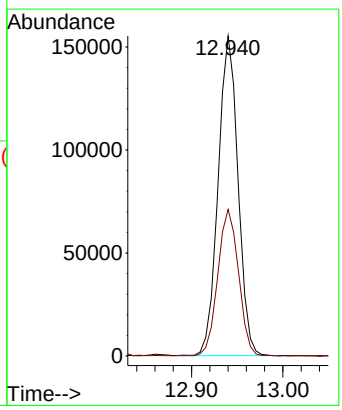
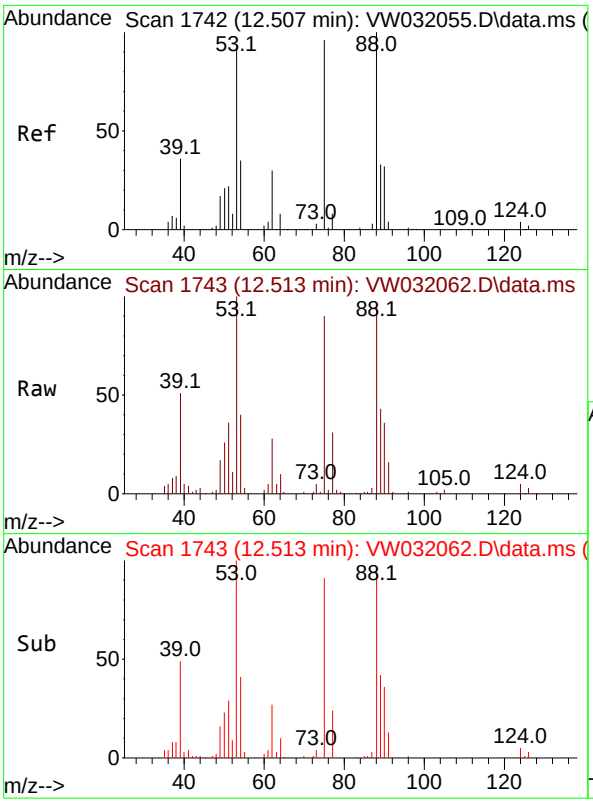


#80
1,3,5-Trimethylbenzene
Concen: 20.250 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 234936

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.4	70.0





#81
trans-1,4-Dichloro-2-butene
Concen: 19.247 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 1973

Ion	Ratio	Lower	Upper
75	100		
53	111.2	81.0	121.6
89	44.6	37.3	55.9

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
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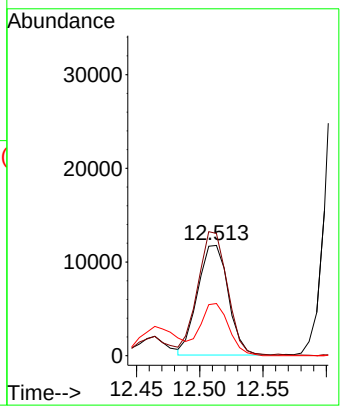
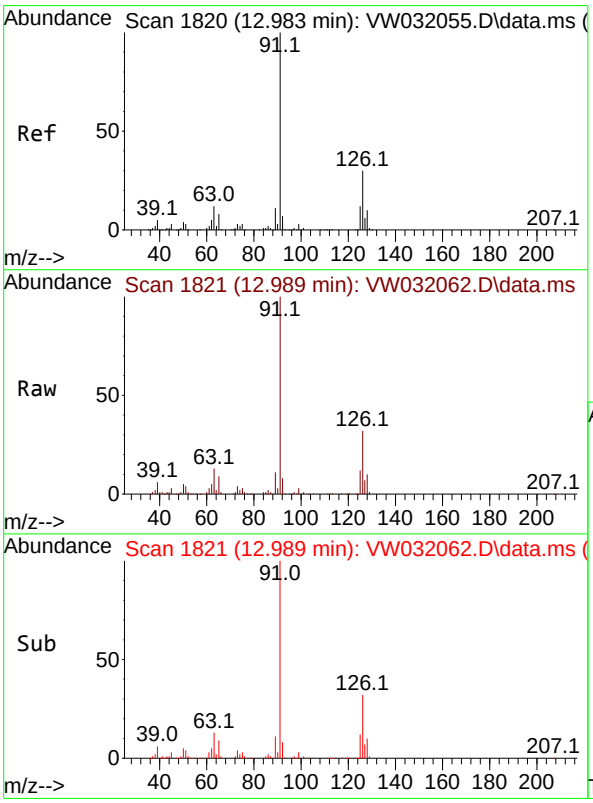
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

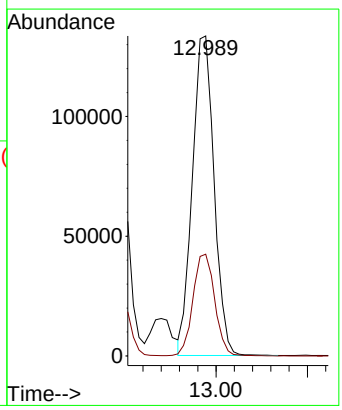


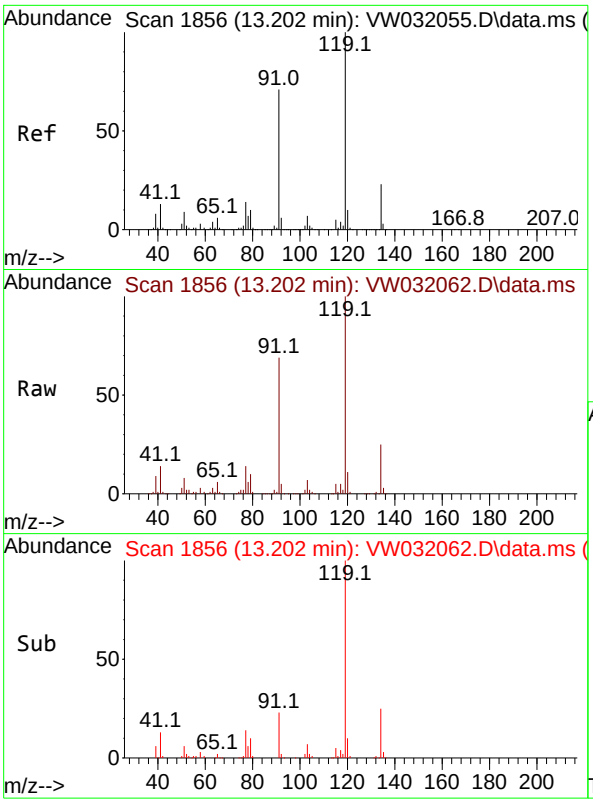


#82
4-Chlorotoluene
Concen: 19.946 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 220054

Ion	Ratio	Lower	Upper
91	100		
126	32.1	15.5	46.5





#83
tert-Butylbenzene
Concen: 20.213 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:119 Resp: 19462

Ion	Ratio	Lower	Upper
119	100		
91	70.1	35.3	105.9
134	24.9	12.1	36.3

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
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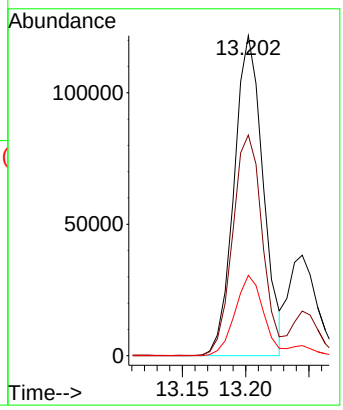
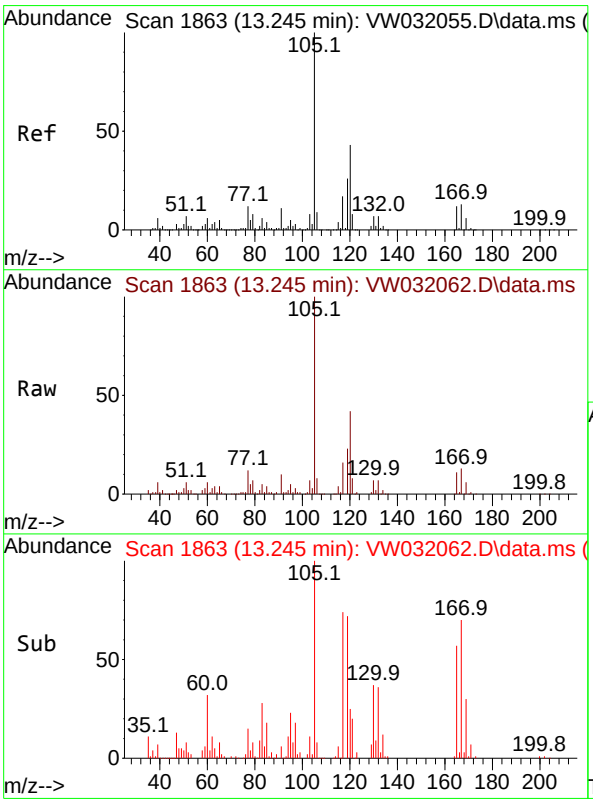
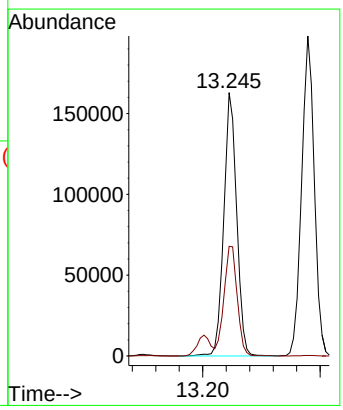


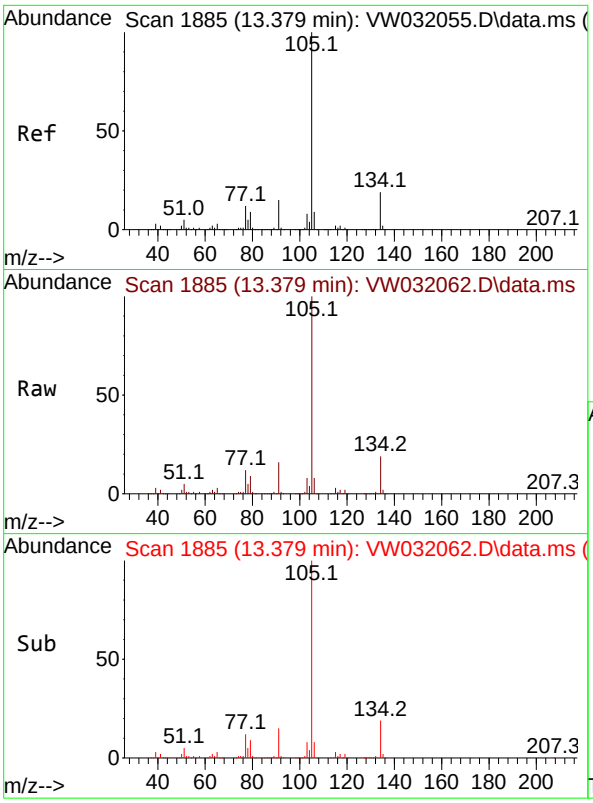


#84
1,2,4-Trimethylbenzene
Concen: 20.972 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 247687

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.6	64.8

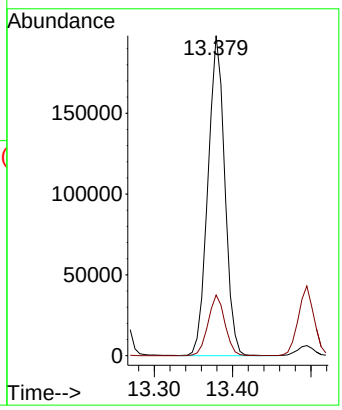




#85
sec-Butylbenzene
Concen: 20.297 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 29547

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.9	29.7



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
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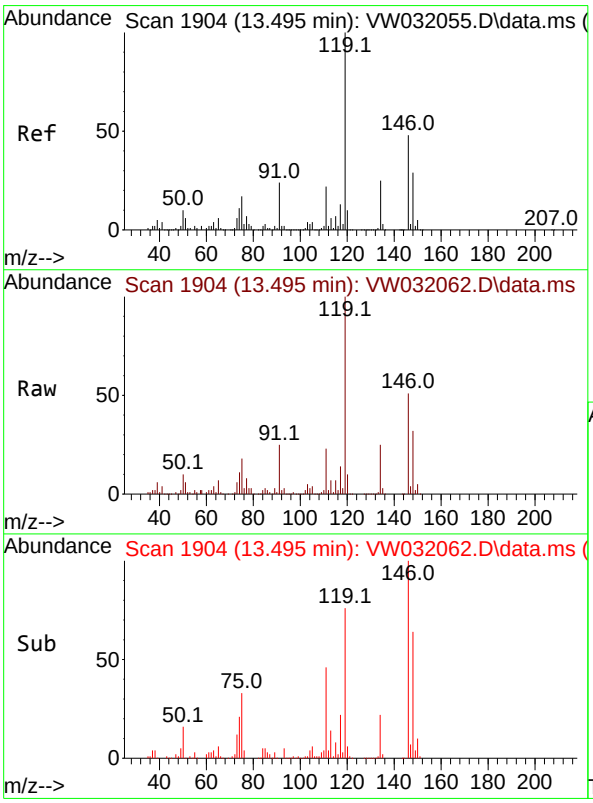
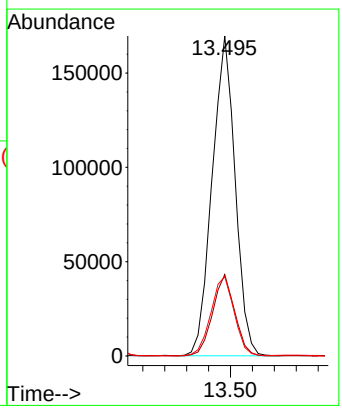
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

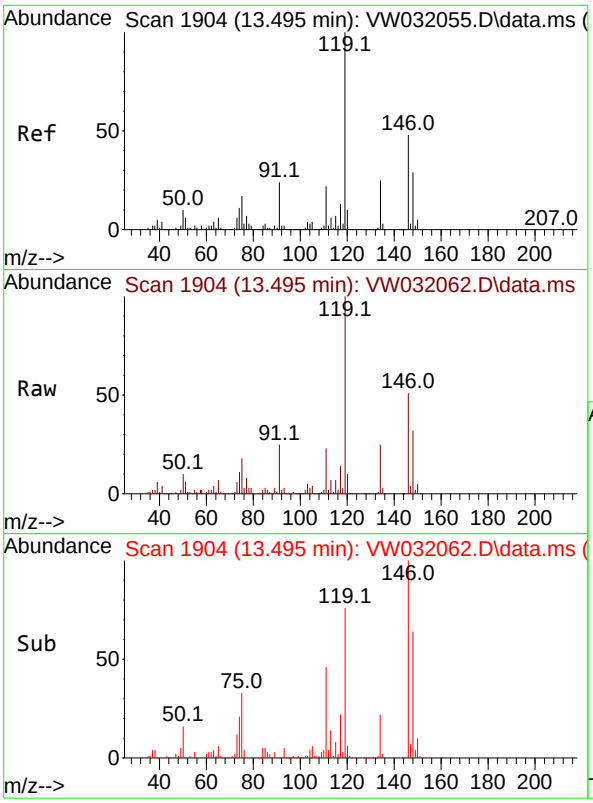


#86
p-Isopropyltoluene
Concen: 20.359 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:119 Resp: 247079

Ion	Ratio	Lower	Upper
119	100		
134	24.4	12.4	37.0
91	25.0	12.1	36.3

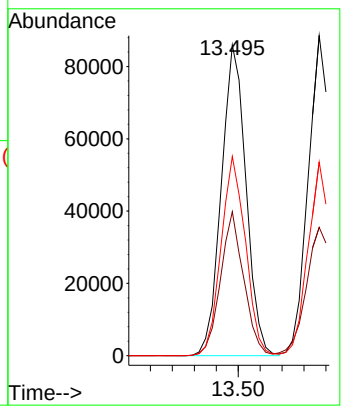




#87
1,3-Dichlorobenzene
Concen: 20.737 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 13468

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.2	63.6
148	63.4	30.3	90.8



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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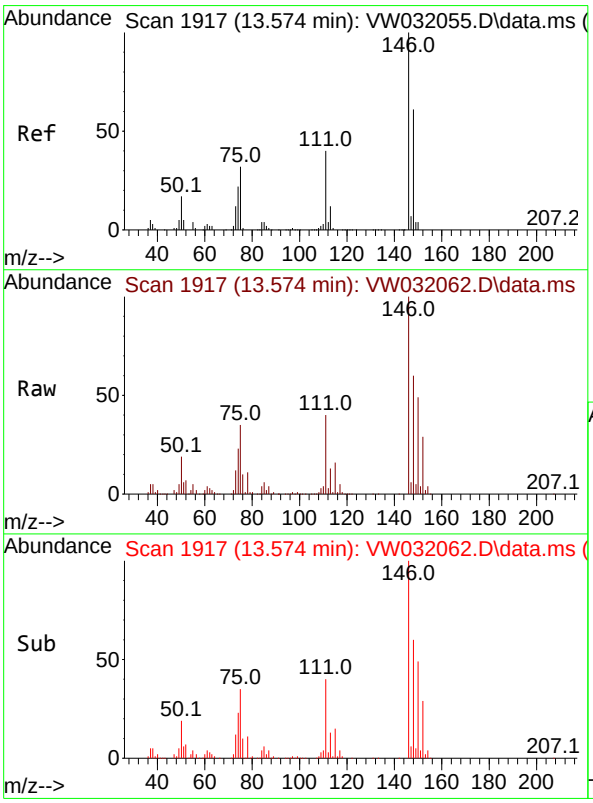
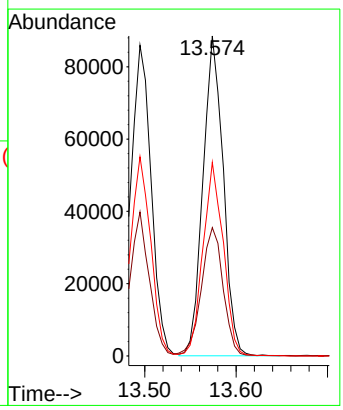
Supervised By :Semsettin Yesilyurt 08/12/2025

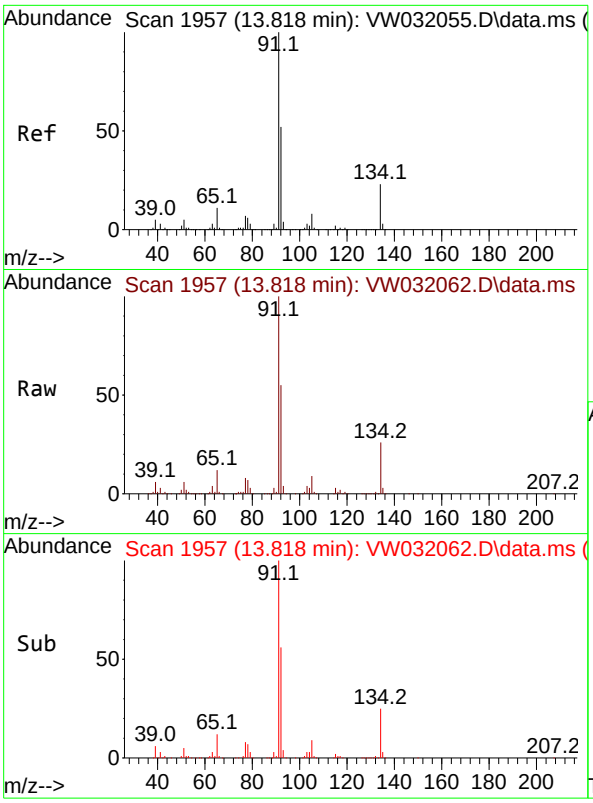


#88
1,4-Dichlorobenzene
Concen: 20.740 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 136123

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	64.6
148	61.0	32.0	96.2

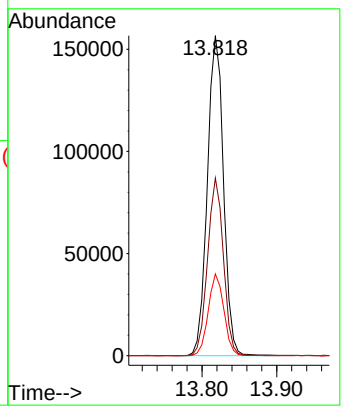




#89
n-Butylbenzene
Concen: 19.961 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 23534

Ion	Ratio	Lower	Upper
91	100		
92	54.5	26.7	80.1
134	24.8	12.0	36.1



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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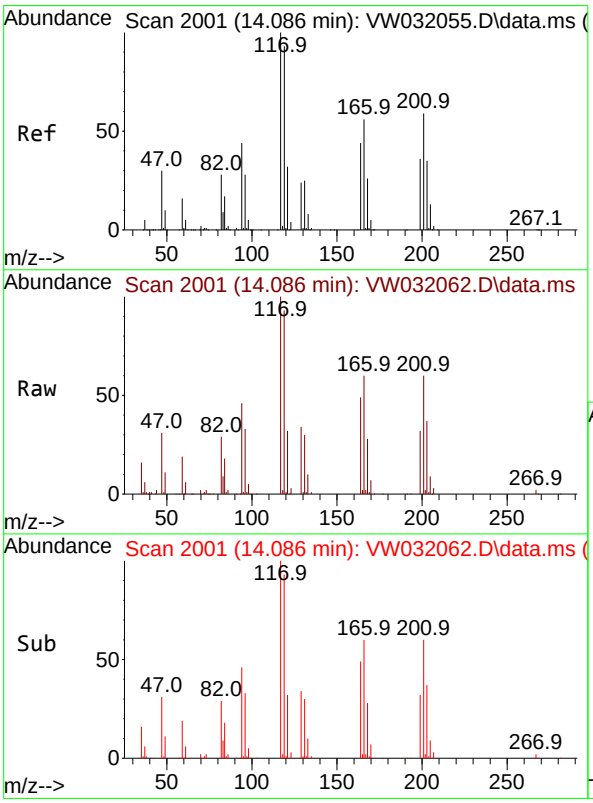
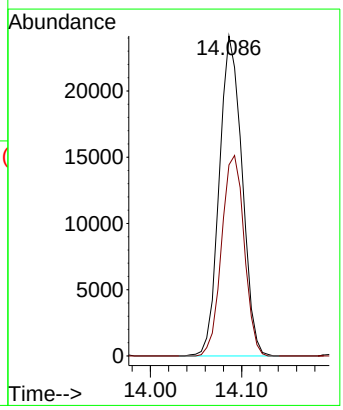
Supervised By :Semsettin Yesilyurt 08/12/2025

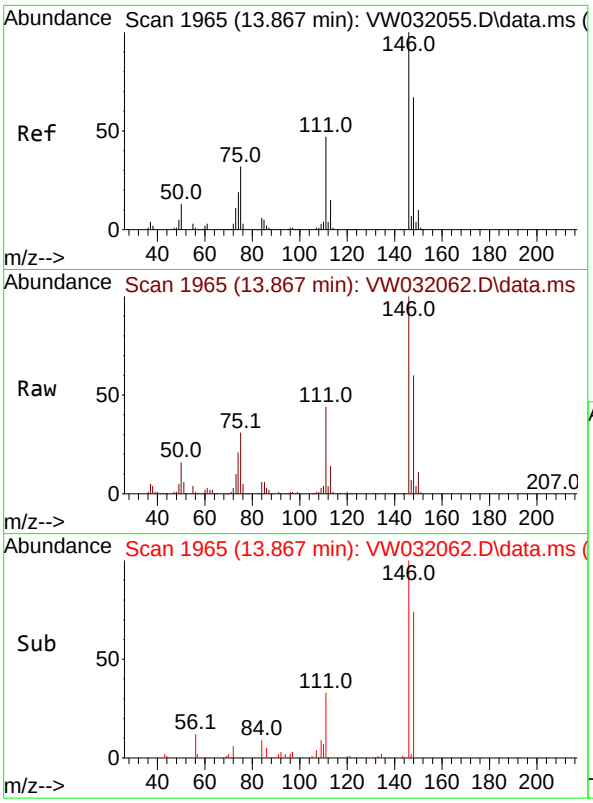


#90
Hexachloroethane
Concen: 18.827 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 41787

Ion	Ratio	Lower	Upper
117	100		
201	62.2	30.9	92.5

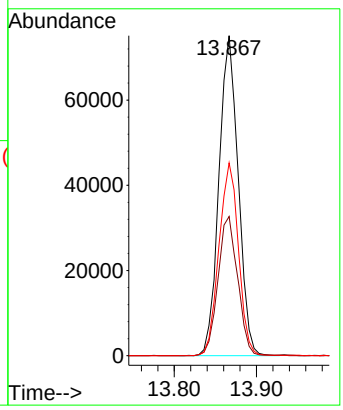




#91
1,2-Dichlorobenzene
Concen: 20.808 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 12242

Ion	Ratio	Lower	Upper
146	100		
111	44.5	23.1	69.3
148	61.0	32.9	98.6



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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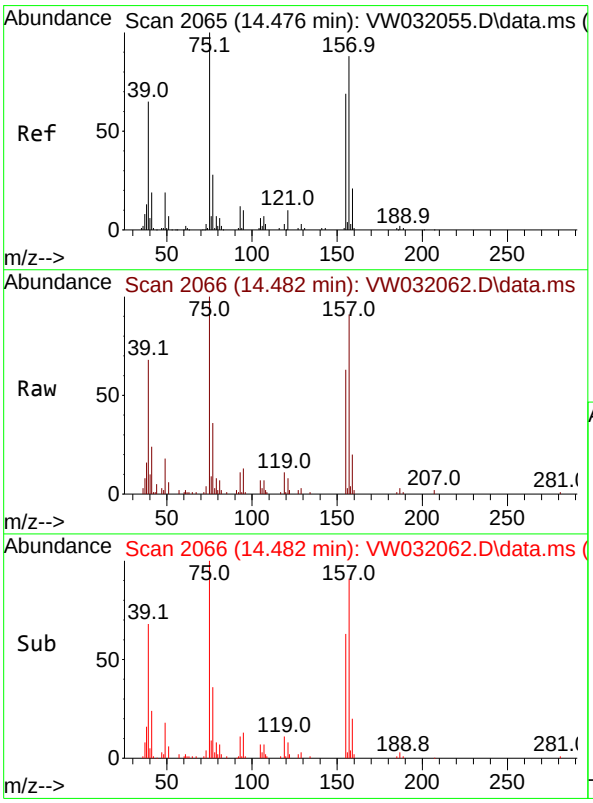
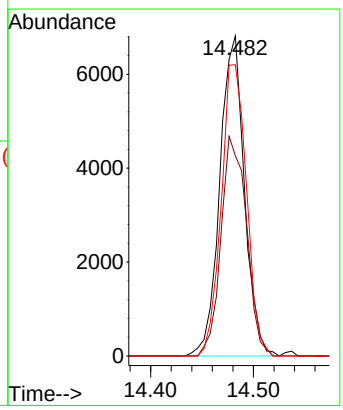
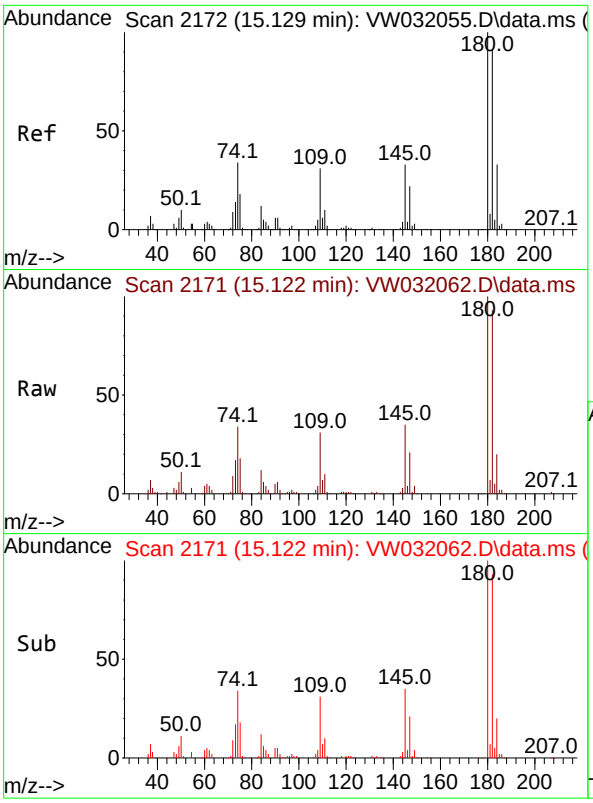


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.597 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 11304

Ion	Ratio	Lower	Upper
75	100		
155	70.9	35.2	105.6
157	93.4	47.5	142.6

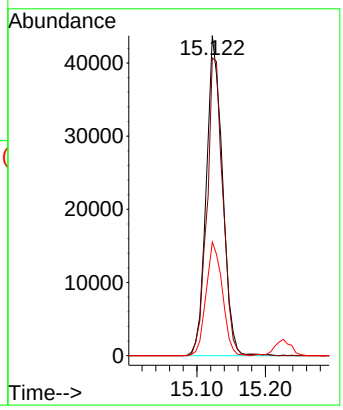




#93
1,2,4-Trichlorobenzene
Concen: 20.416 ug/l
RT: 15.122 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:180 Resp: 7185

Ion	Ratio	Lower	Upper
180	100		
182	92.0	49.0	147.0
145	35.7	17.3	51.9



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

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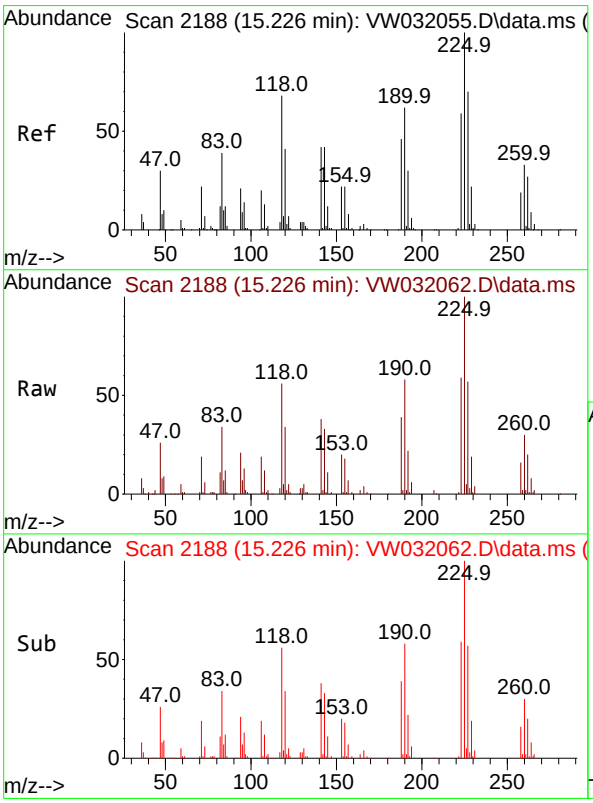
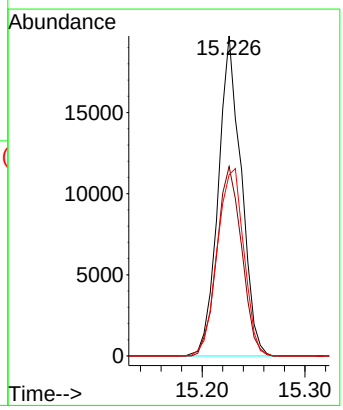
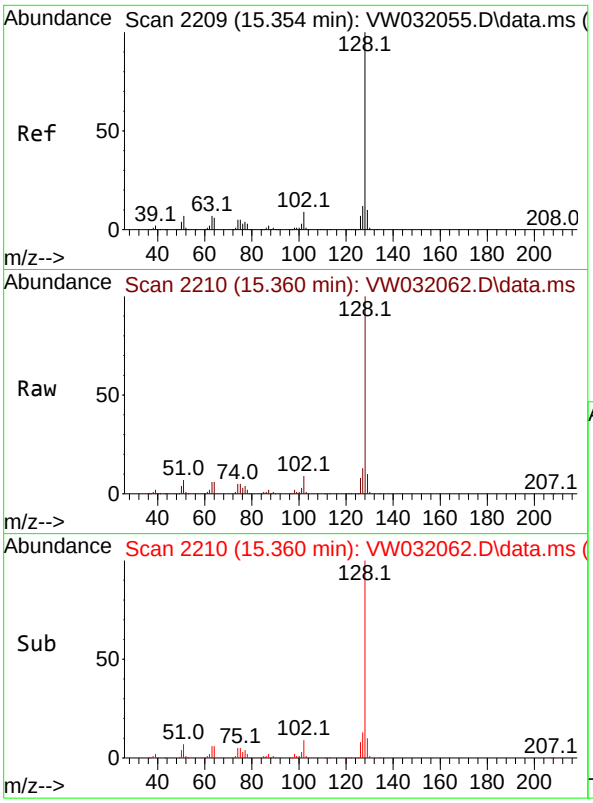


#94
Hexachlorobutadiene
Concen: 19.444 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:225 Resp: 30590

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.8	95.3
227	67.7	33.5	100.5

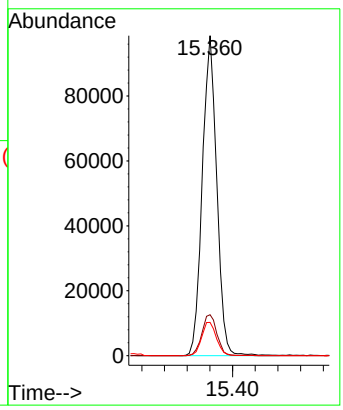




#95
Naphthalene
Concen: 20.223 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:128 Resp: 17440

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	10.7	8.2	12.4



Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Manual Integrations
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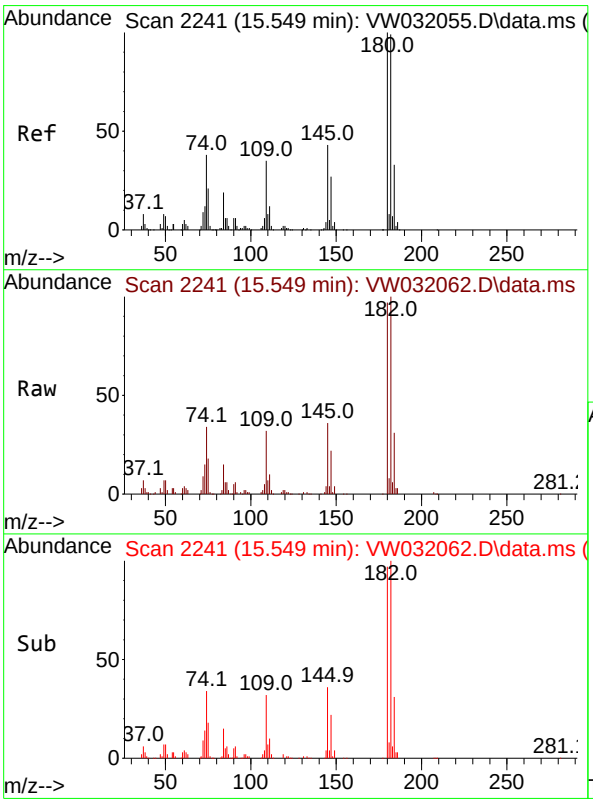
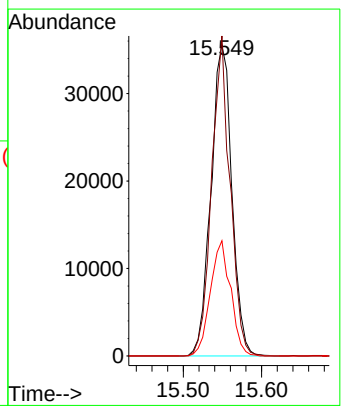


#96
1,2,3-Trichlorobenzene
Concen: 20.606 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:180 Resp: 65985

Ion	Ratio	Lower	Upper
180	100		
182	90.5	46.0	138.0
145	36.0	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
VW0811SBS01	VW032061.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:47 PM	SAM	8/12/2025 1:14:04 PM	Peak Integrated by Software
VW0811SBSD01	VW032062.D	1,2,3-Trichloropropane	MMDadoda	8/12/2025 1:10:46 PM	SAM	8/12/2025 1:14:05 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:	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:	VY081325	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023059.D	1,2,3-Trichloropropane	MMDadoda	8/18/2025 8:46:10 AM	SAM	8/19/2025 4:13:39 AM	Peak Integrated by Software
VY0813SBS01	VY023061.D	1,2,3-Trichloropropane	MMDadoda	8/18/2025 8:46:12 AM	SAM	8/19/2025 4:13:40 AM	Peak Integrated by Software
VY0813SBS01	VY023061.D	Methacrylonitrile	MMDadoda	8/18/2025 8:46:12 AM	SAM	8/19/2025 4:13:40 AM	Peak Integrated by Software
Q2819-07	VY023069.D	n-Butylbenzene	MMDadoda	8/18/2025 8:46:19 AM	SAM	8/19/2025 4:13:42 AM	Peak Integrated by Software
VSTDCCC050	VY023082.D	1,2,3-Trichloropropane	MMDadoda	8/18/2025 8:46:20 AM	SAM	8/19/2025 4:13:43 AM	Peak Integrated by Software
VSTDCCC050	VY023082.D	Methacrylonitrile	MMDadoda	8/18/2025 8:46:20 AM	SAM	8/19/2025 4:13:43 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY081425	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023084.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:18:21 AM	MMDadoda	8/19/2025 4:22:49 AM	Peak Integrated by Software
VY0814SBS01	VY023086.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:18:23 AM	MMDadoda	8/19/2025 4:22:50 AM	Peak Integrated by Software
VSTDCCC050	VY023109.D	1,2,3-Trichloropropane	SAM	8/19/2025 4:18:27 AM	MMDadoda	8/19/2025 4:22:53 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_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 # VY081325

Review By	Mahesh Dadoda	Review On	8/18/2025 8:46:30 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 4:18:05 AM		
SubDirectory	VY081325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135111
Initial Calibration Stds	
CCC	VP135112,VP135113
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	VY023058.D	13 Aug 2025 08:21	SY/MD	Ok
2	VSTDCCC050	VY023059.D	13 Aug 2025 09:37	SY/MD	Ok,M
3	VY0813SBL01	VY023060.D	13 Aug 2025 10:39	SY/MD	Ok
4	VY0813SBS01	VY023061.D	13 Aug 2025 11:09	SY/MD	Ok,M
5	VY0813SBSD01	VY023062.D	13 Aug 2025 11:32	SY/MD	Ok,M
6	Q2831-02	VY023063.D	13 Aug 2025 12:34	SY/MD	Ok
7	Q2830-01	VY023064.D	13 Aug 2025 12:58	SY/MD	Ok
8	Q2830-03	VY023065.D	13 Aug 2025 13:21	SY/MD	Ok
9	Q2830-05	VY023066.D	13 Aug 2025 13:45	SY/MD	ReRun
10	Q2830-07	VY023067.D	13 Aug 2025 14:08	SY/MD	Ok
11	Q2827-03	VY023068.D	13 Aug 2025 14:32	SY/MD	Ok
12	Q2819-07	VY023069.D	13 Aug 2025 14:55	SY/MD	Ok,M
13	Q2819-08	VY023070.D	13 Aug 2025 15:19	SY/MD	Ok
14	Q2819-09	VY023071.D	13 Aug 2025 15:43	SY/MD	Ok
15	Q2819-10	VY023072.D	13 Aug 2025 16:06	SY/MD	ReRun
16	Q2819-11	VY023073.D	13 Aug 2025 16:30	SY/MD	ReRun
17	Q2819-12	VY023074.D	13 Aug 2025 16:53	SY/MD	Ok
18	Q2819-13	VY023075.D	13 Aug 2025 17:17	SY/MD	Ok
19	Q2819-14	VY023076.D	13 Aug 2025 17:40	SY/MD	Ok
20	Q2819-15	VY023077.D	13 Aug 2025 18:04	SY/MD	ReRun
21	Q2819-16	VY023078.D	13 Aug 2025 18:27	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081325

Review By	Mahesh Dadoda	Review On	8/18/2025 8:46:30 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 4:18:05 AM				
SubDirectory	VY081325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135111
Initial Calibration Stds	
CCC	VP135112,VP135113
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2819-17	VY023079.D	13 Aug 2025 18:51	SY/MD	Ok
23	Q2819-18	VY023080.D	13 Aug 2025 19:14	SY/MD	Ok
24	Q2819-19	VY023081.D	13 Aug 2025 19:38	SY/MD	Ok
25	VSTDCCC050	VY023082.D	13 Aug 2025 20:00	SY/MD	Ok,M

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

Review By	Mahesh Dadoda	Review On	8/19/2025 4:23:08 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 6:52:38 AM				
SubDirectory	VY081425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135134
Initial Calibration Stds	
CCC	VP135135,VP135136
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	VY023083.D	14 Aug 2025 09:48	SY/MD	Ok
2	VSTDCCC050	VY023084.D	14 Aug 2025 10:17	SY/MD	Ok,M
3	VY0814SBL01	VY023085.D	14 Aug 2025 10:50	SY/MD	Ok
4	VY0814SBS01	VY023086.D	14 Aug 2025 11:22	SY/MD	Ok,M
5	VY0814SBSD01	VY023087.D	14 Aug 2025 11:45	SY/MD	Ok,M
6	Q2830-05	VY023088.D	14 Aug 2025 12:26	SY/MD	Ok
7	Q2819-10RE	VY023089.D	14 Aug 2025 12:50	SY/MD	Confirms
8	Q2819-11RE	VY023090.D	14 Aug 2025 13:13	SY/MD	Confirms
9	Q2819-15	VY023091.D	14 Aug 2025 13:37	SY/MD	Ok
10	Q2819-16	VY023092.D	14 Aug 2025 14:00	SY/MD	Ok
11	Q2819-20	VY023093.D	14 Aug 2025 14:24	SY/MD	ReRun
12	Q2838-03	VY023094.D	14 Aug 2025 14:47	SY/MD	Ok
13	Q2838-07	VY023095.D	14 Aug 2025 15:11	SY/MD	Ok
14	Q2840-01	VY023096.D	14 Aug 2025 15:34	SY/MD	Ok
15	Q2858-01	VY023097.D	14 Aug 2025 15:57	SY/MD	Ok
16	Q2857-03	VY023098.D	14 Aug 2025 16:21	SY/MD	Ok
17	Q2826-01	VY023099.D	14 Aug 2025 16:44	SY/MD	Ok
18	Q2873-01	VY023100.D	14 Aug 2025 17:08	SY/MD	Ok
19	Q2873-04	VY023101.D	14 Aug 2025 17:31	SY/MD	Ok
20	Q2871-01	VY023102.D	14 Aug 2025 17:55	SY/MD	Ok
21	Q2871-04	VY023103.D	14 Aug 2025 18:18	SY/MD	ReRun

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

Review By	Mahesh Dadoda	Review On	8/19/2025 4:23:08 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 6:52:38 AM				
SubDirectory	VY081425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135134
Initial Calibration Stds	
CCC	VP135135,VP135136
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2871-07	VY023104.D	14 Aug 2025 18:42	SY/MD	Ok
23	Q2872-01	VY023105.D	14 Aug 2025 19:05	SY/MD	ReRun
24	Q2870-01	VY023106.D	14 Aug 2025 19:29	SY/MD	Ok
25	Q2870-04	VY023107.D	14 Aug 2025 19:52	SY/MD	Ok
26	VIBLK	VY023108.D	14 Aug 2025 20:15	SY/MD	Ok
27	VSTDCCC050	VY023109.D	14 Aug 2025 20:38	SY/MD	Ok,M

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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

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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

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	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

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081325

Review By	Mahesh Dadoda	Review On	8/18/2025 8:46:30 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 4:18:05 AM		
SubDirectory	VY081325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135111
Initial Calibration Stds	
CCC	VP135112,VP135113
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	VY023058.D	13 Aug 2025 08:21		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023059.D	13 Aug 2025 09:37		SY/MD	Ok,M
3	VY0813SBL01	VY0813SBL01	VY023060.D	13 Aug 2025 10:39		SY/MD	Ok
4	VY0813SBS01	VY0813SBS01	VY023061.D	13 Aug 2025 11:09		SY/MD	Ok,M
5	VY0813SBSD01	VY0813SBSD01	VY023062.D	13 Aug 2025 11:32		SY/MD	Ok,M
6	Q2831-02	VNJ-238-VOC	VY023063.D	13 Aug 2025 12:34	vial-A	SY/MD	Ok
7	Q2830-01	BIN0009-DRIVEWAY-T	VY023064.D	13 Aug 2025 12:58	vial-A	SY/MD	Ok
8	Q2830-03	BIN0009-DRIVEWAY-T	VY023065.D	13 Aug 2025 13:21	vial-A	SY/MD	Ok
9	Q2830-05	BIN0009-DRIVEWAY-T	VY023066.D	13 Aug 2025 13:45	vial-A Internal Standard fail	SY/MD	ReRun
10	Q2830-07	BIN0009-DRIVEWAY-T	VY023067.D	13 Aug 2025 14:08	vial-A	SY/MD	Ok
11	Q2827-03	TP-8-VOC	VY023068.D	13 Aug 2025 14:32	vial-A	SY/MD	Ok
12	Q2819-07	11M-N	VY023069.D	13 Aug 2025 14:55	vial-A	SY/MD	Ok,M
13	Q2819-08	11M-E	VY023070.D	13 Aug 2025 15:19	vial-A	SY/MD	Ok
14	Q2819-09	84SB-E	VY023071.D	13 Aug 2025 15:43	vial-A	SY/MD	Ok
15	Q2819-10	84SB-S	VY023072.D	13 Aug 2025 16:06	vial-A Surrogate Fail	SY/MD	ReRun
16	Q2819-11	84SB-W	VY023073.D	13 Aug 2025 16:30	vial-A Internal Standard fail;Surrogate Fail	SY/MD	ReRun
17	Q2819-12	17M-S	VY023074.D	13 Aug 2025 16:53	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081325

Review By	Mahesh Dadoda	Review On	8/18/2025 8:46:30 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 4:18:05 AM		
SubDirectory	VY081325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135111
Initial Calibration Stds	
CCC	VP135112,VP135113
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2819-13	17M-E	VY023075.D	13 Aug 2025 17:17	vial-A	SY/MD	Ok
19	Q2819-14	17M-W	VY023076.D	13 Aug 2025 17:40	vial-A	SY/MD	Ok
20	Q2819-15	17M-N	VY023077.D	13 Aug 2025 18:04	vial-A Internal Standard fail	SY/MD	ReRun
21	Q2819-16	38M-S	VY023078.D	13 Aug 2025 18:27	vial-A Surrogate Fail	SY/MD	ReRun
22	Q2819-17	38M-N	VY023079.D	13 Aug 2025 18:51	vial-A	SY/MD	Ok
23	Q2819-18	38M-W	VY023080.D	13 Aug 2025 19:14	vial-A	SY/MD	Ok
24	Q2819-19	38M-E	VY023081.D	13 Aug 2025 19:38	vial-A	SY/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VY023082.D	13 Aug 2025 20:00		SY/MD	Ok,M

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

Review By	Mahesh Dadoda	Review On	8/19/2025 4:23:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 6:52:38 AM		
SubDirectory	VY081425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135134
Initial Calibration Stds	
CCC	VP135135,VP135136
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	VY023083.D	14 Aug 2025 09:48		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023084.D	14 Aug 2025 10:17		SY/MD	Ok,M
3	VY0814SBL01	VY0814SBL01	VY023085.D	14 Aug 2025 10:50		SY/MD	Ok
4	VY0814SBS01	VY0814SBS01	VY023086.D	14 Aug 2025 11:22		SY/MD	Ok,M
5	VY0814SBSD01	VY0814SBSD01	VY023087.D	14 Aug 2025 11:45		SY/MD	Ok,M
6	Q2830-05	BIN0009-DRIVEWAY-T	VY023088.D	14 Aug 2025 12:26	vial-B	SY/MD	Ok
7	Q2819-10RE	84SB-SRE	VY023089.D	14 Aug 2025 12:50	vial-B Surrogate Fail	SY/MD	Confirms
8	Q2819-11RE	84SB-WRE	VY023090.D	14 Aug 2025 13:13	vial-B Internal Standard fail;Surrogate Fail	SY/MD	Confirms
9	Q2819-15	17M-N	VY023091.D	14 Aug 2025 13:37	vial-B	SY/MD	Ok
10	Q2819-16	38M-S	VY023092.D	14 Aug 2025 14:00	vial-B	SY/MD	Ok
11	Q2819-20	82H-E	VY023093.D	14 Aug 2025 14:24	vial-A Internal Standard fail;Surrogate Fail	SY/MD	ReRun
12	Q2838-03	TP-11-VOC	VY023094.D	14 Aug 2025 14:47	vial-A	SY/MD	Ok
13	Q2838-07	TP-10-VOC	VY023095.D	14 Aug 2025 15:11	vial-A	SY/MD	Ok
14	Q2840-01	0804-SOIL	VY023096.D	14 Aug 2025 15:34	vial-A	SY/MD	Ok
15	Q2858-01	VNJ 216	VY023097.D	14 Aug 2025 15:57	vial-A	SY/MD	Ok
16	Q2857-03	72-12002	VY023098.D	14 Aug 2025 16:21	vial-A	SY/MD	Ok
17	Q2826-01	WC1	VY023099.D	14 Aug 2025 16:44	vial-A	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

Review By	Mahesh Dadoda	Review On	8/19/2025 4:23:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	8/19/2025 6:52:38 AM		
SubDirectory	VY081425	HP Acquire Method	MSVOA_Y	HP Processing Method	82y081225s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135134
Initial Calibration Stds	
CCC	VP135135,VP135136
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2873-01	DRILL CUTTING 1-3 C	VY023100.D	14 Aug 2025 17:08	vial-A	SY/MD	Ok
19	Q2873-04	DRILL CUTTING 4-6 C	VY023101.D	14 Aug 2025 17:31	vial-A	SY/MD	Ok
20	Q2871-01	DRILL CUTTING 1-3 C	VY023102.D	14 Aug 2025 17:55	vial-A	SY/MD	Ok
21	Q2871-04	DRILL CUTTING 4-6 C	VY023103.D	14 Aug 2025 18:18	vial-A Internal Standard Fail	SY/MD	ReRun
22	Q2871-07	DRILL CUTTING 1-5 C	VY023104.D	14 Aug 2025 18:42	vial-A	SY/MD	Ok
23	Q2872-01	DRILL CUTTING 1-2 C	VY023105.D	14 Aug 2025 19:05	vial-A Internal Standard Fail	SY/MD	ReRun
24	Q2870-01	DRILL CUTTING 1-5 C	VY023106.D	14 Aug 2025 19:29	vial-A Internal Standard Fail	SY/MD	Ok
25	Q2870-04	DRILL CUTTING 6-9 C	VY023107.D	14 Aug 2025 19:52	vial-A	SY/MD	Ok
26	VIBLK	VIBLK	VY023108.D	14 Aug 2025 20:15		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VY023109.D	14 Aug 2025 20:38		SY/MD	Ok,M

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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	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

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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	

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	10.66	11.85	11.15	93.4	
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)

JB 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: [signature]

Date/Time 08112125 1735

Raw Sample Received by: [signature]

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: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 08/12/25 17:35

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

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:
Raw Sample Relinquished by:

Date/Time 08112125 17:35
Raw Sample Received by:
Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WS 131783

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: WC/

Raw Sample Relinquished by:

Date/Time 08/12/25 1735

Raw Sample Received by:

Raw Sample Relinquished by: WC/

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

Prep Standard - Chemical Standard Summary

Order ID : Q2819

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: vw081125,VY081325,VY081425,vy081925,

Standard ID :
VP133934,VP134145,VP134147,VP134149,VP134150,VP134151,VP134263,VP134264,VP134568,VP134569,VP134742,VP134810,VP134811,VP134812,VP134814,VP134815,VP134934,VP134935,VP134957,VP135059,VP135060,VP135061,VP135074,VP135075,VP135076,VP135077,VP135078,VP135079,VP135080,VP135081,VP135082,VP135111,VP135112,VP135113,VP135129,VP135130,VP135134,VP135135,VP135136,VP135166,VP135167,VP135168,

Chemical ID :
V12968,V13391,V13450,V13583,V13584,V13826,V14128,V14181,V14199,V14290,V14444,V14446,V14507,V14508,V14529,V14530,V14625,V14629,V14636,V14637,V14638,V14639,V14673,V14675,V14702,V14705,V14716,V14745,V14751,V14795,V14806,V14807,V14843,V14906,V14921,V14929,V14977,V15050,V15051,V15052,V15055,V15056,V15057,V15058,V15059,W3112,

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

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
253	8260 Working STD (BCM)-First source, 20PPM	VP134145	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.50000ml of V14675 + 49.50000ml of V14929 = Final Quantity: 50.000 ml

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

VOC STANDARD PREPARATION LOG

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

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

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

VOC STANDARD PREPARATION LOG

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.25000ml of V14639 + 24.75000ml of V14929 = Final Quantity: 25.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP134263	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2025

FROM 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1819	8260 Working Std(2-CVE)-SS, 500ppm	VP134264	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2025

FROM 1.87500ml of V14921 + 3.12500ml of VP134263 = Final Quantity: 5.000 ml

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP134568	06/30/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/15/2025

FROM 0.16000ml of V13450 + 0.80000ml of V13826 + 0.80000ml of V14128 + 0.80000ml of V14181 + 0.80000ml of V14795 + 0.80000ml of V14977 + 1.60000ml of V14199 + 4.24000ml of V14929 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
260	8260 Calibration Working STD Mix-Second source, 100PPM	VP134569	06/30/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/15/2025

FROM 1.87500ml of V14929 + 3.12500ml of VP134568 = 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
262	8260 Working STD (BCM)-Second source, 100PPM	VP134742	07/14/2025	01/07/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.00000ml of V12968 + 9.00000ml of V14629 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP134810	07/18/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.00000ml of V15052 + 1.50000ml of V15050 + 1.50000ml of V15051 + 21.00000ml of V14629 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
56	8260 Working STD (Acrolein) -first source, 500PPM	VP134811	07/18/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 5.62500ml of V14629 + 9.37500ml of VP134810 = Final Quantity: 15.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP134812	07/18/2025	08/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 17.50000ml of V14629 + 2.50000ml of VP134810 = 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
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP134814	07/18/2025	08/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 0.60000ml of V15056 + 1.00000ml of V15055 + 8.40000ml of V14629 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
264	8260 Working STD (Acrolein)-Second source, 500PPM	VP134815	07/18/2025	08/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.87500ml of V14629 + 3.12500ml of VP134814 = 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
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
1738	8260 surrogate 20 ppm	VP134935	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.02000ml of V14906 + 24.99000ml of V14625 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135059	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP135061	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 17.50000ml of V14625 + 2.50000ml of VP135059 = 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
732	BFB TUNE CHECK - SOIL	VP135074	08/11/2025	08/12/2025	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
267	5 PPB ICC, 8260-SOIL	VP135075	08/11/2025	08/12/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.98800ml of W3112 + 0.00130ml of VP134145 + 0.00130ml of VP134151 + 0.00130ml of VP134812 + 0.00130ml of VP134935 + 0.00130ml of VP135061 + 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
269	10 PPB ICC, 8260-SOIL	VP135076	08/11/2025	08/12/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134145 + 0.00250ml of VP134151 + 0.00250ml of VP134812 + 0.00250ml of VP134935 + 0.00250ml of VP135061 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
270	20 PPB ICC, 8260-SOIL	VP135077	08/11/2025	08/12/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.96500ml of W3112 + 0.00500ml of VP133934 + 0.00500ml of VP134145 + 0.00500ml of VP134151 + 0.00500ml of VP134812 + 0.00500ml of VP134935 + 0.00500ml of VP135061 = 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
273	50 PPB ICC, 8260-SOIL	VP135078	08/11/2025	08/12/2025	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 VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
280	100 PPB ICC, 8260-SOIL	VP135079	08/11/2025	08/12/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.96500ml of W3112 + 0.00500ml of VP133934 + 0.00500ml of VP134147 + 0.00500ml of VP134150 + 0.00500ml of VP134811 + 0.00500ml of VP134934 + 0.00500ml of VP135060 = 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
1653	150 PPB ICC,8260-SOIL	VP135080	08/11/2025	08/12/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.95000ml of W3112 + 0.00500ml of VP133934 + 0.00750ml of VP134147 + 0.00750ml of VP134150 + 0.00750ml of VP134811 + 0.00750ml of VP134934 + 0.00750ml of VP135060 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
287	50 PPB ICV, 8260-SOIL	VP135081	08/11/2025	08/12/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP133934 + 0.00250ml of VP134264 + 0.00250ml of VP134569 + 0.00250ml of VP134742 + 0.00250ml of VP134815 + 0.00250ml of VP134934 = 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	VP135082	08/11/2025	08/12/2025	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 VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 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	VP135111	08/13/2025	08/14/2025	Amit Patel	None	None	Mahesh Dadoda 08/19/2025

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	VP135112	08/13/2025	08/14/2025	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 VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 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	VP135113	08/13/2025	08/14/2025	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 VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 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
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	VP135134	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	VP135135	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	VP135136	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	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

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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	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

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 #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/14/2026	07/14/2025 / SAM	07/06/2022 / SAM	V12968

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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13584

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	A0197644	12/23/2025	06/23/2025 / SAM	05/31/2023 / SAM	V13826

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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)	011624	12/23/2025	06/23/2025 / SAM	01/17/2024 / SAM	V14128

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)	021524	12/23/2025	06/23/2025 / SAM	02/20/2024 / SAM	V14181

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	11/07/2025	05/07/2025 / SAM	02/28/2024 / SAM	V14199

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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 #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

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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	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

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	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

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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

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	A0220563	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14795

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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

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

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0220531	12/23/2025	06/23/2025 / SAM	05/19/2025 / SAM	V14977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15050

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15051

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071625	08/16/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15052

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071525	08/15/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	071525	08/15/2025	07/17/2025 / SAM	07/17/2025 / SAM	V15056

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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

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
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For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
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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

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

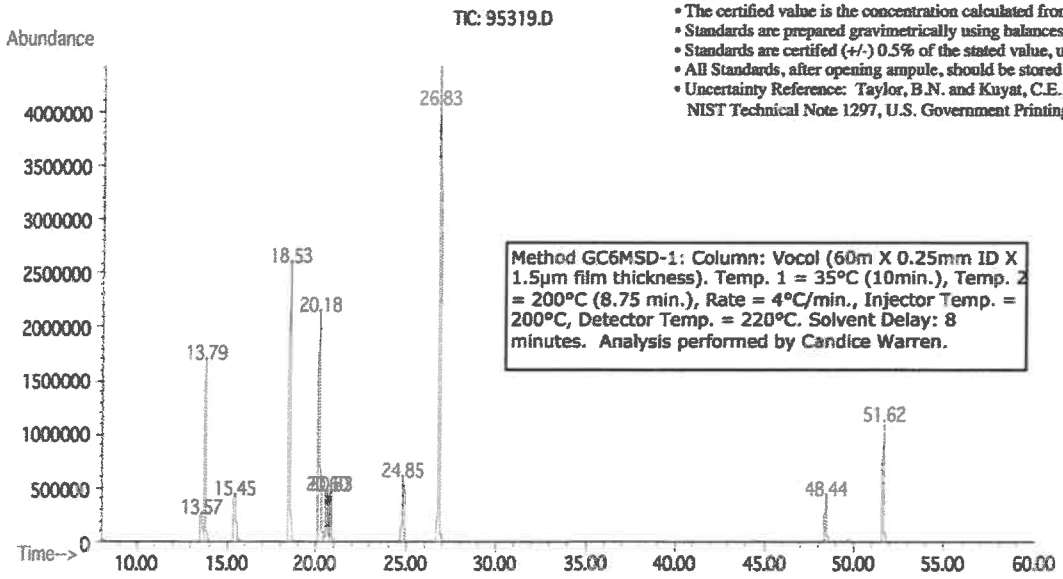
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 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.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/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 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.
- 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).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

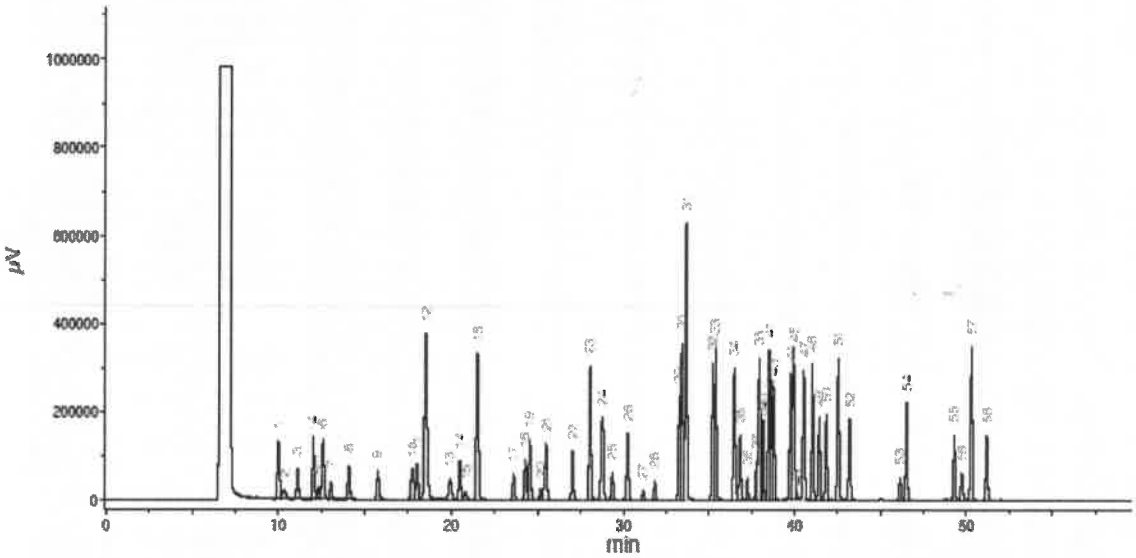
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	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	0.20222	2001.5	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	0.20020	2001.3	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	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	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	0.20118	2001.2	8.1	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	0.20209	2000.2	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	0.20042	2001.7	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	0.20030	2000.5	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	0.20230	2002.3	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	0.20570	2001.0	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	0.20415	2000.2	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	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2018.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/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	40005.6	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 1260mg/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	1999.6	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	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	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 References: 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 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 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-1,2,2-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	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
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	33.66
32	o-Xylene	33.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.22
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

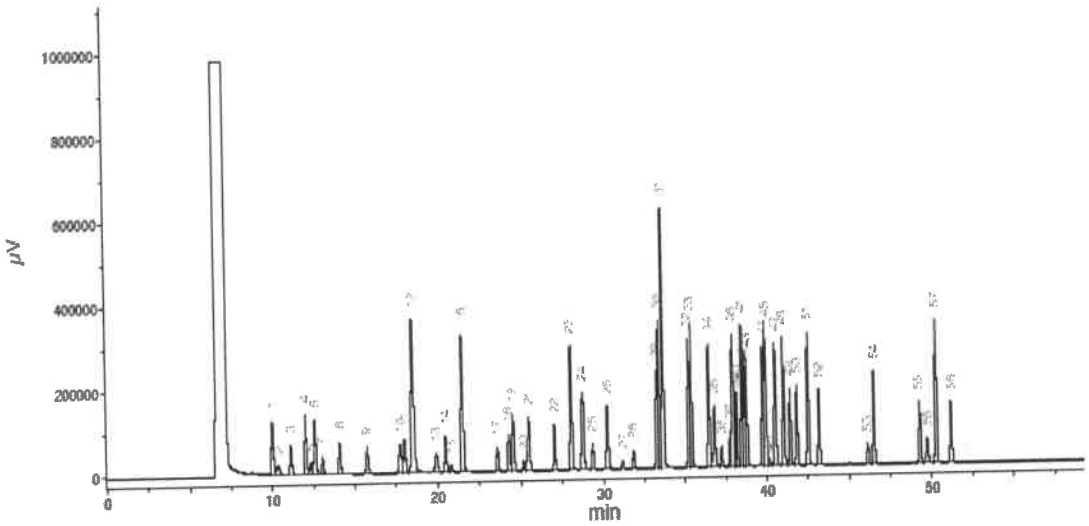
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	0.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	48.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: Vapours may form explosive mixture with air.
Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

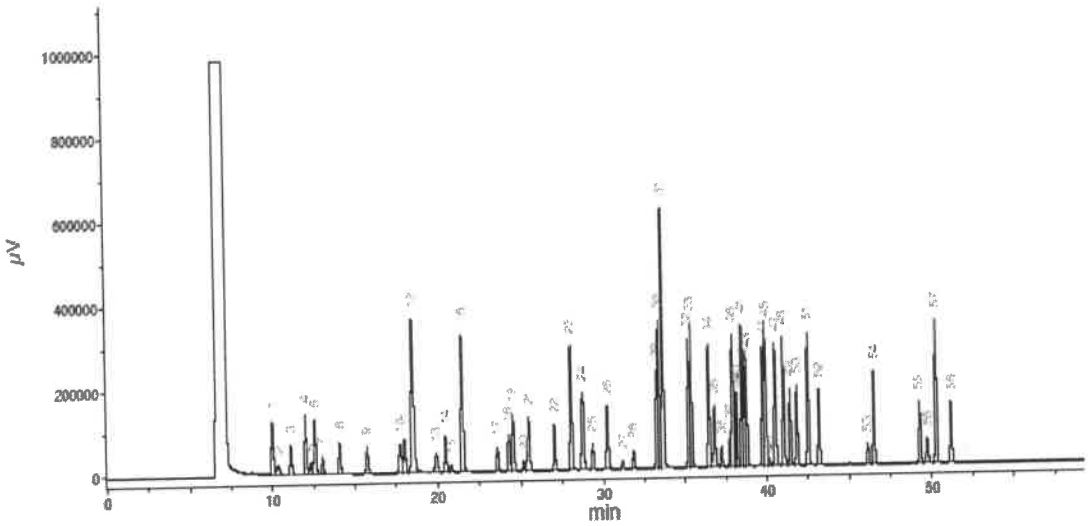
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 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/m3/9H)(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	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

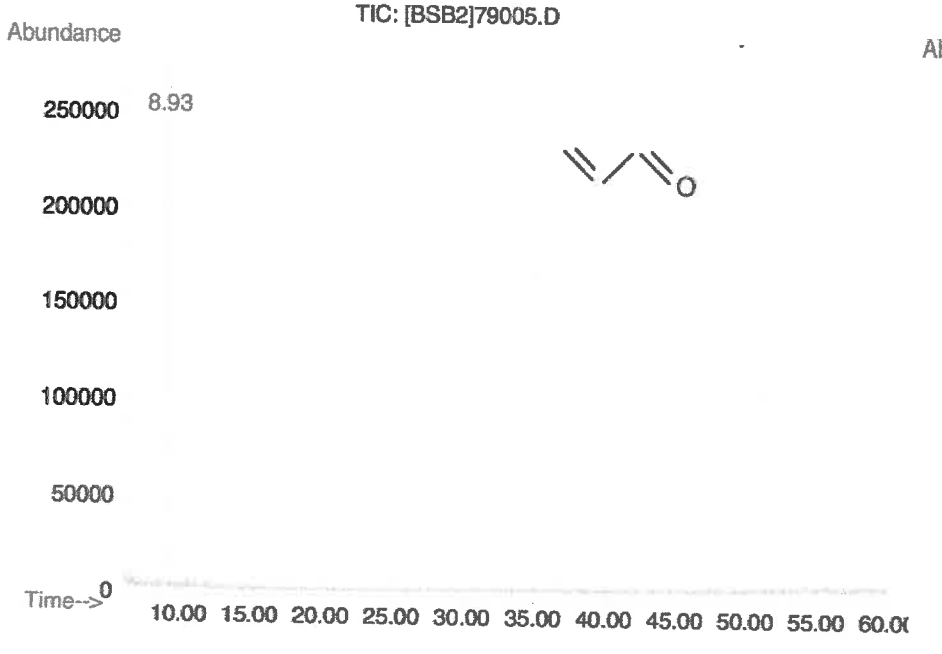
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

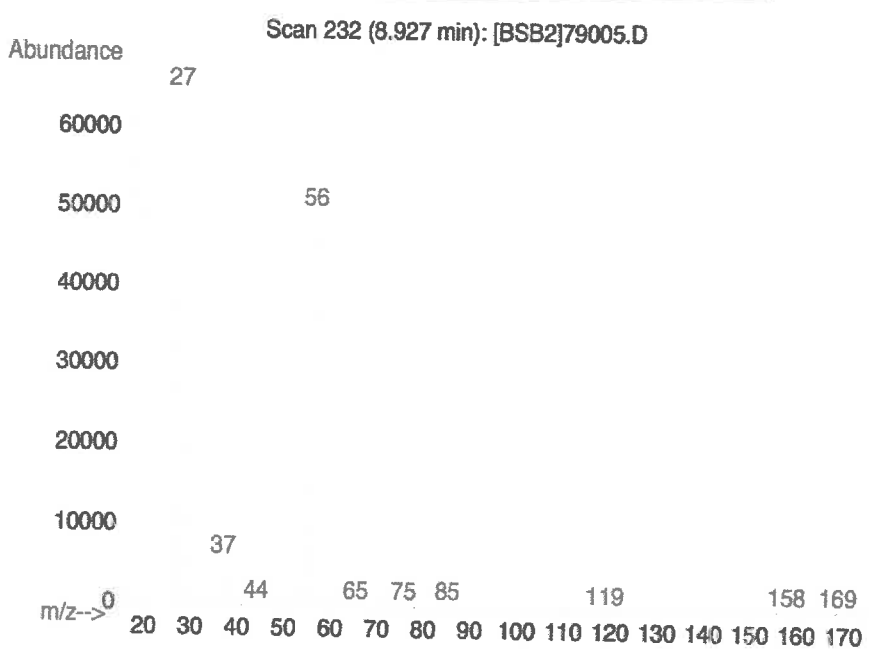
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- 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.
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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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

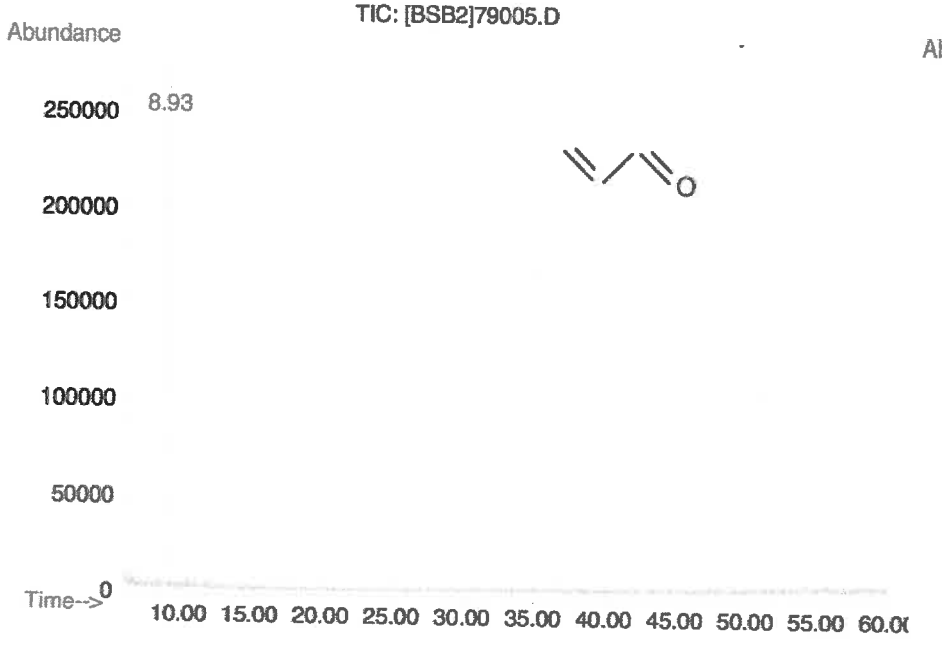
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

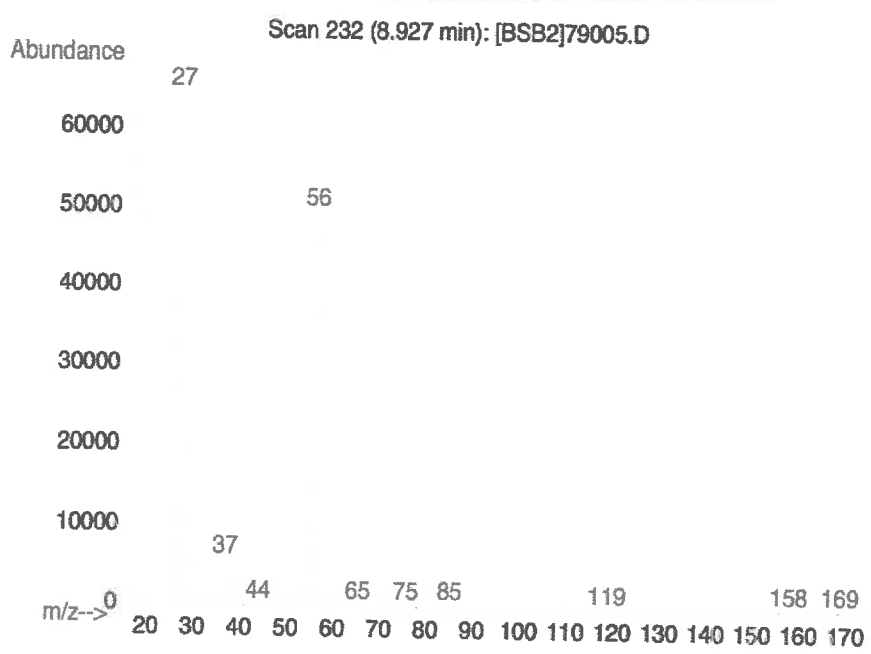
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- 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 WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

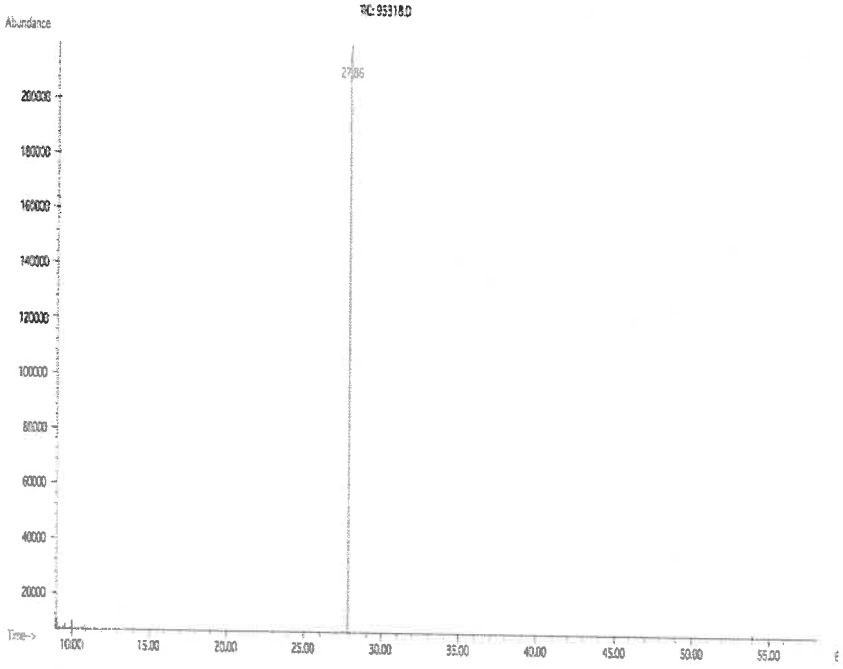
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

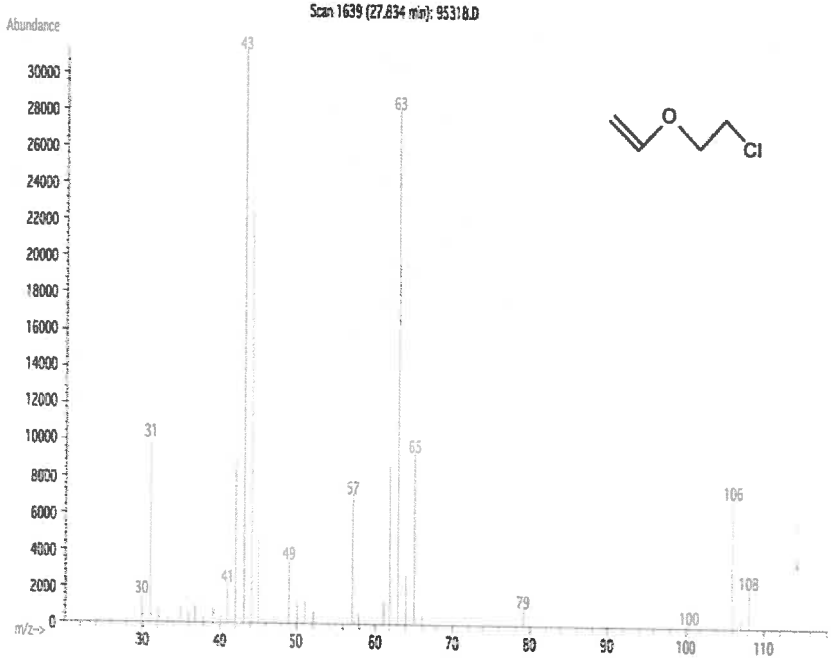
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 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	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-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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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

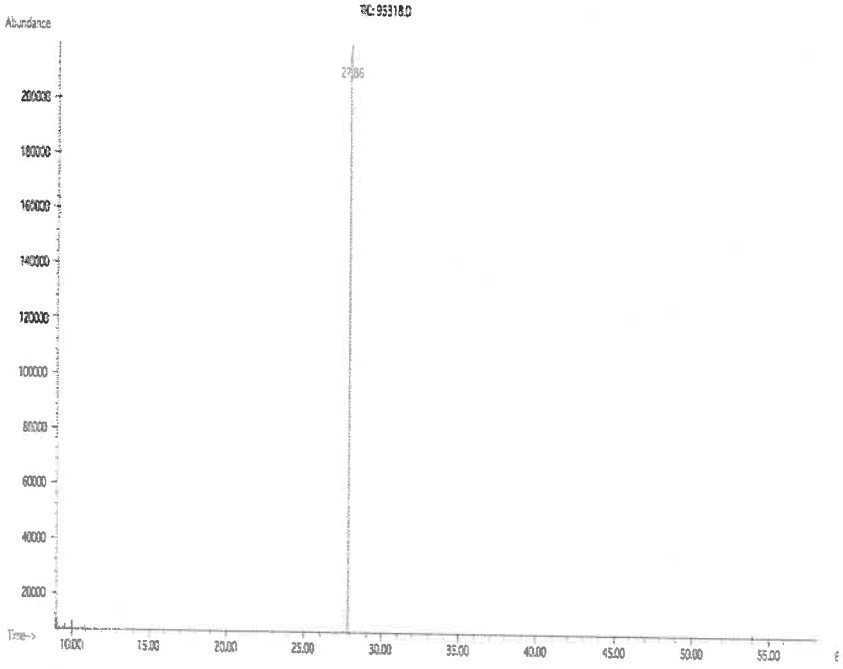
Weight(s) shown below were combined and diluted to (mL): 50.0

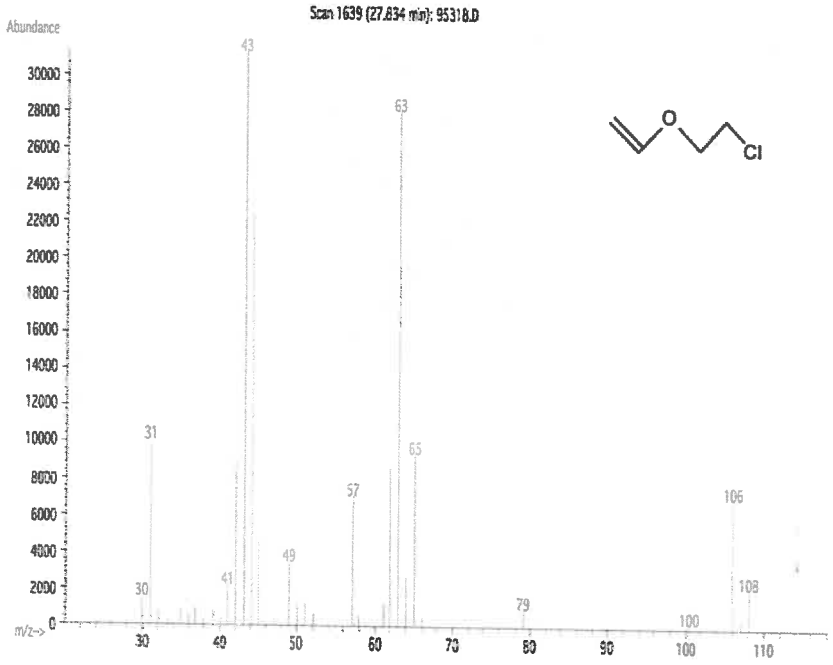
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 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	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-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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Rec 12/6/24
20 vial
V14630 to
V14649

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

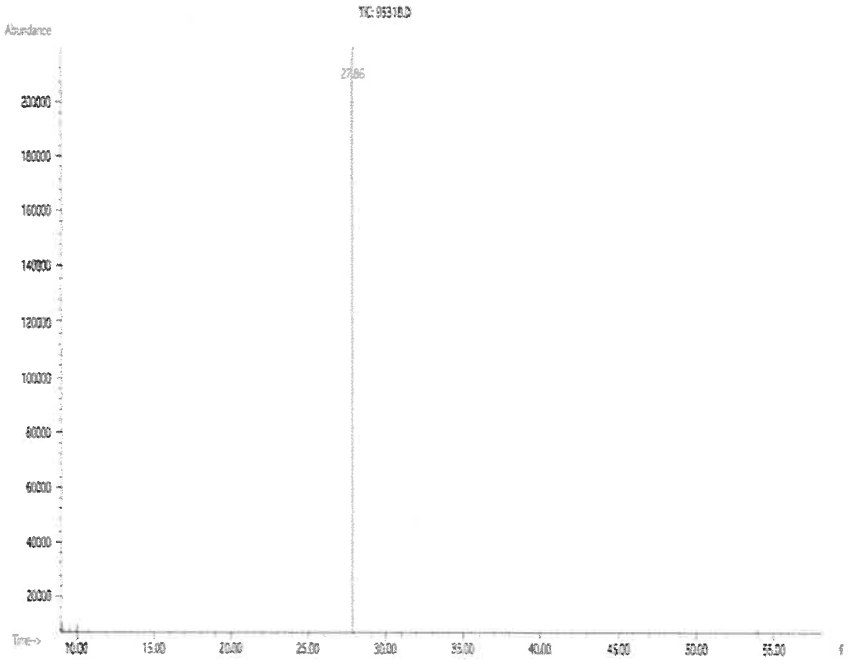
Solvent(s): Methanol **Lot#** EJ143-US

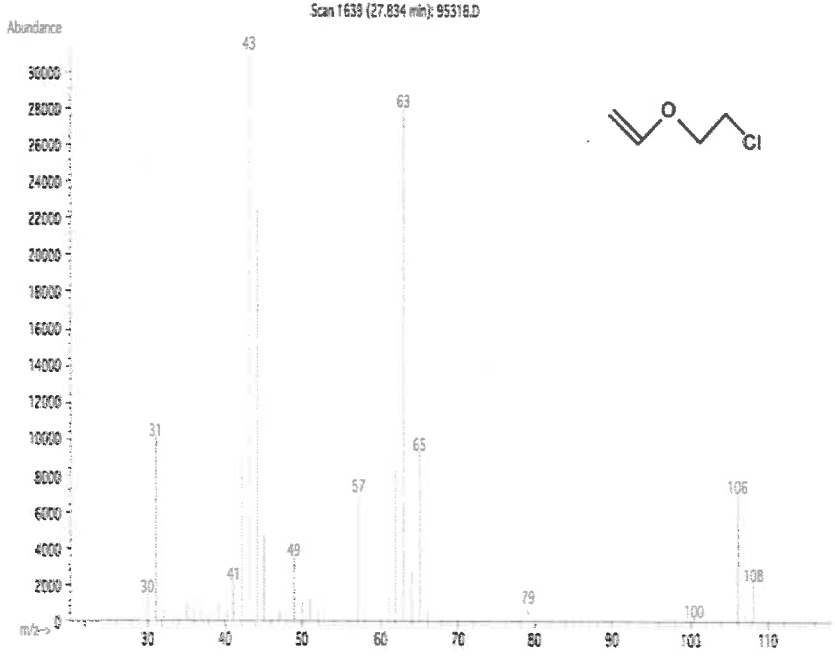
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

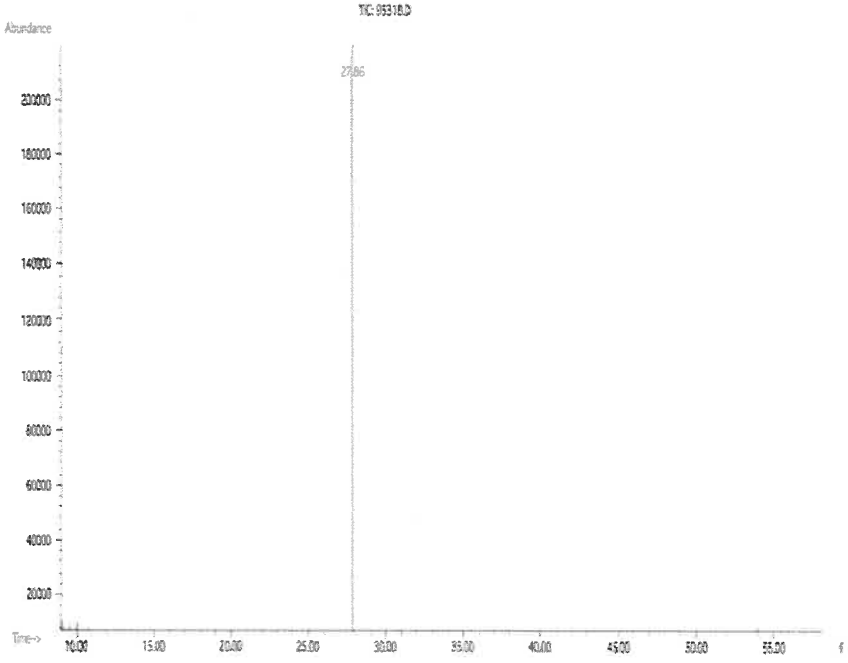
Solvent(s): Methanol **Lot#** EJ143-US

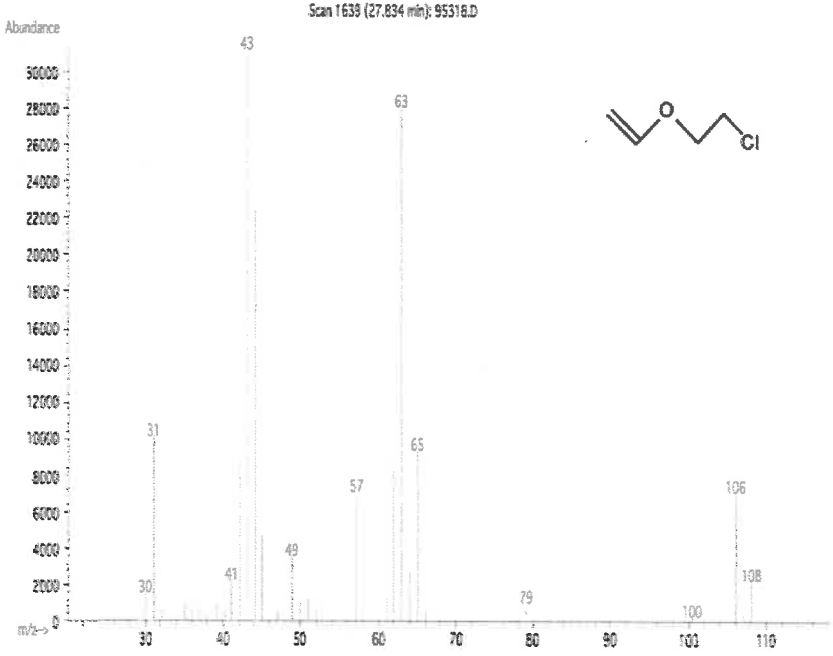
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Safety Data Sheet (SDS) GHS/OSHA Compliant

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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

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LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
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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.

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ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

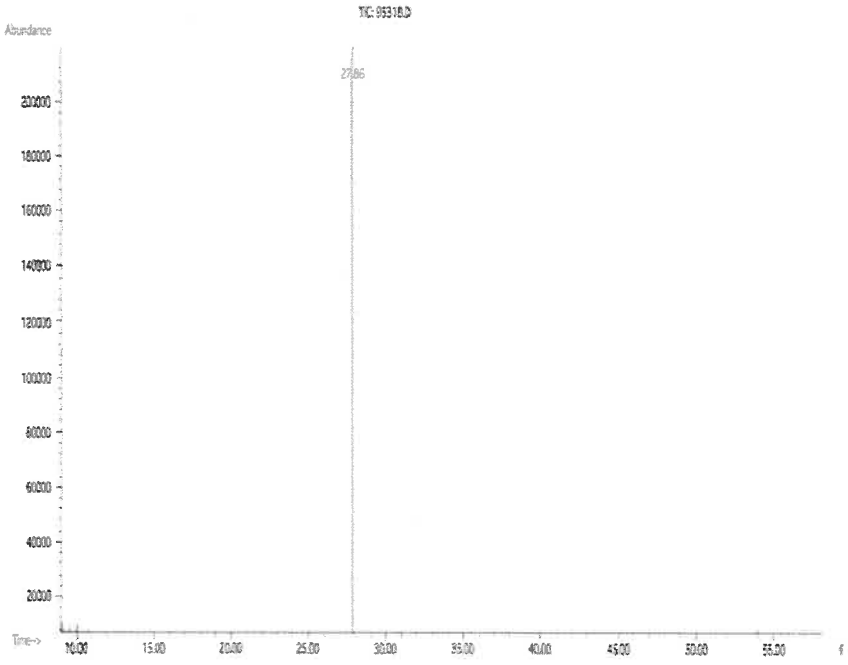
Solvent(s): Methanol **Lot#** EJ143-US

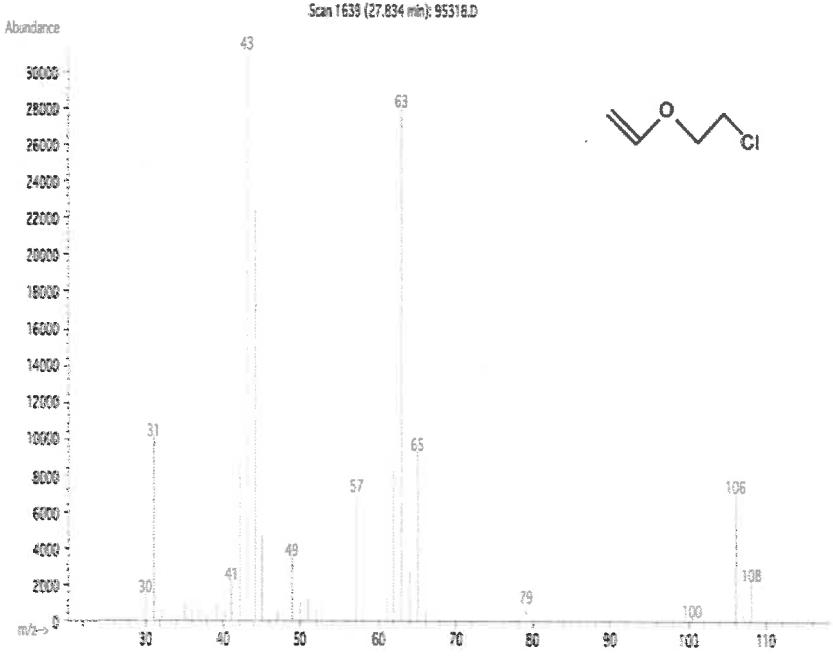
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- 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.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
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 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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Formulated By:	Prashant Chauhan	DATE
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Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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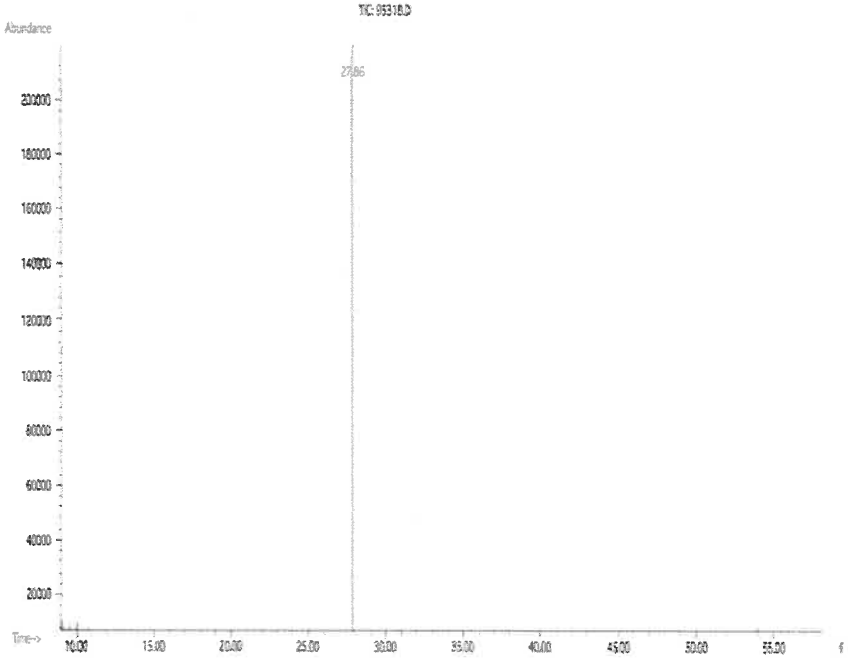

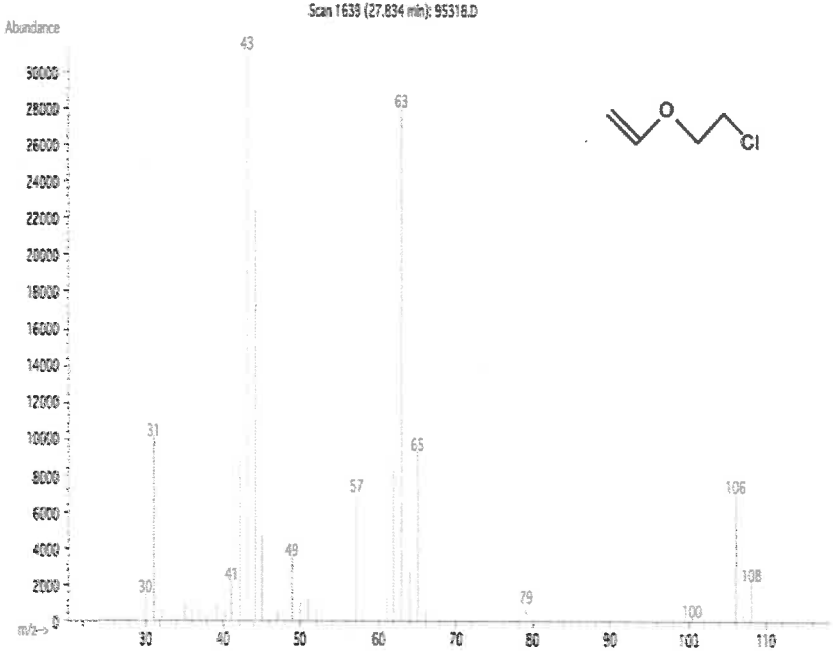

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UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

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UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

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4 J

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 30470 **Lot No.:** A0191703

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 : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

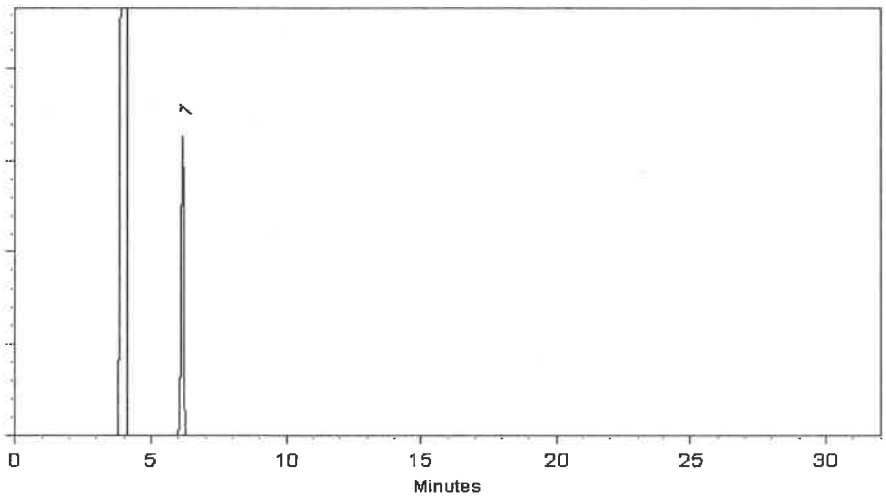
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

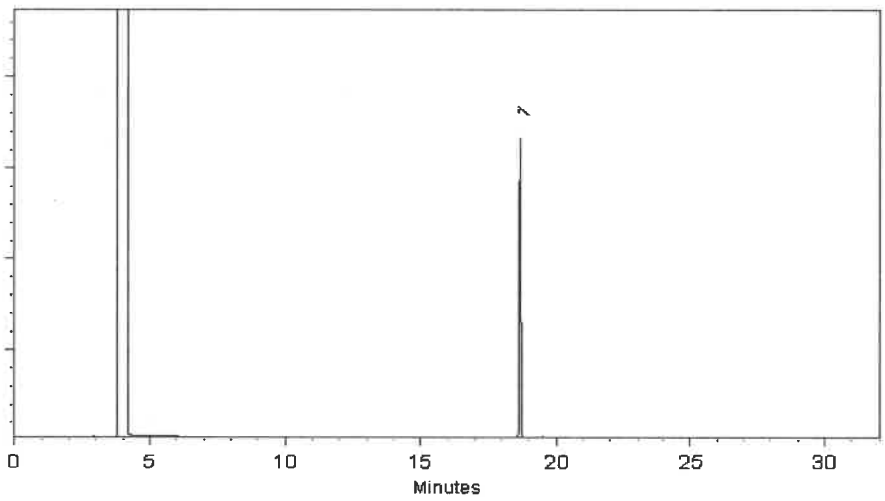
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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

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- 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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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.:** A0197644

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 : January 31, 2030 **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	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* 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.

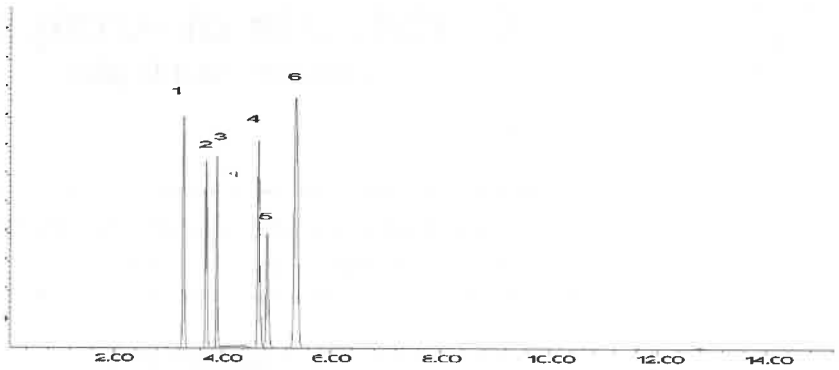
Inj. Temp:
200°C

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.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

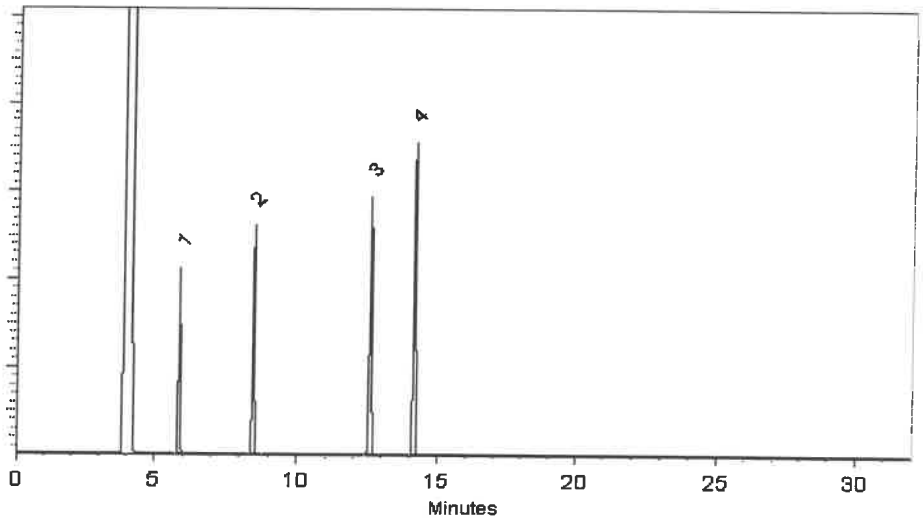
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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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.)

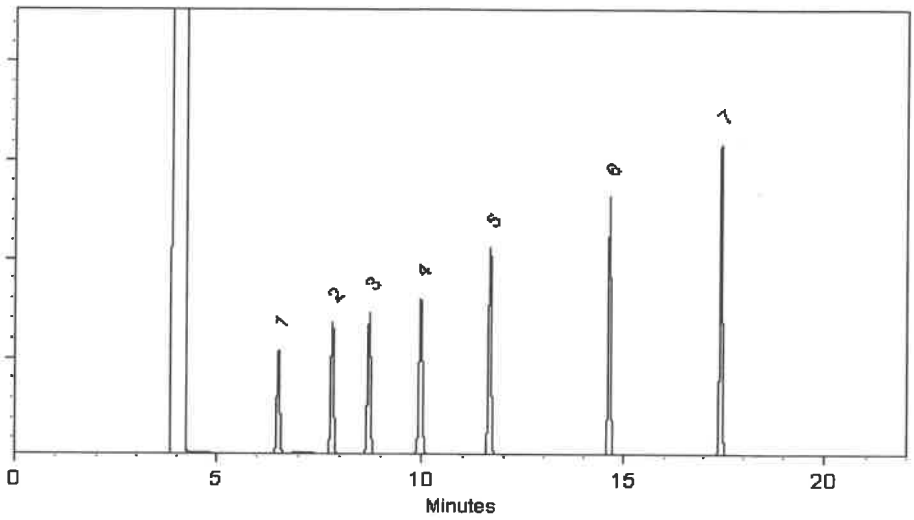
Inj. Temp:
200°C

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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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.)

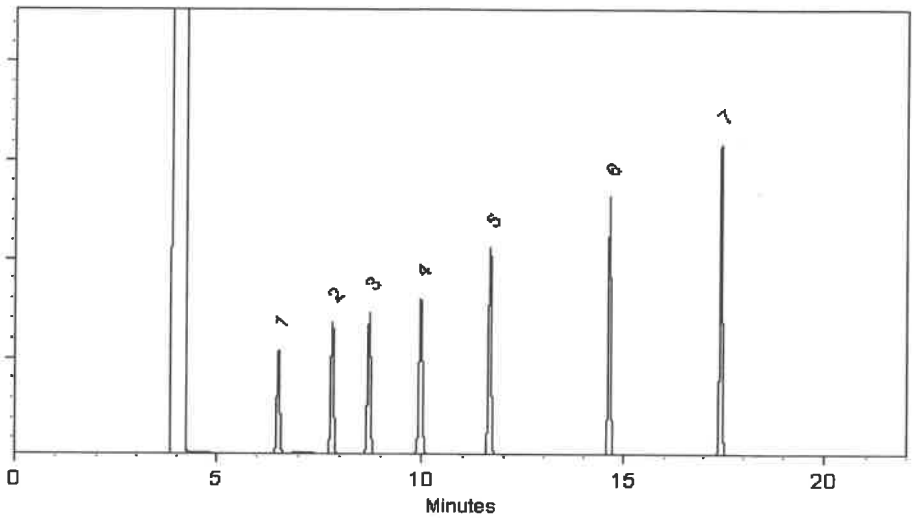
Inj. Temp:
200°C

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:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value Notes:

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- 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:

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Handling Notes:

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

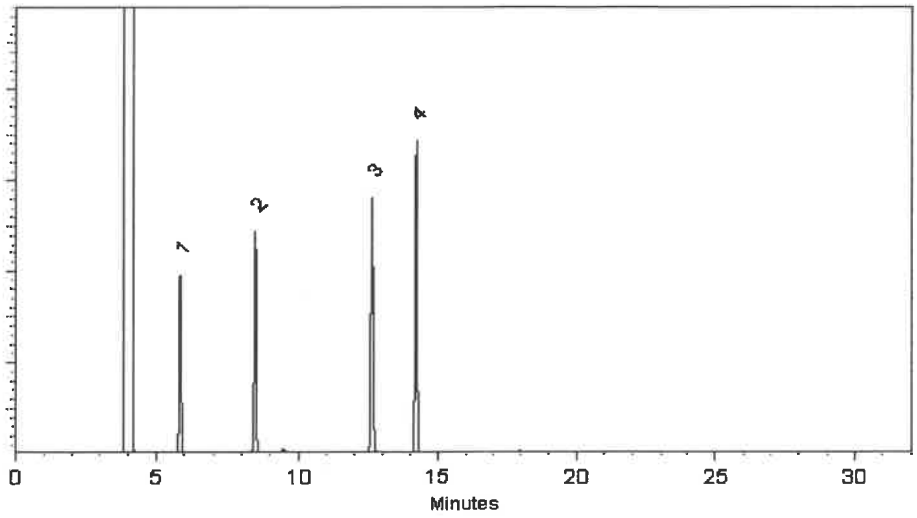
Inj. Temp:
200°C

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.
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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.)

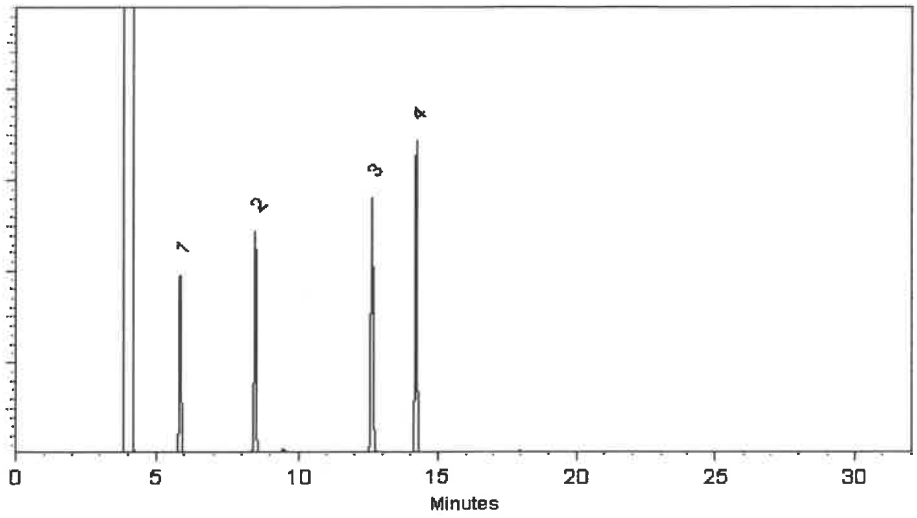
Inj. Temp:
200°C

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:

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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:

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Handling Notes:

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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.)

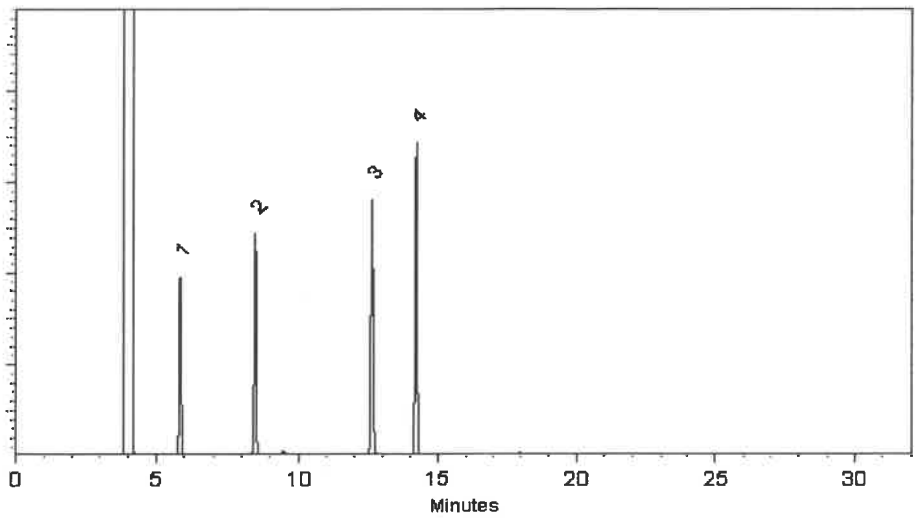
Inj. Temp:
200°C

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.
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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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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.)

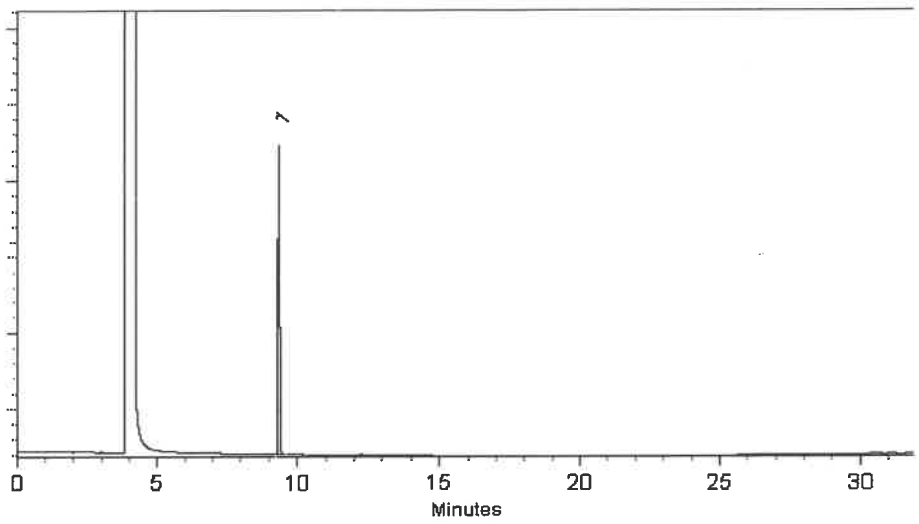
Inj. Temp:
200°C

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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Rec: 12/09/24

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

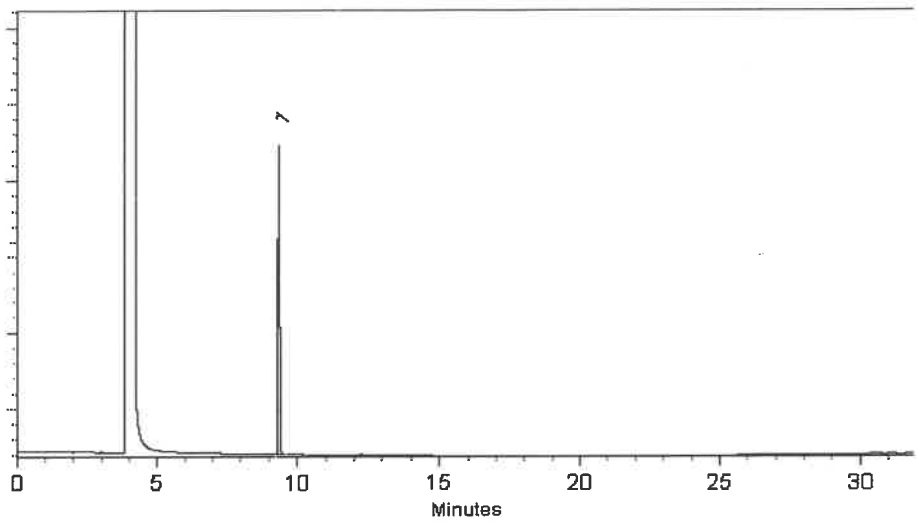
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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%.

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

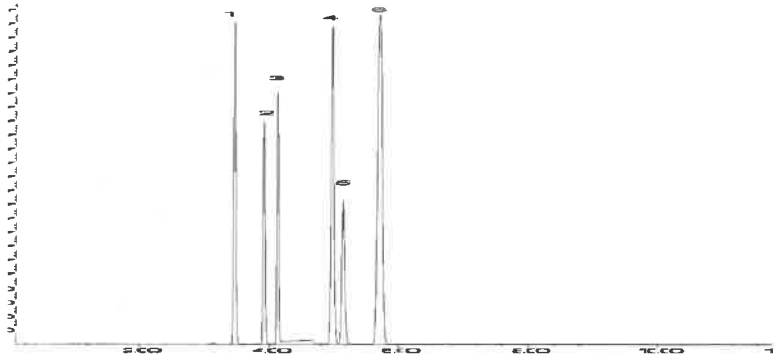
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

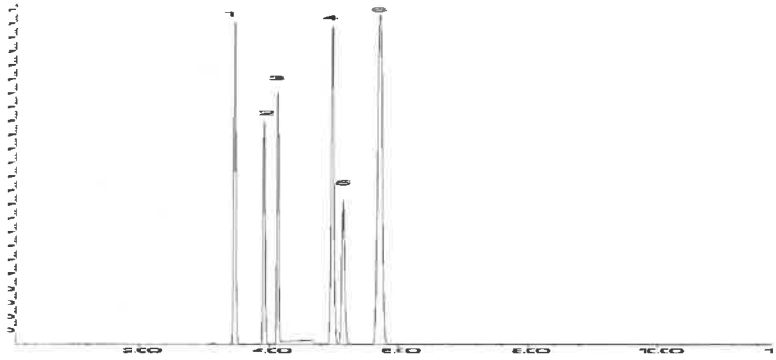
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

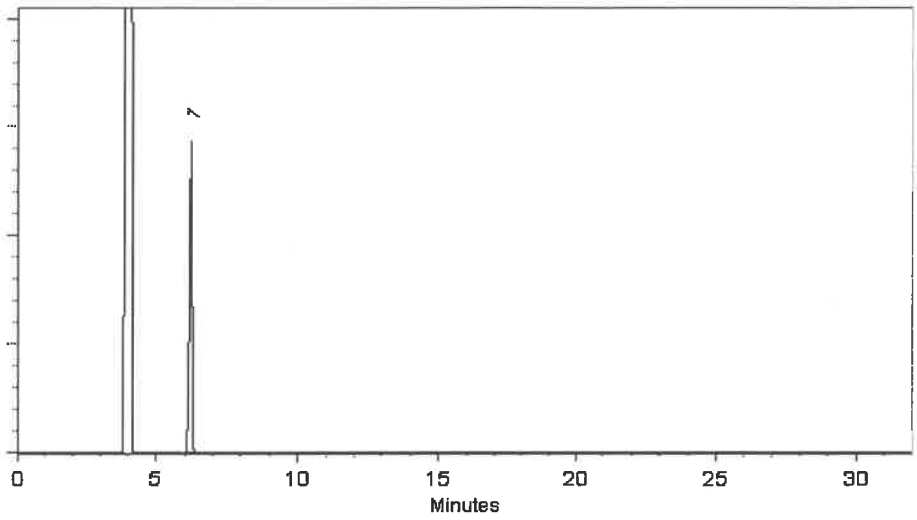
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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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Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

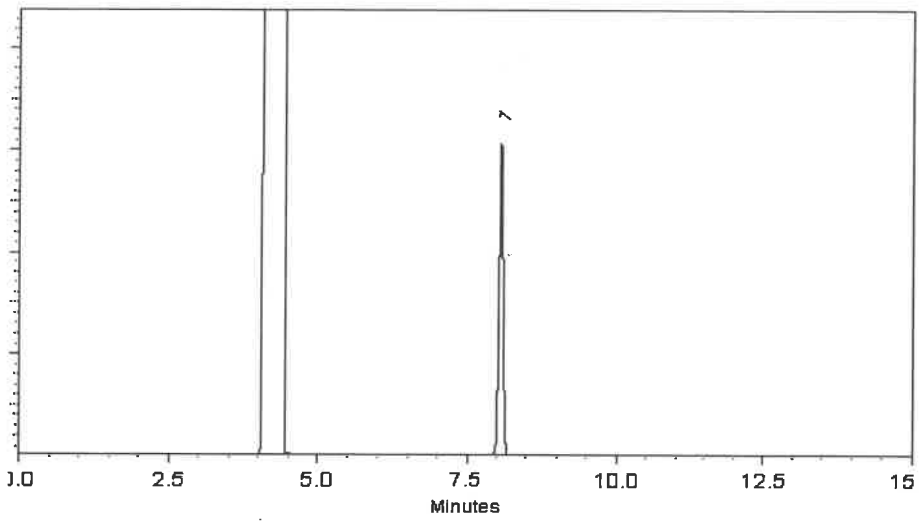
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

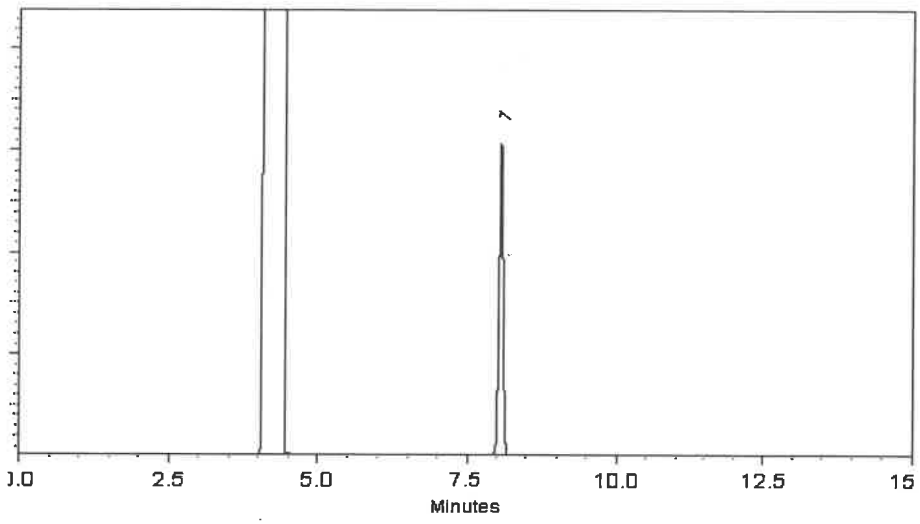
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

10 vial Rec 01/08/25

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14793 to 14802

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563

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%	8,060.0 µg/mL	+/- 278.5905

* 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.)

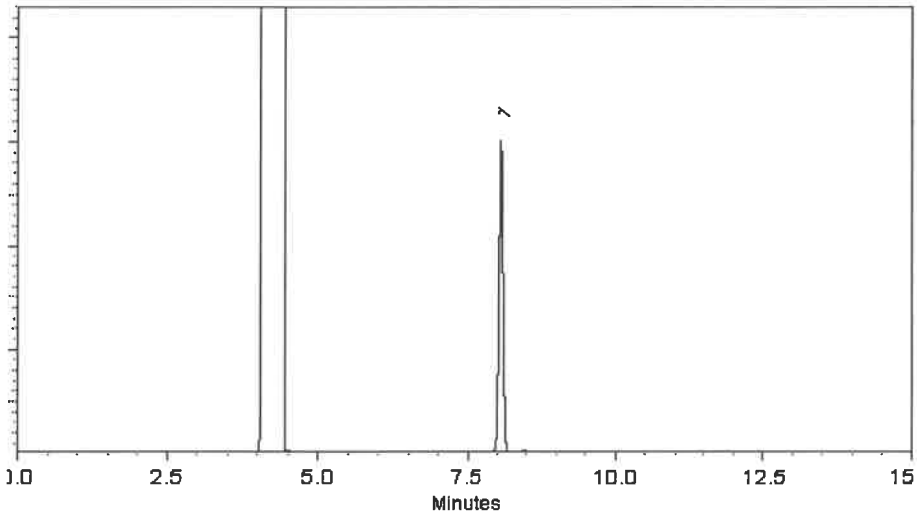
Inj. Temp:
200°C

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.

Tom Suckar - Mix Technician

Date Mixed: 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

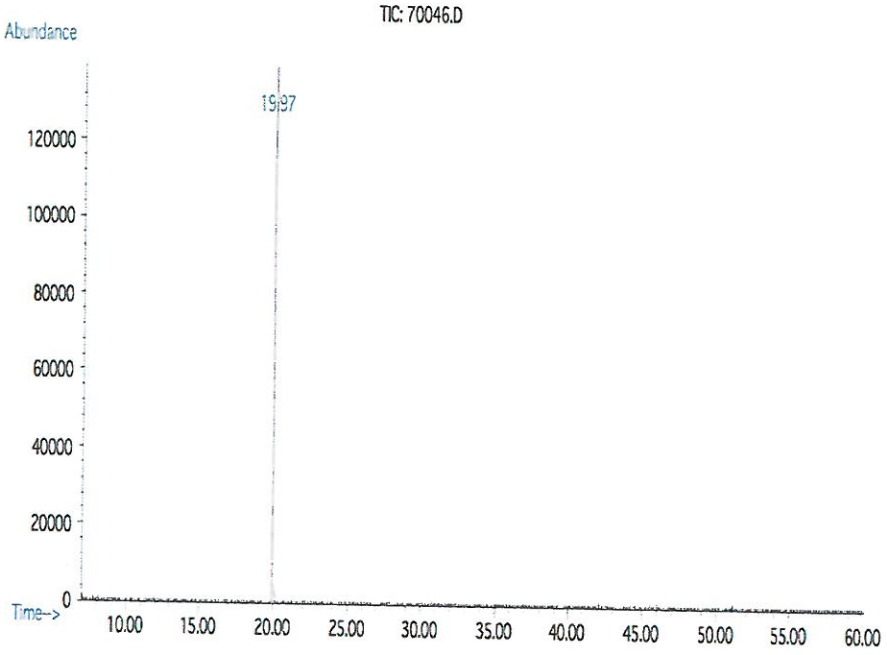
Weight(s) shown below were combined and diluted to (mL): 25.0

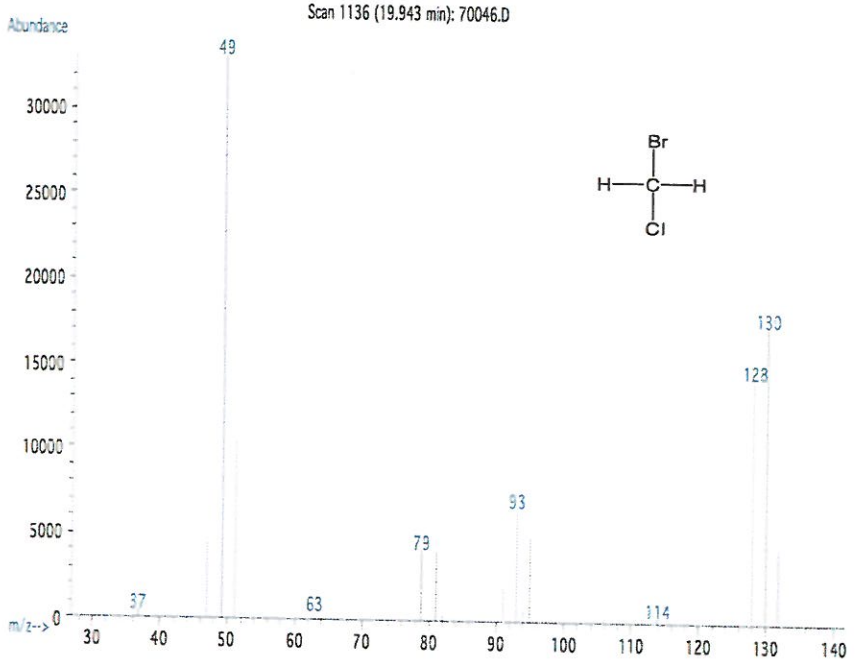
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Gabriel Helland		070122
Formulated By:	Gabriel Helland	DATE
Pedro Rentas		070122
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. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- 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.
- 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).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

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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

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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

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Dec 05/19/25

CERTIFIED REFERENCE MATERIAL

10 vial

Certificate of Analysis

chromatographic plus

V14971 to V14980

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0220531

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 : 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	Methyl acetate	79-20-9	SHBR1889	99%	2,018.7 µg/mL	+/- 69.7744
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,014.7 µg/mL	+/- 69.6361
3	Ethyl acetate	141-78-6	SHBR4534	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,010.7 µg/mL	+/- 69.4979
5	Propyl acetate	109-60-4	P8XLN	99%	2,017.3 µg/mL	+/- 69.7283
6	Butyl acetate	123-86-4	SHBR2024	99%	2,010.7 µg/mL	+/- 69.4979
7	Amyl acetate	628-63-7	BCBT7442	99%	2,017.3 µg/mL	+/- 69.7283

* 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

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Certified Reference Material CRM

Rec 07/17/25 5 vial

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AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

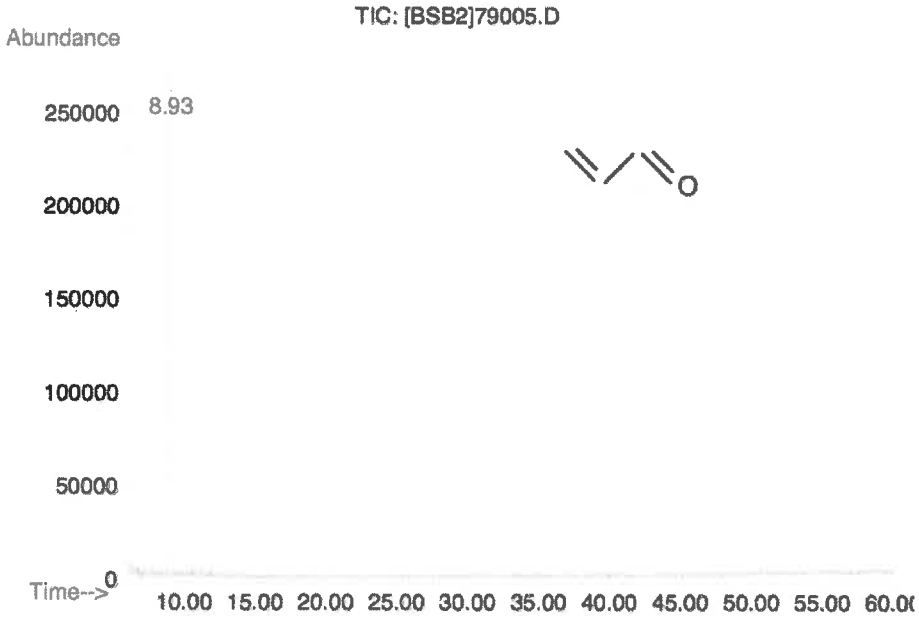
V15050 to
V15054 ~~V15056~~

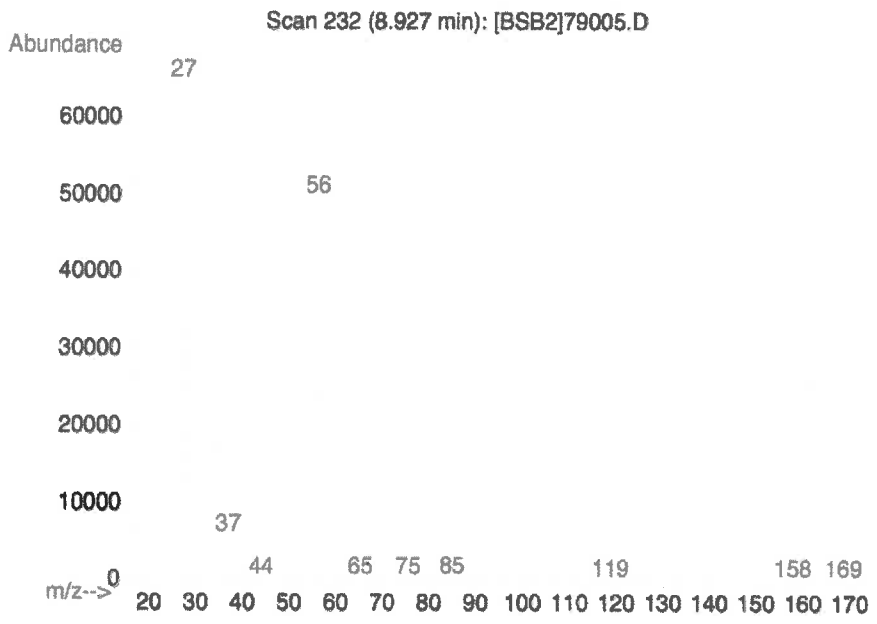
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	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).

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Certified Reference Material CRM

Rec 07/17/25 5 vial

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

V15050 to
V15054 ~~V15056~~

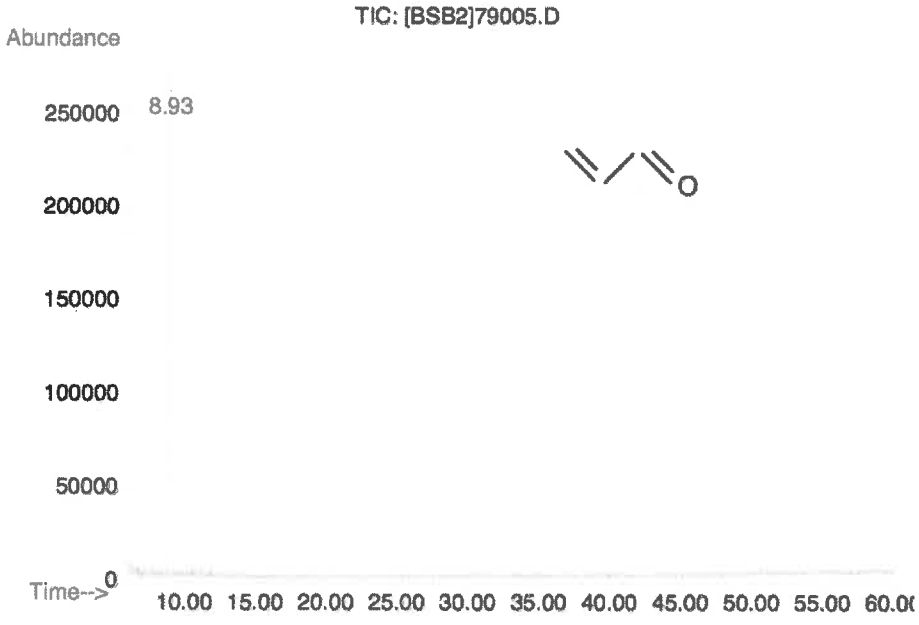
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

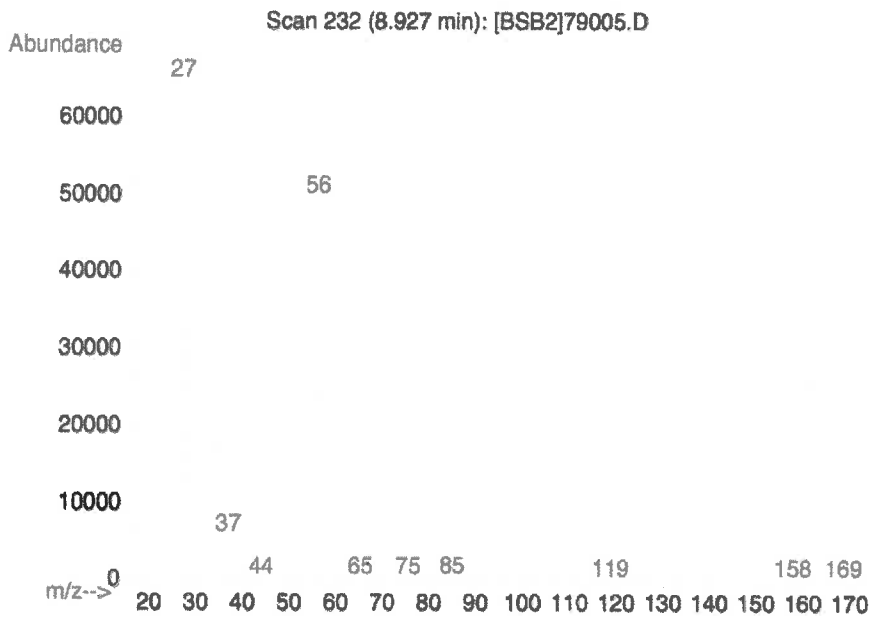
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
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	0.05181	5014.7	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.





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Certified Reference Material CRM

Rec 07/17/25 5 vial

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 041725Q

V15050 to
~~V15054~~ V15056
V15054

Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

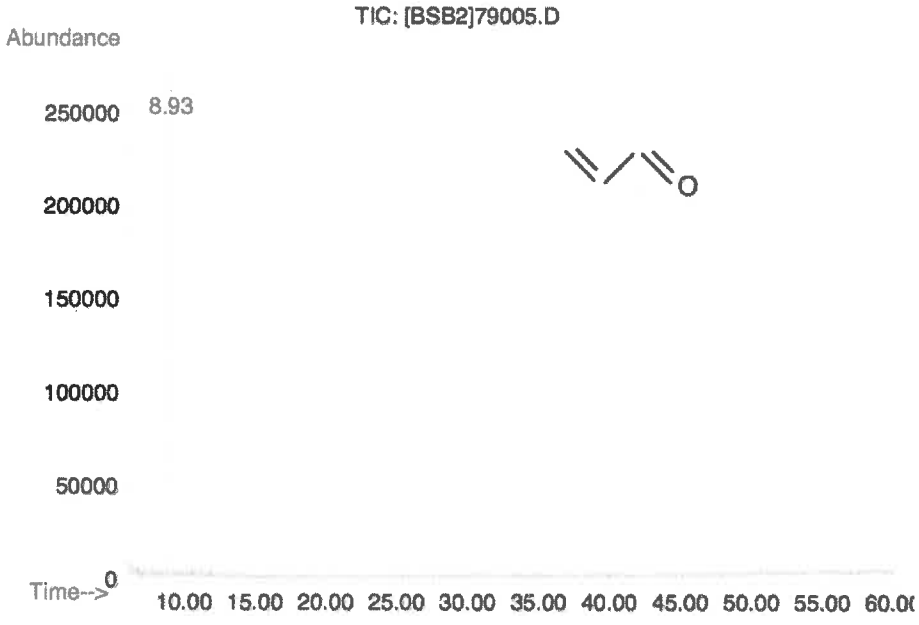
Pedro Rentas 071625
Reviewed By: Pedro L. Rentas DATE

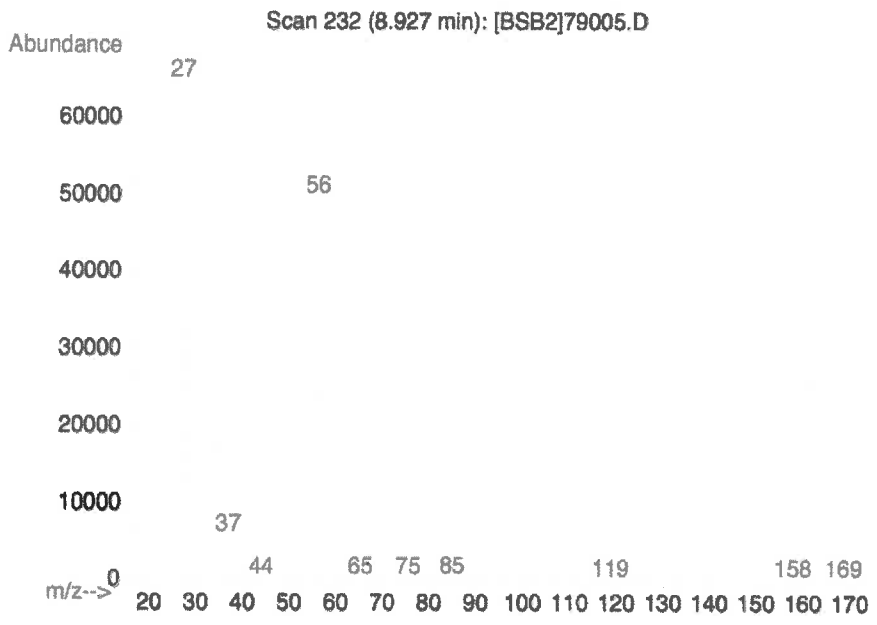
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

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	0.05181	5014.7	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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Certified Reference Material CRM

2 vials Rec 07117125

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	071525
Description:	Acrolein
Expiration Date:	081525
Recommended Storage:	Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s):	**Lot#**
Water	041725Q

V150557
V150556

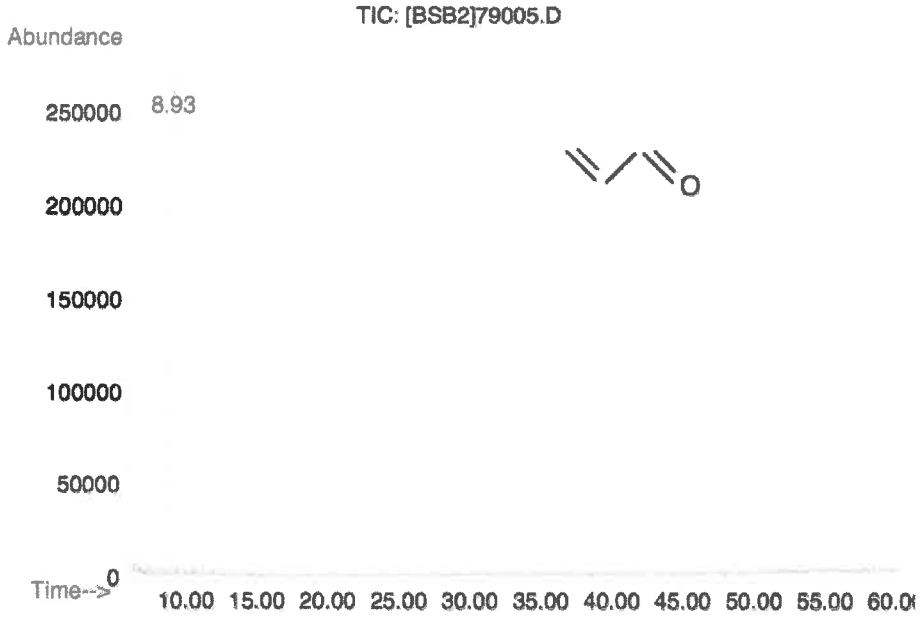
5E-05 Balance Uncertainty

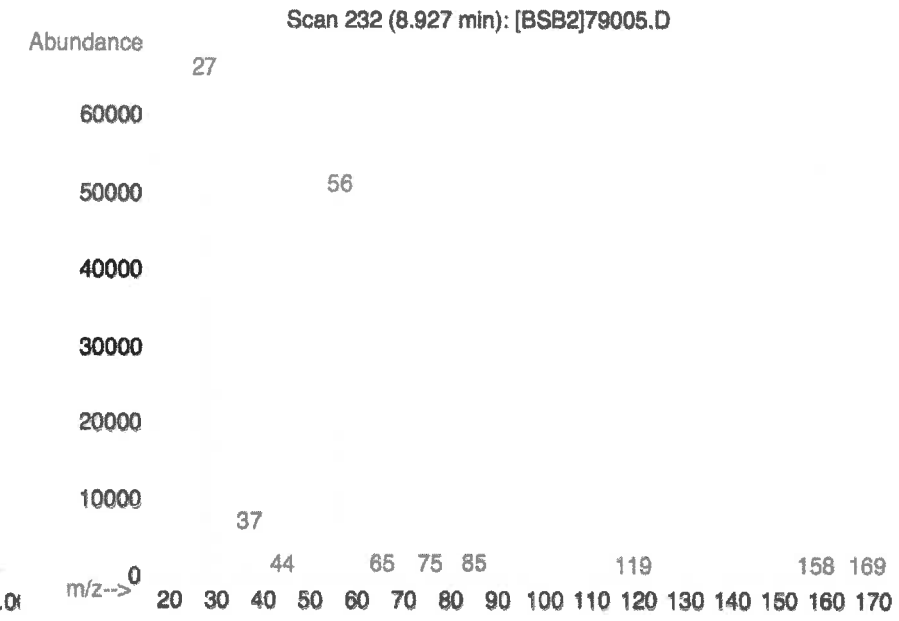
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Justin Dippold	071525
Formulated By: Justin Dippold	DATE
Pedro Rentas	071525
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	103755R02H	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

2 vials Rec 0711725

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 071525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15055
V15056

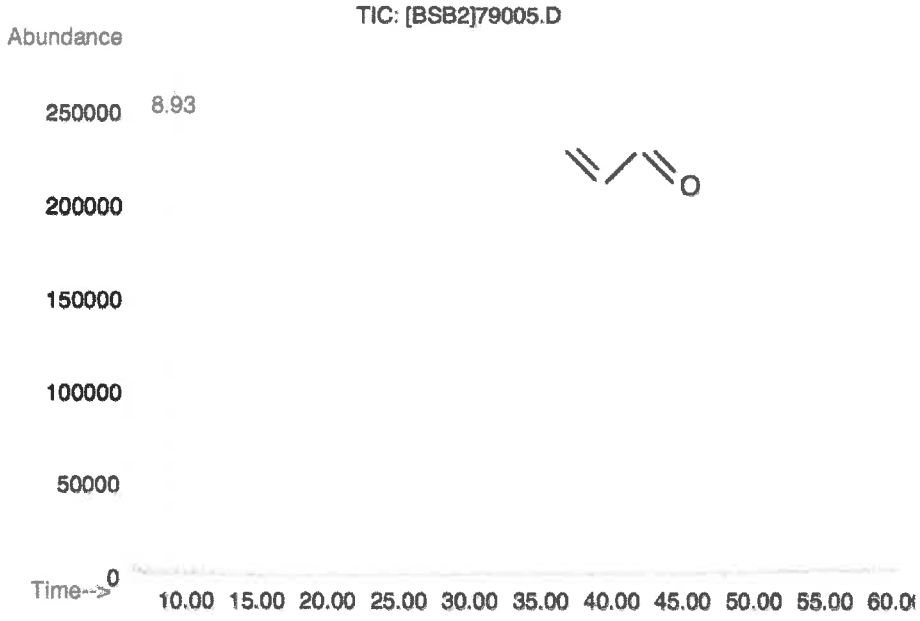
Expiration Date: 081525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

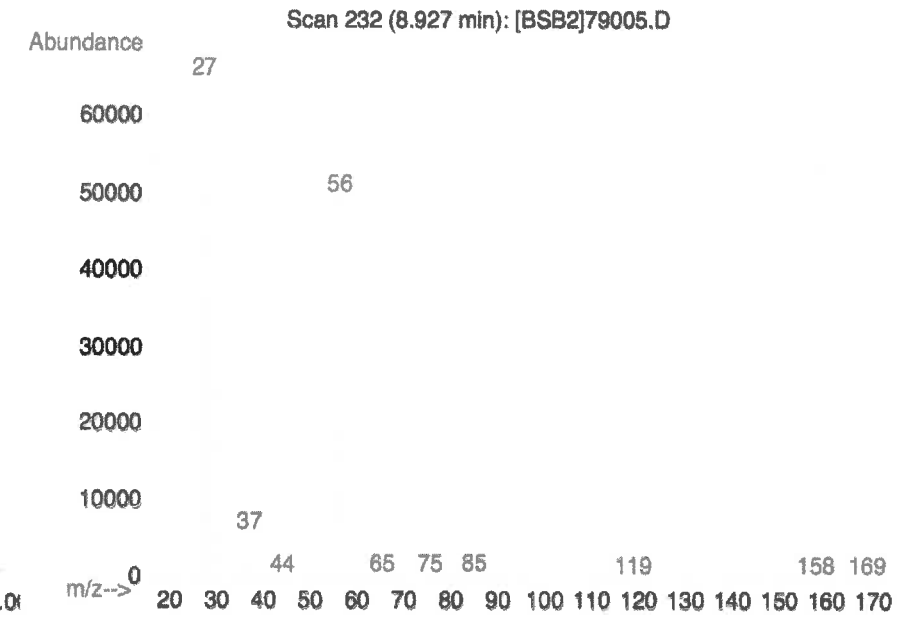
Justin Dippold 071525
Formulated By: Justin Dippold DATE

Pedro Rentas 071525
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	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 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

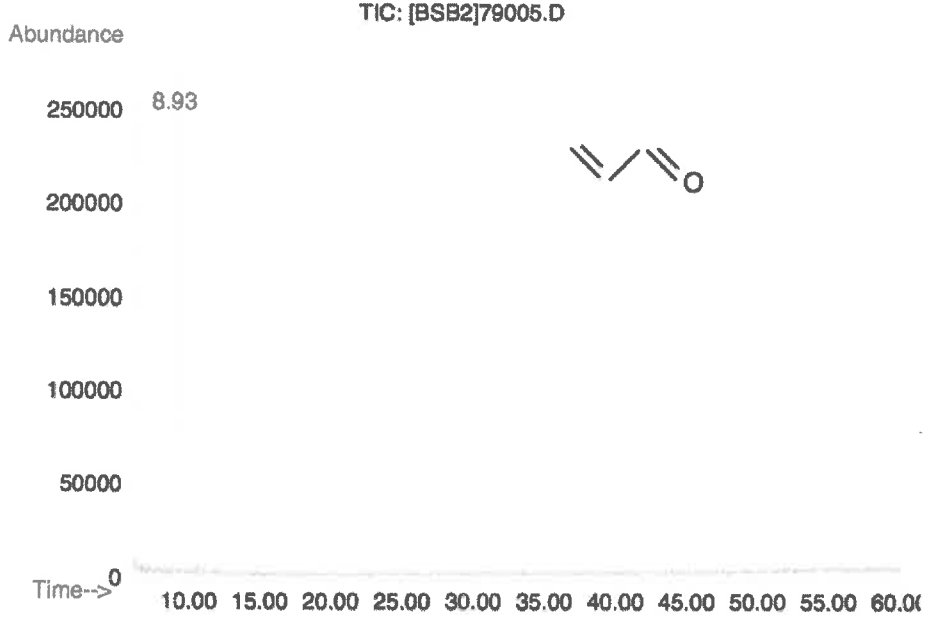
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

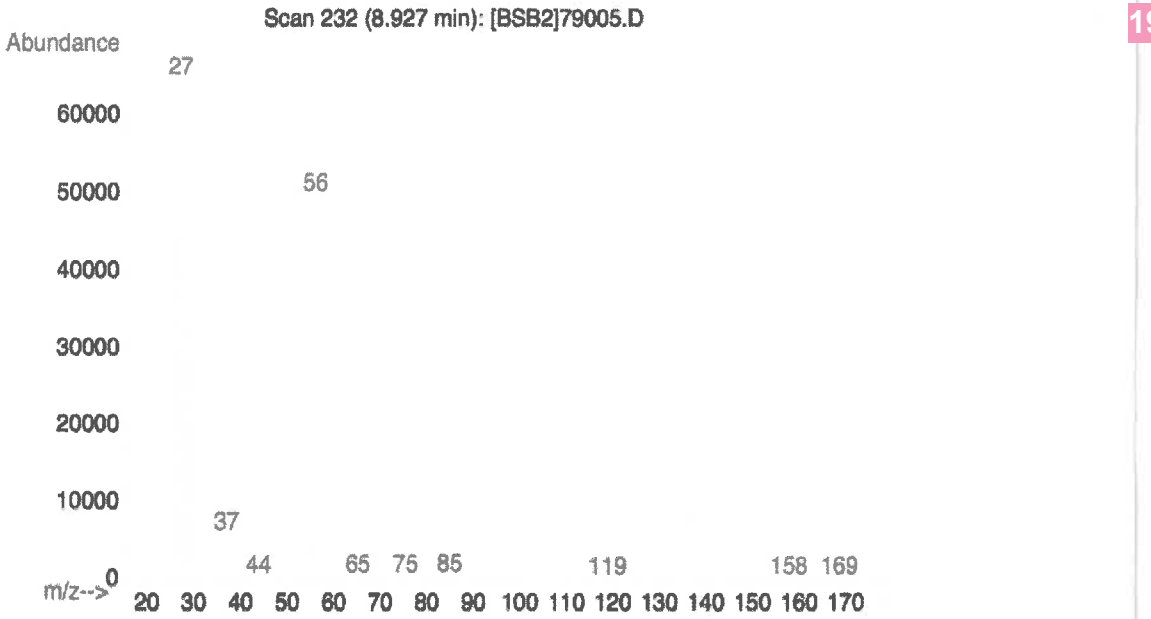
Weight(s) shown below were combined and diluted to (mL): 10.0

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.





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CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	081325
Description:	Acrolein
Expiration Date:	091325
Recommended Storage:	Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

V15057 to V15061

Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

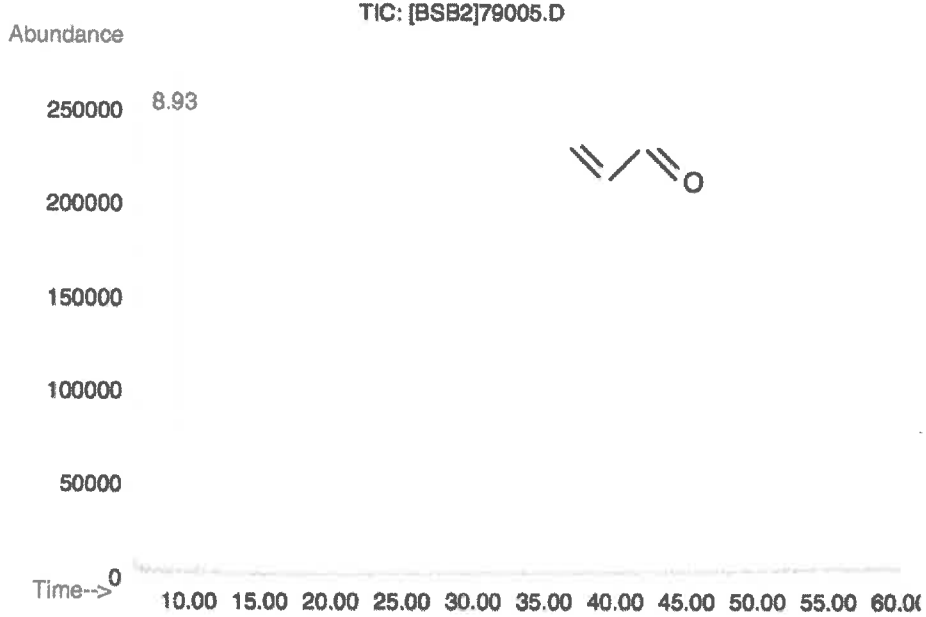
Pedro Rentas 081325
Reviewed By: Pedro L. Rentas DATE

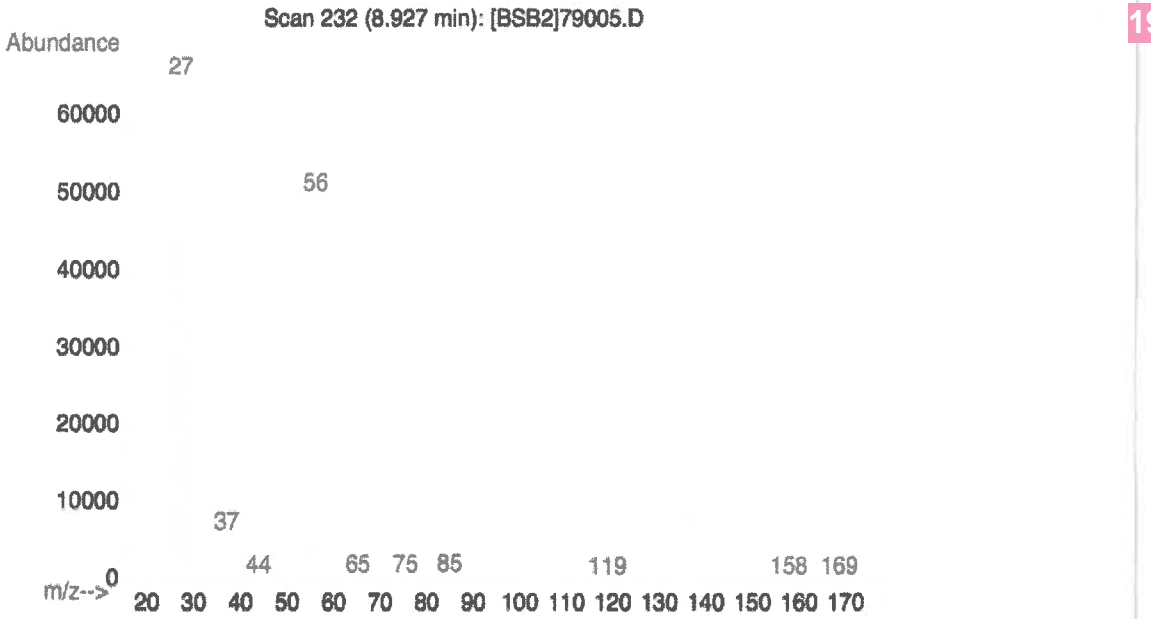
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

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.





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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

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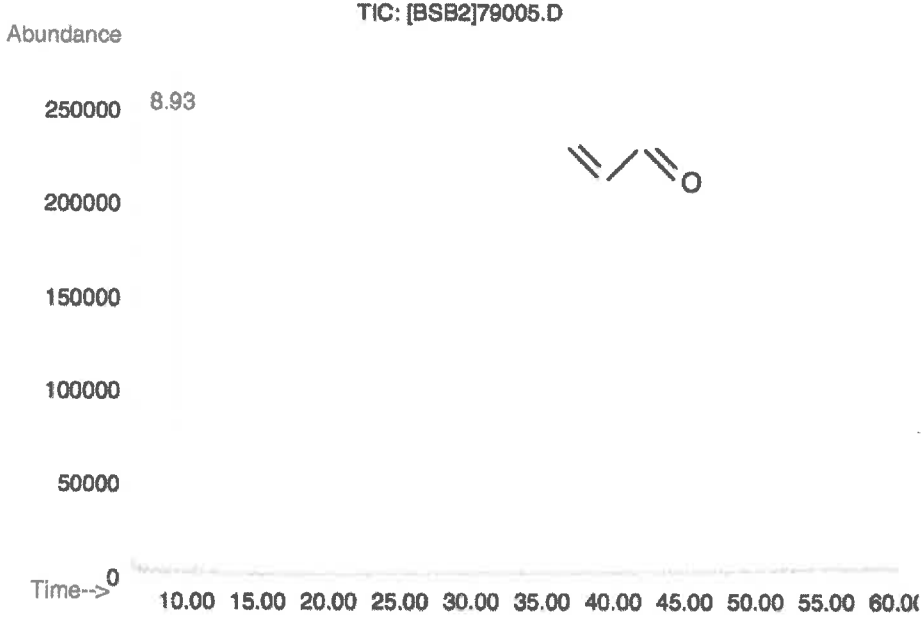

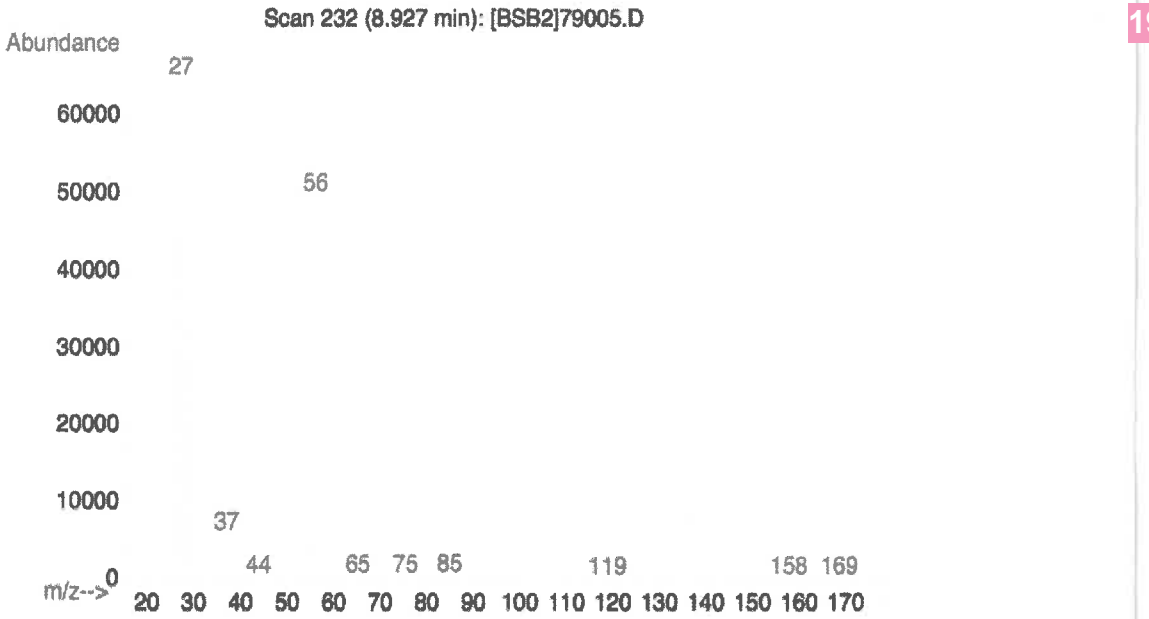

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

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	Q2819-01	39.51-30.99=8.52	14:21	39.13-31.06=8.07	14:22	37.56-28.35=9.21	14:23	V14143	08/11/2025	8260 TERRACORE SAMPLES
2	Q2819-02	38.43-31.15=7.28	14:27	38.47-31.24=7.23	14:28	35.28-28.22=7.06	14:29	V14143	08/11/2025	
3	Q2819-03	38.75-31.22=7.53	14:30	38.05-31.15=6.9	14:31	36.71-28.30=8.41	14:31	V14143	08/11/2025	
4	Q2819-04	36.64-30.96=5.68	14:32	37.77-30.92=6.85	14:33	34.30-28.38=5.92	14:34	V14143	08/11/2025	
5	Q2819-05	37.25-31.04=6.21	14:35	37.62-31.28=6.34	14:36	34.20-28.09=6.11	14:37	V14143	08/11/2025	
6	Q2819-06	36.90-31.19=5.71	14:38	36.58-31.33=5.25	14:39	34.26-28.44=5.82	14:40	V14143	08/11/2025	
7	Q2819-07	37.45-31.13=6.32	14:41	37.35-31.27=6.08	14:42	35.58-28.15=7.43	14:43	V14143	08/11/2025	
8	Q2819-08	36.73-31.26=5.47	14:42	36.96-31.08=5.88	14:44	33.60-28.27=5.33	14:45	V14143	08/11/2025	
9	Q2819-09	35.60-31.19=4.41	14:46	35.24-31.18=4.06	14:45	32.19-28.28=3.91	14:45	V14143	08/11/2025	
10	Q2819-10	36.48-30.96=5.52	14:45	35.84-30.88=4.96	14:46	33.54-28.34=5.2	14:46	V14143	08/11/2025	
11	Q2819-11	36.46-31.00=5.46	14:47	37.97-31.04=6.93	14:47	34.11-28.37=5.74	14:47	V14143	08/11/2025	
12	Q2819-12	37.70-31.19=6.51	14:47	37.93-31.06=6.87	14:48	34.37-28.42=5.95	14:48	V14143	08/11/2025	
13	Q2819-13	37.44-30.93=6.51	14:48	36.94-31.18=5.76	14:48	33.26-28.34=4.92	14:49	V14143	08/11/2025	
14	Q2819-14	37.71-30.99=6.72	14:50	37.90-30.78=7.12	14:51	34.53-28.38=6.15	14:52	V14143	08/11/2025	
15	Q2819-15	36.98-31.17=5.81	14:51	37.22-31.16=6.06	14:51	33.75-28.15=5.6	14:52	V14143	08/11/2025	

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	Q2819-16	37.55-31.31=6.24	14:52	37.83-31.21=6.62	14:53	34.70-28.58=6.12	14:53	V14143	08/11/2025	
17	Q2819-17	40.26-30.86=9.4	14:53	40.99-31.43=9.56	14:54	36.88-28.13=8.75	14:55	V14143	08/11/2025	
18	Q2819-18	40.72-31.33=9.39	14:56	40.69-31.10=9.59	14:57	37.57-28.26=9.31	14:57	V14143	08/11/2025	
19	Q2819-19	37.94-31.21=6.73	14:58	37.48-31.10=6.38	14:59	34.54-28.23=6.31	14:59	V14143	08/11/2025	
20	Q2819-20	36.82-31.14=5.68	14:59	38.56-31.20=7.36	15:00	35.28-28.48=6.8	15:01	V14143	08/11/2025	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

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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. Q2819
COC Number 2045329

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: First Environment
ADDRESS: 10 Park Pl Bldg 1A Suite 304
CITY Butler STATE: NJ ZIP: 07405
ATTENTION: Al Smith
PHONE: 973-334-0003 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: USACE FIMP
PROJECT NO.: USACE018-44 LOCATION: Long Island, NY
PROJECT MANAGER: Al Smith
e-mail: asmith@firstenvironment.com
PHONE: 973-334-0003 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
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 5: metals 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.	22BP-N	S			8/4/25	1500	5	X									
2.	22BP-E	S				1434	5	X									
3.	22BP-W	S				1418	5	X									
4.	22BP-S	S				1427	5	X									
5.	11M-W	S			8/5/25	1015	5	X									
6.	11M-S	S				0955	7	X	X	X							
7.	11M-N	S				1100	5	X									
8.	11M-E	S				1110	5	X									
9.	845B-E	S				1340	5	X									
10.	845B-S	S				1410	5	X									

PRESERVATIVES: ← Specify Preservatives — A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. GMC	6:01	1. 8.8.25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.8i °C
Comments:

Page 1 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. Q2819
COC Number 2045330

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

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ANALYSIS

1 VOC | 2 SVOC | 3 Pest | 4 PCB | 5 Metals | 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.	84 SB-W	S	C		8/5/25	1400	7	X	X	X							← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
2.	17M-S					1605	5	X									
3.	17M-E					1700	5	X									
4.	17M-W					1620	7	X	X	X							
5.	17M-N					1640	5	X									
6.	38M-S				8/6/25	0935	5	X									
7.	38M-N					1005	5	X									
8.	38M-W					0955	5	X	X	X							
9.	38M-E					1020	5	X									
10.	82H-E					1205	5	X									

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 3.6 °C
Comments:

Page 2 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2819 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:06:00 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
Q2819-01	22BP-N	Solid	08/04/2025	15:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-02	22BP-E	Solid	08/04/2025	14:34					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-03	22BP-W	Solid	08/04/2025	14:18					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-04	22BP-S	Solid	08/04/2025	14:27					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-05	11M-W	Solid	08/05/2025	10:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-06	11M-S	Solid	08/05/2025	09:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-07	11M-N	Solid	08/05/2025	11:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-08	11M-E	Solid	08/05/2025	11:10					

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

DP 08/16/2025

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2819 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
Invoice Name : First Environment, Inc.
Invoice Contact : Al Smith

Order Date : 8/11/2025 12:06:00 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		
Q2819-09	84SB-E ~~845SB-E~~	Solid	08/05/2025	13:40						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2819-10	84SB-S ~~845SB-S~~	Solid	08/05/2025	14:10						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2819-11	84SB-W ~~845SB-W~~	Solid	08/05/2025	14:00						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2819-12	17M-S	Solid	08/05/2025	16:05						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2819-13	17M-E	Solid	08/05/2025	17:00						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2819-14	17M-W	Solid	08/05/2025	16:20						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q2819-15	17M-N	Solid	08/05/2025	16:40						
					VOC-TCLVOA-10		8260D	10 Bus. Days		

Alliance TECHNICAL GROUP
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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2819 FIRS02
Client Name : First Environment, Inc.
Client Contact : Al Smith
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Invoice Contact : Al Smith

Order Date : 8/11/2025 12:06:00 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
Q2819-16	38M-S	Solid	08/06/2025	09:35					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-17	38M-N	Solid	08/06/2025	10:05					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-18	38M-W	Solid	08/06/2025	09:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-19	38M-E	Solid	08/06/2025	10:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q2819-20	82H-E	Solid	08/06/2025	12:05					
					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**

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

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)
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)

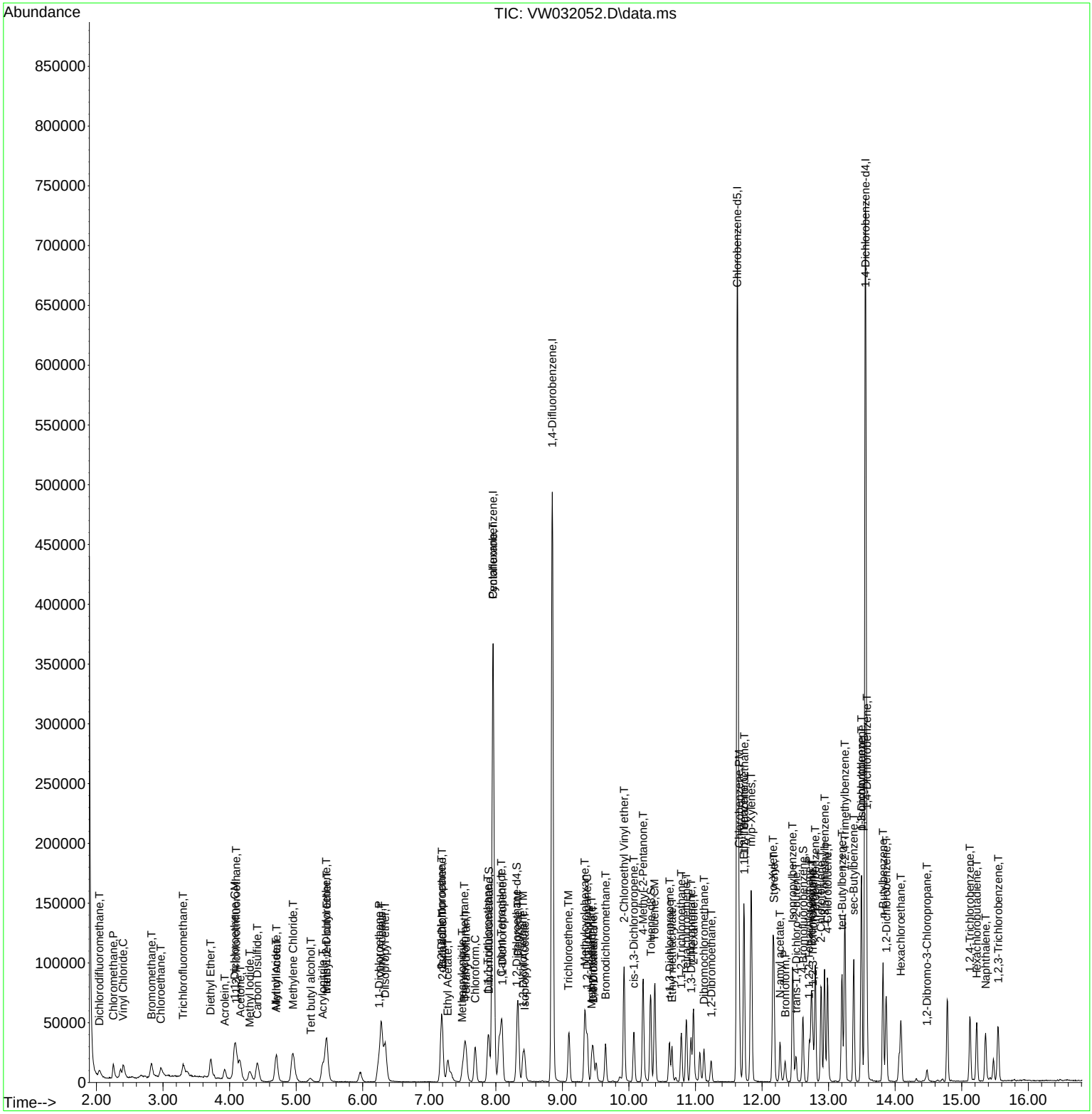
(#) = qualifier out of range (m) = manual integration (+) = signals summed

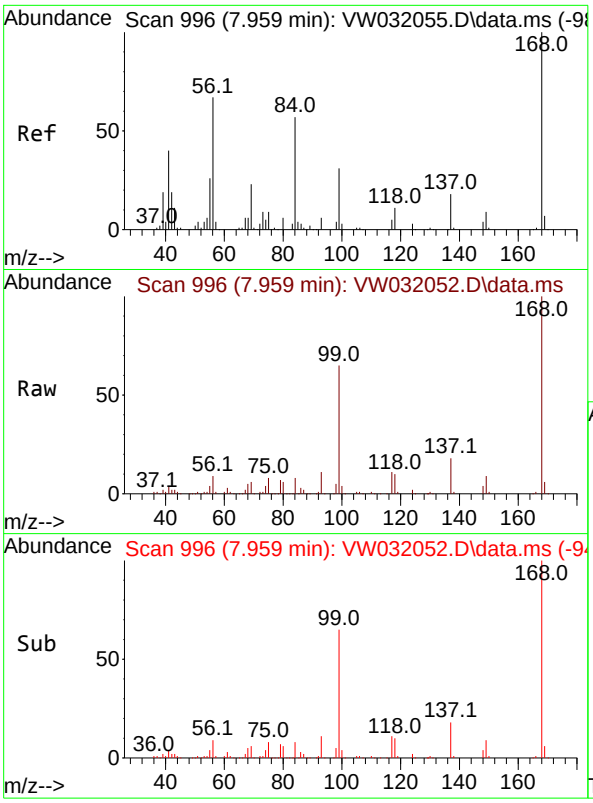
Quantitation Report (Not Reviewed)

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



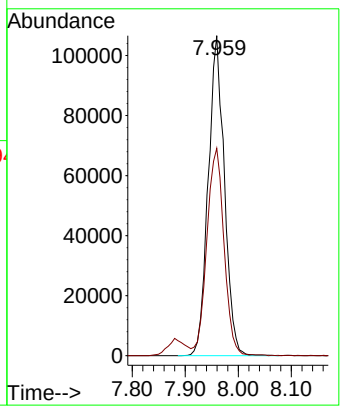


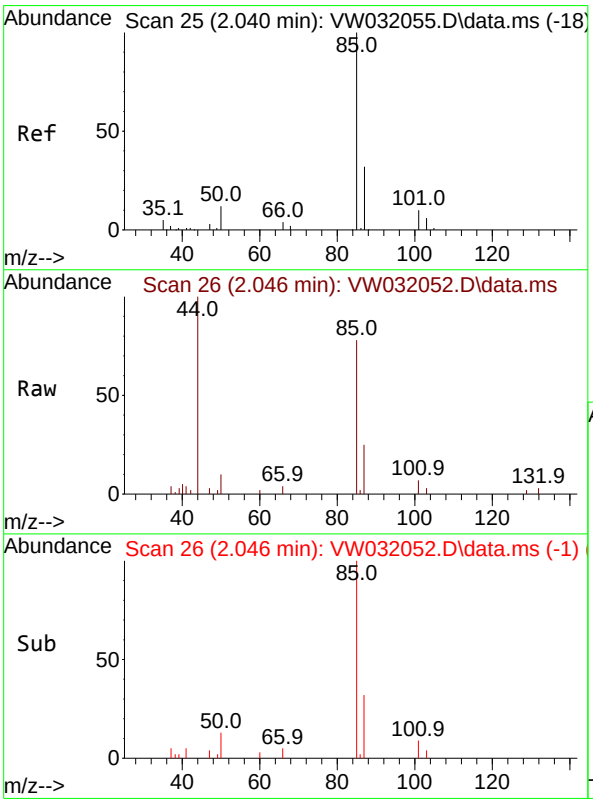
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 225574

Ion	Ratio	Lower	Upper
168	100		
99	64.7	56.0	84.0

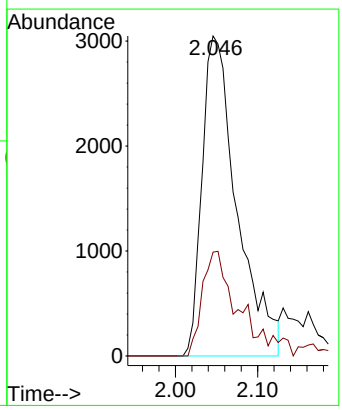


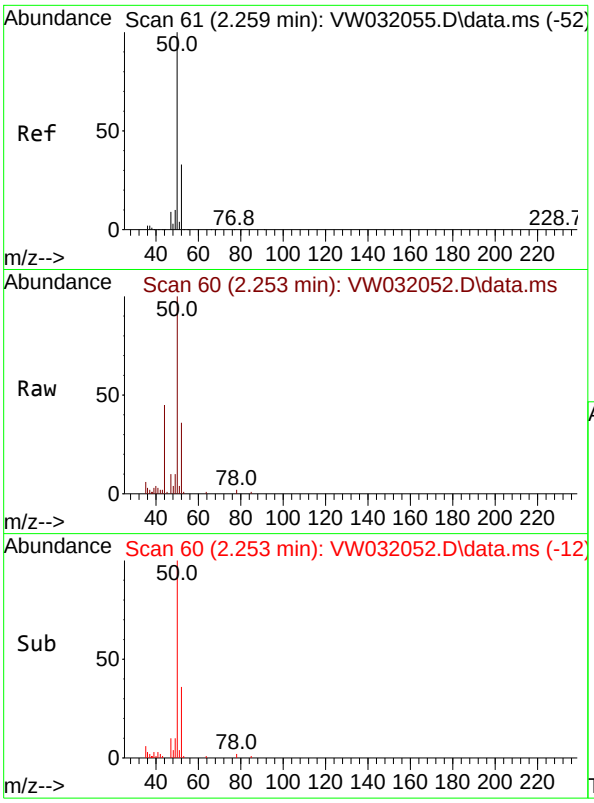


#2
Dichlorodifluoromethane
Concen: 5.583 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 85 Resp: 9007

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.2	48.6



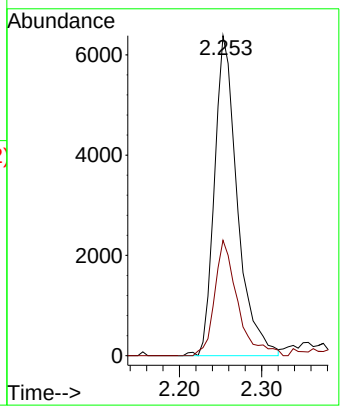


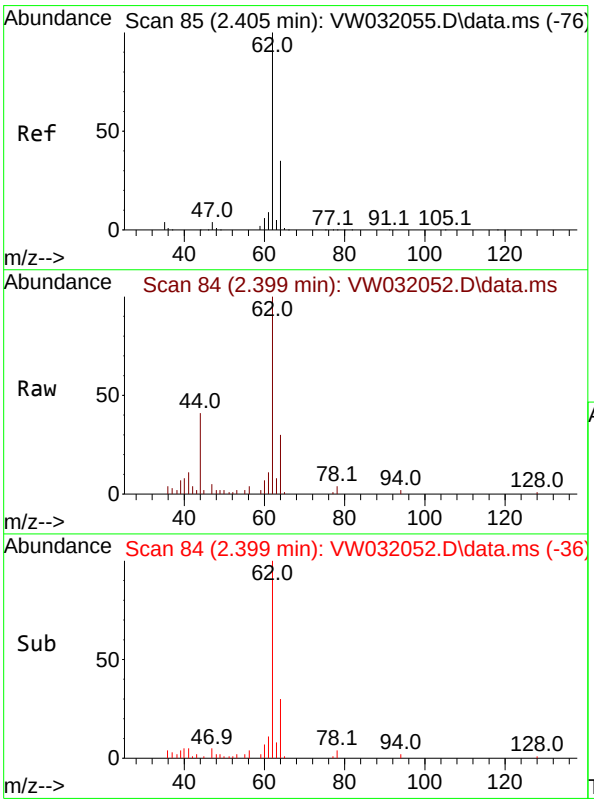
#3
Chloromethane
Concen: 5.695 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 12377

Ion	Ratio	Lower	Upper
50	100		
52	36.1	26.6	39.8

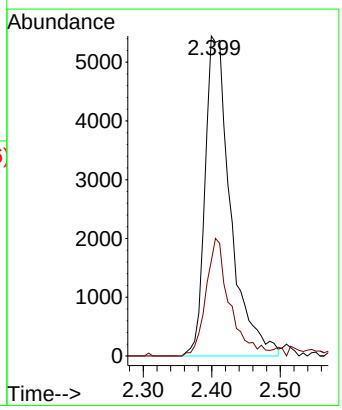


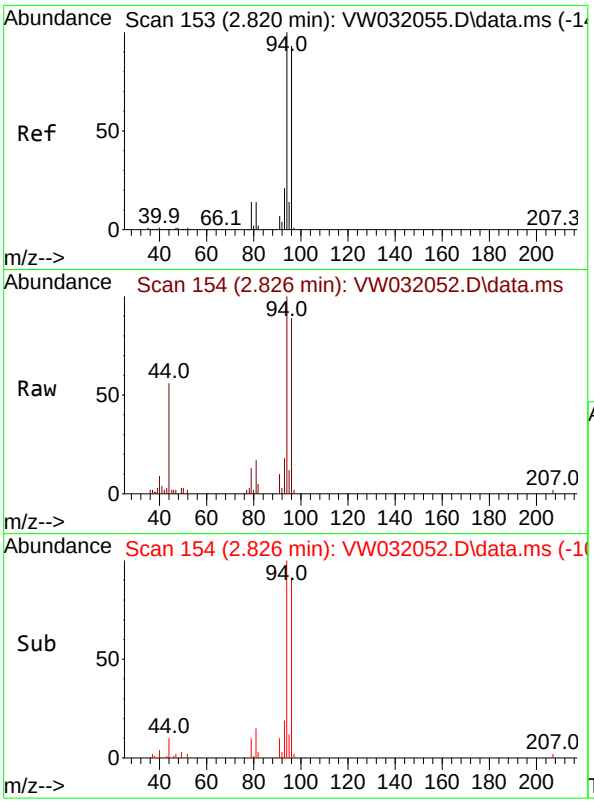


#4
Vinyl Chloride
Concen: 5.337 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 14029

Ion	Ratio	Lower	Upper
62	100		
64	29.8	27.8	41.6



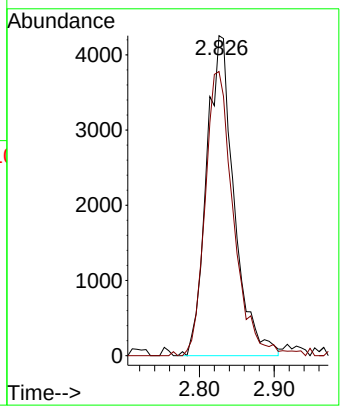


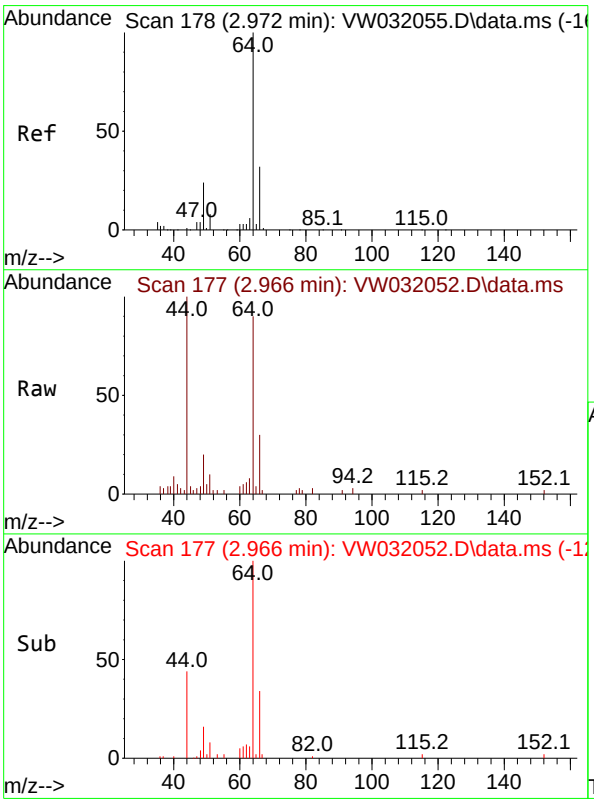
#5
Bromomethane
Concen: 5.516 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 10878

Ion	Ratio	Lower	Upper
94	100		
96	88.8	74.7	112.1

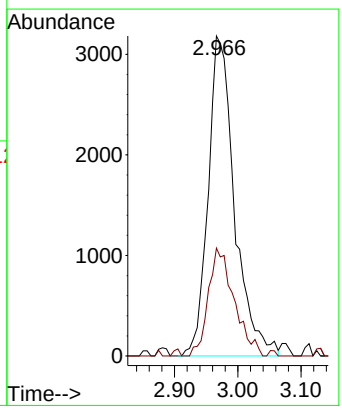


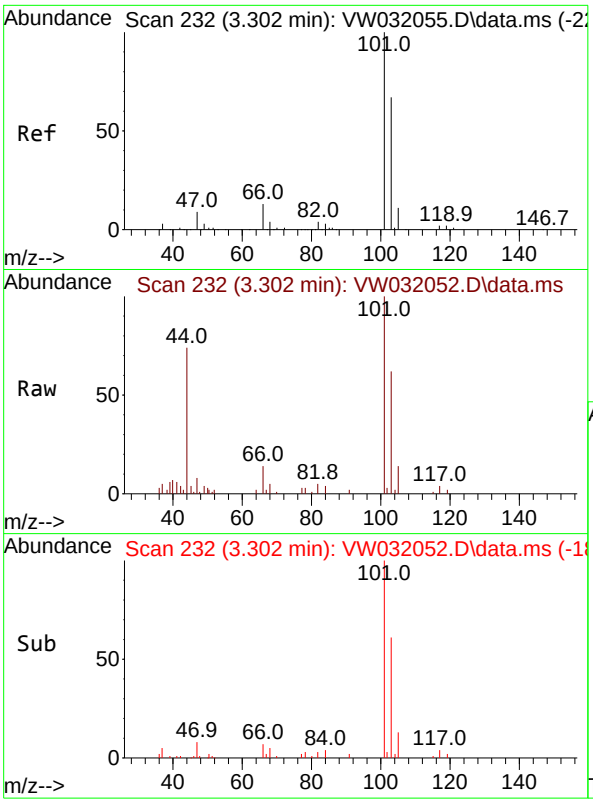


#6
Chloroethane
Concen: 5.300 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 64 Resp: 9219

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.0	39.0



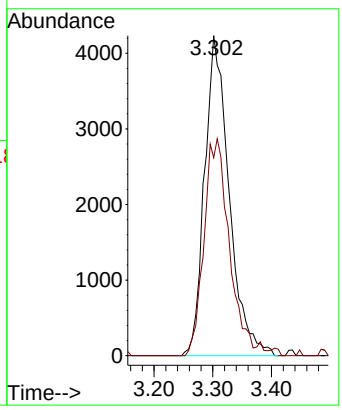


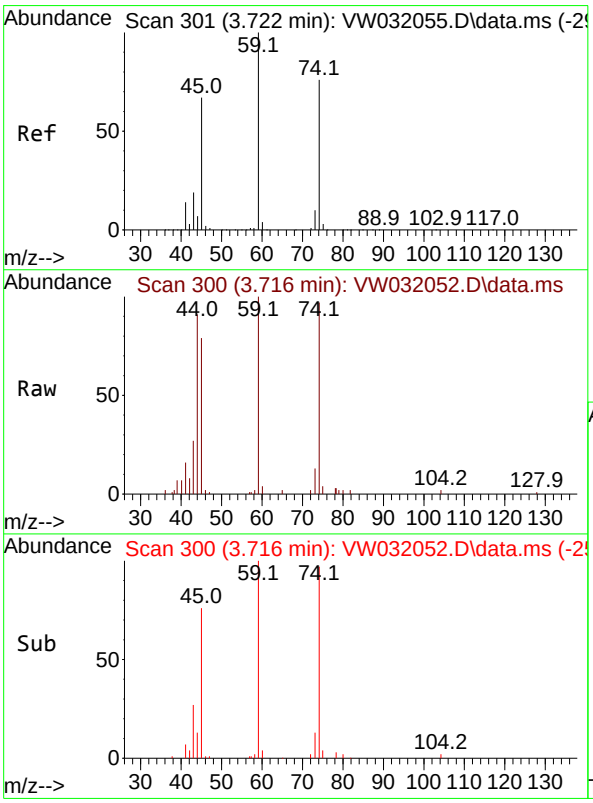
#7
Trichlorofluoromethane
Concen: 5.840 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 12298

Ion	Ratio	Lower	Upper
101	100		
103	61.8	53.4	80.0

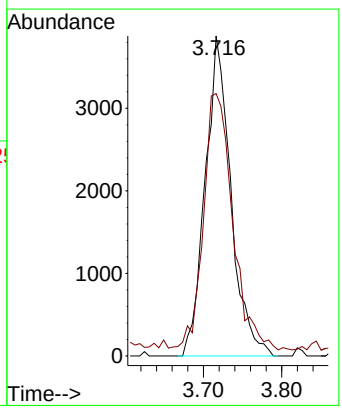


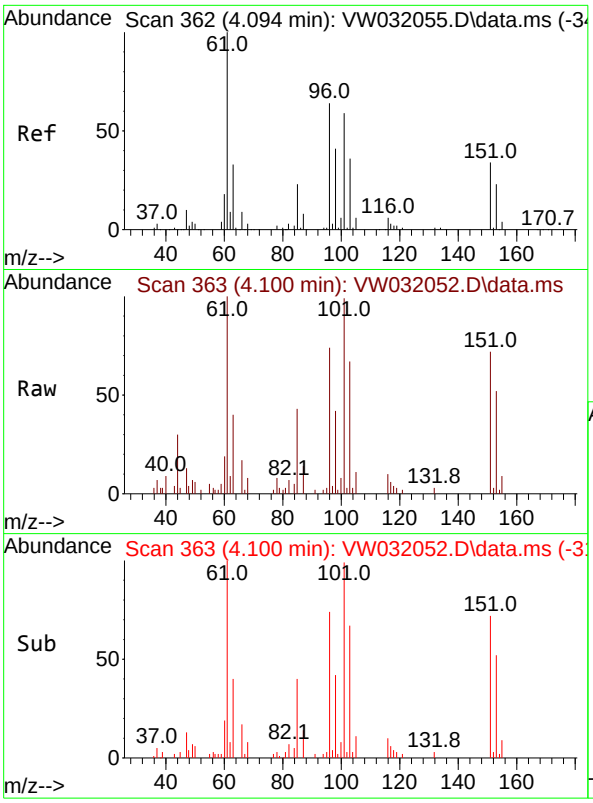


#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 74 Resp: 8824

Ion	Ratio	Lower	Upper
74	100		
45	92.8	45.4	136.2



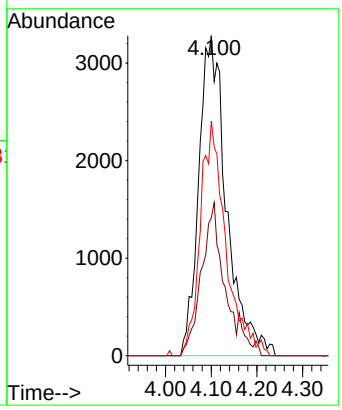


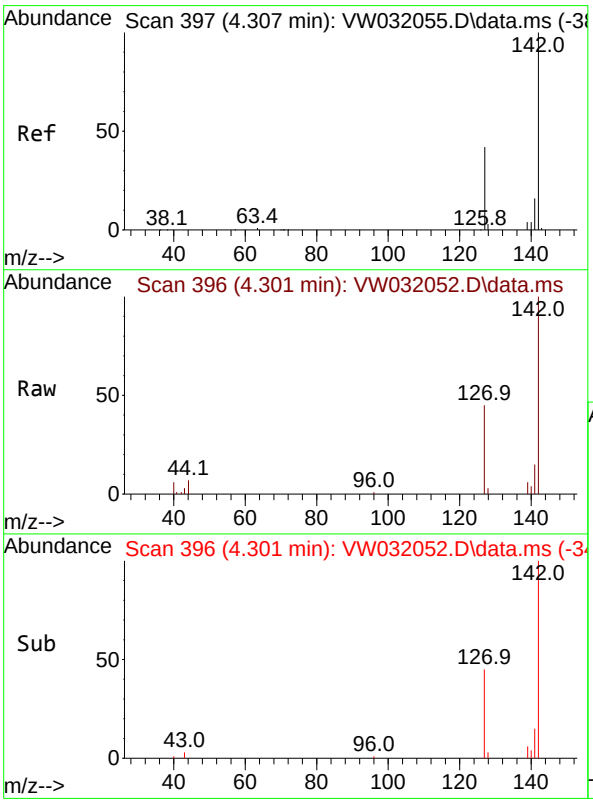
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.596 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

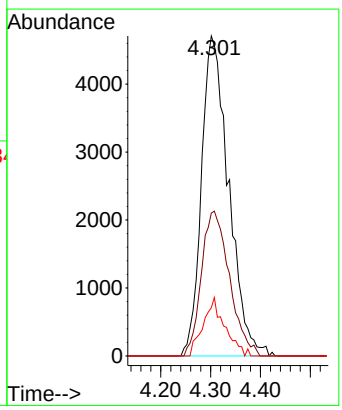


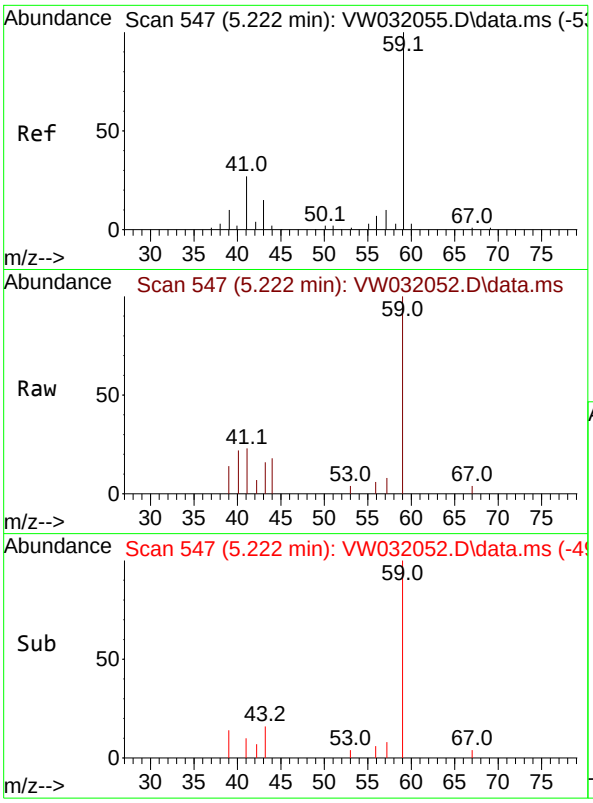


#10
Methyl Iodide
Concen: 5.050 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



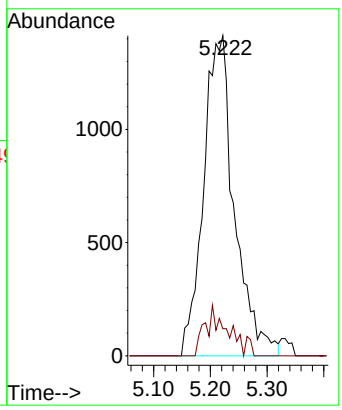


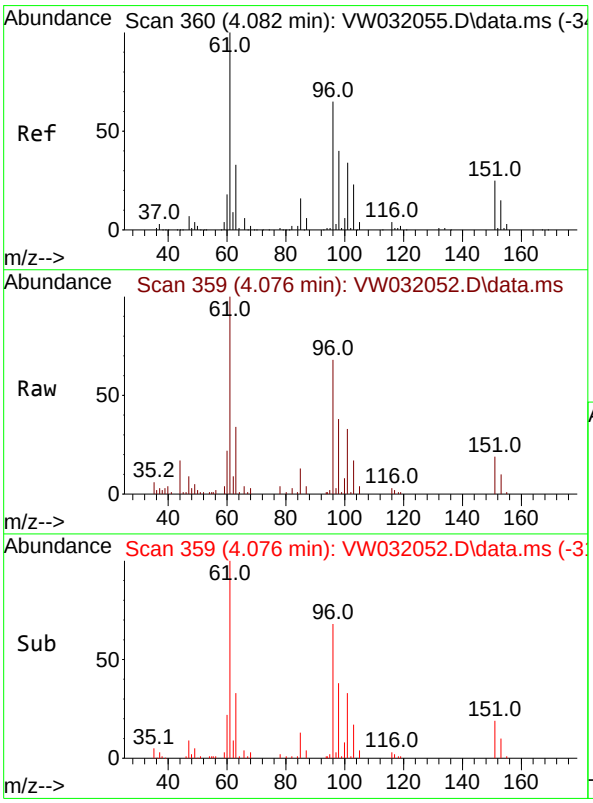
#11
Tert butyl alcohol
Concen: 25.221 ug/l
RT: 5.222 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 5328

Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.7	13.1

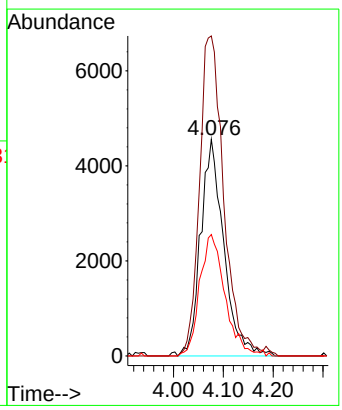


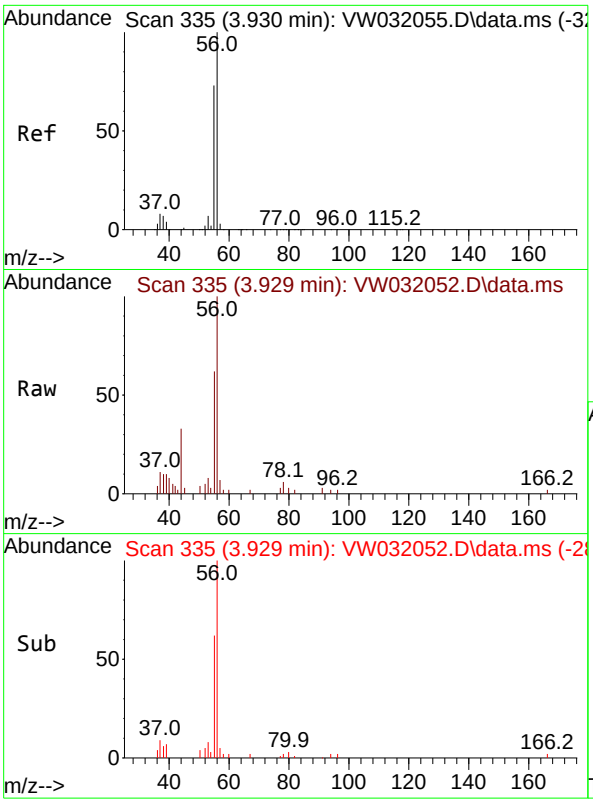


#12
1,1-Dichloroethene
Concen: 5.357 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



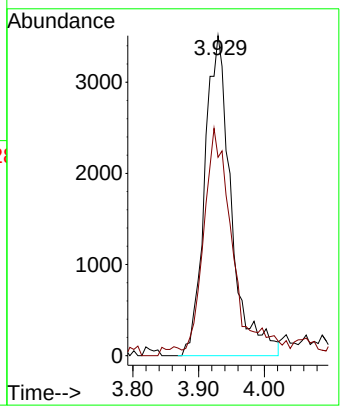


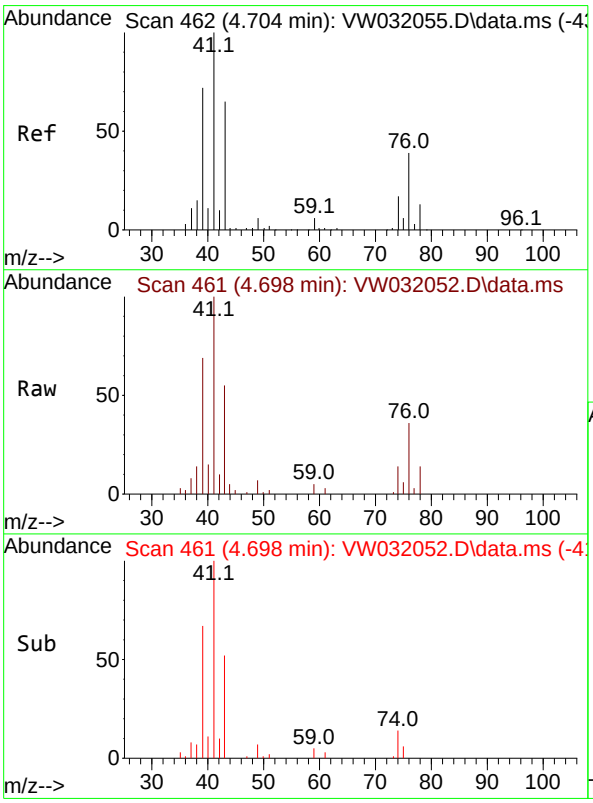
#13
Acrolein
Concen: 29.207 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 9831

Ion	Ratio	Lower	Upper
56	100		
55	78.5	55.4	83.2

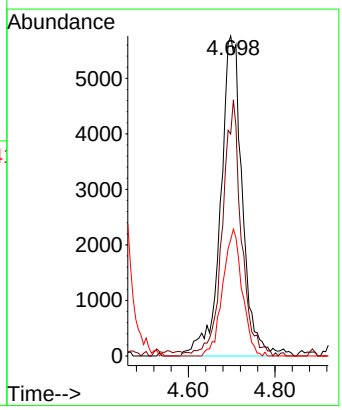


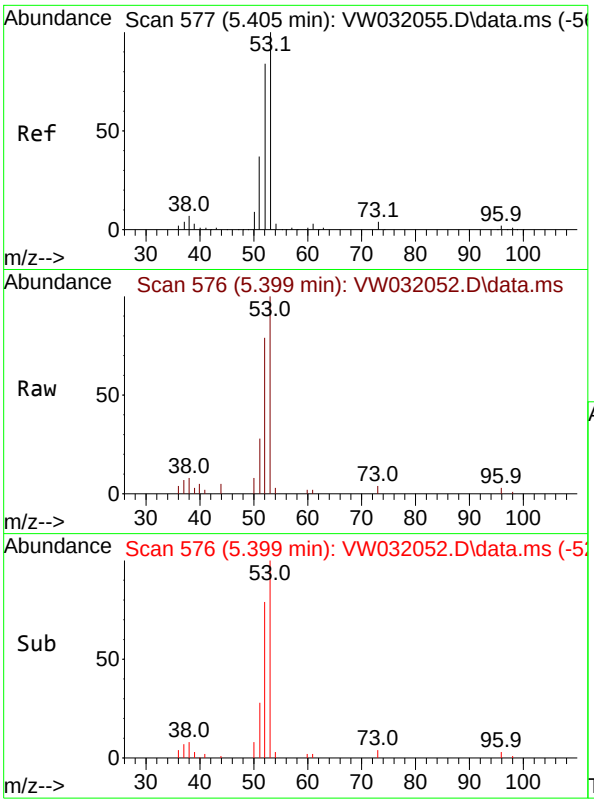


#14
Allyl chloride
Concen: 5.023 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



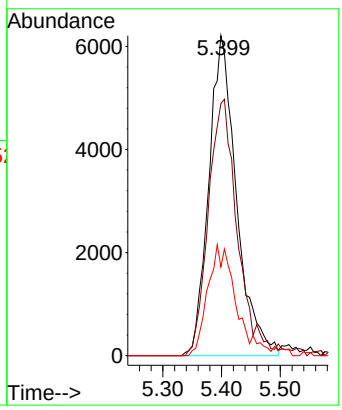


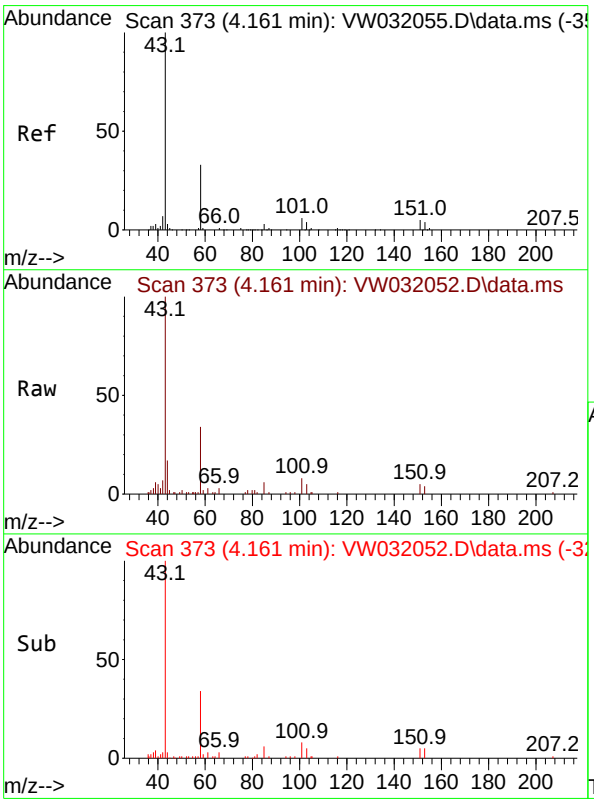
#15
Acrylonitrile
Concen: 24.751 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

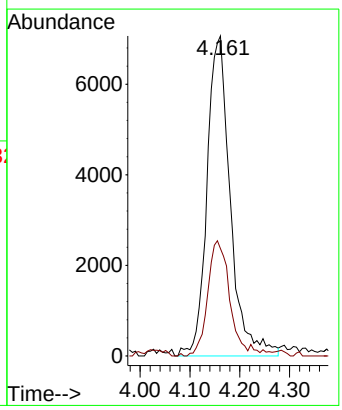


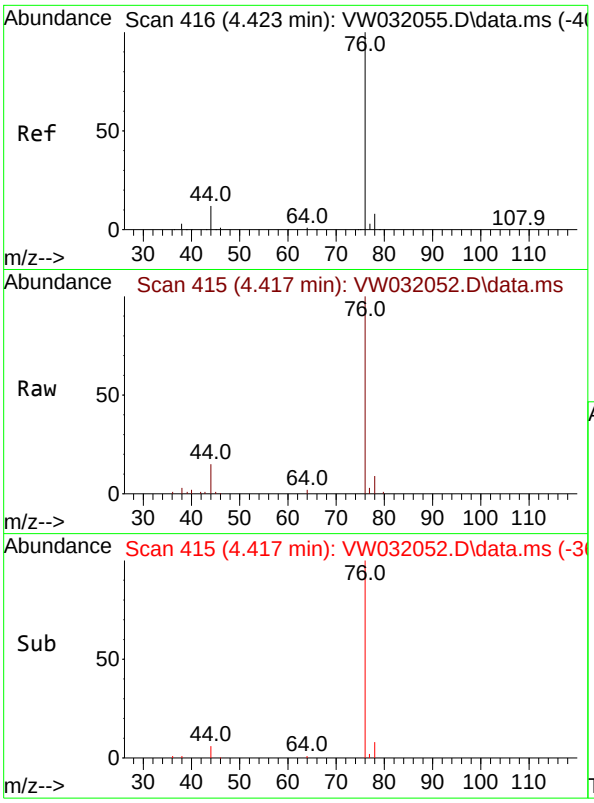


#16
Acetone
Concen: 30.337 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 22915

Ion	Ratio	Lower	Upper
43	100		
58	33.5	26.6	39.8



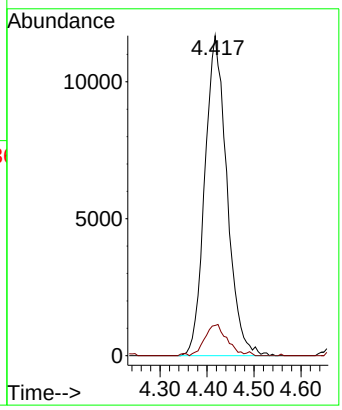


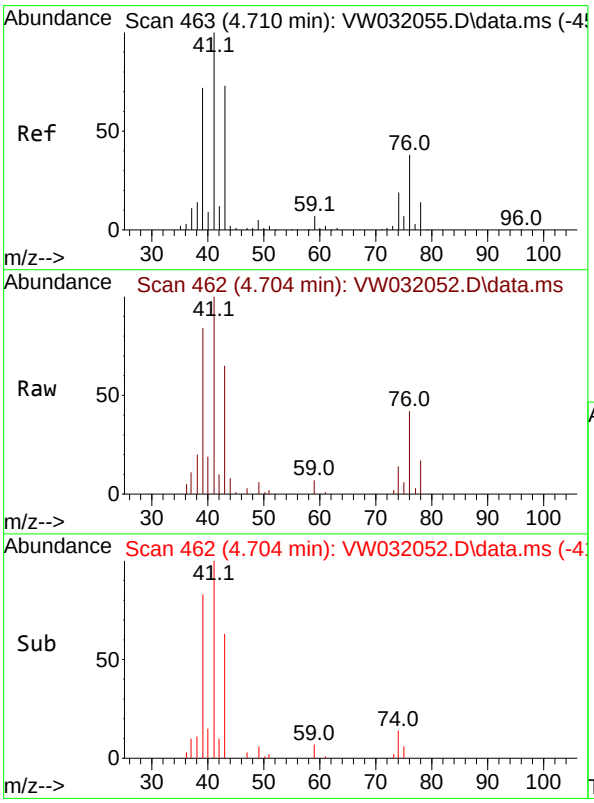
#17
Carbon Disulfide
Concen: 5.204 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 38213

Ion	Ratio	Lower	Upper
76	100		
78	9.4	6.4	9.6

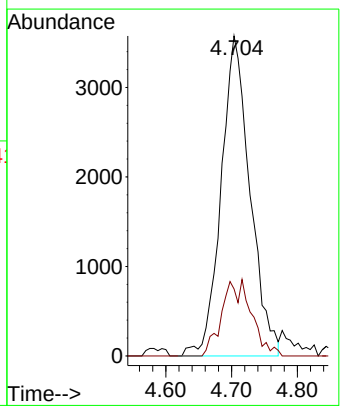


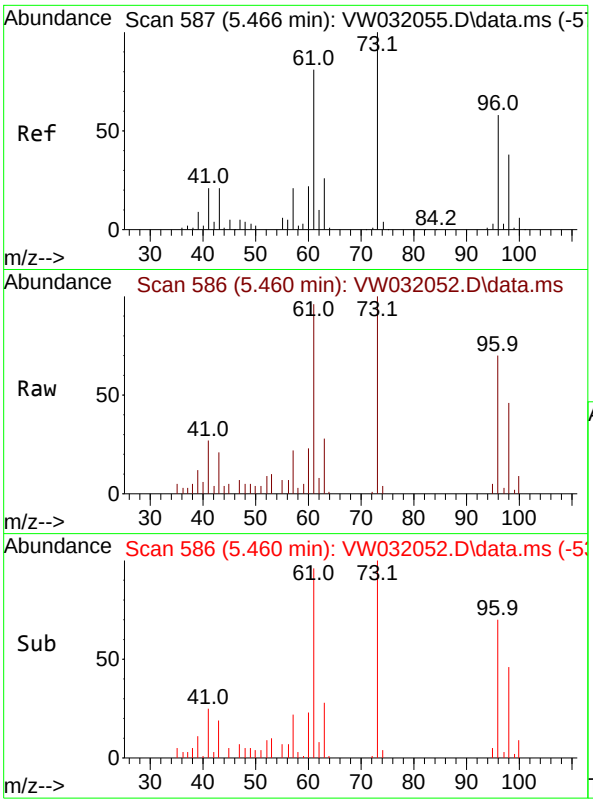


#18
Methyl Acetate
Concen: 4.578 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 10943

Ion	Ratio	Lower	Upper
43	100		
74	13.7	20.6	31.0#



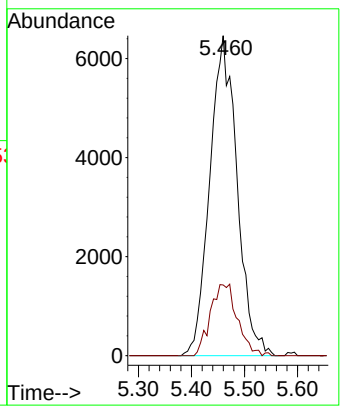


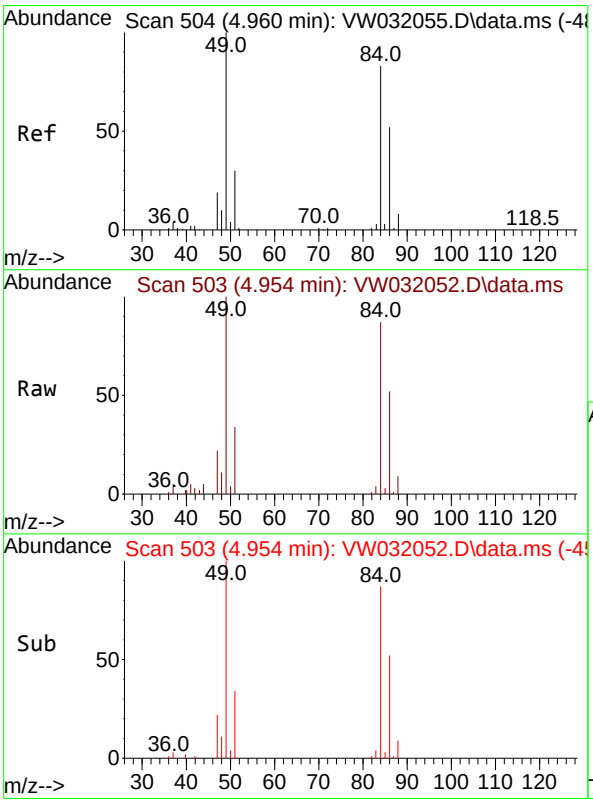
#19
Methyl tert-butyl Ether
Concen: 4.785 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 23062

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.2	25.8

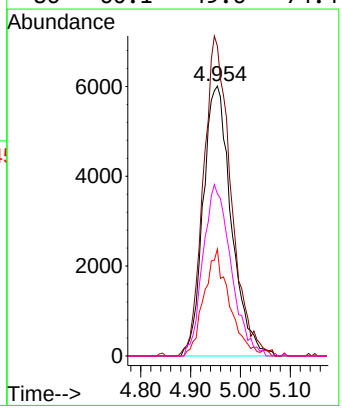


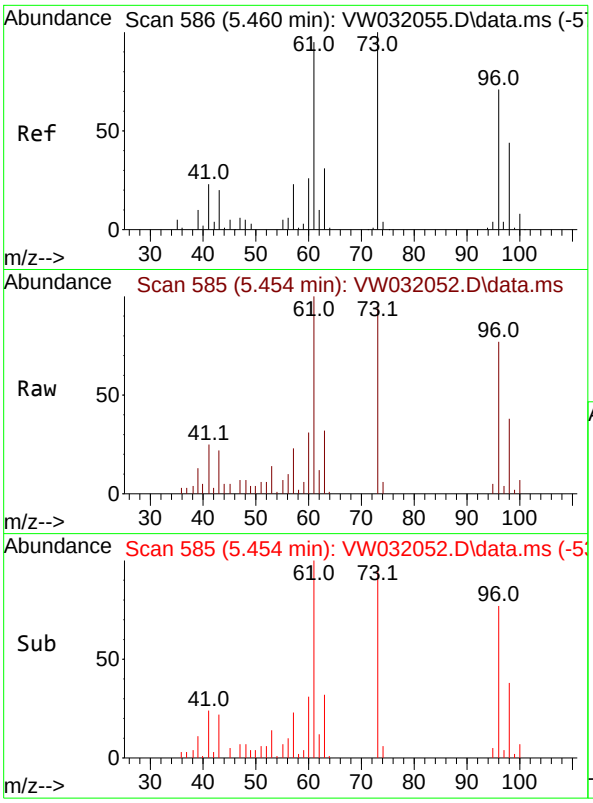


#20
Methylene Chloride
Concen: 6.737 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



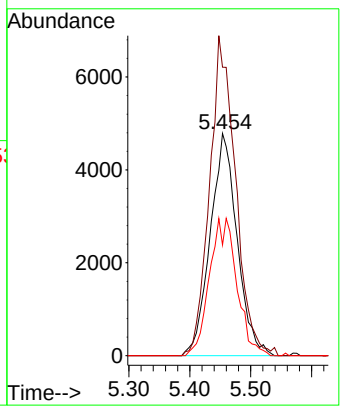


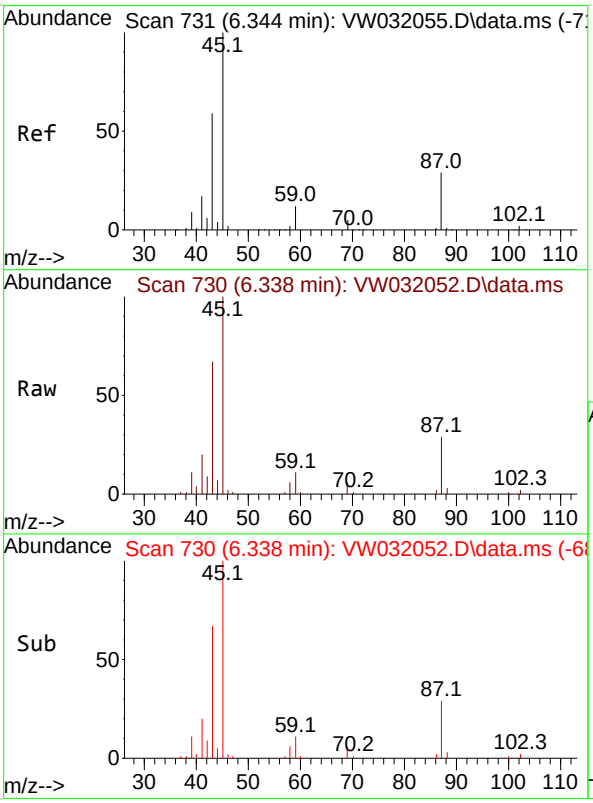
#21
trans-1,2-Dichloroethene
Concen: 5.053 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

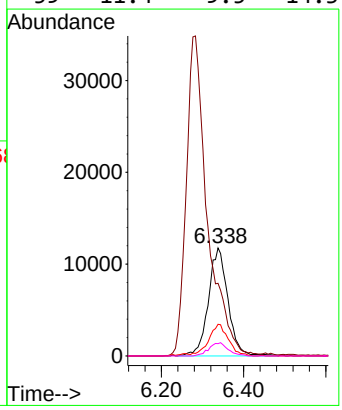


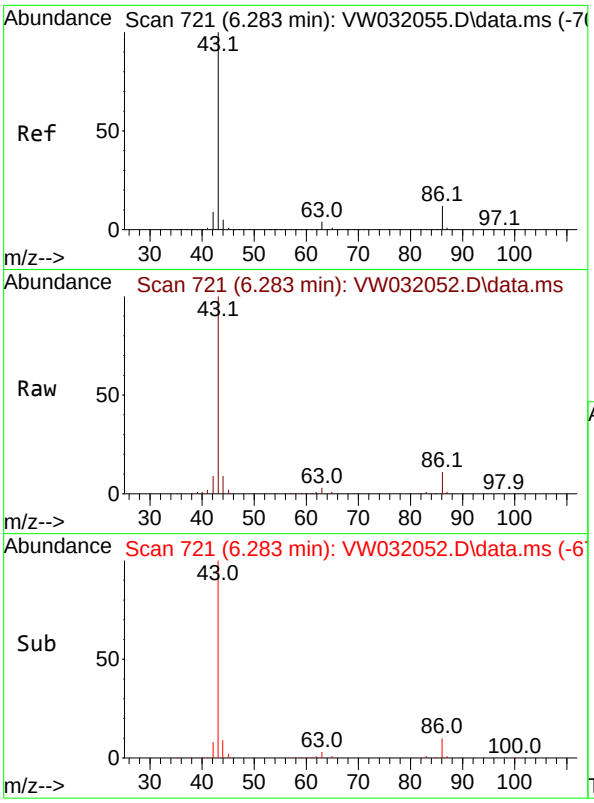


#22
Diisopropyl ether
Concen: 4.634 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



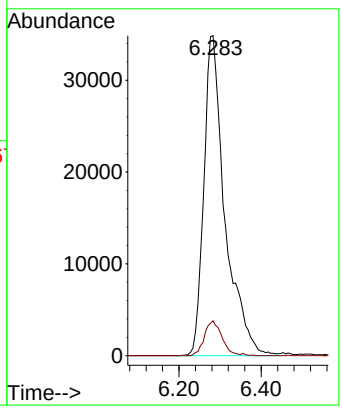


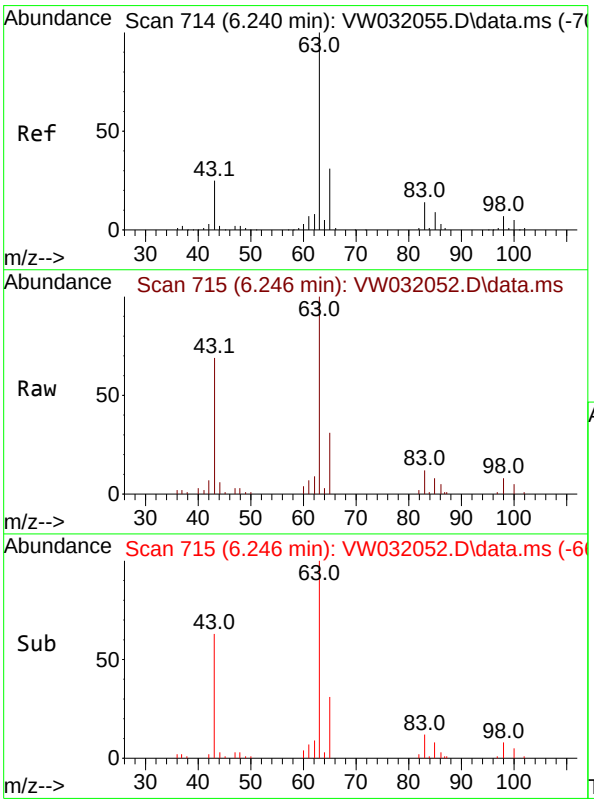
#23
Vinyl Acetate
Concen: 22.588 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 124477

Ion	Ratio	Lower	Upper
43	100		
86	10.9	9.4	14.0

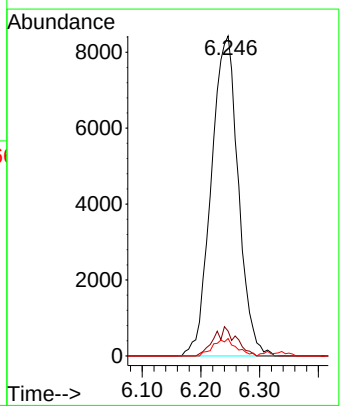


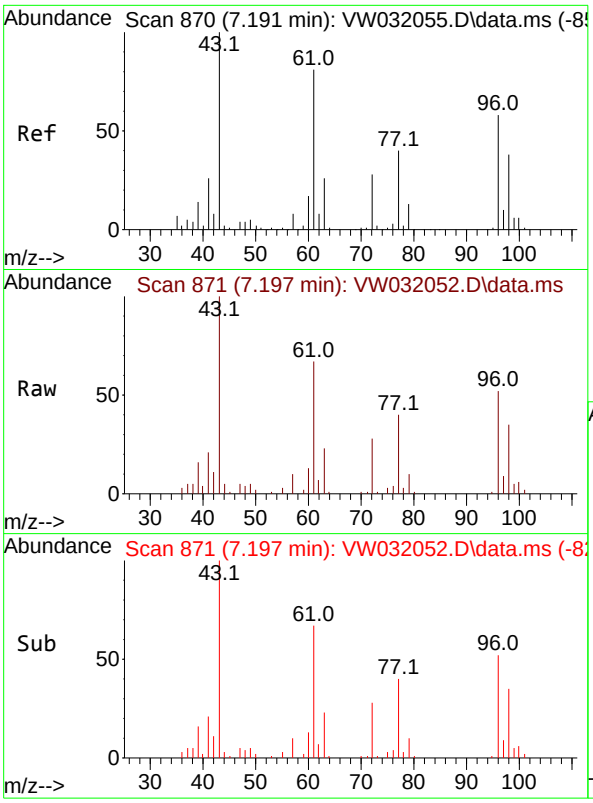


#24
1,1-Dichloroethane
Concen: 5.018 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



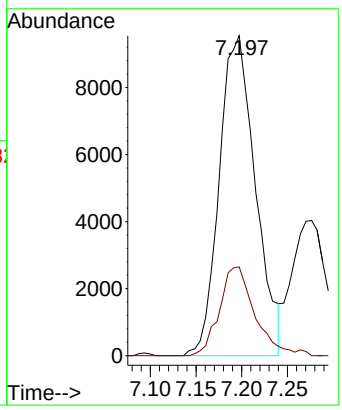


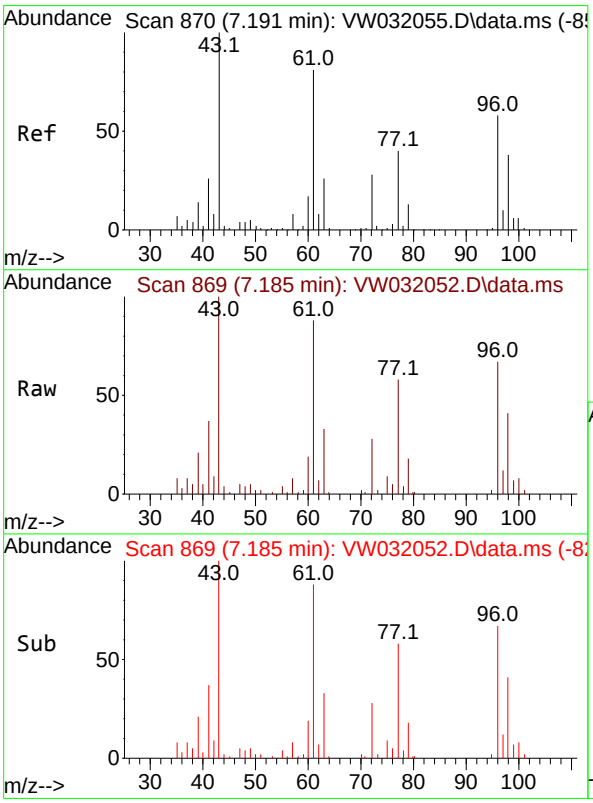
#25
2-Butanone
Concen: 24.484 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 26284

Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.3	33.5

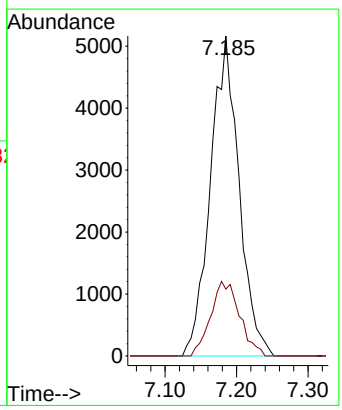


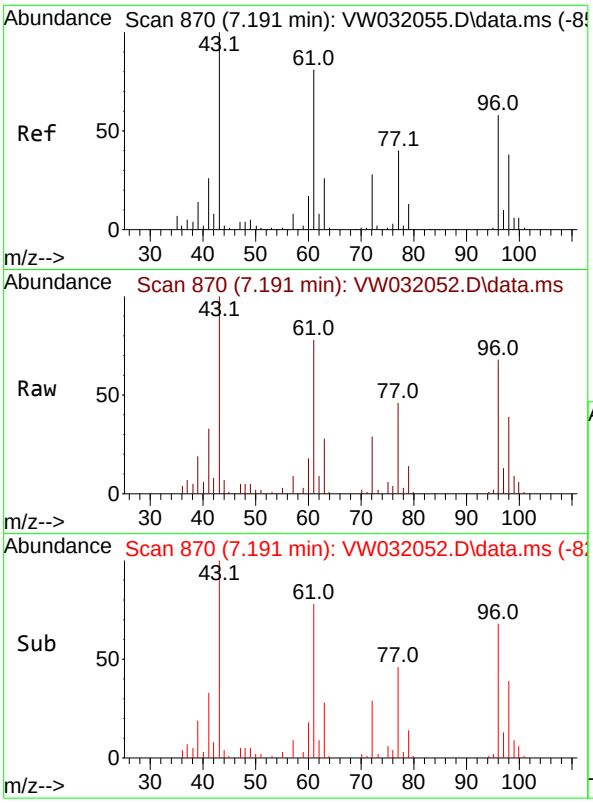


#26
2,2-Dichloropropane
Concen: 5.326 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 77 Resp: 14330

Ion	Ratio	Lower	Upper
77	100		
97	23.6	12.3	36.9



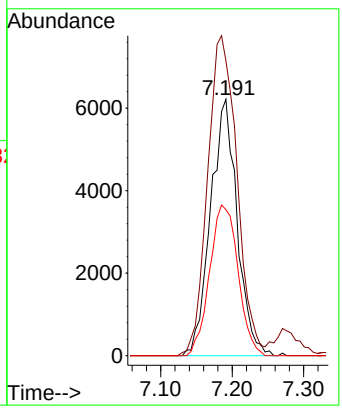


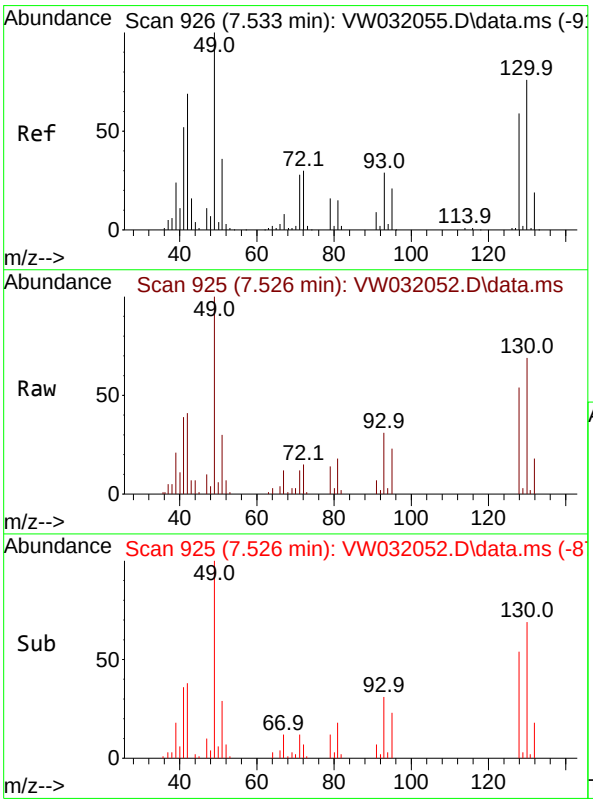
#27
cis-1,2-Dichloroethene
Concen: 4.727 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

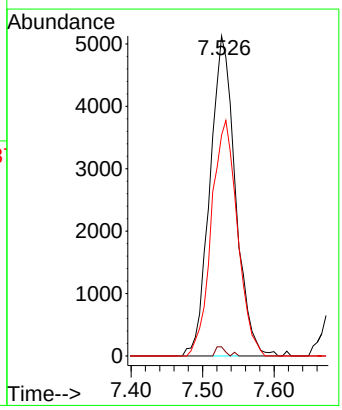


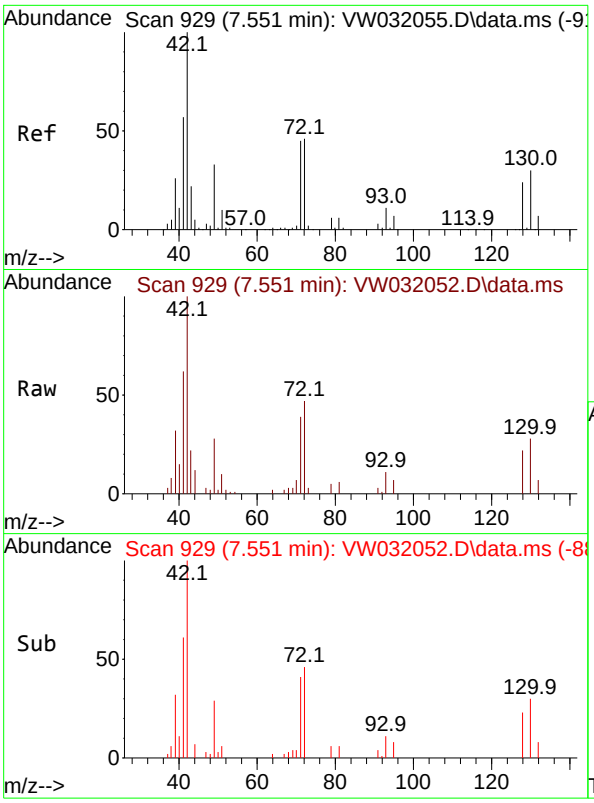


#28
Bromochloromethane
Concen: 5.188 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



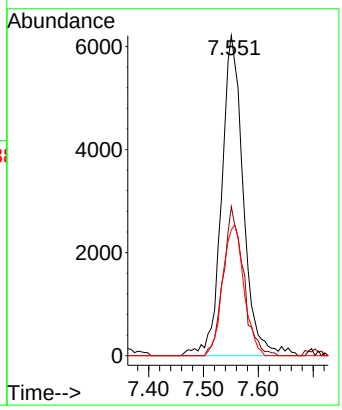


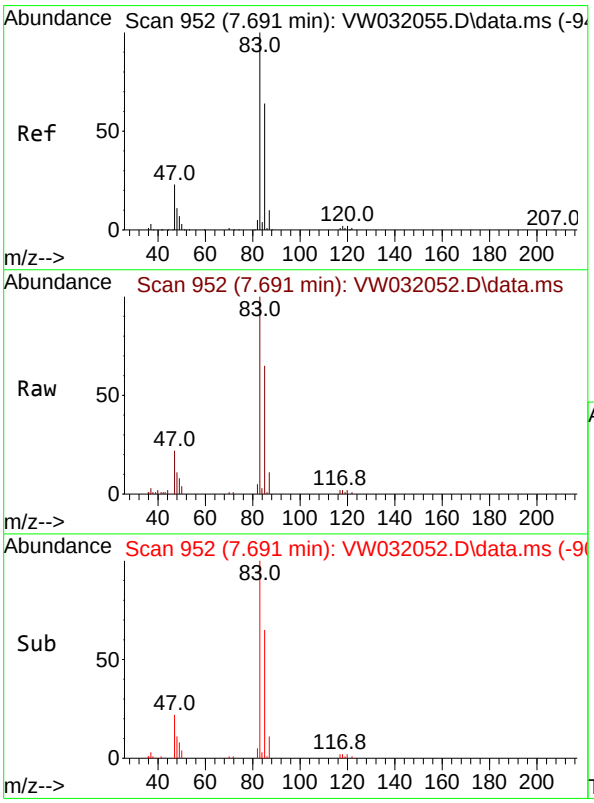
#29
Tetrahydrofuran
Concen: 23.963 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

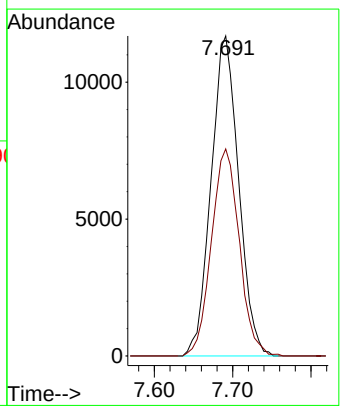


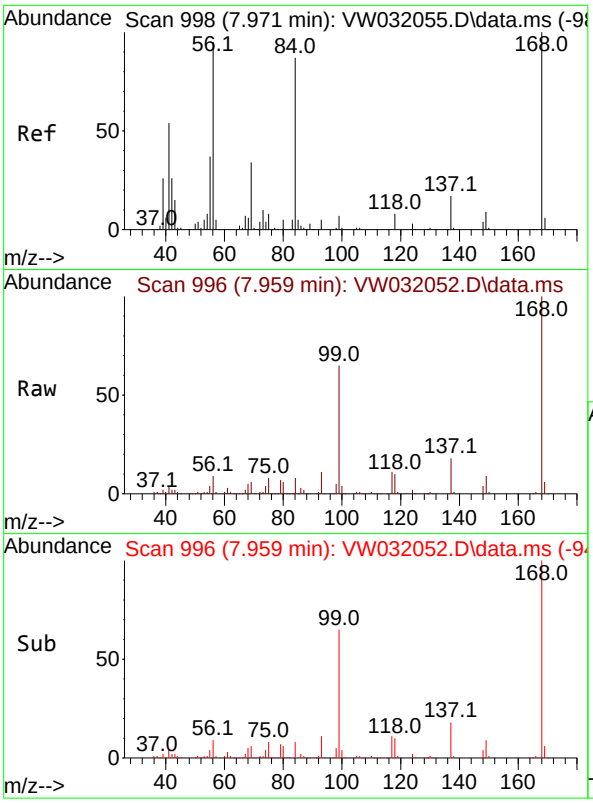


#30
Chloroform
Concen: 5.028 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 28586

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.0	76.4



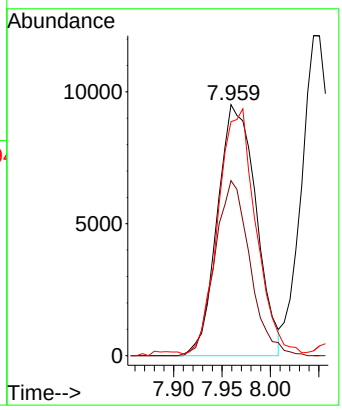


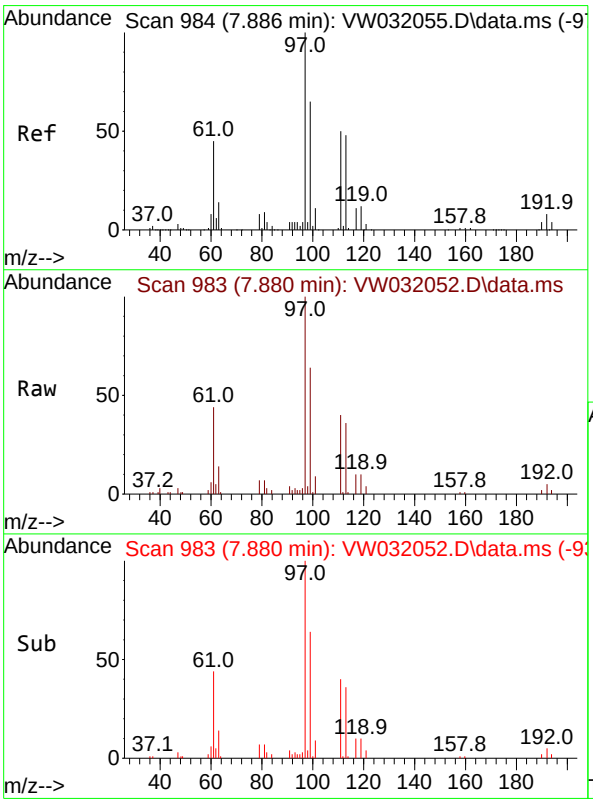
#31
Cyclohexane
Concen: 5.677 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

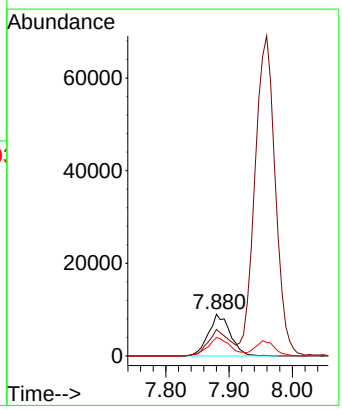


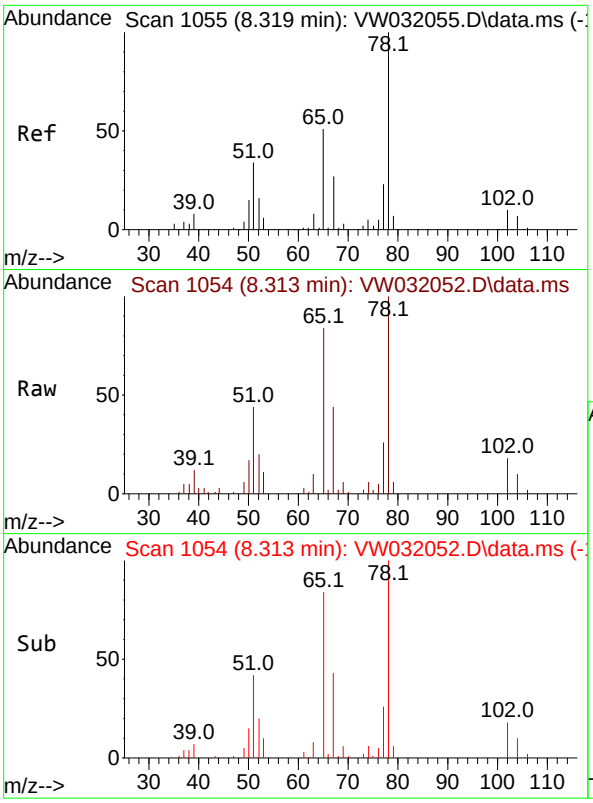


#32
1,1,1-Trichloroethane
Concen: 5.246 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



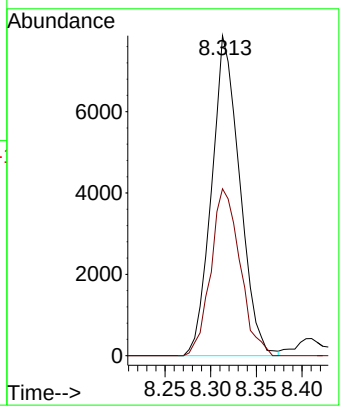


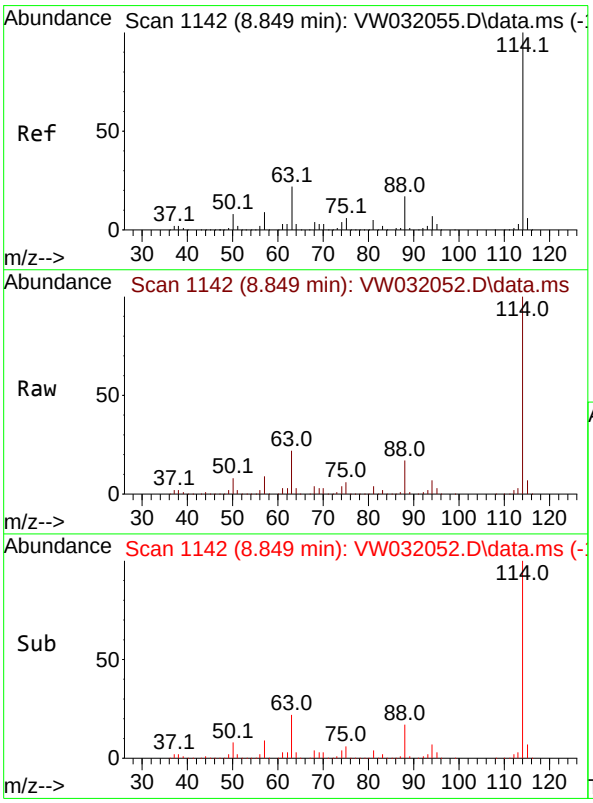
#33
1,2-Dichloroethane-d4
Concen: 5.158 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 16827

Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	102.4

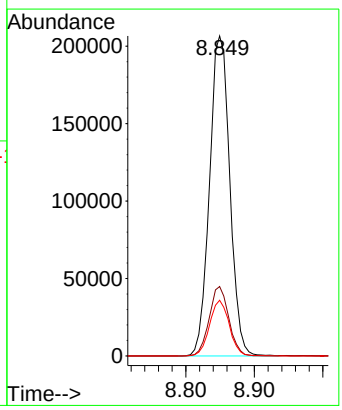


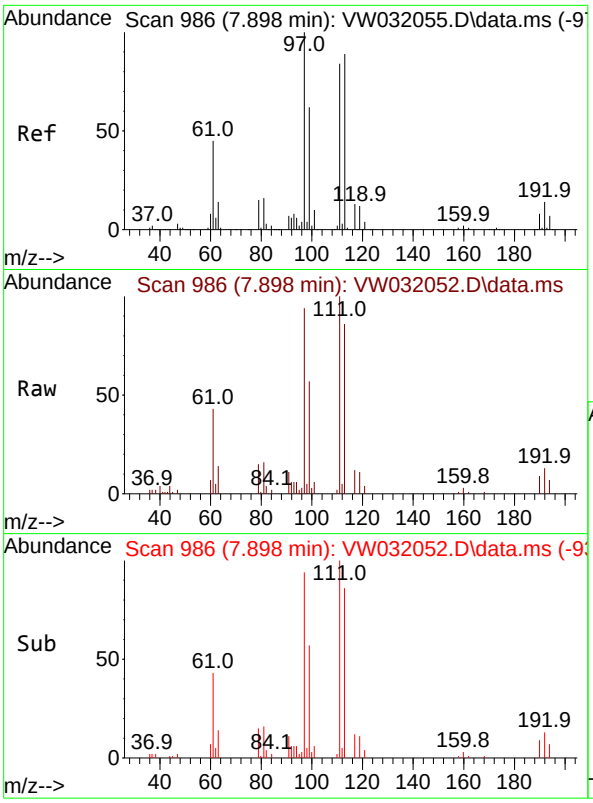


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



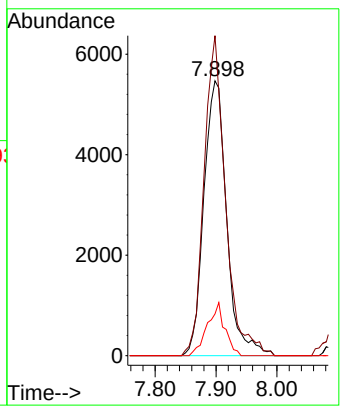


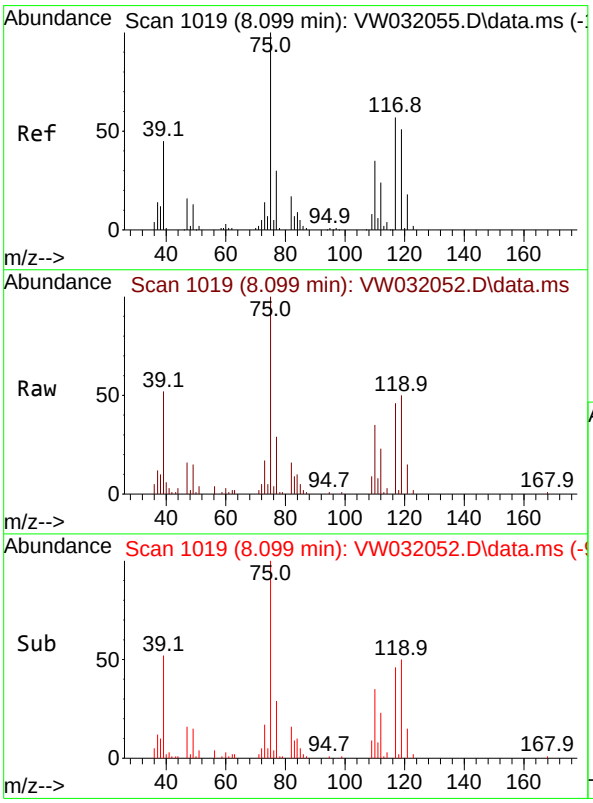
#35
Dibromofluoromethane
Concen: 5.205 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

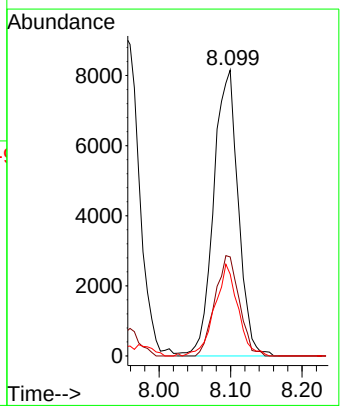


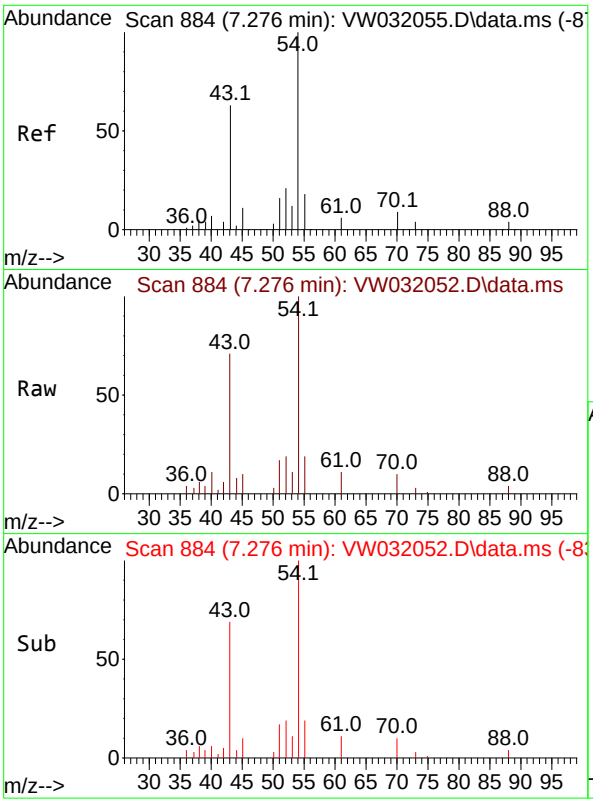


#36
1,1-Dichloropropene
Concen: 5.034 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



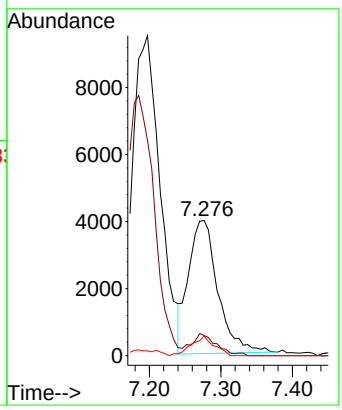


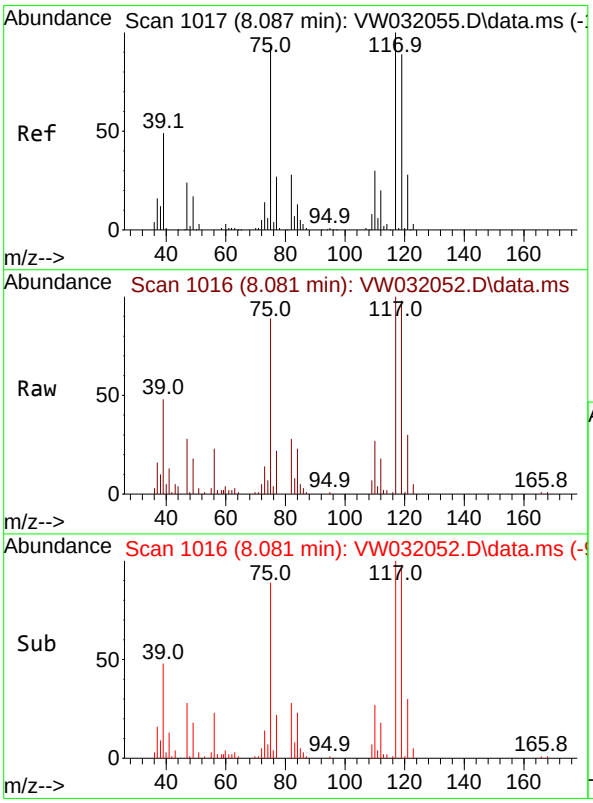
#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

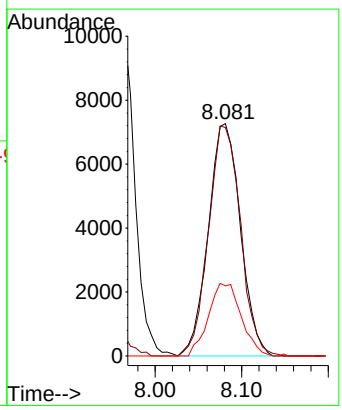


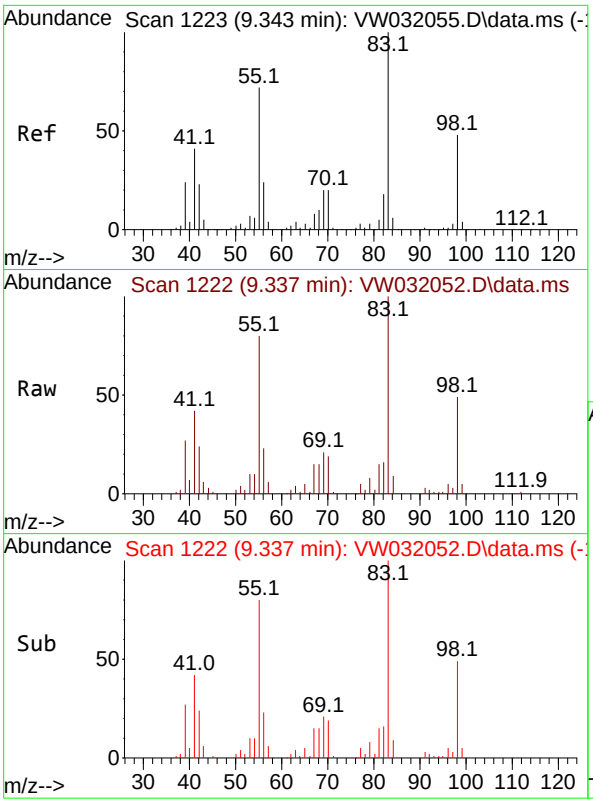


#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



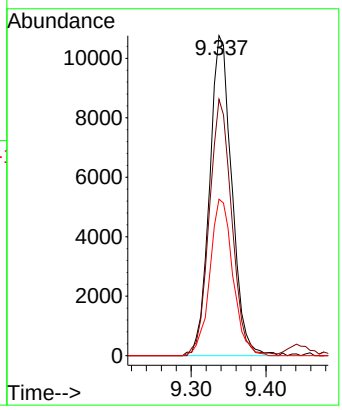


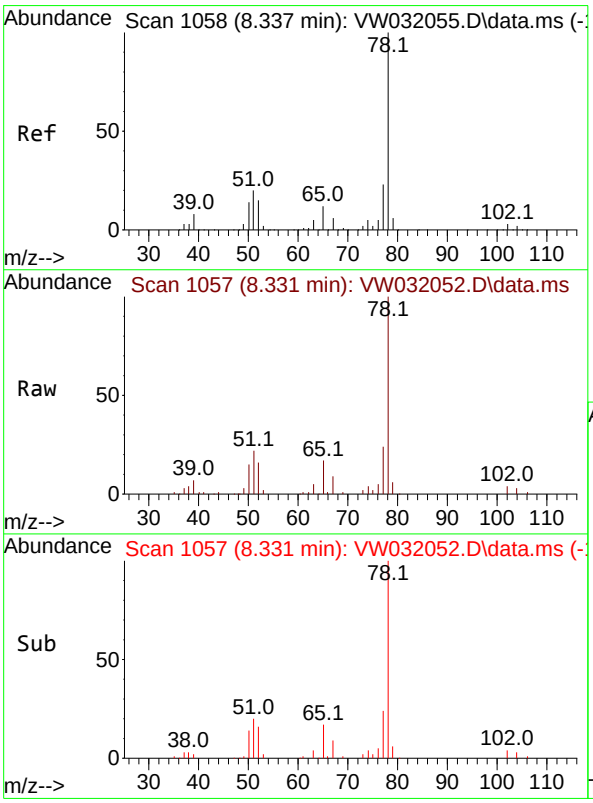
#39
Methylcyclohexane
Concen: 4.728 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

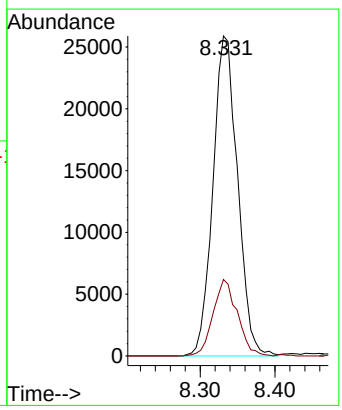


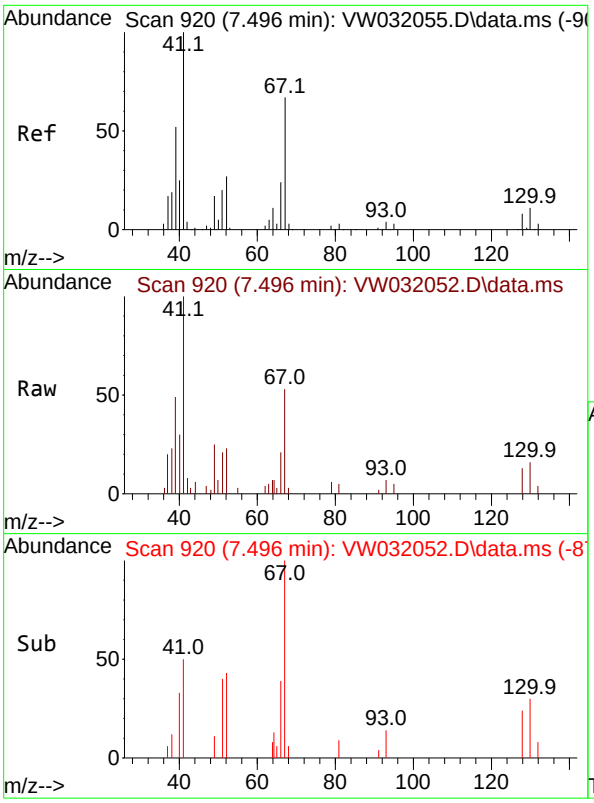


#40
Benzene
Concen: 4.941 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 78 Resp: 59395

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.4	27.6



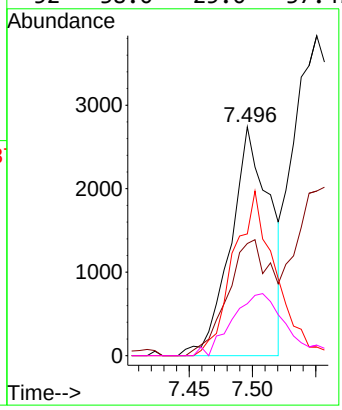


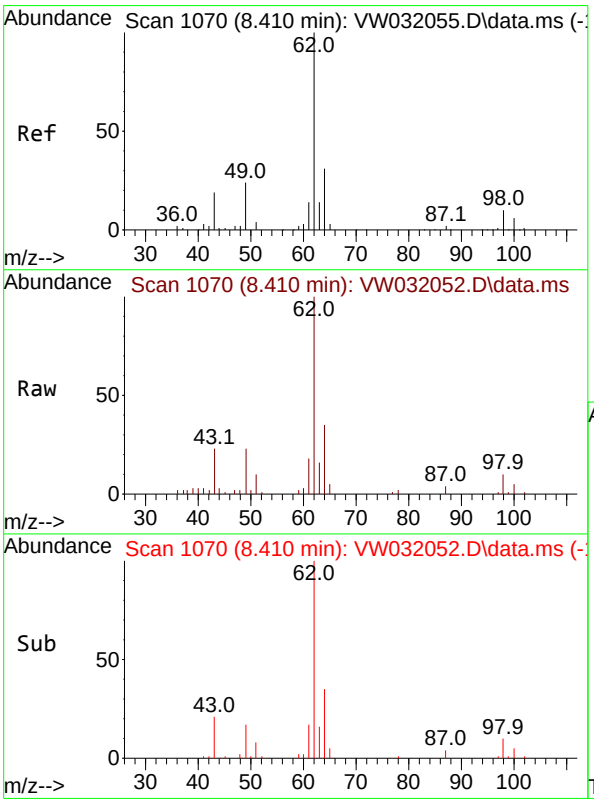
#41
Methacrylonitrile
Concen: 4.576 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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#

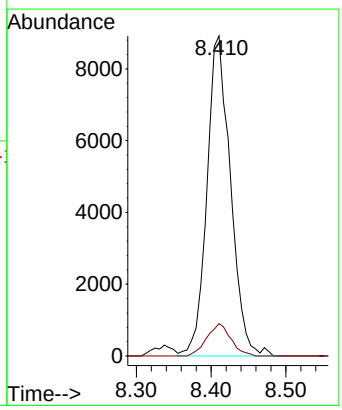


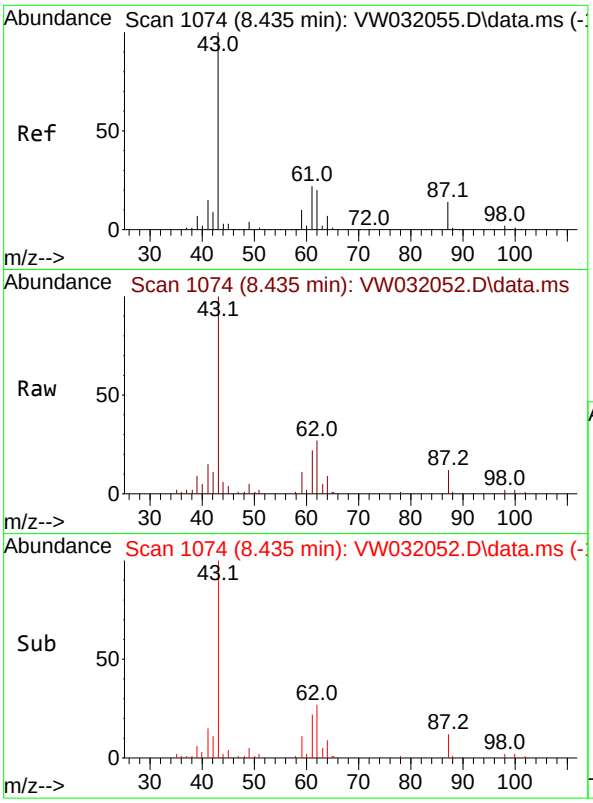


#42
1,2-Dichloroethane
Concen: 5.085 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 19560

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	19.8



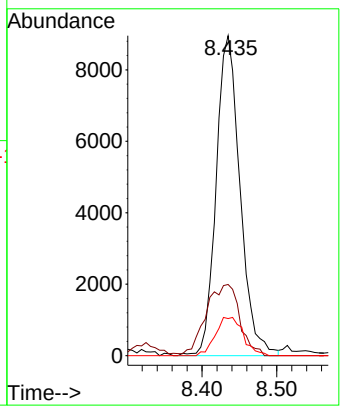


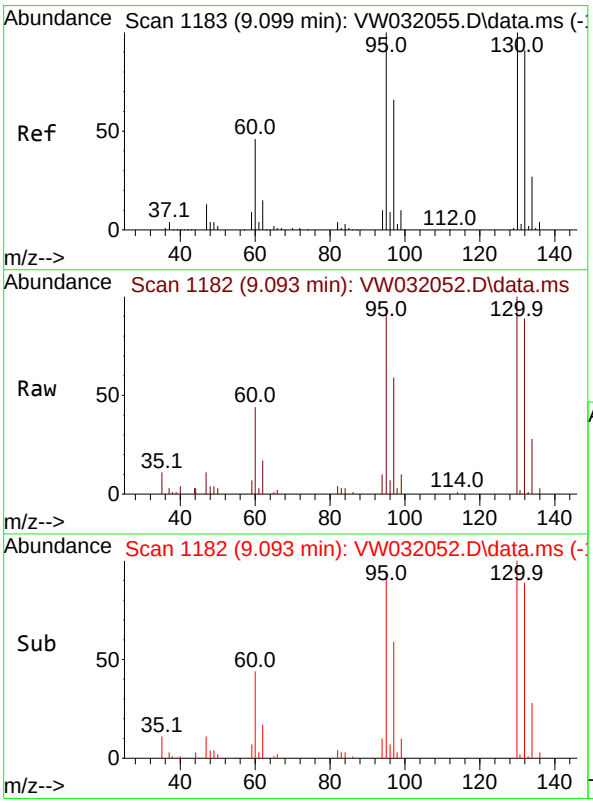
#43
Isopropyl Acetate
Concen: 4.756 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

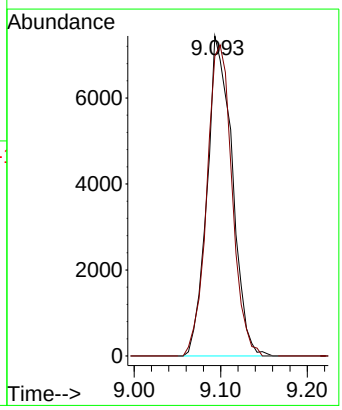


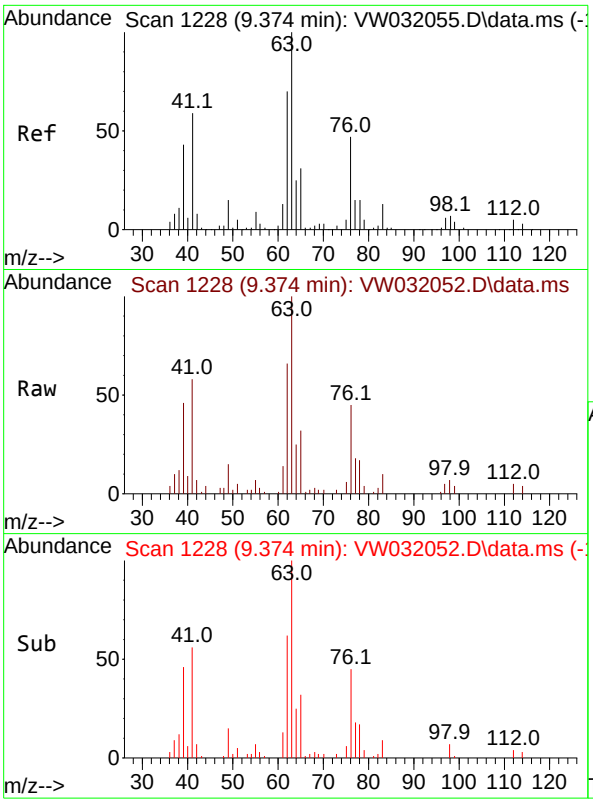


#44
Trichloroethene
Concen: 5.240 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:130 Resp: 14999

Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	200.6



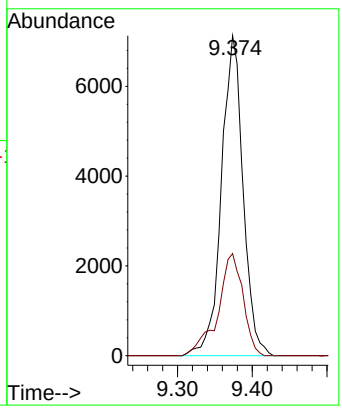


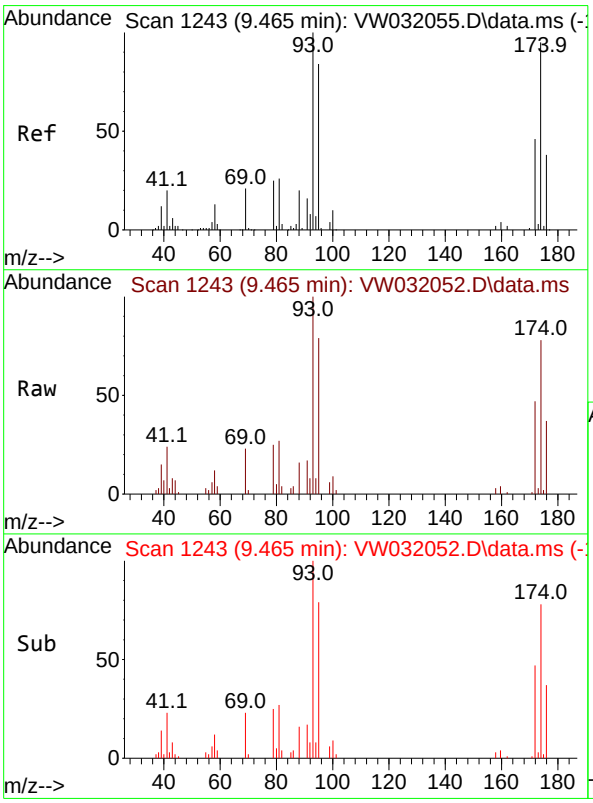
#45
1,2-Dichloropropane
Concen: 4.954 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 14387

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8

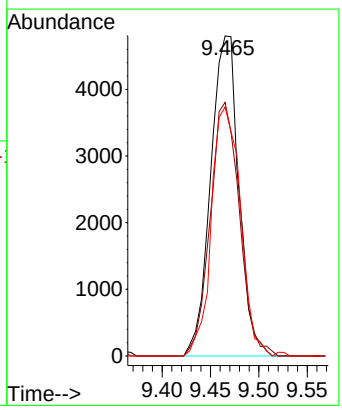


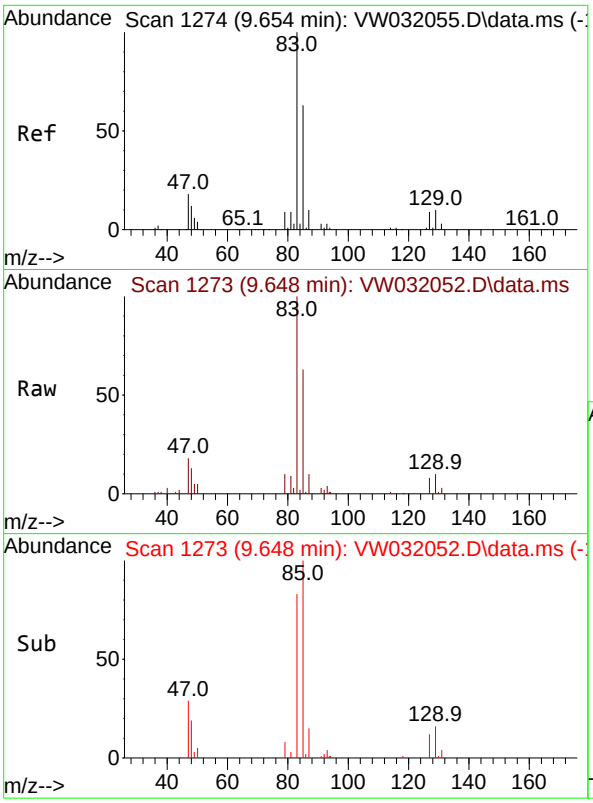


#46
Dibromomethane
Concen: 5.204 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



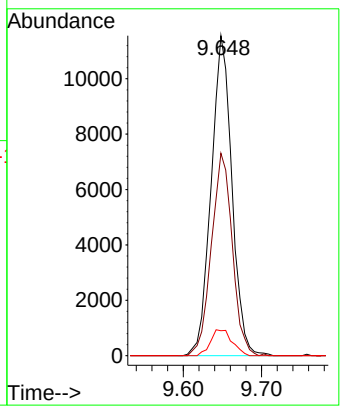


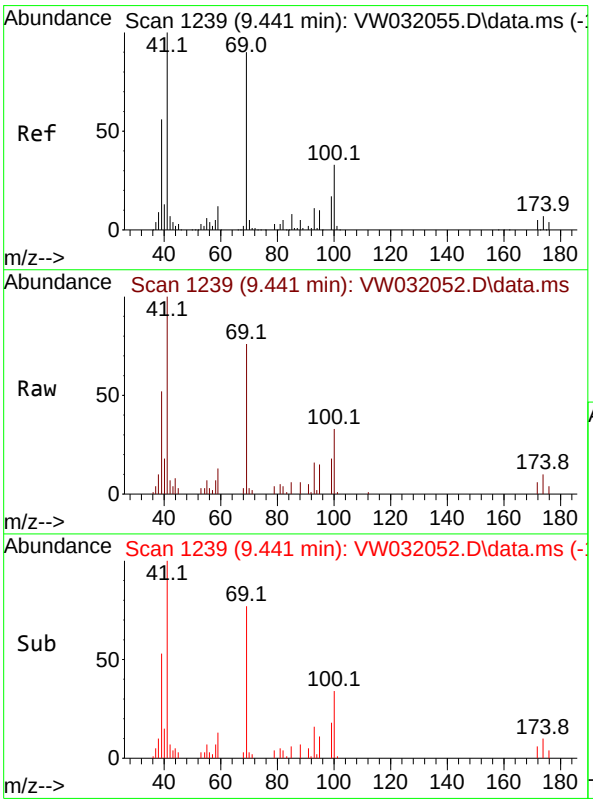
#47
Bromodichloromethane
Concen: 4.927 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

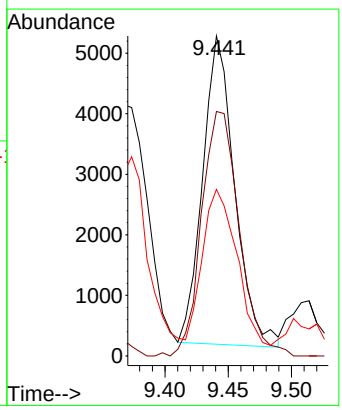


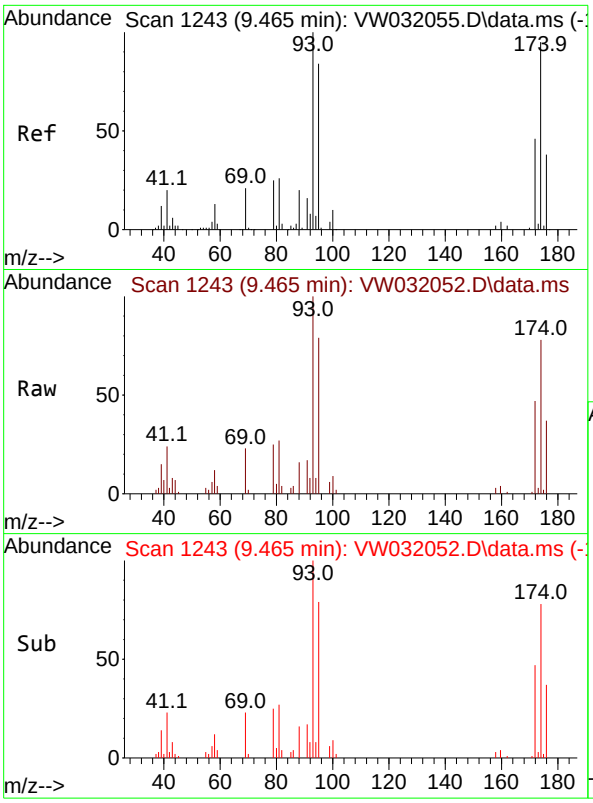


#48
Methyl methacrylate
Concen: 4.424 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



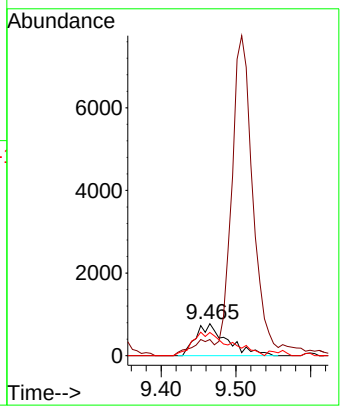


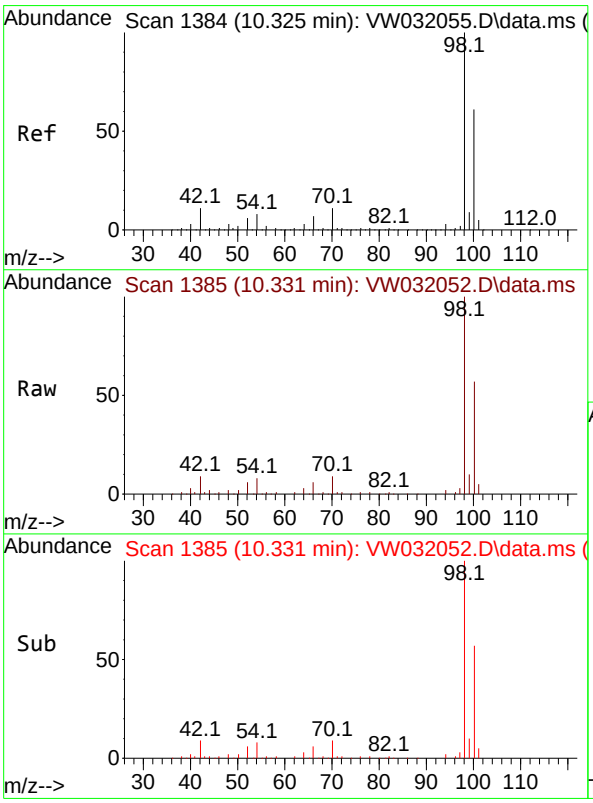
#49
1,4-Dioxane
Concen: 93.217 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

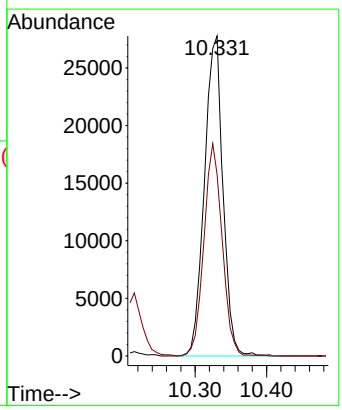


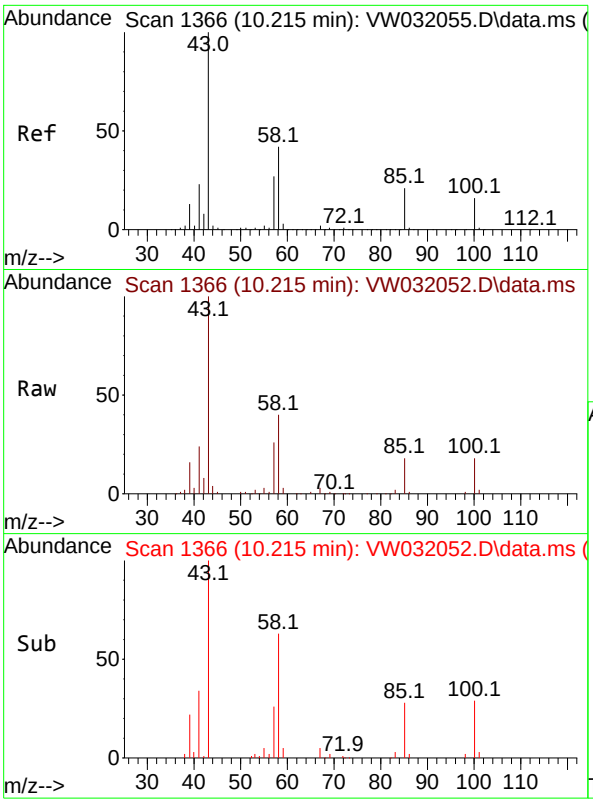


#50
Toluene-d8
Concen: 4.916 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 98 Resp: 49876

Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.1	76.7



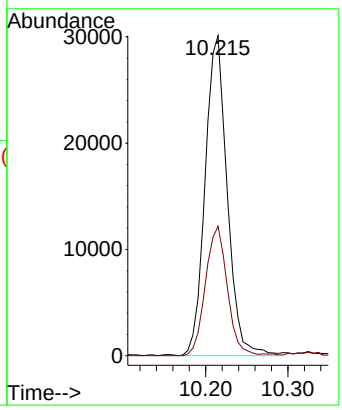


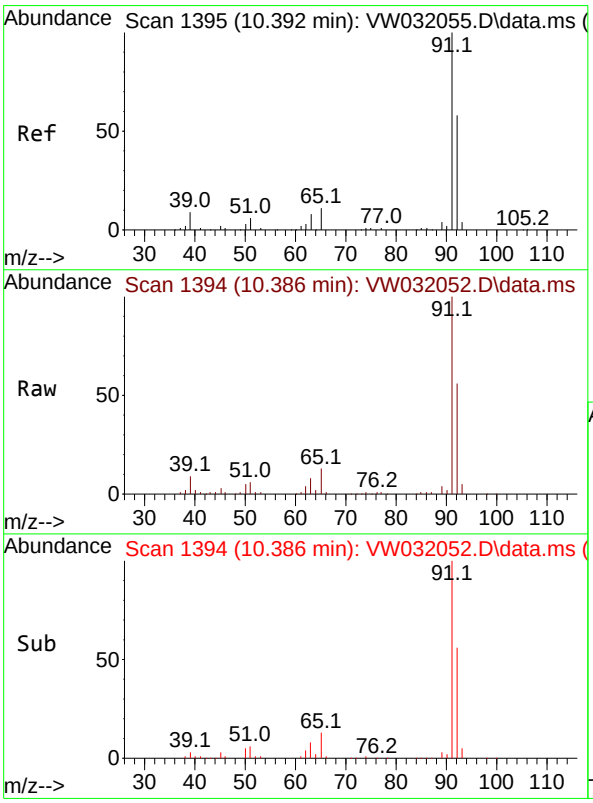
#51
4-Methyl-2-Pentanone
Concen: 23.755 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 56184

Ion	Ratio	Lower	Upper
43	100		
58	40.2	33.1	49.7

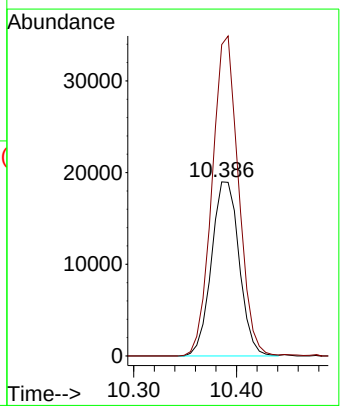


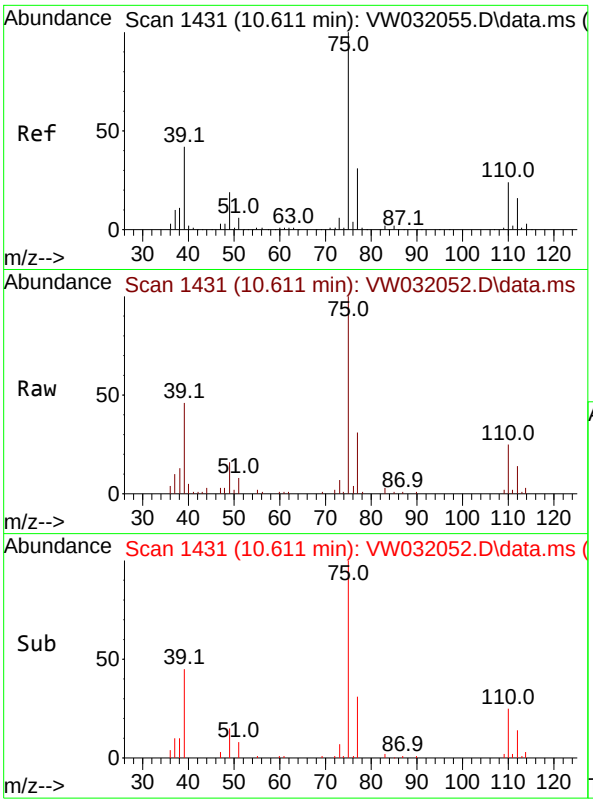


#52
Toluene
Concen: 4.692 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 92 Resp: 35525

Ion	Ratio	Lower	Upper
92	100		
91	175.5	136.3	204.5



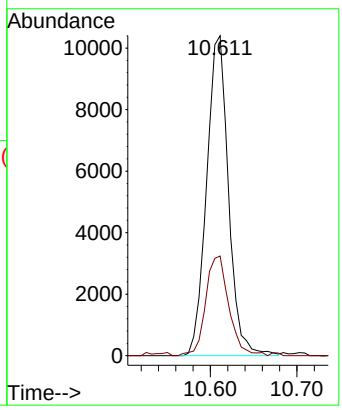


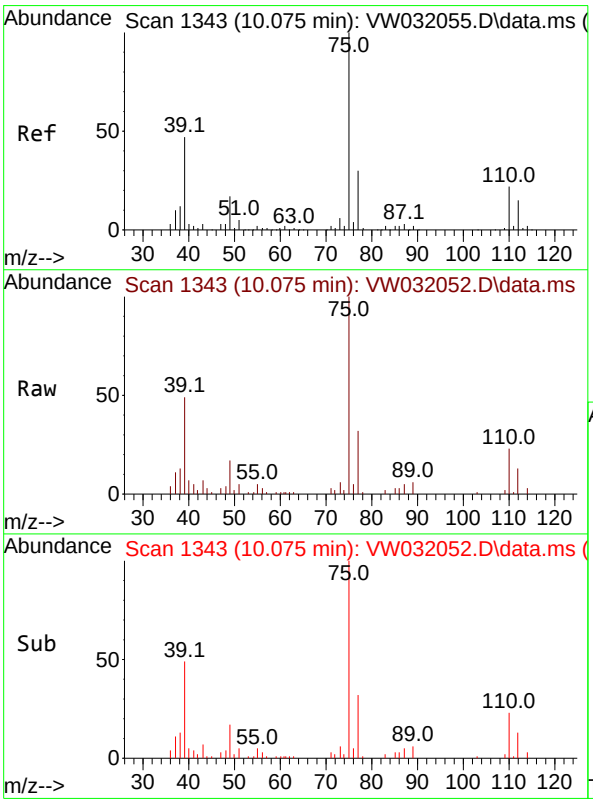
#53
t-1,3-Dichloropropene
Concen: 4.513 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 18259

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.6

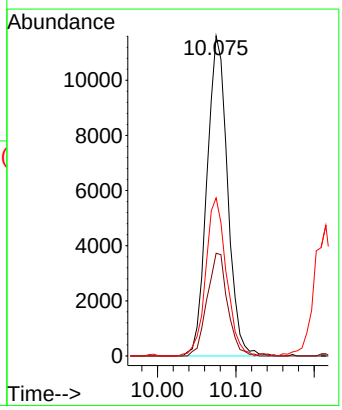


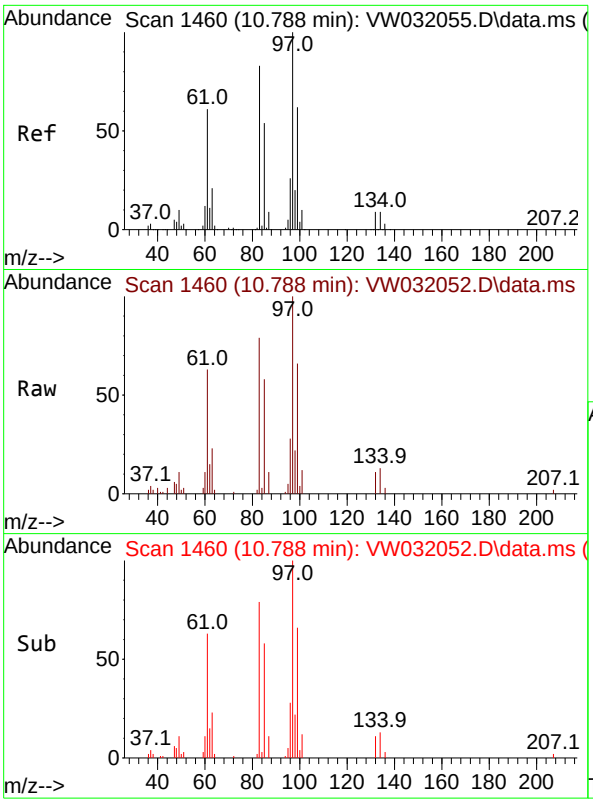


#54
cis-1,3-Dichloropropene
Concen: 4.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



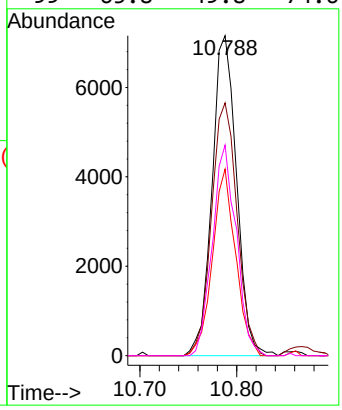


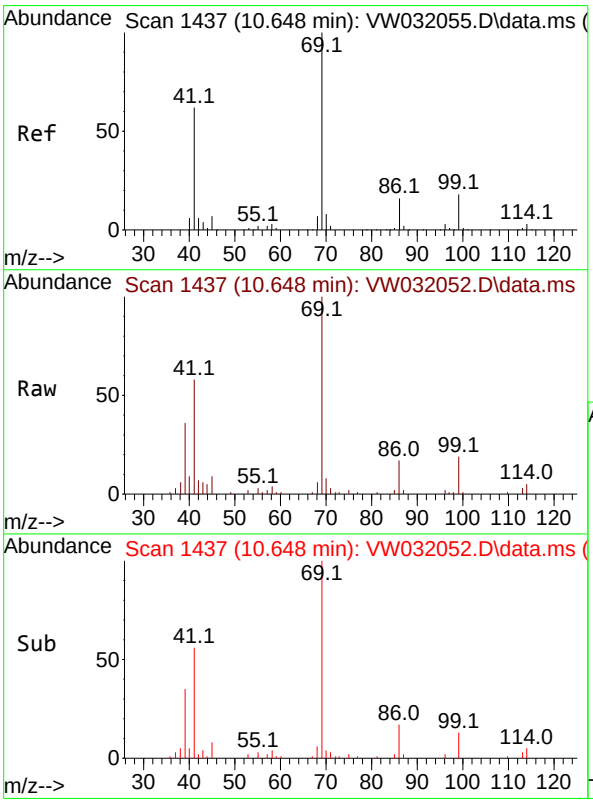
#55
1,1,2-Trichloroethane
Concen: 5.057 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

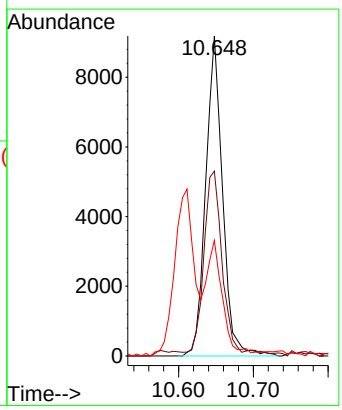


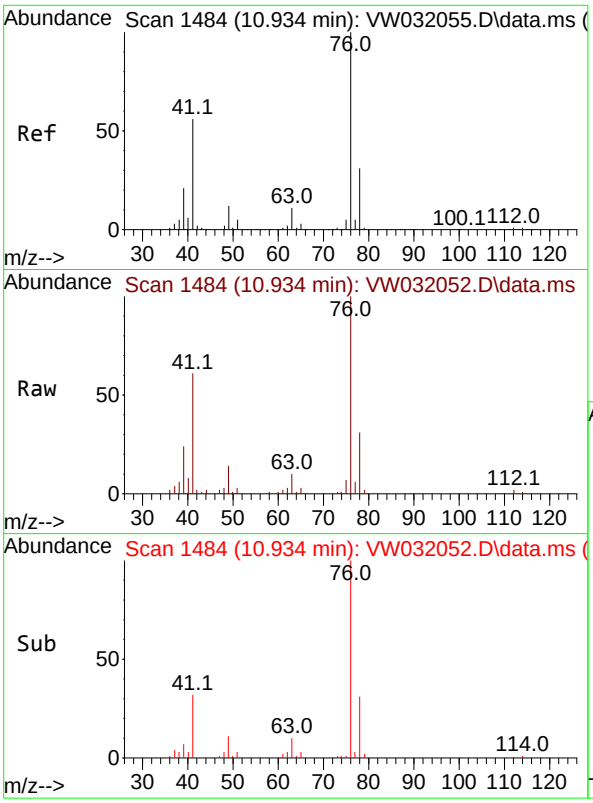


#56
Ethyl methacrylate
Concen: 4.317 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



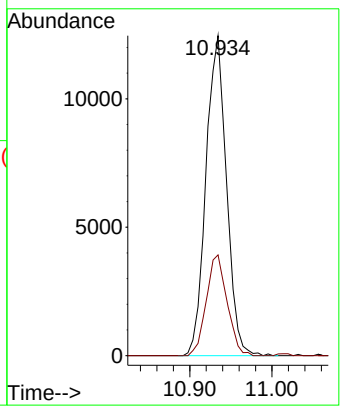


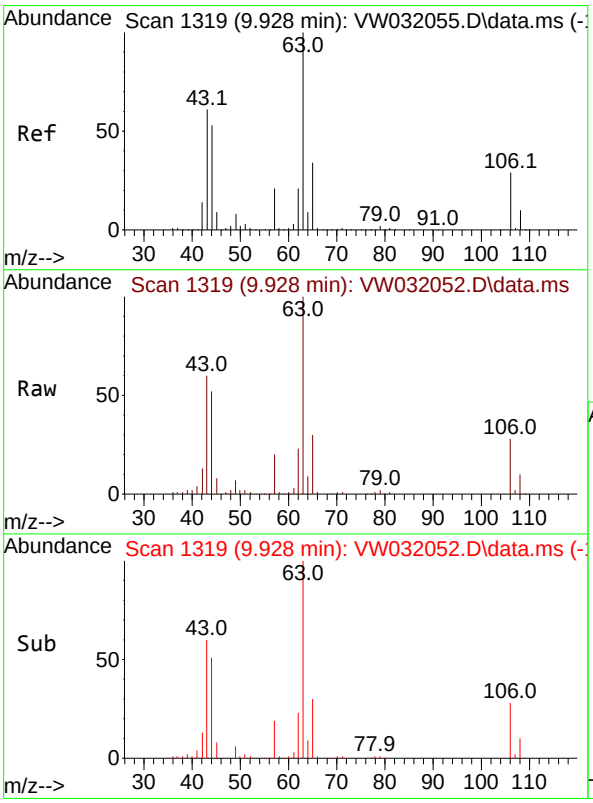
#57
1,3-Dichloropropane
Concen: 4.988 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 21654

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.8	38.6

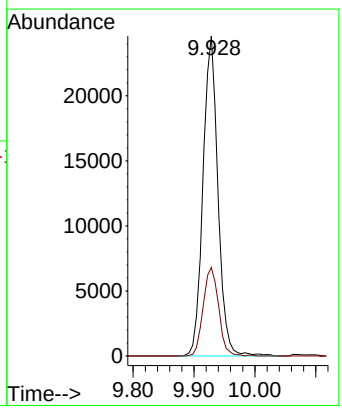


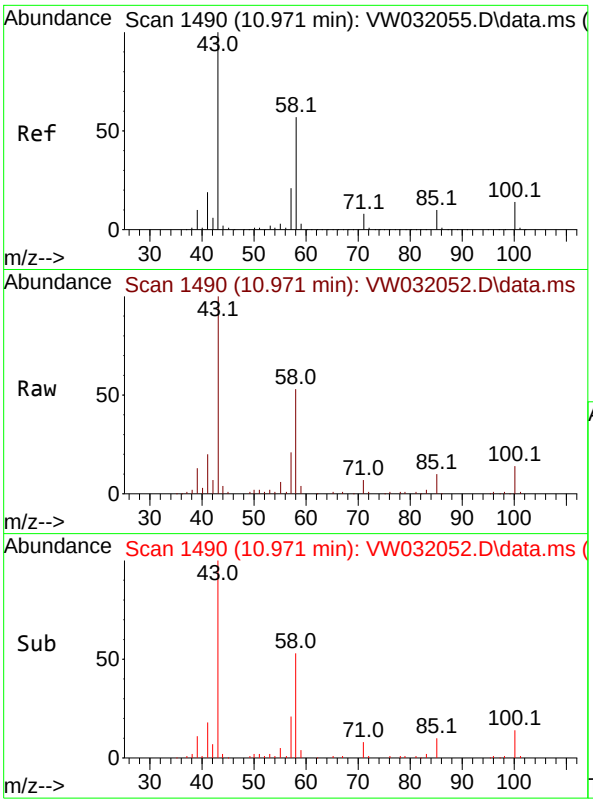


#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 41991

Ion	Ratio	Lower	Upper
63	100		
106	28.4	23.5	35.3



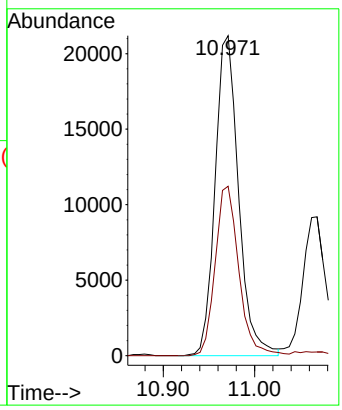


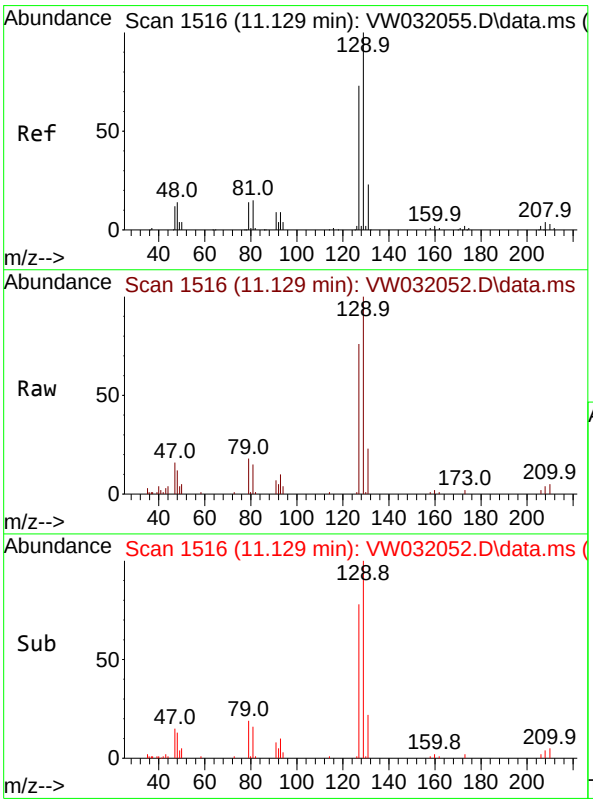
#59
2-Hexanone
Concen: 23.074 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 37796

Ion	Ratio	Lower	Upper
43	100		
58	53.3	28.3	85.0

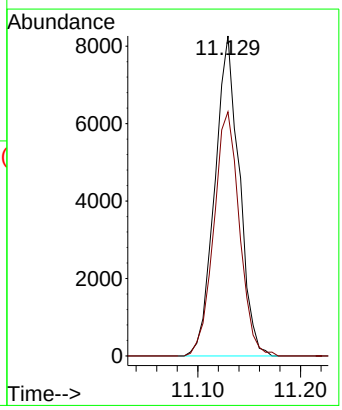


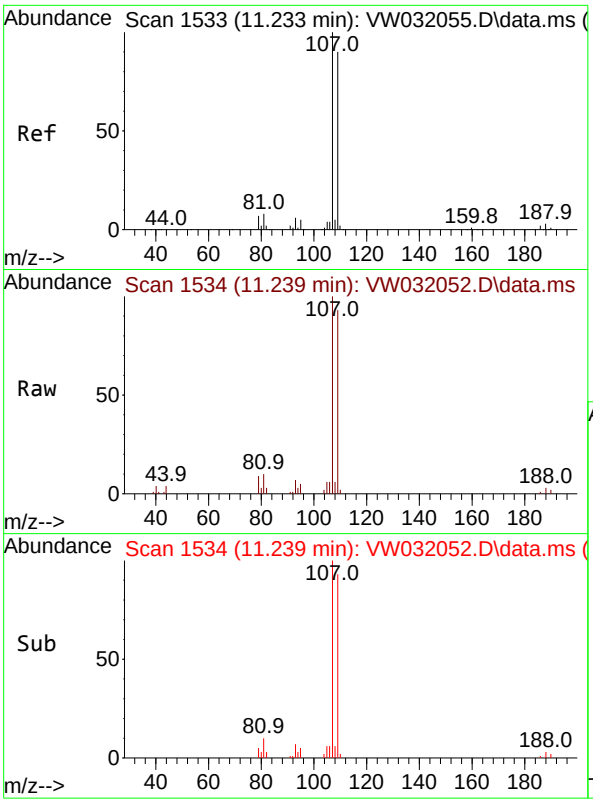


#60
Dibromochloromethane
Concen: 4.799 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:129 Resp: 13654

Ion	Ratio	Lower	Upper
129	100		
127	79.8	39.0	116.9



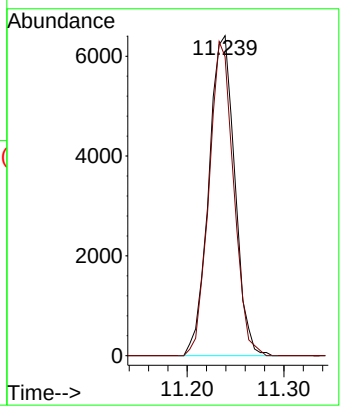


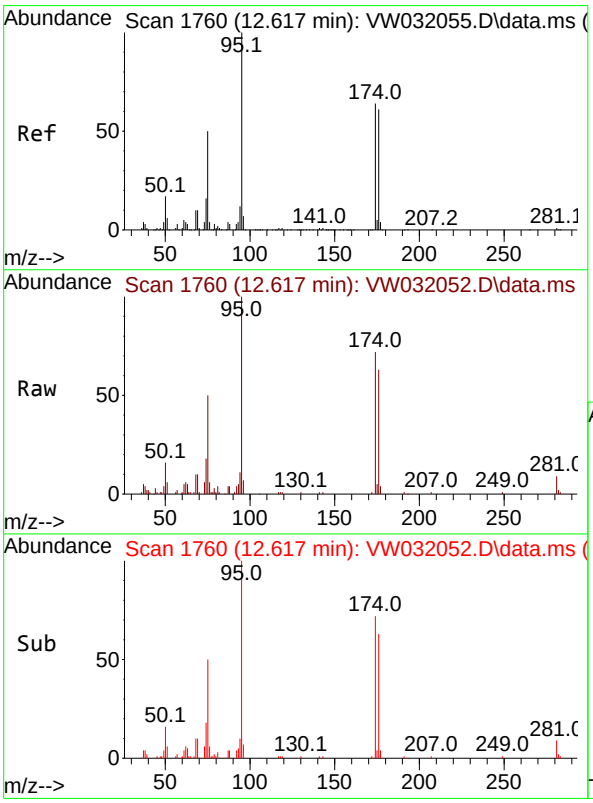
#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 11992

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.2	111.4

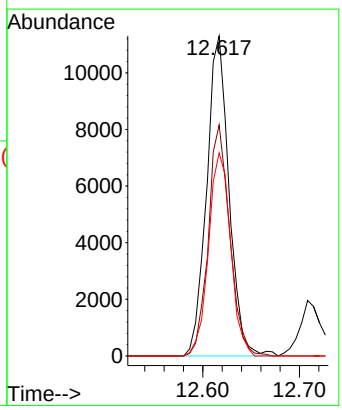


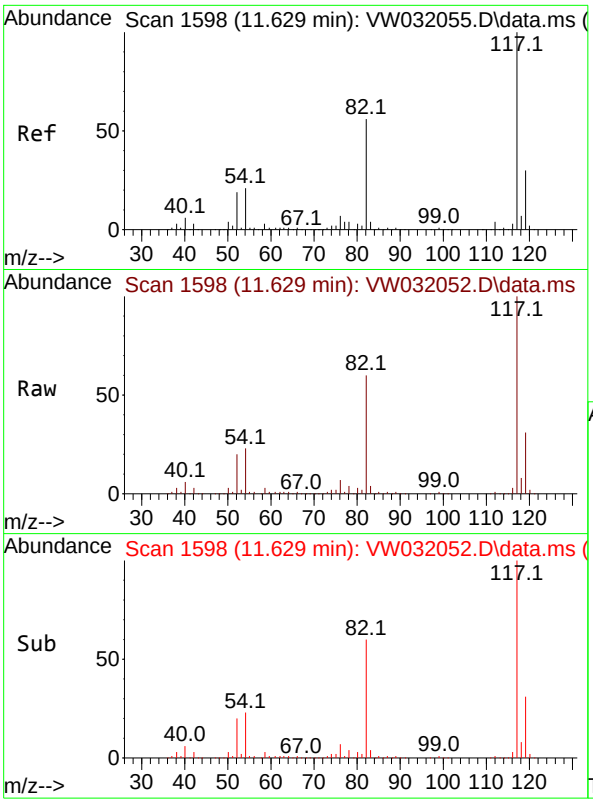


#62
4-Bromofluorobenzene
Concen: 4.863 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



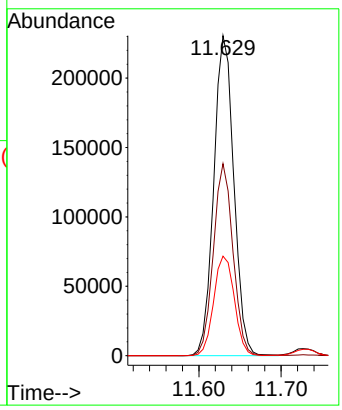


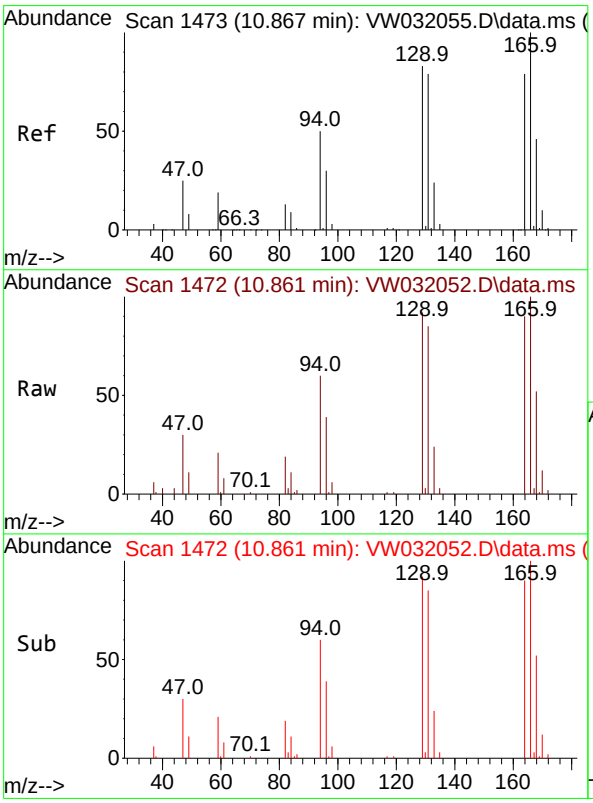
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

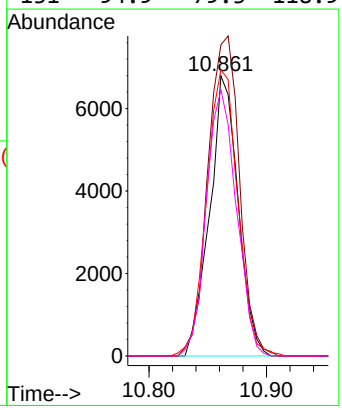


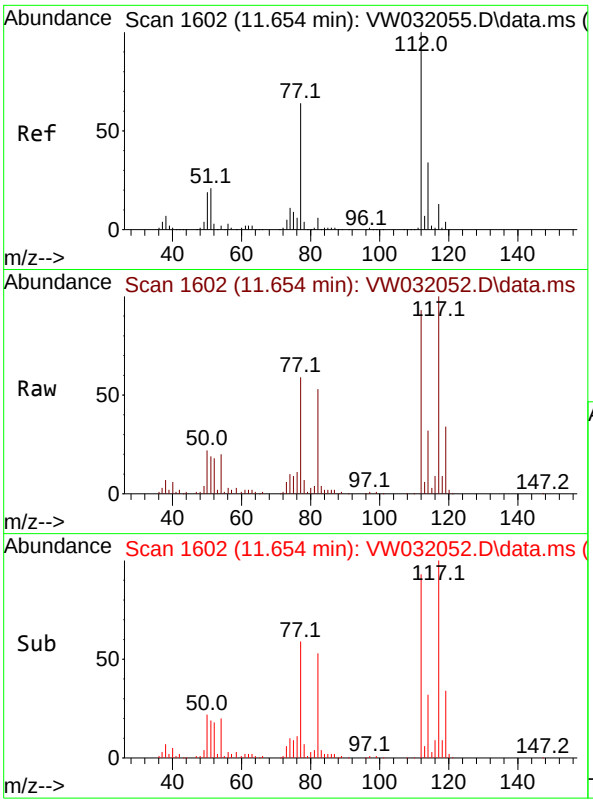


#64
Tetrachloroethene
Concen: 5.066 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



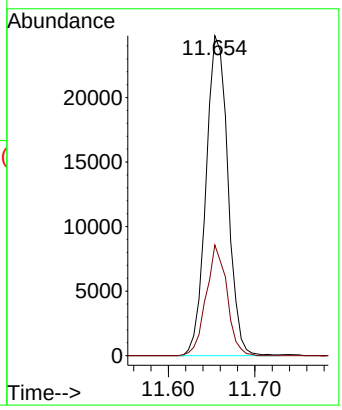


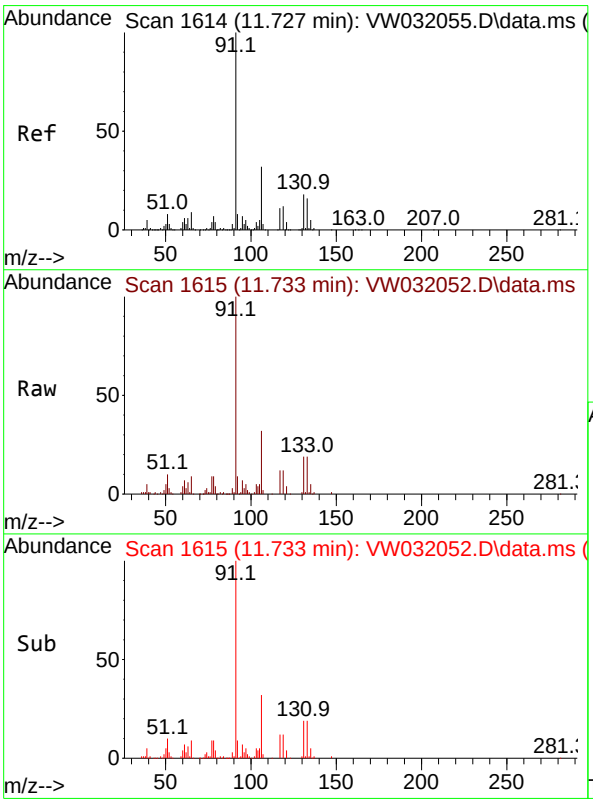
#65
Chlorobenzene
Concen: 5.110 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 43515

Ion	Ratio	Lower	Upper
112	100		
114	34.6	26.9	40.3

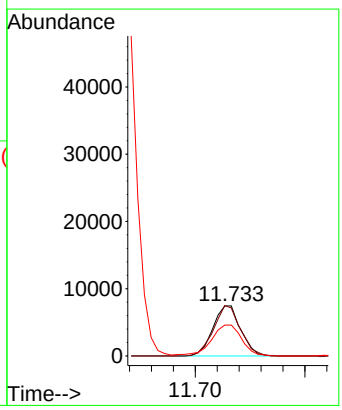


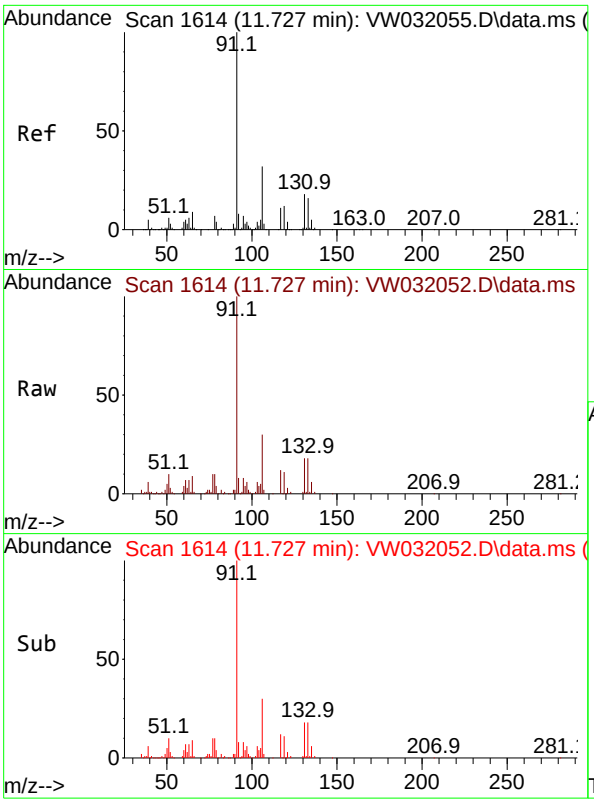


#66
1,1,1,2-Tetrachloroethane
Concen: 4.907 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



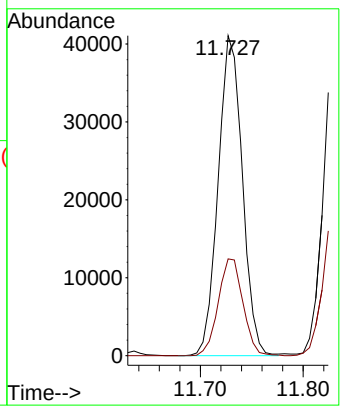


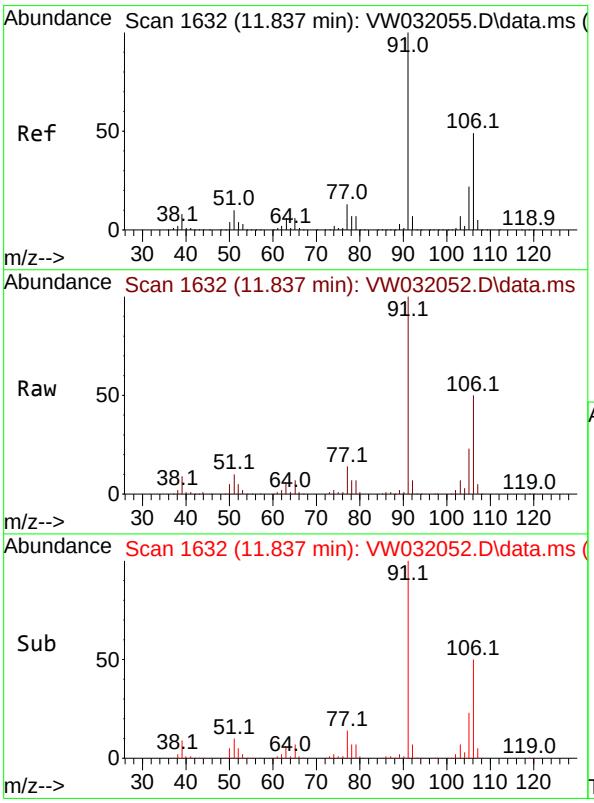
#67
Ethyl Benzene
Concen: 4.650 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 67071

Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.4	38.0

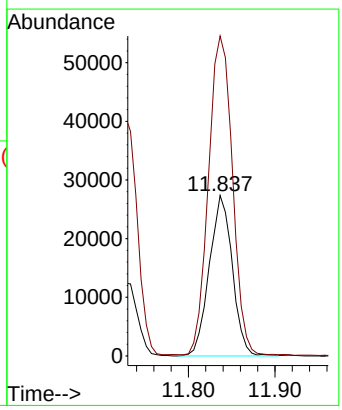


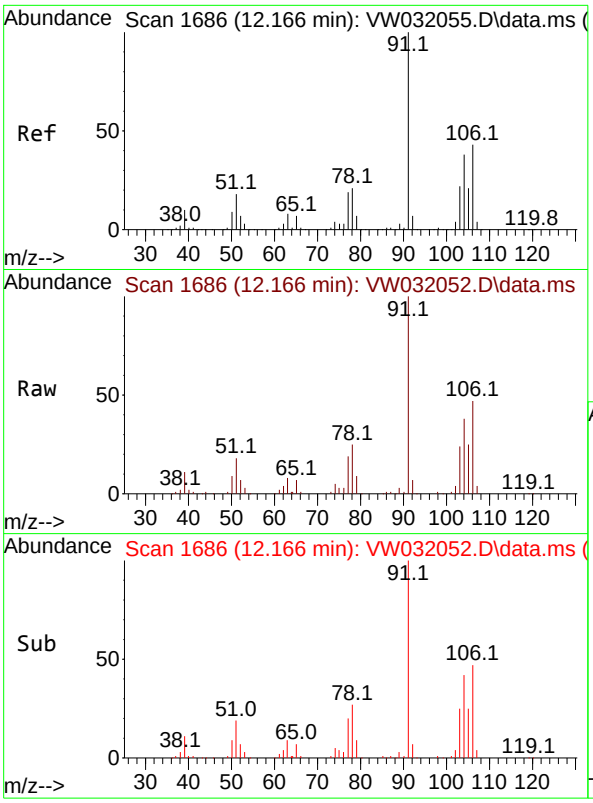


#68
m/p-Xylenes
Concen: 9.070 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 50482

Ion	Ratio	Lower	Upper
106	100		
91	209.1	162.2	243.2



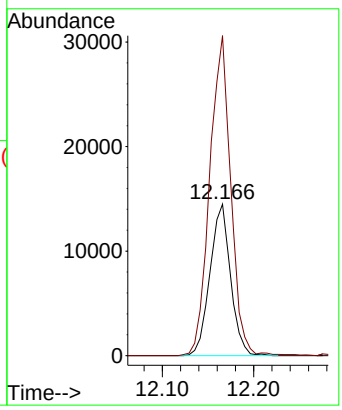


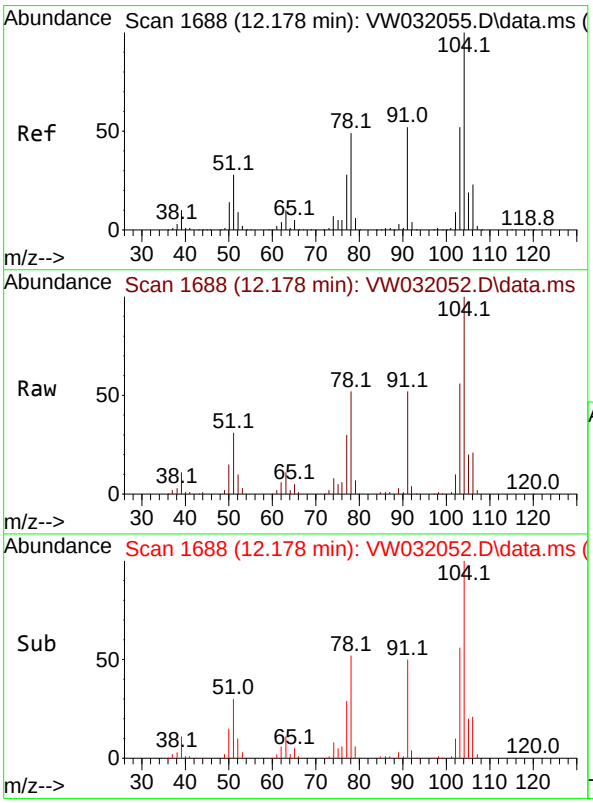
#69
o-Xylene
Concen: 4.393 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 22602

Ion	Ratio	Lower	Upper
106	100		
91	217.4	110.8	332.3

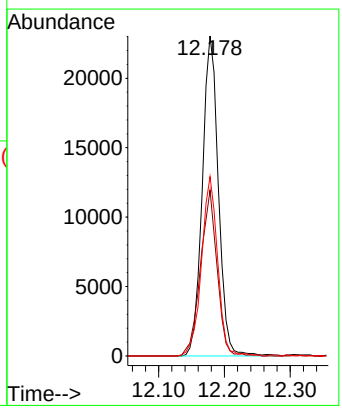


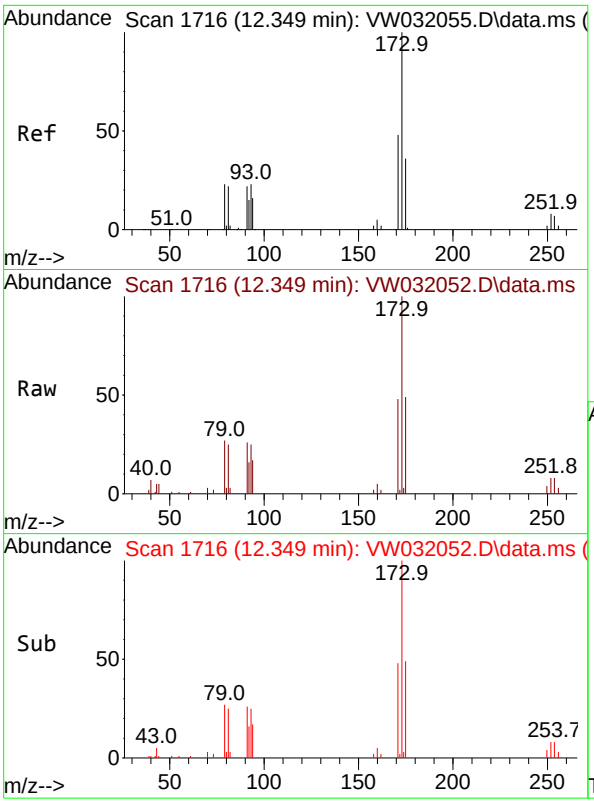


#70
Styrene
Concen: 4.300 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



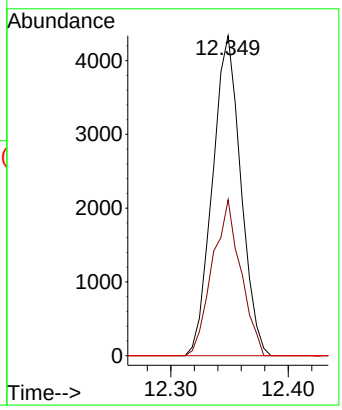


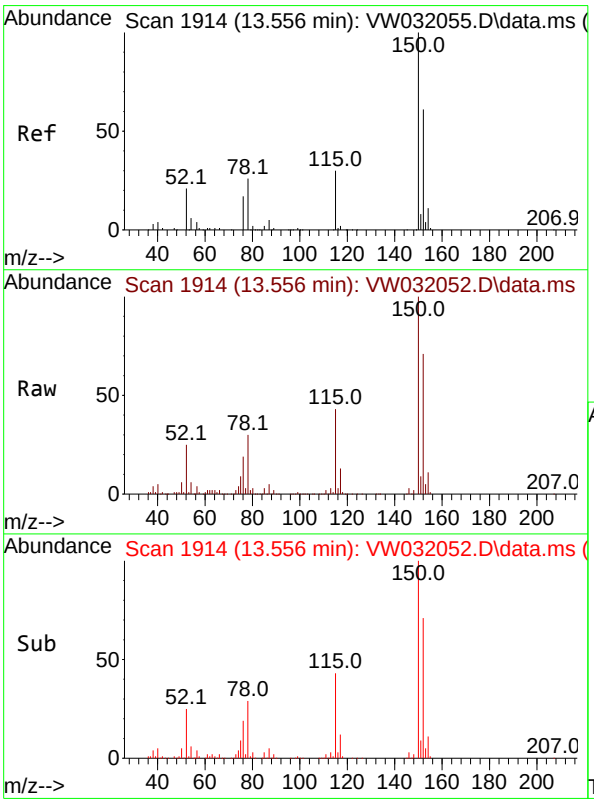
#71
Bromoform
Concen: 4.792 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

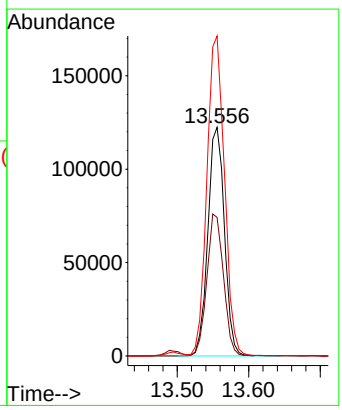


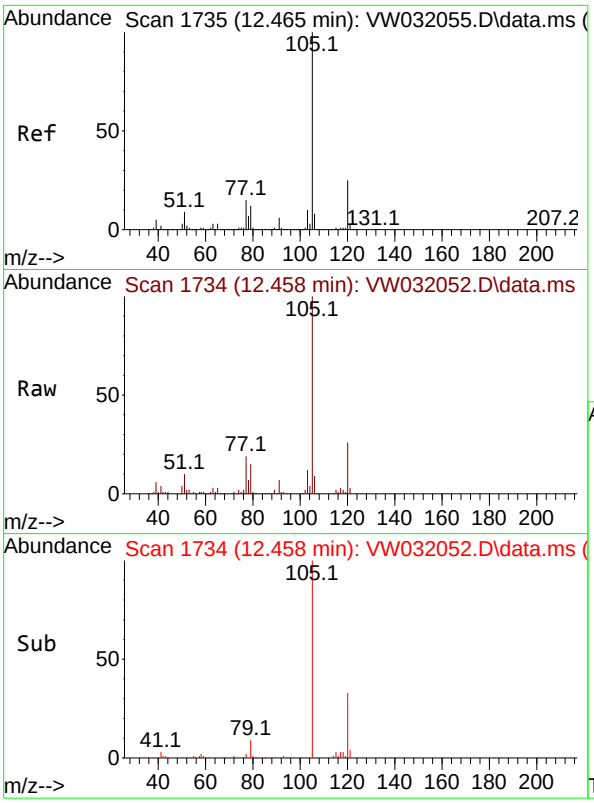


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



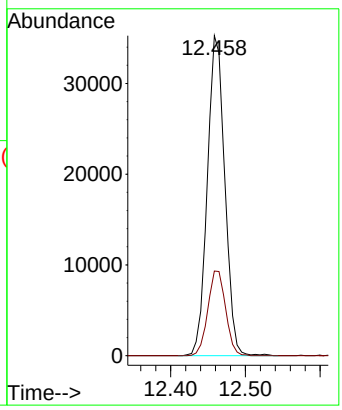


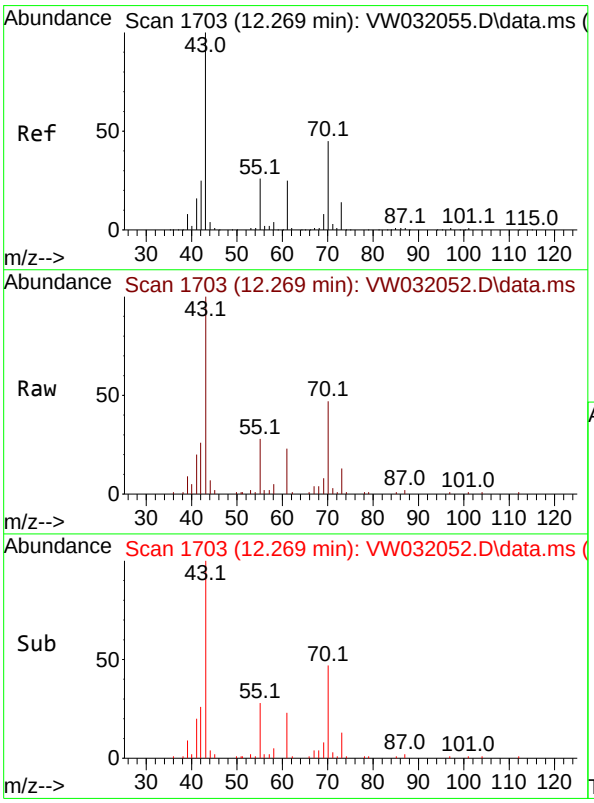
#73
Isopropylbenzene
Concen: 4.164 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 57306

Ion	Ratio	Lower	Upper
105	100		
120	26.8	12.8	38.4

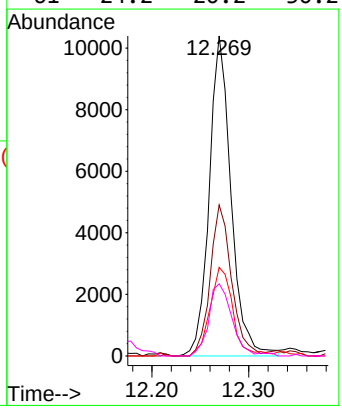


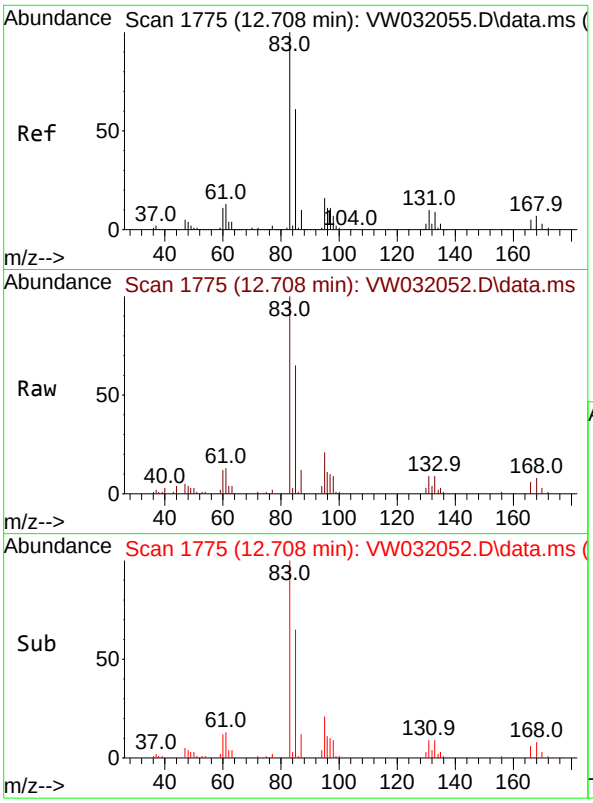


#74
N-amyl acetate
Concen: 4.135 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



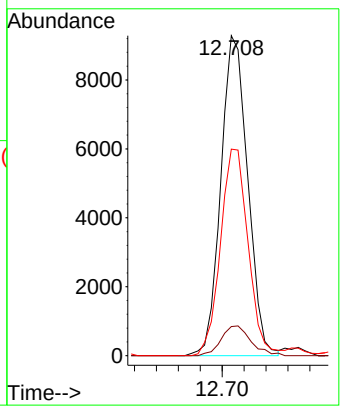


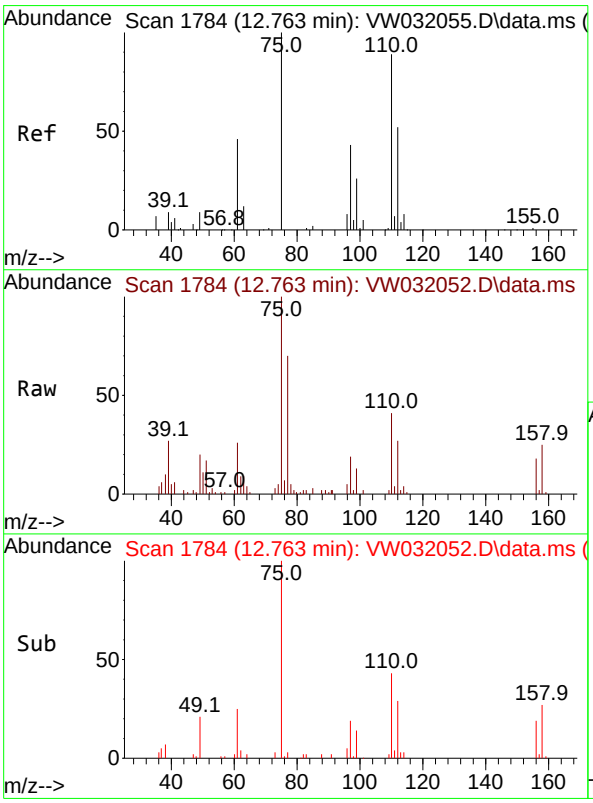
#75
1,1,2,2-Tetrachloroethane
Concen: 4.836 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

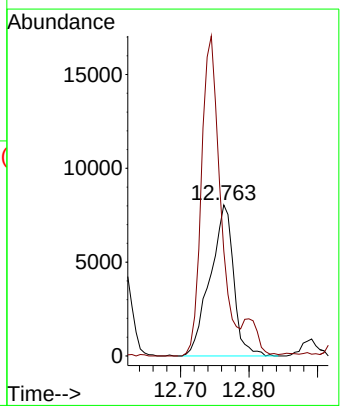


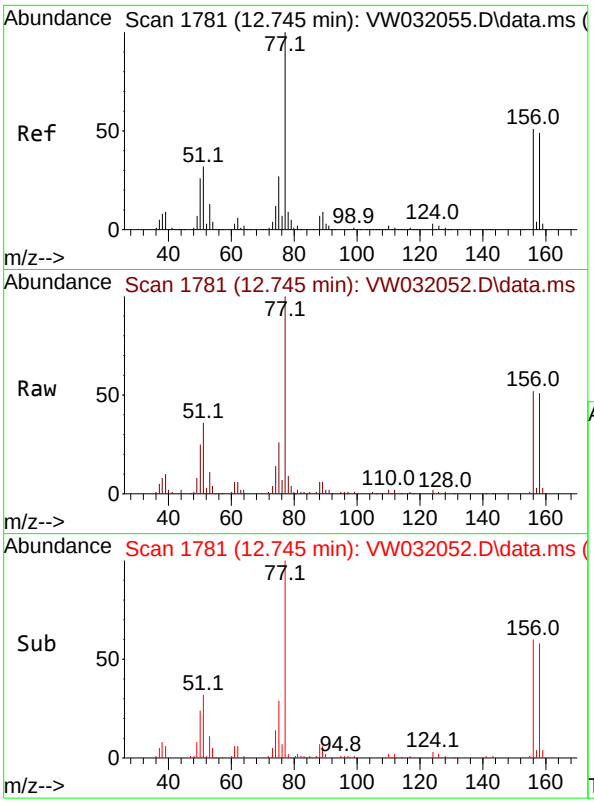


#76
1,2,3-Trichloropropane
Concen: 6.318 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 19129

Ion	Ratio	Lower	Upper
75	100		
77	172.4	123.5	370.5



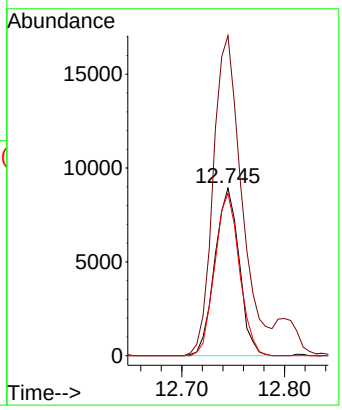


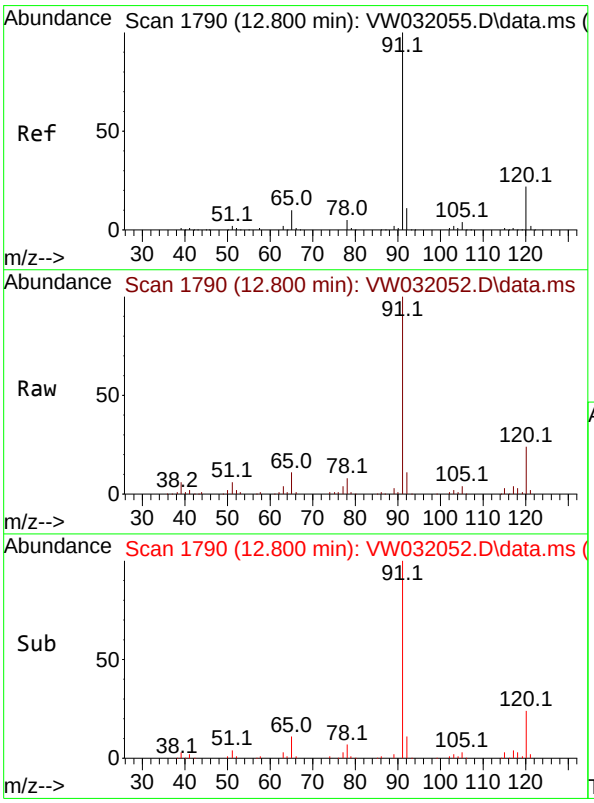
#77
Bromobenzene
Concen: 4.471 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

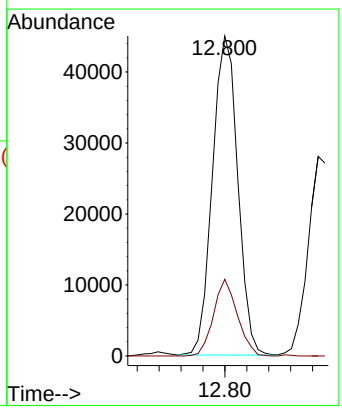


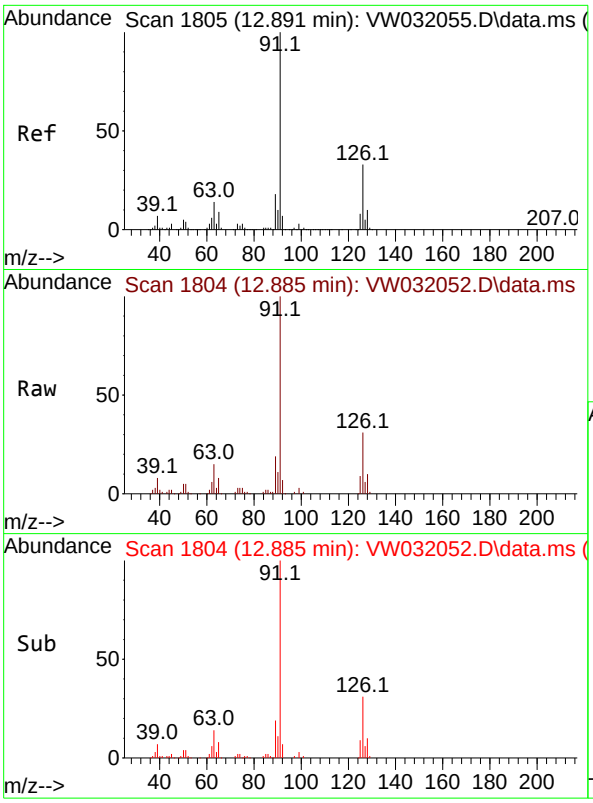


#78
n-propylbenzene
Concen: 4.257 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 72140

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3



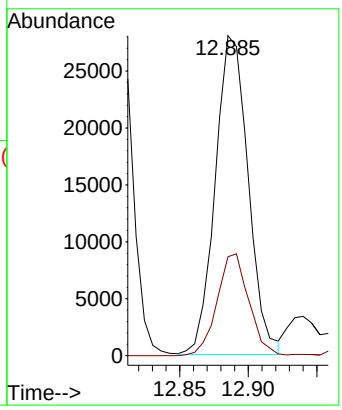


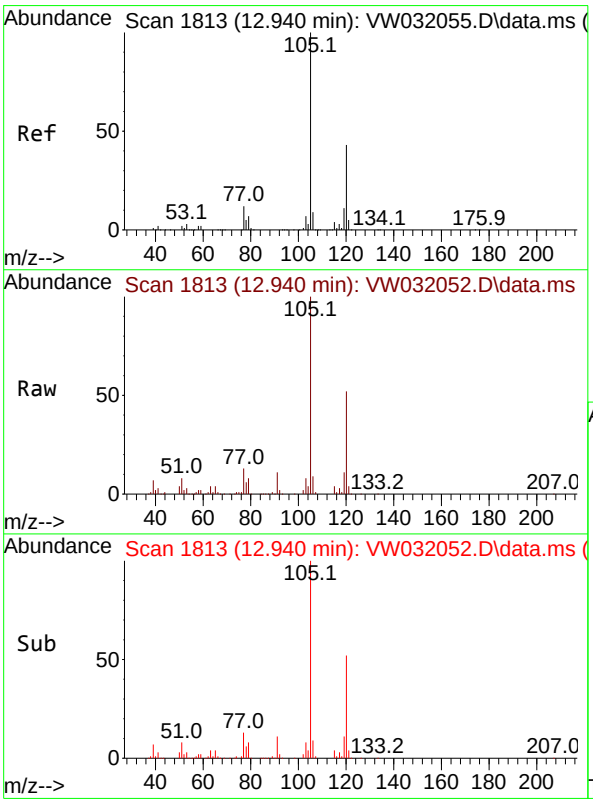
#79
2-Chlorotoluene
Concen: 4.483 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 46879

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7

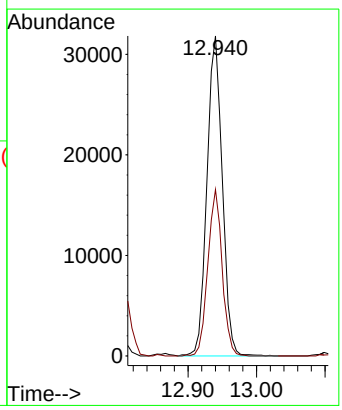


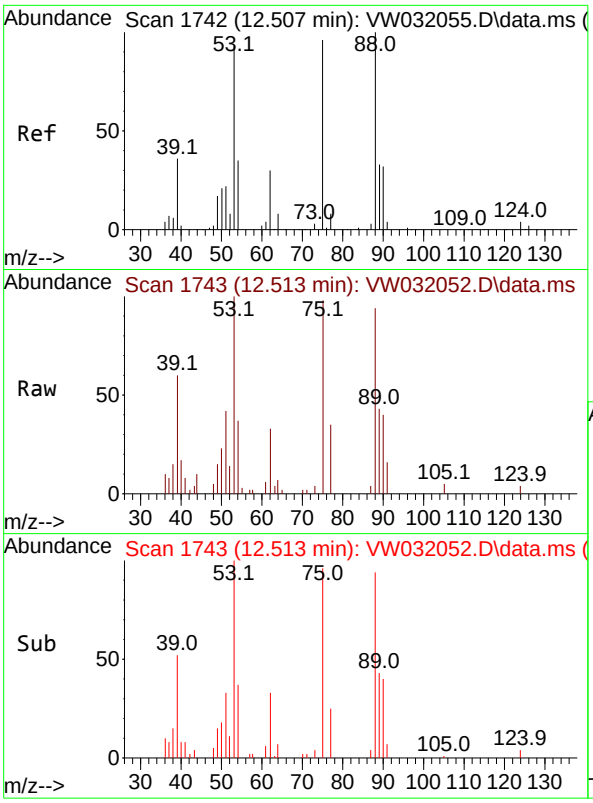


#80
1,3,5-Trimethylbenzene
Concen: 4.245 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49607

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.4	70.0



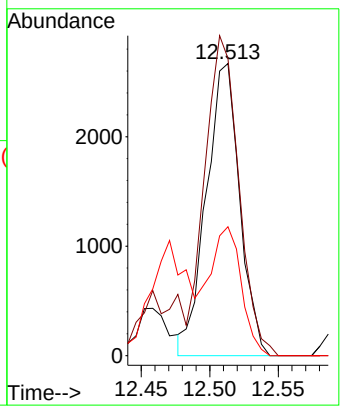


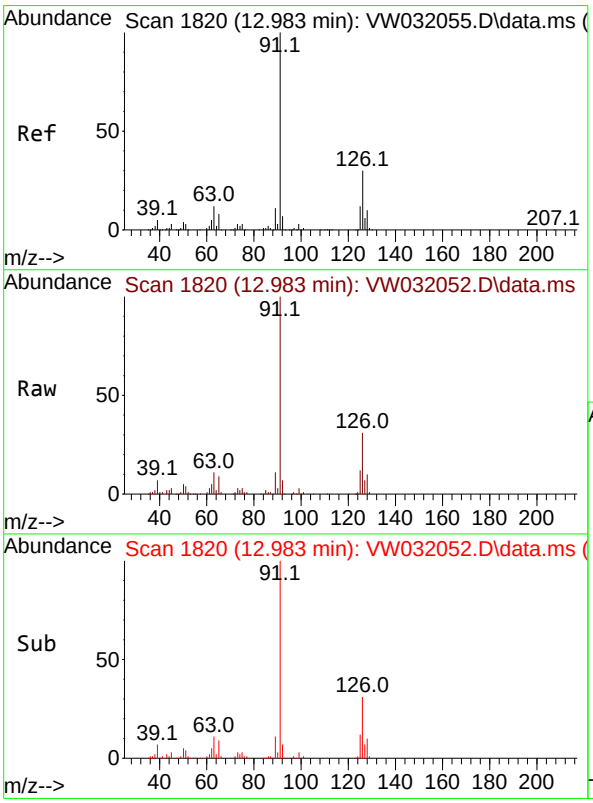
#81
trans-1,4-Dichloro-2-butene
Concen: 4.378 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

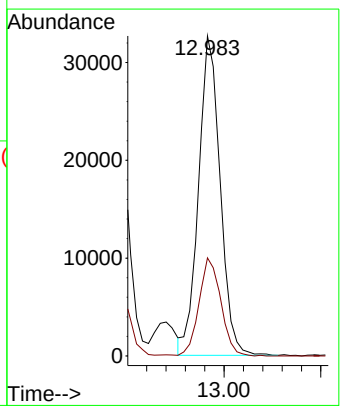


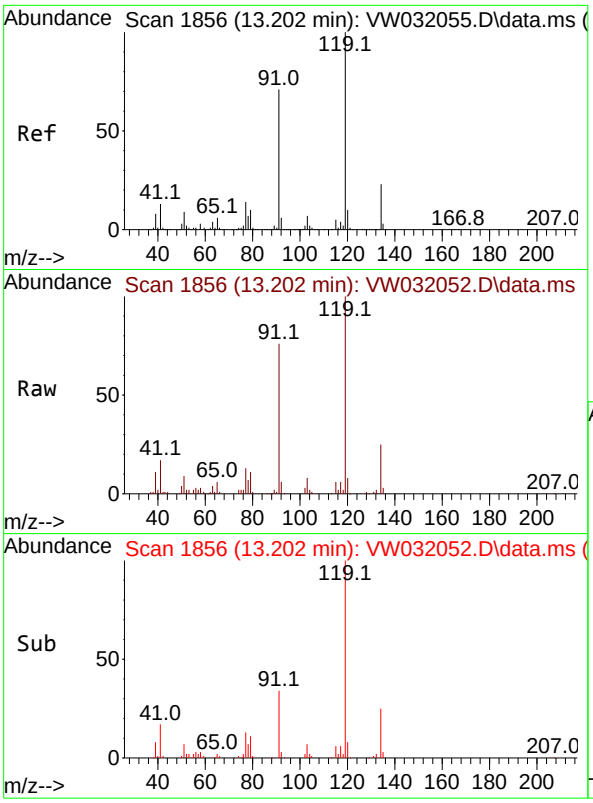


#82
4-Chlorotoluene
Concen: 4.570 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 50782

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.5	46.5



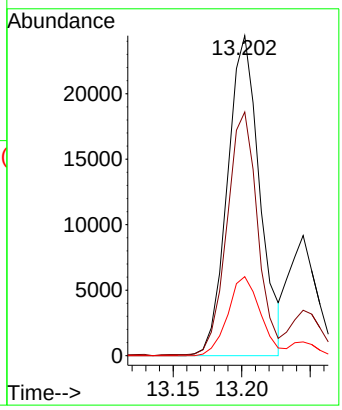


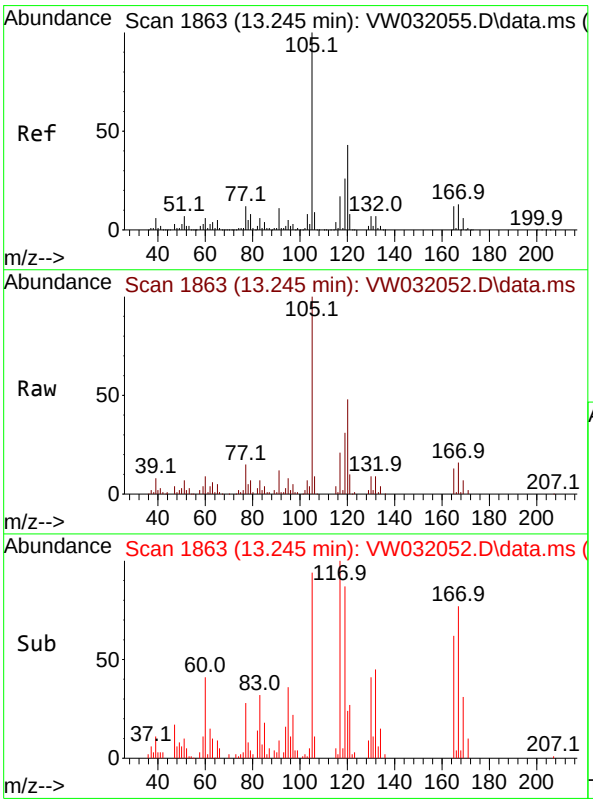
#83
tert-Butylbenzene
Concen: 4.124 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

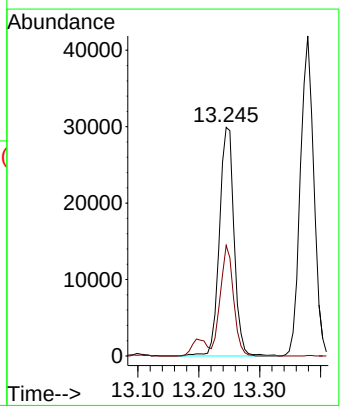


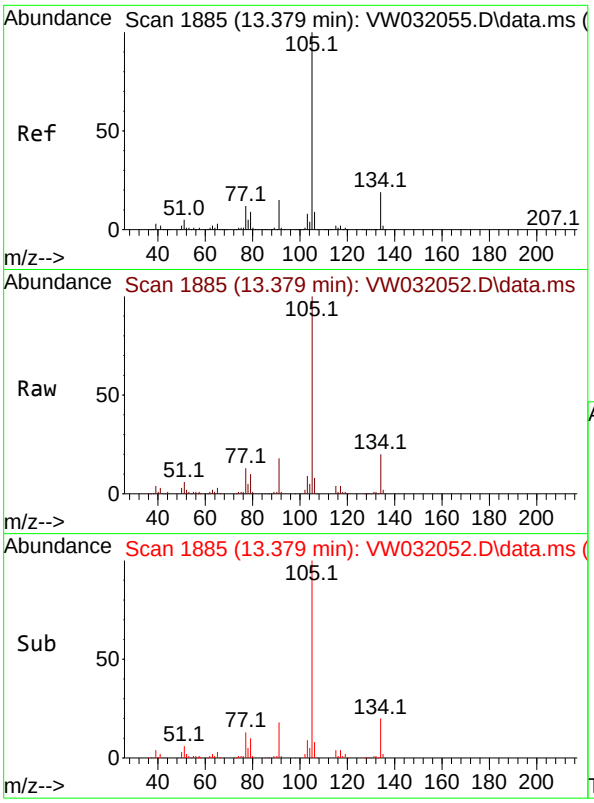


#84
1,2,4-Trimethylbenzene
Concen: 4.194 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49891

Ion	Ratio	Lower	Upper
105	100		
120	43.4	21.6	64.8



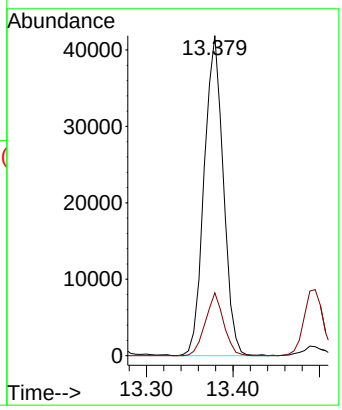


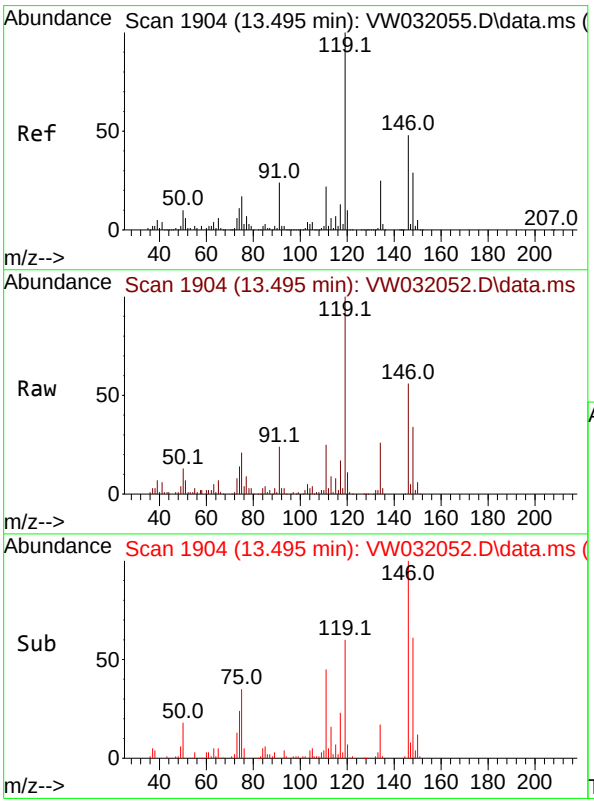
#85
sec-Butylbenzene
Concen: 4.382 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 64254

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

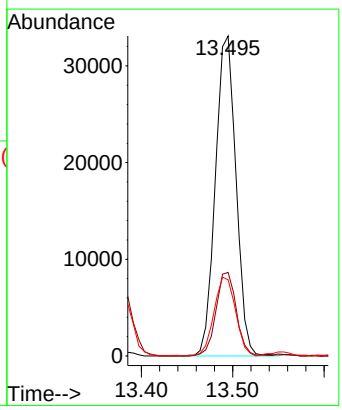


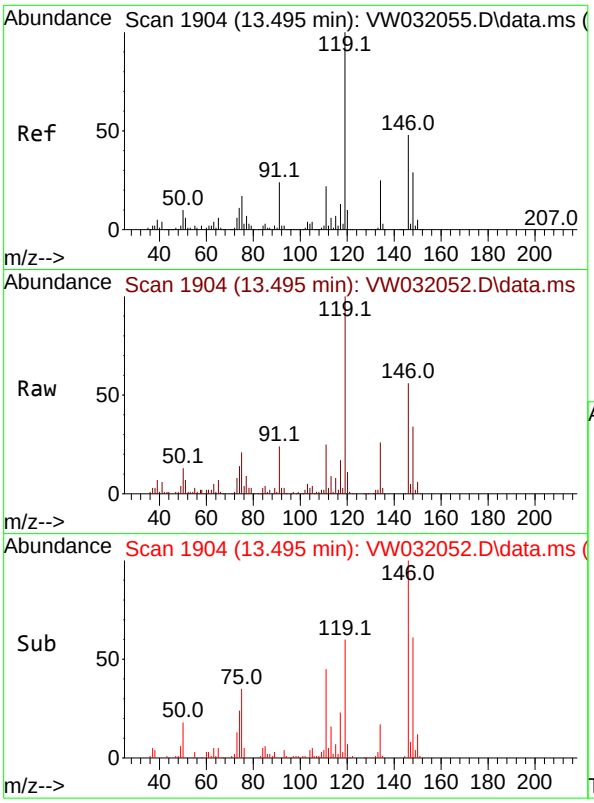


#86
p-Isopropyltoluene
Concen: 4.249 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



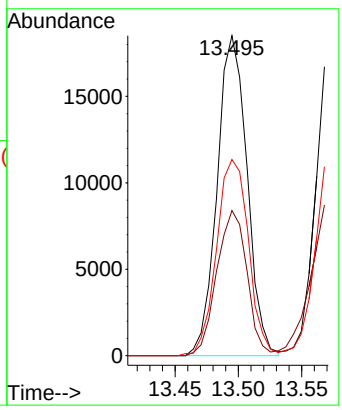


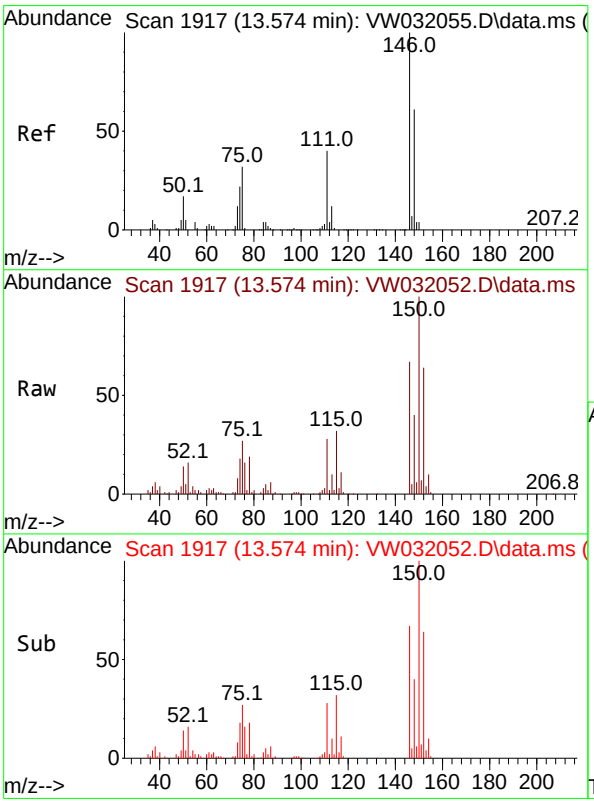
#87
1,3-Dichlorobenzene
Concen: 4.654 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

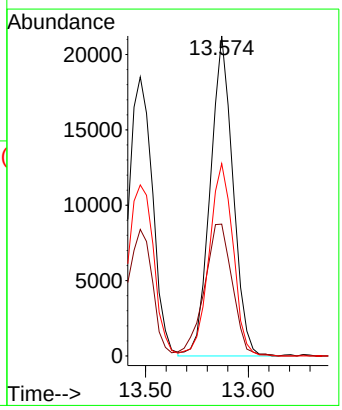


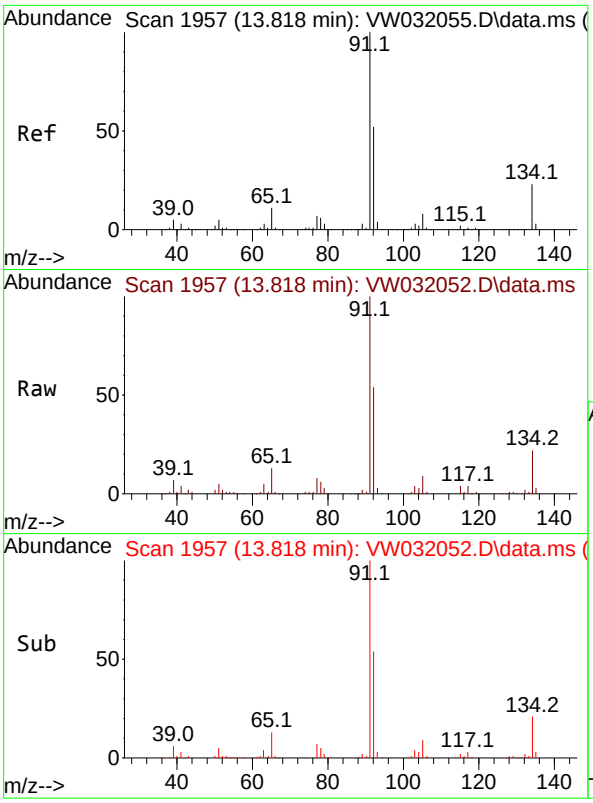


#88
1,4-Dichlorobenzene
Concen: 4.925 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



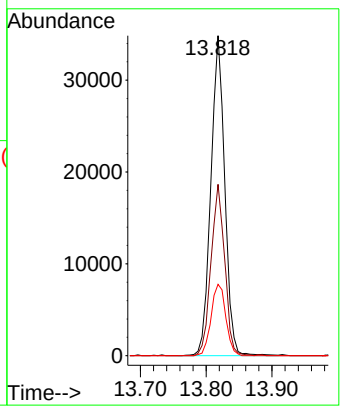


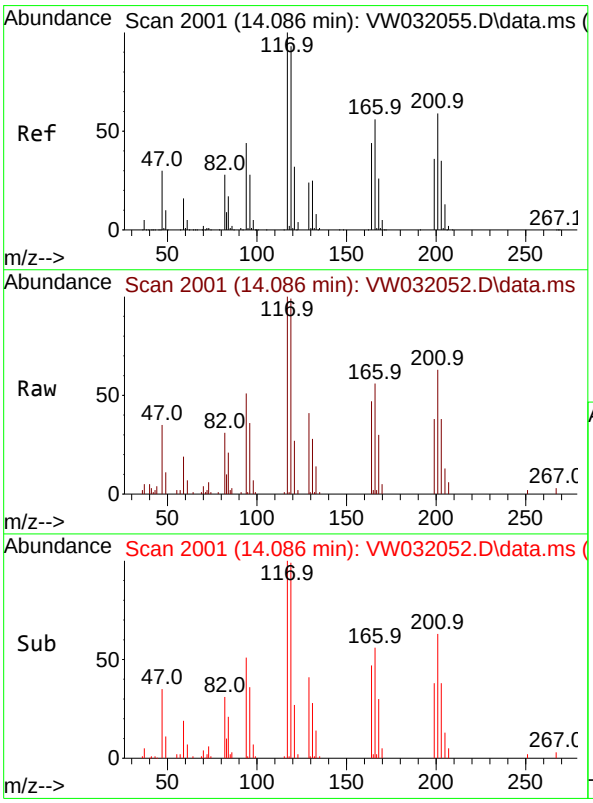
#89
n-Butylbenzene
Concen: 4.323 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

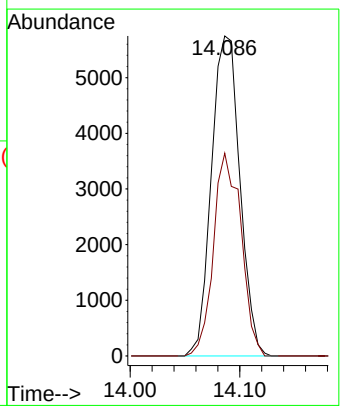


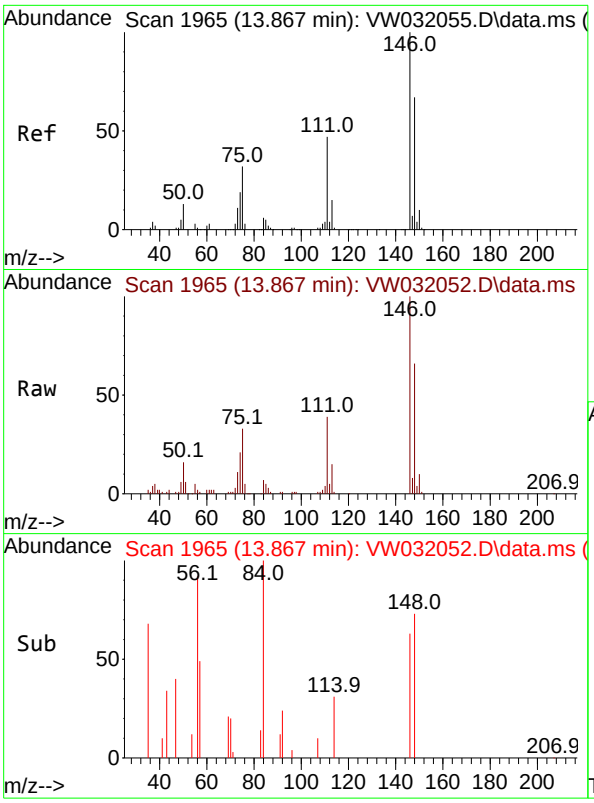


#90
Hexachloroethane
Concen: 4.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 10372

Ion	Ratio	Lower	Upper
117	100		
201	61.2	30.9	92.5



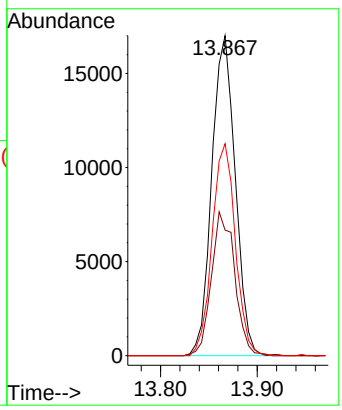


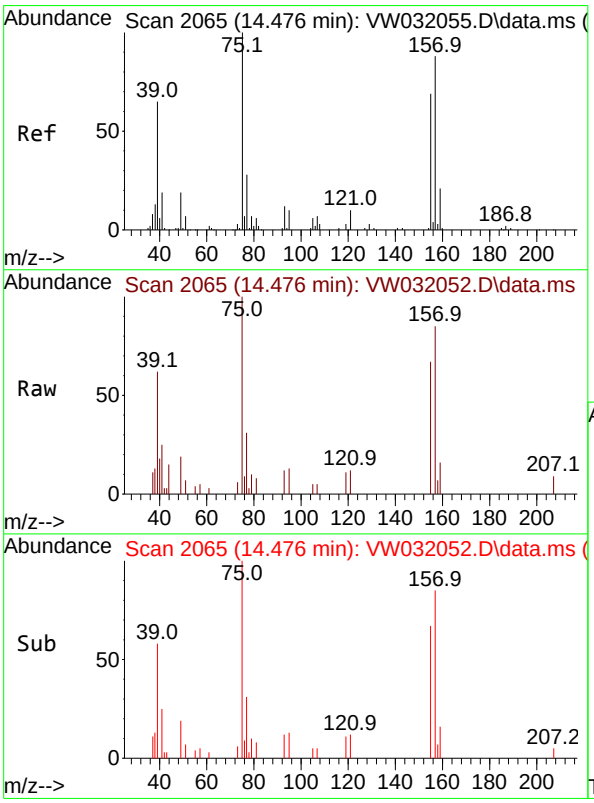
#91
1,2-Dichlorobenzene
Concen: 4.836 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

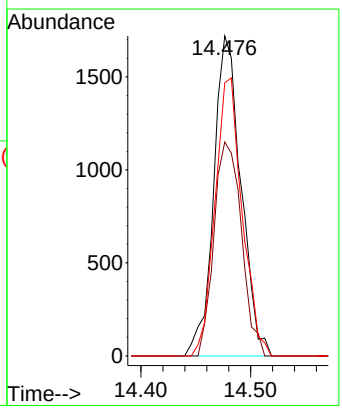


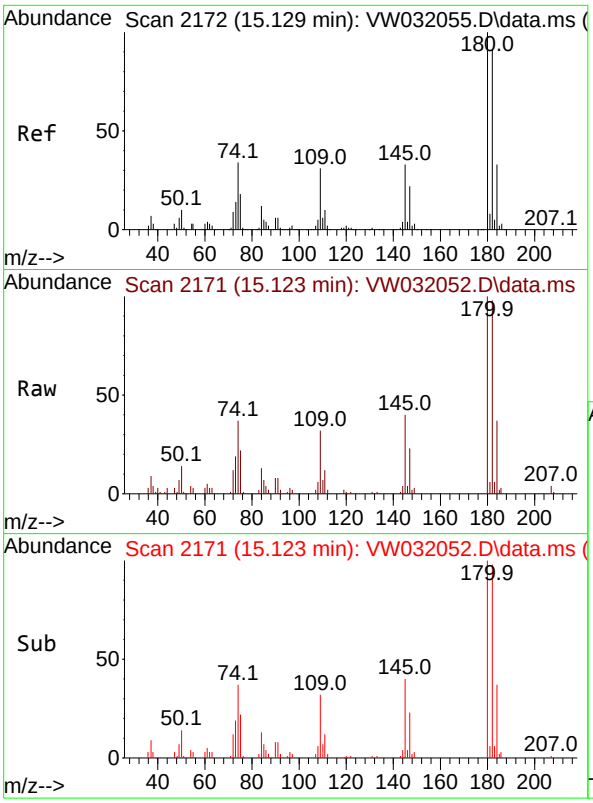


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.123 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



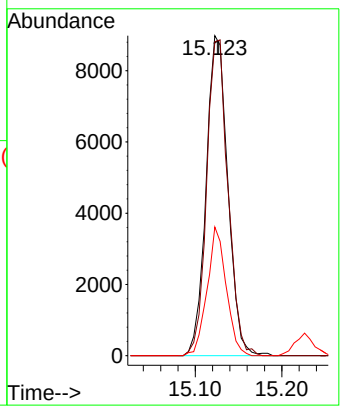


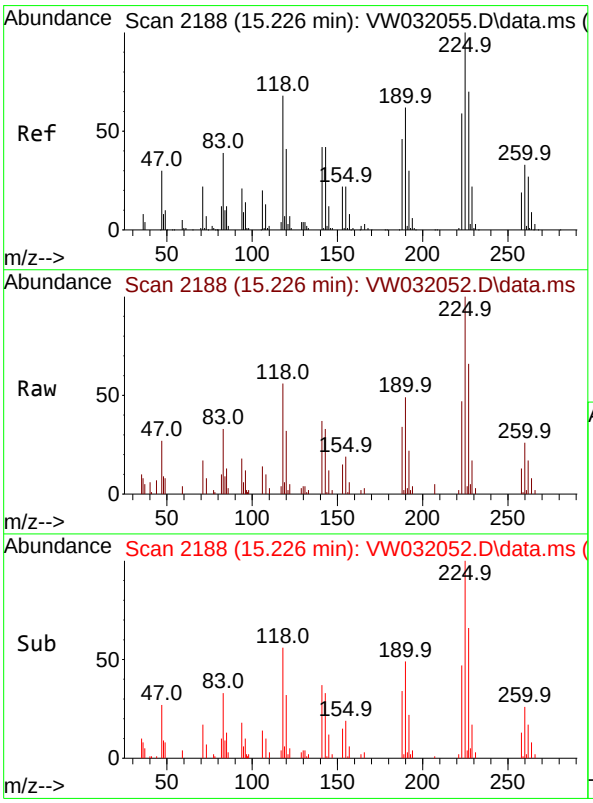
#93
1,2,4-Trichlorobenzene
Concen: 4.414 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

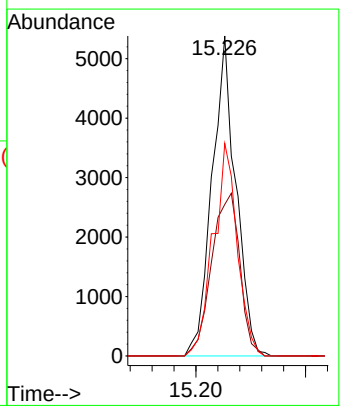


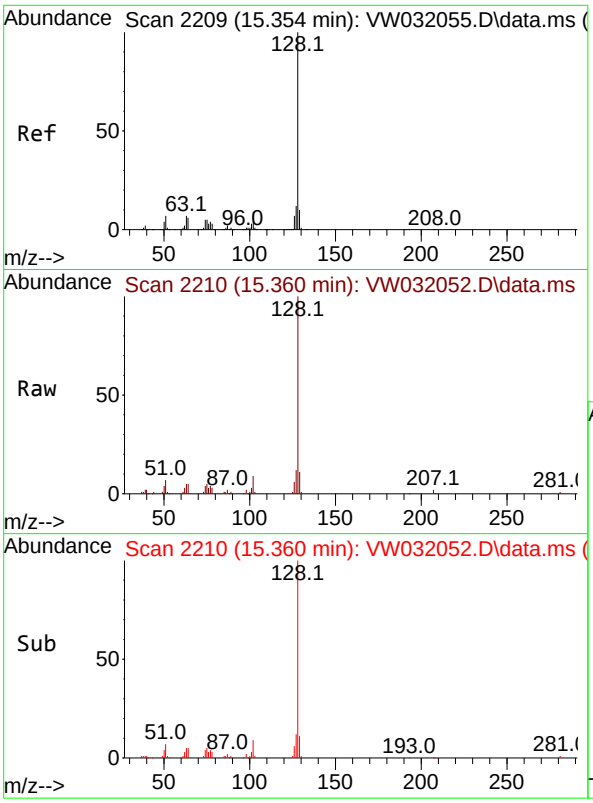


#94
Hexachlorobutadiene
Concen: 5.118 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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



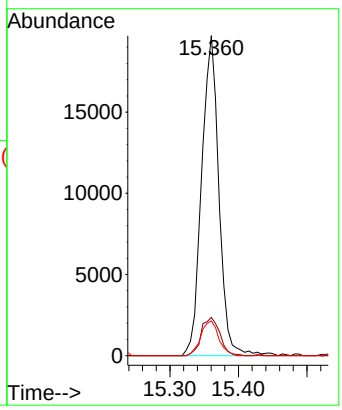


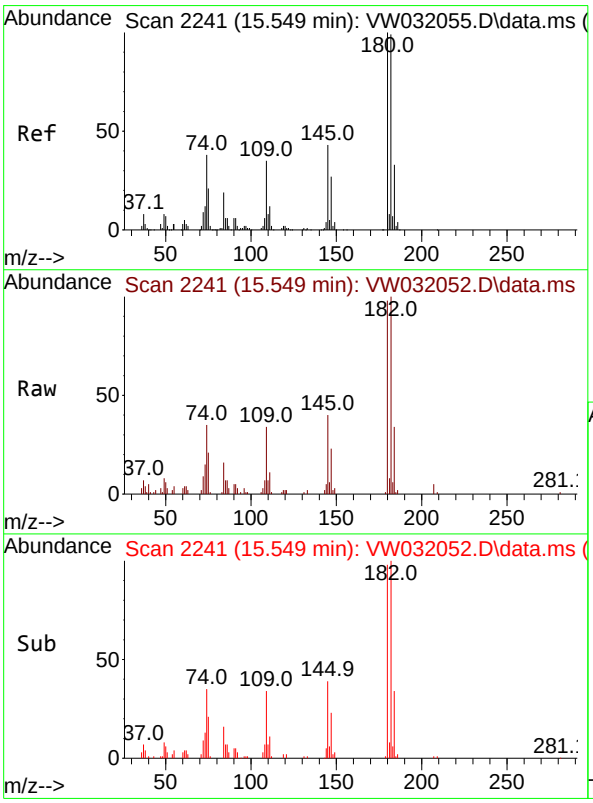
#95
Naphthalene
Concen: 3.991 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

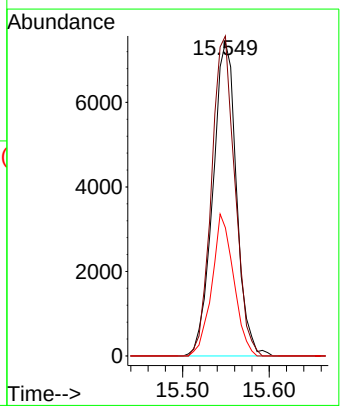




#96
1,2,3-Trichlorobenzene
Concen: 4.357 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

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

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

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)

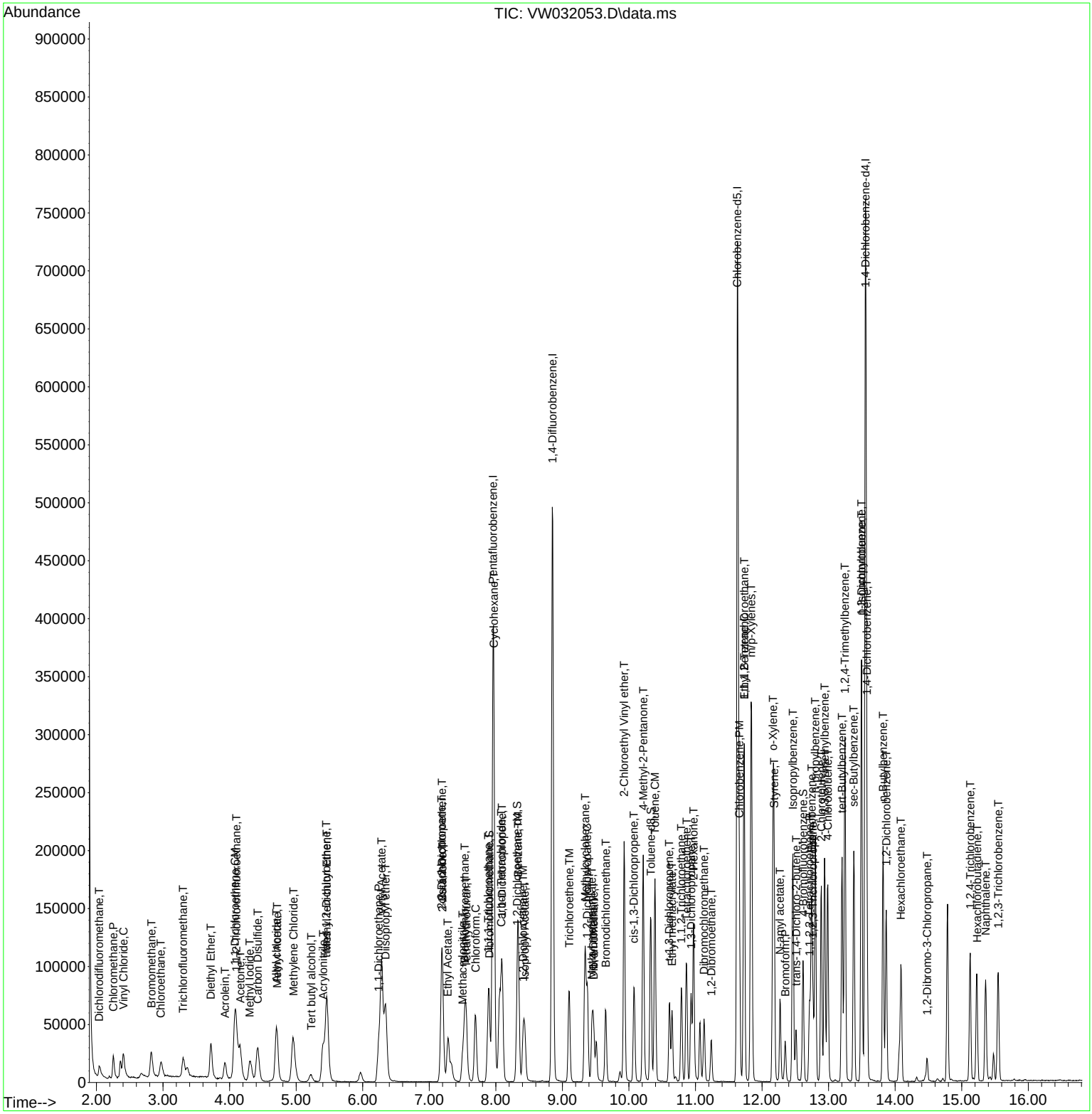
(#) = qualifier out of range (m) = manual integration (+) = signals summed

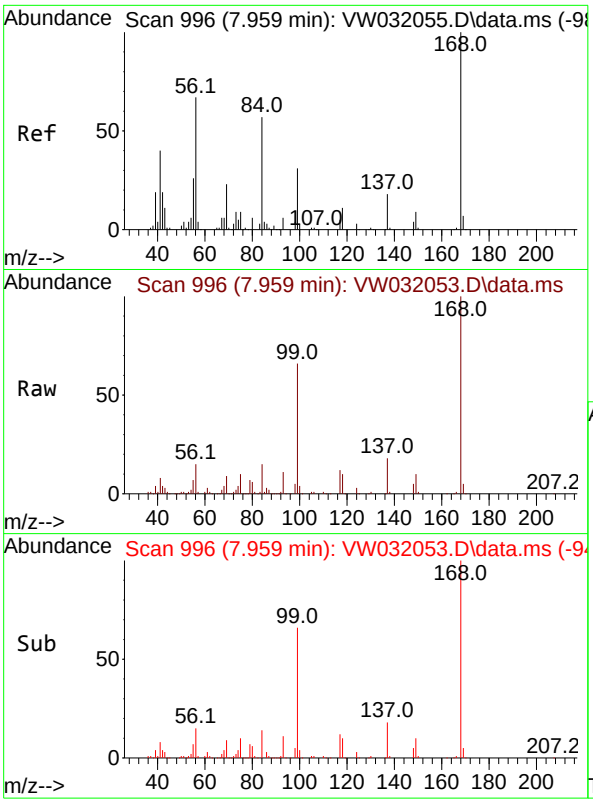
Quantitation Report (Not Reviewed)

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



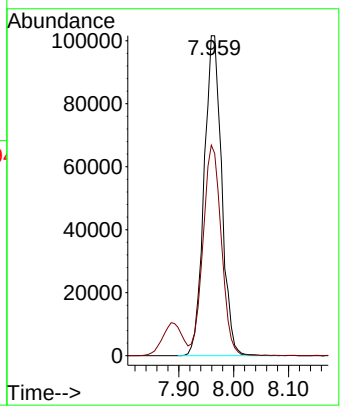


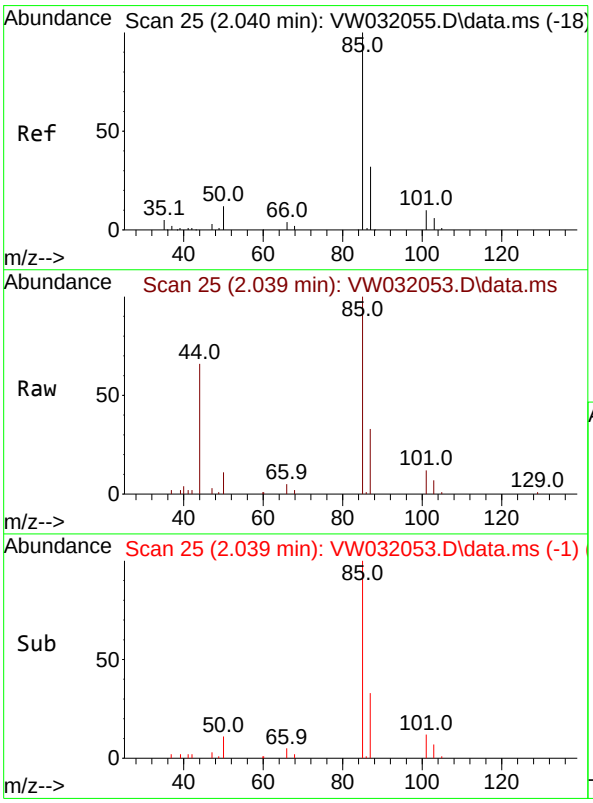
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 225221

Ion	Ratio	Lower	Upper
168	100		
99	65.7	56.0	84.0

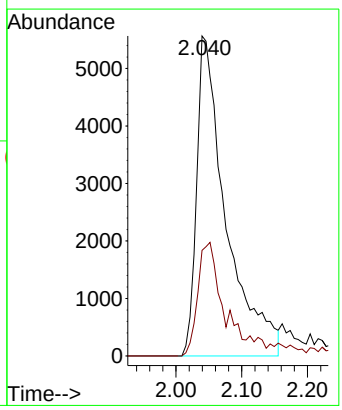


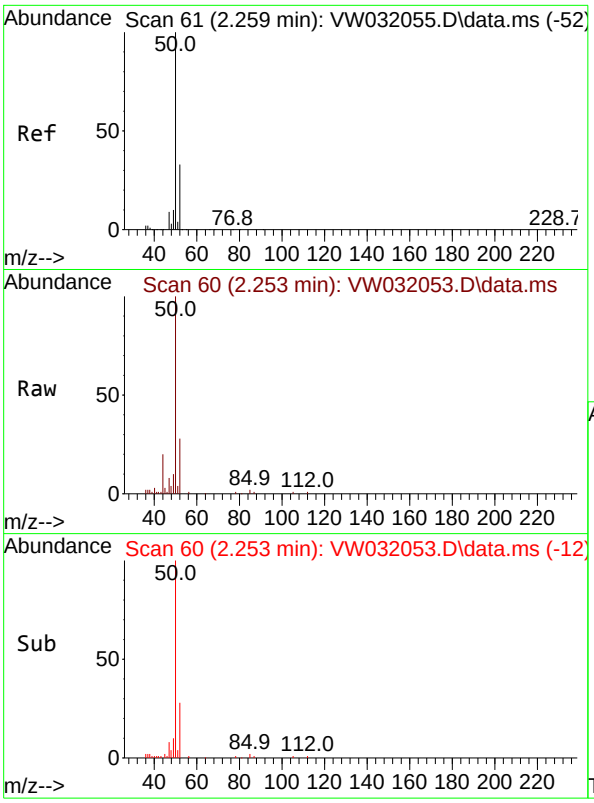


#2
Dichlorodifluoromethane
Concen: 10.714 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 85 Resp: 17258

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.2	48.6



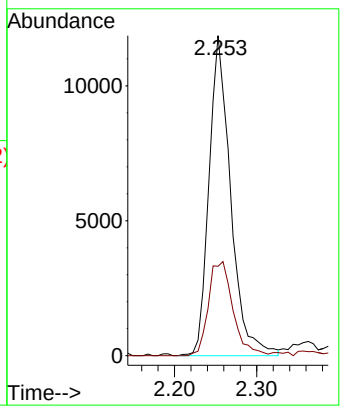


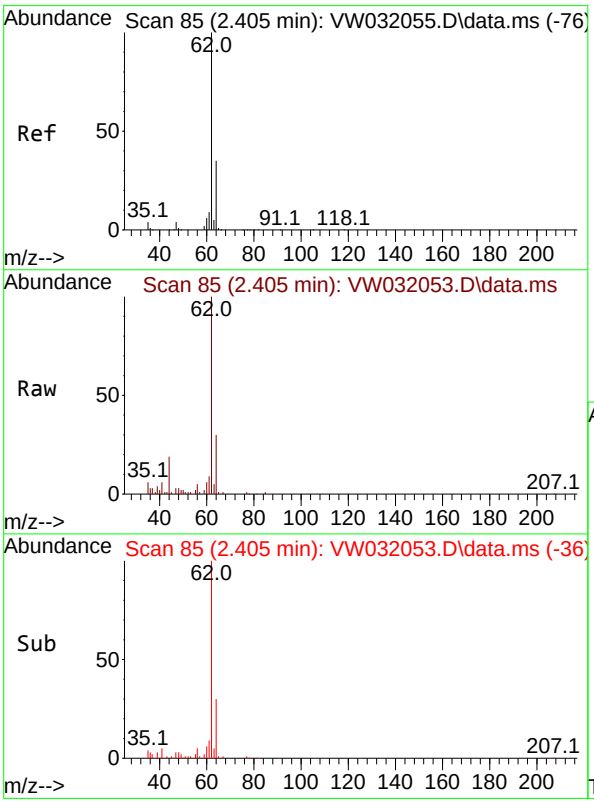
#3
Chloromethane
Concen: 9.998 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 21693

Ion	Ratio	Lower	Upper
50	100		
52	27.9	26.6	39.8

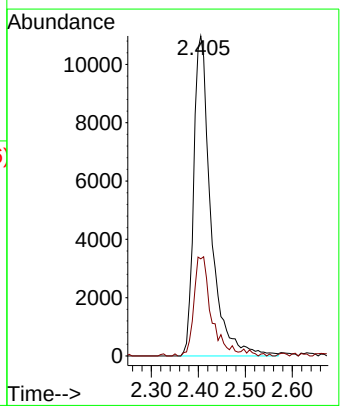


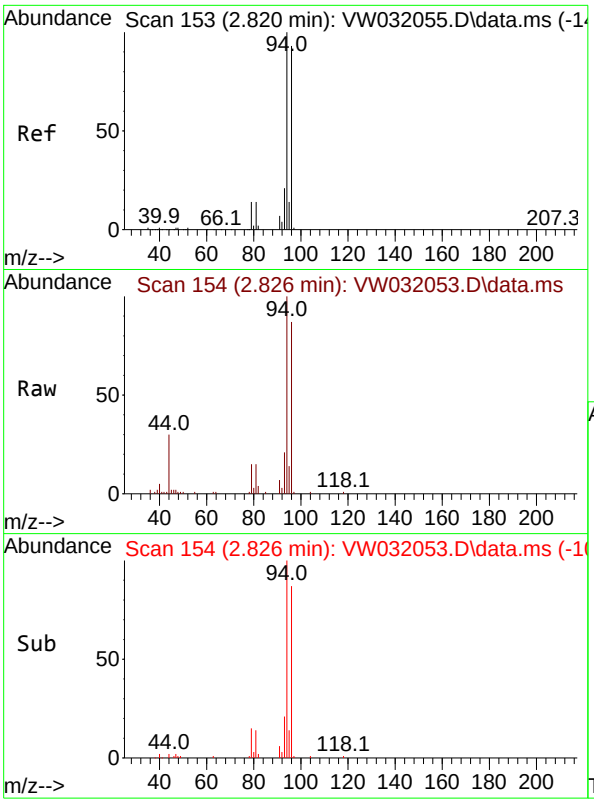


#4
Vinyl Chloride
Concen: 10.660 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 27978

Ion	Ratio	Lower	Upper
62	100		
64	30.3	27.8	41.6



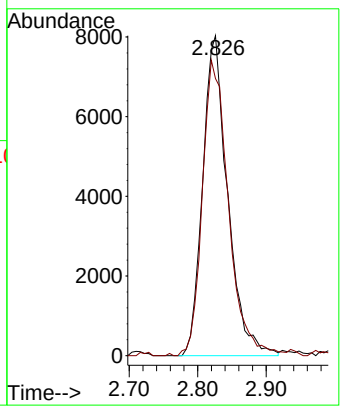


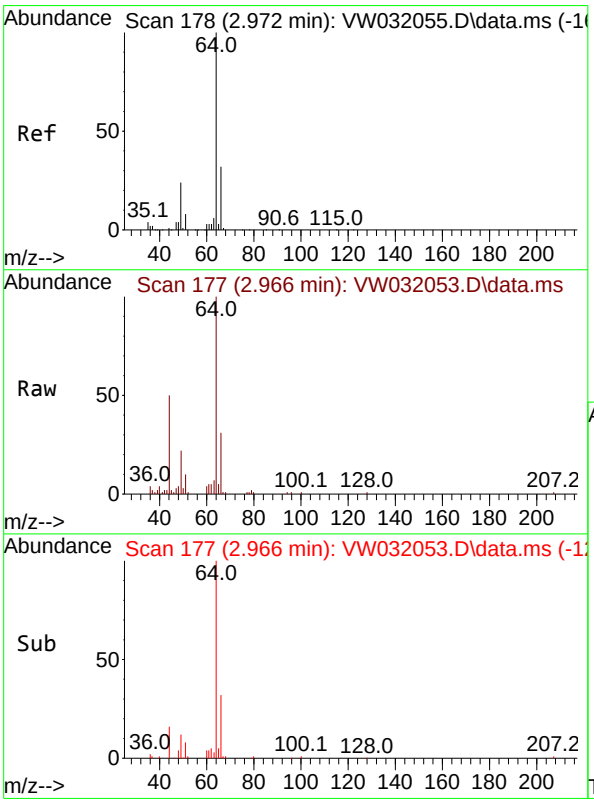
#5
Bromomethane
Concen: 10.332 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 20345

Ion	Ratio	Lower	Upper
94	100		
96	86.6	74.7	112.1

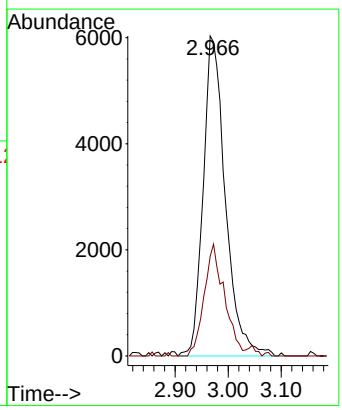


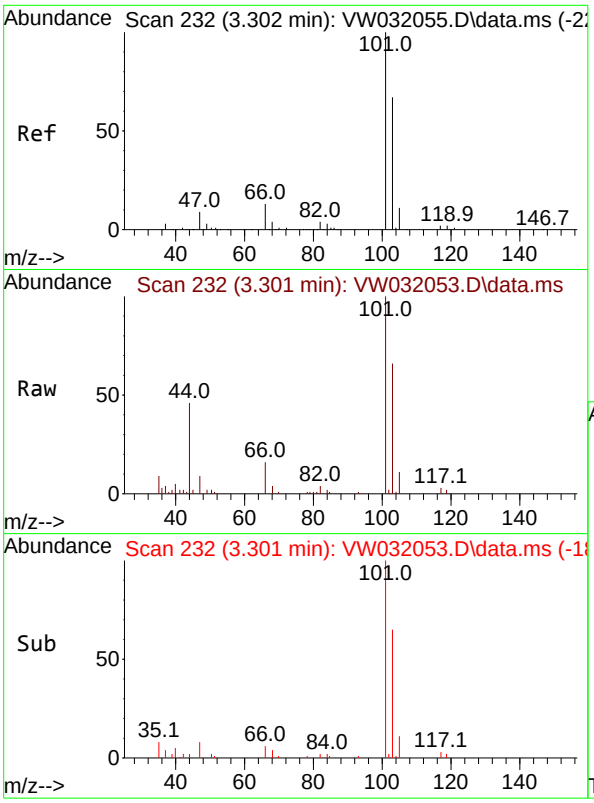


#6
Chloroethane
Concen: 10.081 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 64 Resp: 17509

Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.0	39.0



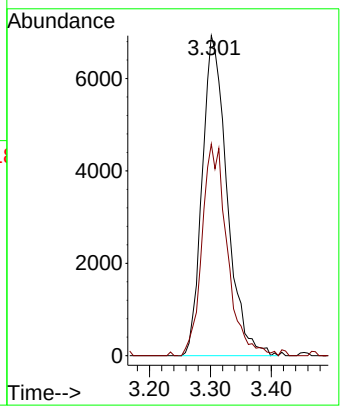


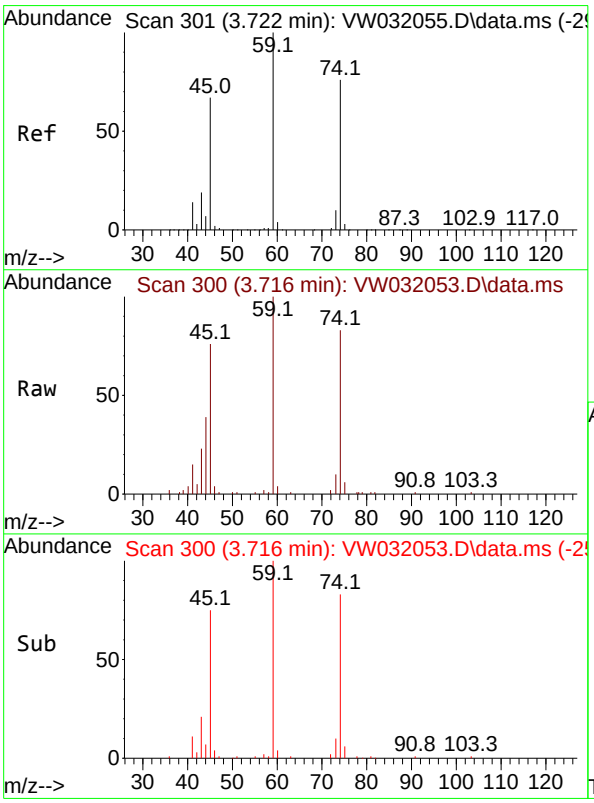
#7
Trichlorofluoromethane
Concen: 9.333 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 19623

Ion	Ratio	Lower	Upper
101	100		
103	66.2	53.4	80.0

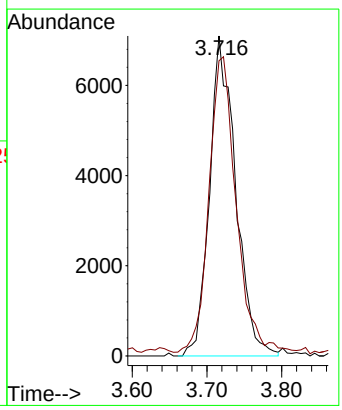


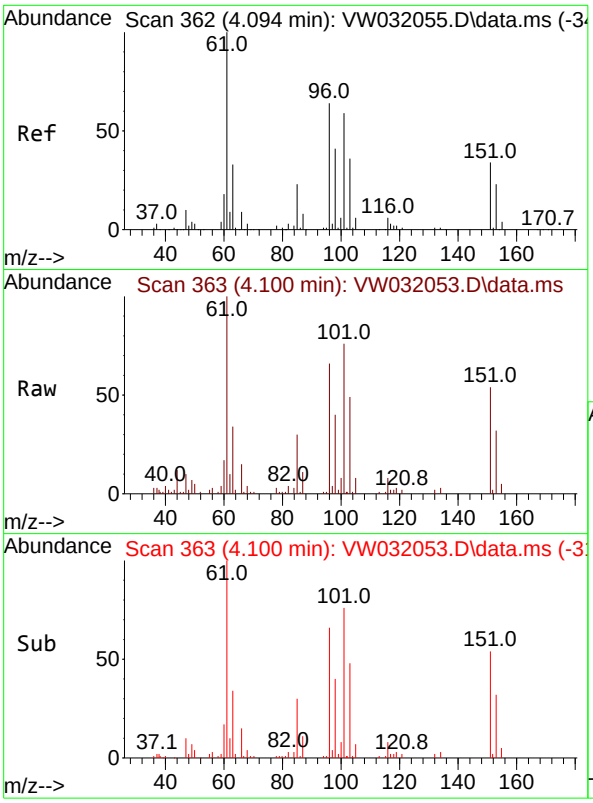


#8
Diethyl Ether
Concen: 10.000 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 74 Resp: 17227

Ion	Ratio	Lower	Upper
74	100		
45	95.9	45.4	136.2



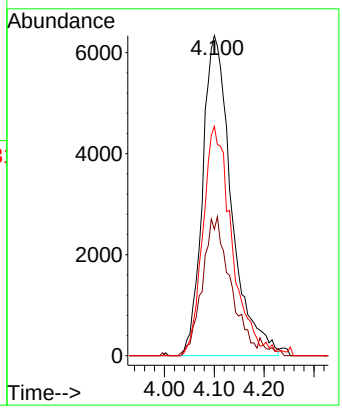


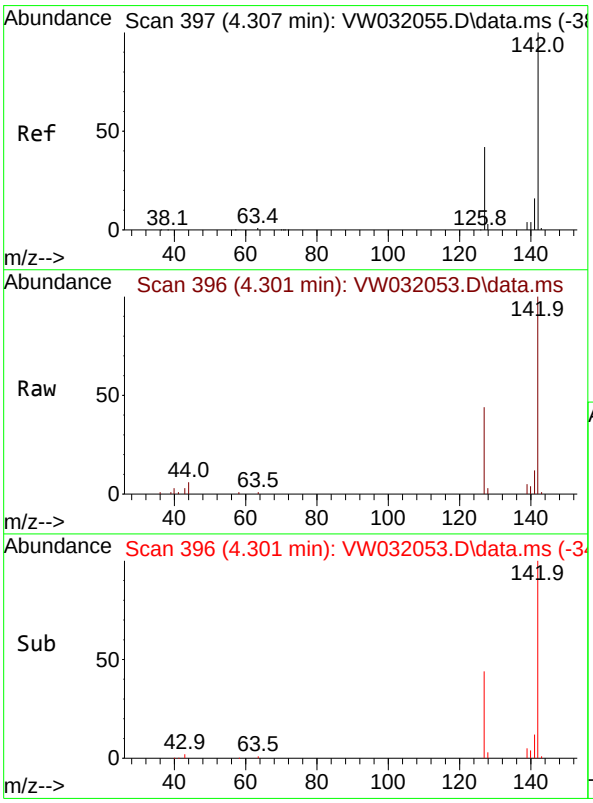
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.276 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

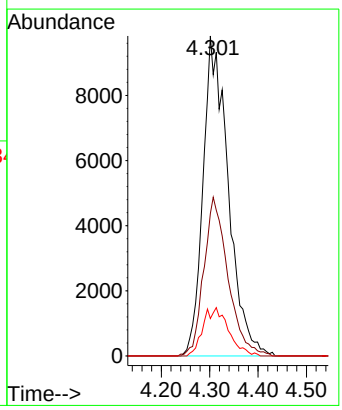


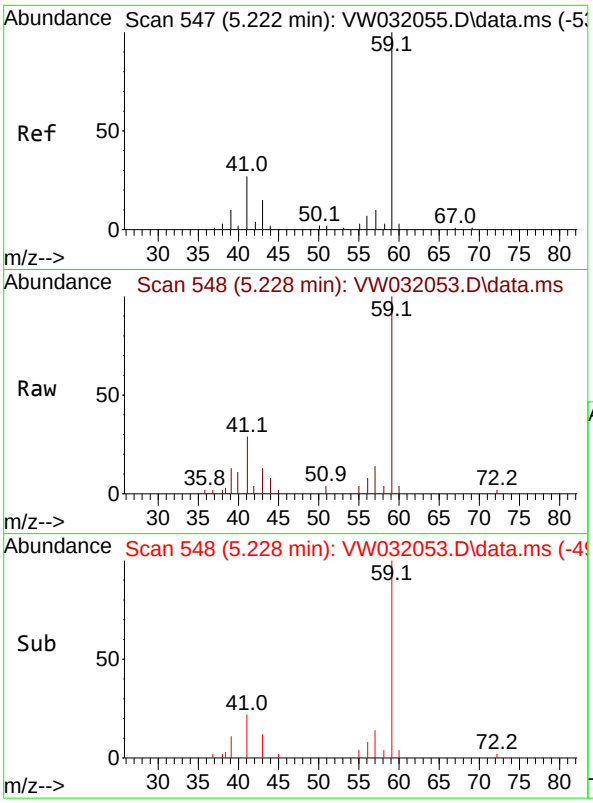


#10
Methyl Iodide
Concen: 10.098 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



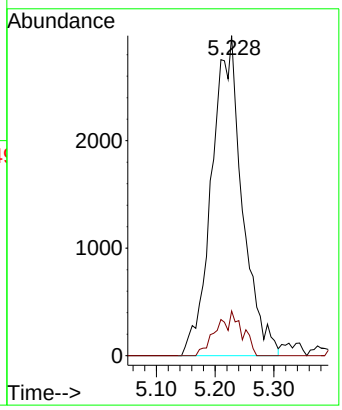


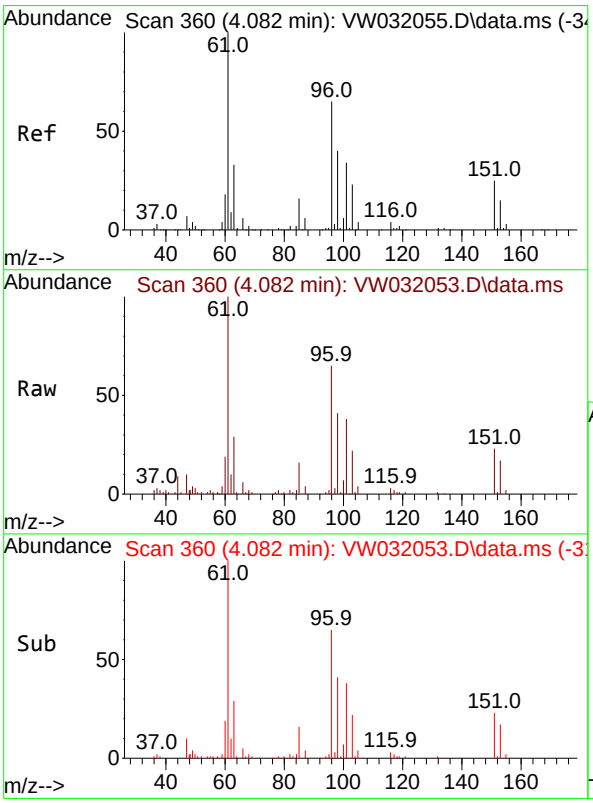
#11
Tert butyl alcohol
Concen: 50.985 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 10754

Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.7	13.1

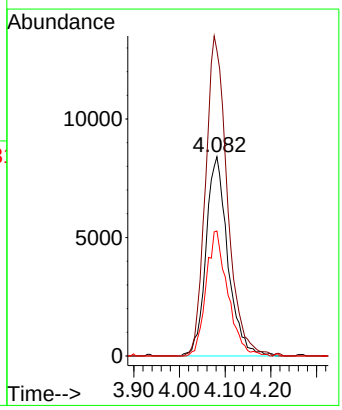


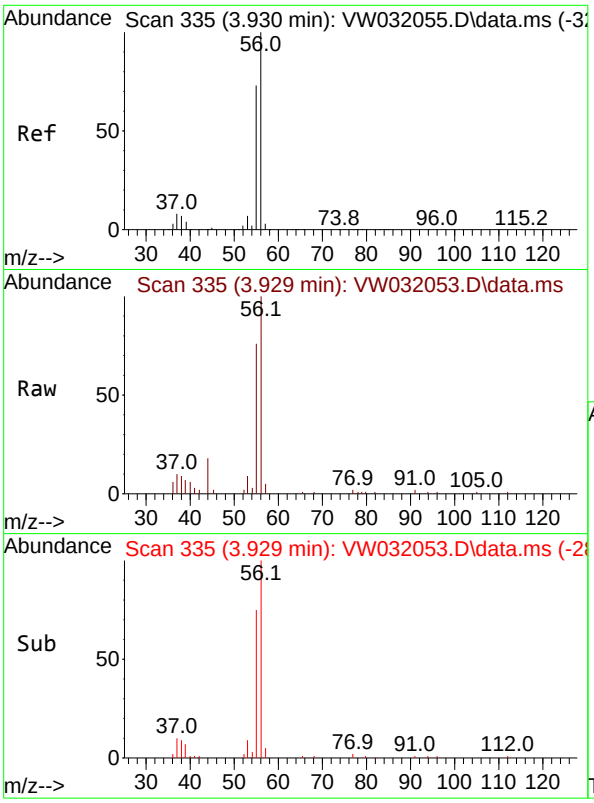


#12
1,1-Dichloroethene
Concen: 10.231 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



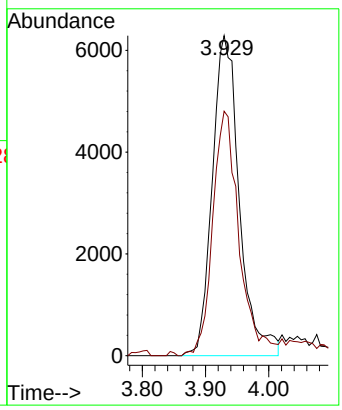


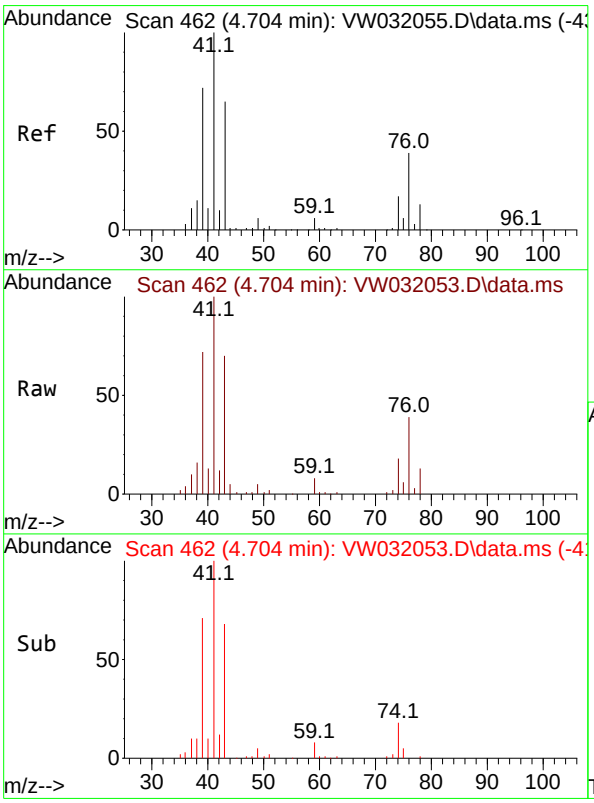
#13
Acrolein
Concen: 55.493 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 18650

Ion	Ratio	Lower	Upper
56	100		
55	74.5	55.4	83.2

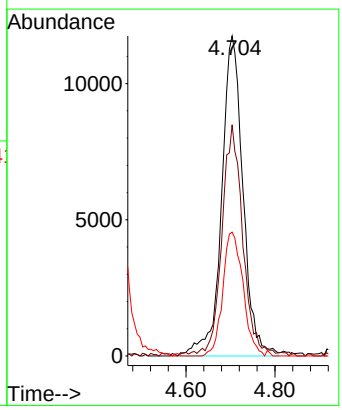


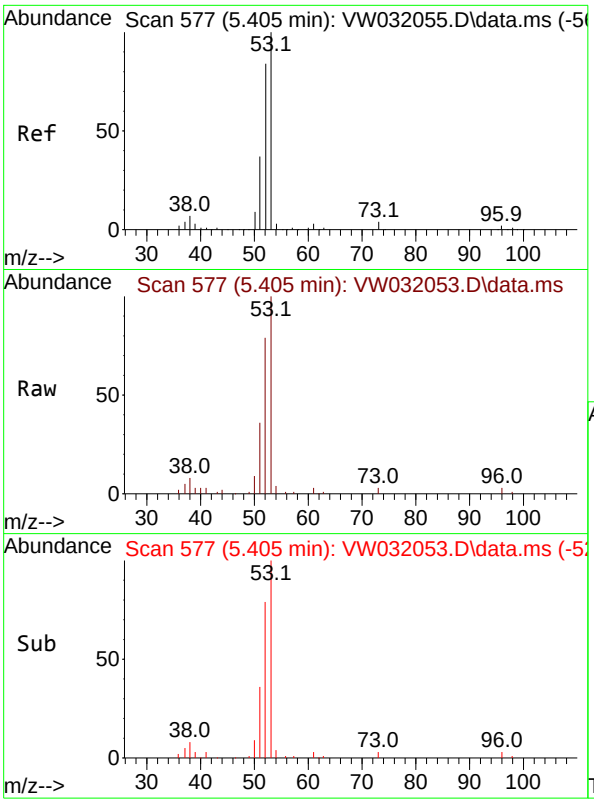


#14
Allyl chloride
Concen: 9.839 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



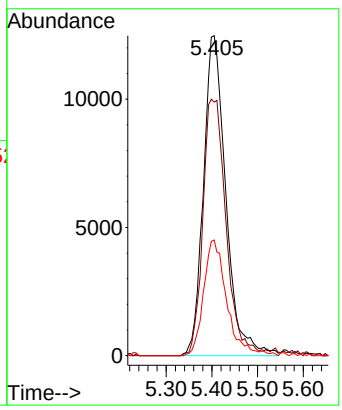


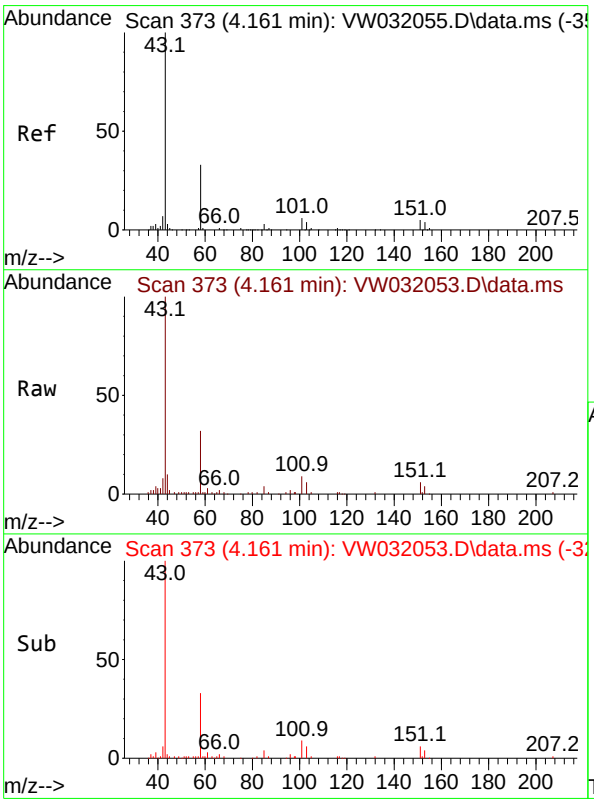
#15
Acrylonitrile
Concen: 51.842 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

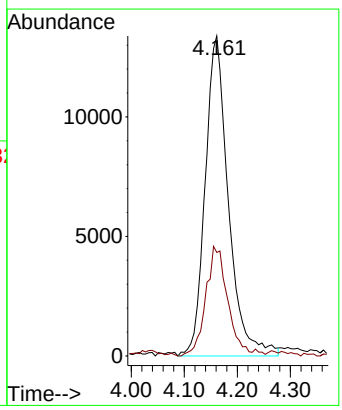


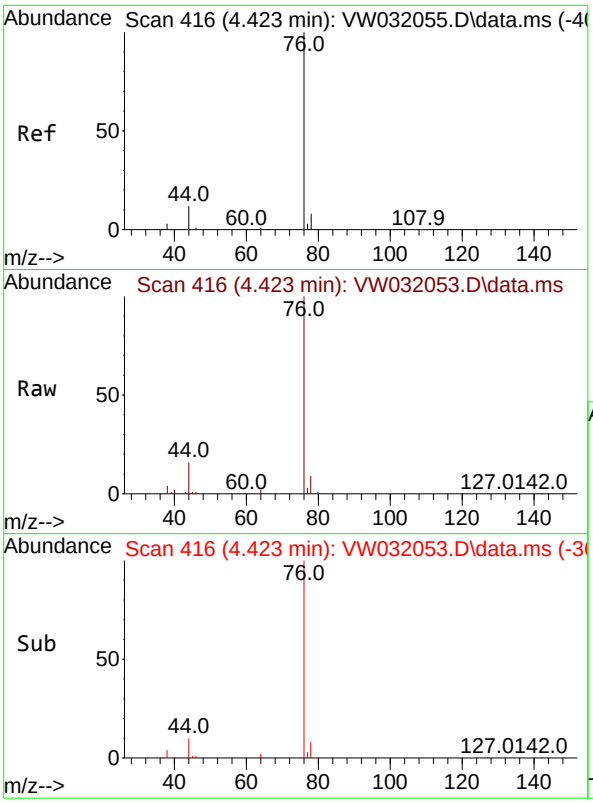


#16
Acetone
Concen: 54.122 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 40816

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.6	39.8



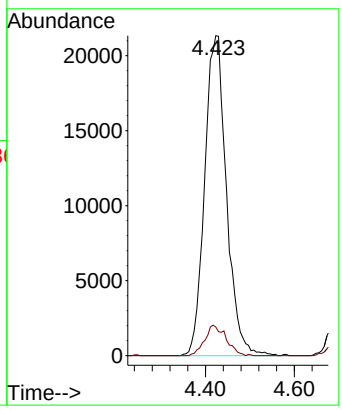


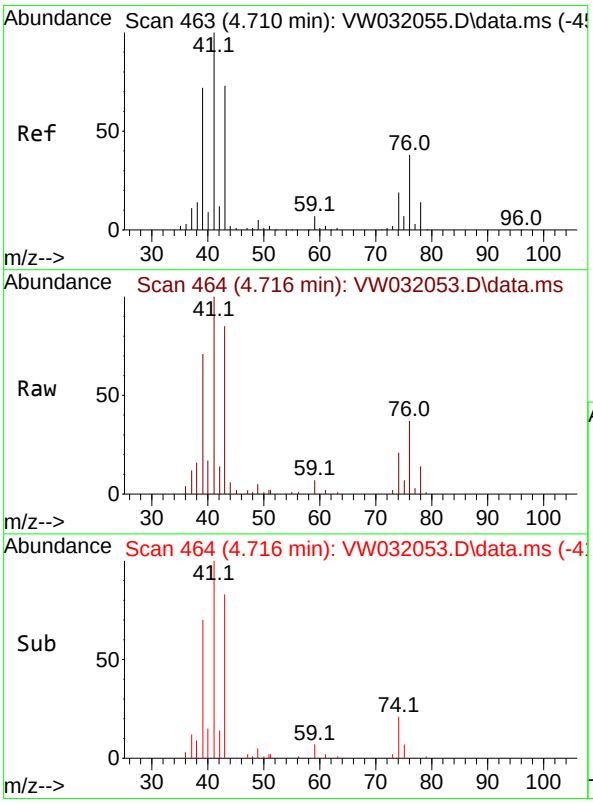
#17
Carbon Disulfide
Concen: 9.931 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 72806

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.4	9.6

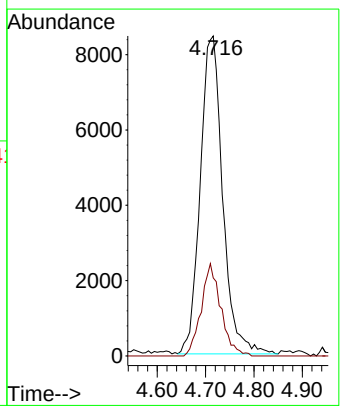


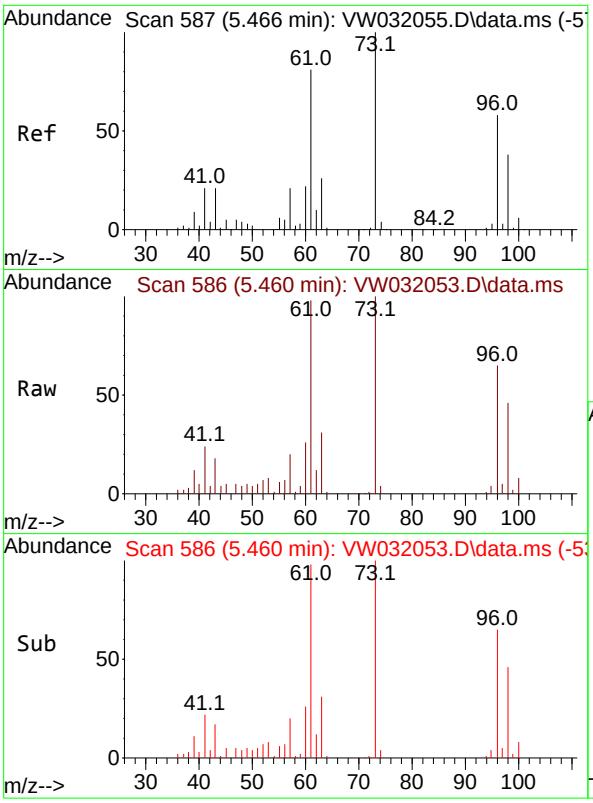


#18
Methyl Acetate
Concen: 11.394 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 27191

Ion	Ratio	Lower	Upper
43	100		
74	25.5	20.6	31.0



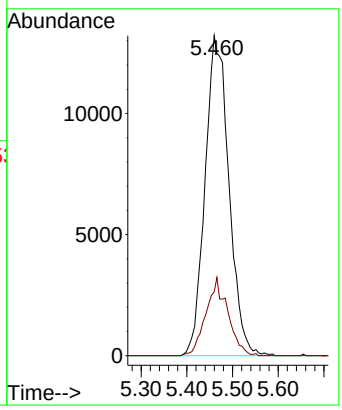


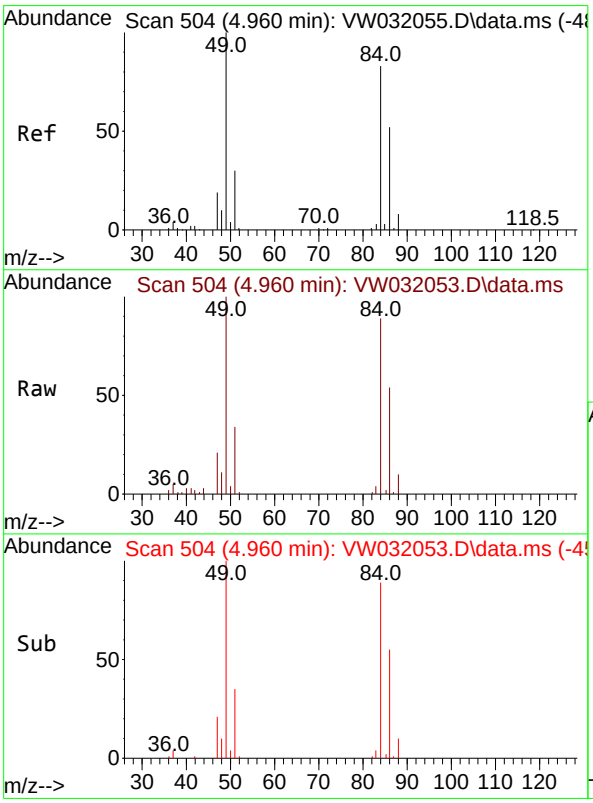
#19
Methyl tert-butyl Ether
Concen: 9.947 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 47872

Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.2	25.8

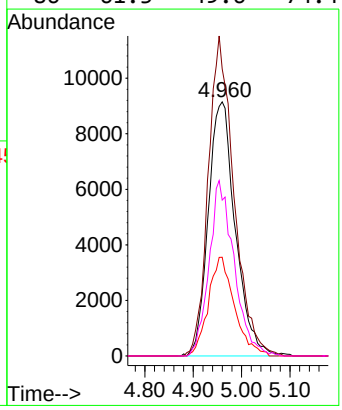


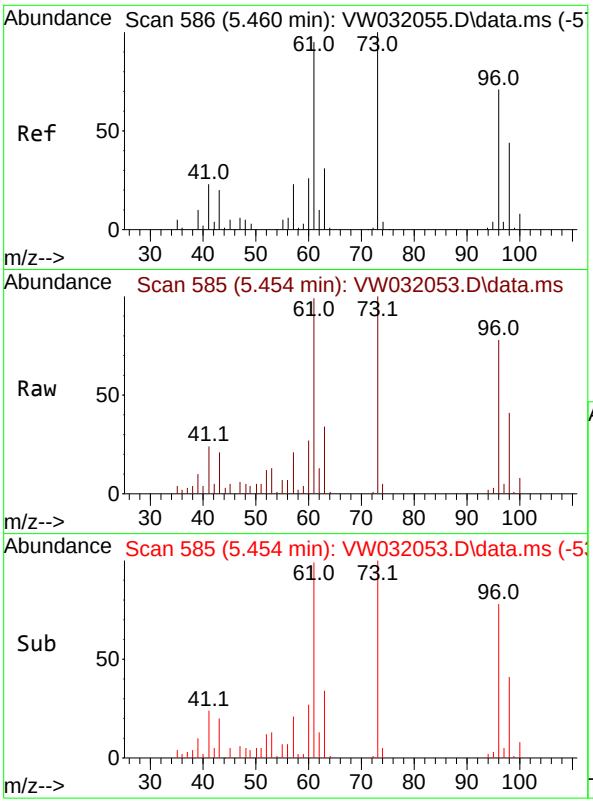


#20
Methylene Chloride
Concen: 10.170 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



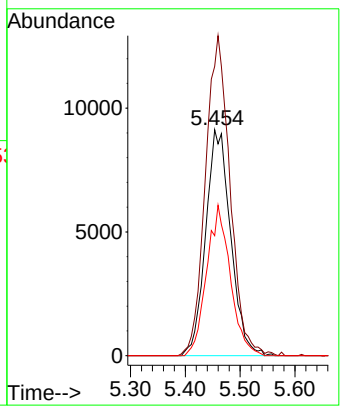


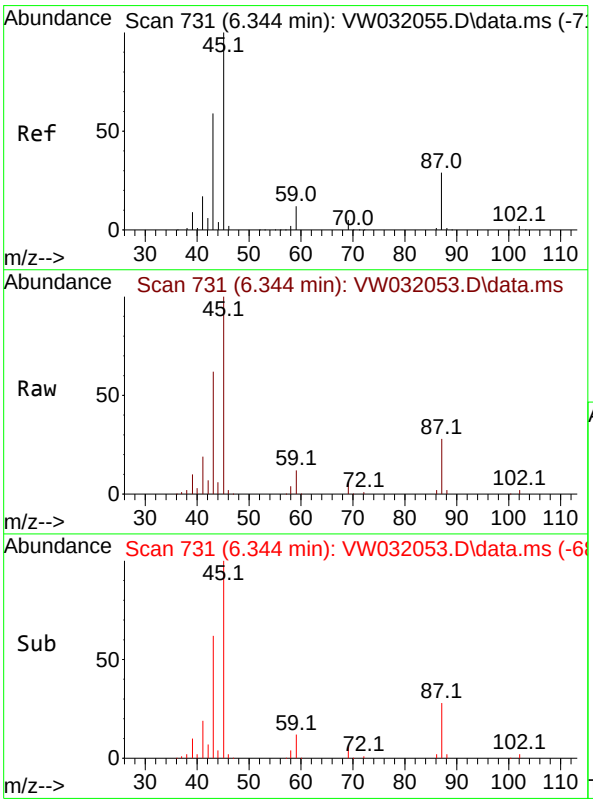
#21
trans-1,2-Dichloroethene
Concen: 9.962 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

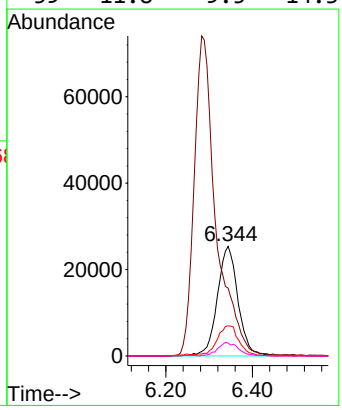


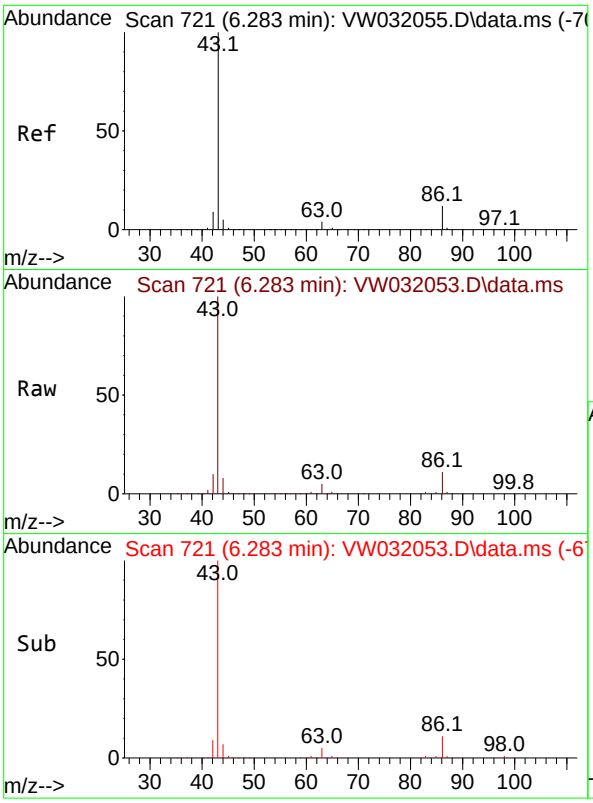


#22
Diisopropyl ether
Concen: 10.029 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



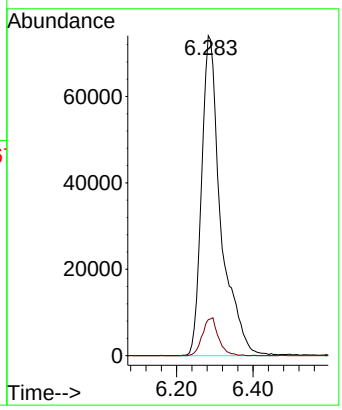


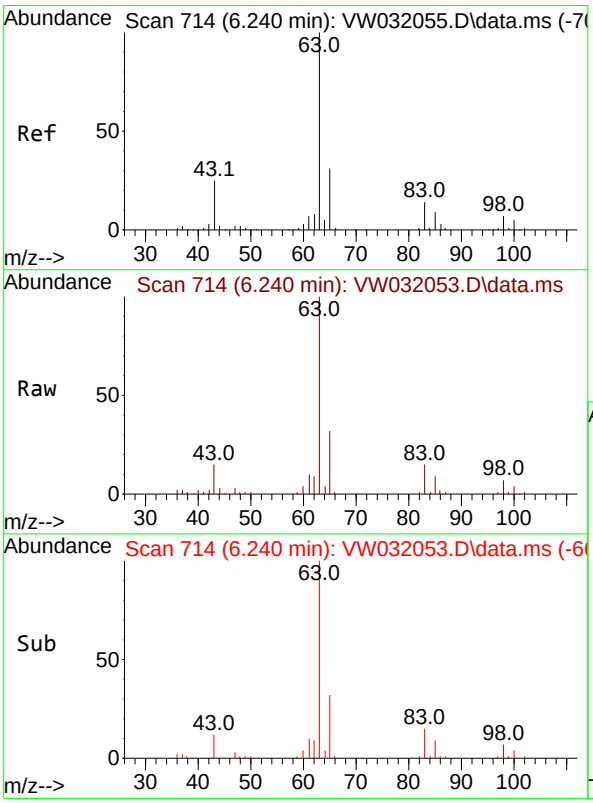
#23
Vinyl Acetate
Concen: 47.081 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 259050

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.4	14.0

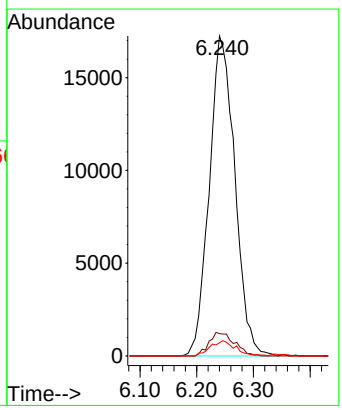


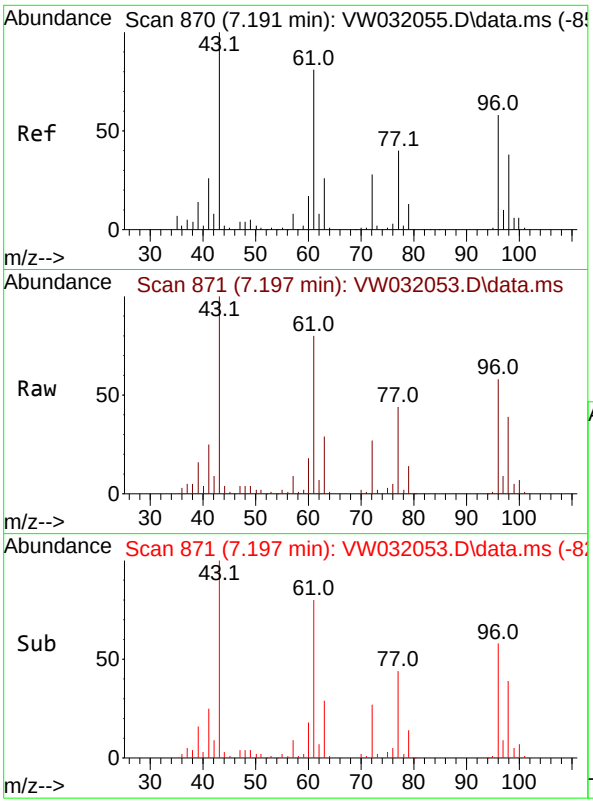


#24
1,1-Dichloroethane
Concen: 10.095 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



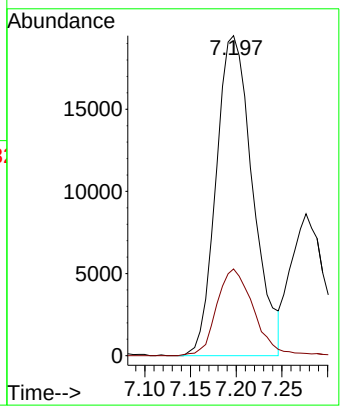


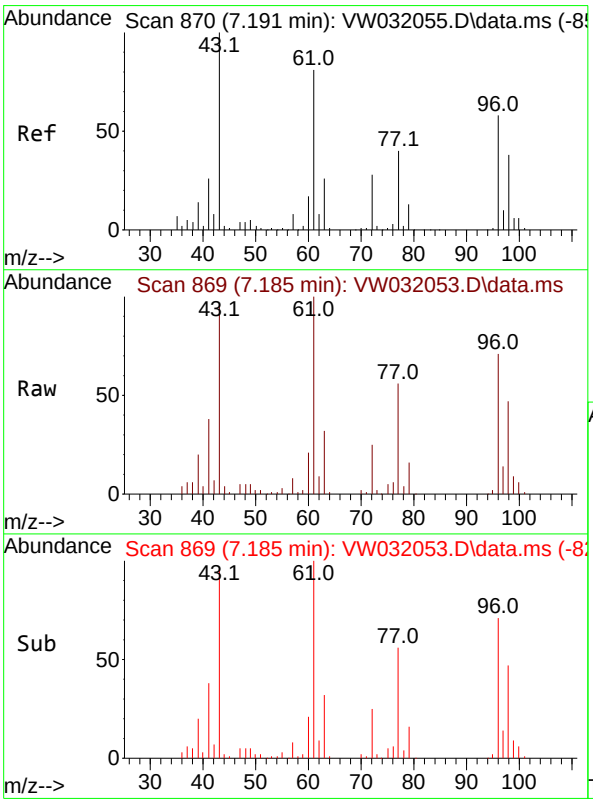
#25
2-Butanone
Concen: 50.685 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 54327

Ion	Ratio	Lower	Upper
43	100		
72	27.1	22.3	33.5

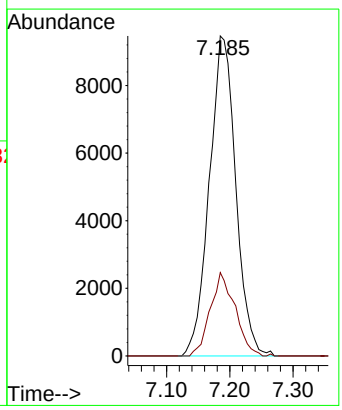


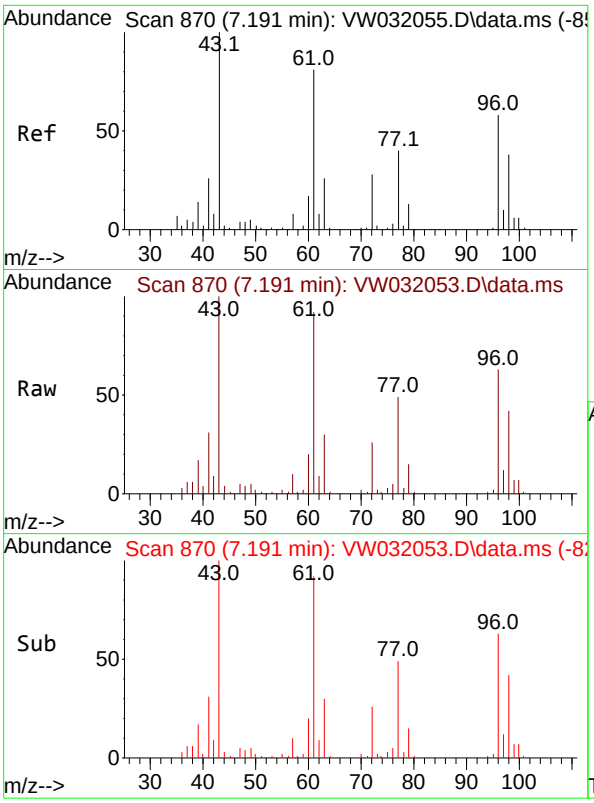


#26
2,2-Dichloropropane
Concen: 10.224 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 77 Resp: 27463

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9



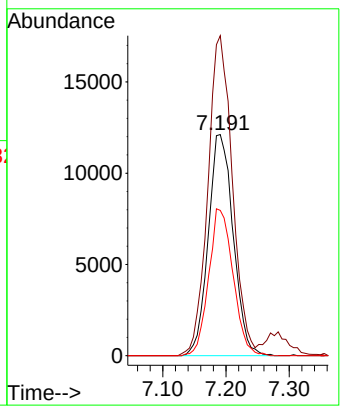


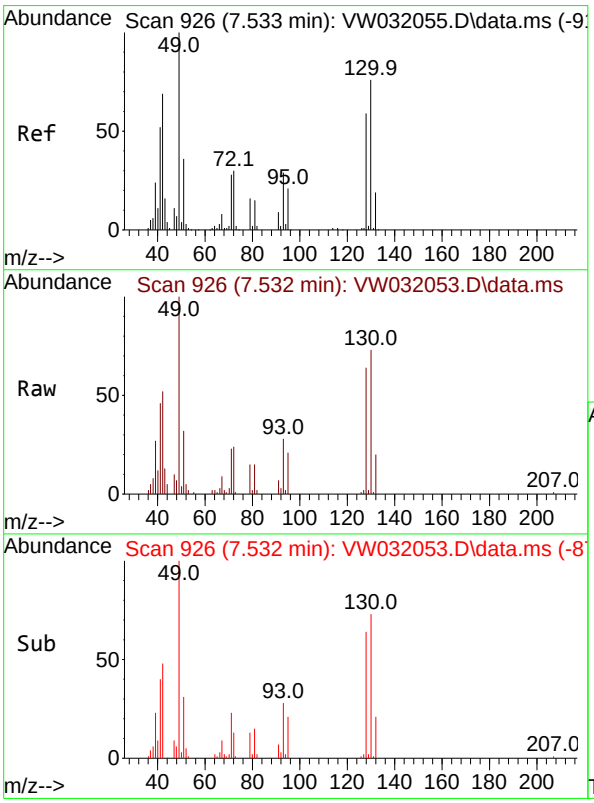
#27
cis-1,2-Dichloroethene
Concen: 9.791 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

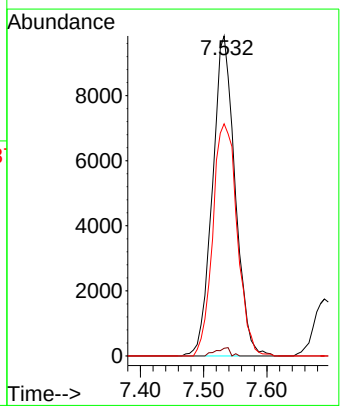


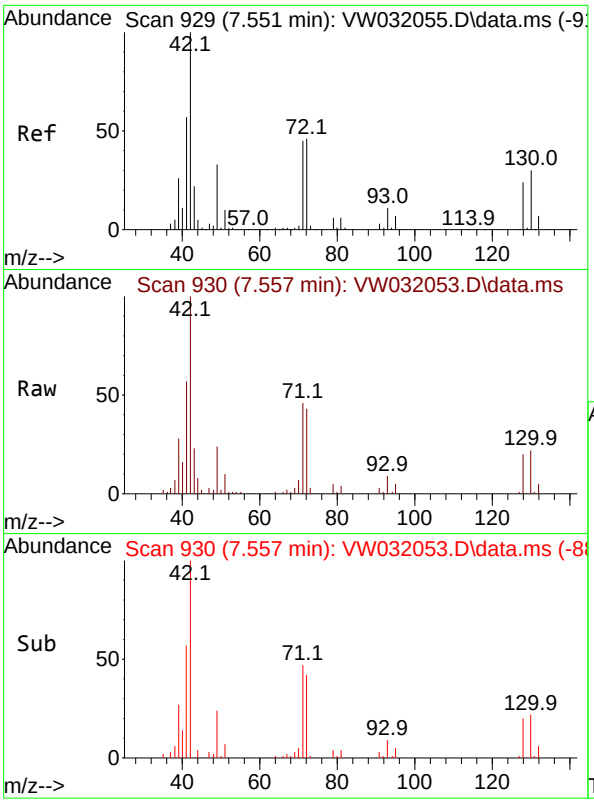


#28
Bromochloromethane
Concen: 10.019 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



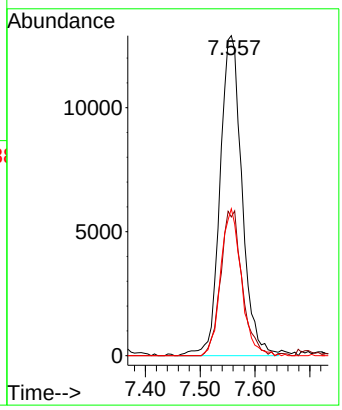


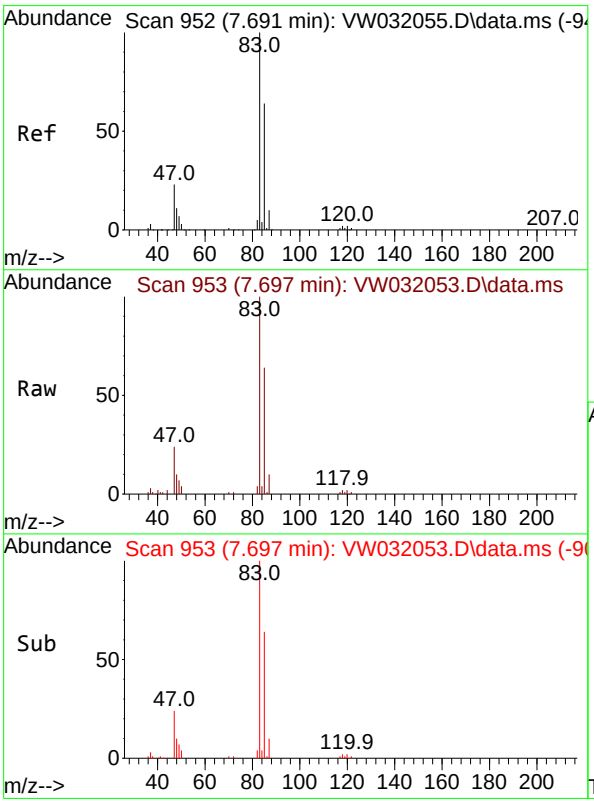
#29
Tetrahydrofuran
Concen: 50.800 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

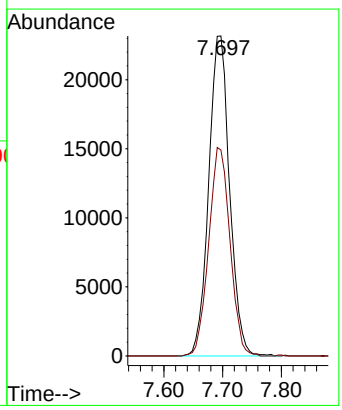


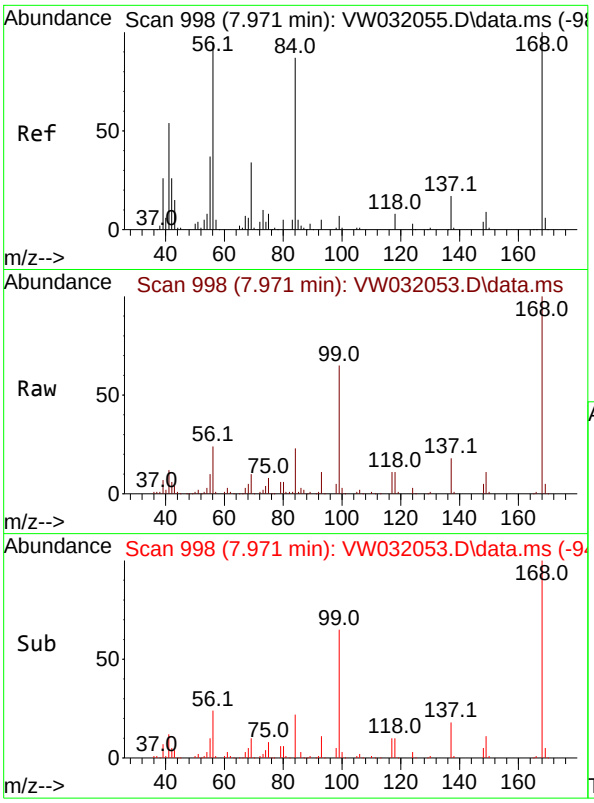


#30
Chloroform
Concen: 10.071 ug/l
RT: 7.697 min Scan# 953
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 57170

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.0	76.4



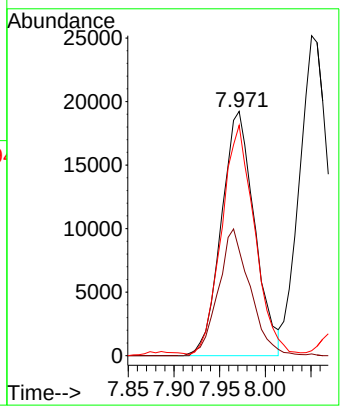


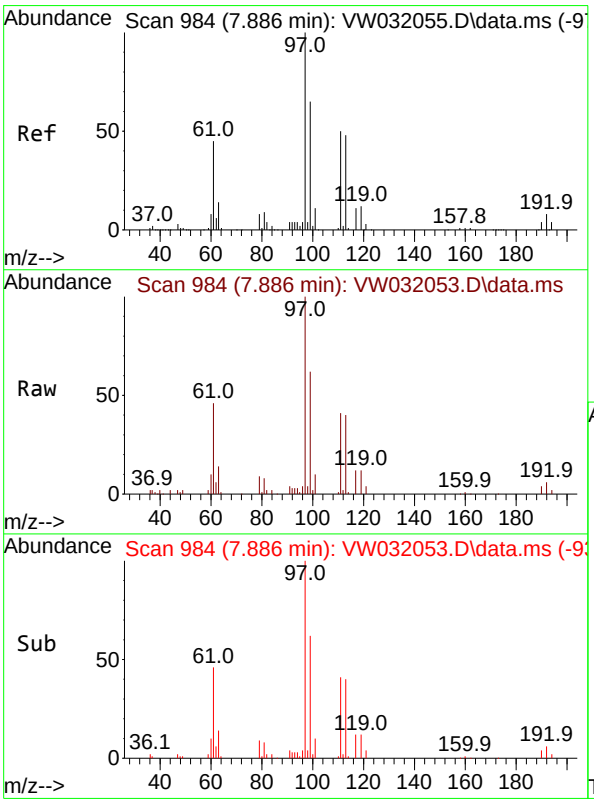
#31
Cyclohexane
Concen: 10.477 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

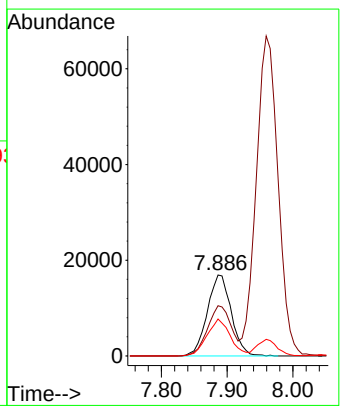


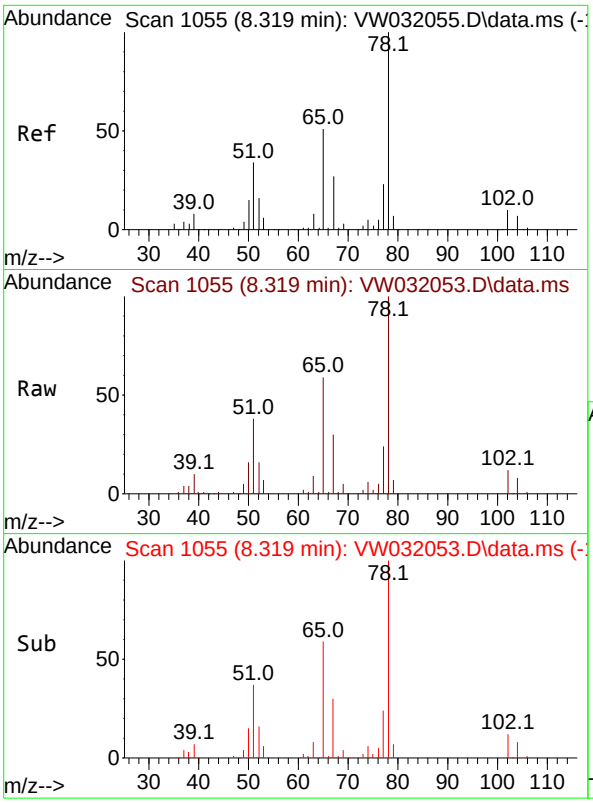


#32
1,1,1-Trichloroethane
Concen: 10.368 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



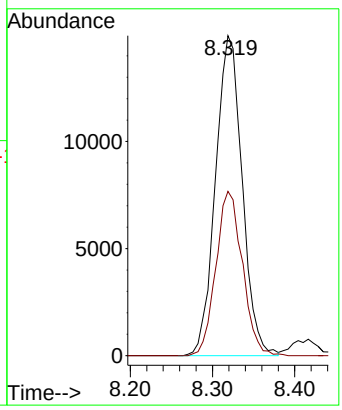


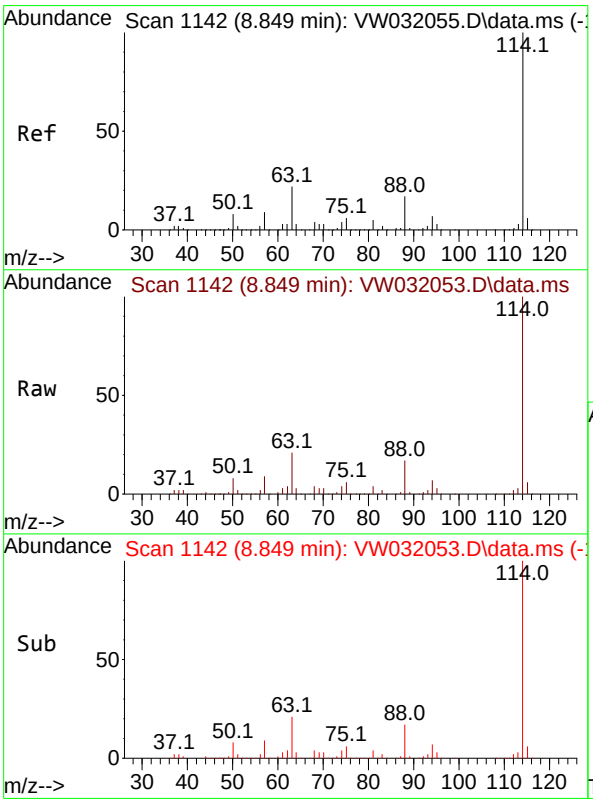
#33
1,2-Dichloroethane-d4
Concen: 10.337 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 33671

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

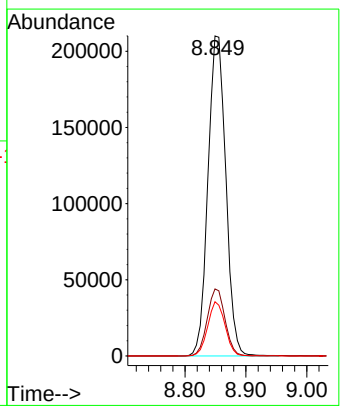


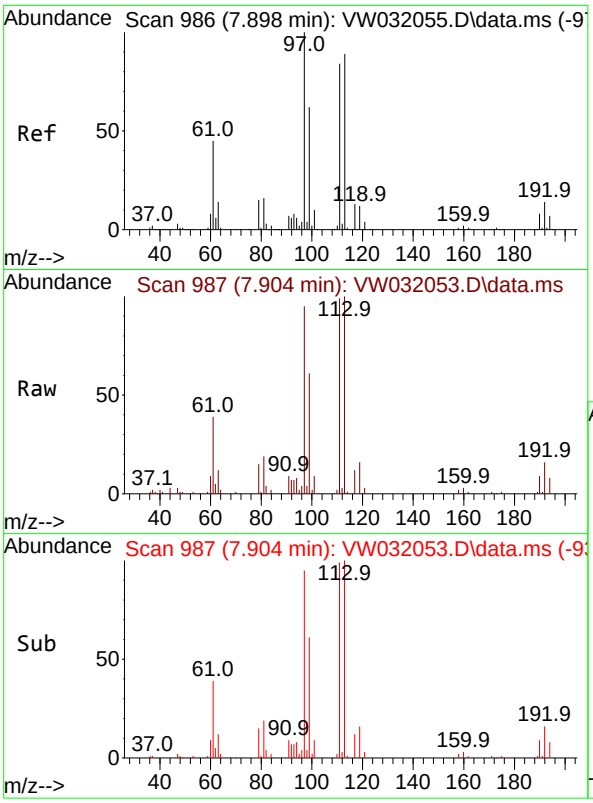


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



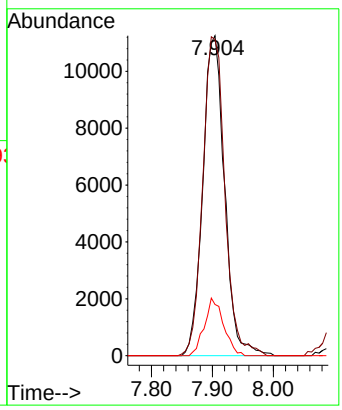


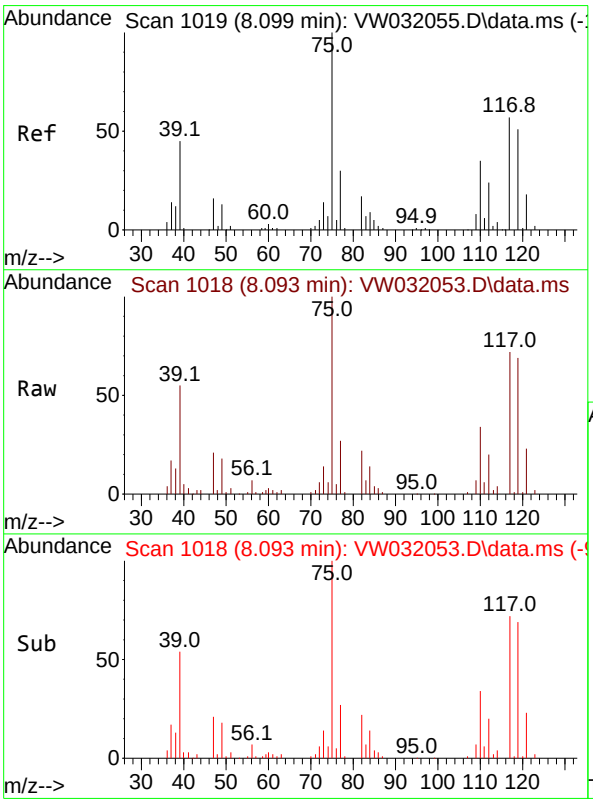
#35
Dibromofluoromethane
Concen: 10.147 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

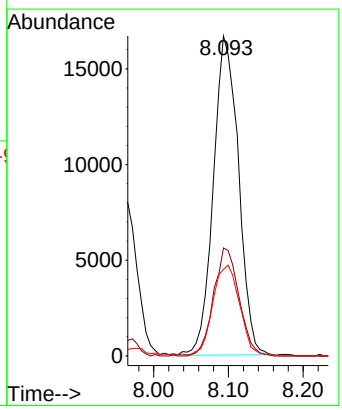


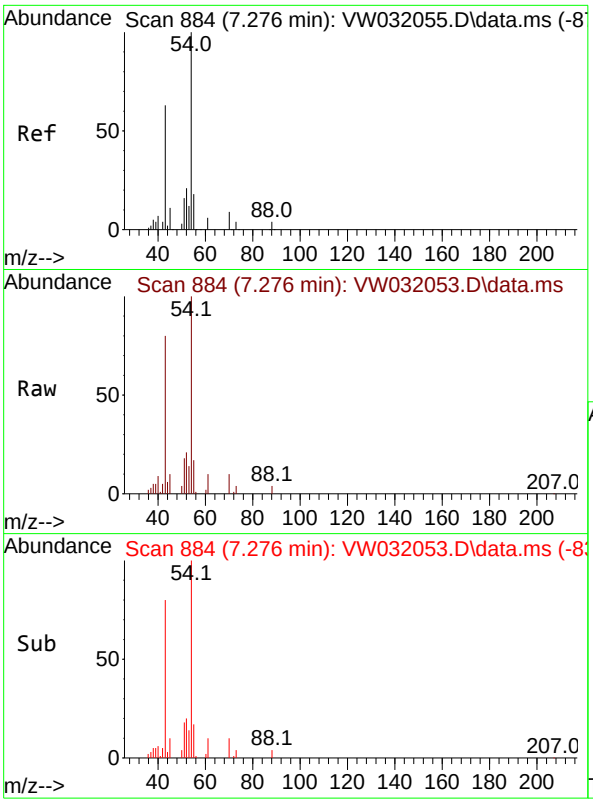


#36
1,1-Dichloropropene
Concen: 10.032 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



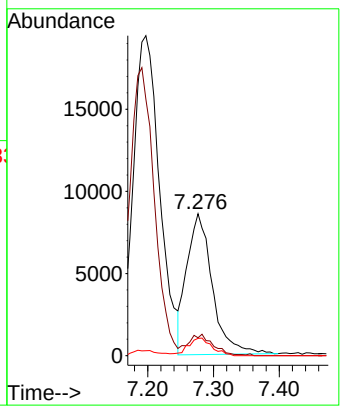


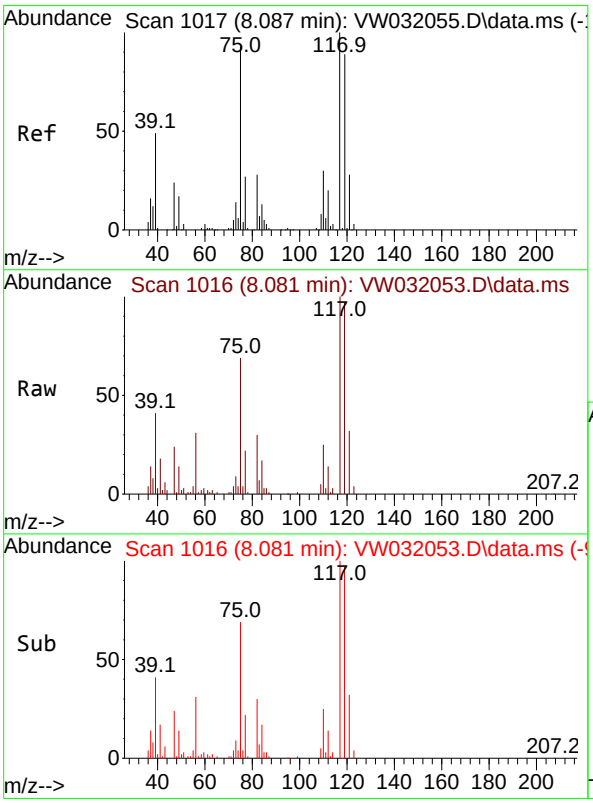
#37
Ethyl Acetate
Concen: 10.070 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

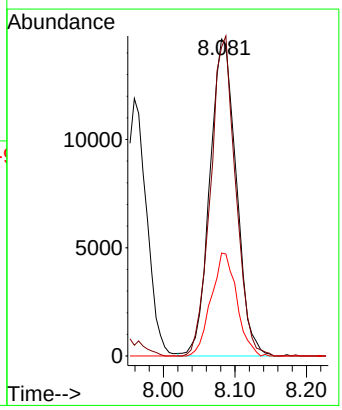


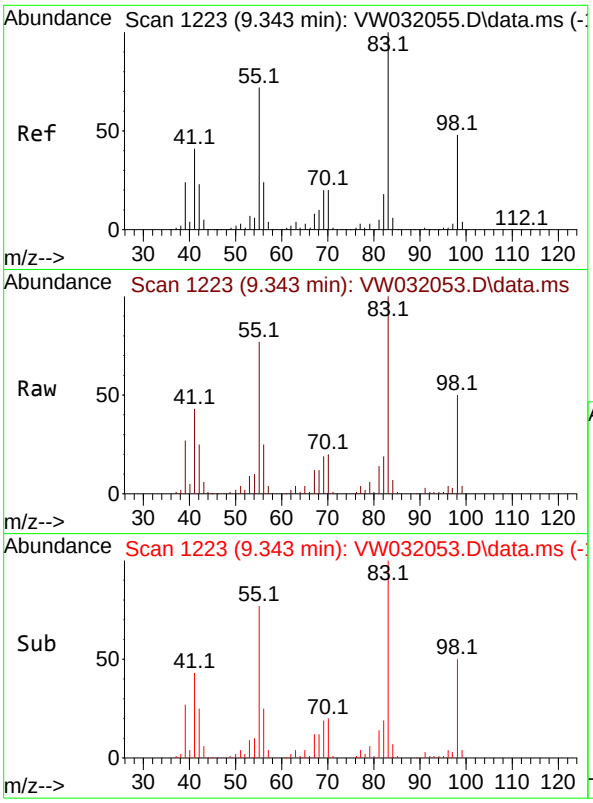


#38
Carbon Tetrachloride
Concen: 10.007 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



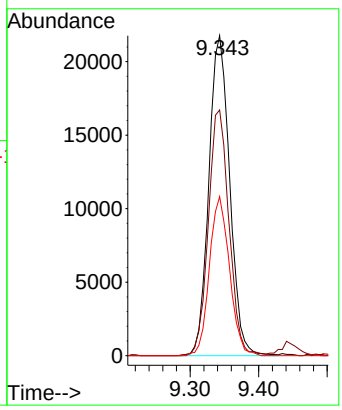


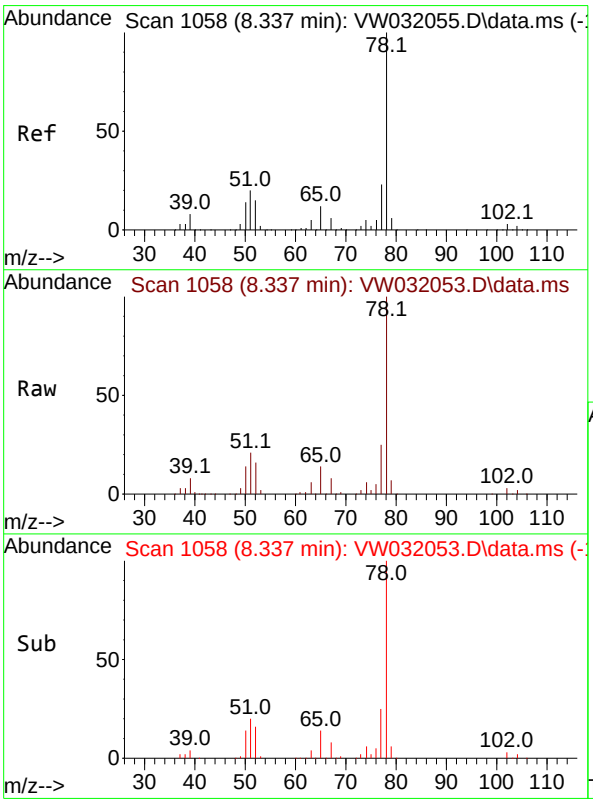
#39
Methylcyclohexane
Concen: 9.731 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

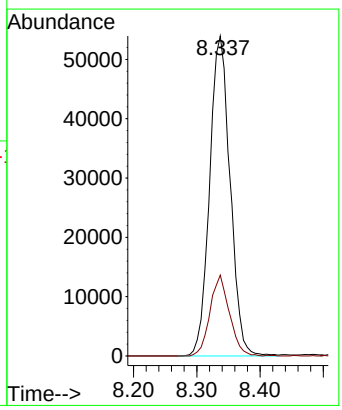


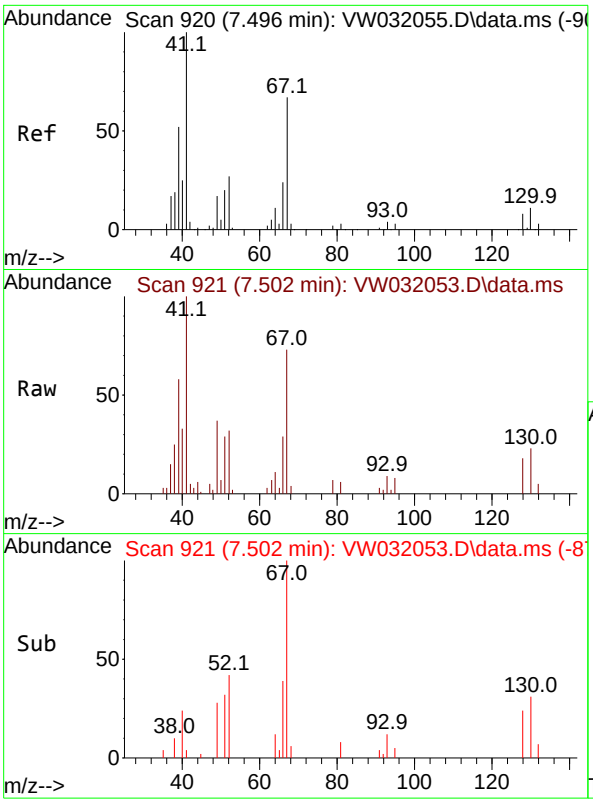


#40
Benzene
Concen: 10.053 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 78 Resp: 121462

Ion	Ratio	Lower	Upper
78	100		
77	25.3	18.4	27.6



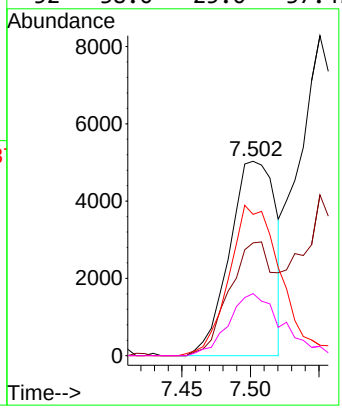


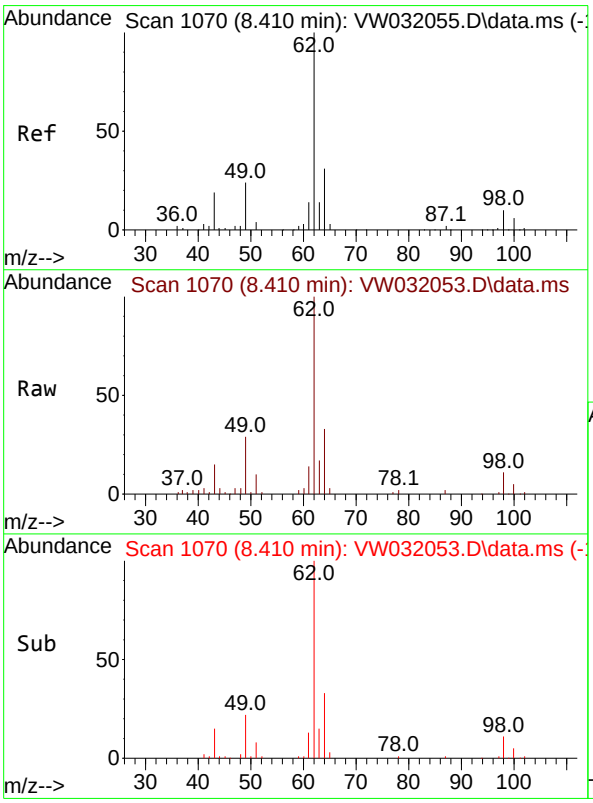
#41
Methacrylonitrile
Concen: 9.035 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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#

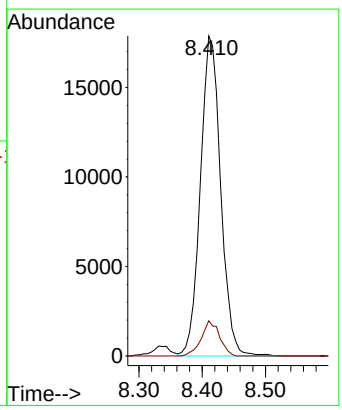


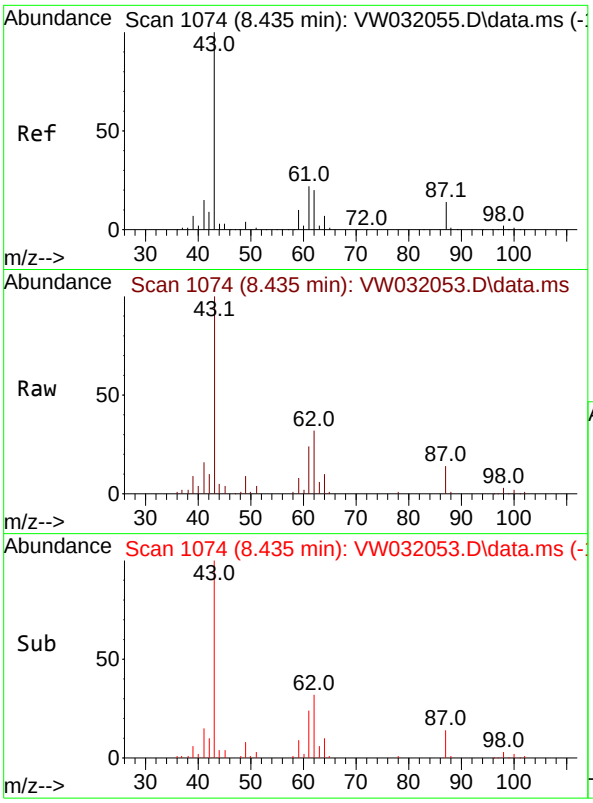


#42
1,2-Dichloroethane
Concen: 10.316 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 39882

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8



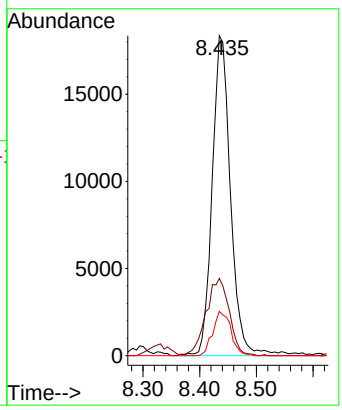


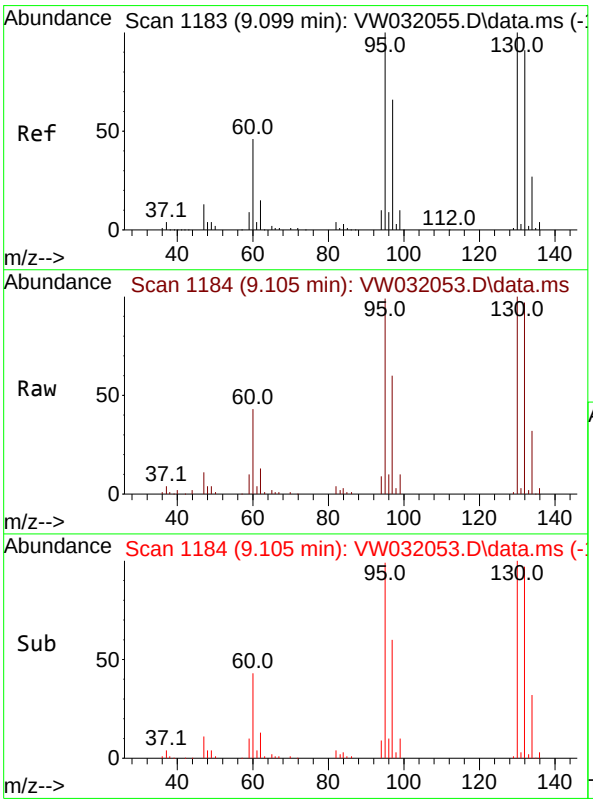
#43
Isopropyl Acetate
Concen: 9.743 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

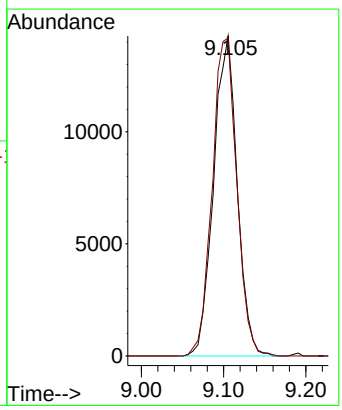


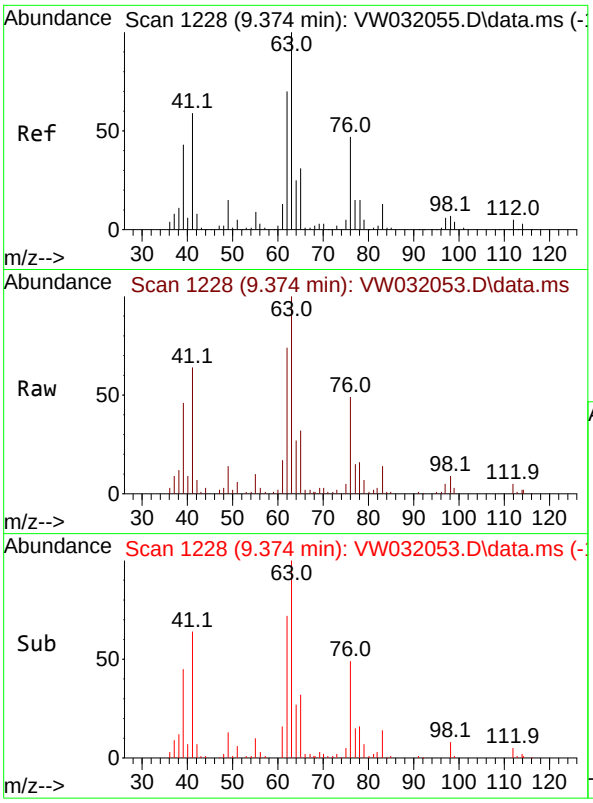


#44
Trichloroethene
Concen: 9.905 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:130 Resp: 28498

Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	200.6



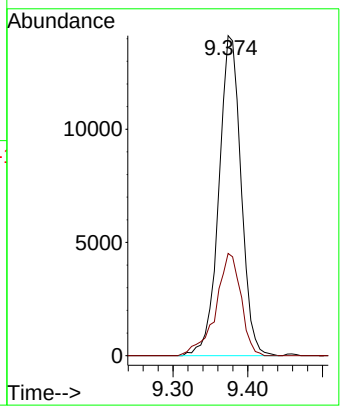


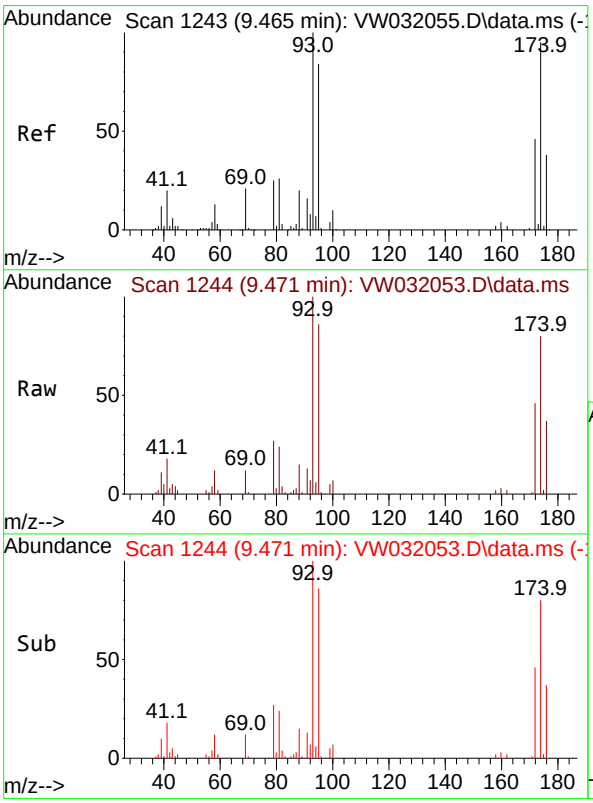
#45
1,2-Dichloropropane
Concen: 10.004 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 29199

Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.6	36.8

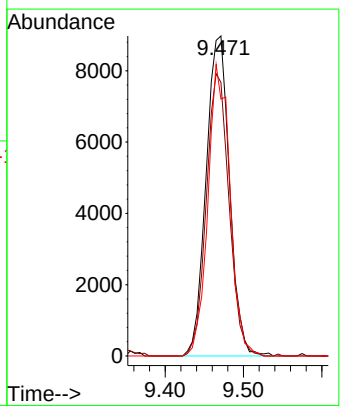


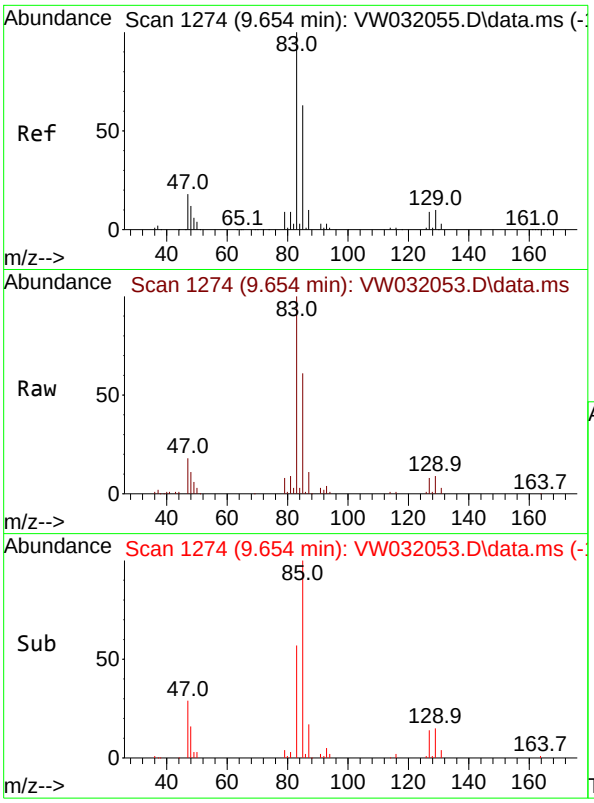


#46
Dibromomethane
Concen: 9.901 ug/l
RT: 9.471 min Scan# 1244
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



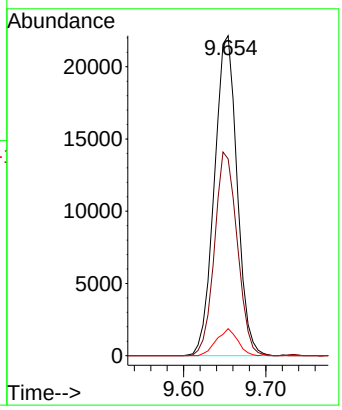


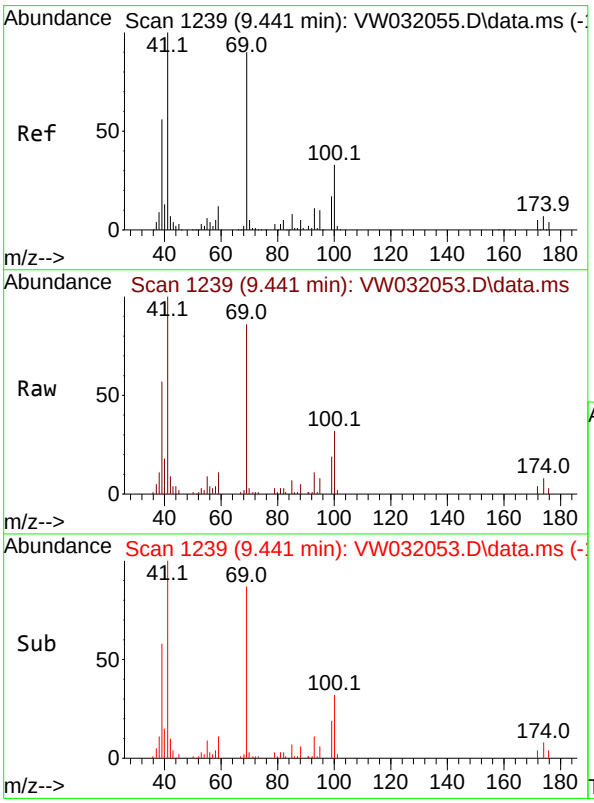
#47
Bromodichloromethane
Concen: 9.818 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

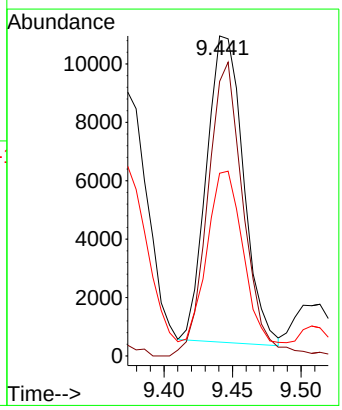


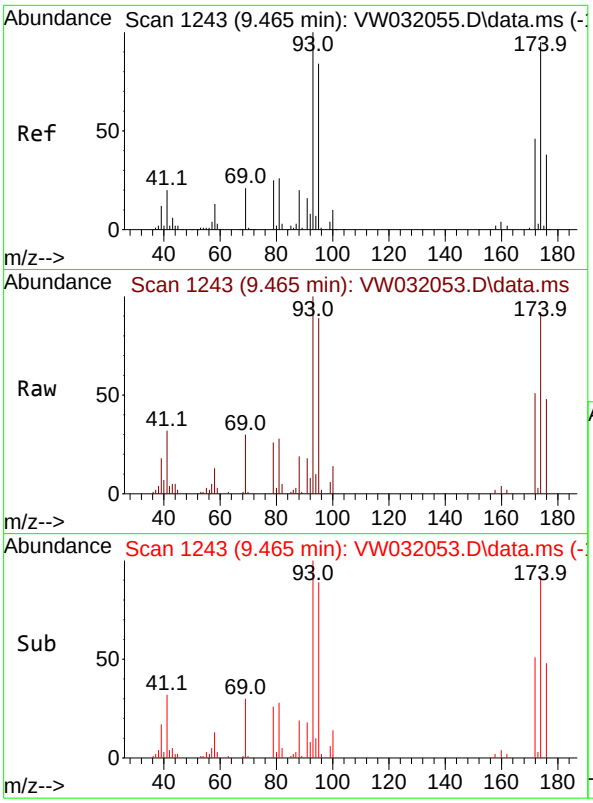


#48
Methyl methacrylate
Concen: 9.666 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



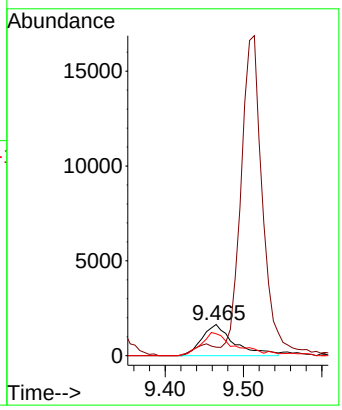


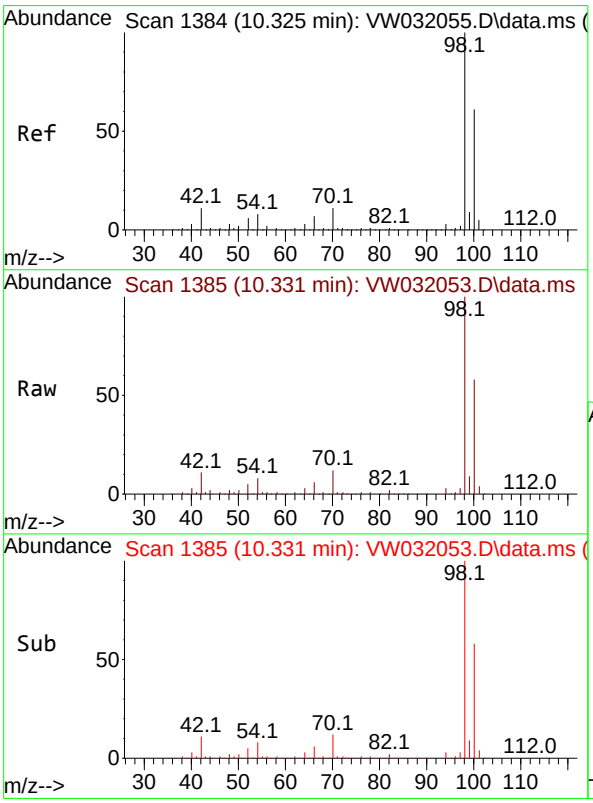
#49
1,4-Dioxane
Concen: 192.302 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

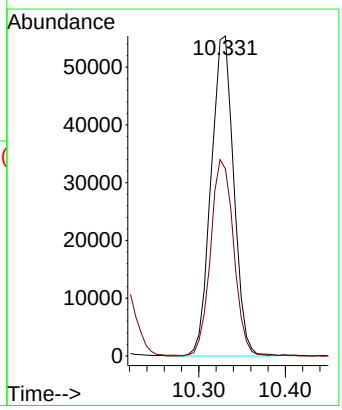


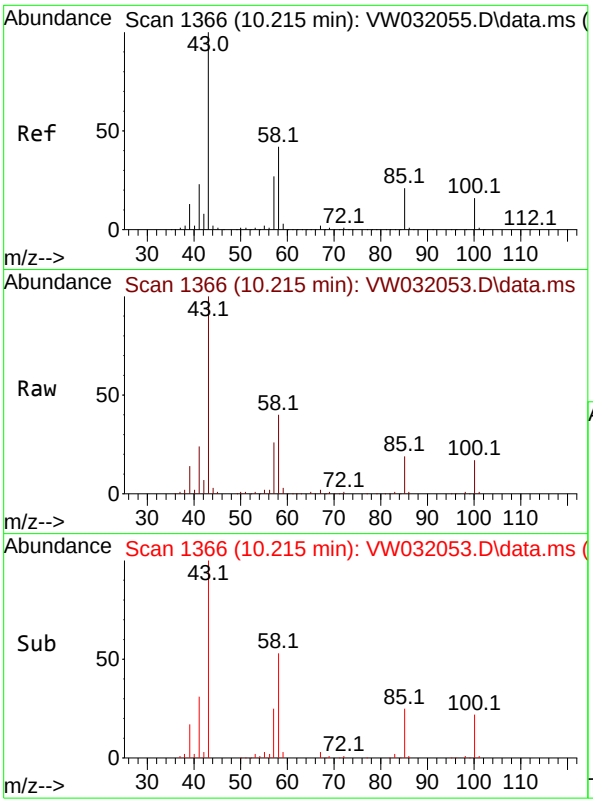


#50
Toluene-d8
Concen: 9.875 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 98 Resp: 100702

Ion	Ratio	Lower	Upper
98	100		
100	62.7	51.1	76.7



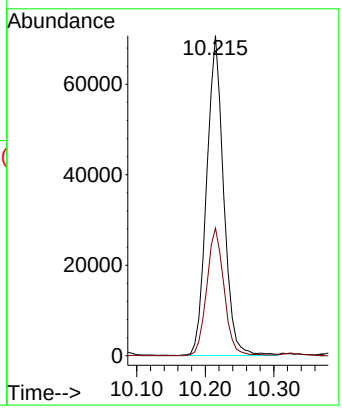


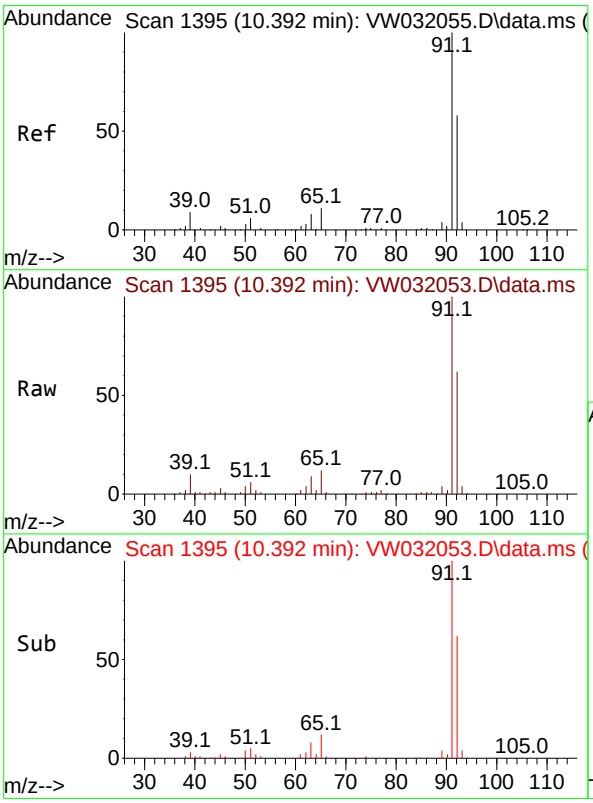
#51
4-Methyl-2-Pentanone
Concen: 51.075 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 121419

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.1	49.7

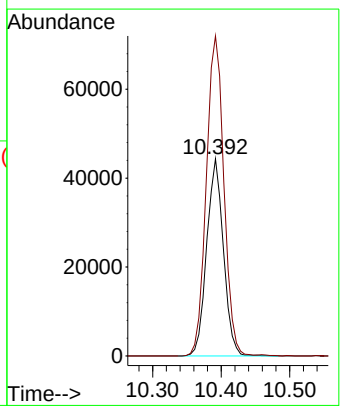


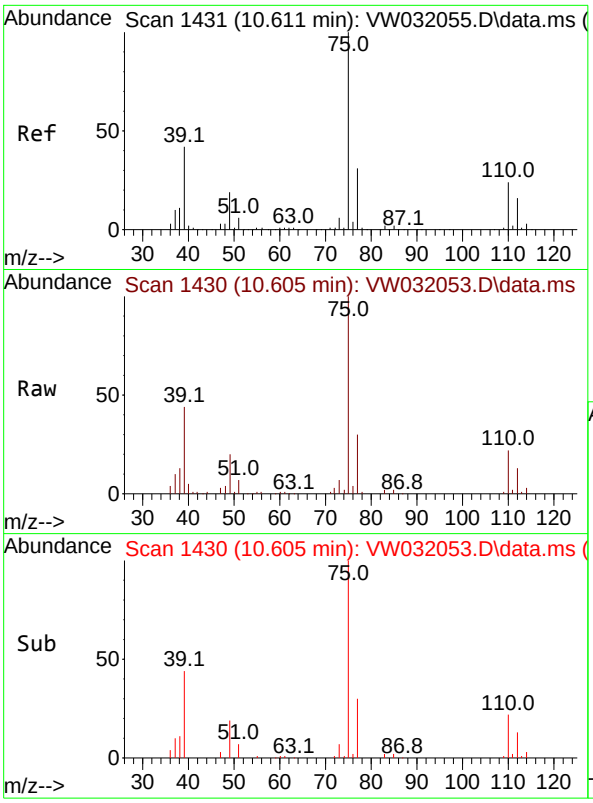


#52
Toluene
Concen: 9.888 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 92 Resp: 75250

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.3	204.5



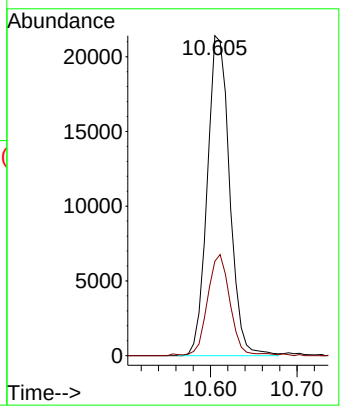


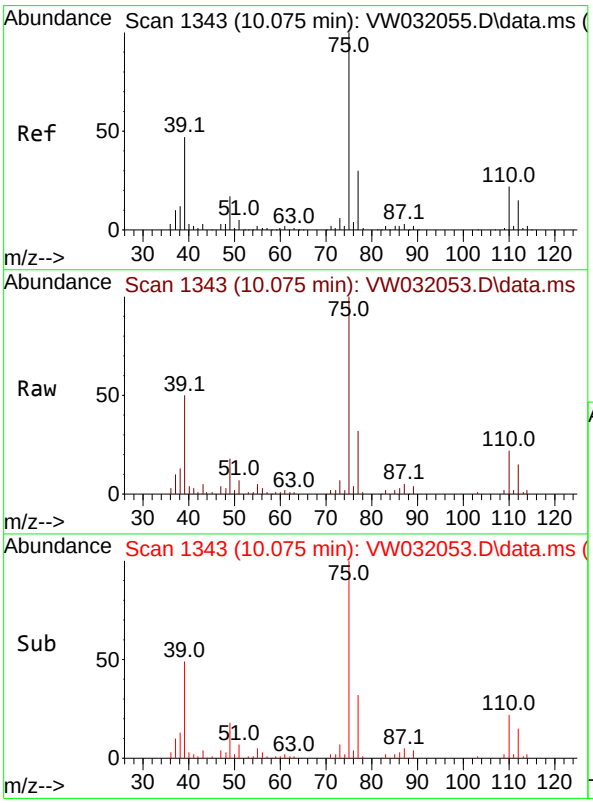
#53
t-1,3-Dichloropropene
Concen: 9.441 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 38397

Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.0	37.6

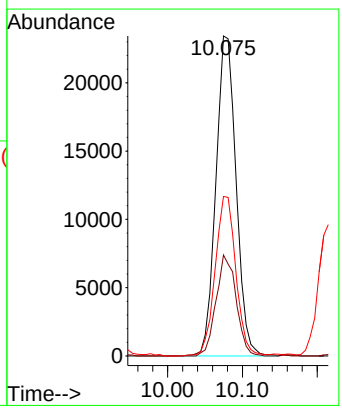


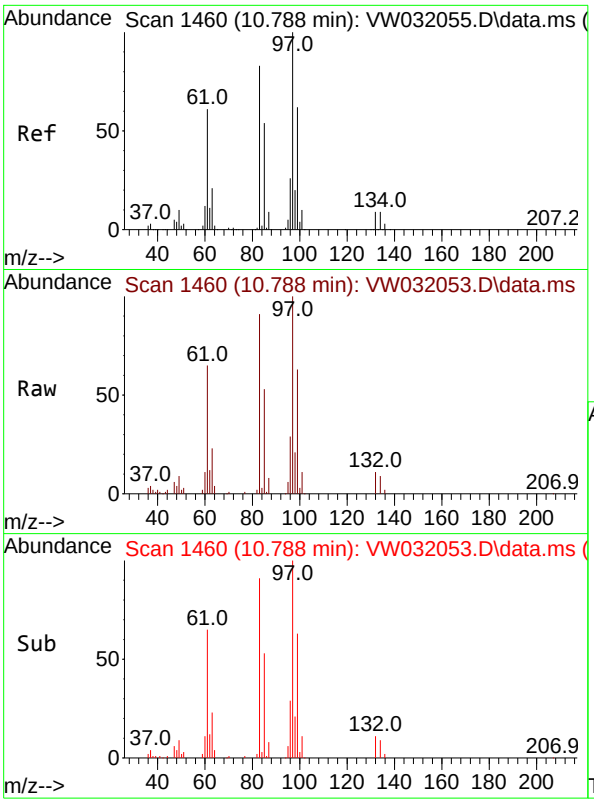


#54
cis-1,3-Dichloropropene
Concen: 9.543 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



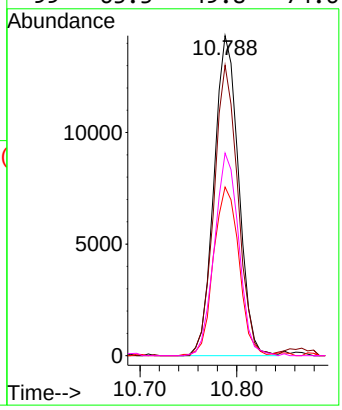


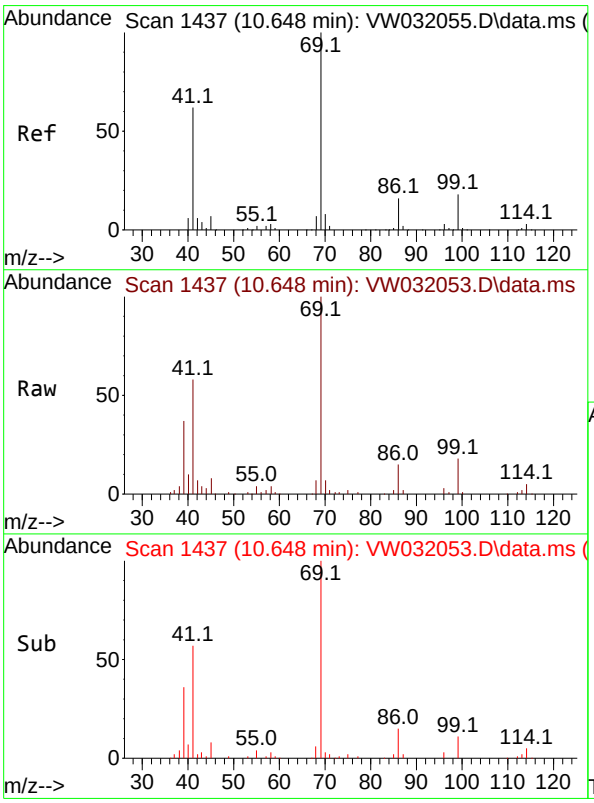
#55
1,1,2-Trichloroethane
Concen: 10.097 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

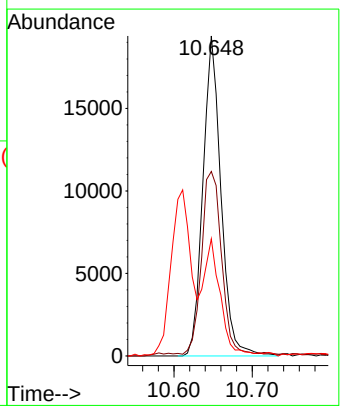


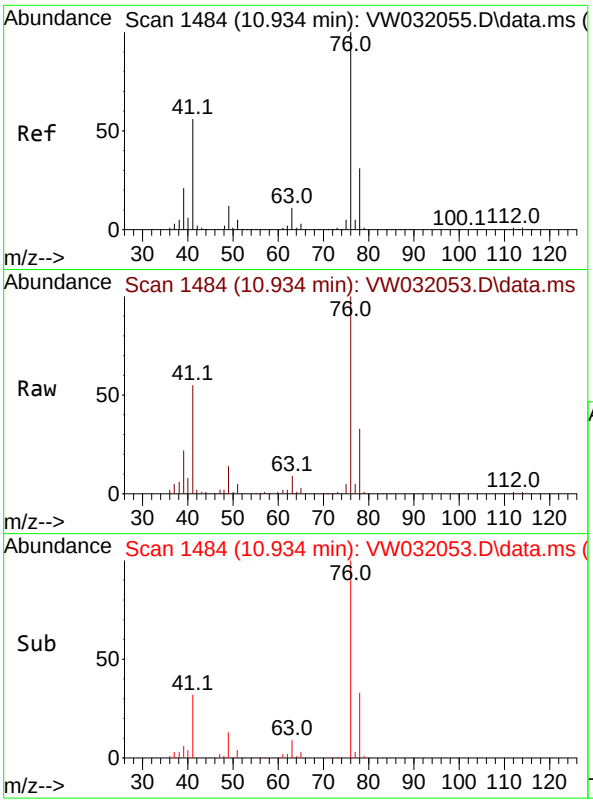


#56
Ethyl methacrylate
Concen: 9.260 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



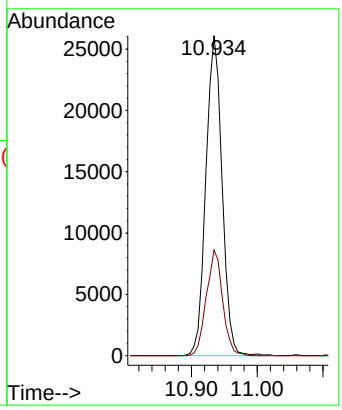


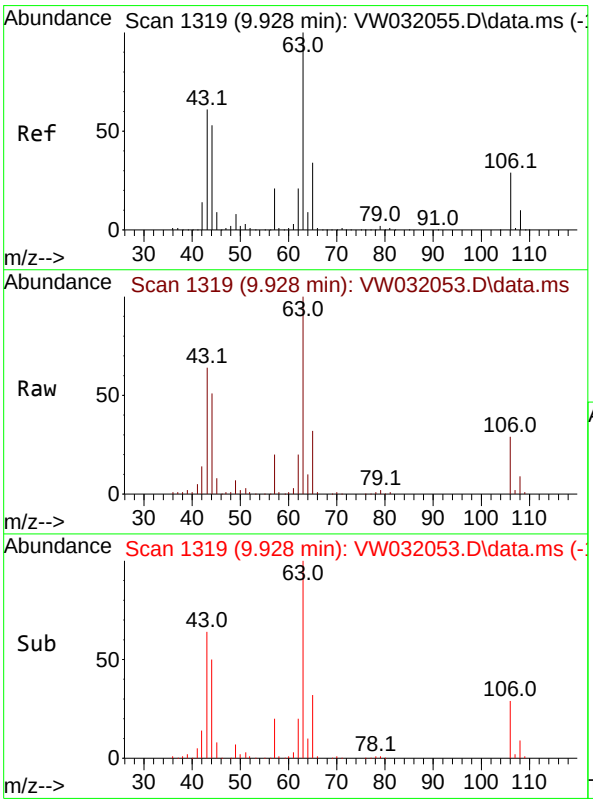
#57
1,3-Dichloropropane
Concen: 10.254 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 44743

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.6

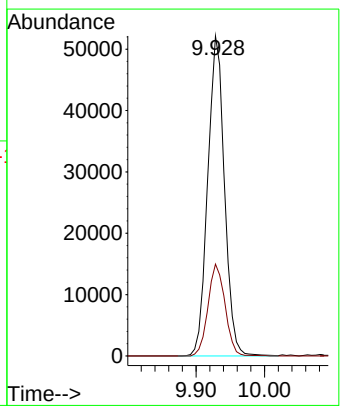


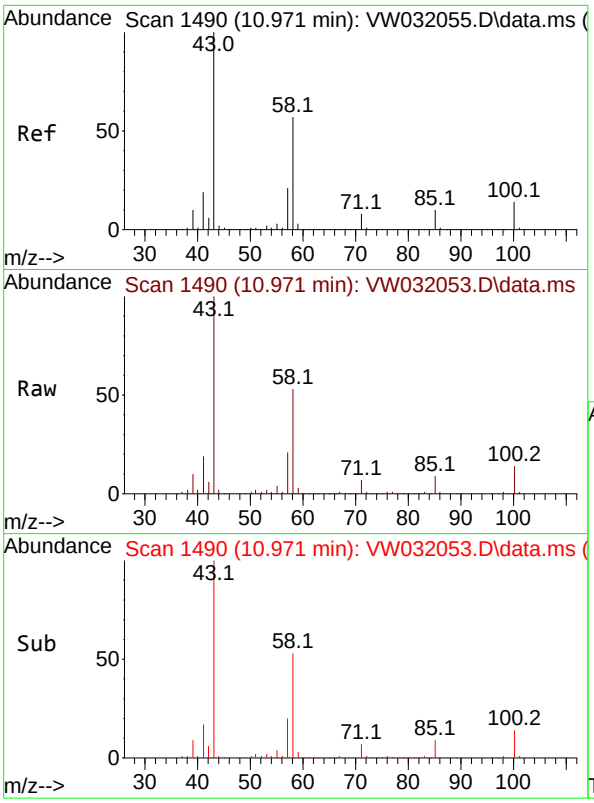


#58
2-Chloroethyl Vinyl ether
Concen: 47.830 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 88627

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.5	35.3



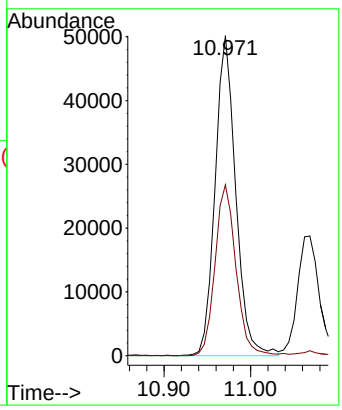


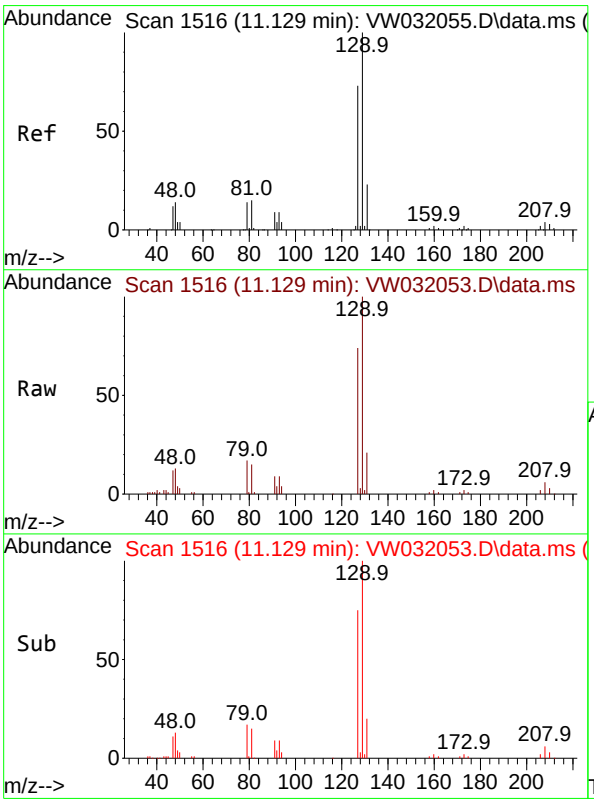
#59
2-Hexanone
Concen: 50.310 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 82830

Ion	Ratio	Lower	Upper
43	100		
58	54.2	28.3	85.0

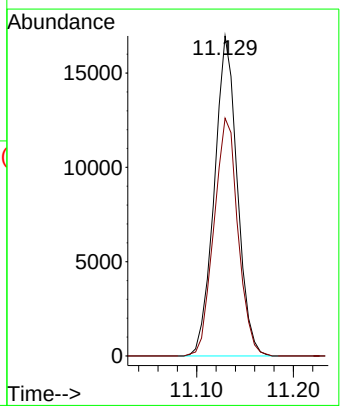


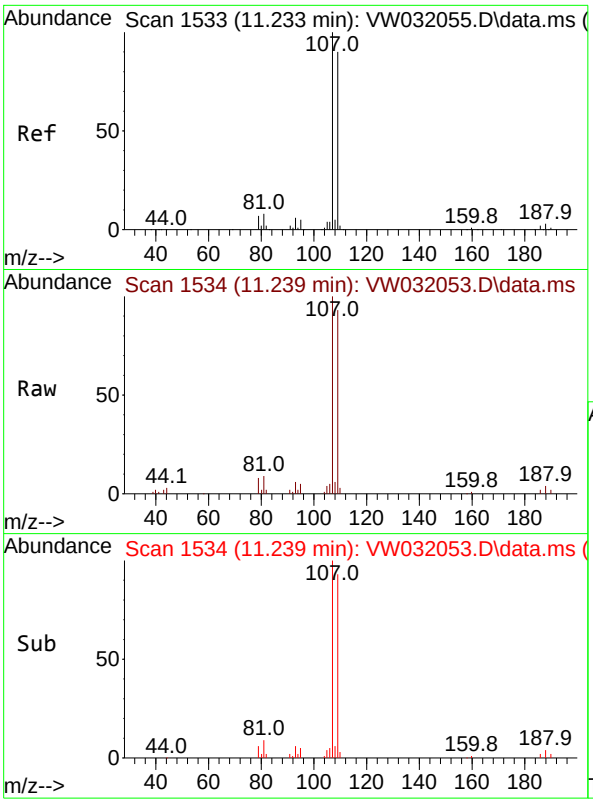


#60
Dibromochloromethane
Concen: 9.776 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:129 Resp: 27954

Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.0	116.9



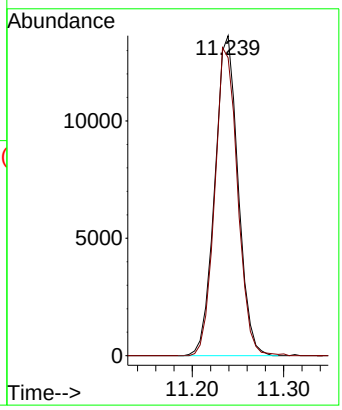


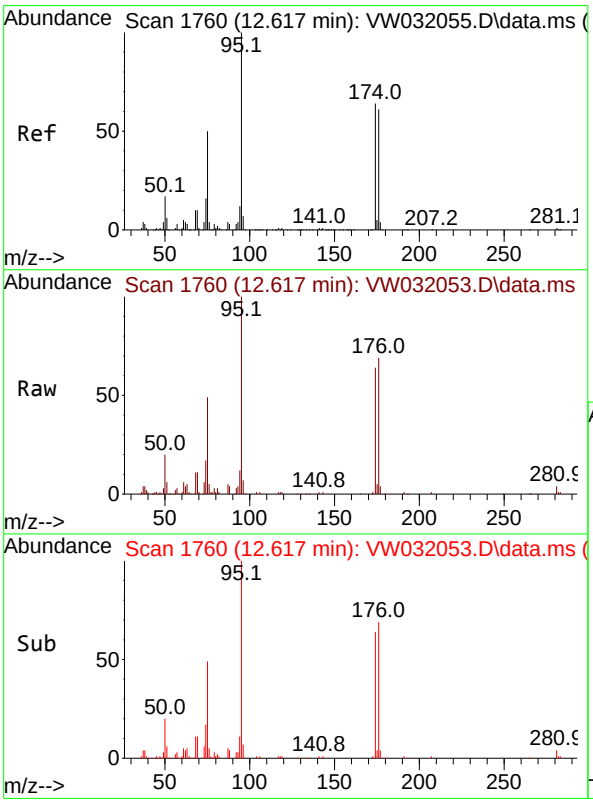
#61
1,2-Dibromoethane
Concen: 9.926 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 24146

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.2	111.4

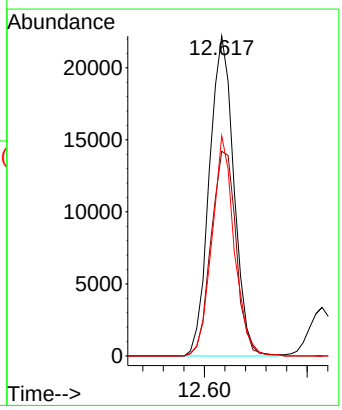


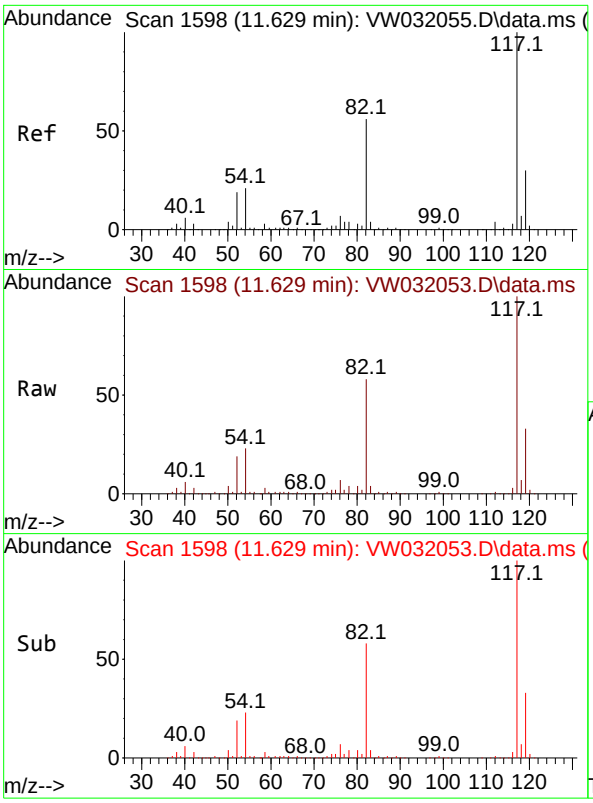


#62
4-Bromofluorobenzene
Concen: 9.778 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



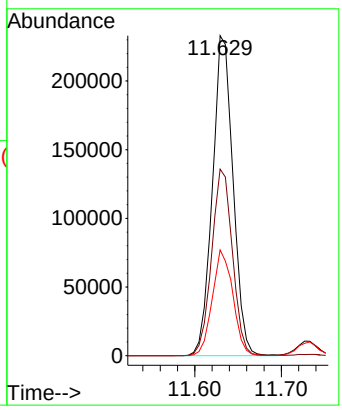


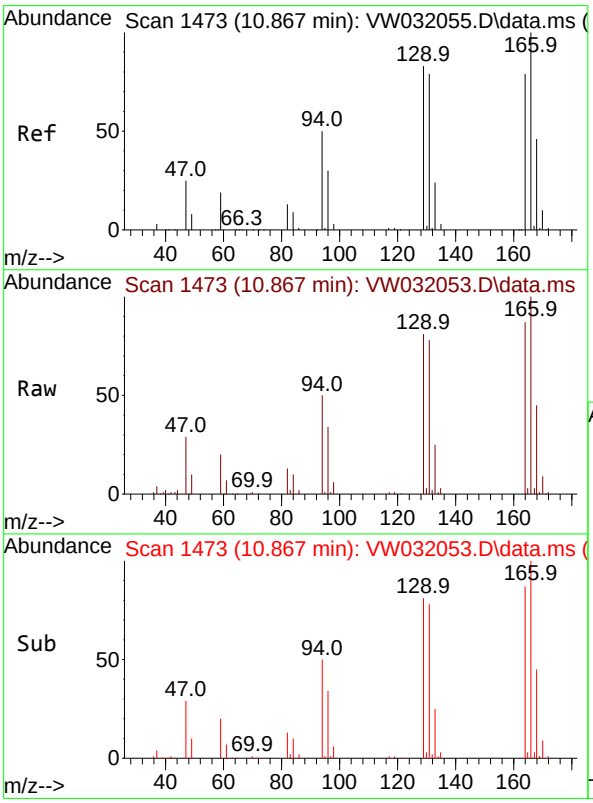
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

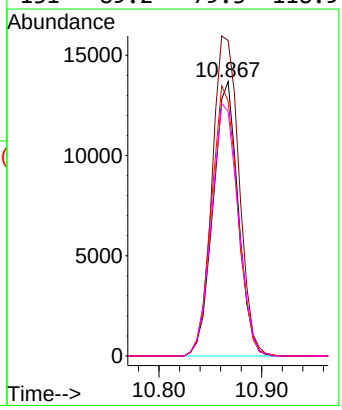


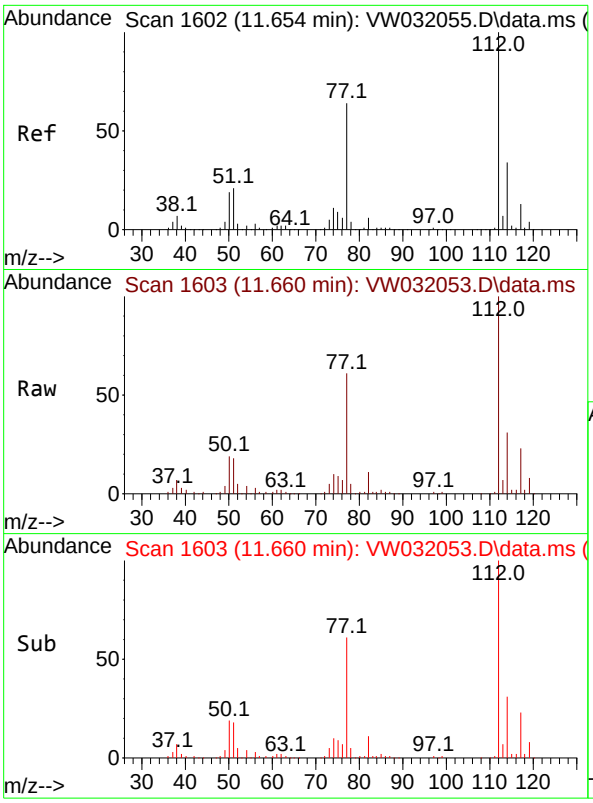


#64
Tetrachloroethene
Concen: 10.431 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



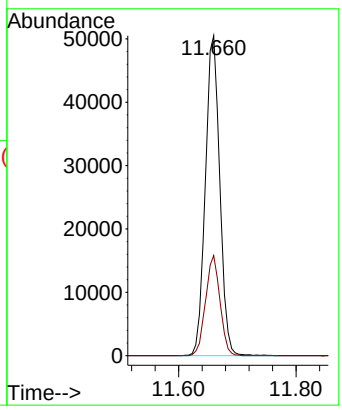


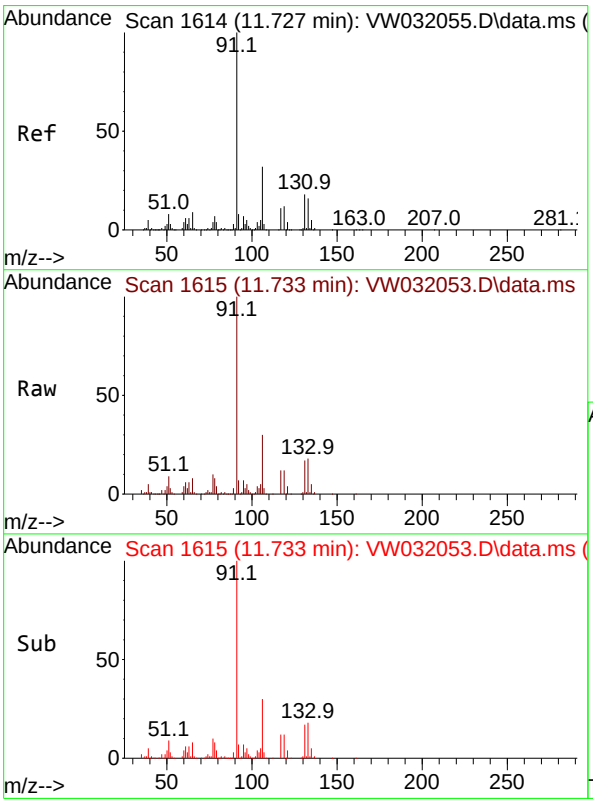
#65
Chlorobenzene
Concen: 10.257 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 86096

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.9	40.3

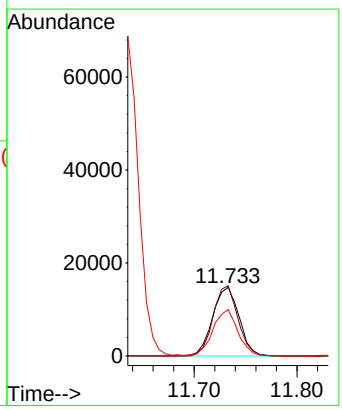


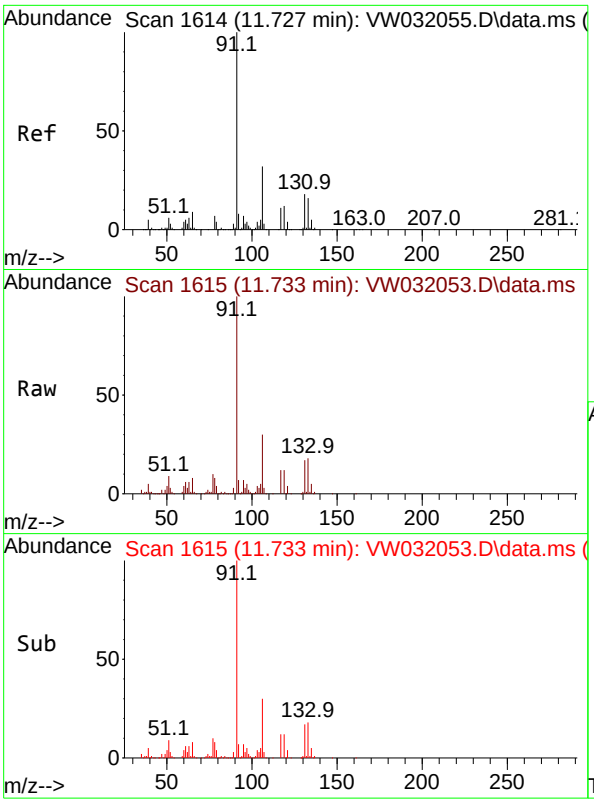


#66
1,1,1,2-Tetrachloroethane
Concen: 10.037 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



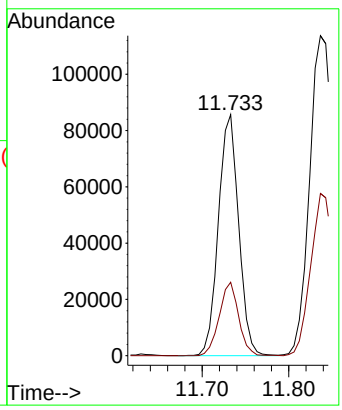


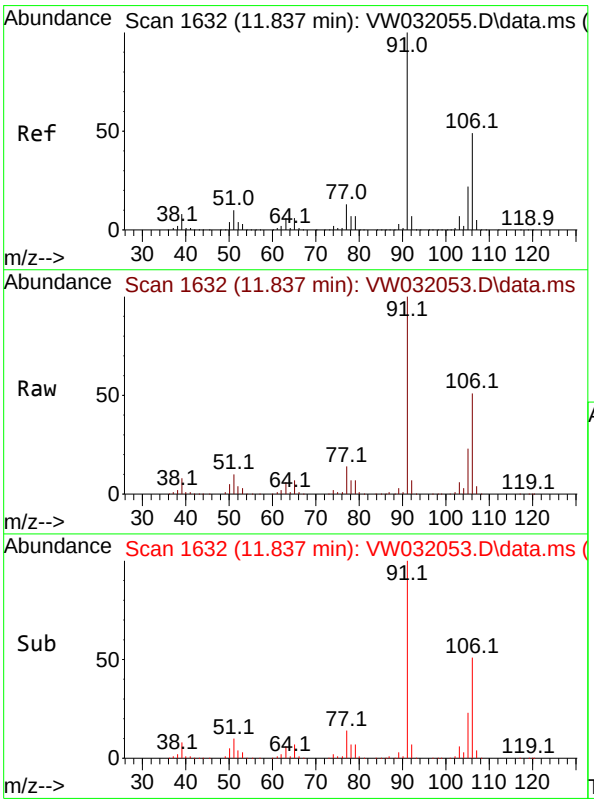
#67
Ethyl Benzene
Concen: 9.794 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 139254

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.0

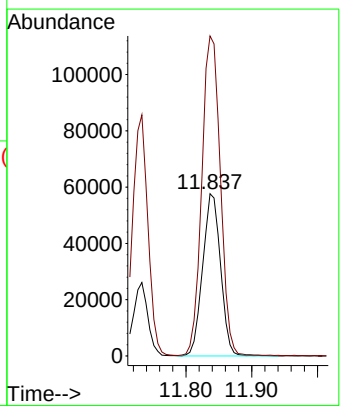


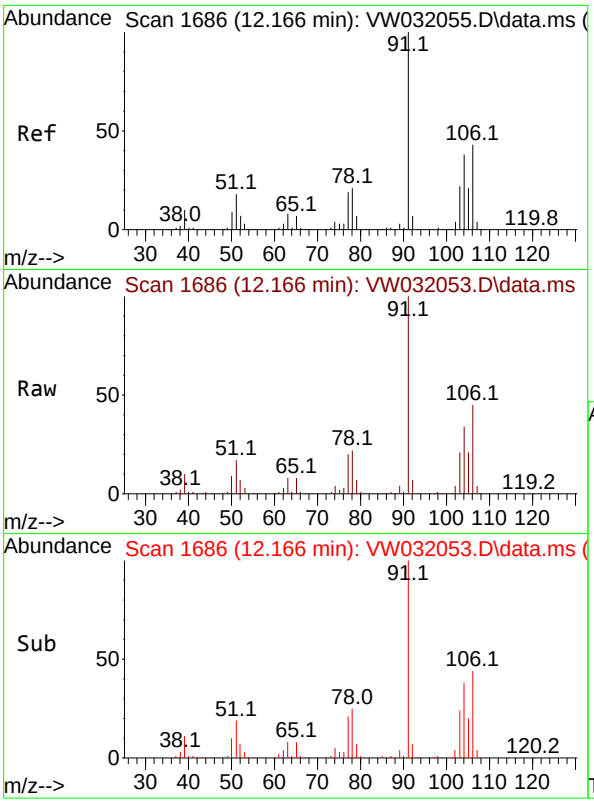


#68
m/p-Xylenes
Concen: 19.866 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 108990

Ion	Ratio	Lower	Upper
106	100		
91	205.0	162.2	243.2



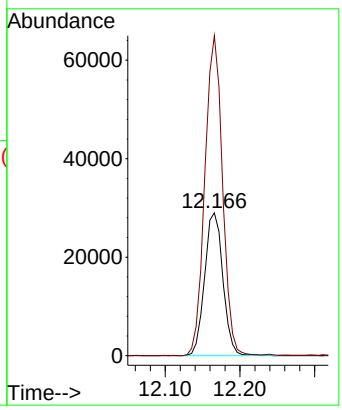


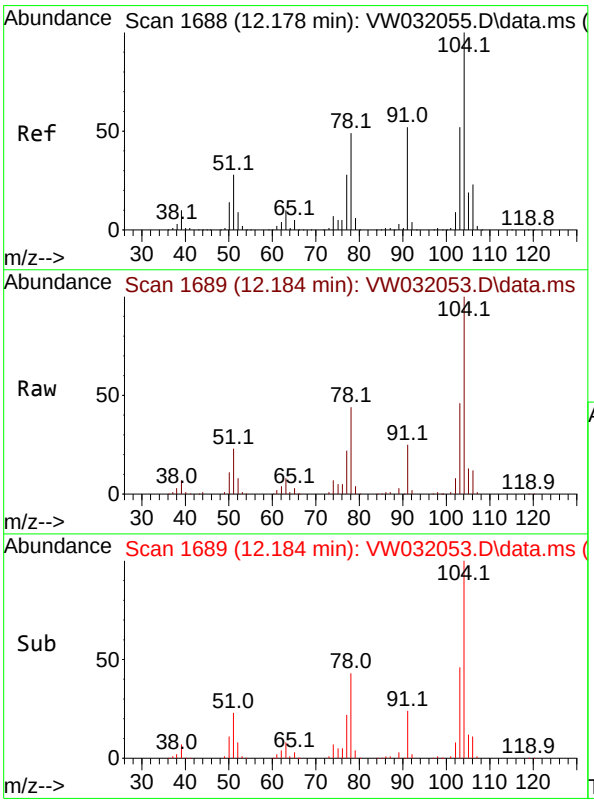
#69
o-Xylene
Concen: 9.714 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 49259

Ion	Ratio	Lower	Upper
106	100		
91	216.8	110.8	332.3

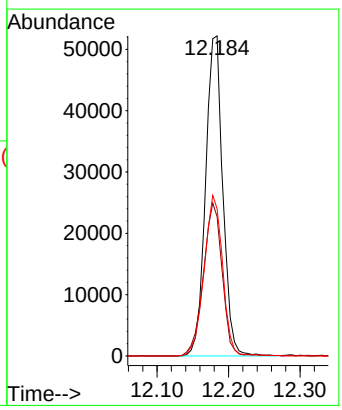


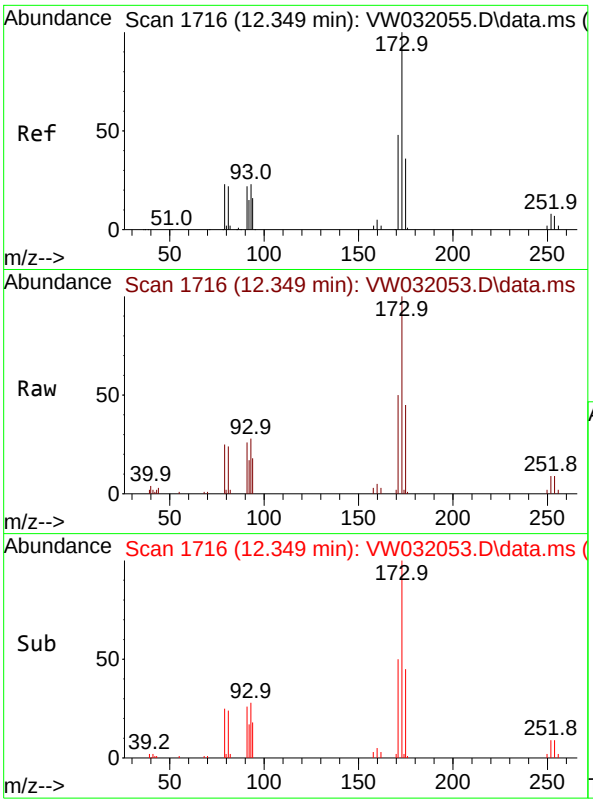


#70
Styrene
Concen: 9.719 ug/l
RT: 12.184 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



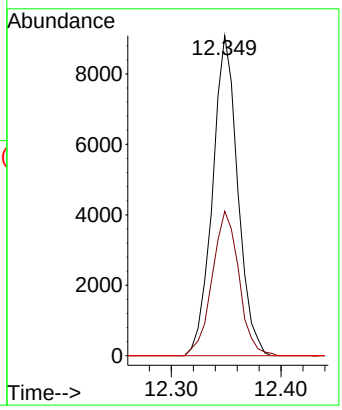


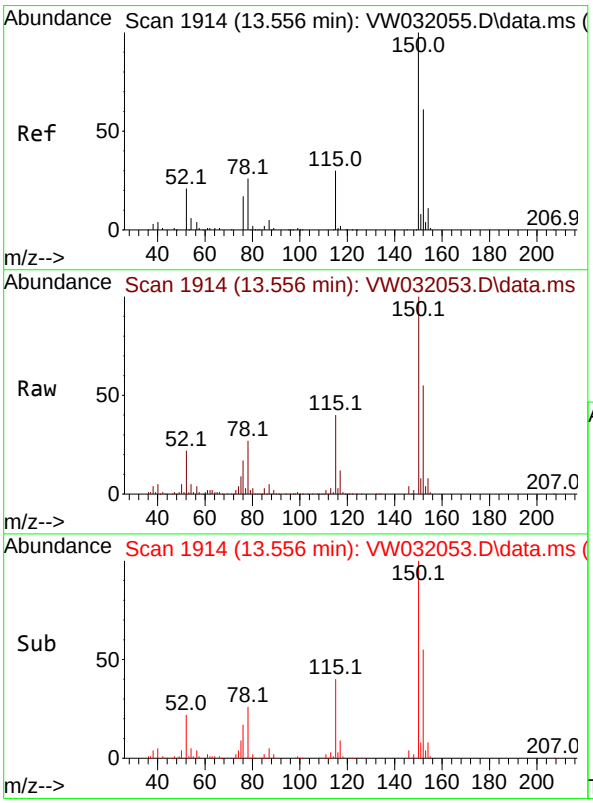
#71
Bromoform
Concen: 9.711 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

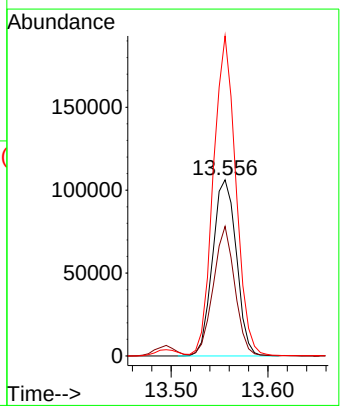


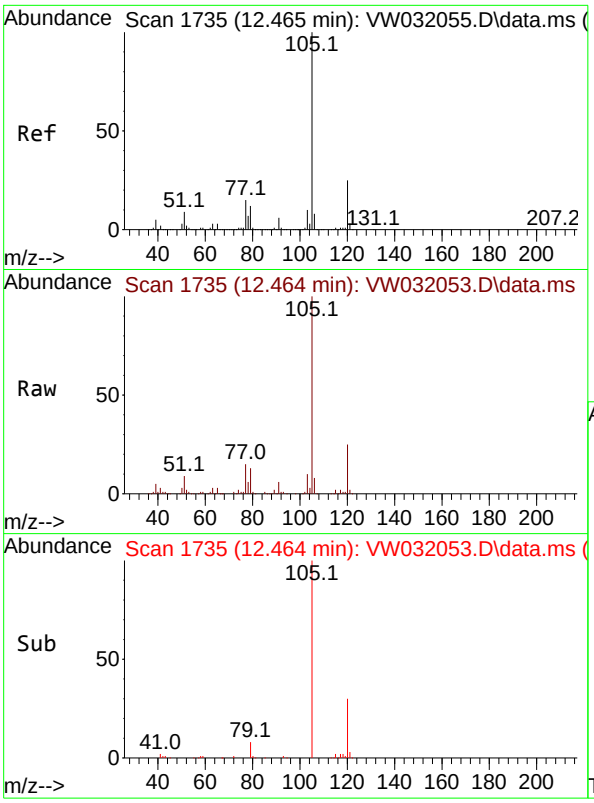


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



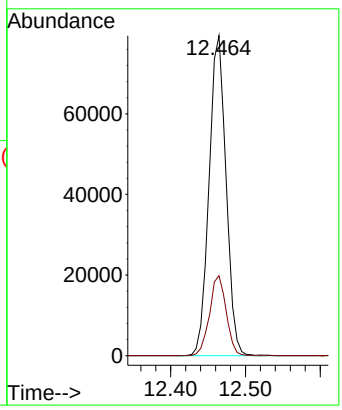


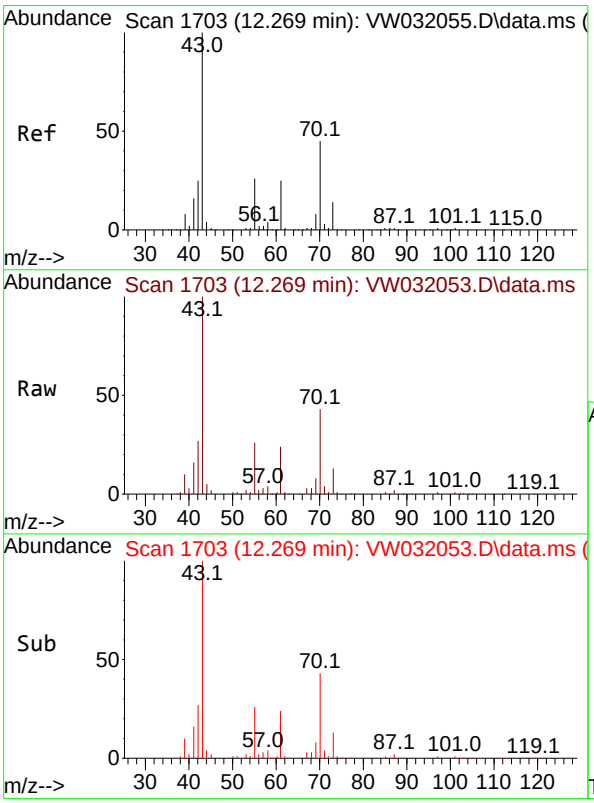
#73
Isopropylbenzene
Concen: 9.886 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 125246

Ion	Ratio	Lower	Upper
105	100		
120	24.6	12.8	38.4

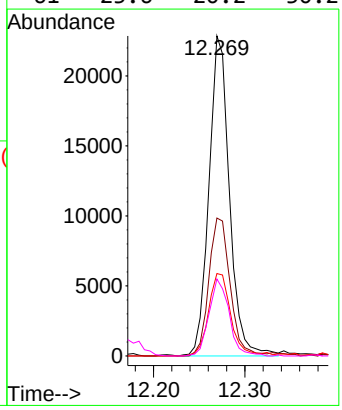


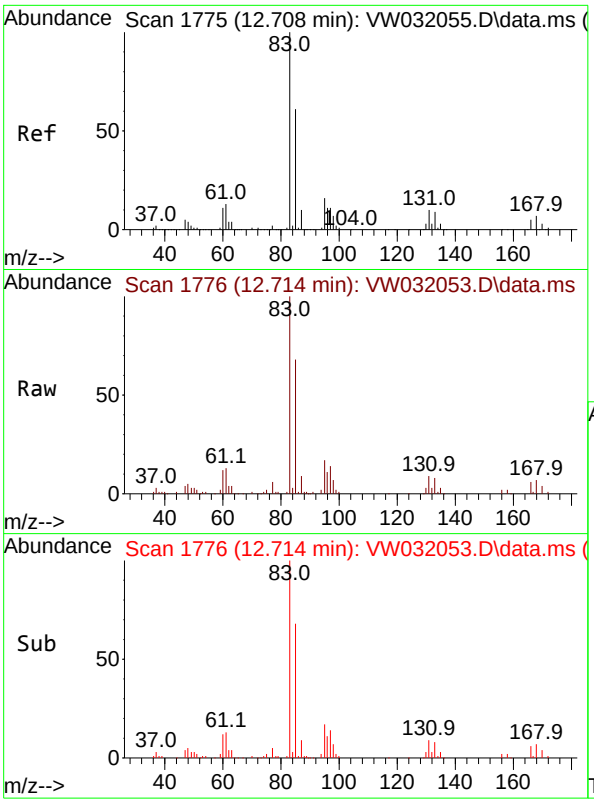


#74
N-amyl acetate
Concen: 9.804 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



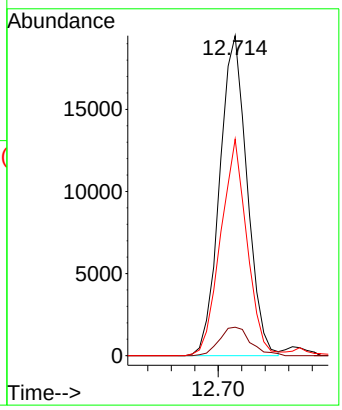


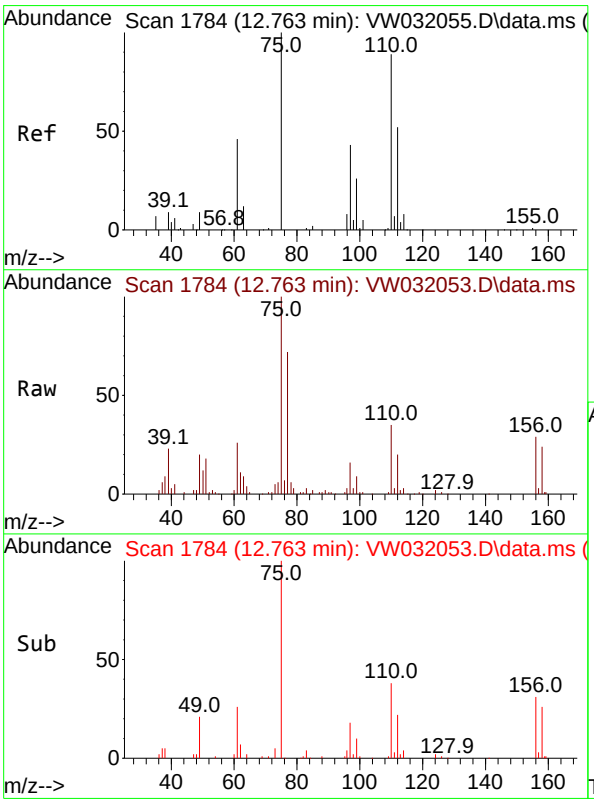
#75
1,1,2,2-Tetrachloroethane
Concen: 10.499 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

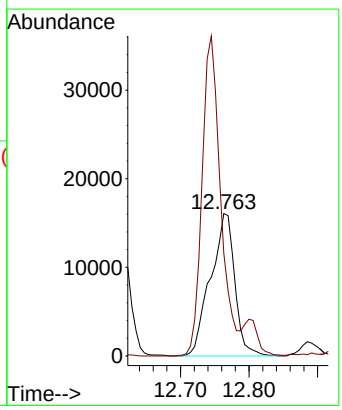


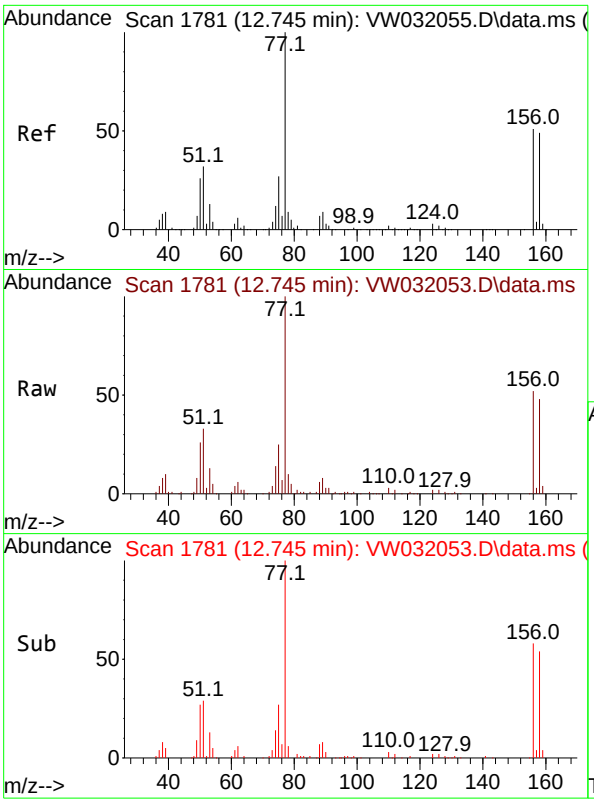


#76
1,2,3-Trichloropropane
Concen: 14.180 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 39515

Ion	Ratio	Lower	Upper
75	100		
77	173.7	123.5	370.5



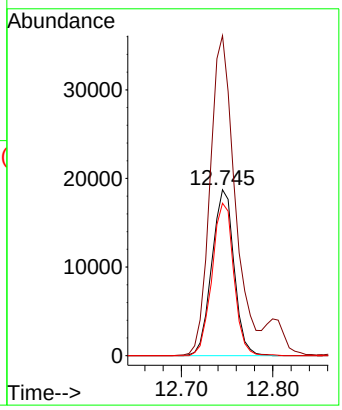


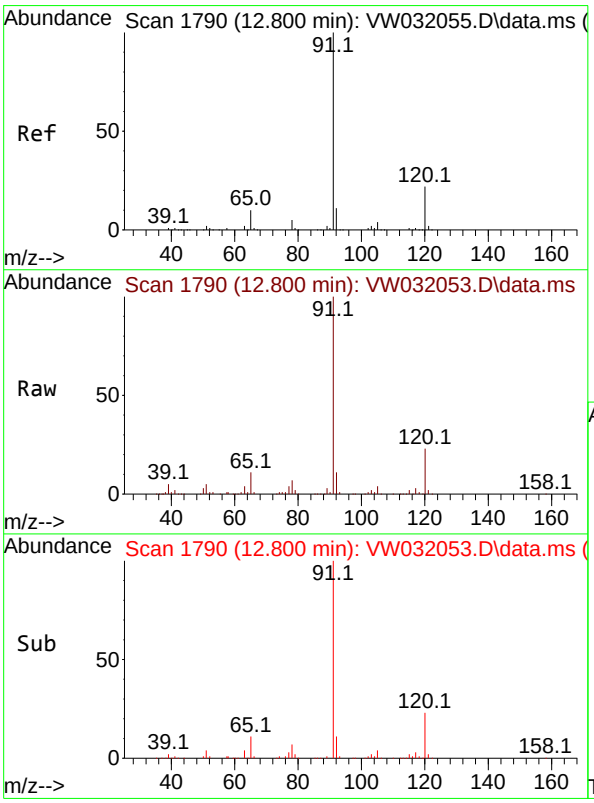
#77
Bromobenzene
Concen: 10.462 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

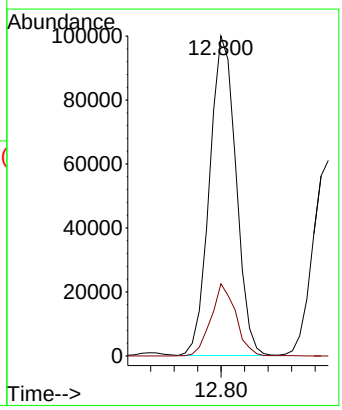


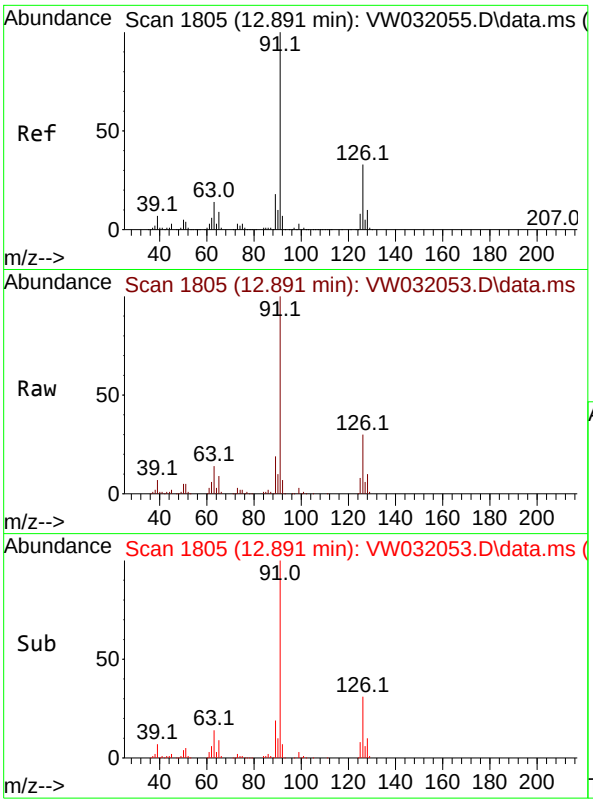


#78
n-propylbenzene
Concen: 10.019 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 156266

Ion	Ratio	Lower	Upper
91	100		
120	21.1	11.1	33.3



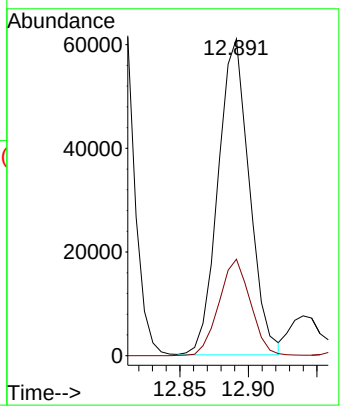


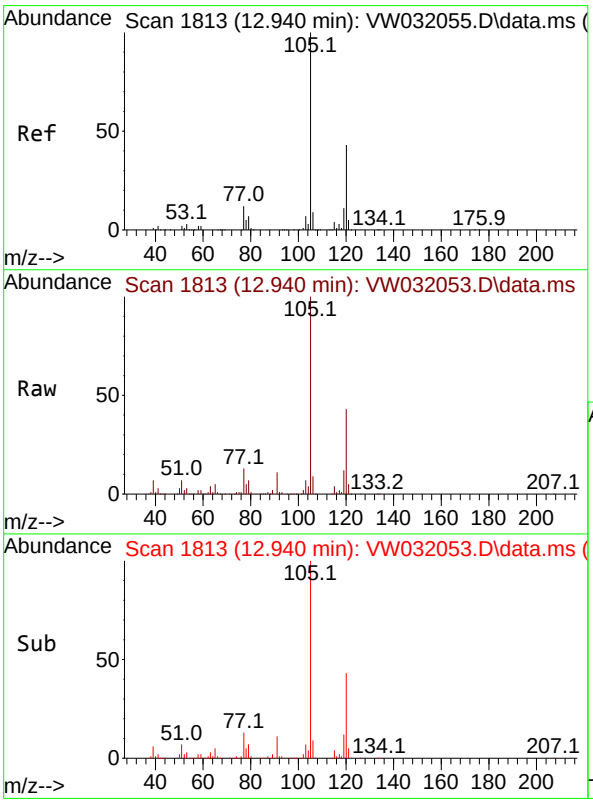
#79
2-Chlorotoluene
Concen: 10.071 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 96942

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7

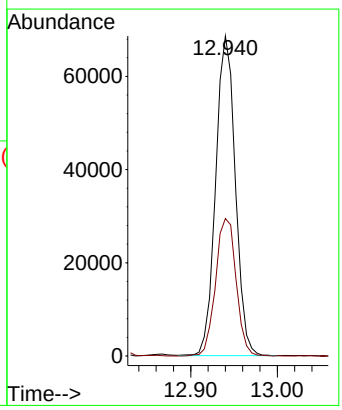


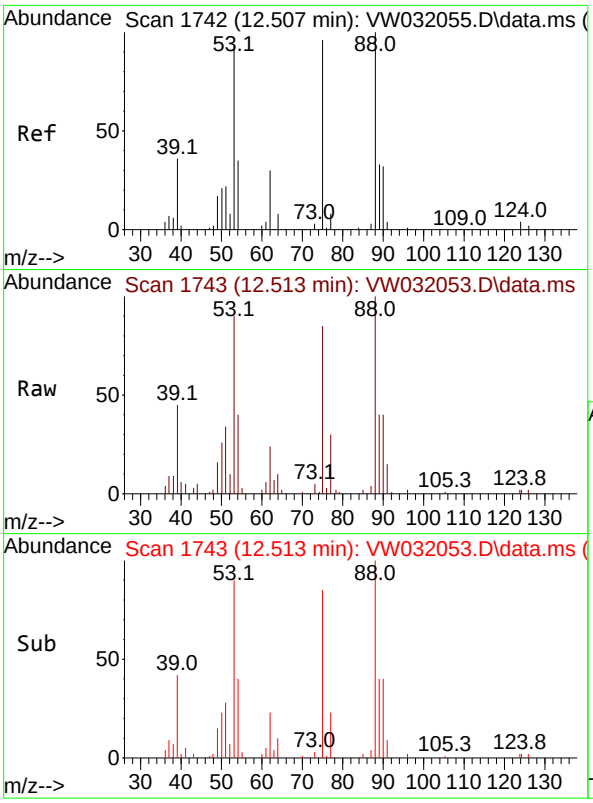


#80
1,3,5-Trimethylbenzene
Concen: 10.053 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 108123

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.4	70.0



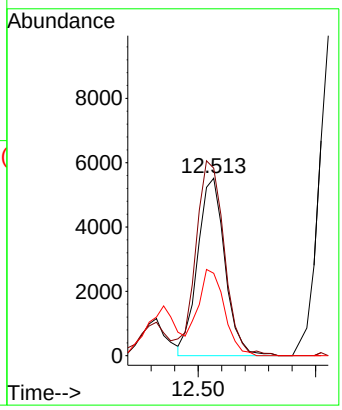


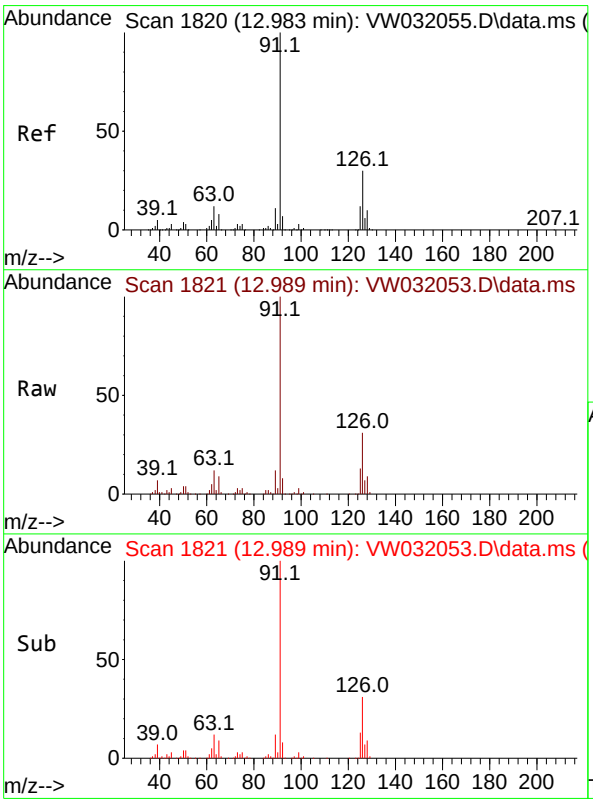
#81
trans-1,4-Dichloro-2-butene
Concen: 9.403 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

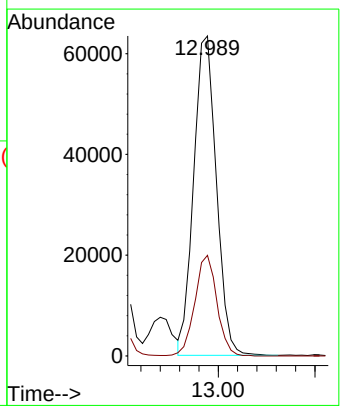


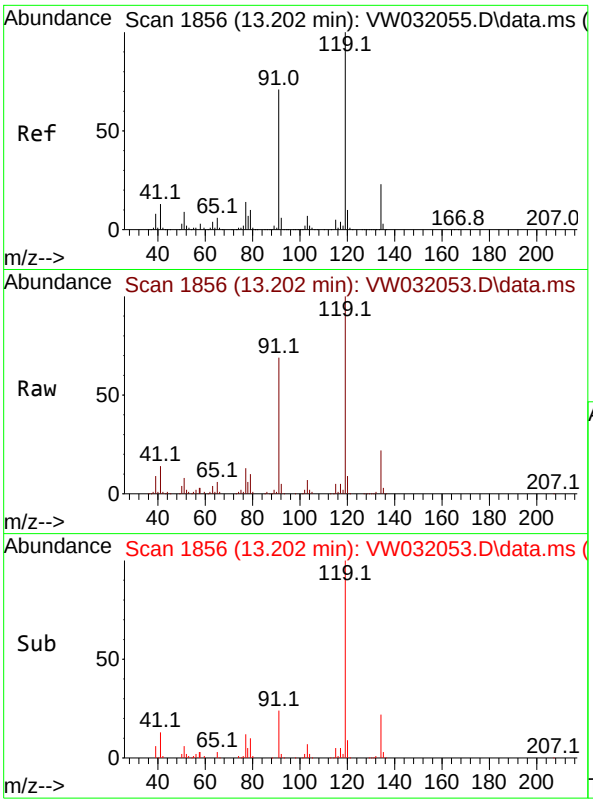


#82
4-Chlorotoluene
Concen: 10.103 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 103329

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.5	46.5



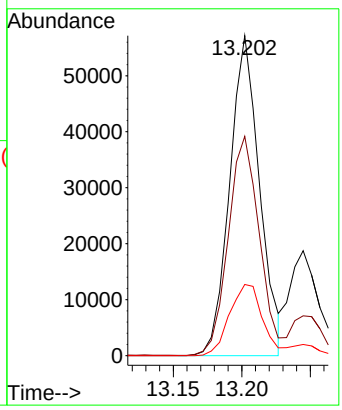


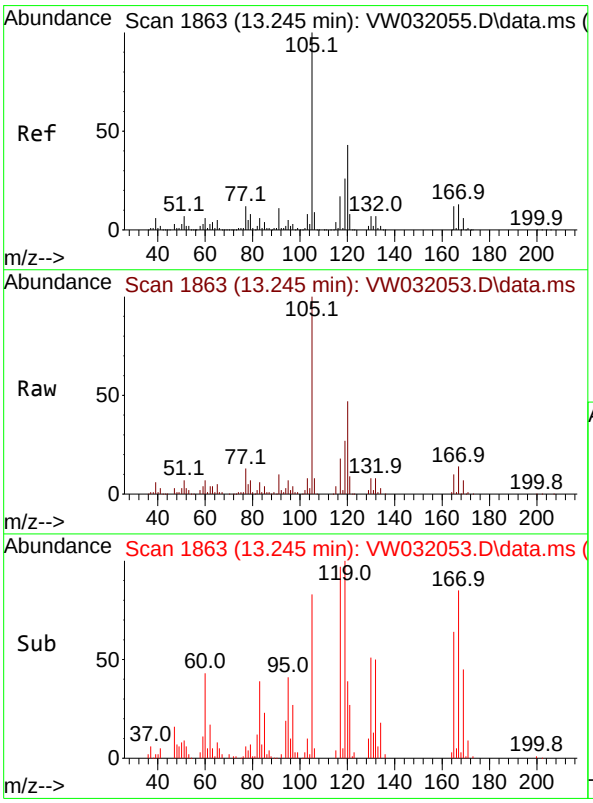
#83
tert-Butylbenzene
Concen: 9.729 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

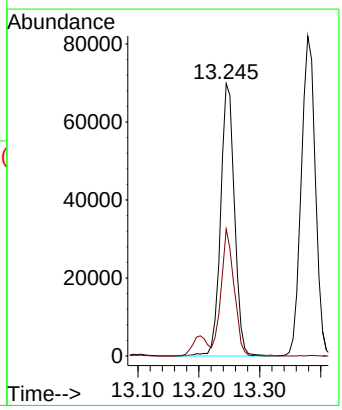


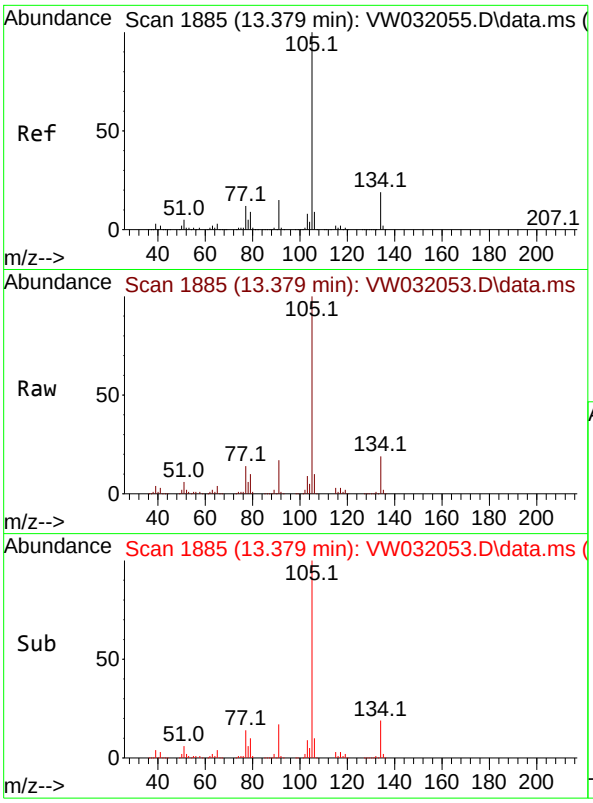


#84
1,2,4-Trimethylbenzene
Concen: 10.110 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 110697

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	64.8



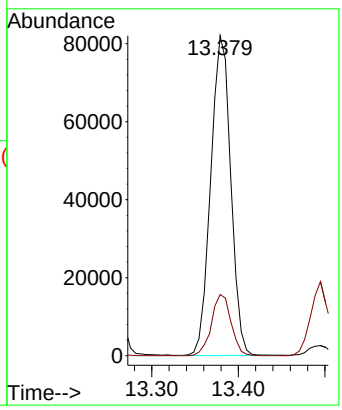


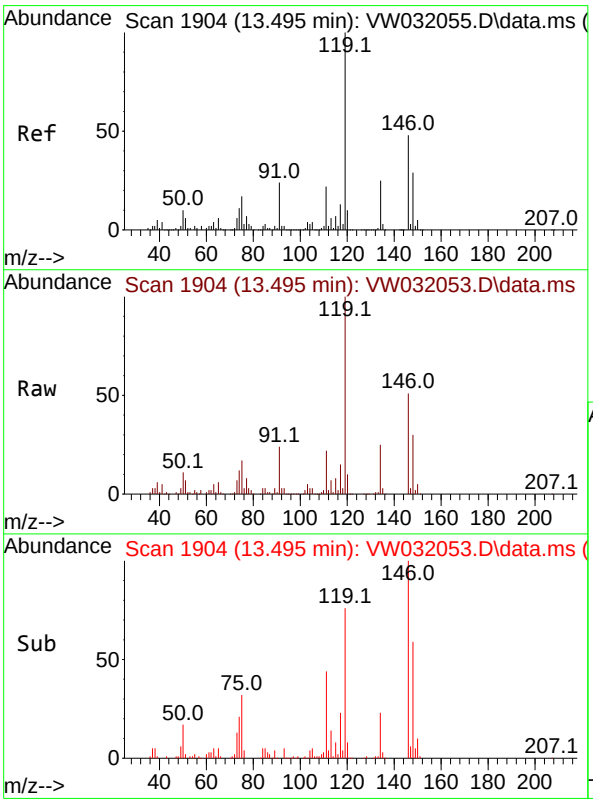
#85
sec-Butylbenzene
Concen: 9.756 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 131663

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

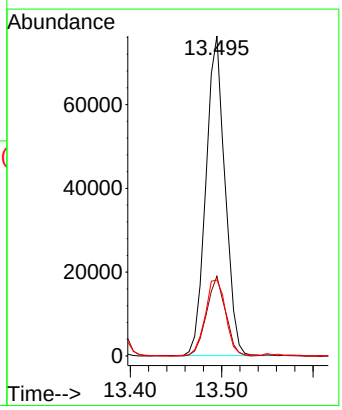


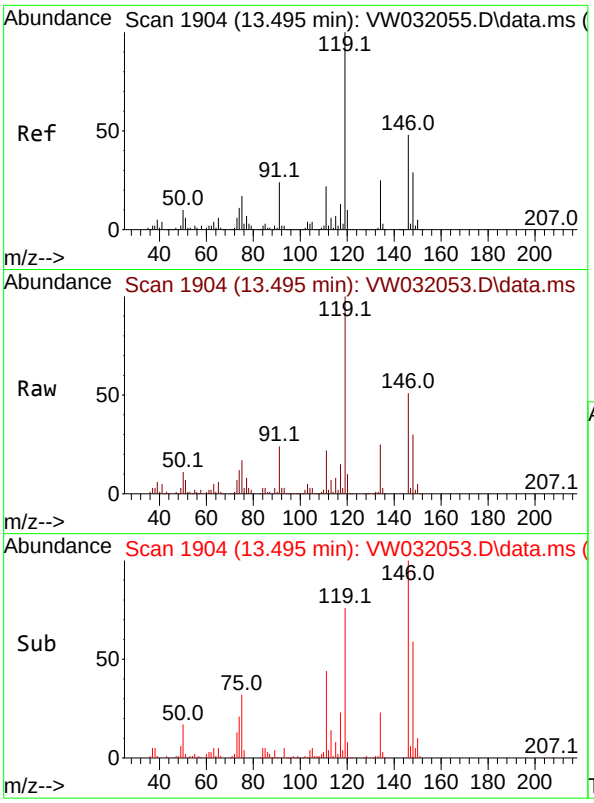


#86
p-Isopropyltoluene
Concen: 9.827 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



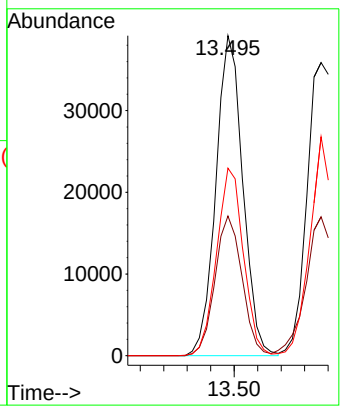


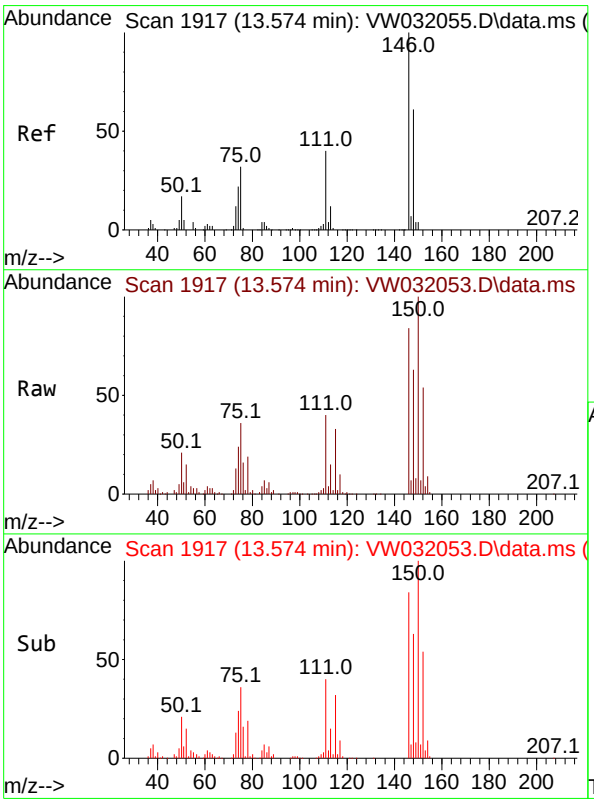
#87
1,3-Dichlorobenzene
Concen: 10.361 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

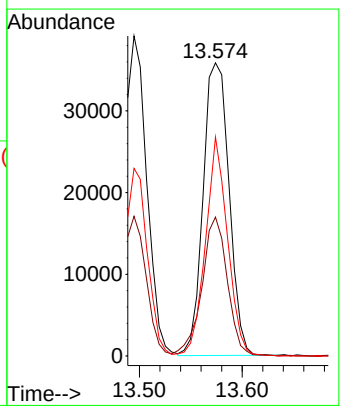


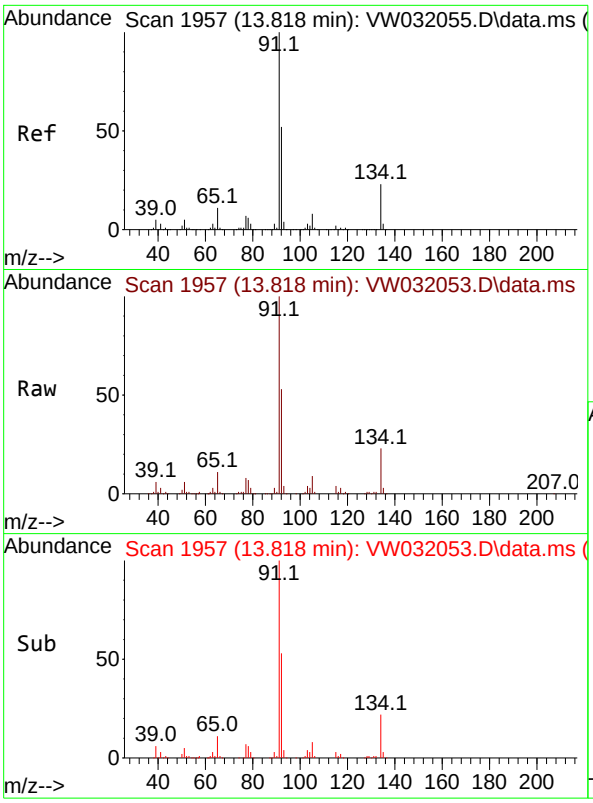


#88
1,4-Dichlorobenzene
Concen: 10.328 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



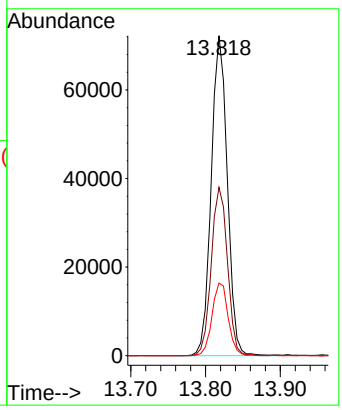


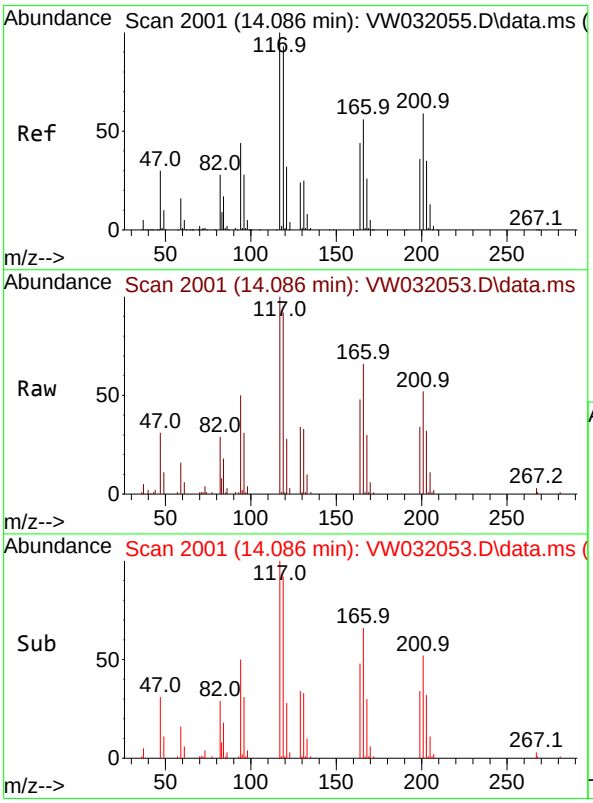
#89
n-Butylbenzene
Concen: 9.881 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

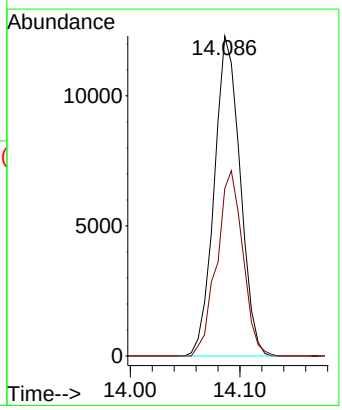


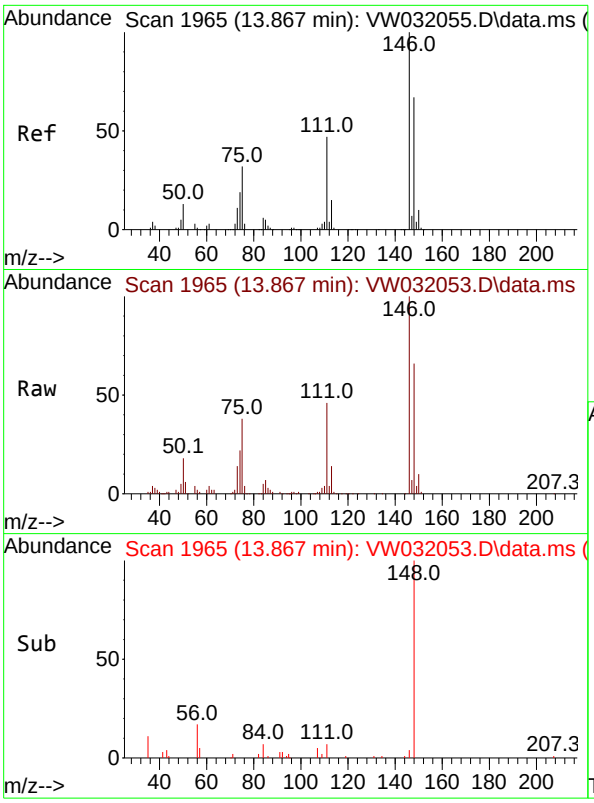


#90
Hexachloroethane
Concen: 9.805 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 20175

Ion	Ratio	Lower	Upper
117	100		
201	58.3	30.9	92.5



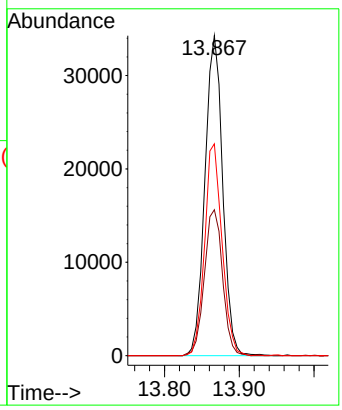


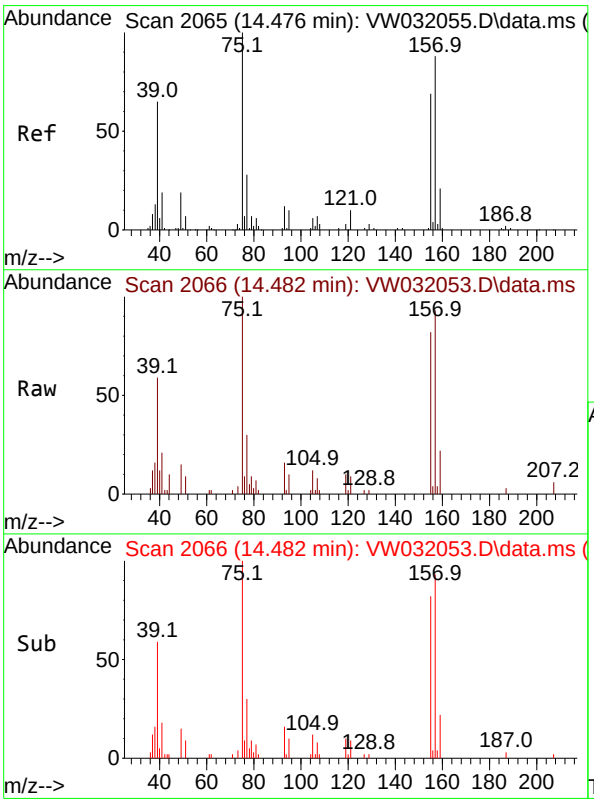
#91
1,2-Dichlorobenzene
Concen: 10.359 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

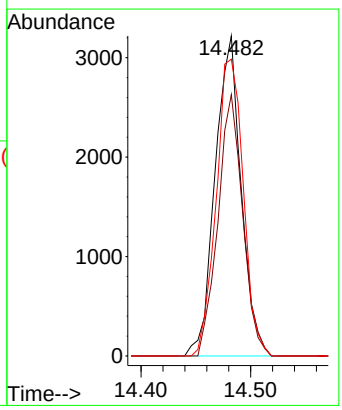


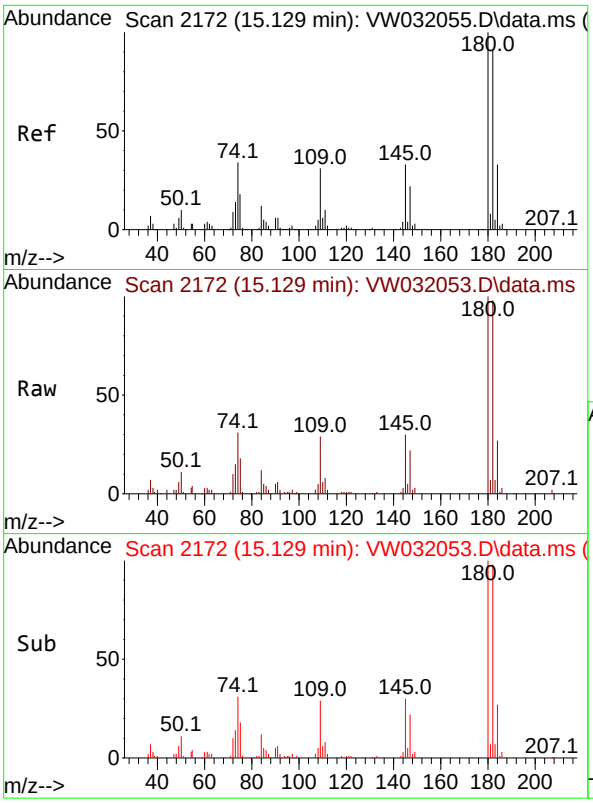


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.920 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



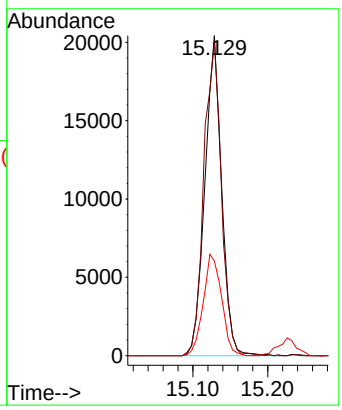


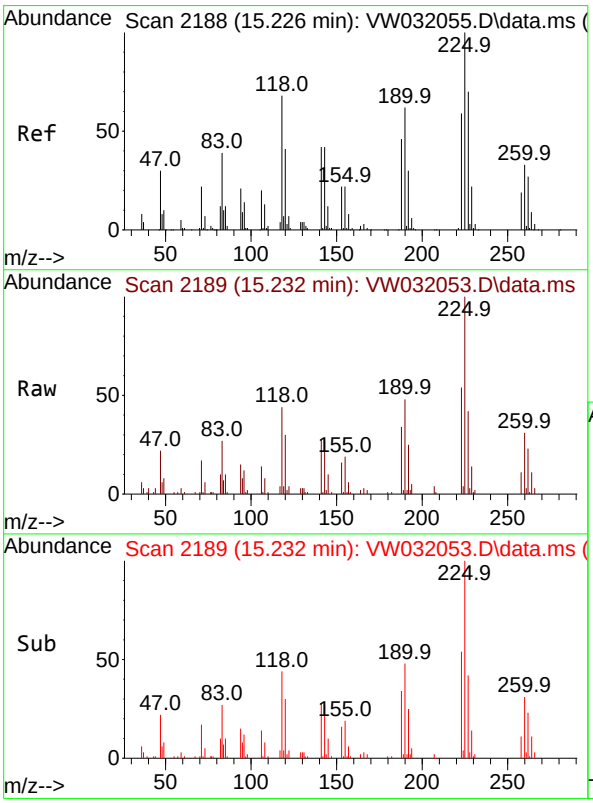
#93
1,2,4-Trichlorobenzene
Concen: 9.751 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

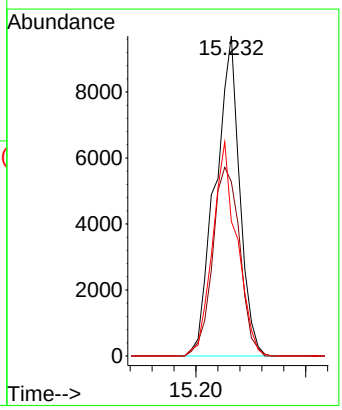


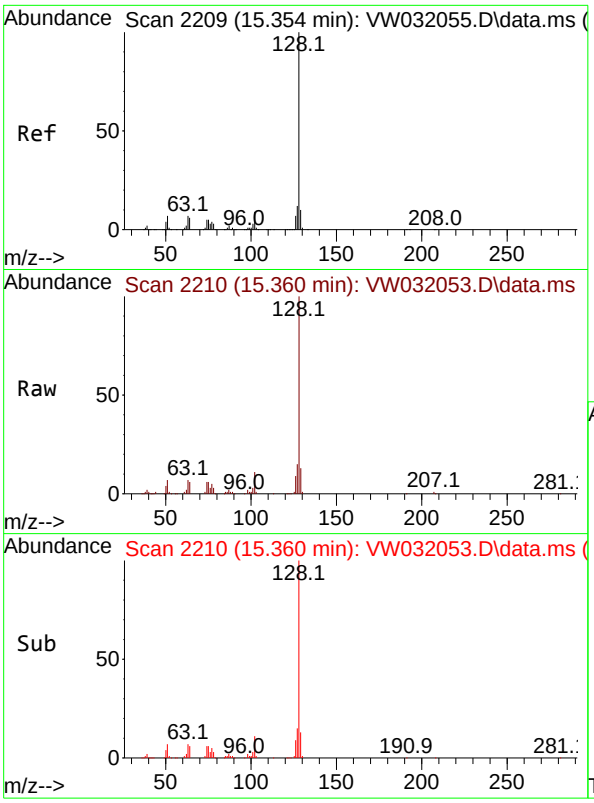


#94
Hexachlorobutadiene
Concen: 10.276 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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



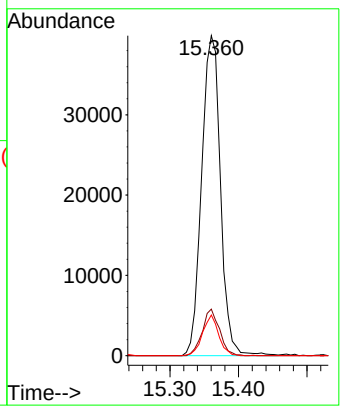


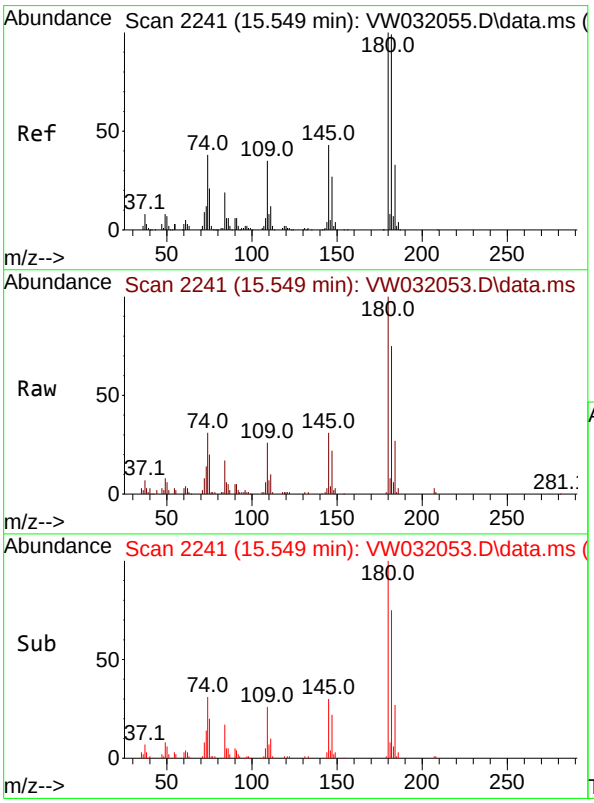
#95
Naphthalene
Concen: 9.542 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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

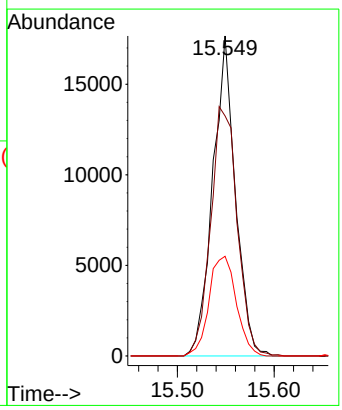




#96
1,2,3-Trichlorobenzene
Concen: 9.660 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

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)

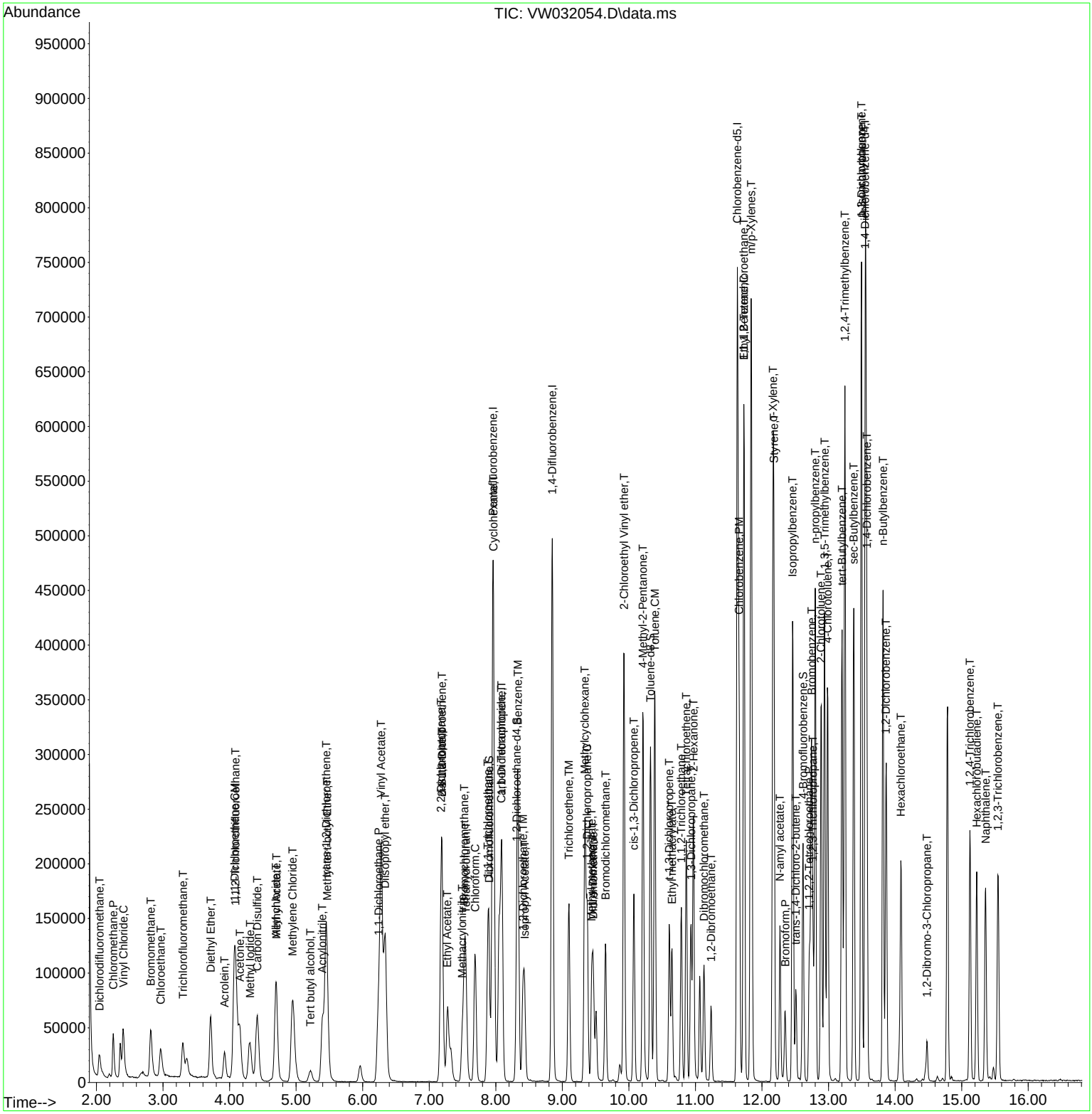
(#) = qualifier out of range (m) = manual integration (+) = signals summed

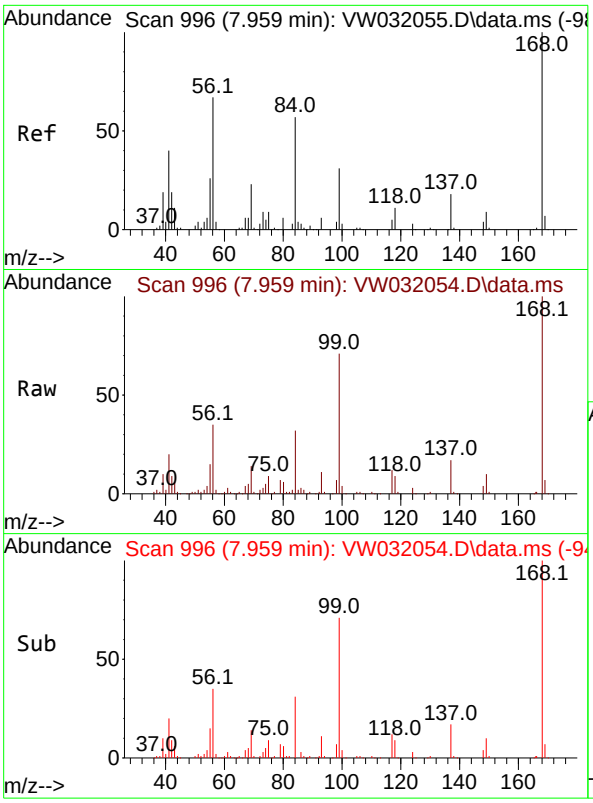
Quantitation Report (Not Reviewed)

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



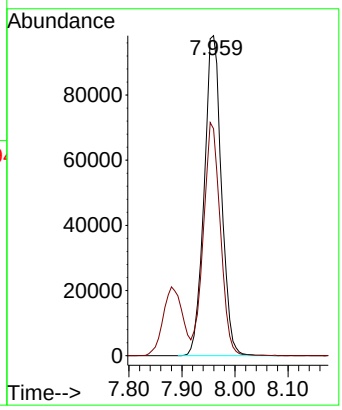


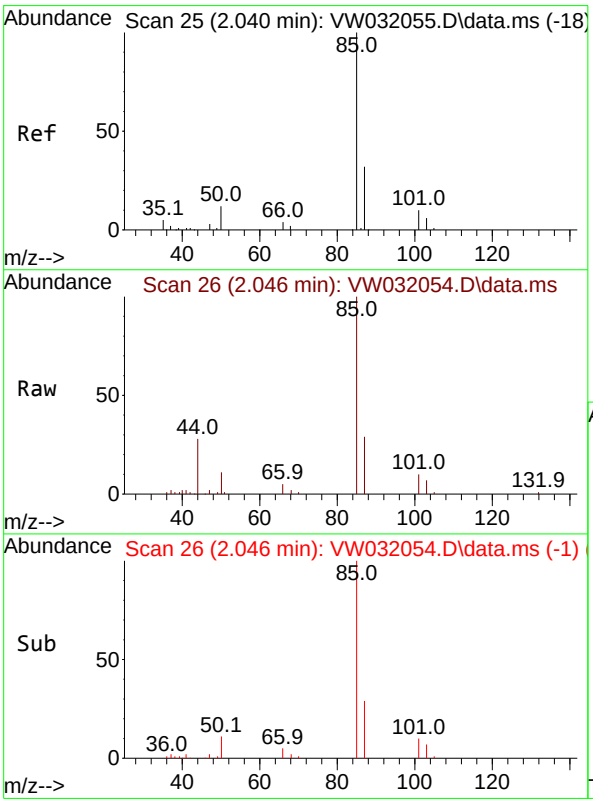
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 221832

Ion	Ratio	Lower	Upper
168	100		
99	70.9	56.0	84.0

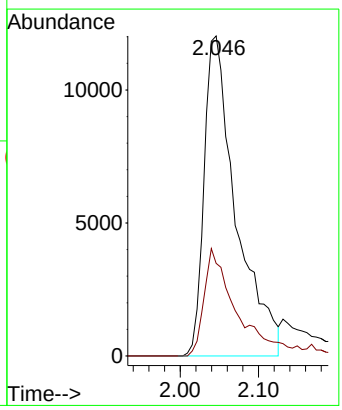


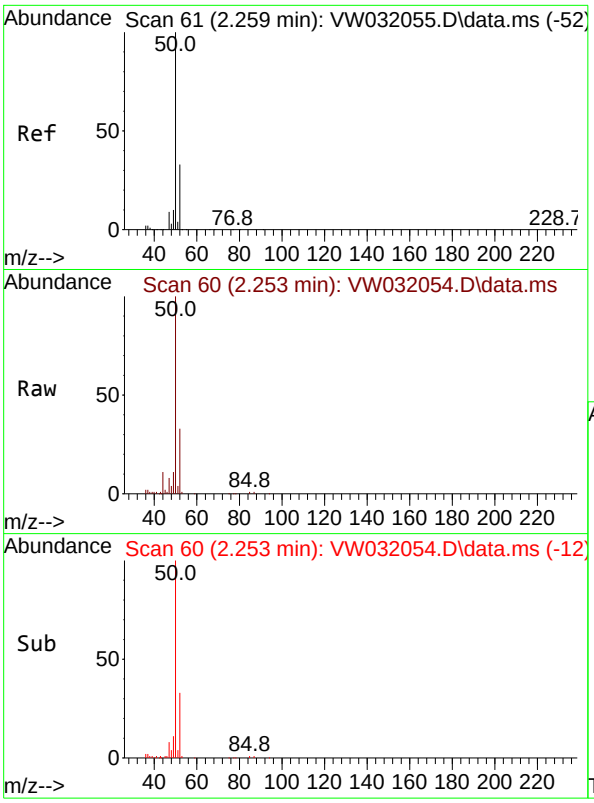


#2
Dichlorodifluoromethane
Concen: 21.537 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 85 Resp: 34171

Ion	Ratio	Lower	Upper
85	100		
87	29.0	16.2	48.6



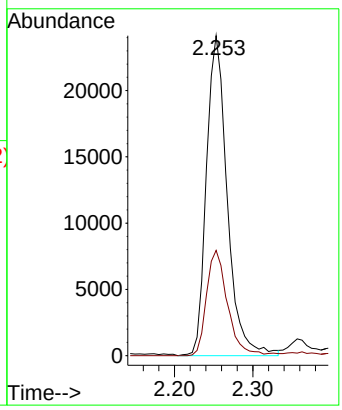


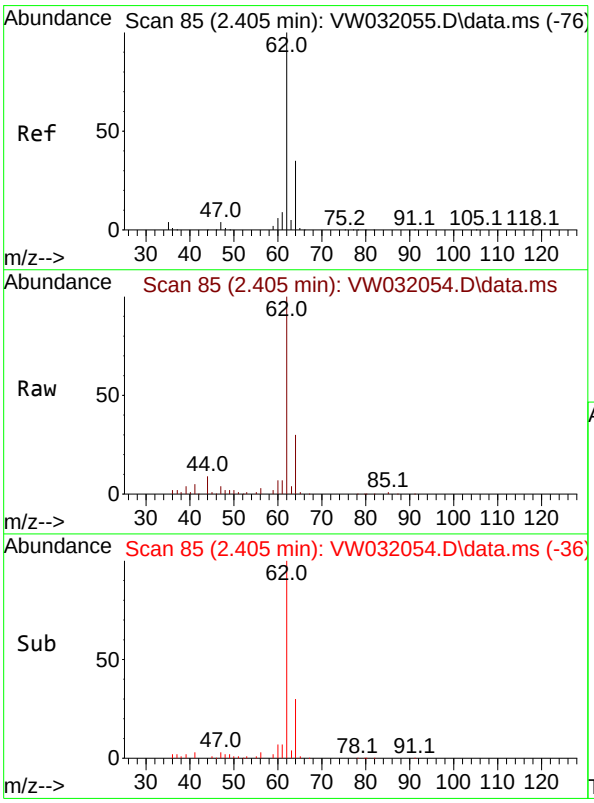
#3
Chloromethane
Concen: 20.821 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 44499

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.6	39.8

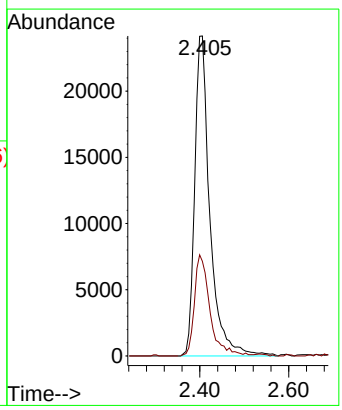


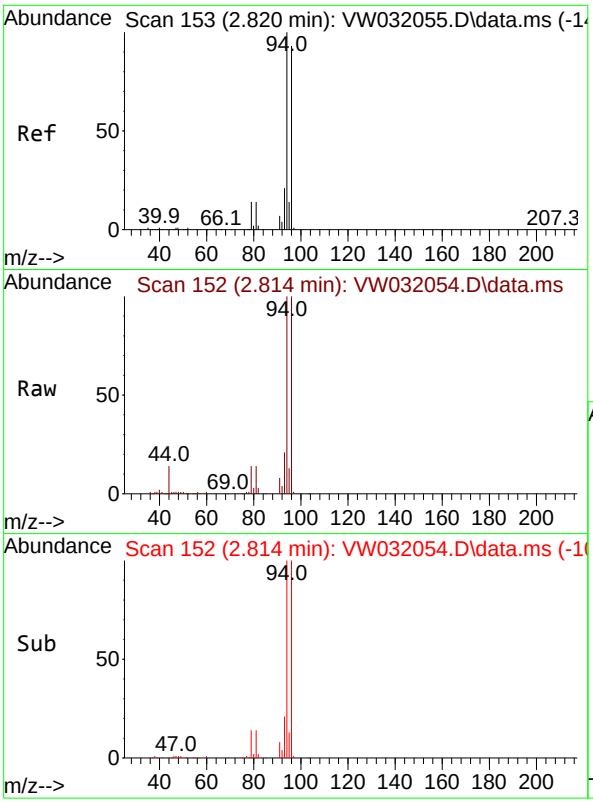


#4
Vinyl Chloride
Concen: 22.162 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 57293

Ion	Ratio	Lower	Upper
62	100		
64	29.6	27.8	41.6



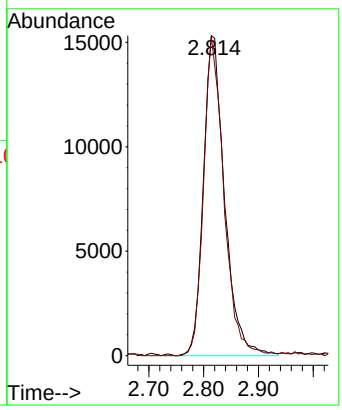


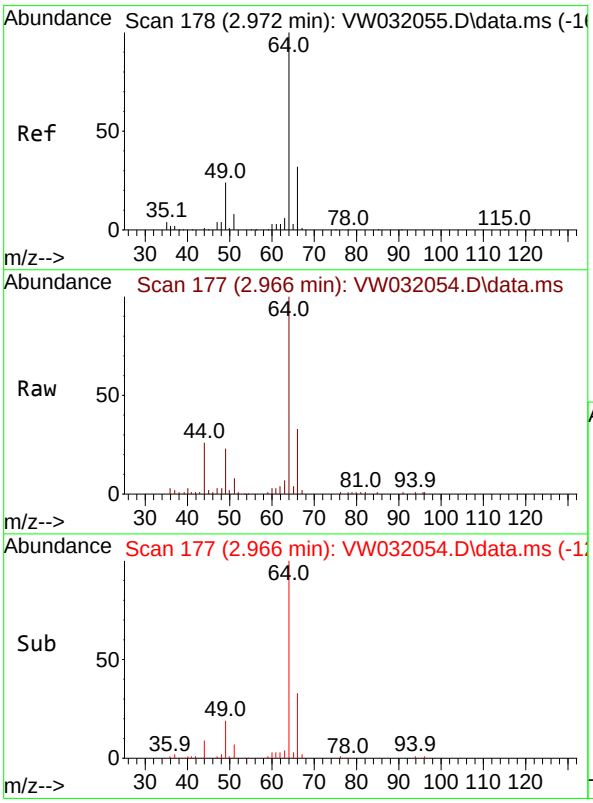
#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 41008

Ion	Ratio	Lower	Upper
94	100		
96	99.7	74.7	112.1

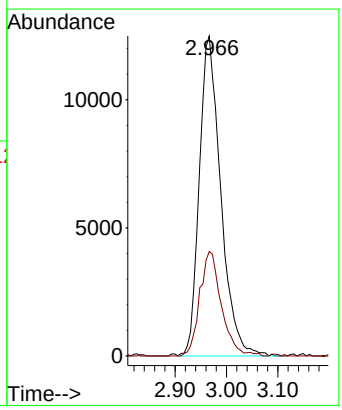


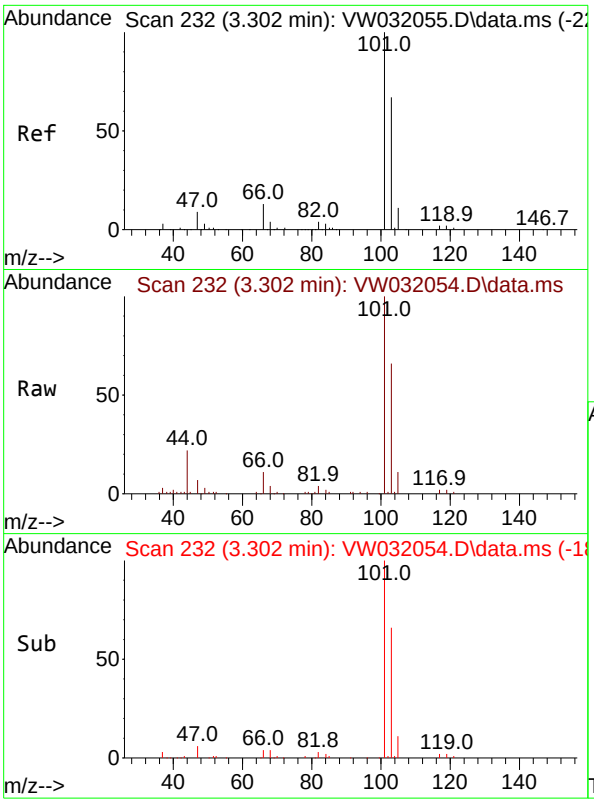


#6
Chloroethane
Concen: 21.173 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 64 Resp: 36220

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0



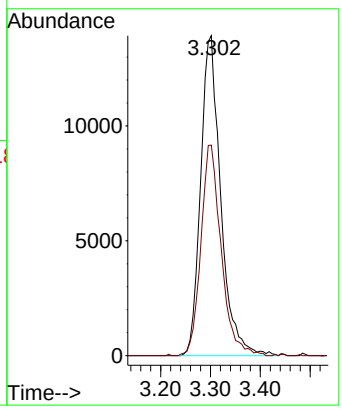


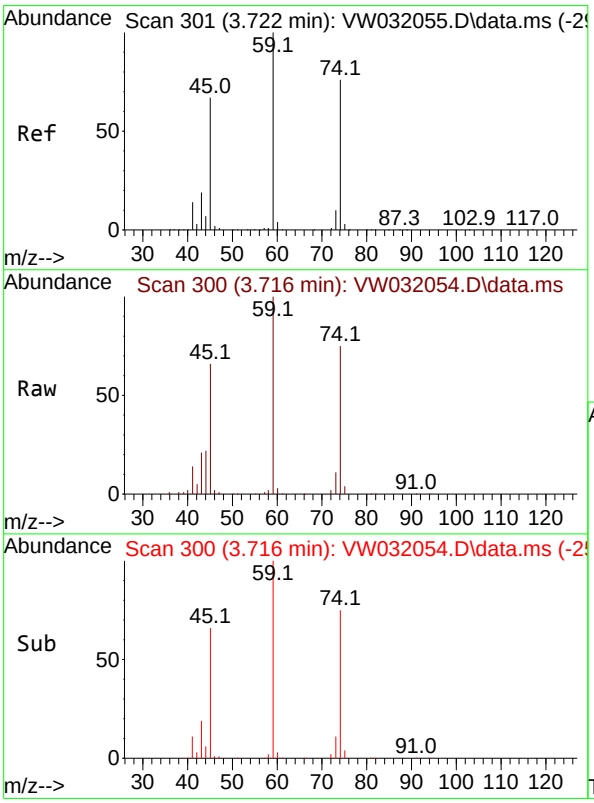
#7
Trichlorofluoromethane
Concen: 18.821 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 38977

Ion	Ratio	Lower	Upper
101	100		
103	65.8	53.4	80.0

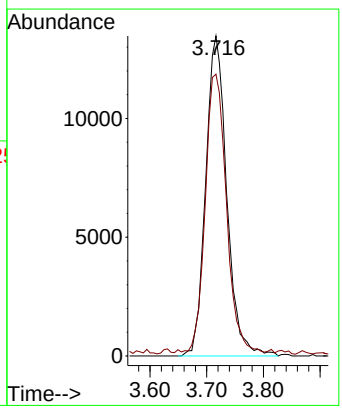


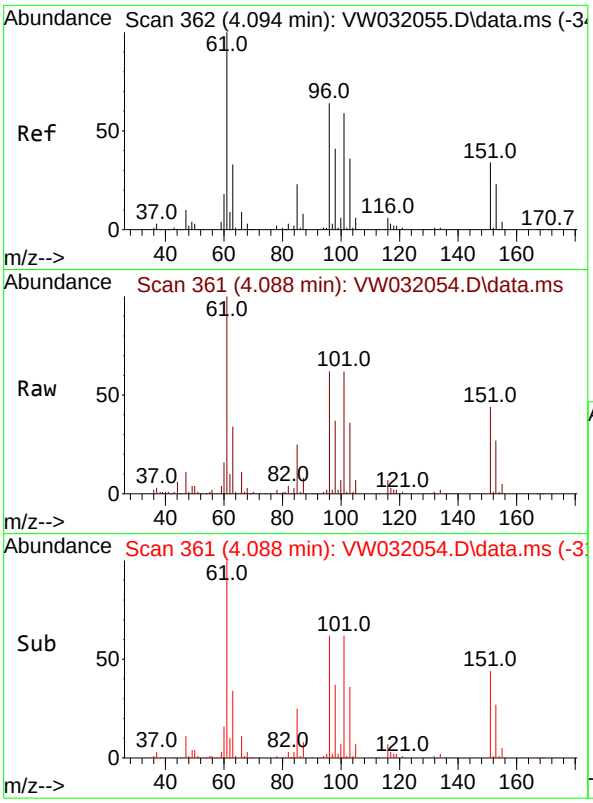


#8
Diethyl Ether
Concen: 20.489 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 74 Resp: 34764

Ion	Ratio	Lower	Upper
74	100		
45	86.6	45.4	136.2



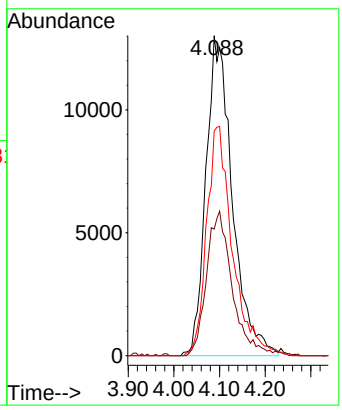


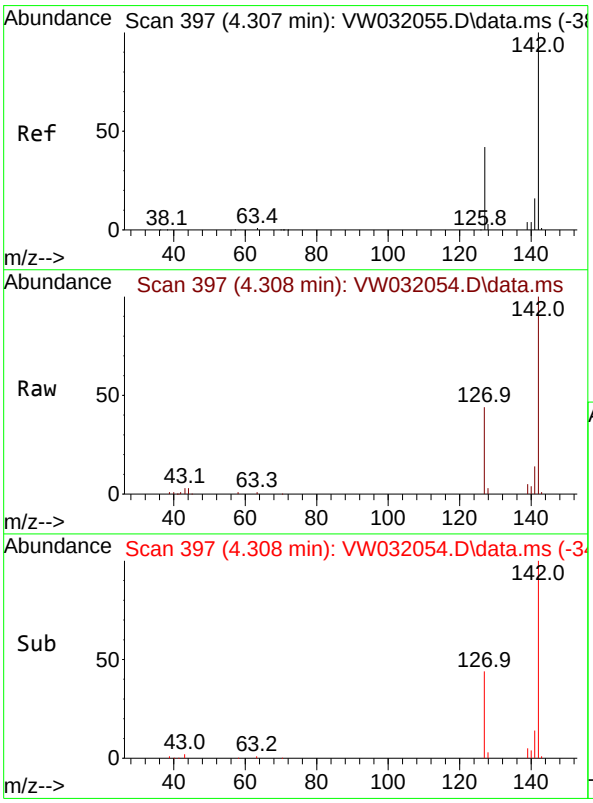
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.351 ug/l
RT: 4.088 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

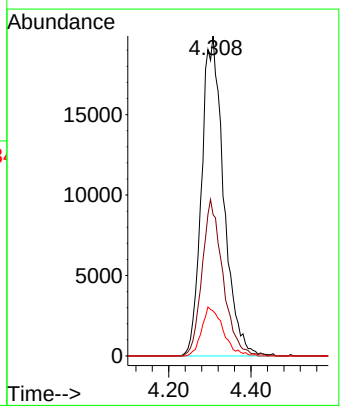


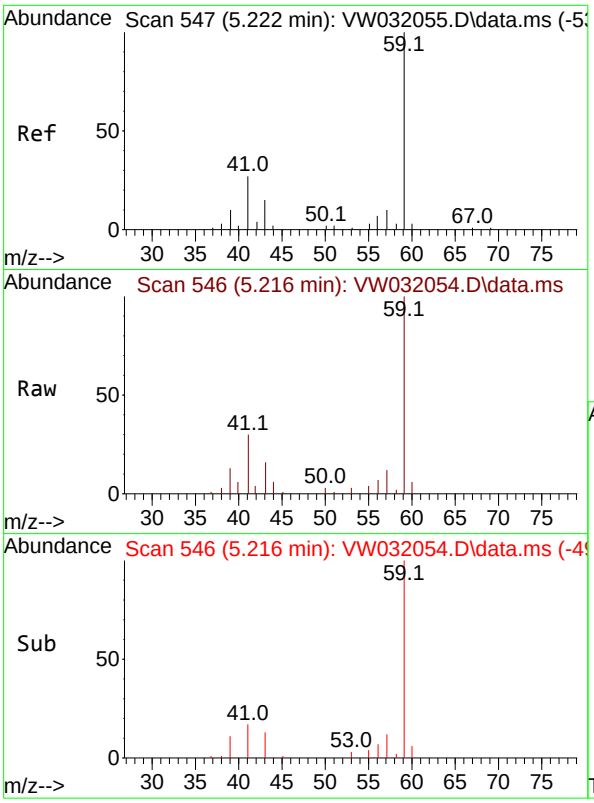


#10
Methyl Iodide
Concen: 21.419 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



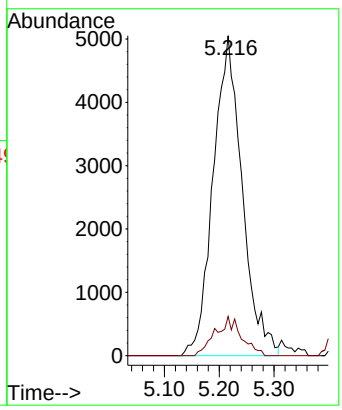


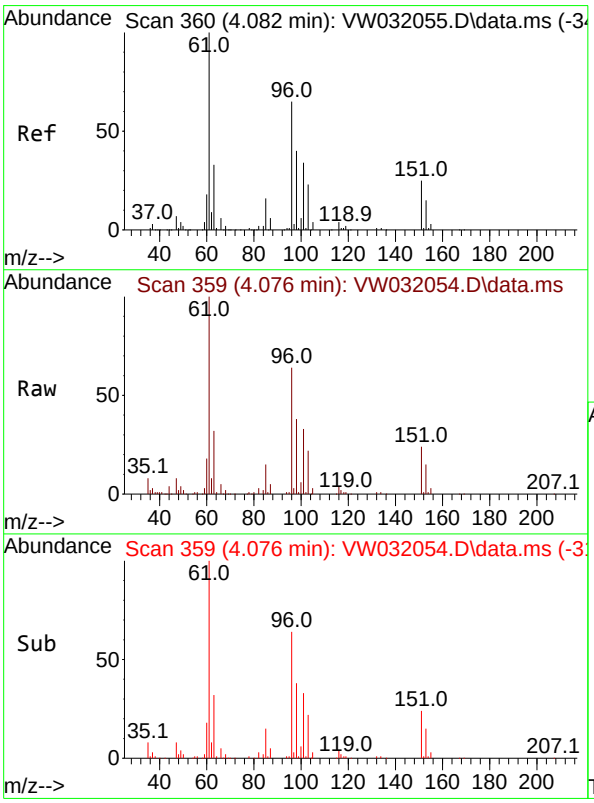
#11
Tert butyl alcohol
Concen: 89.237 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 18539

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

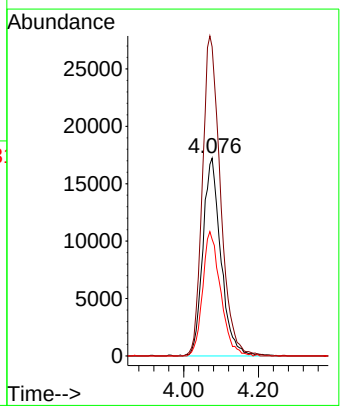


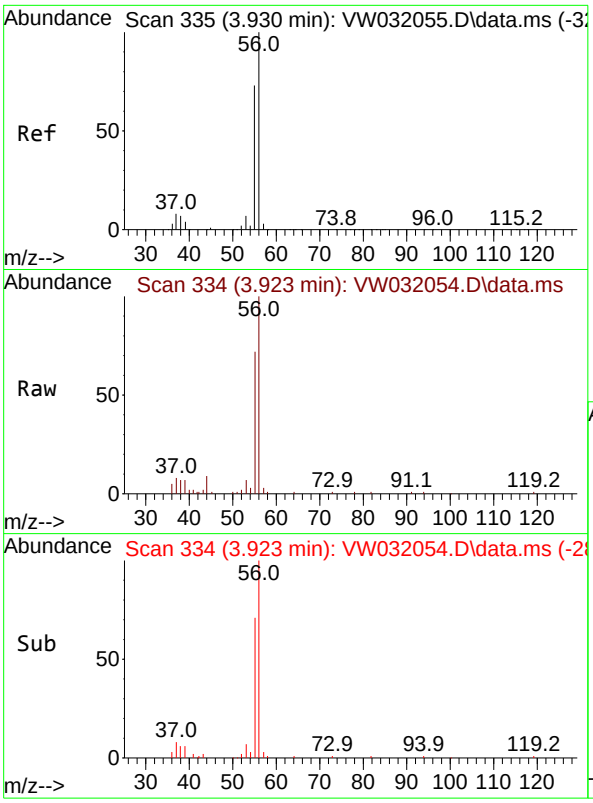


#12
1,1-Dichloroethene
Concen: 21.419 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



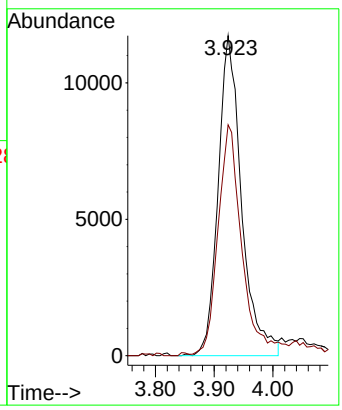


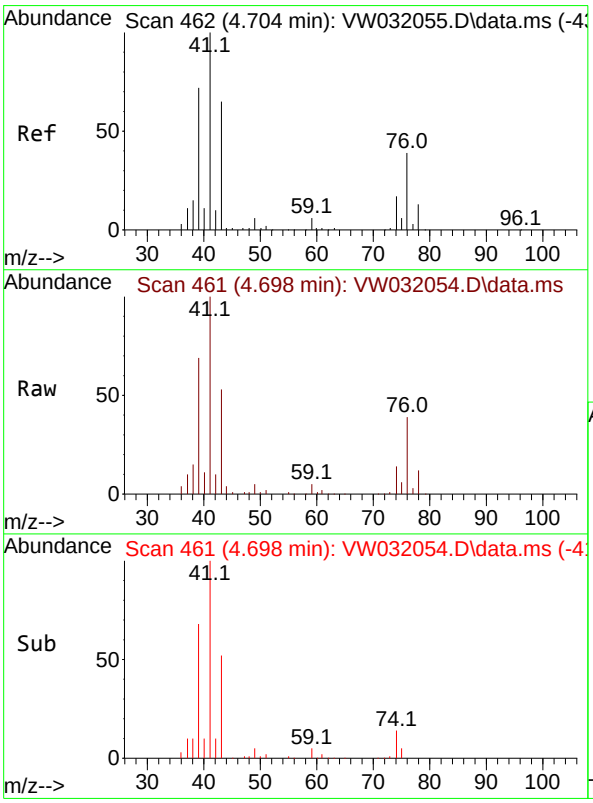
#13
Acrolein
Concen: 98.218 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 32512

Ion	Ratio	Lower	Upper
56	100		
55	72.7	55.4	83.2

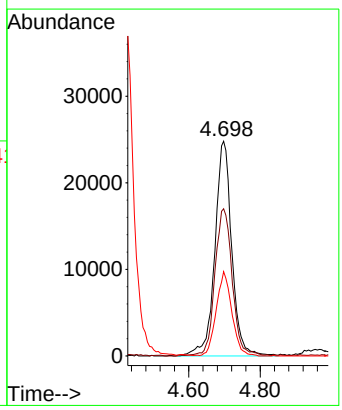


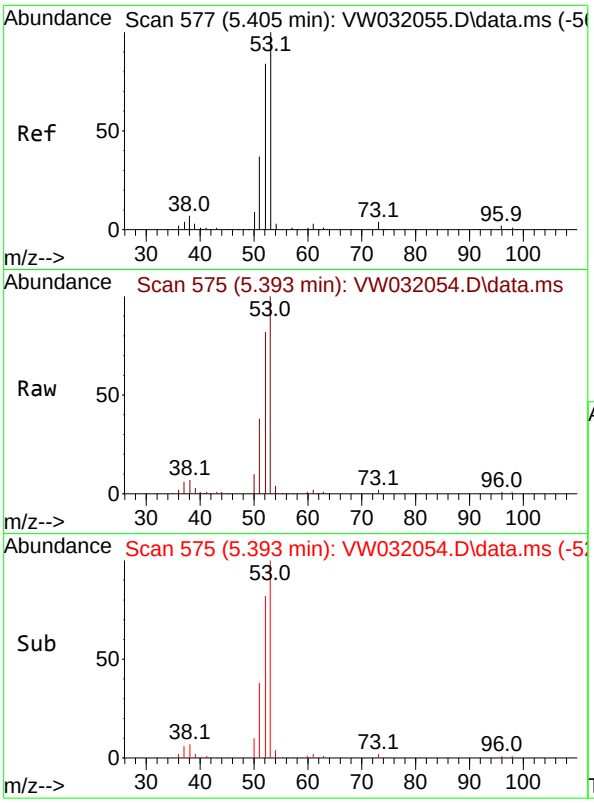


#14
Allyl chloride
Concen: 20.804 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



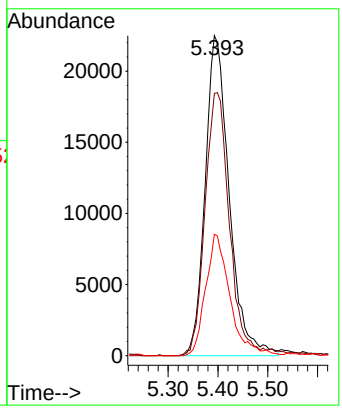


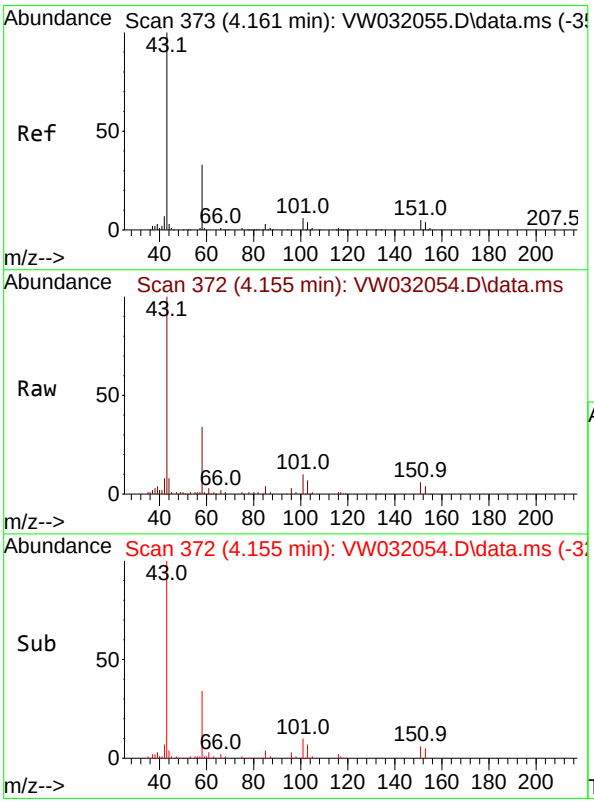
#15
Acrylonitrile
Concen: 93.190 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

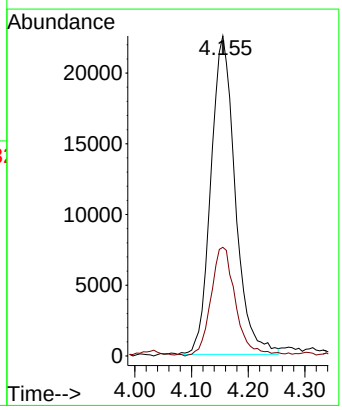


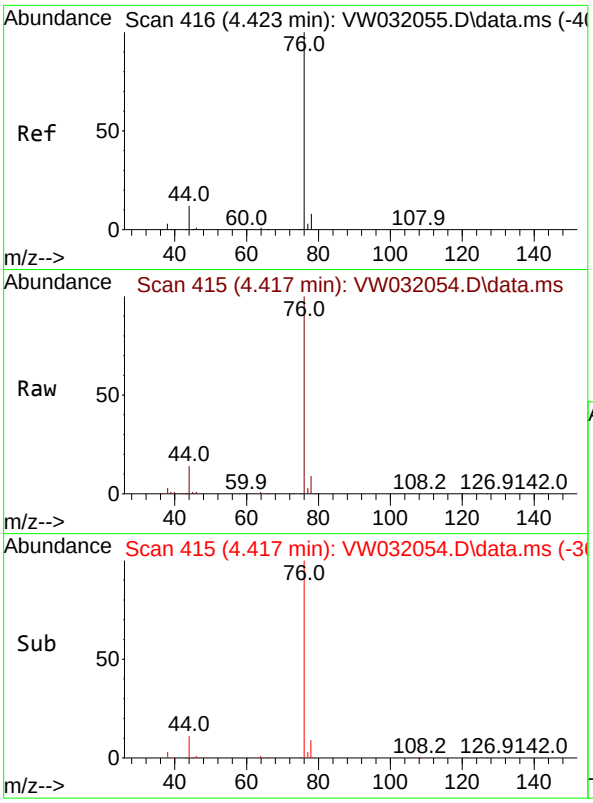


#16
Acetone
Concen: 90.379 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 67134

Ion	Ratio	Lower	Upper
43	100		
58	33.6	26.6	39.8



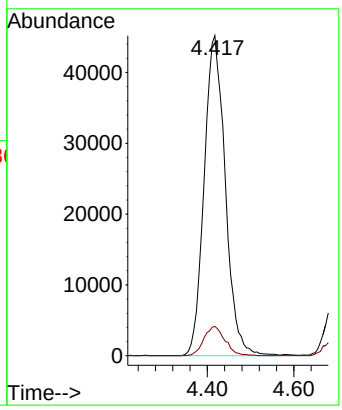


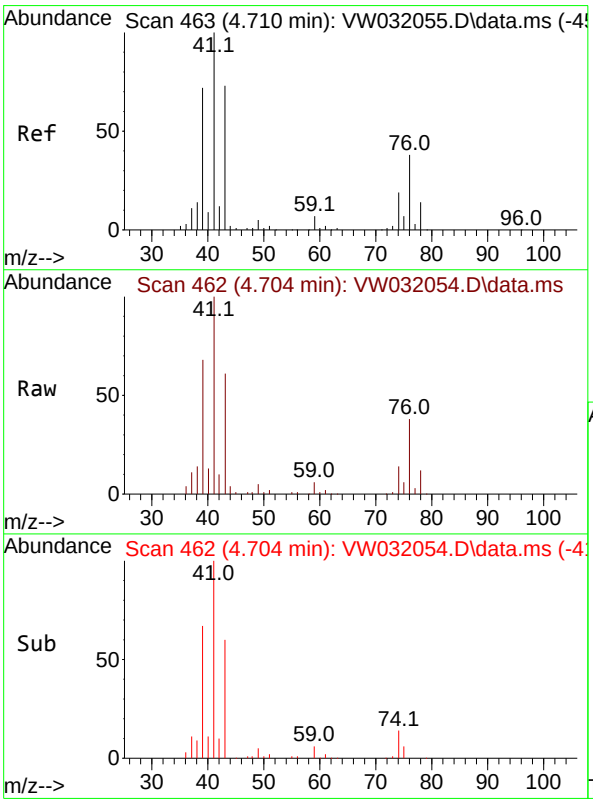
#17
Carbon Disulfide
Concen: 21.222 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 153247

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.4	9.6

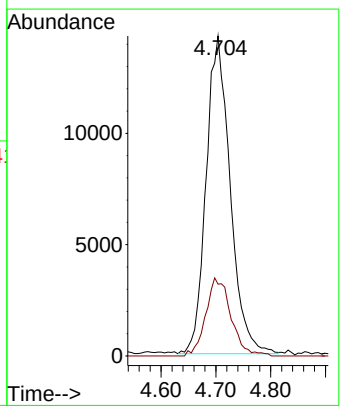


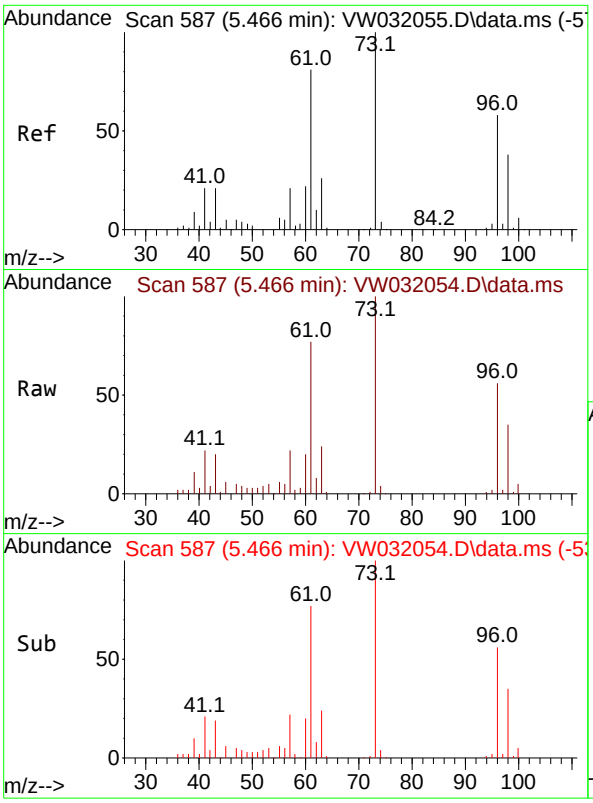


#18
Methyl Acetate
Concen: 18.522 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 43536

Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.6	31.0



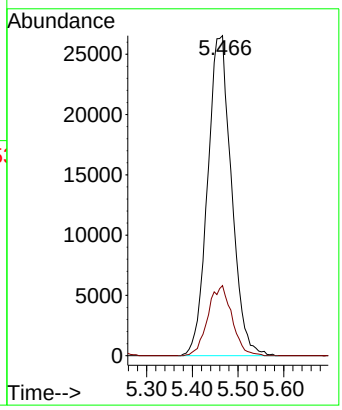


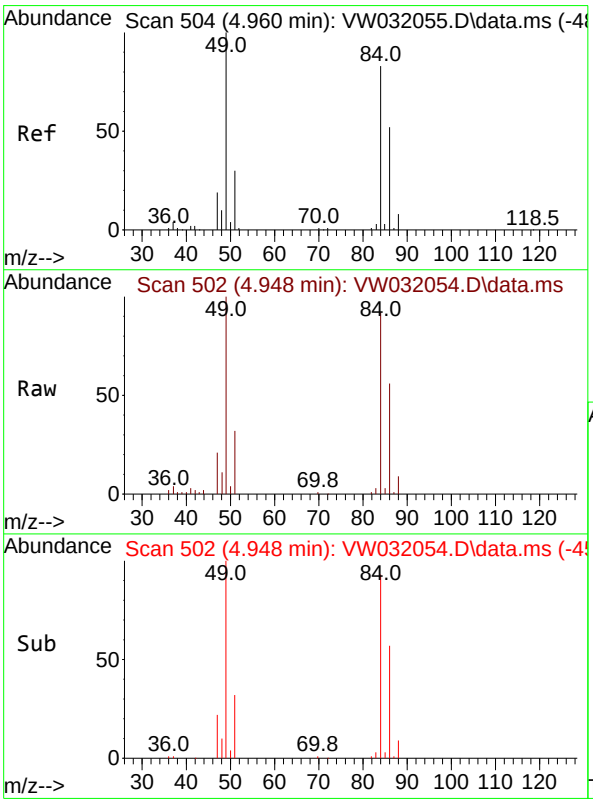
#19
Methyl tert-butyl Ether
Concen: 20.306 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 96253

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.2	25.8

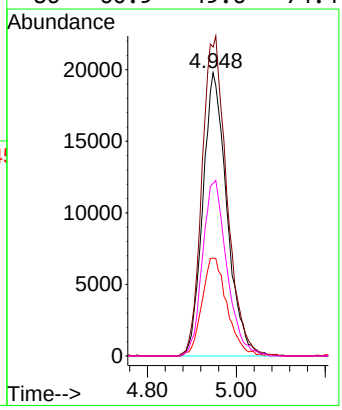


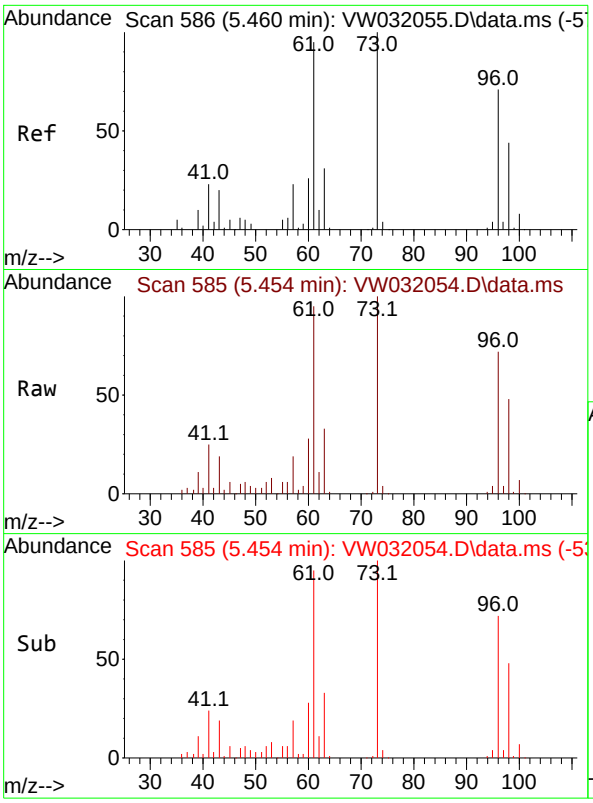


#20
Methylene Chloride
Concen: 21.706 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



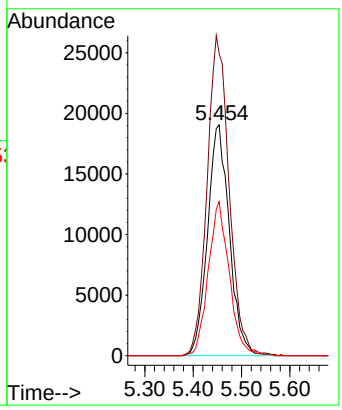


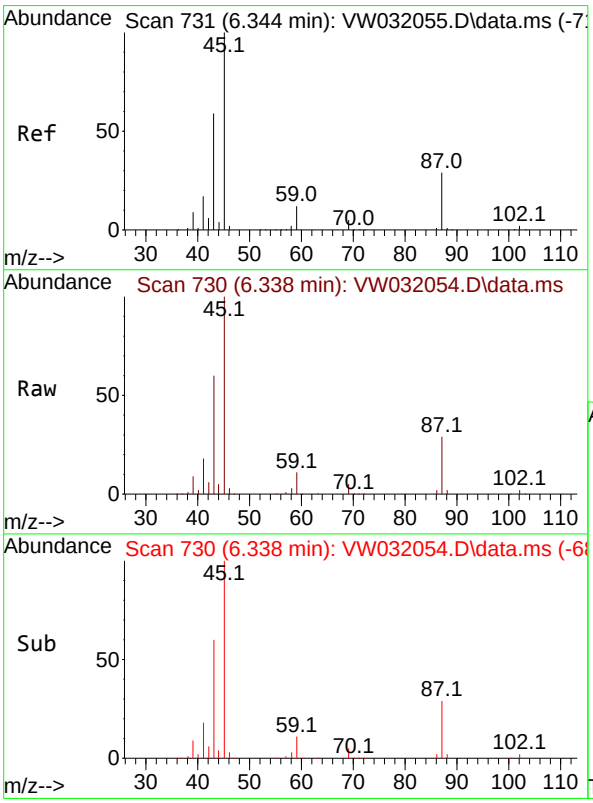
#21
trans-1,2-Dichloroethene
Concen: 20.917 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

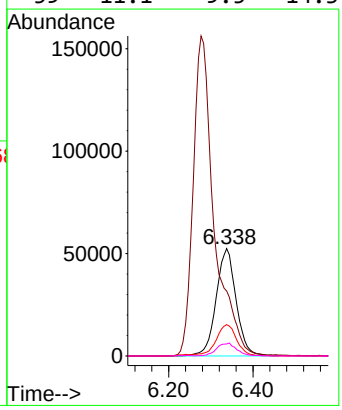


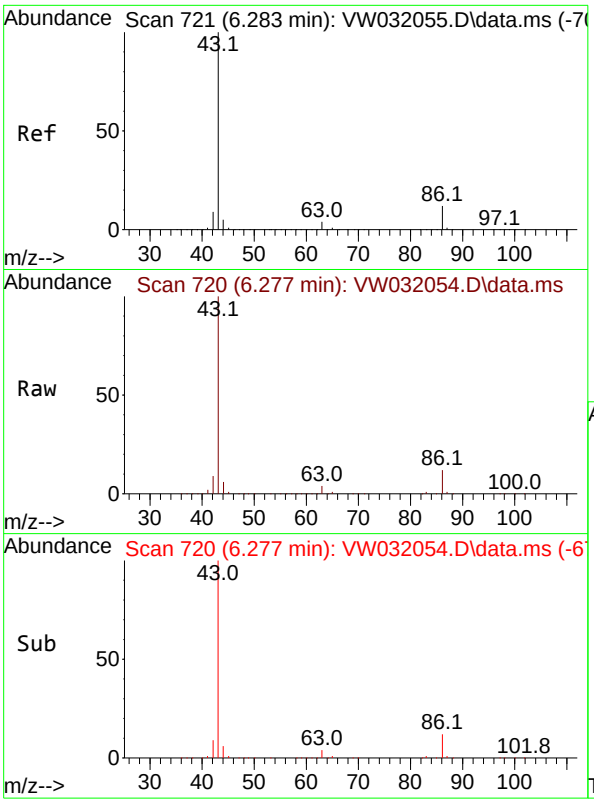


#22
Diisopropyl ether
Concen: 20.846 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



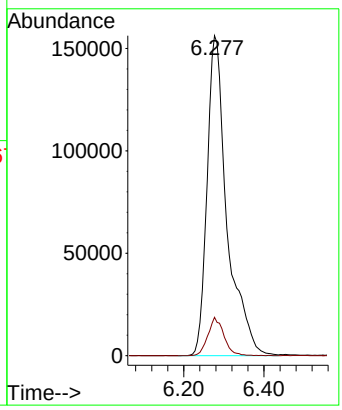


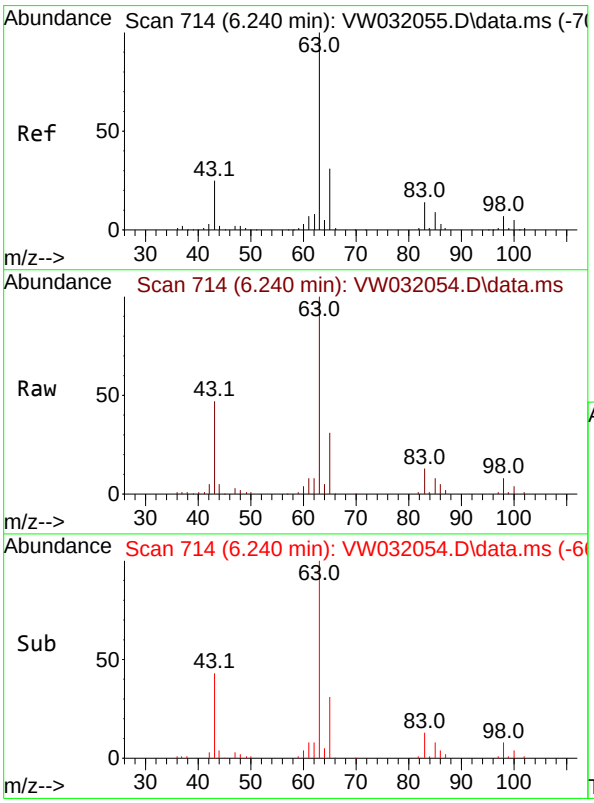
#23
Vinyl Acetate
Concen: 99.617 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 539862

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.4	14.0

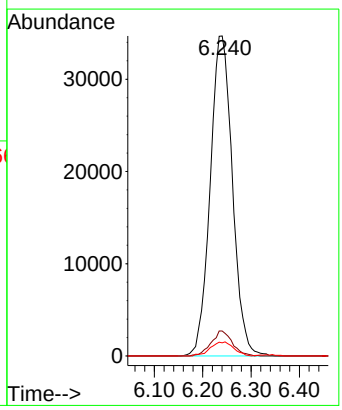


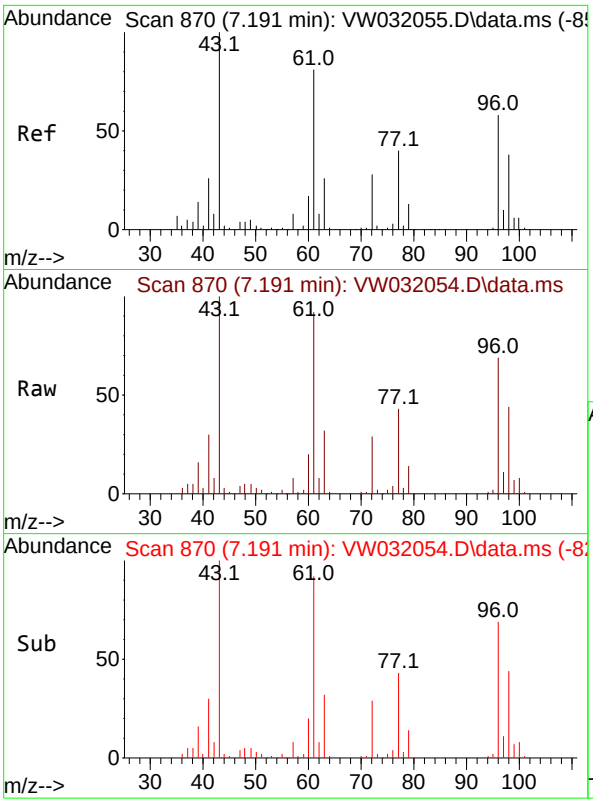


#24
1,1-Dichloroethane
Concen: 21.016 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



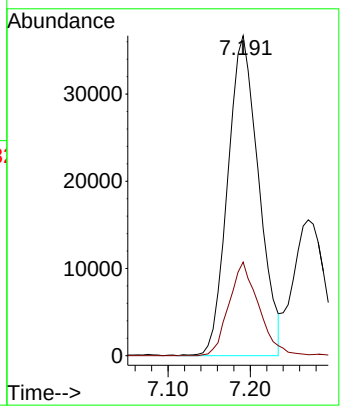


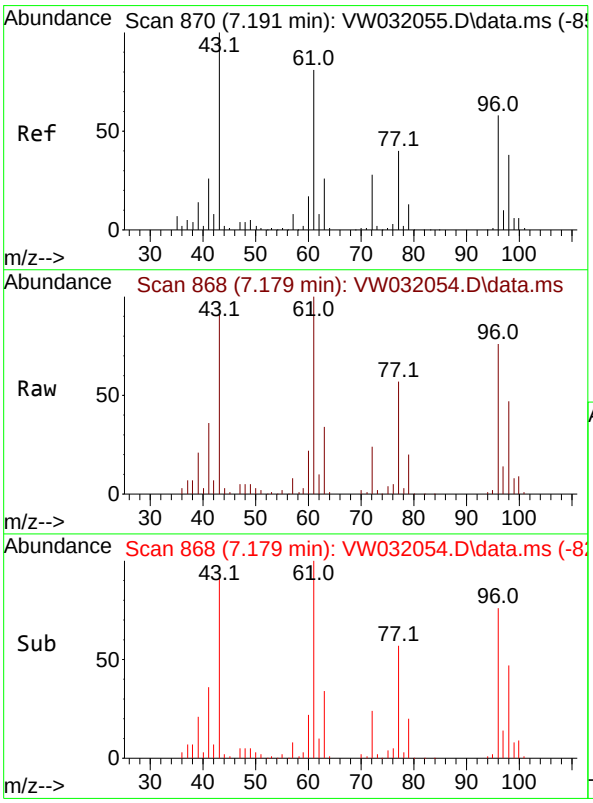
#25
2-Butanone
Concen: 91.114 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 96191

Ion	Ratio	Lower	Upper
43	100		
72	29.2	22.3	33.5

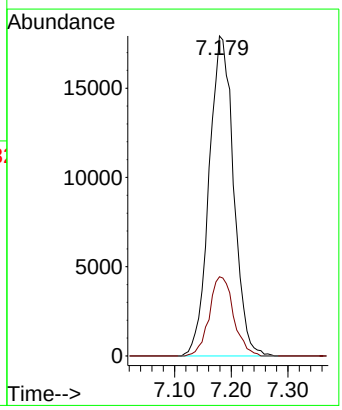


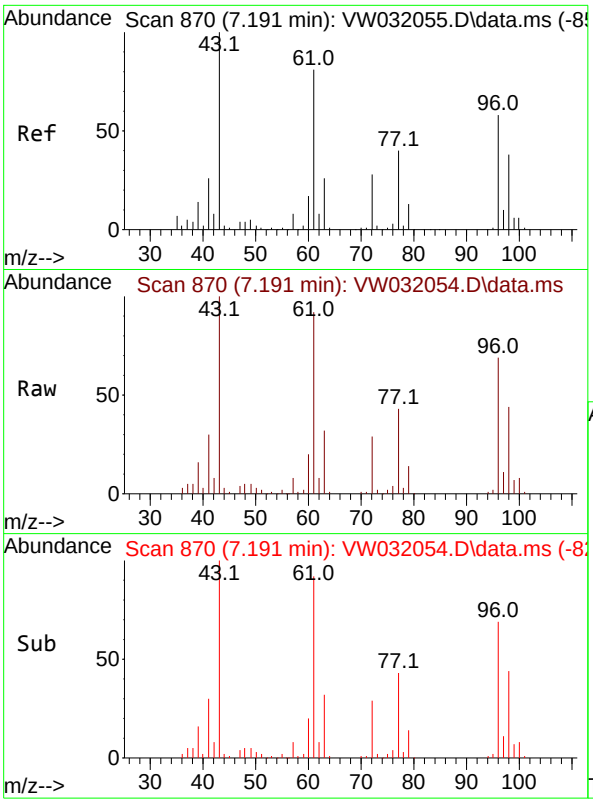


#26
2,2-Dichloropropane
Concen: 20.327 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 77 Resp: 53780

Ion	Ratio	Lower	Upper
77	100		
97	24.5	12.3	36.9



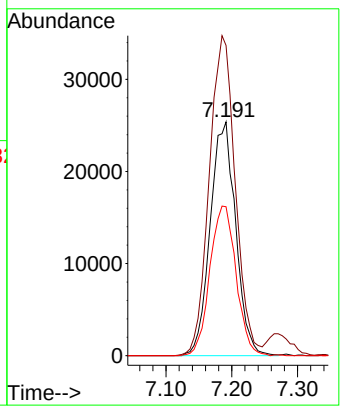


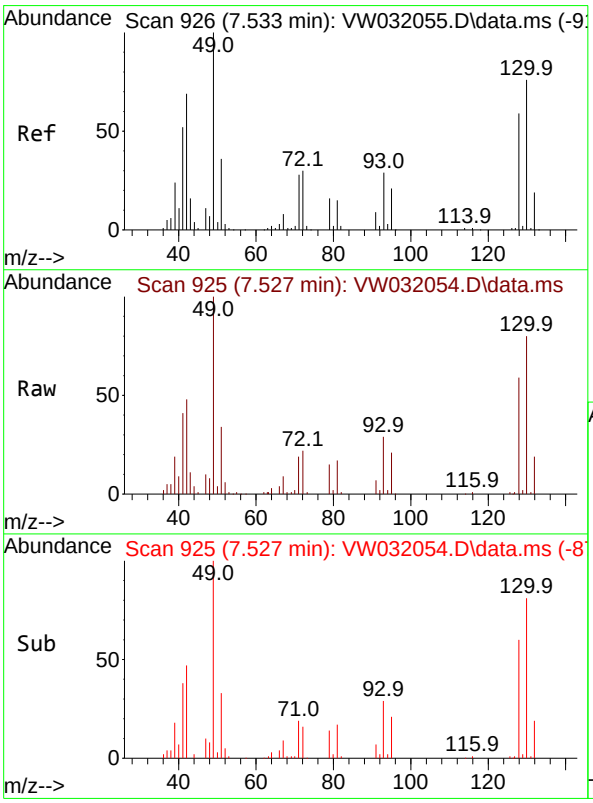
#27
cis-1,2-Dichloroethene
Concen: 20.540 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

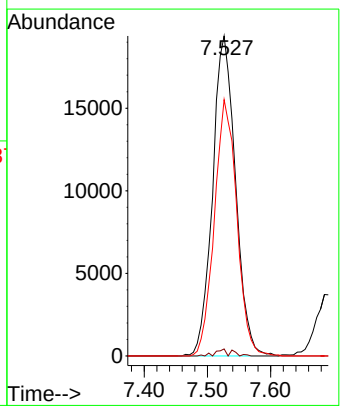


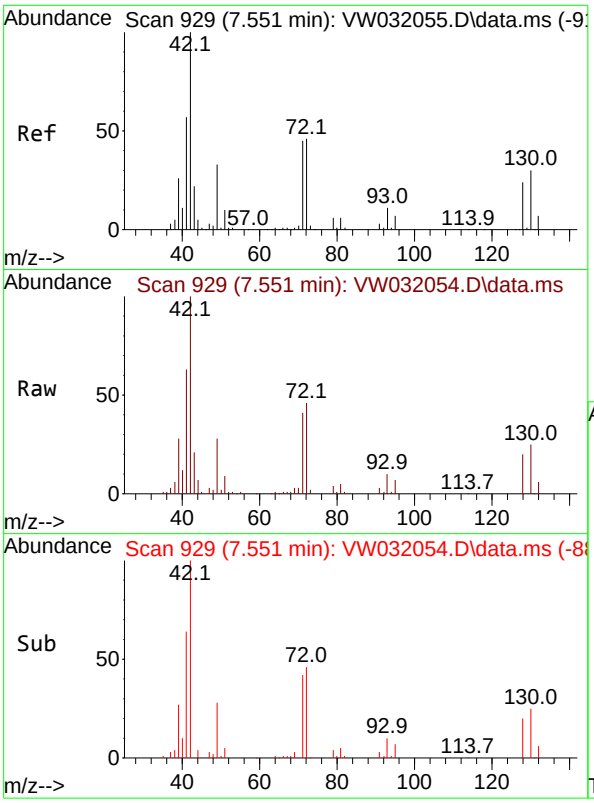


#28
Bromochloromethane
Concen: 20.298 ug/l
RT: 7.527 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



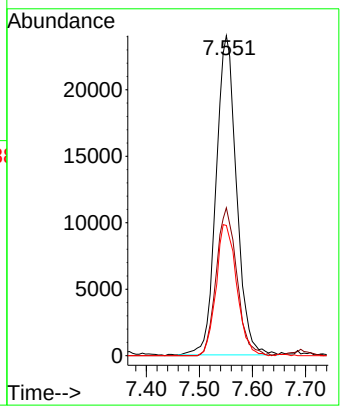


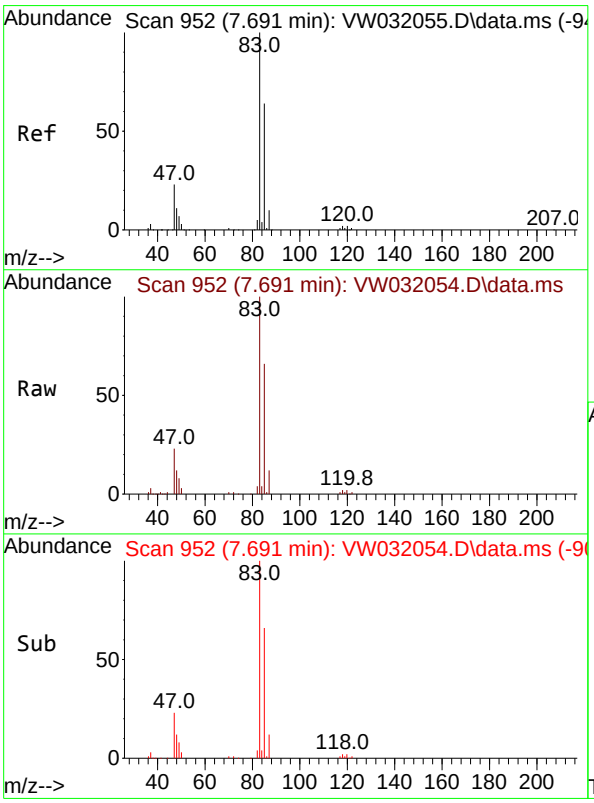
#29
Tetrahydrofuran
Concen: 92.379 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

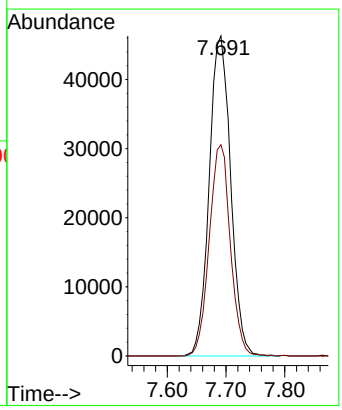


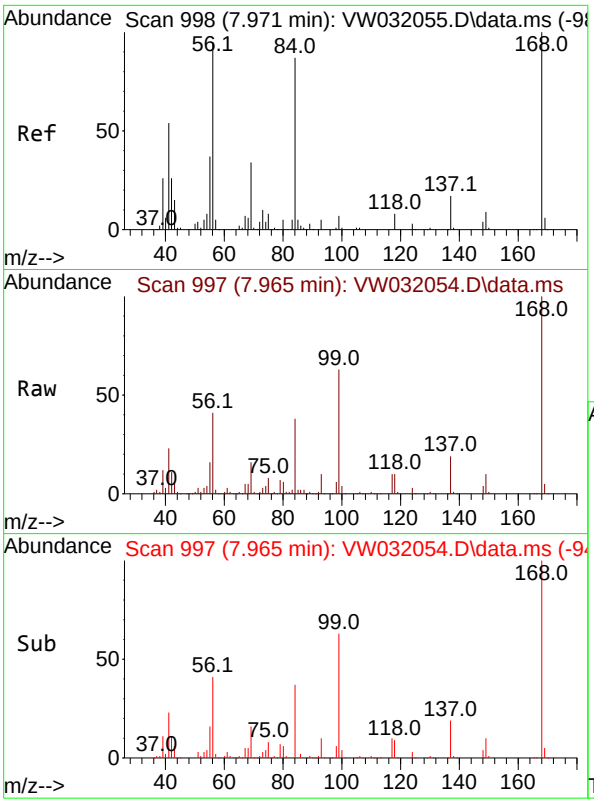


#30
Chloroform
Concen: 21.011 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 117474

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.0	76.4



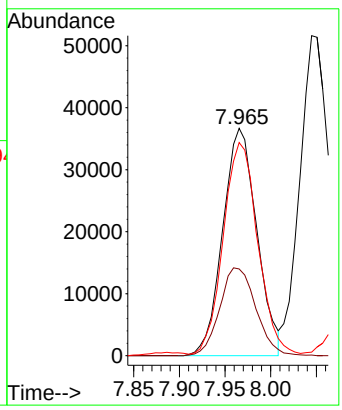


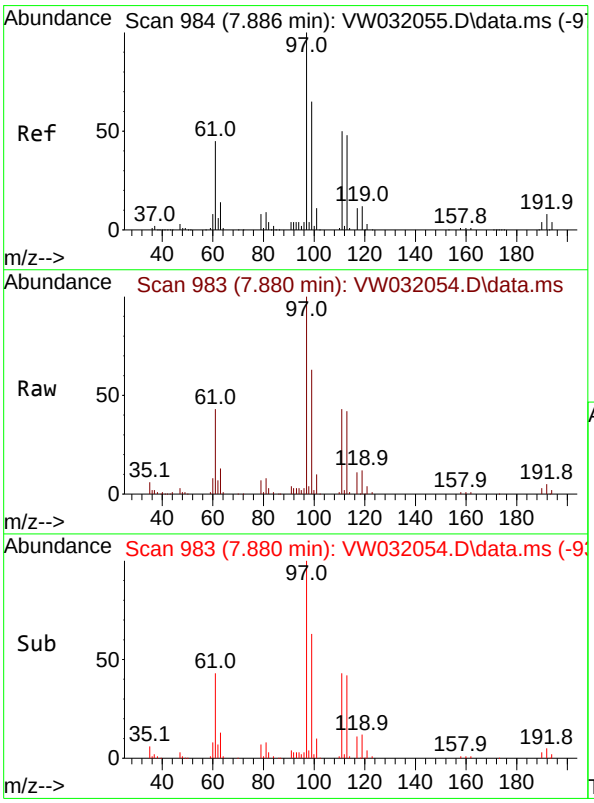
#31
Cyclohexane
Concen: 20.833 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

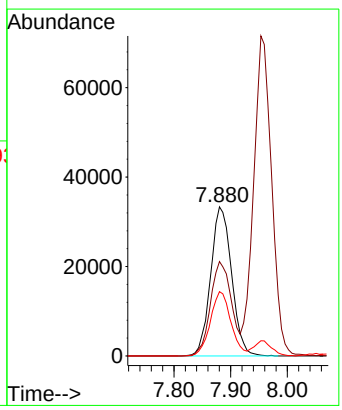


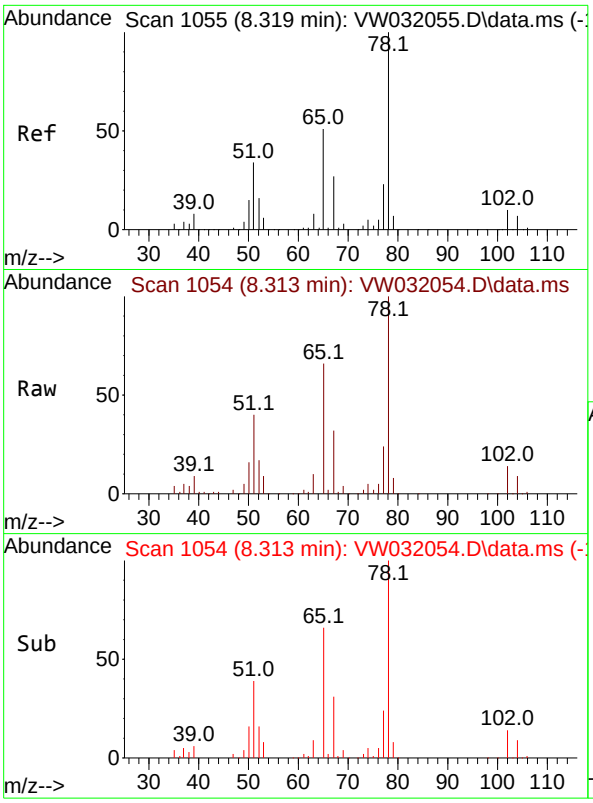


#32
1,1,1-Trichloroethane
Concen: 21.078 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



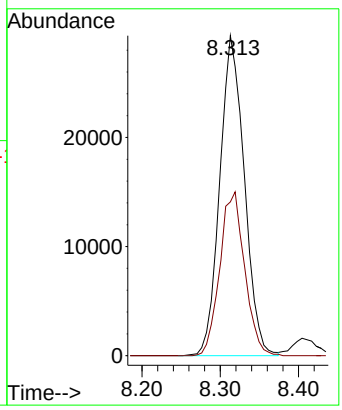


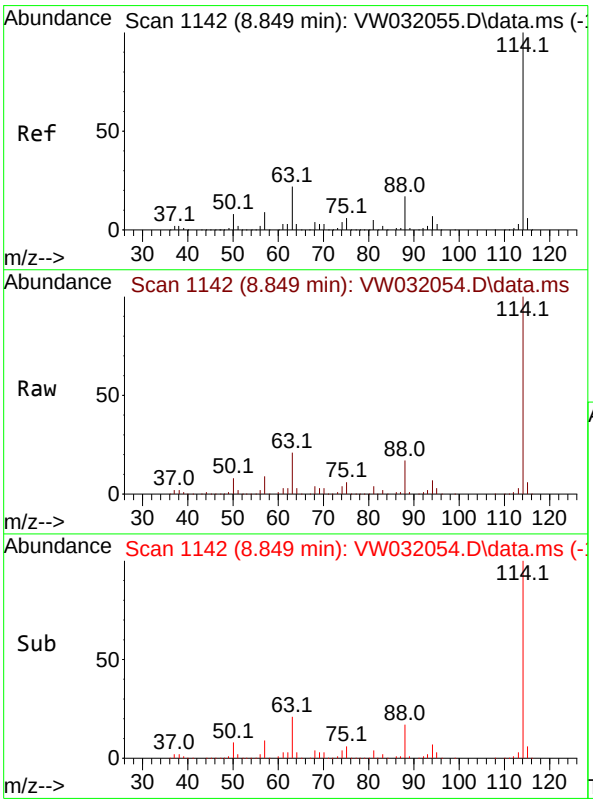
#33
1,2-Dichloroethane-d4
Concen: 19.904 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 63857

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	102.4

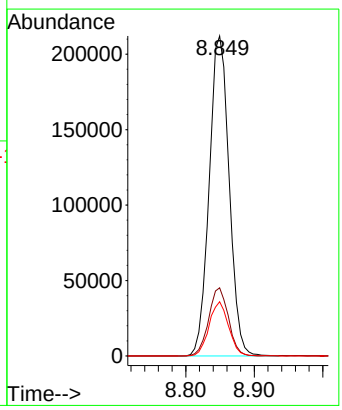


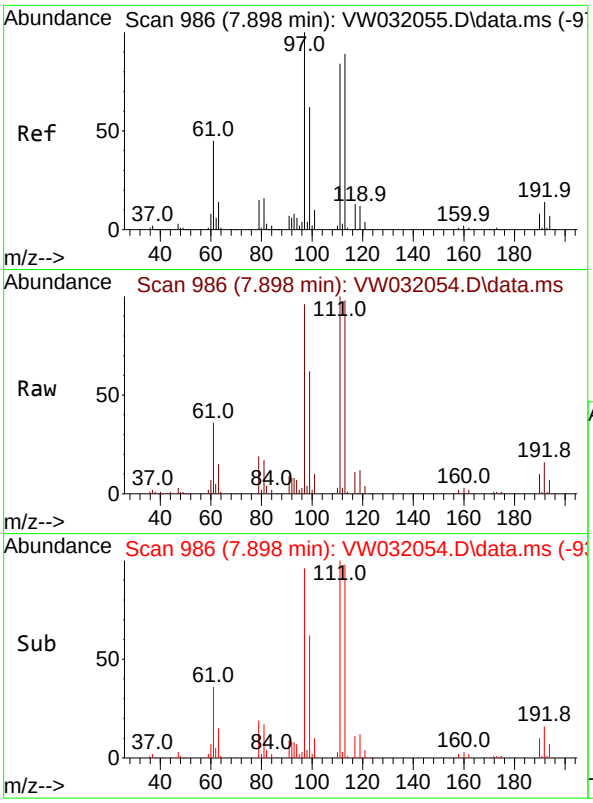


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



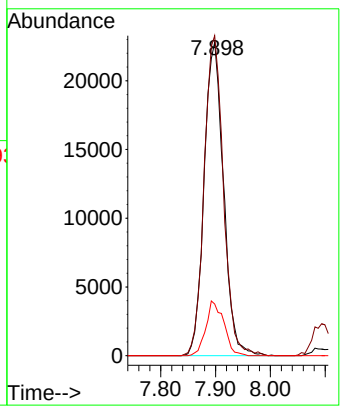


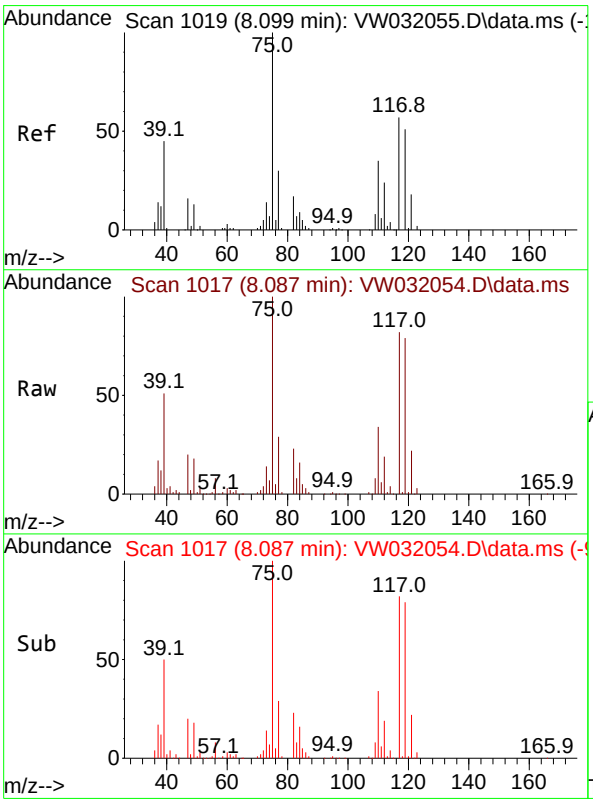
#35
Dibromofluoromethane
Concen: 20.158 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

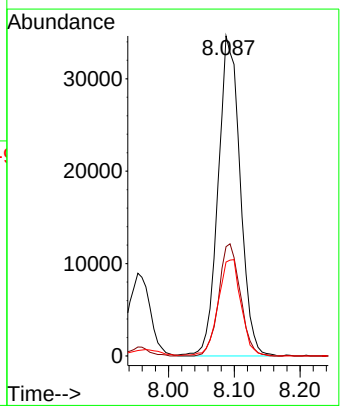


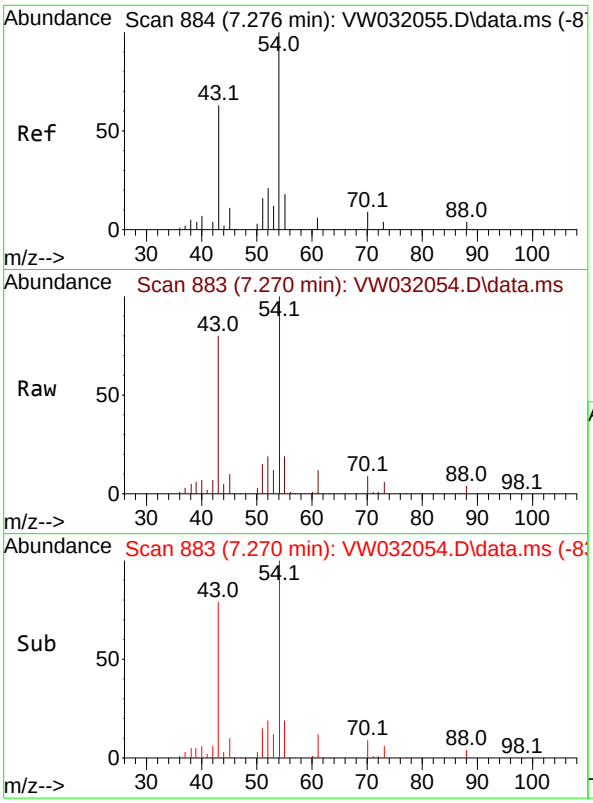


#36
1,1-Dichloropropene
Concen: 20.712 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



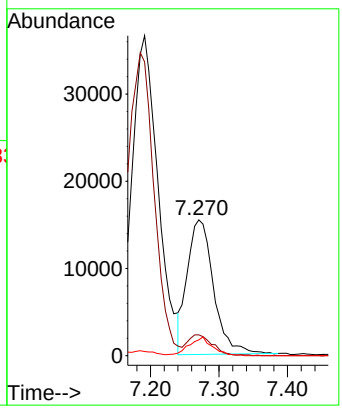


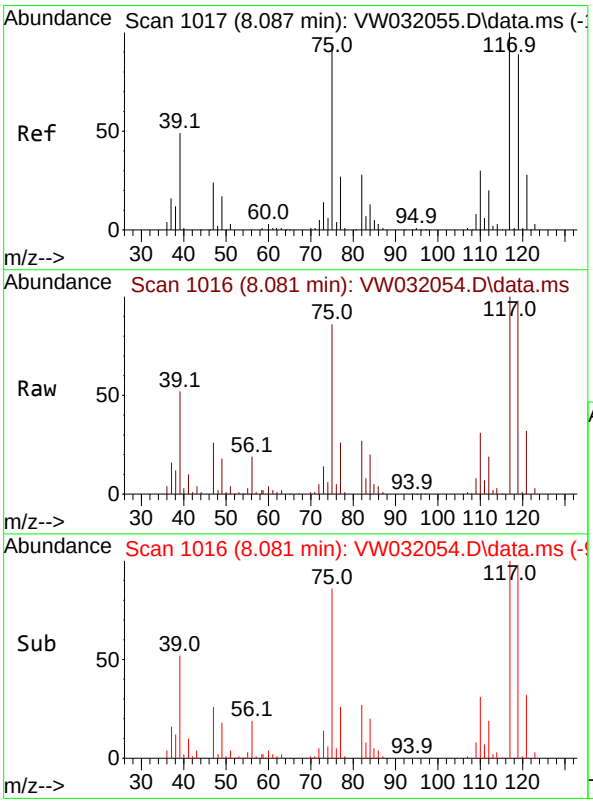
#37
Ethyl Acetate
Concen: 17.945 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

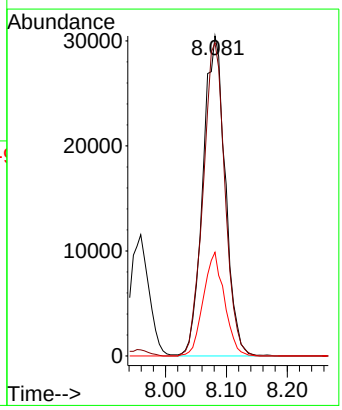


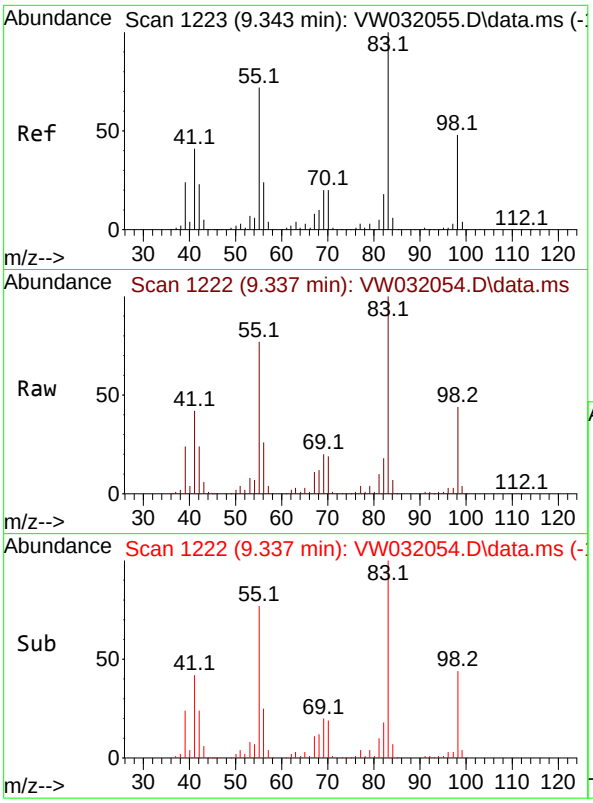


#38
Carbon Tetrachloride
Concen: 20.527 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



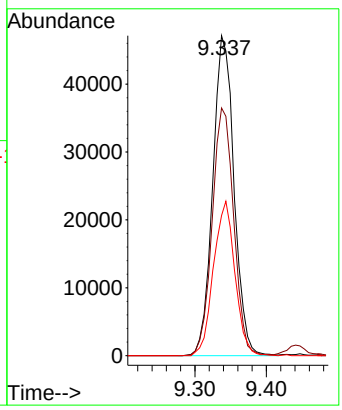


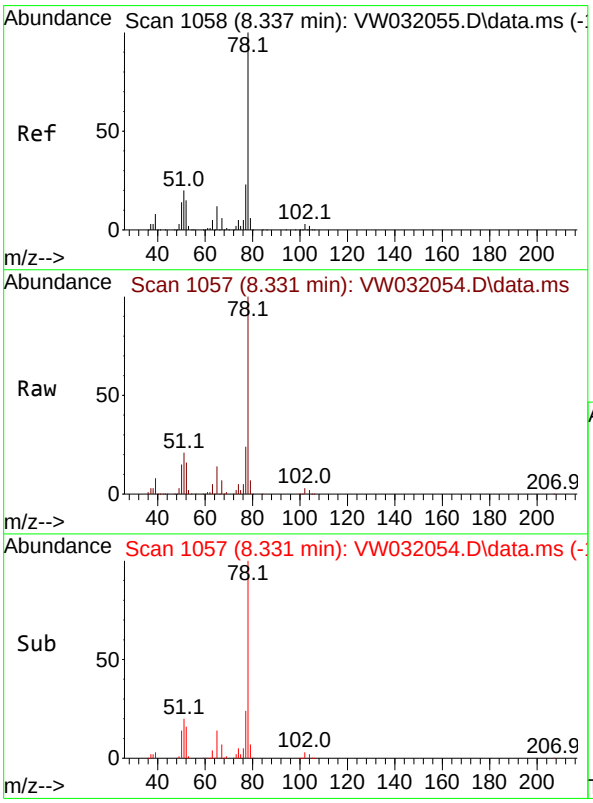
#39
Methylcyclohexane
Concen: 20.484 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

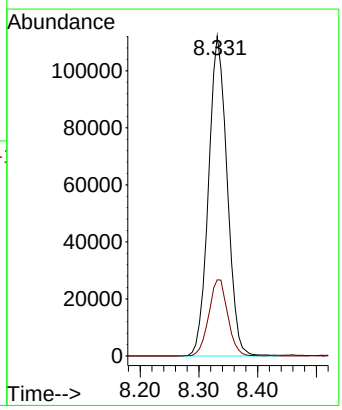


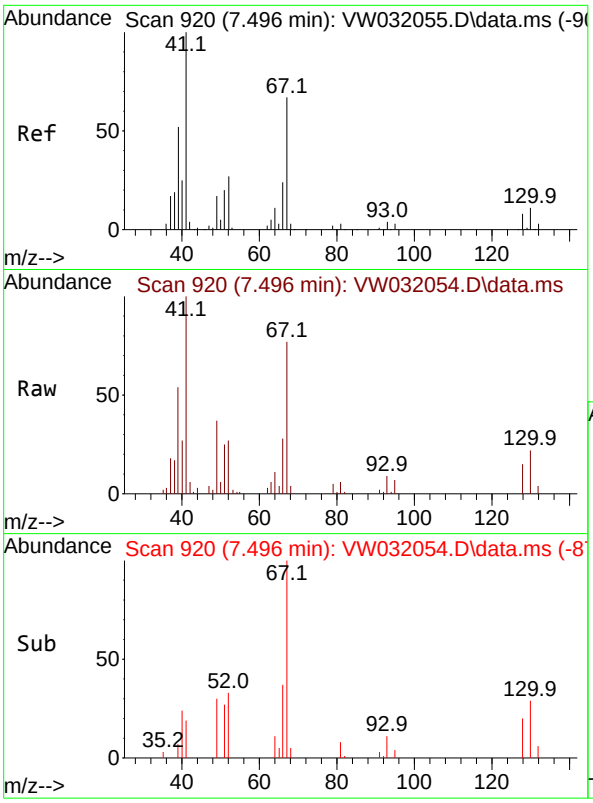


#40
Benzene
Concen: 20.333 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 78 Resp: 246590

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.4	27.6



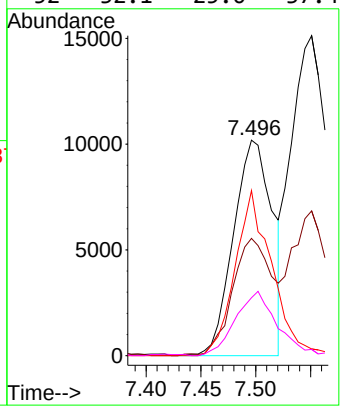


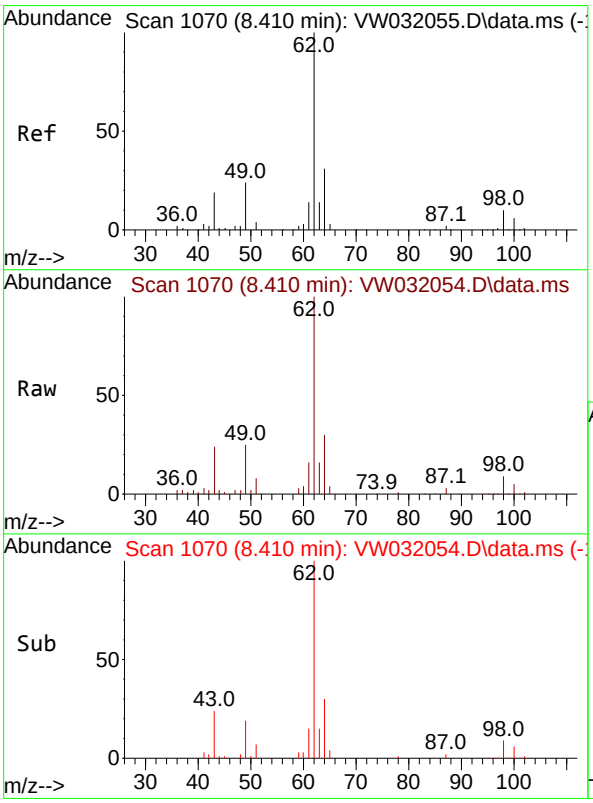
#41
Methacrylonitrile
Concen: 19.242 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

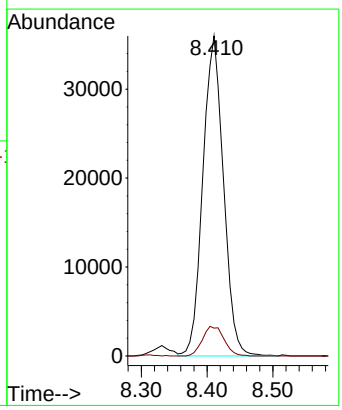


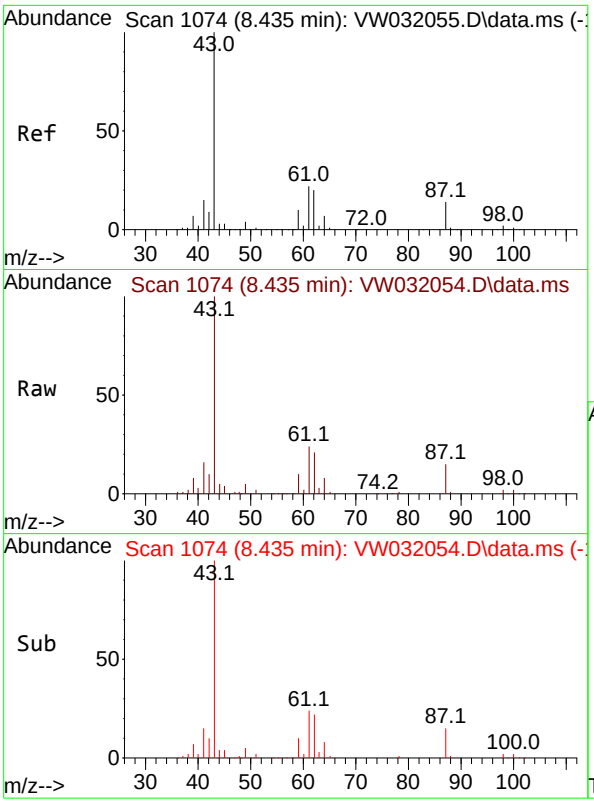


#42
1,2-Dichloroethane
Concen: 20.239 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 78543

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.8



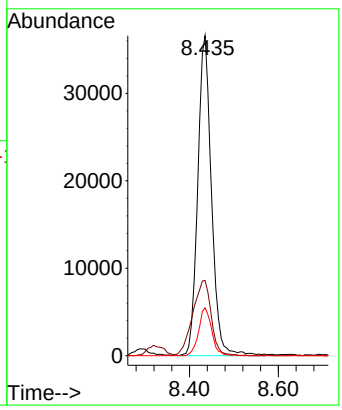


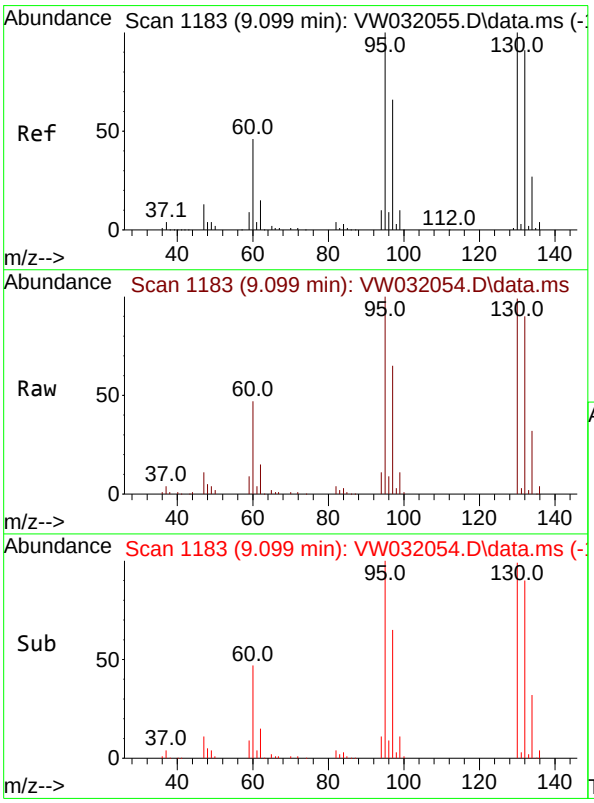
#43
Isopropyl Acetate
Concen: 18.660 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

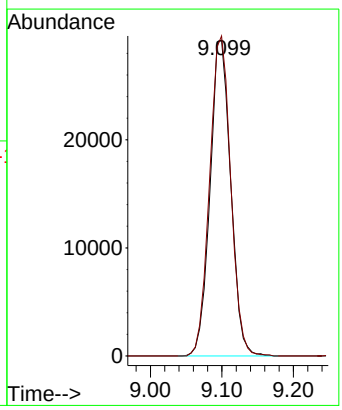


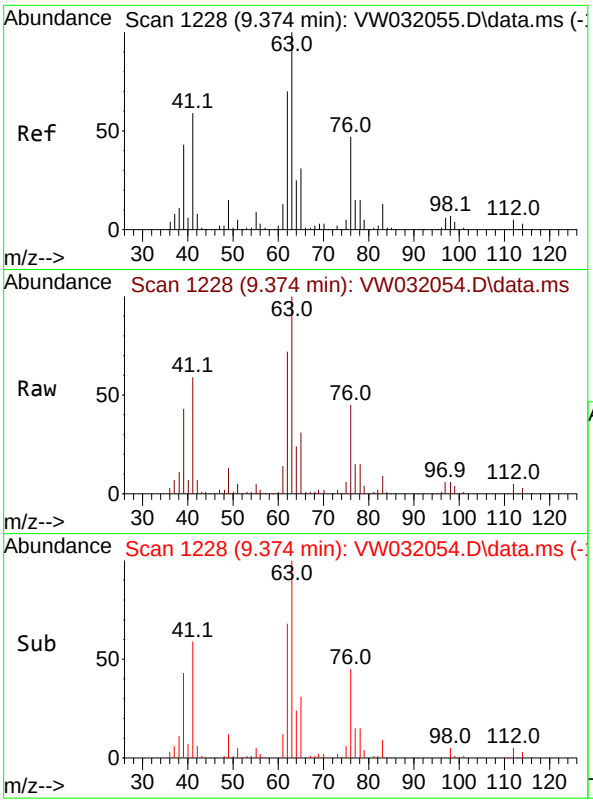


#44
Trichloroethene
Concen: 20.302 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:130 Resp: 58636

Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	200.6



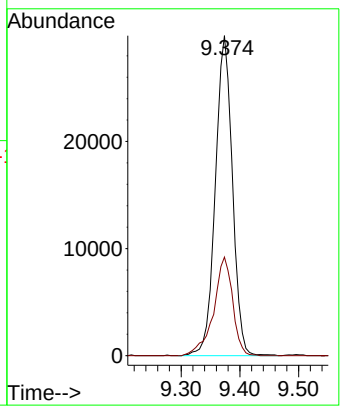


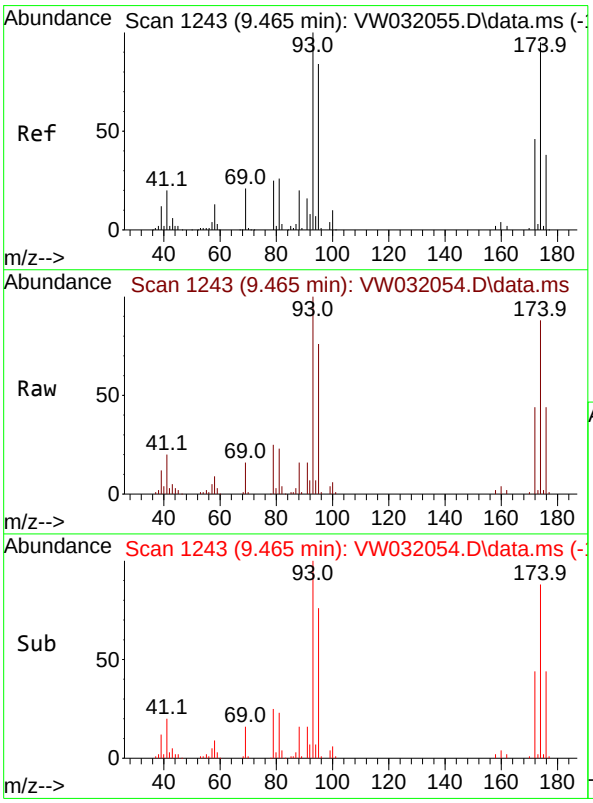
#45
1,2-Dichloropropane
Concen: 20.597 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 60346

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.6	36.8

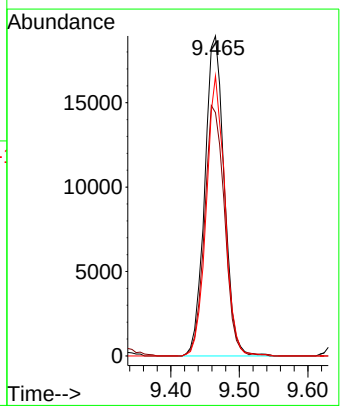


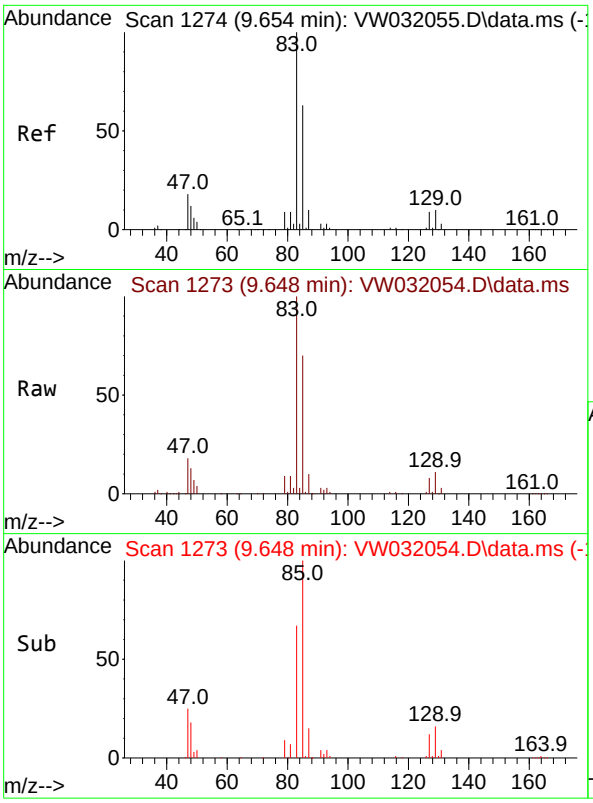


#46
Dibromomethane
Concen: 19.873 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



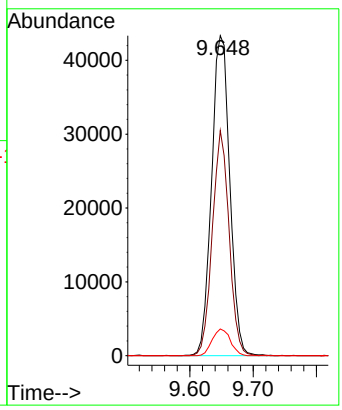


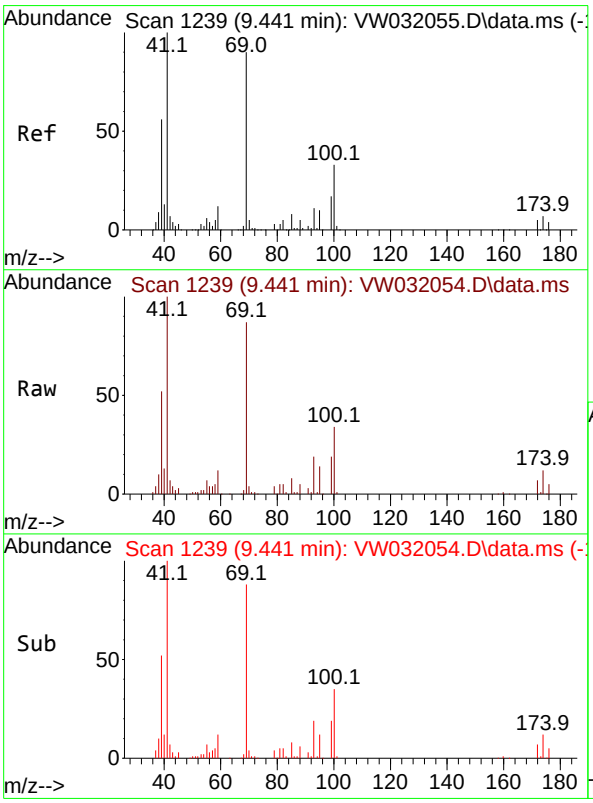
#47
Bromodichloromethane
Concen: 19.869 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

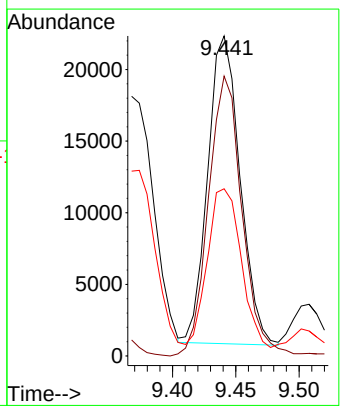


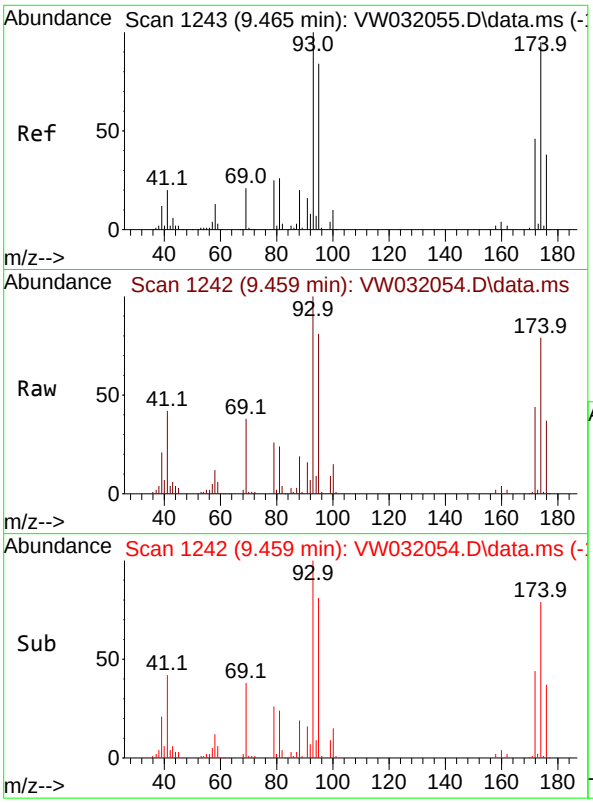


#48
Methyl methacrylate
Concen: 18.704 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



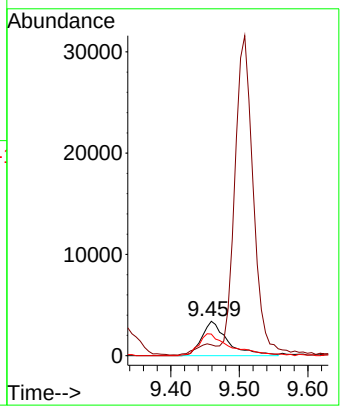


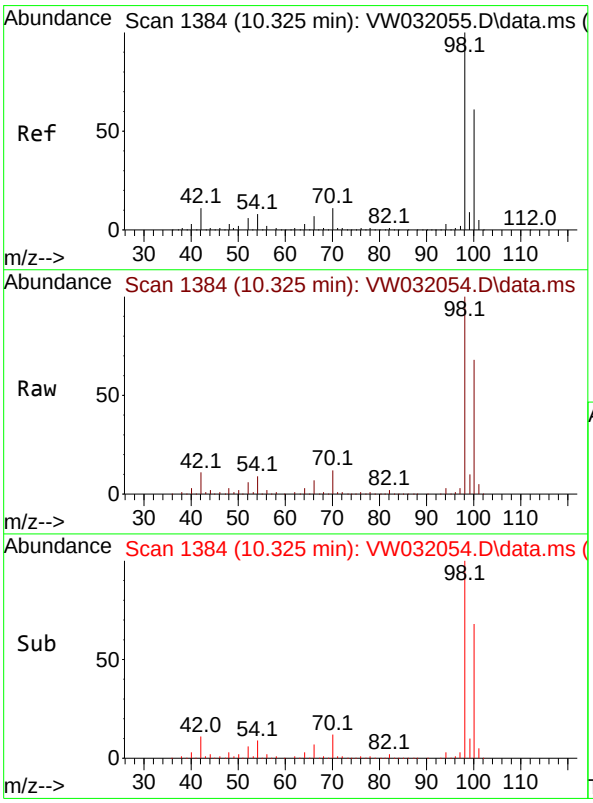
#49
1,4-Dioxane
Concen: 364.998 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

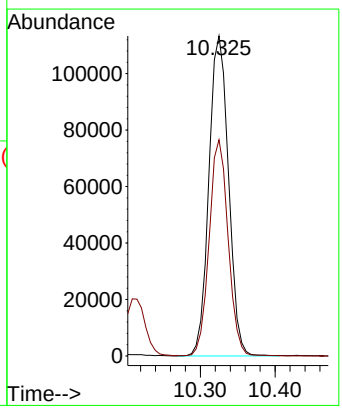


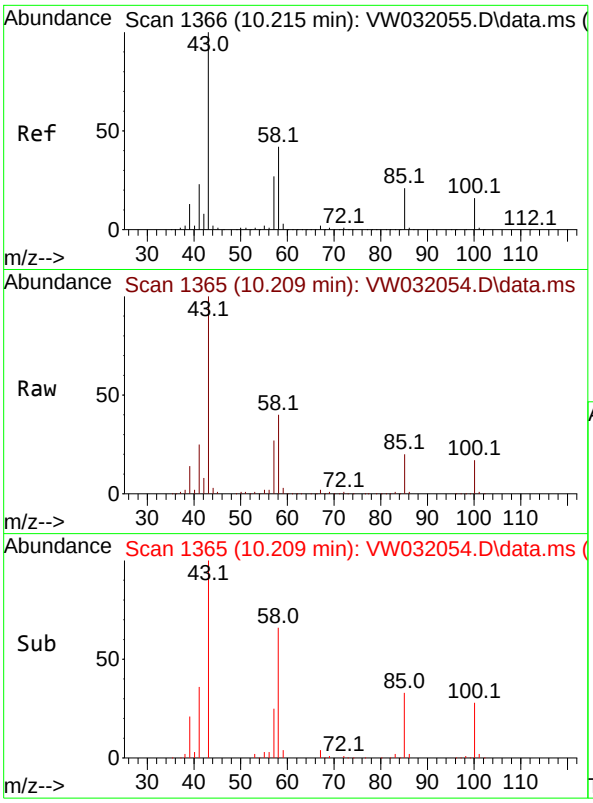


#50
Toluene-d8
Concen: 20.212 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 98 Resp: 206901

Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.1	76.7



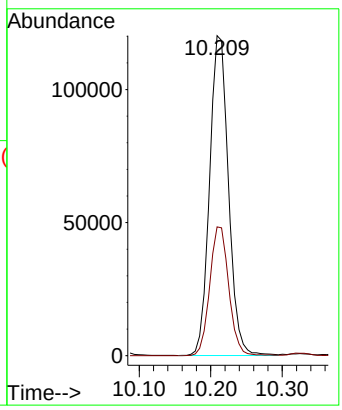


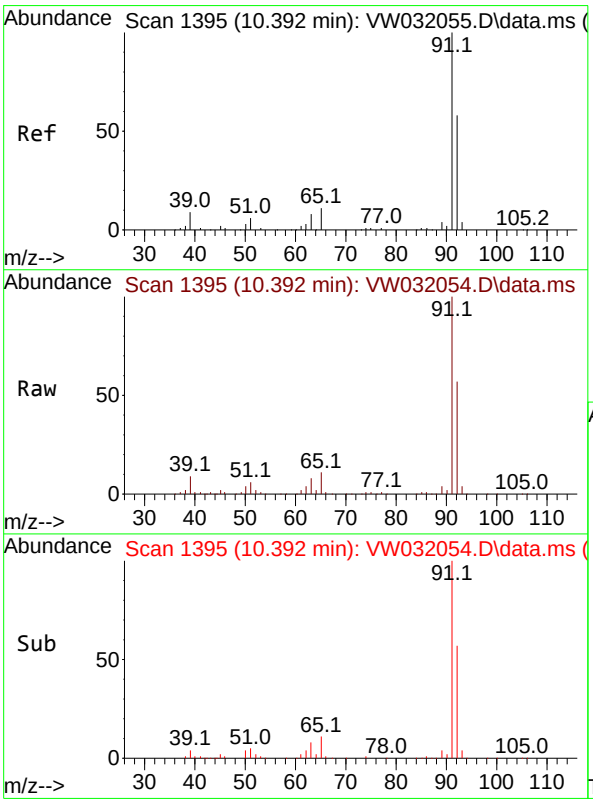
#51
4-Methyl-2-Pentanone
Concen: 92.472 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 220661

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.1	49.7

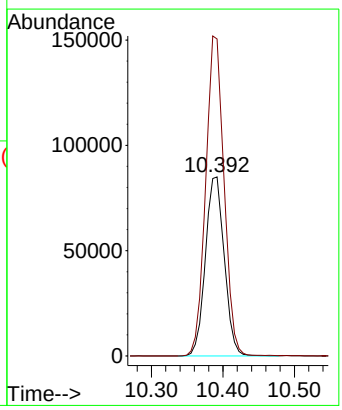


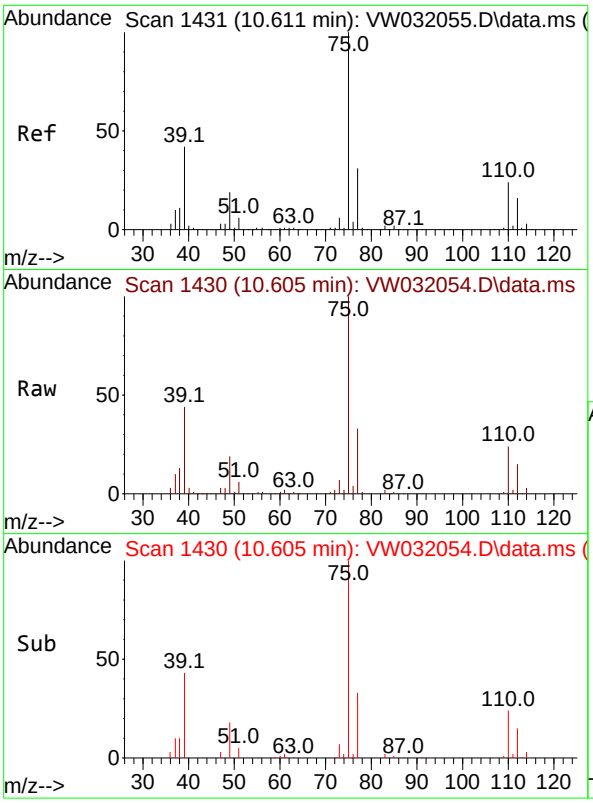


#52
Toluene
Concen: 20.418 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 92 Resp: 155974

Ion	Ratio	Lower	Upper
92	100		
91	173.6	136.3	204.5



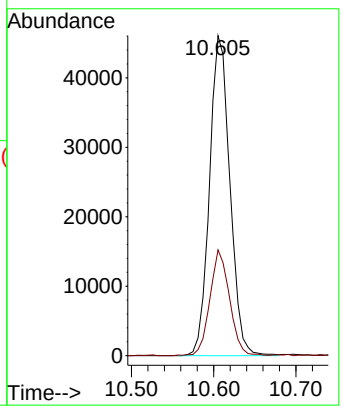


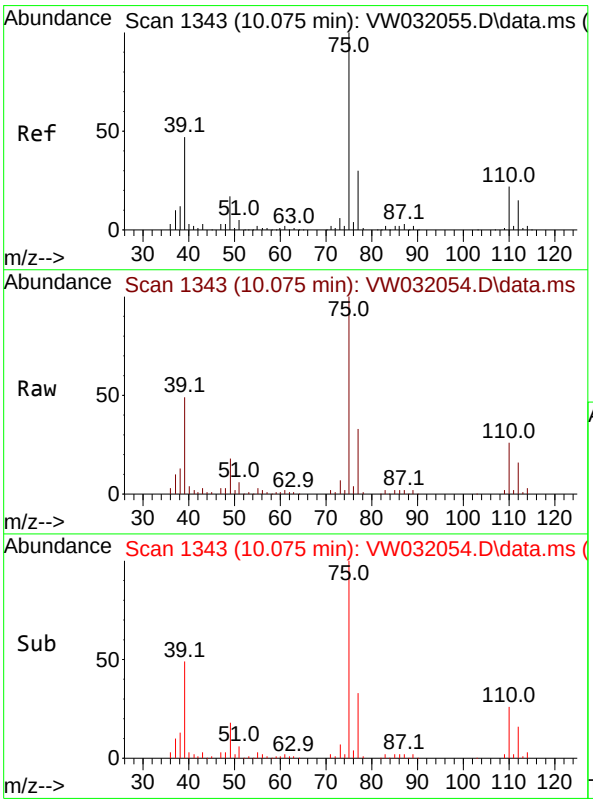
#53
t-1,3-Dichloropropene
Concen: 19.463 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 79452

Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.0	37.6

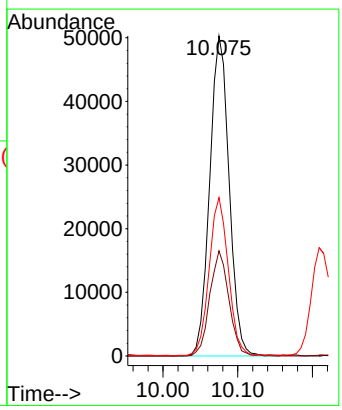


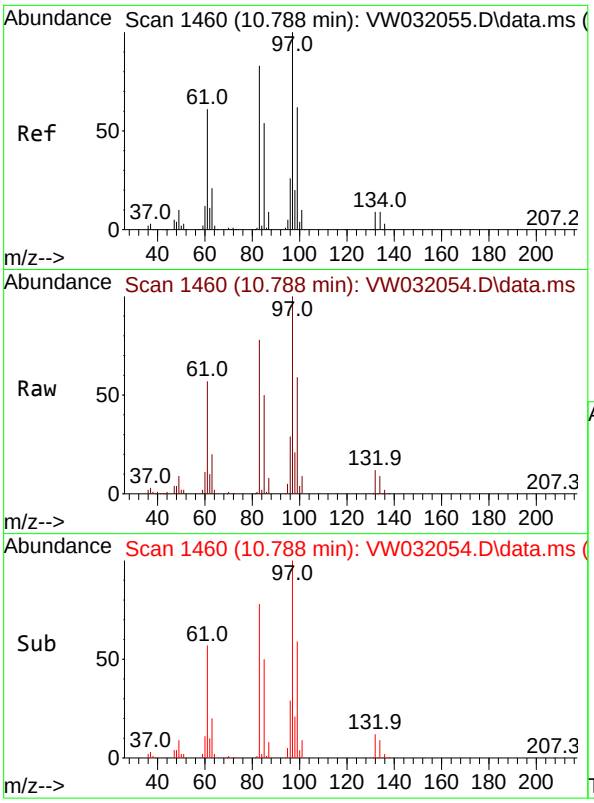


#54
cis-1,3-Dichloropropene
Concen: 19.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



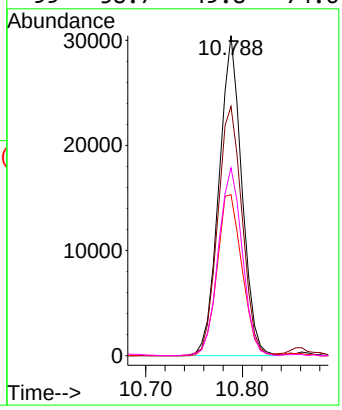


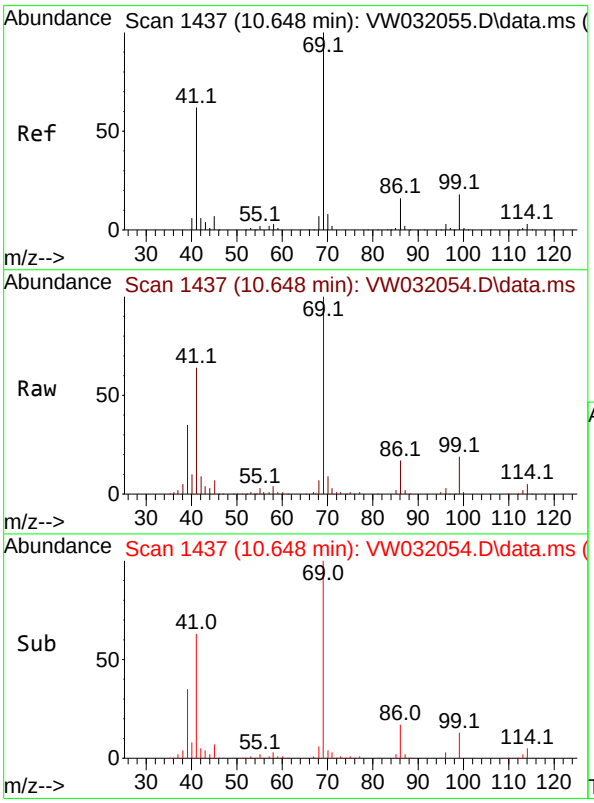
#55
1,1,2-Trichloroethane
Concen: 19.888 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

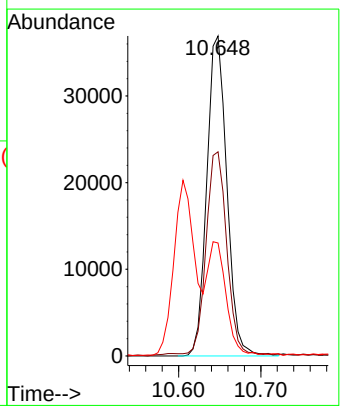


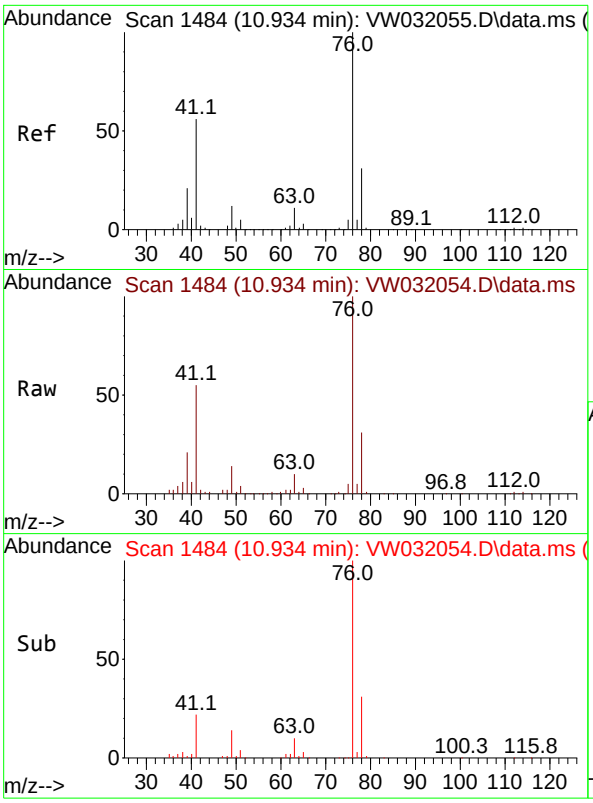


#56
Ethyl methacrylate
Concen: 18.645 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



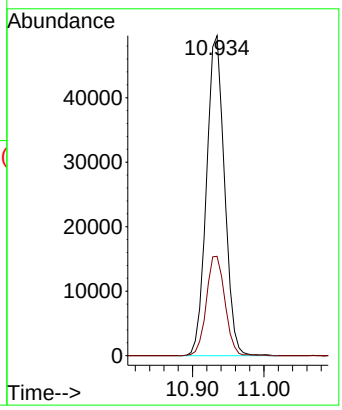


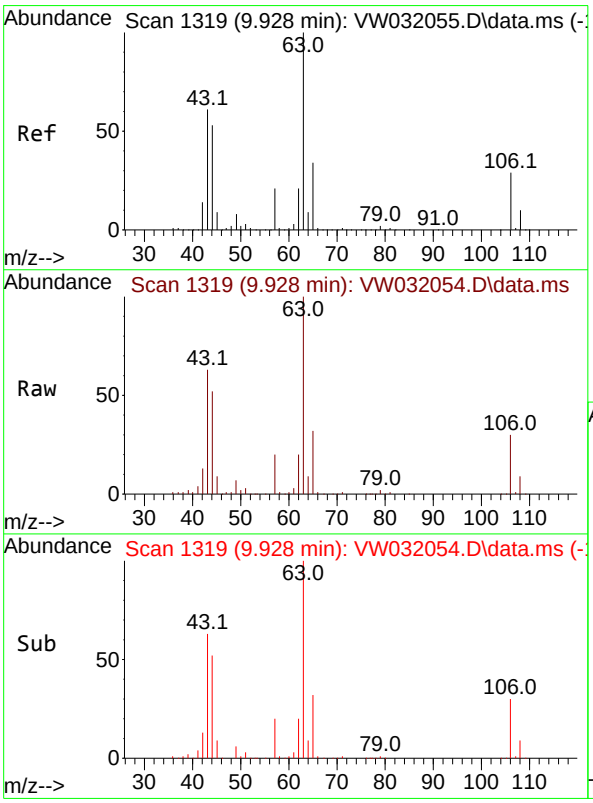
#57
1,3-Dichloropropane
Concen: 19.790 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 86678

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

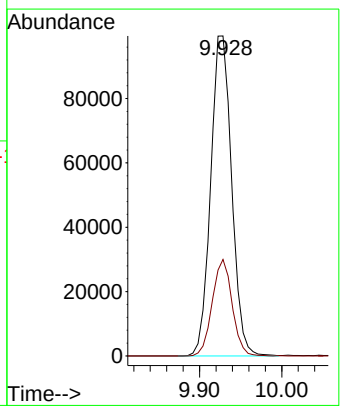


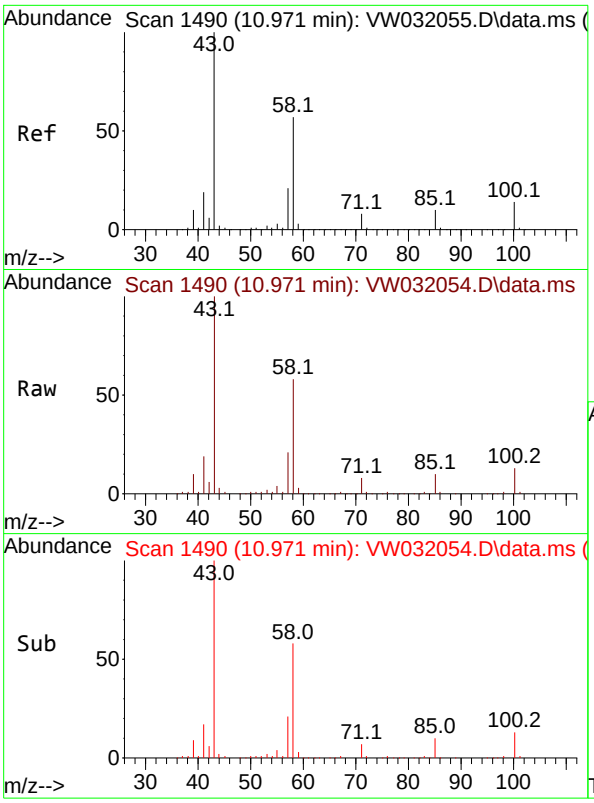


#58
2-Chloroethyl Vinyl ether
Concen: 94.809 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 176339

Ion	Ratio	Lower	Upper
63	100		
106	28.5	23.5	35.3



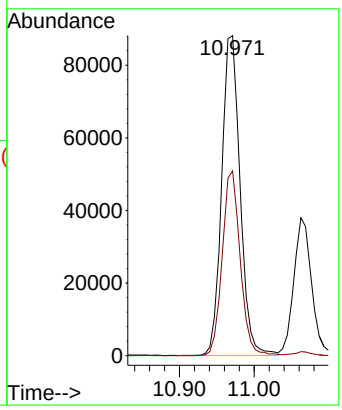


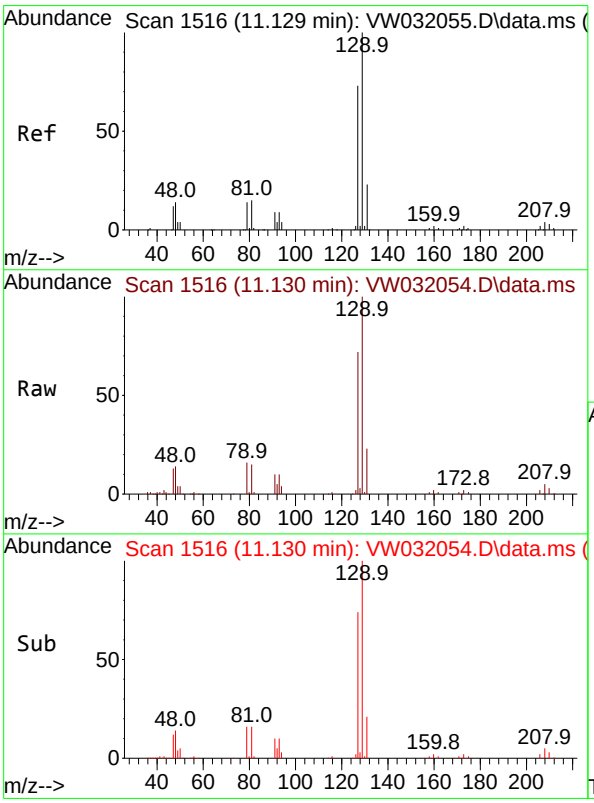
#59
2-Hexanone
Concen: 91.530 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 151264

Ion	Ratio	Lower	Upper
43	100		
58	56.4	28.3	85.0

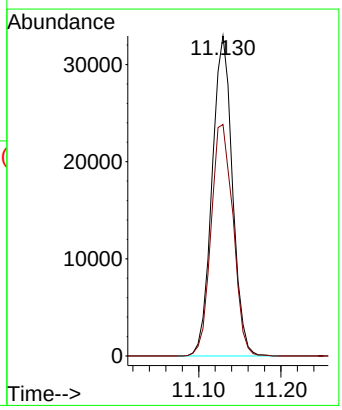


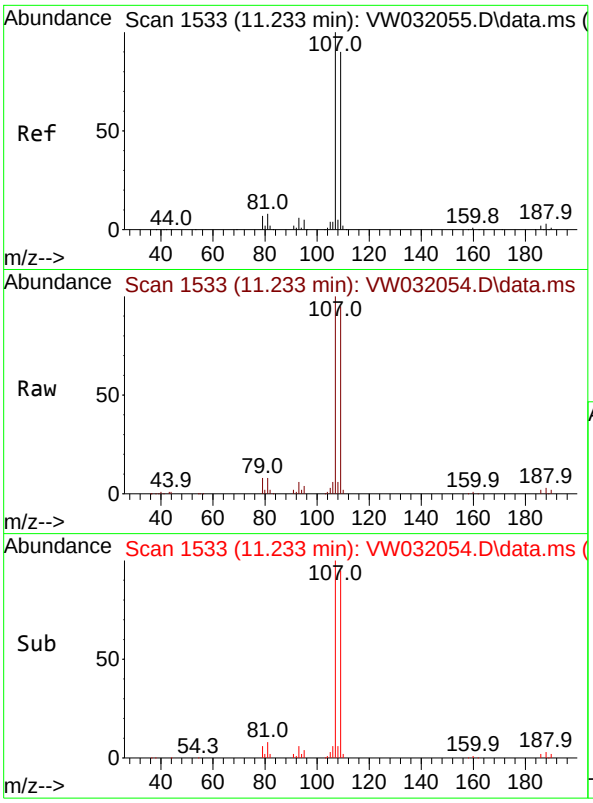


#60
Dibromochloromethane
Concen: 19.721 ug/l
RT: 11.130 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:129 Resp: 56607

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.0	116.9



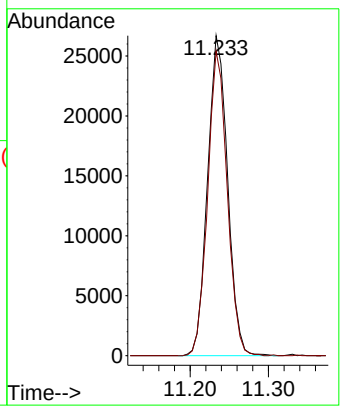


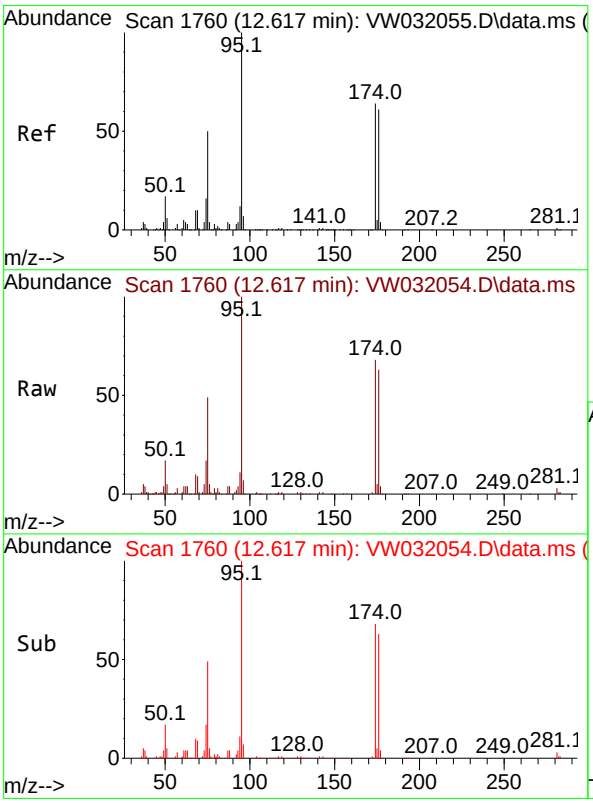
#61
1,2-Dibromoethane
Concen: 19.371 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 47302

Ion	Ratio	Lower	Upper
107	100		
109	93.0	74.2	111.4

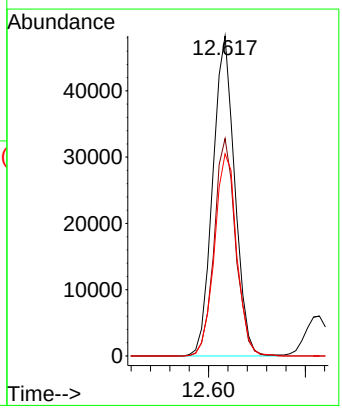


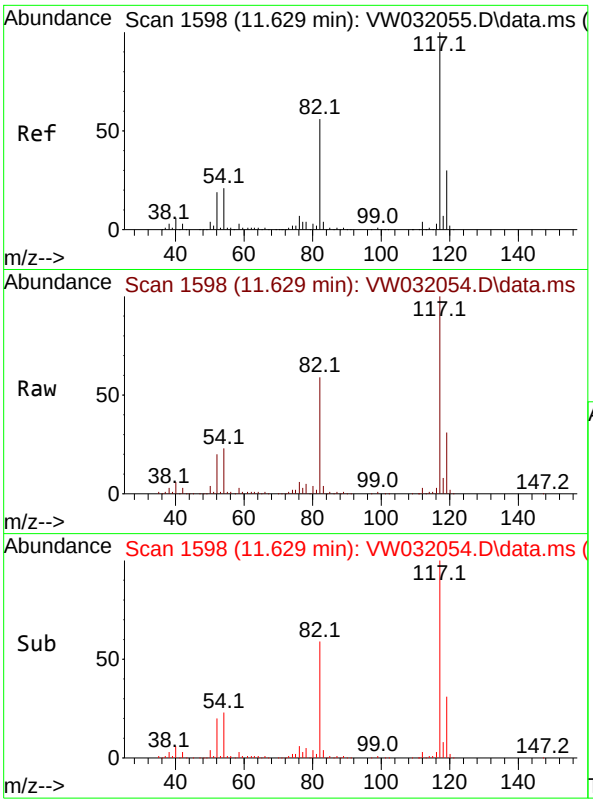


#62
4-Bromofluorobenzene
Concen: 20.149 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



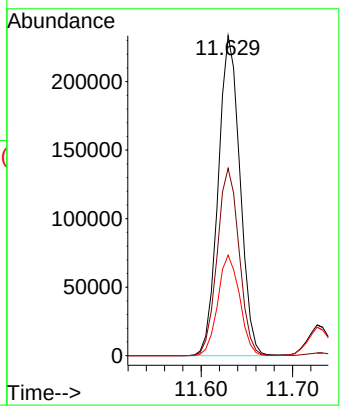


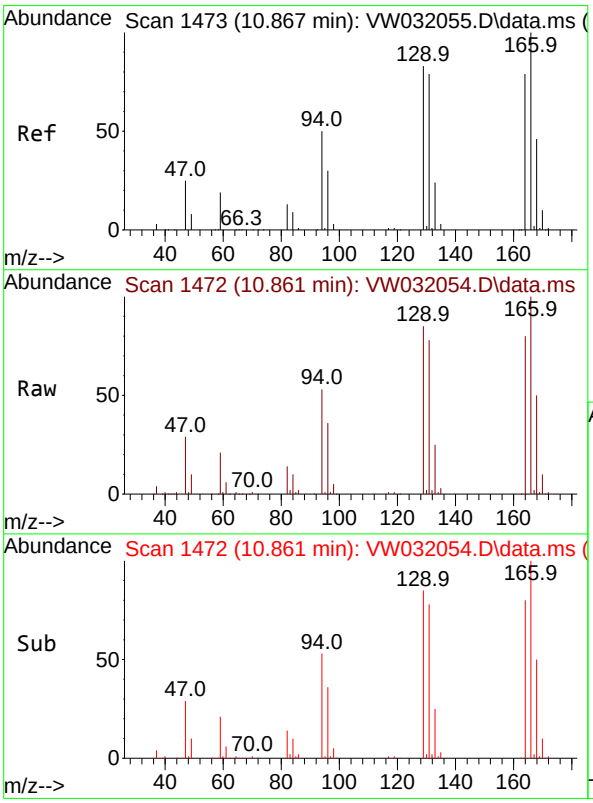
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

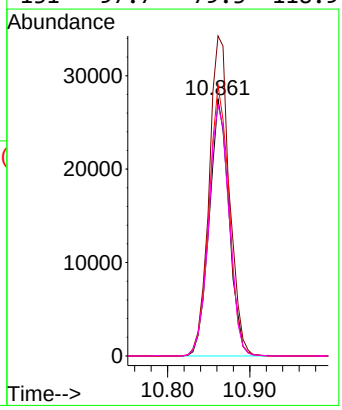


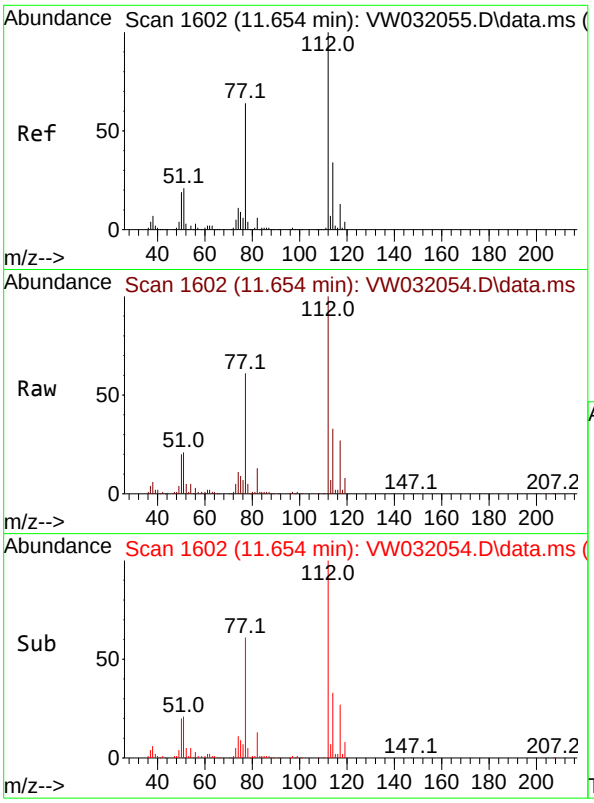


#64
Tetrachloroethene
Concen: 20.434 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



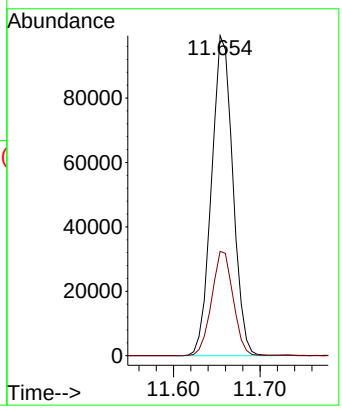


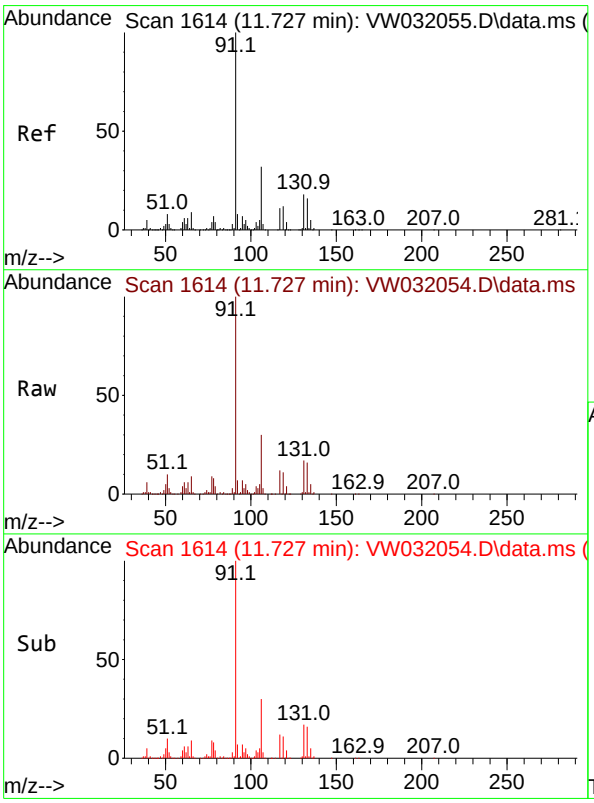
#65
Chlorobenzene
Concen: 20.169 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 169830

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.9	40.3

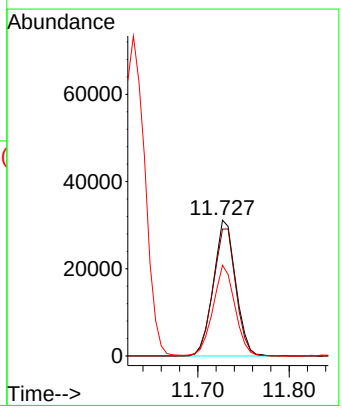


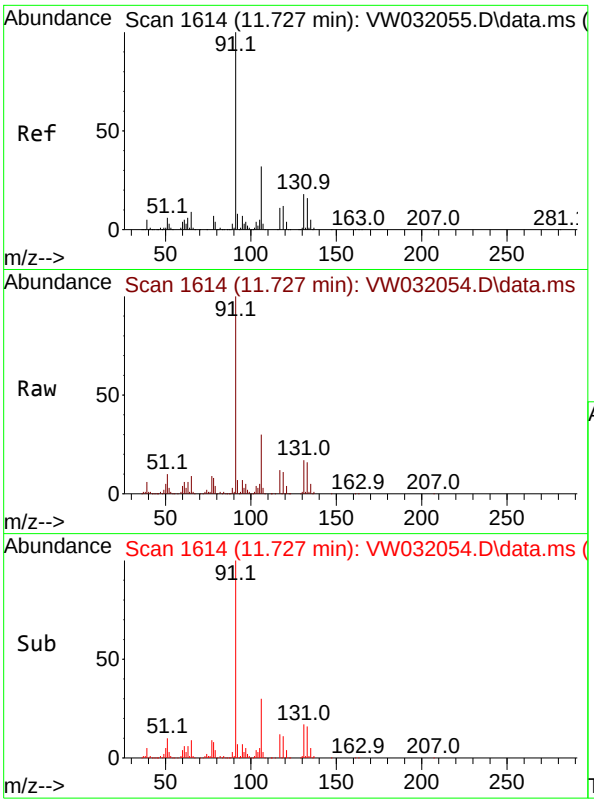


#66
1,1,1,2-Tetrachloroethane
Concen: 20.150 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



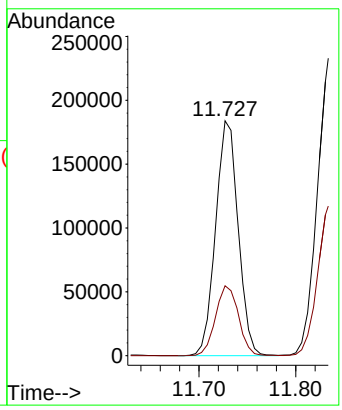


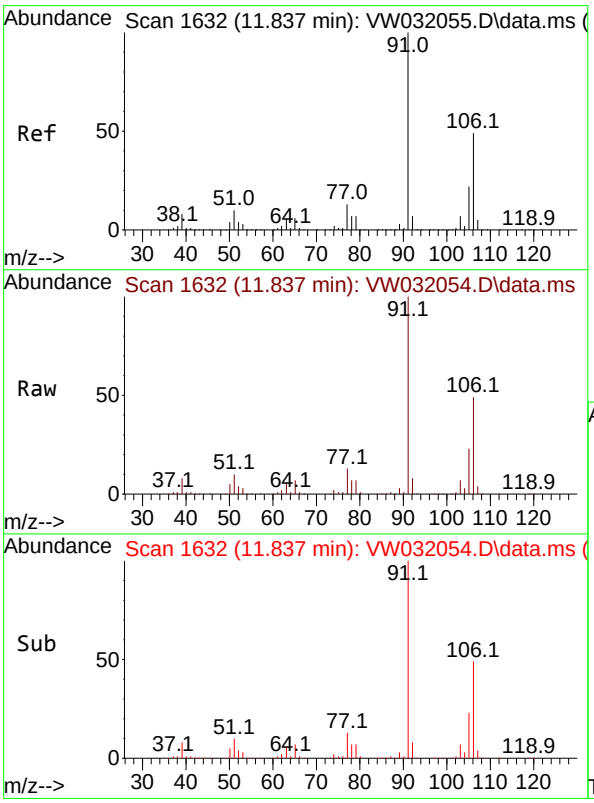
#67
Ethyl Benzene
Concen: 20.836 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 297193

Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.4	38.0

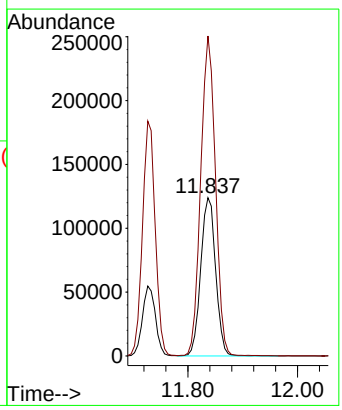


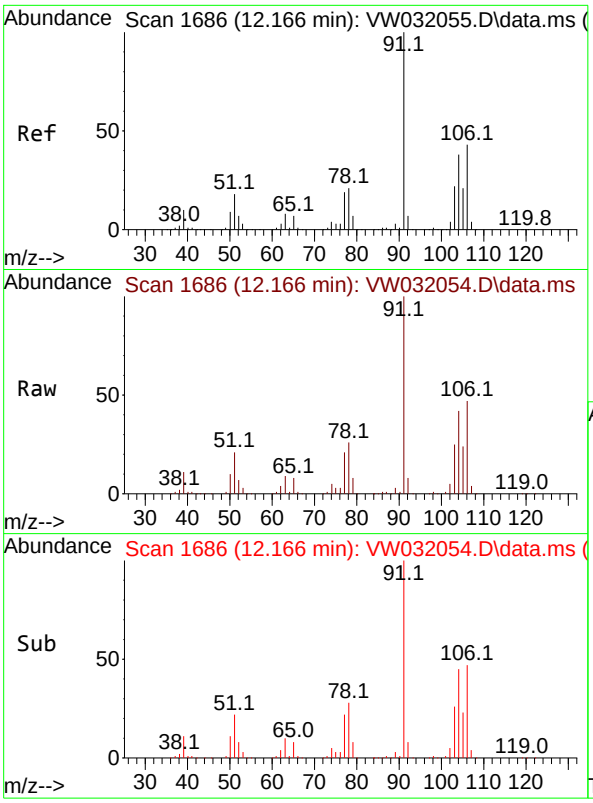


#68
m/p-Xylenes
Concen: 42.376 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 233224

Ion	Ratio	Lower	Upper
106	100		
91	199.8	162.2	243.2



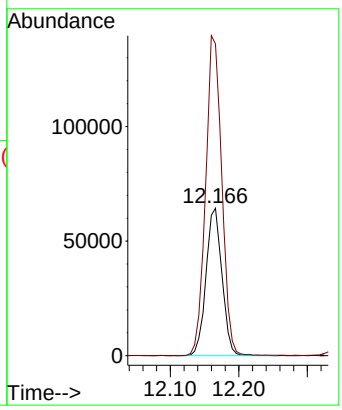


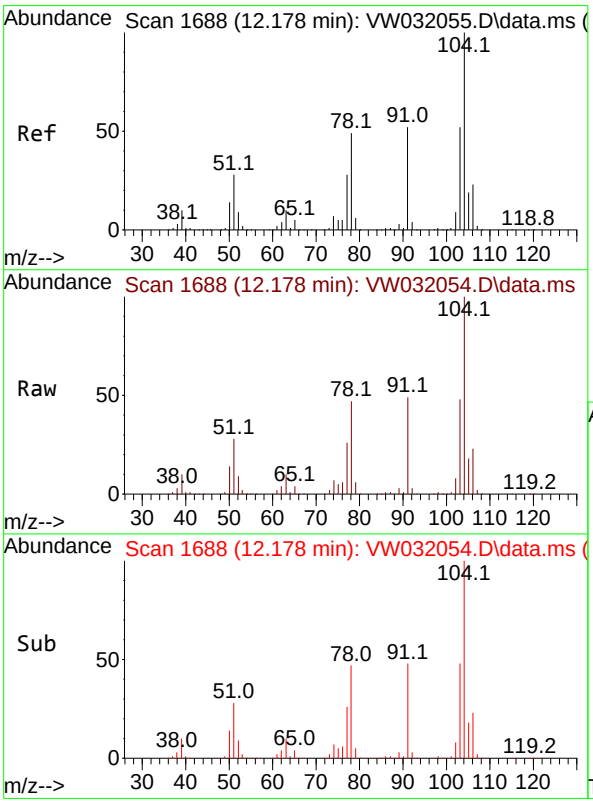
#69
o-Xylene
Concen: 20.482 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 104192

Ion	Ratio	Lower	Upper
106	100		
91	220.7	110.8	332.3

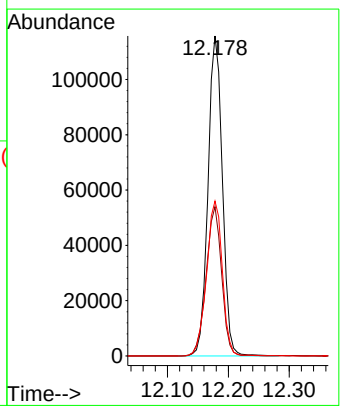


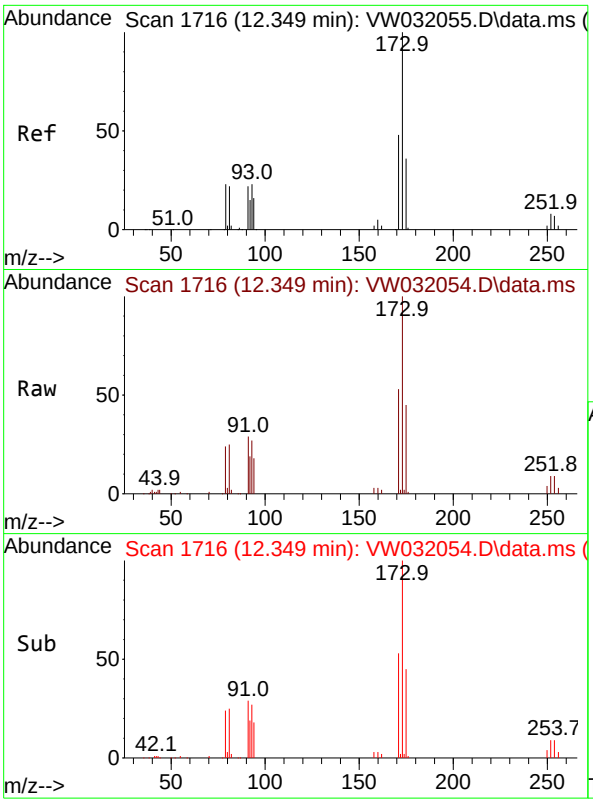


#70
Styrene
Concen: 20.991 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



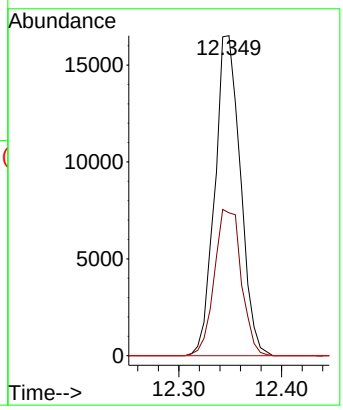


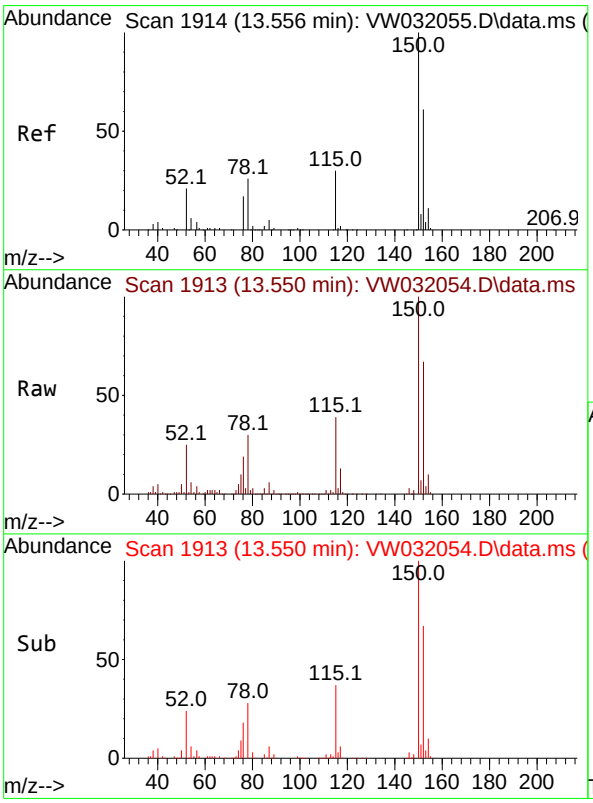
#71
Bromoform
Concen: 18.991 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

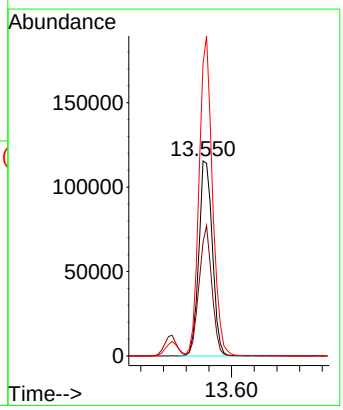


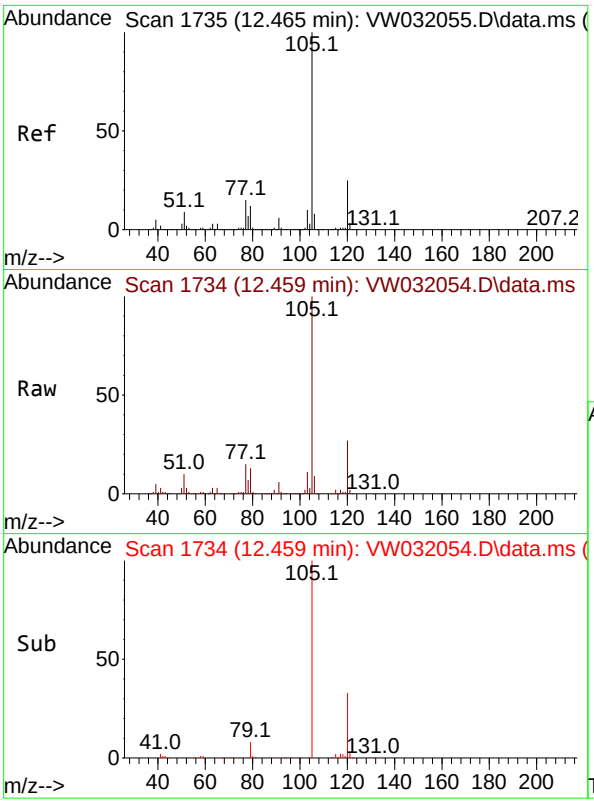


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



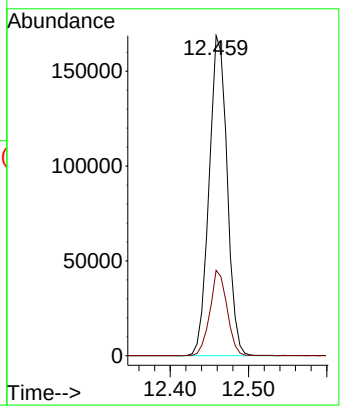


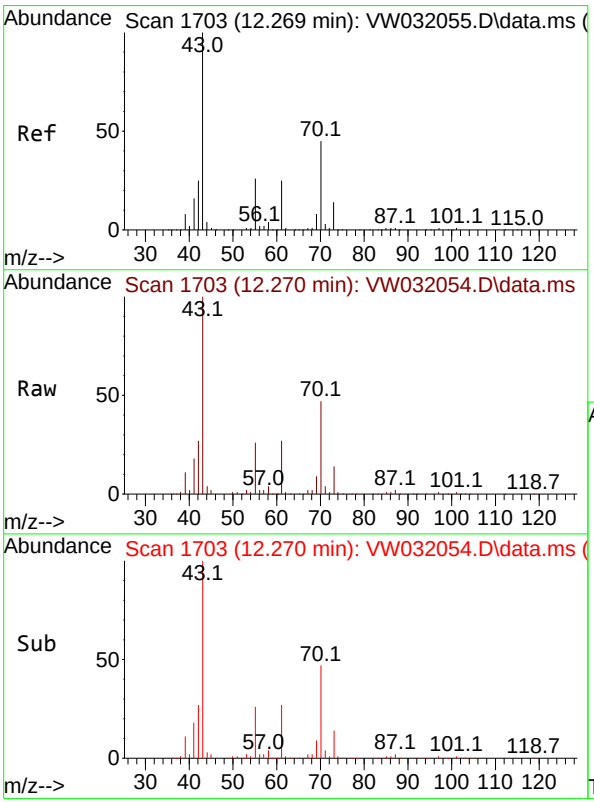
#73
Isopropylbenzene
Concen: 20.178 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 269829

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.8	38.4

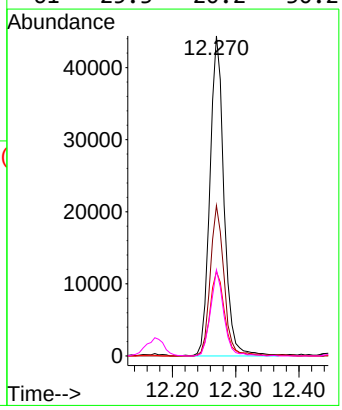


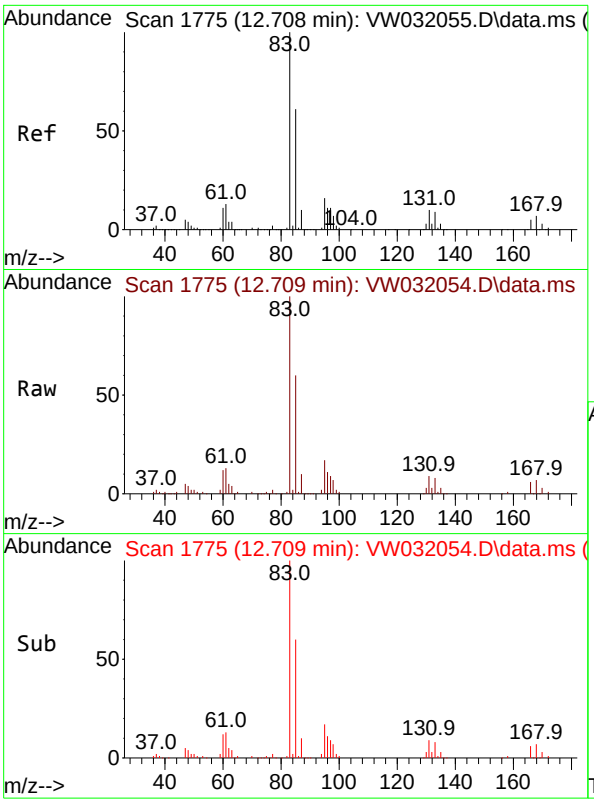


#74
N-amyl acetate
Concen: 18.005 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



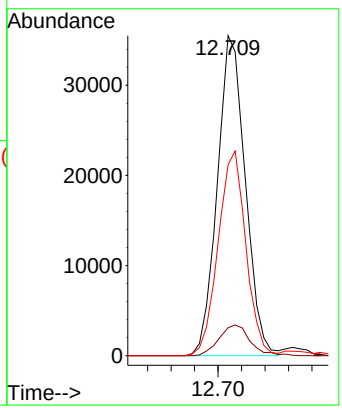


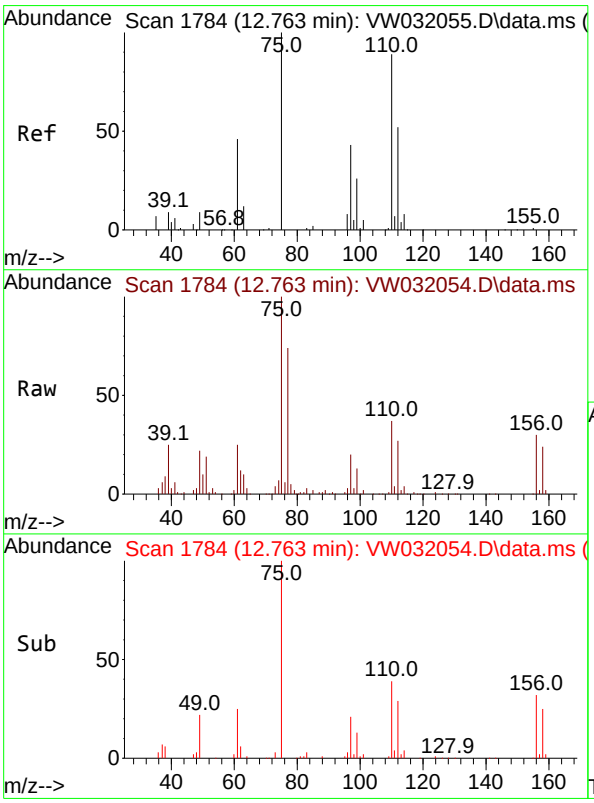
#75
1,1,2,2-Tetrachloroethane
Concen: 18.531 ug/l
RT: 12.709 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

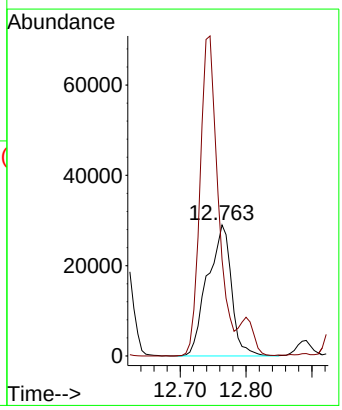


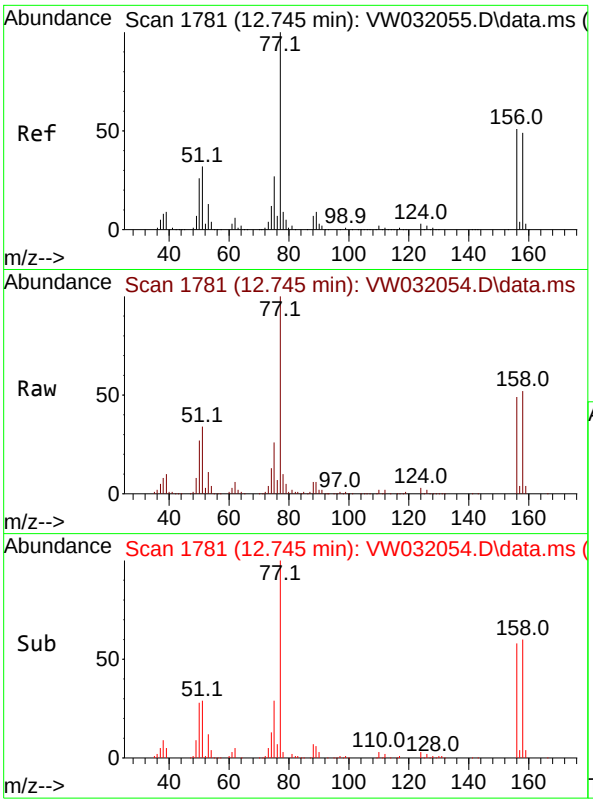


#76
1,2,3-Trichloropropane
Concen: 25.017 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 73585

Ion	Ratio	Lower	Upper
75	100		
77	183.8	123.5	370.5



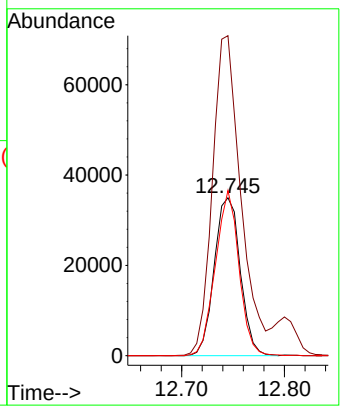


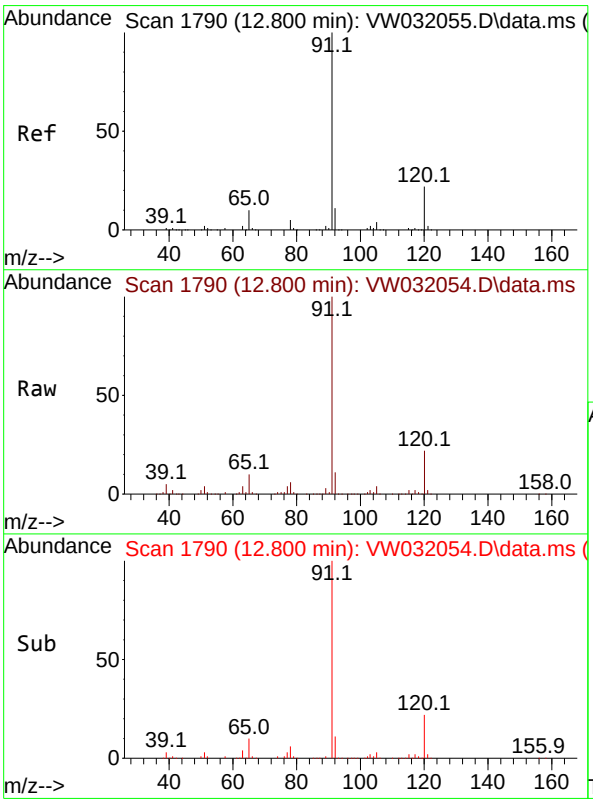
#77
Bromobenzene
Concen: 19.221 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

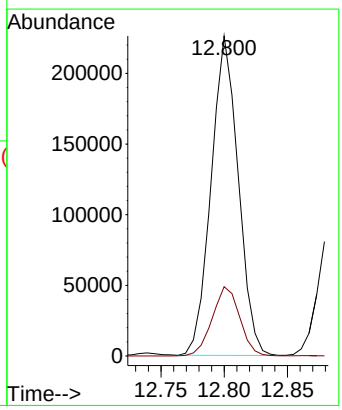


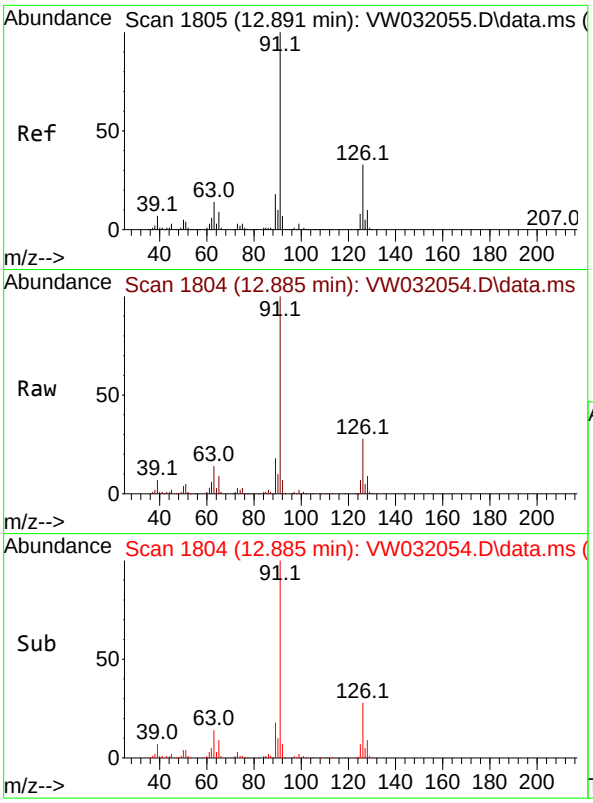


#78
n-propylbenzene
Concen: 20.476 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 337098

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3



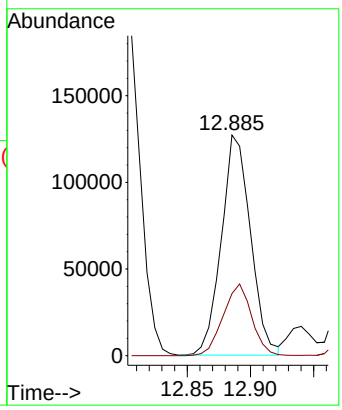


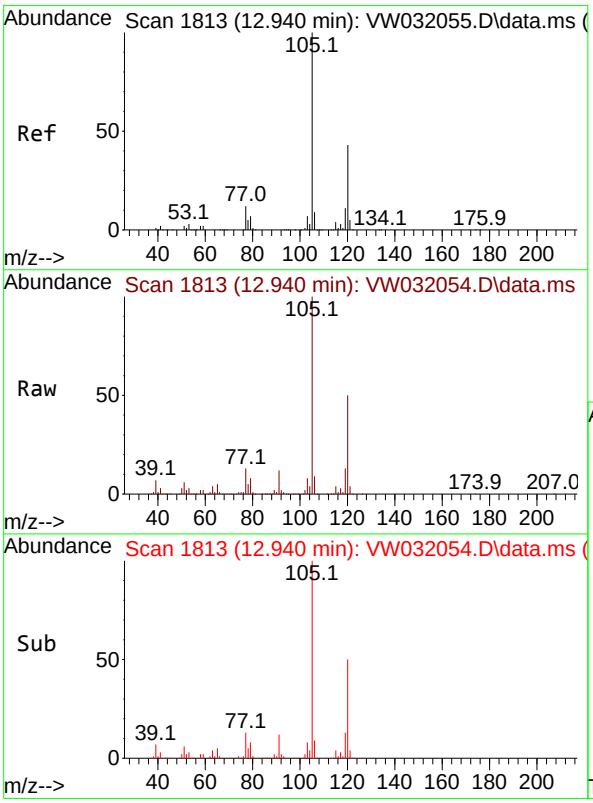
#79
2-Chlorotoluene
Concen: 20.069 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 203918

Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.9	47.7

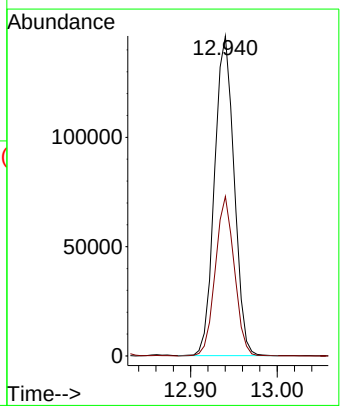


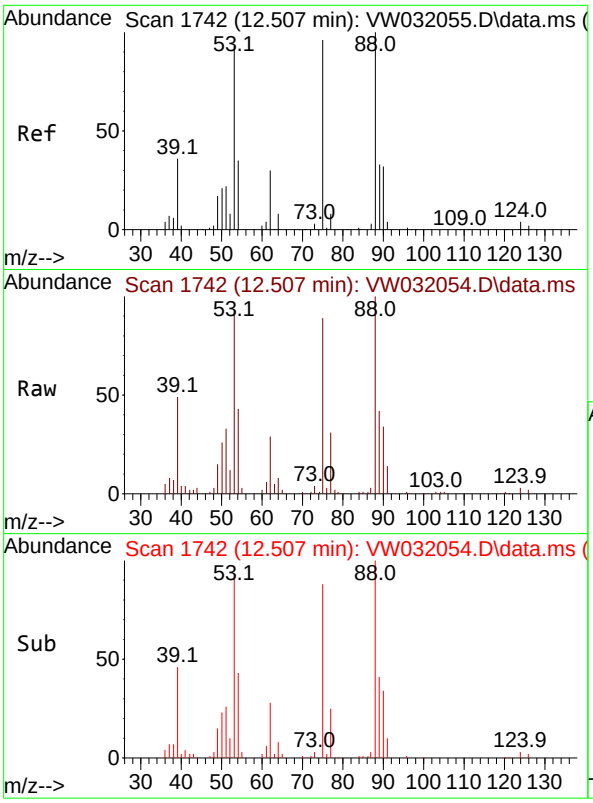


#80
1,3,5-Trimethylbenzene
Concen: 20.226 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 229615

Ion	Ratio	Lower	Upper
105	100		
120	48.5	23.4	70.0



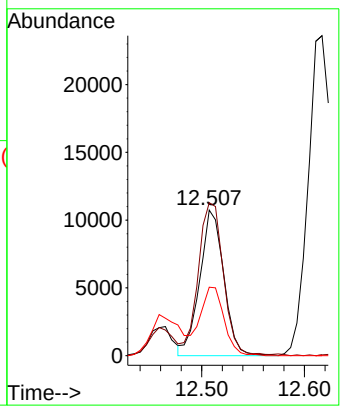


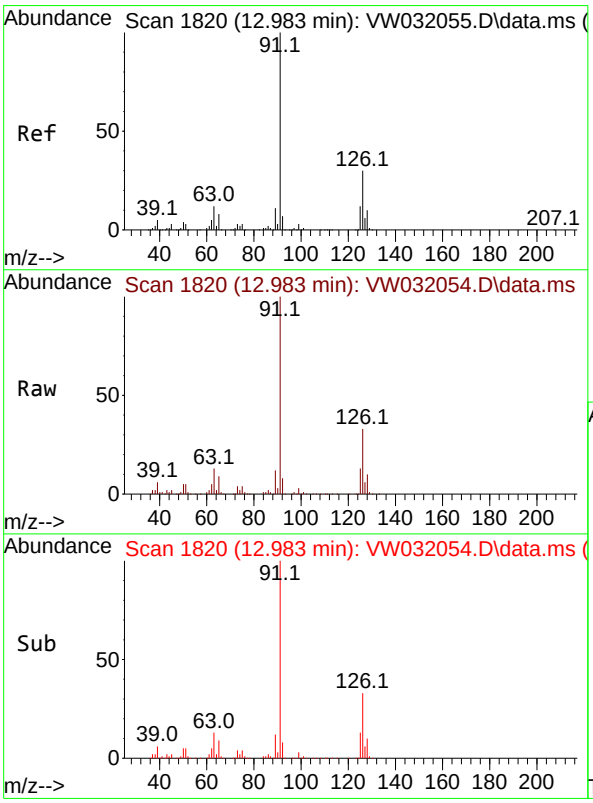
#81
trans-1,4-Dichloro-2-butene
Concen: 17.458 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

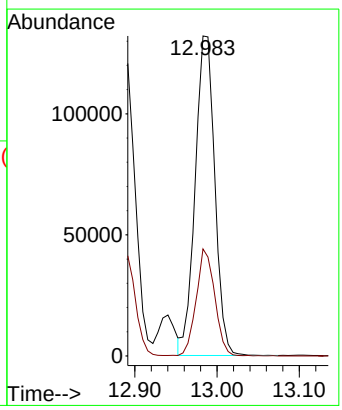


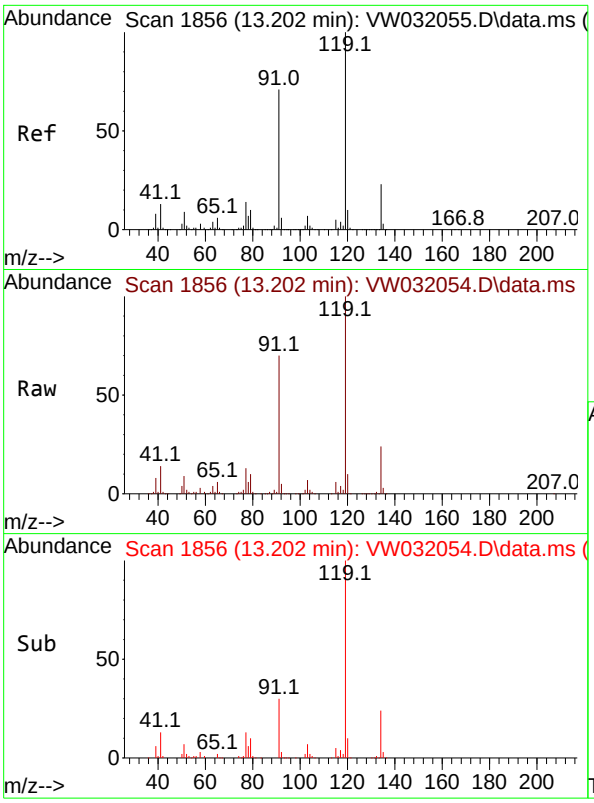


#82
4-Chlorotoluene
Concen: 20.253 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 218637

Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.5	46.5



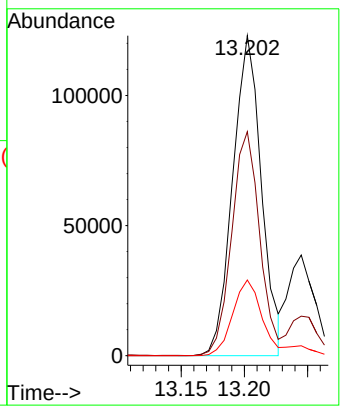


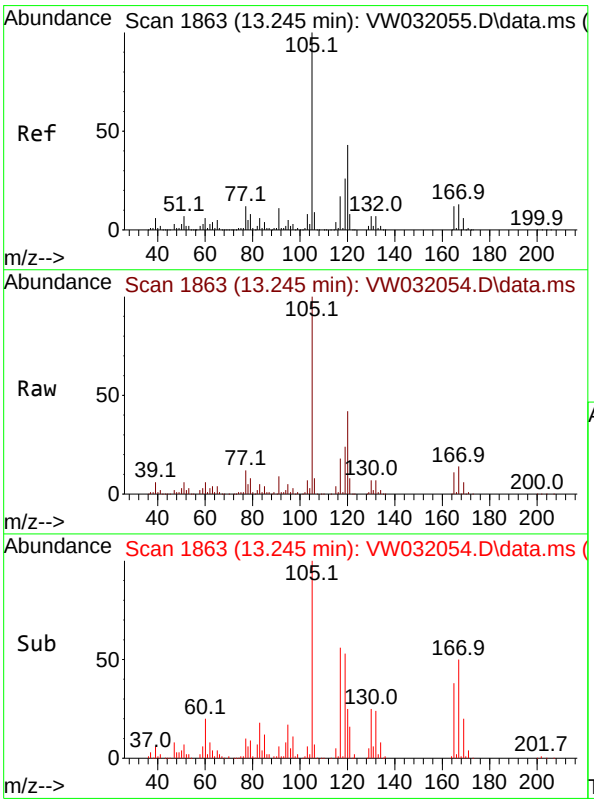
#83
tert-Butylbenzene
Concen: 20.608 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

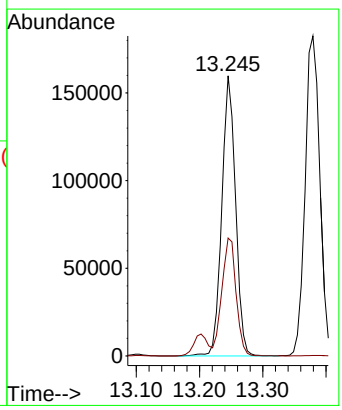


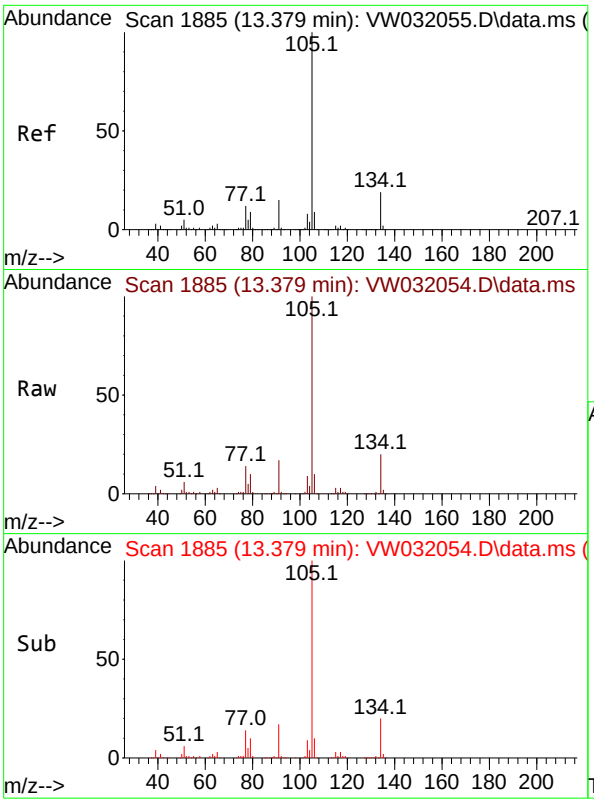


#84
1,2,4-Trimethylbenzene
Concen: 20.774 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 240078

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.6	64.8



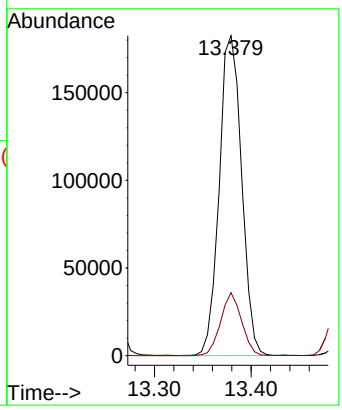


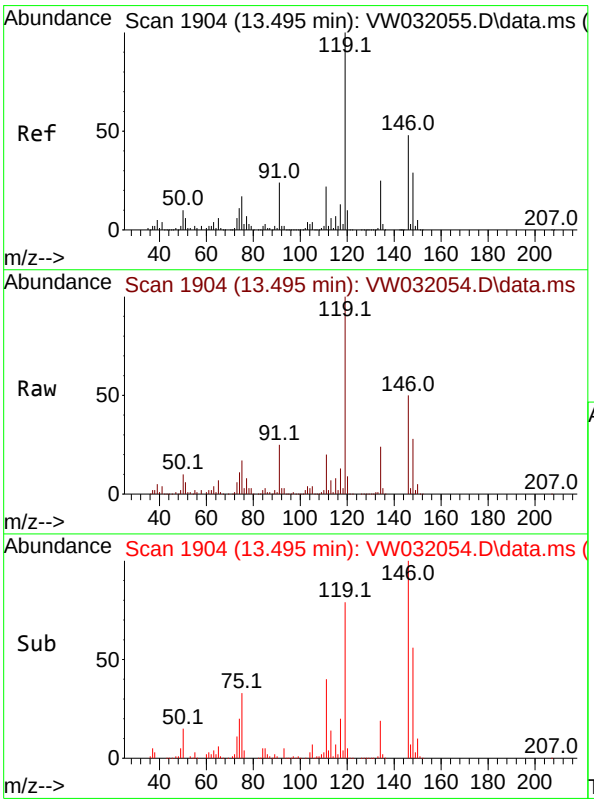
#85
sec-Butylbenzene
Concen: 20.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 292689

Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.9	29.7

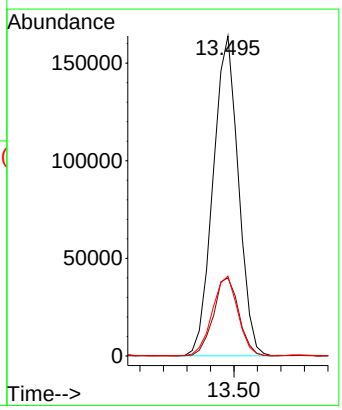


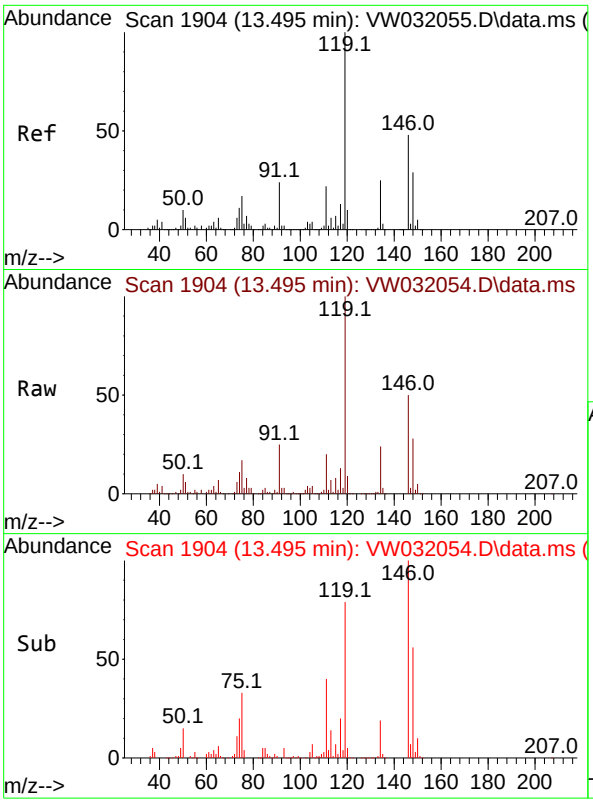


#86
p-Isopropyltoluene
Concen: 20.638 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



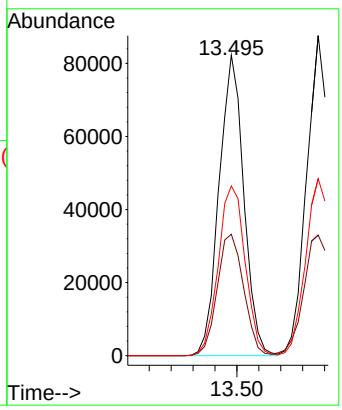


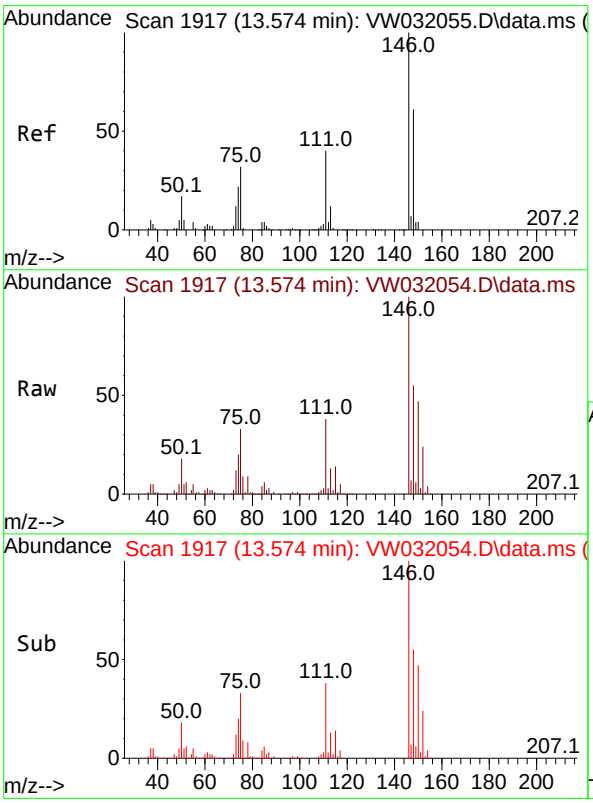
#87
1,3-Dichlorobenzene
Concen: 20.282 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

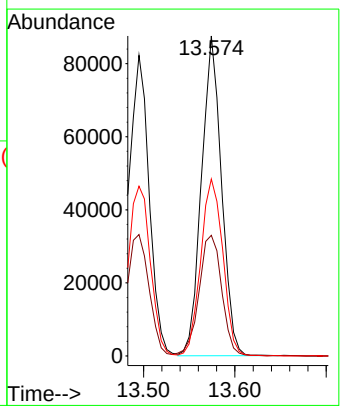


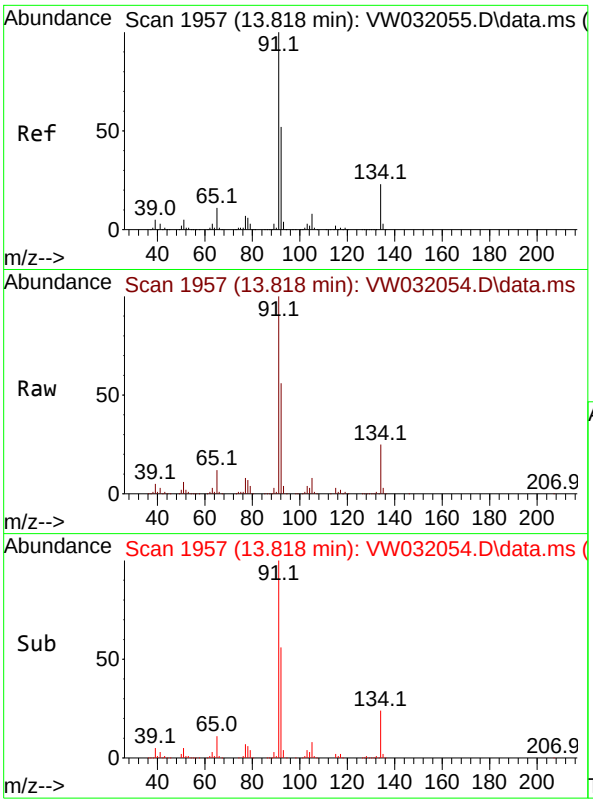


#88
1,4-Dichlorobenzene
Concen: 20.724 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



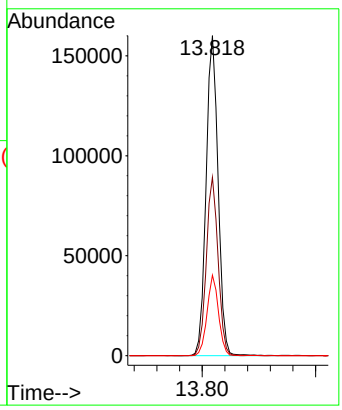


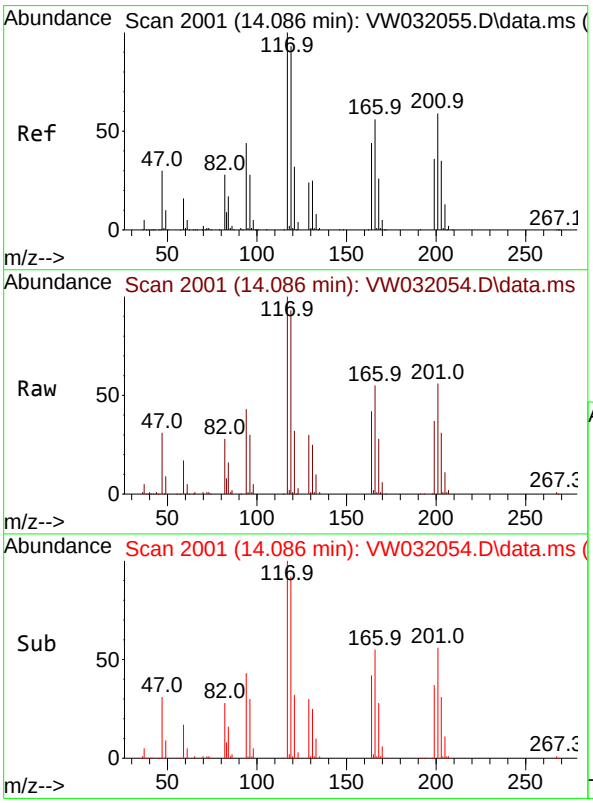
#89
n-Butylbenzene
Concen: 20.328 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

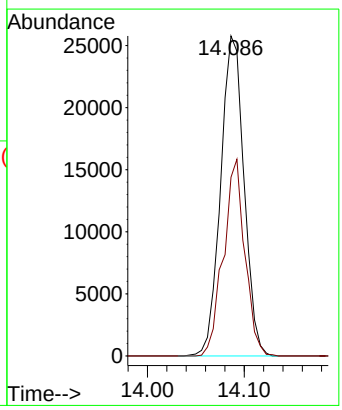


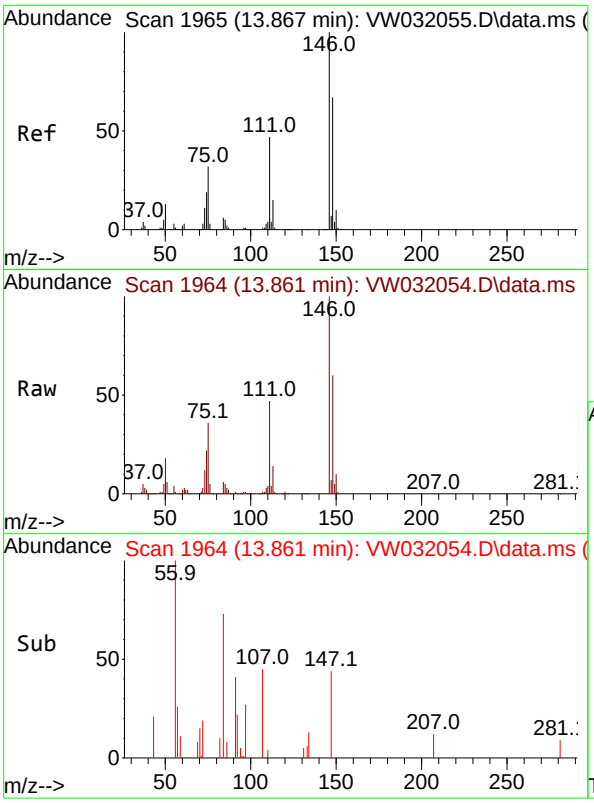


#90
Hexachloroethane
Concen: 19.904 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 43226

Ion	Ratio	Lower	Upper
117	100		
201	56.5	30.9	92.5



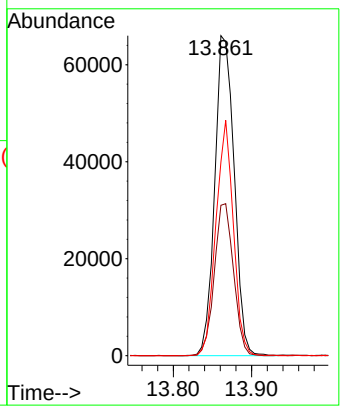


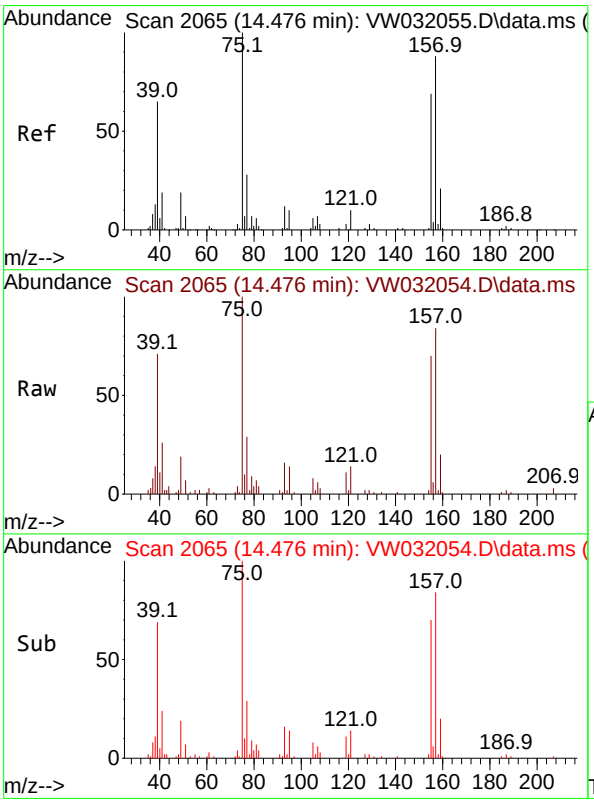
#91
1,2-Dichlorobenzene
Concen: 19.812 ug/l
RT: 13.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

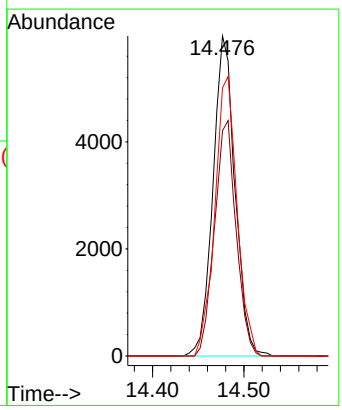


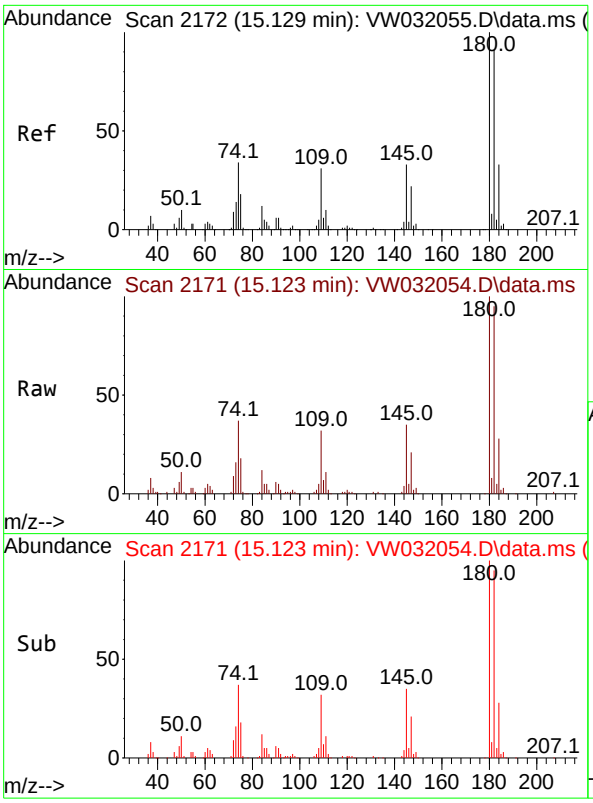


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



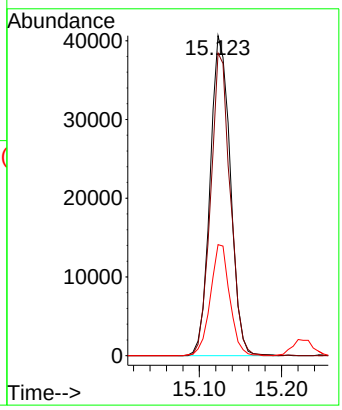


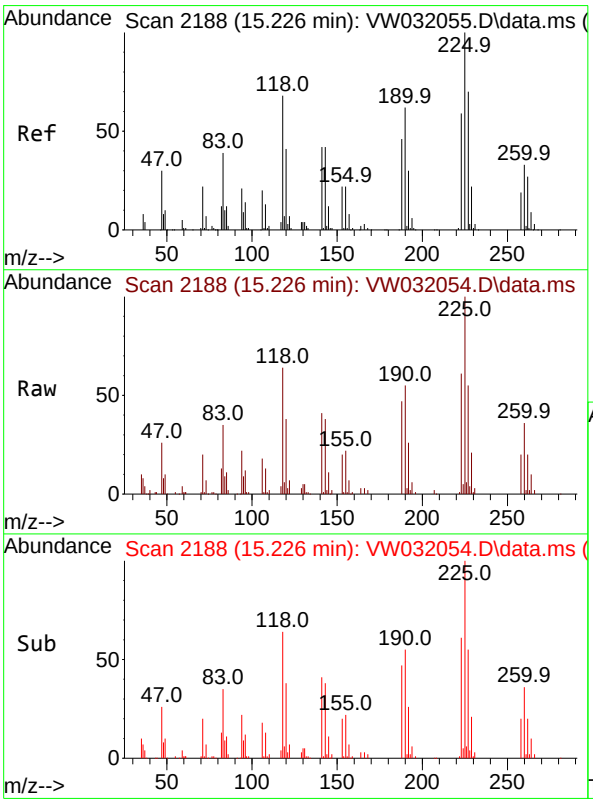
#93
1,2,4-Trichlorobenzene
Concen: 20.102 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

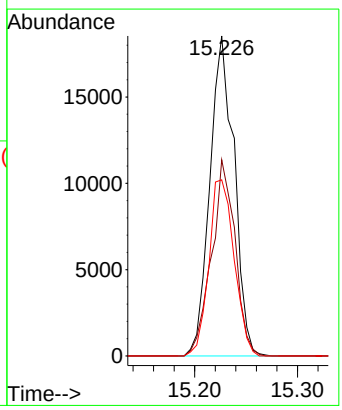


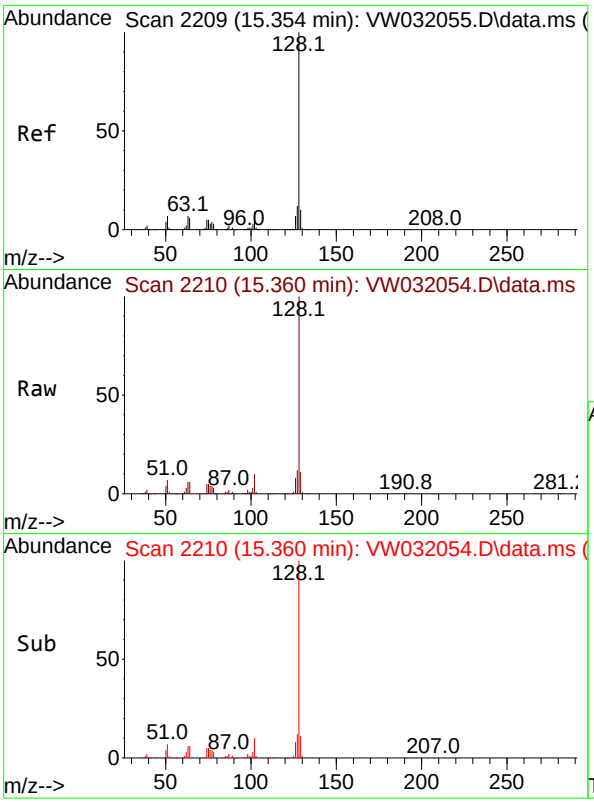


#94
Hexachlorobutadiene
Concen: 19.720 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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



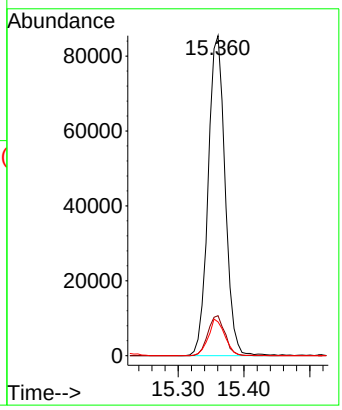


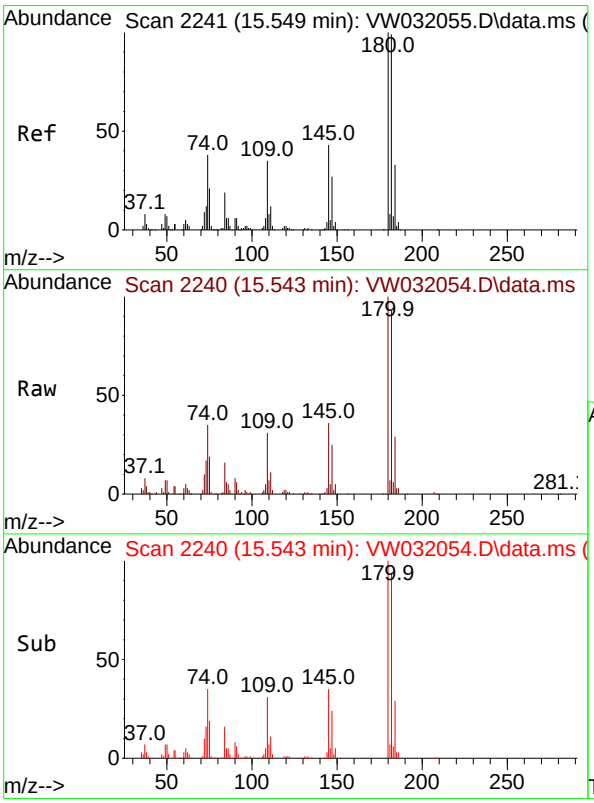
#95
Naphthalene
Concen: 18.147 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

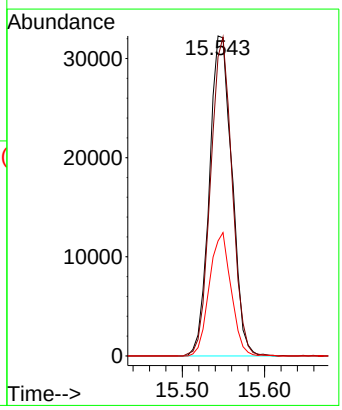




#96
1,2,3-Trichlorobenzene
Concen: 19.635 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

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

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)
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)

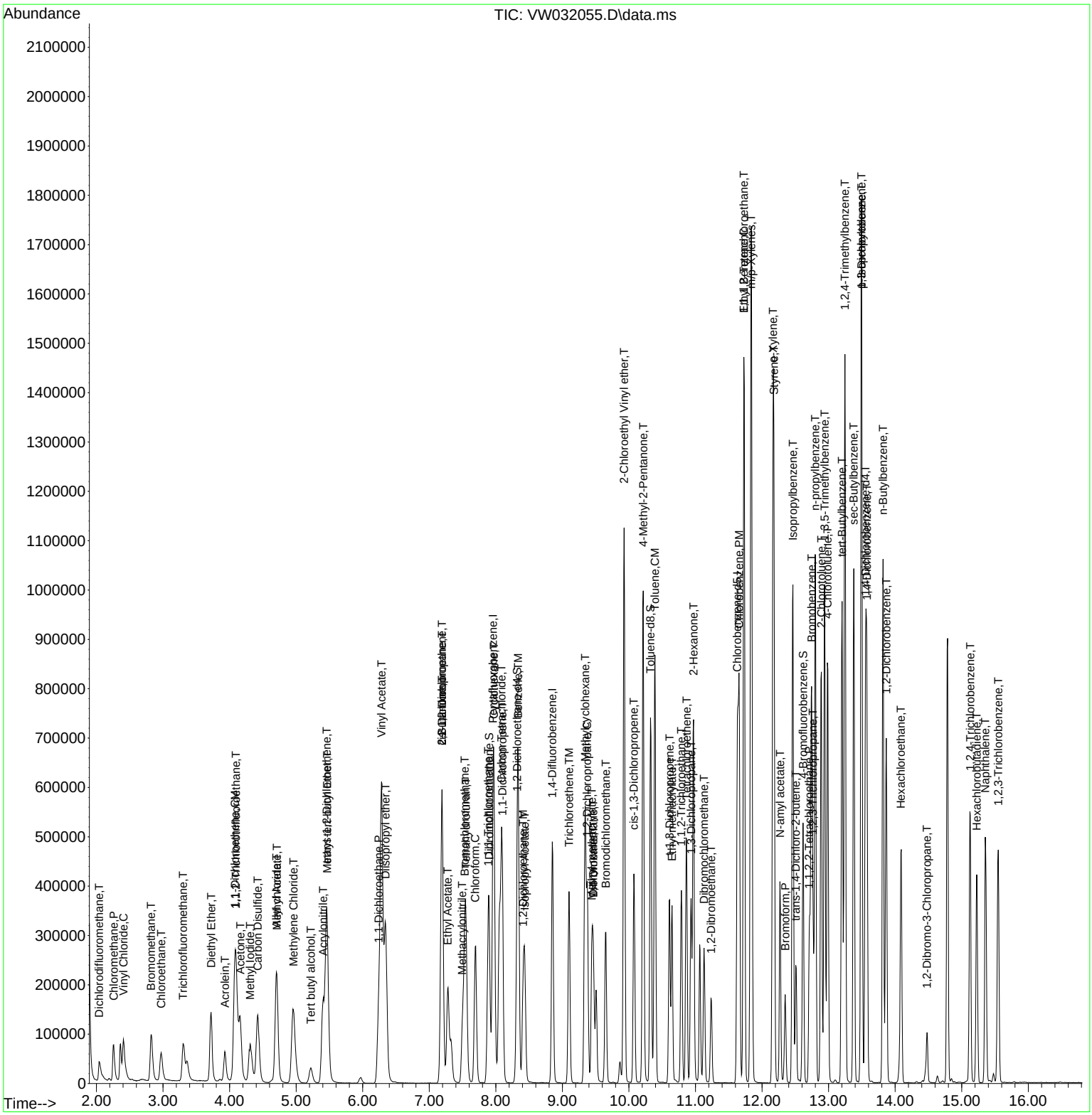
(#) = qualifier out of range (m) = manual integration (+) = signals summed

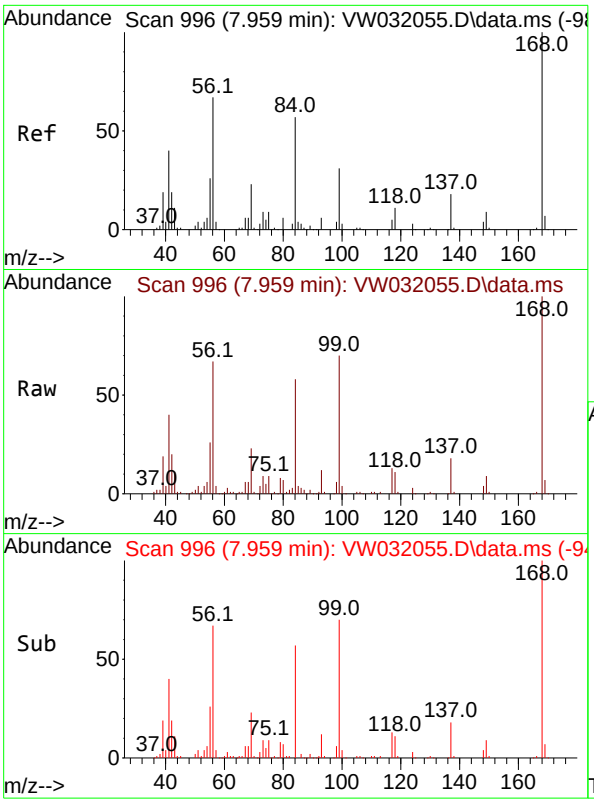
Quantitation Report (Not Reviewed)

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



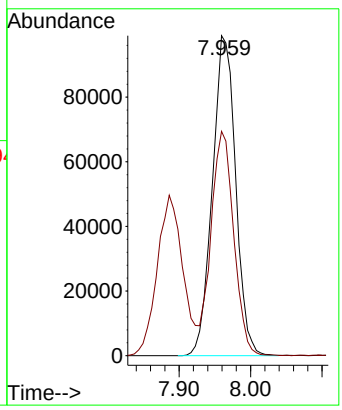


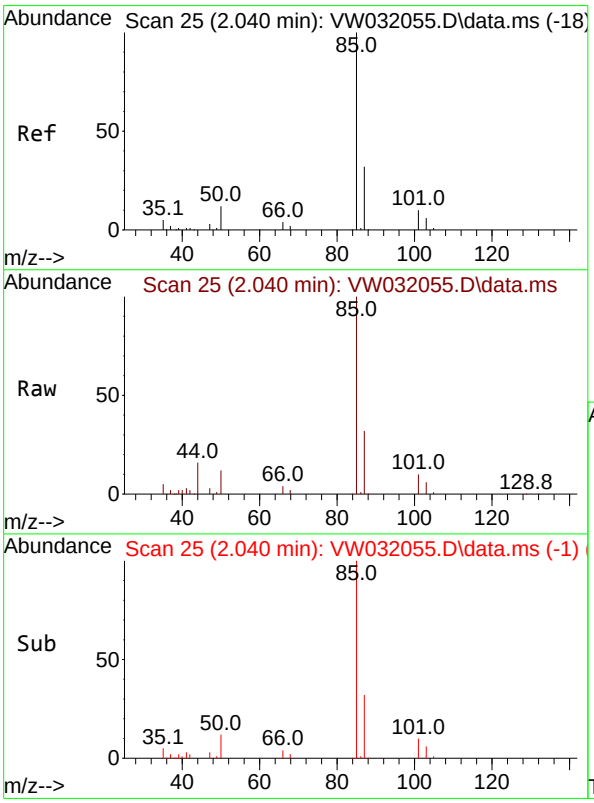
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 223324

Ion	Ratio	Lower	Upper
168	100		
99	70.0	56.0	84.0

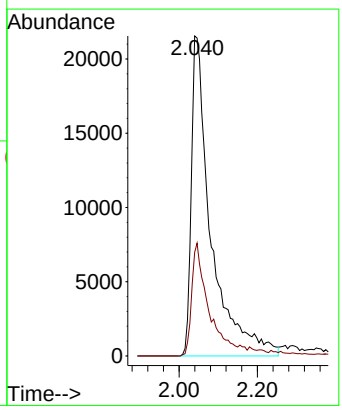


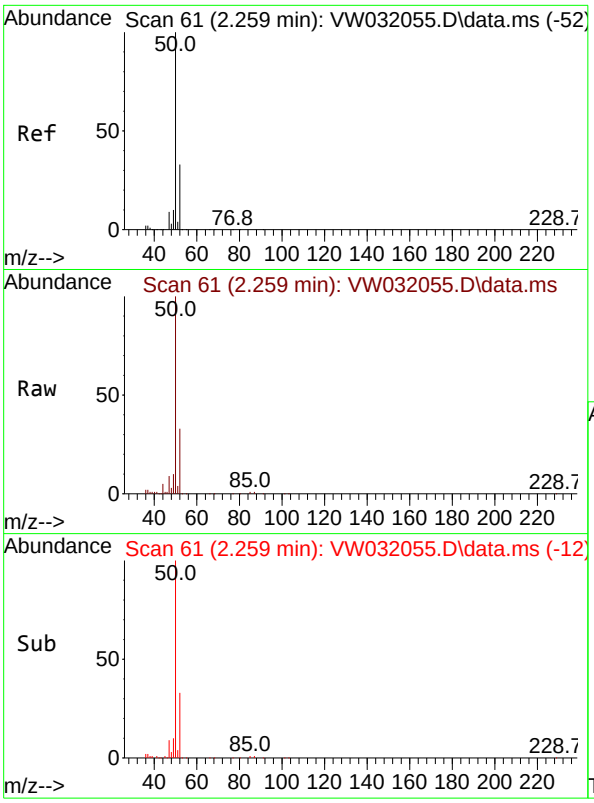


#2
Dichlorodifluoromethane
Concen: 47.015 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 85 Resp: 75096

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.2	48.6



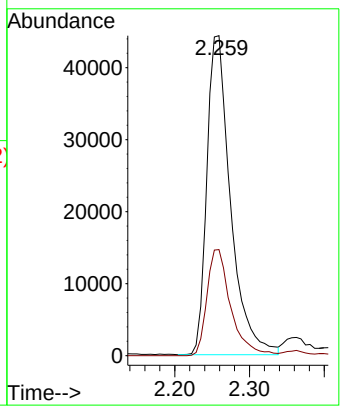


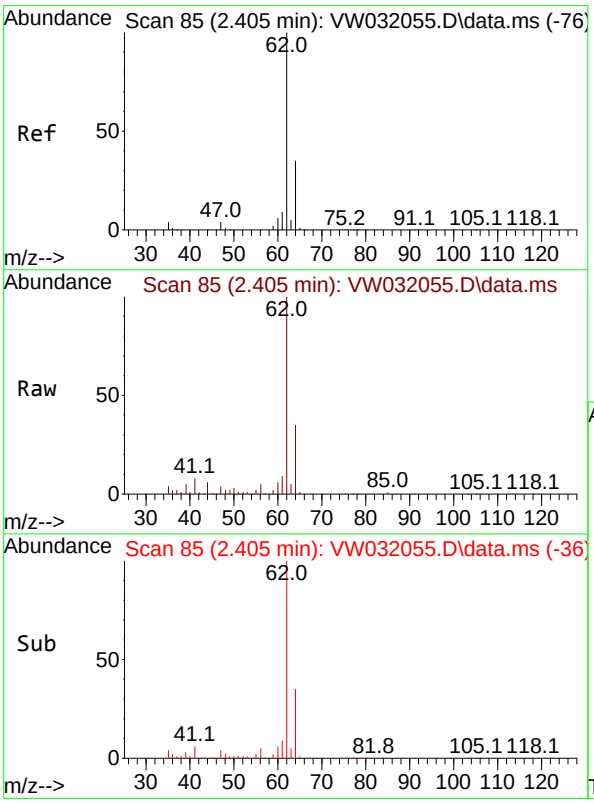
#3
Chloromethane
Concen: 45.418 ug/l
RT: 2.259 min Scan# 61
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 97719

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.6	39.8

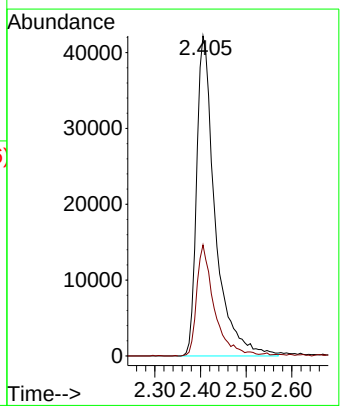


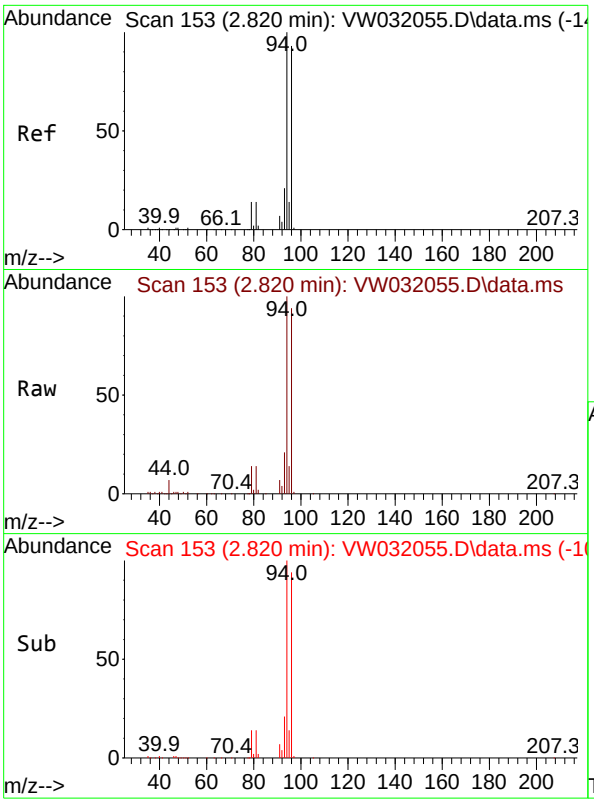


#4
Vinyl Chloride
Concen: 45.486 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 118378

Ion	Ratio	Lower	Upper
62	100		
64	34.7	27.8	41.6



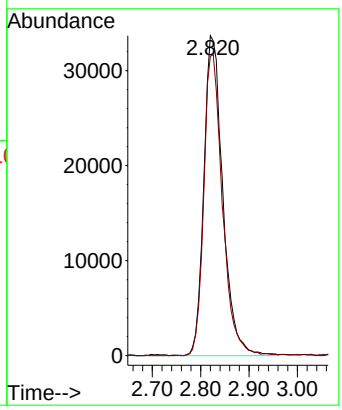


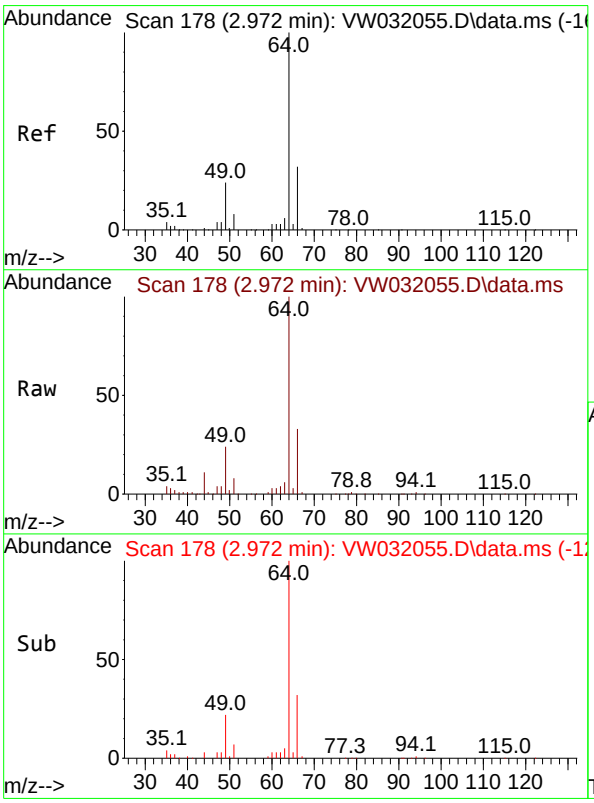
#5
Bromomethane
Concen: 46.991 ug/l
RT: 2.820 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 91749

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.7	112.1

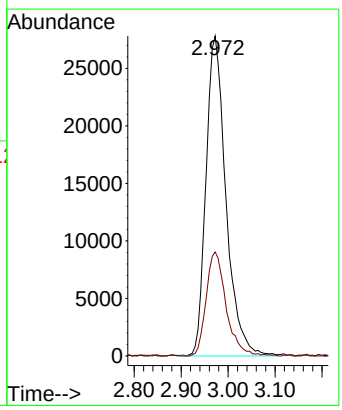


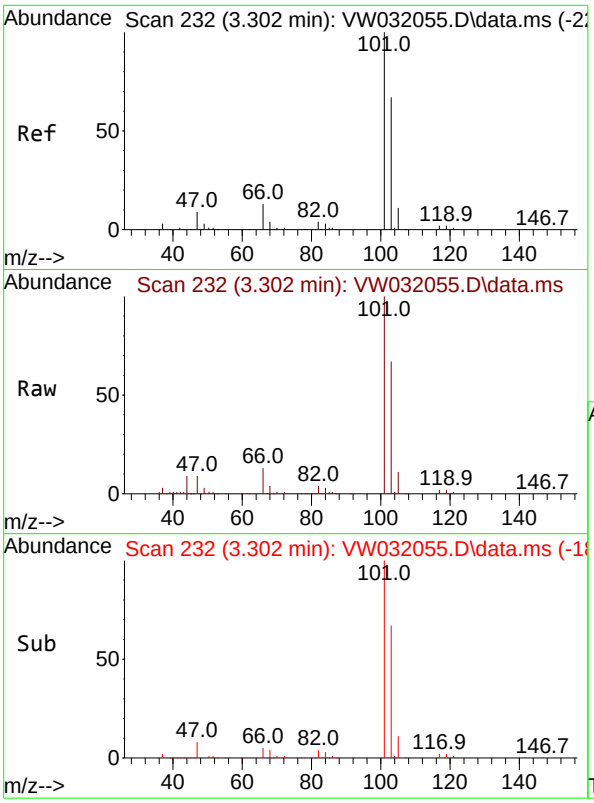


#6
Chloroethane
Concen: 47.641 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 64 Resp: 82045

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.0	39.0



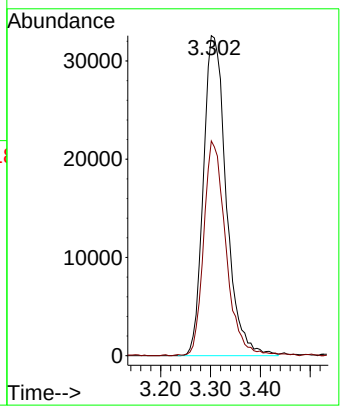


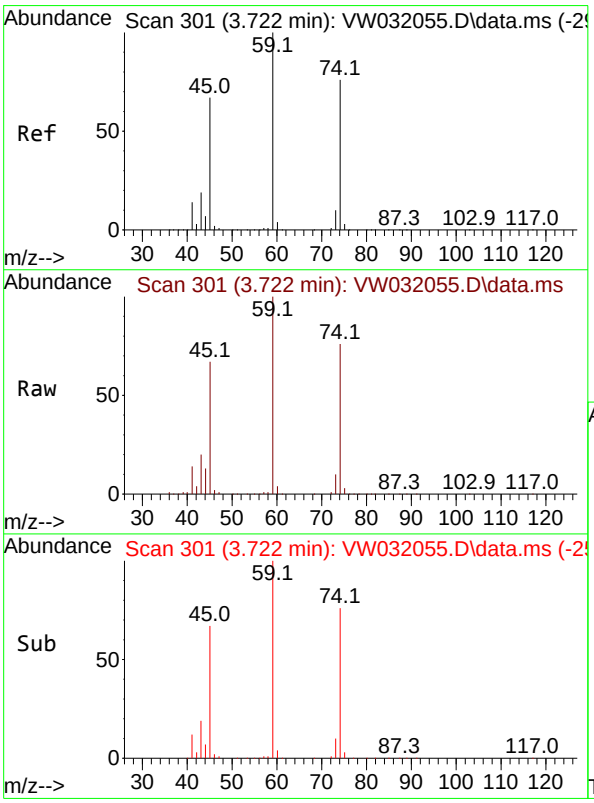
#7
Trichlorofluoromethane
Concen: 49.743 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 103706

Ion	Ratio	Lower	Upper
101	100		
103	66.7	53.4	80.0

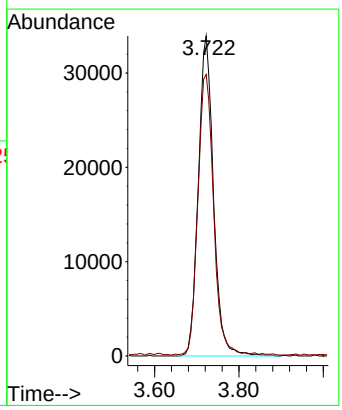


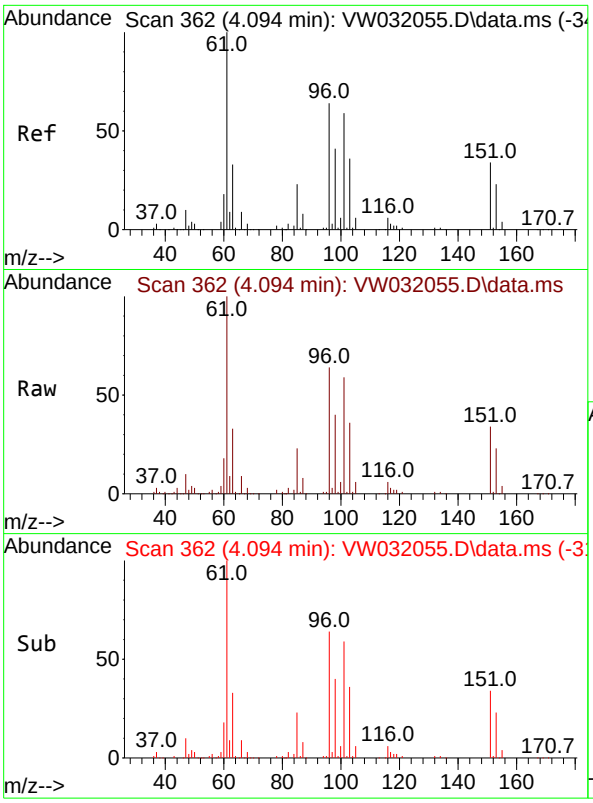


#8
Diethyl Ether
Concen: 49.624 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 74 Resp: 84764

Ion	Ratio	Lower	Upper
74	100		
45	90.8	45.4	136.2



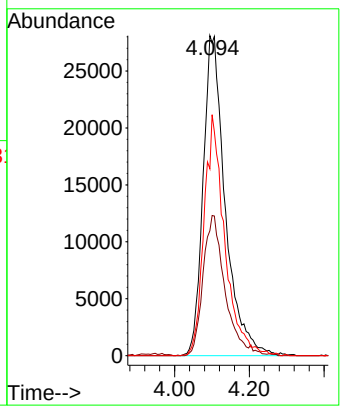


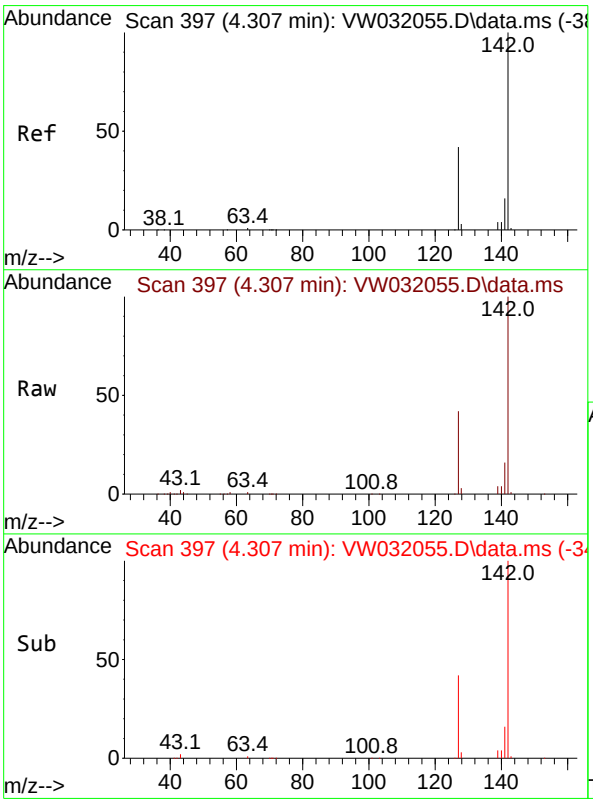
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.968 ug/l
RT: 4.094 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

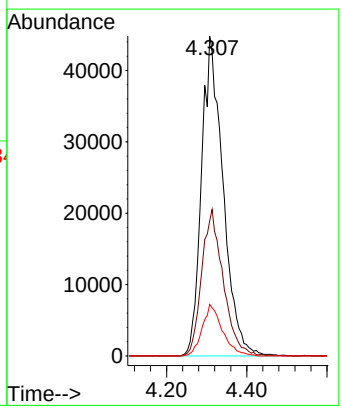


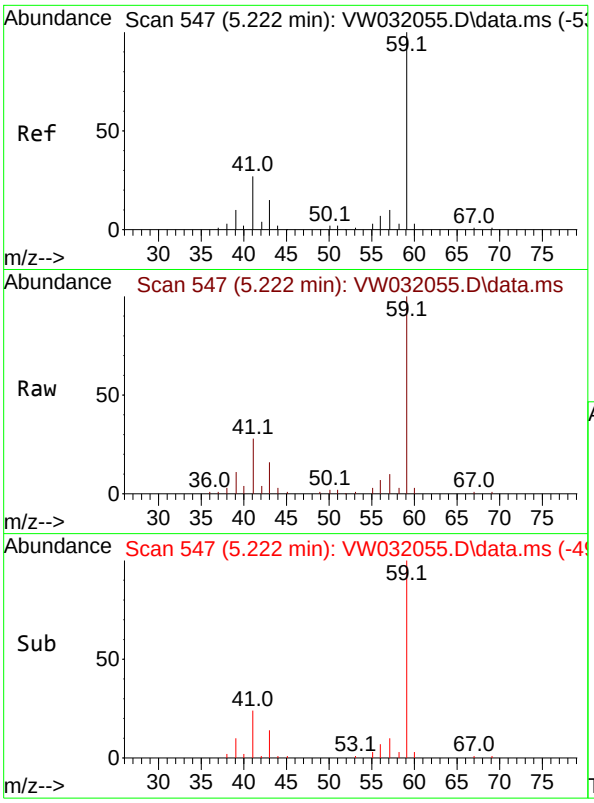


#10
Methyl Iodide
Concen: 47.909 ug/l
RT: 4.307 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



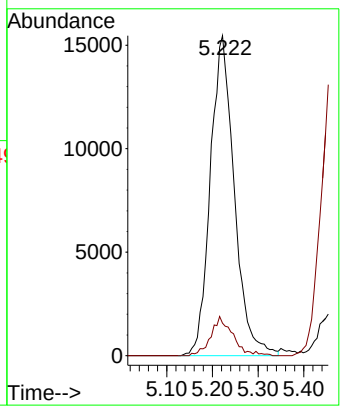


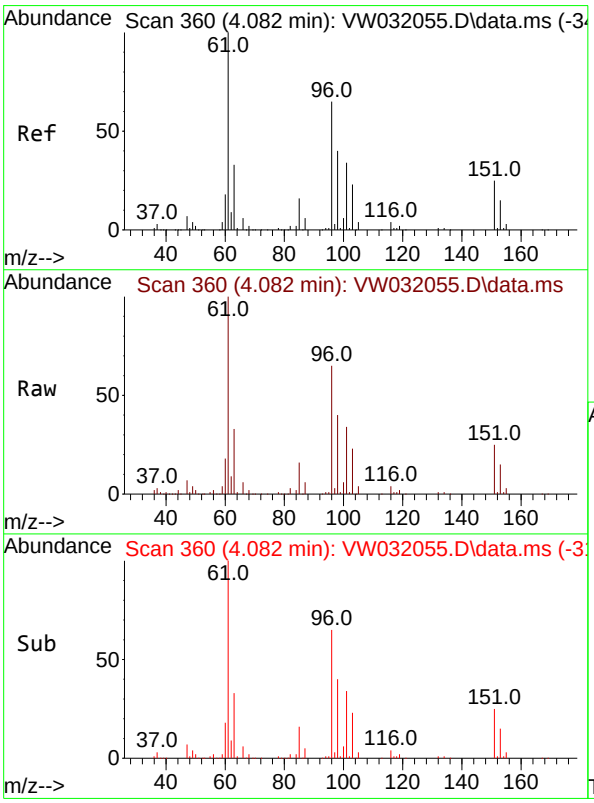
#11
Tert butyl alcohol
Concen: 269.294 ug/l
RT: 5.222 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 56322

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

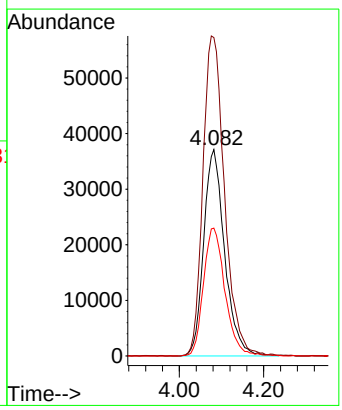


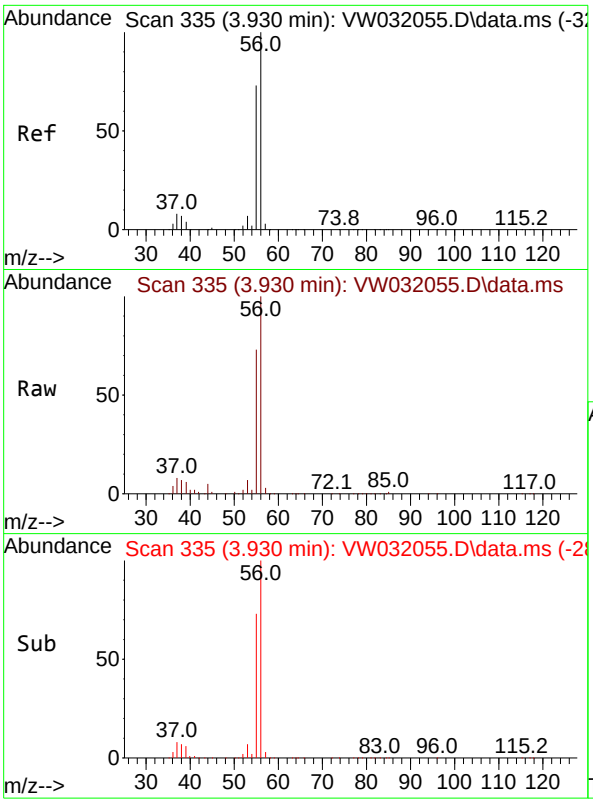


#12
1,1-Dichloroethene
Concen: 47.373 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



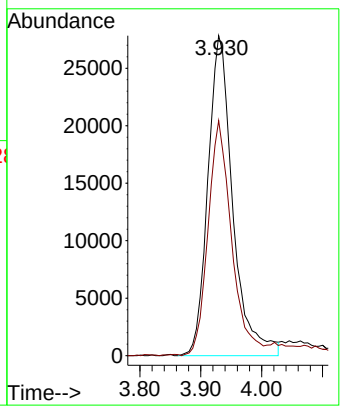


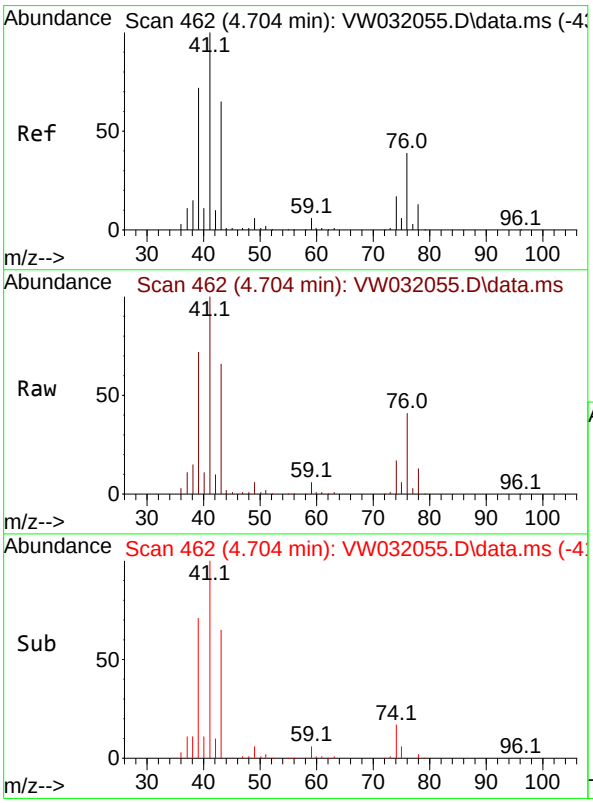
#13
Acrolein
Concen: 236.637 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 78858

Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.4	83.2

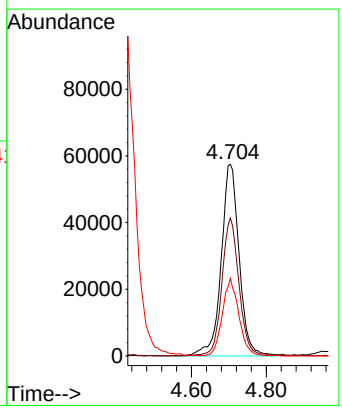


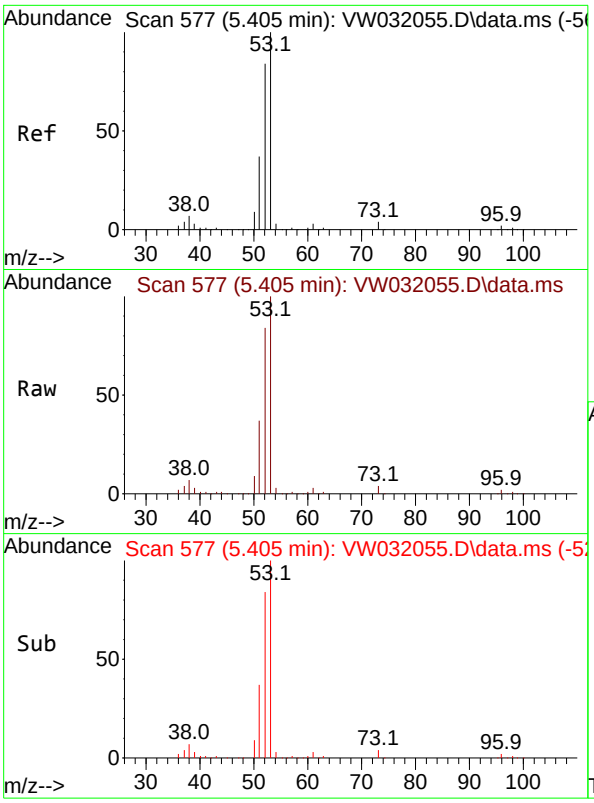


#14
Allyl chloride
Concen: 48.819 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



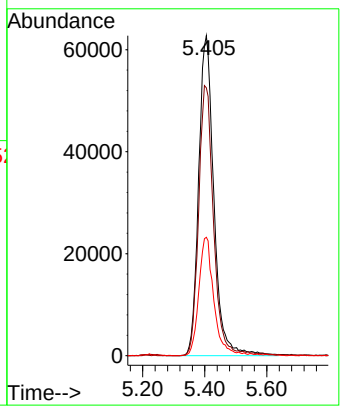


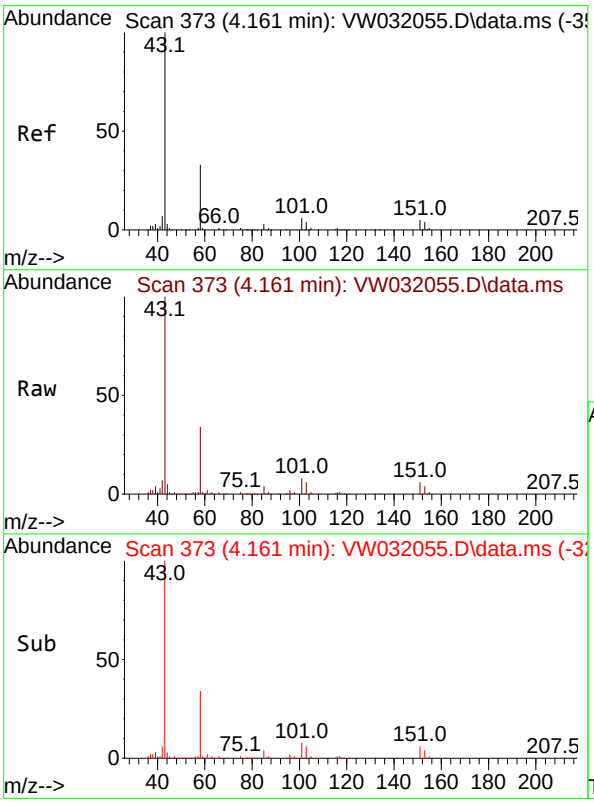
#15
Acrylonitrile
Concen: 262.963 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

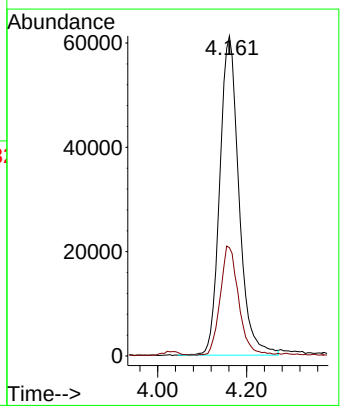


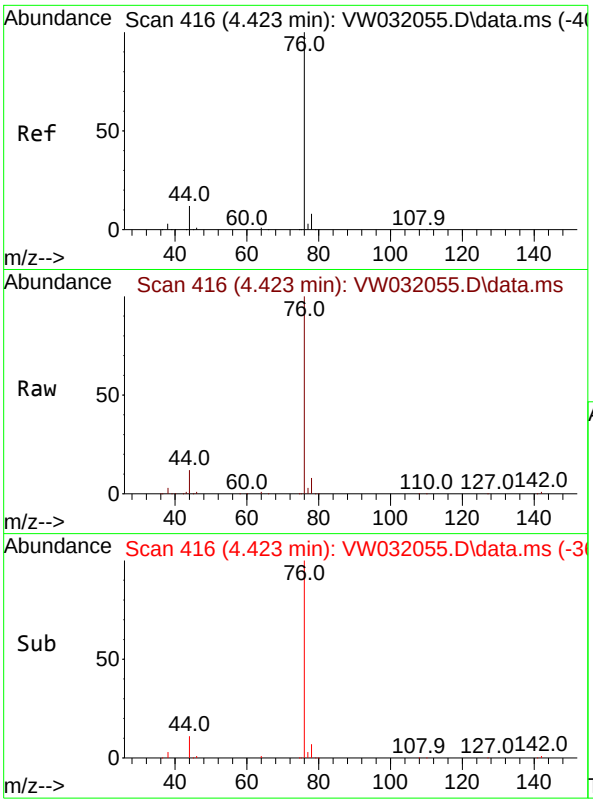


#16
Acetone
Concen: 244.127 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 182559

Ion	Ratio	Lower	Upper
43	100		
58	33.2	26.6	39.8



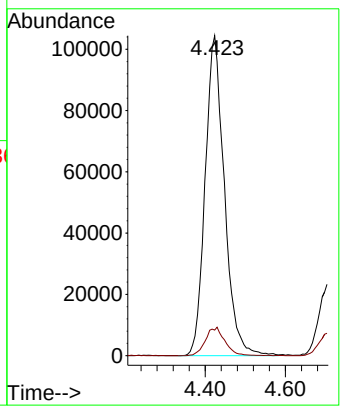


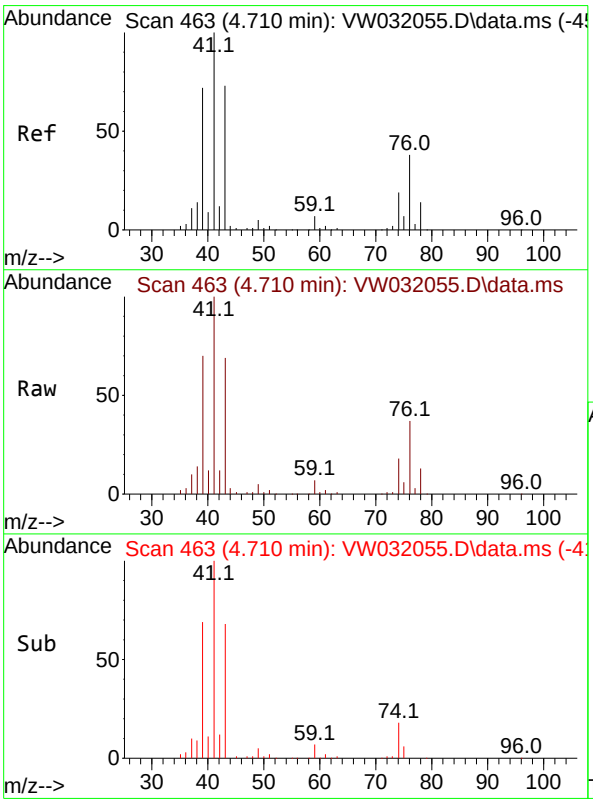
#17
Carbon Disulfide
Concen: 47.836 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 347752

Ion	Ratio	Lower	Upper
76	100		
78	8.0	6.4	9.6

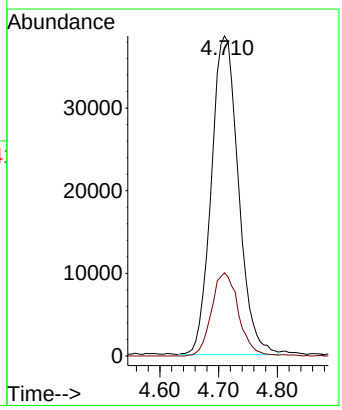


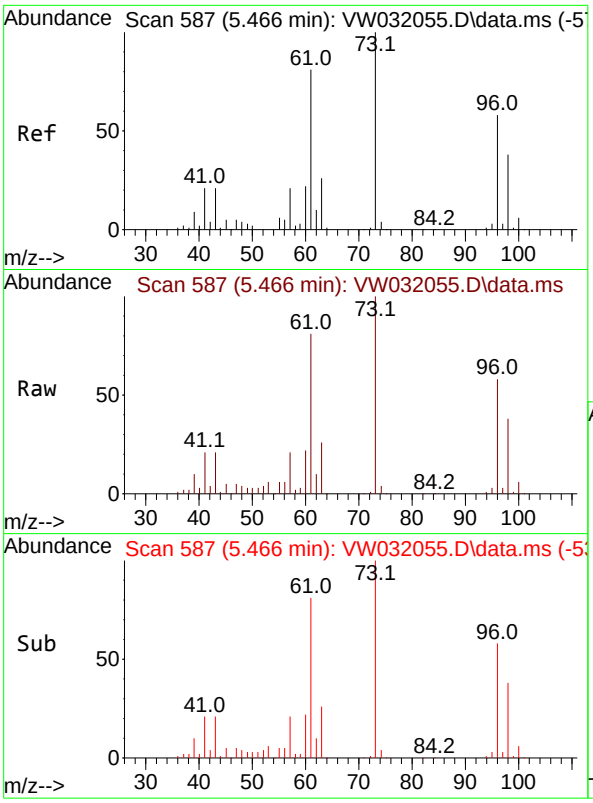


#18
Methyl Acetate
Concen: 52.361 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 123902

Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.6	31.0



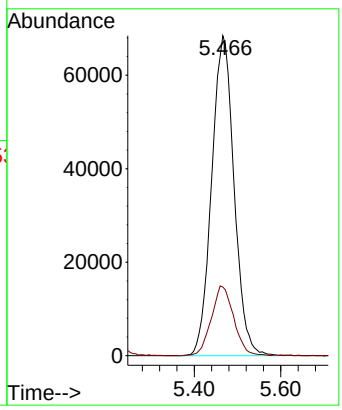


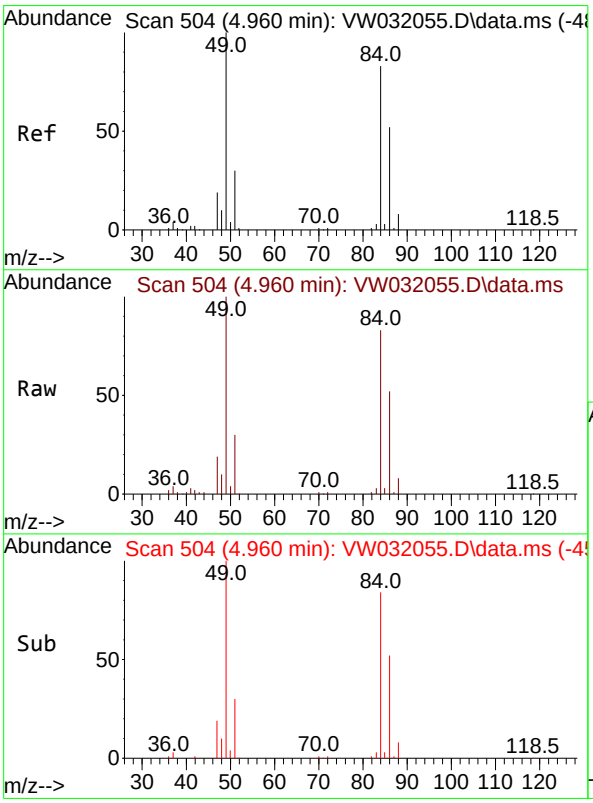
#19
Methyl tert-butyl Ether
Concen: 51.560 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 246045

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8

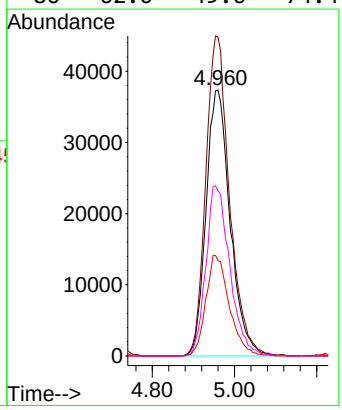


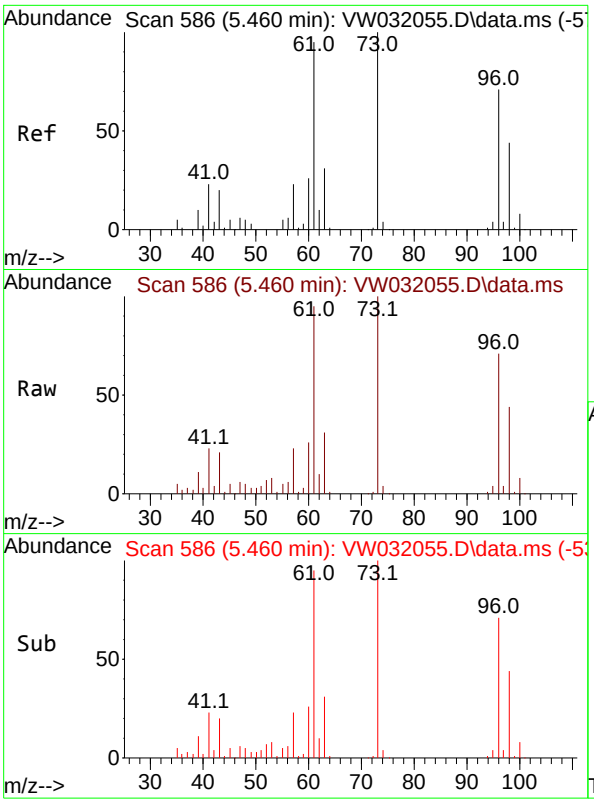


#20
Methylene Chloride
Concen: 44.016 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



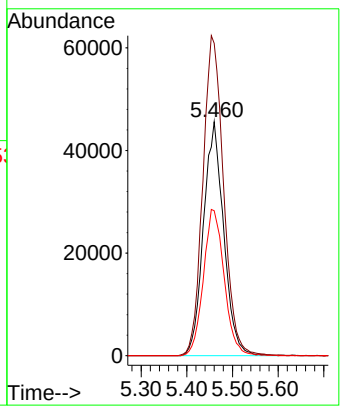


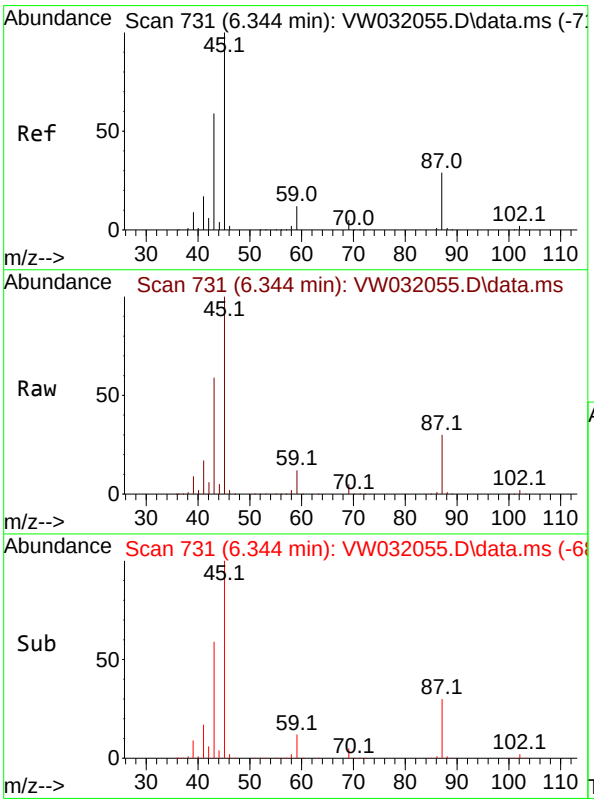
#21
trans-1,2-Dichloroethene
Concen: 48.707 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

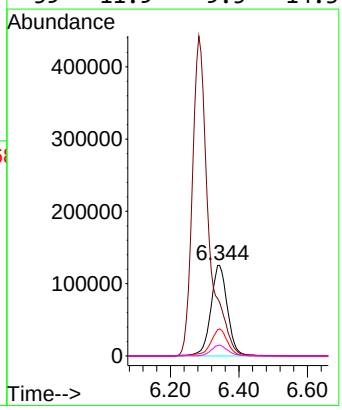


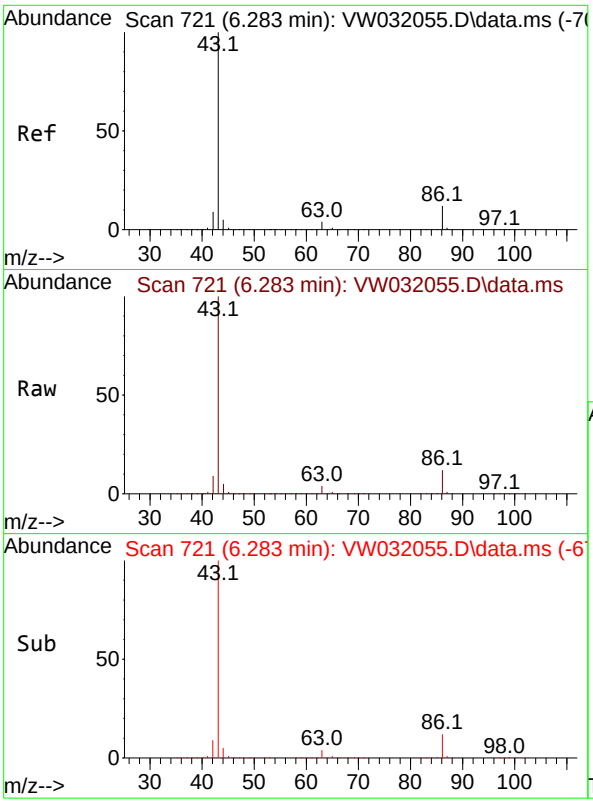


#22
Diisopropyl ether
Concen: 50.751 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



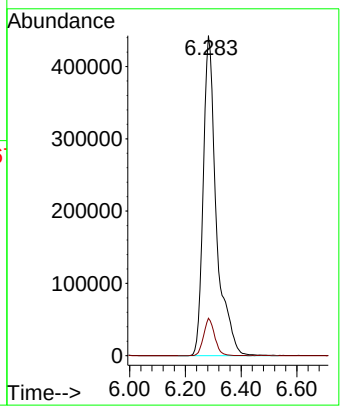


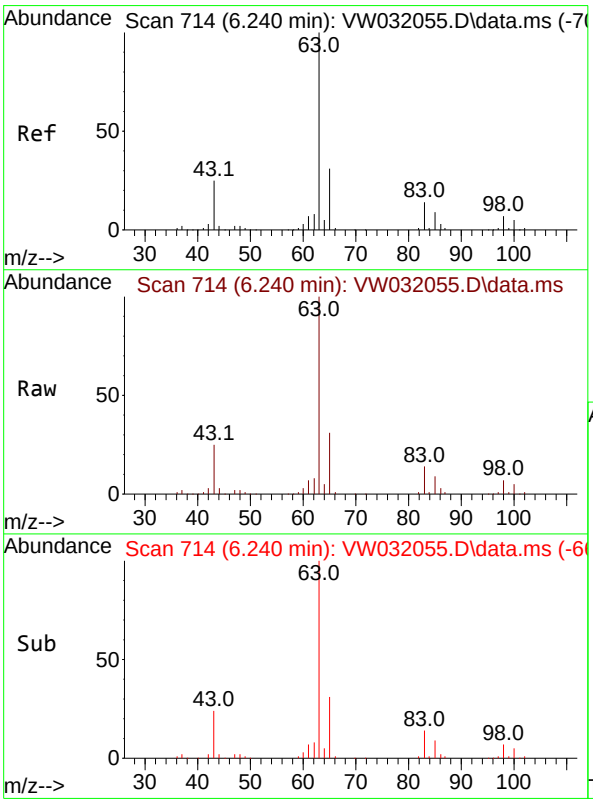
#23
Vinyl Acetate
Concen: 265.873 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1450553

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

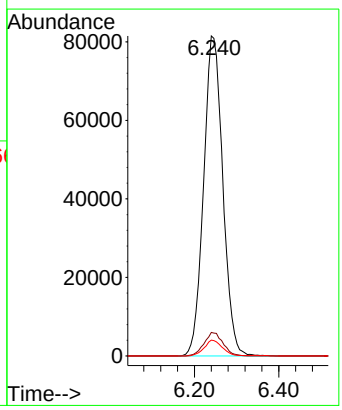


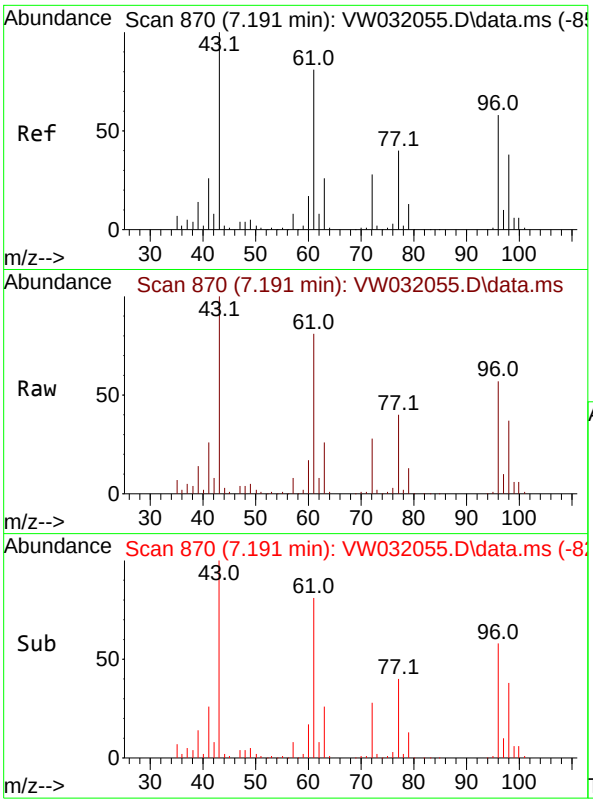


#24
1,1-Dichloroethane
Concen: 48.646 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



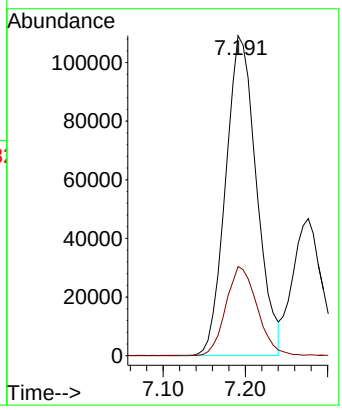


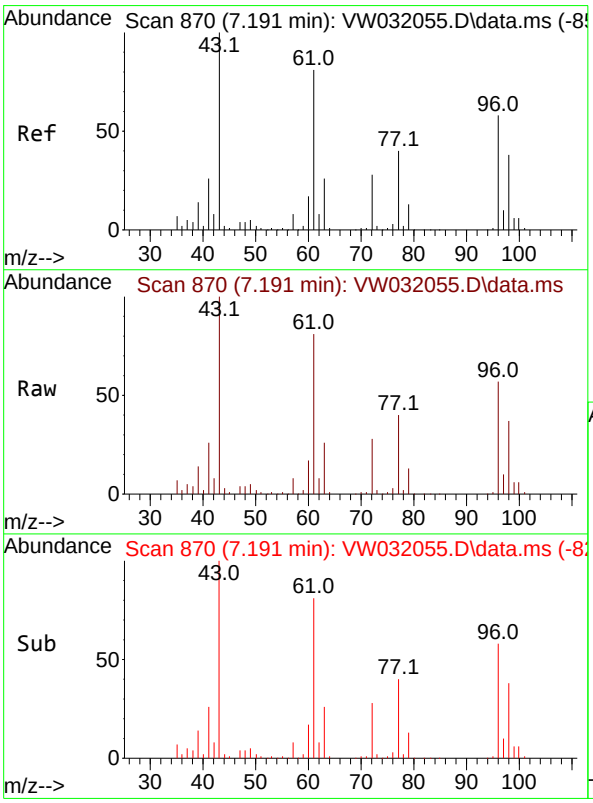
#25
2-Butanone
Concen: 267.883 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 284711

Ion	Ratio	Lower	Upper
43	100		
72	27.9	22.3	33.5

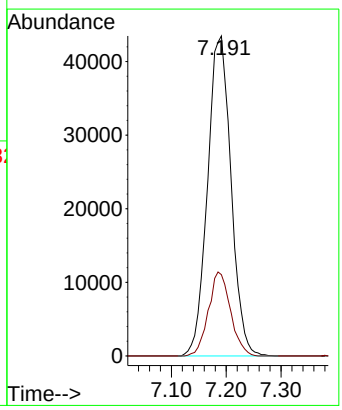


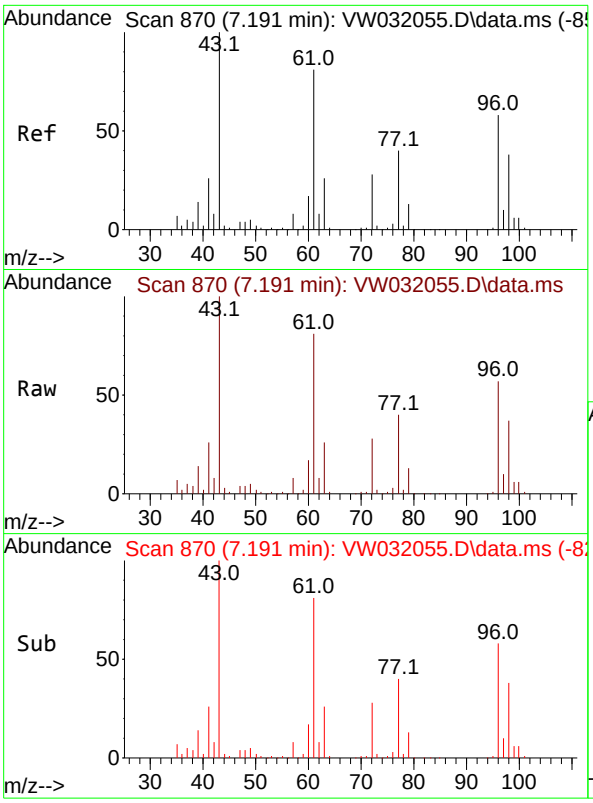


#26
2,2-Dichloropropane
Concen: 48.578 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 77 Resp: 129390

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.3	36.9



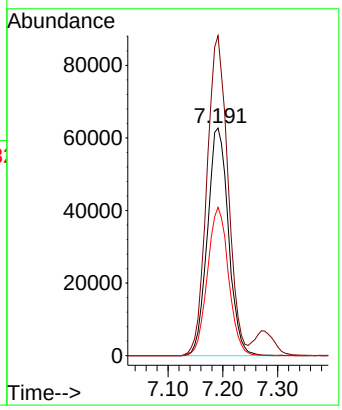


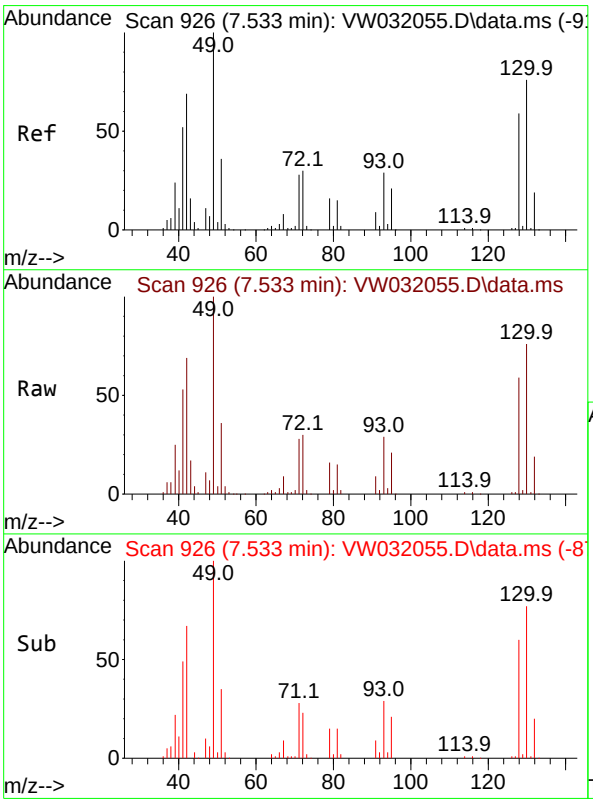
#27
cis-1,2-Dichloroethene
Concen: 49.779 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

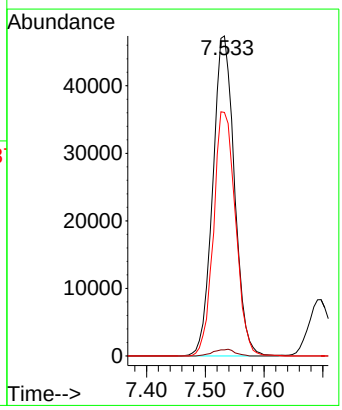


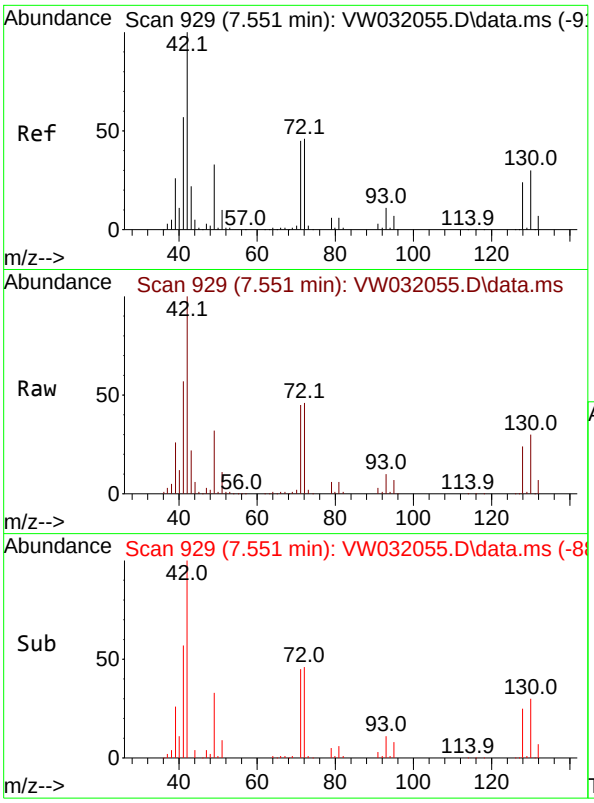


#28
Bromochloromethane
Concen: 50.191 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



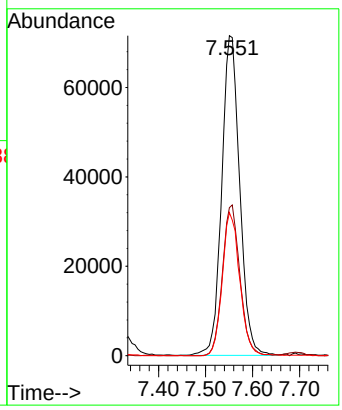


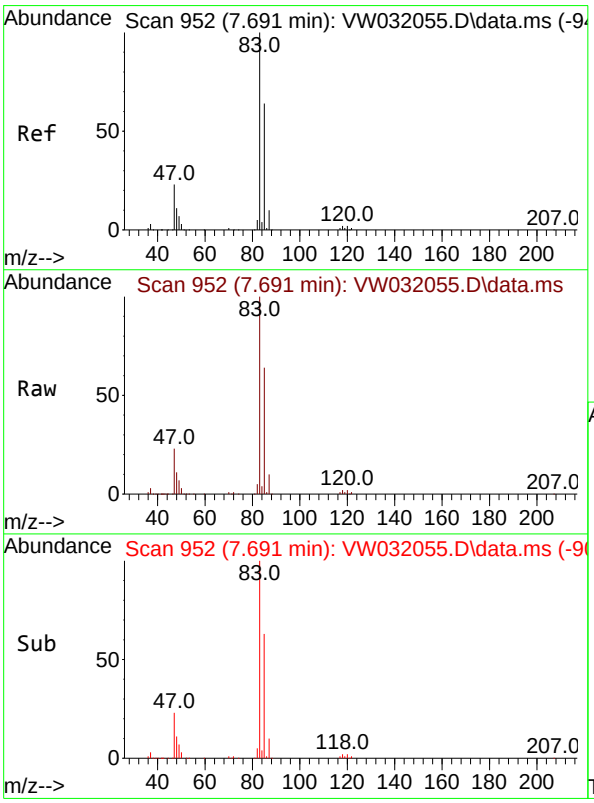
#29
Tetrahydrofuran
Concen: 272.100 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

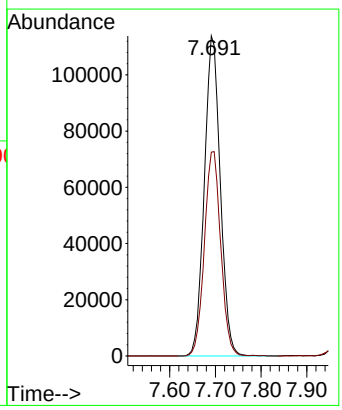


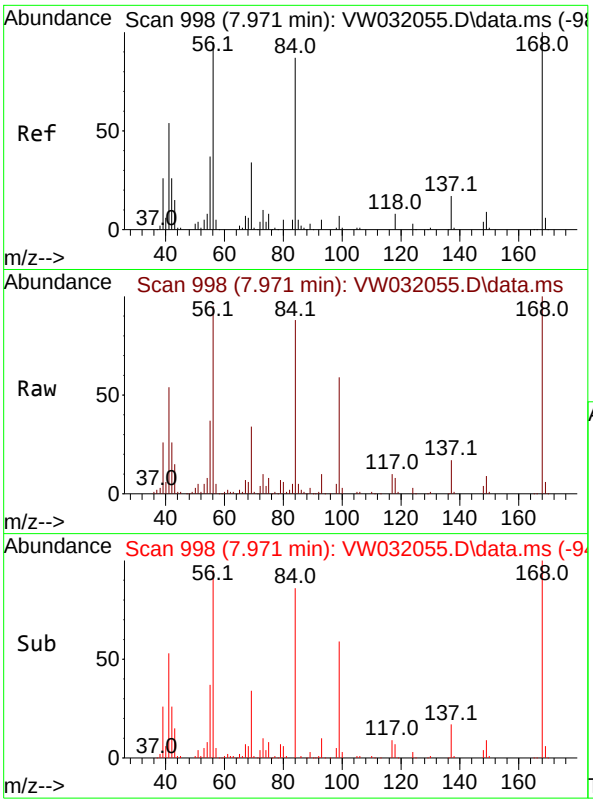


#30
Chloroform
Concen: 49.018 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 275905

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.4



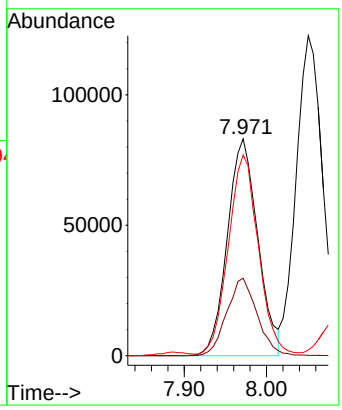


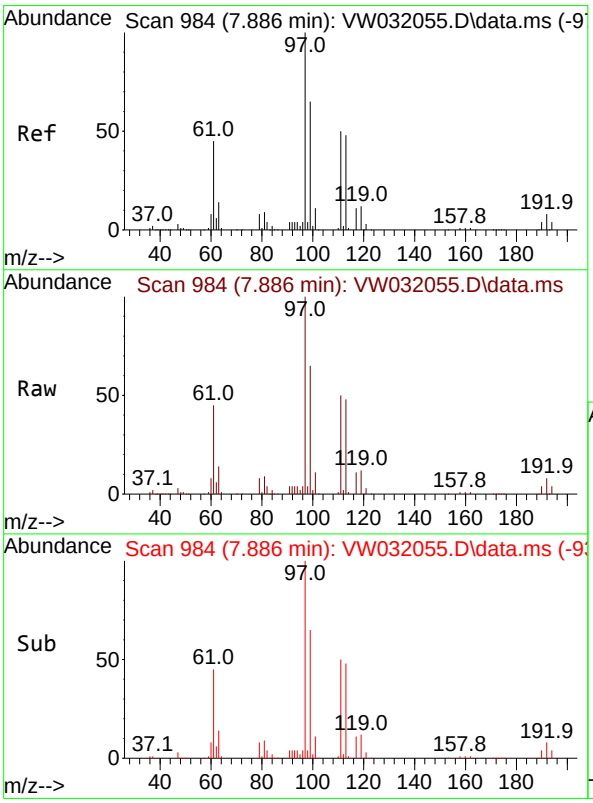
#31
Cyclohexane
Concen: 46.622 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

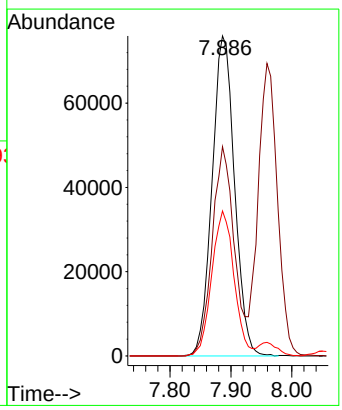


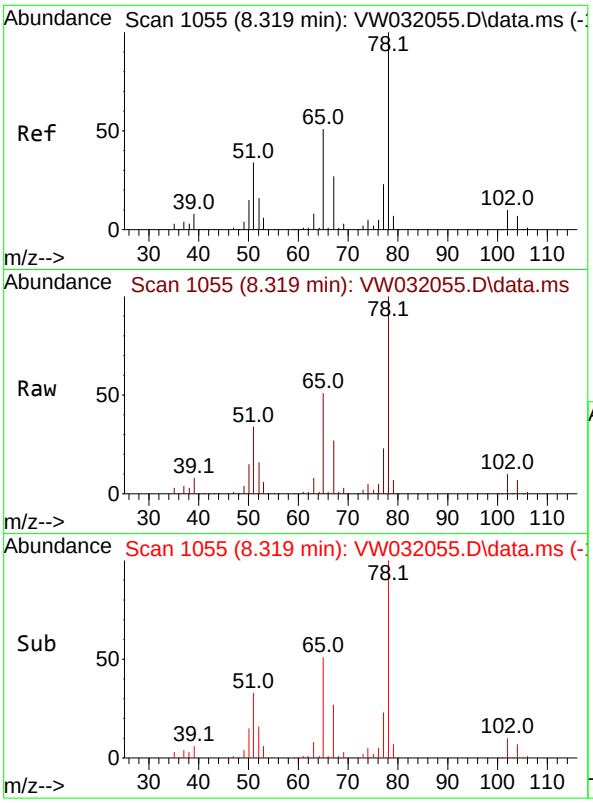


#32
1,1,1-Trichloroethane
Concen: 47.617 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



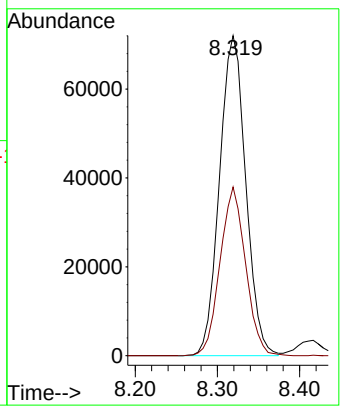


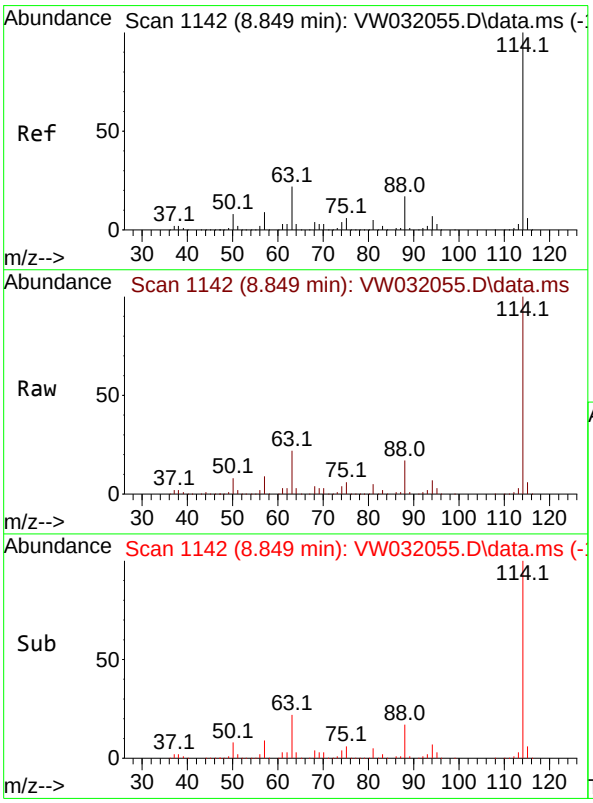
#33
1,2-Dichloroethane-d4
Concen: 49.529 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 159972

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	102.4

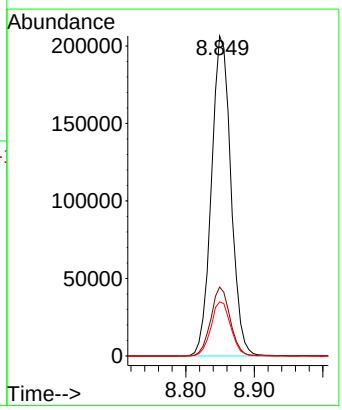


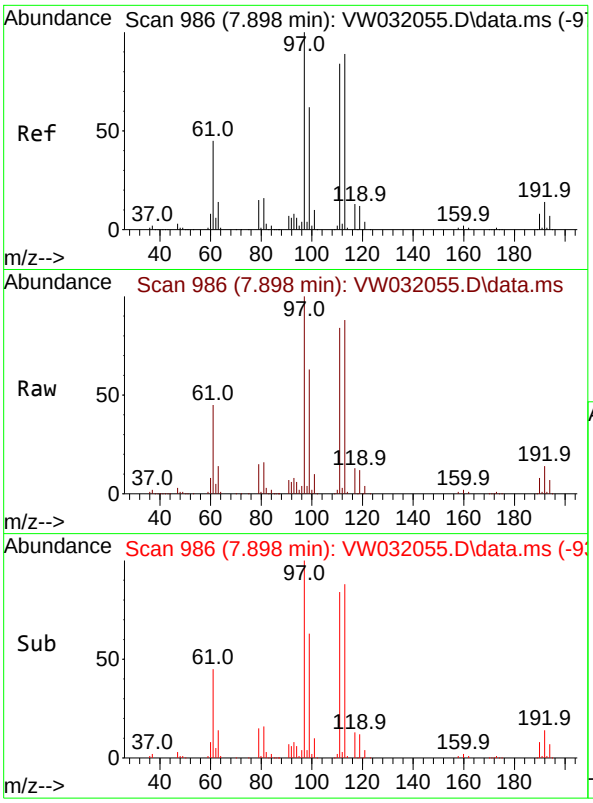


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



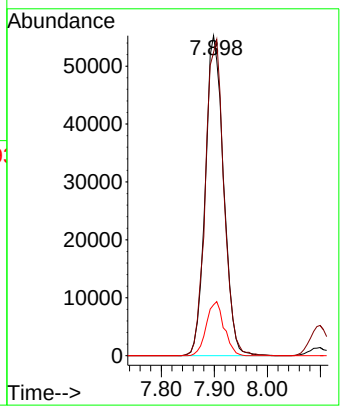


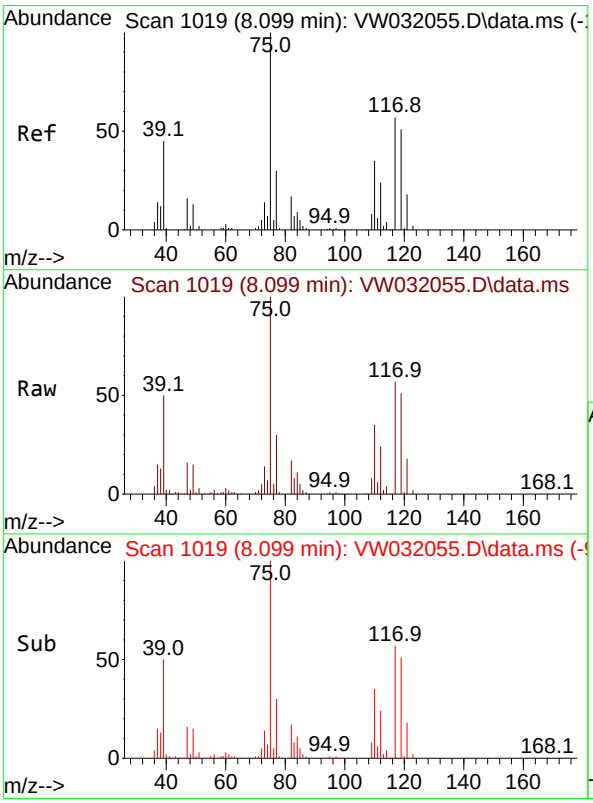
#35
Dibromofluoromethane
Concen: 50.279 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

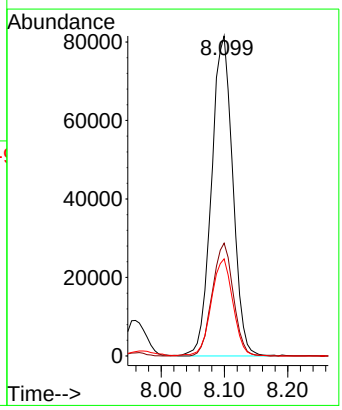


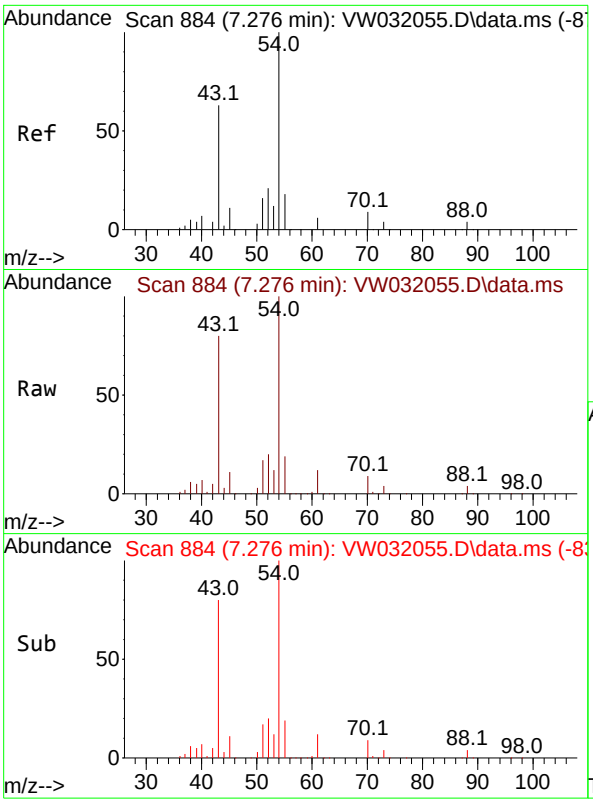


#36
1,1-Dichloropropene
Concen: 51.274 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



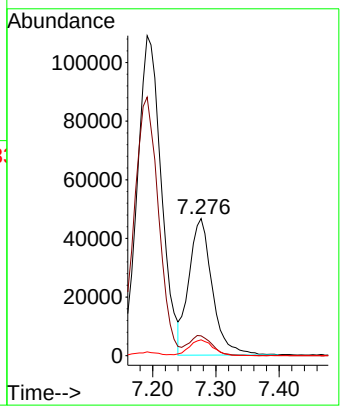


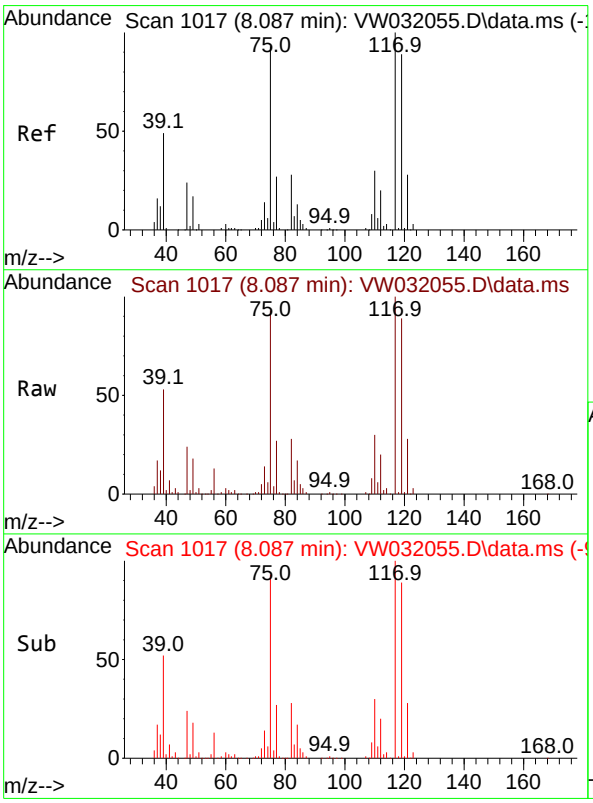
#37
Ethyl Acetate
Concen: 54.829 ug/l
RT: 7.276 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

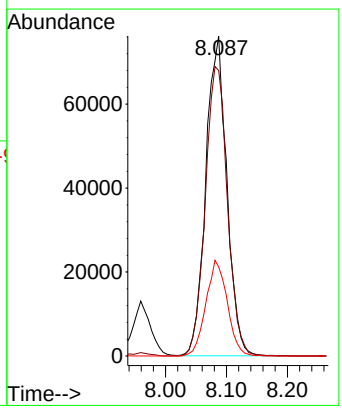


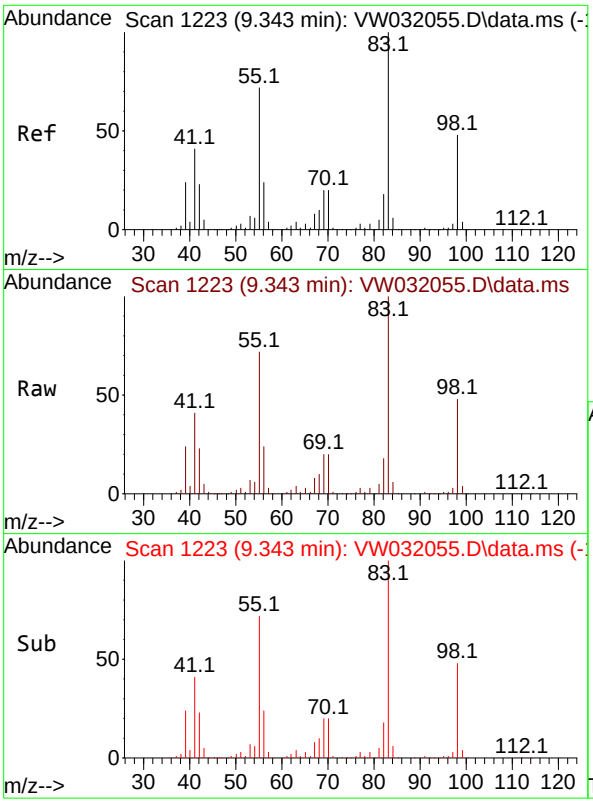


#38
Carbon Tetrachloride
Concen: 51.000 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



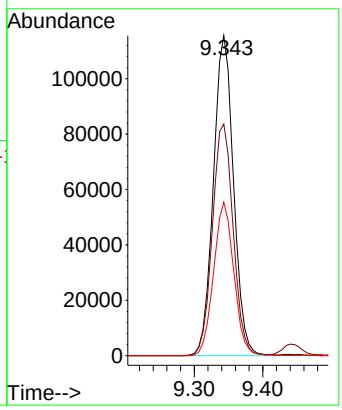


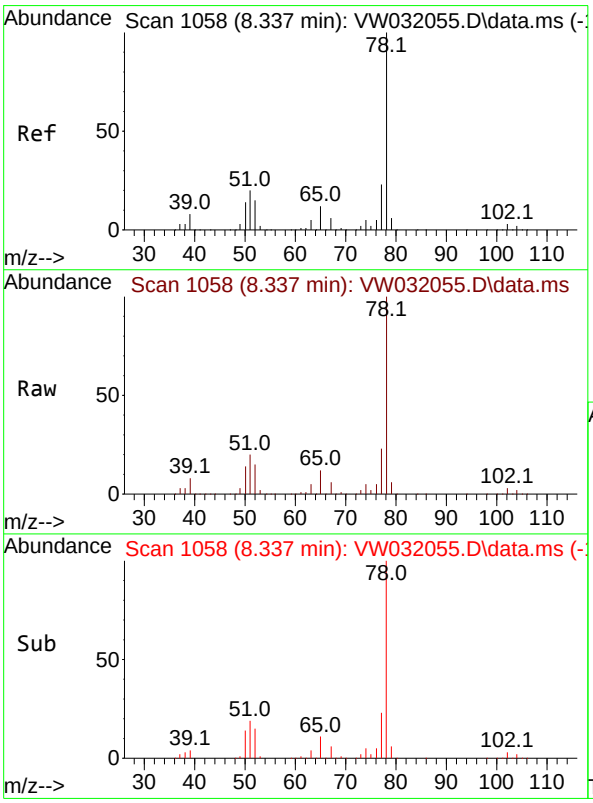
#39
Methylcyclohexane
Concen: 52.093 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

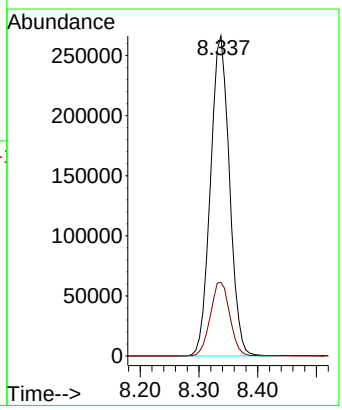


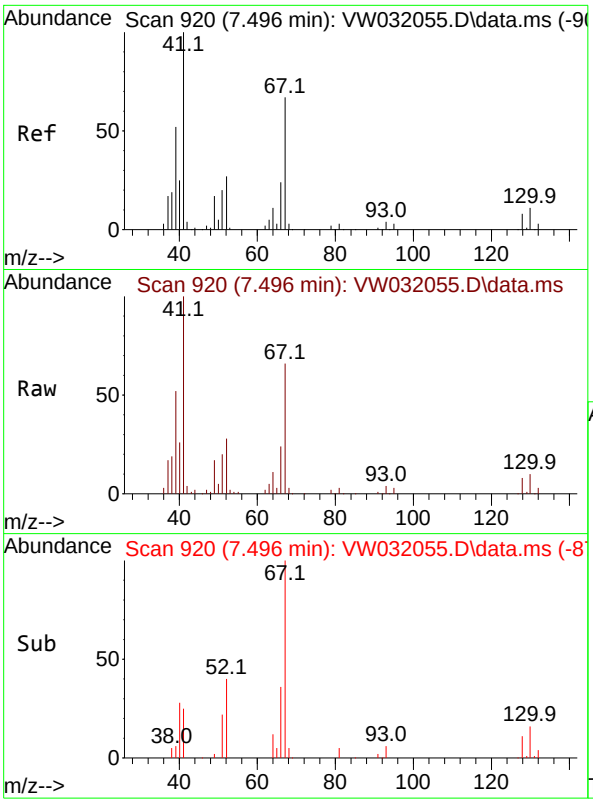


#40
Benzene
Concen: 51.883 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 78 Resp: 597760

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.4	27.6



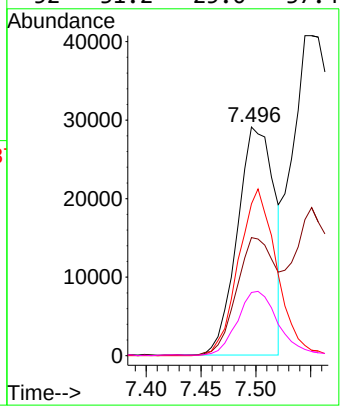


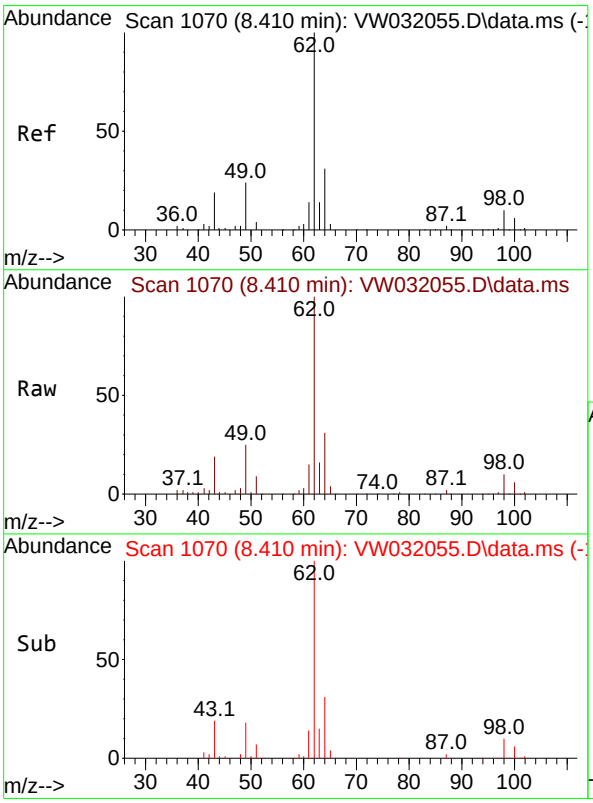
#41
Methacrylonitrile
Concen: 55.039 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

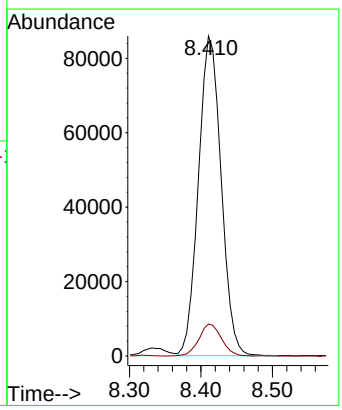


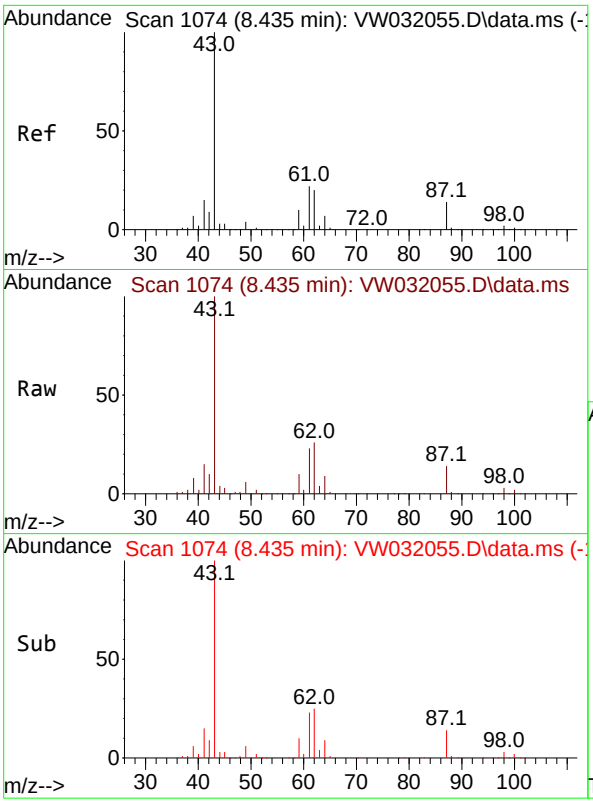


#42
1,2-Dichloroethane
Concen: 51.471 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 189755

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8



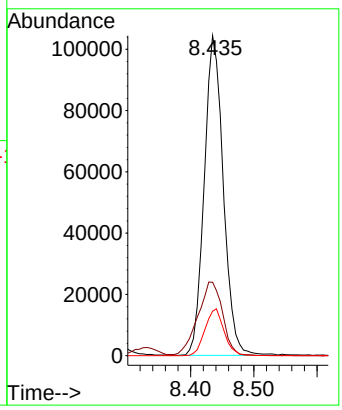


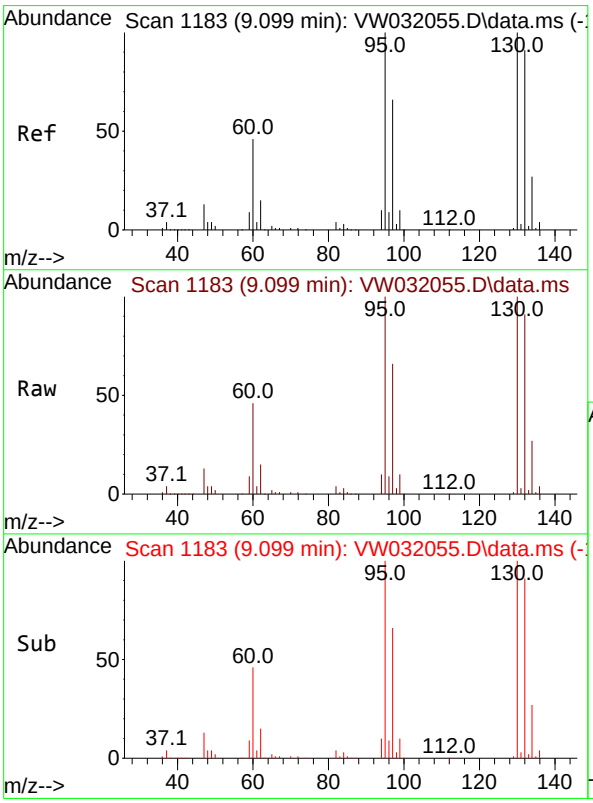
#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

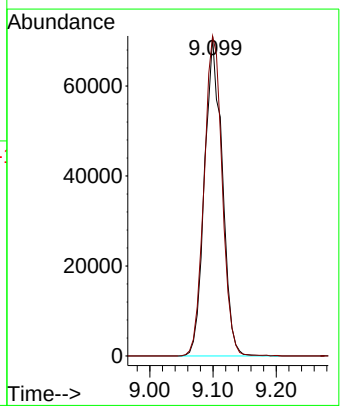


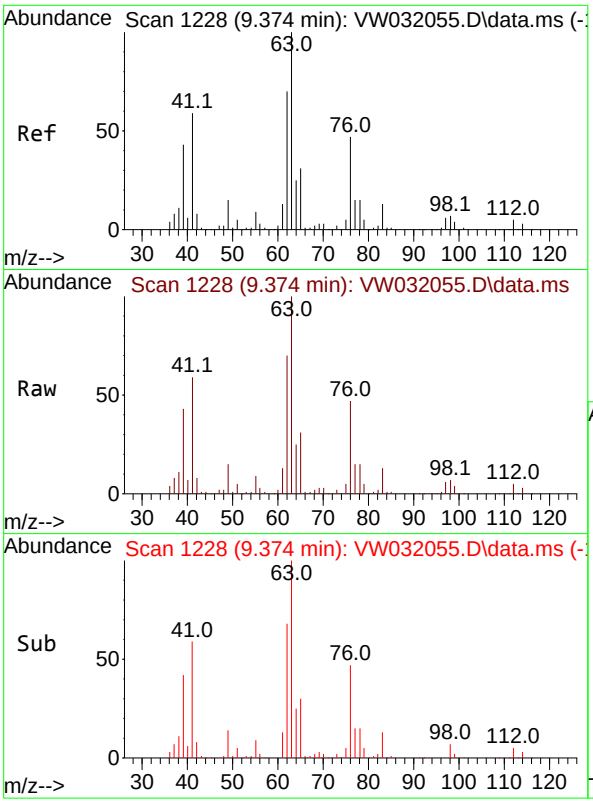


#44
Trichloroethene
Concen: 50.264 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:130 Resp: 137910

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	200.6



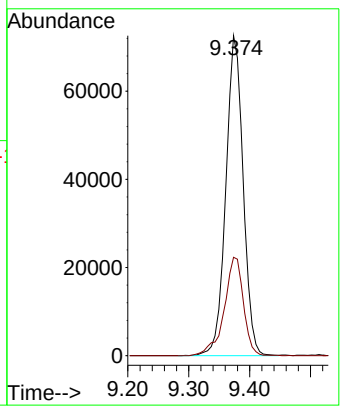


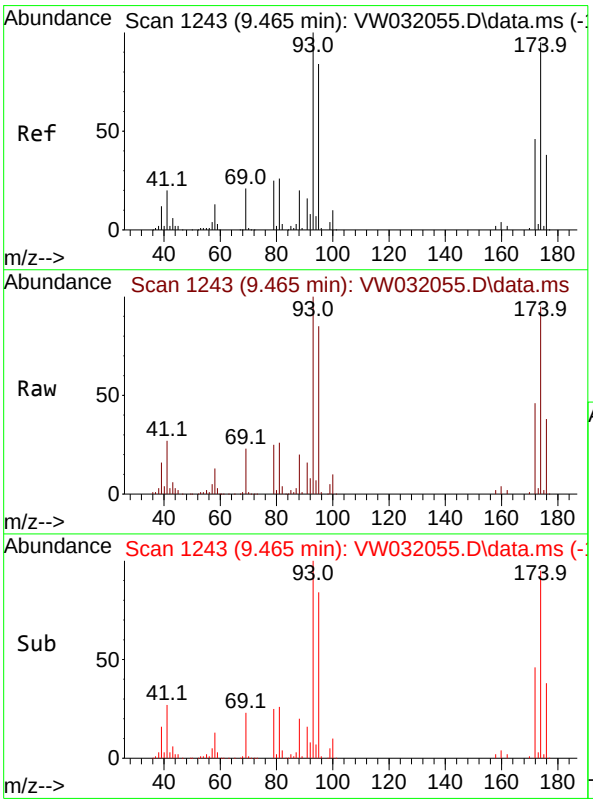
#45
1,2-Dichloropropane
Concen: 51.537 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 143446

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	36.8

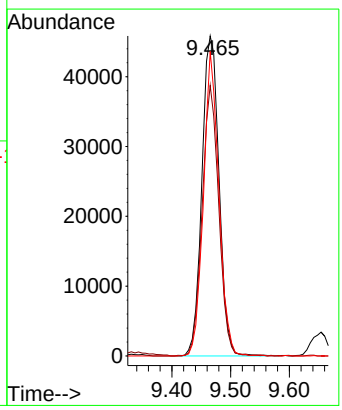


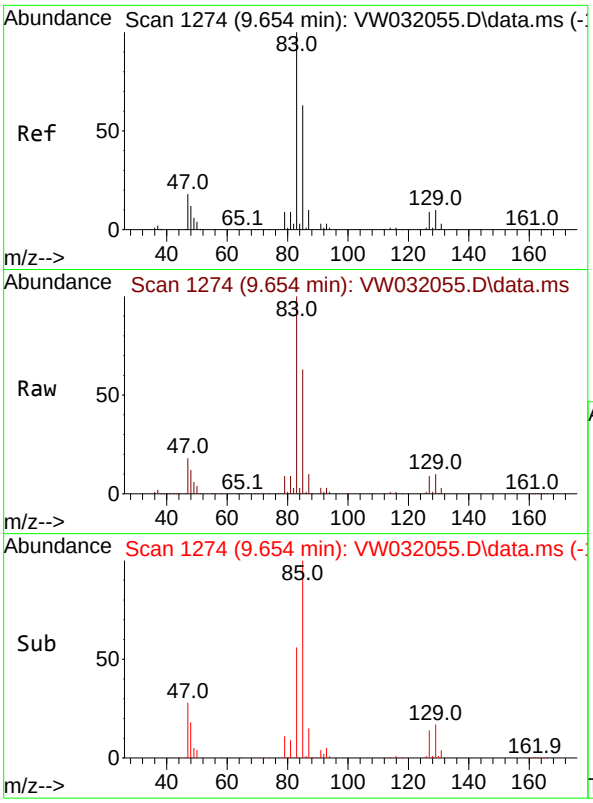


#46
Dibromomethane
Concen: 51.770 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



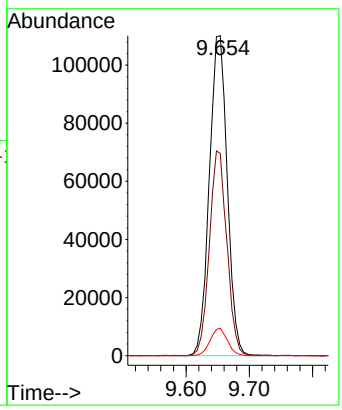


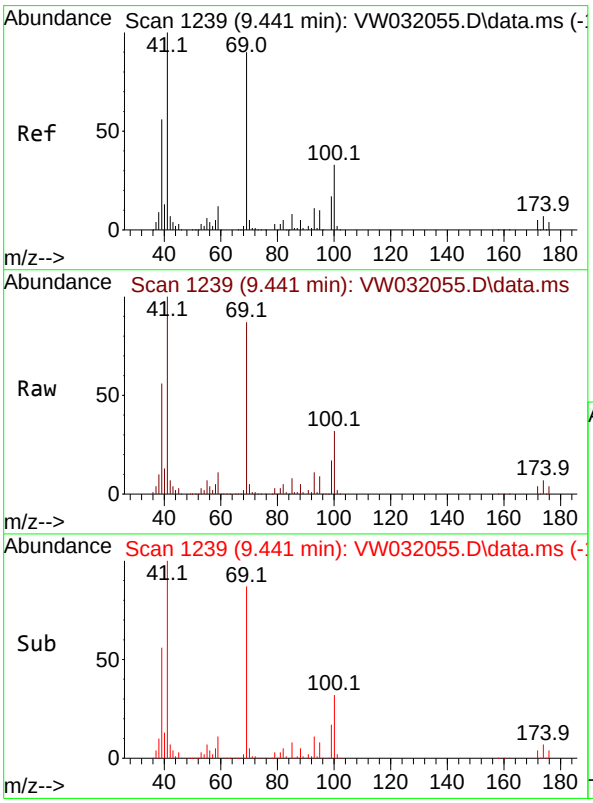
#47
Bromodichloromethane
Concen: 52.307 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

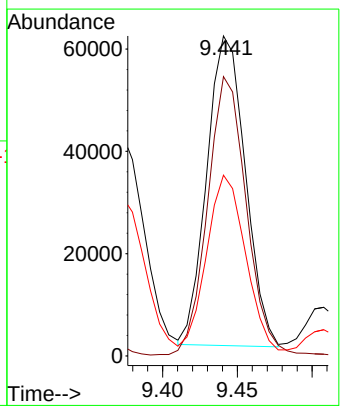


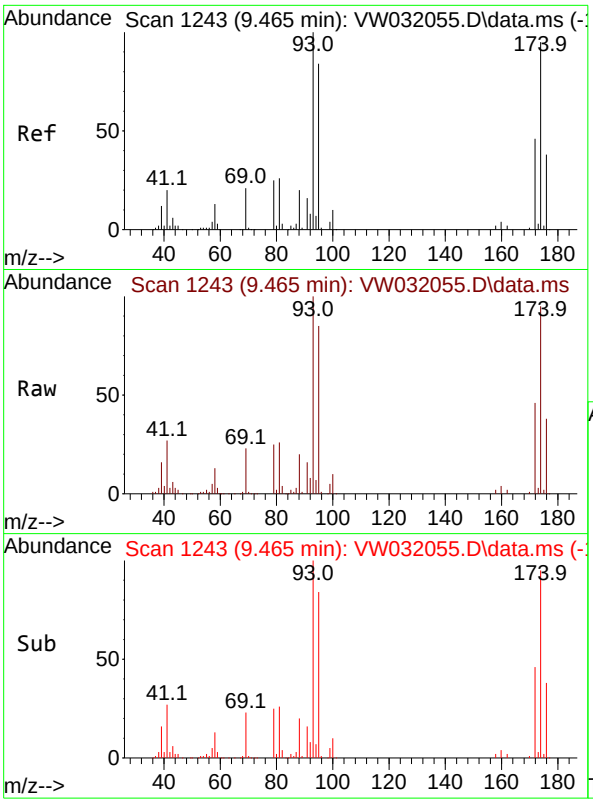


#48
Methyl methacrylate
Concen: 55.849 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



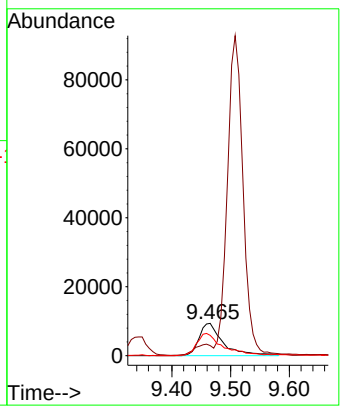


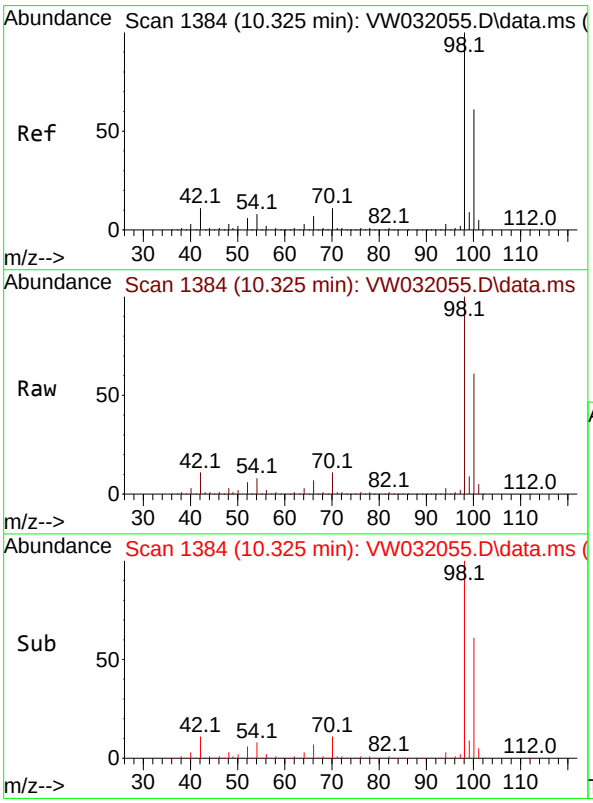
#49
1,4-Dioxane
Concen: 1144.321 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

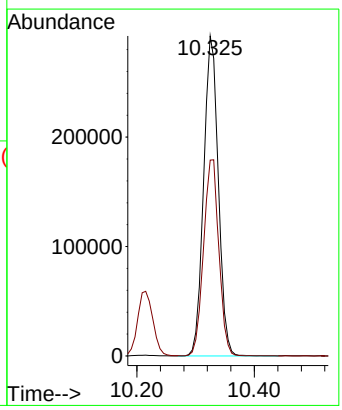


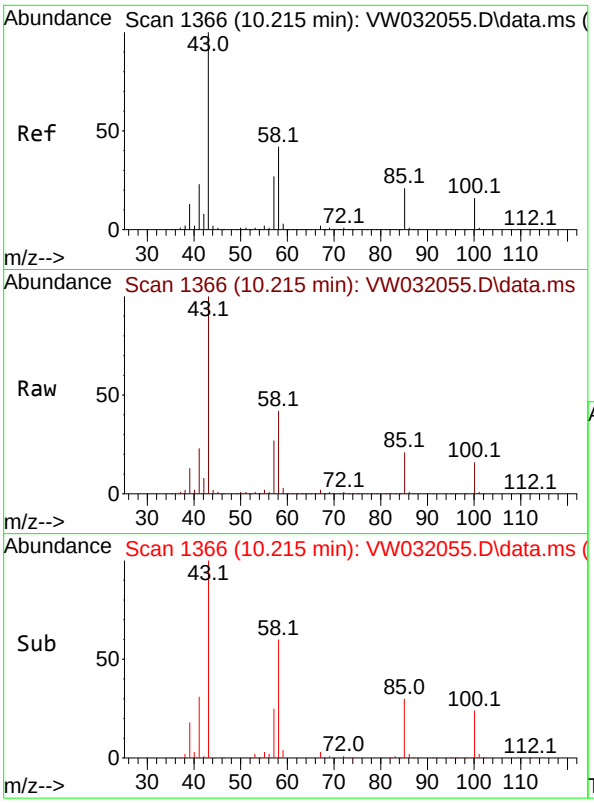


#50
Toluene-d8
Concen: 52.098 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 98 Resp: 506634

Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.1	76.7



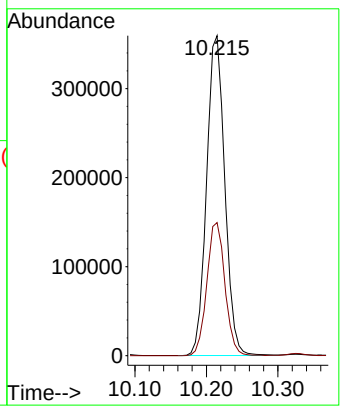


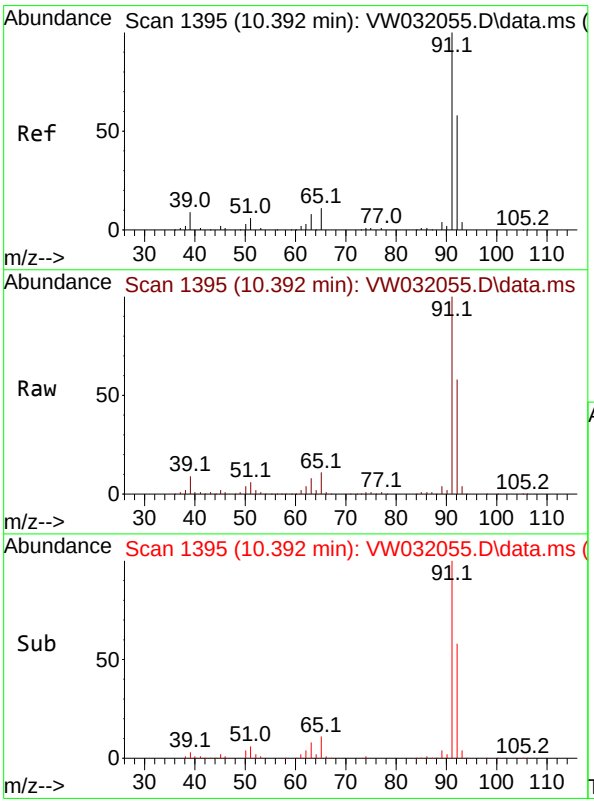
#51
4-Methyl-2-Pentanone
Concen: 280.194 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 635174

Ion	Ratio	Lower	Upper
43	100		
58	41.4	33.1	49.7

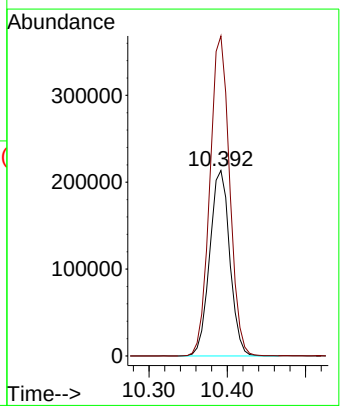


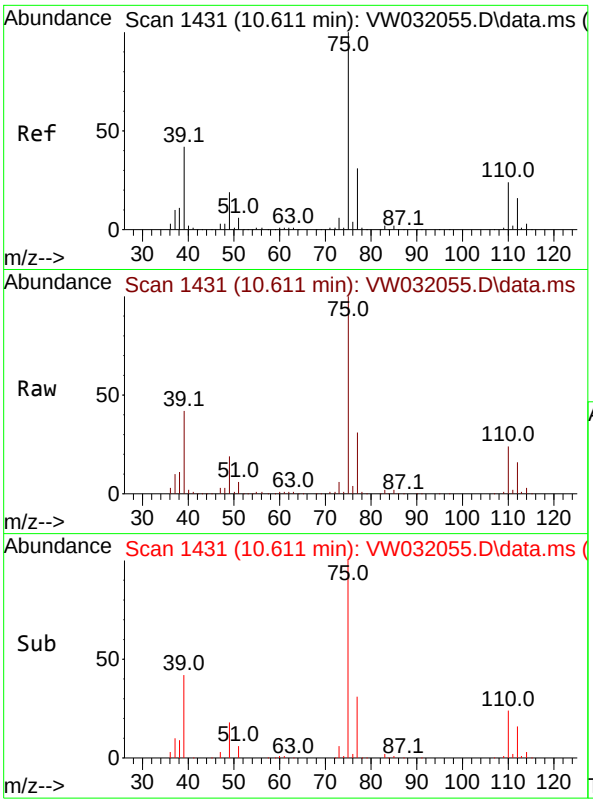


#52
Toluene
Concen: 52.258 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 92 Resp: 379230

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.3	204.5



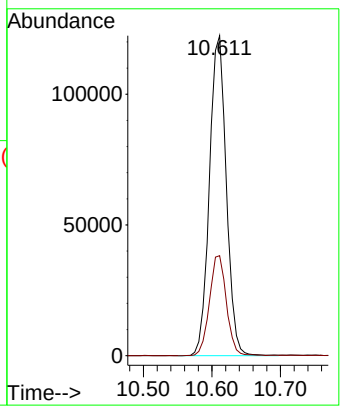


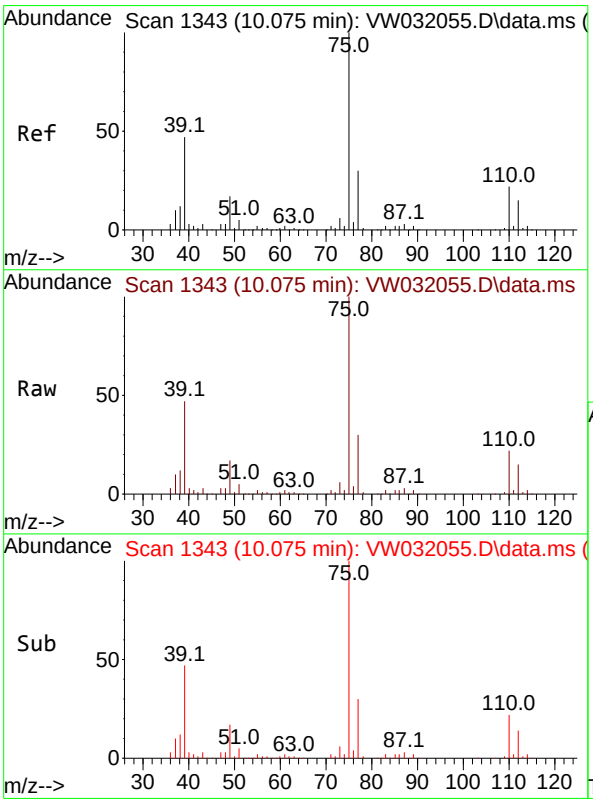
#53
t-1,3-Dichloropropene
Concen: 54.035 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 209555

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6

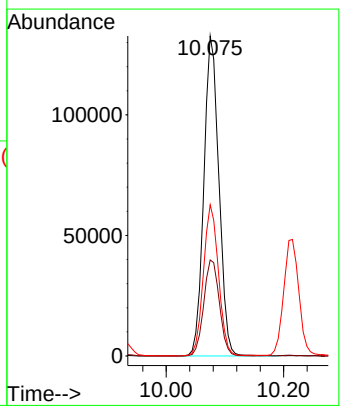


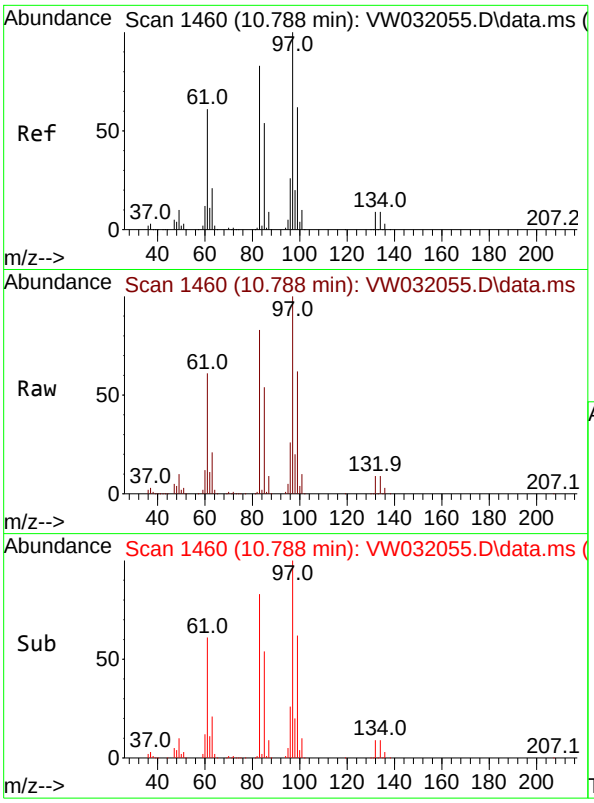


#54
cis-1,3-Dichloropropene
Concen: 53.744 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



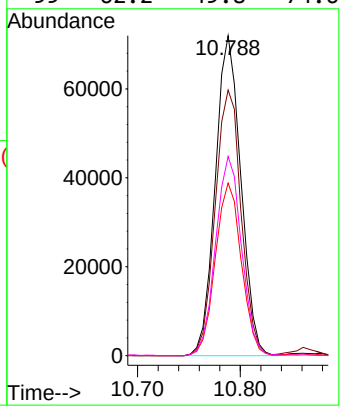


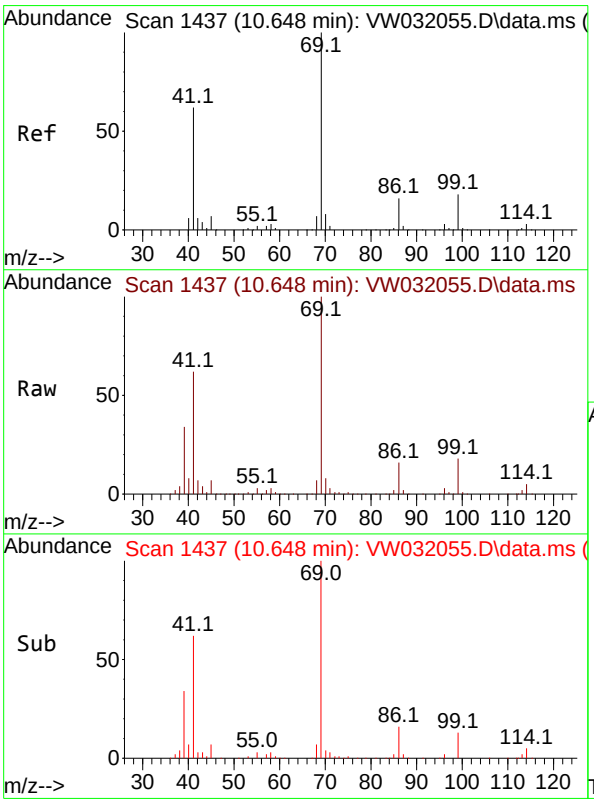
#55
1,1,2-Trichloroethane
Concen: 52.088 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

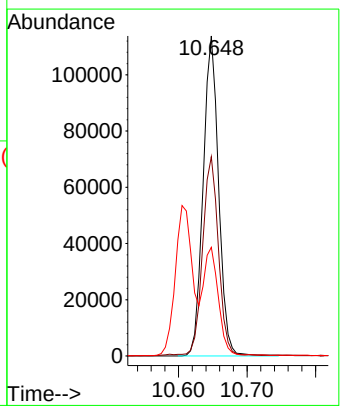


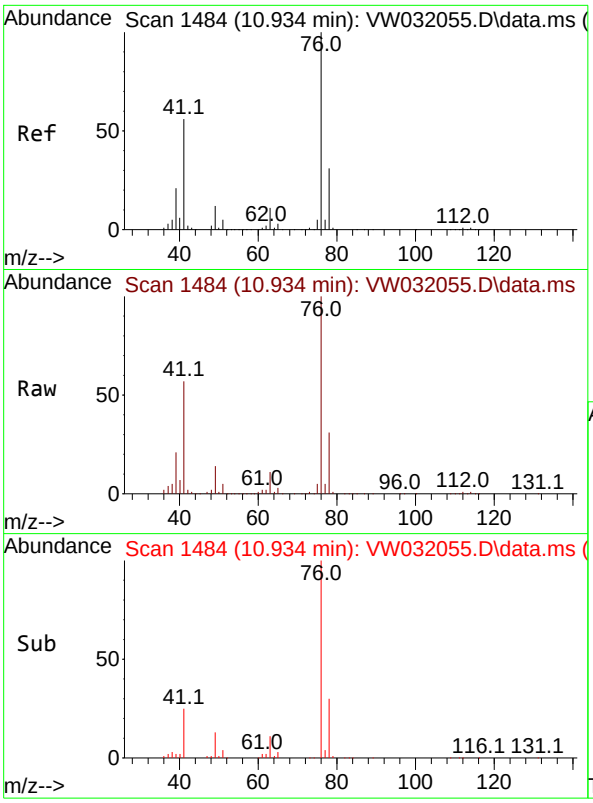


#56
Ethyl methacrylate
Concen: 56.027 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



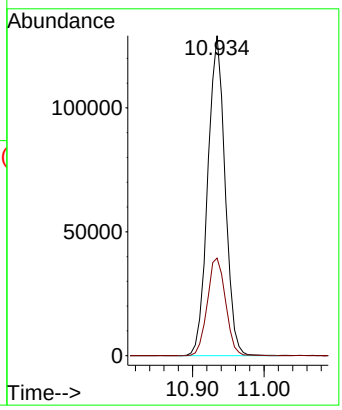


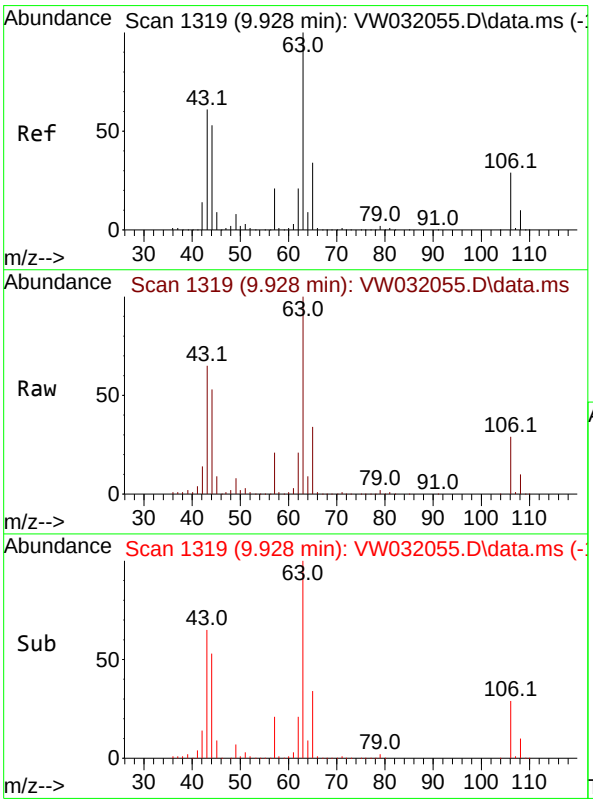
#57
1,3-Dichloropropane
Concen: 52.084 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 216719

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

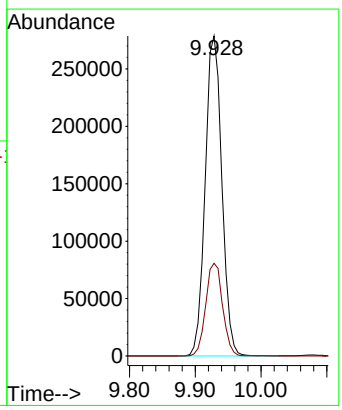


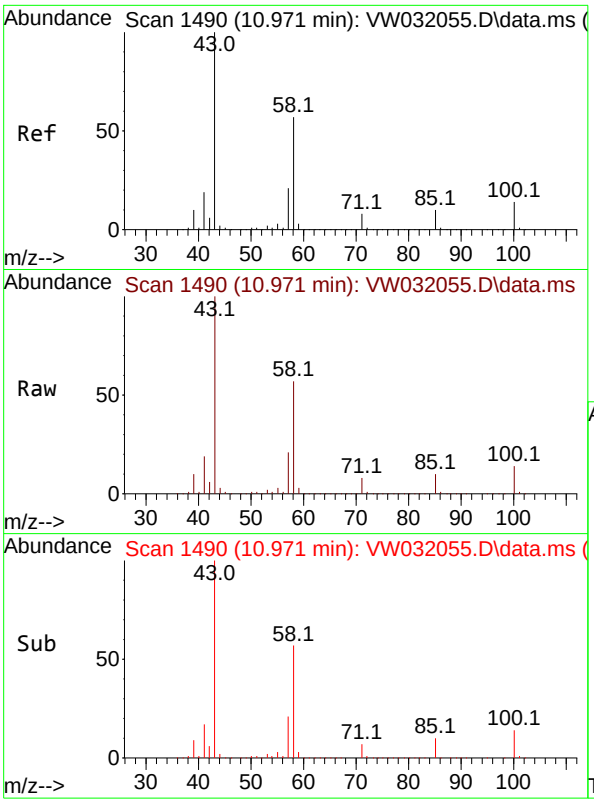


#58
2-Chloroethyl Vinyl ether
Concen: 277.613 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 490522

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.5	35.3



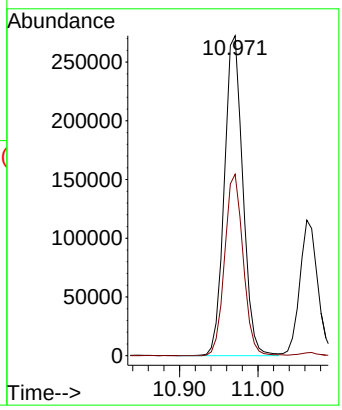


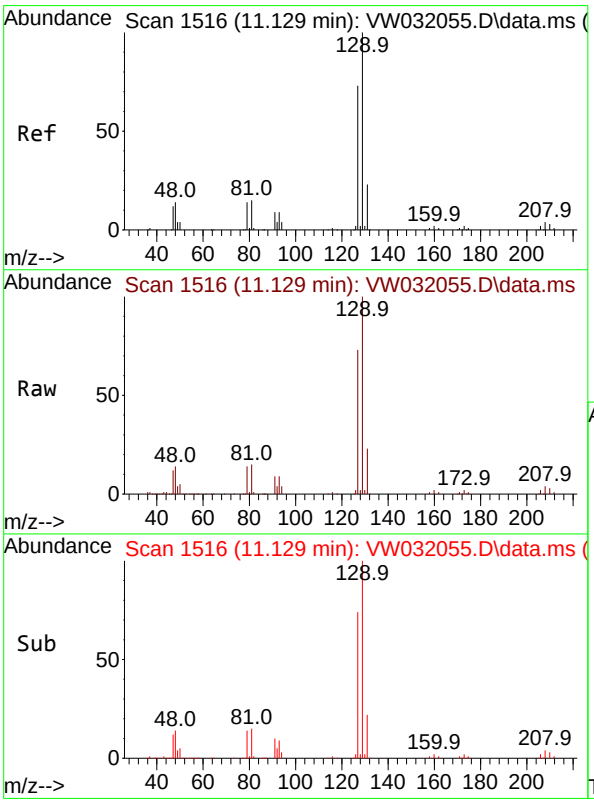
#59
2-Hexanone
Concen: 284.986 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 447423

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0

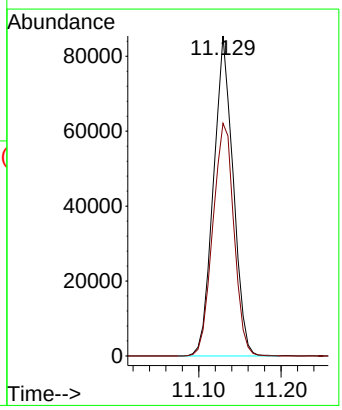


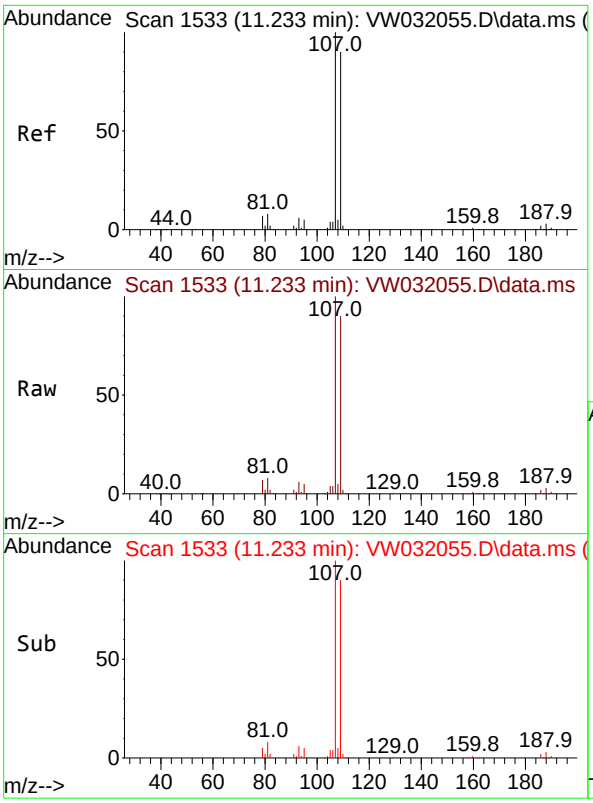


#60
Dibromochloromethane
Concen: 52.161 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:129 Resp: 142234

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	116.9



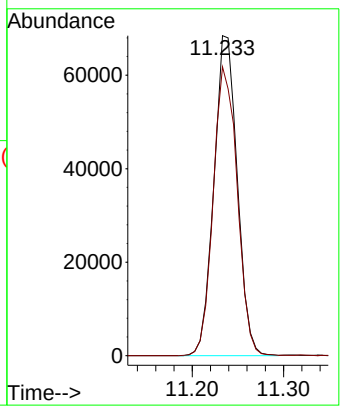


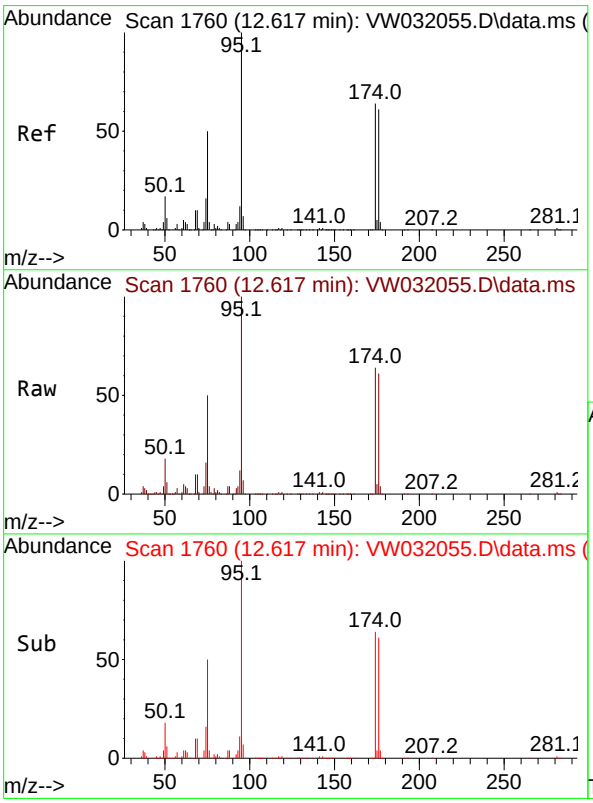
#61
1,2-Dibromoethane
Concen: 52.430 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 121625

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.2	111.4

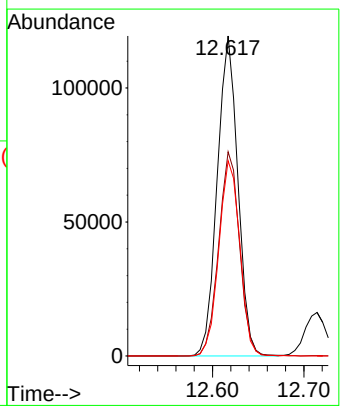


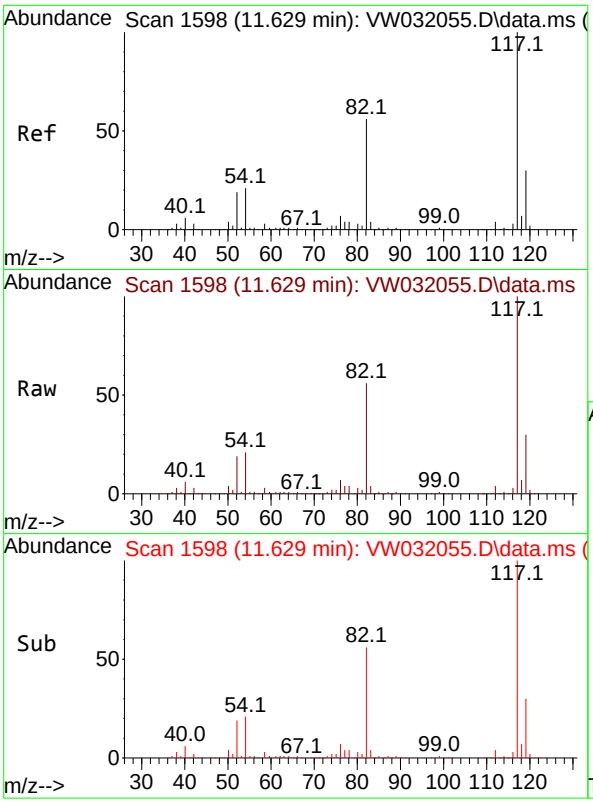


#62
4-Bromofluorobenzene
Concen: 52.274 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



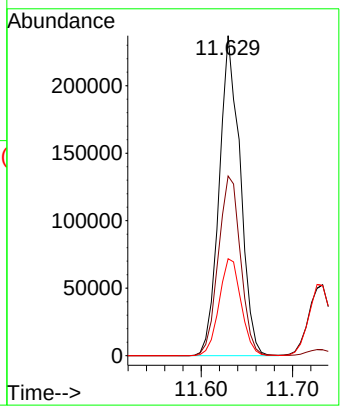


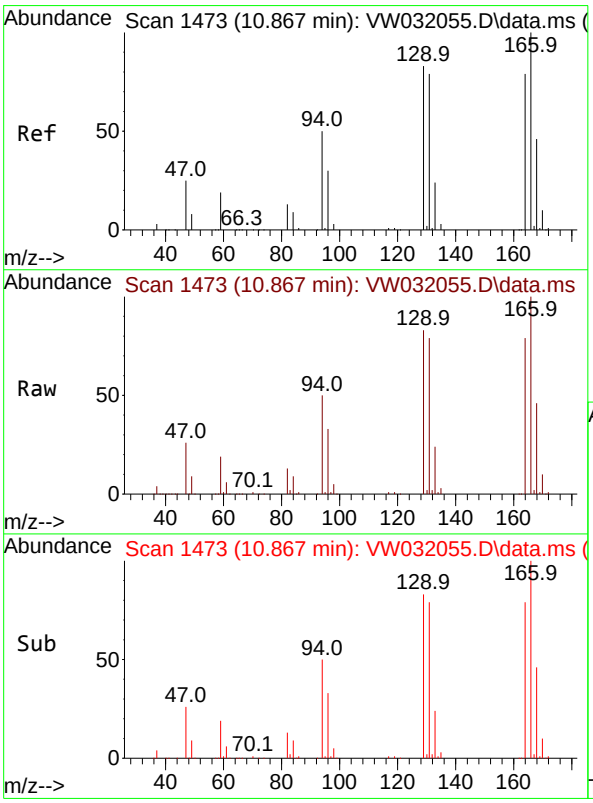
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

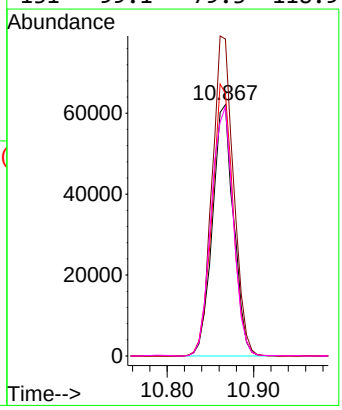


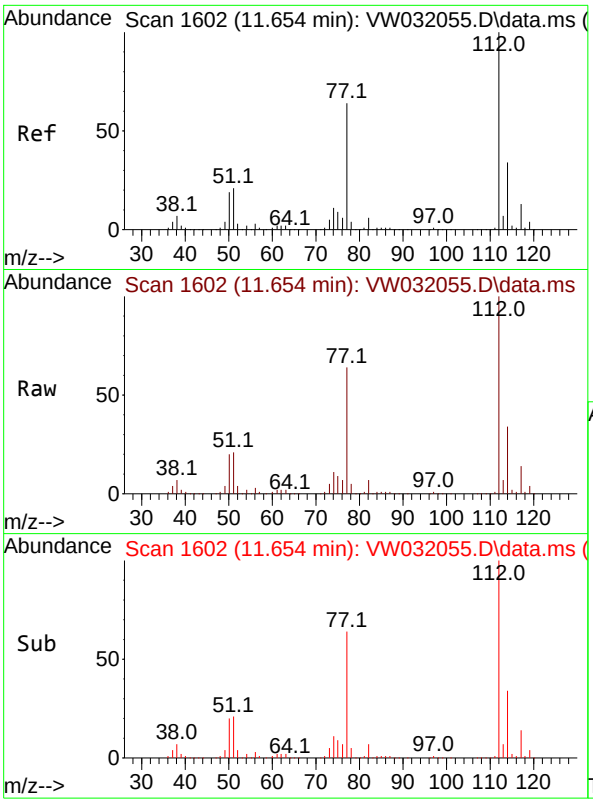


#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



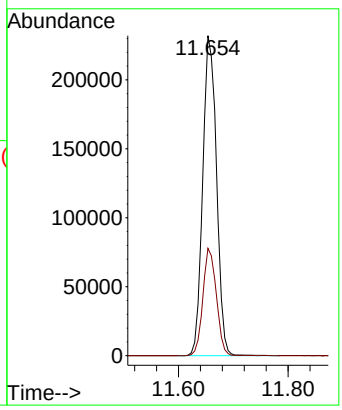


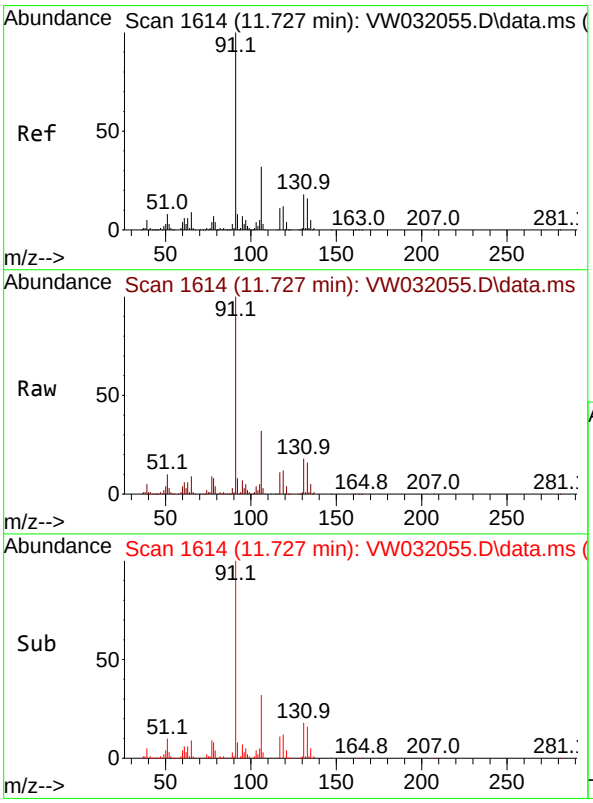
#65
Chlorobenzene
Concen: 49.082 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 403926

Ion	Ratio	Lower	Upper
112	100		
114	33.6	26.9	40.3

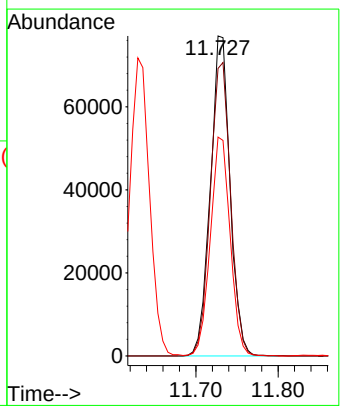


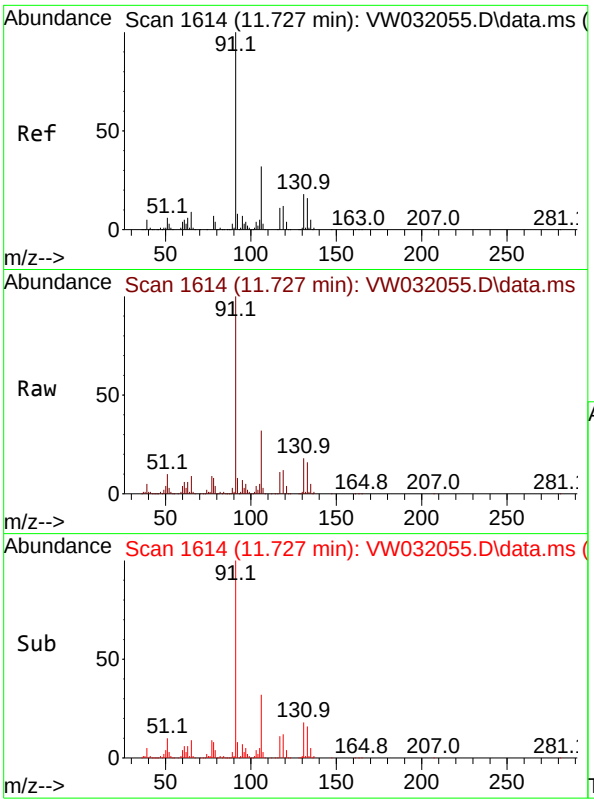


#66
1,1,1,2-Tetrachloroethane
Concen: 49.935 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



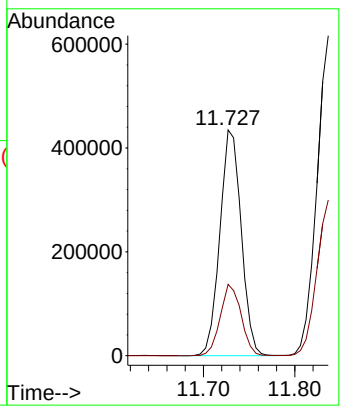


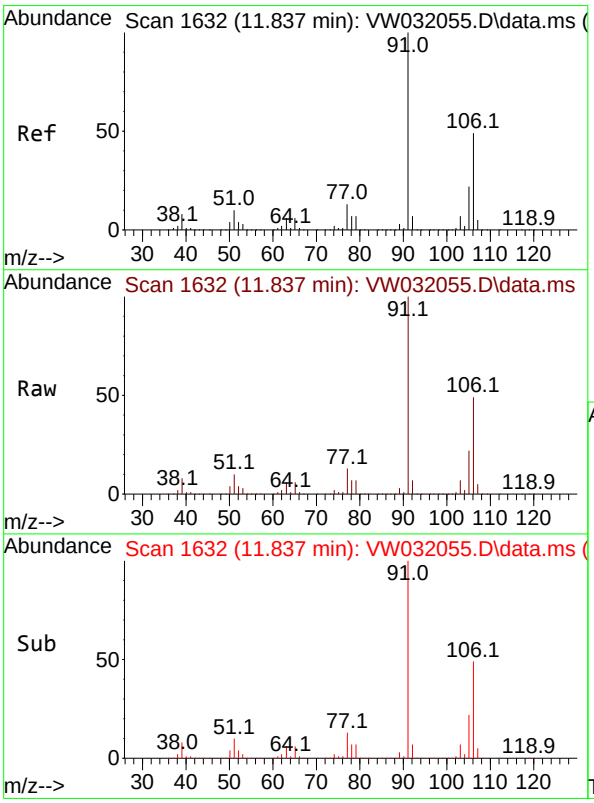
#67
Ethyl Benzene
Concen: 50.709 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 706877

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.4	38.0

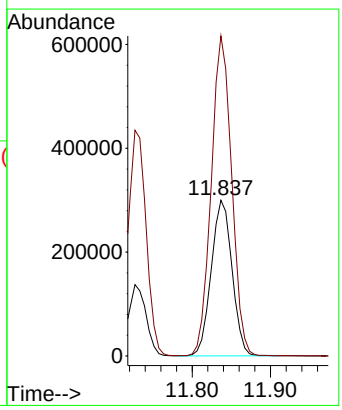


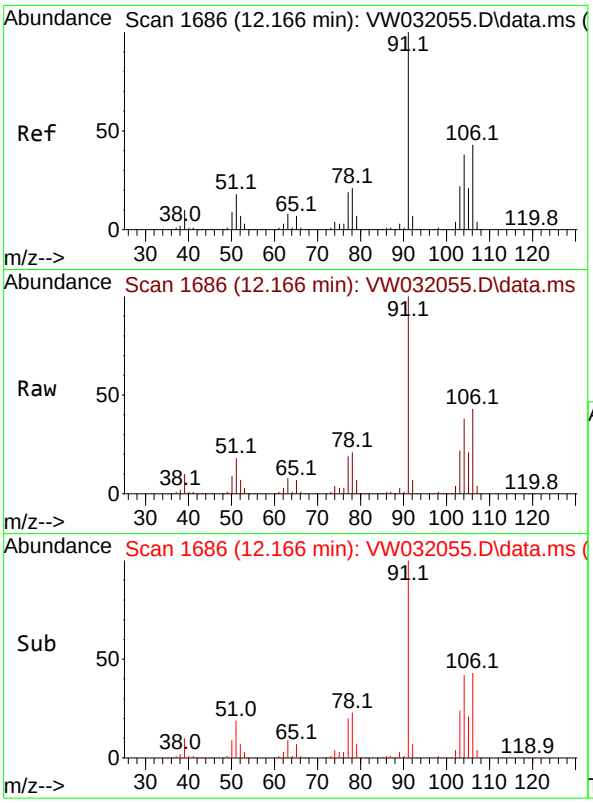


#68
m/p-Xylenes
Concen: 102.704 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:106 Resp: 552442

Ion	Ratio	Lower	Upper
106	100		
91	202.7	162.2	243.2



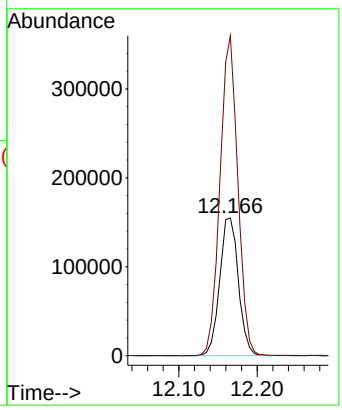


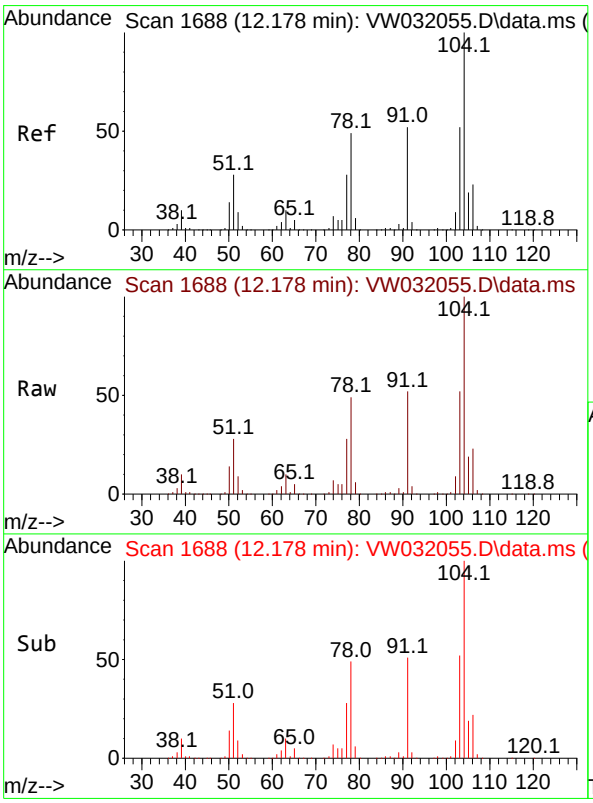
#69
o-Xylene
Concen: 51.812 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 257591

Ion	Ratio	Lower	Upper
106	100		
91	221.5	110.8	332.3

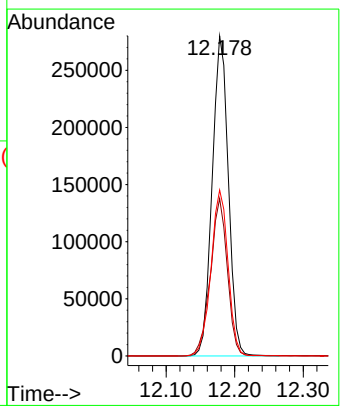


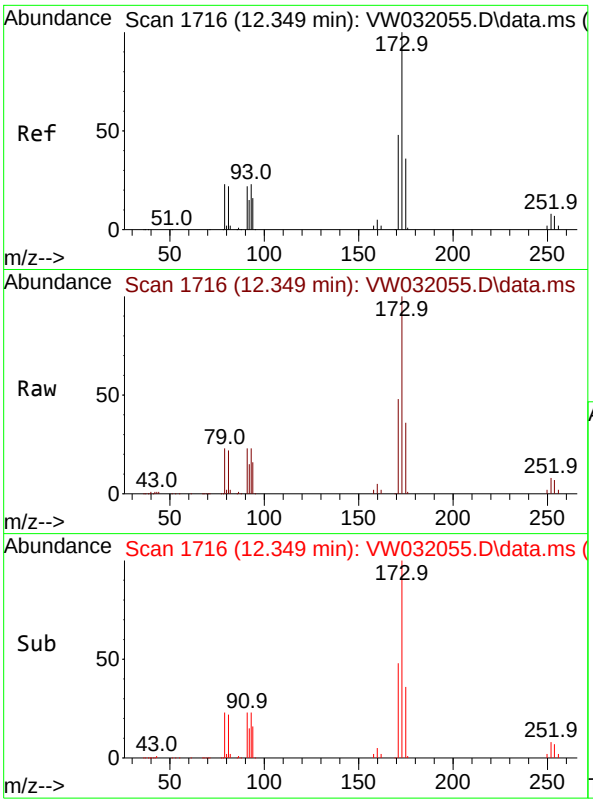


#70
Styrene
Concen: 51.858 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



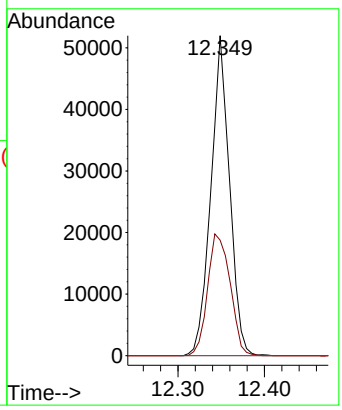


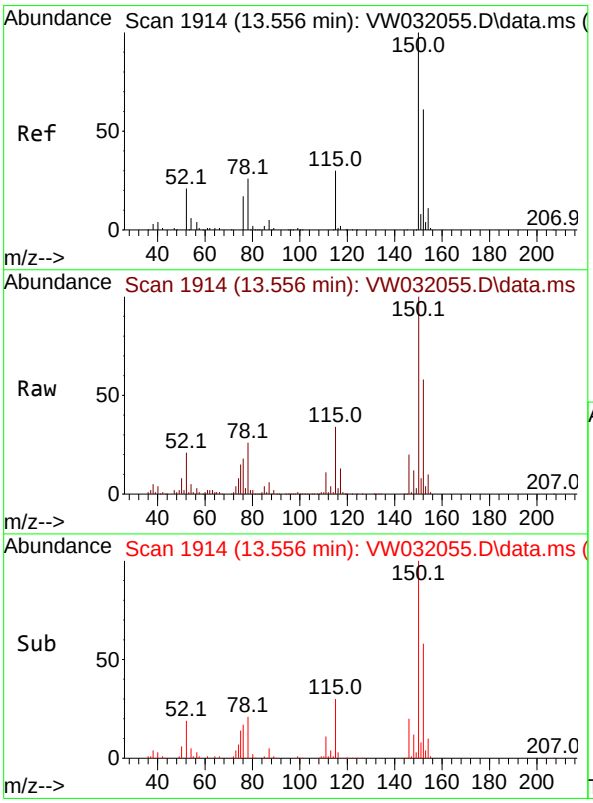
#71
Bromoform
Concen: 53.078 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

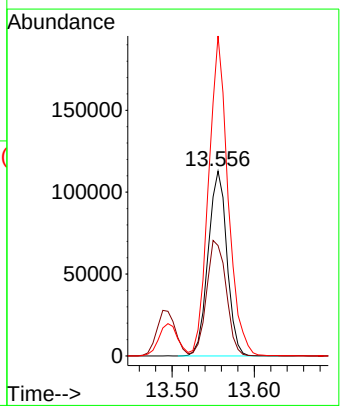


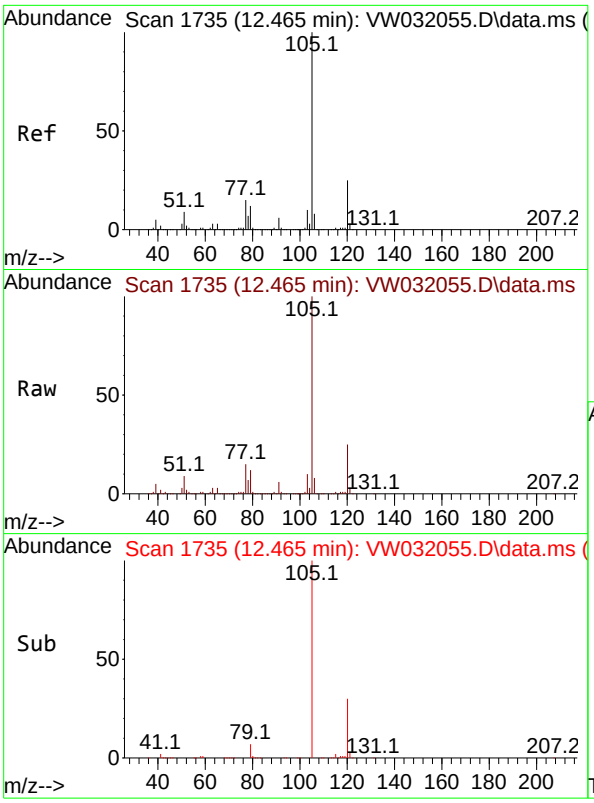


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



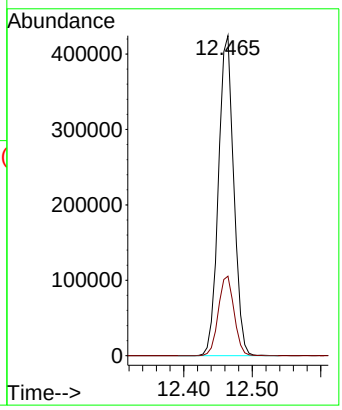


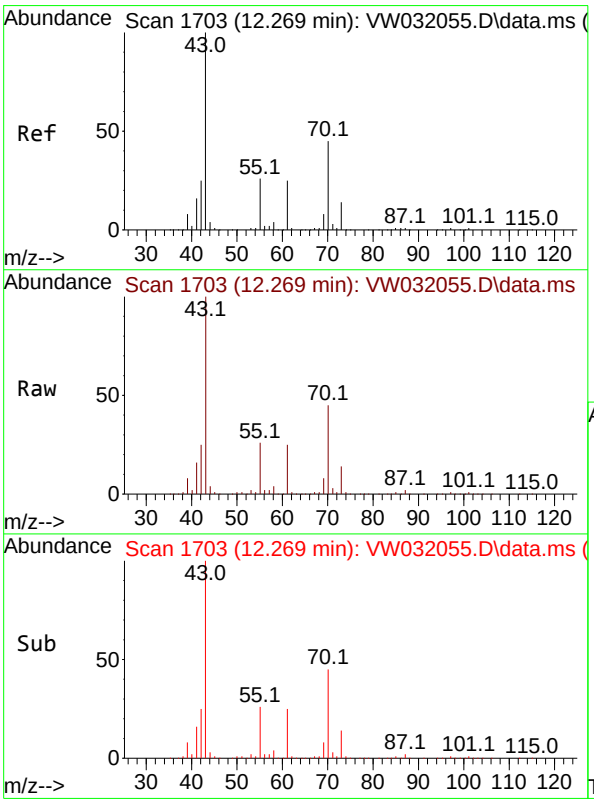
#73
Isopropylbenzene
Concen: 52.323 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 654522

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

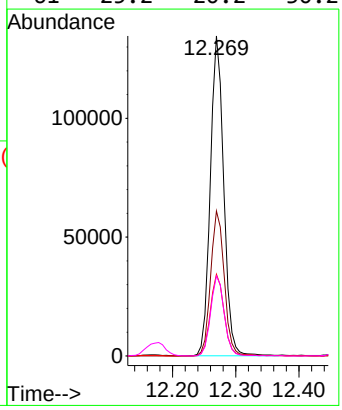


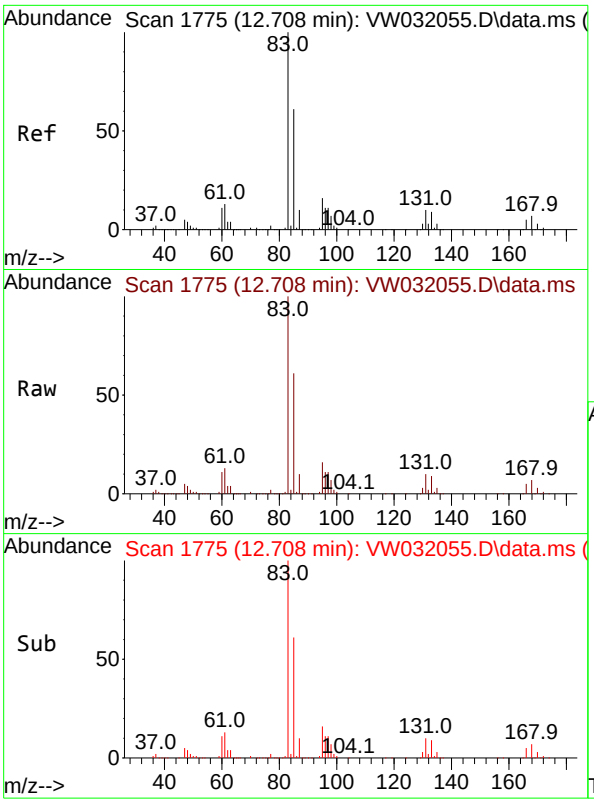


#74
N-amyl acetate
Concen: 55.520 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



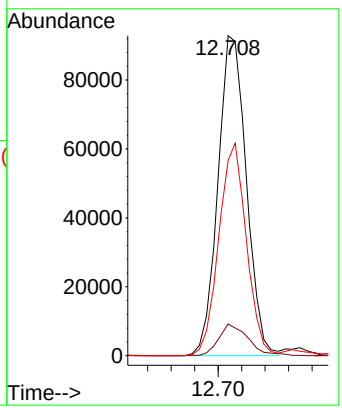


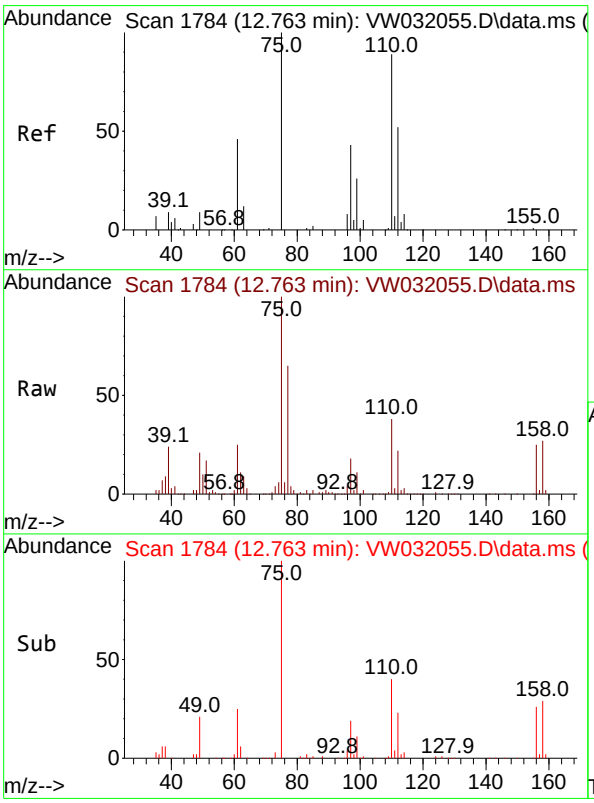
#75
1,1,2,2-Tetrachloroethane
Concen: 52.549 ug/l
RT: 12.708 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

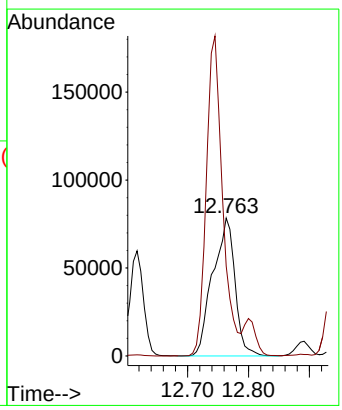


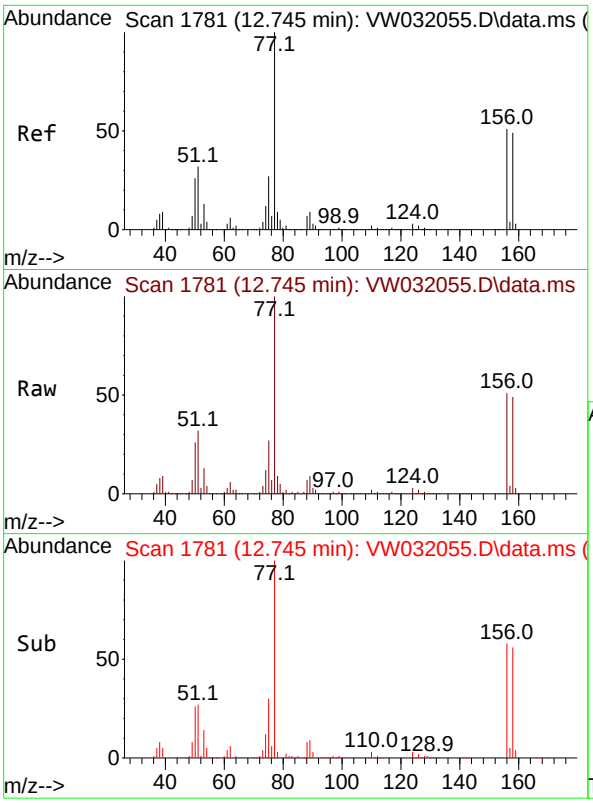


#76
1,2,3-Trichloropropane
Concen: 72.113 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 198427

Ion	Ratio	Lower	Upper
75	100		
77	171.4	123.5	370.5



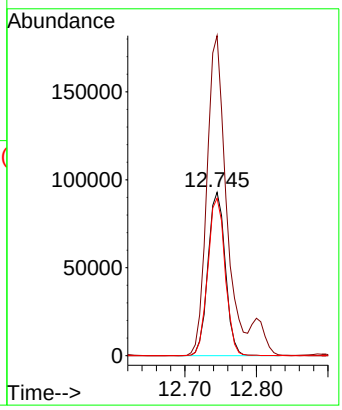


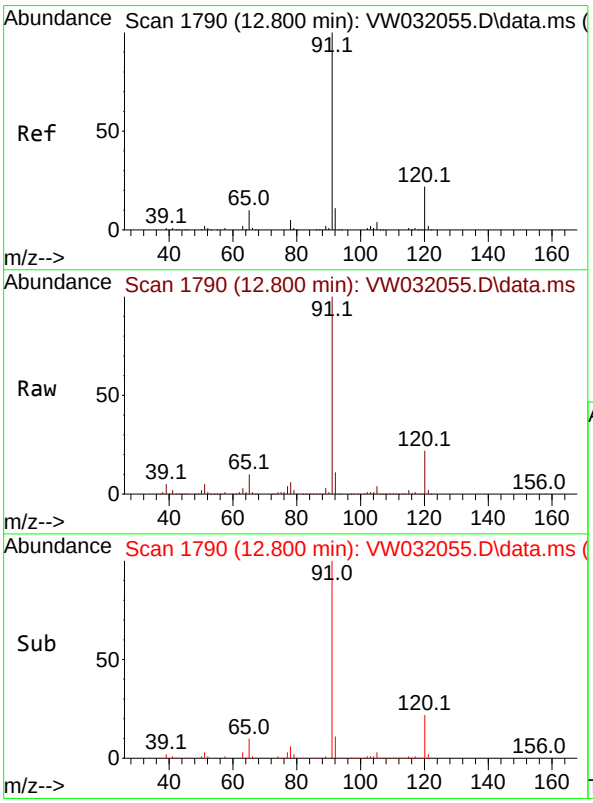
#77
Bromobenzene
Concen: 52.326 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

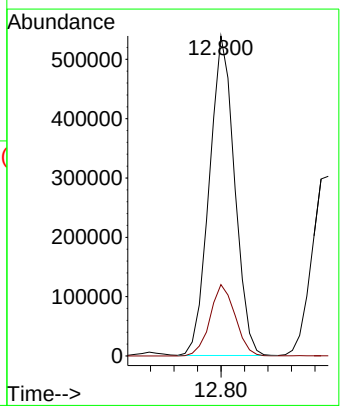


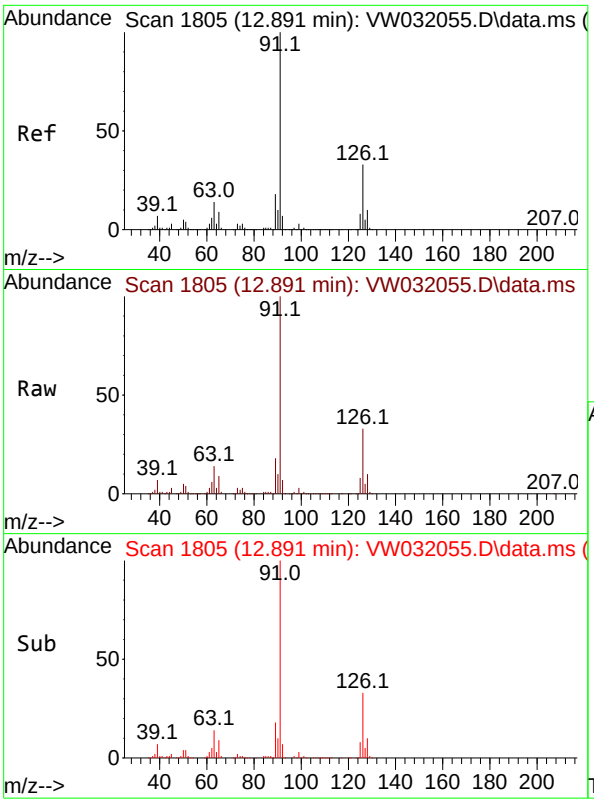


#78
n-propylbenzene
Concen: 52.304 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 805515

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



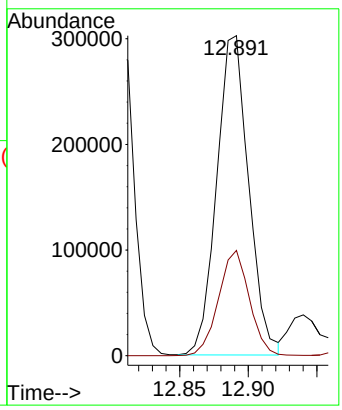


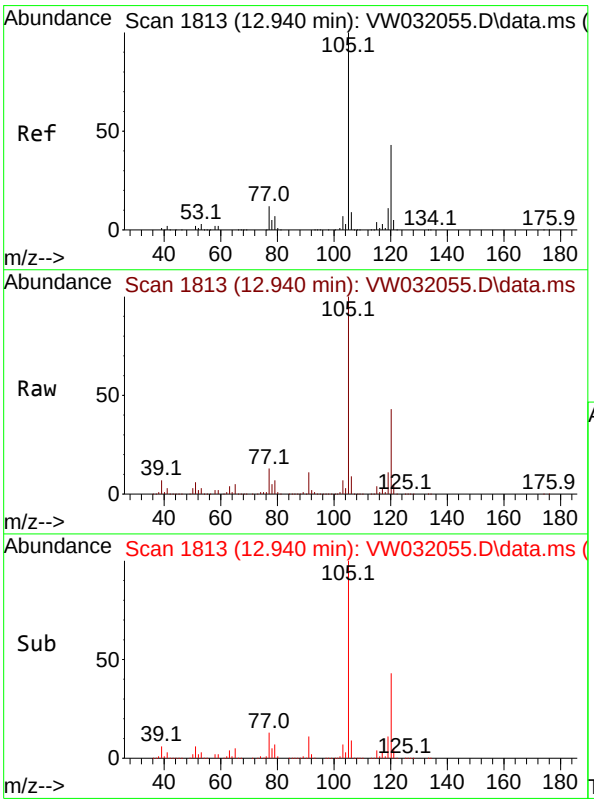
#79
2-Chlorotoluene
Concen: 51.622 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 490665

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7

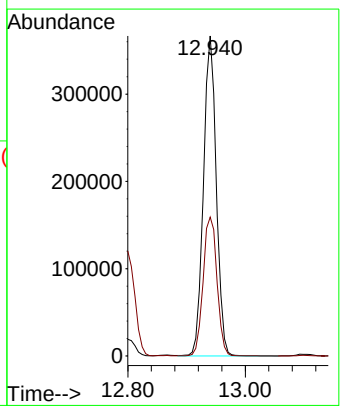


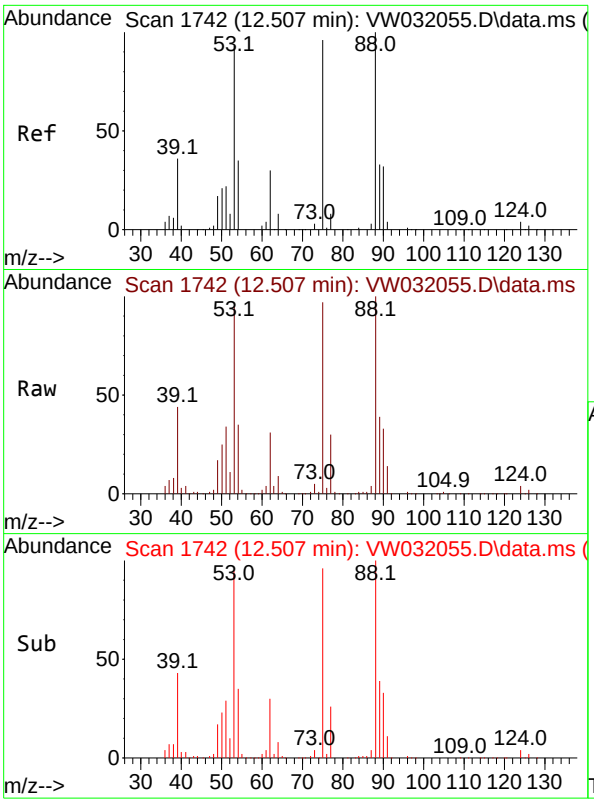


#80
1,3,5-Trimethylbenzene
Concen: 52.305 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 555481

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.4	70.0



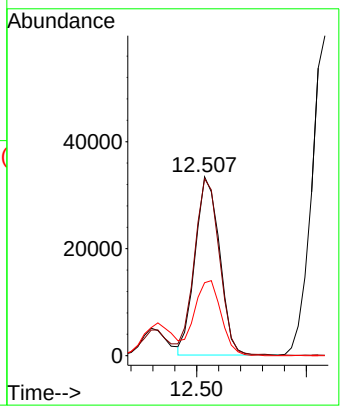


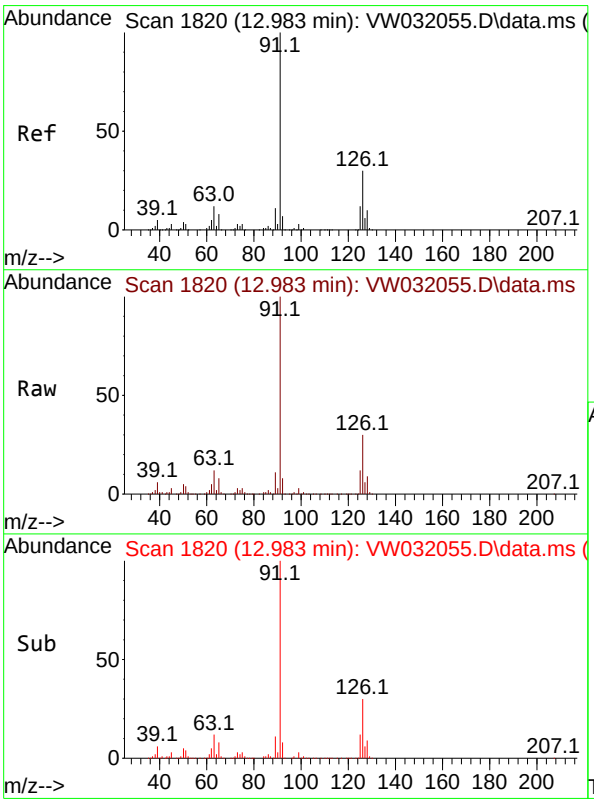
#81
trans-1,4-Dichloro-2-butene
Concen: 55.213 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

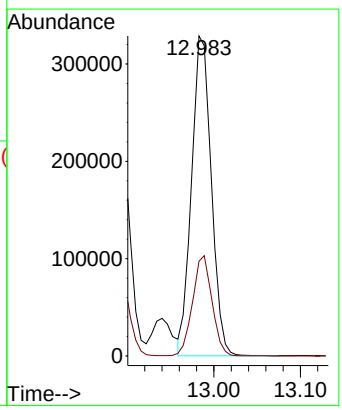


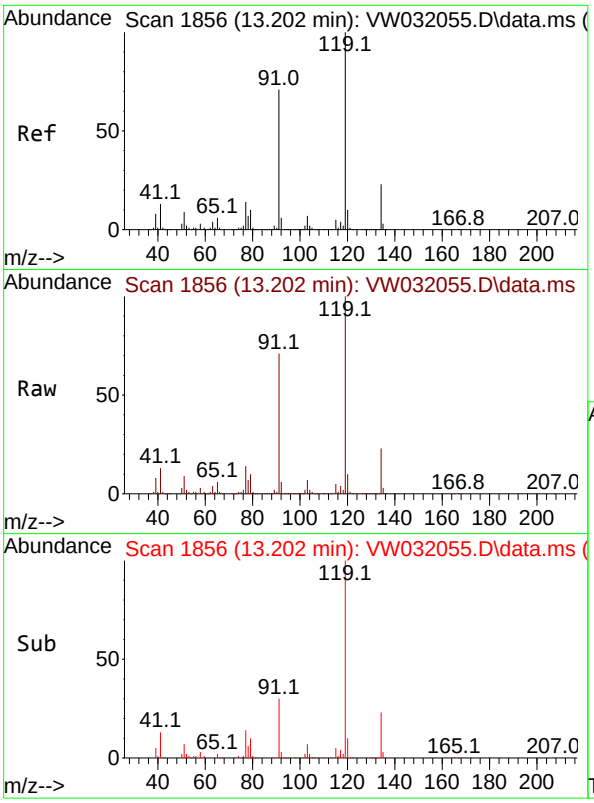


#82
4-Chlorotoluene
Concen: 51.488 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 519957

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.5	46.5



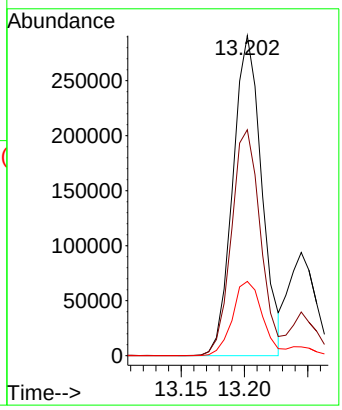


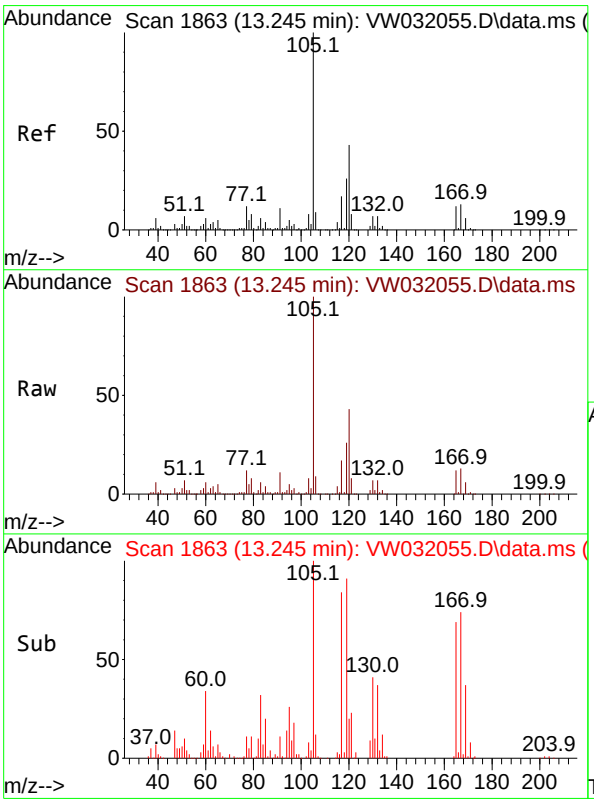
#83
tert-Butylbenzene
Concen: 52.460 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

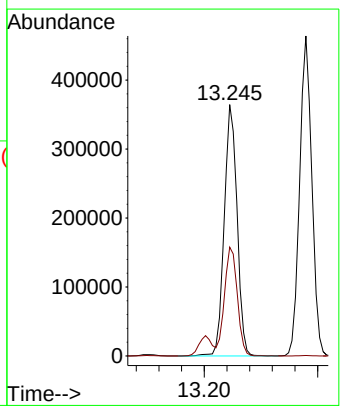


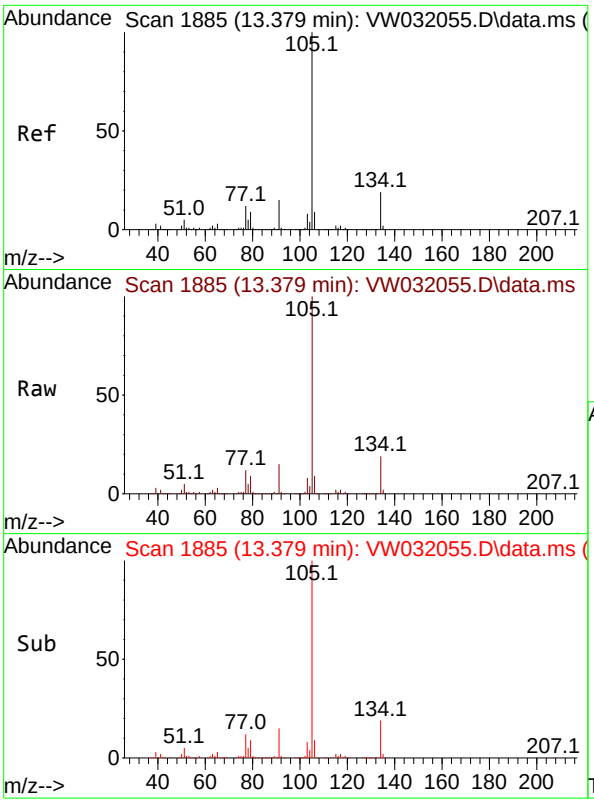


#84
1,2,4-Trimethylbenzene
Concen: 52.950 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 572429

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8



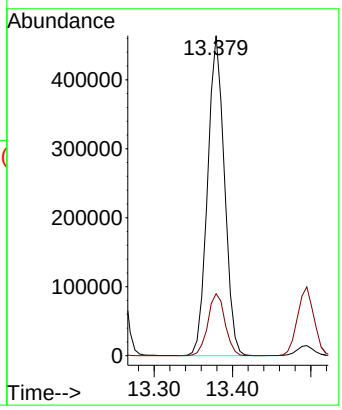


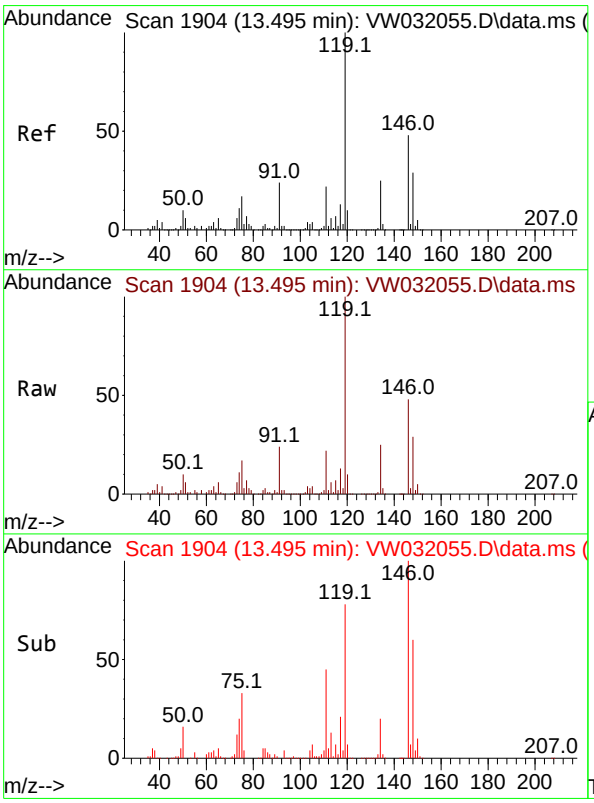
#85
sec-Butylbenzene
Concen: 51.829 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 690647

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

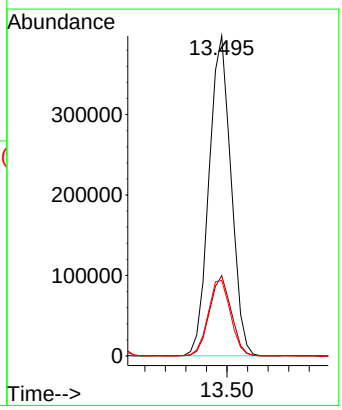


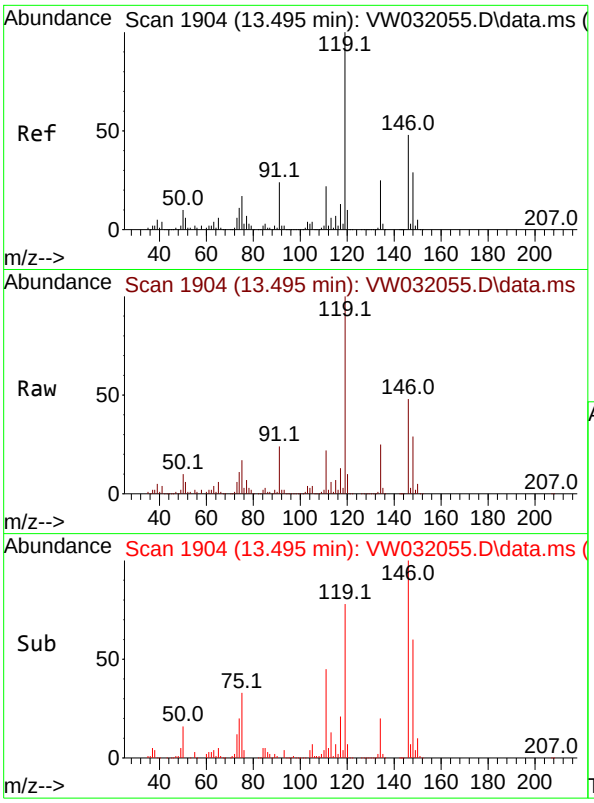


#86
p-Isopropyltoluene
Concen: 53.089 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



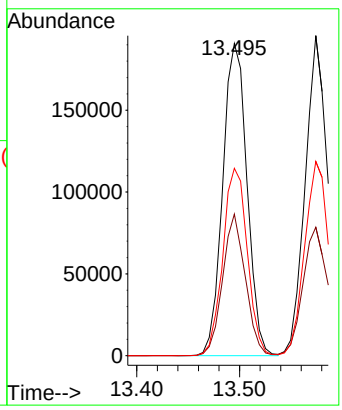


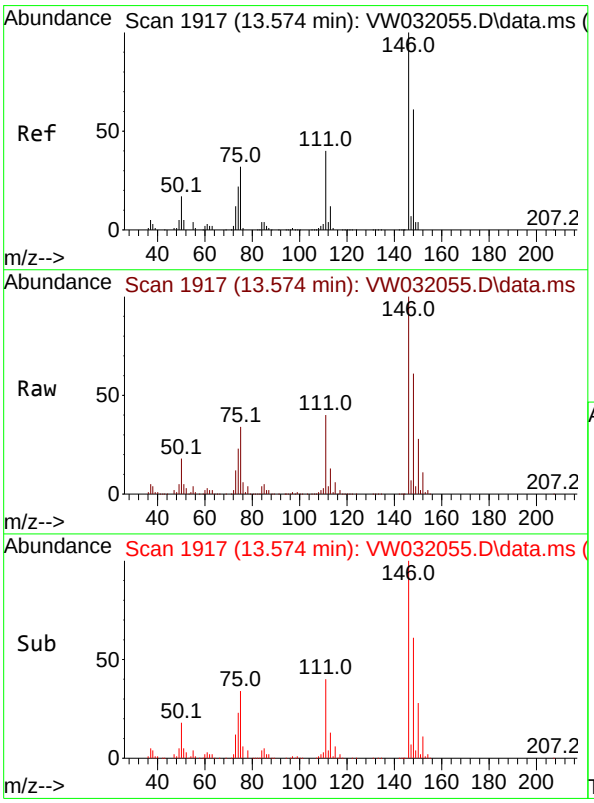
#87
1,3-Dichlorobenzene
Concen: 52.754 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

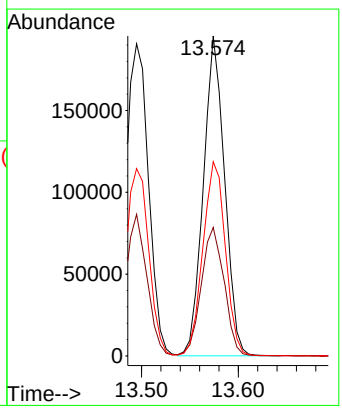


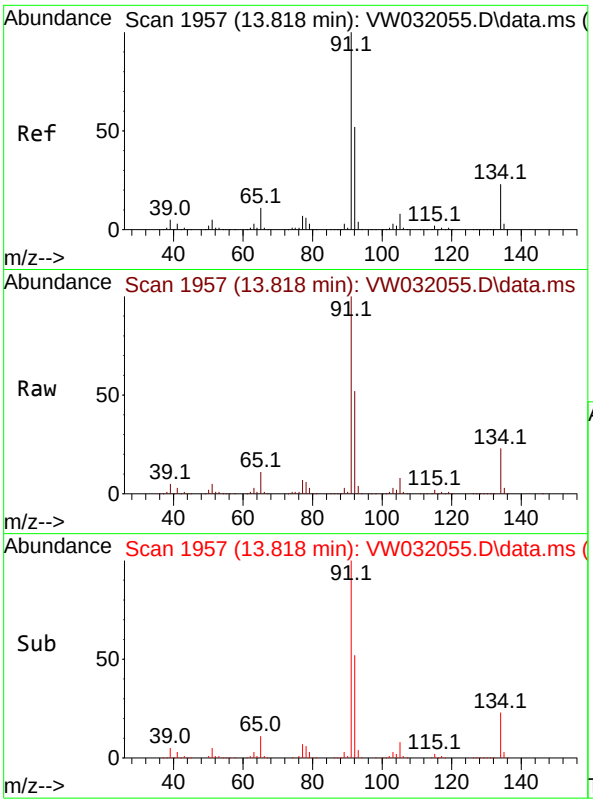


#88
1,4-Dichlorobenzene
Concen: 49.844 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



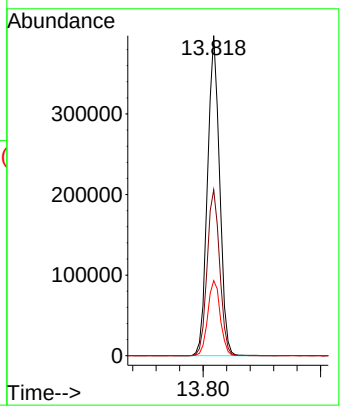


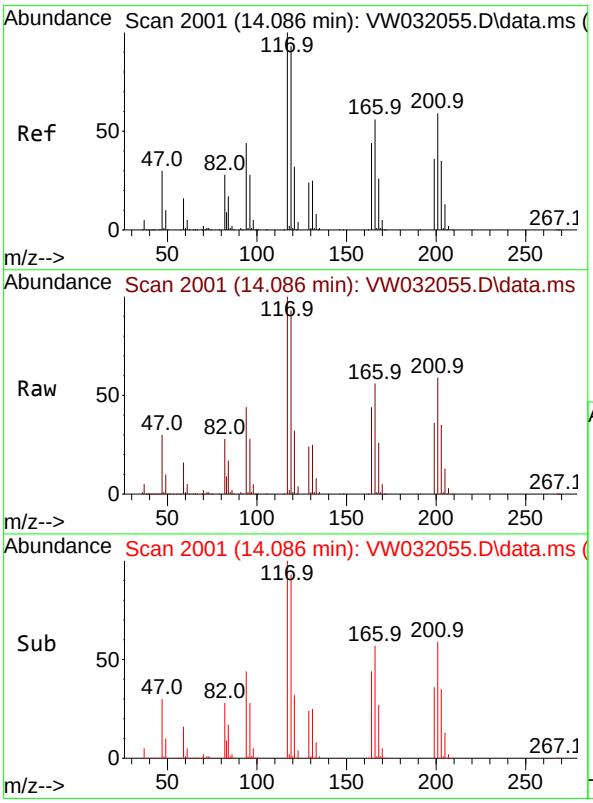
#89
n-Butylbenzene
Concen: 52.756 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

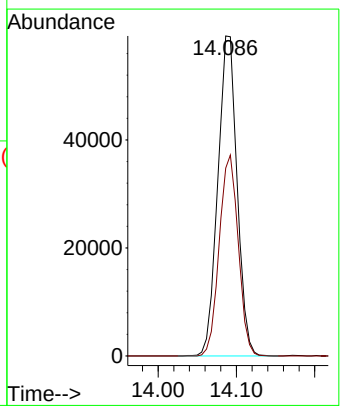


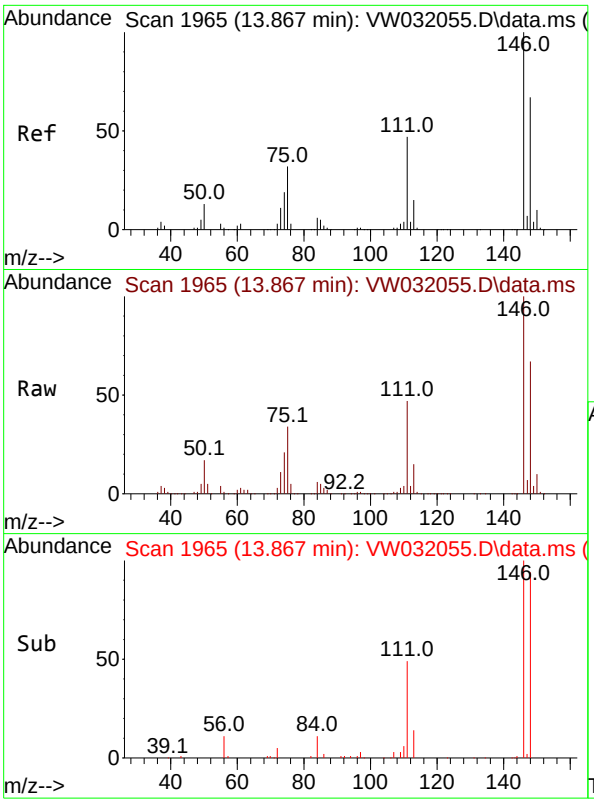


#90
Hexachloroethane
Concen: 49.942 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 101464

Ion	Ratio	Lower	Upper
117	100		
201	61.7	30.9	92.5



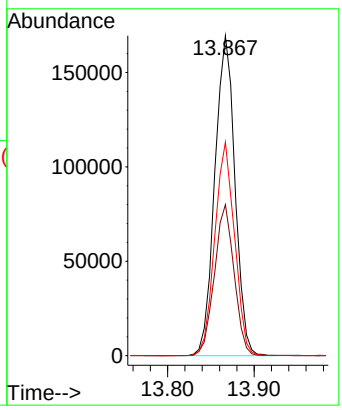


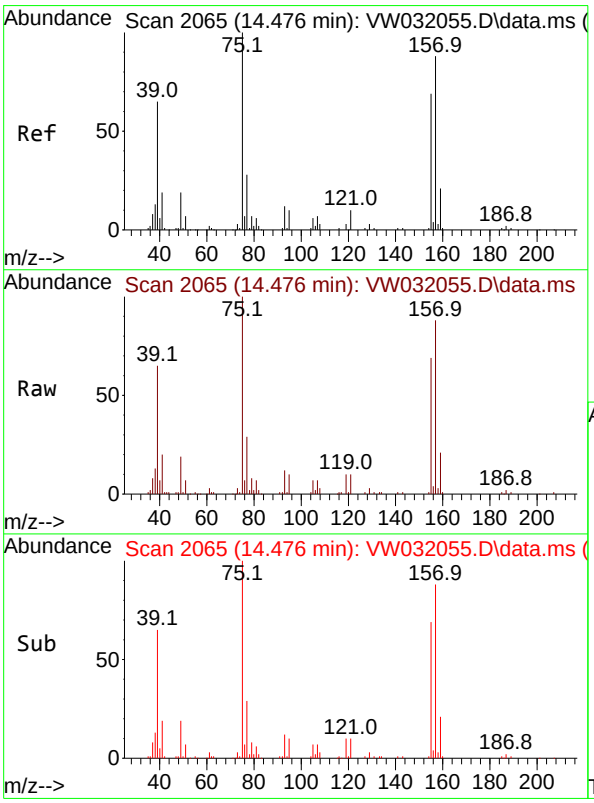
#91
1,2-Dichlorobenzene
Concen: 50.801 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

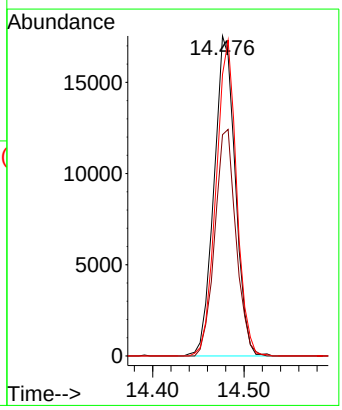


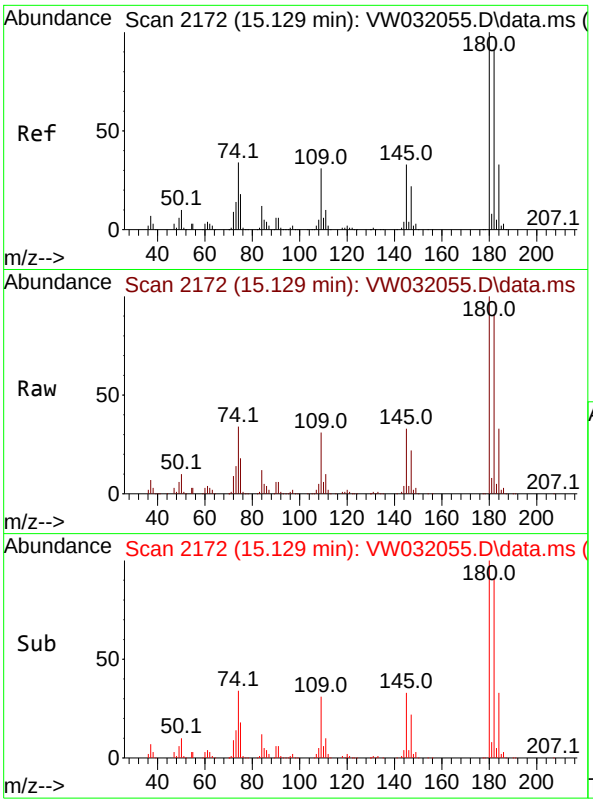


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.857 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



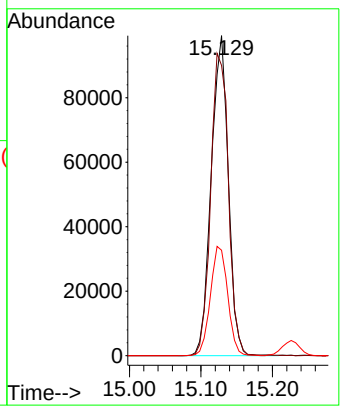


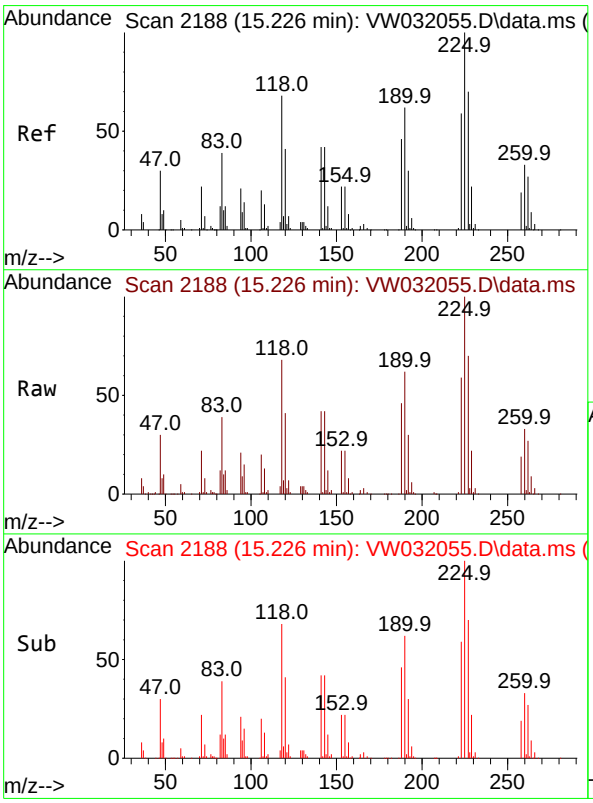
#93
1,2,4-Trichlorobenzene
Concen: 51.132 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

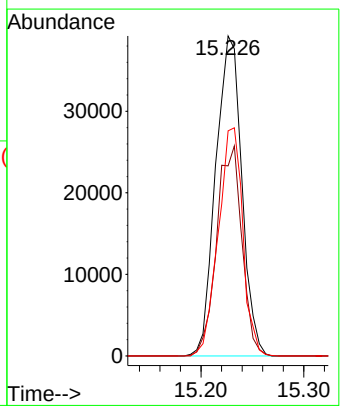


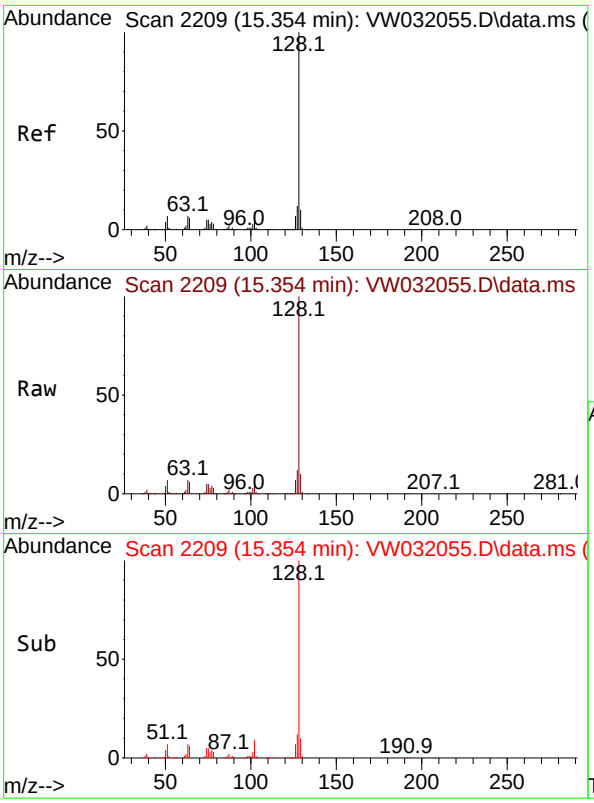


#94
Hexachlorobutadiene
Concen: 47.902 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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



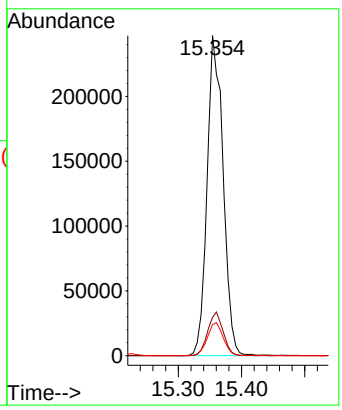


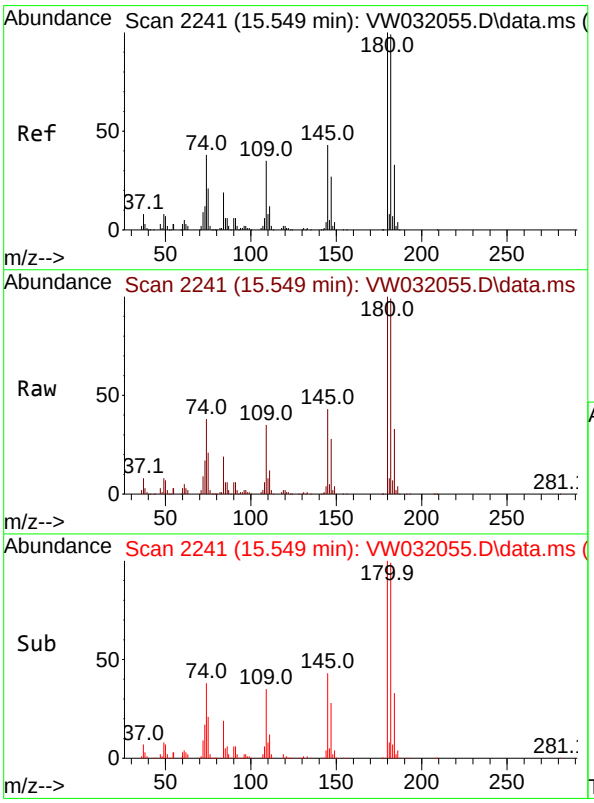
#95
Naphthalene
Concen: 55.099 ug/l
RT: 15.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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

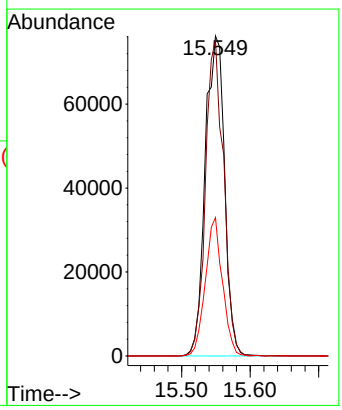




#96
1,2,3-Trichlorobenzene
Concen: 51.022 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

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)

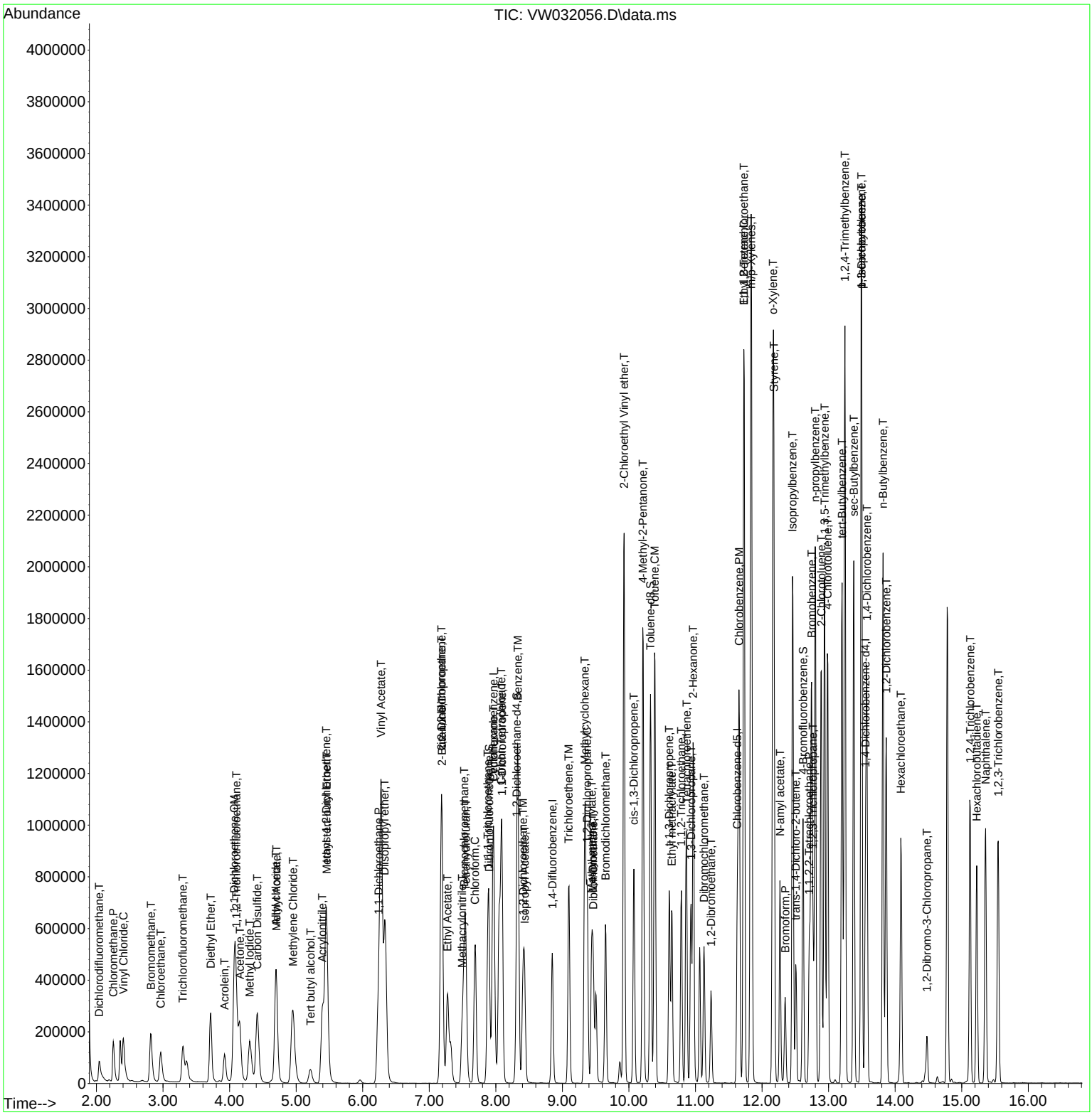
(#) = qualifier out of range (m) = manual integration (+) = signals summed

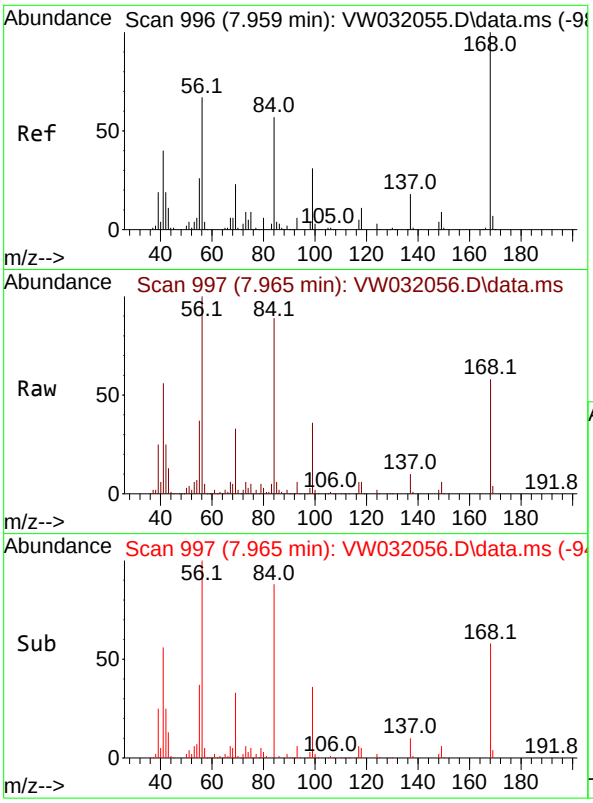
Quantitation Report (Not Reviewed)

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



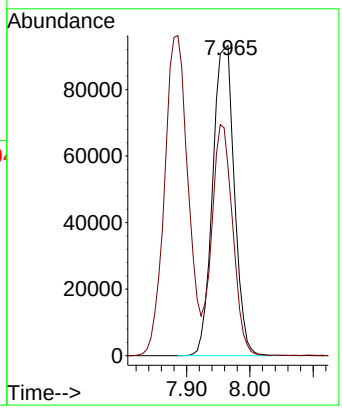


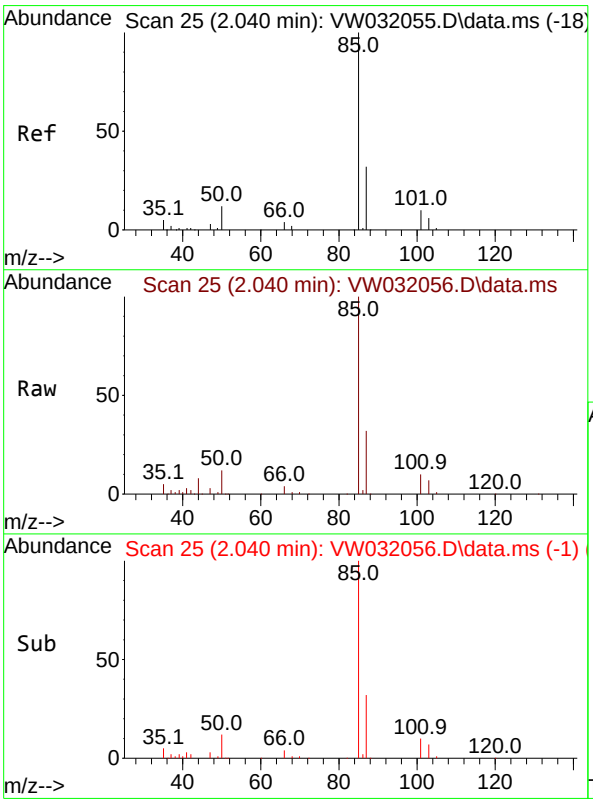
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 221384

Ion	Ratio	Lower	Upper
168	100		
99	60.8	56.0	84.0

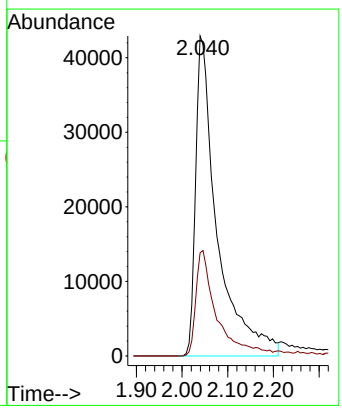


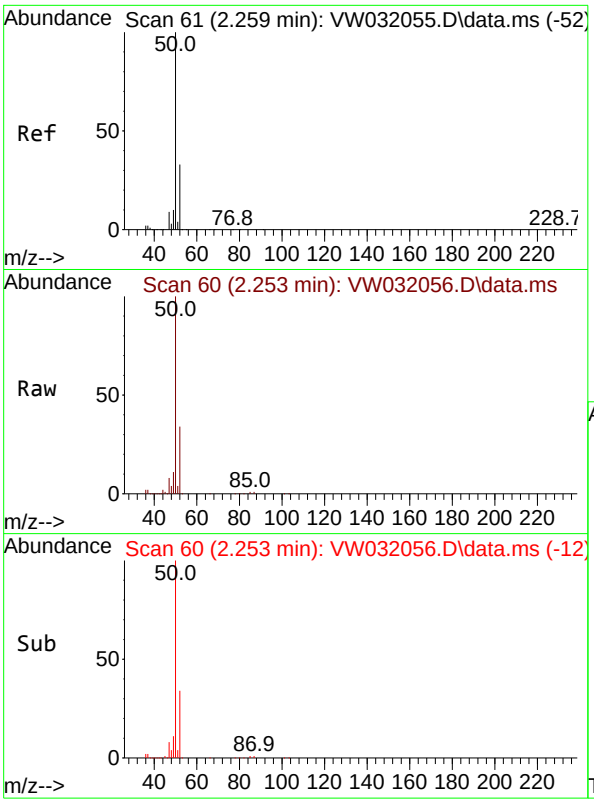


#2
Dichlorodifluoromethane
Concen: 88.627 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 85 Resp: 140330

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6



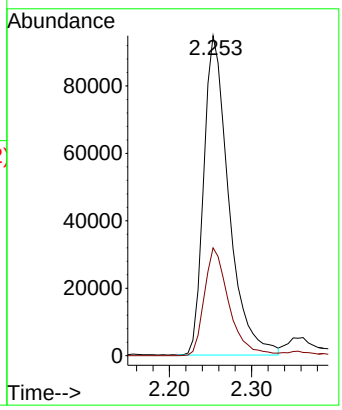


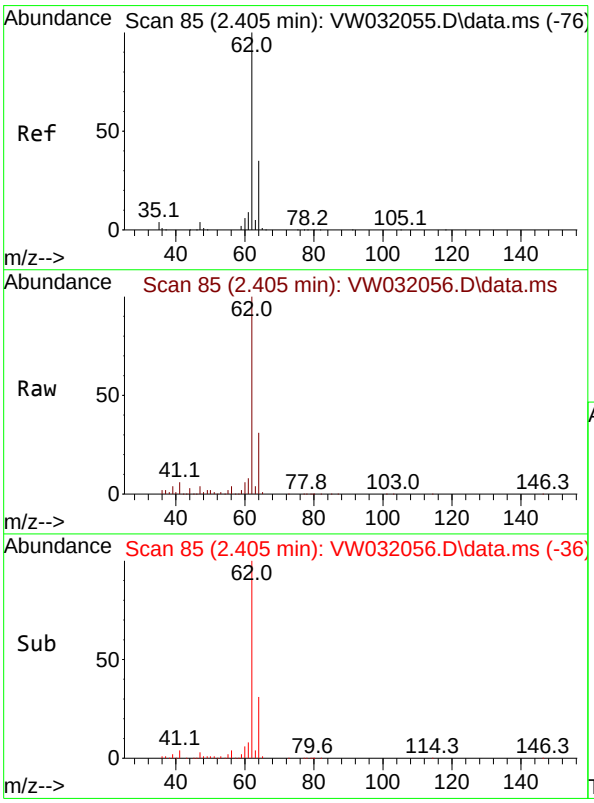
#3
Chloromethane
Concen: 93.894 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 200261

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.6	39.8

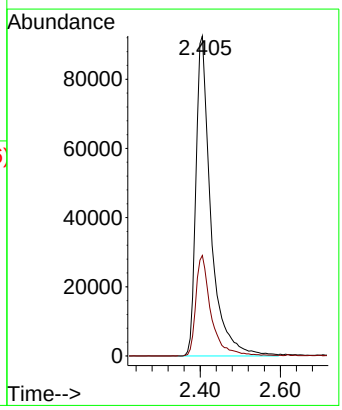


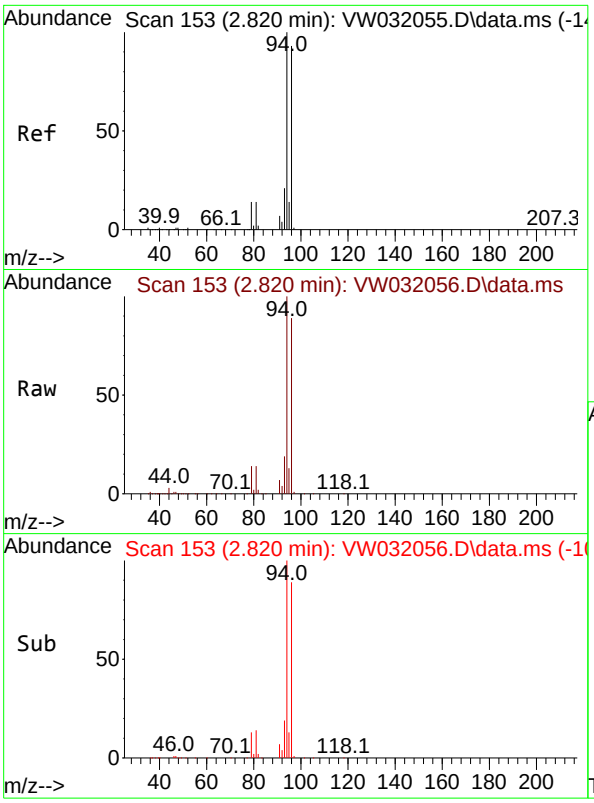


#4
Vinyl Chloride
Concen: 92.654 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 239040

Ion	Ratio	Lower	Upper
62	100		
64	31.3	27.8	41.6



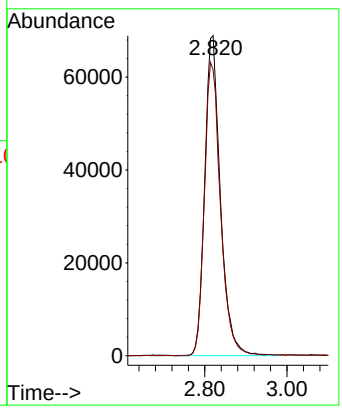


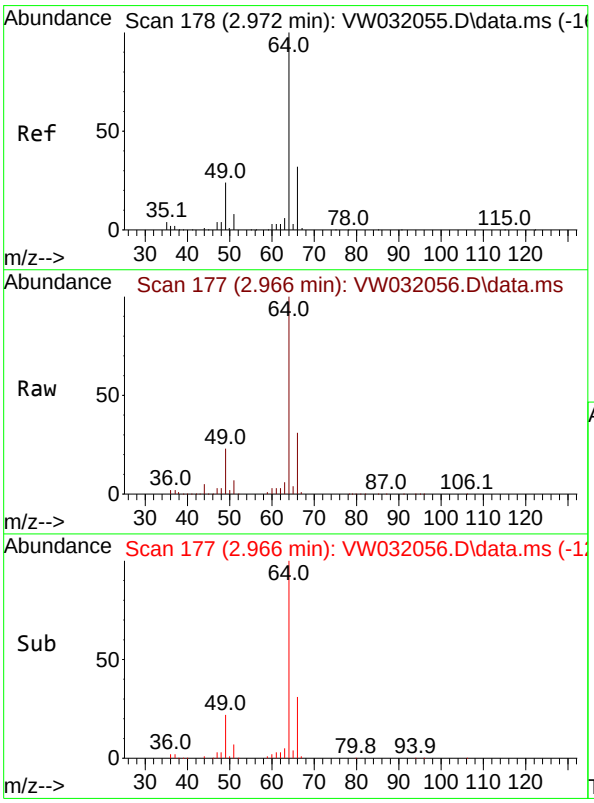
#5
Bromomethane
Concen: 94.386 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 182687

Ion	Ratio	Lower	Upper
94	100		
96	89.4	74.7	112.1

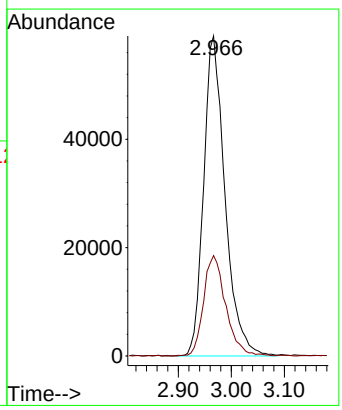


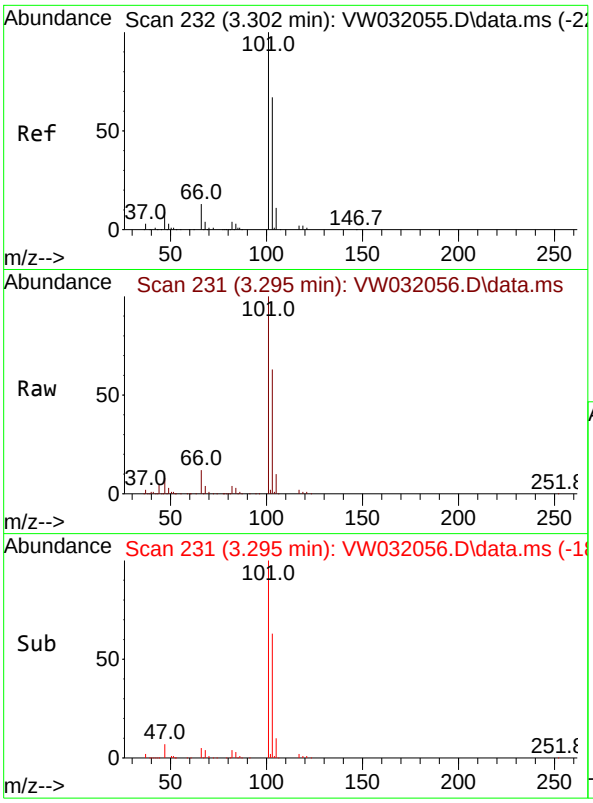


#6
Chloroethane
Concen: 96.628 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 64 Resp: 164961

Ion	Ratio	Lower	Upper
64	100		
66	31.1	26.0	39.0



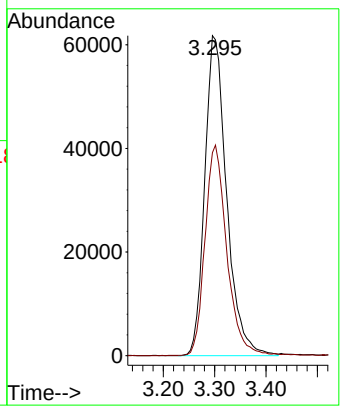


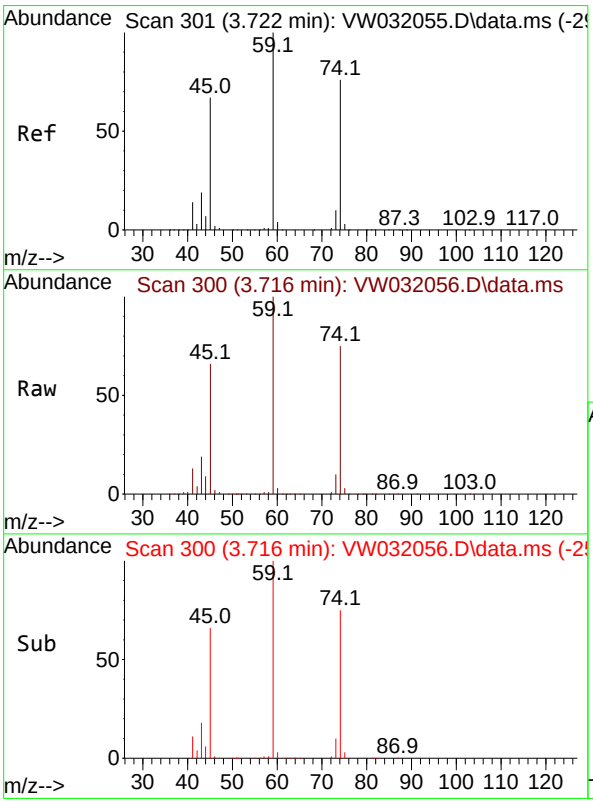
#7
Trichlorofluoromethane
Concen: 88.382 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 182663

Ion	Ratio	Lower	Upper
101	100		
103	63.3	53.4	80.0

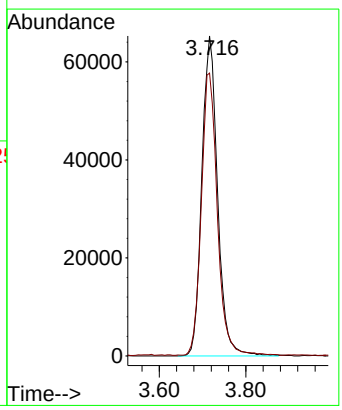


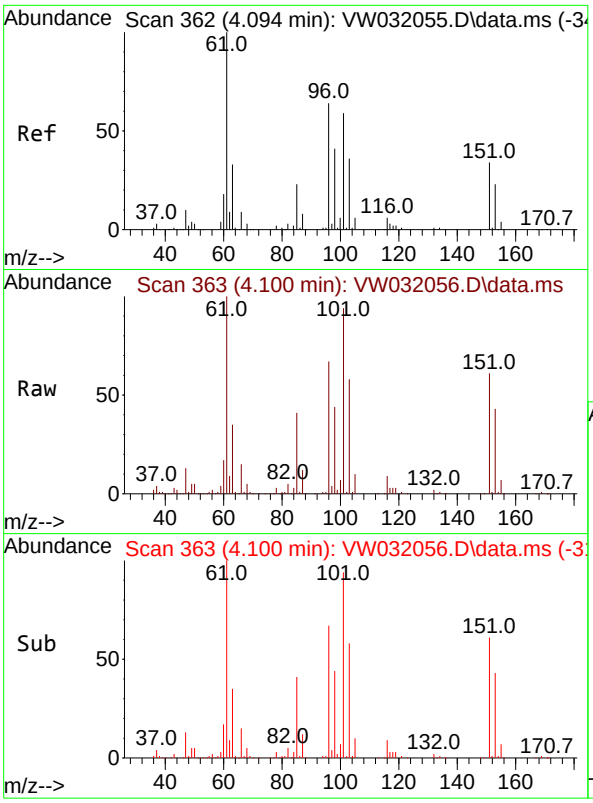


#8
Diethyl Ether
Concen: 97.227 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 74 Resp: 164632

Ion	Ratio	Lower	Upper
74	100		
45	90.1	45.4	136.2



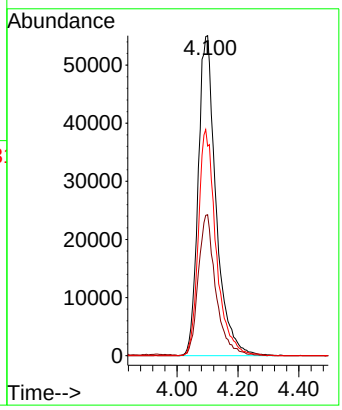


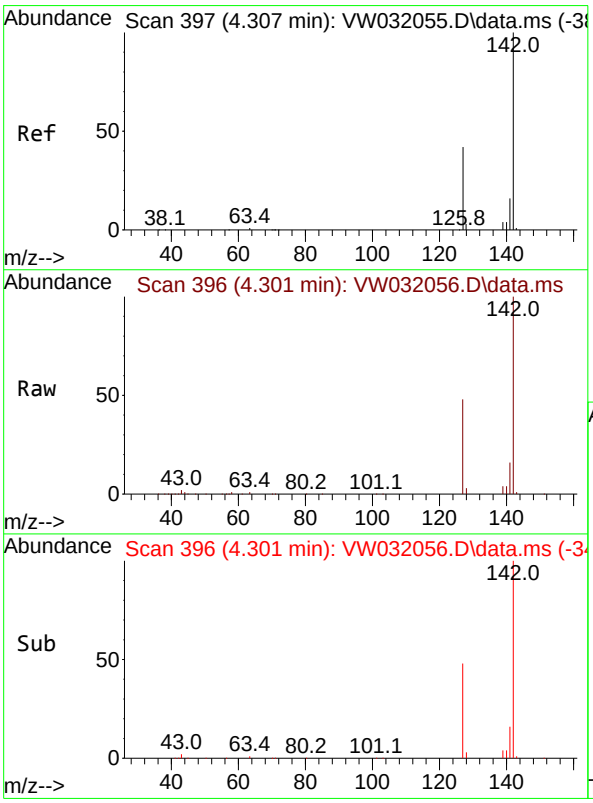
#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.988 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

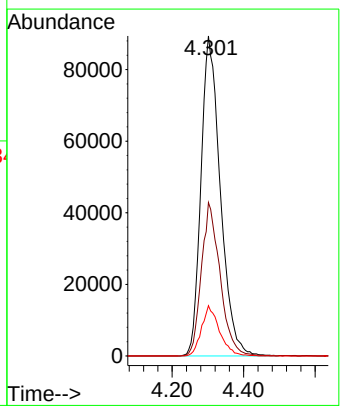


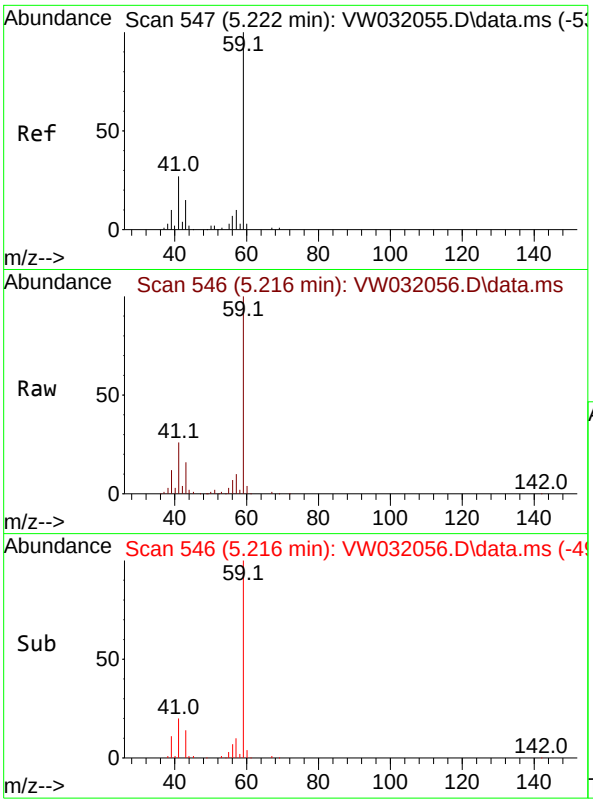


#10
Methyl Iodide
Concen: 97.237 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



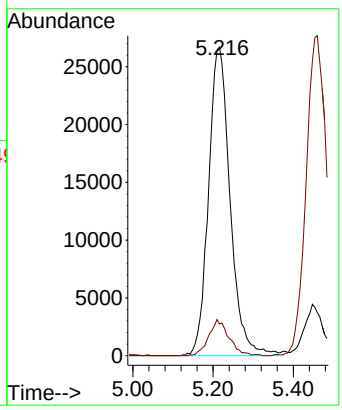


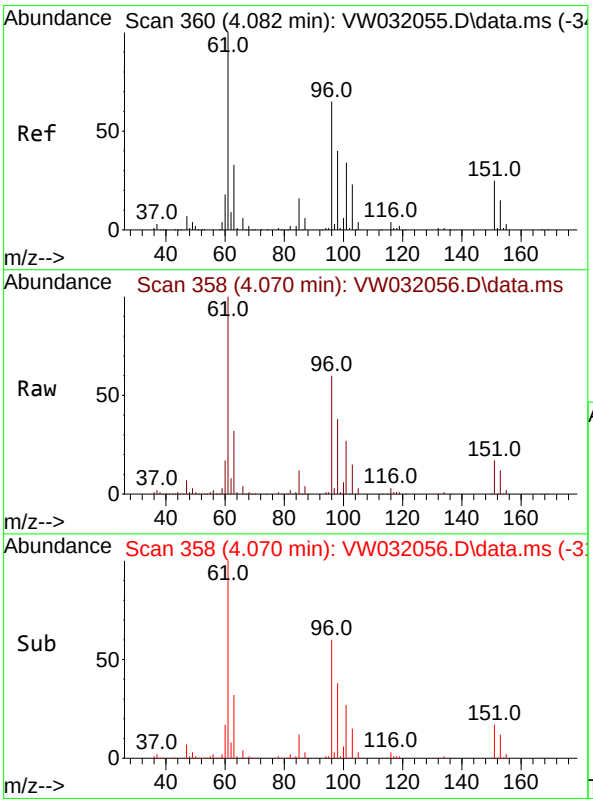
#11
Tert butyl alcohol
Concen: 480.735 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 99671

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.7	13.1

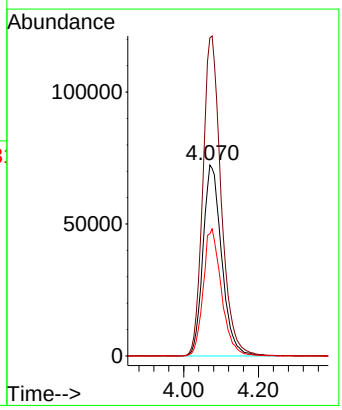


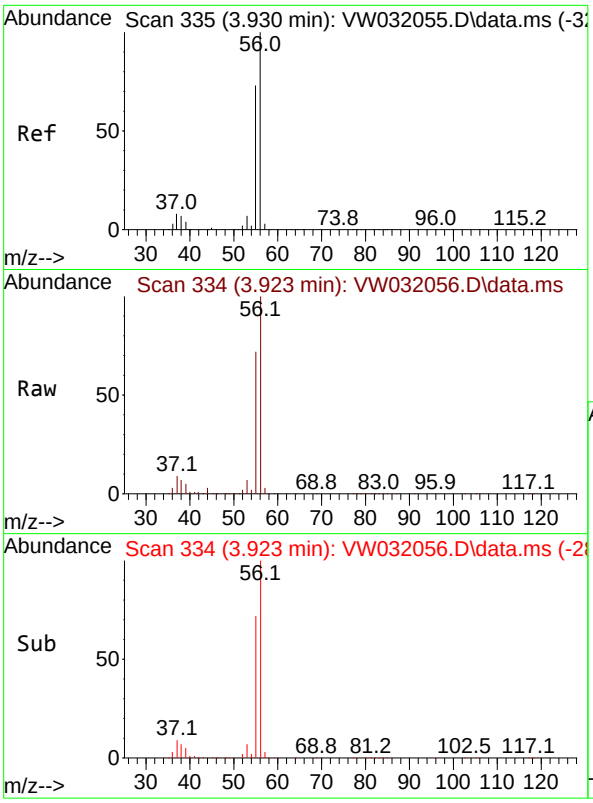


#12
1,1-Dichloroethene
Concen: 93.615 ug/l
RT: 4.070 min Scan# 358
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



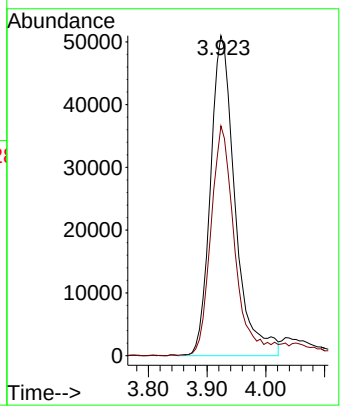


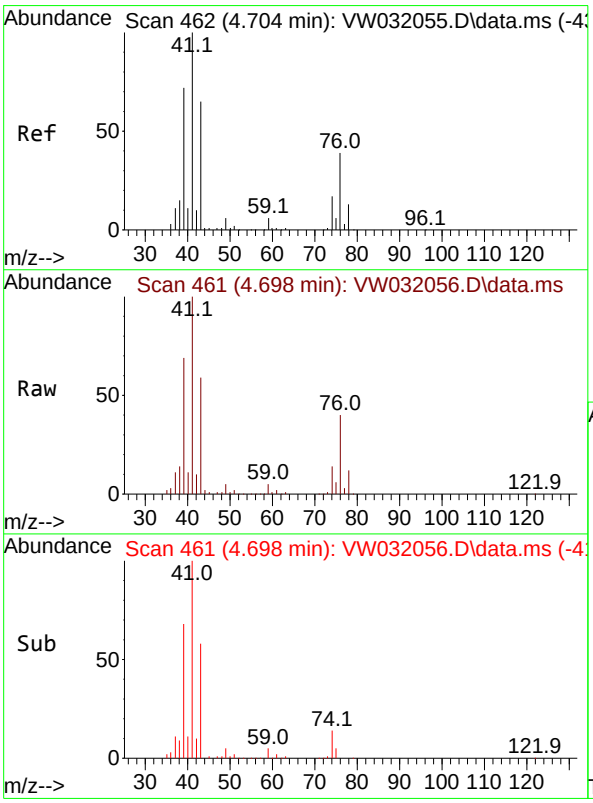
#13
Acrolein
Concen: 449.230 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 148403

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.4	83.2

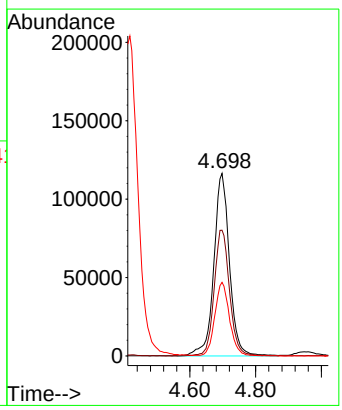


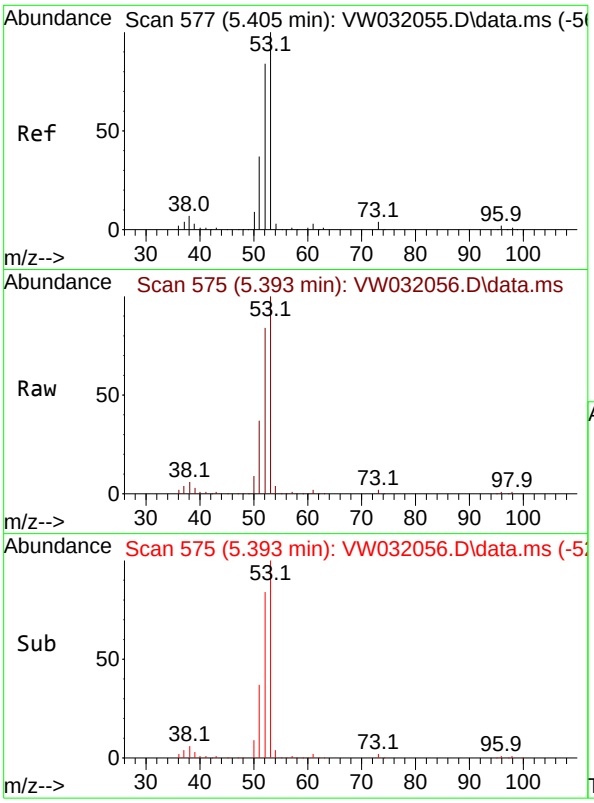


#14
Allyl chloride
Concen: 98.543 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



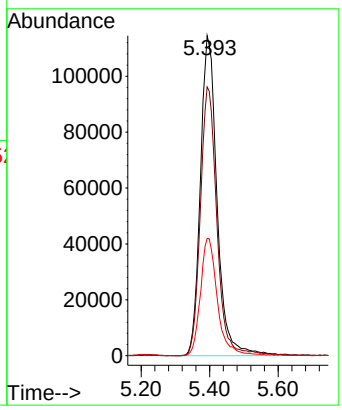


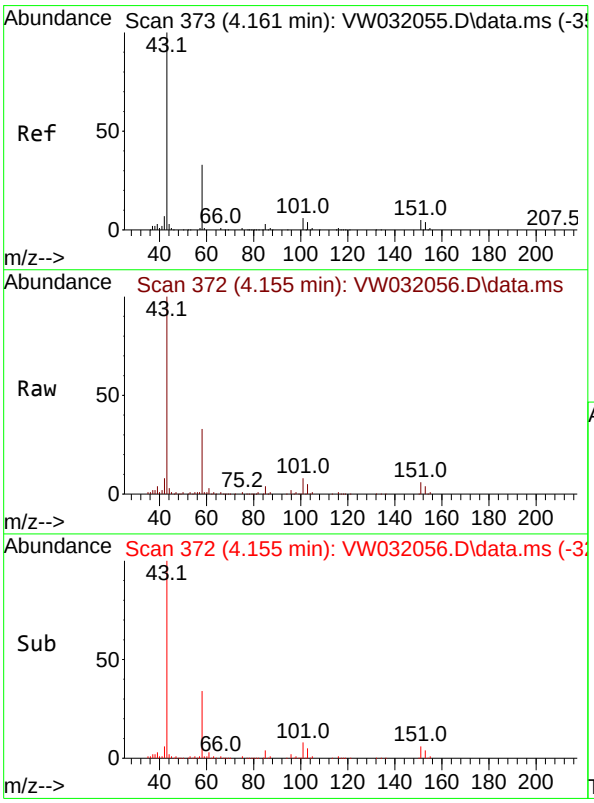
#15
Acrylonitrile
Concen: 481.445 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

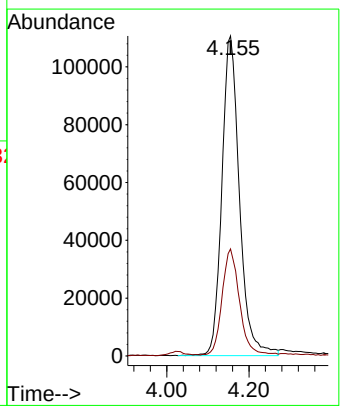


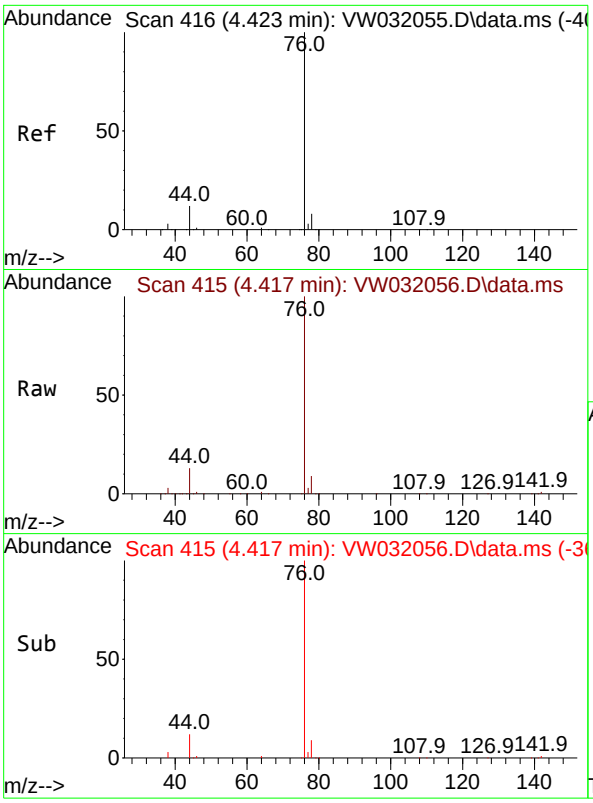


#16
Acetone
Concen: 443.358 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 328664

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8



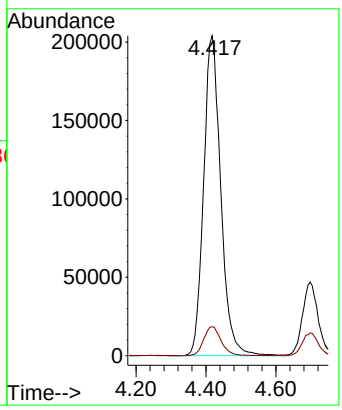


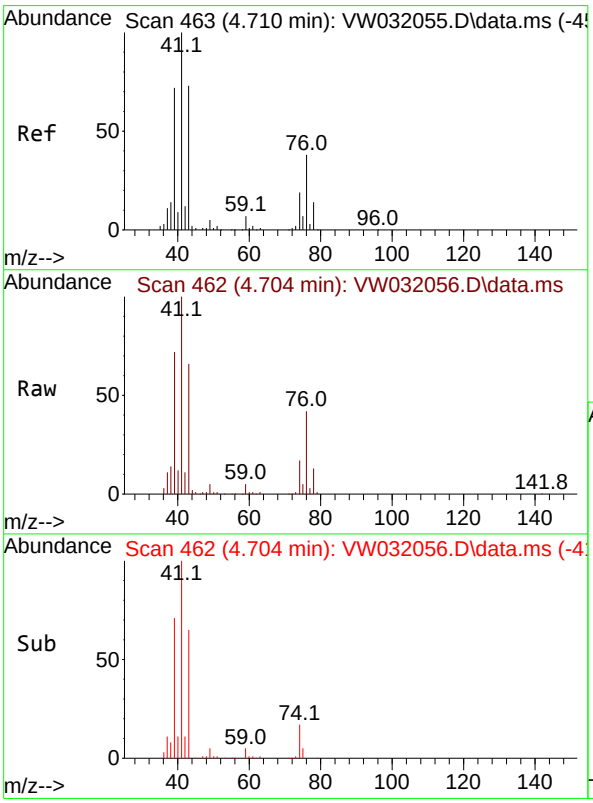
#17
Carbon Disulfide
Concen: 96.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 693616

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.4	9.6

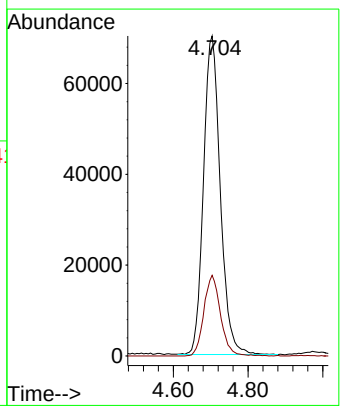


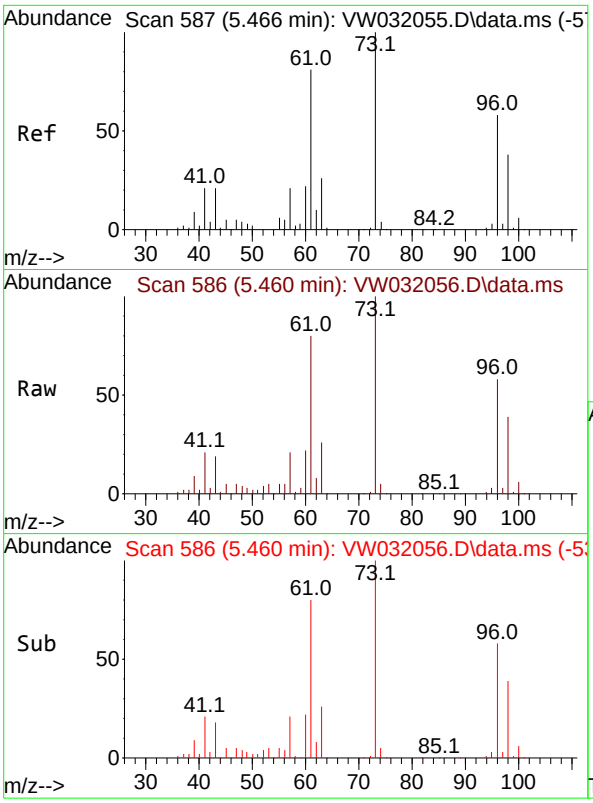


#18
Methyl Acetate
Concen: 93.230 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 218695

Ion	Ratio	Lower	Upper
43	100		
74	25.0	20.6	31.0



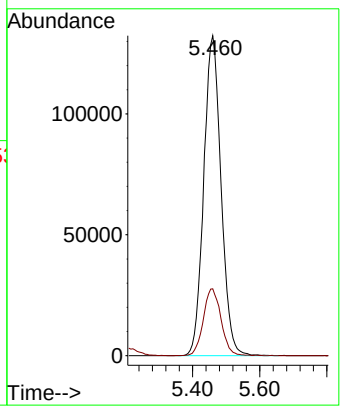


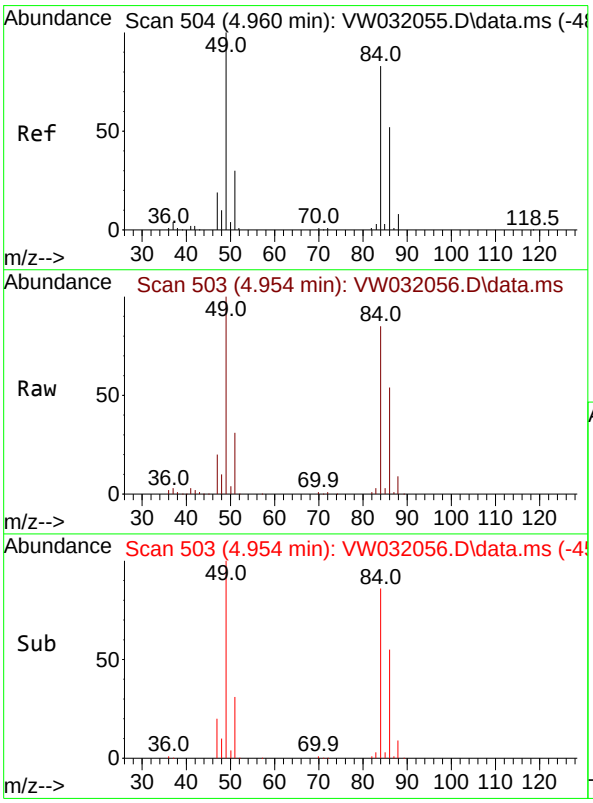
#19
Methyl tert-butyl Ether
Concen: 100.184 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 473924

Ion	Ratio	Lower	Upper
73	100		
57	20.9	17.2	25.8

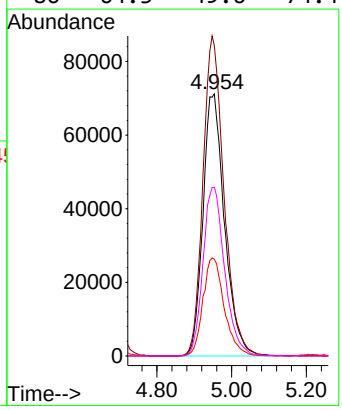


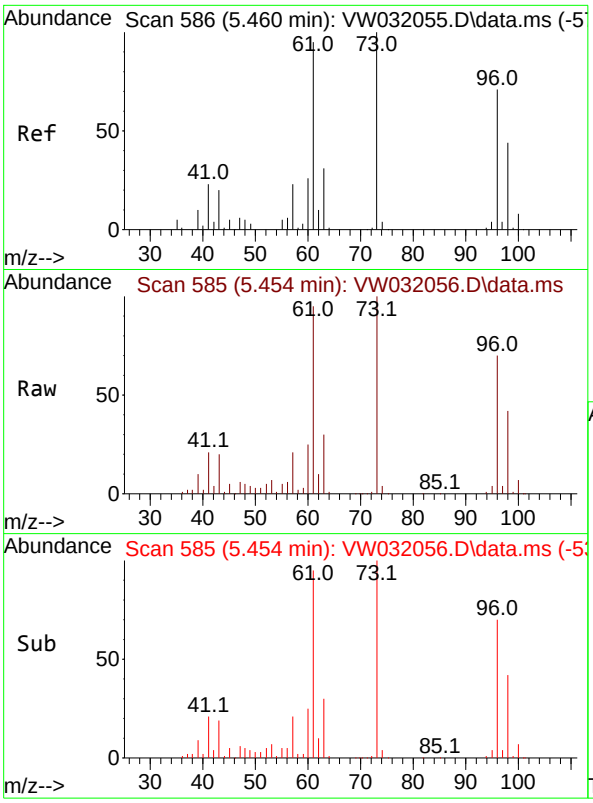


#20
Methylene Chloride
Concen: 83.165 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



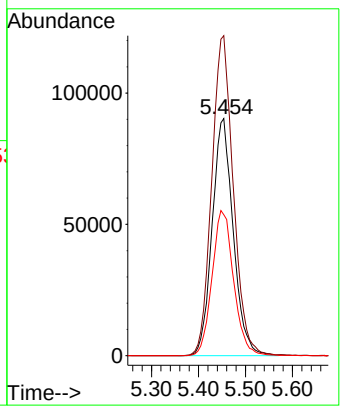


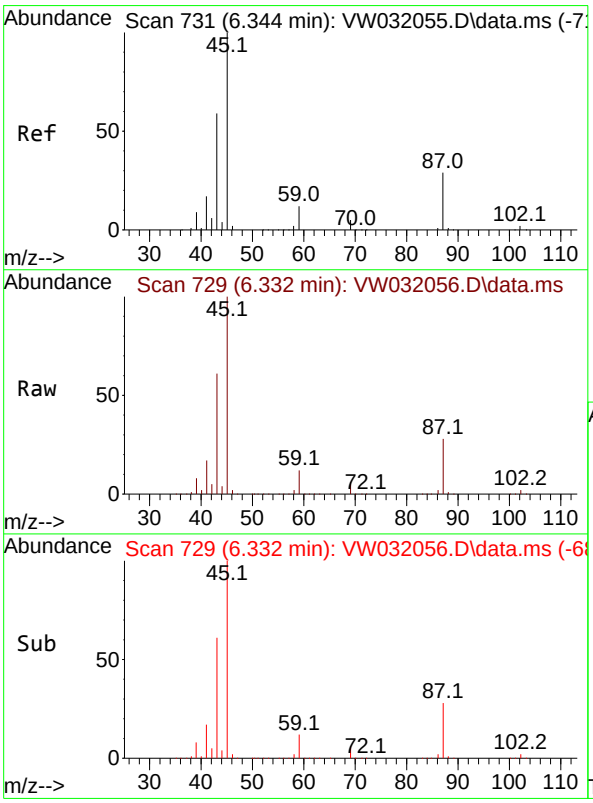
#21
trans-1,2-Dichloroethene
Concen: 98.787 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

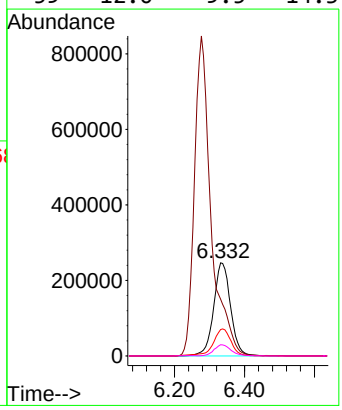


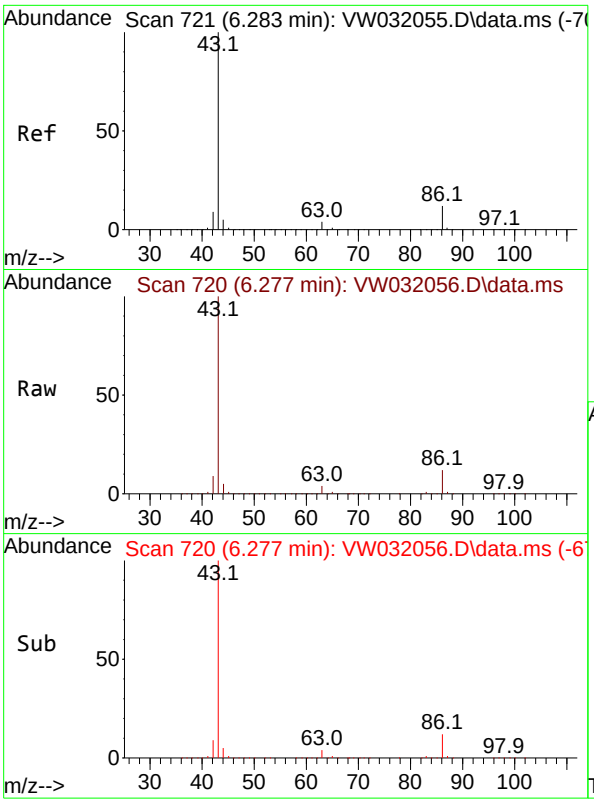


#22
Diisopropyl ether
Concen: 100.722 ug/l
RT: 6.332 min Scan# 729
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



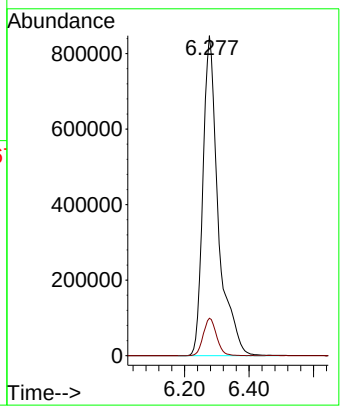


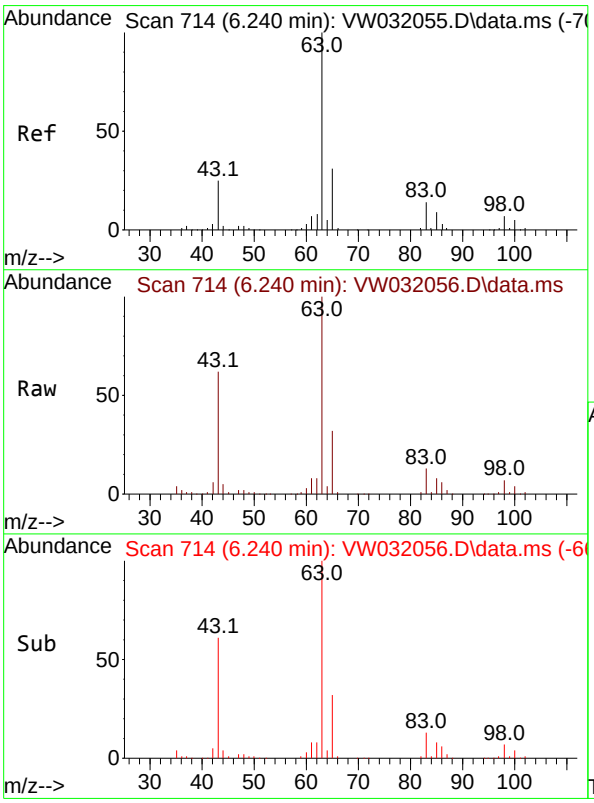
#23
Vinyl Acetate
Concen: 518.312 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2803250

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

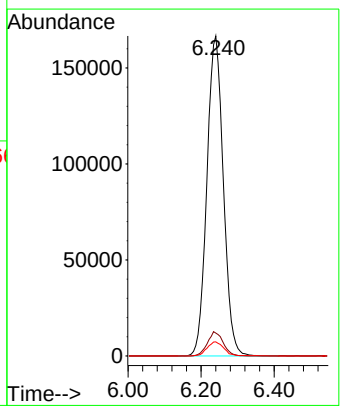


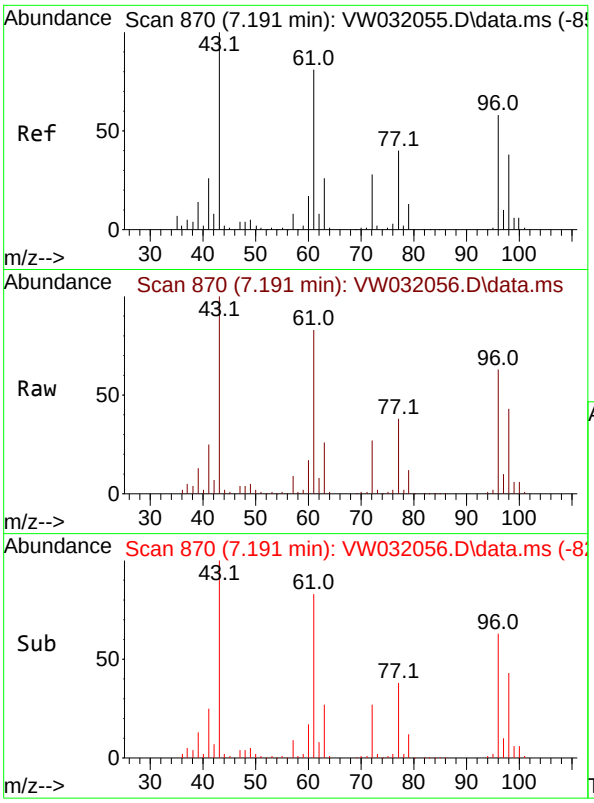


#24
1,1-Dichloroethane
Concen: 98.678 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



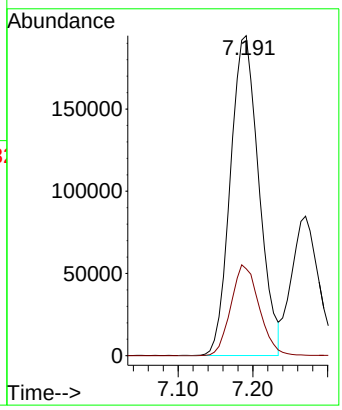


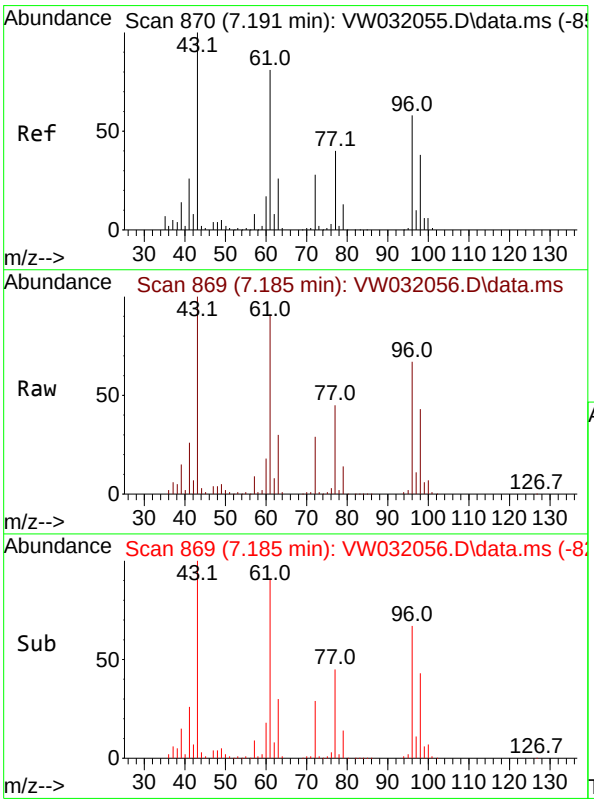
#25
2-Butanone
Concen: 489.508 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 515739

Ion	Ratio	Lower	Upper
43	100		
72	27.1	22.3	33.5

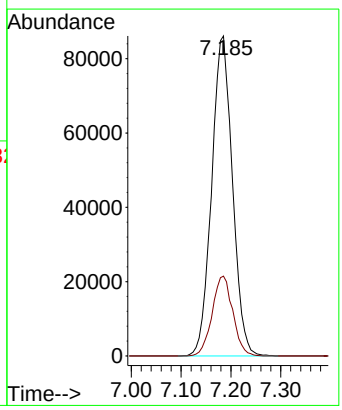


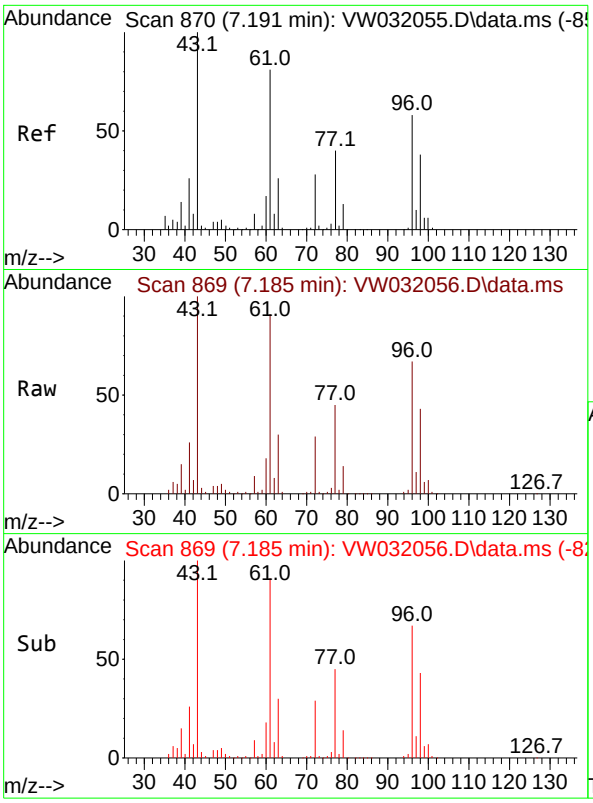


#26
2,2-Dichloropropane
Concen: 94.405 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 77 Resp: 249271

Ion	Ratio	Lower	Upper
77	100		
97	24.8	12.3	36.9



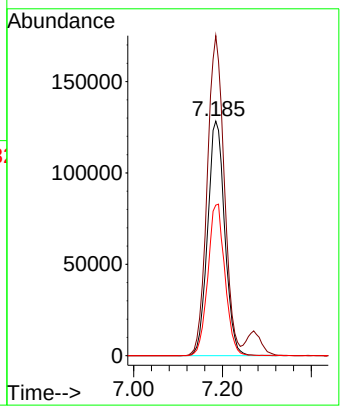


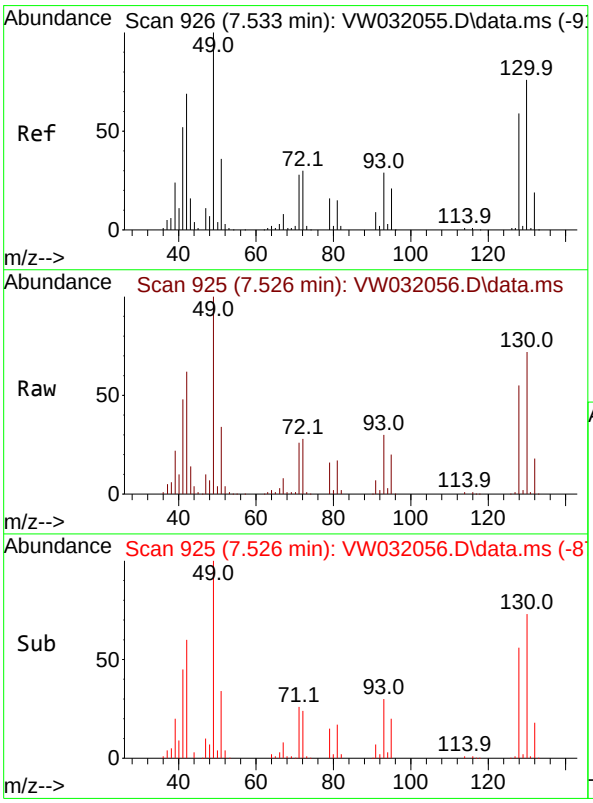
#27
cis-1,2-Dichloroethene
Concen: 103.016 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

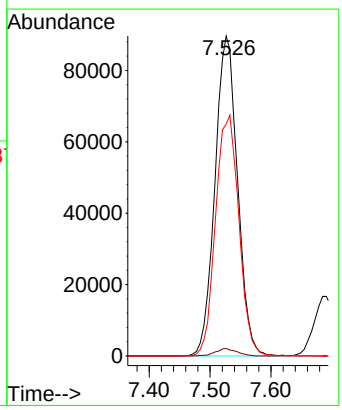


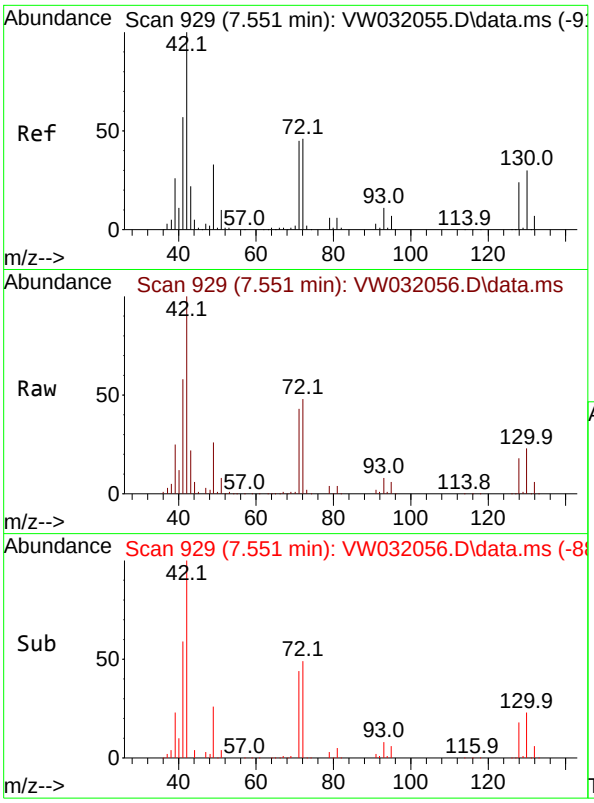


#28
Bromochloromethane
Concen: 96.333 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



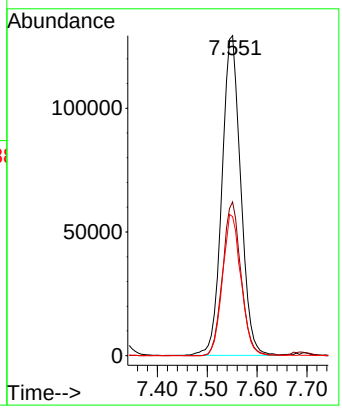


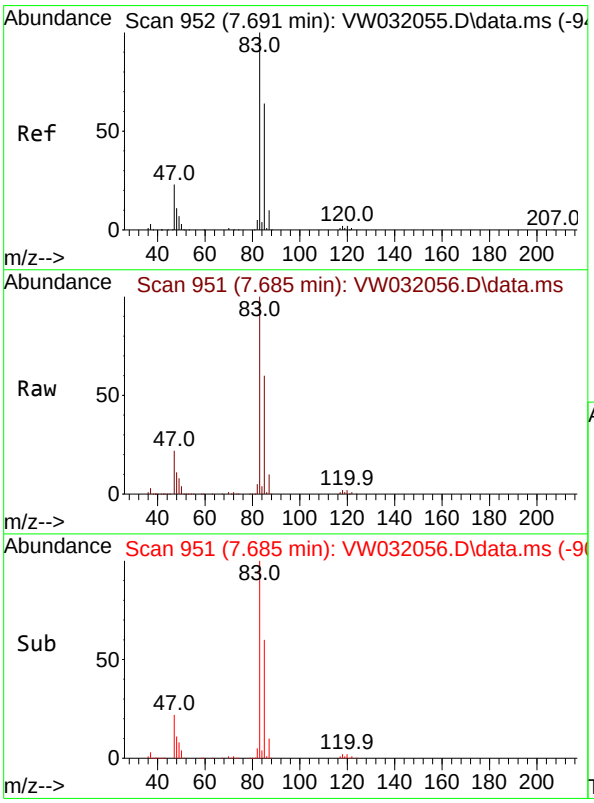
#29
Tetrahydrofuran
Concen: 487.284 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

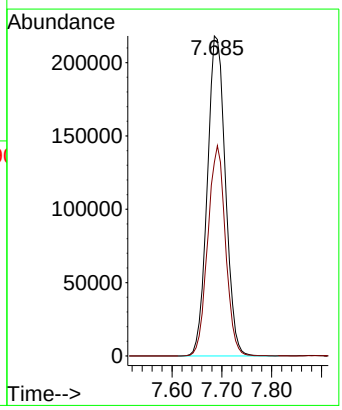


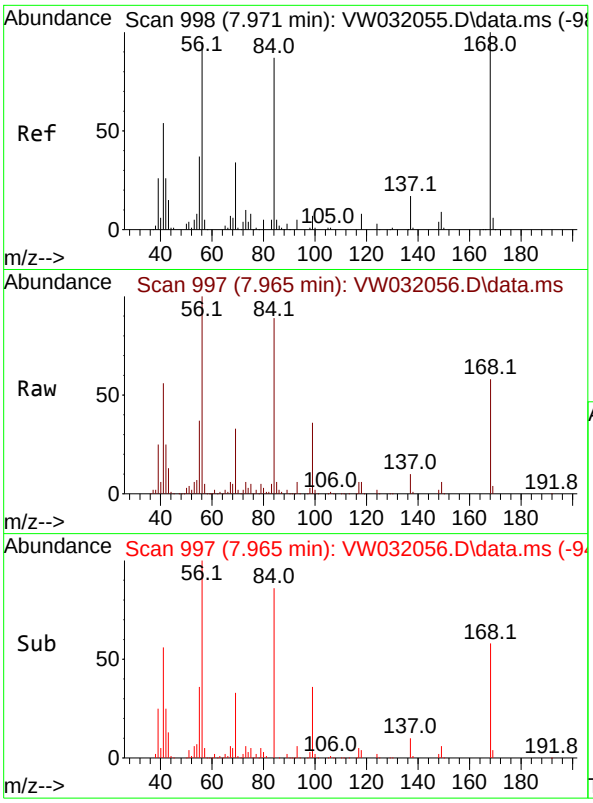


#30
Chloroform
Concen: 98.613 ug/l
RT: 7.685 min Scan# 951
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 550232

Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.0	76.4



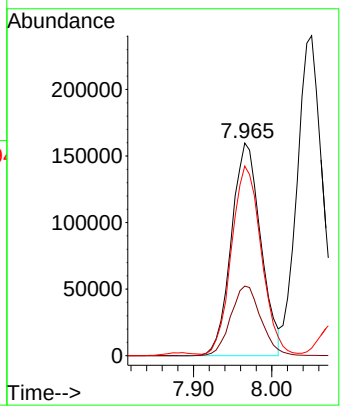


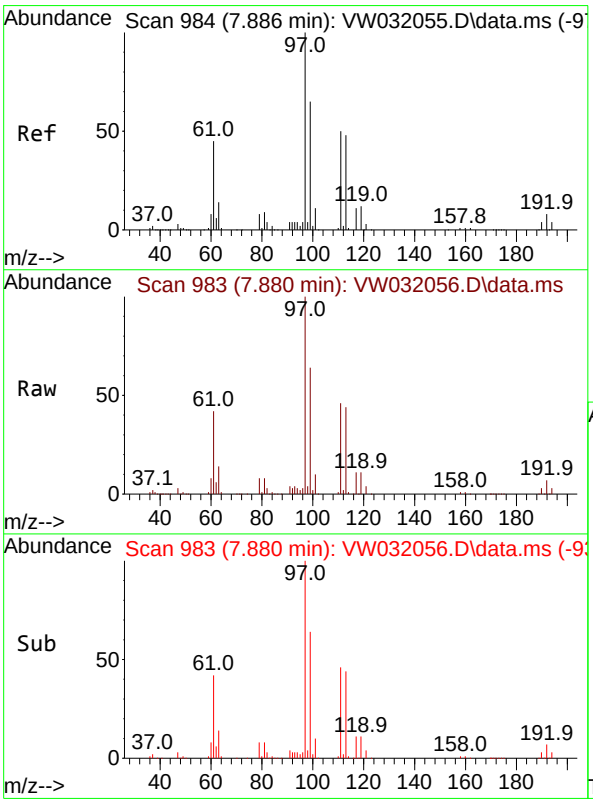
#31
Cyclohexane
Concen: 91.292 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

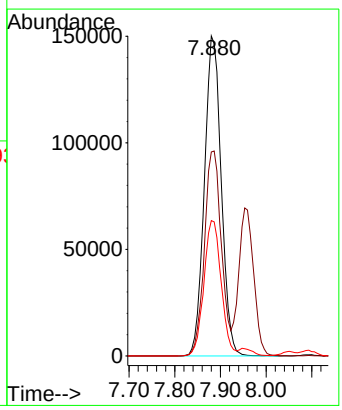


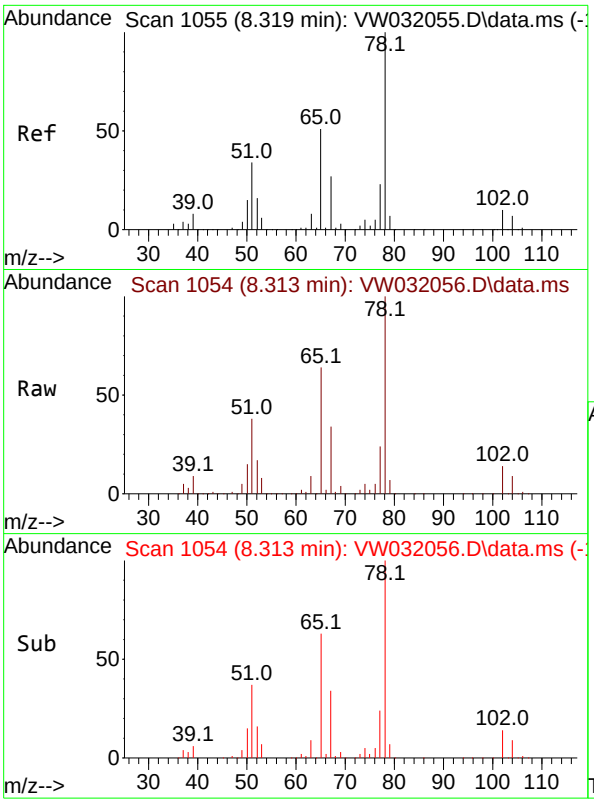


#32
1,1,1-Trichloroethane
Concen: 94.913 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



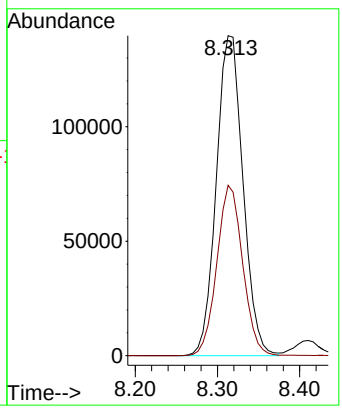


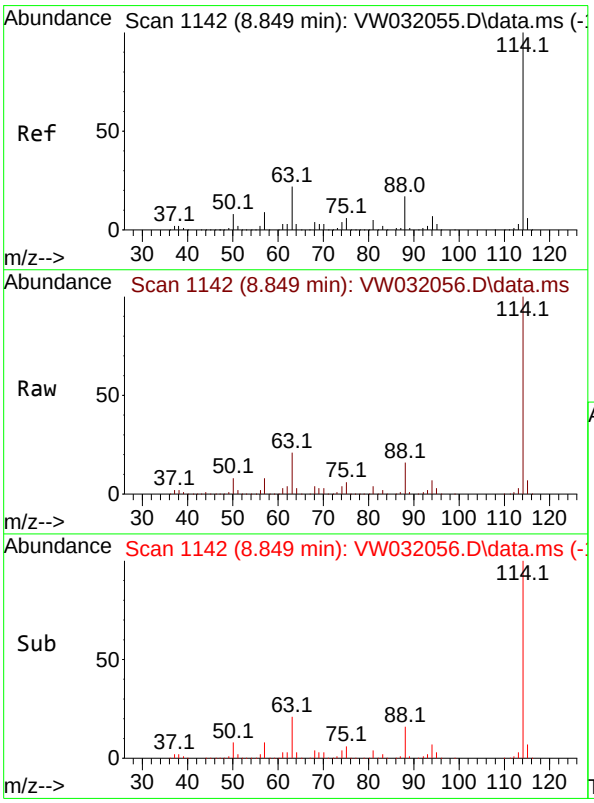
#33
1,2-Dichloroethane-d4
Concen: 98.509 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 315411

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.4

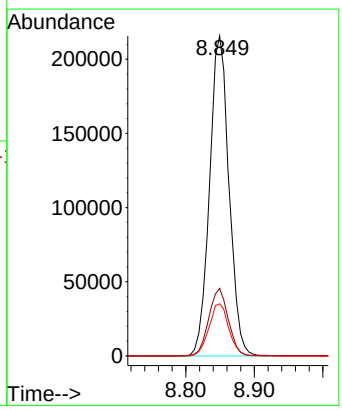


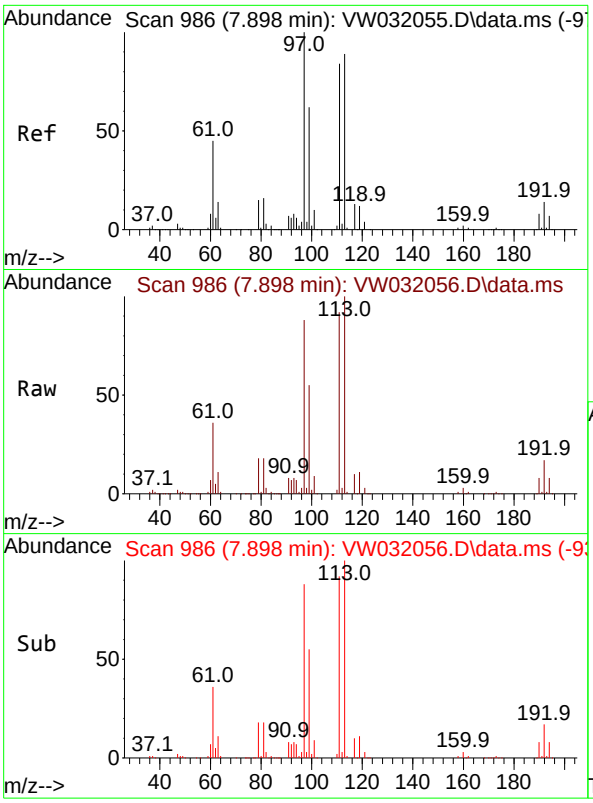


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



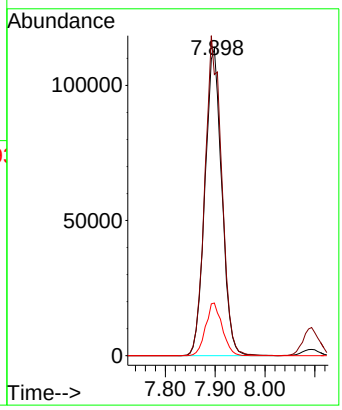


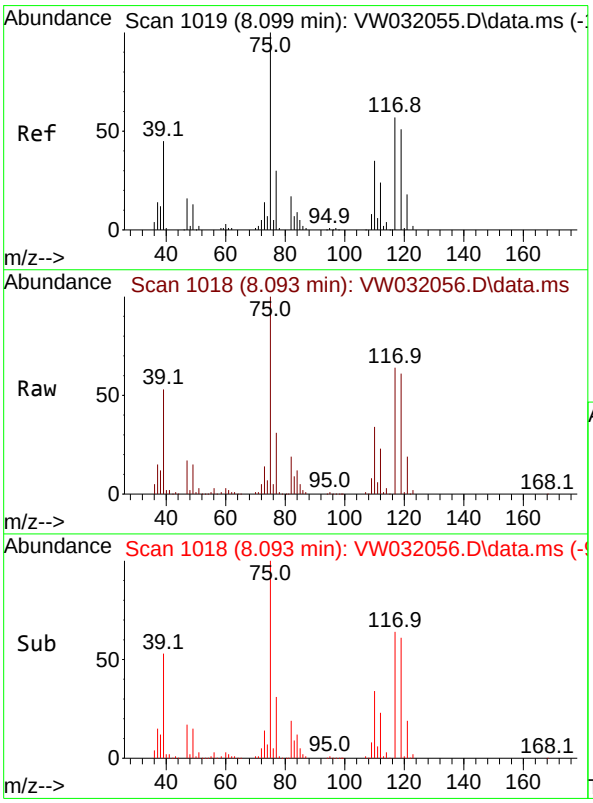
#35
Dibromofluoromethane
Concen: 96.945 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

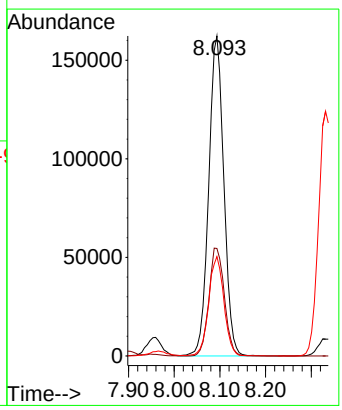


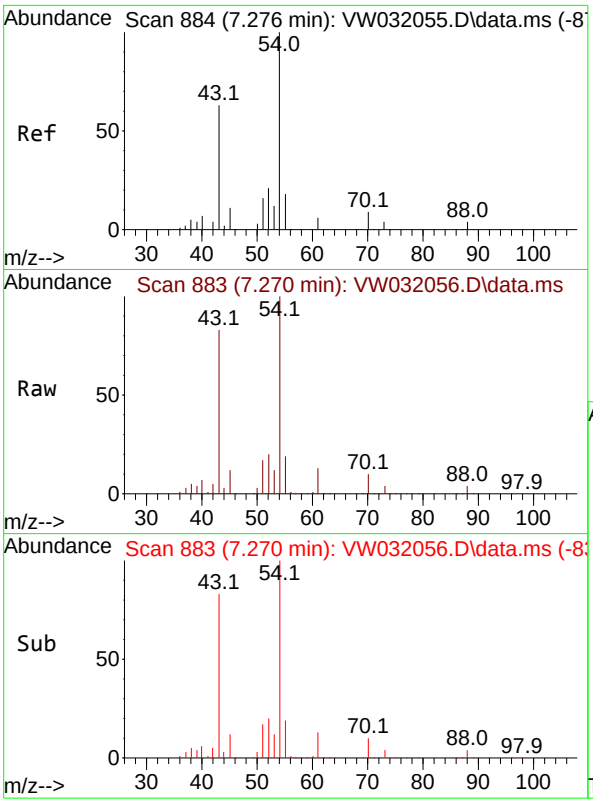


#36
1,1-Dichloropropene
Concen: 96.444 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



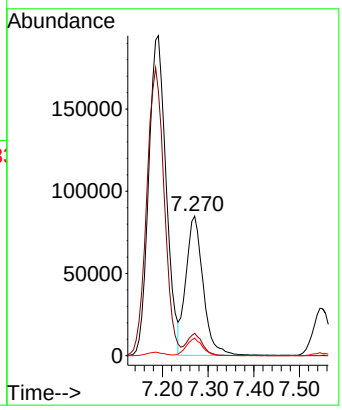


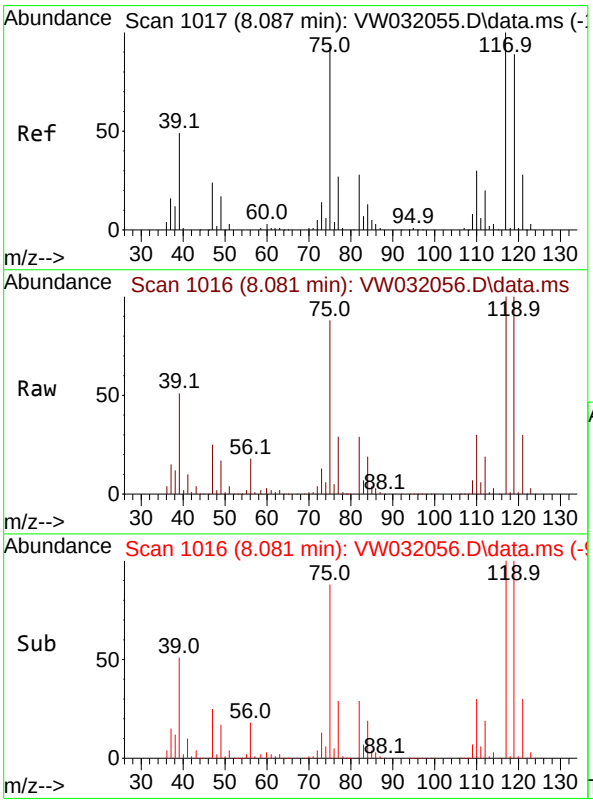
#37
Ethyl Acetate
Concen: 97.375 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

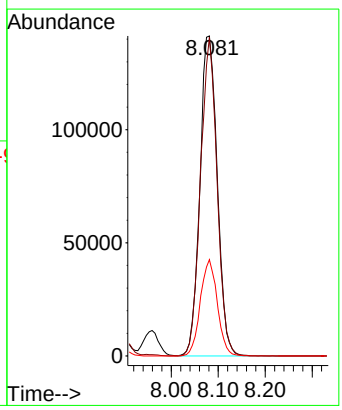


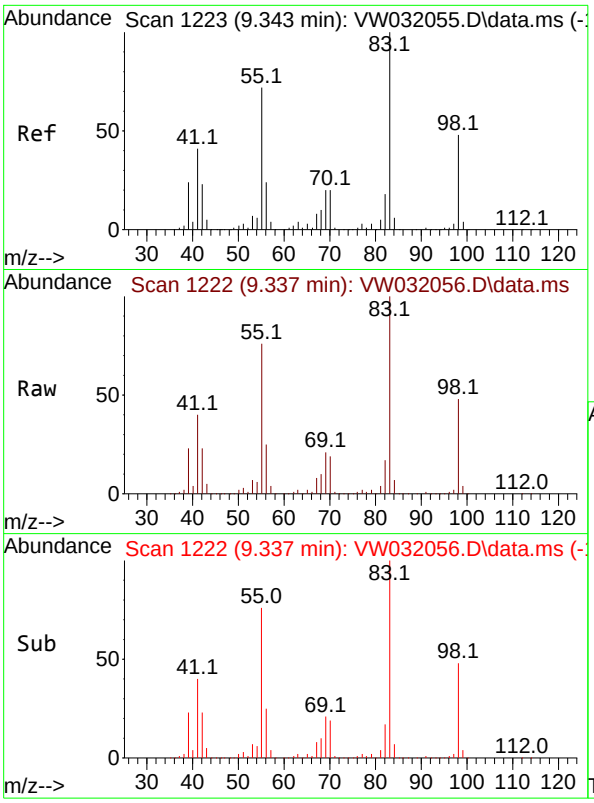


#38
Carbon Tetrachloride
Concen: 97.035 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



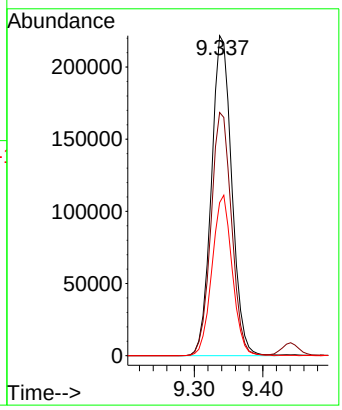


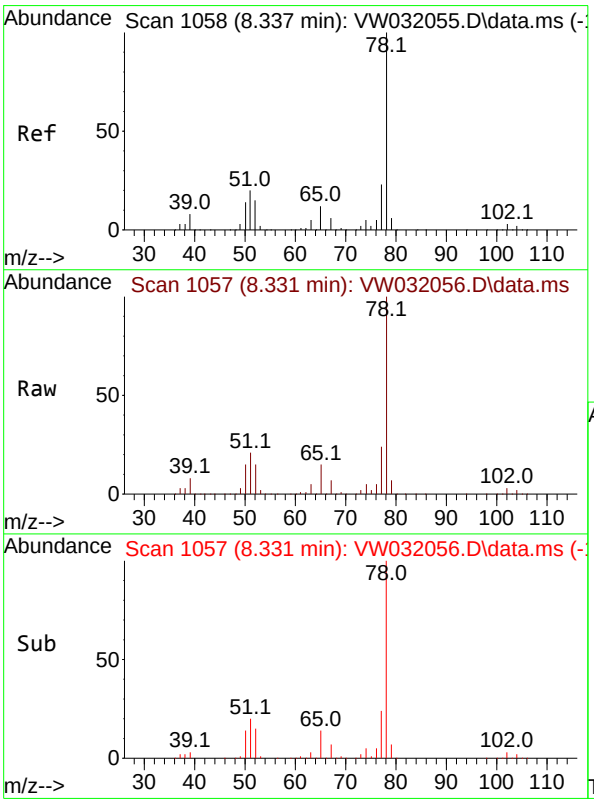
#39
Methylcyclohexane
Concen: 97.342 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

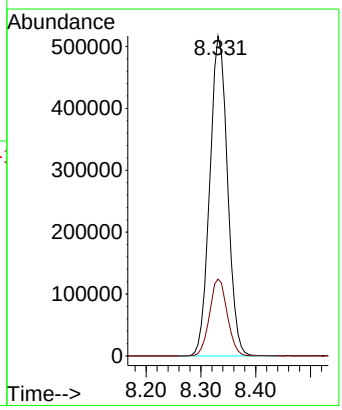


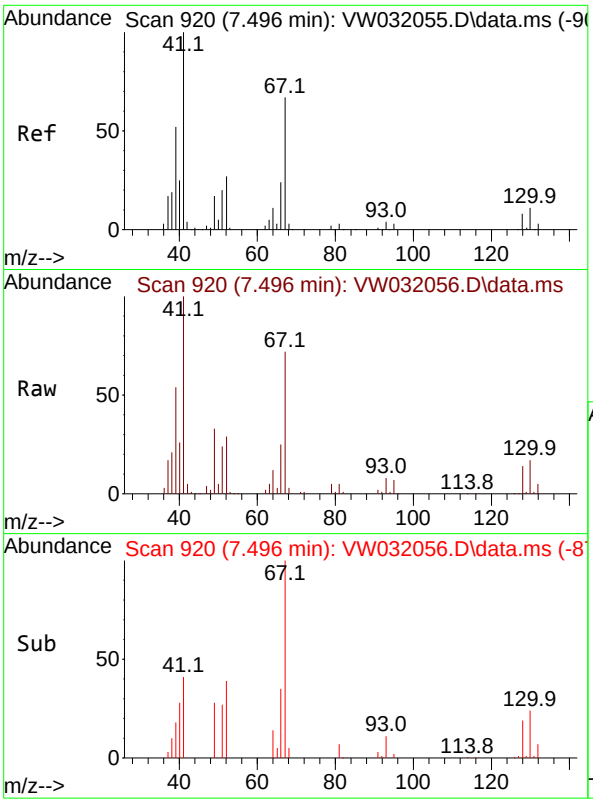


#40
Benzene
Concen: 96.444 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 78 Resp: 1160107

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.4	27.6



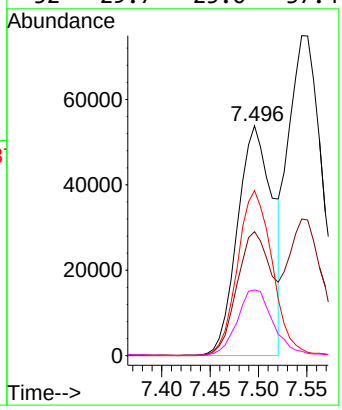


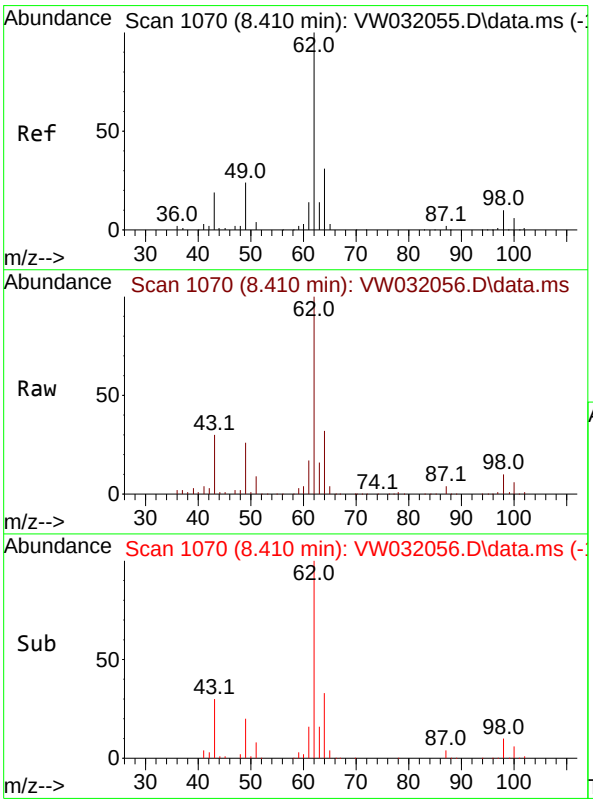
#41
Methacrylonitrile
Concen: 105.048 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

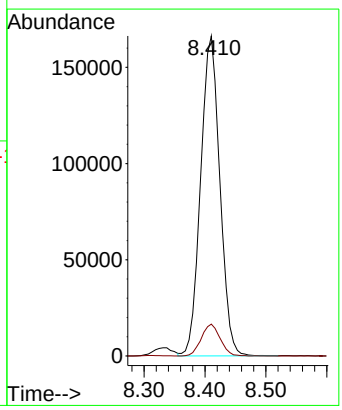


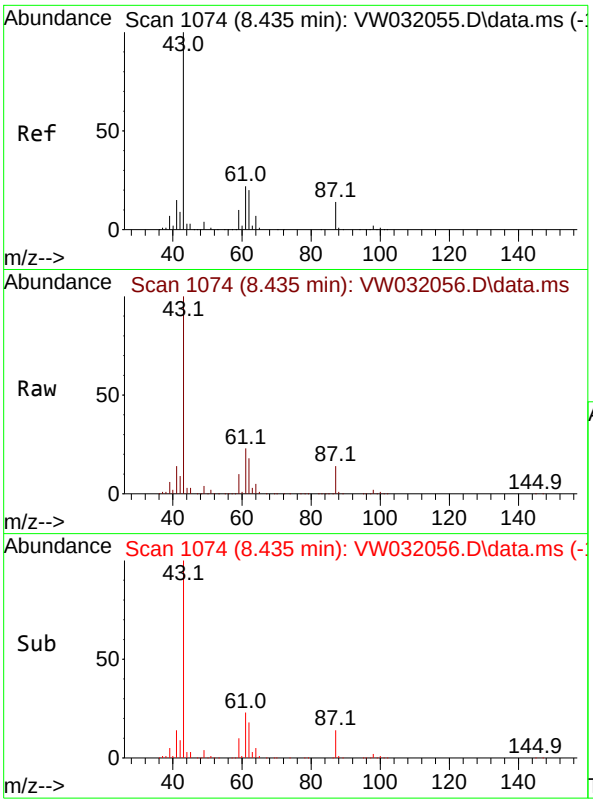


#42
1,2-Dichloroethane
Concen: 94.743 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 364674

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8



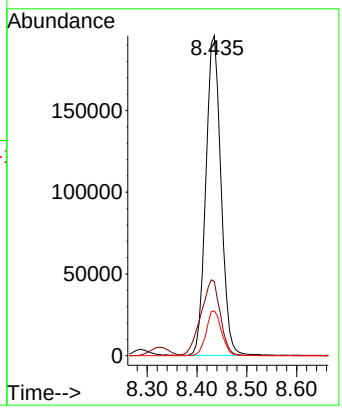


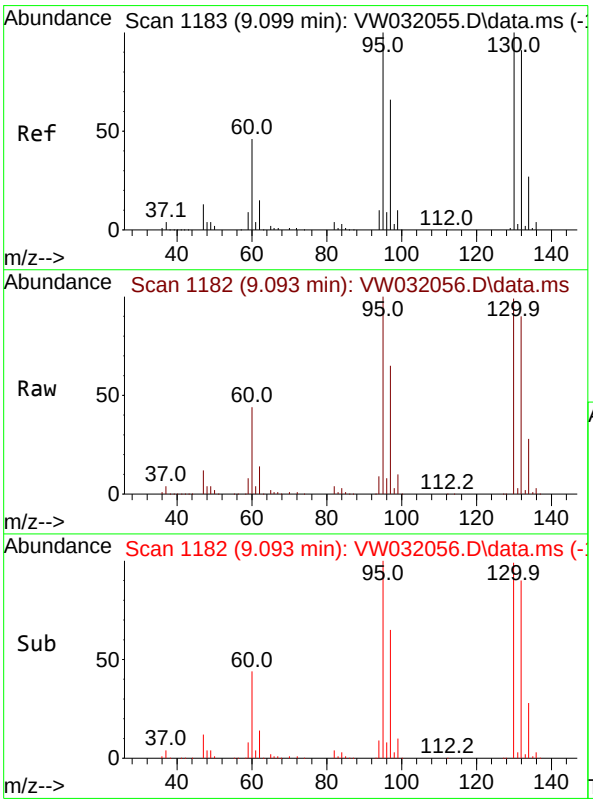
#43
Isopropyl Acetate
Concen: 98.543 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

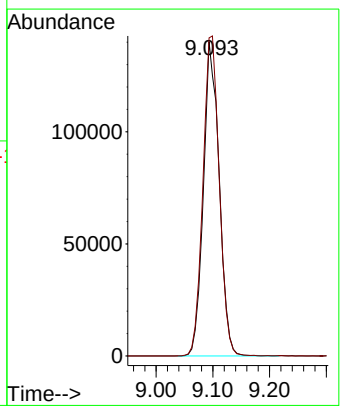


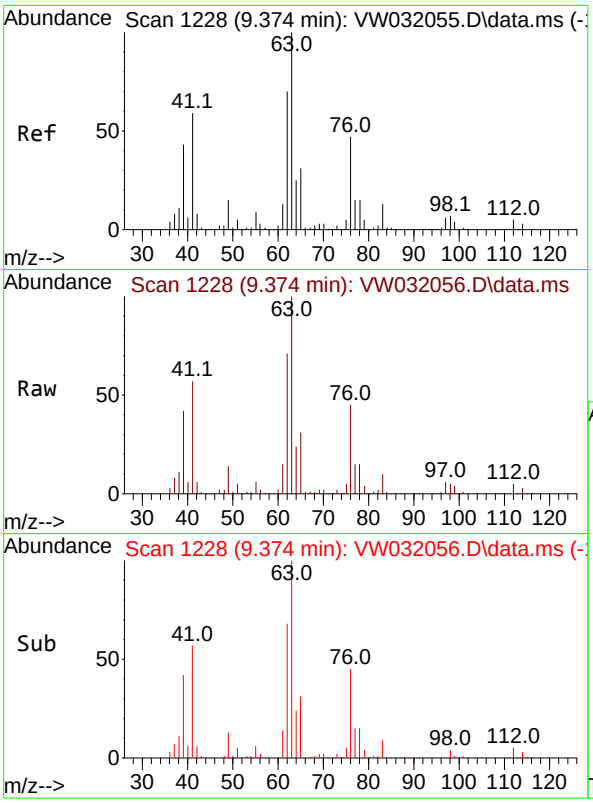


#44
Trichloroethene
Concen: 94.602 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:130 Resp: 270995

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	200.6



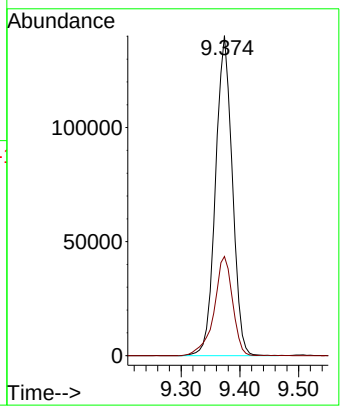


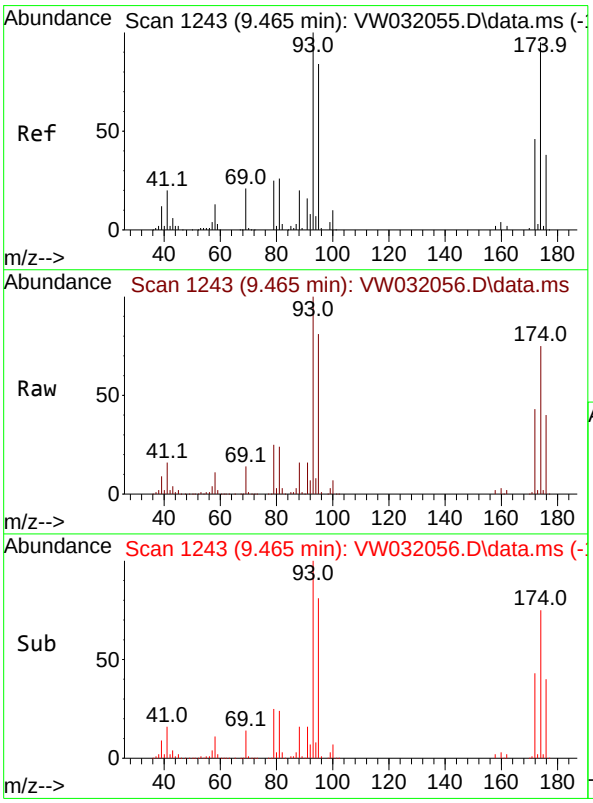
#45
1,2-Dichloropropane
Concen: 95.707 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 278124

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.6	36.8

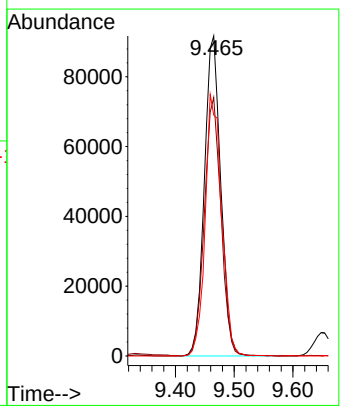


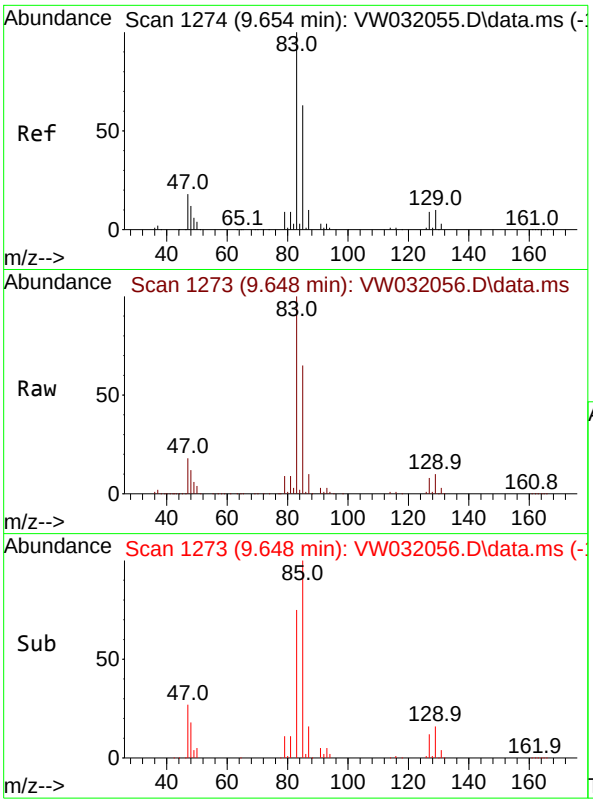


#46
Dibromomethane
Concen: 94.888 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



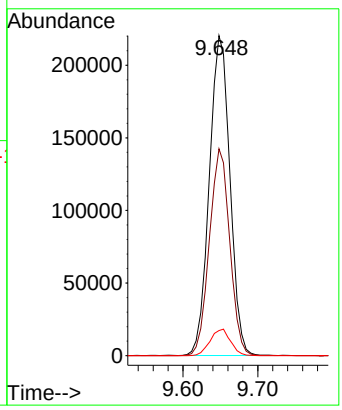


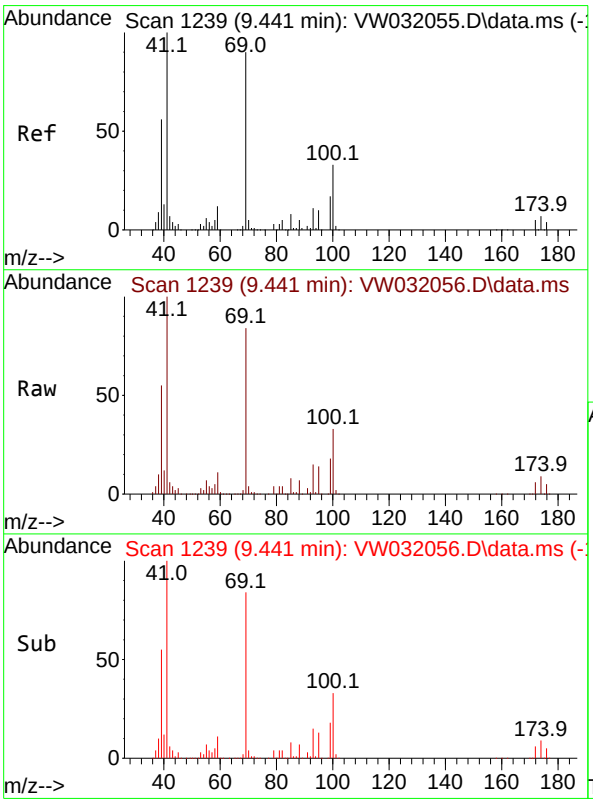
#47
Bromodichloromethane
Concen: 97.867 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

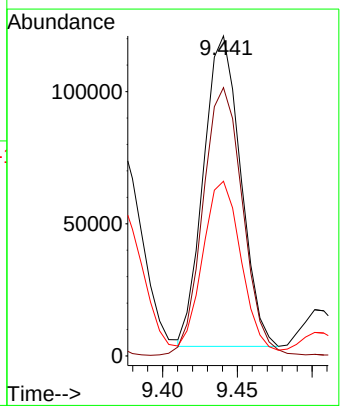


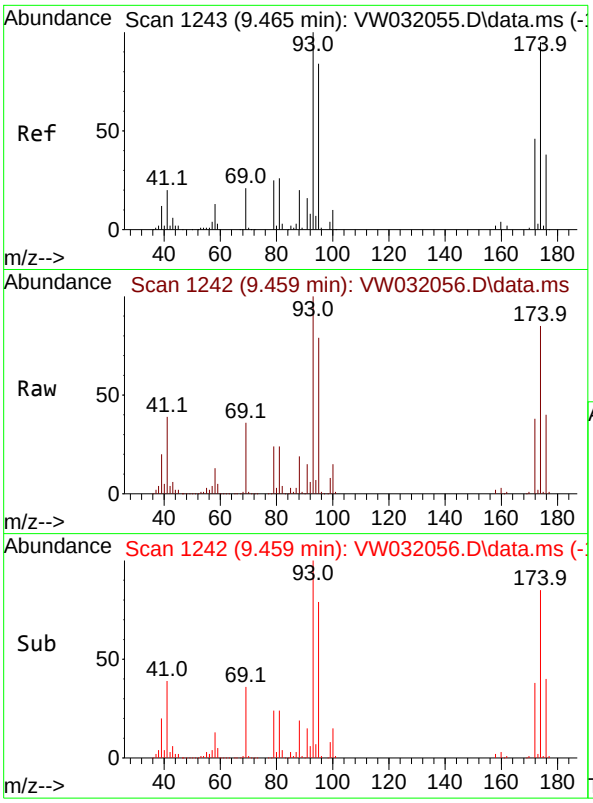


#48
Methyl methacrylate
Concen: 100.098 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



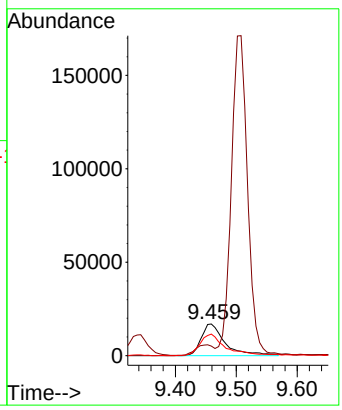


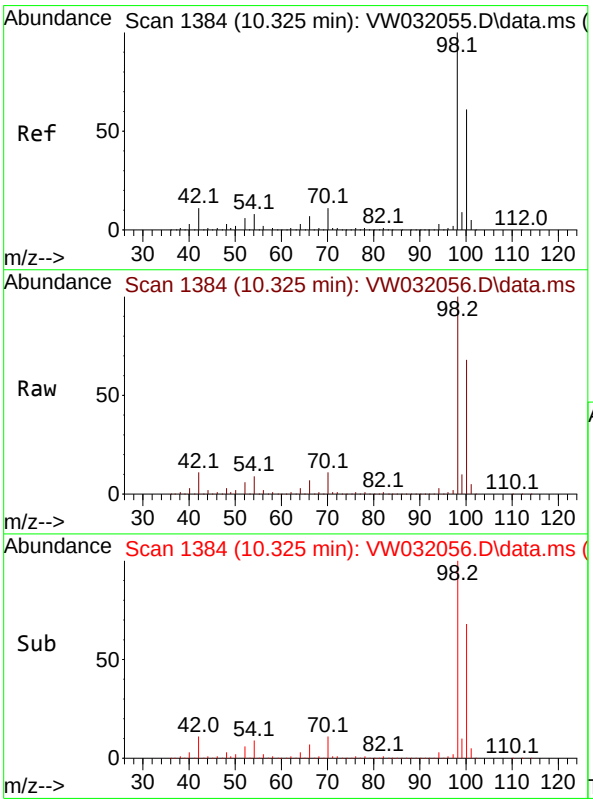
#49
1,4-Dioxane
Concen: 1912.696 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

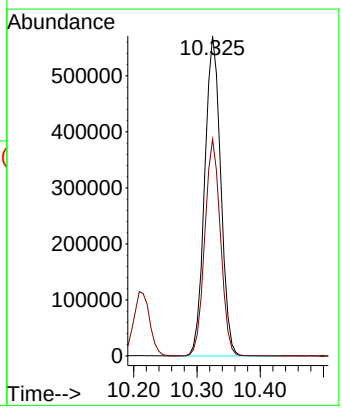


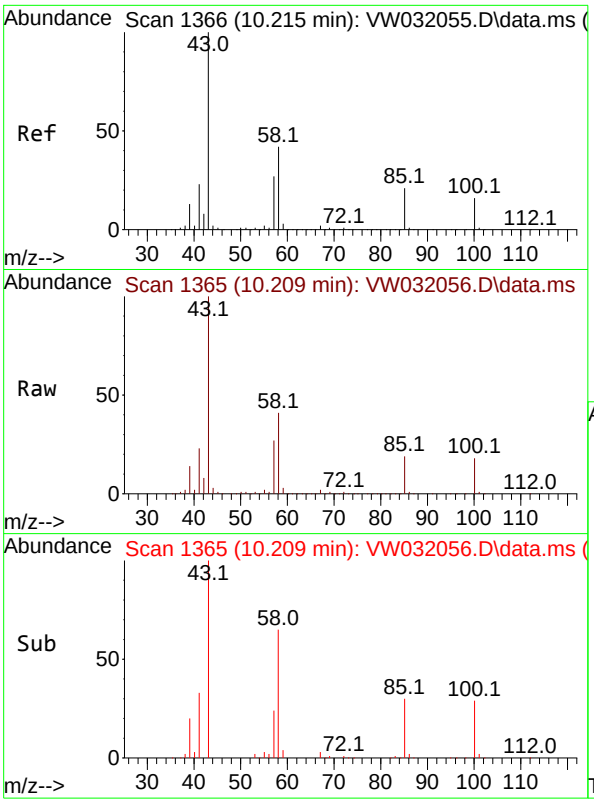


#50
Toluene-d8
Concen: 99.078 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 98 Resp: 1005940

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.1	76.7



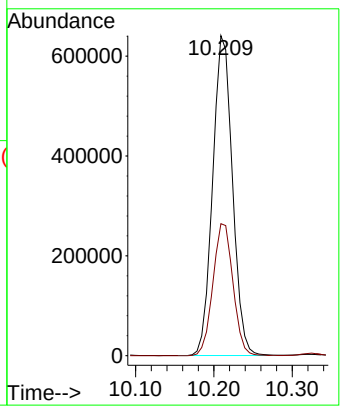


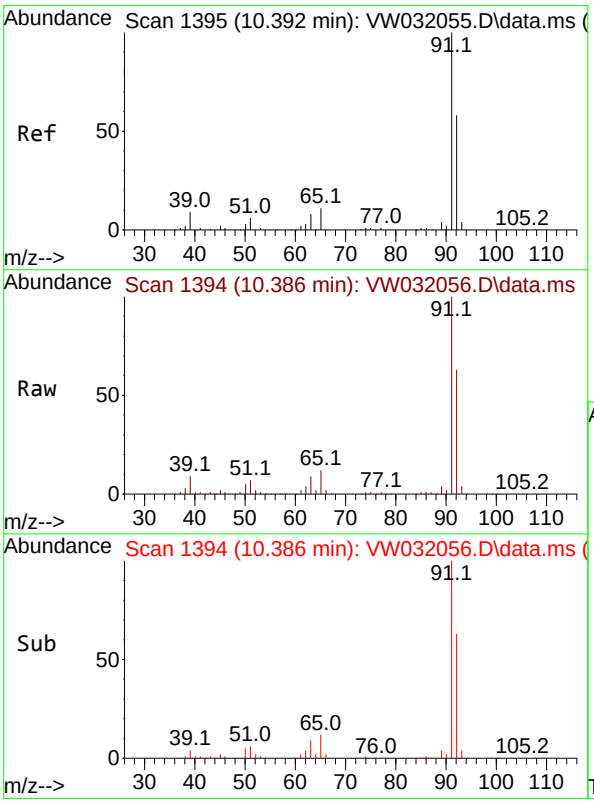
#51
4-Methyl-2-Pentanone
Concen: 476.209 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1127080

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.1	49.7

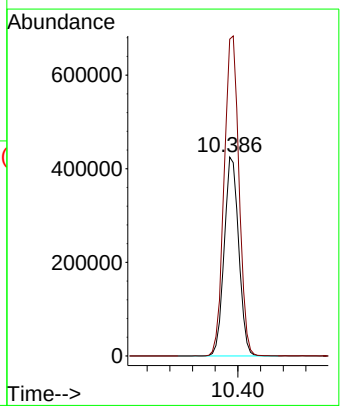


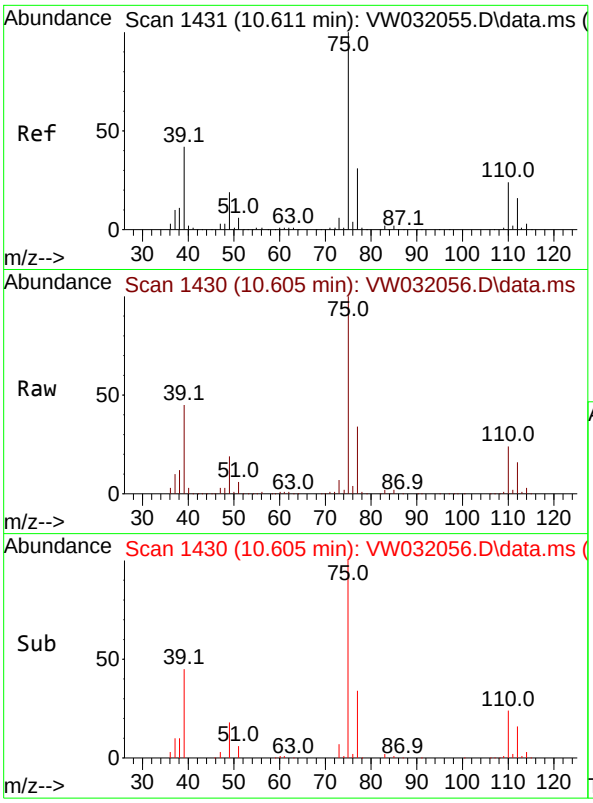


#52
Toluene
Concen: 99.464 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 92 Resp: 753592

Ion	Ratio	Lower	Upper
92	100		
91	165.0	136.3	204.5



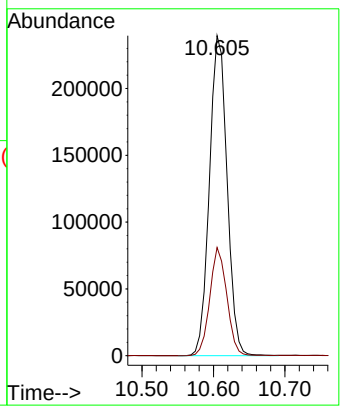


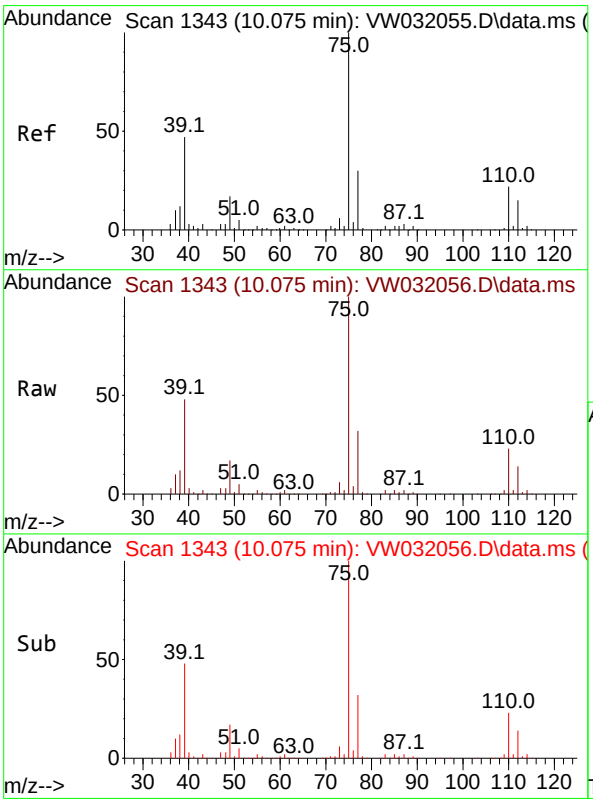
#53
t-1,3-Dichloropropene
Concen: 101.442 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 410734

Ion	Ratio	Lower	Upper
75	100		
77	33.8	25.0	37.6

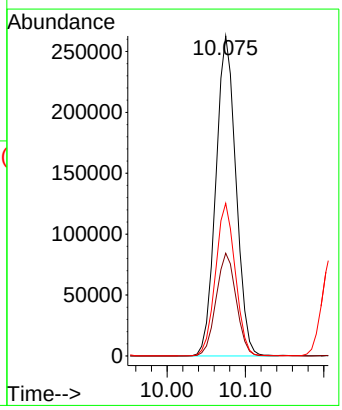


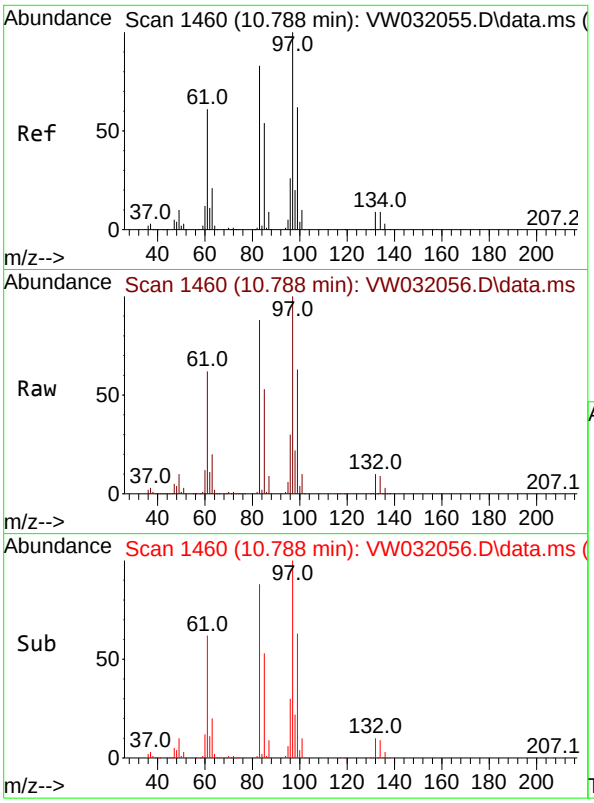


#54
cis-1,3-Dichloropropene
Concen: 102.096 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



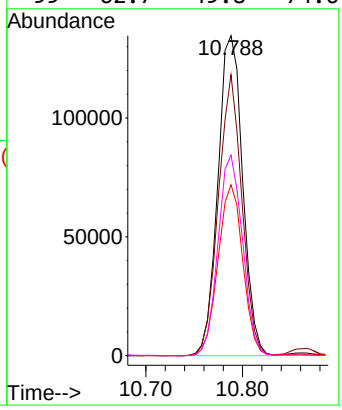


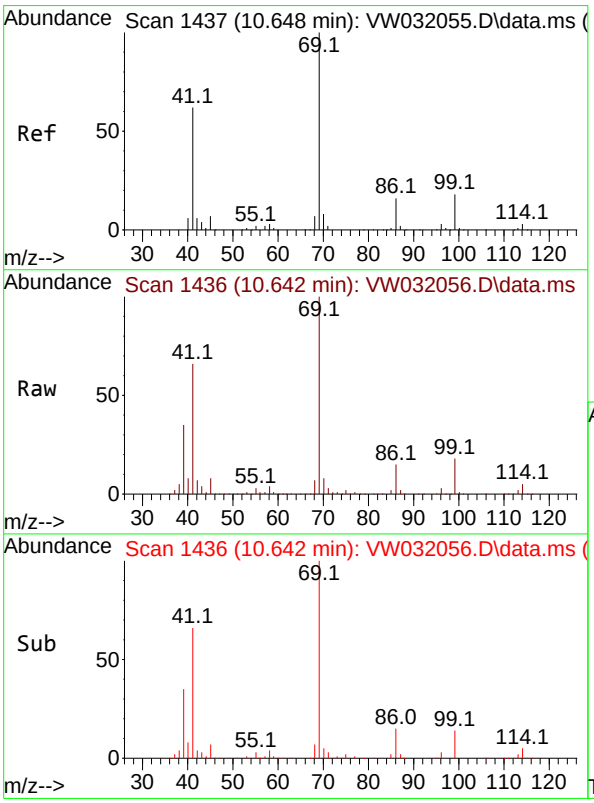
#55
1,1,2-Trichloroethane
Concen: 96.099 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

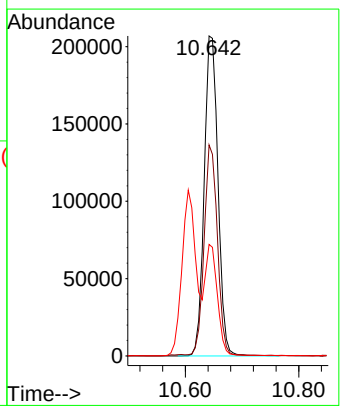


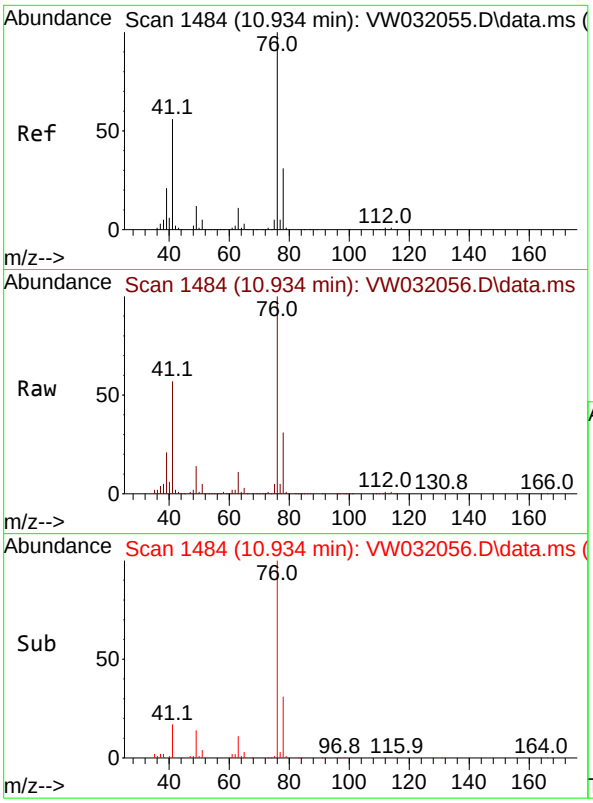


#56
Ethyl methacrylate
Concen: 104.477 ug/l
RT: 10.642 min Scan# 1436
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



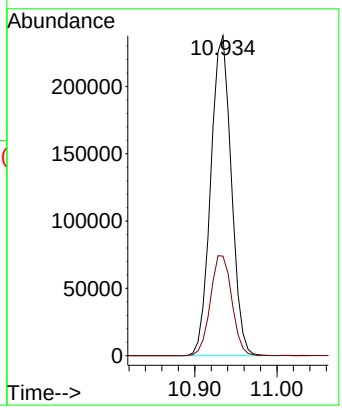


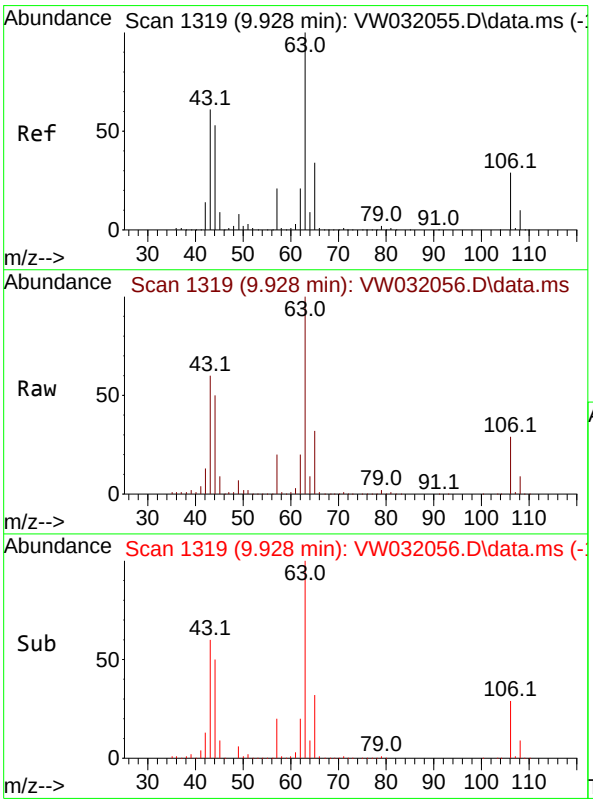
#57
1,3-Dichloropropane
Concen: 95.056 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 412949

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.6

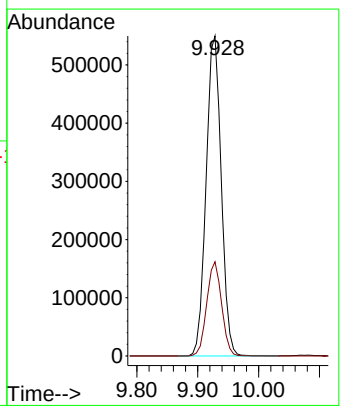


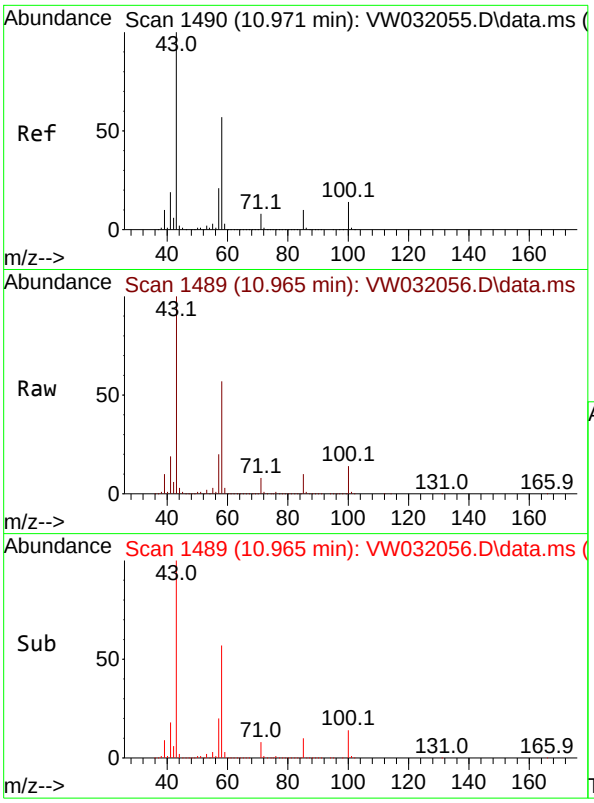


#58
2-Chloroethyl Vinyl ether
Concen: 513.956 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 948129

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.5	35.3



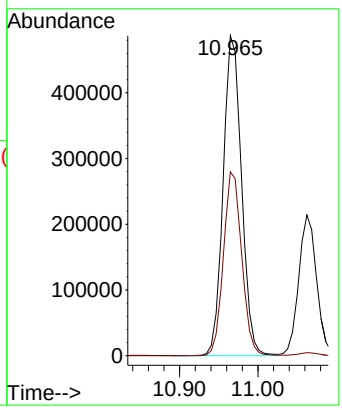


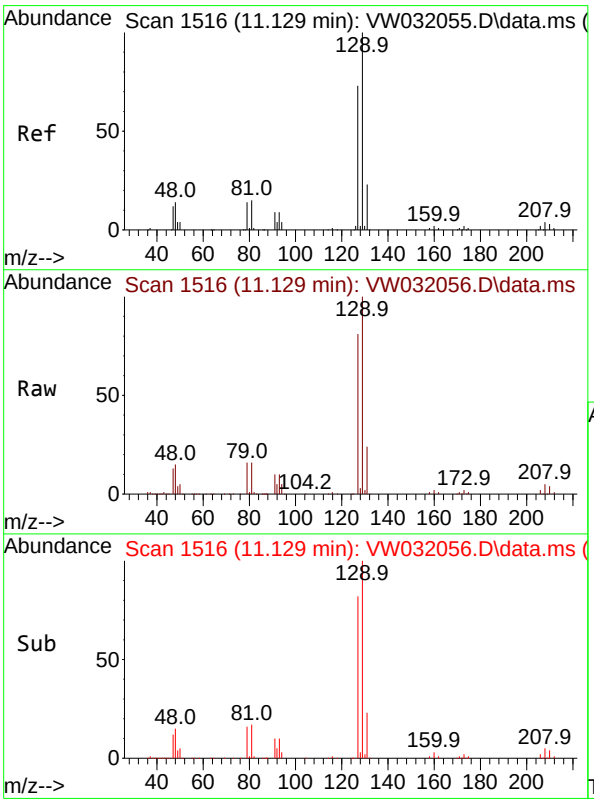
#59
2-Hexanone
Concen: 484.283 ug/l
RT: 10.965 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 793810

Ion	Ratio	Lower	Upper
43	100		
58	57.2	28.3	85.0

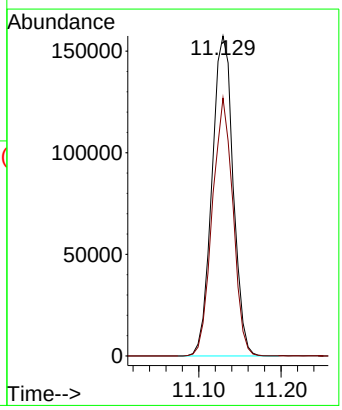


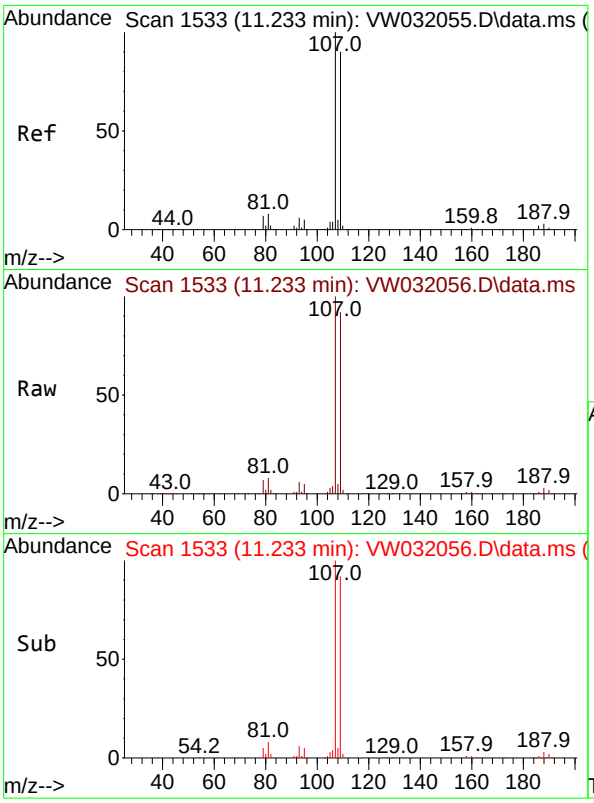


#60
Dibromochloromethane
Concen: 99.074 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:129 Resp: 282060

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.0	116.9



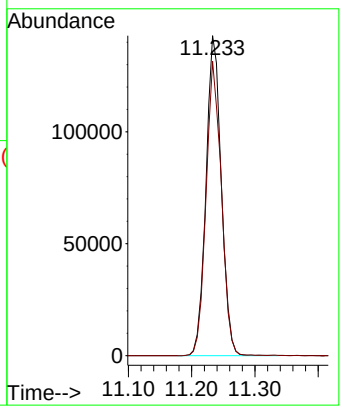


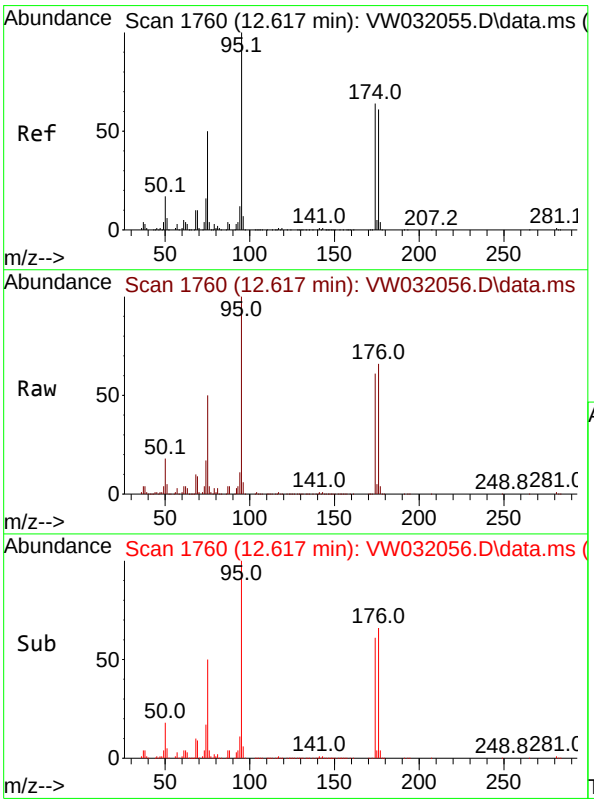
#61
1,2-Dibromoethane
Concen: 99.317 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 240542

Ion	Ratio	Lower	Upper
107	100		
109	92.1	74.2	111.4

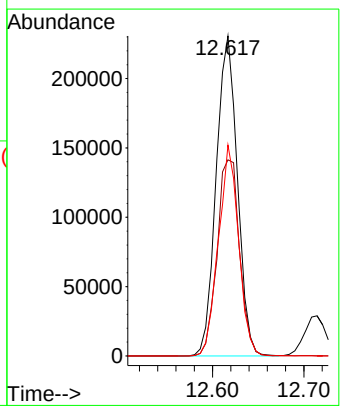


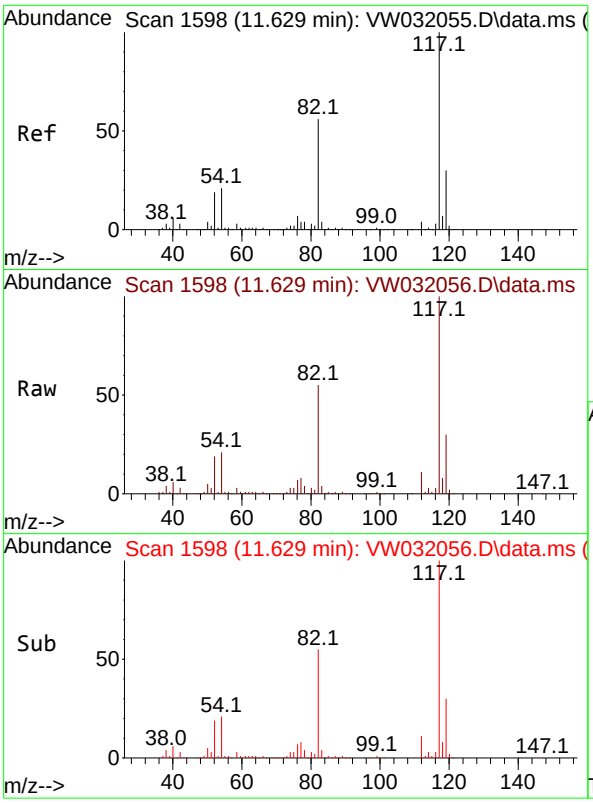


#62
4-Bromofluorobenzene
Concen: 99.536 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



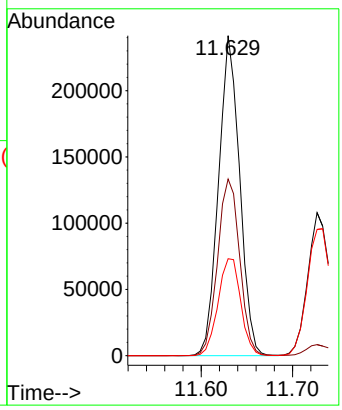


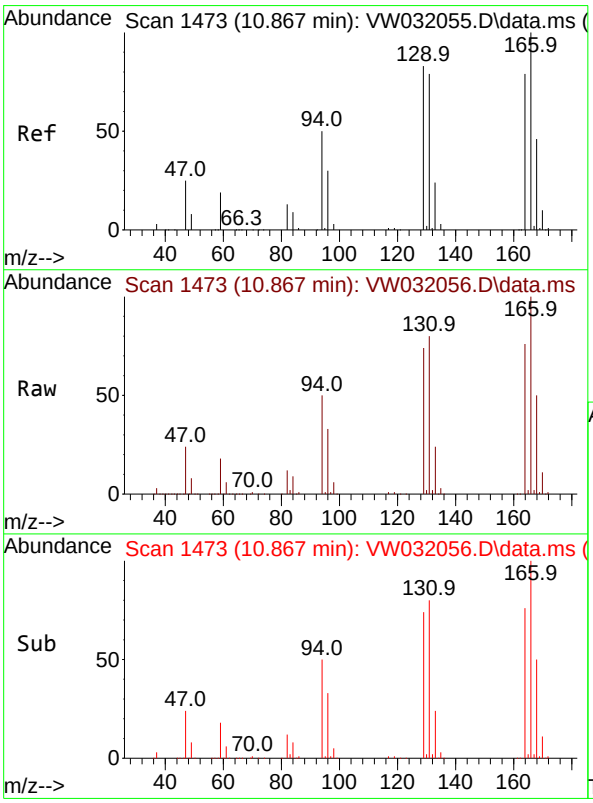
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

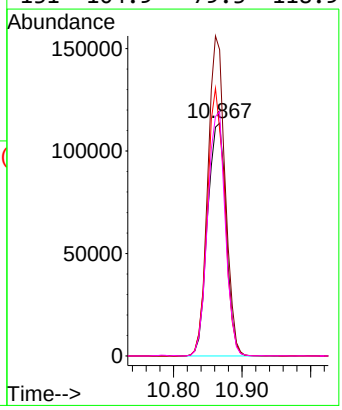


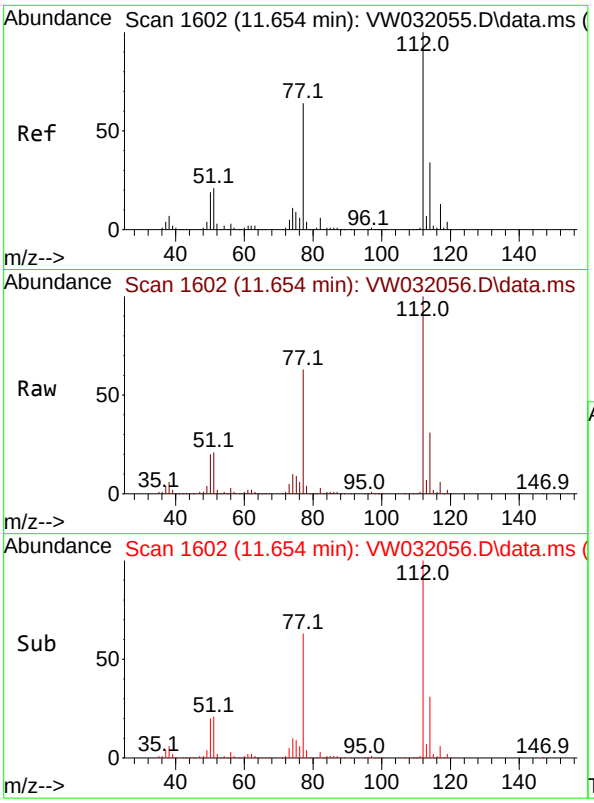


#64
Tetrachloroethene
Concen: 95.247 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



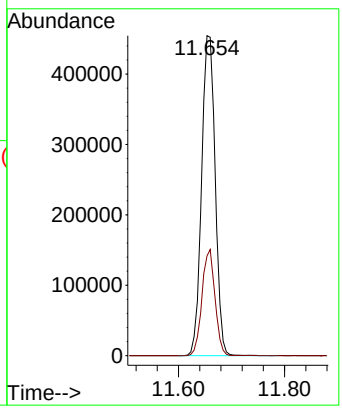


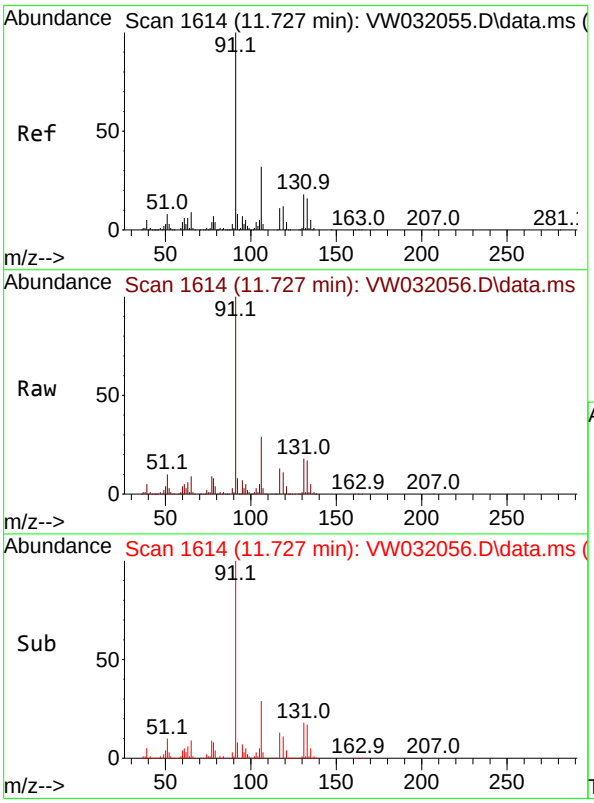
#65
Chlorobenzene
Concen: 95.819 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 808609

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.9	40.3

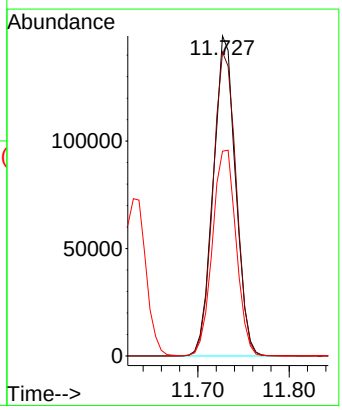


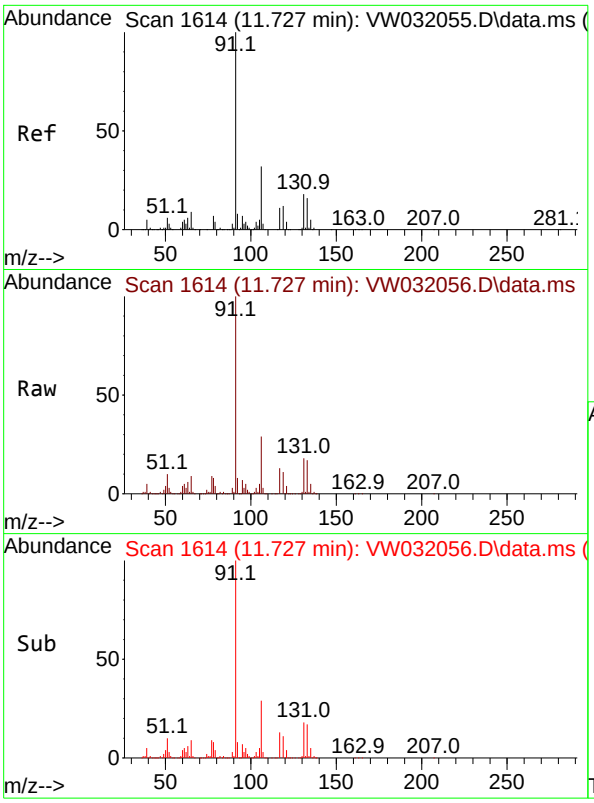


#66
1,1,1,2-Tetrachloroethane
Concen: 96.197 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



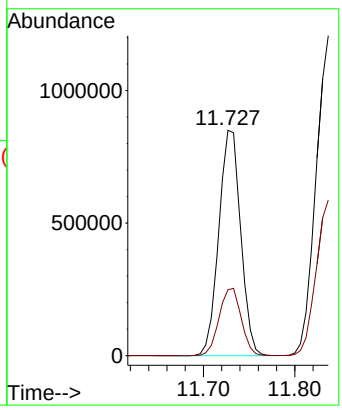


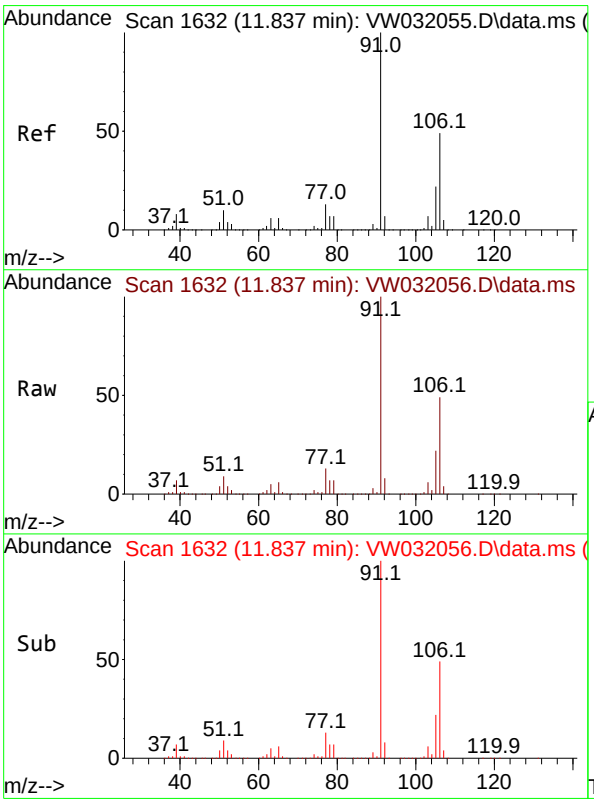
#67
Ethyl Benzene
Concen: 99.243 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1418619

Ion	Ratio	Lower	Upper
91	100		
106	29.3	25.4	38.0

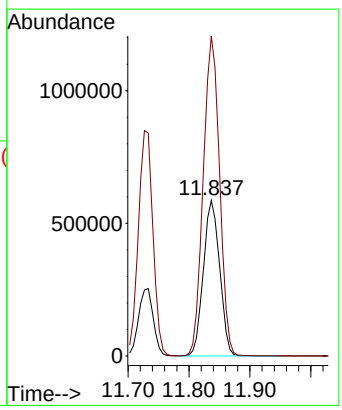


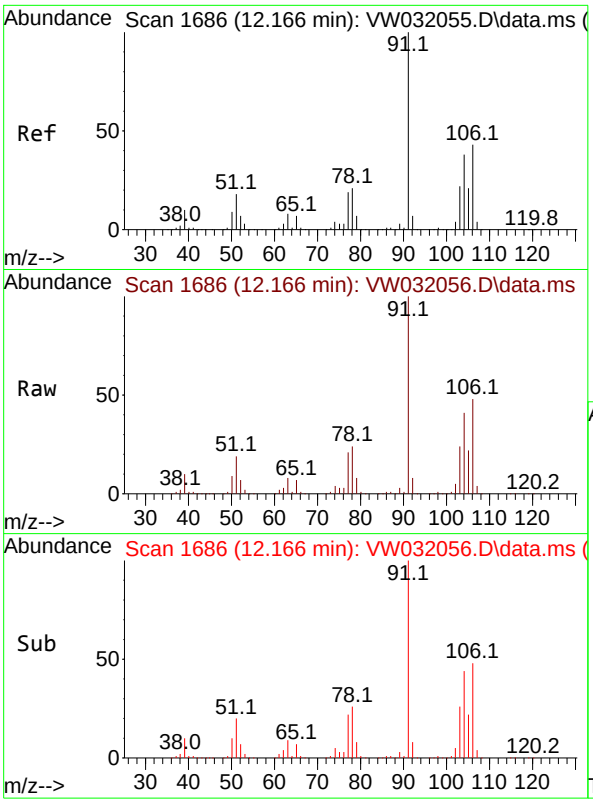


#68
m/p-Xylenes
Concen: 197.459 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 1089143

Ion	Ratio	Lower	Upper
106	100		
91	206.7	162.2	243.2



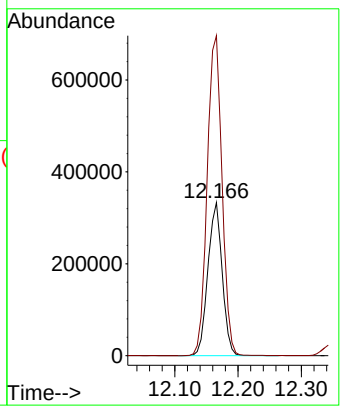


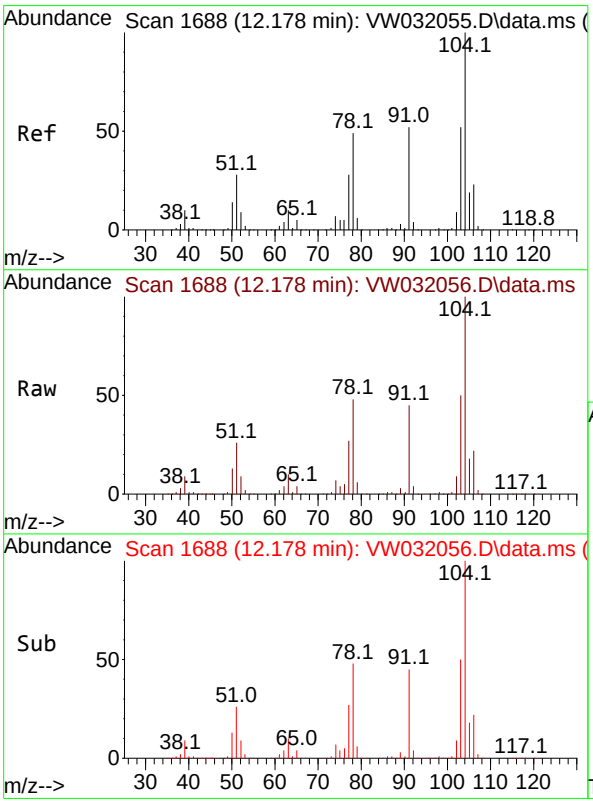
#69
o-Xylene
Concen: 102.652 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 523329

Ion	Ratio	Lower	Upper
106	100		
91	216.8	110.8	332.3

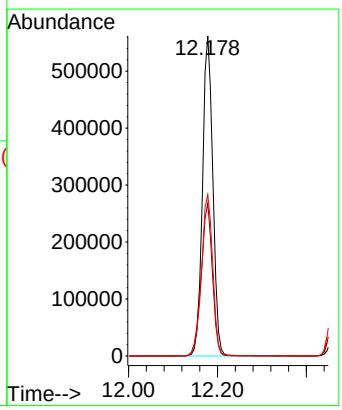


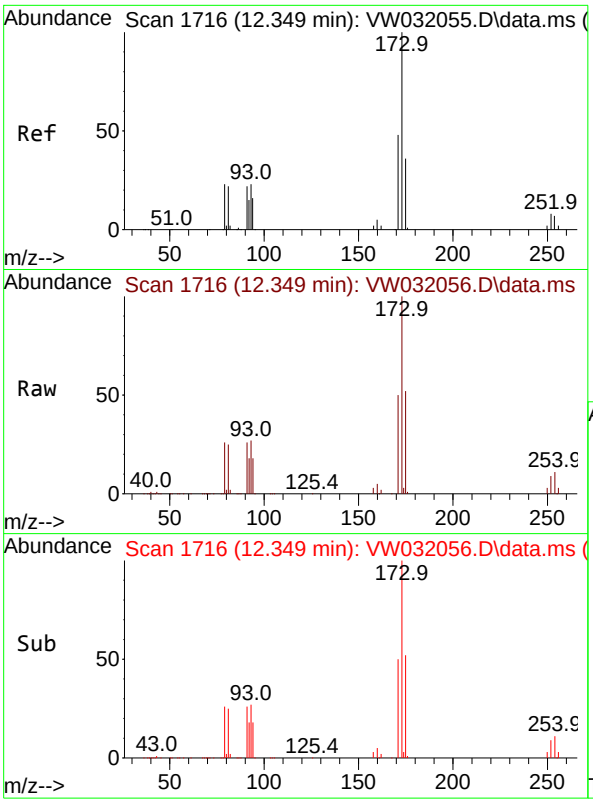


#70
Styrene
Concen: 101.158 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



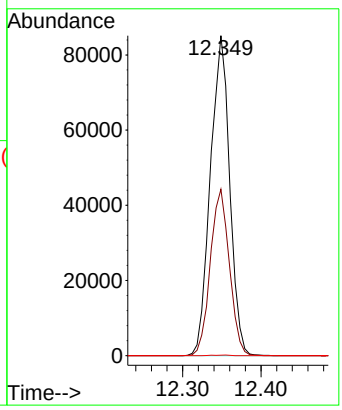


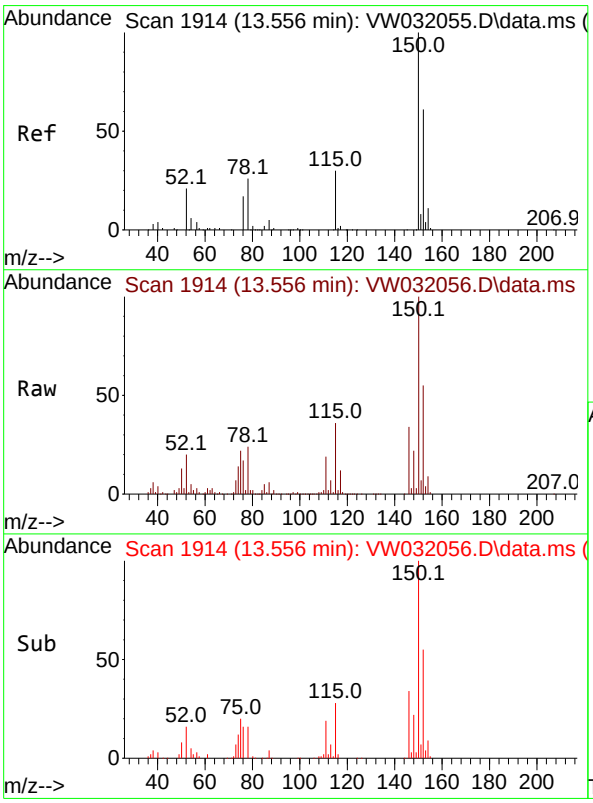
#71
Bromoform
Concen: 96.794 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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#

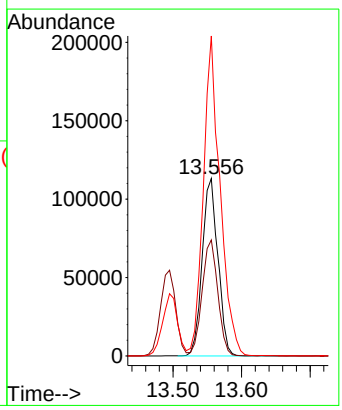


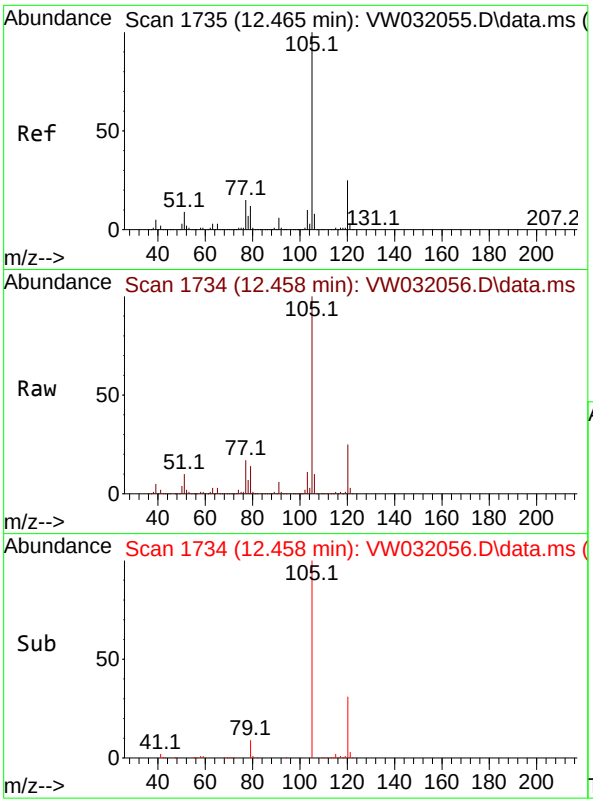


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



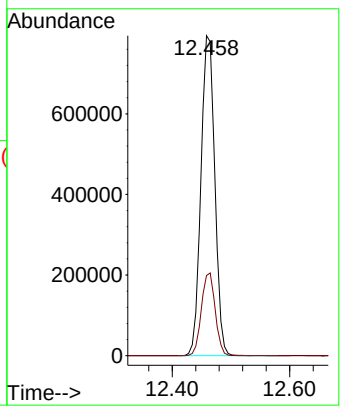


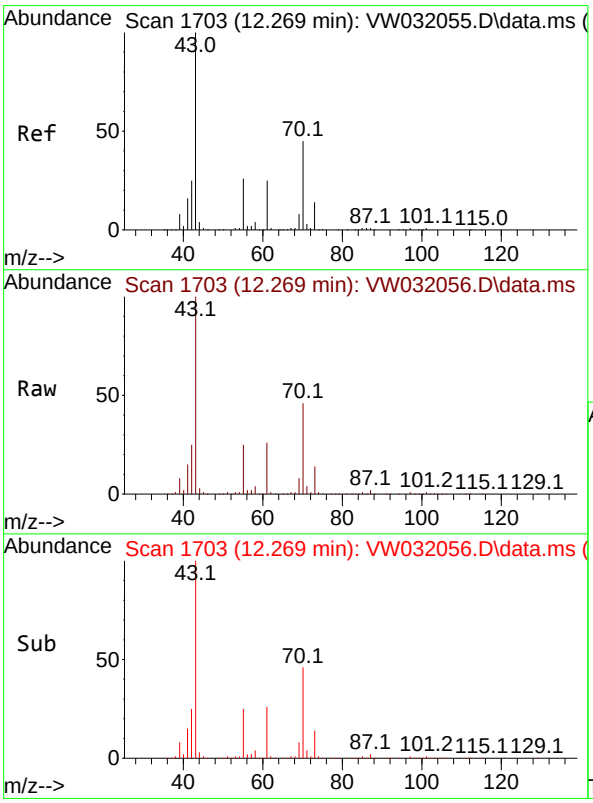
#73
Isopropylbenzene
Concen: 102.870 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1299533

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4

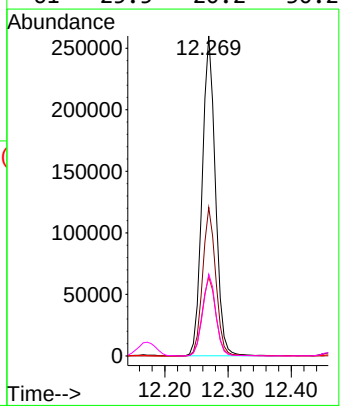


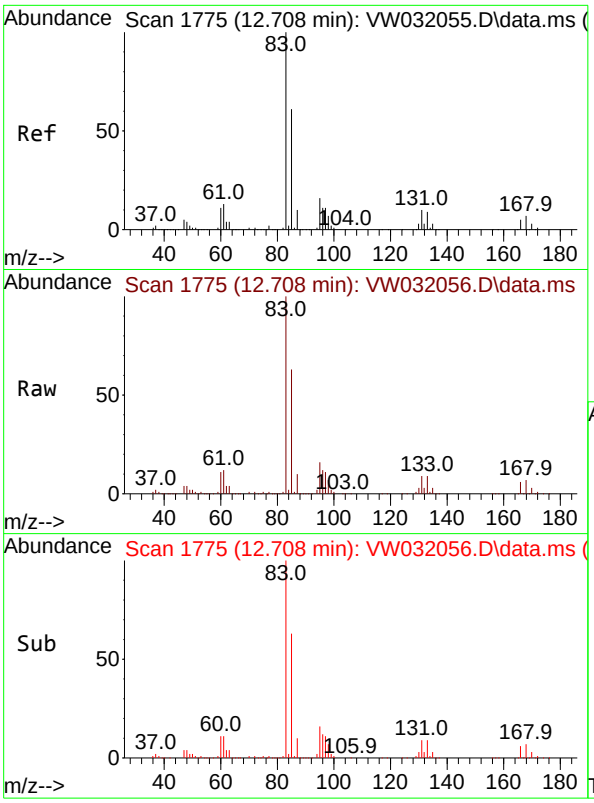


#74
N-amyl acetate
Concen: 104.494 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



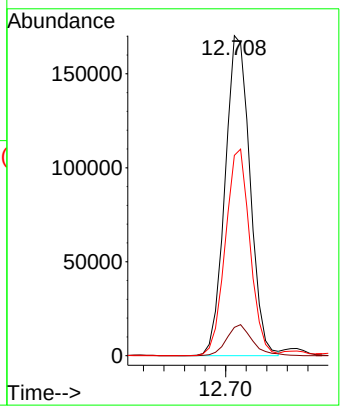


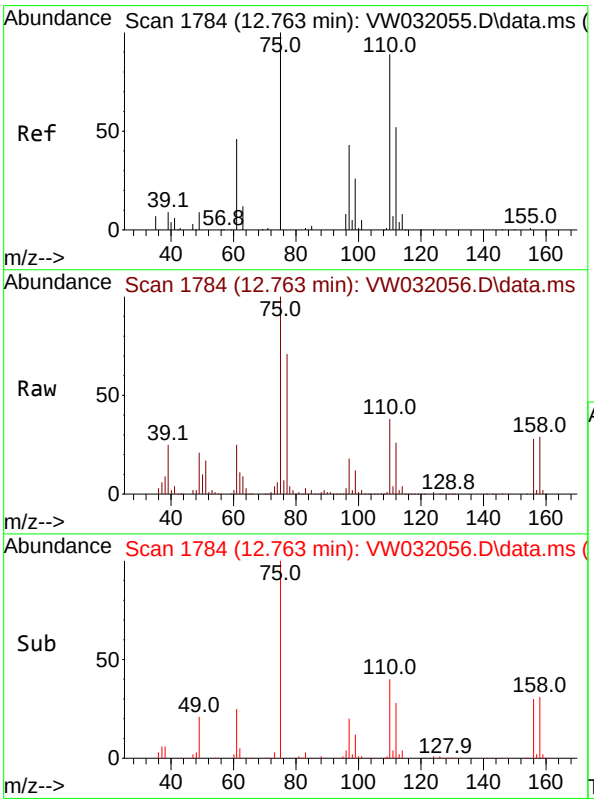
#75
1,1,2,2-Tetrachloroethane
Concen: 95.677 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

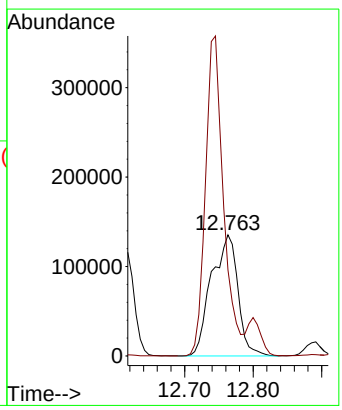


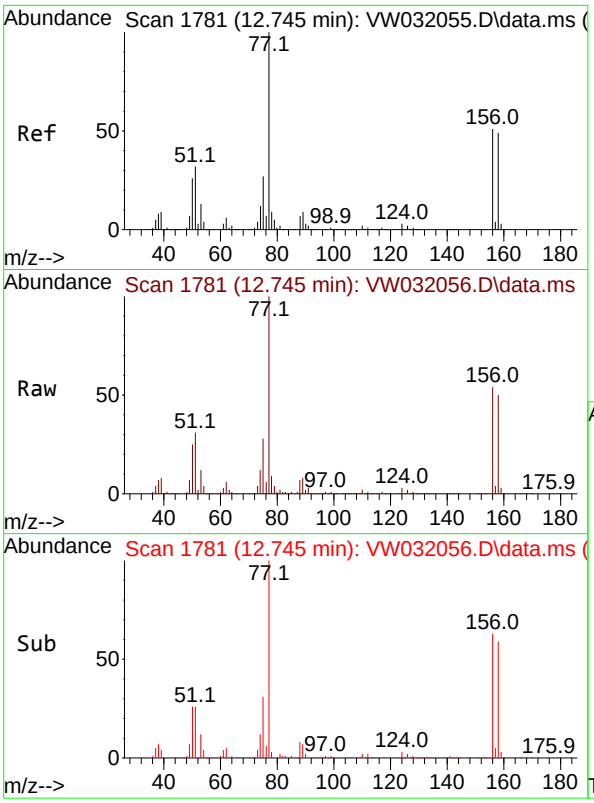


#76
1,2,3-Trichloropropane
Concen: 130.728 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 363264

Ion	Ratio	Lower	Upper
75	100		
77	179.3	123.5	370.5



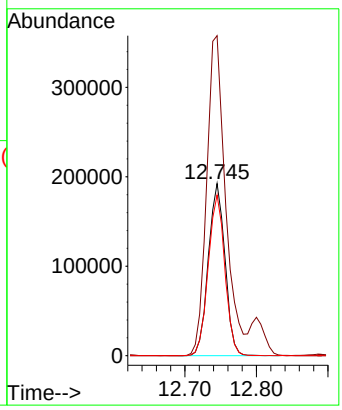


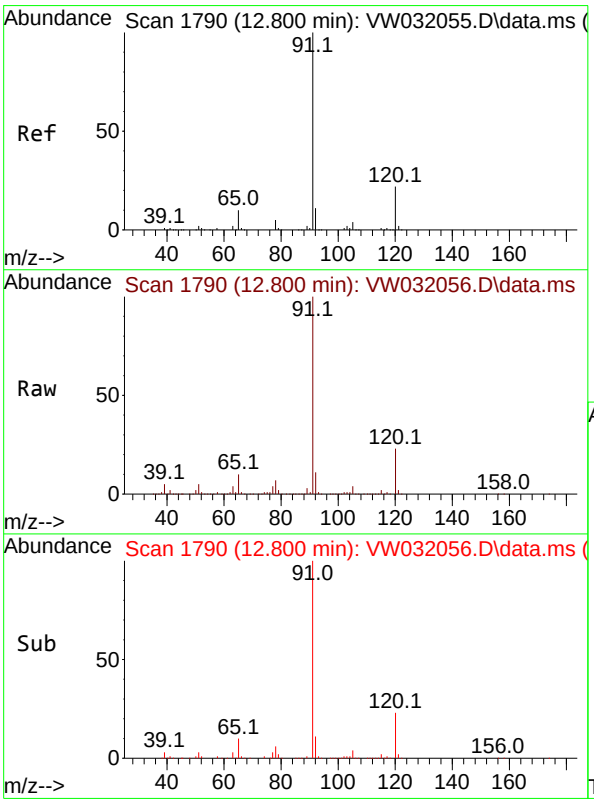
#77
Bromobenzene
Concen: 103.091 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

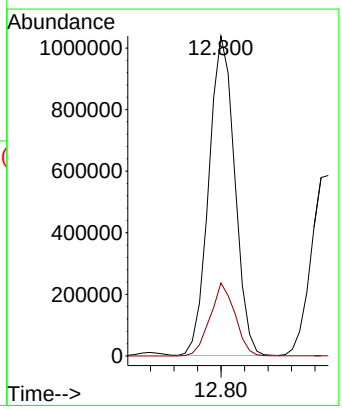


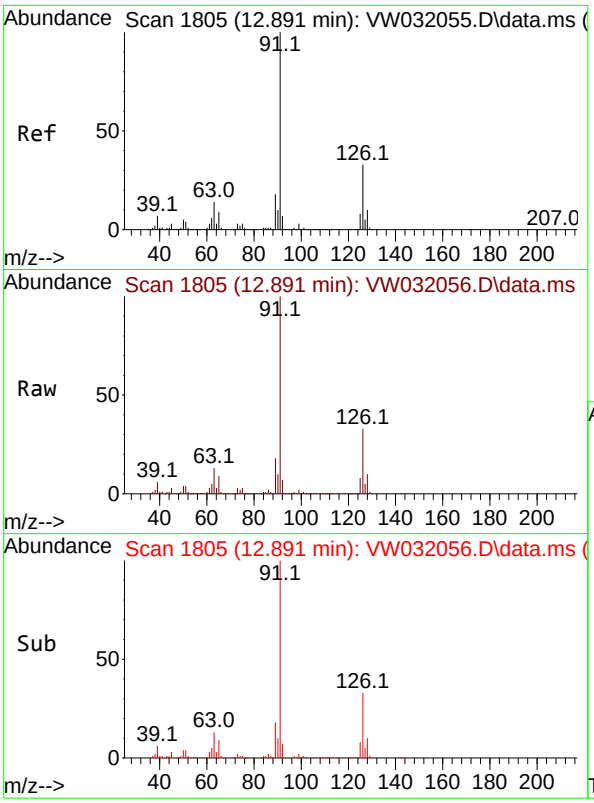


#78
n-propylbenzene
Concen: 102.177 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1589147

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3



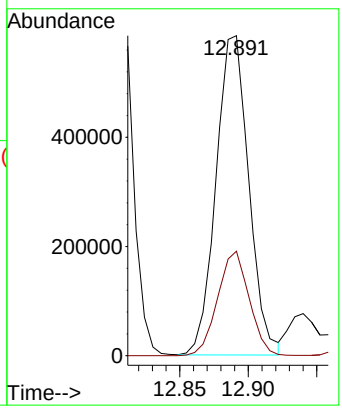


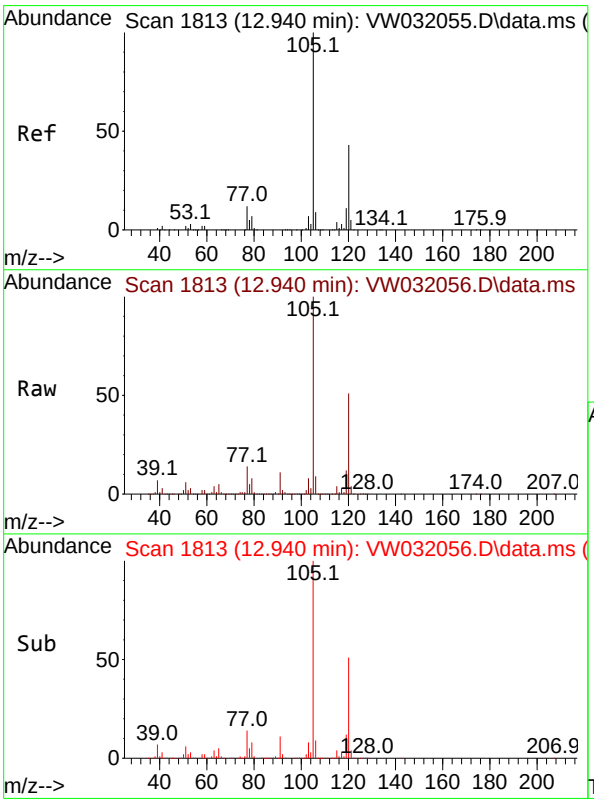
#79
2-Chlorotoluene
Concen: 101.505 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 974324

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.9	47.7

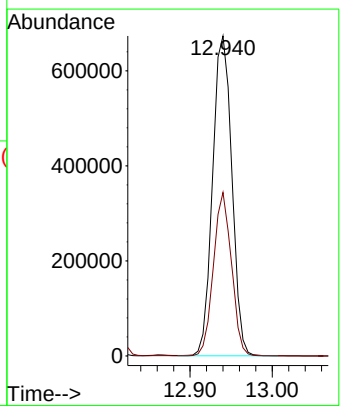


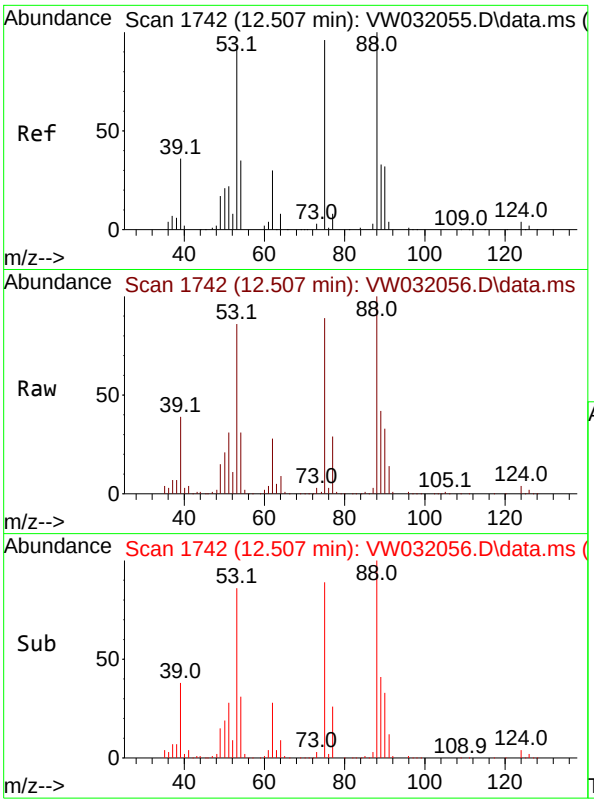


#80
1,3,5-Trimethylbenzene
Concen: 101.912 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1092987

Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.4	70.0



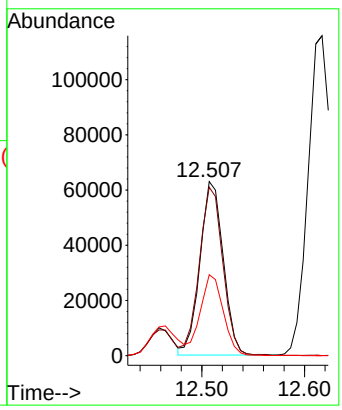


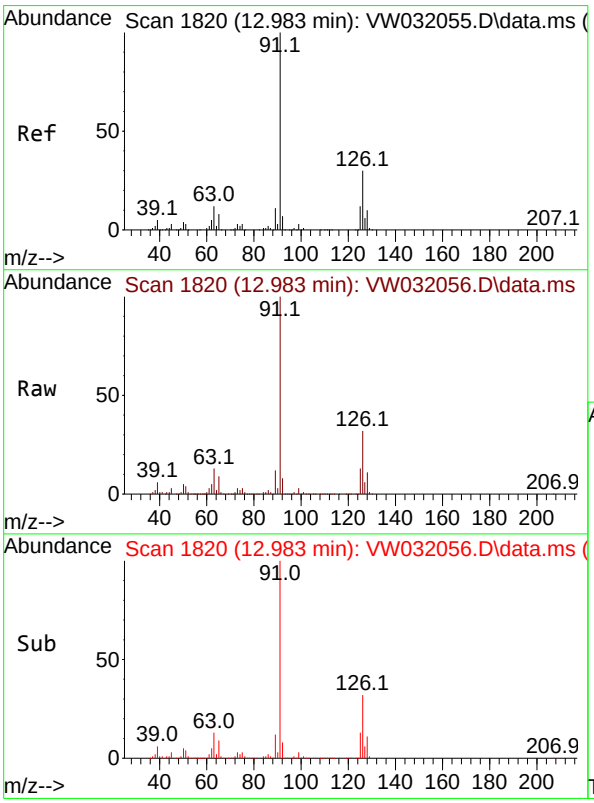
#81
trans-1,4-Dichloro-2-butene
Concen: 104.370 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

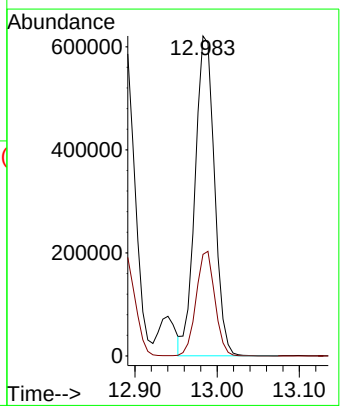


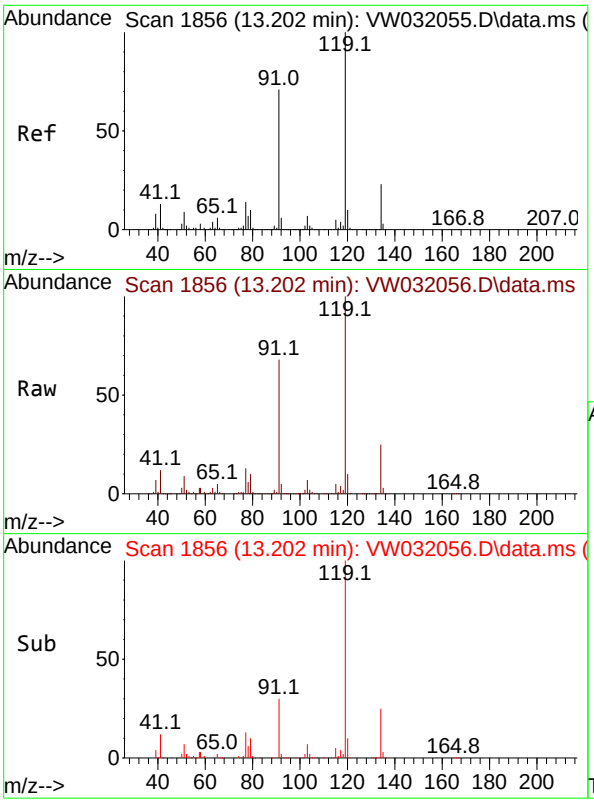


#82
4-Chlorotoluene
Concen: 99.412 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1013836

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.5	46.5



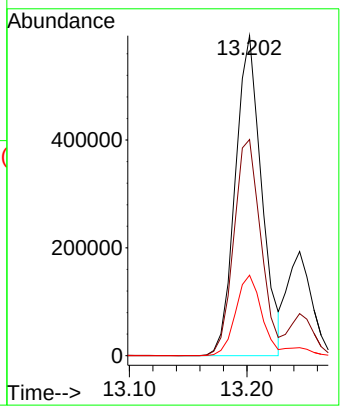


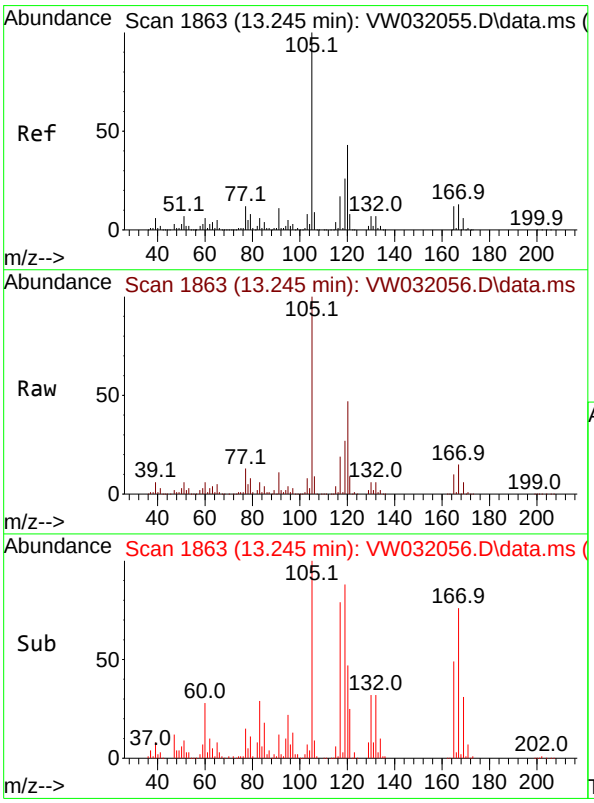
#83
tert-Butylbenzene
Concen: 103.591 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

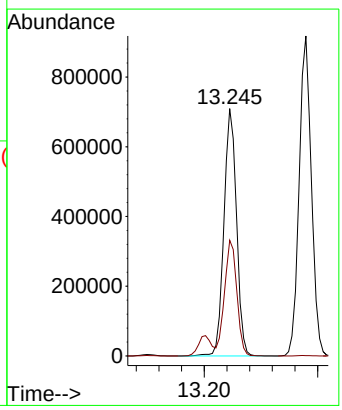


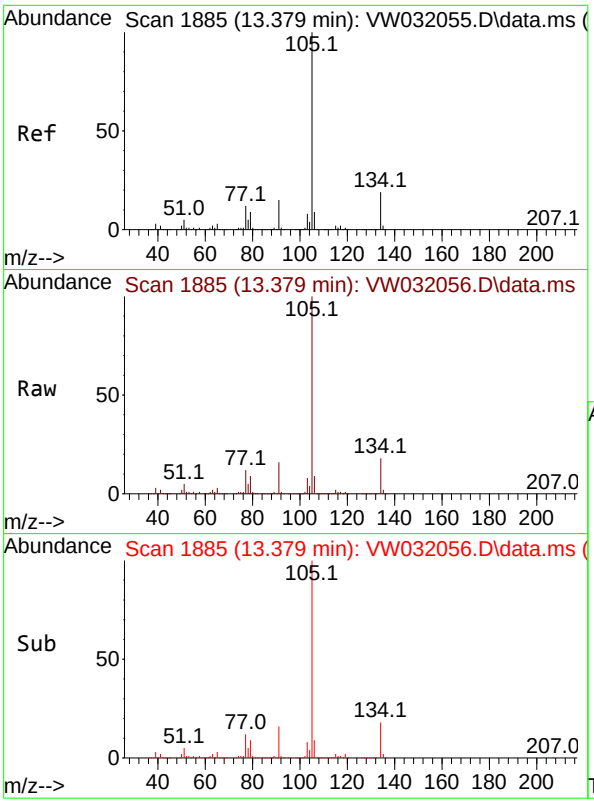


#84
1,2,4-Trimethylbenzene
Concen: 99.778 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1089327

Ion	Ratio	Lower	Upper
105	100		
120	45.7	21.6	64.8



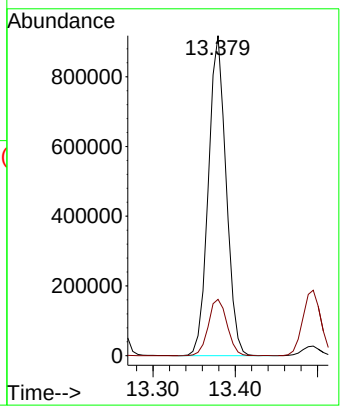


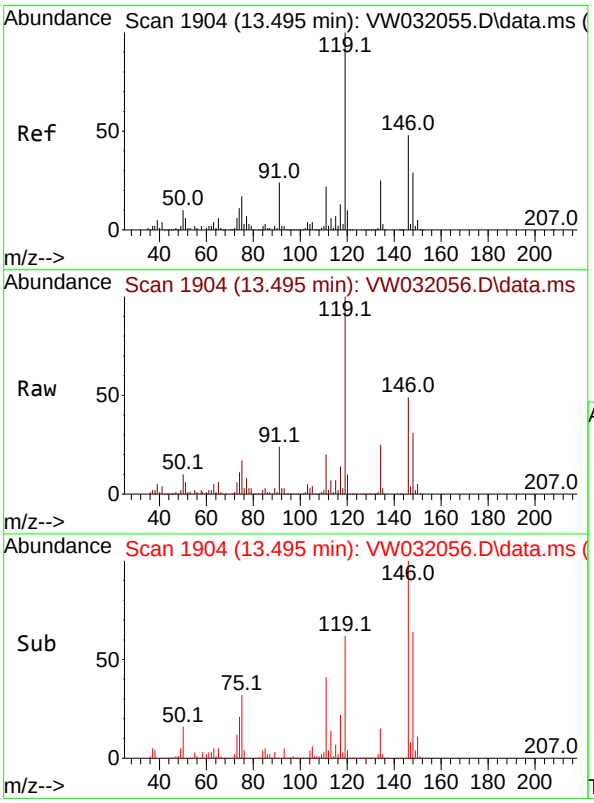
#85
sec-Butylbenzene
Concen: 101.978 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1372324

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.9	29.7

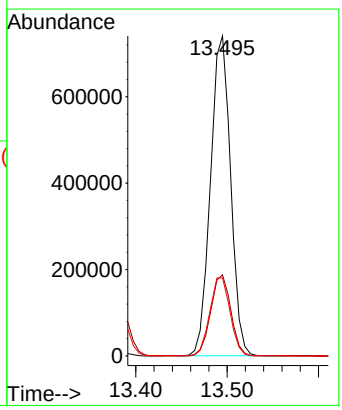


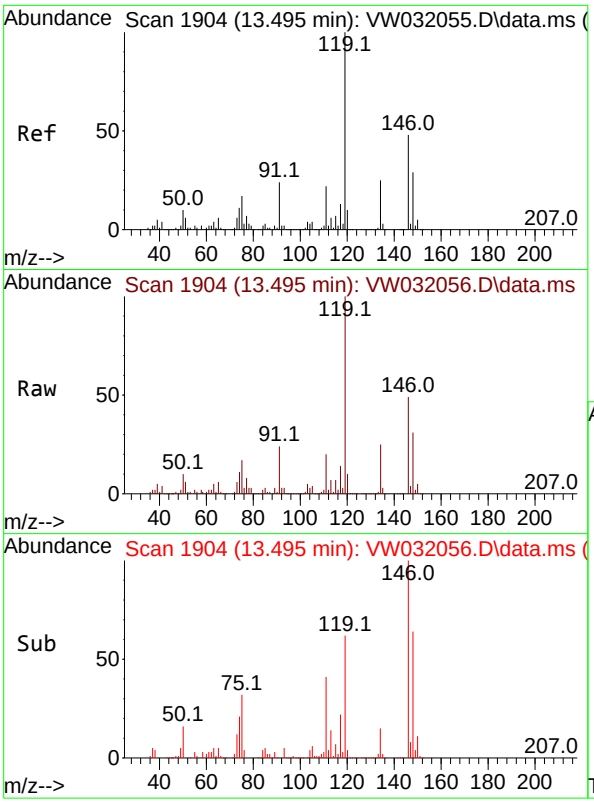


#86
p-Isopropyltoluene
Concen: 100.630 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



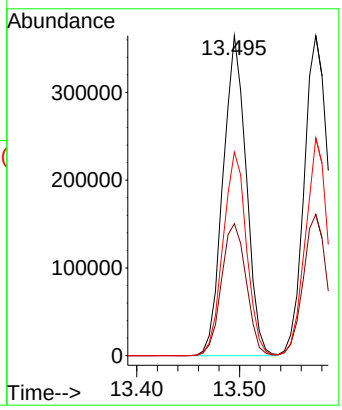


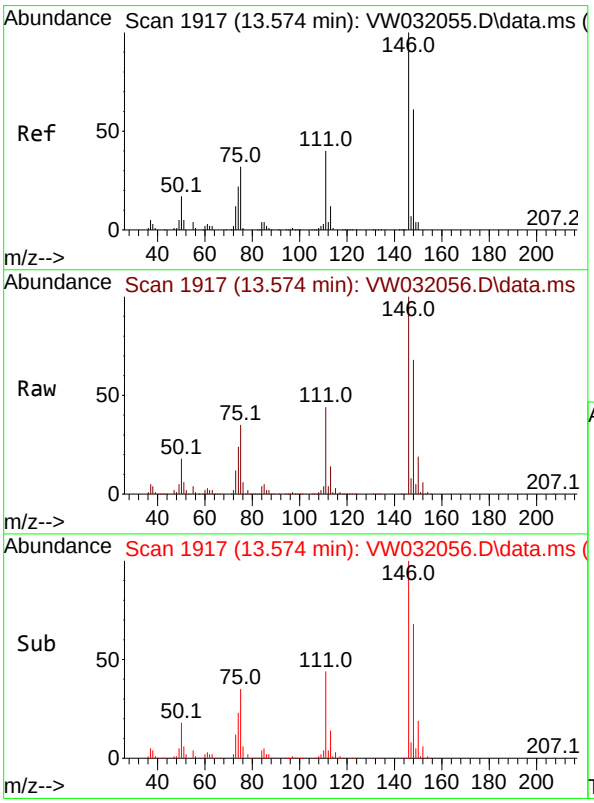
#87
1,3-Dichlorobenzene
Concen: 95.298 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

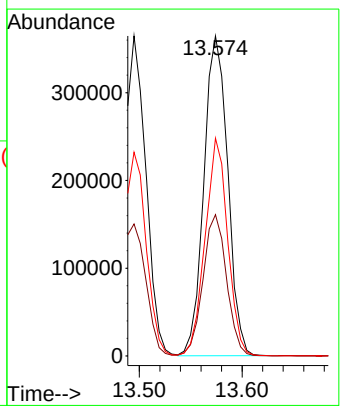


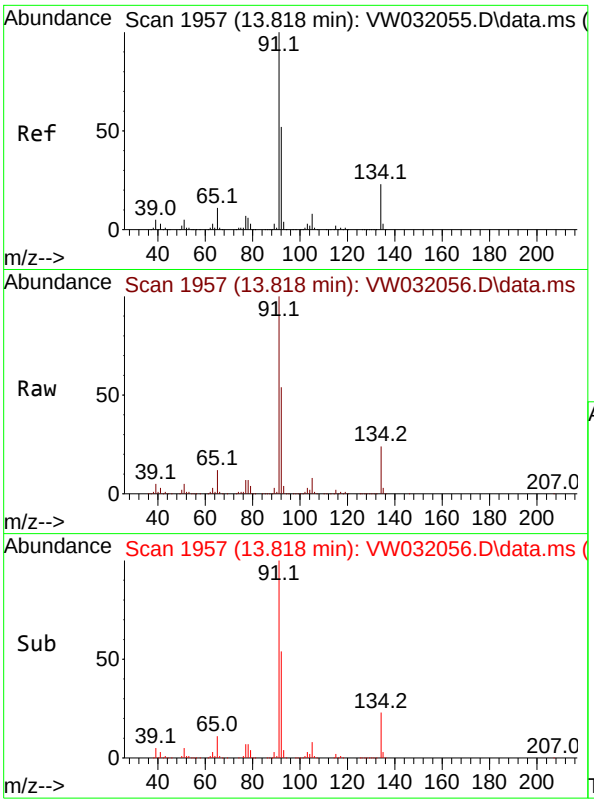


#88
1,4-Dichlorobenzene
Concen: 96.819 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



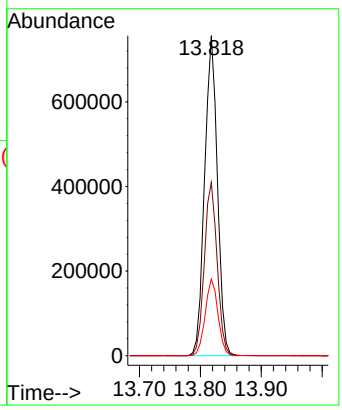


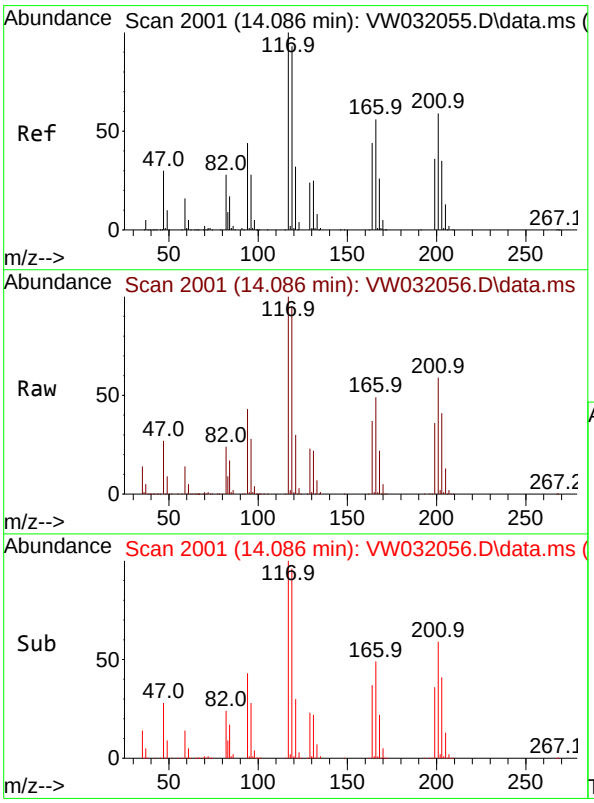
#89
n-Butylbenzene
Concen: 101.235 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

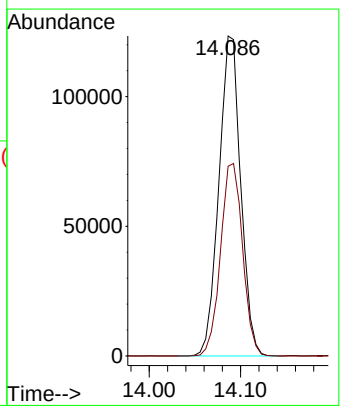


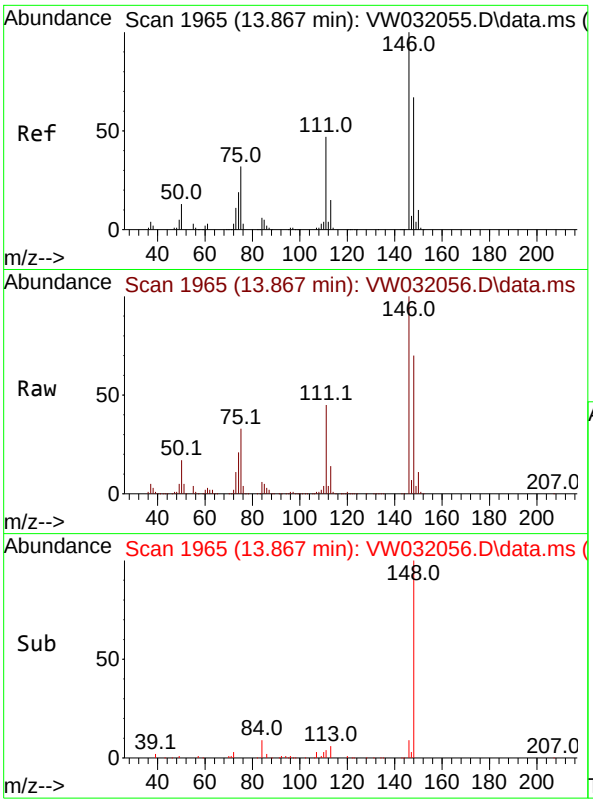


#90
Hexachloroethane
Concen: 99.832 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 204823

Ion	Ratio	Lower	Upper
117	100		
201	60.9	30.9	92.5



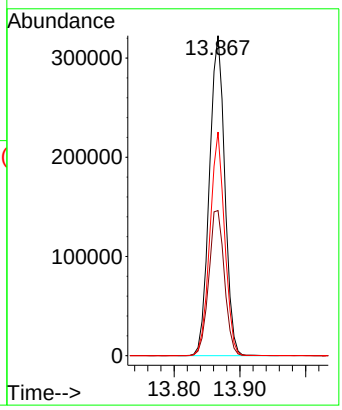


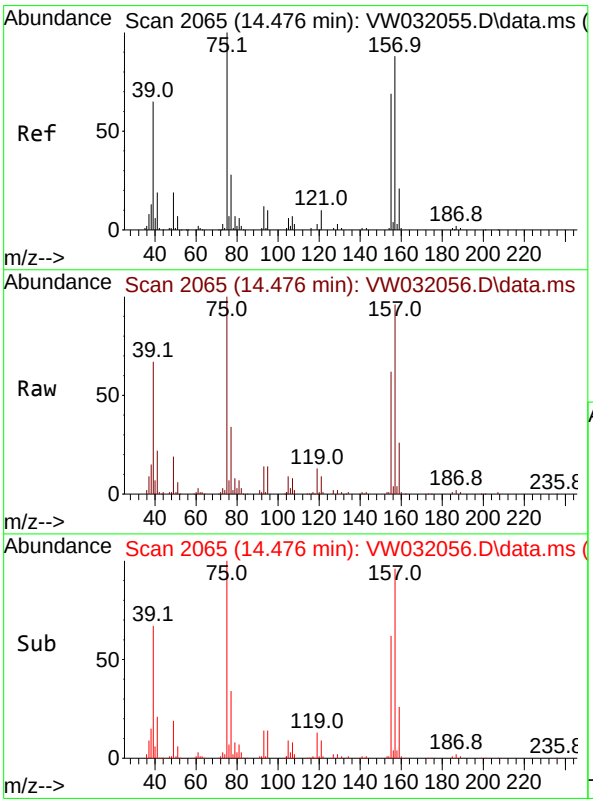
#91
1,2-Dichlorobenzene
Concen: 96.387 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

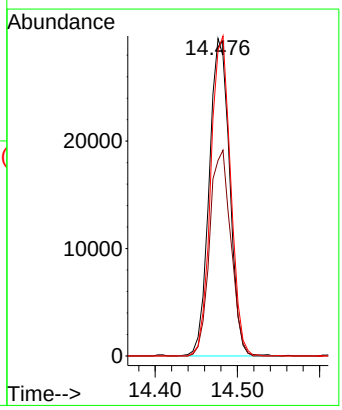


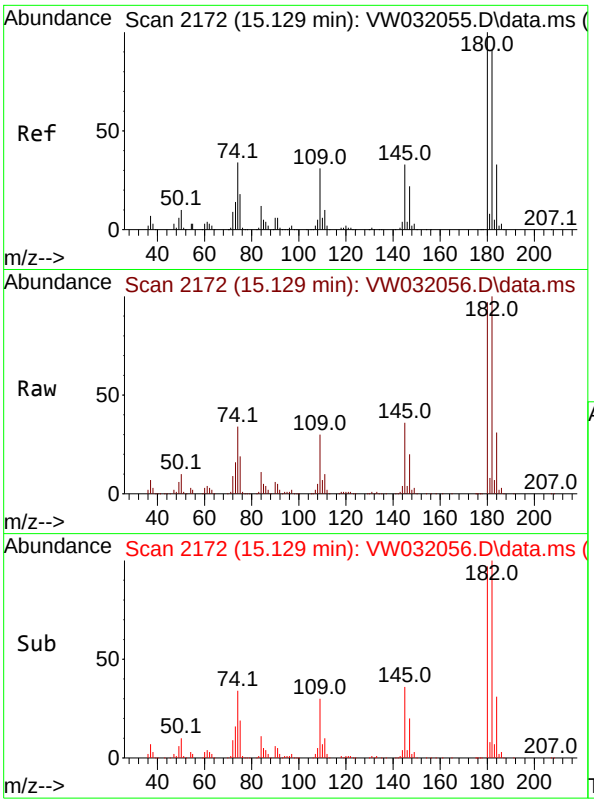


#92
1,2-Dibromo-3-Chloropropane
Concen: 95.632 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



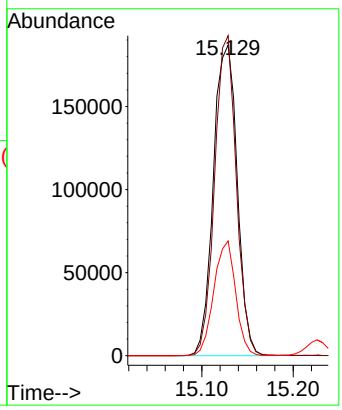


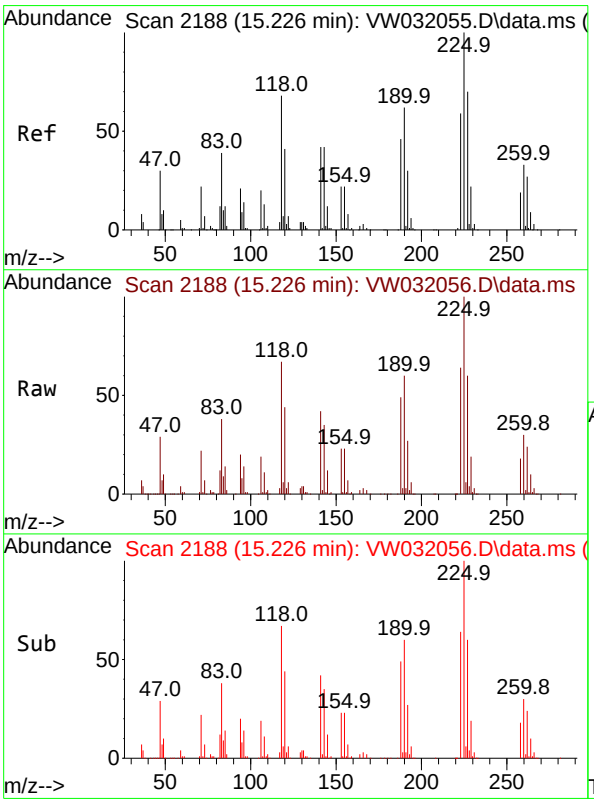
#93
1,2,4-Trichlorobenzene
Concen: 104.094 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

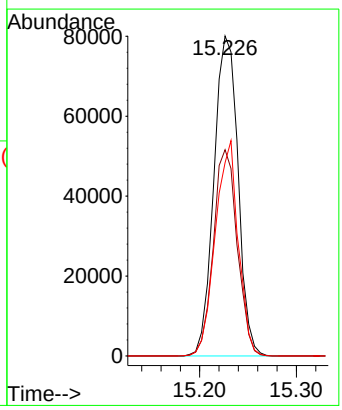


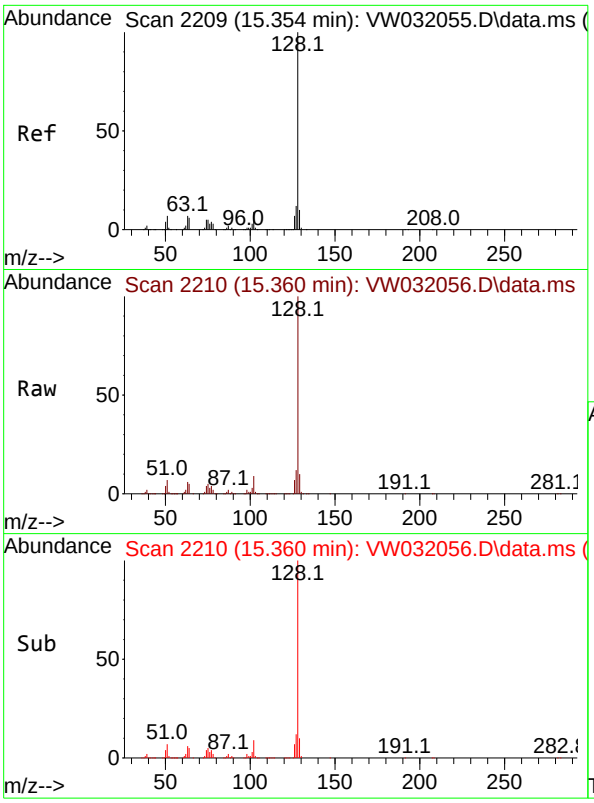


#94
Hexachlorobutadiene
Concen: 95.189 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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



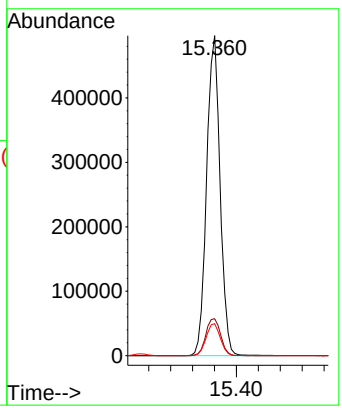


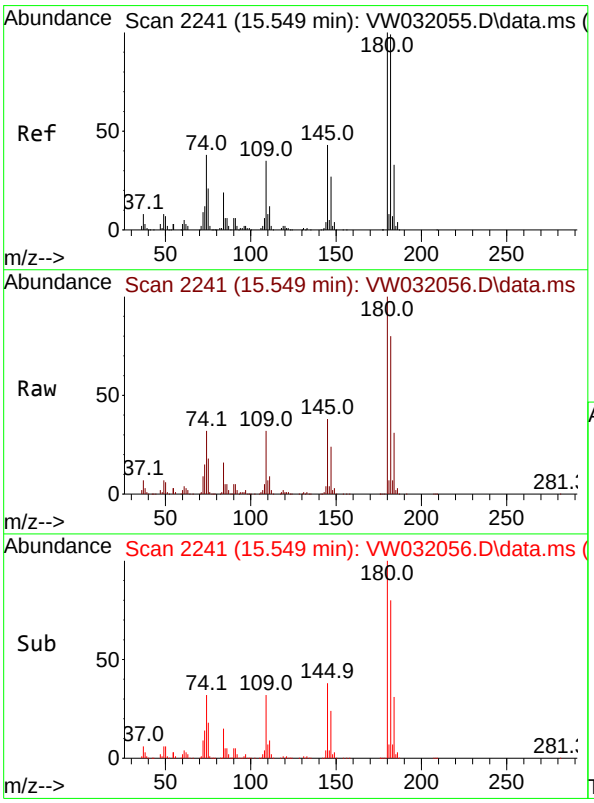
#95
Naphthalene
Concen: 105.533 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

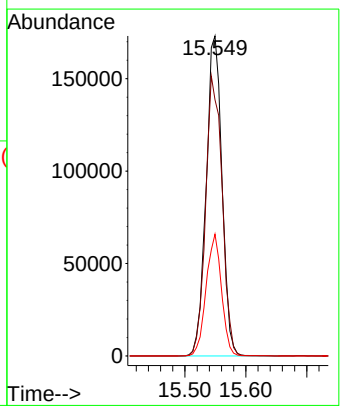




#96
1,2,3-Trichlorobenzene
Concen: 105.748 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

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

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)
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

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)

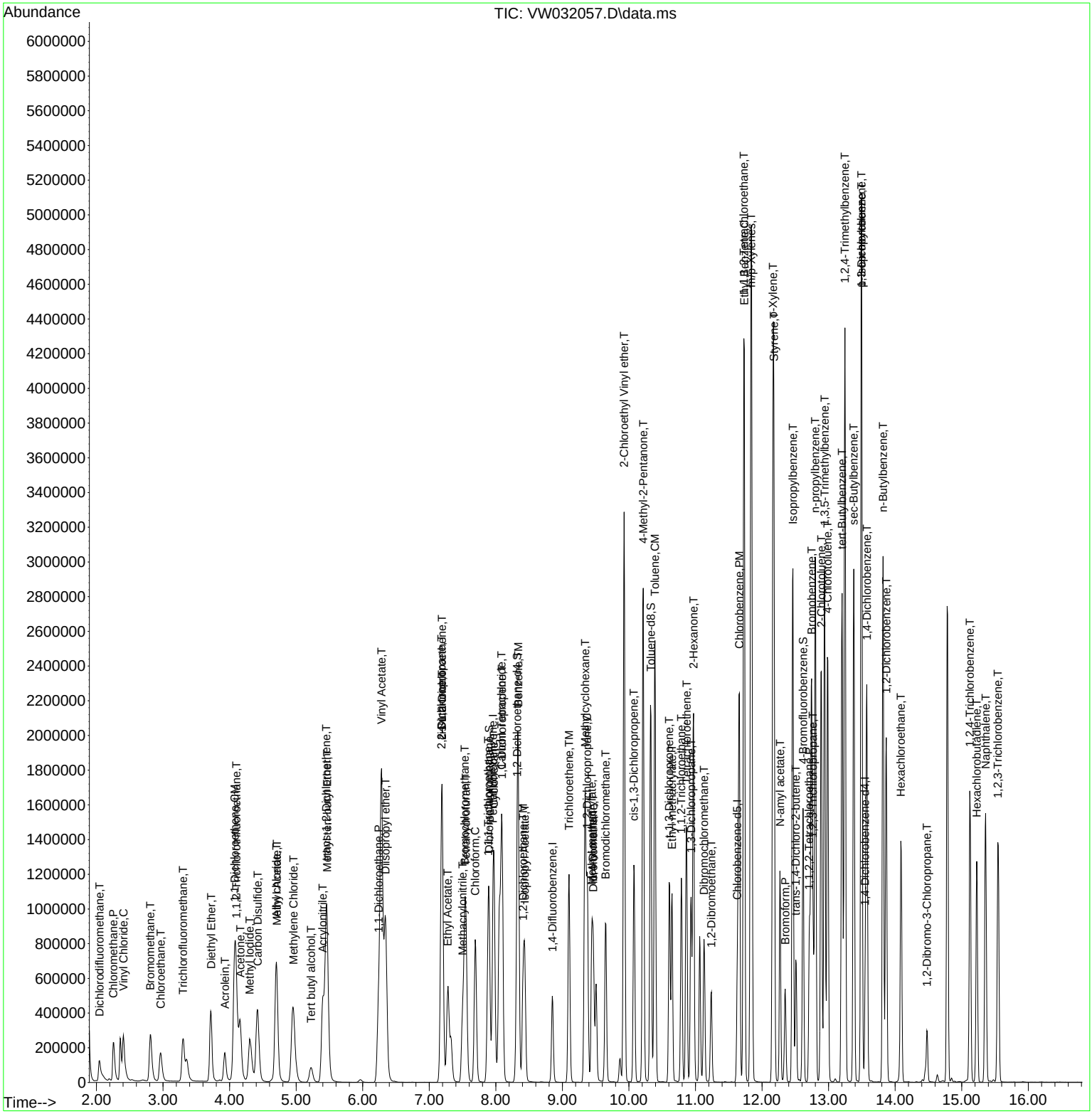
(#) = qualifier out of range (m) = manual integration (+) = signals summed

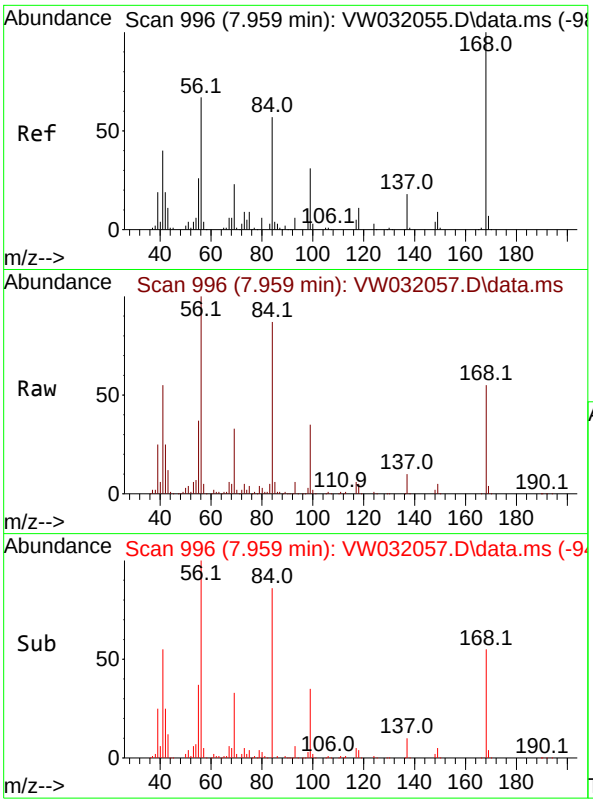
Quantitation Report (Not Reviewed)

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



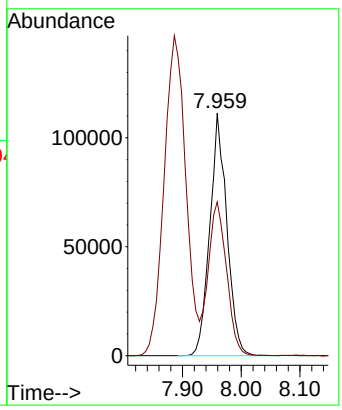


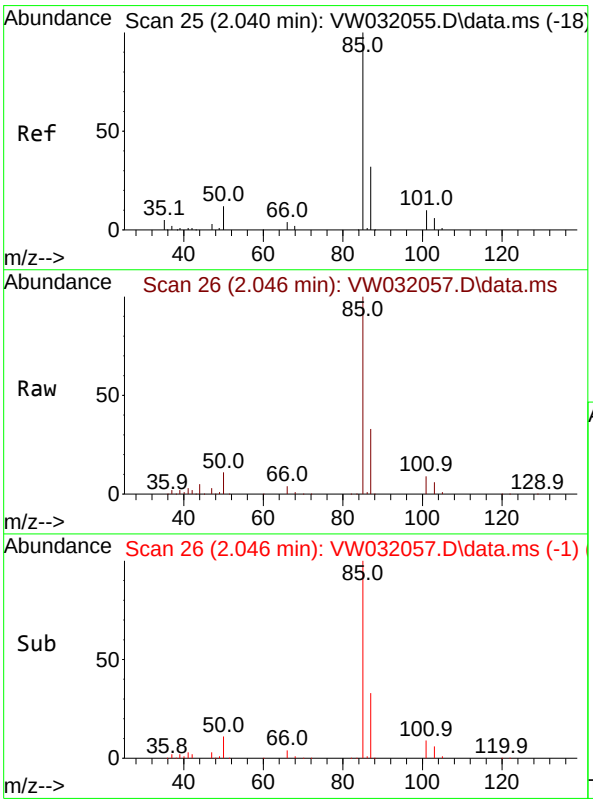
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 224613

Ion	Ratio	Lower	Upper
168	100		
99	63.4	56.0	84.0

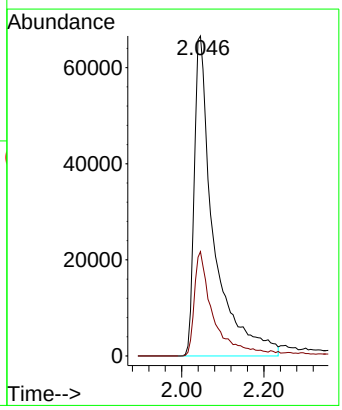


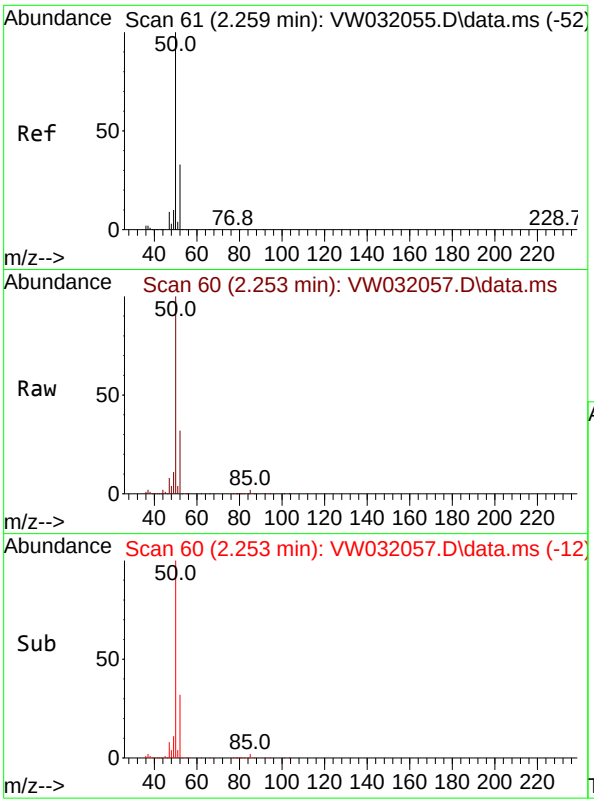


#2
Dichlorodifluoromethane
Concen: 136.294 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 85 Resp: 218953

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6



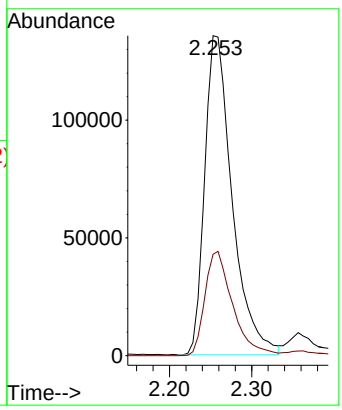


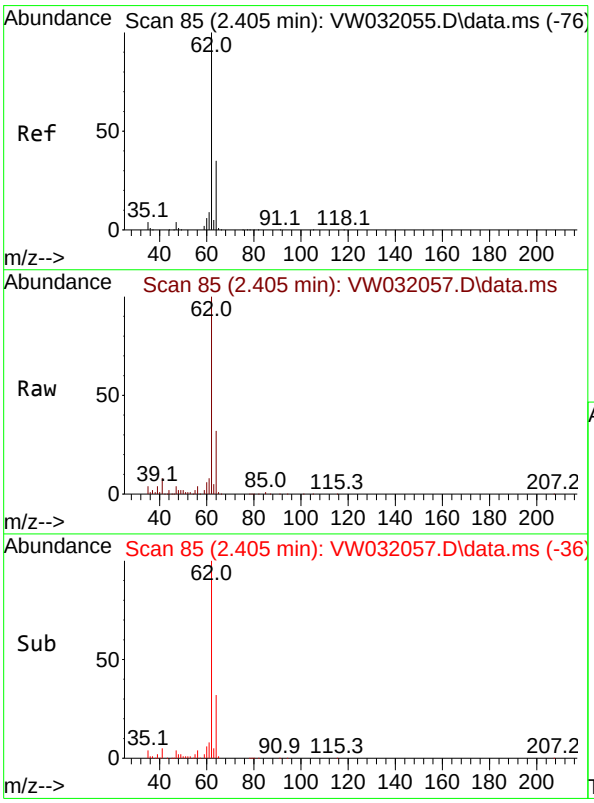
#3
Chloromethane
Concen: 145.923 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 315772

Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.6	39.8

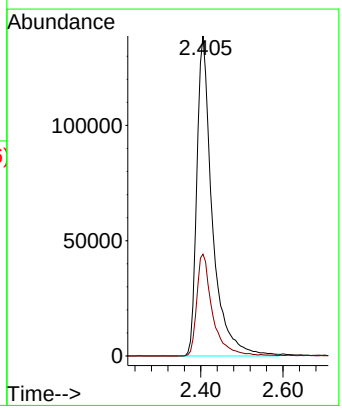


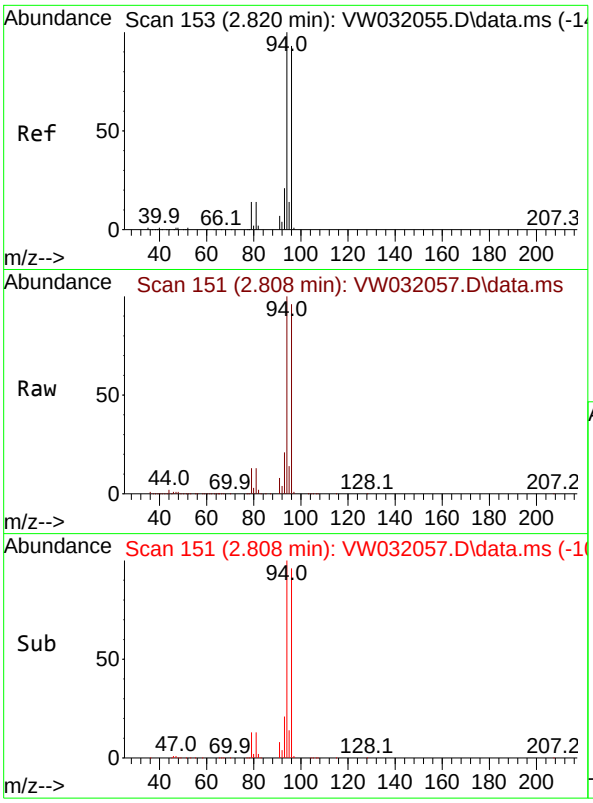


#4
Vinyl Chloride
Concen: 138.343 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 362119

Ion	Ratio	Lower	Upper
62	100		
64	31.8	27.8	41.6



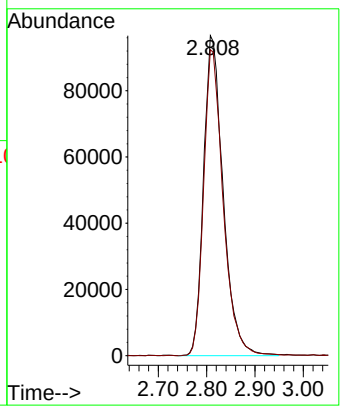


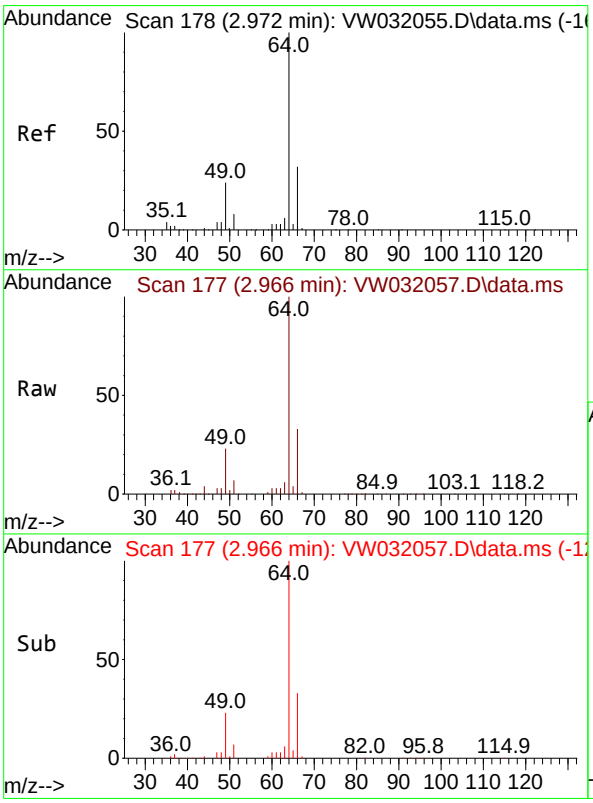
#5
Bromomethane
Concen: 138.413 ug/l
RT: 2.808 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 271810

Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.7	112.1

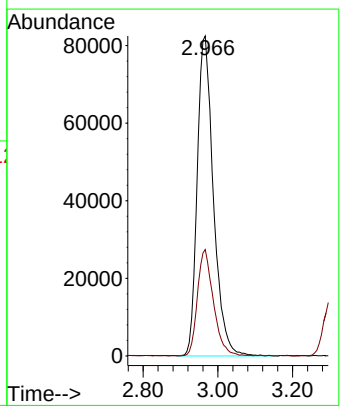


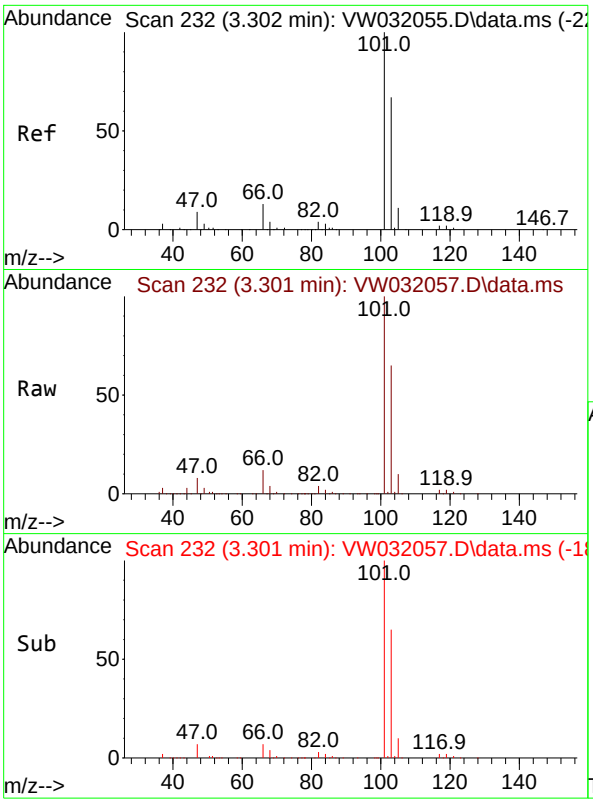


#6
Chloroethane
Concen: 143.117 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 64 Resp: 247890

Ion	Ratio	Lower	Upper
64	100		
66	33.2	26.0	39.0



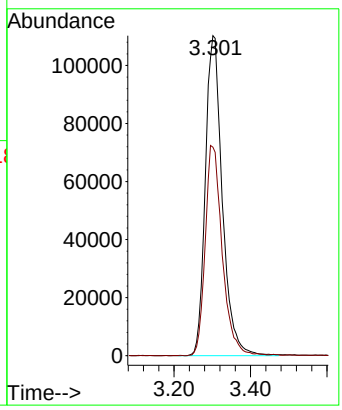


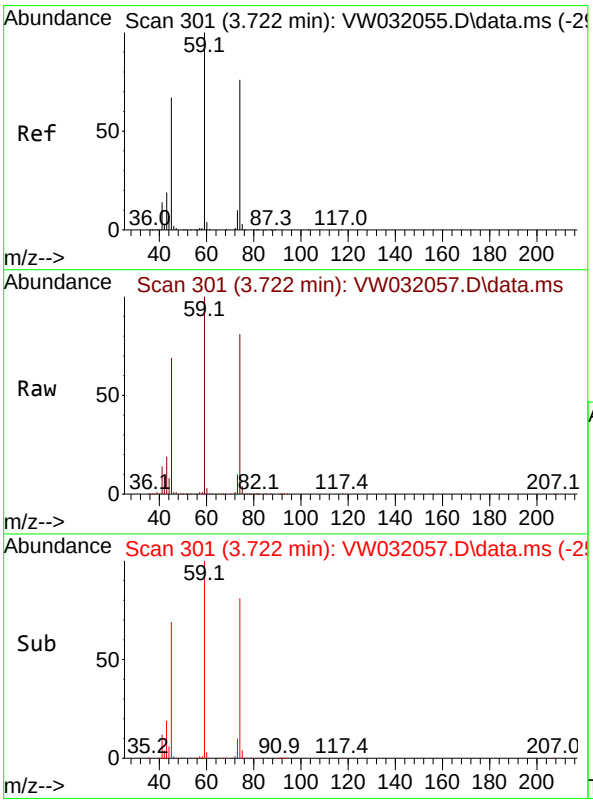
#7
Trichlorofluoromethane
Concen: 161.851 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 339384

Ion	Ratio	Lower	Upper
101	100		
103	65.1	53.4	80.0

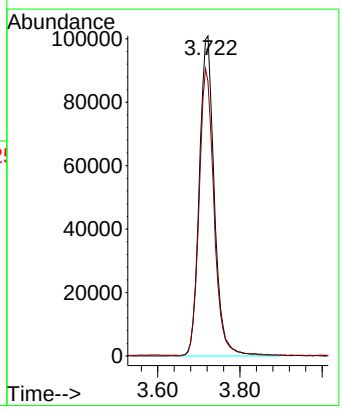


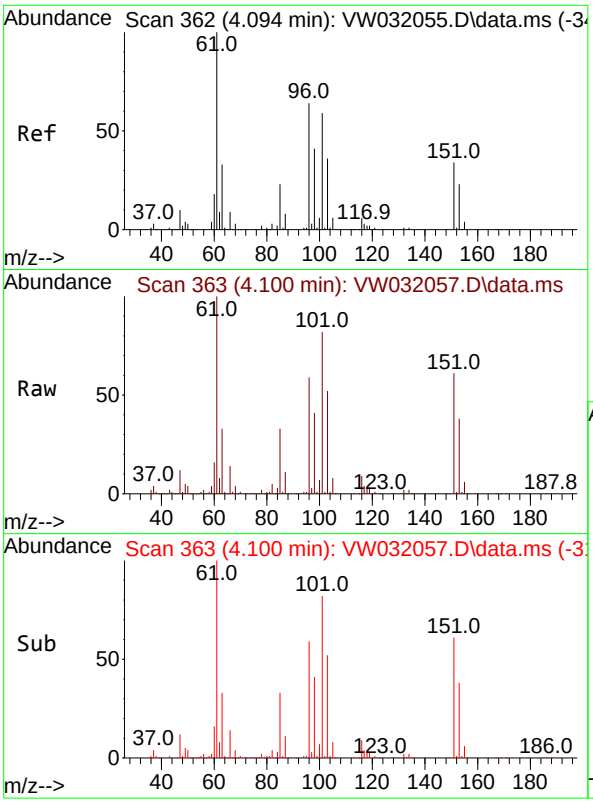


#8
Diethyl Ether
Concen: 148.178 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 74 Resp: 254566

Ion	Ratio	Lower	Upper
74	100		
45	89.1	45.4	136.2



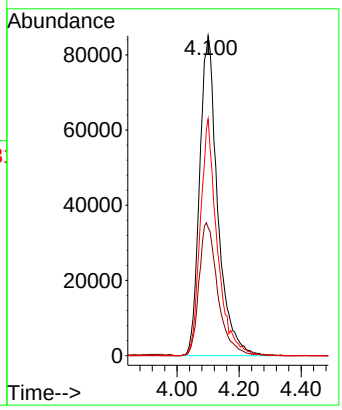


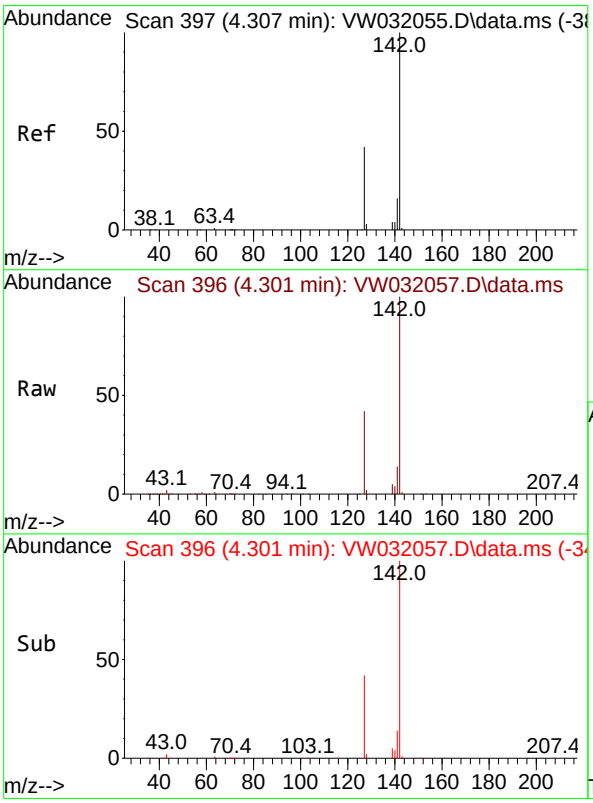
#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.957 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

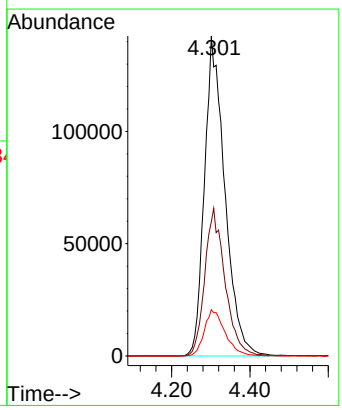


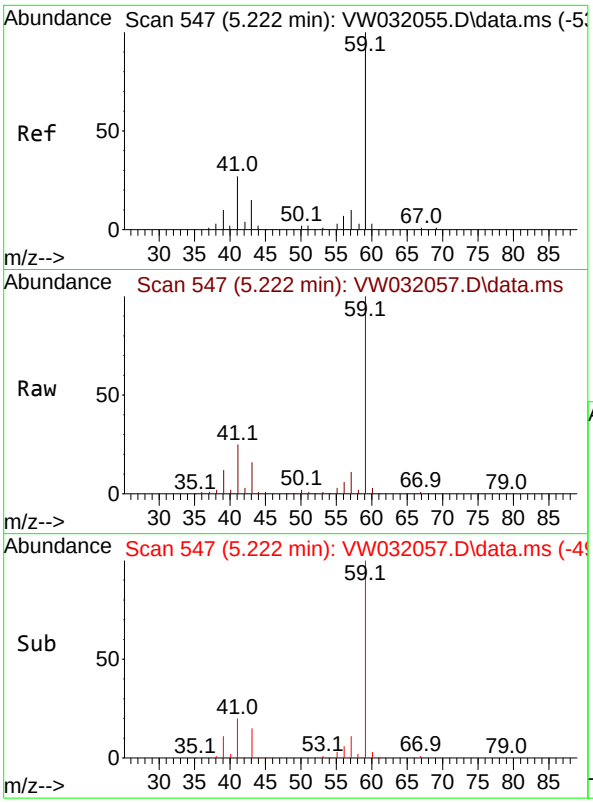


#10
Methyl Iodide
Concen: 146.812 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



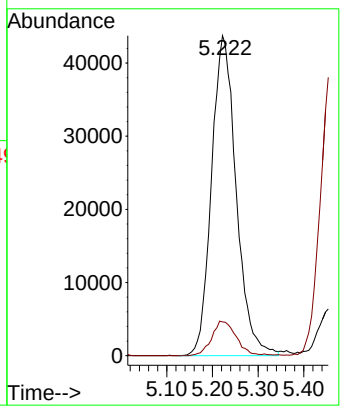


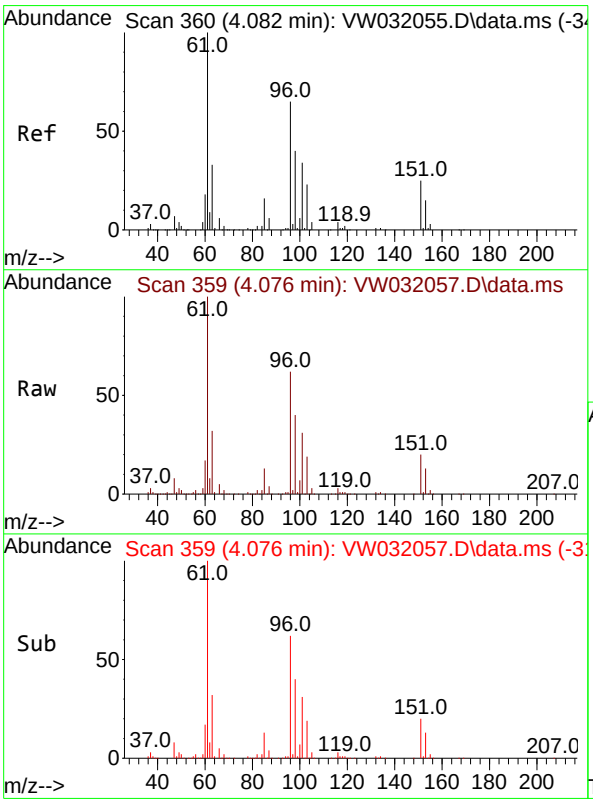
#11
Tert butyl alcohol
Concen: 780.336 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 164147

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.7	13.1

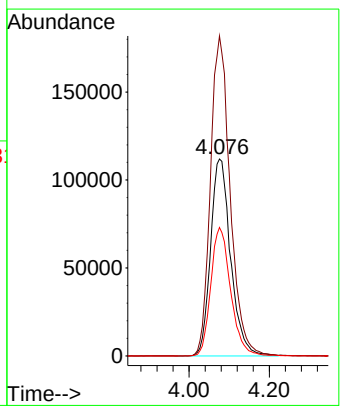


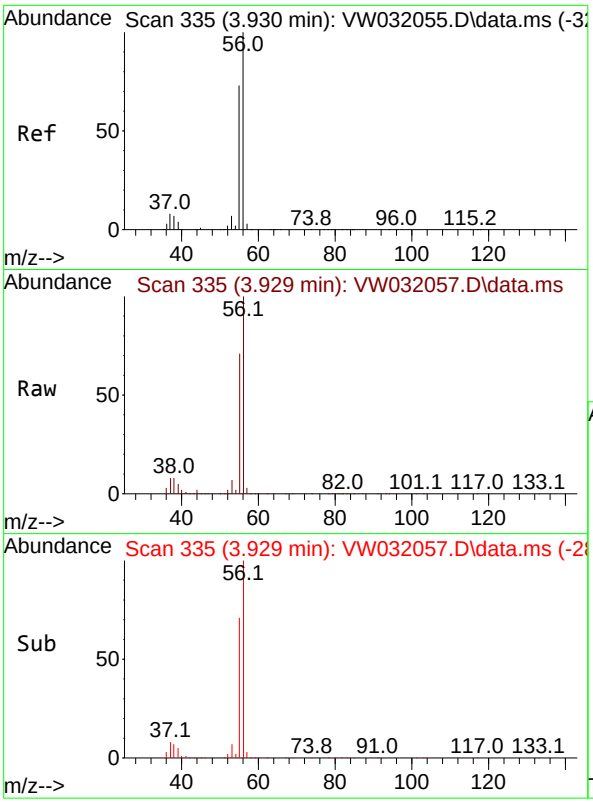


#12
1,1-Dichloroethene
Concen: 142.642 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



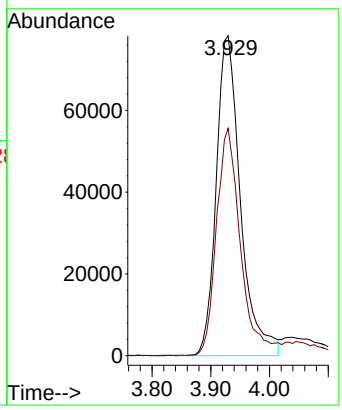


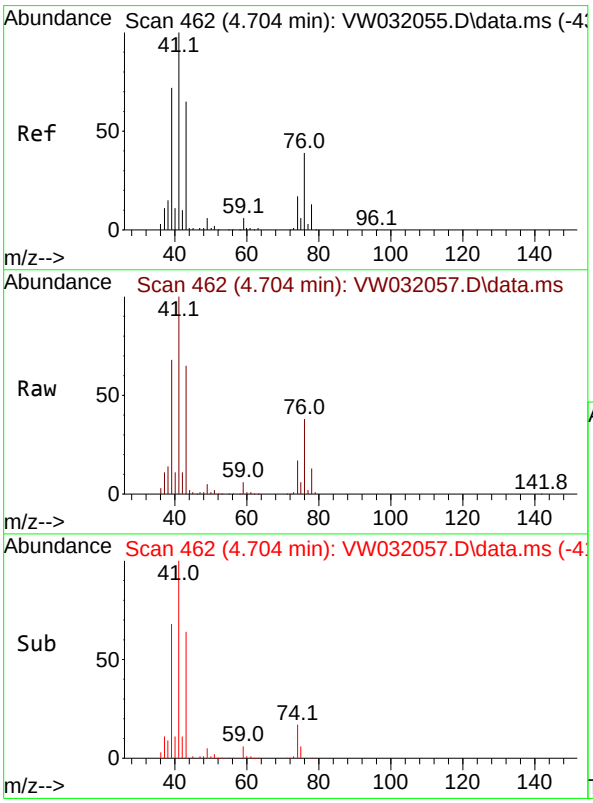
#13
Acrolein
Concen: 671.009 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 224901

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.4	83.2

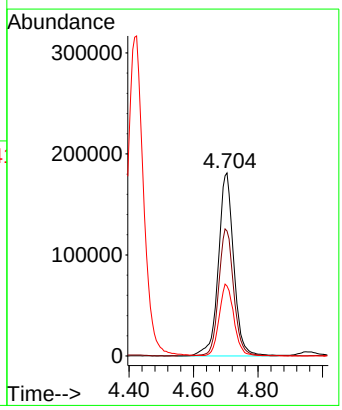


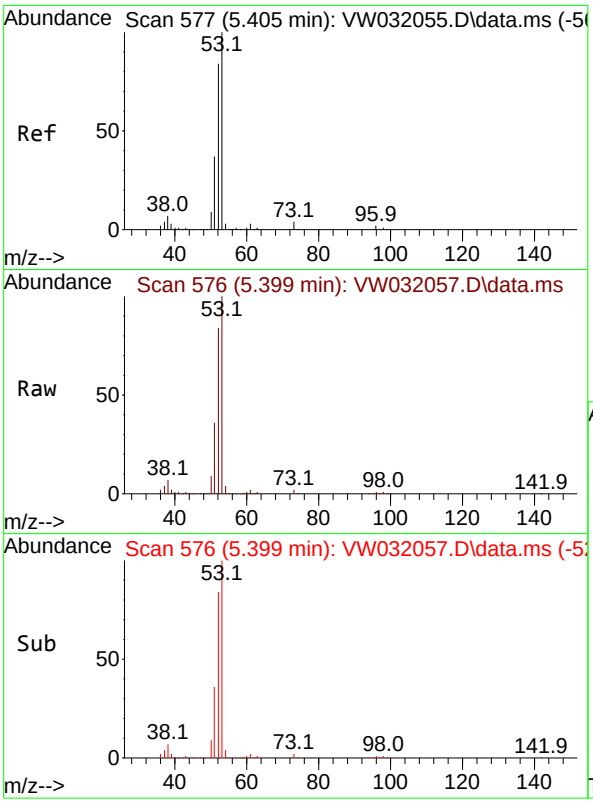


#14
Allyl chloride
Concen: 151.415 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



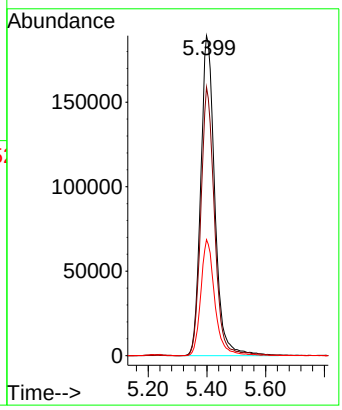


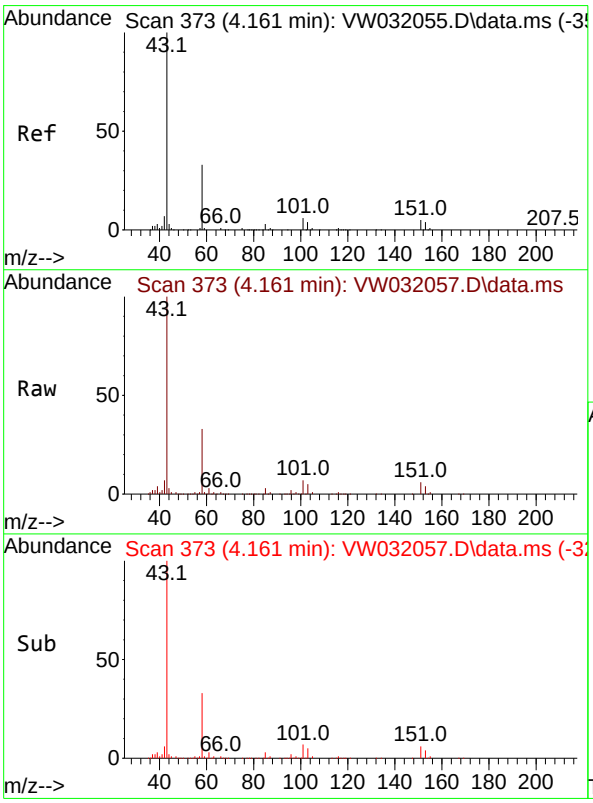
#15
Acrylonitrile
Concen: 769.843 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

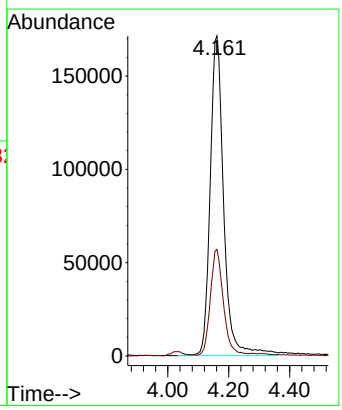


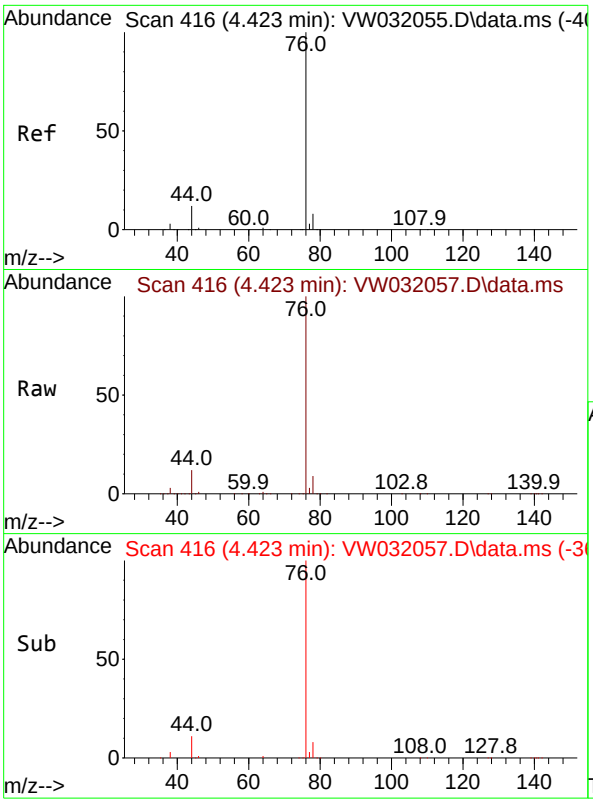


#16
Acetone
Concen: 702.794 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 528585

Ion	Ratio	Lower	Upper
43	100		
58	32.9	26.6	39.8



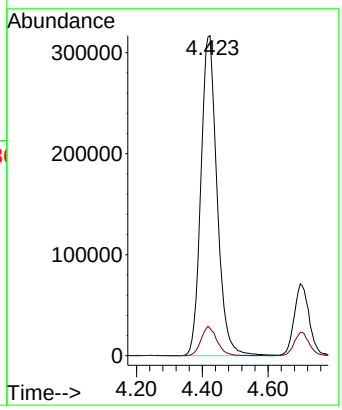


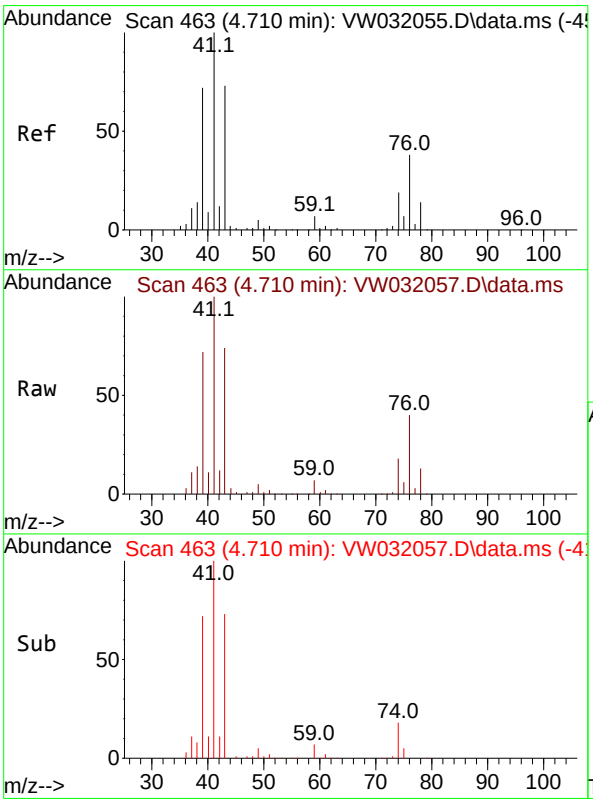
#17
Carbon Disulfide
Concen: 147.872 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1081188

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.4	9.6

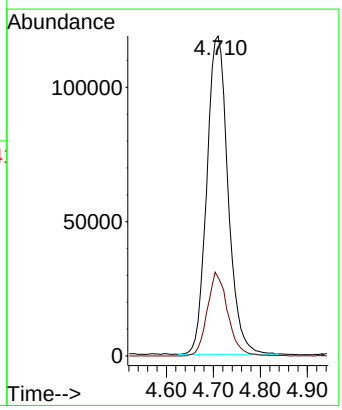


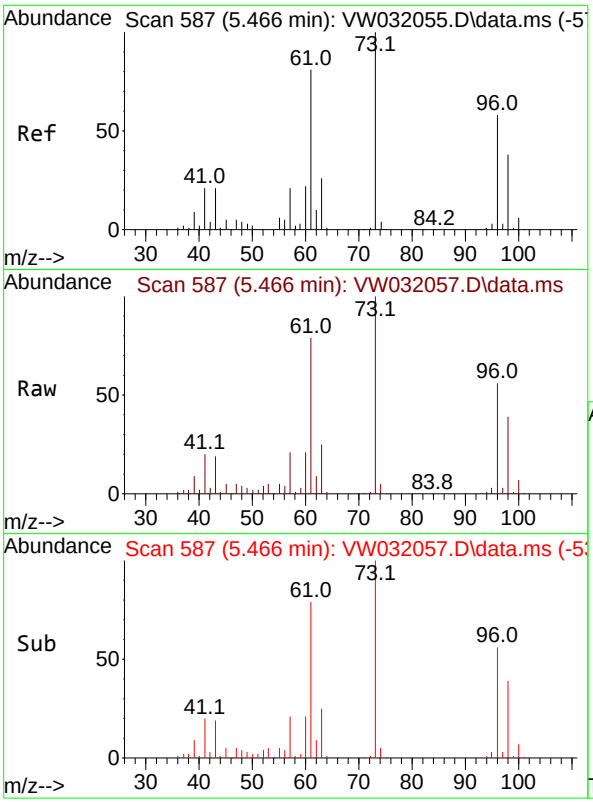


#18
Methyl Acetate
Concen: 155.895 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 371024

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.6	31.0



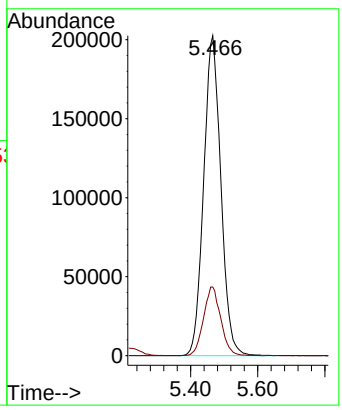


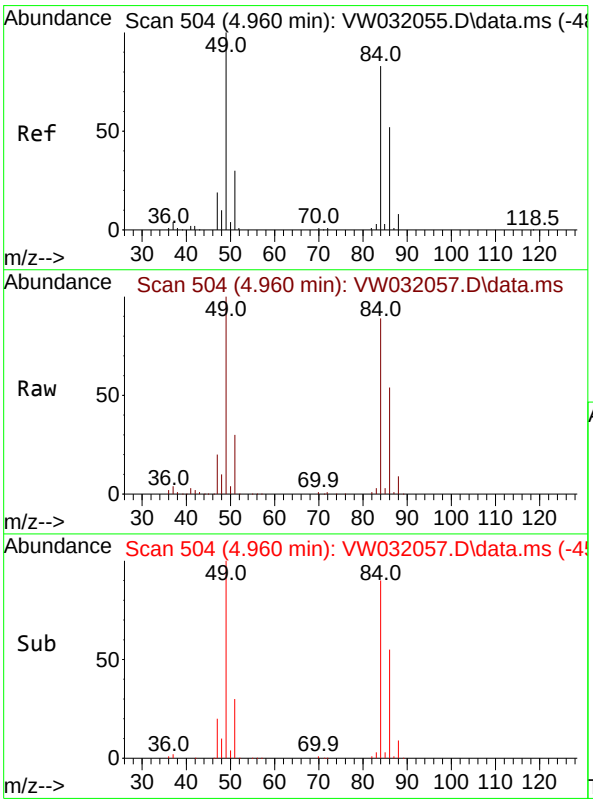
#19
Methyl tert-butyl Ether
Concen: 149.999 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 719923

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.2	25.8

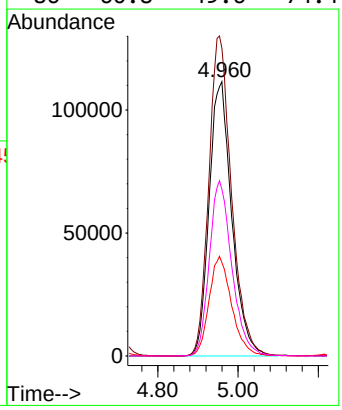


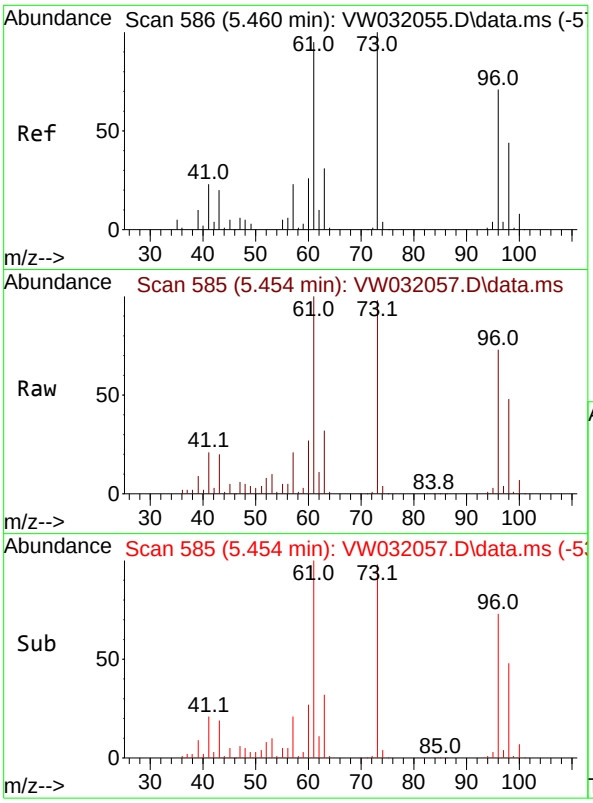


#20
Methylene Chloride
Concen: 125.744 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



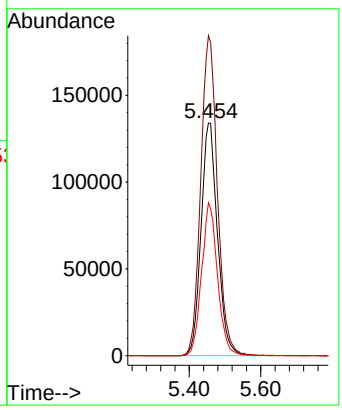


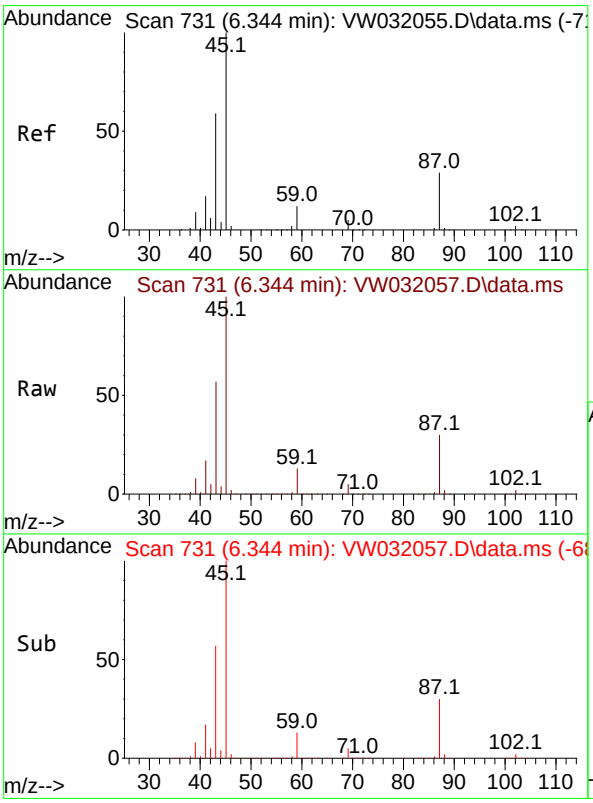
#21
trans-1,2-Dichloroethene
Concen: 147.794 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

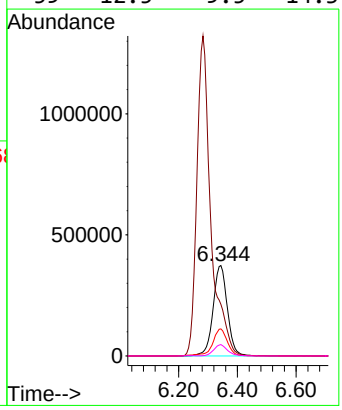


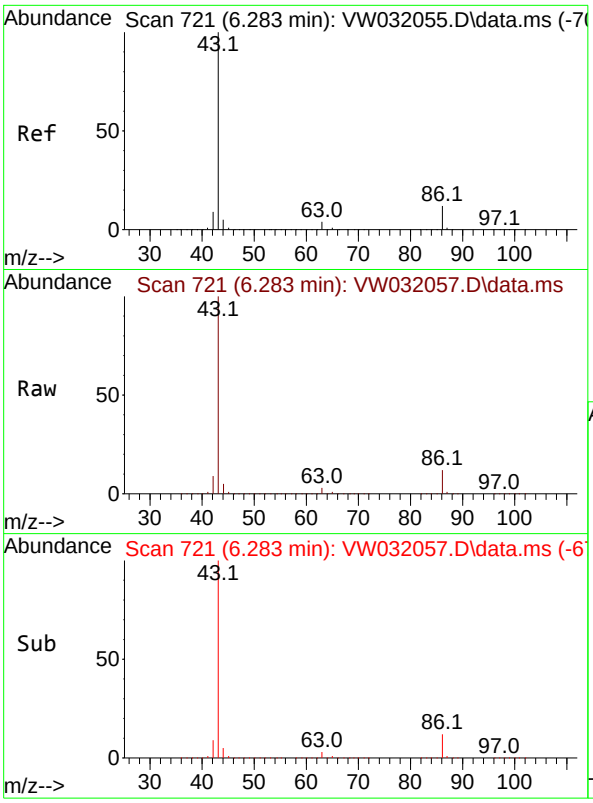


#22
Diisopropyl ether
Concen: 150.866 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



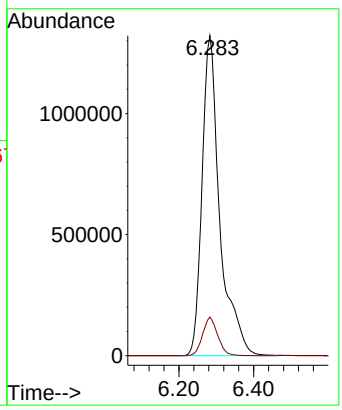


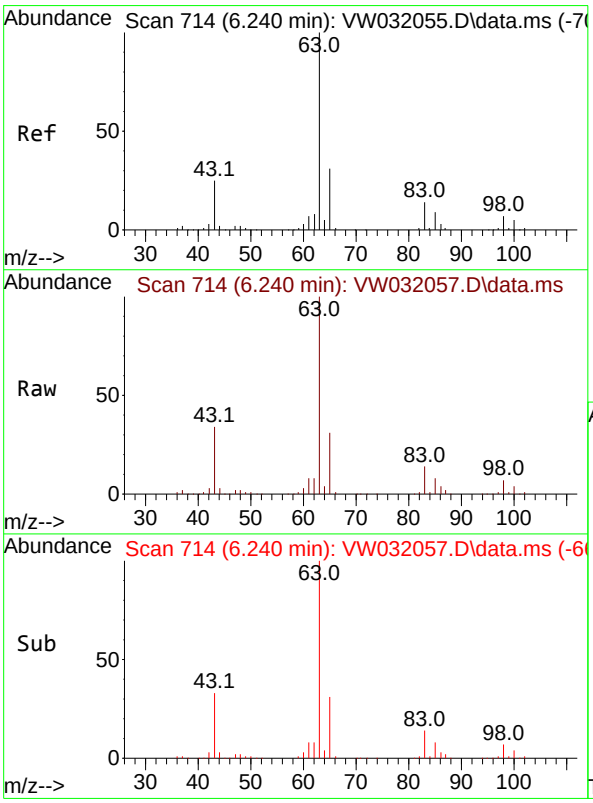
#23
Vinyl Acetate
Concen: 793.927 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 4356523

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.4	14.0

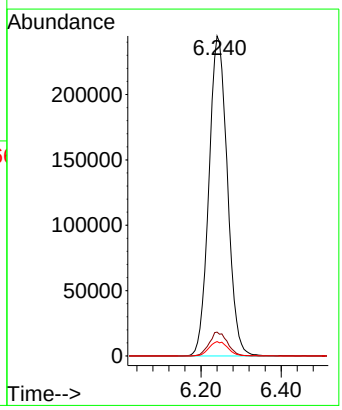


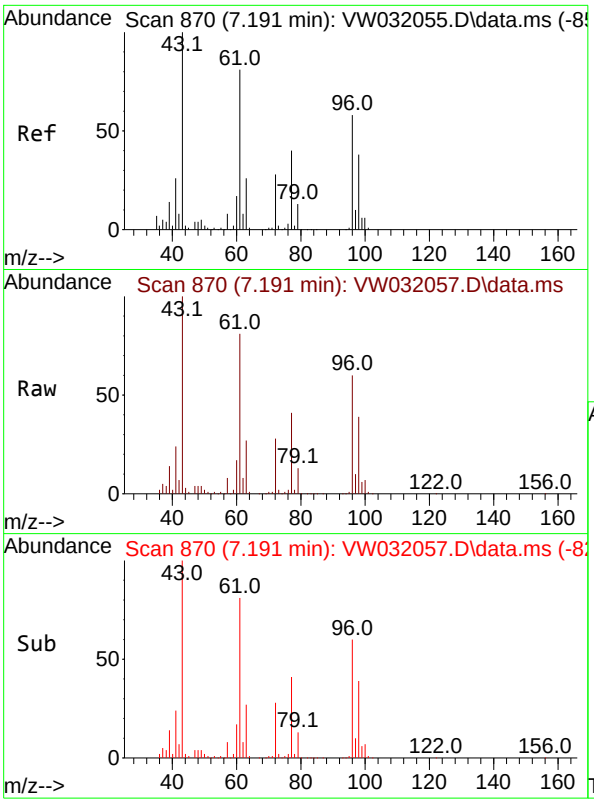


#24
1,1-Dichloroethane
Concen: 146.472 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



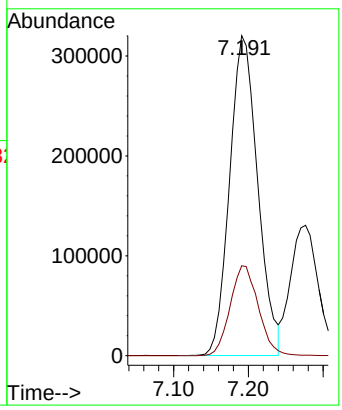


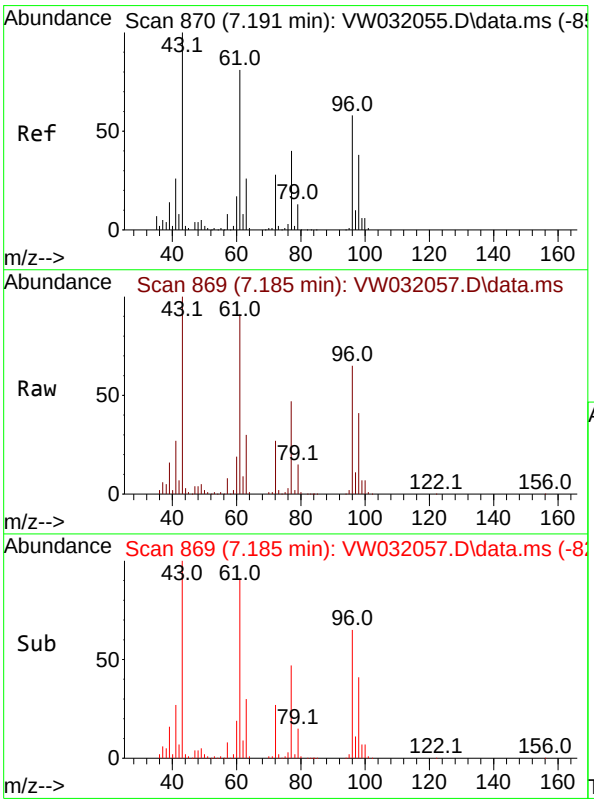
#25
2-Butanone
Concen: 783.936 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 837991

Ion	Ratio	Lower	Upper
43	100		
72	28.1	22.3	33.5

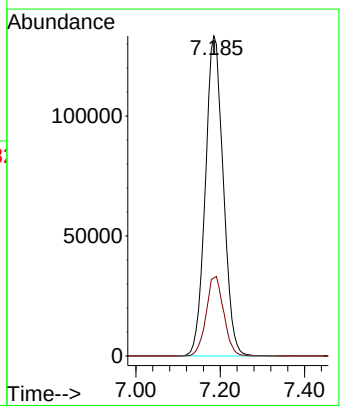


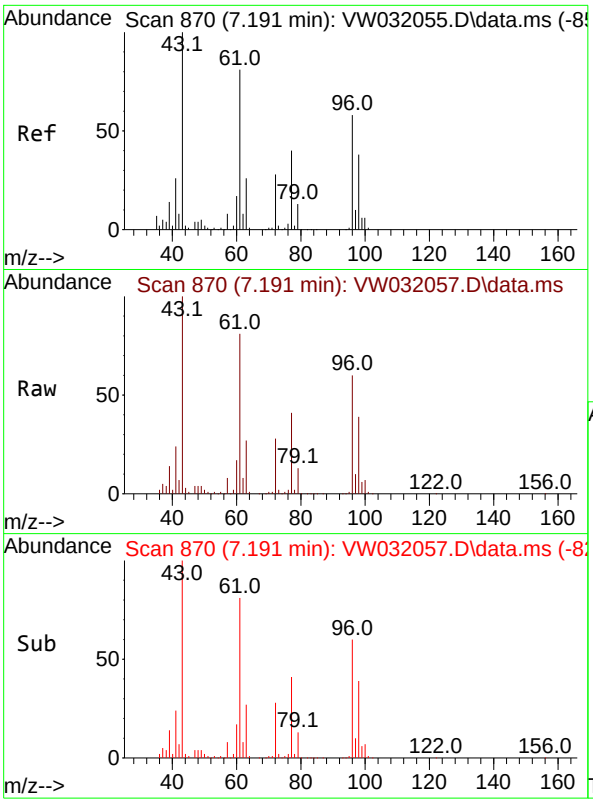


#26
2,2-Dichloropropane
Concen: 147.064 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 77 Resp: 393976

Ion	Ratio	Lower	Upper
77	100		
97	24.4	12.3	36.9



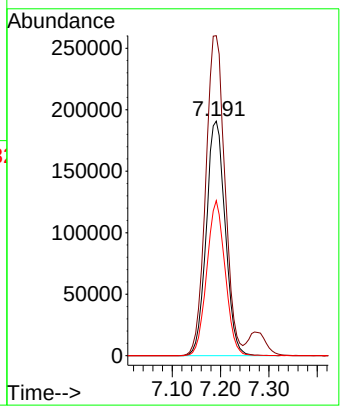


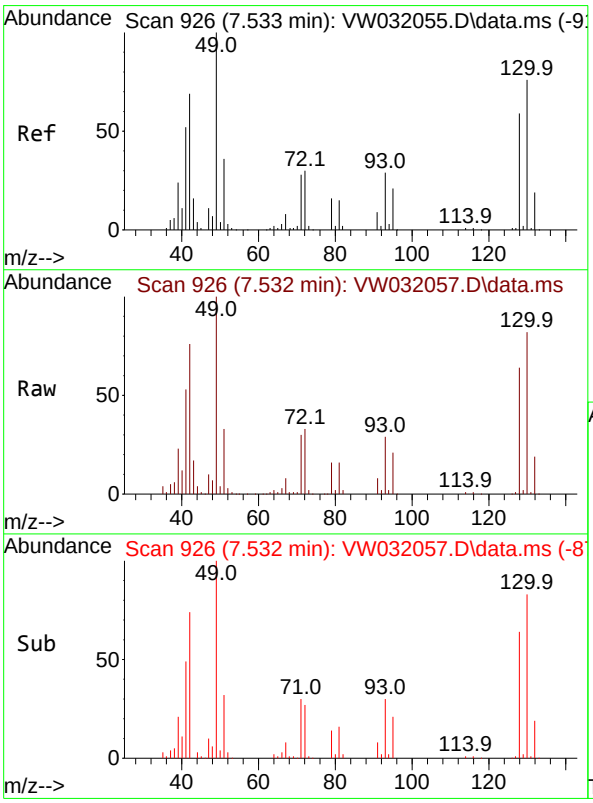
#27
cis-1,2-Dichloroethene
Concen: 153.420 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

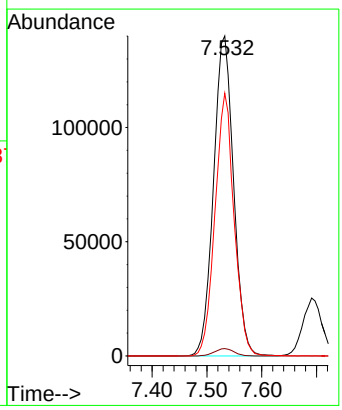


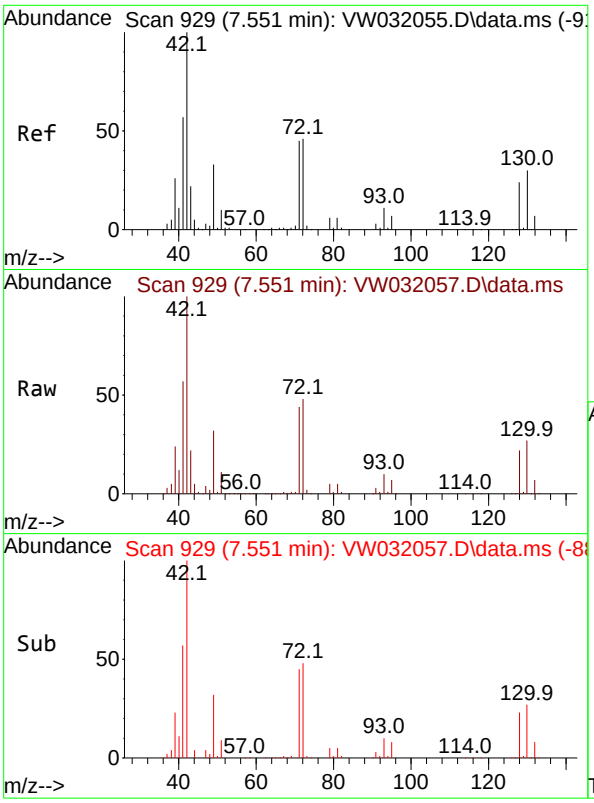


#28
Bromochloromethane
Concen: 146.781 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



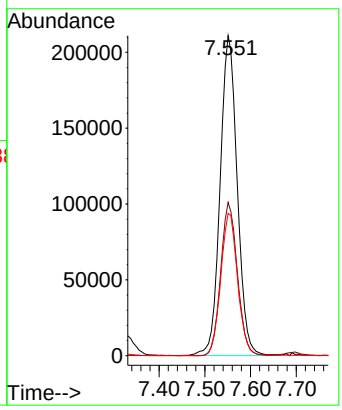


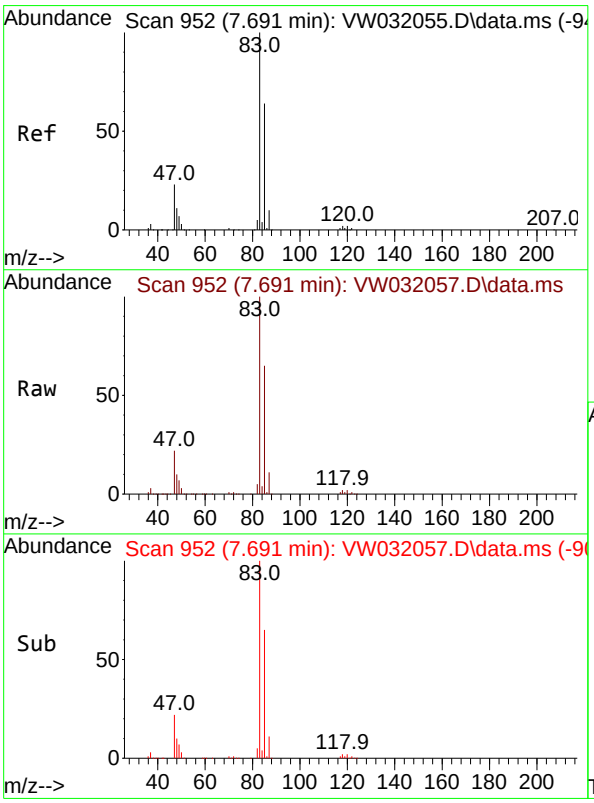
#29
Tetrahydrofuran
Concen: 779.054 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

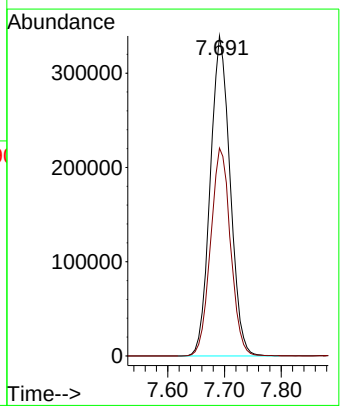


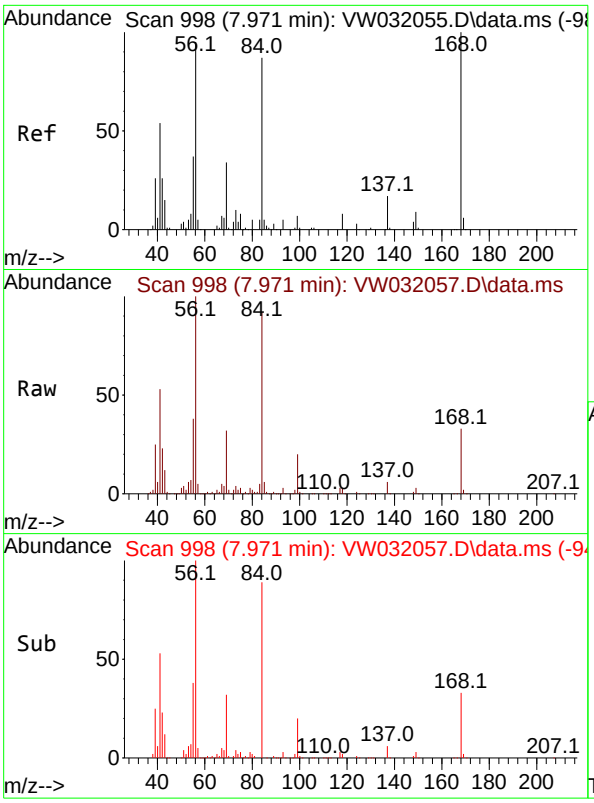


#30
Chloroform
Concen: 145.528 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 823850

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.0	76.4



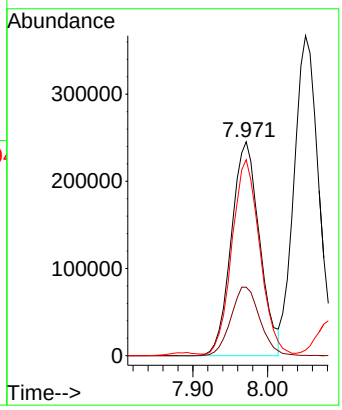


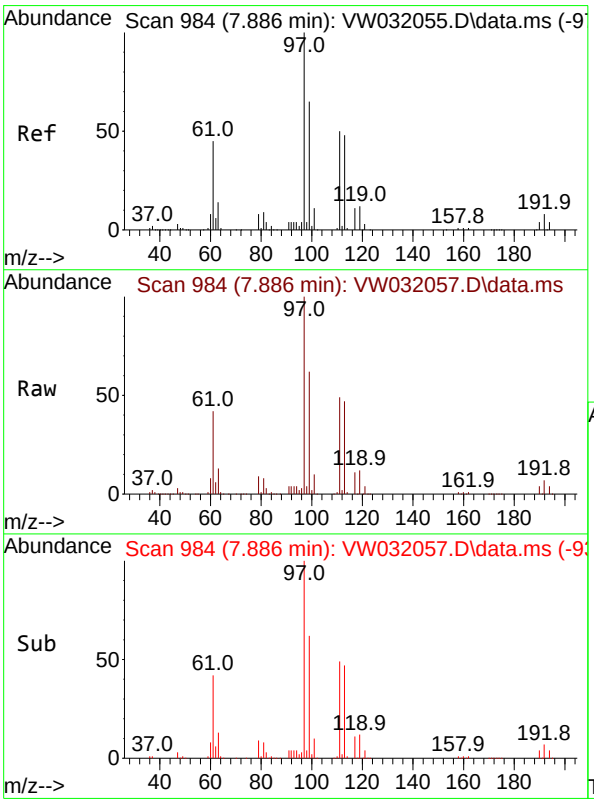
#31
Cyclohexane
Concen: 139.490 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

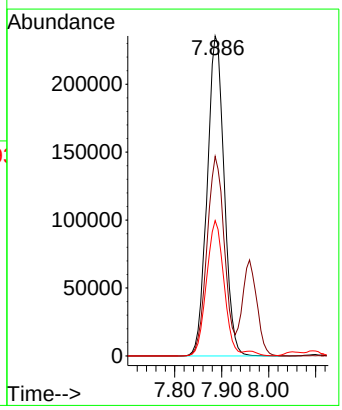


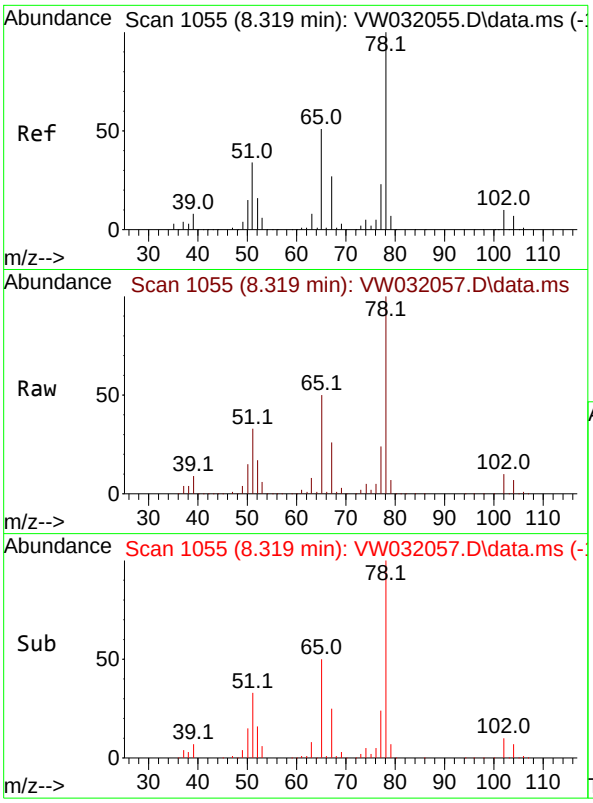


#32
1,1,1-Trichloroethane
Concen: 143.816 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



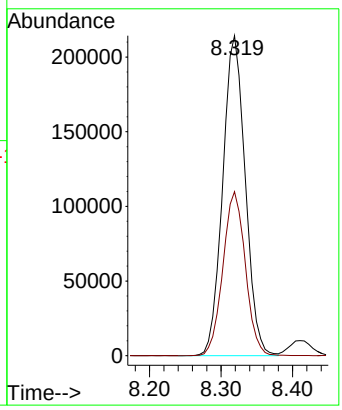


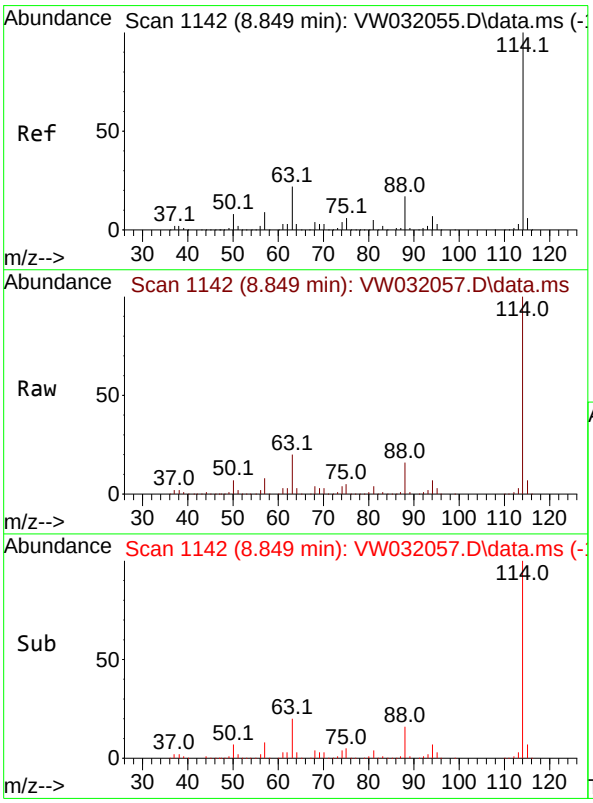
#33
1,2-Dichloroethane-d4
Concen: 144.584 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 469688

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4

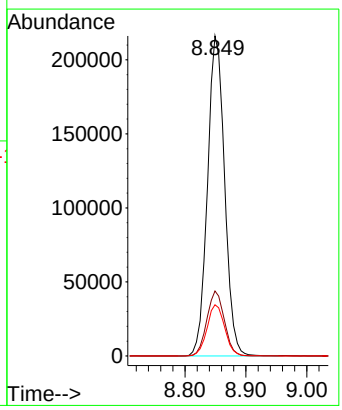


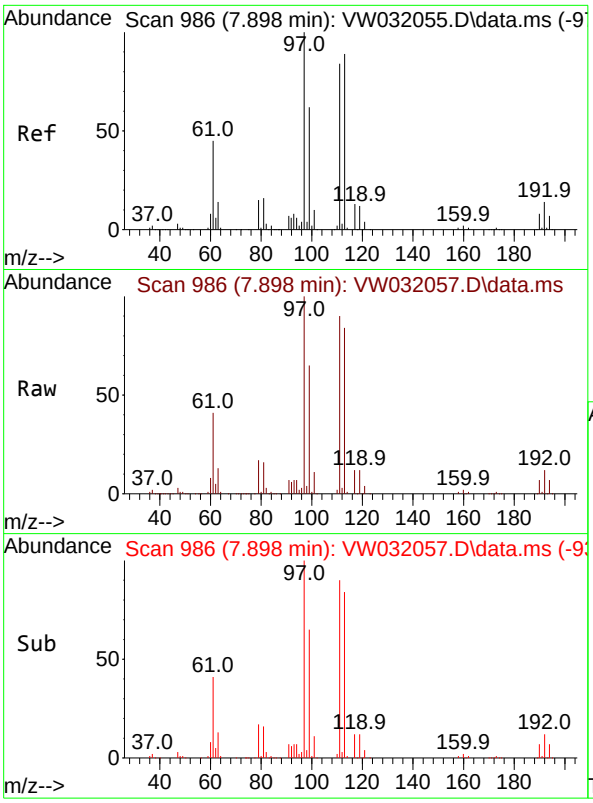


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



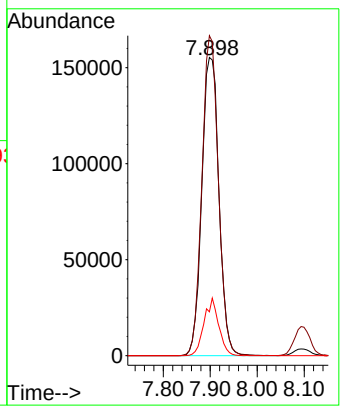


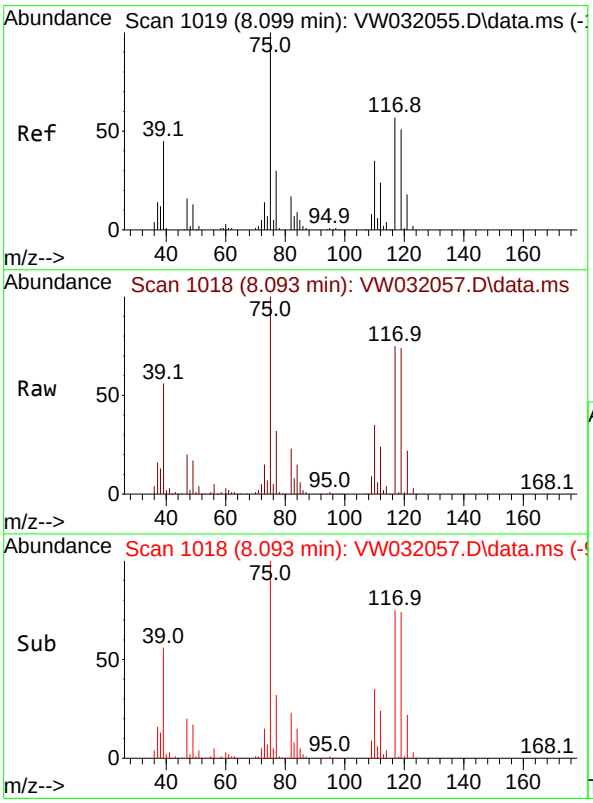
#35
Dibromofluoromethane
Concen: 144.207 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

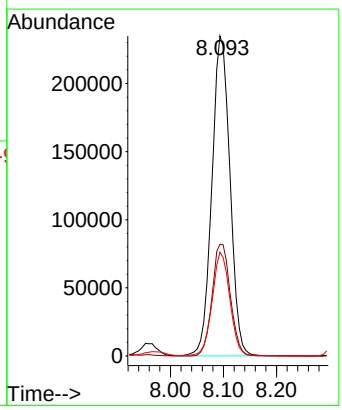


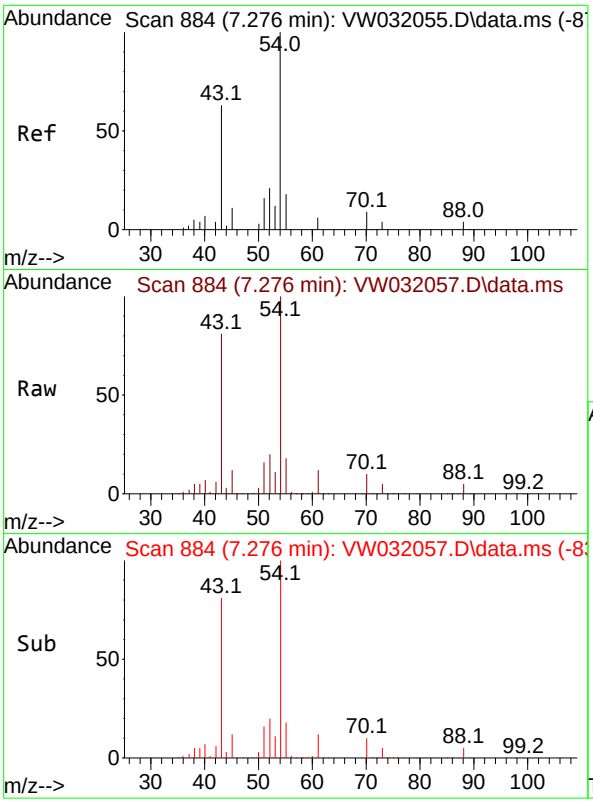


#36
1,1-Dichloropropene
Concen: 144.659 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



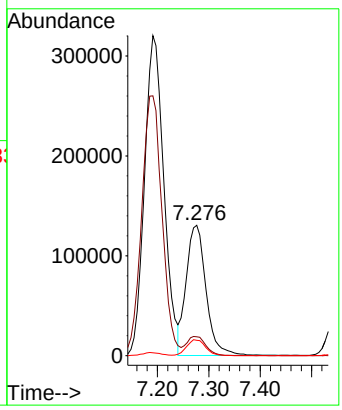


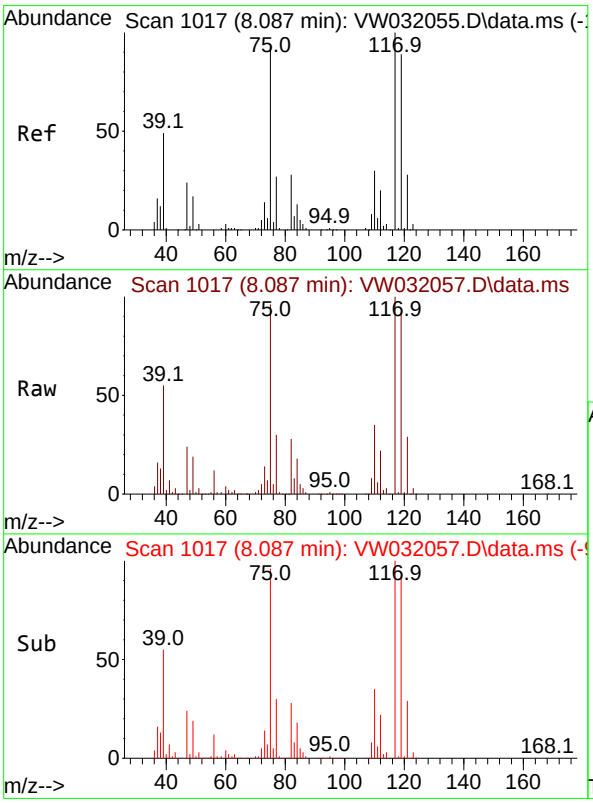
#37
Ethyl Acetate
Concen: 154.109 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

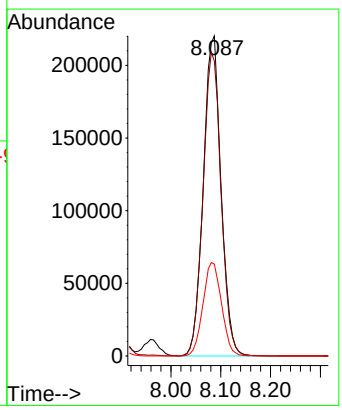


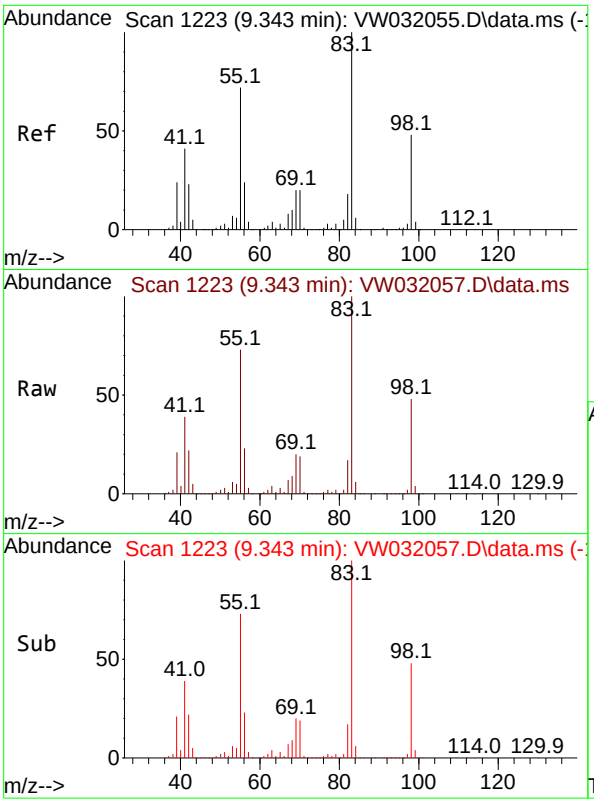


#38
Carbon Tetrachloride
Concen: 146.799 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



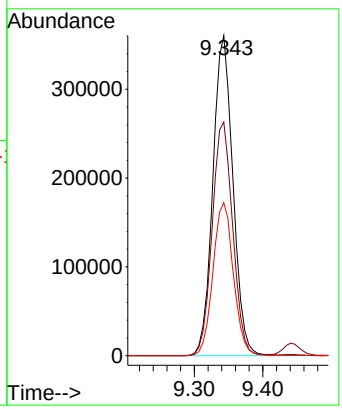


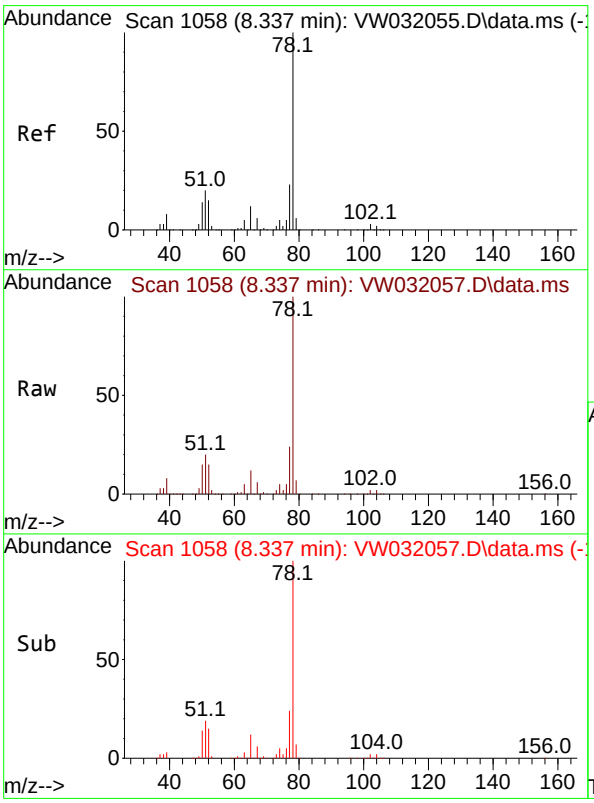
#39
Methylcyclohexane
Concen: 156.286 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

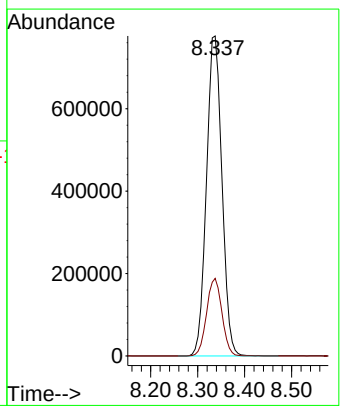


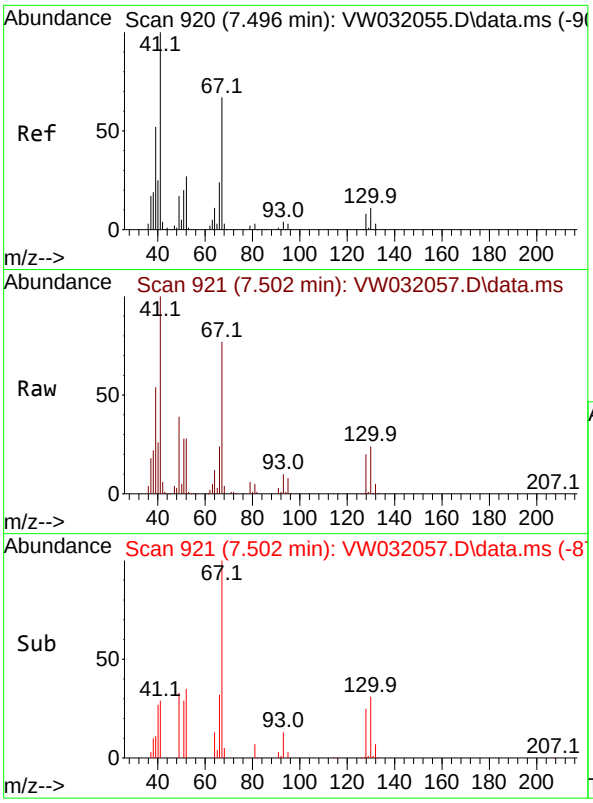


#40
Benzene
Concen: 148.159 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 78 Resp: 1770706

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.4	27.6



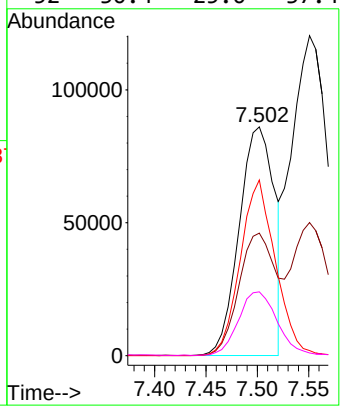


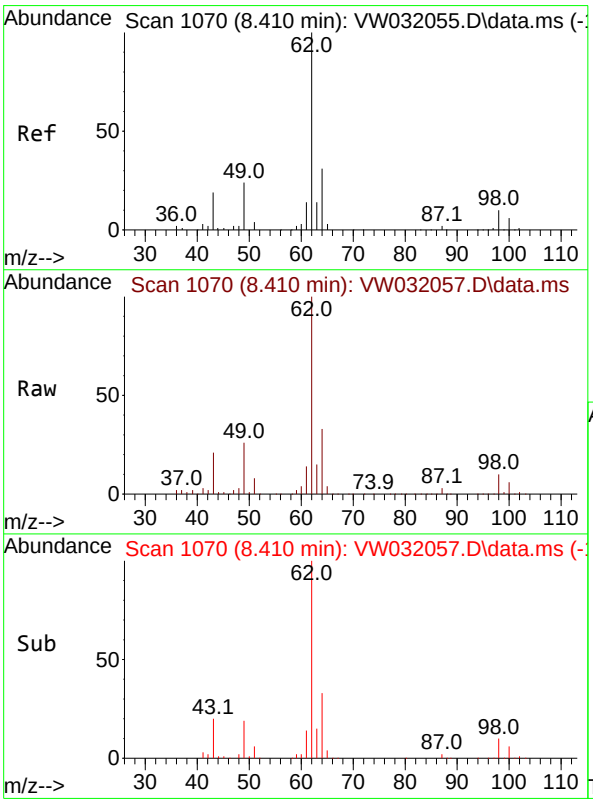
#41
Methacrylonitrile
Concen: 160.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

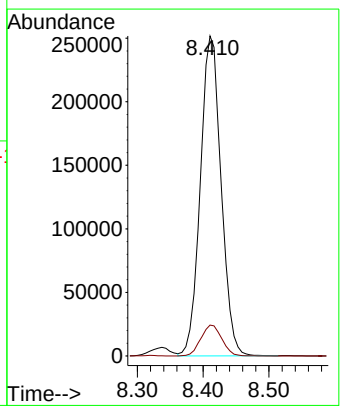


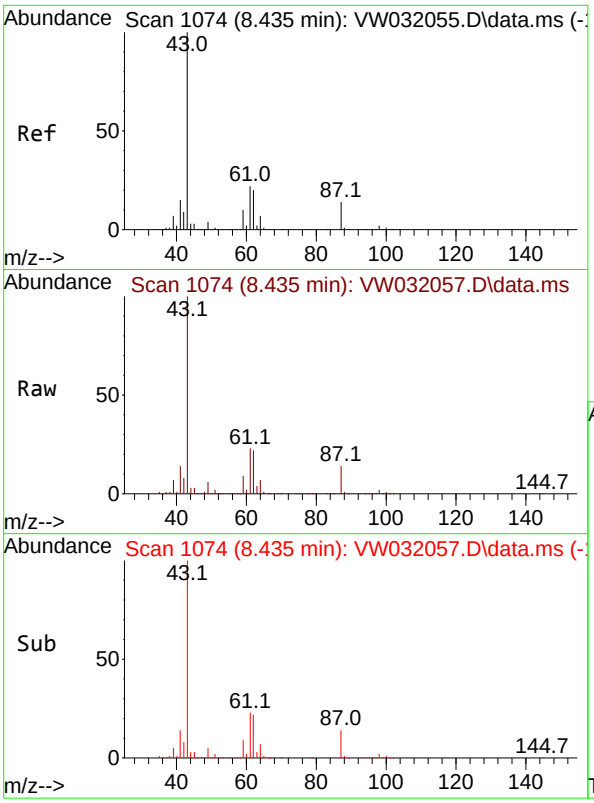


#42
1,2-Dichloroethane
Concen: 144.388 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 552184

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.8



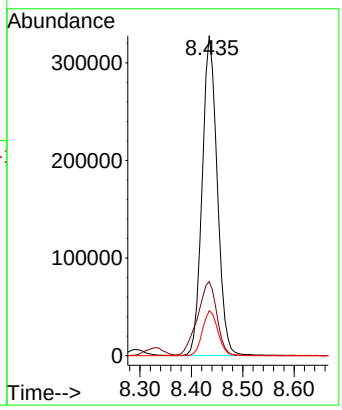


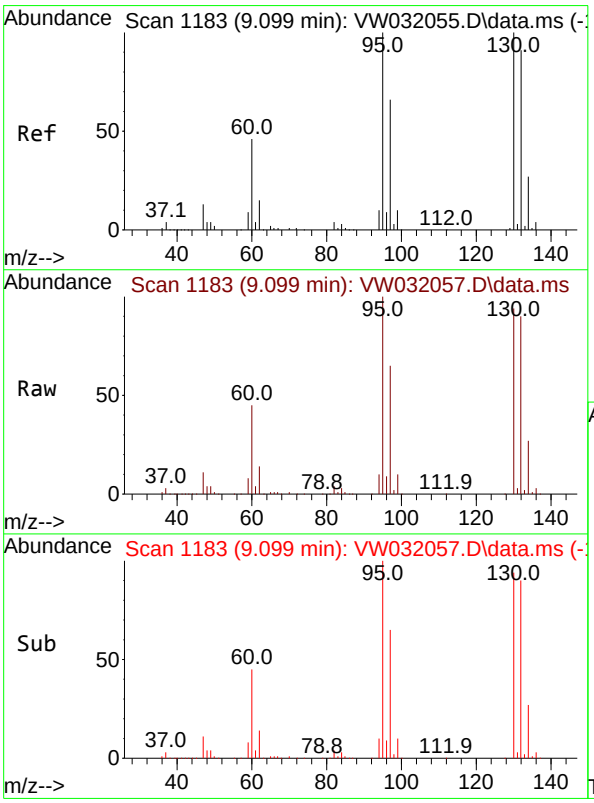
#43
Isopropyl Acetate
Concen: 159.788 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

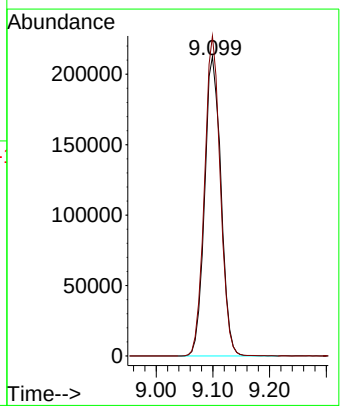


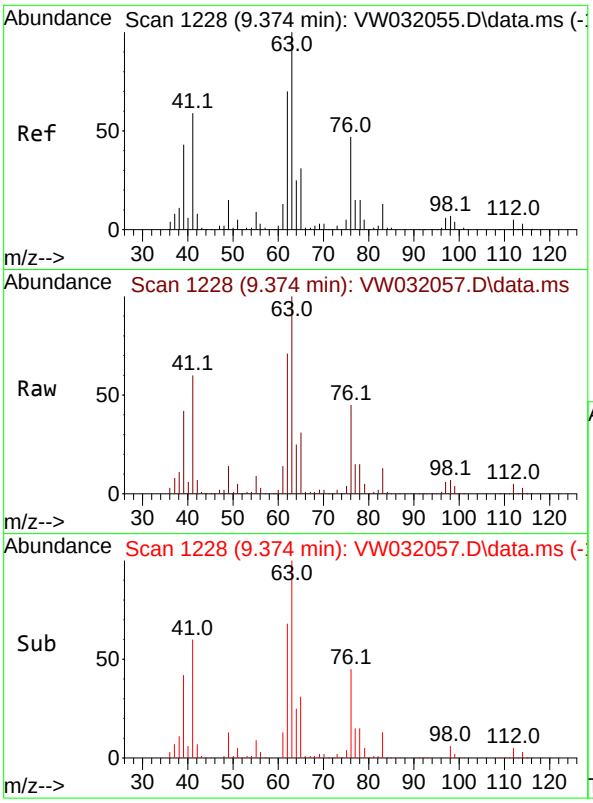


#44
Trichloroethene
Concen: 149.281 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:130 Resp: 424873

Ion	Ratio	Lower	Upper
130	100		
95	106.9	0.0	200.6



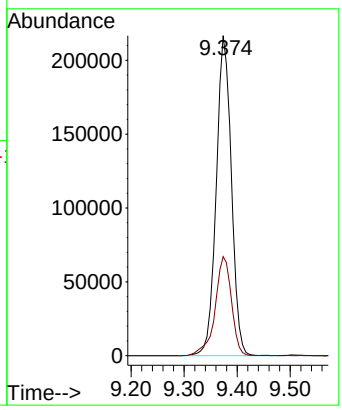


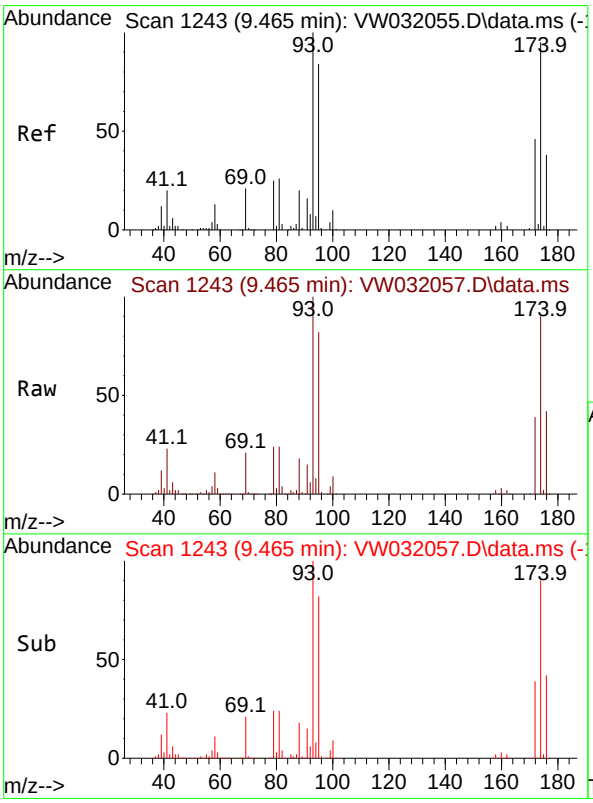
#45
1,2-Dichloropropane
Concen: 148.679 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 429280

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.6	36.8

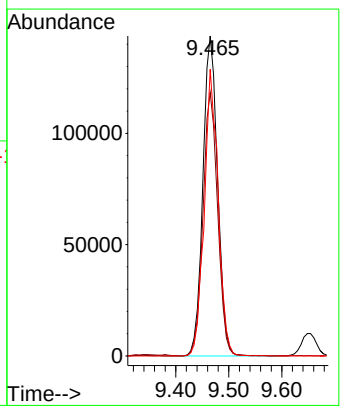


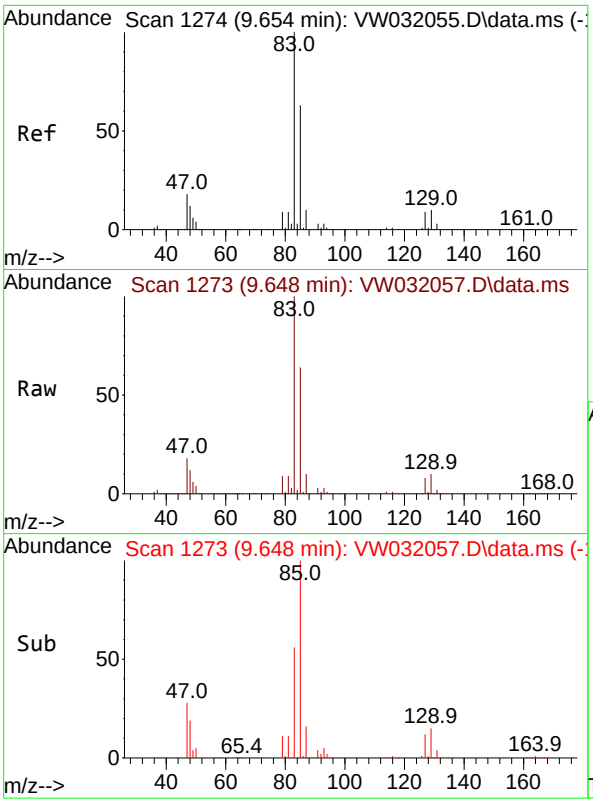


#46
Dibromomethane
Concen: 148.678 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



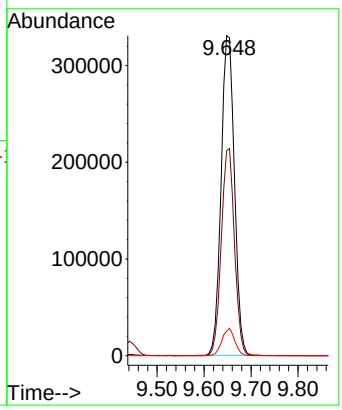


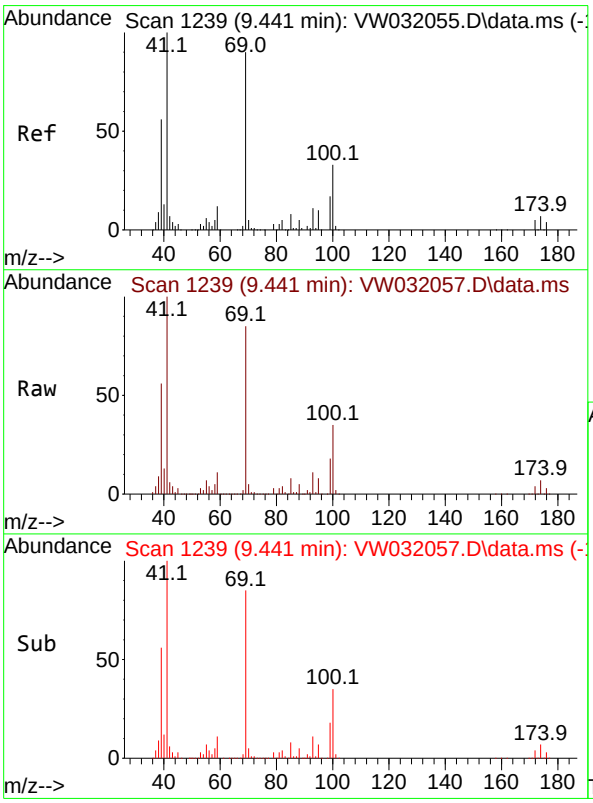
#47
Bromodichloromethane
Concen: 152.185 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

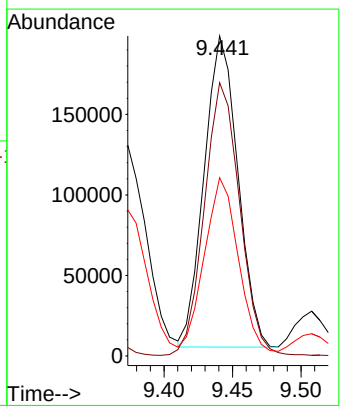


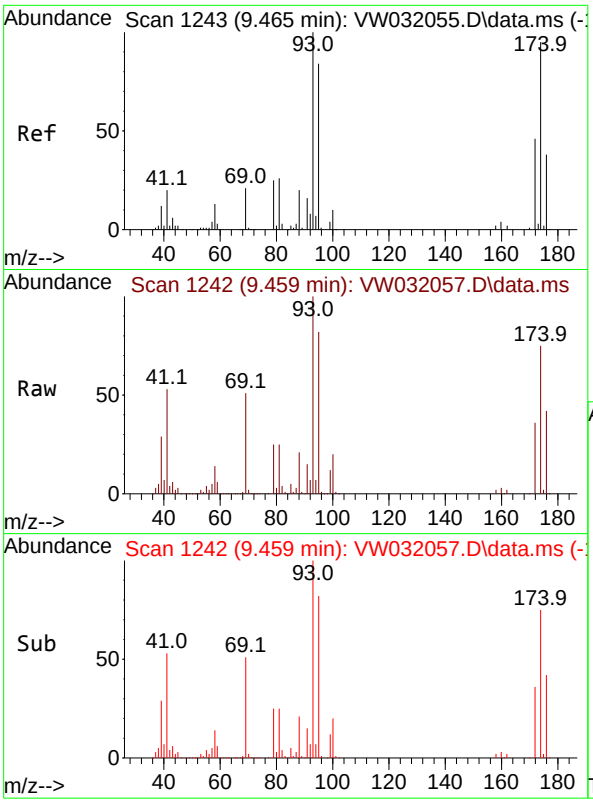


#48
Methyl methacrylate
Concen: 164.326 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



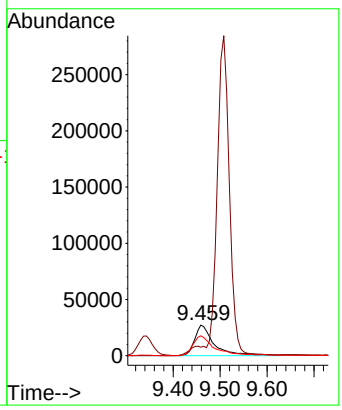


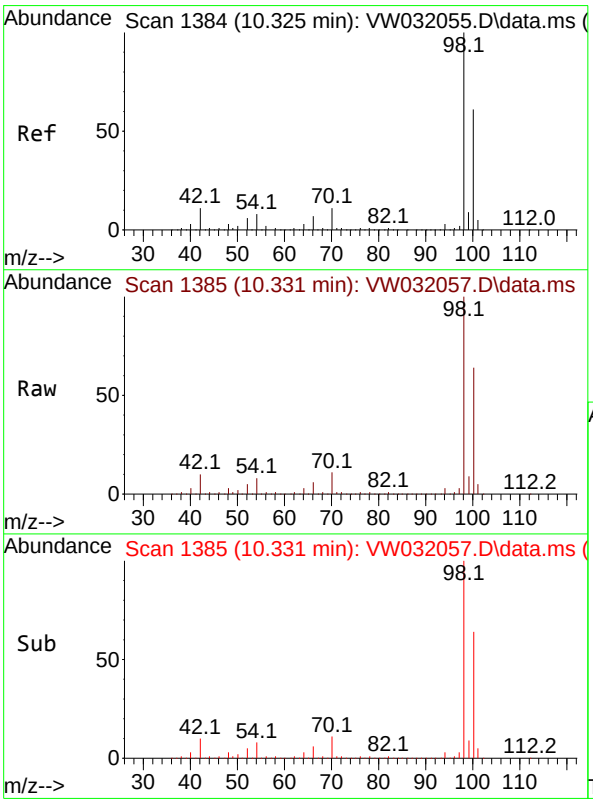
#49
1,4-Dioxane
Concen: 3279.484 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

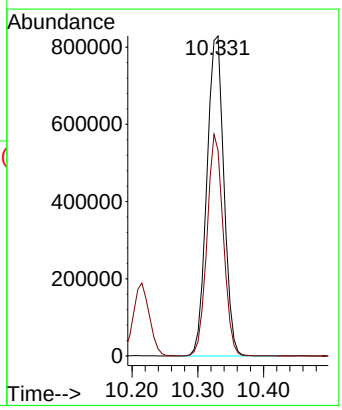


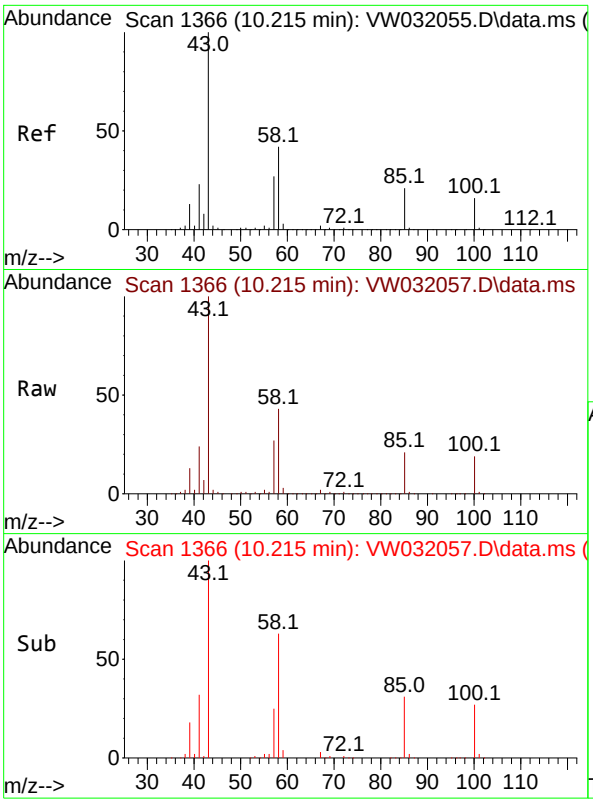


#50
Toluene-d8
Concen: 147.908 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 98 Resp: 1492050

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.1	76.7



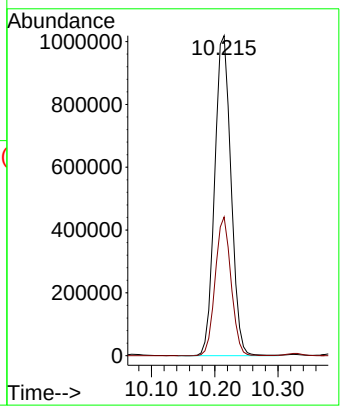


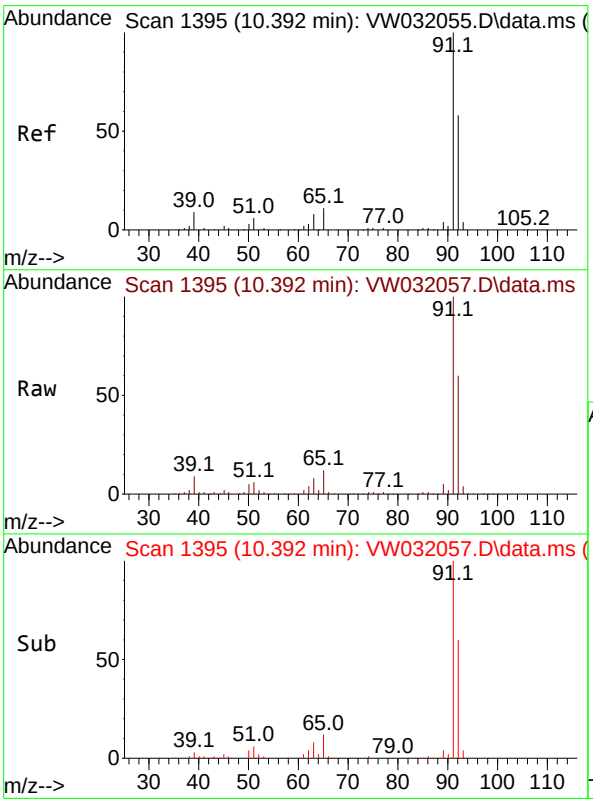
#51
4-Methyl-2-Pentanone
Concen: 772.800 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1817273

Ion	Ratio	Lower	Upper
43	100		
58	42.0	33.1	49.7

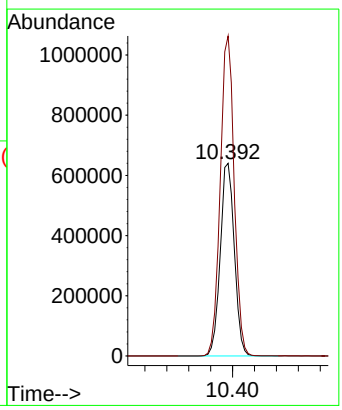


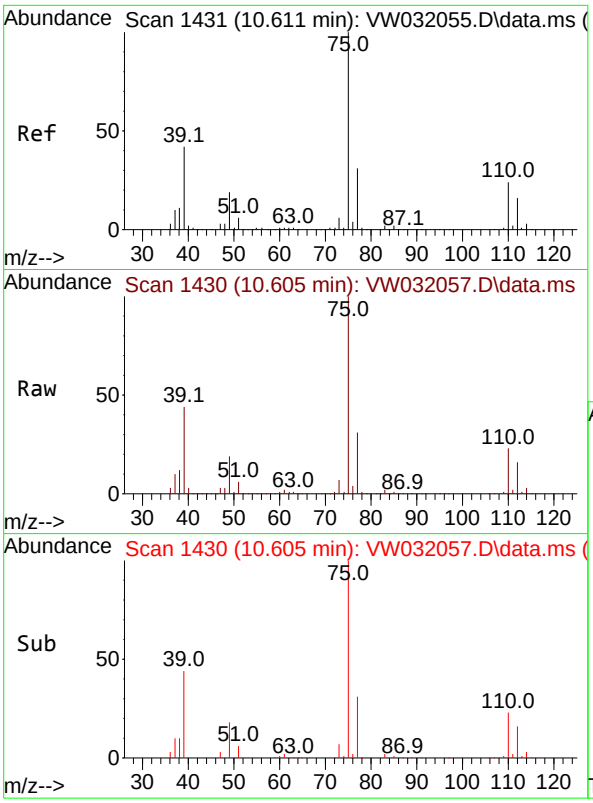


#52
Toluene
Concen: 151.812 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 92 Resp: 1142813

Ion	Ratio	Lower	Upper
92	100		
91	164.7	136.3	204.5



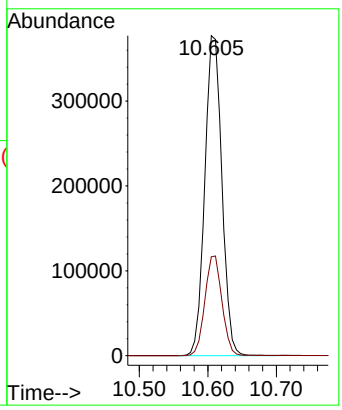


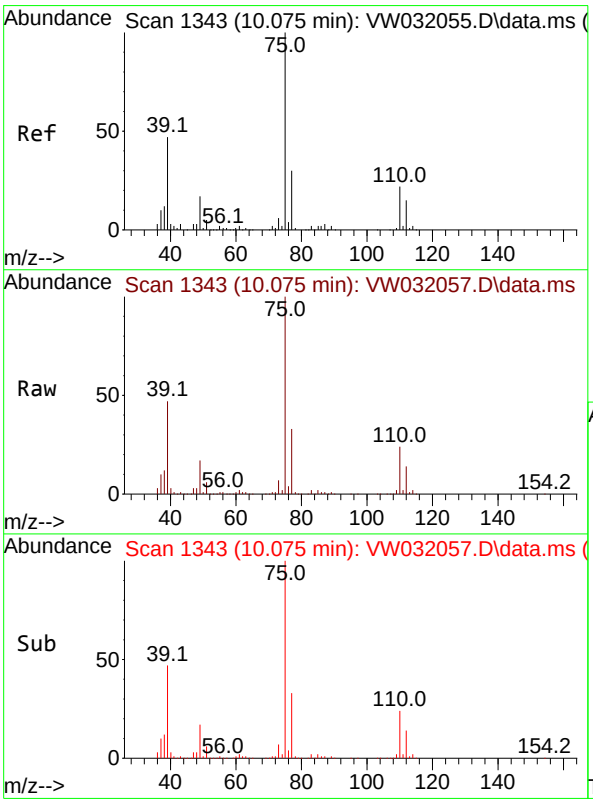
#53
t-1,3-Dichloropropene
Concen: 162.760 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 654765

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6

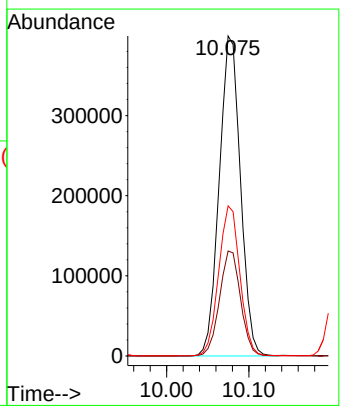


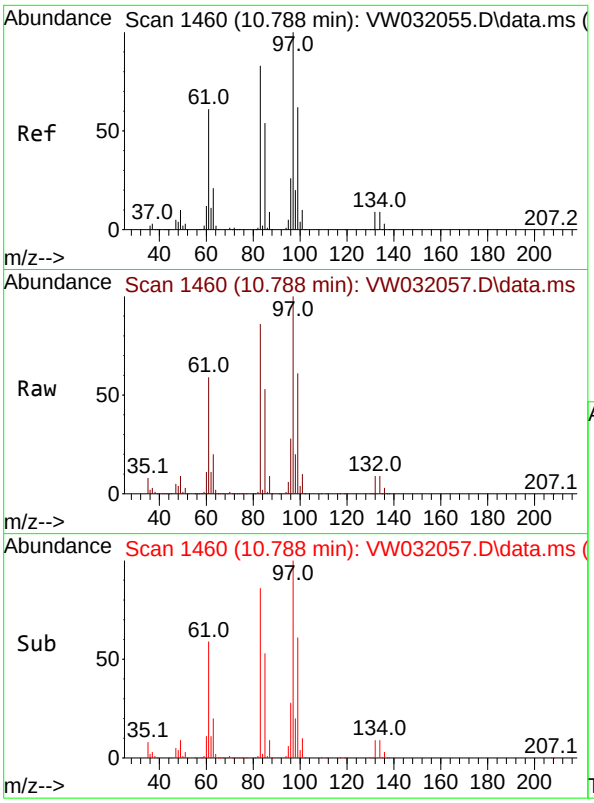


#54
cis-1,3-Dichloropropene
Concen: 157.011 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



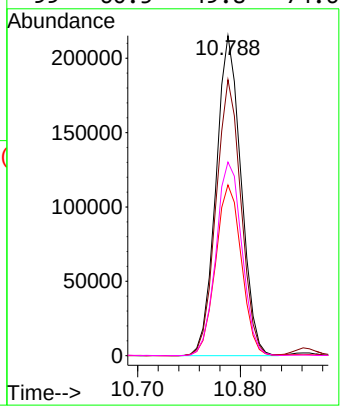


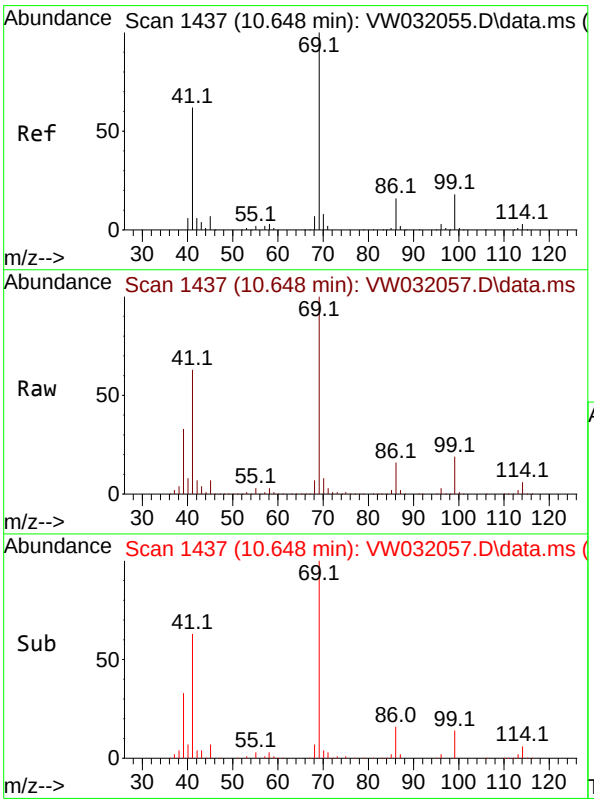
#55
1,1,2-Trichloroethane
Concen: 147.271 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

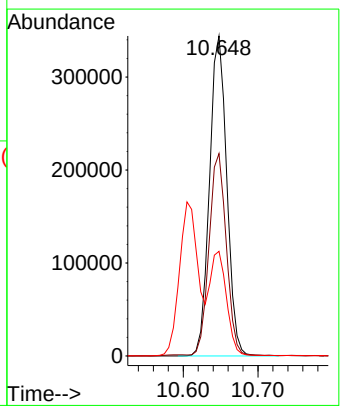


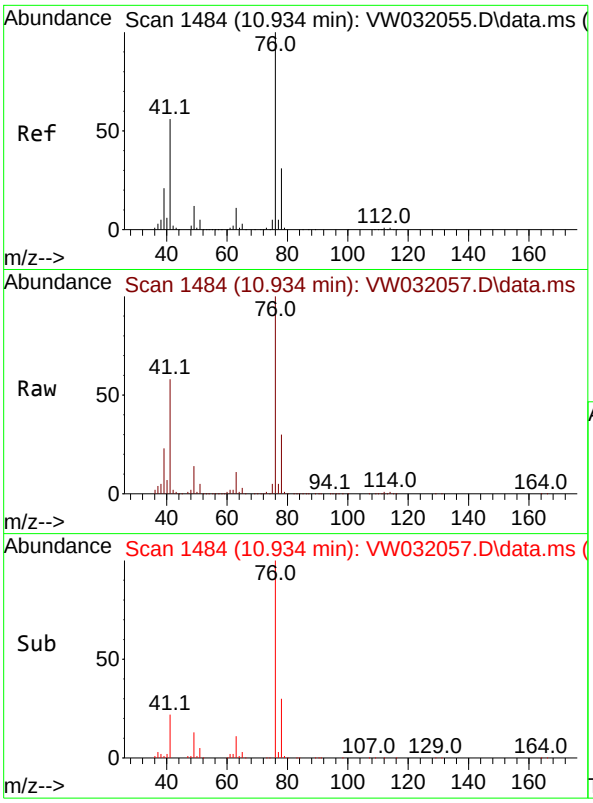


#56
Ethyl methacrylate
Concen: 166.963 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



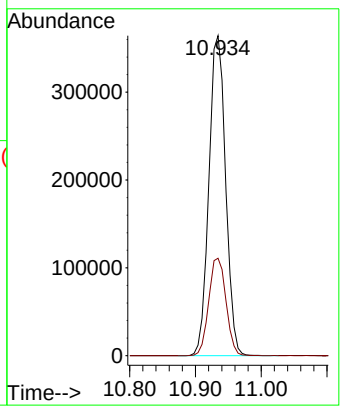


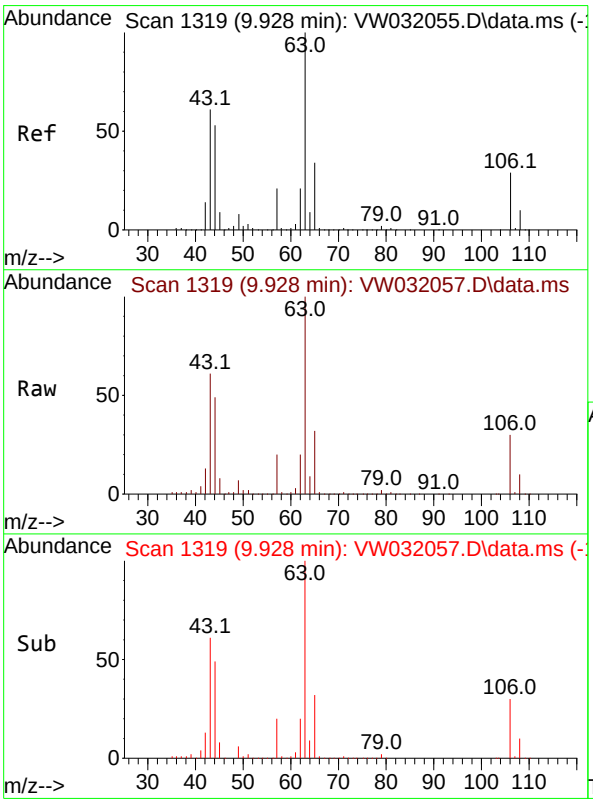
#57
1,3-Dichloropropane
Concen: 149.298 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 644418

Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.8	38.6

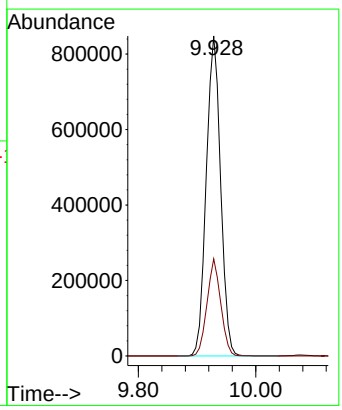


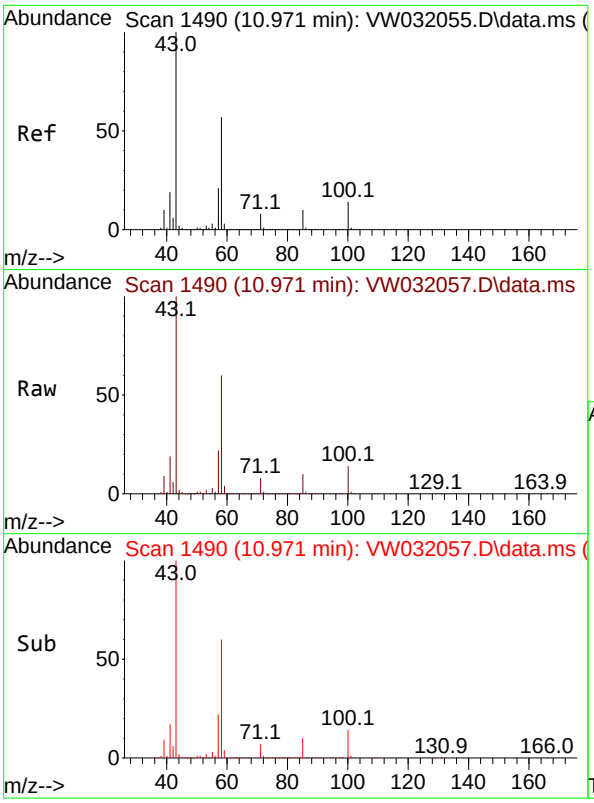


#58
2-Chloroethyl Vinyl ether
Concen: 784.377 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 1437682

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3



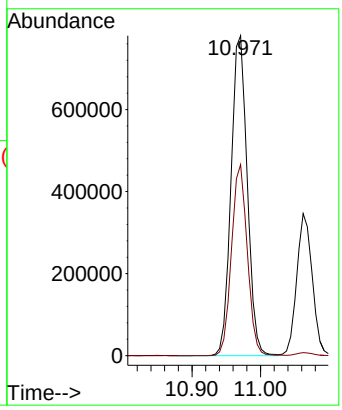


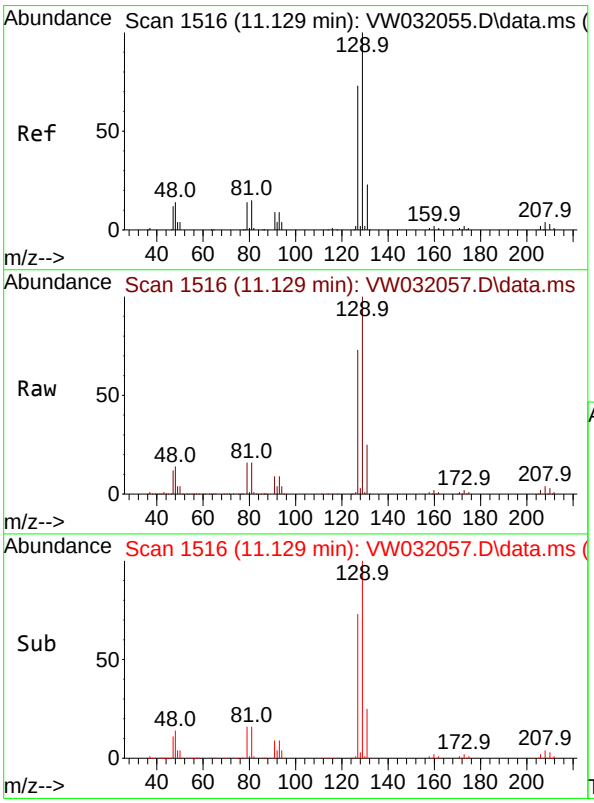
#59
2-Hexanone
Concen: 785.288 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1278917

Ion	Ratio	Lower	Upper
43	100		
58	58.3	28.3	85.0

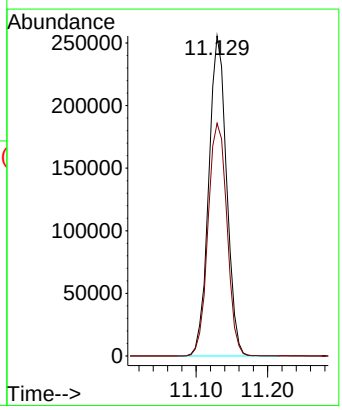


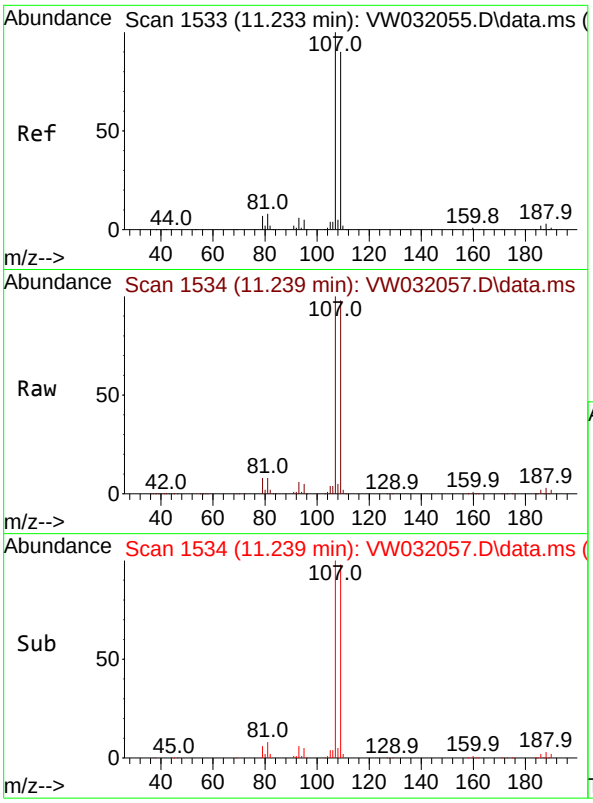


#60
Dibromochloromethane
Concen: 156.387 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:129 Resp: 442362

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.0	116.9



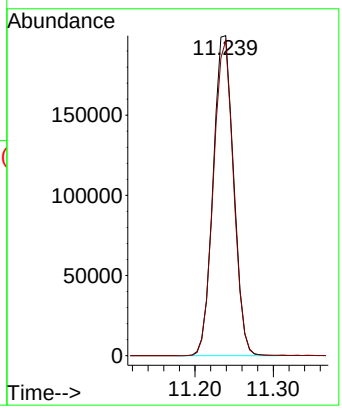


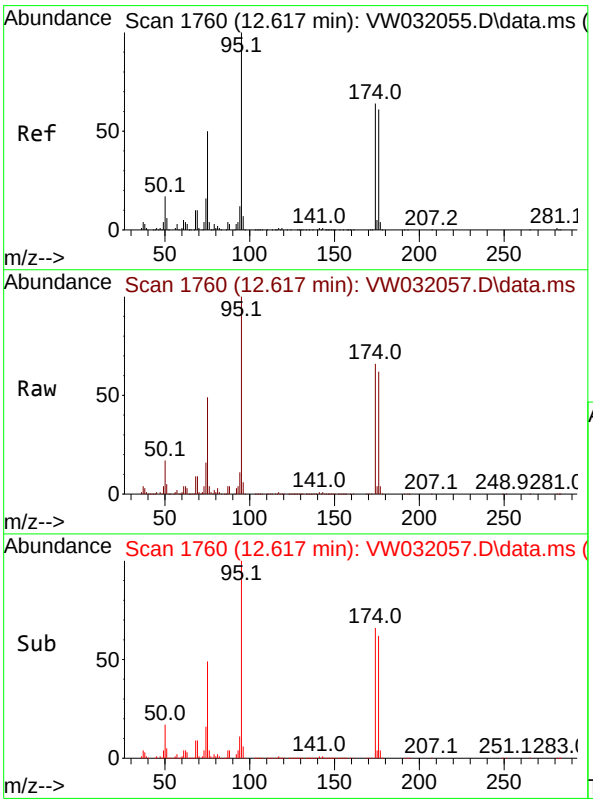
#61
1,2-Dibromoethane
Concen: 150.929 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 363192

Ion	Ratio	Lower	Upper
107	100		
109	96.5	74.2	111.4

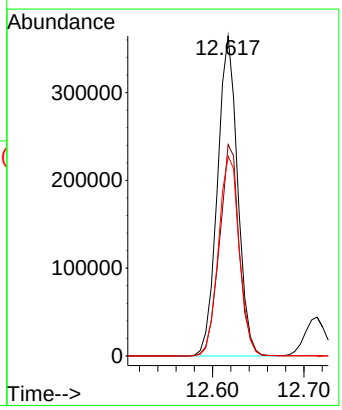


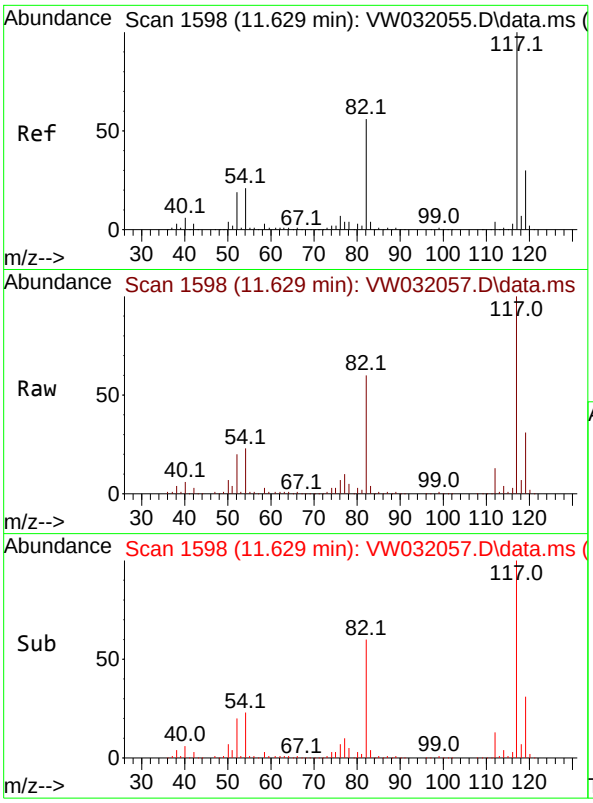


#62
4-Bromofluorobenzene
Concen: 150.185 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



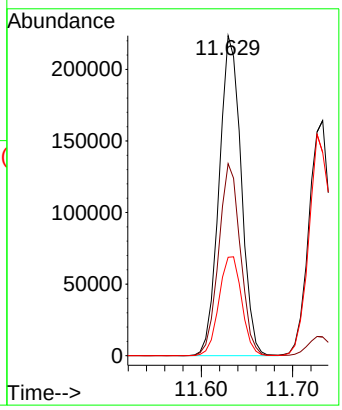


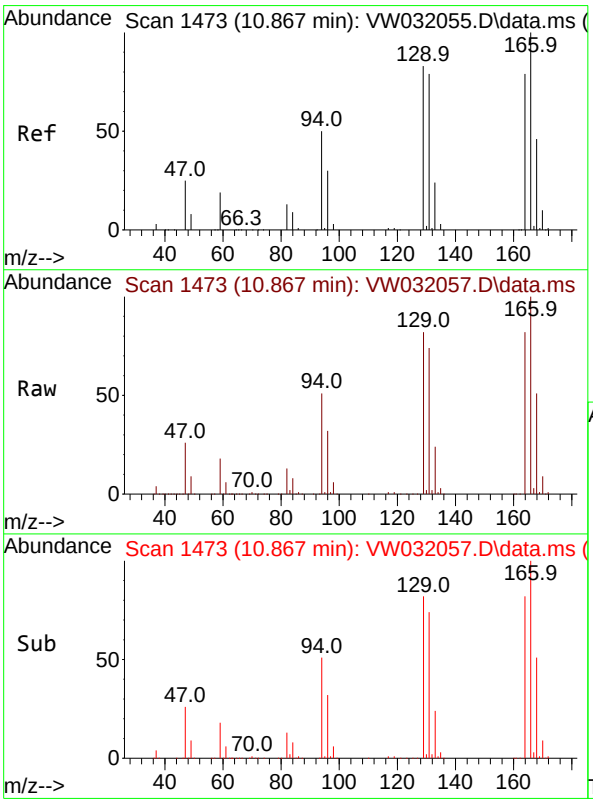
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

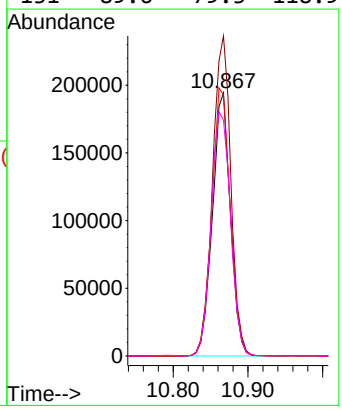


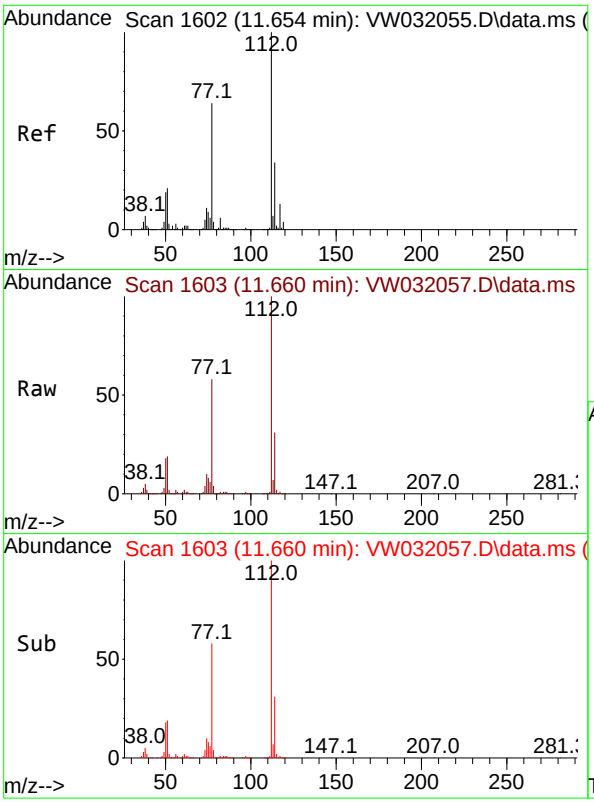


#64
Tetrachloroethene
Concen: 150.622 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



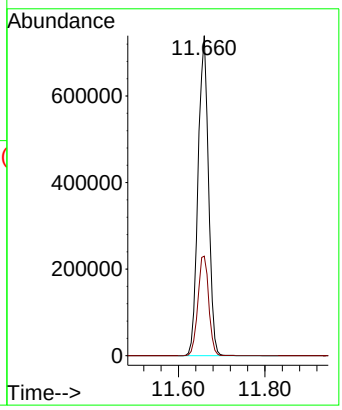


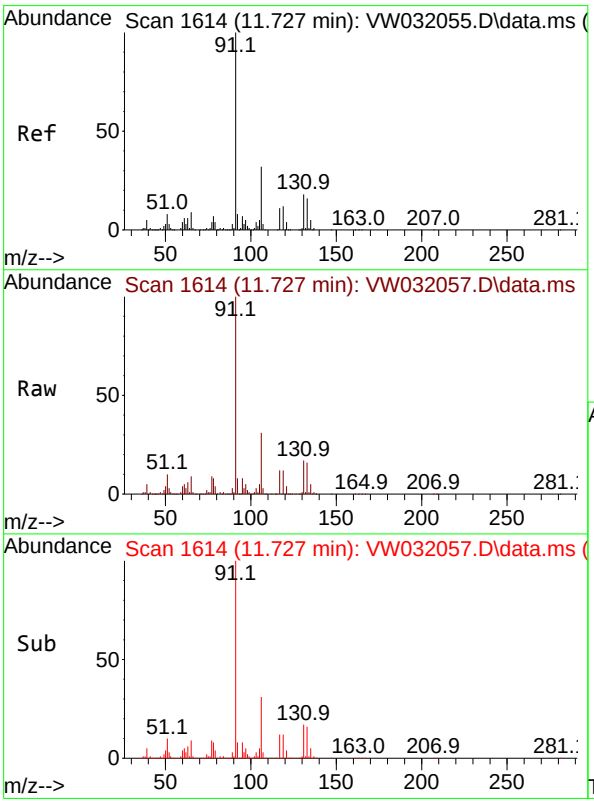
#65
Chlorobenzene
Concen: 150.609 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 1230240

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.9	40.3

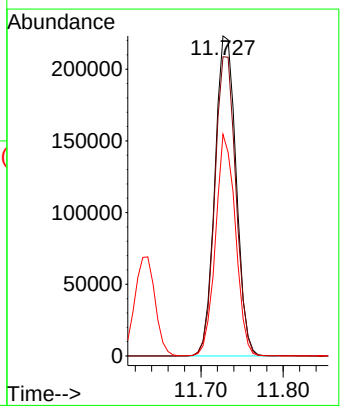


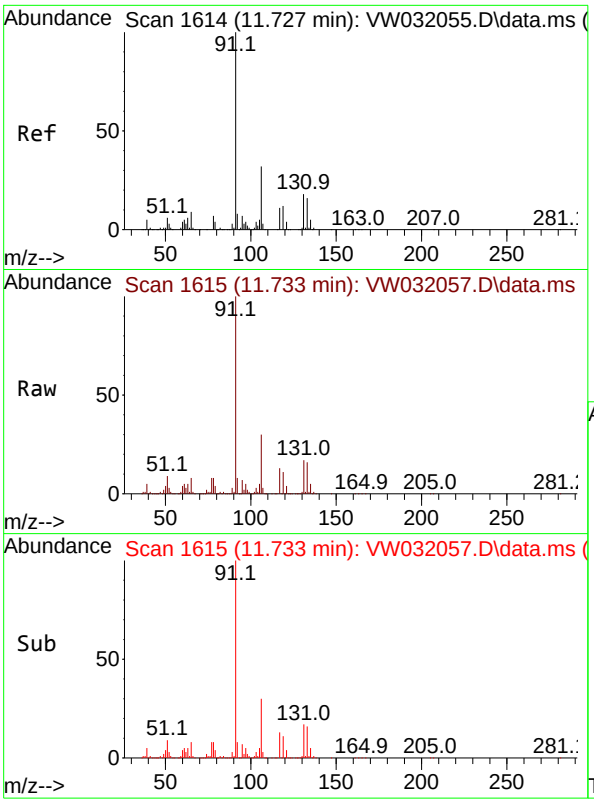


#66
1,1,1,2-Tetrachloroethane
Concen: 157.017 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



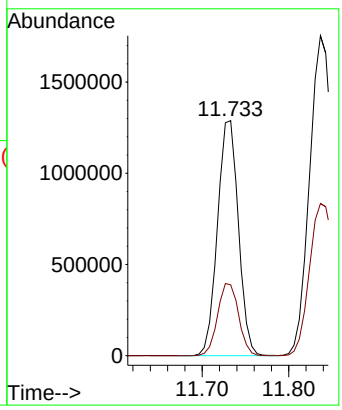


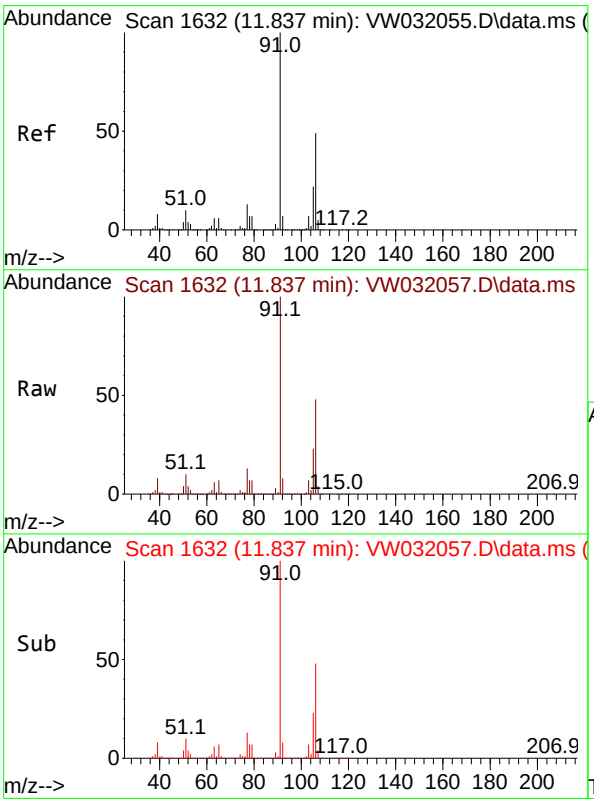
#67
Ethyl Benzene
Concen: 156.328 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2162983

Ion	Ratio	Lower	Upper
91	100		
106	30.1	25.4	38.0

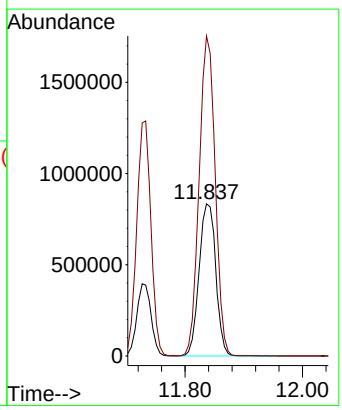


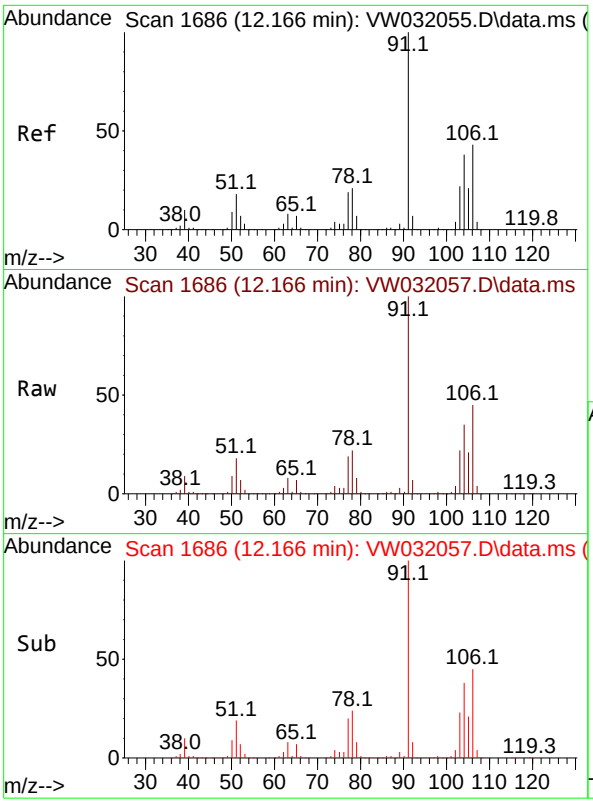


#68
m/p-Xylenes
Concen: 307.801 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:106 Resp: 1643338

Ion	Ratio	Lower	Upper
106	100		
91	203.0	162.2	243.2



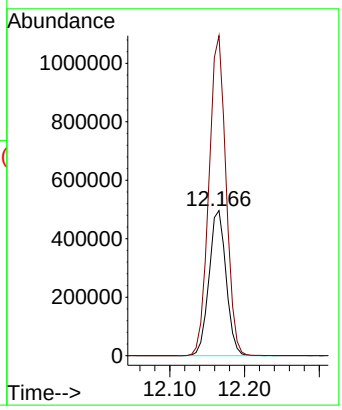


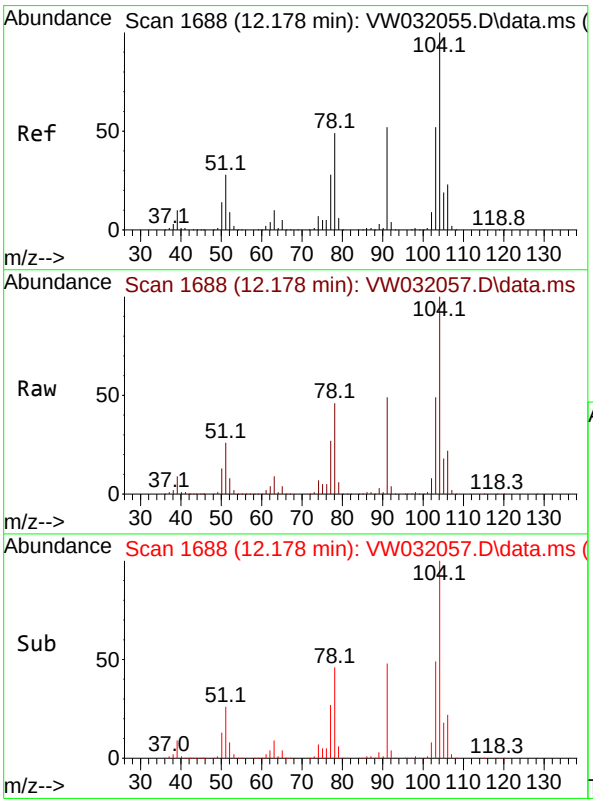
#69
o-Xylene
Concen: 159.450 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 786831

Ion	Ratio	Lower	Upper
106	100		
91	220.1	110.8	332.3

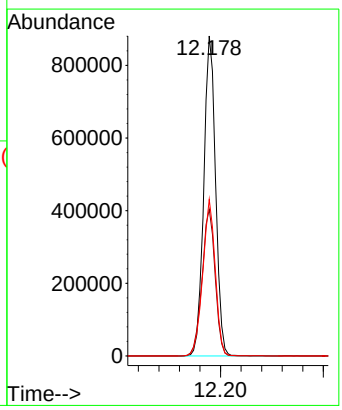


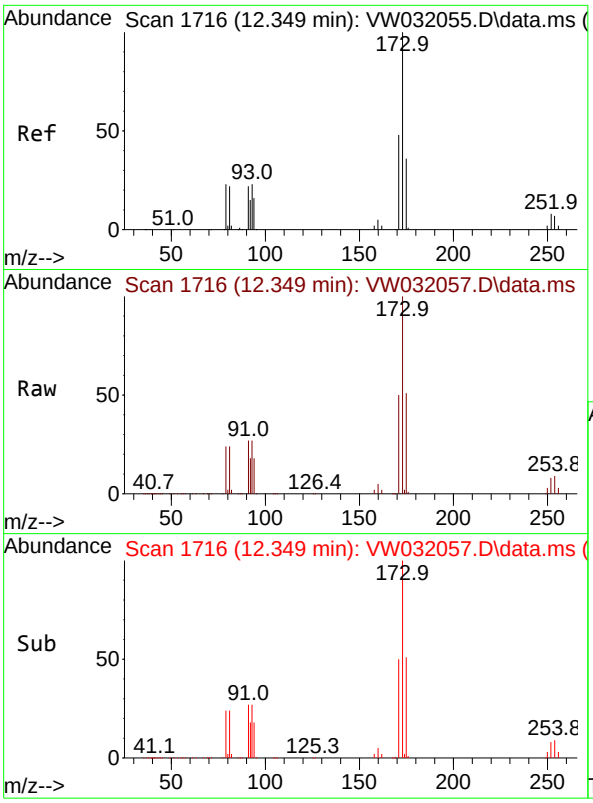


#70
Styrene
Concen: 160.482 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



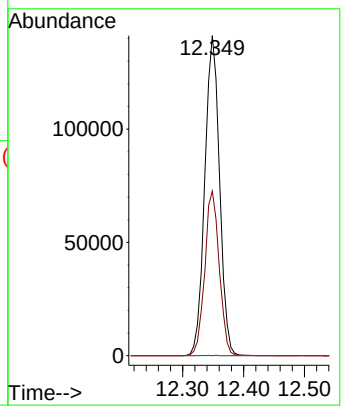


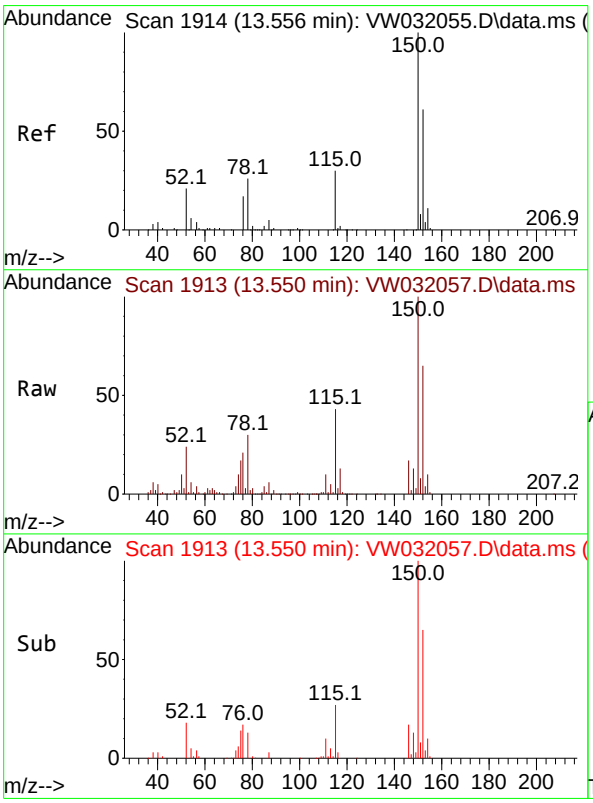
#71
Bromoform
Concen: 163.720 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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#

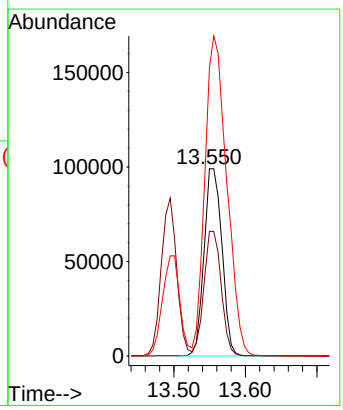


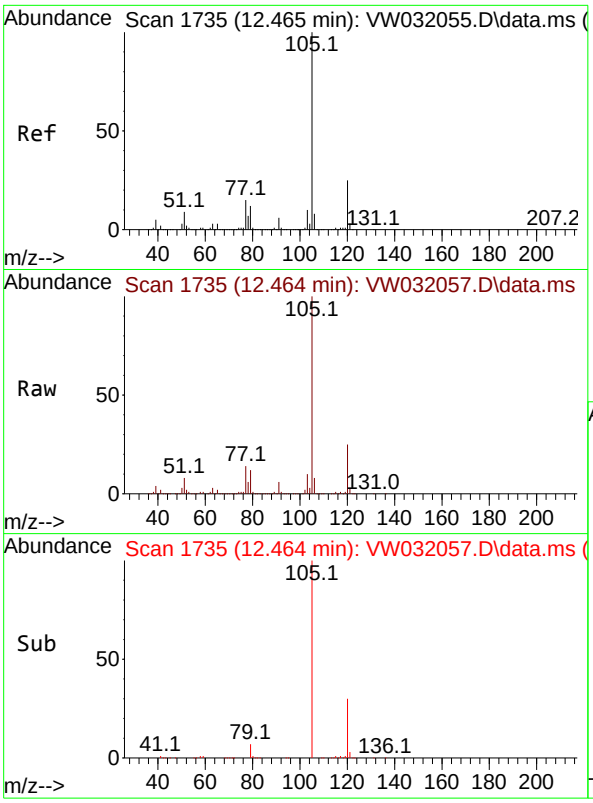


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



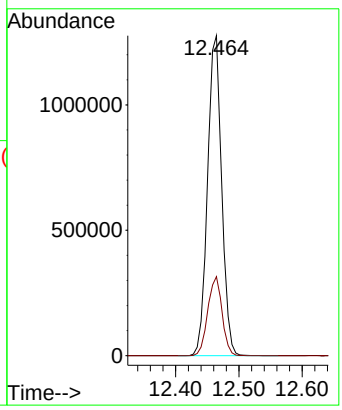


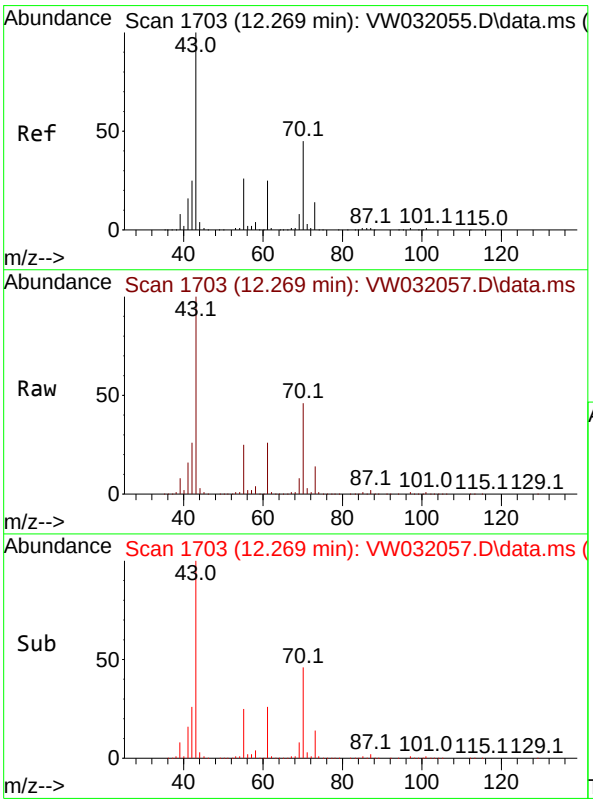
#73
Isopropylbenzene
Concen: 164.188 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1977280

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4

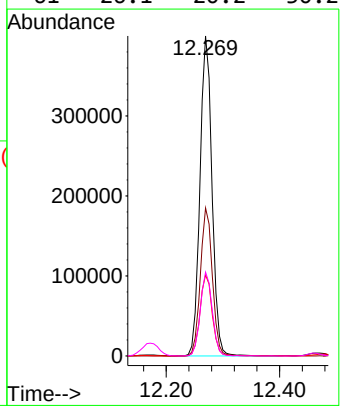


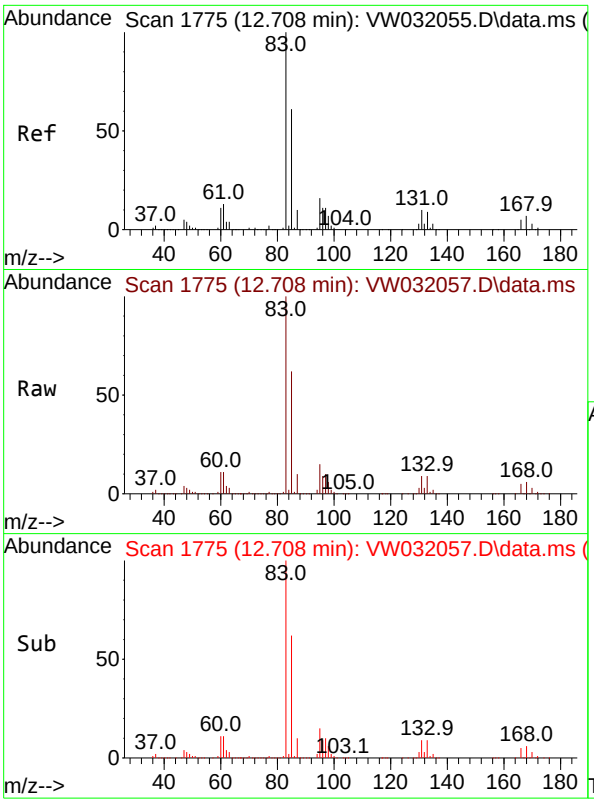


#74
N-amyl acetate
Concen: 170.556 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



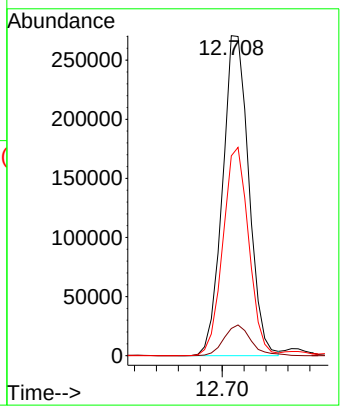


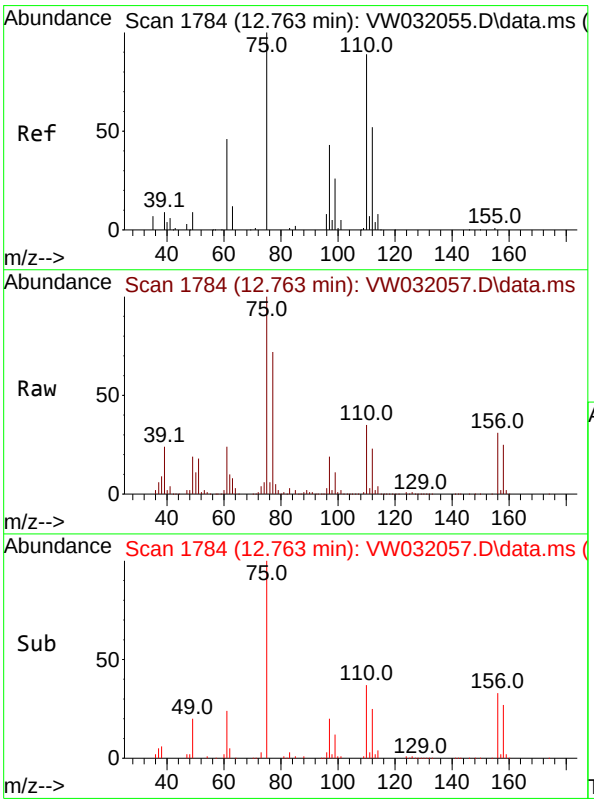
#75
1,1,2,2-Tetrachloroethane
Concen: 157.276 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

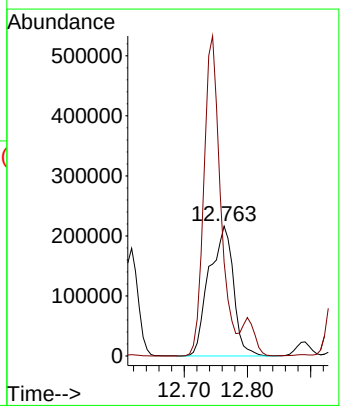


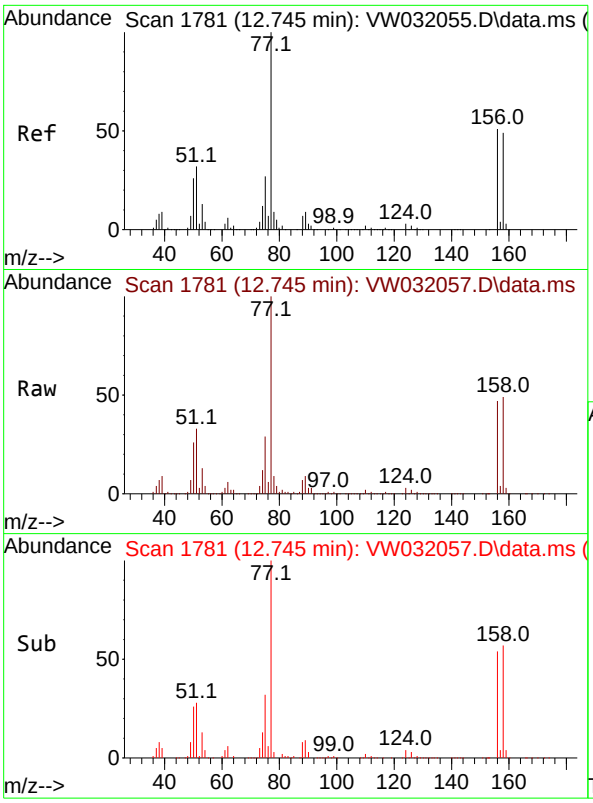


#76
1,2,3-Trichloropropane
Concen: 217.539 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 576261

Ion	Ratio	Lower	Upper
75	100		
77	168.6	123.5	370.5



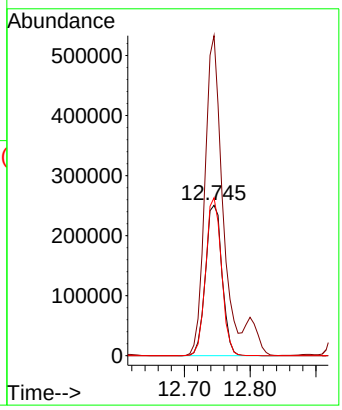


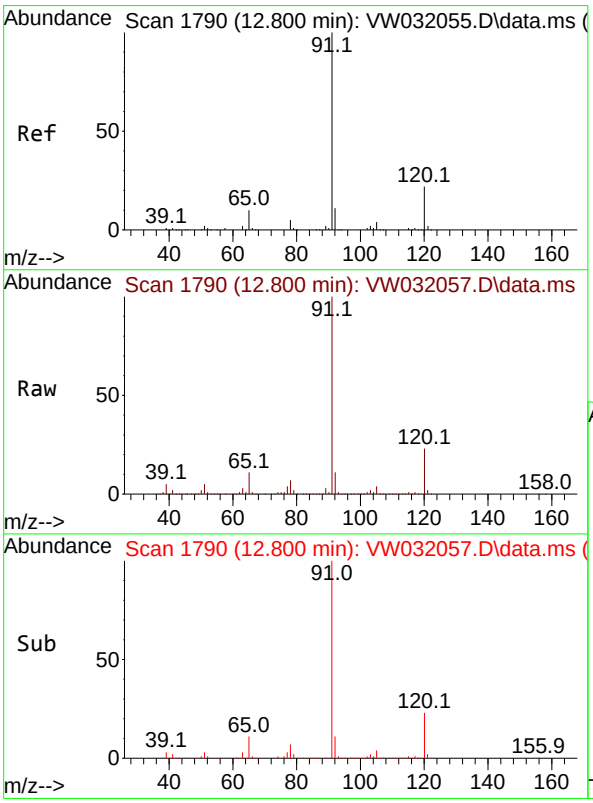
#77
Bromobenzene
Concen: 153.167 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

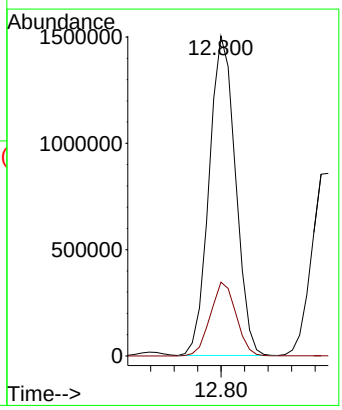


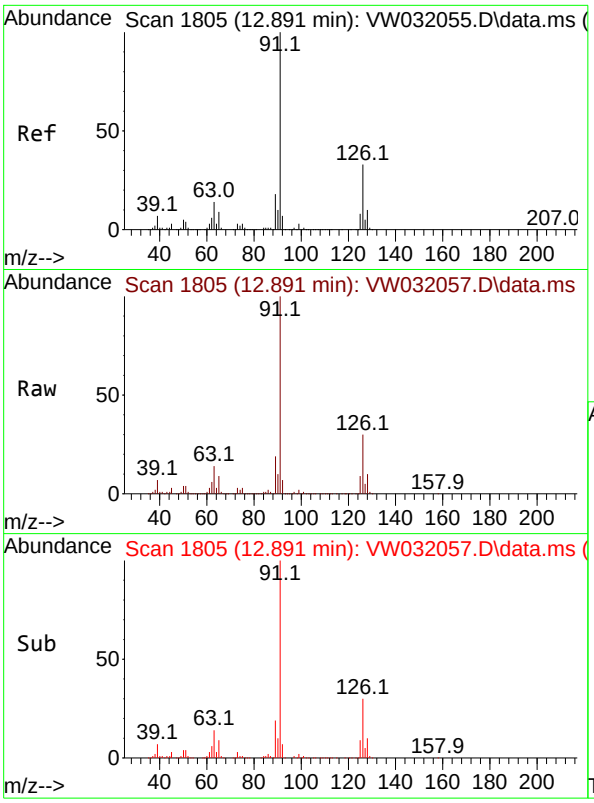


#78
n-propylbenzene
Concen: 158.253 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 2346333

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



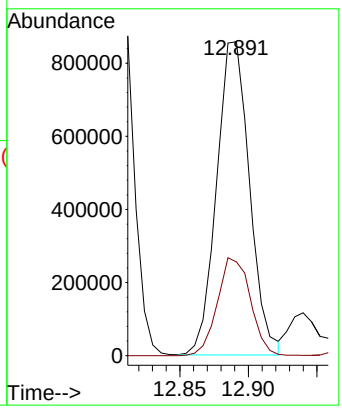


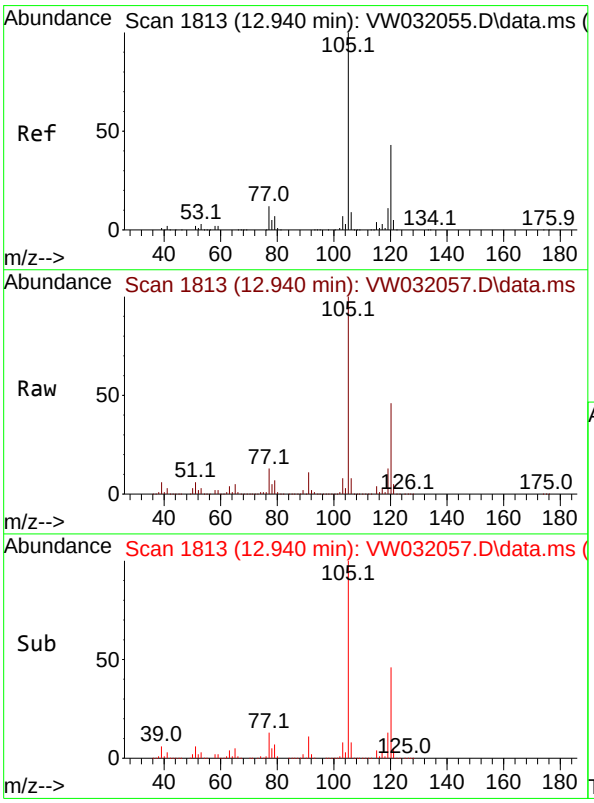
#79
2-Chlorotoluene
Concen: 156.820 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1434986

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.9	47.7

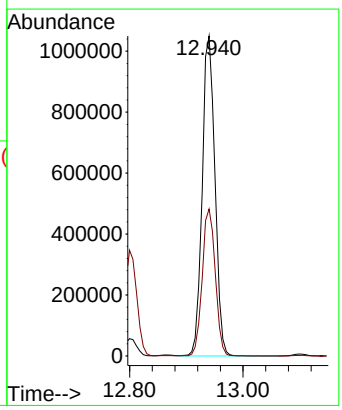


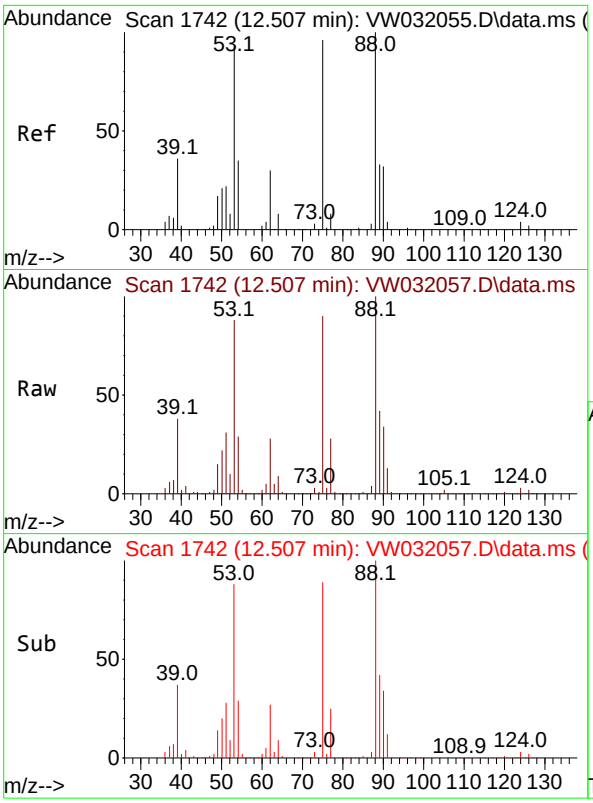


#80
1,3,5-Trimethylbenzene
Concen: 160.368 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1639597

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.4	70.0



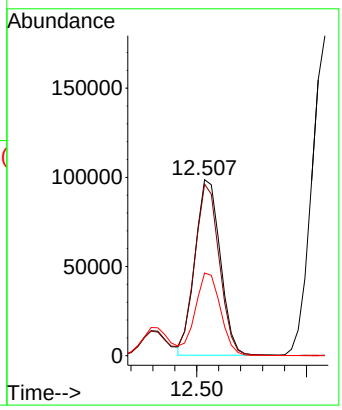


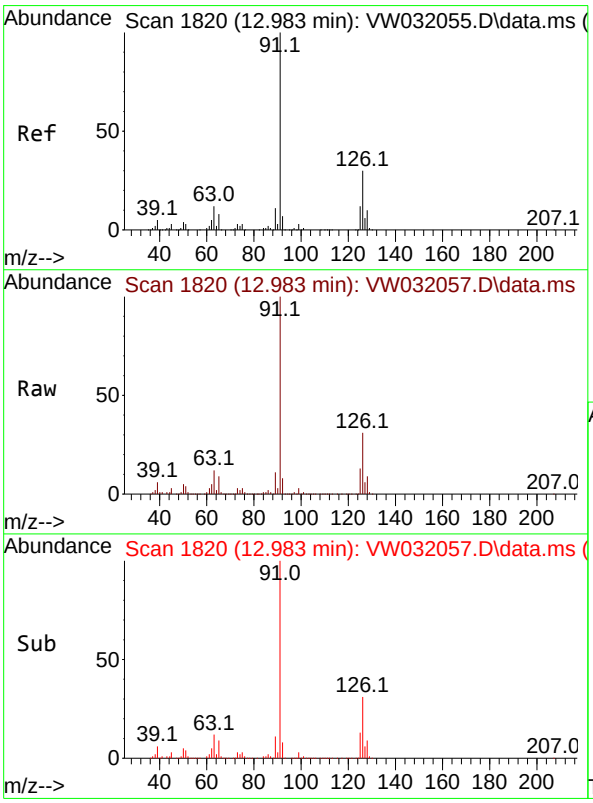
#81
trans-1,4-Dichloro-2-butene
Concen: 174.499 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

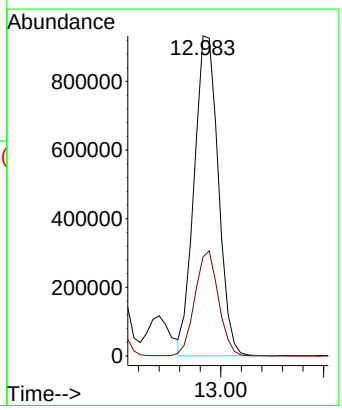


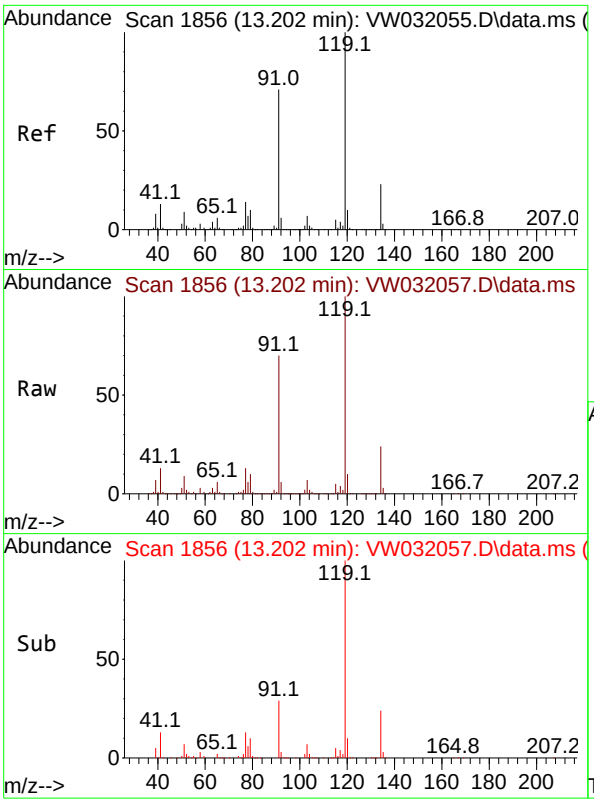


#82
4-Chlorotoluene
Concen: 155.863 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 1515300

Ion	Ratio	Lower	Upper
91	100		
126	32.2	15.5	46.5



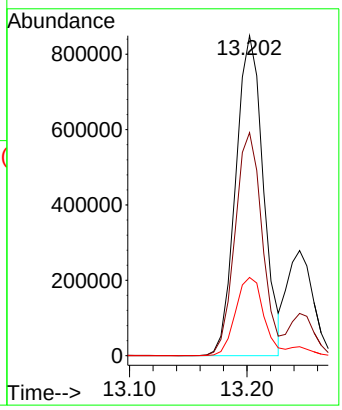


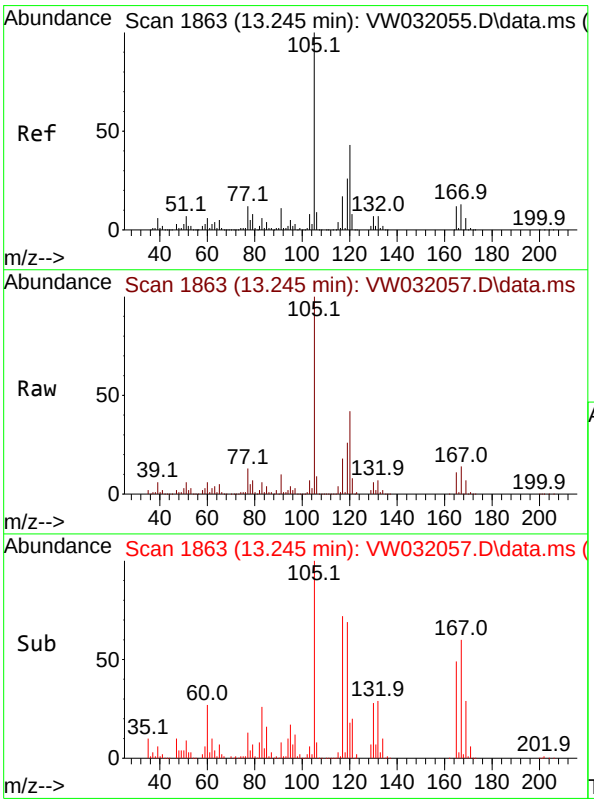
#83
tert-Butylbenzene
Concen: 163.006 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

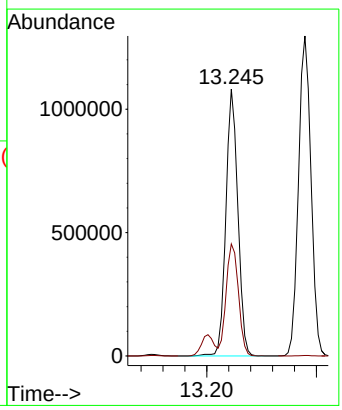


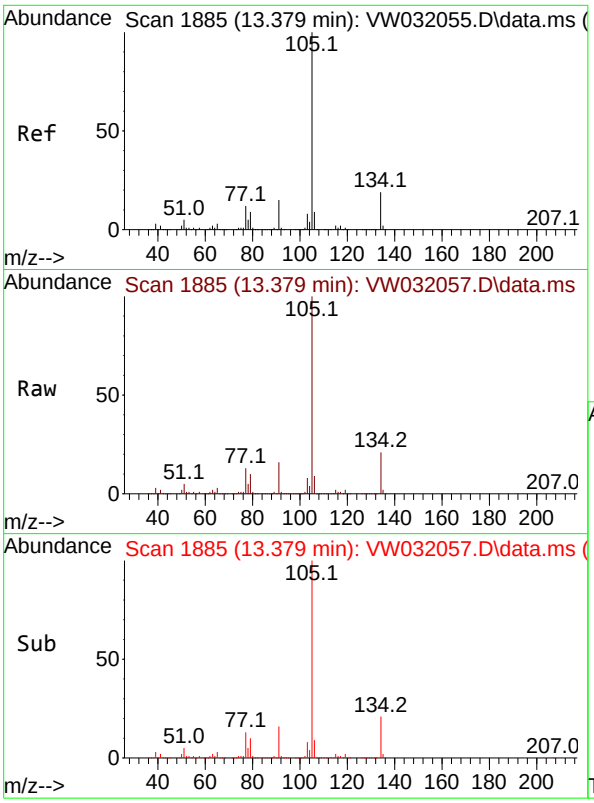


#84
1,2,4-Trimethylbenzene
Concen: 158.189 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1646381

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.6	64.8



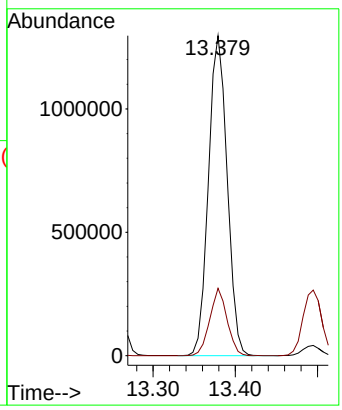


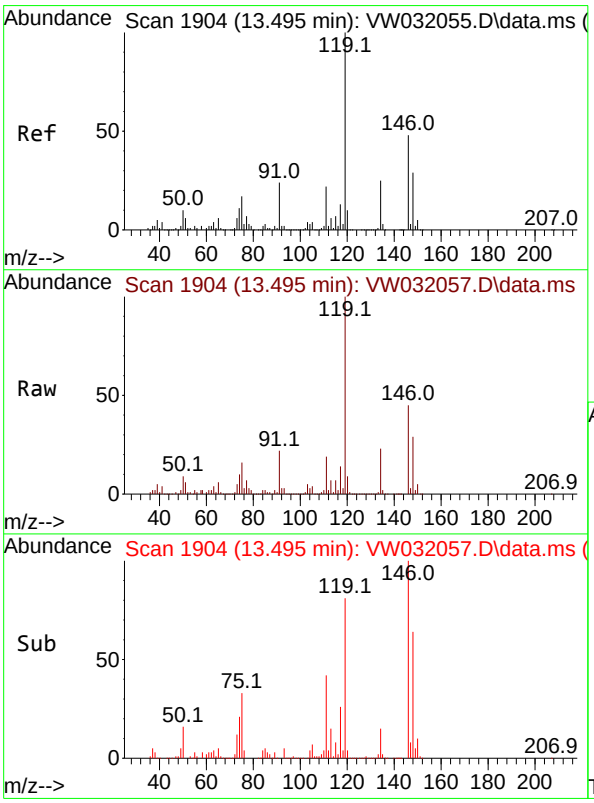
#85
sec-Butylbenzene
Concen: 159.625 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2047763

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.9	29.7

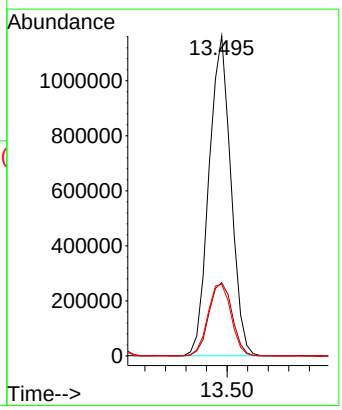


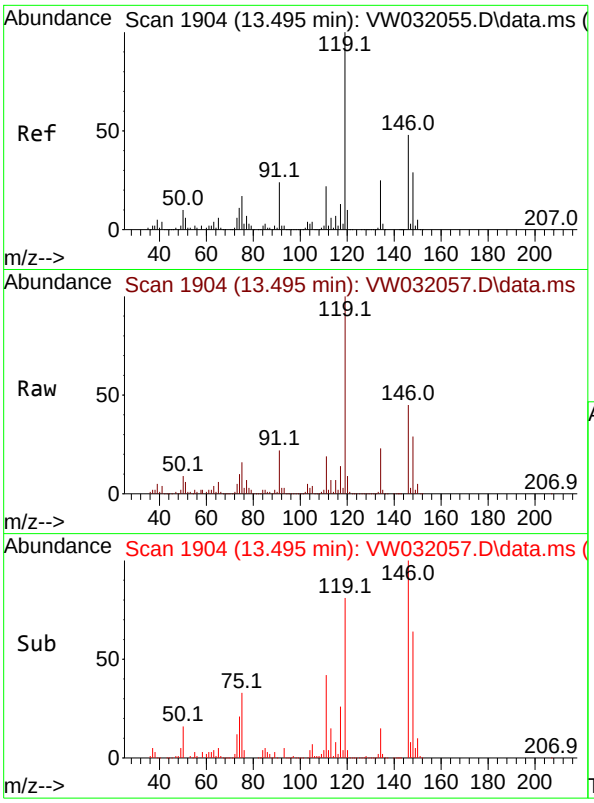


#86
p-Isopropyltoluene
Concen: 160.127 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



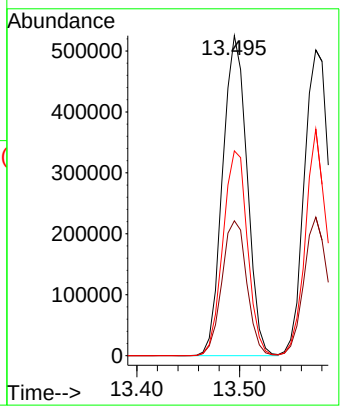


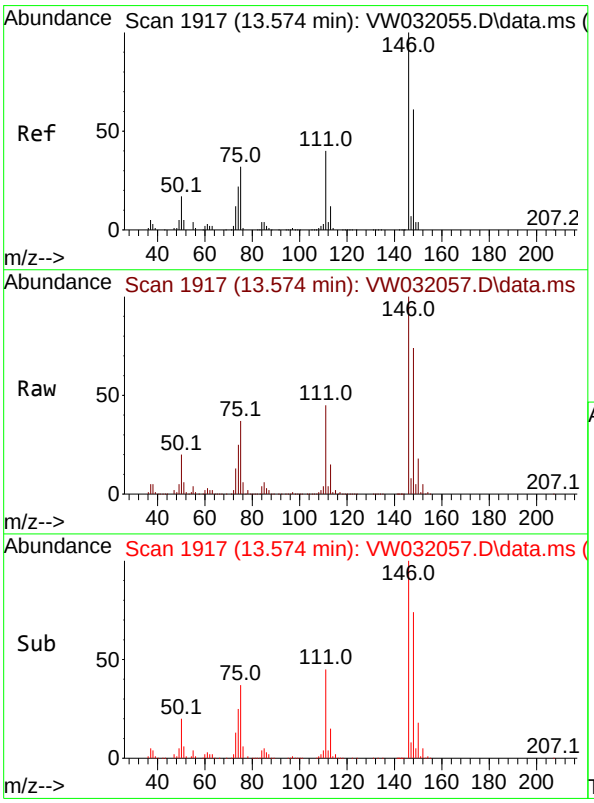
#87
1,3-Dichlorobenzene
Concen: 151.629 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

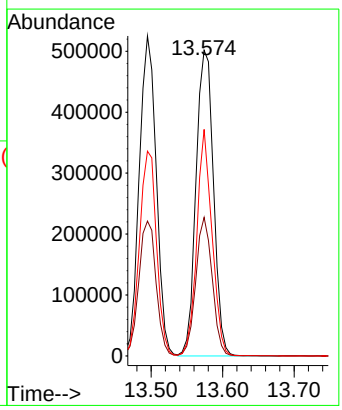


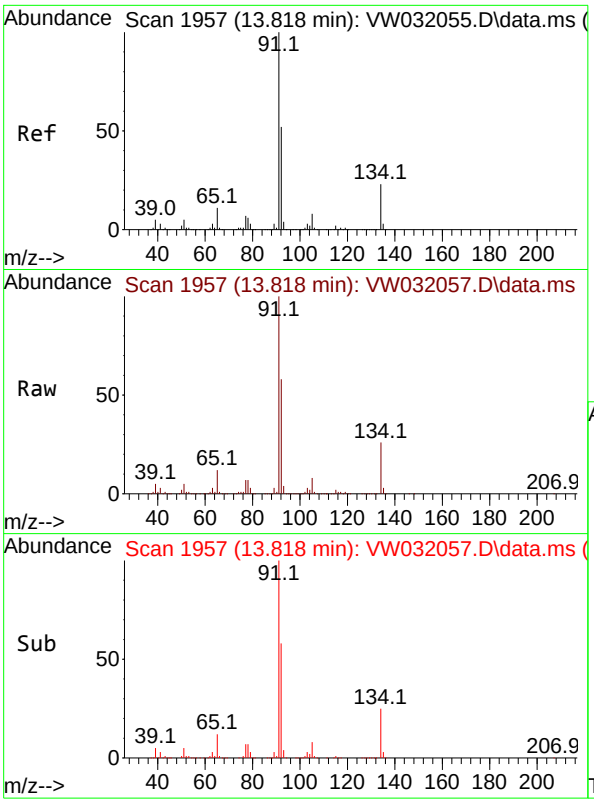


#88
1,4-Dichlorobenzene
Concen: 147.144 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



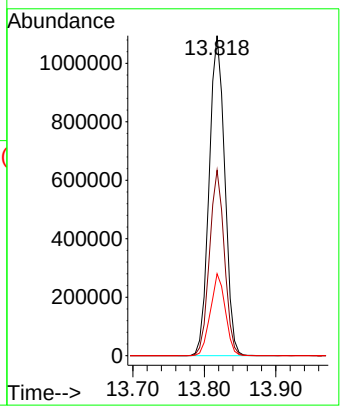


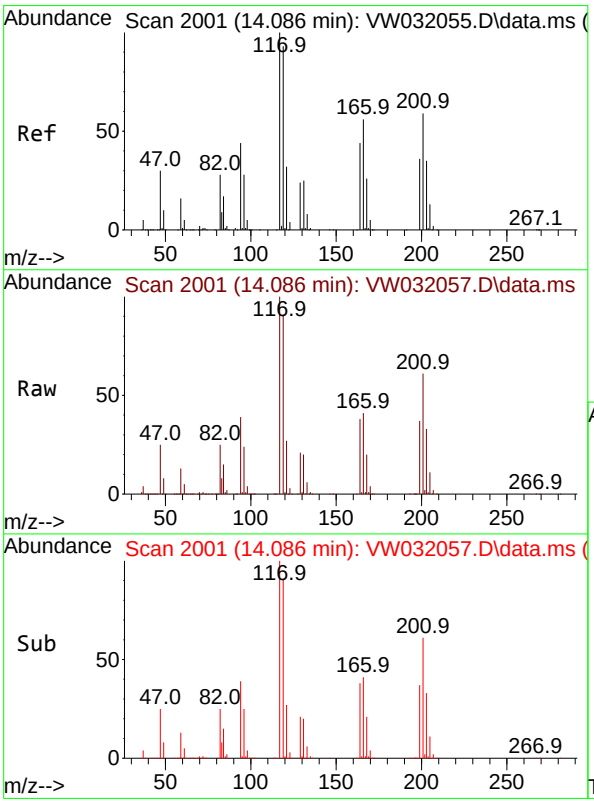
#89
n-Butylbenzene
Concen: 159.527 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

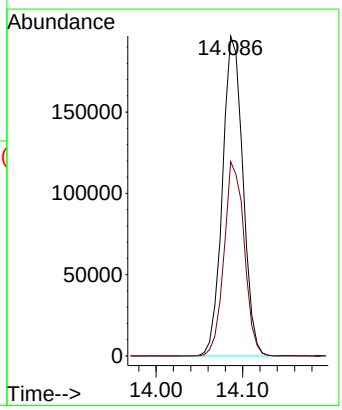


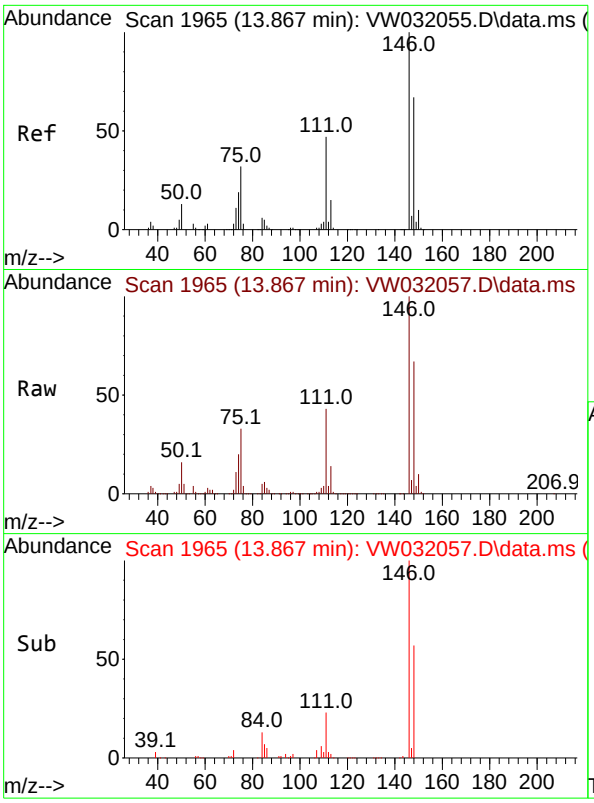


#90
Hexachloroethane
Concen: 164.868 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 322461

Ion	Ratio	Lower	Upper
117	100		
201	60.0	30.9	92.5



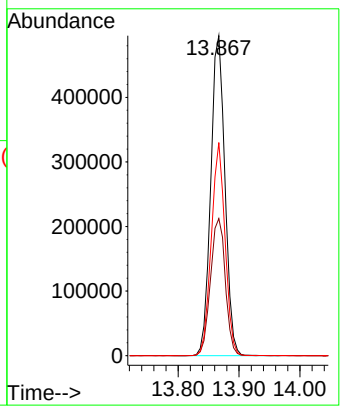


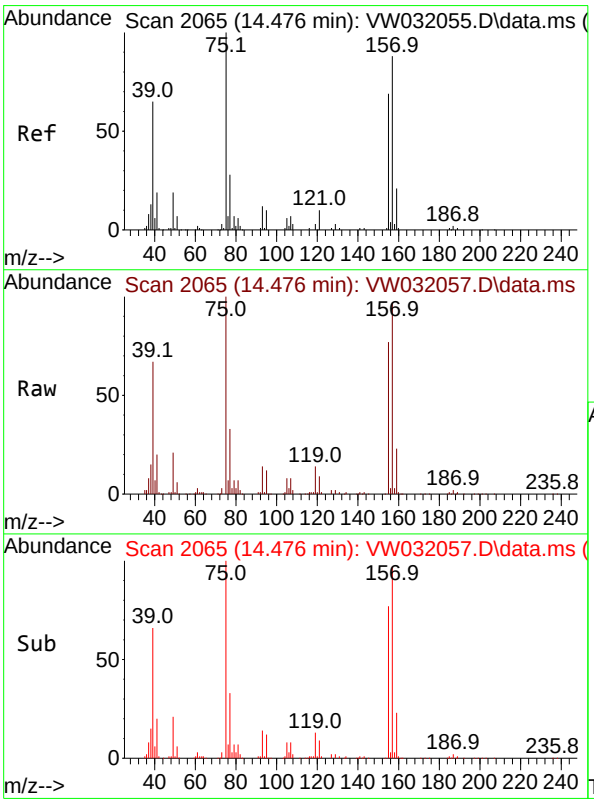
#91
1,2-Dichlorobenzene
Concen: 153.968 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

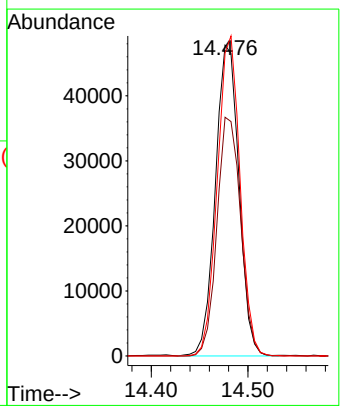


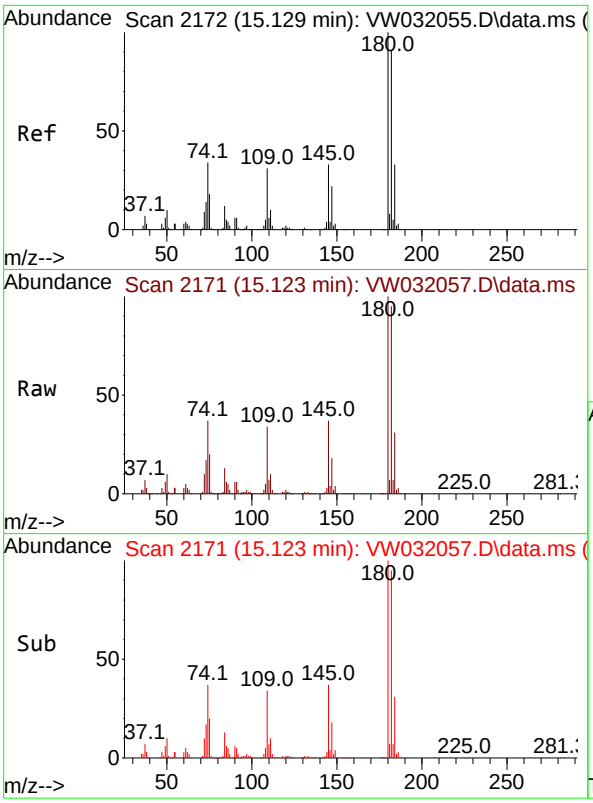


#92
1,2-Dibromo-3-Chloropropane
Concen: 159.472 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



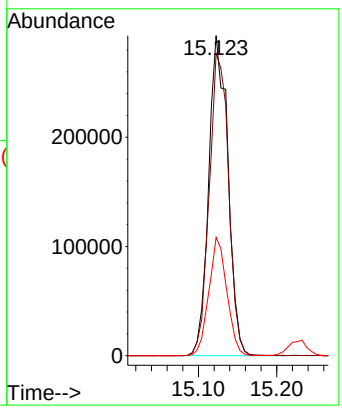


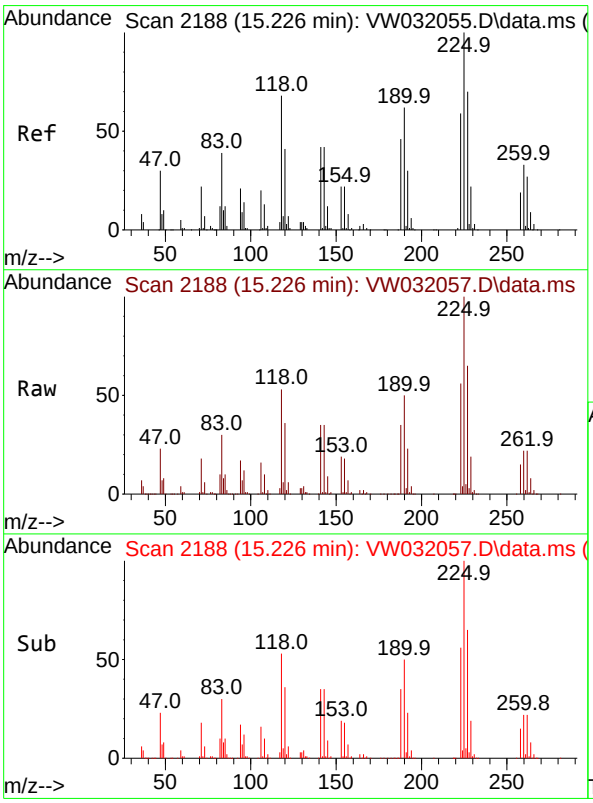
#93
1,2,4-Trichlorobenzene
Concen: 161.006 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

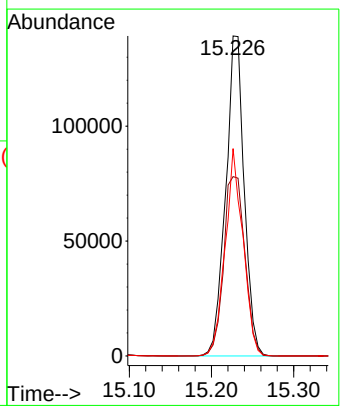


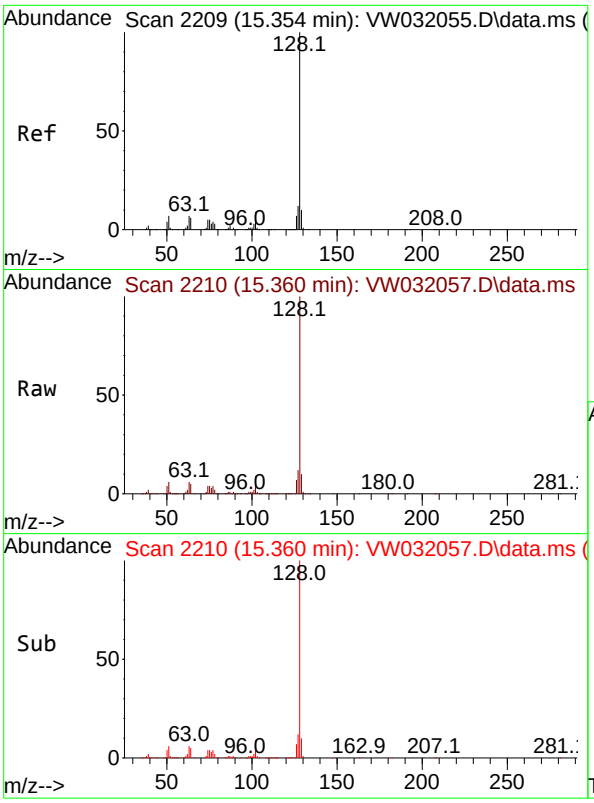


#94
Hexachlorobutadiene
Concen: 157.938 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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



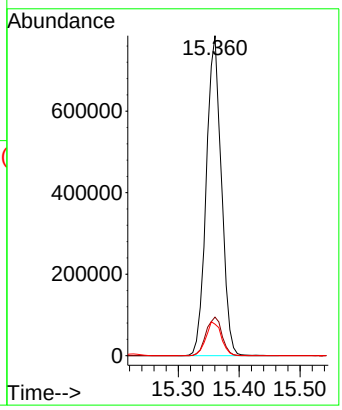


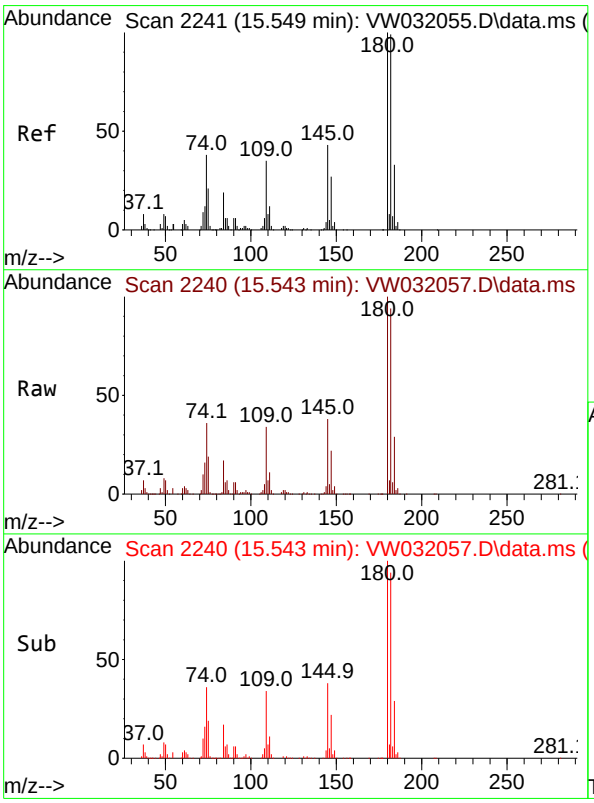
#95
Naphthalene
Concen: 177.424 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

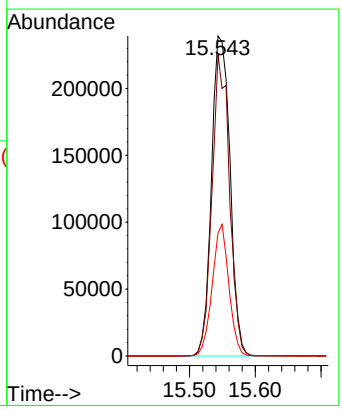




#96
1,2,3-Trichlorobenzene
Concen: 165.423 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

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

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)

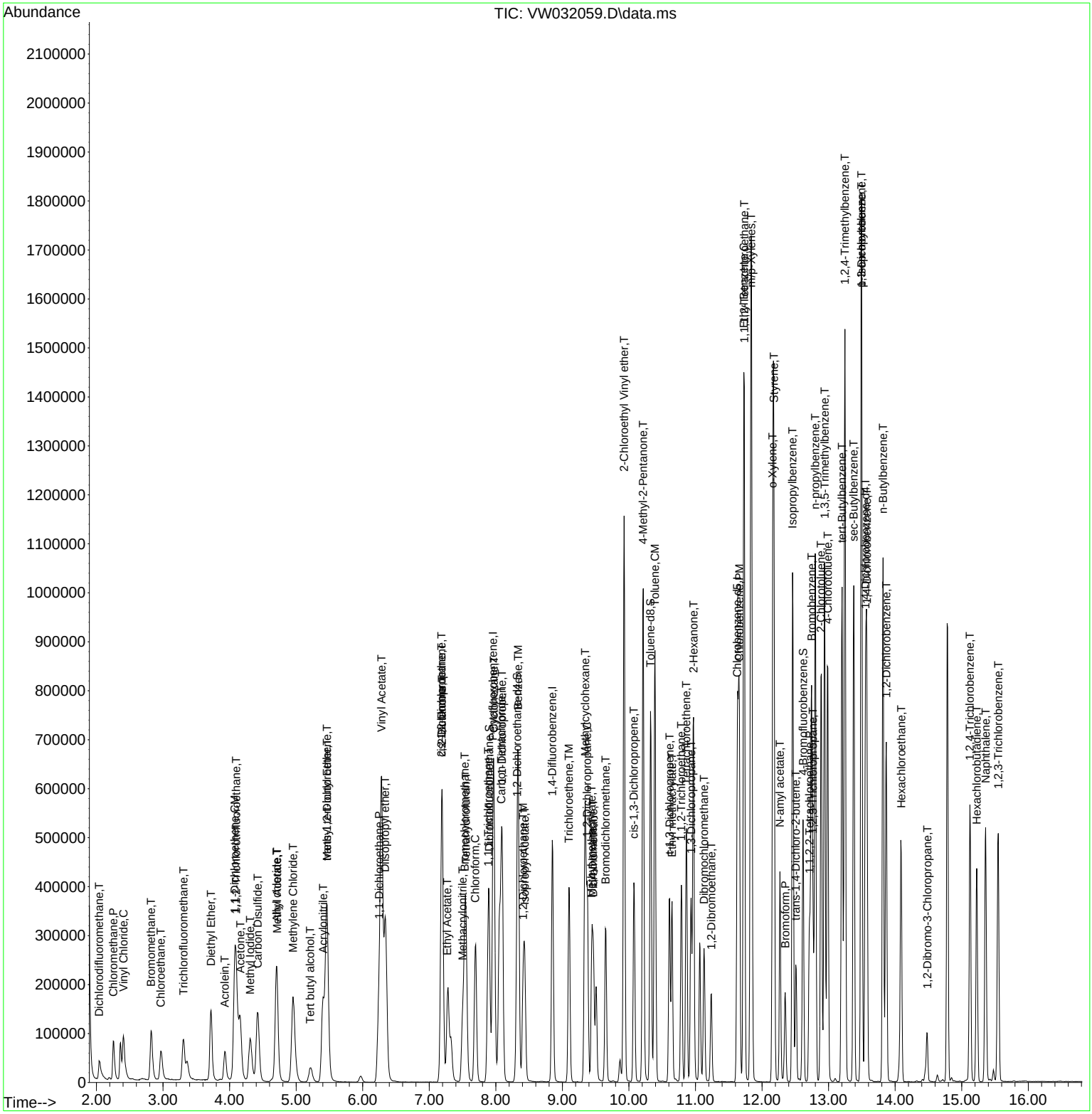
(#) = qualifier out of range (m) = manual integration (+) = signals summed

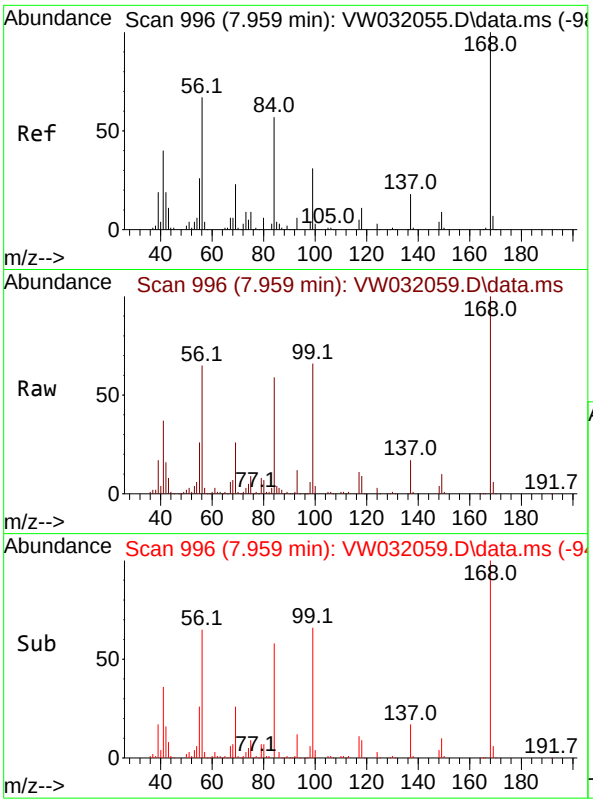
Quantitation Report (Not Reviewed)

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



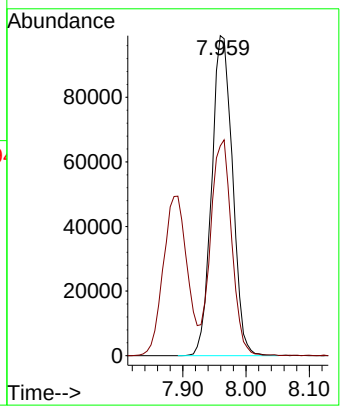


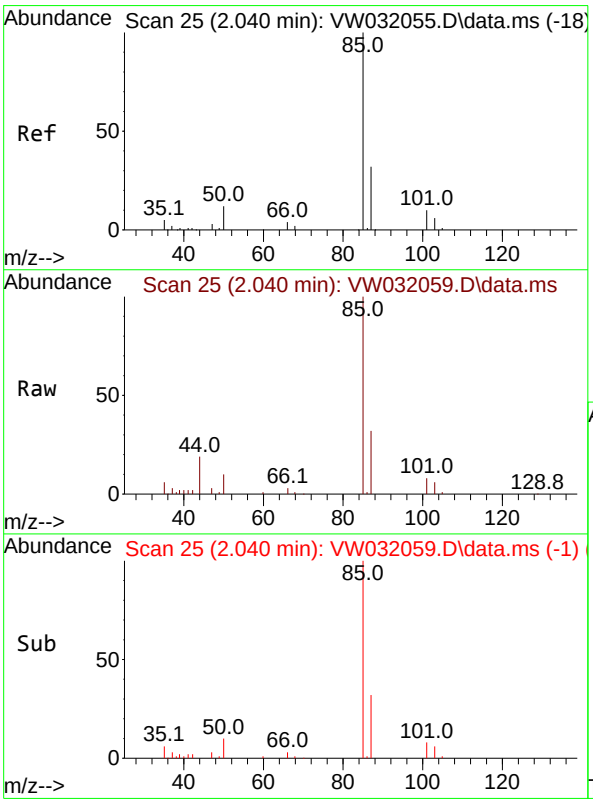
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:168 Resp: 226453

Ion	Ratio	Lower	Upper
168	100		
99	65.5	56.0	84.0

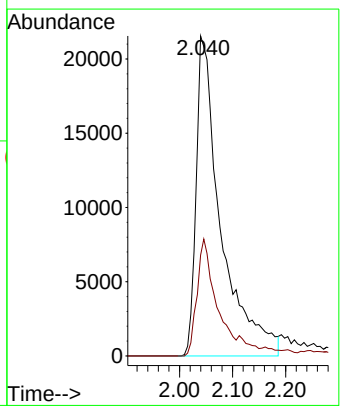


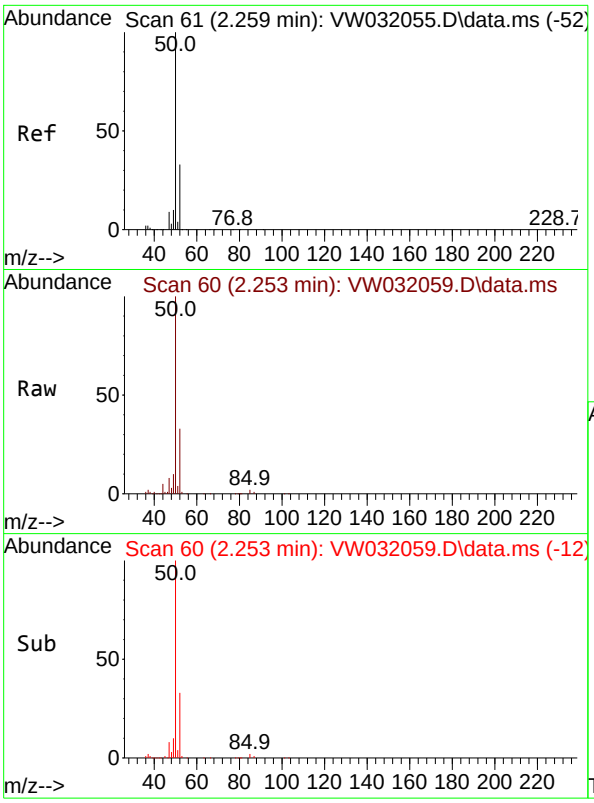


#2
Dichlorodifluoromethane
Concen: 43.069 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 85 Resp: 69757

Ion	Ratio	Lower	Upper
85	100		
87	31.5	16.2	48.6



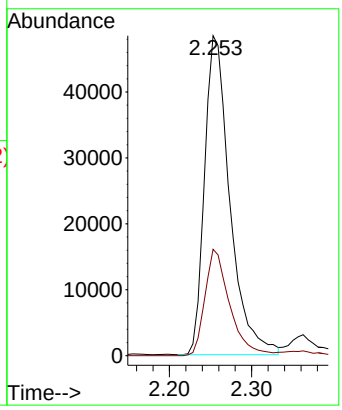


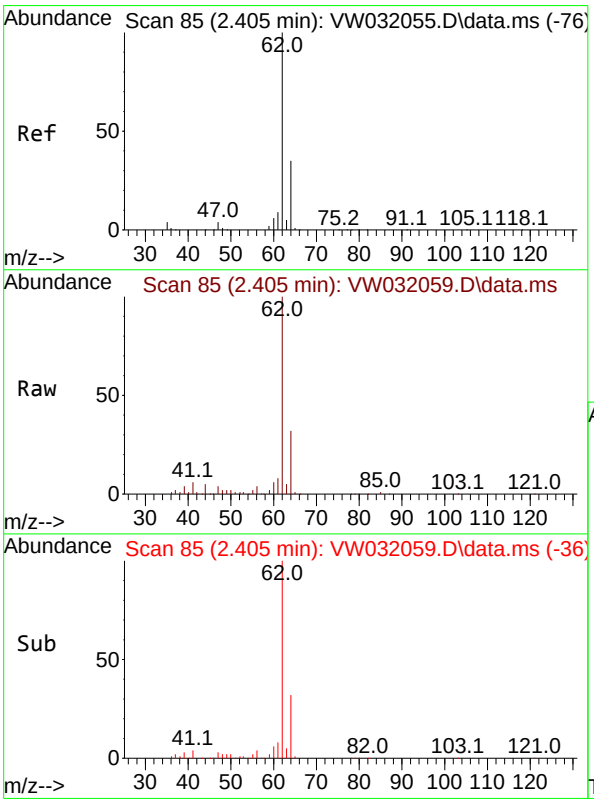
#3
Chloromethane
Concen: 47.474 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 50 Resp: 103574

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.6	39.8

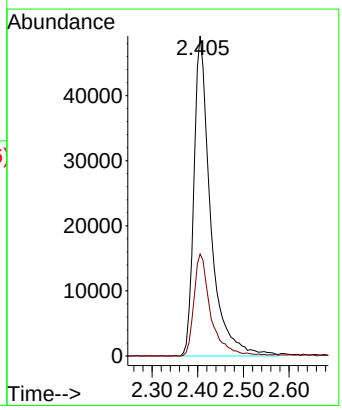


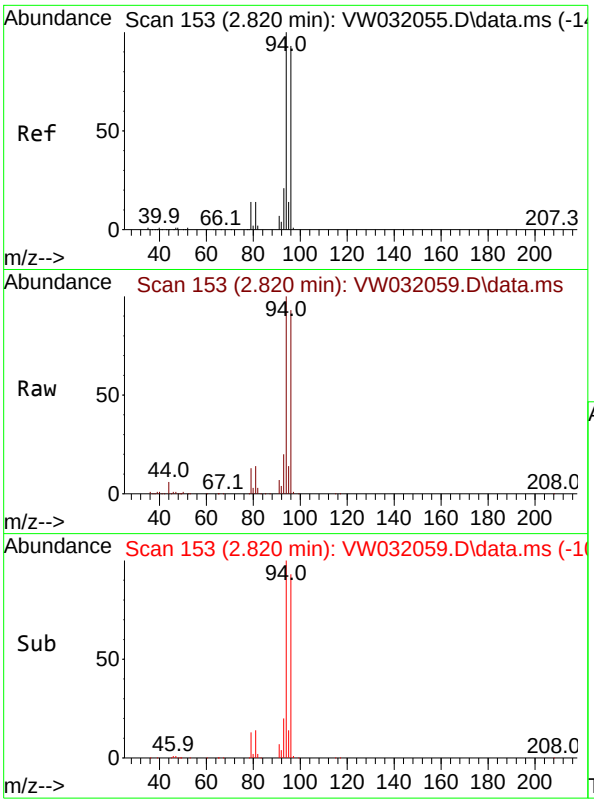


#4
Vinyl Chloride
Concen: 47.096 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 124287

Ion	Ratio	Lower	Upper
62	100		
64	31.9	27.8	41.6



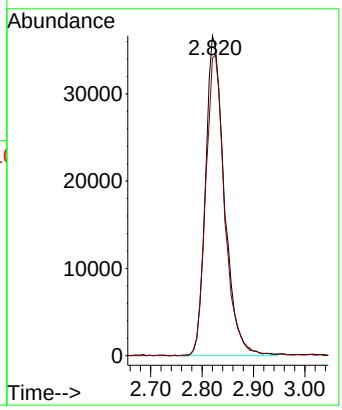


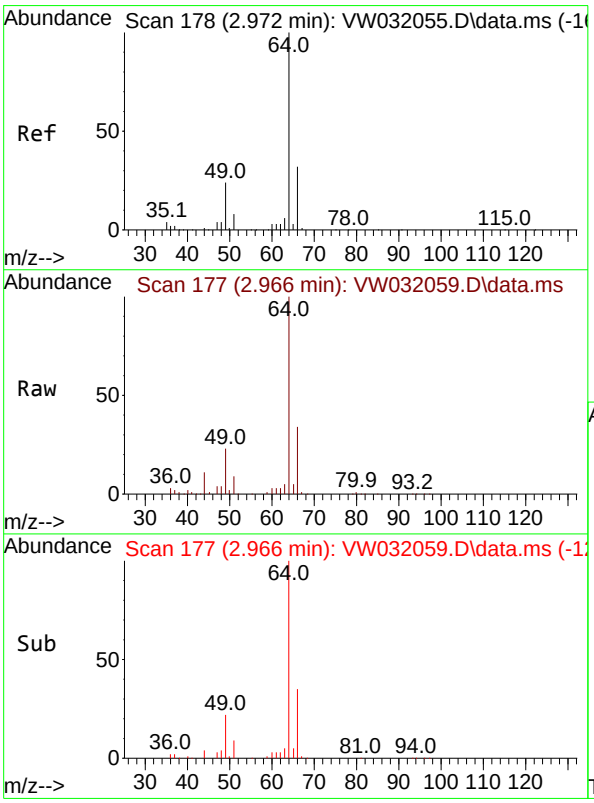
#5
Bromomethane
Concen: 47.201 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 94 Resp: 93451

Ion	Ratio	Lower	Upper
94	100		
96	93.0	74.7	112.1

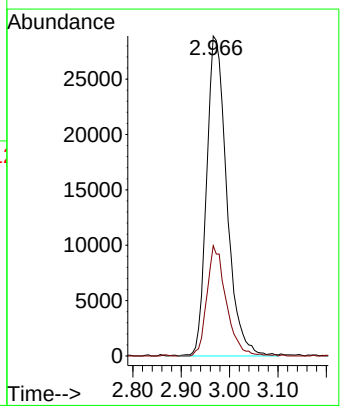


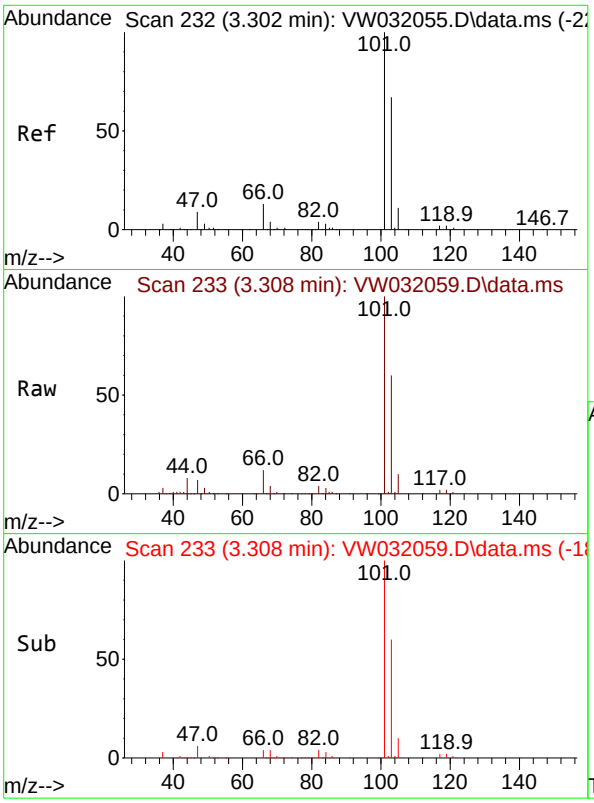


#6
Chloroethane
Concen: 47.858 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 64 Resp: 83573

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.0	39.0



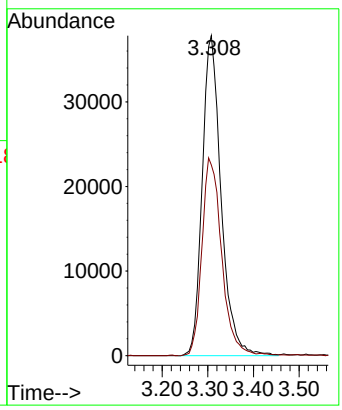


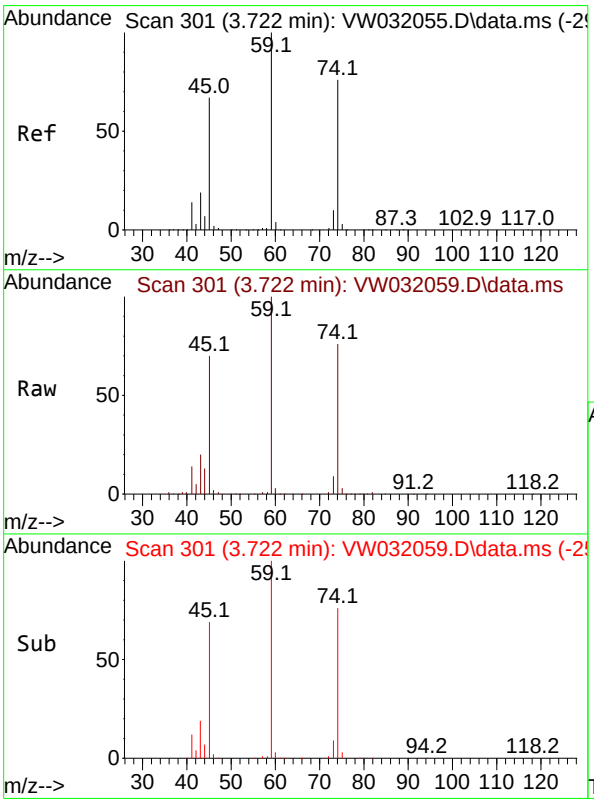
#7
Trichlorofluoromethane
Concen: 51.386 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:101 Resp: 108634

Ion	Ratio	Lower	Upper
101	100		
103	59.6	53.4	80.0

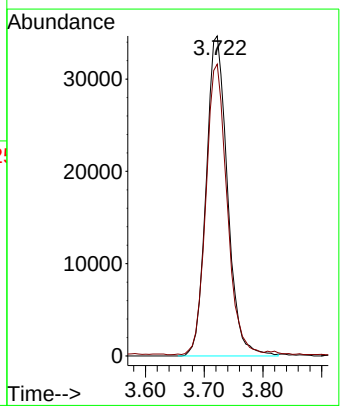


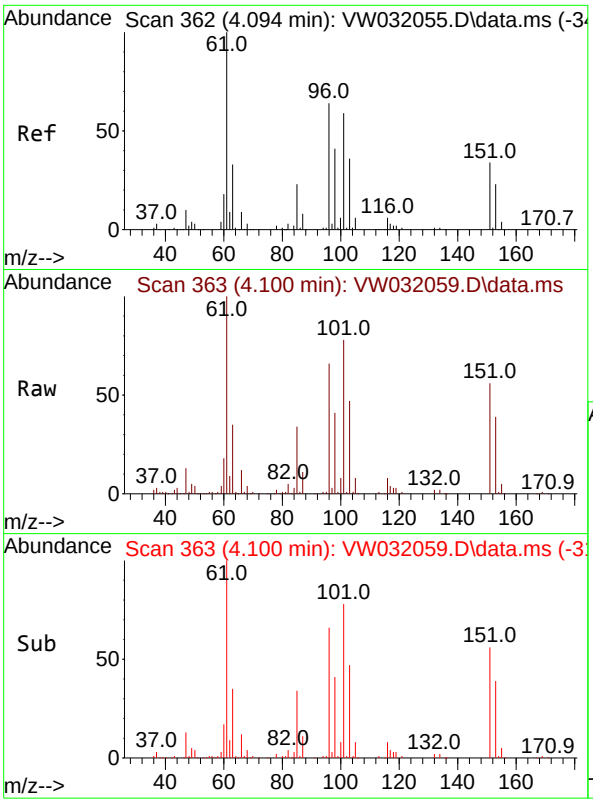


#8
Diethyl Ether
Concen: 50.380 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 74 Resp: 87261

Ion	Ratio	Lower	Upper
74	100		
45	90.2	45.4	136.2



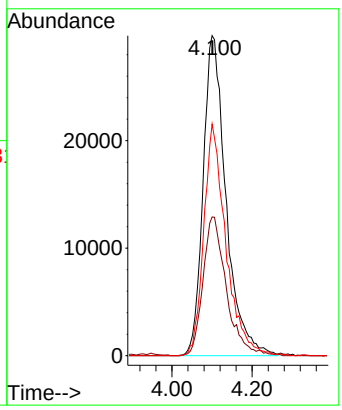


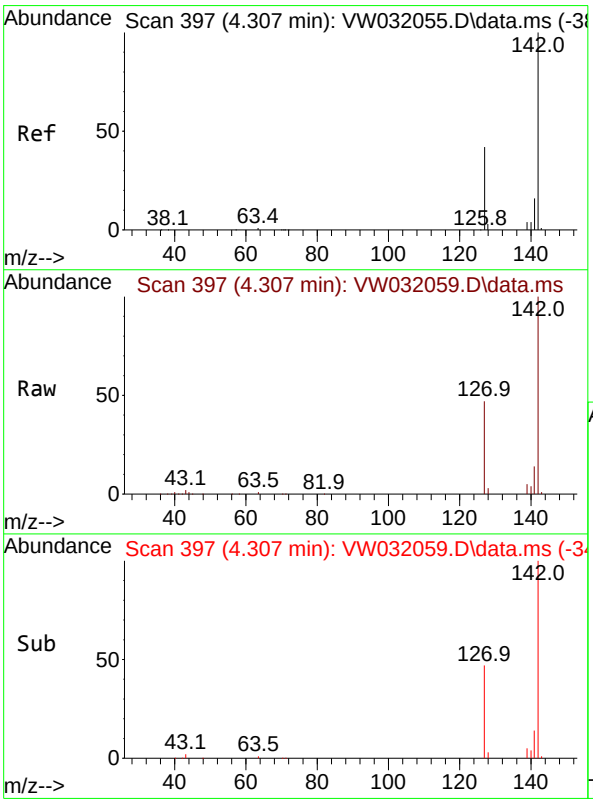
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.316 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

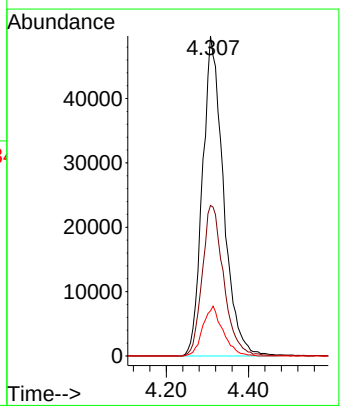


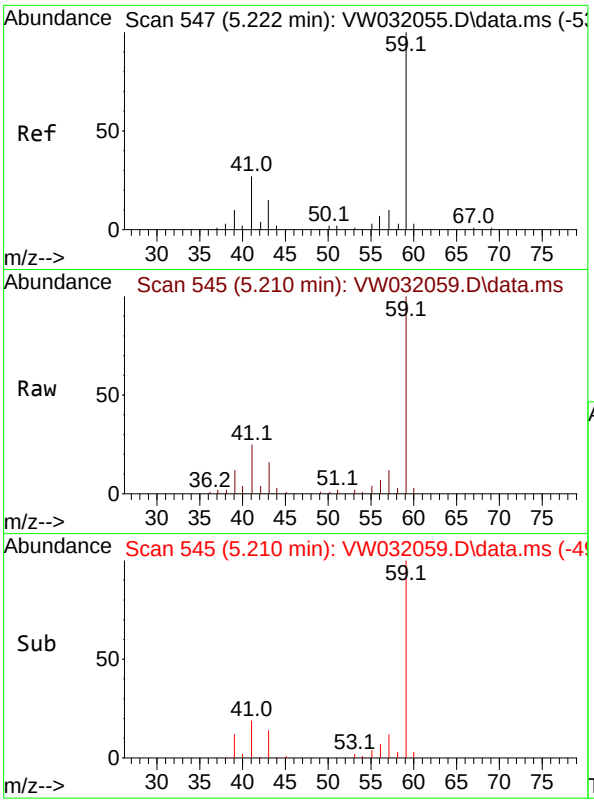


#10
Methyl Iodide
Concen: 49.742 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



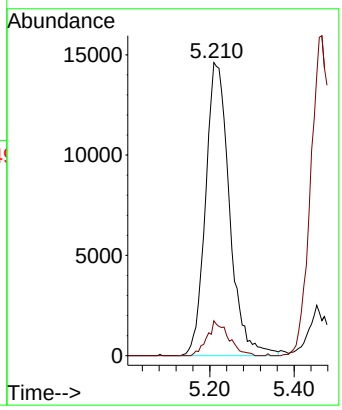


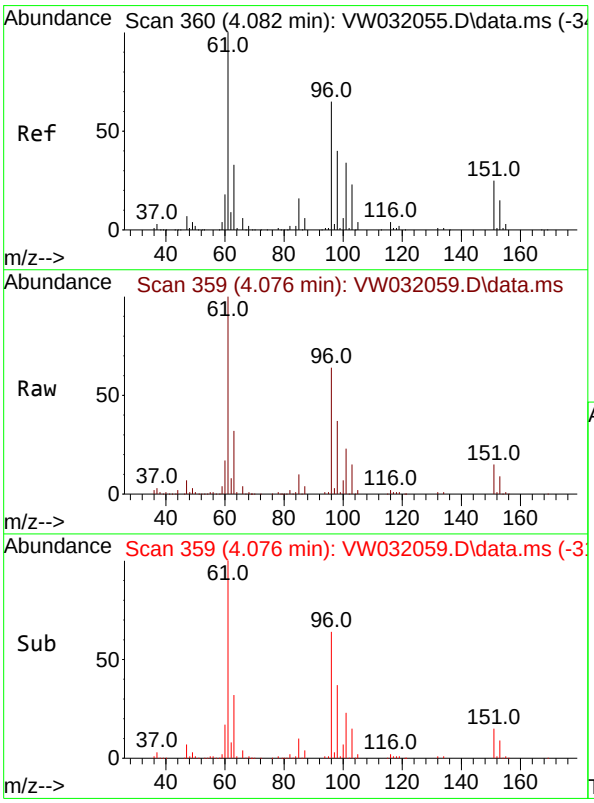
#11
Tert butyl alcohol
Concen: 271.910 ug/l
RT: 5.210 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 59 Resp: 57666

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

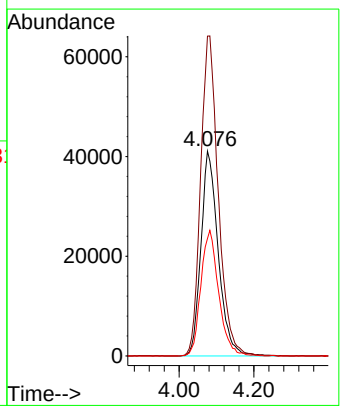


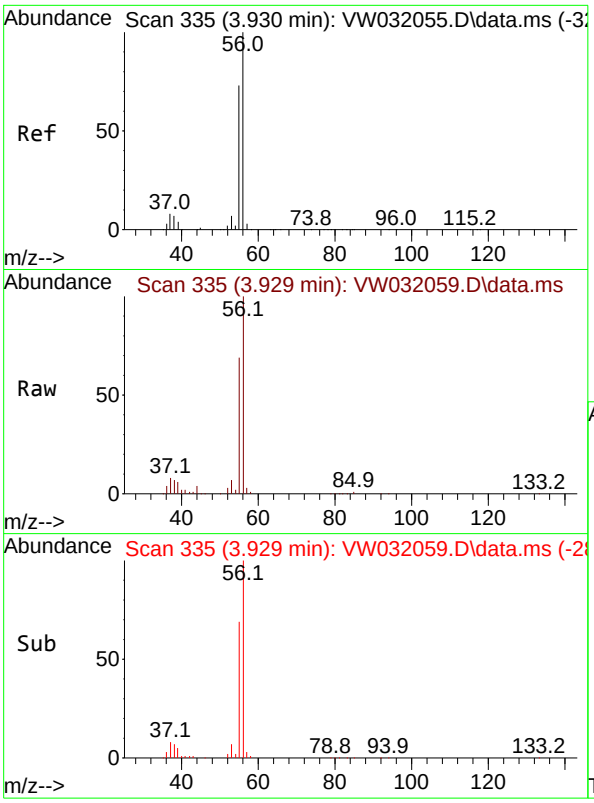


#12
1,1-Dichloroethene
Concen: 47.992 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



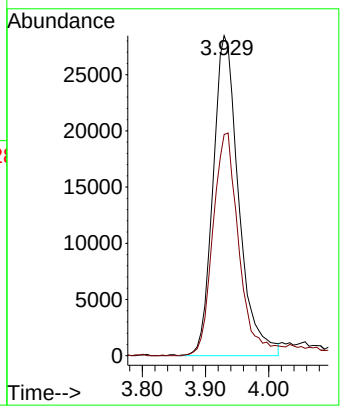


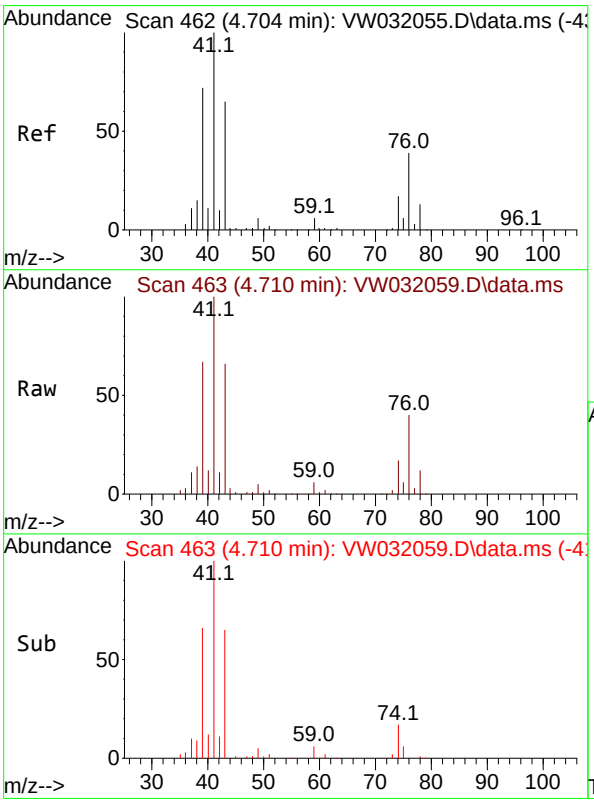
#13
Acrolein
Concen: 236.960 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 56 Resp: 80072

Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.4	83.2

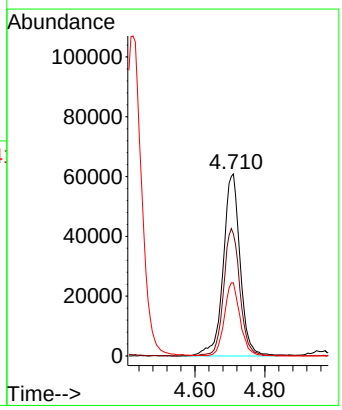


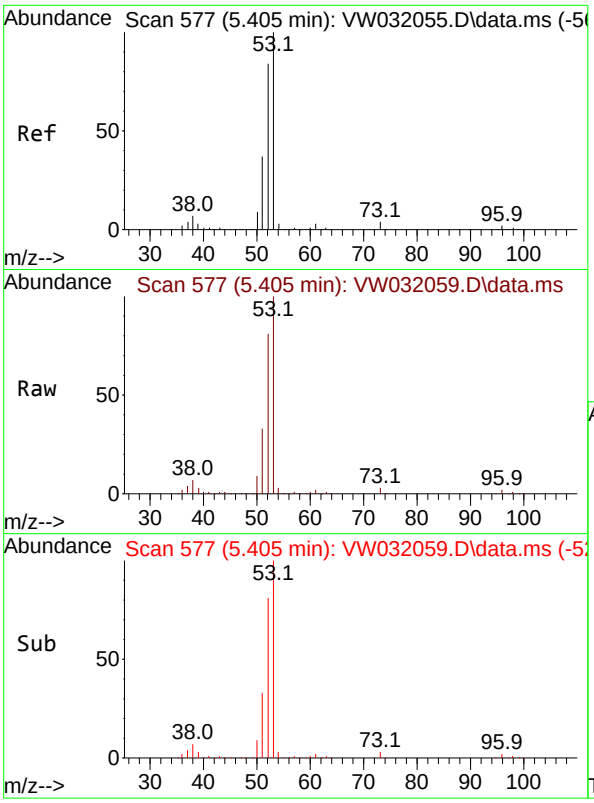


#14
Allyl chloride
Concen: 51.094 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



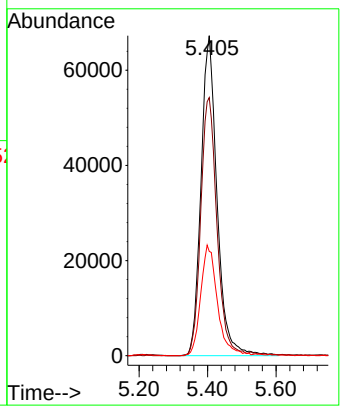


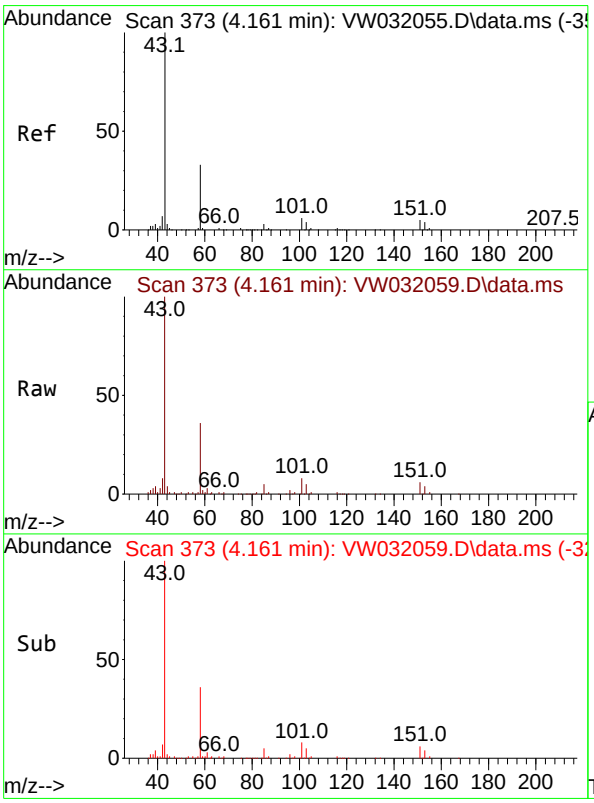
#15
Acrylonitrile
Concen: 265.958 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

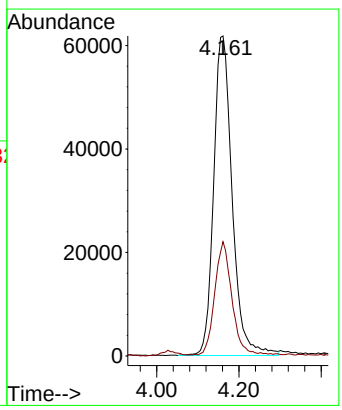


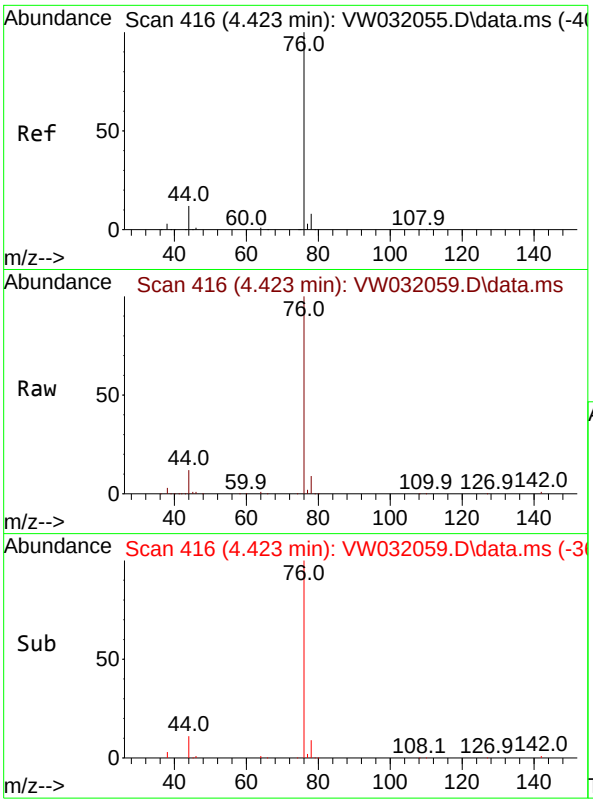


#16
Acetone
Concen: 254.262 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 192802

Ion	Ratio	Lower	Upper
43	100		
58	35.1	26.6	39.8



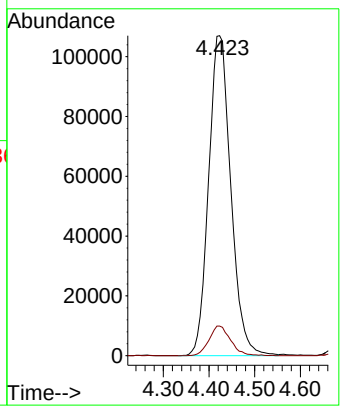


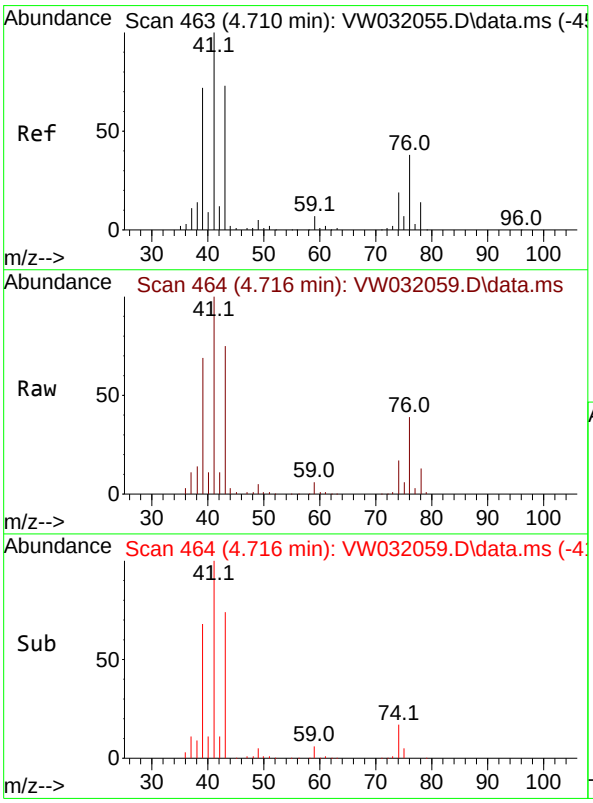
#17
Carbon Disulfide
Concen: 48.970 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 76 Resp: 360982

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.4	9.6

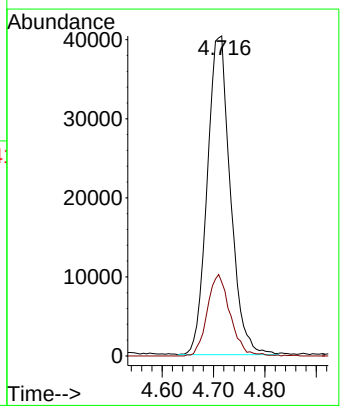


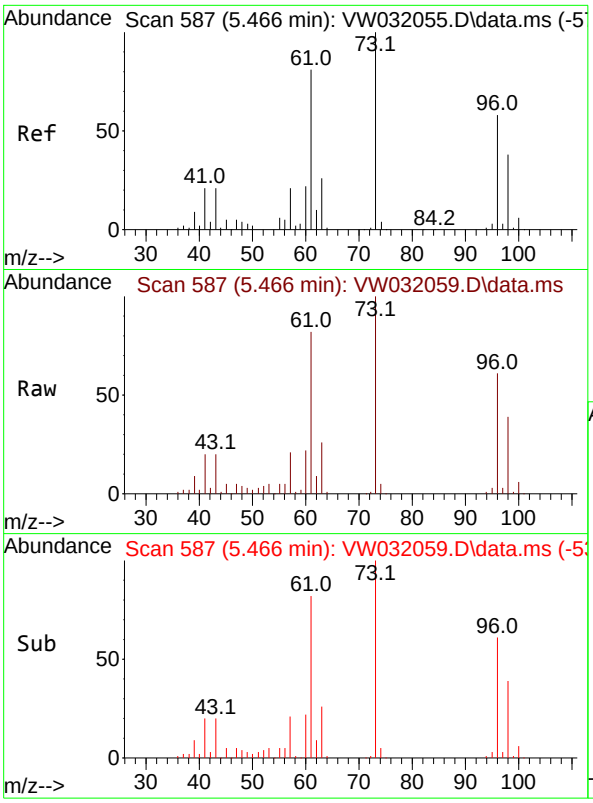


#18
Methyl Acetate
Concen: 52.614 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 126246

Ion	Ratio	Lower	Upper
43	100		
74	25.3	20.6	31.0



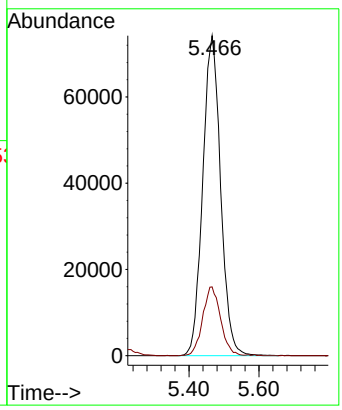


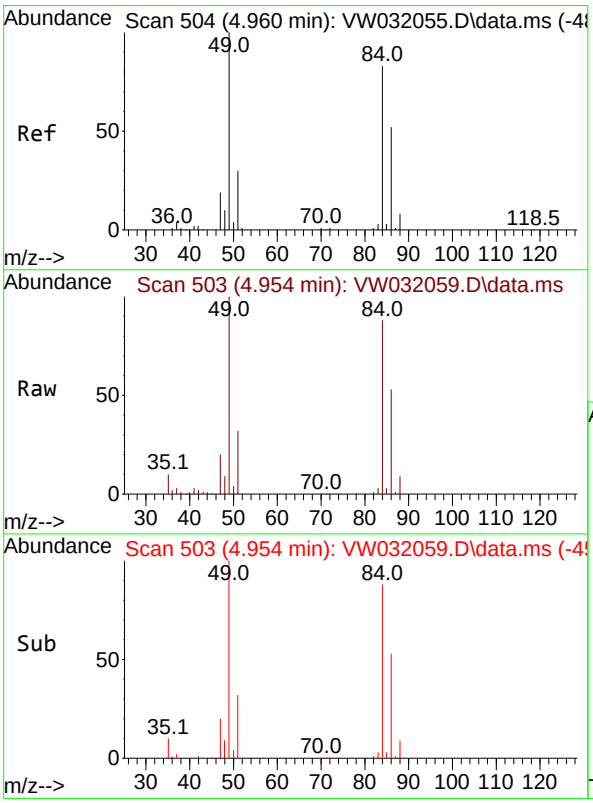
#19
Methyl tert-butyl Ether
Concen: 54.465 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 73 Resp: 263546

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8

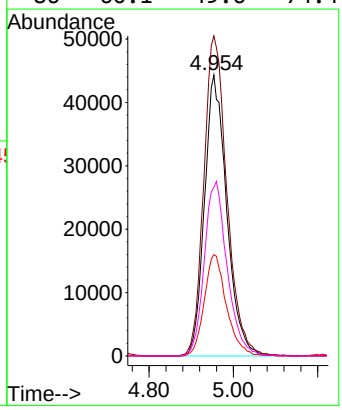


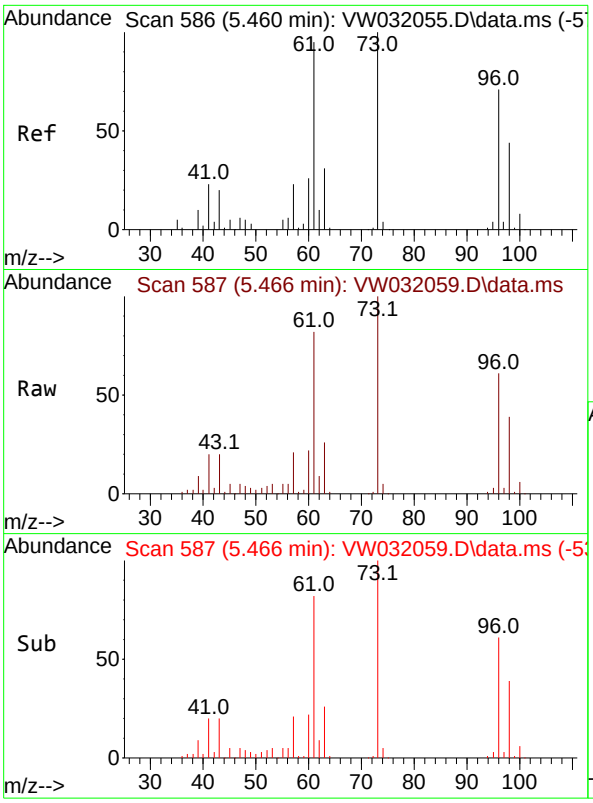


#20
Methylene Chloride
Concen: 46.453 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



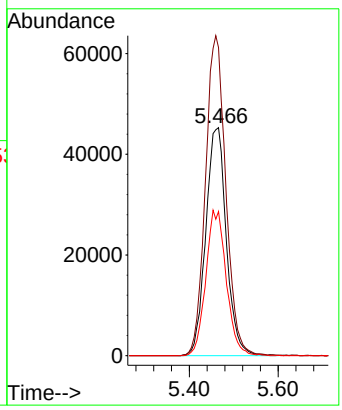


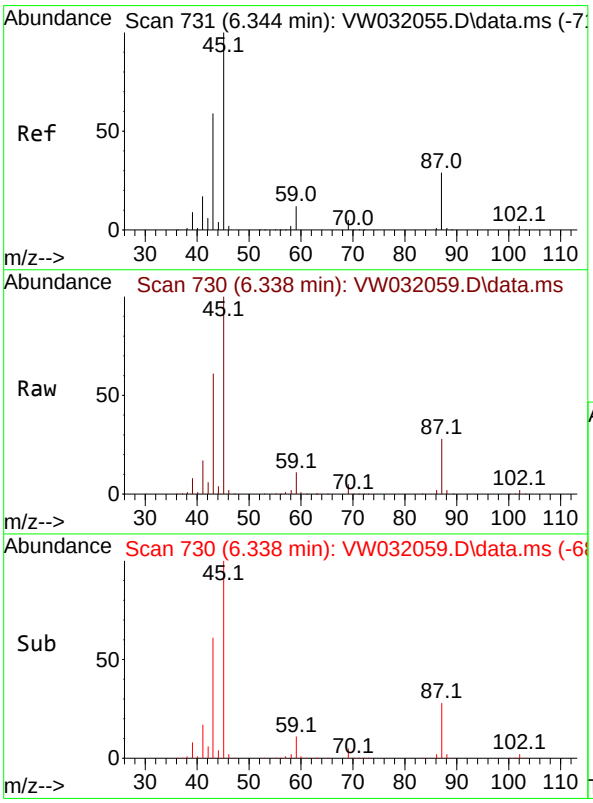
#21
trans-1,2-Dichloroethene
Concen: 50.035 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

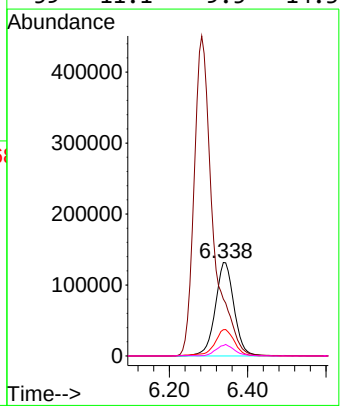


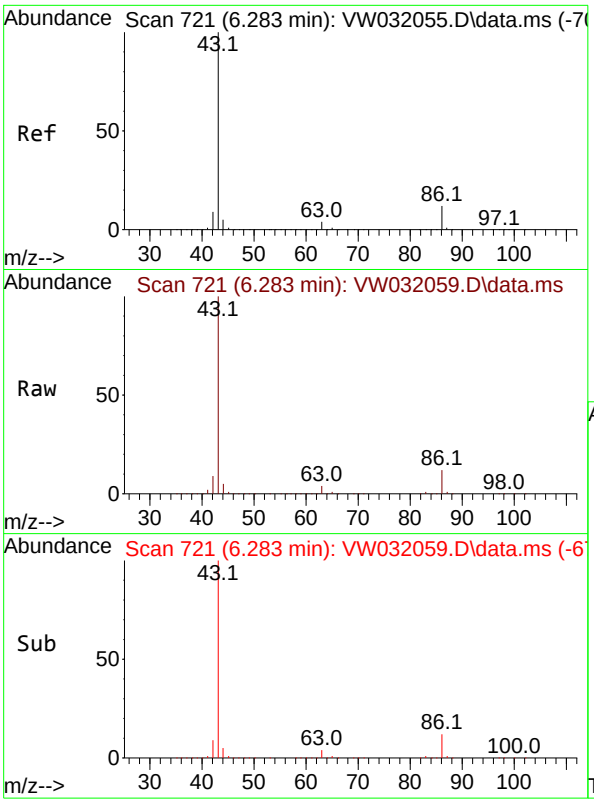


#22
Diisopropyl ether
Concen: 52.038 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



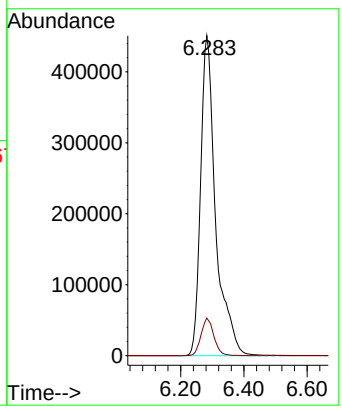


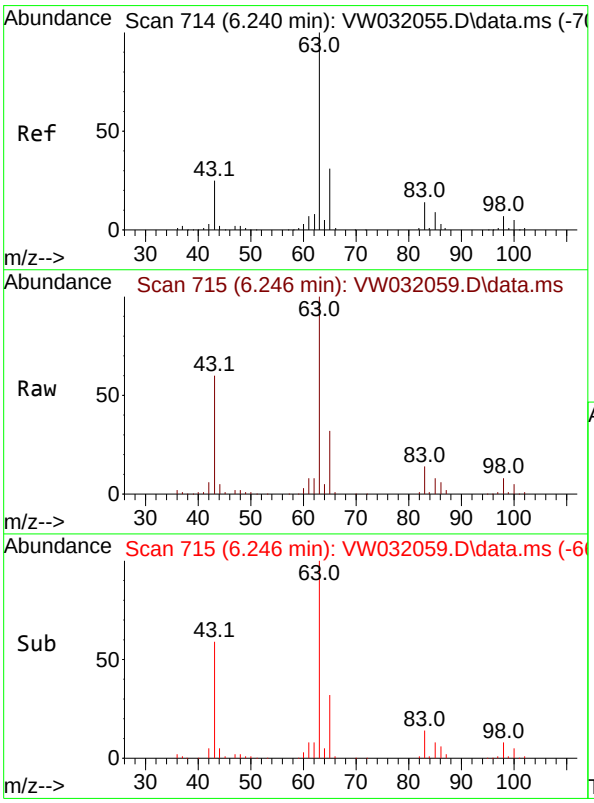
#23
Vinyl Acetate
Concen: 270.210 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 1494873

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.4	14.0

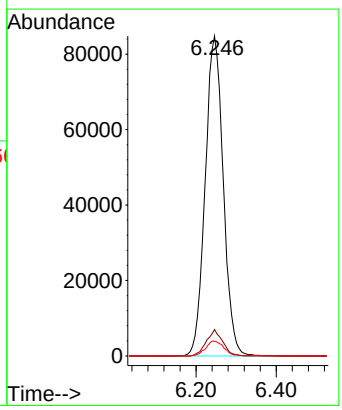


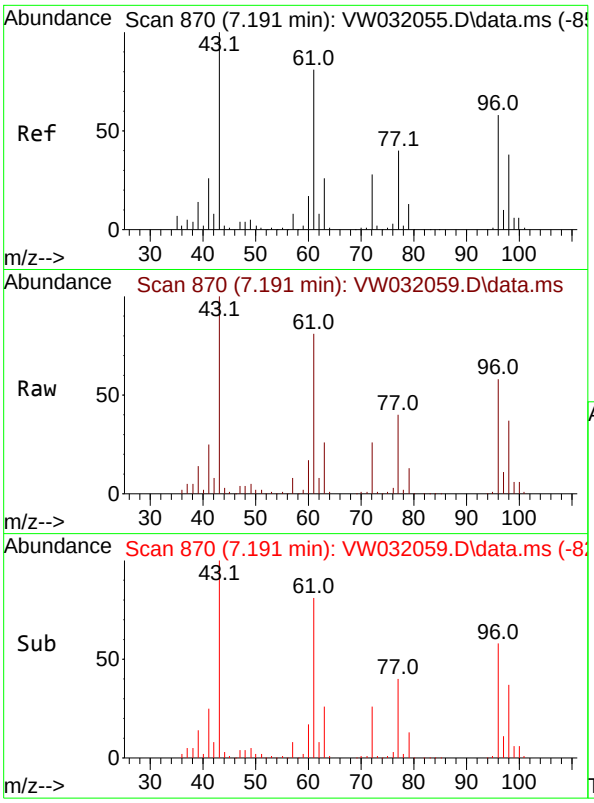


#24
1,1-Dichloroethane
Concen: 49.234 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



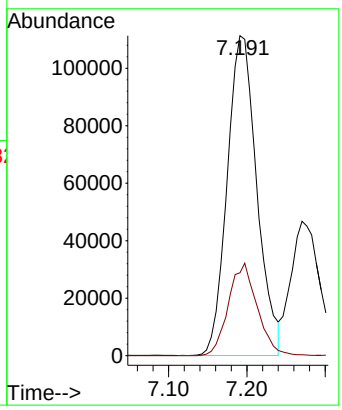


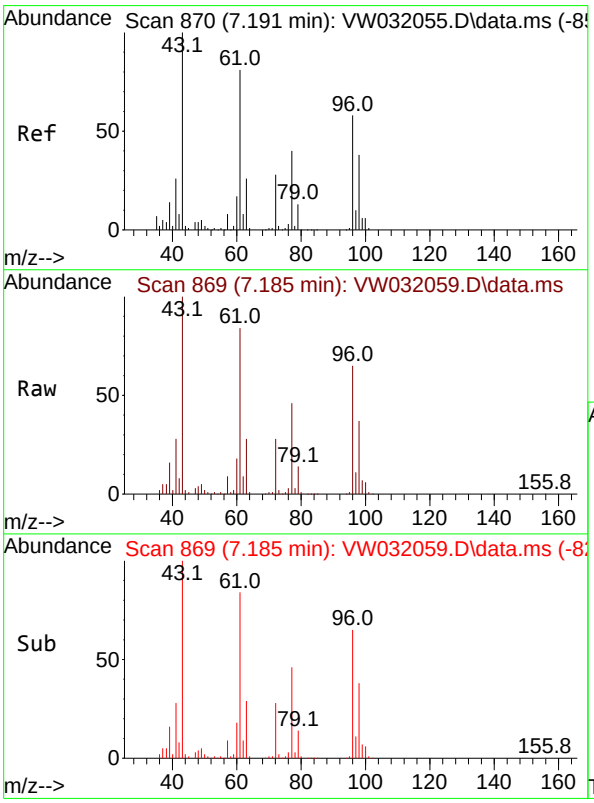
#25
2-Butanone
Concen: 272.083 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 293227

Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.3	33.5

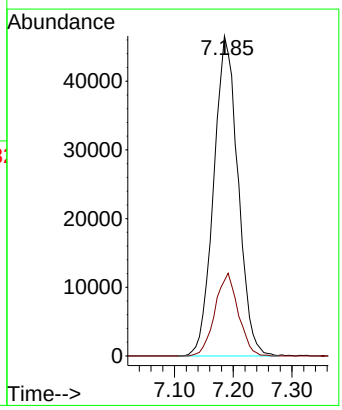


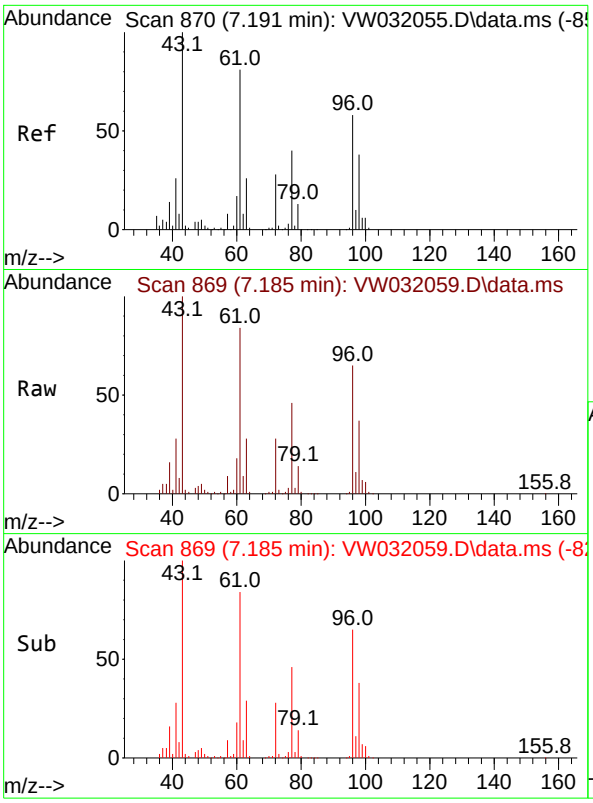


#26
2,2-Dichloropropane
Concen: 49.659 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 77 Resp: 134123

Ion	Ratio	Lower	Upper
77	100		
97	24.7	12.3	36.9



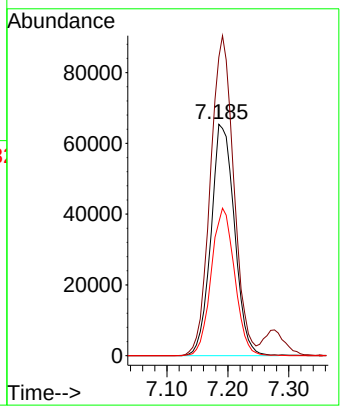


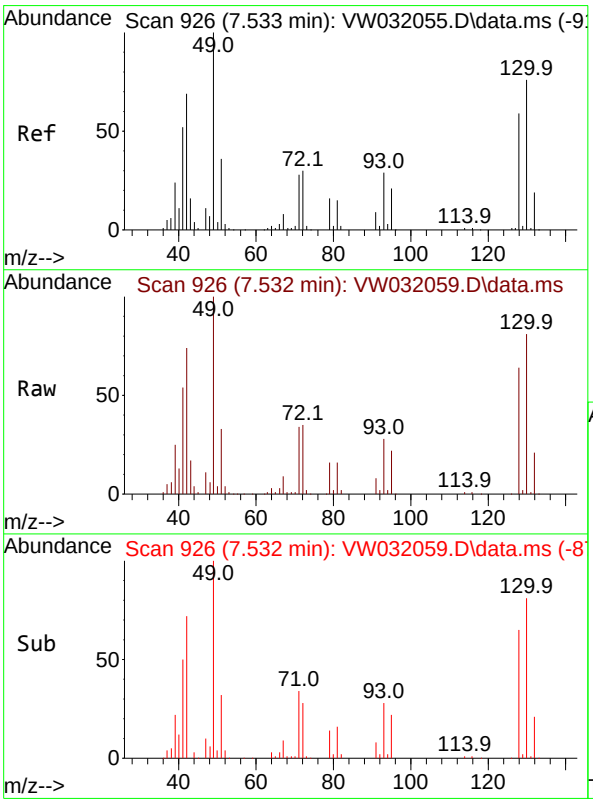
#27
cis-1,2-Dichloroethene
Concen: 51.404 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

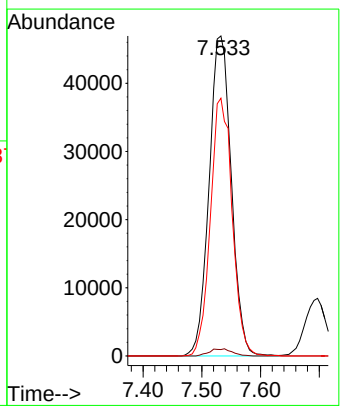


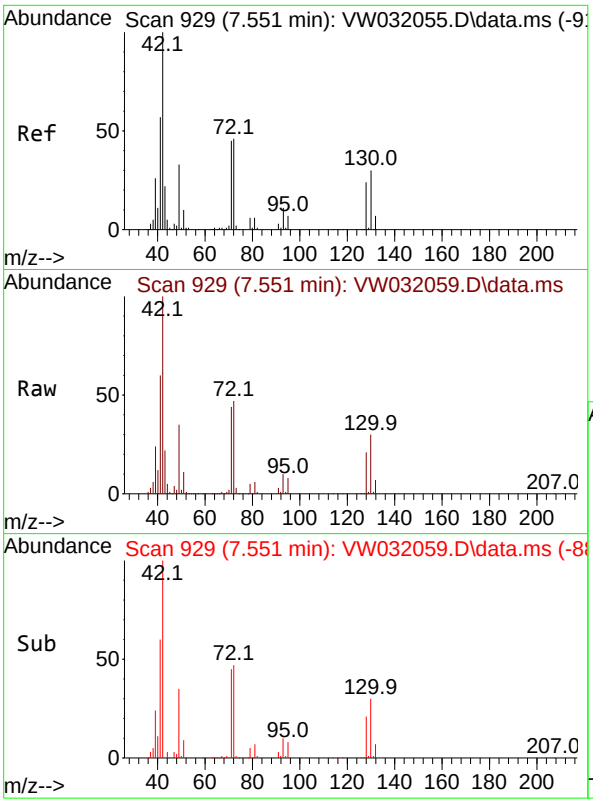


#28
Bromochloromethane
Concen: 50.315 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



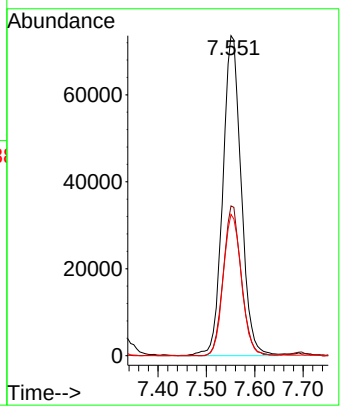


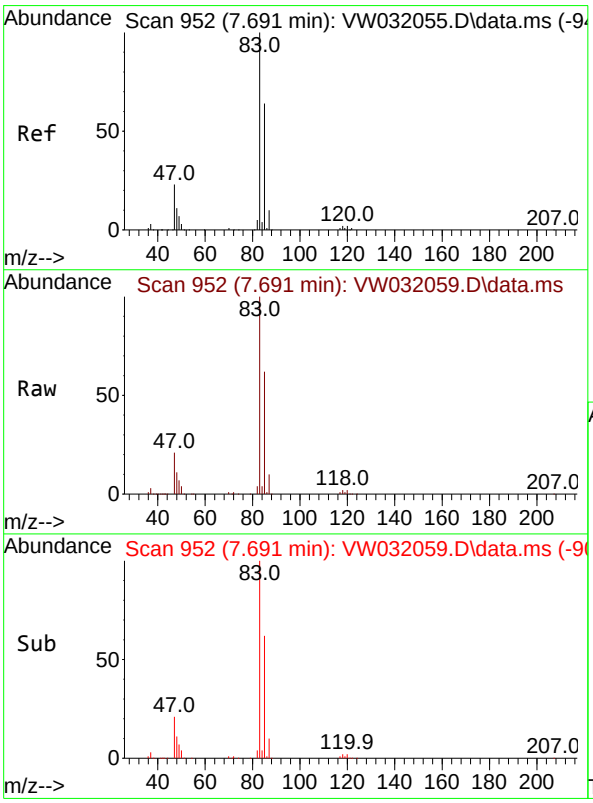
#29
Tetrahydrofuran
Concen: 274.235 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

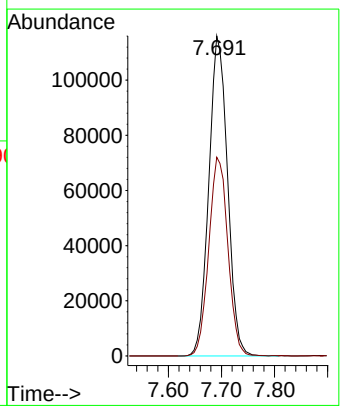


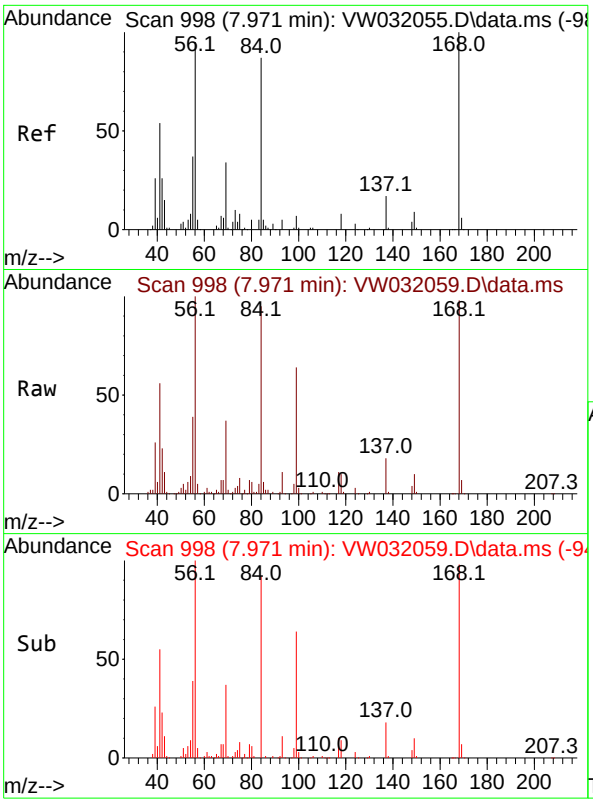


#30
Chloroform
Concen: 49.803 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 284250

Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.0	76.4



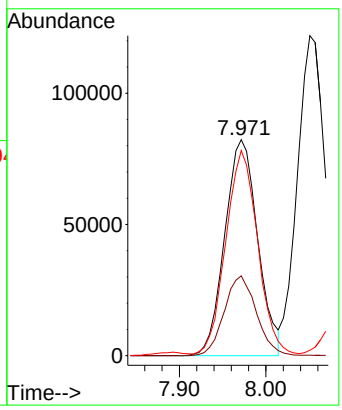


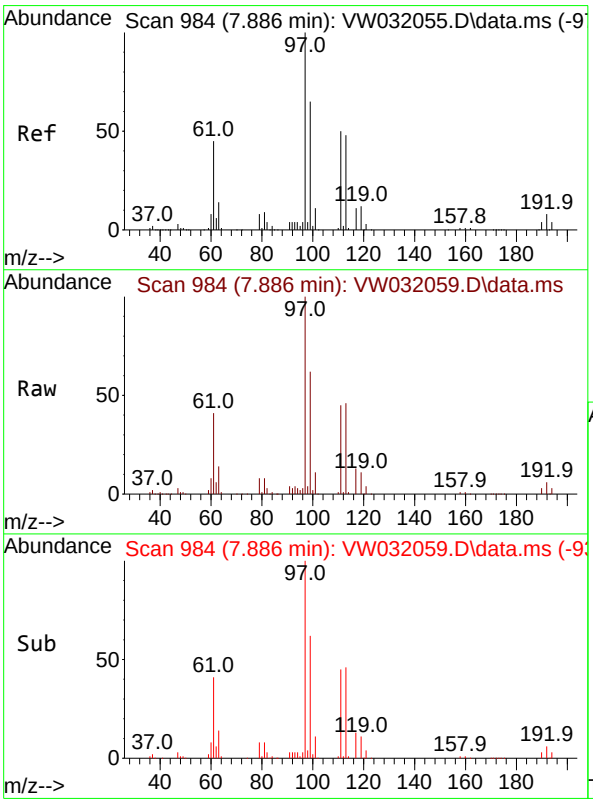
#31
Cyclohexane
Concen: 46.646 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

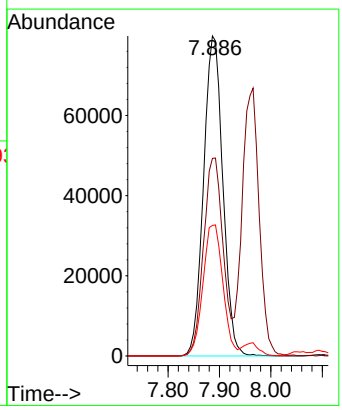


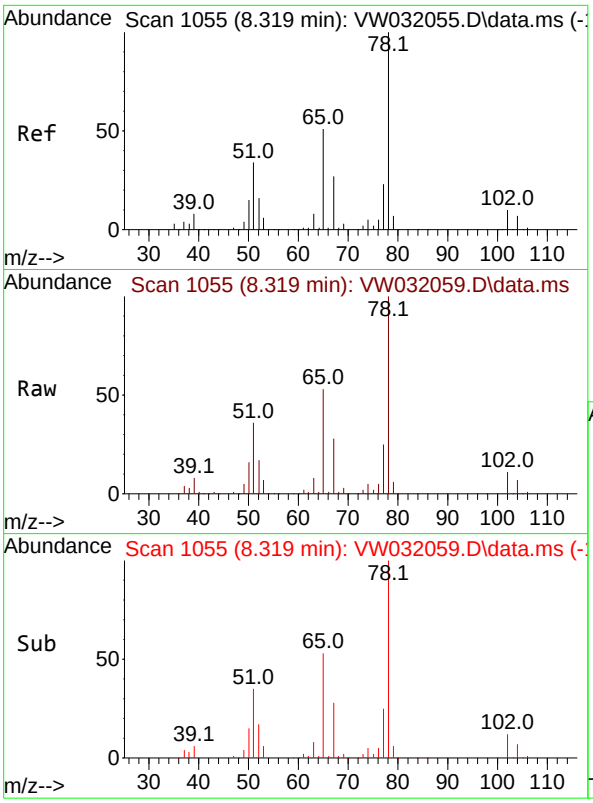


#32
1,1,1-Trichloroethane
Concen: 50.108 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



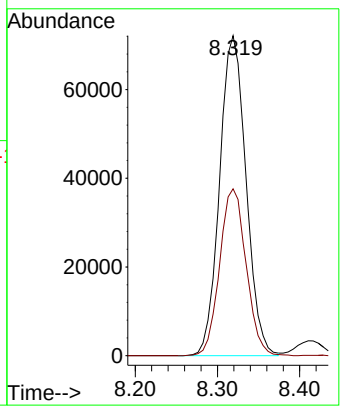


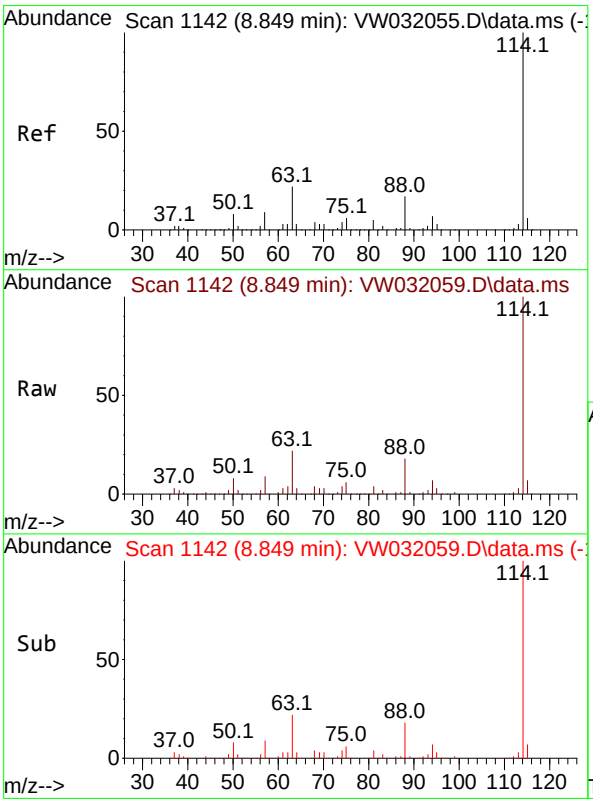
#33
1,2-Dichloroethane-d4
Concen: 49.205 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 65 Resp: 161155

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.4

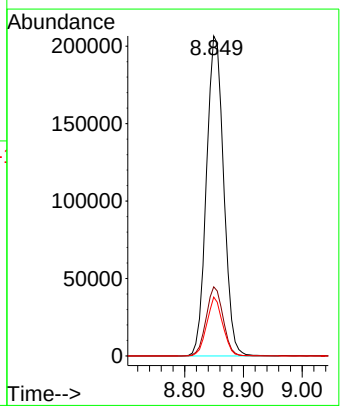


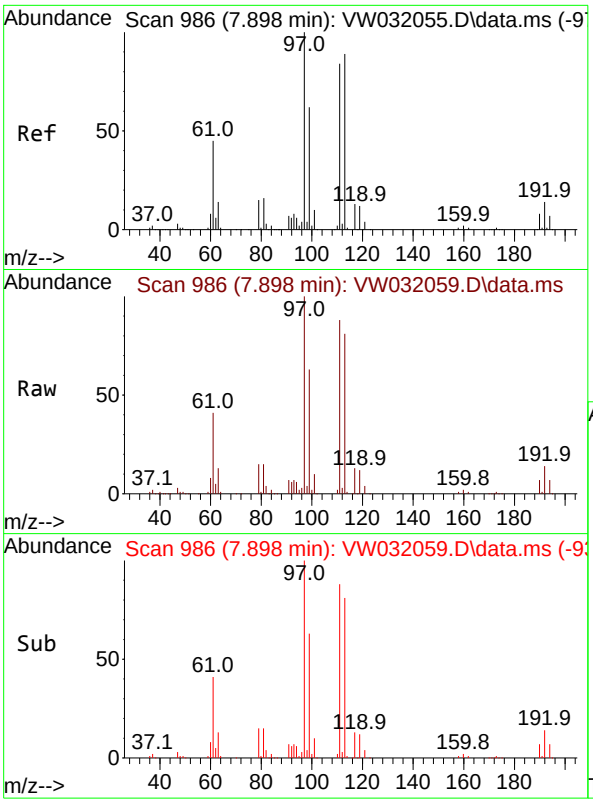


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



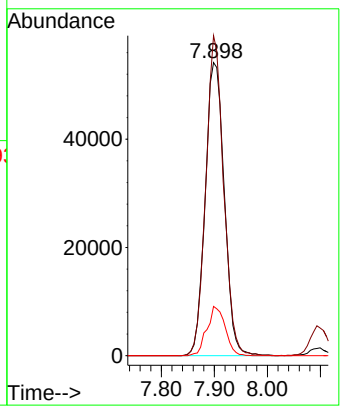


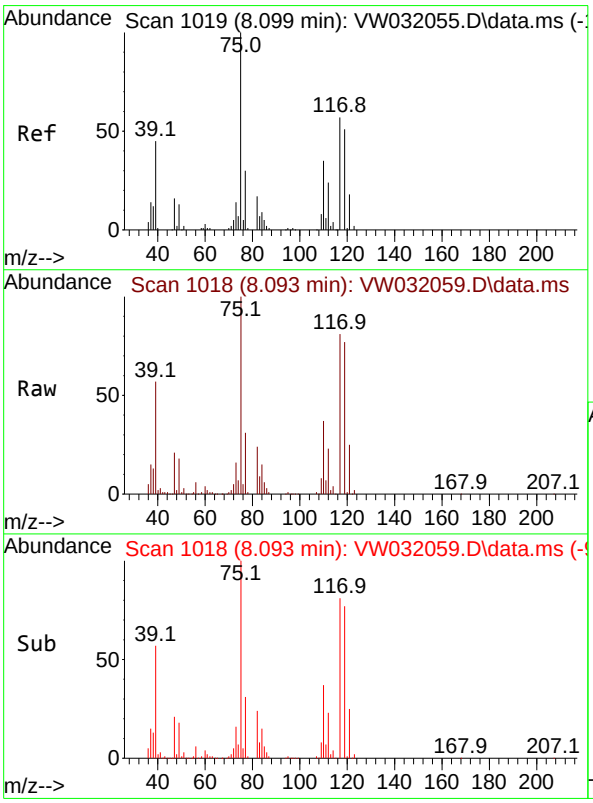
#35
Dibromofluoromethane
Concen: 49.939 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

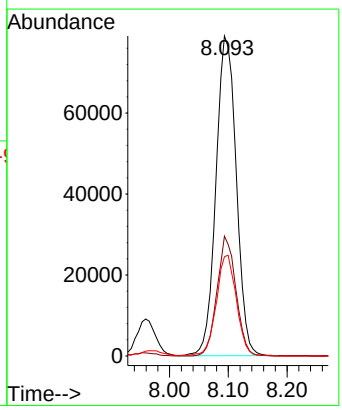


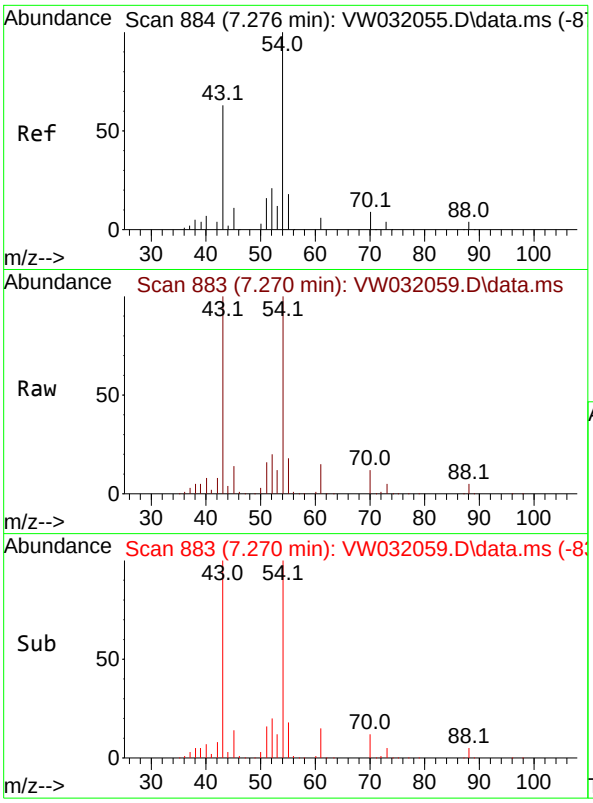


#36
1,1-Dichloropropene
Concen: 49.574 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



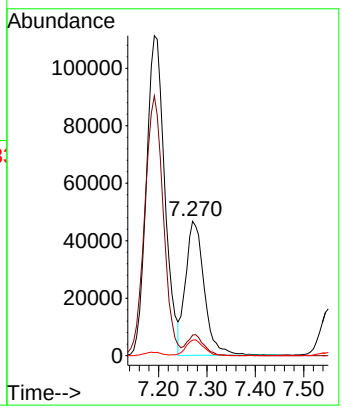


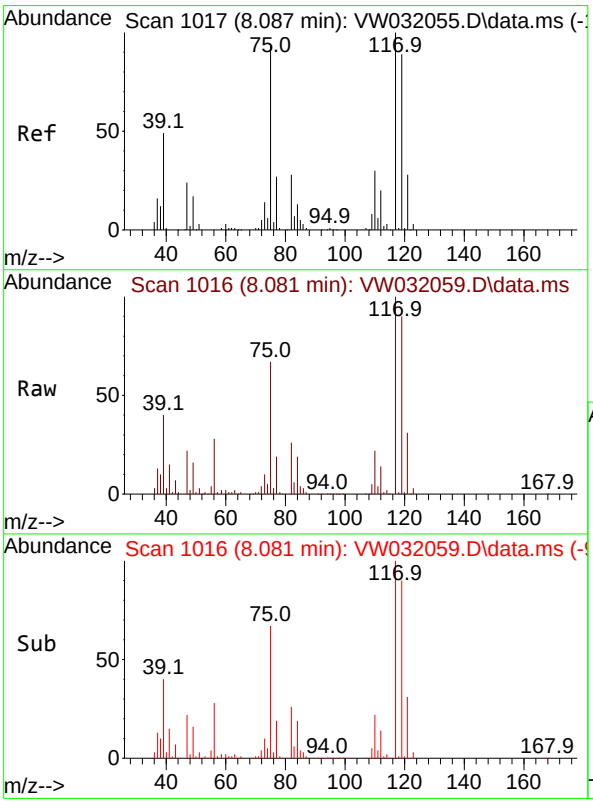
#37
Ethyl Acetate
Concen: 55.214 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

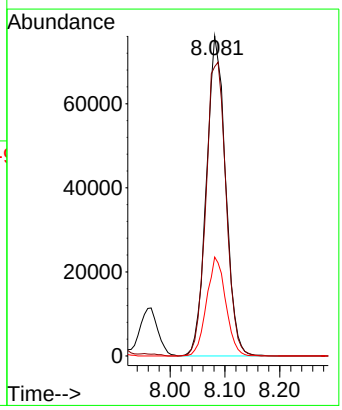


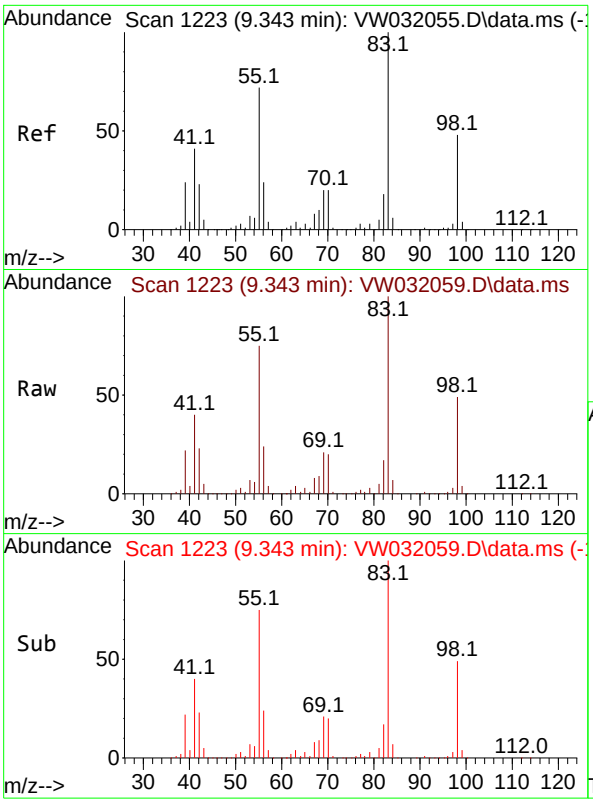


#38
Carbon Tetrachloride
Concen: 50.015 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



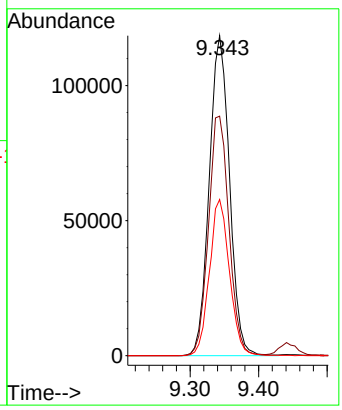


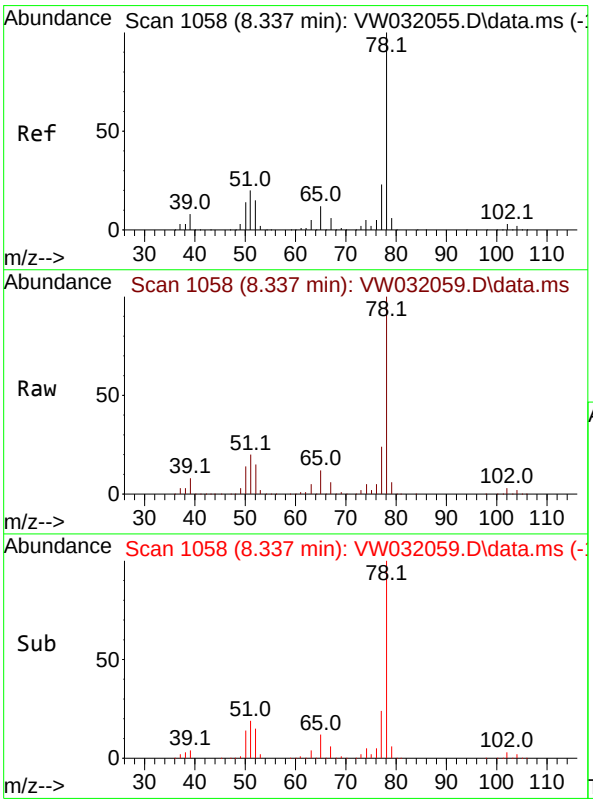
#39
Methylcyclohexane
Concen: 52.181 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

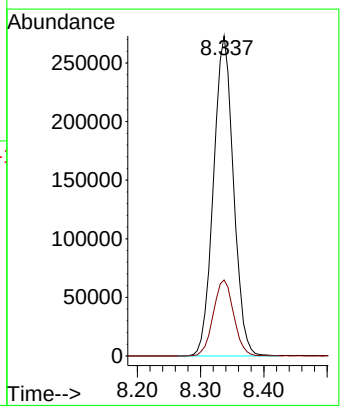


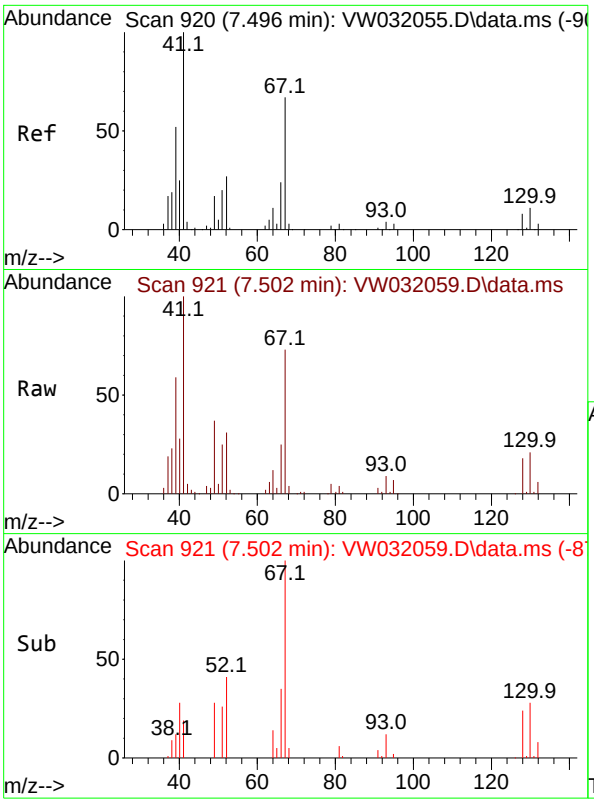


#40
Benzene
Concen: 50.272 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 78 Resp: 598350

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.4	27.6



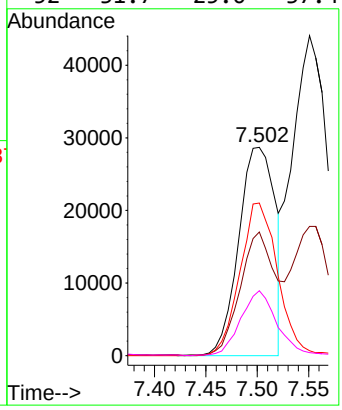


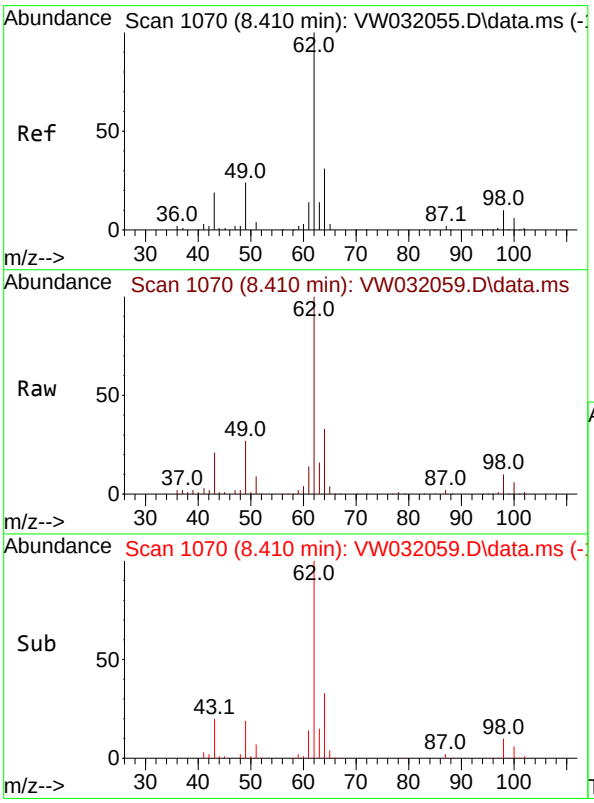
#41
Methacrylonitrile
Concen: 55.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

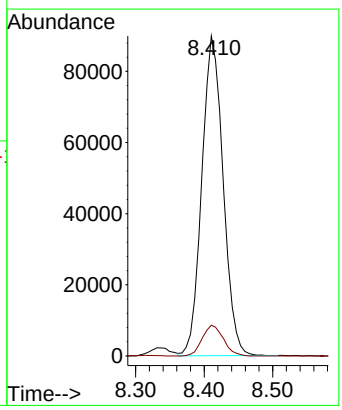


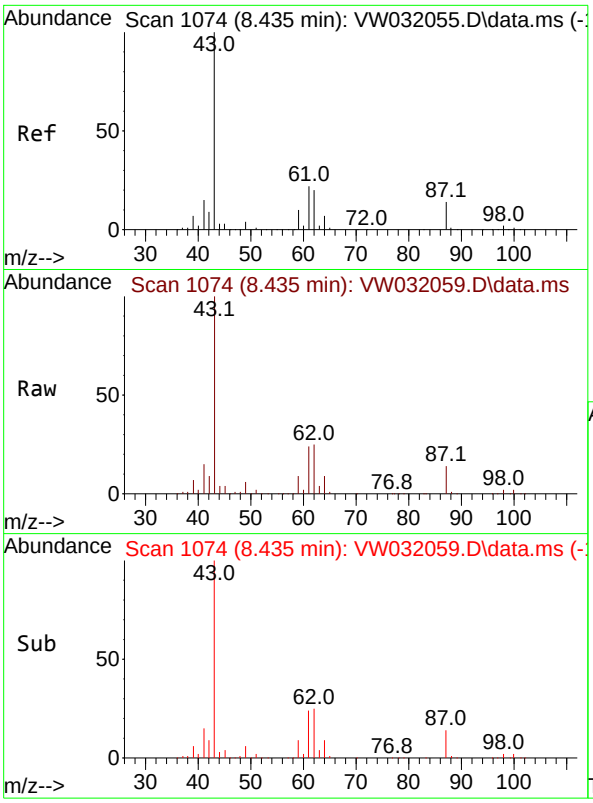


#42
1,2-Dichloroethane
Concen: 51.154 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 194825

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.8



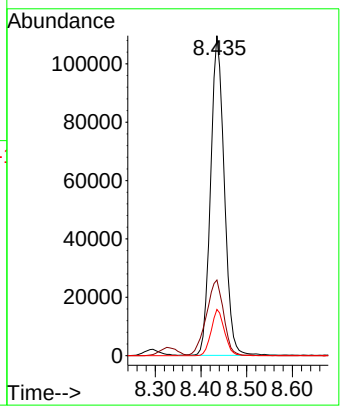


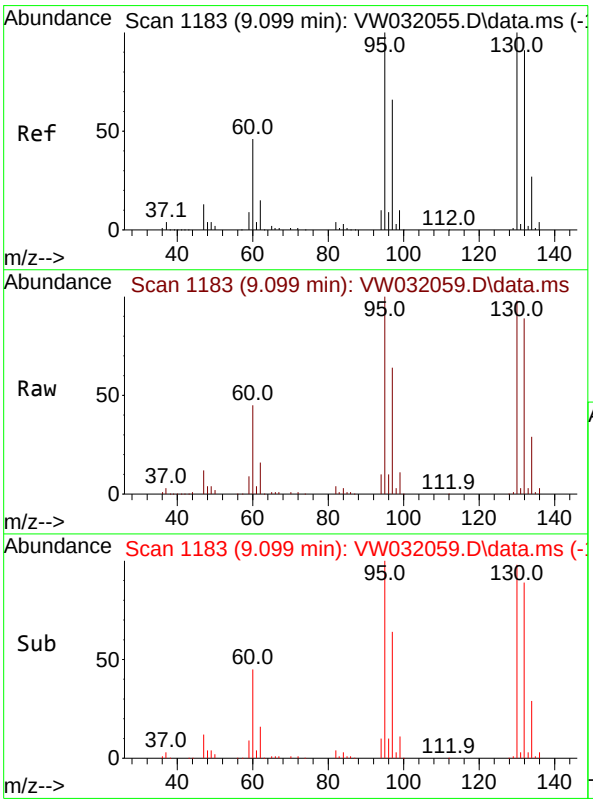
#43
Isopropyl Acetate
Concen: 54.846 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

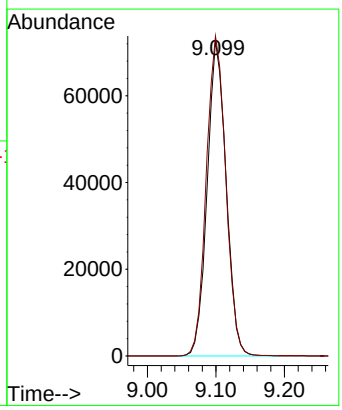


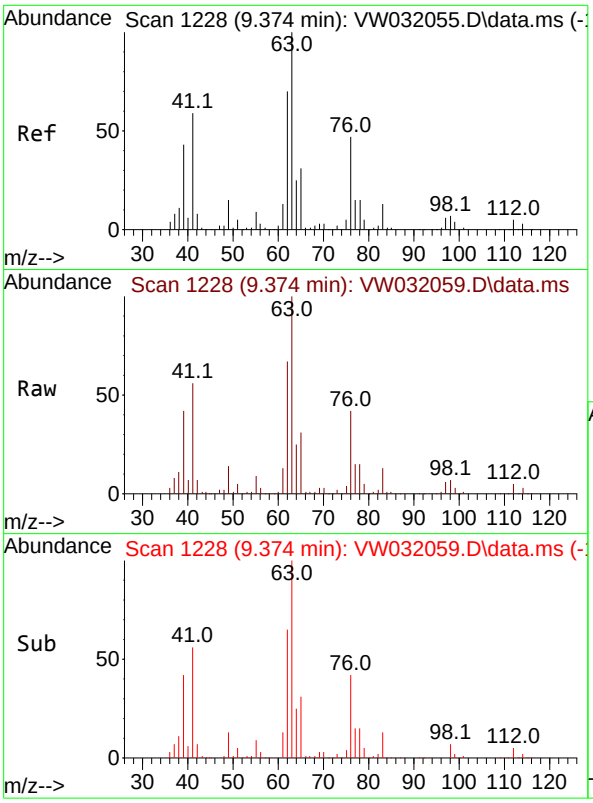


#44
Trichloroethene
Concen: 49.175 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:130 Resp: 139383

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	200.6



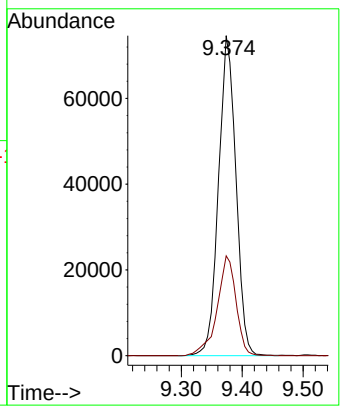


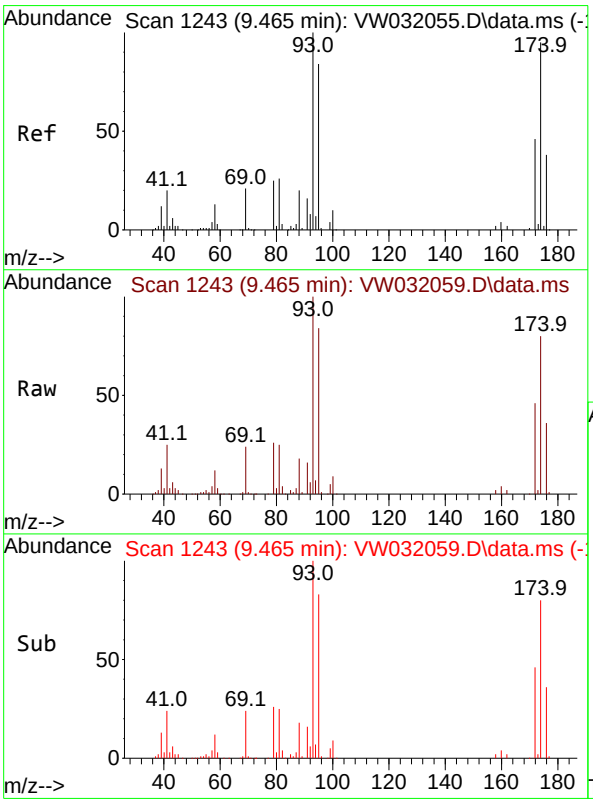
#45
1,2-Dichloropropane
Concen: 51.403 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 63 Resp: 147807

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.6	36.8

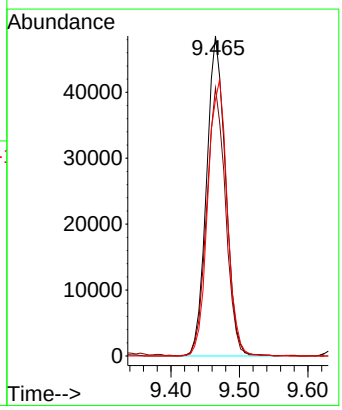


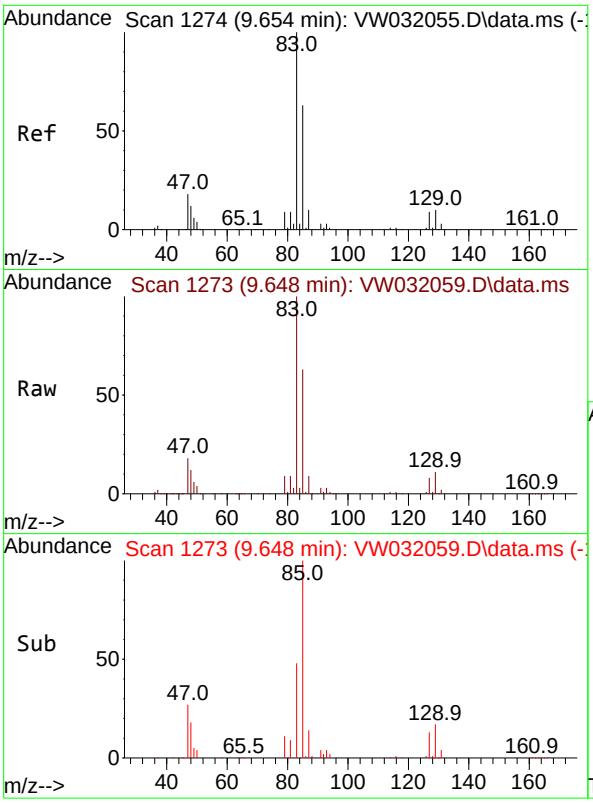


#46
Dibromomethane
Concen: 50.497 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



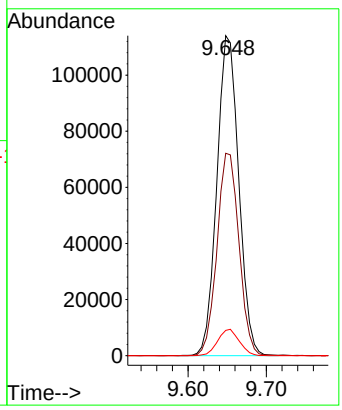


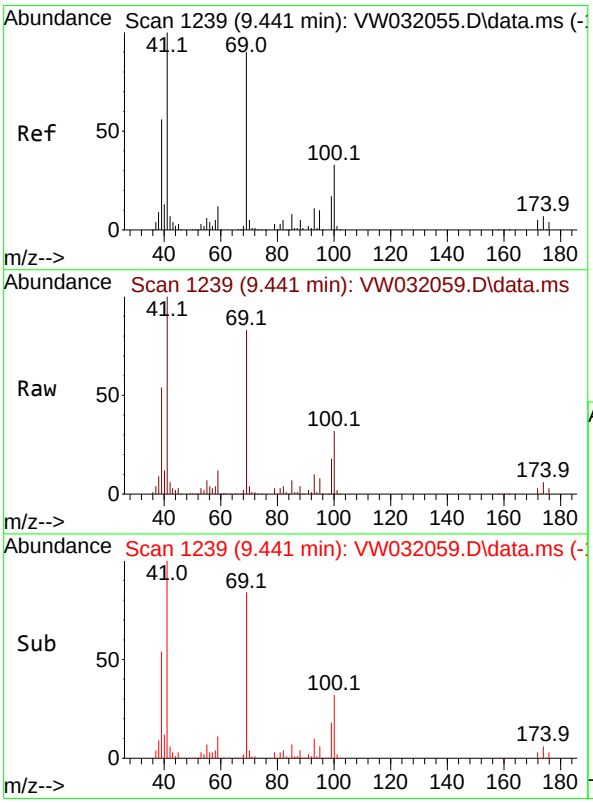
#47
Bromodichloromethane
Concen: 51.775 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

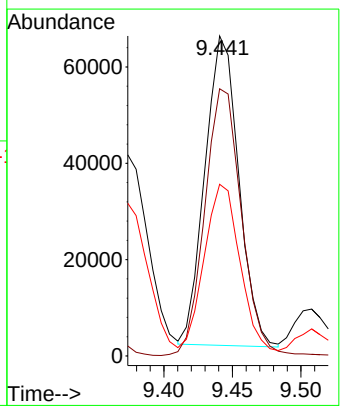


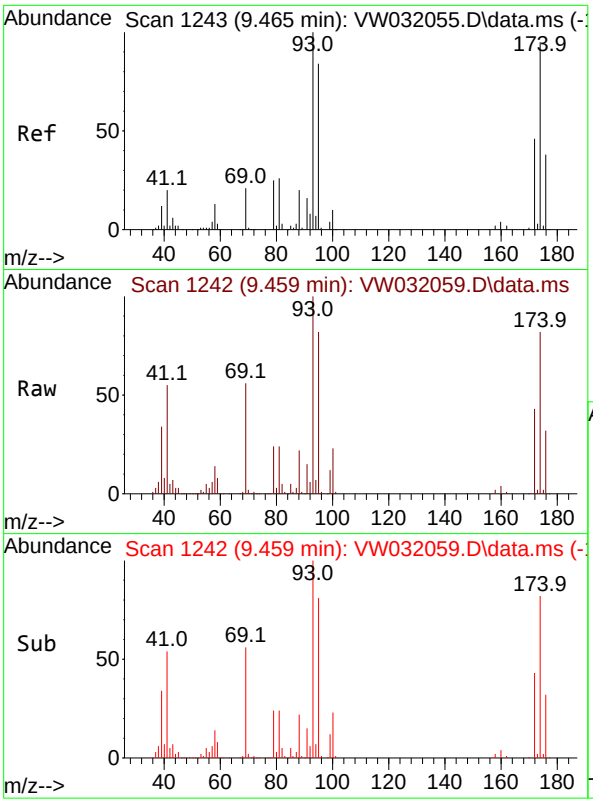


#48
Methyl methacrylate
Concen: 55.048 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



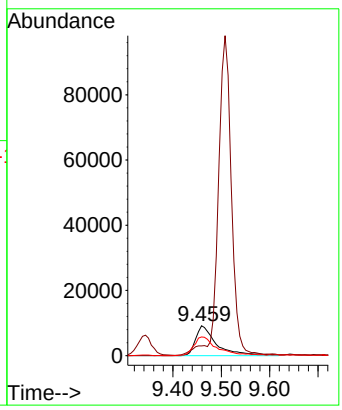


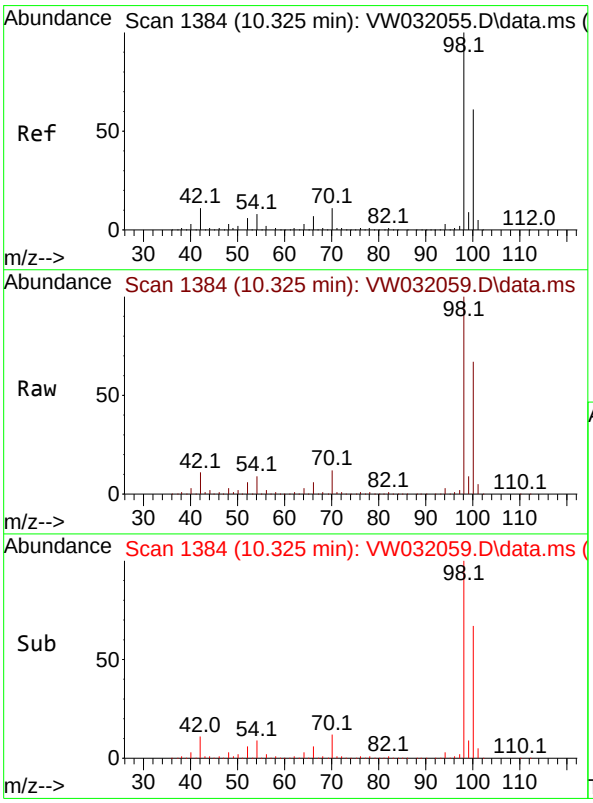
#49
1,4-Dioxane
Concen: 1155.151 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

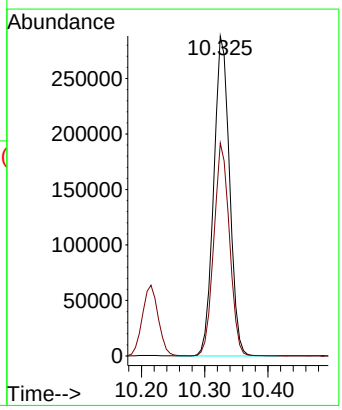


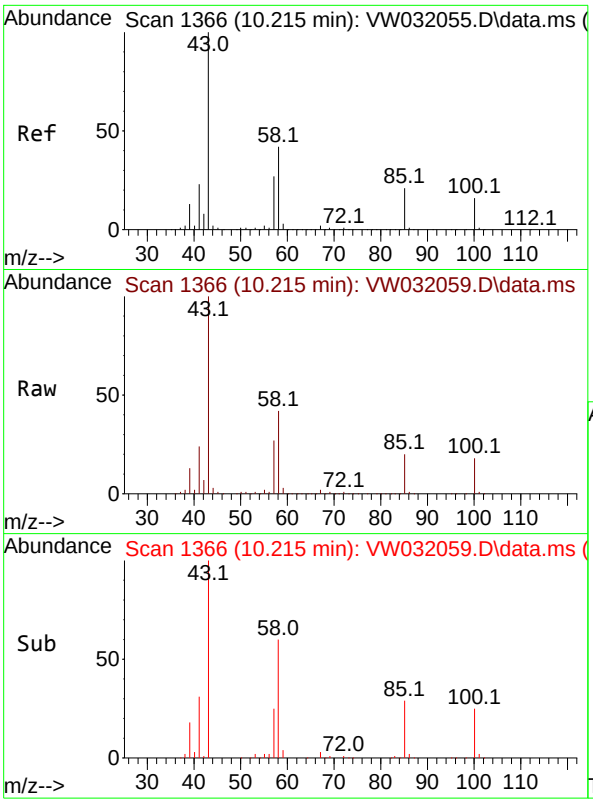


#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 98 Resp: 499377

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.1	76.7



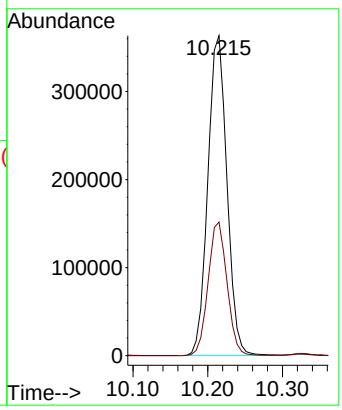


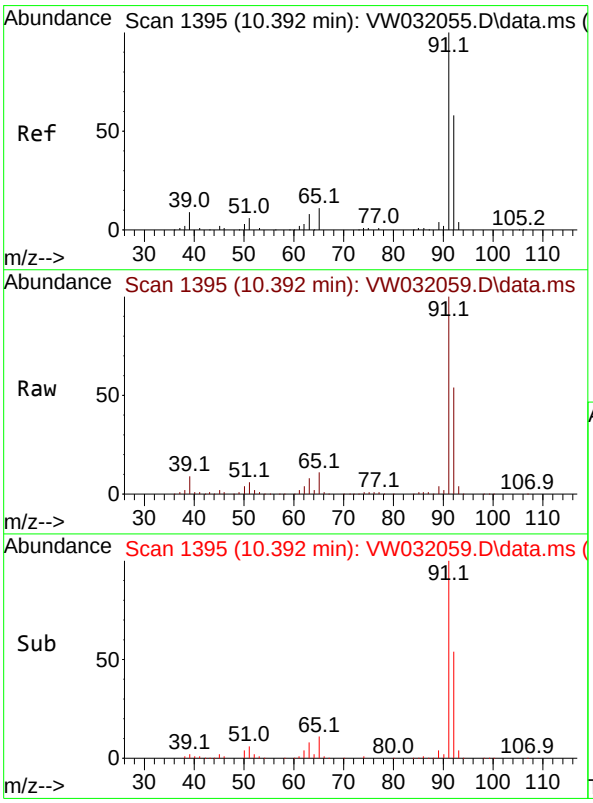
#51
4-Methyl-2-Pentanone
Concen: 275.585 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 645391

Ion	Ratio	Lower	Upper
43	100		
58	41.5	33.1	49.7

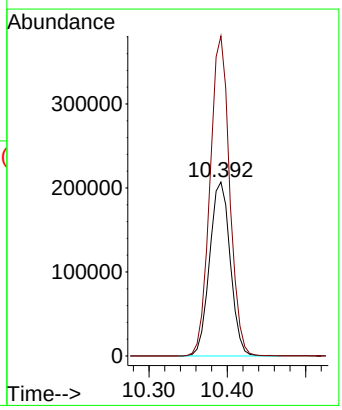


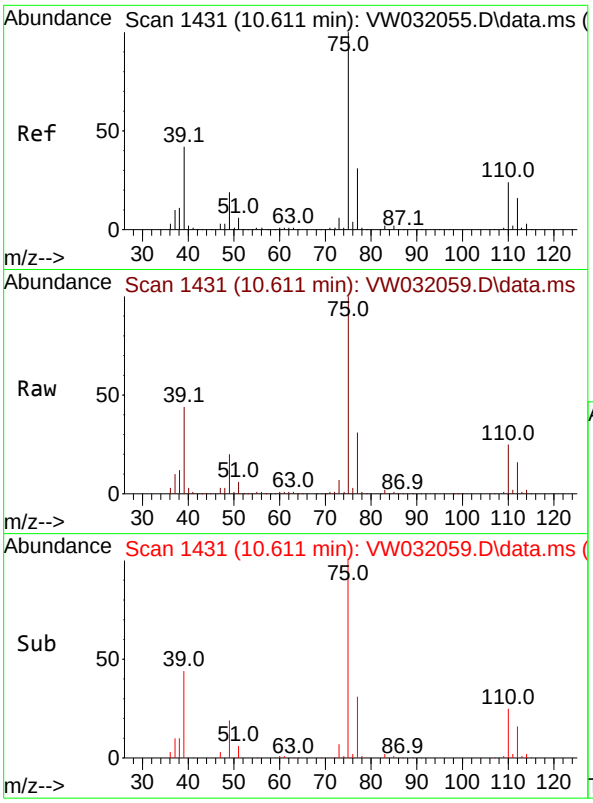


#52
Toluene
Concen: 50.410 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 92 Resp: 377919

Ion	Ratio	Lower	Upper
92	100		
91	175.7	136.3	204.5



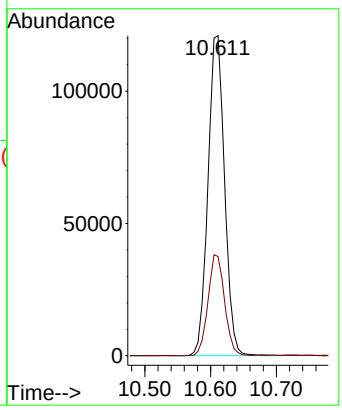


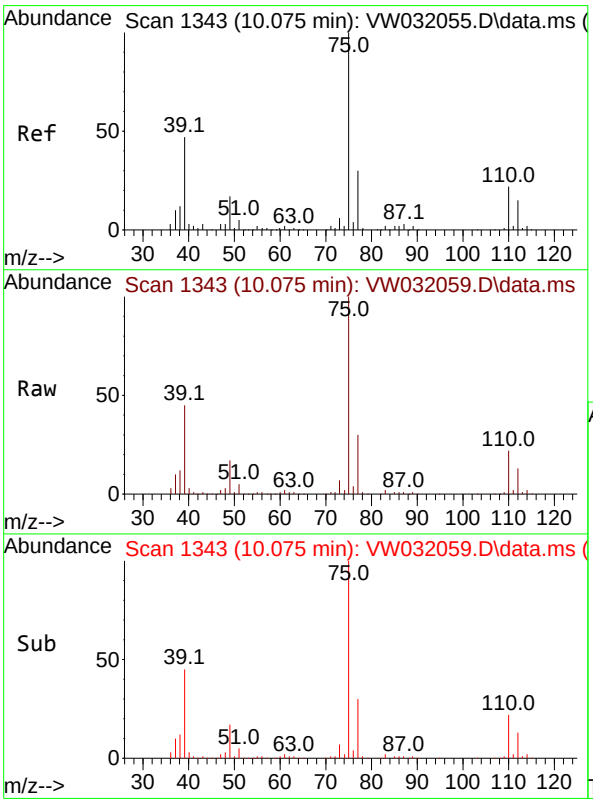
#53
t-1,3-Dichloropropene
Concen: 53.108 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 75 Resp: 212772

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6

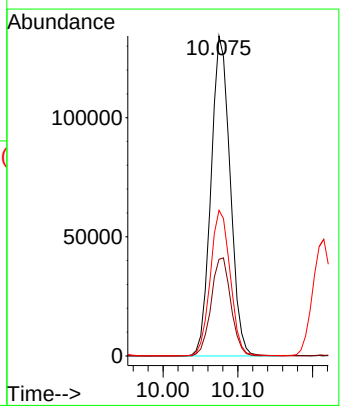


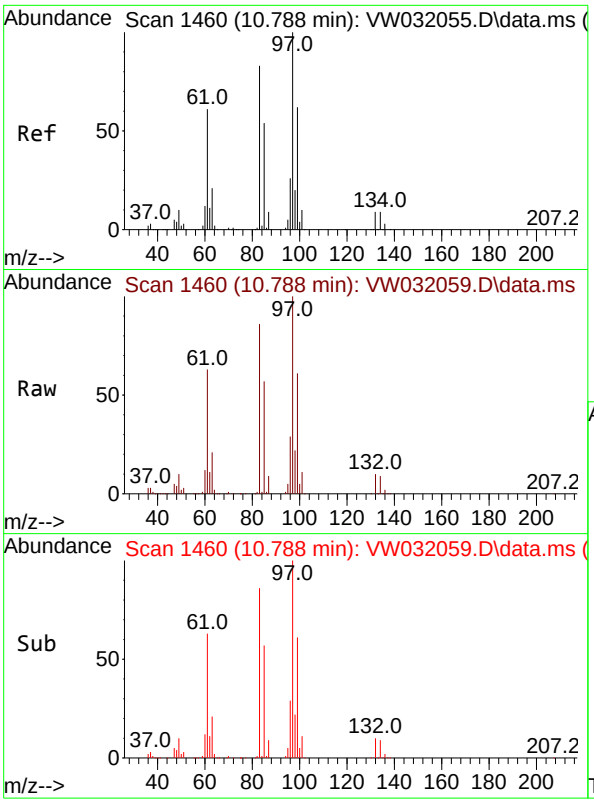


#54
cis-1,3-Dichloropropene
Concen: 52.577 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



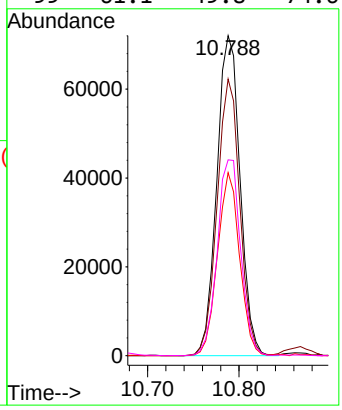


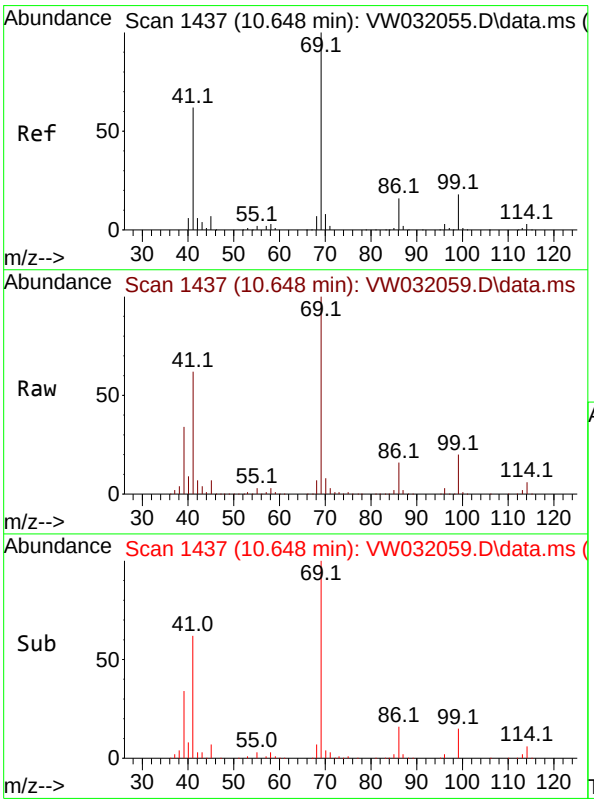
#55
1,1,2-Trichloroethane
Concen: 51.716 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

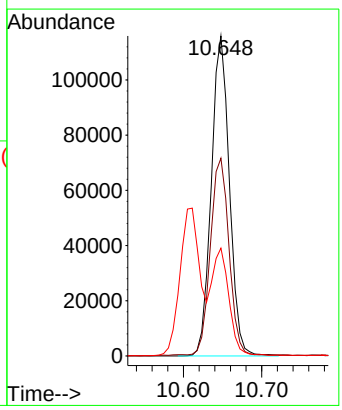


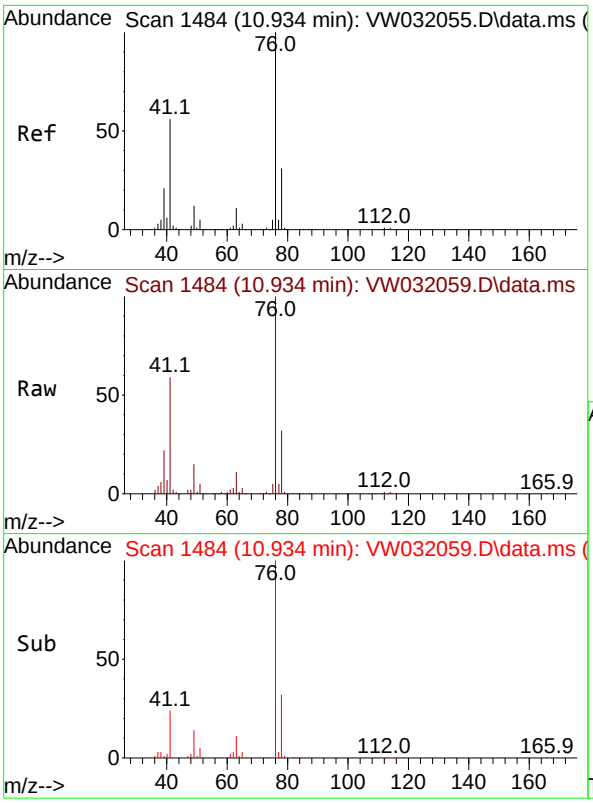


#56
Ethyl methacrylate
Concen: 56.374 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



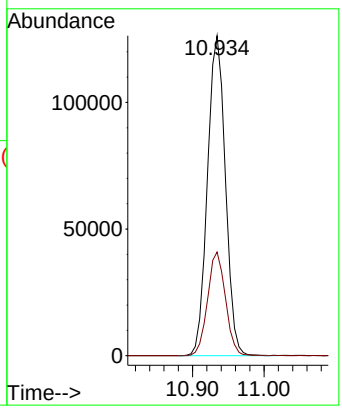


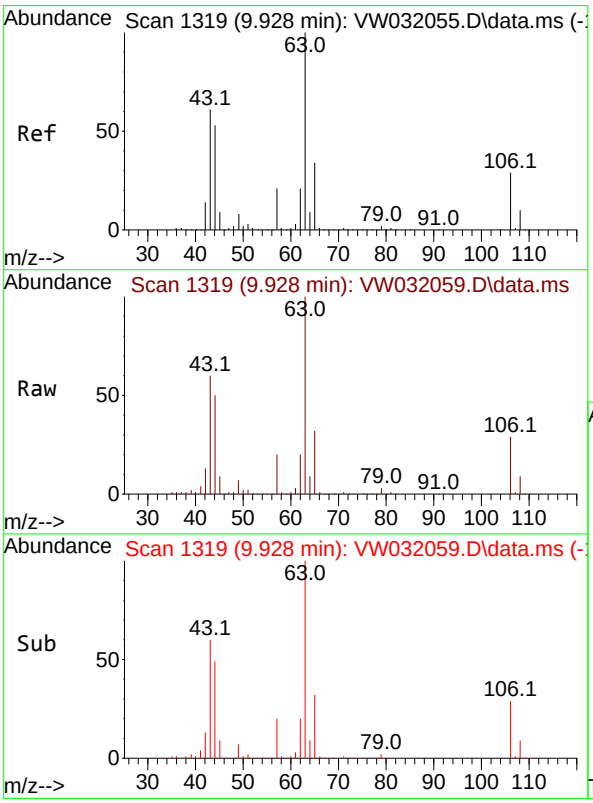
#57
1,3-Dichloropropane
Concen: 51.186 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 76 Resp: 220027

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.6

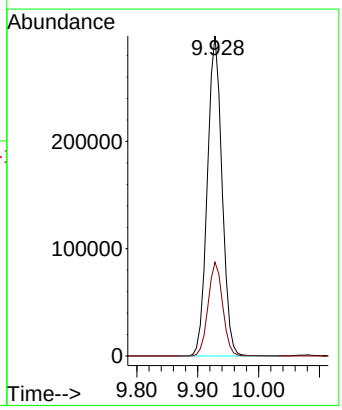


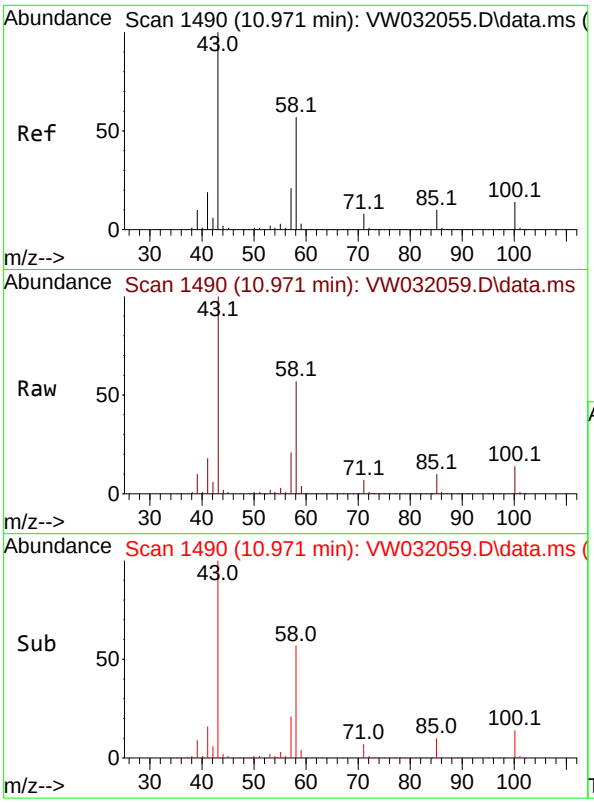


#58
2-Chloroethyl Vinyl ether
Concen: 272.893 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 498131

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3



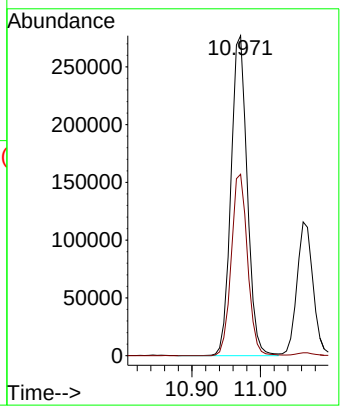


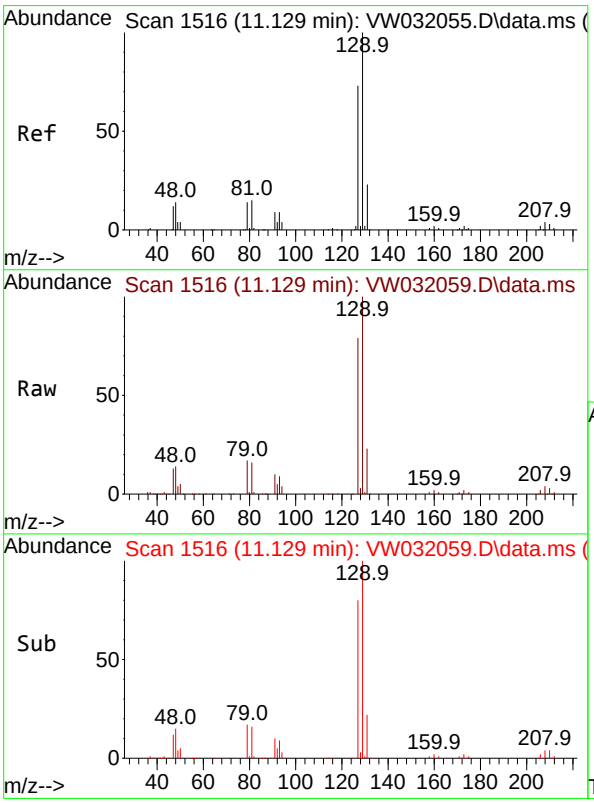
#59
2-Hexanone
Concen: 281.817 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 43 Resp: 457083

Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.3	85.0

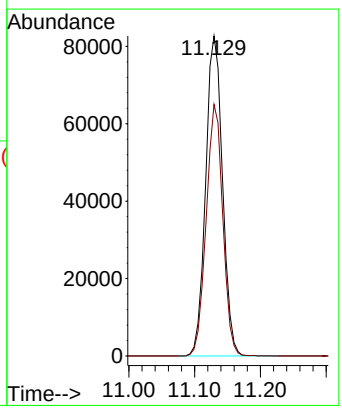


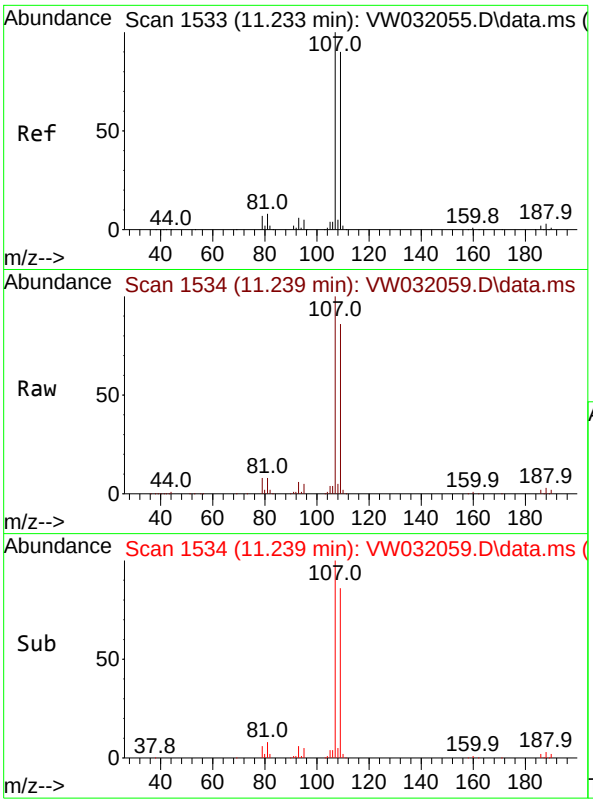


#60
Dibromochloromethane
Concen: 52.276 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:129 Resp: 147264

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.0	116.9



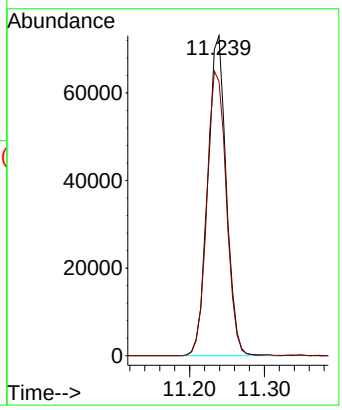


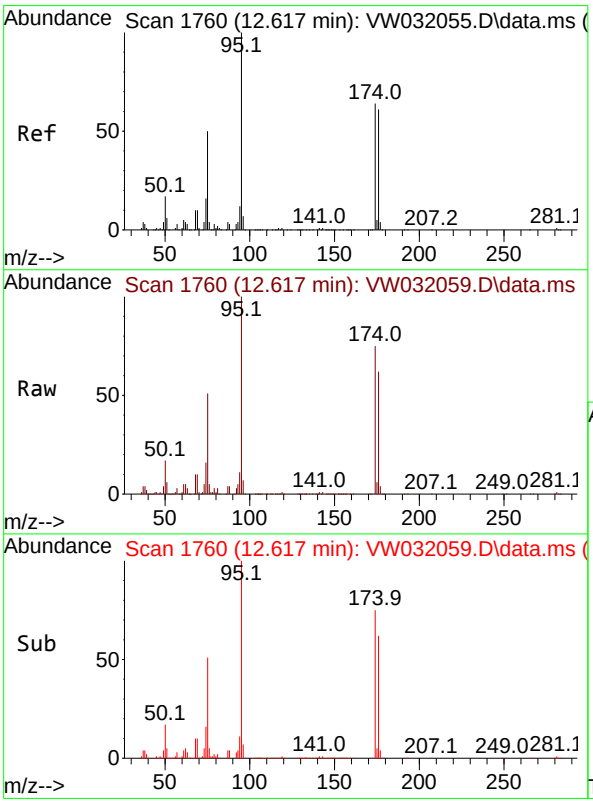
#61
1,2-Dibromoethane
Concen: 52.603 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:107 Resp: 126064

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.2	111.4

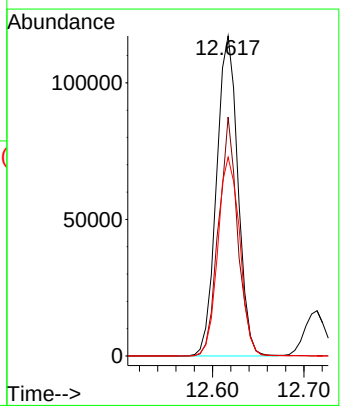


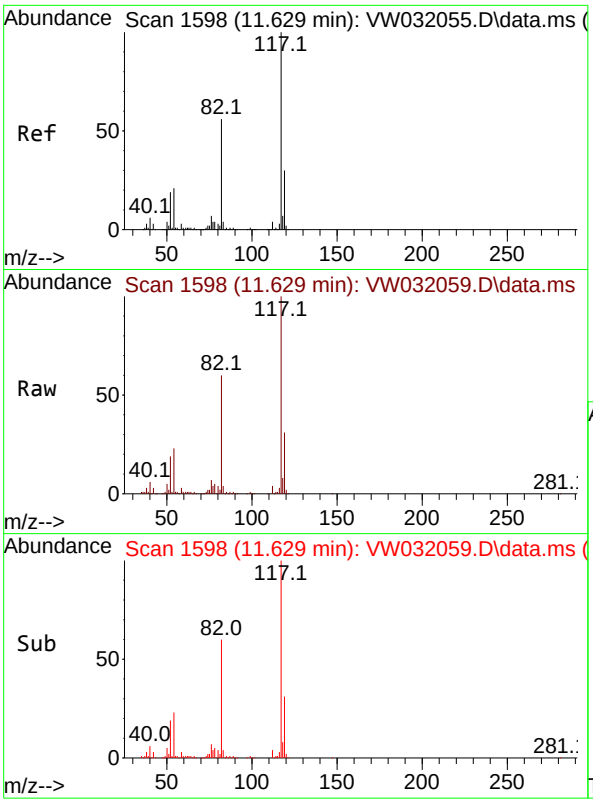


#62
4-Bromofluorobenzene
Concen: 51.460 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



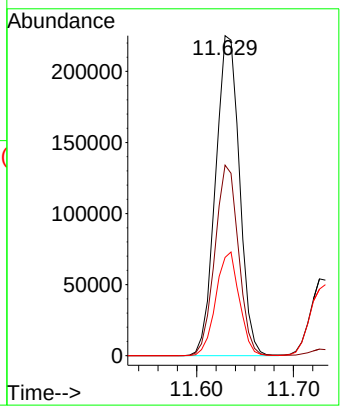


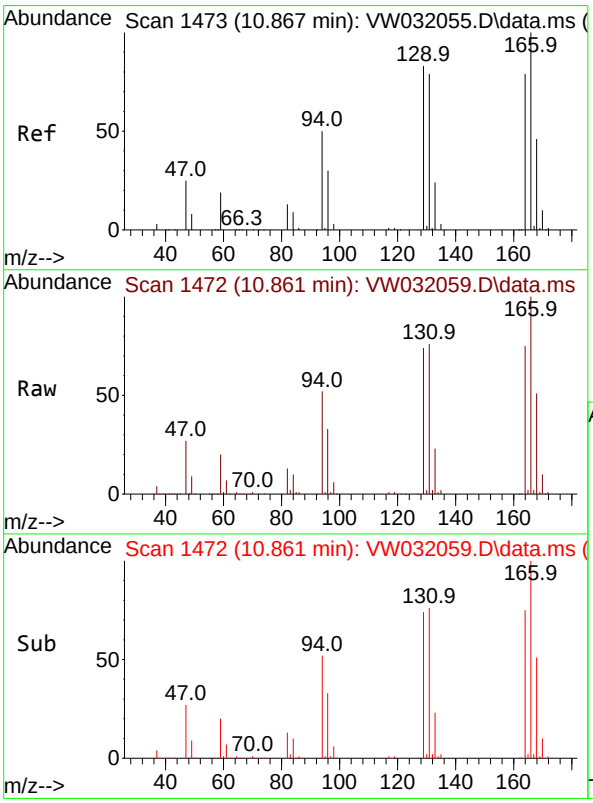
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

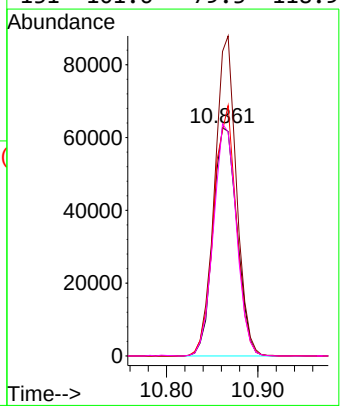


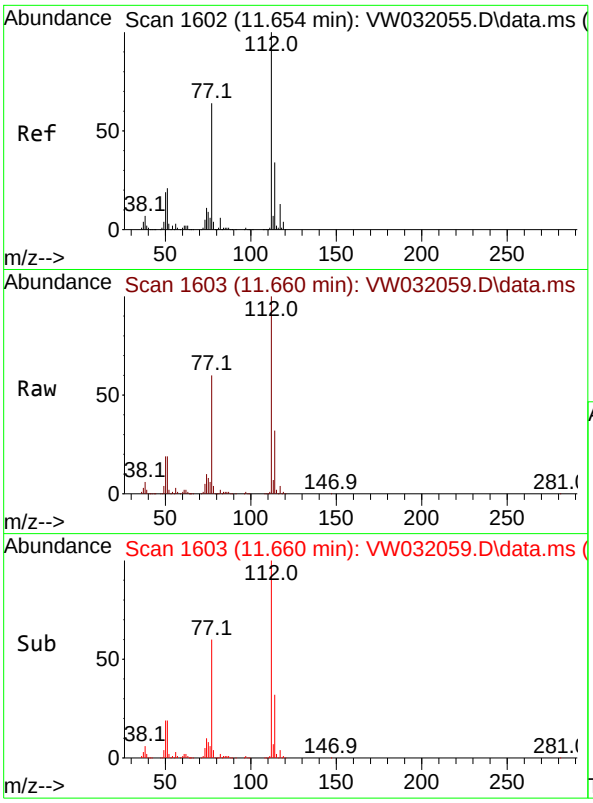


#64
Tetrachloroethene
Concen: 51.245 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



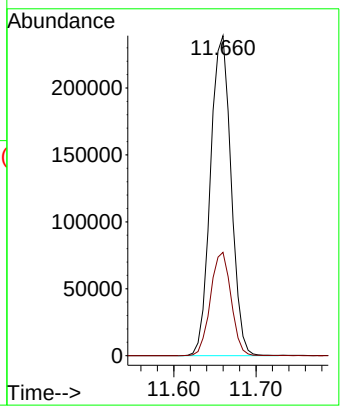


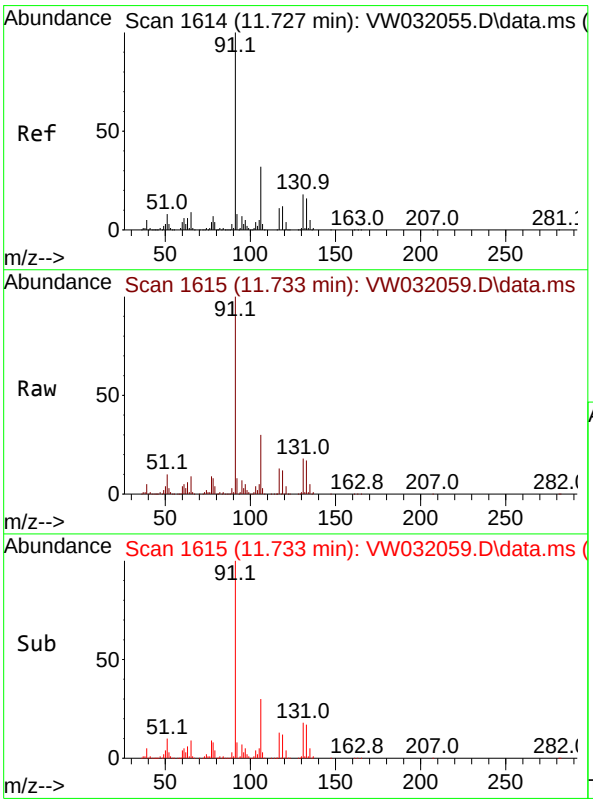
#65
Chlorobenzene
Concen: 49.461 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:112 Resp: 416485

Ion	Ratio	Lower	Upper
112	100		
114	32.3	26.9	40.3

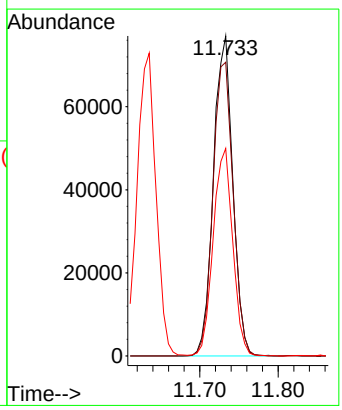


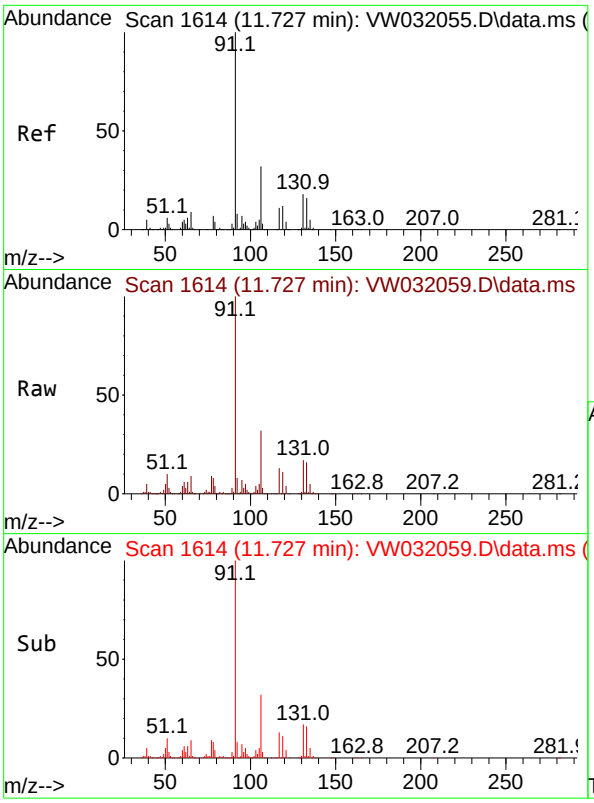


#66
1,1,1,2-Tetrachloroethane
Concen: 50.324 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



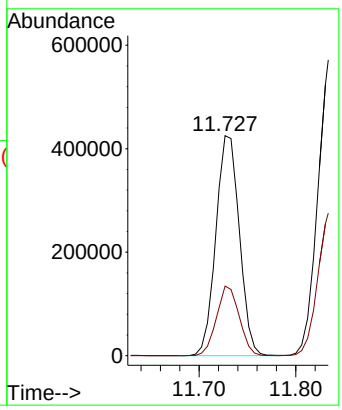


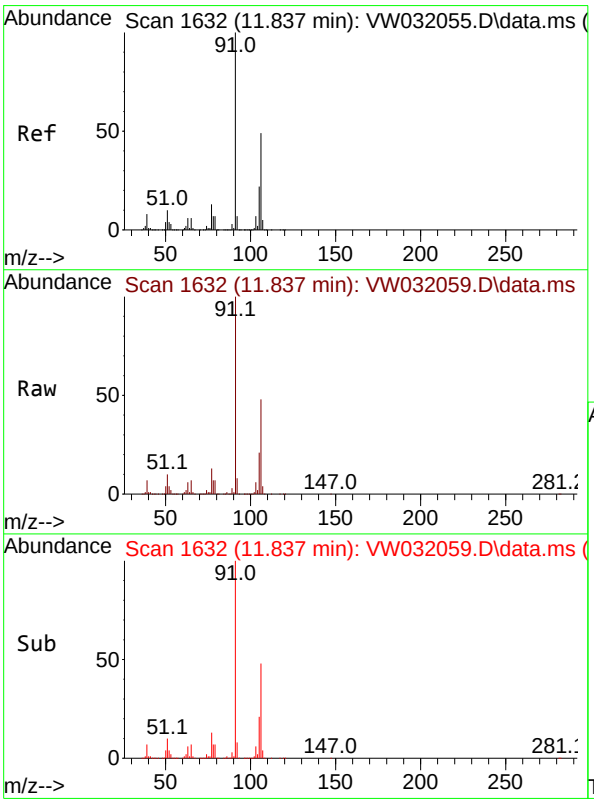
#67
Ethyl Benzene
Concen: 50.253 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 91 Resp: 716757

Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.4	38.0

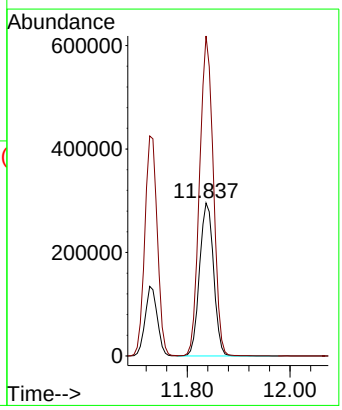


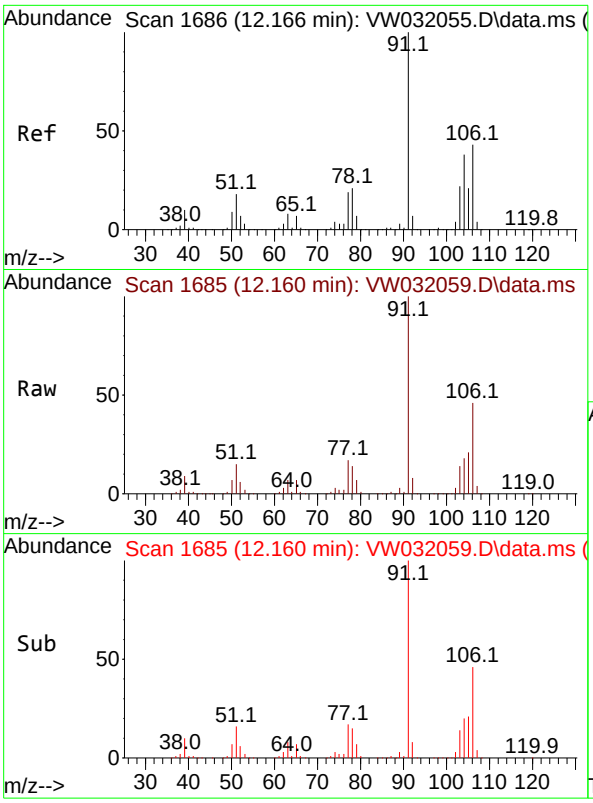


#68
m/p-Xylenes
Concen: 101.607 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 559216

Ion	Ratio	Lower	Upper
106	100		
91	204.9	162.2	243.2



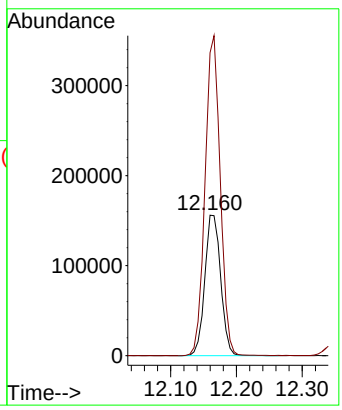


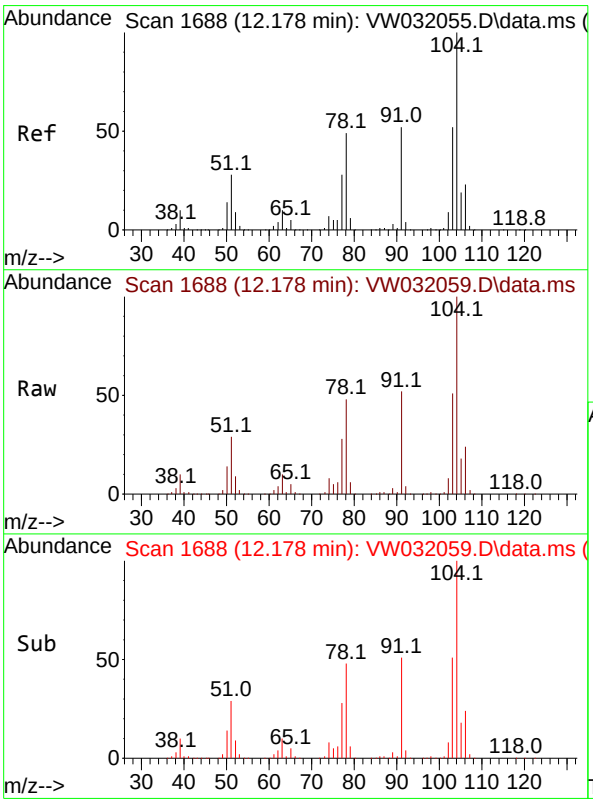
#69
o-Xylene
Concen: 51.416 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:106 Resp: 261548

Ion	Ratio	Lower	Upper
106	100		
91	218.6	110.8	332.3

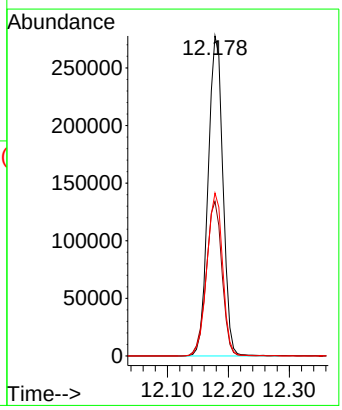


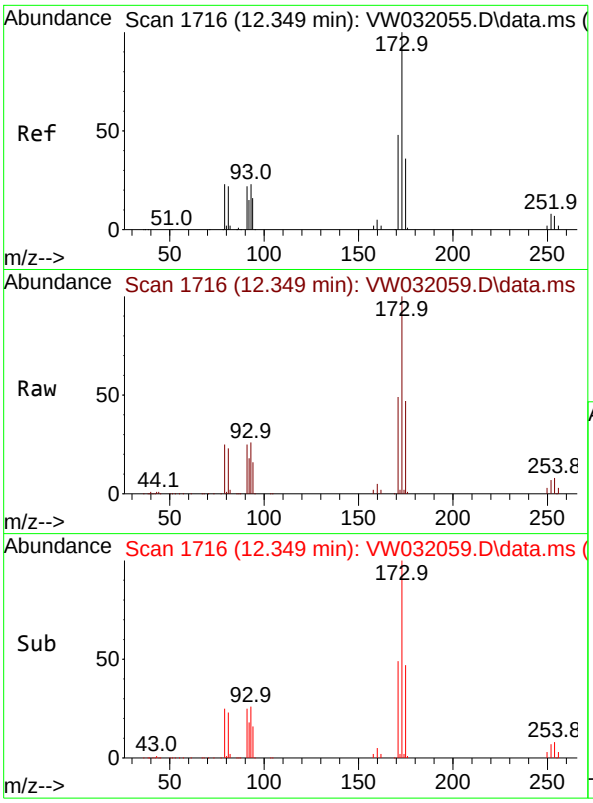


#70
Styrene
Concen: 51.833 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



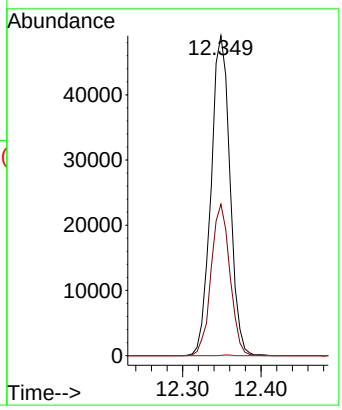


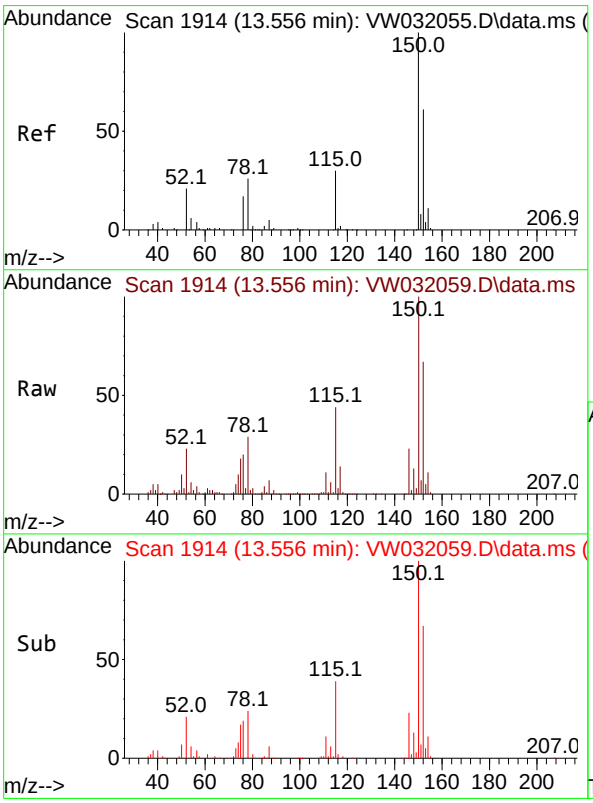
#71
Bromoform
Concen: 54.945 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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#

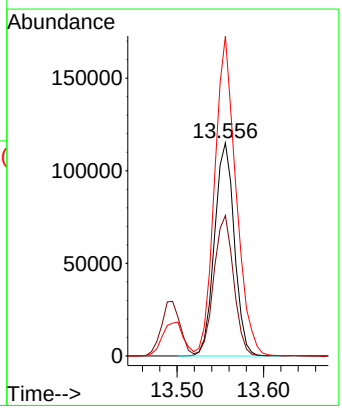


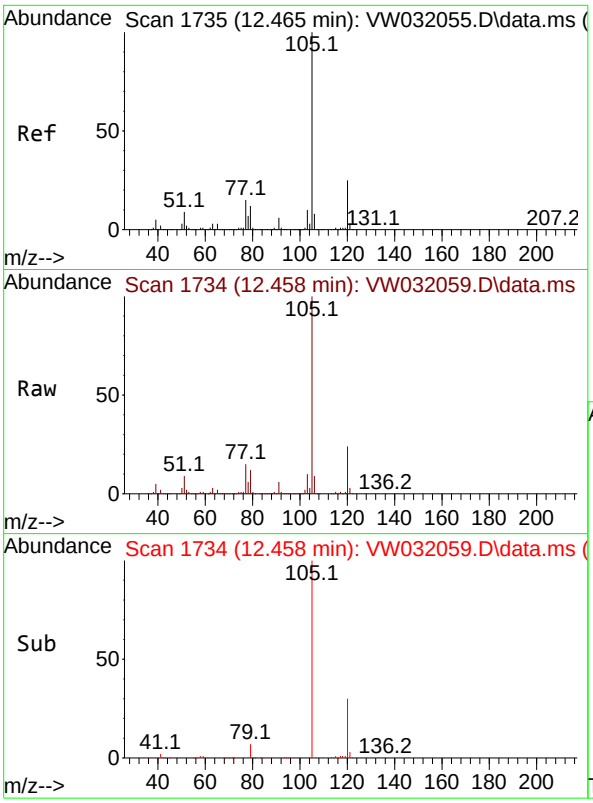


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



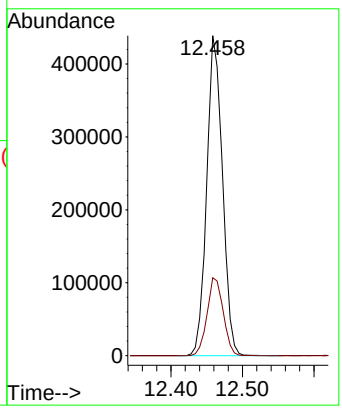


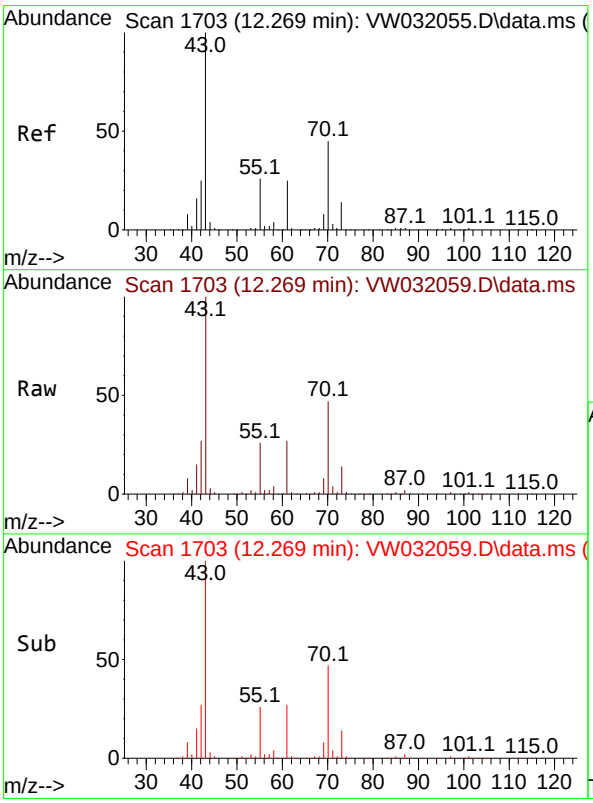
#73
Isopropylbenzene
Concen: 52.571 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:105 Resp: 670779

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4

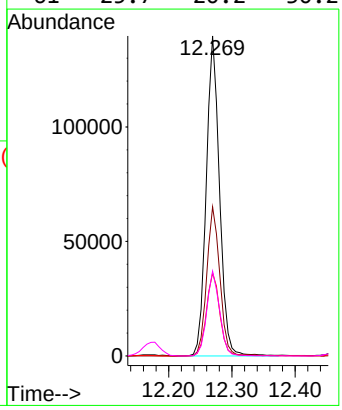


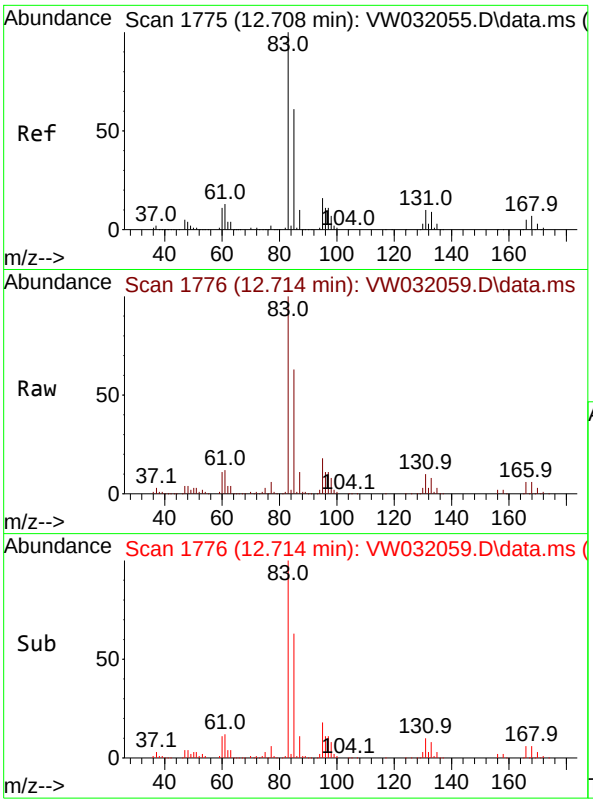


#74
N-amyl acetate
Concen: 55.682 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



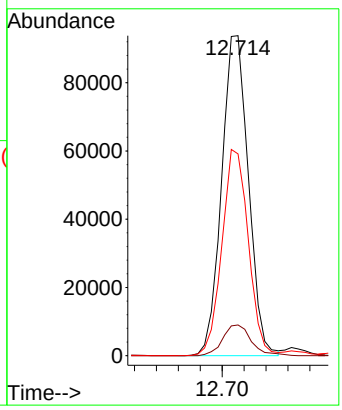


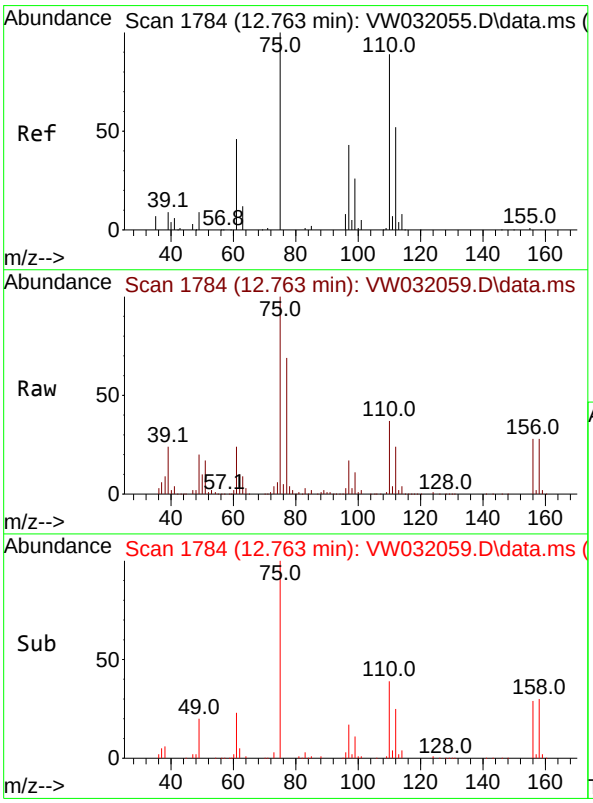
#75
1,1,2,2-Tetrachloroethane
Concen: 52.514 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

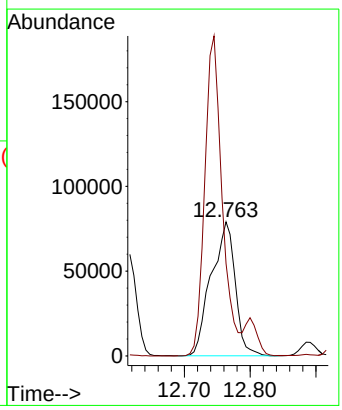


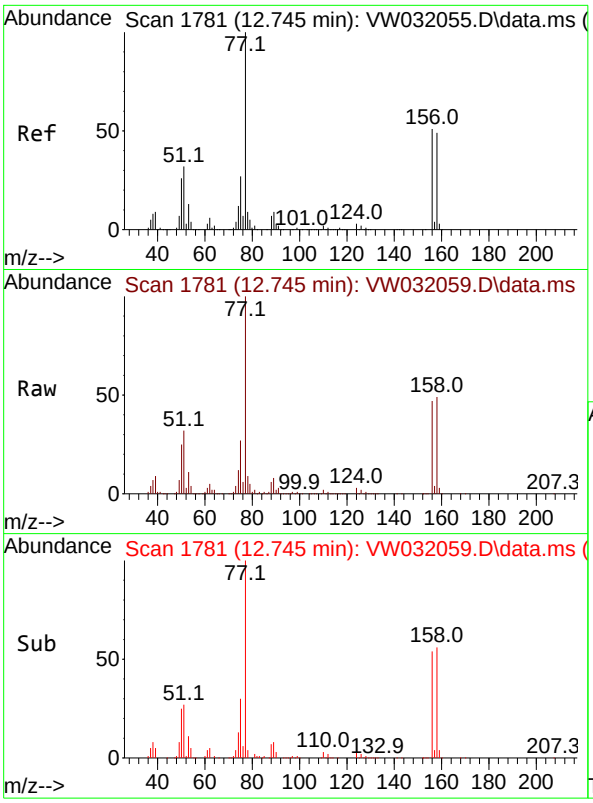


#76
1,2,3-Trichloropropane
Concen: 81.178 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 201159

Ion	Ratio	Lower	Upper
75	100		
77	174.4	123.5	370.5



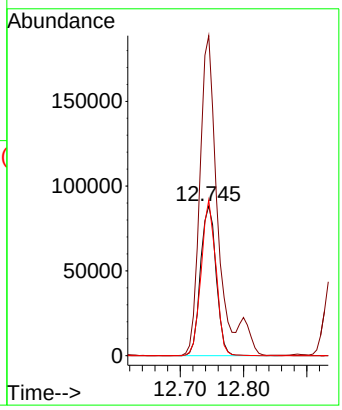


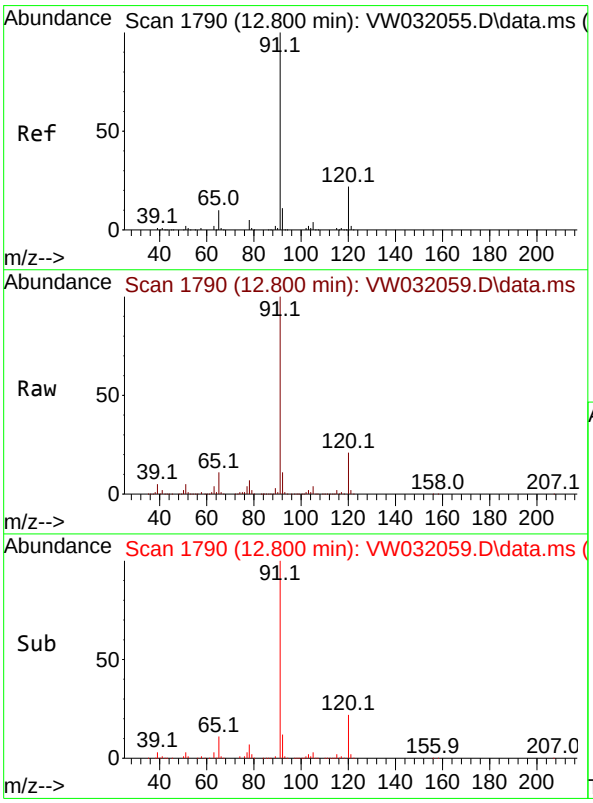
#77
Bromobenzene
Concen: 49.886 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

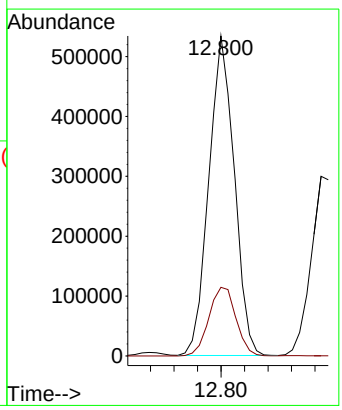


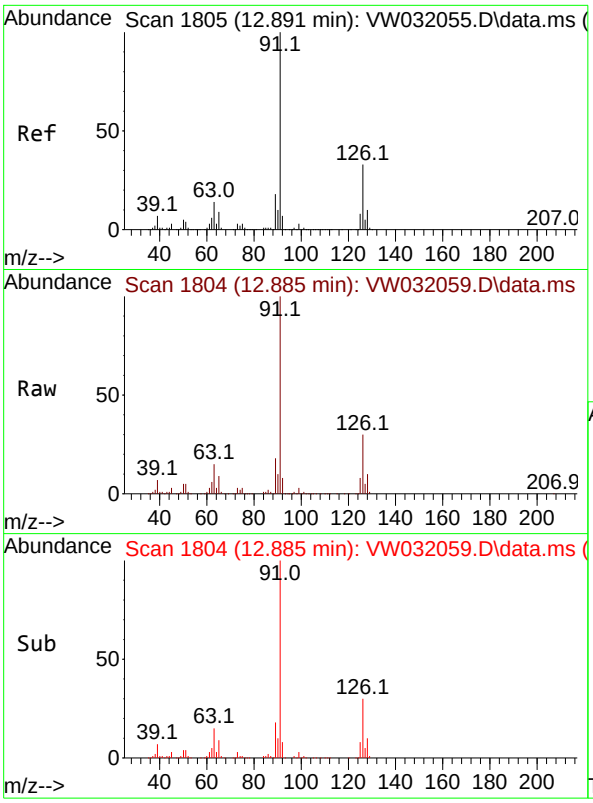


#78
n-propylbenzene
Concen: 51.148 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 803474

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.3



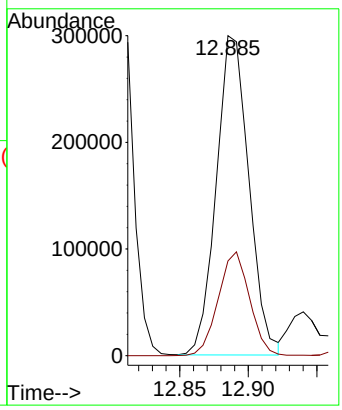


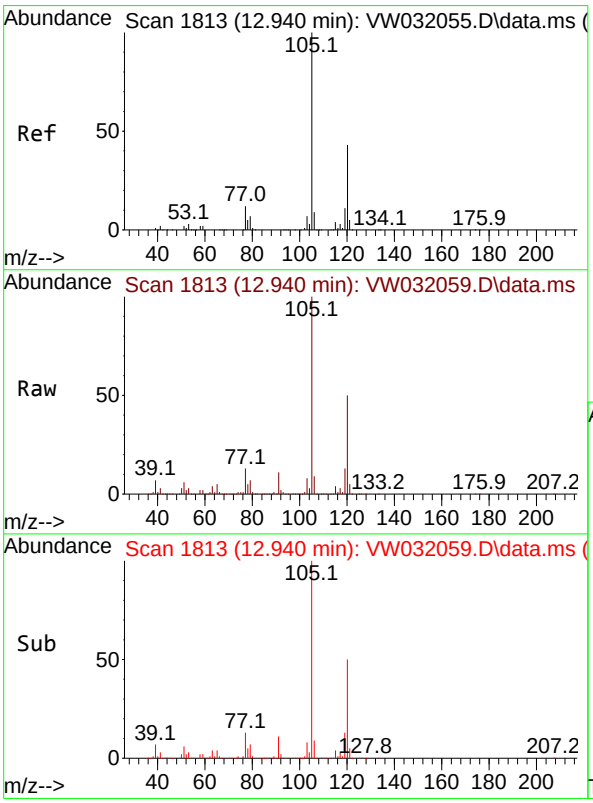
#79
2-Chlorotoluene
Concen: 51.114 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion: 91 Resp: 495562

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.9	47.7

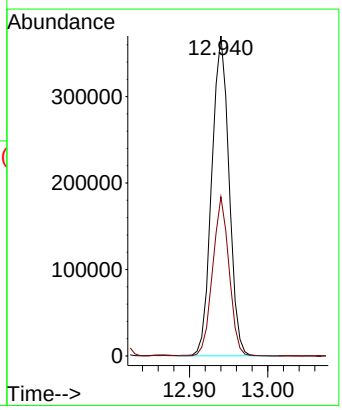


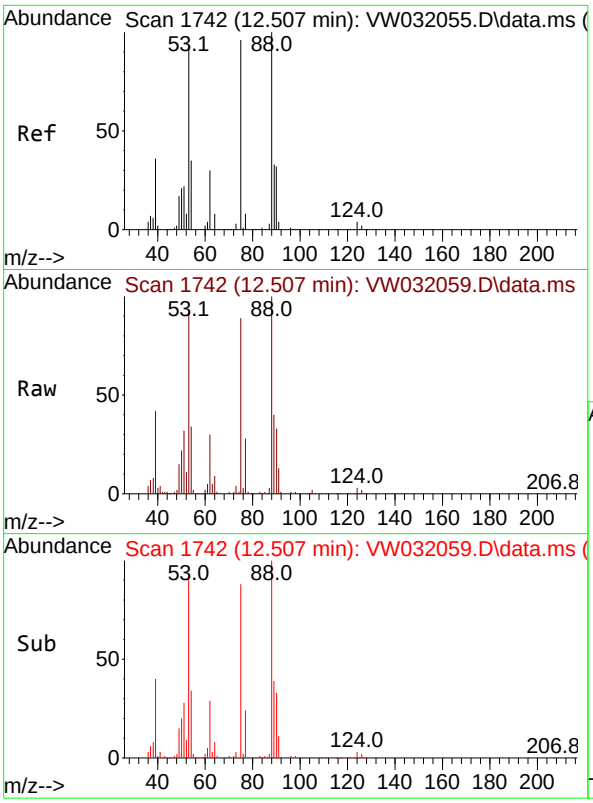


#80
1,3,5-Trimethylbenzene
Concen: 52.291 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 566437

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.4	70.0



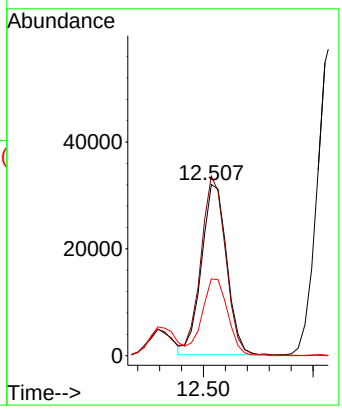


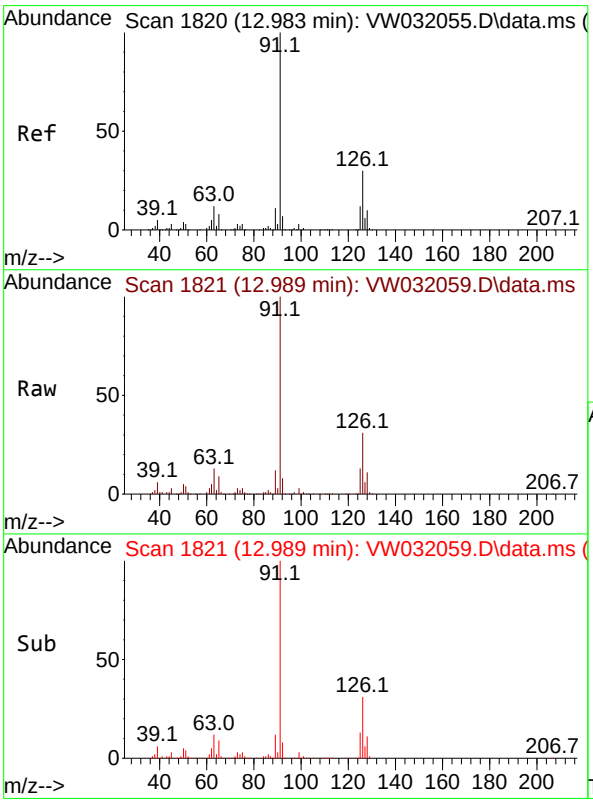
#81
trans-1,4-Dichloro-2-butene
Concen: 53.570 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

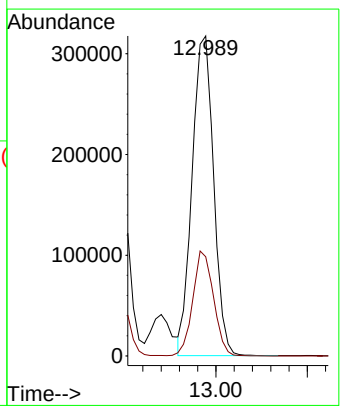


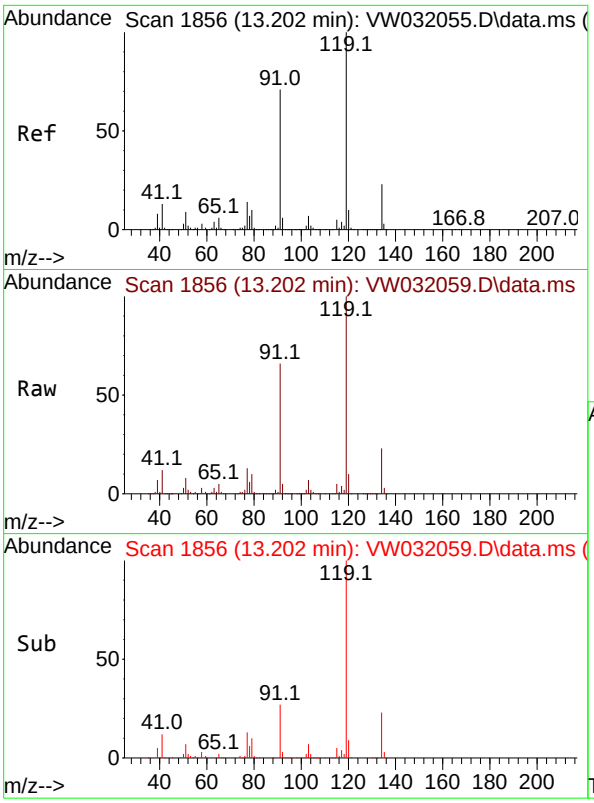


#82
4-Chlorotoluene
Concen: 50.312 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 518248

Ion	Ratio	Lower	Upper
91	100		
126	31.7	15.5	46.5



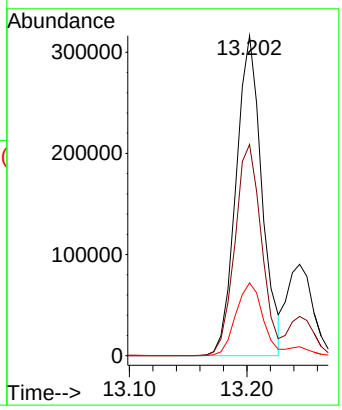


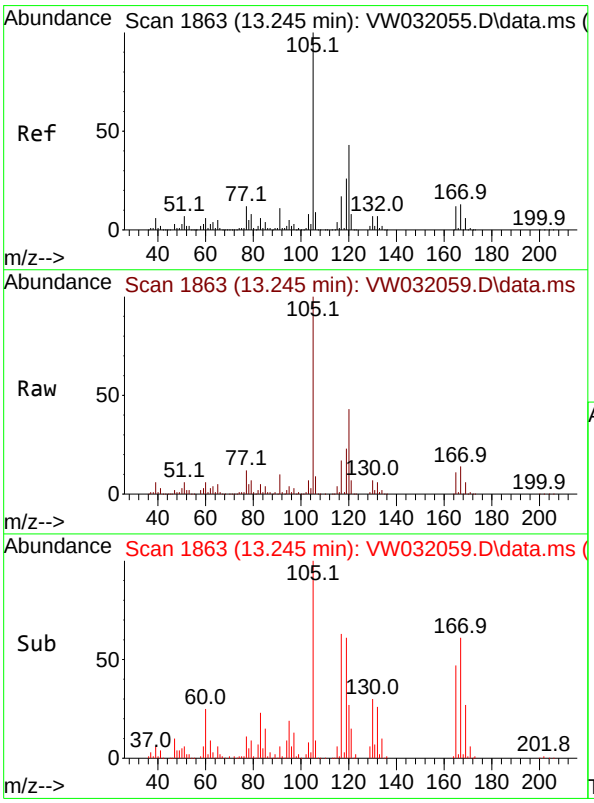
#83
tert-Butylbenzene
Concen: 53.777 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

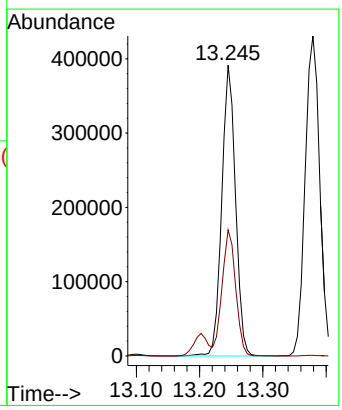


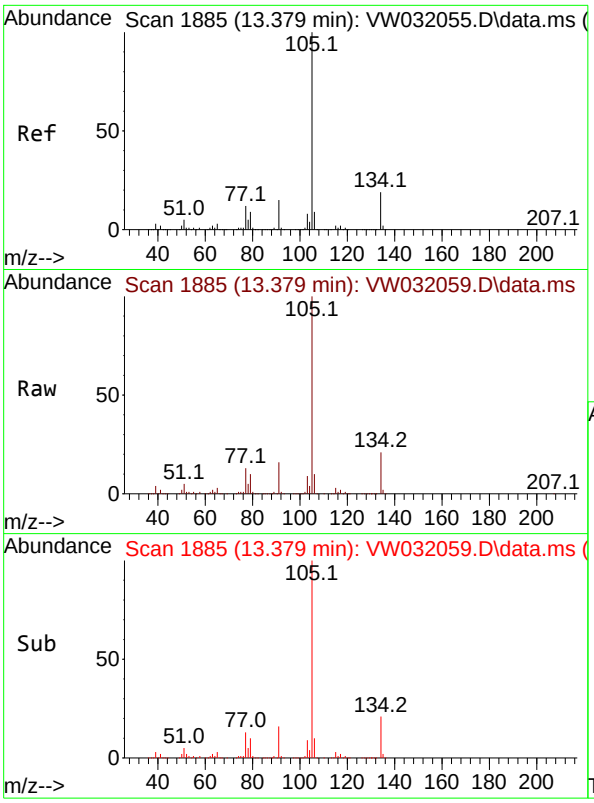


#84
1,2,4-Trimethylbenzene
Concen: 53.308 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 587831

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.6	64.8



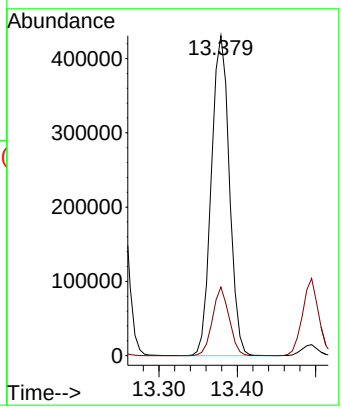


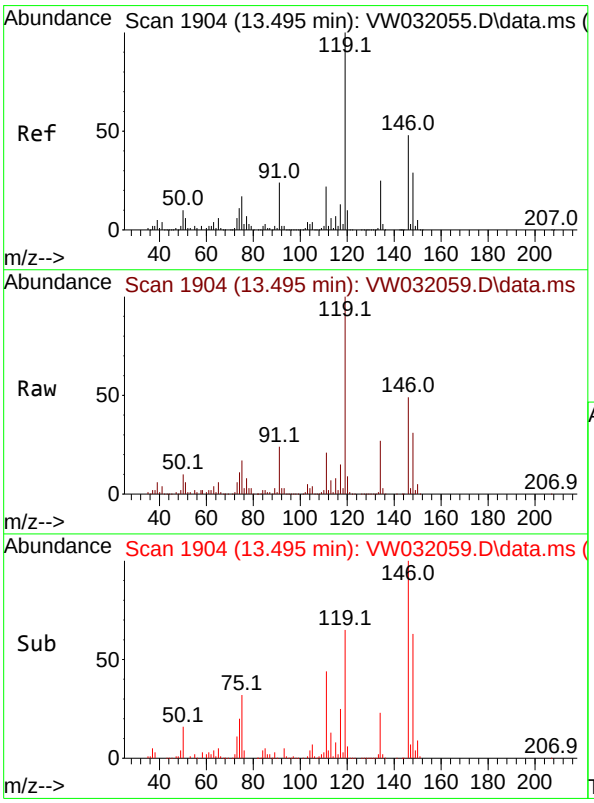
#85
sec-Butylbenzene
Concen: 50.571 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Instrument :
MSVOA_W
ClientSampleId :
ICVVW081125

Tgt Ion:105 Resp: 687367

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.9	29.7

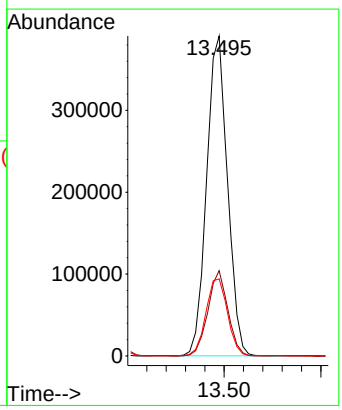


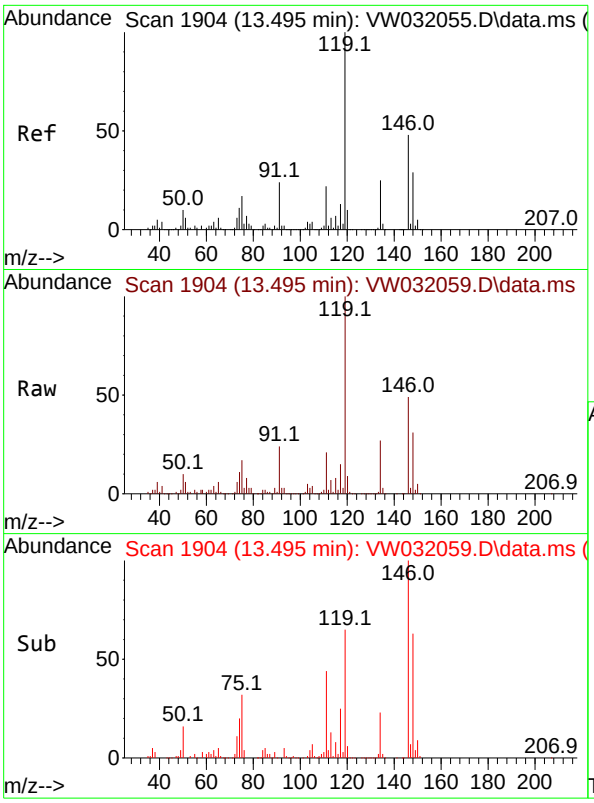


#86
p-Isopropyltoluene
Concen: 51.580 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



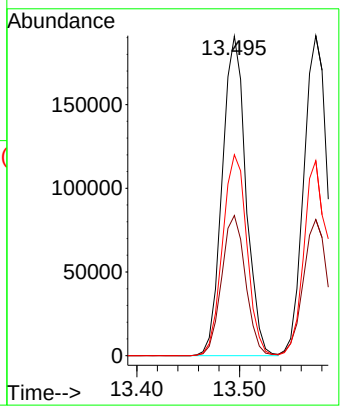


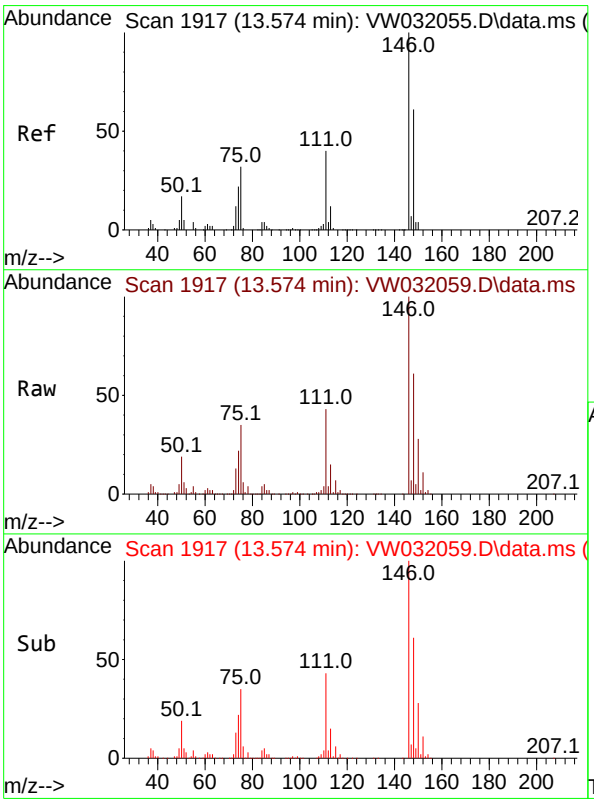
#87
1,3-Dichlorobenzene
Concen: 50.304 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

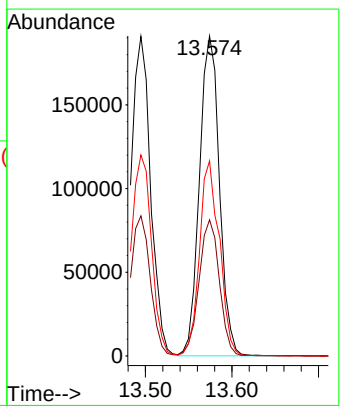


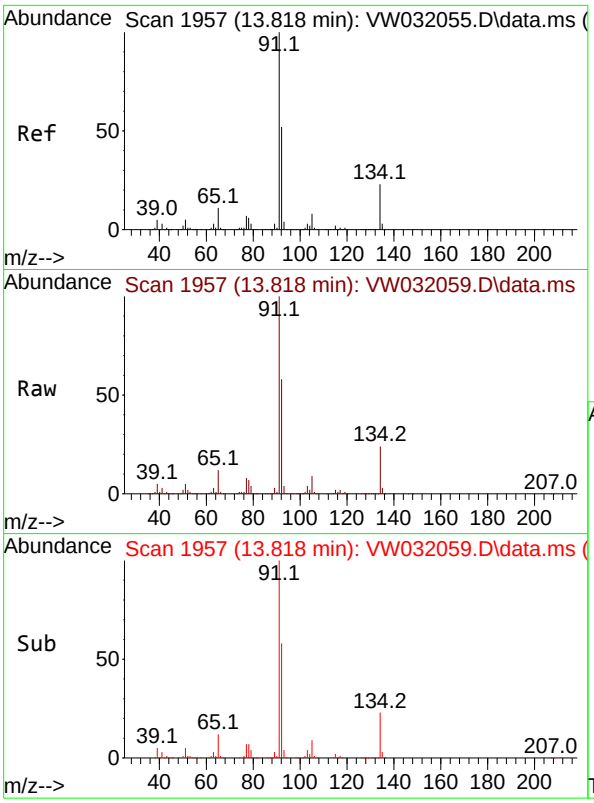


#88
1,4-Dichlorobenzene
Concen: 49.942 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



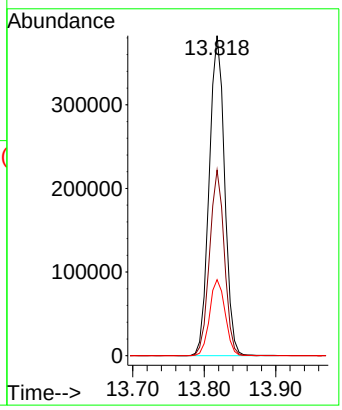


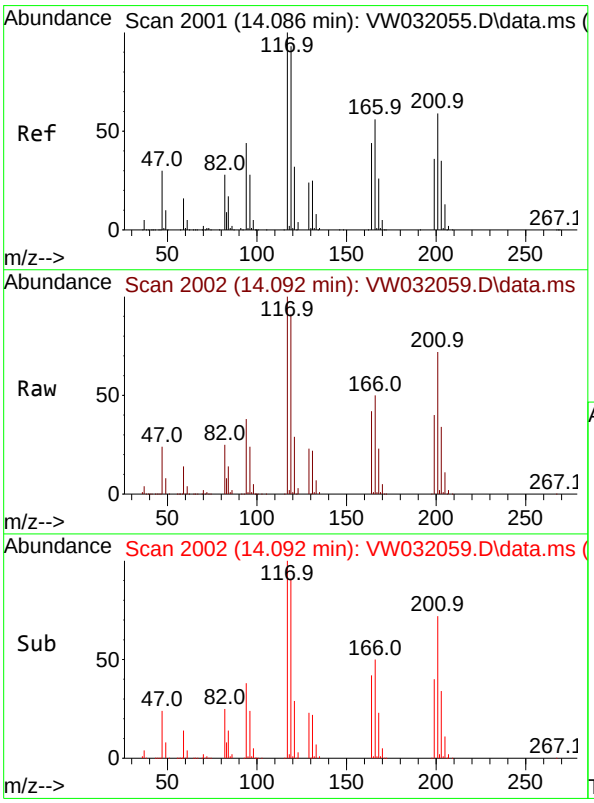
#89
n-Butylbenzene
Concen: 51.958 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

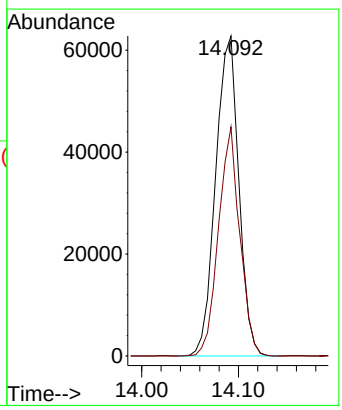


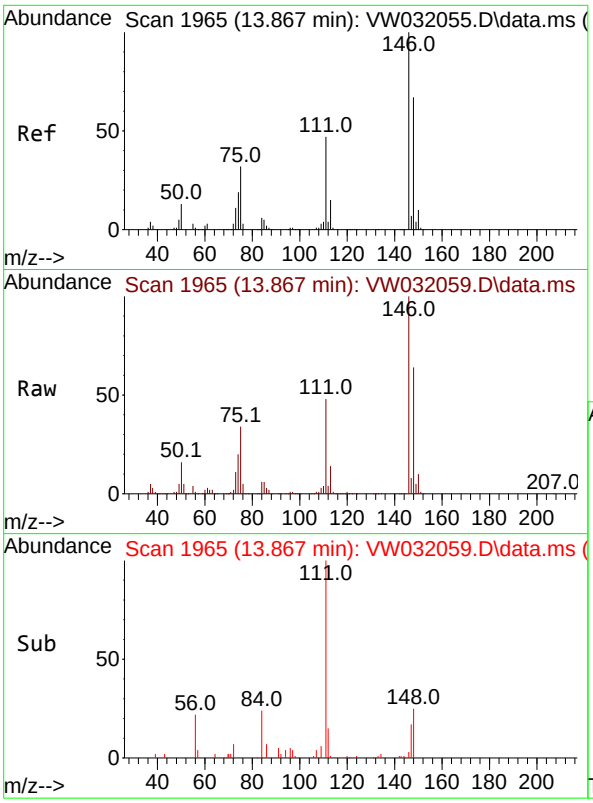


#90
Hexachloroethane
Concen: 50.329 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 104295

Ion	Ratio	Lower	Upper
117	100		
201	65.9	30.9	92.5



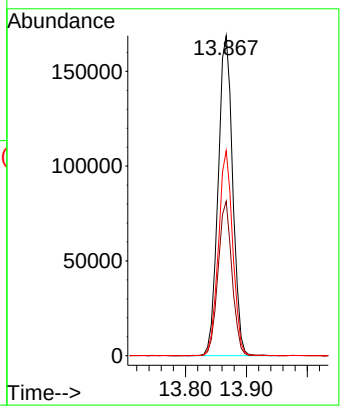


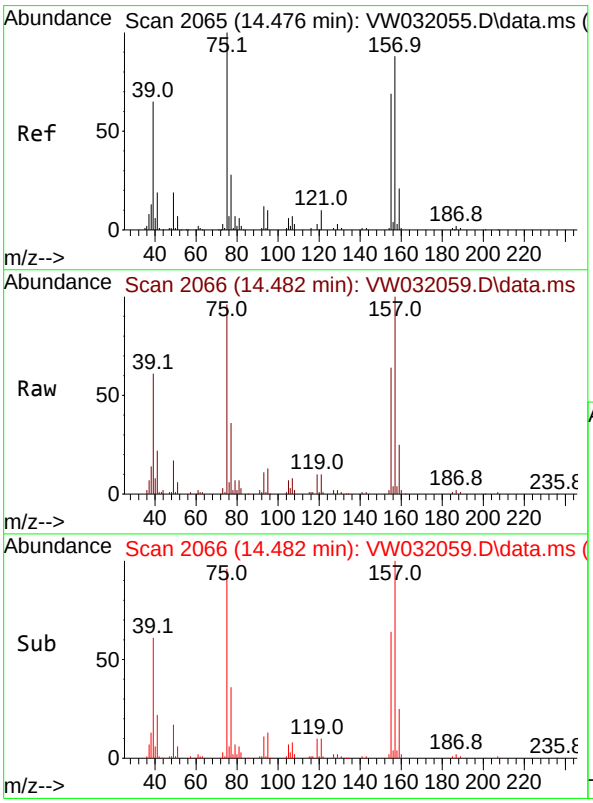
#91
1,2-Dichlorobenzene
Concen: 50.926 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

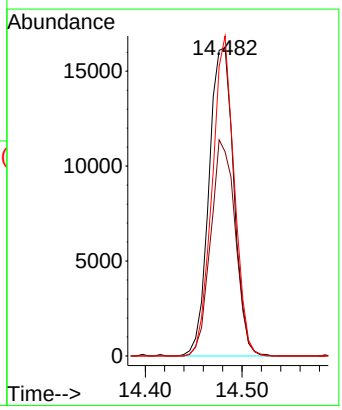


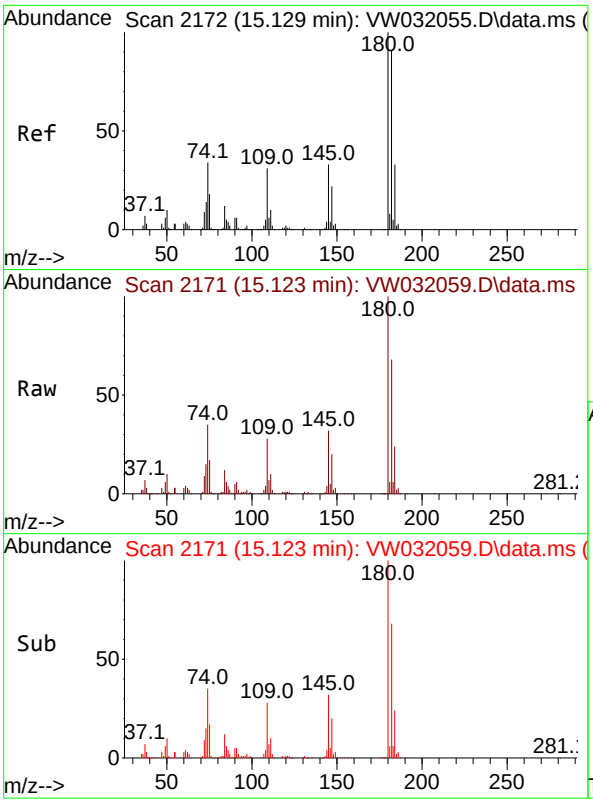


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.872 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



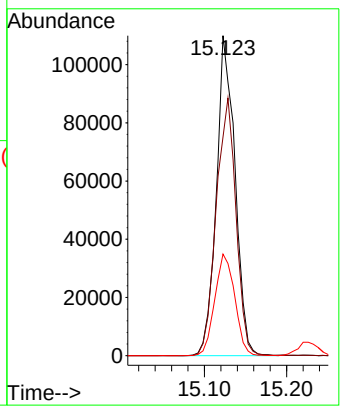


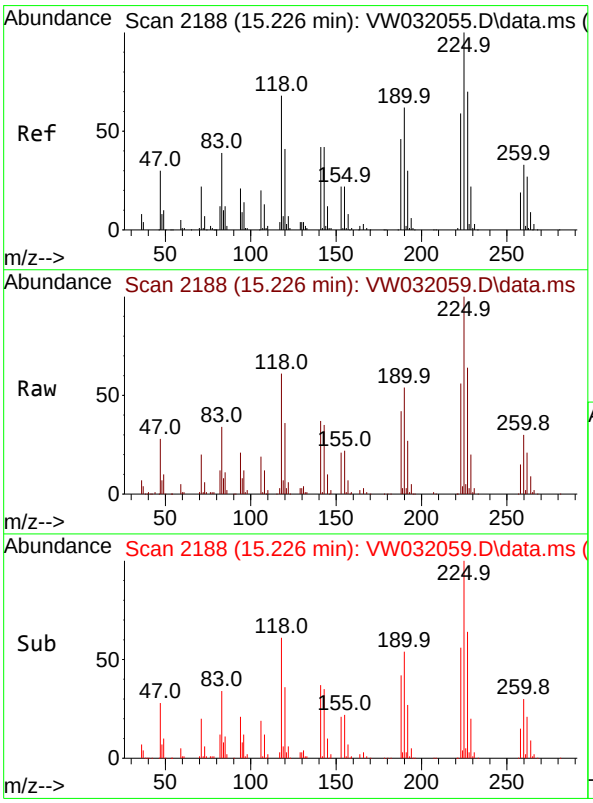
#93
1,2,4-Trichlorobenzene
Concen: 52.764 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

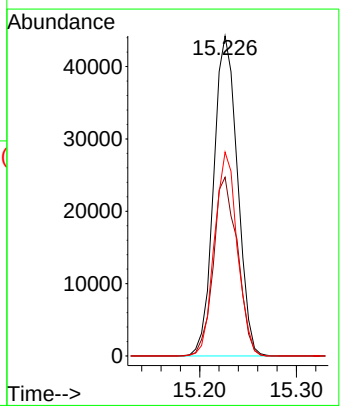


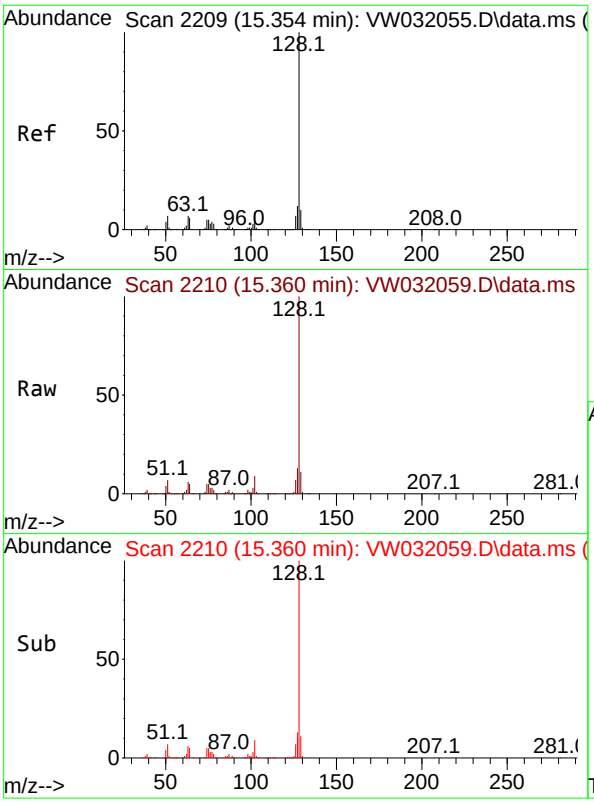


#94
Hexachlorobutadiene
Concen: 51.262 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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



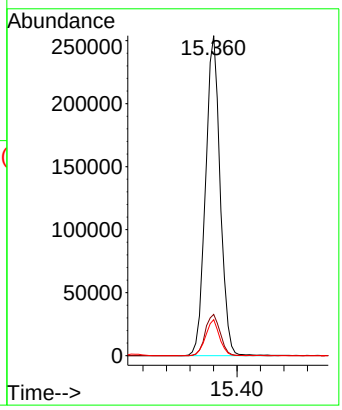


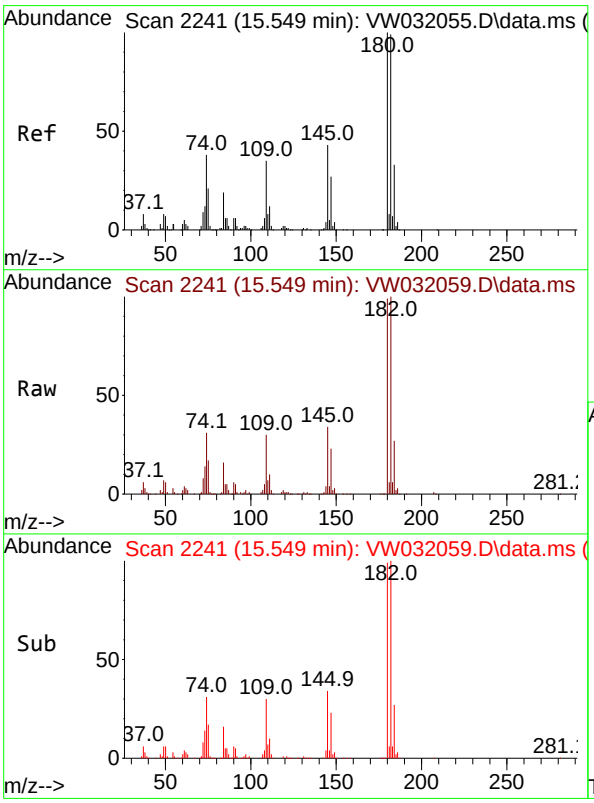
#95
Naphthalene
Concen: 54.415 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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

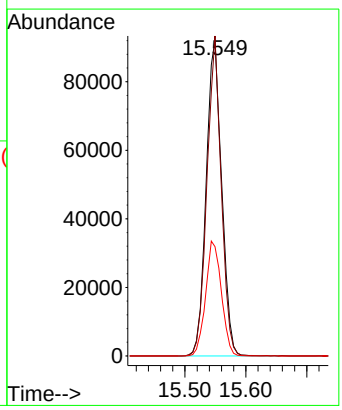




#96
1,2,3-Trichlorobenzene
Concen: 54.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

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\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Quant Time: Aug 12 04:23:11 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	7.959	168	224181	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	427747	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	394820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	191594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	164557	50.753	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.500%			
35) Dibromofluoromethane	7.898	113	135084	48.883	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 97.760%			
50) Toluene-d8	10.325	98	508647	49.765	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.520%			
62) 4-Bromofluorobenzene	12.617	95	197267	52.373	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	34210	21.336	ug/l	99
3) Chloromethane	2.253	50	44827	20.755	ug/l	100
4) Vinyl Chloride	2.405	62	55119	21.098	ug/l	96
5) Bromomethane	2.814	94	42172	21.516	ug/l	100
6) Chloroethane	2.972	64	36005	20.827	ug/l	93
7) Trichlorofluoromethane	3.302	101	36824	17.595	ug/l	97
8) Diethyl Ether	3.716	74	36836	21.483	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.094	101	49645	20.107	ug/l	99
10) Methyl Iodide	4.301	142	76912	21.970	ug/l	99
11) Tert butyl alcohol	5.222	59	21680	103.263	ug/l	99
12) 1,1-Dichloroethene	4.076	96	55559	20.435	ug/l	98
13) Acrolein	3.923	56	37149	111.050	ug/l	100
14) Allyl chloride	4.704	41	84834	21.439	ug/l	100
15) Acrylonitrile	5.399	53	86103	105.428	ug/l	99
16) Acetone	4.155	43	86915	115.783	ug/l	99
17) Carbon Disulfide	4.417	76	147760	20.248	ug/l	97
18) Methyl Acetate	4.704	43	51464	21.665	ug/l	99
19) Methyl tert-butyl Ether	5.454	73	104973	21.914	ug/l	99
20) Methylene Chloride	4.948	84	74303	21.408	ug/l	96
21) trans-1,2-Dichloroethene	5.454	96	59717	20.698	ug/l	96
22) Diisopropyl ether	6.338	45	180946	21.692	ug/l	98
23) Vinyl Acetate	6.283	43	585943	106.987	ug/l	99
24) 1,1-Dichloroethane	6.240	63	111769	20.971	ug/l	97
25) 2-Butanone	7.191	43	119059	111.594	ug/l	99
26) 2,2-Dichloropropane	7.185	77	55490	20.753	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	71568	21.221	ug/l	97
28) Bromochloromethane	7.526	49	49722	20.501	ug/l	100
29) Tetrahydrofuran	7.551	42	75818	107.756	ug/l	100
30) Chloroform	7.691	83	119431	21.137	ug/l	99
31) Cyclohexane	7.965	56	92372	19.992	ug/l	96
32) 1,1,1-Trichloroethane	7.880	97	84982	20.707	ug/l	97
36) 1,1-Dichloropropene	8.093	75	78541	20.161	ug/l	99
37) Ethyl Acetate	7.270	43	48130	20.977	ug/l	99
38) Carbon Tetrachloride	8.081	117	75079	19.971	ug/l	92
39) Methylcyclohexane	9.343	83	94968	20.000	ug/l	93
40) Benzene	8.337	78	254209	20.993	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Quant Time: Aug 12 04:23:11 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)
41) Methacrylonitrile	7.502	41	28577	21.963	ug/l		98
42) 1,2-Dichloroethane	8.410	62	81049	20.917	ug/l		98
43) Isopropyl Acetate	8.435	43	86573	20.509	ug/l		99
44) Trichloroethene	9.099	130	58362	20.238	ug/l		99
45) 1,2-Dichloropropane	9.374	63	61430	20.998	ug/l		100
46) Dibromomethane	9.465	93	38496	20.389	ug/l		97
47) Bromodichloromethane	9.648	83	88565	20.356	ug/l		96
48) Methyl methacrylate	9.441	41	43518	21.354	ug/l		98
49) 1,4-Dioxane	9.459	88	9712	397.829	ug/l		97
51) 4-Methyl-2-Pentanone	10.209	43	253567	106.423	ug/l		99
52) Toluene	10.386	92	160474	21.039	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	83098	20.387	ug/l		99
54) cis-1,3-Dichloropropene	10.075	75	96489	20.866	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	52115	20.771	ug/l		98
56) Ethyl methacrylate	10.648	69	71491	21.293	ug/l		98
57) 1,3-Dichloropropane	10.934	76	91289	20.874	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	195002	105.002	ug/l		99
59) 2-Hexanone	10.971	43	178926	108.432	ug/l		99
60) Dibromochloromethane	11.129	129	58977	20.578	ug/l		97
61) 1,2-Dibromoethane	11.239	107	51647	21.183	ug/l		100
64) Tetrachloroethene	10.861	164	48059	21.074	ug/l		97
65) Chlorobenzene	11.660	112	173499	20.189	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.727	131	53383	19.910	ug/l		99
67) Ethyl Benzene	11.727	91	293010	20.129	ug/l		96
68) m/p-Xylenes	11.837	106	229740	40.901	ug/l		98
69) o-Xylene	12.166	106	110031	21.194	ug/l		95
70) Styrene	12.178	104	192666	20.893	ug/l		98
71) Bromoform	12.349	173	30108	19.630	ug/l	#	97
73) Isopropylbenzene	12.465	105	266790	19.925	ug/l		99
74) N-amyl acetate	12.269	43	78852	20.526	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	63958	20.118	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	80336	30.894	ug/l		59
77) Bromobenzene	12.745	156	65314	20.423	ug/l		98
78) n-propylbenzene	12.800	91	339857	20.616	ug/l		98
79) 2-Chlorotoluene	12.885	91	209277	20.570	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	238429	20.975	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.513	75	18566	18.484	ug/l		92
82) 4-Chlorotoluene	12.983	91	222101	20.547	ug/l		100
83) tert-Butylbenzene	13.202	119	196393	20.817	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	241596	20.878	ug/l		99
85) sec-Butylbenzene	13.379	105	282666	19.818	ug/l		99
86) p-Isopropyltoluene	13.495	119	238749	20.078	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	129585	20.364	ug/l		96
88) 1,4-Dichlorobenzene	13.574	146	132968	20.677	ug/l		100
89) n-Butylbenzene	13.818	91	235392	20.377	ug/l		98
90) Hexachloroethane	14.092	117	41522	19.094	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	116780	20.259	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	11343	20.070	ug/l		98
93) 1,2,4-Trichlorobenzene	15.123	180	67394	19.544	ug/l		99
94) Hexachlorobutadiene	15.226	225	31990	20.753	ug/l		93
95) Naphthalene	15.360	128	173199	20.498	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	67287	21.446	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Quant Time: Aug 12 04:23:11 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)

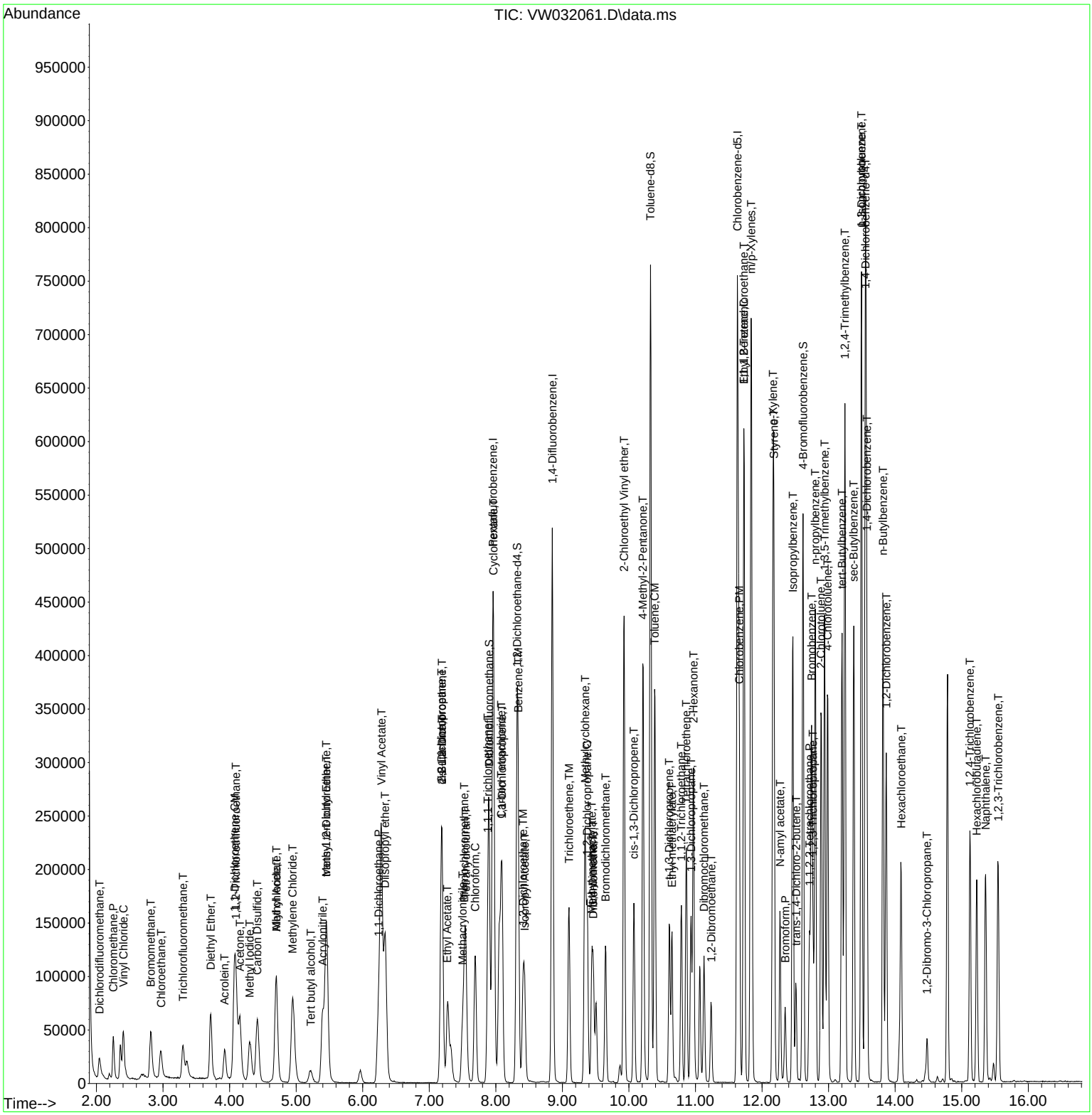
(#) = qualifier out of range (m) = manual integration (+) = signals summed

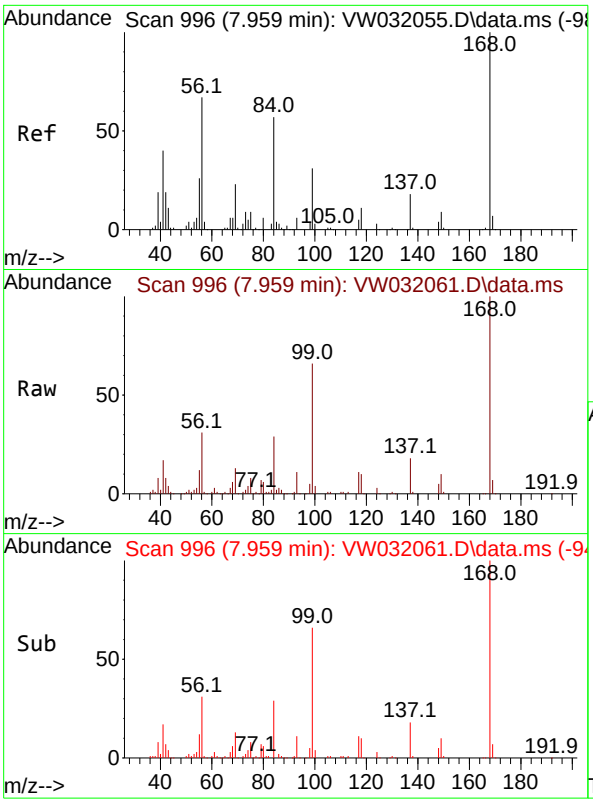
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Quant Time: Aug 12 04:23:11 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



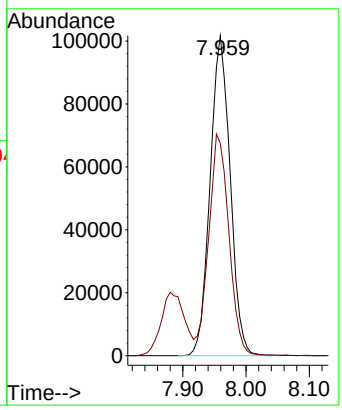


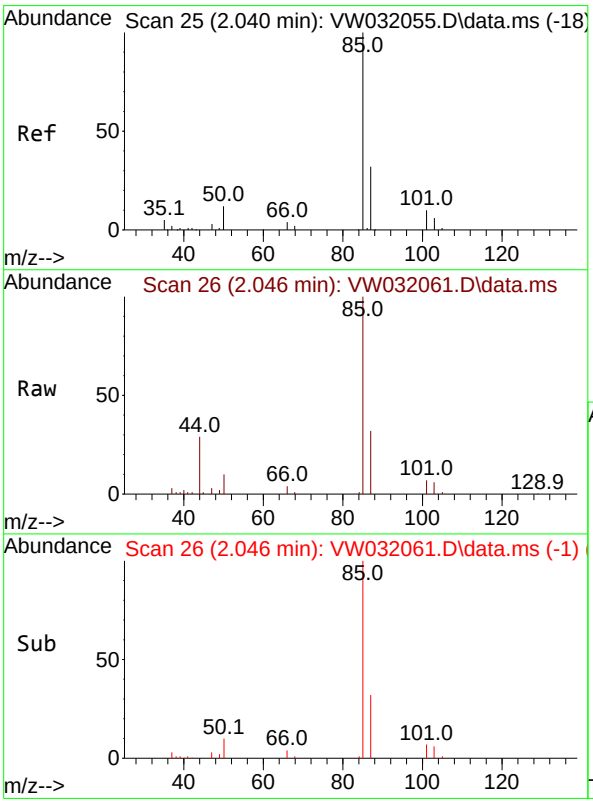
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:168 Resp: 224181

Ion	Ratio	Lower	Upper
168	100		
99	66.2	56.0	84.0

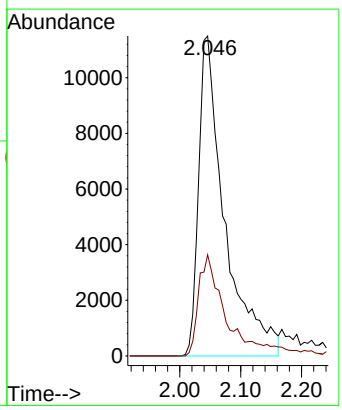


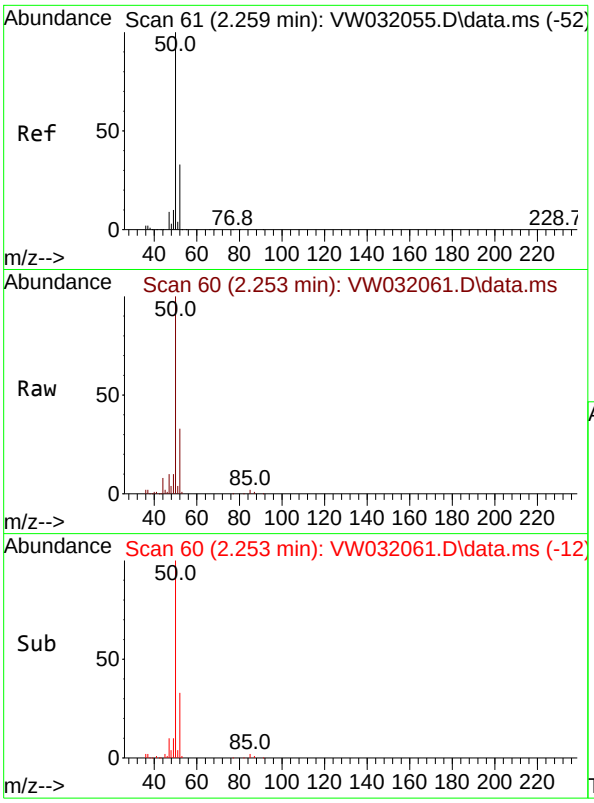


#2
Dichlorodifluoromethane
Concen: 21.336 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 85 Resp: 34210

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.2	48.6



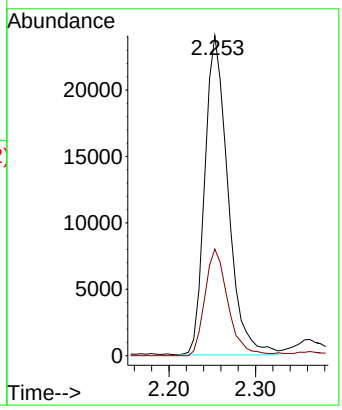


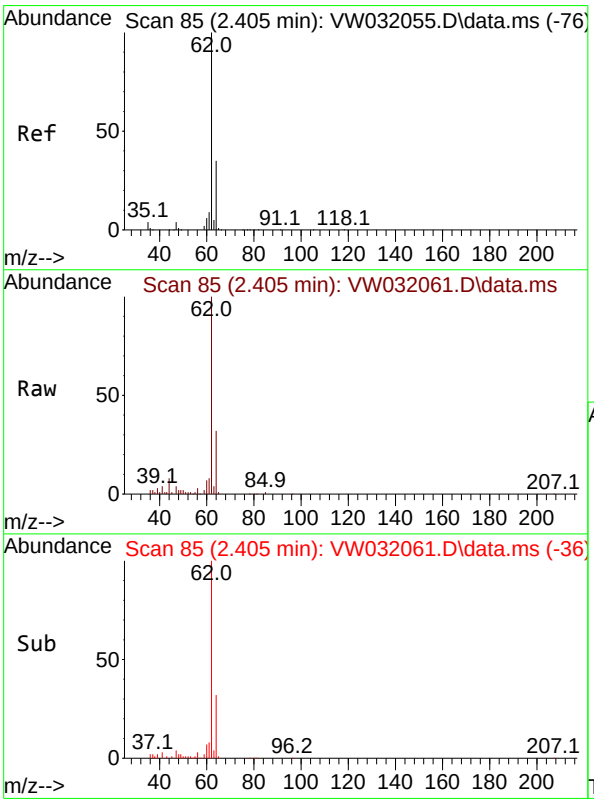
#3
Chloromethane
Concen: 20.755 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 50 Resp: 44827

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.6	39.8

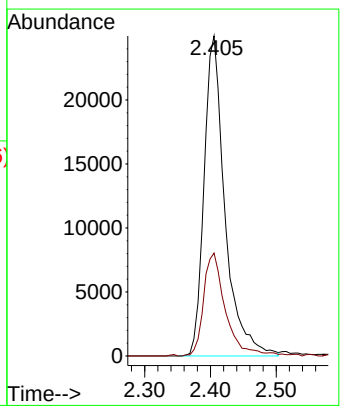


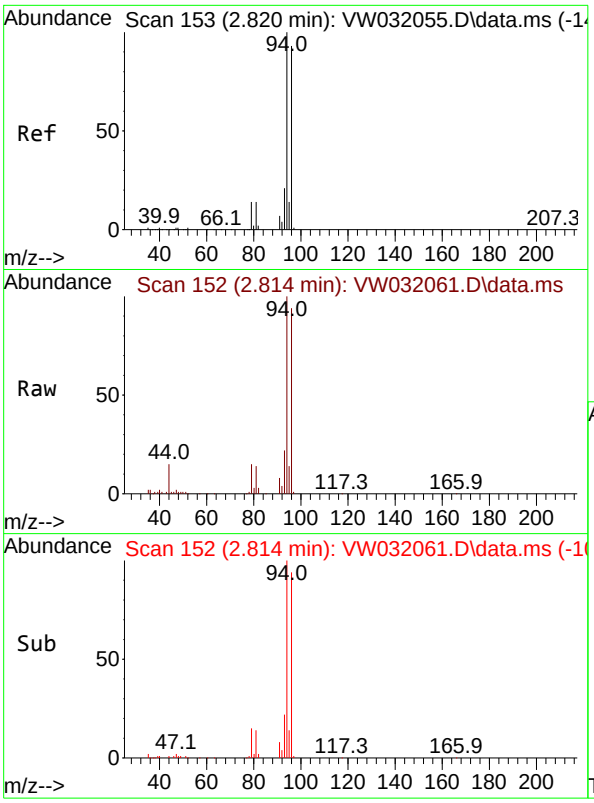


#4
Vinyl Chloride
Concen: 21.098 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 55119

Ion	Ratio	Lower	Upper
62	100		
64	32.2	27.8	41.6



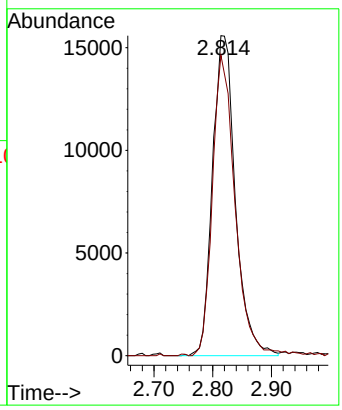


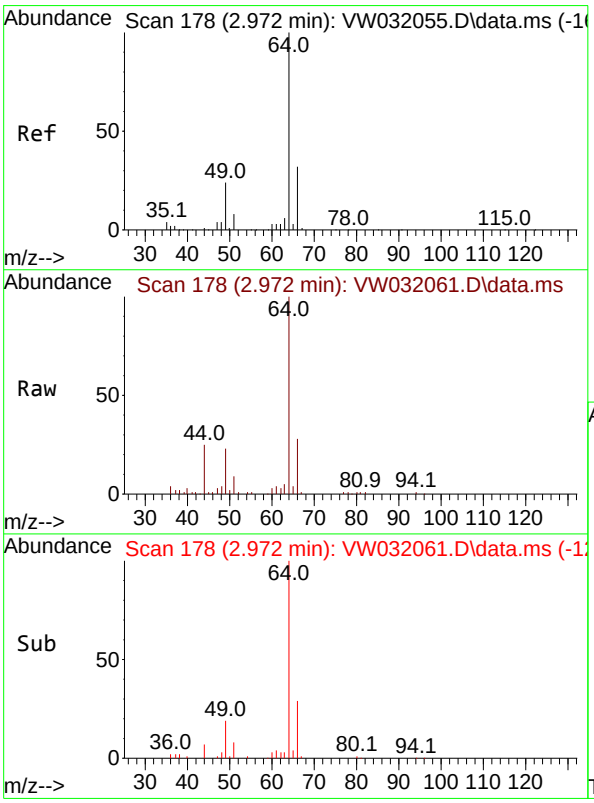
#5
Bromomethane
Concen: 21.516 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 94 Resp: 42172

Ion	Ratio	Lower	Upper
94	100		
96	93.9	74.7	112.1

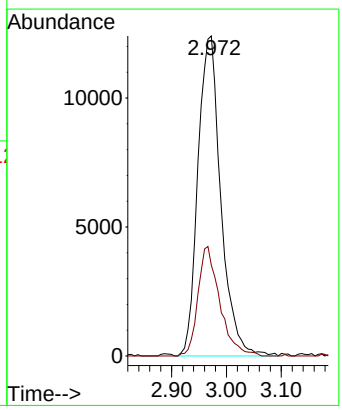


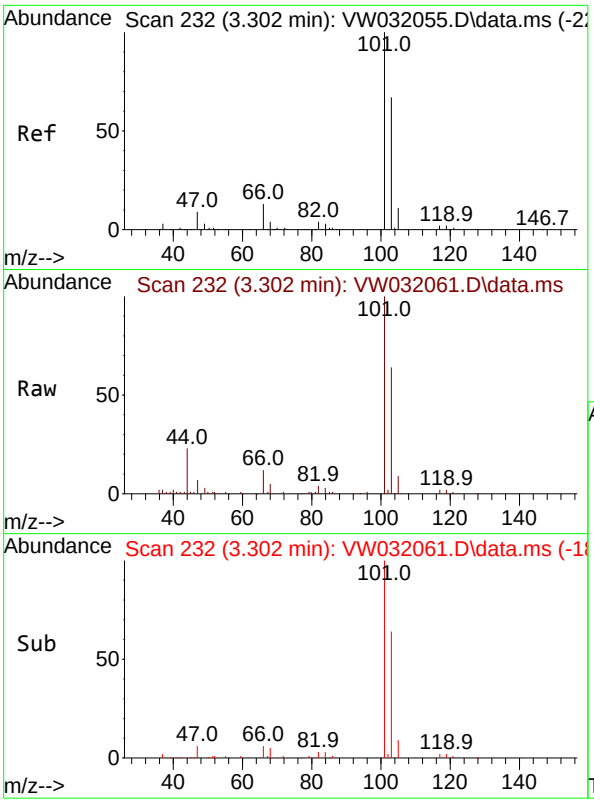


#6
Chloroethane
Concen: 20.827 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 64 Resp: 36005

Ion	Ratio	Lower	Upper
64	100		
66	28.3	26.0	39.0



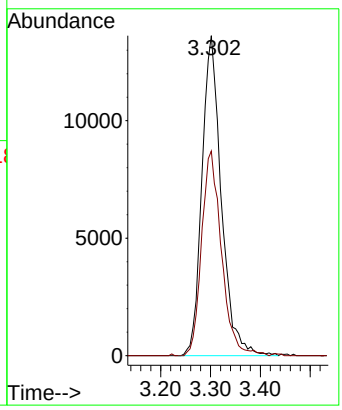


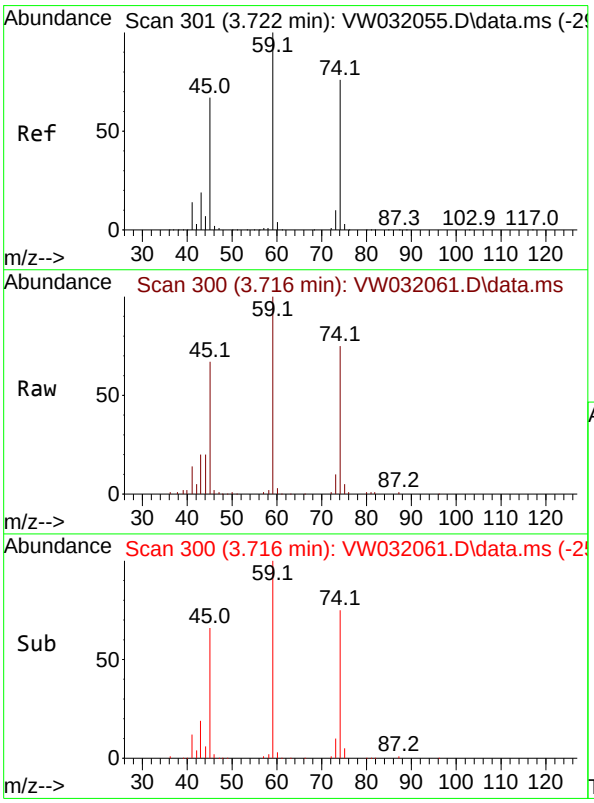
#7
Trichlorofluoromethane
Concen: 17.595 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:101 Resp: 36824

Ion	Ratio	Lower	Upper
101	100		
103	63.9	53.4	80.0

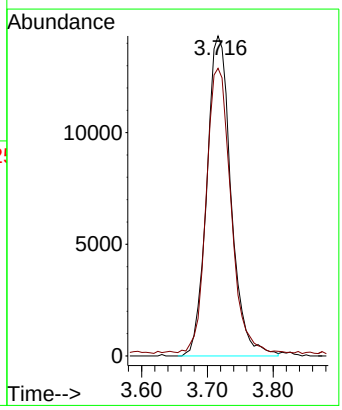


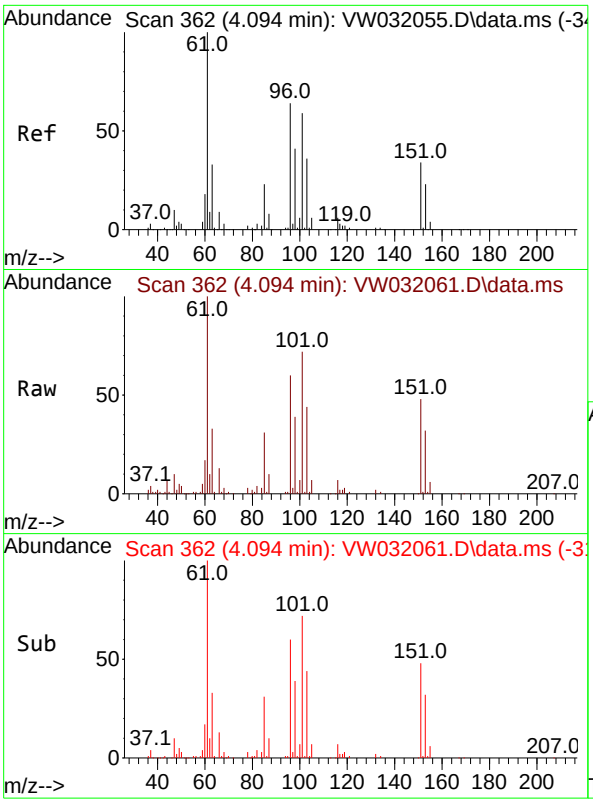


#8
Diethyl Ether
Concen: 21.483 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 74 Resp: 36836

Ion	Ratio	Lower	Upper
74	100		
45	90.0	45.4	136.2



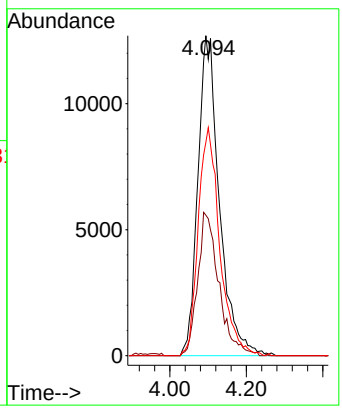


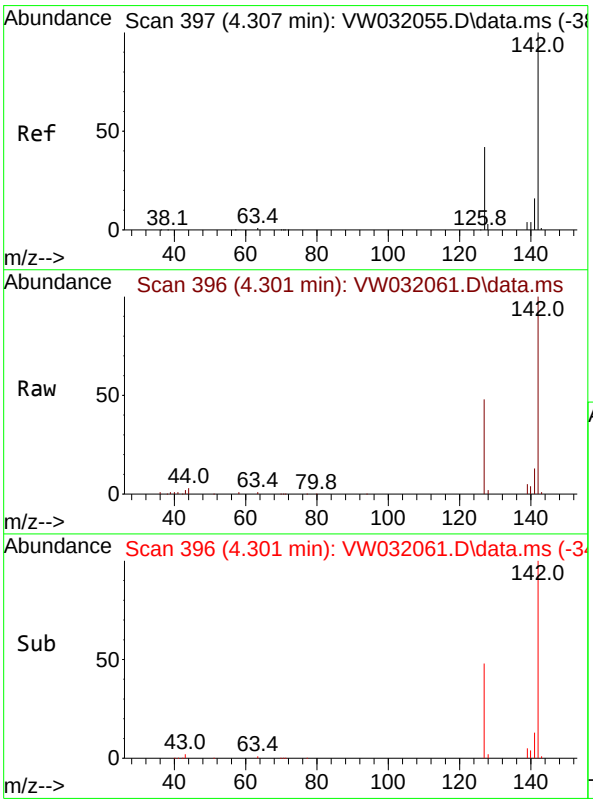
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.107 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:101 Resp: 49645

Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.9	52.3
151	71.3	56.2	84.4

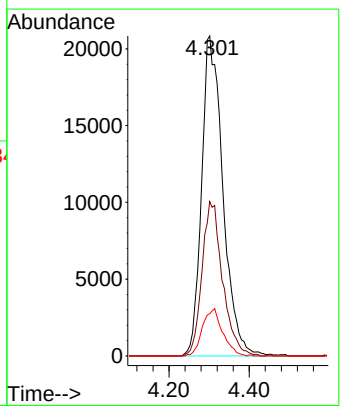


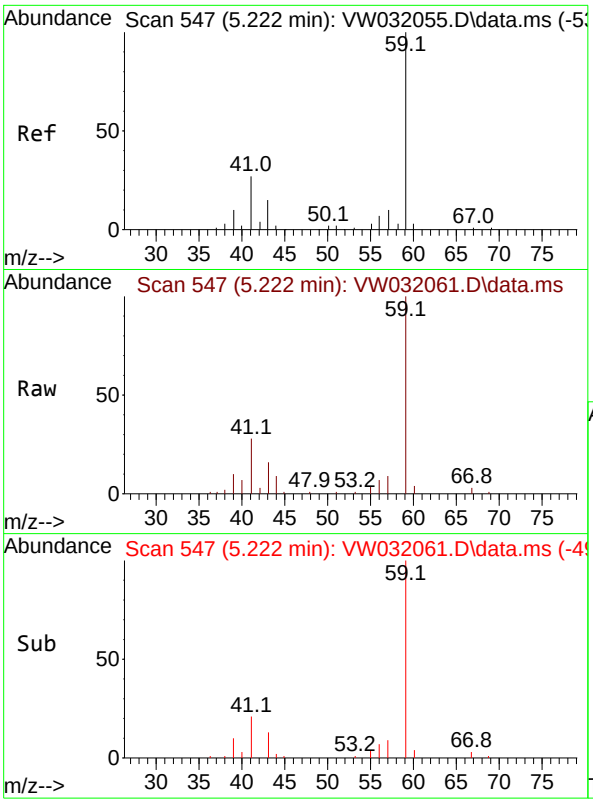


#10
Methyl Iodide
Concen: 21.970 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:142 Resp: 76912

Ion	Ratio	Lower	Upper
142	100		
127	46.4	36.6	55.0
141	14.0	12.1	18.1



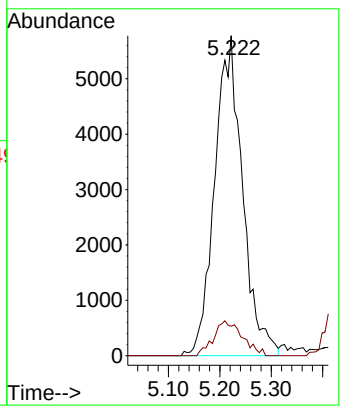


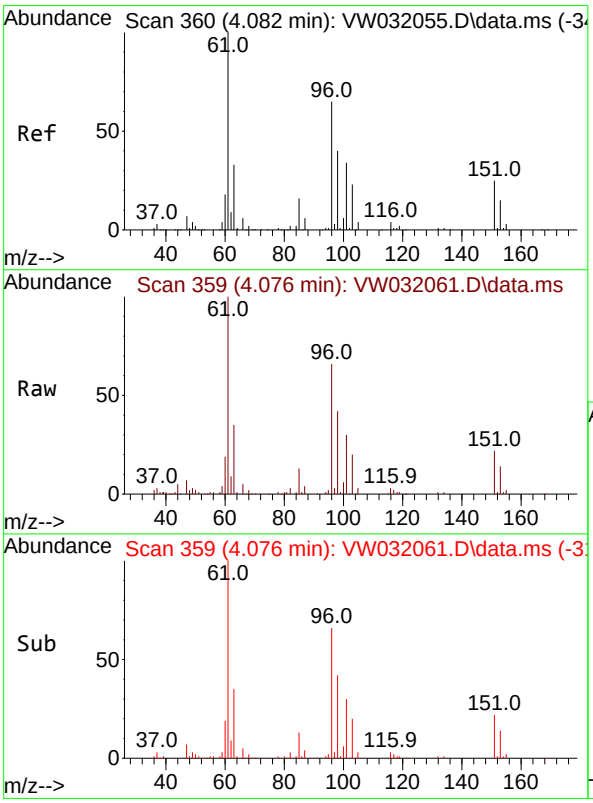
#11
Tert butyl alcohol
Concen: 103.263 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 59 Resp: 21680

Ion	Ratio	Lower	Upper
59	100		
57	11.3	8.7	13.1

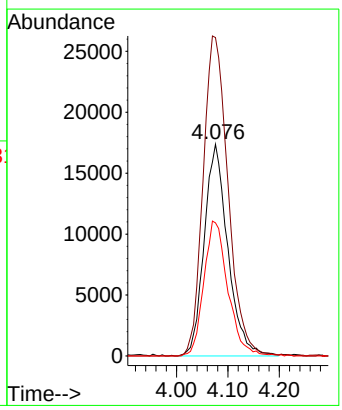


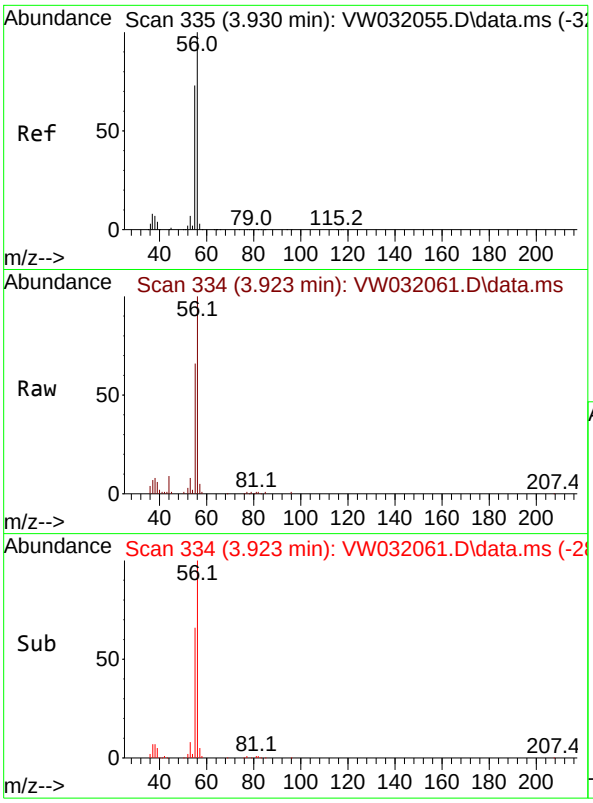


#12
1,1-Dichloroethene
Concen: 20.435 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 55559

Ion	Ratio	Lower	Upper
96	100		
61	150.5	123.4	185.2
98	62.9	49.5	74.3



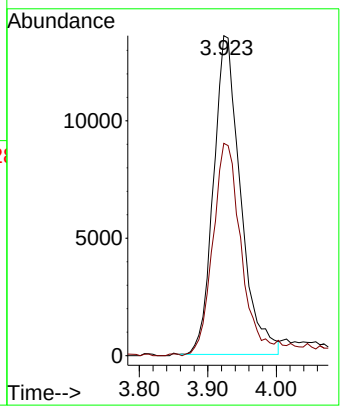


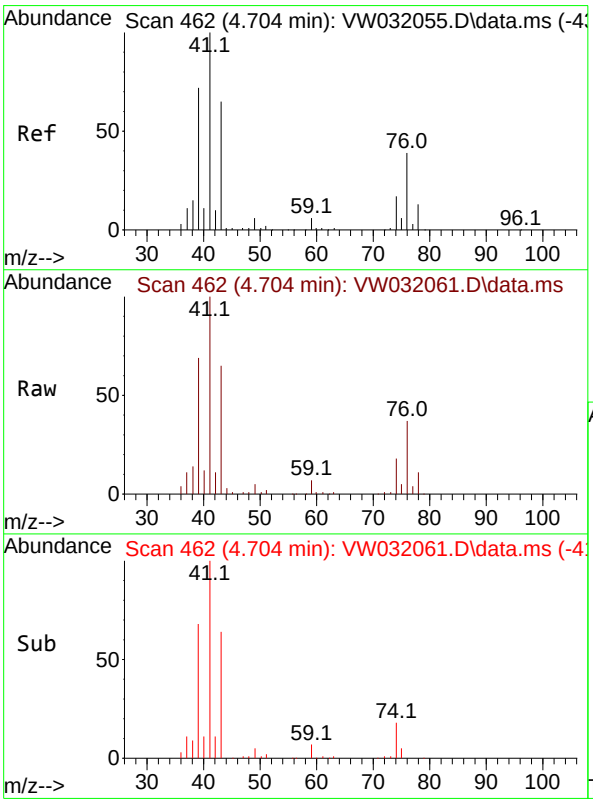
#13
Acrolein
Concen: 111.050 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 56 Resp: 37149

Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.4	83.2

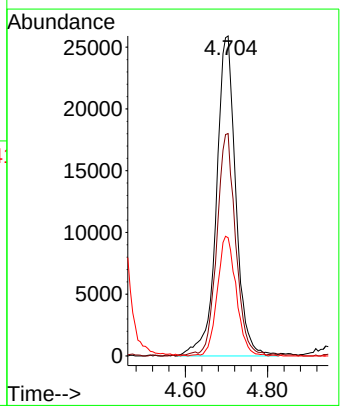


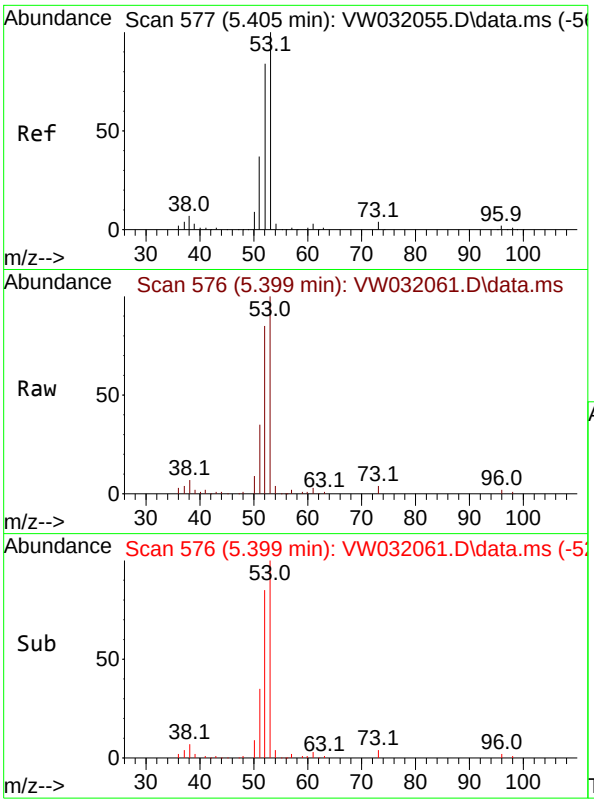


#14
Allyl chloride
Concen: 21.439 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 84834

Ion	Ratio	Lower	Upper
41	100		
39	67.7	54.5	81.7
76	36.6	29.3	43.9



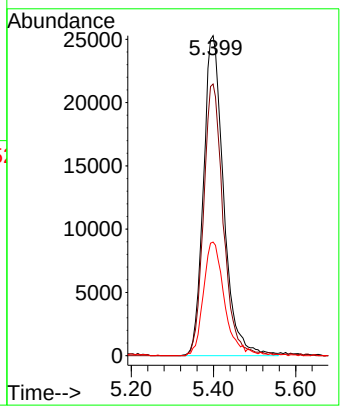


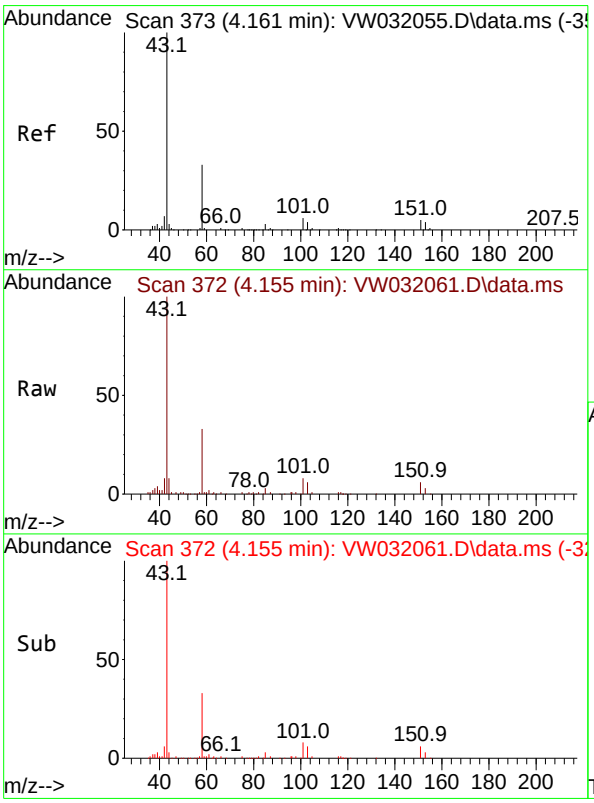
#15
Acrylonitrile
Concen: 105.428 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 53 Resp: 86103

Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.1	99.1
51	37.5	29.2	43.8

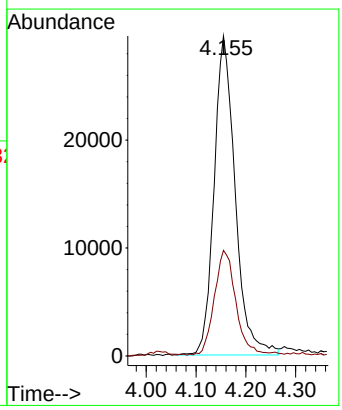


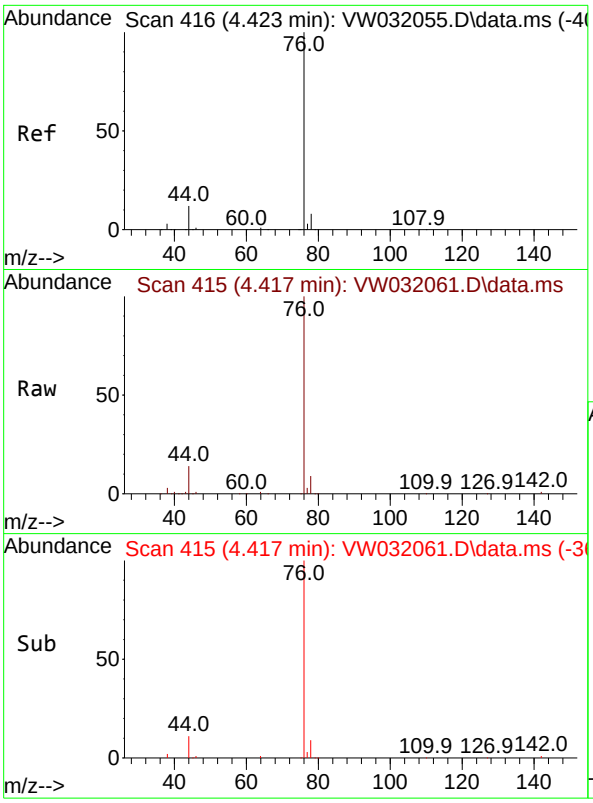


#16
Acetone
Concen: 115.783 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 86915

Ion	Ratio	Lower	Upper
43	100		
58	32.6	26.6	39.8



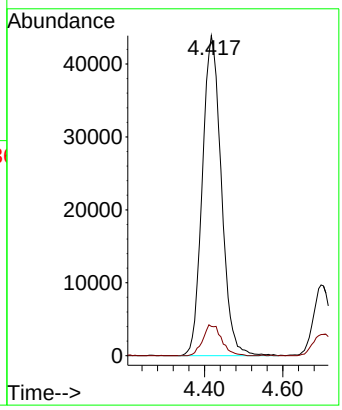


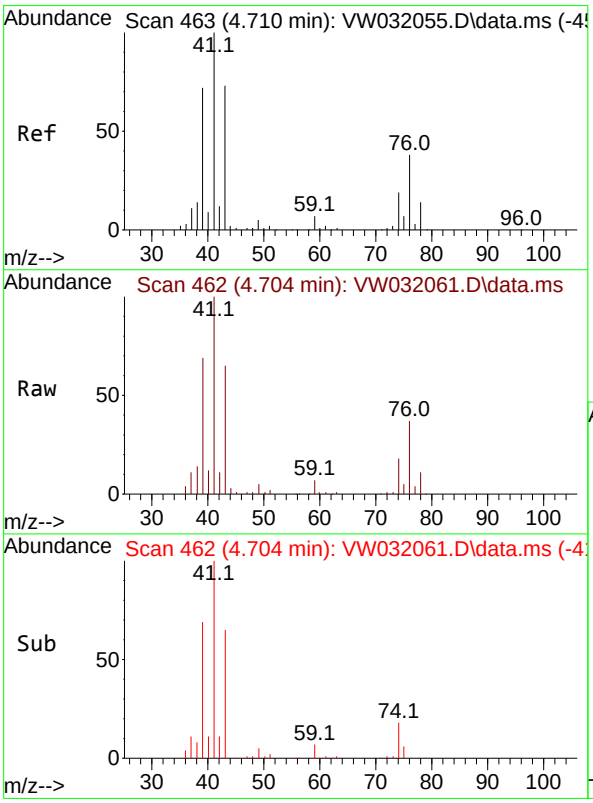
#17
Carbon Disulfide
Concen: 20.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 76 Resp: 147760

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.4	9.6

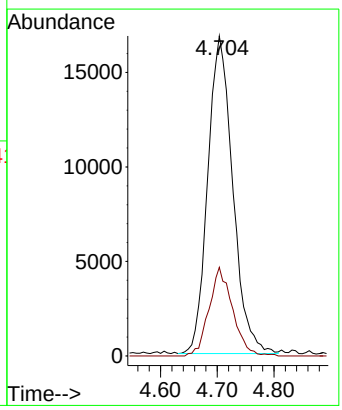


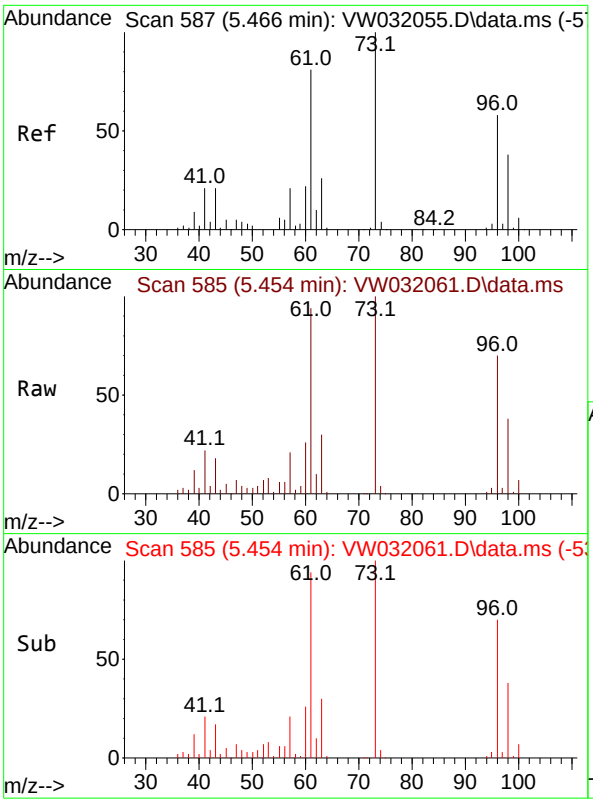


#18
Methyl Acetate
Concen: 21.665 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 51464

Ion	Ratio	Lower	Upper
43	100		
74	26.3	20.6	31.0



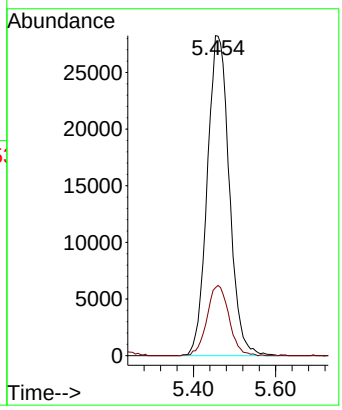


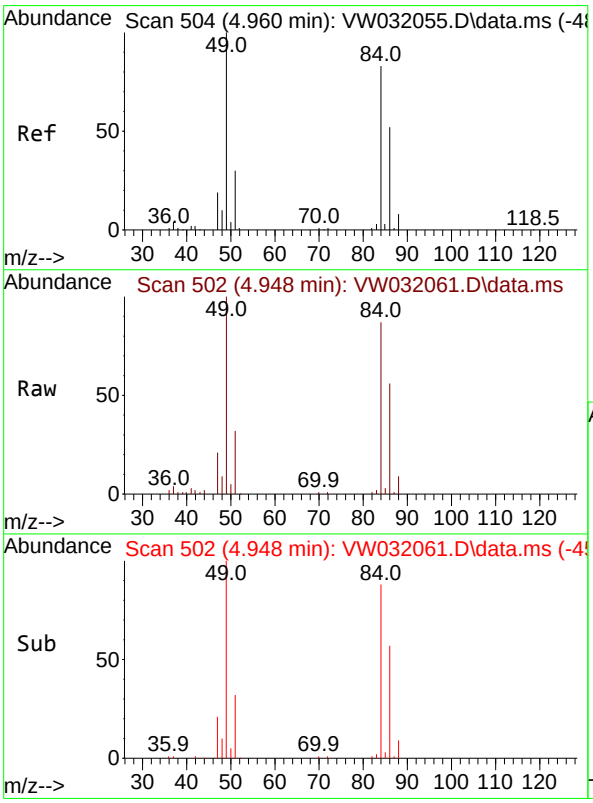
#19
Methyl tert-butyl Ether
Concen: 21.914 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 73 Resp: 104973

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.2	25.8

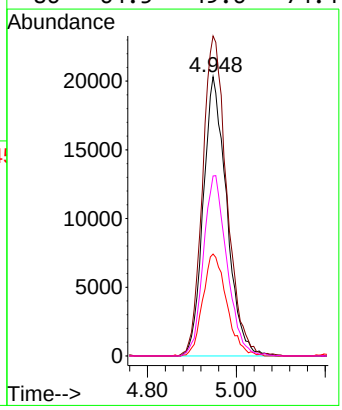


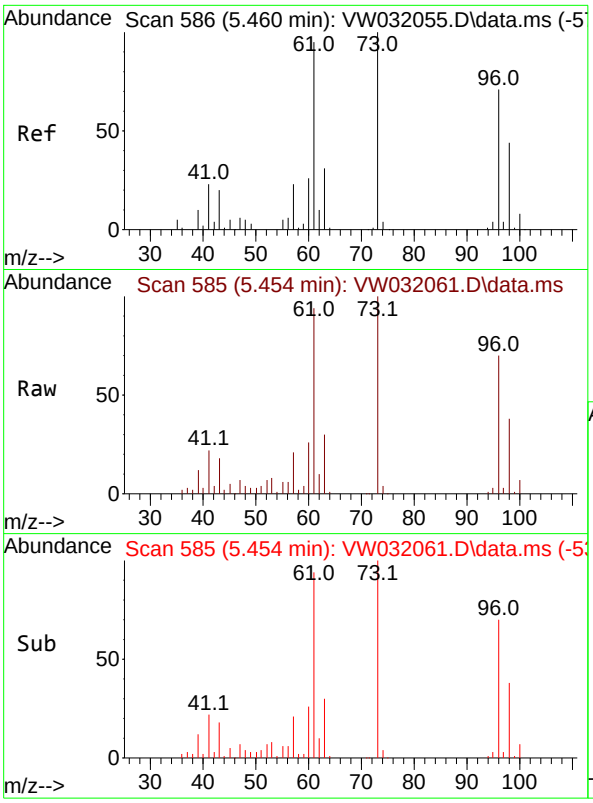


#20
Methylene Chloride
Concen: 21.408 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 84 Resp: 74303

Ion	Ratio	Lower	Upper
84	100		
49	114.6	95.9	143.9
51	36.5	28.6	43.0
86	64.5	49.6	74.4



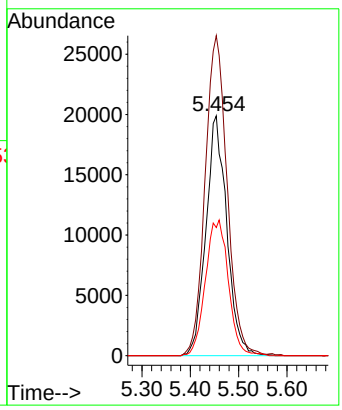


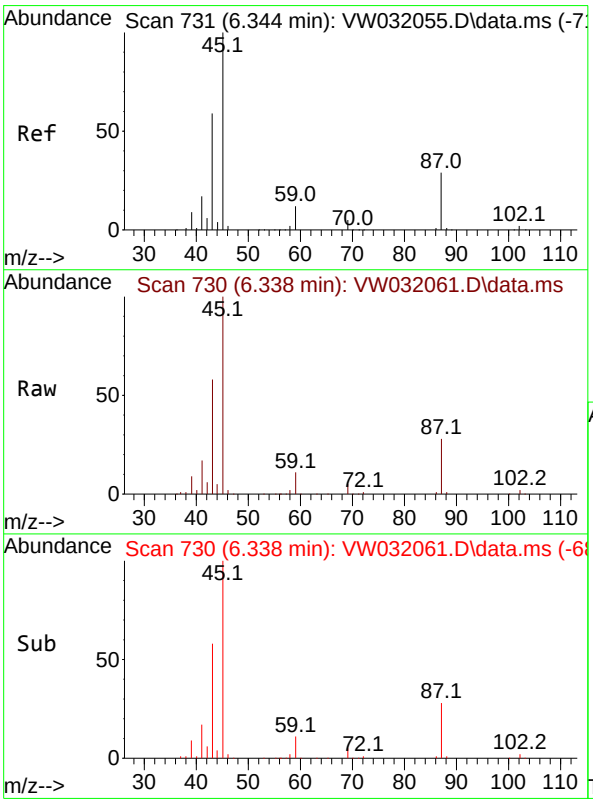
#21
trans-1,2-Dichloroethene
Concen: 20.698 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 96 Resp: 59717

Ion	Ratio	Lower	Upper
96	100		
61	133.4	106.8	160.2
98	53.4	49.6	74.4

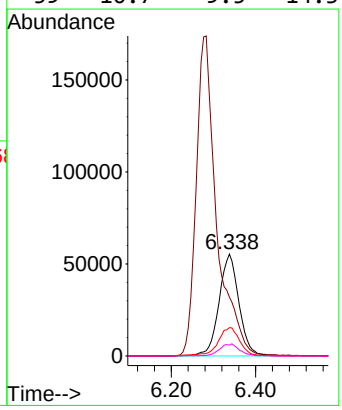


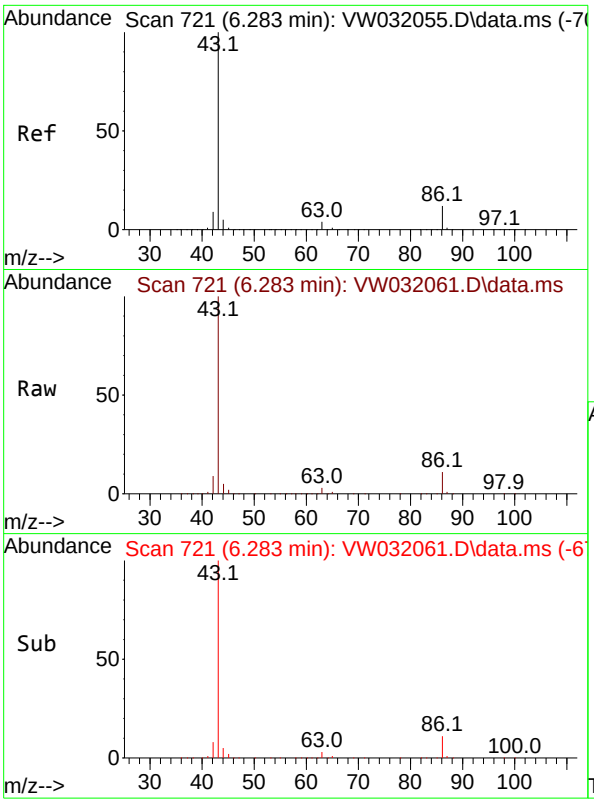


#22
Diisopropyl ether
Concen: 21.692 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 45 Resp: 180946

Ion	Ratio	Lower	Upper
45	100		
43	57.4	47.0	70.4
87	27.9	23.8	35.8
59	10.7	9.5	14.3



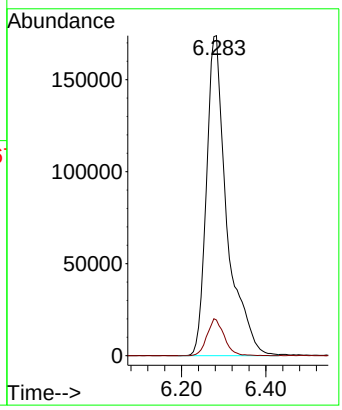


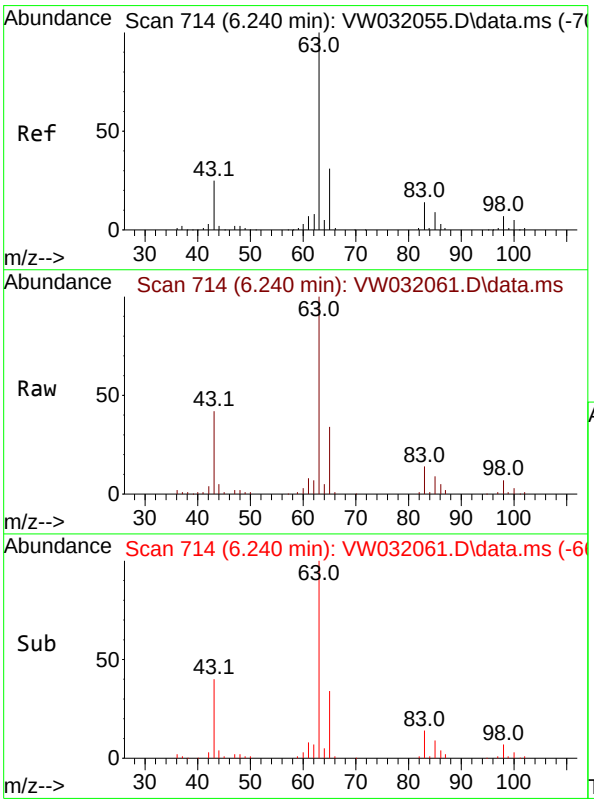
#23
Vinyl Acetate
Concen: 106.987 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 43 Resp: 585943

Ion	Ratio	Lower	Upper
43	100		
86	11.2	9.4	14.0

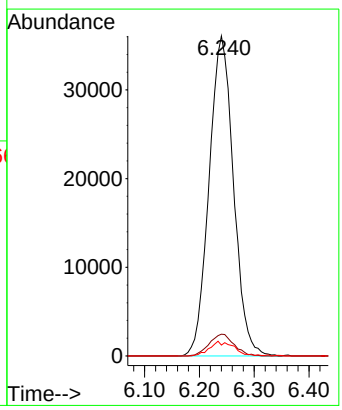


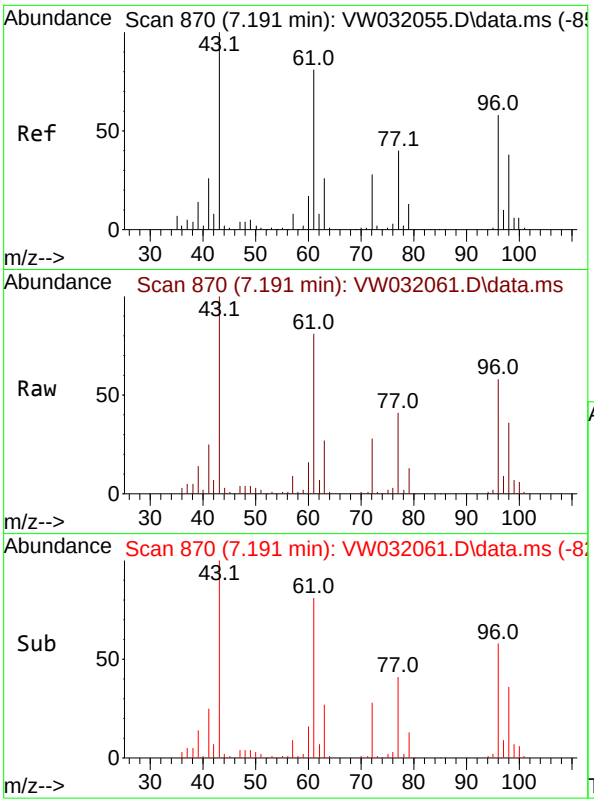


#24
1,1-Dichloroethane
Concen: 20.971 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 111769

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.7	11.1
100	3.4	2.5	7.4



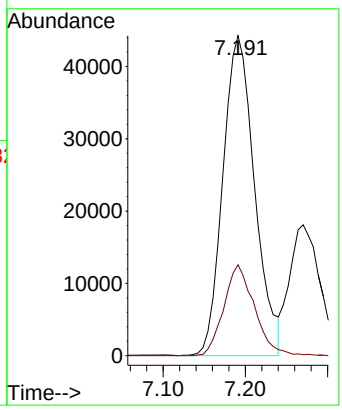


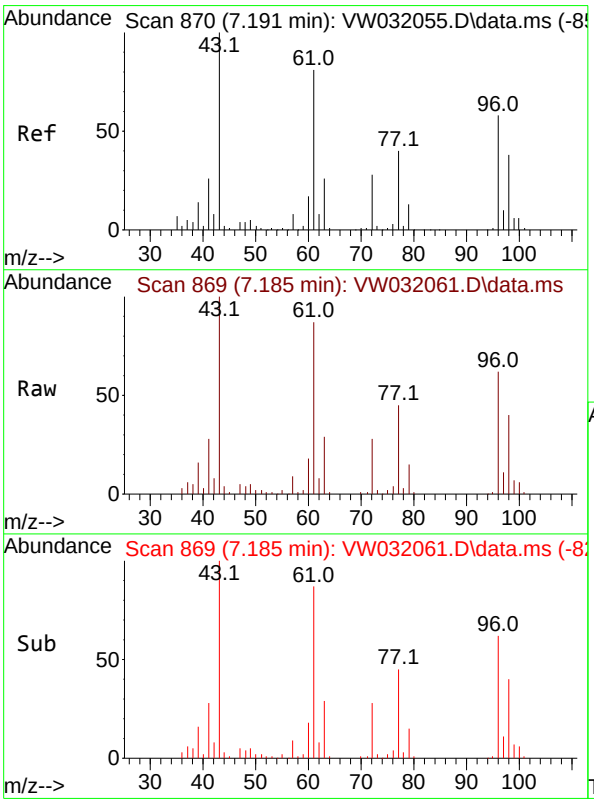
#25
2-Butanone
Concen: 111.594 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 43 Resp: 119059

Ion	Ratio	Lower	Upper
43	100		
72	28.4	22.3	33.5

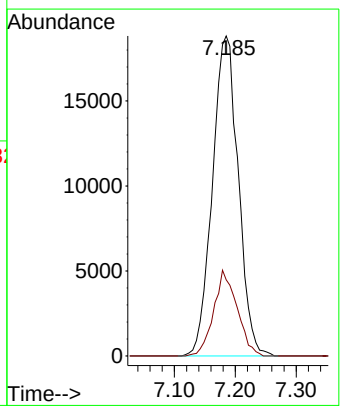


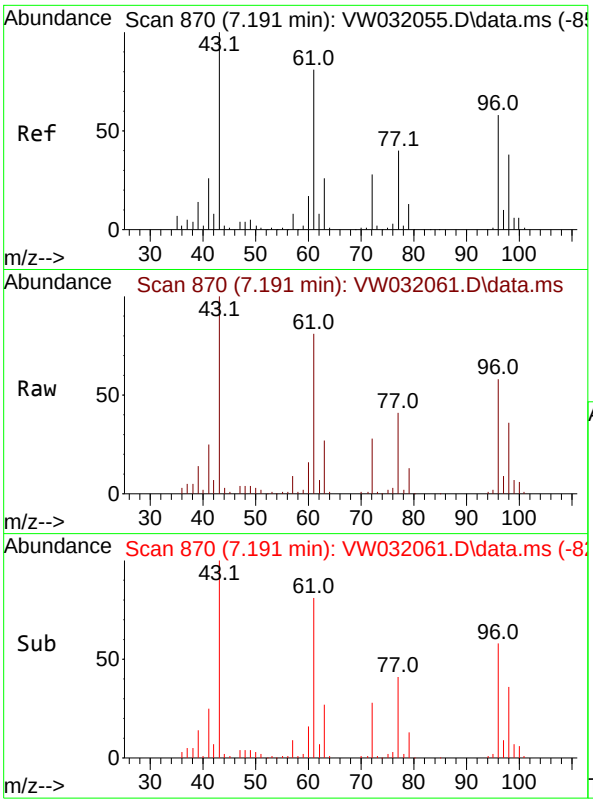


#26
2,2-Dichloropropane
Concen: 20.753 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 77 Resp: 55490

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.3	36.9



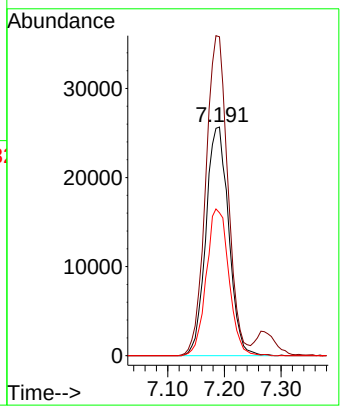


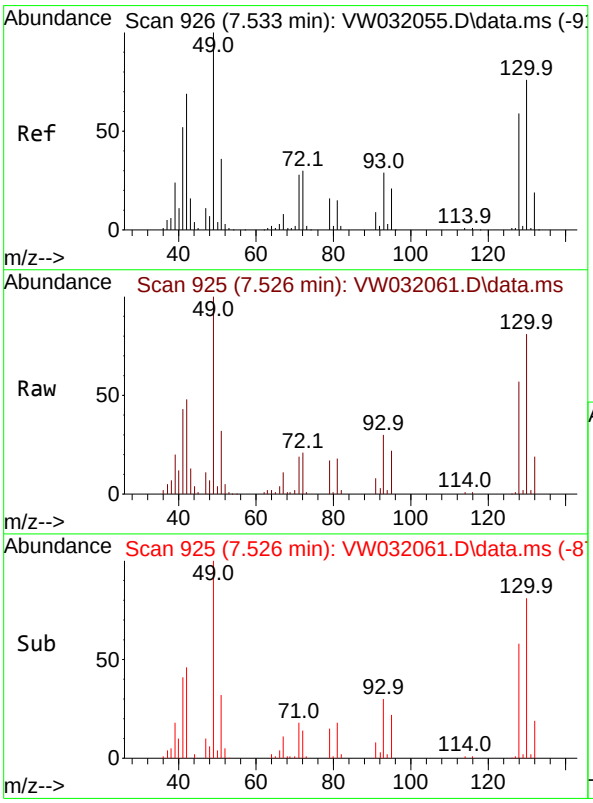
#27
cis-1,2-Dichloroethene
Concen: 21.221 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 96 Resp: 71568

Ion	Ratio	Lower	Upper
96	100		
61	136.3	0.0	281.2
98	63.8	0.0	130.8

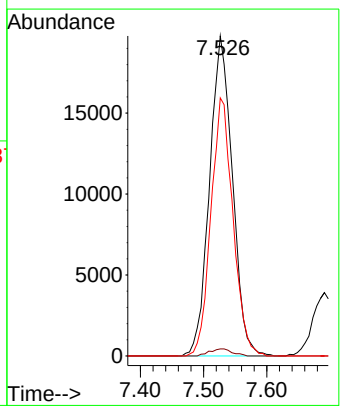


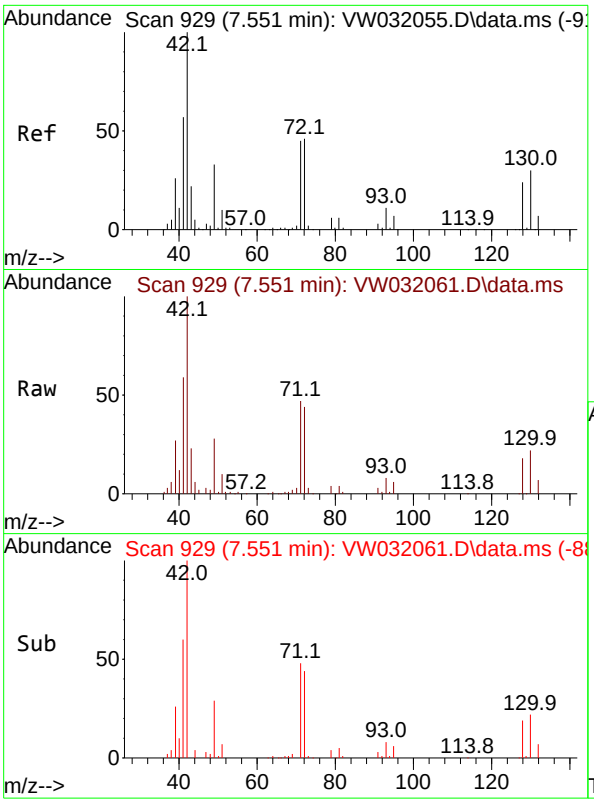


#28
Bromochloromethane
Concen: 20.501 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 49 Resp: 49722

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	77.6	61.9	92.9



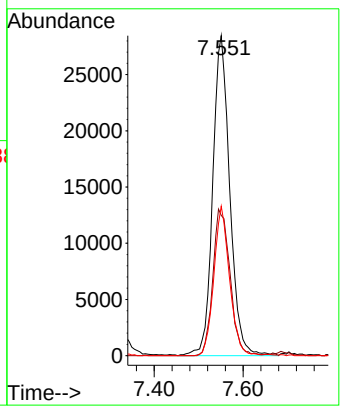


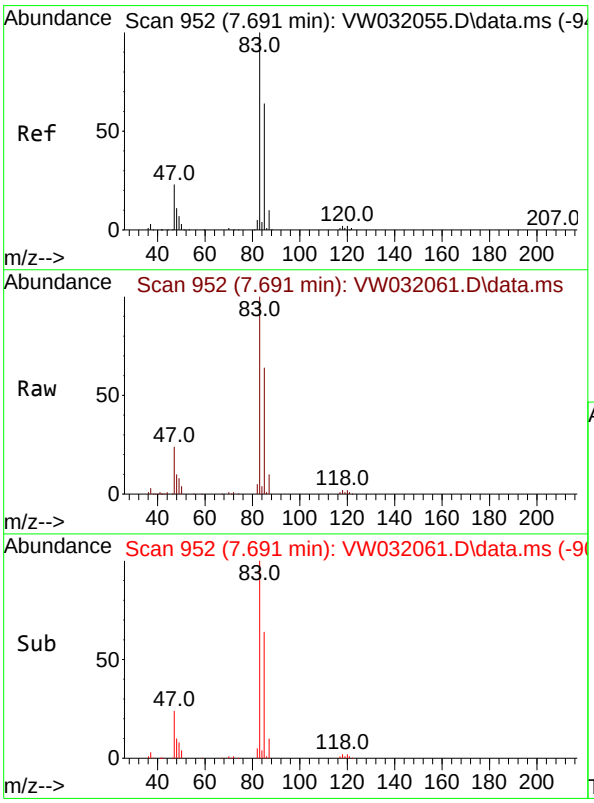
#29
Tetrahydrofuran
Concen: 107.756 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 42 Resp: 75818

Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.6	55.0
71	43.0	34.7	52.1

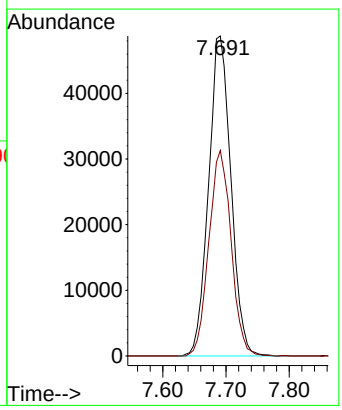


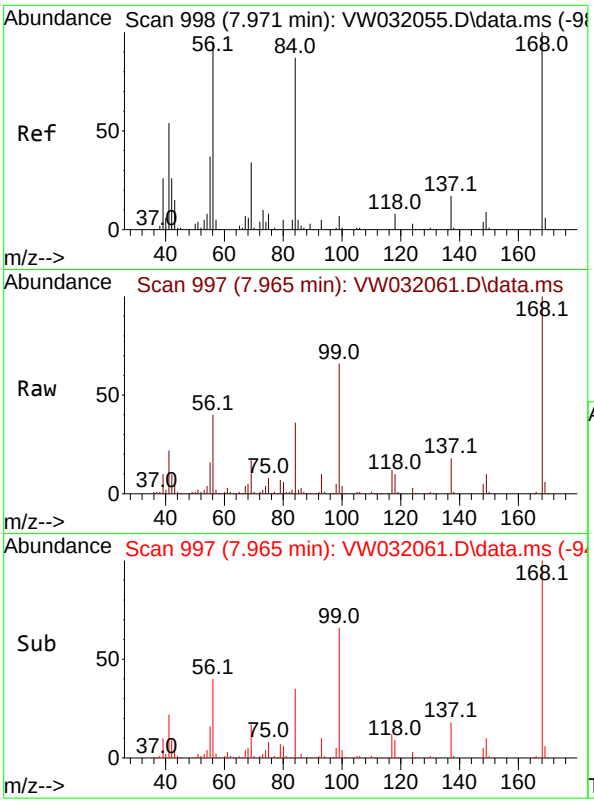


#30
Chloroform
Concen: 21.137 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 119431

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.0	76.4



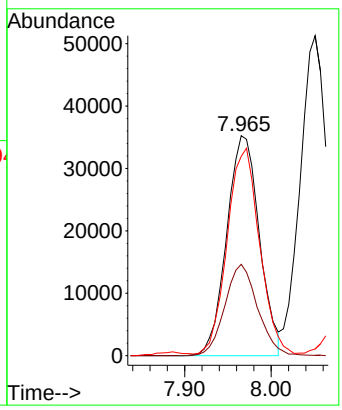


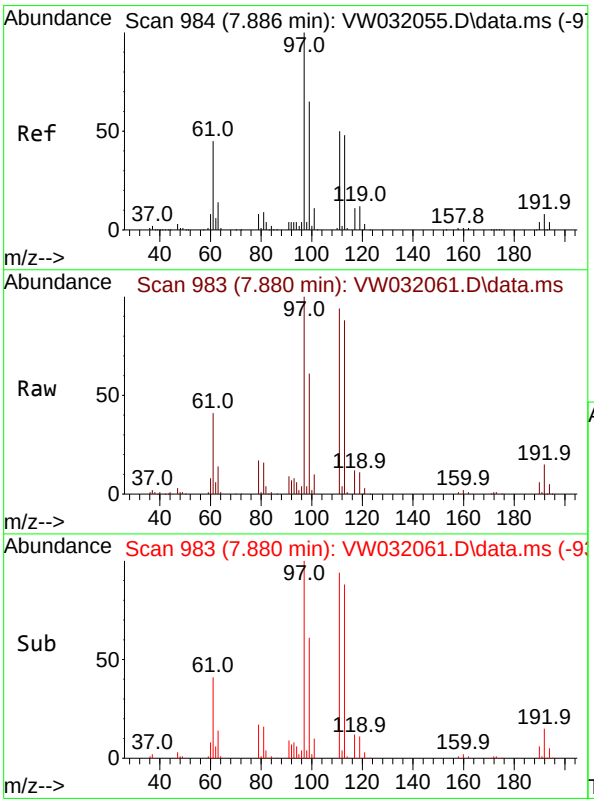
#31
Cyclohexane
Concen: 19.992 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 56 Resp: 92372

Ion	Ratio	Lower	Upper
56	100		
69	41.5	28.6	42.8
84	89.3	73.0	109.4

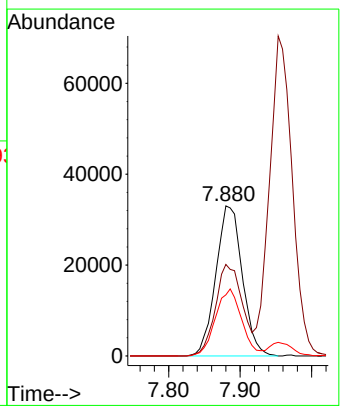


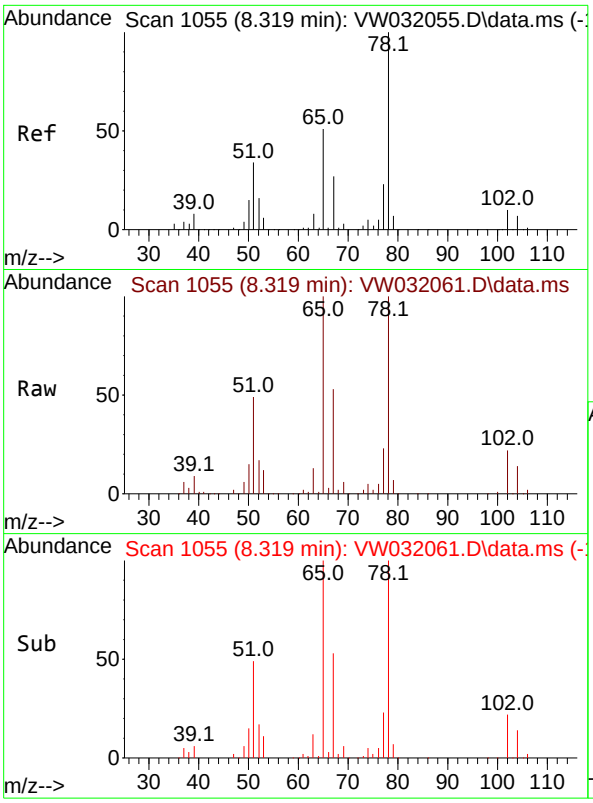


#32
1,1,1-Trichloroethane
Concen: 20.707 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 97 Resp: 84982

Ion	Ratio	Lower	Upper
97	100		
99	61.5	51.8	77.8
61	44.0	35.9	53.9



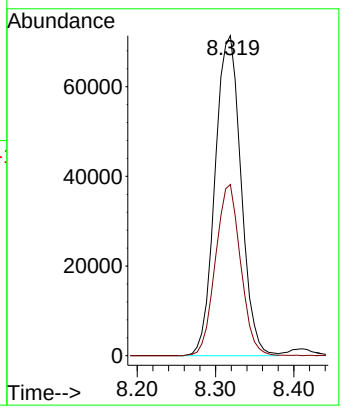


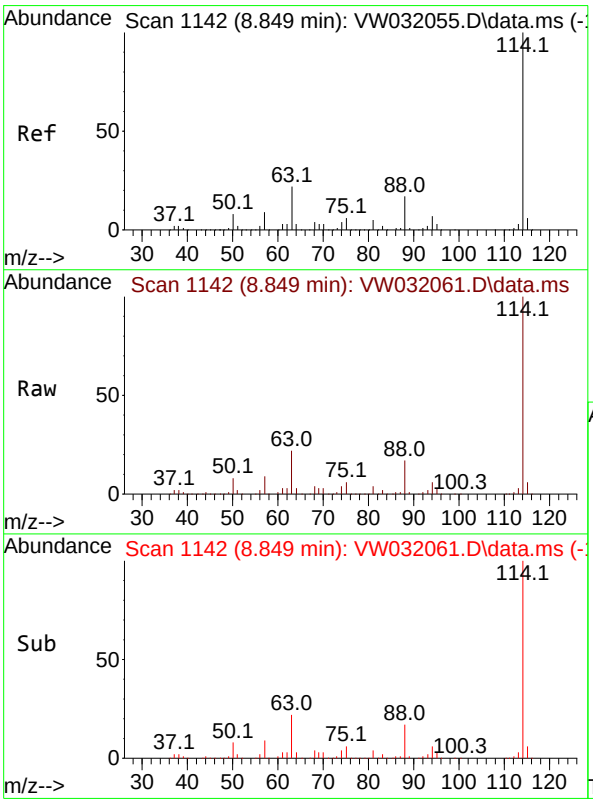
#33
1,2-Dichloroethane-d4
Concen: 50.753 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 65 Resp: 164557

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	102.4

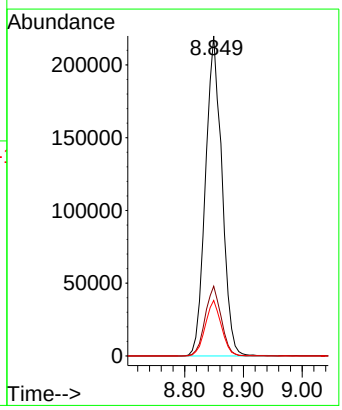


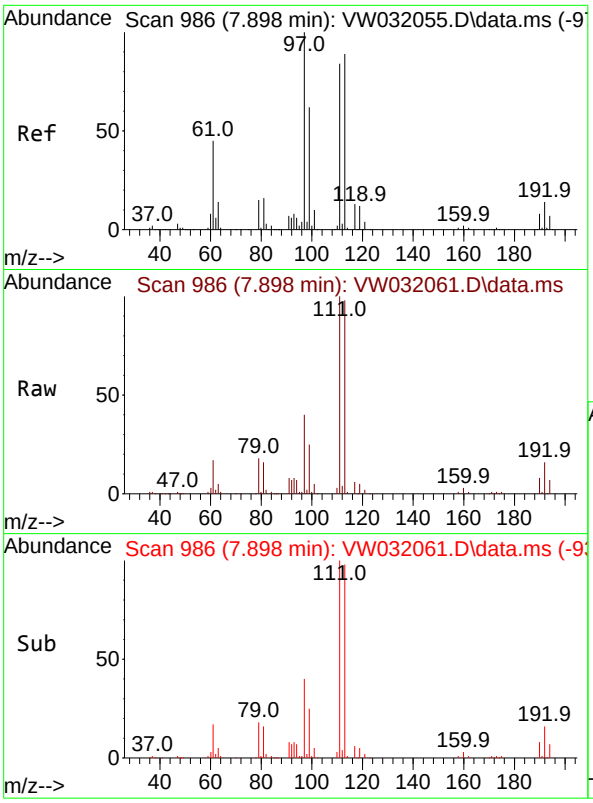


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:114 Resp: 427747

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.0
88	17.3	0.0	33.8



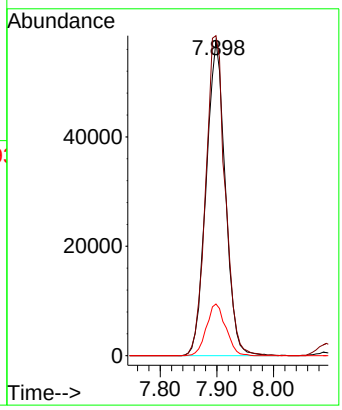


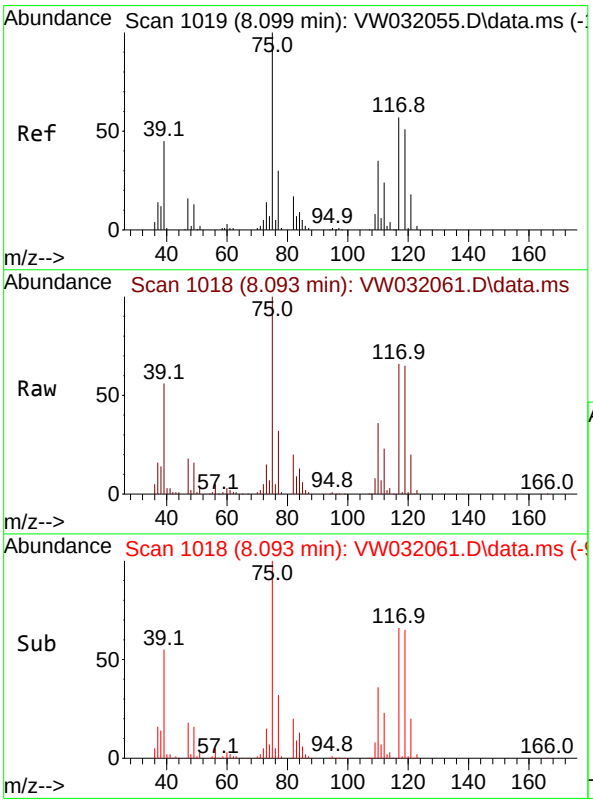
#35
Dibromofluoromethane
Concen: 48.883 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:113 Resp: 135084

Ion	Ratio	Lower	Upper
113	100		
111	103.1	80.1	120.1
192	16.5	13.1	19.7

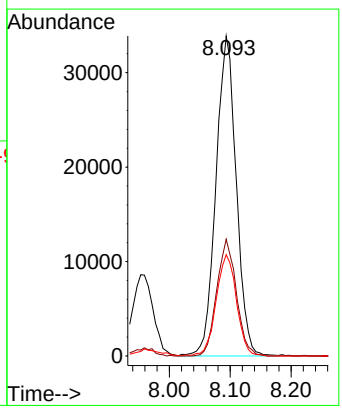


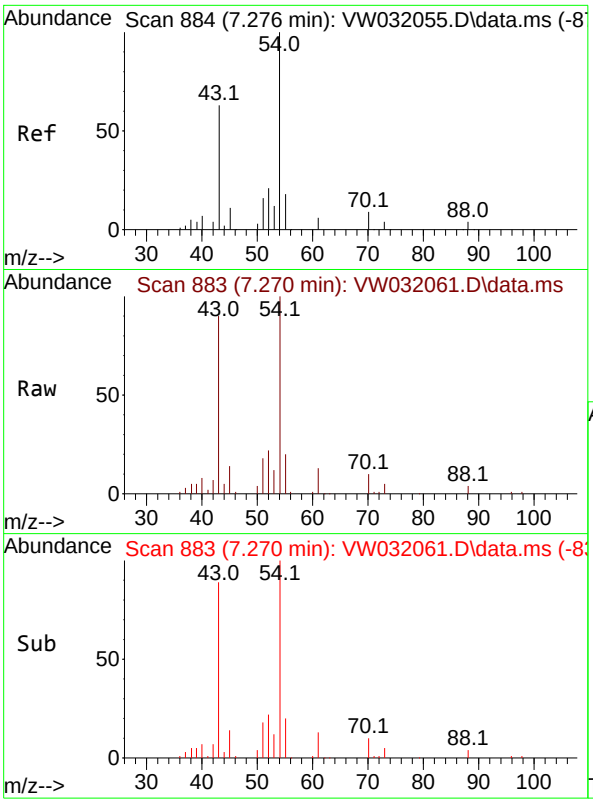


#36
1,1-Dichloropropene
Concen: 20.161 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 78541

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.4	52.2
77	31.7	24.7	37.1



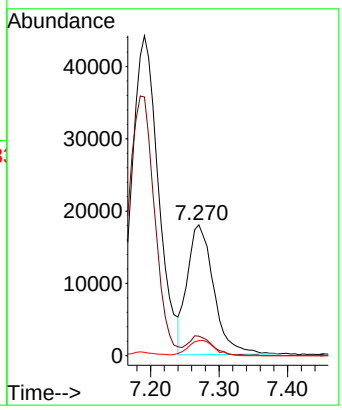


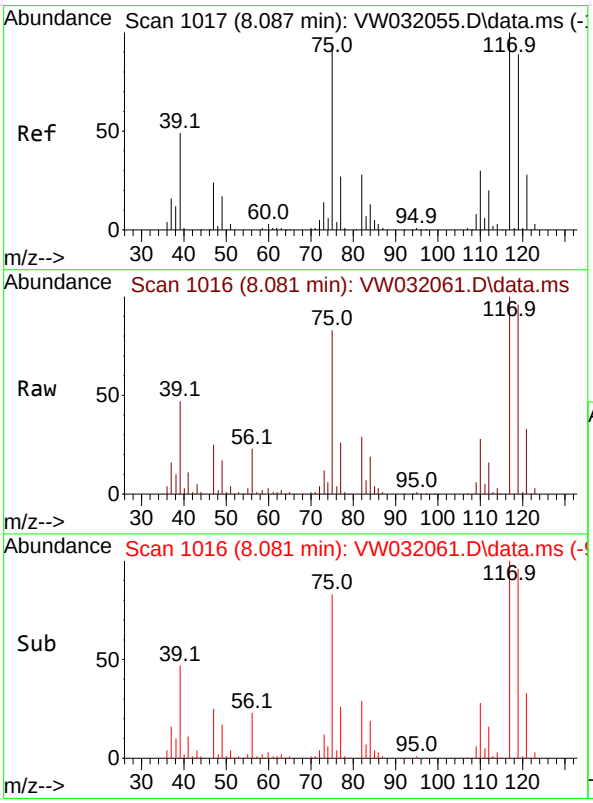
#37
Ethyl Acetate
Concen: 20.977 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 43 Resp: 48130

Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.8	17.6
70	11.7	9.4	14.0

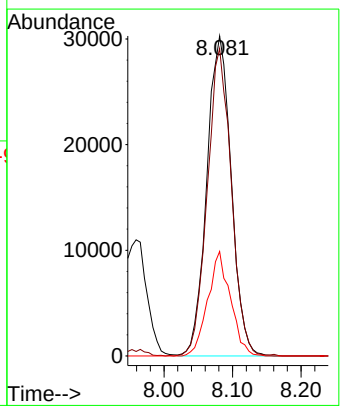


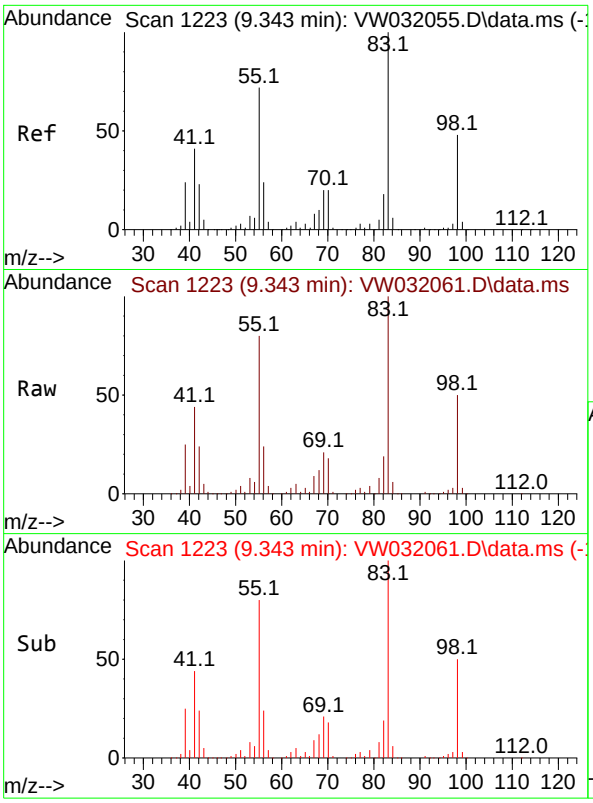


#38
Carbon Tetrachloride
Concen: 19.971 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 75079

Ion	Ratio	Lower	Upper
117	100		
119	95.9	71.4	107.2
121	32.6	22.3	33.5



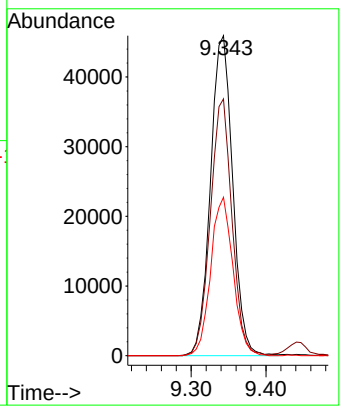


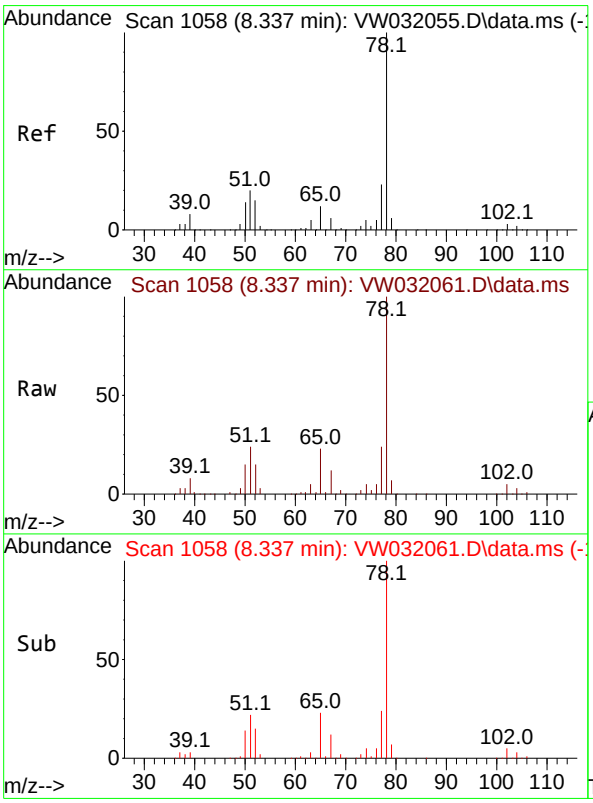
#39
Methylcyclohexane
Concen: 20.000 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 83 Resp: 94968

Ion	Ratio	Lower	Upper
83	100		
55	80.3	57.9	86.9
98	49.5	38.3	57.5

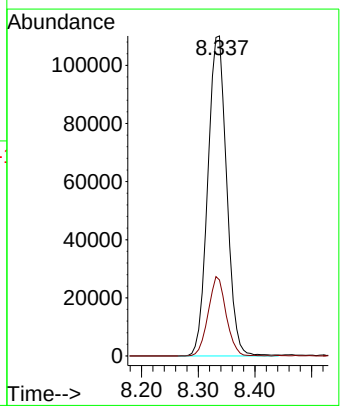


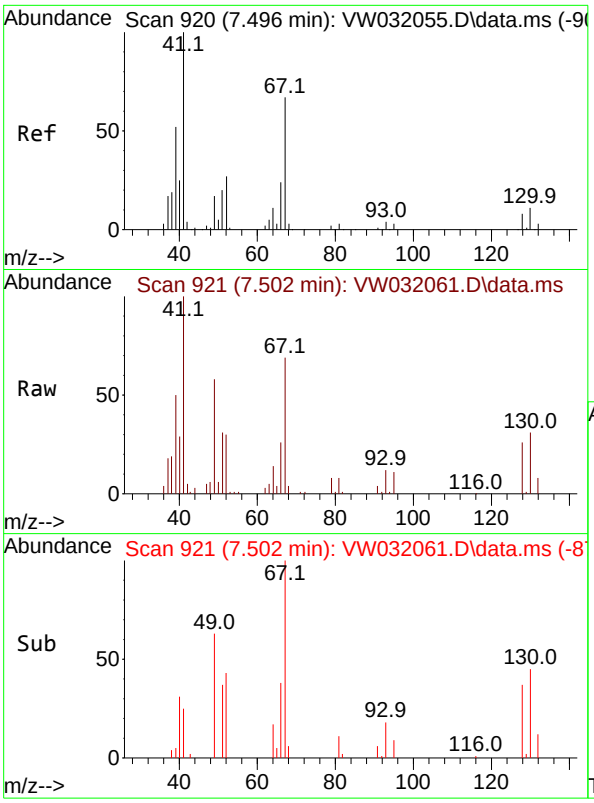


#40
Benzene
Concen: 20.993 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 78 Resp: 254209

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.4	27.6



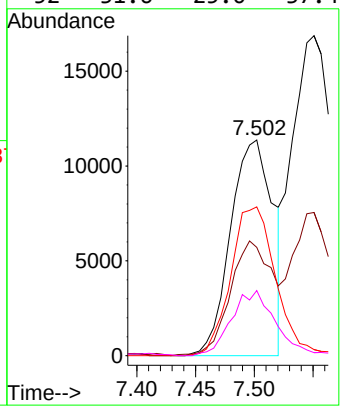


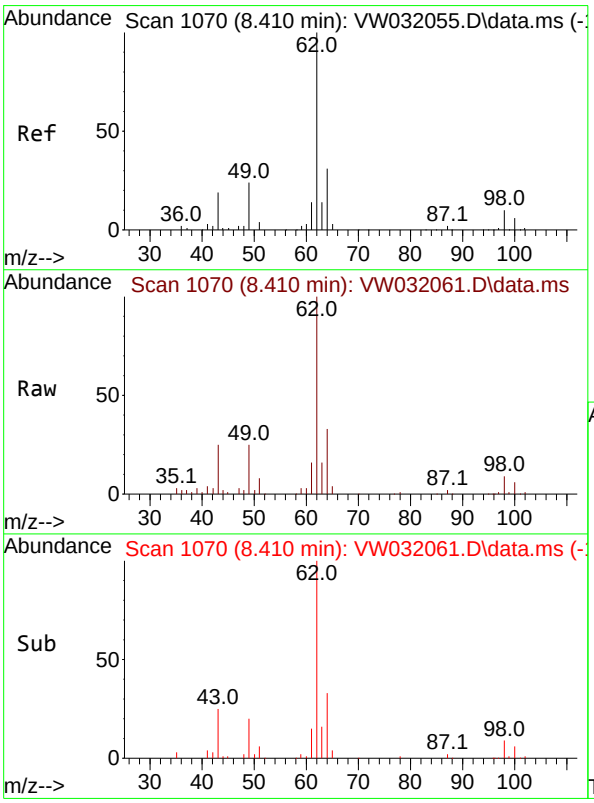
#41
Methacrylonitrile
Concen: 21.963 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 41 Resp: 28577

Ion	Ratio	Lower	Upper
41	100		
39	52.5	42.6	63.8
67	73.7	61.0	91.4
52	31.6	25.0	37.4

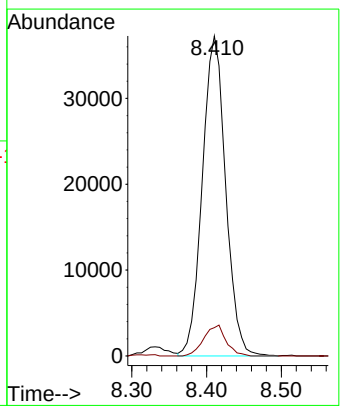


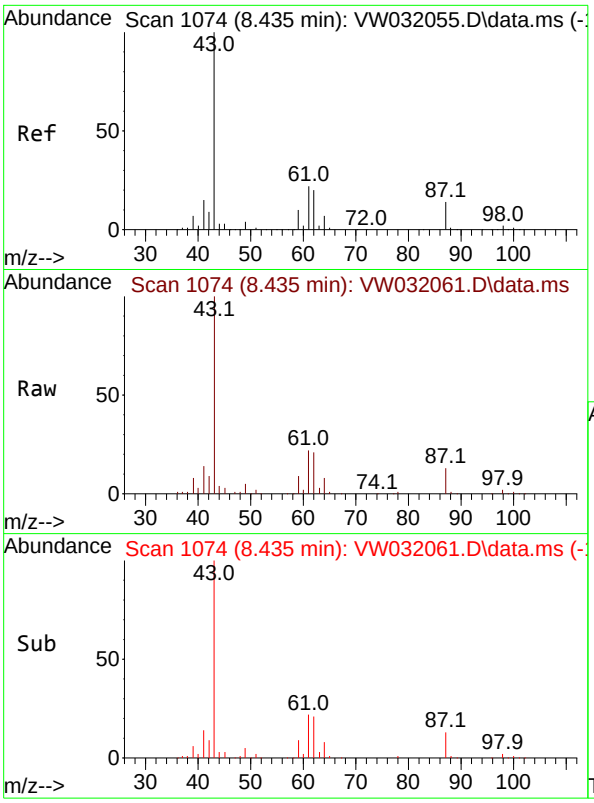


#42
1,2-Dichloroethane
Concen: 20.917 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 81049

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.8



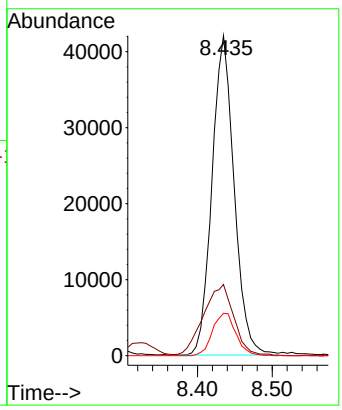


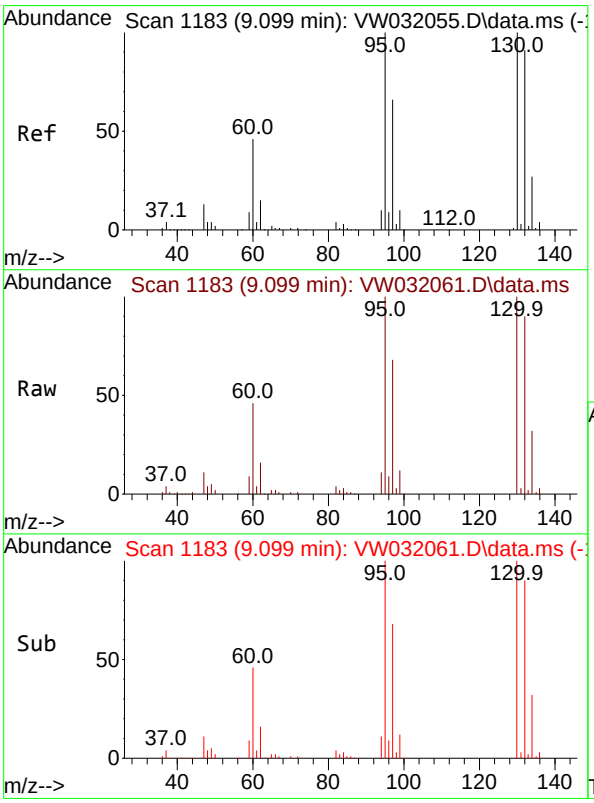
#43
Isopropyl Acetate
Concen: 20.509 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 43 Resp: 86573

Ion	Ratio	Lower	Upper
43	100		
61	30.6	23.8	35.8
87	14.1	11.7	17.5

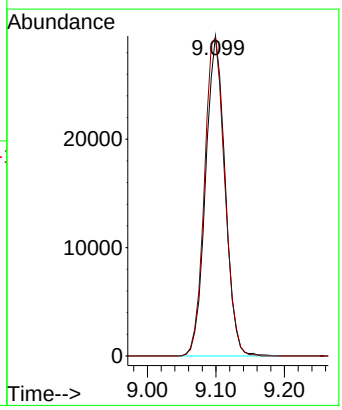


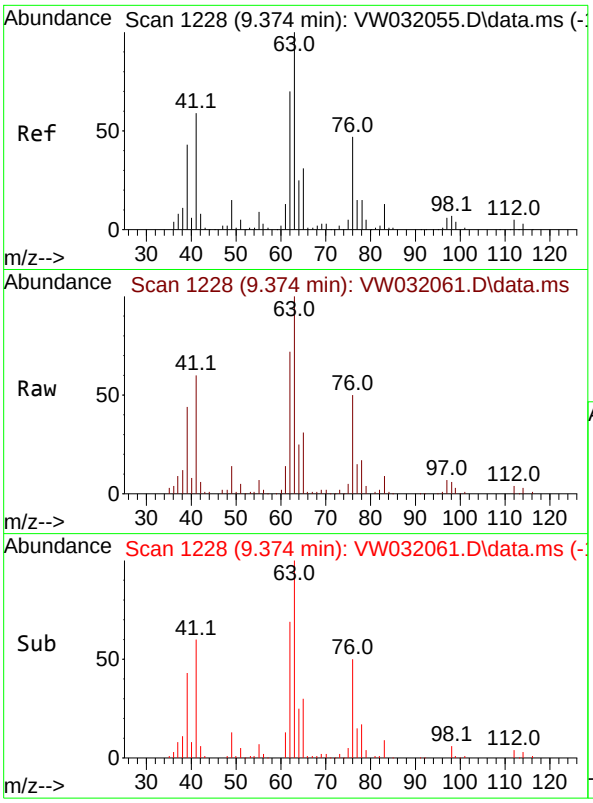


#44
Trichloroethene
Concen: 20.238 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:130 Resp: 58362

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	200.6



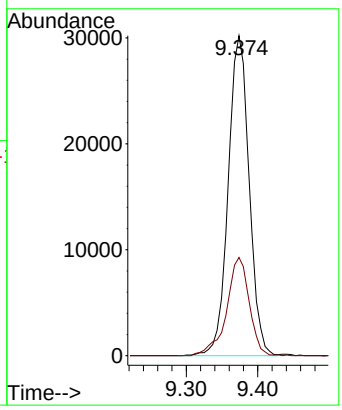


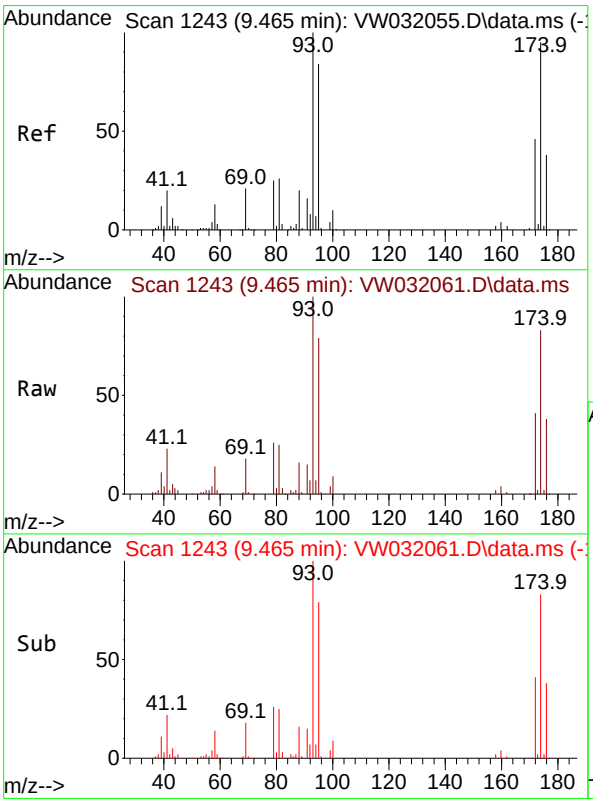
#45
1,2-Dichloropropane
Concen: 20.998 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 63 Resp: 61430

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	36.8

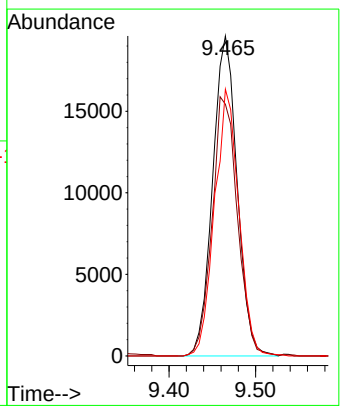


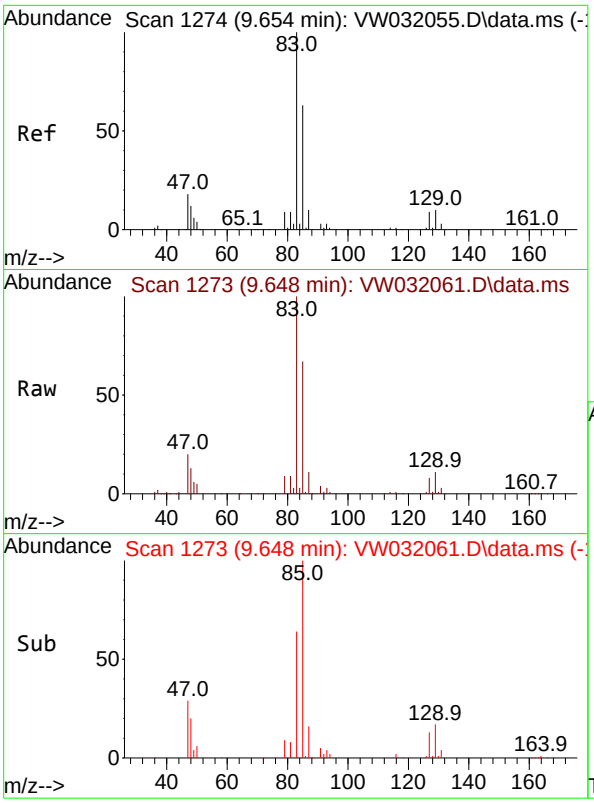


#46
Dibromomethane
Concen: 20.389 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 93 Resp: 38496

Ion	Ratio	Lower	Upper
93	100		
95	84.1	65.3	97.9
174	82.6	68.6	102.8



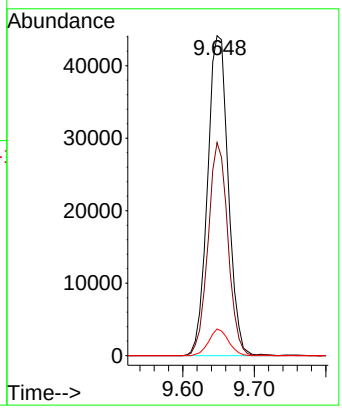


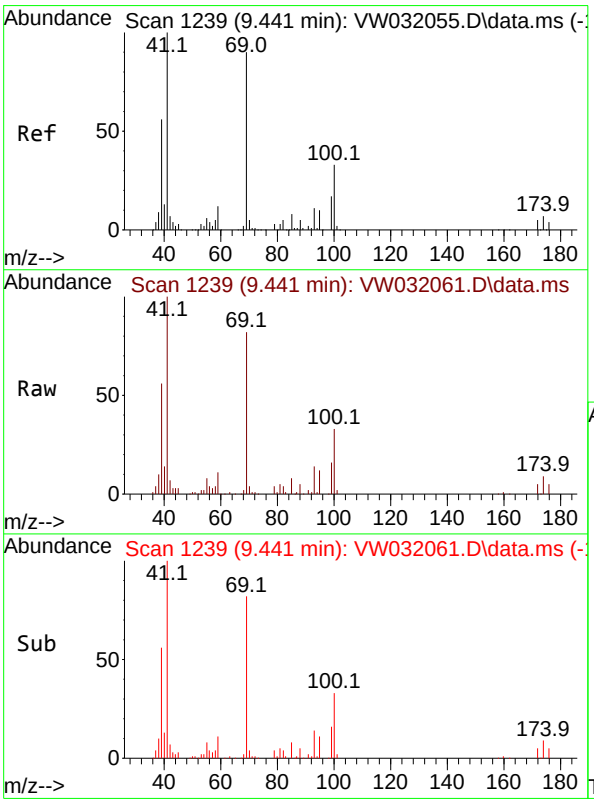
#47
Bromodichloromethane
Concen: 20.356 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 83 Resp: 88565

Ion	Ratio	Lower	Upper
83	100		
85	66.6	50.6	75.8
127	8.4	6.9	10.3

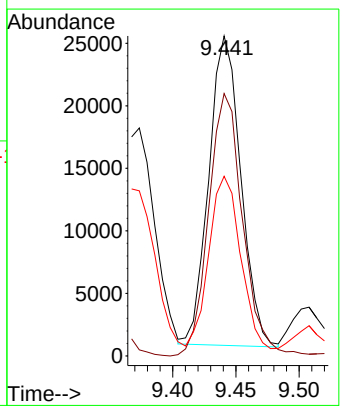


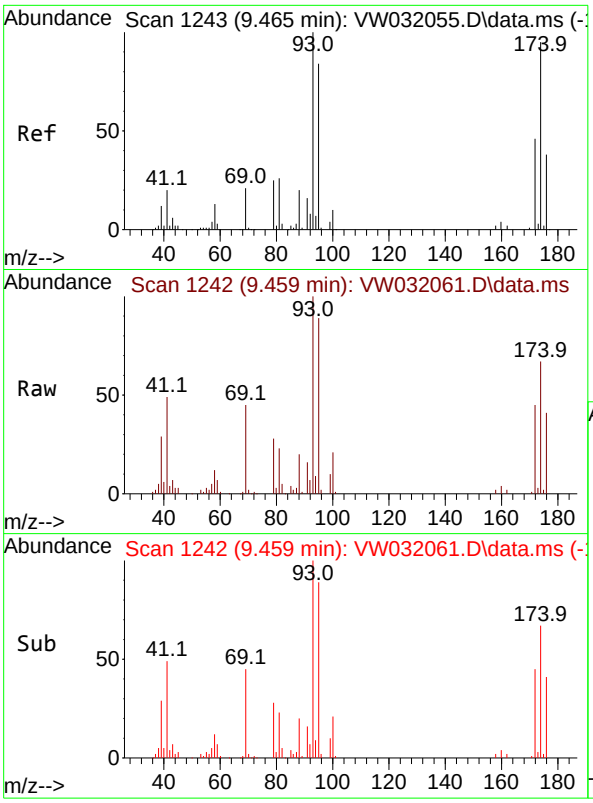


#48
Methyl methacrylate
Concen: 21.354 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 43518

Ion	Ratio	Lower	Upper
41	100		
69	90.8	73.0	109.6
39	59.7	45.0	67.4



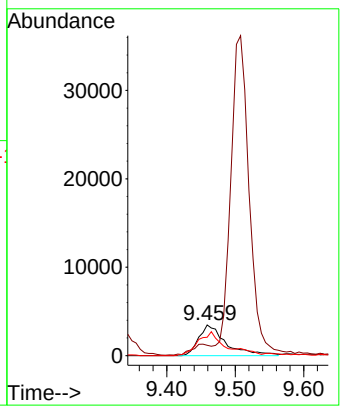


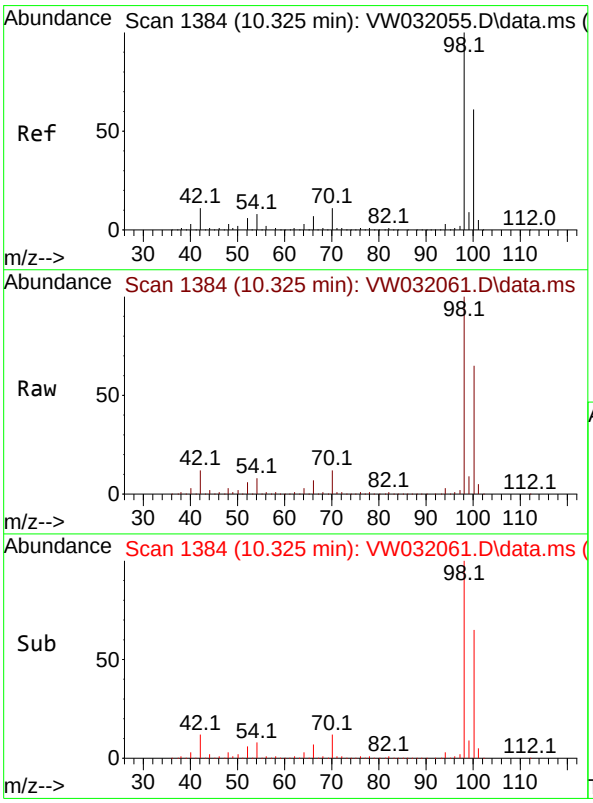
#49
1,4-Dioxane
Concen: 397.829 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 88 Resp: 9712

Ion	Ratio	Lower	Upper
88	100		
43	24.9	20.6	30.8
58	78.3	60.4	90.6

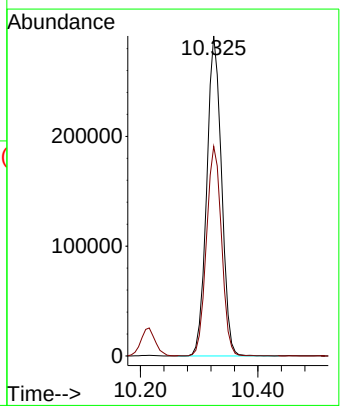


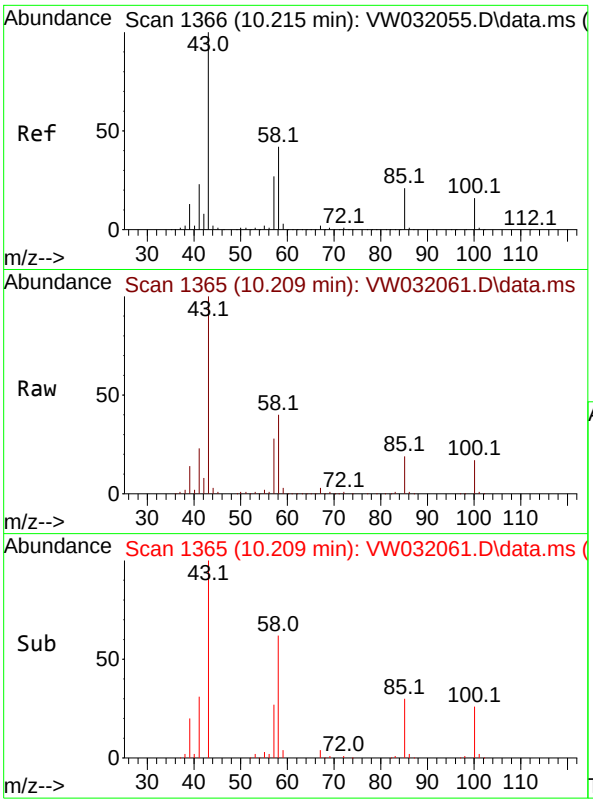


#50
Toluene-d8
Concen: 49.765 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 98 Resp: 508647

Ion	Ratio	Lower	Upper
98	100		
100	66.6	51.1	76.7



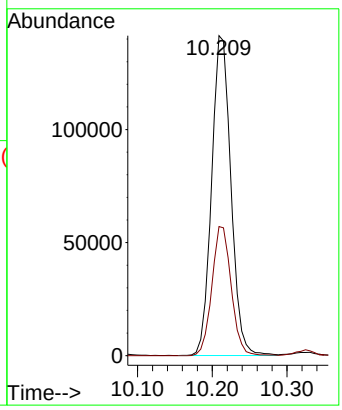


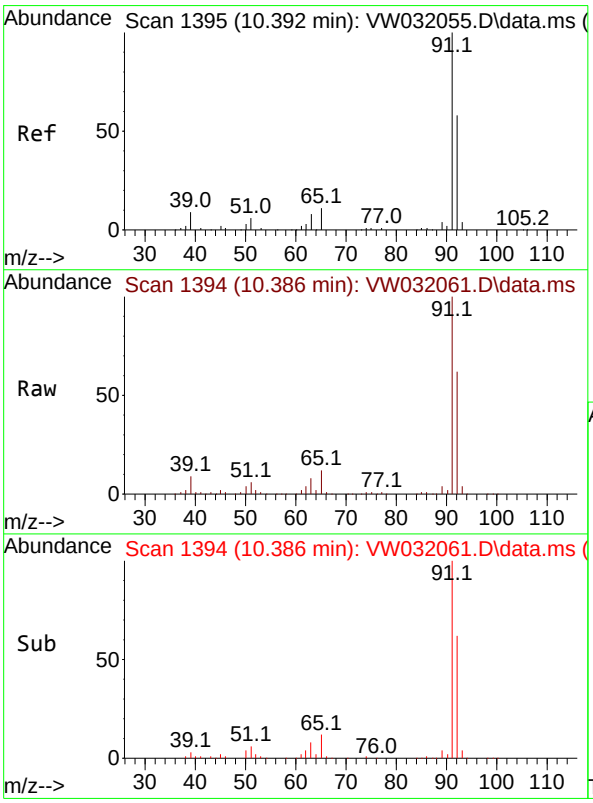
#51
4-Methyl-2-Pentanone
Concen: 106.423 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 43 Resp: 253567

Ion	Ratio	Lower	Upper
43	100		
58	40.5	33.1	49.7

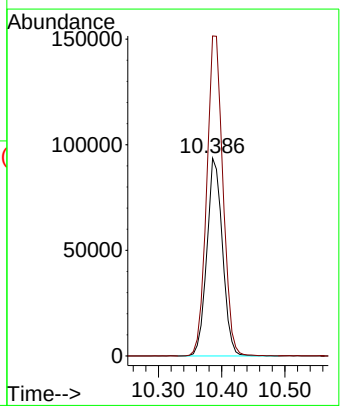


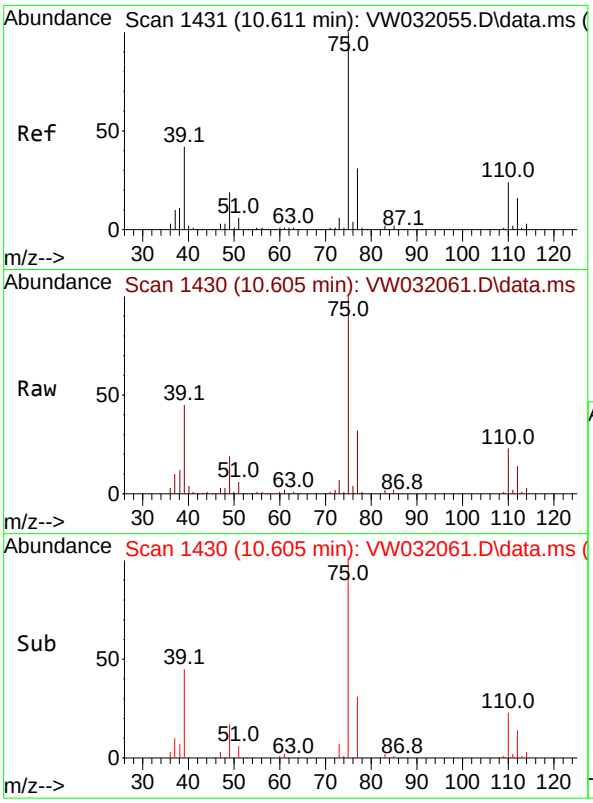


#52
Toluene
Concen: 21.039 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 92 Resp: 160474

Ion	Ratio	Lower	Upper
92	100		
91	168.1	136.3	204.5



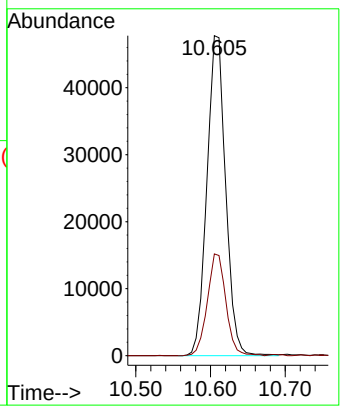


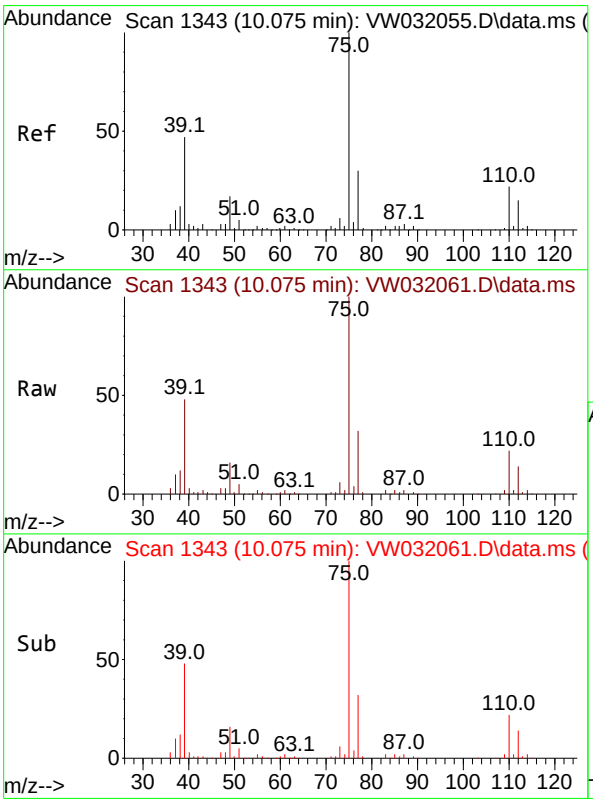
#53
t-1,3-Dichloropropene
Concen: 20.387 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 75 Resp: 83098

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.6

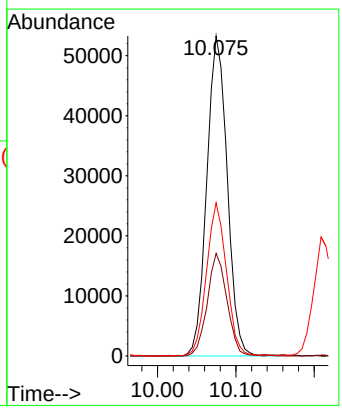


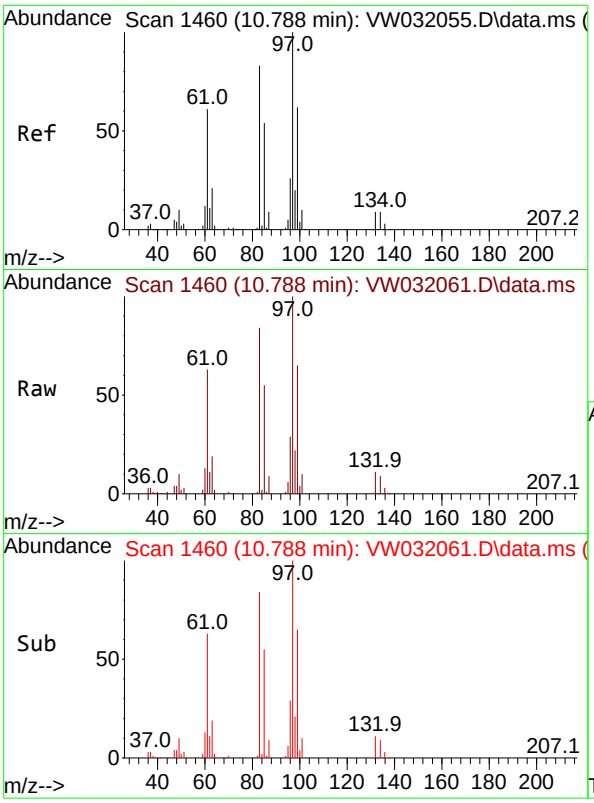


#54
cis-1,3-Dichloropropene
Concen: 20.866 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 96489

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	47.7	37.8	56.8



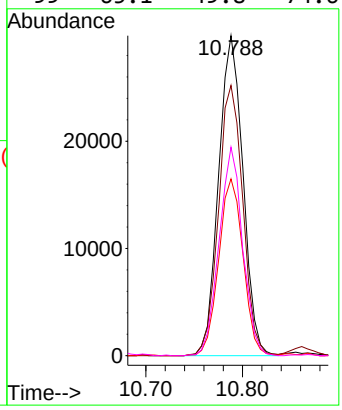


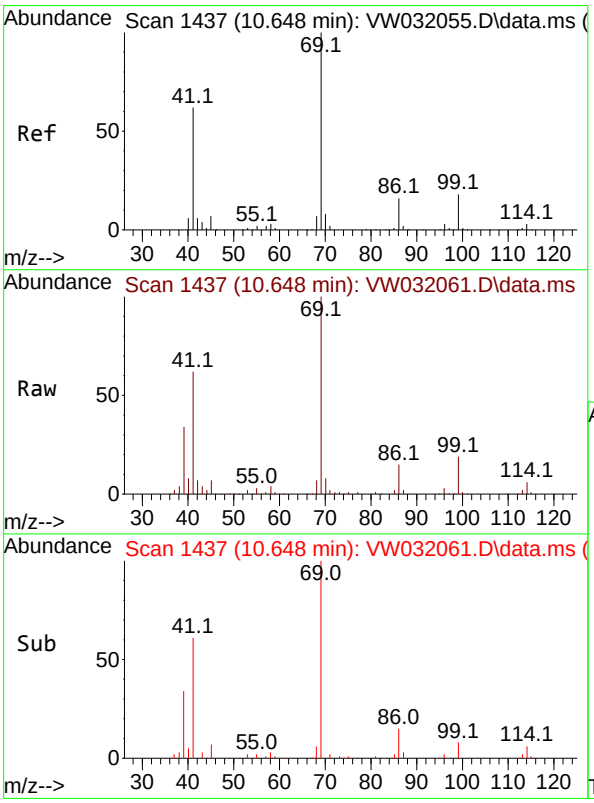
#55
1,1,2-Trichloroethane
Concen: 20.771 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 97 Resp: 52115

Ion	Ratio	Lower	Upper
97	100		
83	84.4	66.4	99.6
85	55.2	43.1	64.7
99	65.1	49.8	74.6

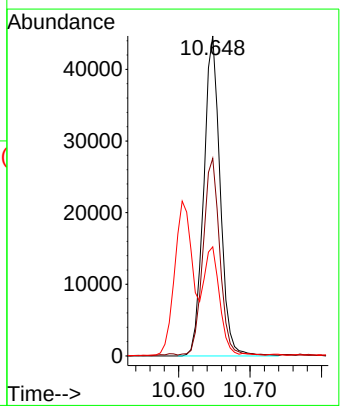


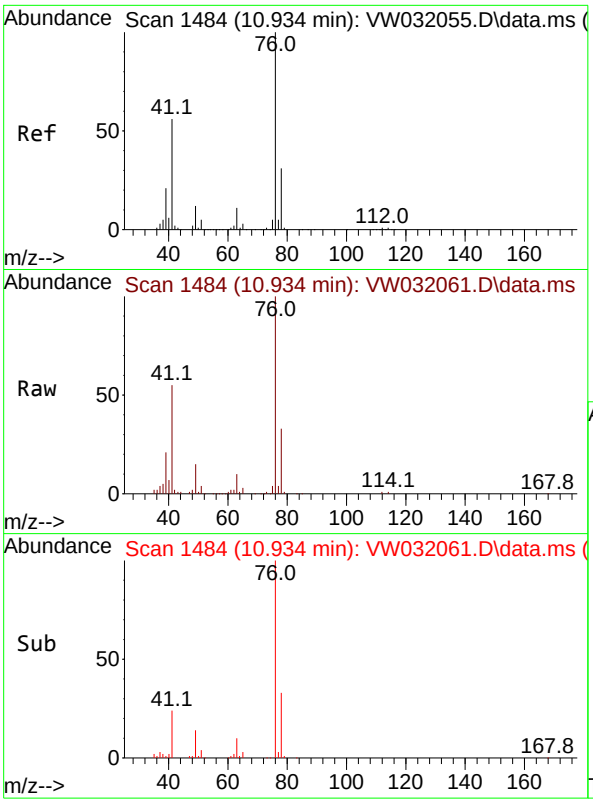


#56
Ethyl methacrylate
Concen: 21.293 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 69 Resp: 71491

Ion	Ratio	Lower	Upper
69	100		
41	62.3	51.2	76.8
39	31.8	25.4	38.0



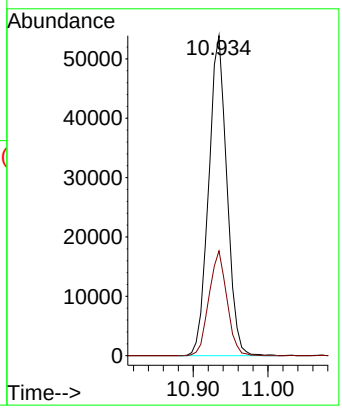


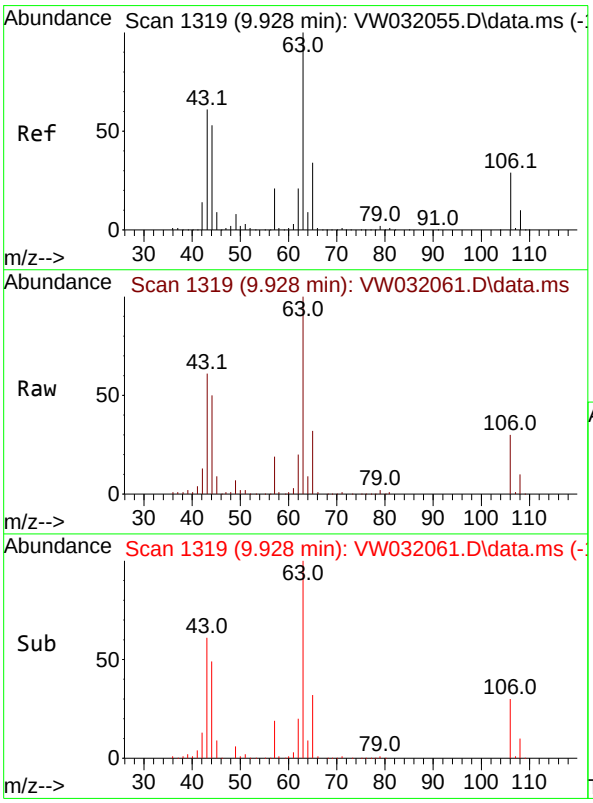
#57
1,3-Dichloropropane
Concen: 20.874 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 76 Resp: 91289

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

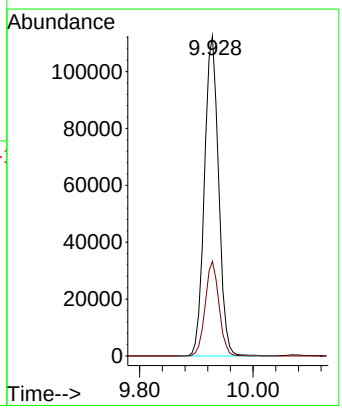


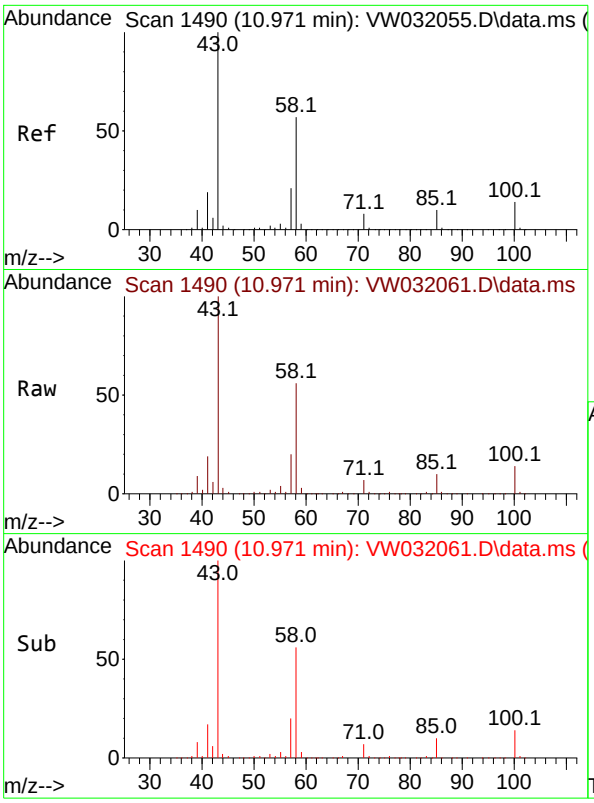


#58
2-Chloroethyl Vinyl ether
Concen: 105.002 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 195002

Ion	Ratio	Lower	Upper
63	100		
106	28.7	23.5	35.3



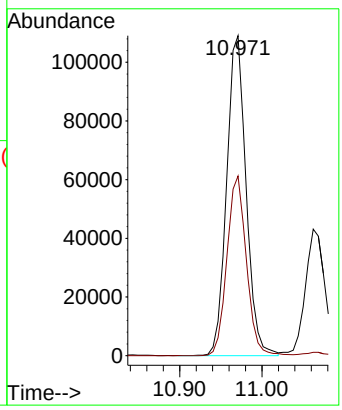


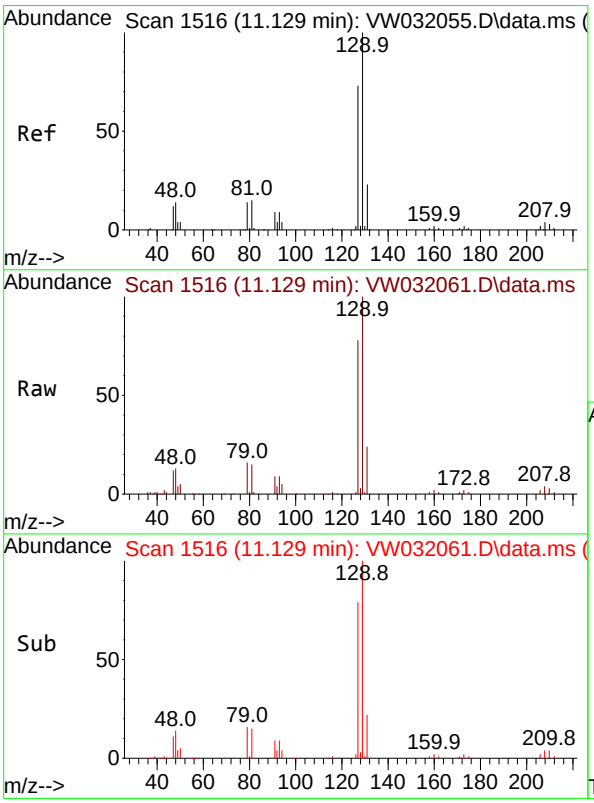
#59
2-Hexanone
Concen: 108.432 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 43 Resp: 178926

Ion	Ratio	Lower	Upper
43	100		
58	56.2	28.3	85.0

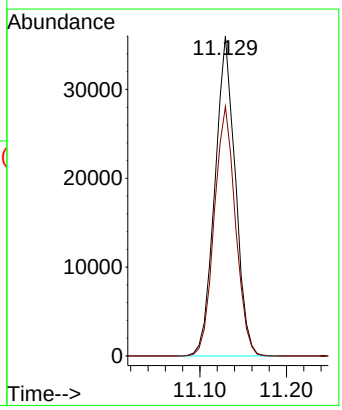


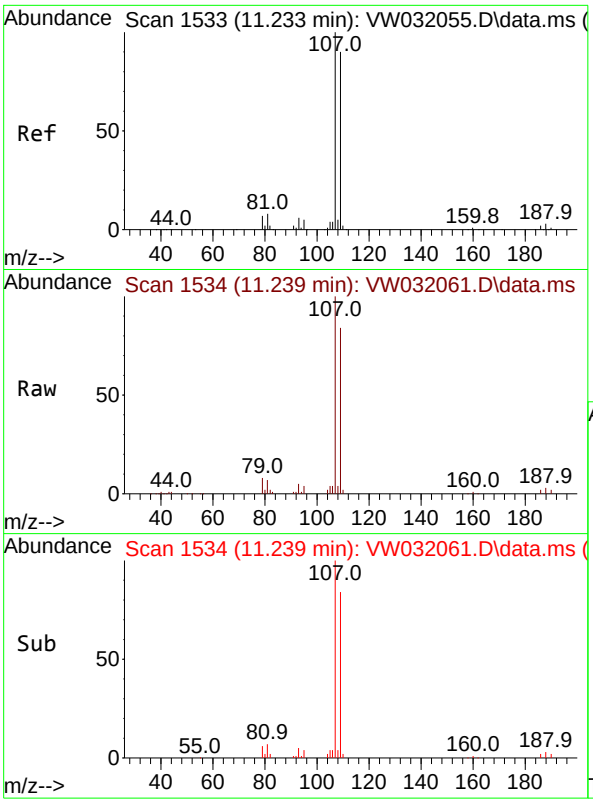


#60
Dibromochloromethane
Concen: 20.578 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:129 Resp: 58977

Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.0	116.9



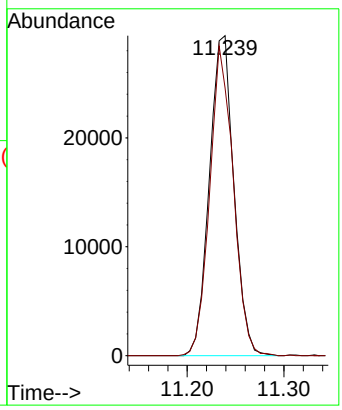


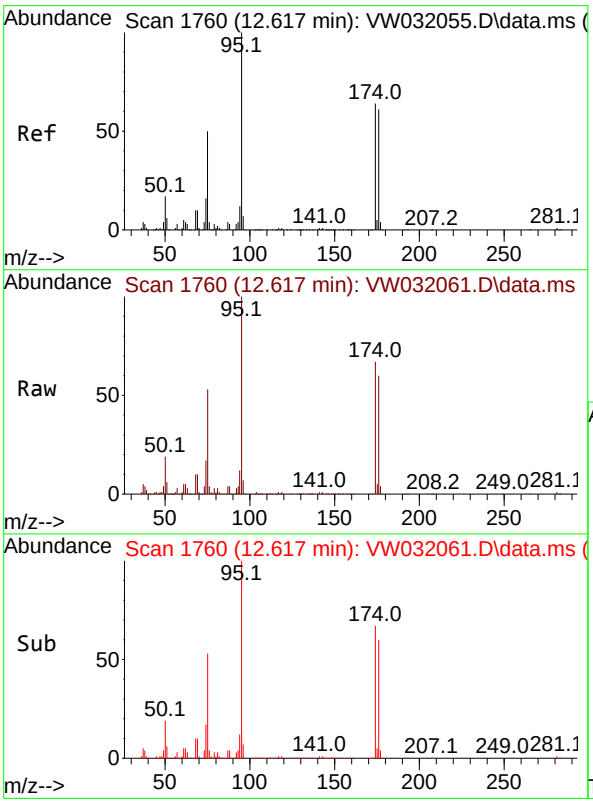
#61
1,2-Dibromoethane
Concen: 21.183 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:107 Resp: 51647

Ion	Ratio	Lower	Upper
107	100		
109	93.1	74.2	111.4

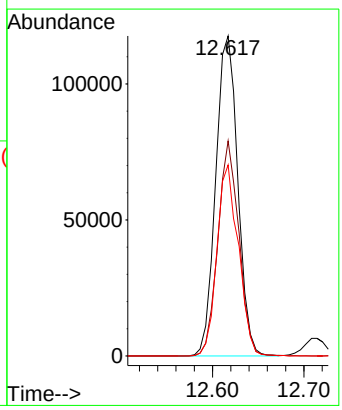


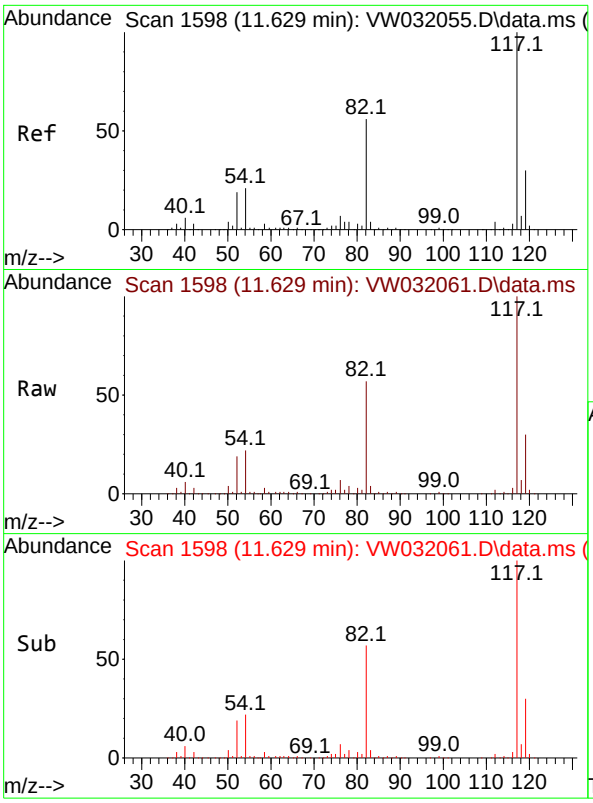


#62
4-Bromofluorobenzene
Concen: 52.373 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 95 Resp: 197267

Ion	Ratio	Lower	Upper
95	100		
174	63.9	0.0	129.0
176	58.2	0.0	124.6



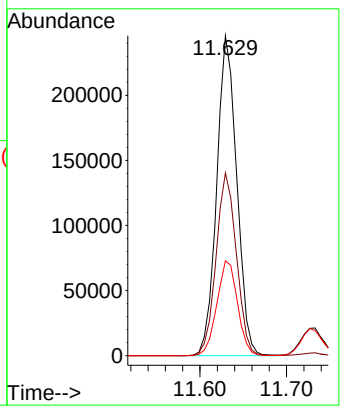


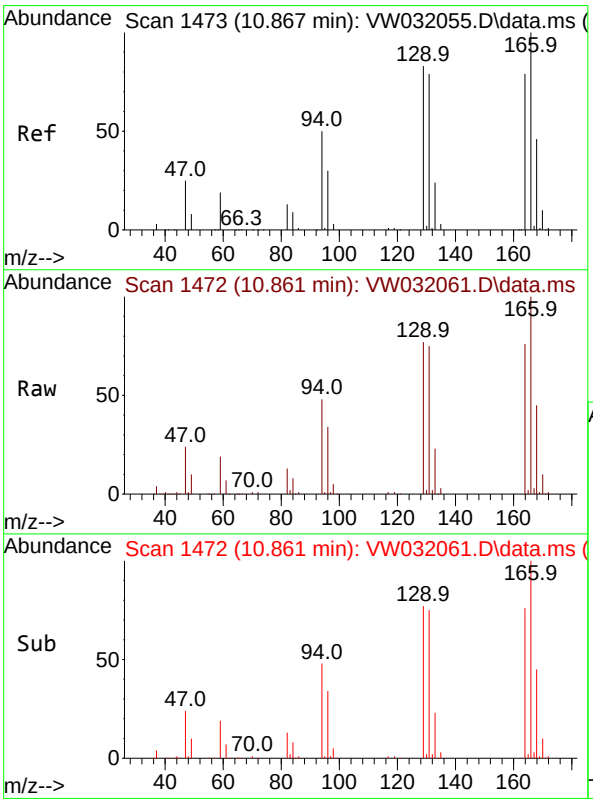
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:117 Resp: 394820

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.0	67.4
119	29.7	24.2	36.4

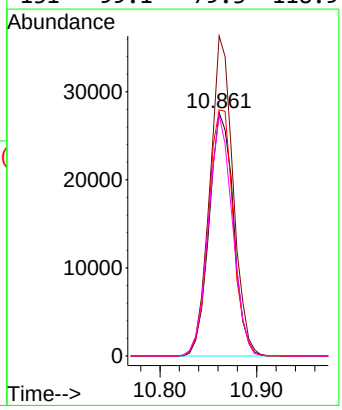


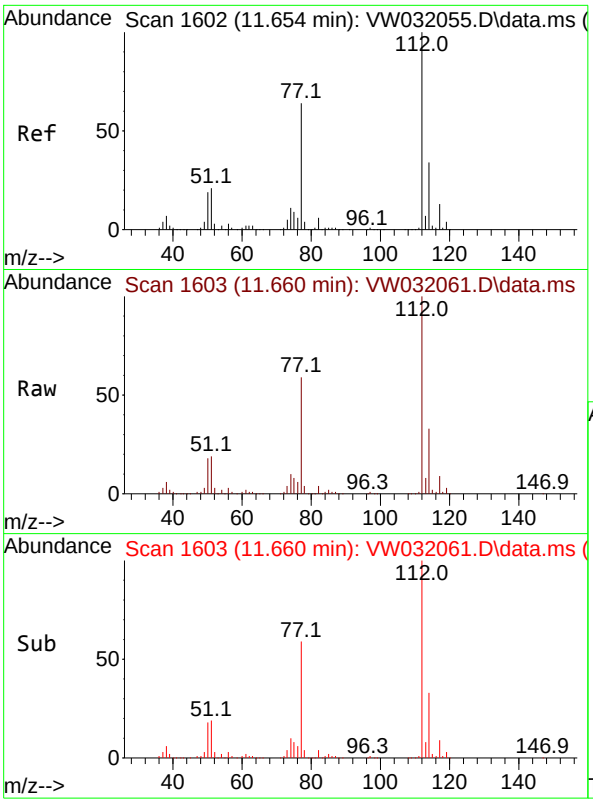


#64
Tetrachloroethene
Concen: 21.074 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:164 Resp: 48059

Ion	Ratio	Lower	Upper
164	100		
166	131.6	100.9	151.3
129	101.2	83.6	125.4
131	99.1	79.3	118.9



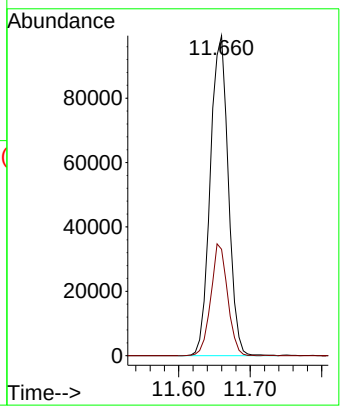


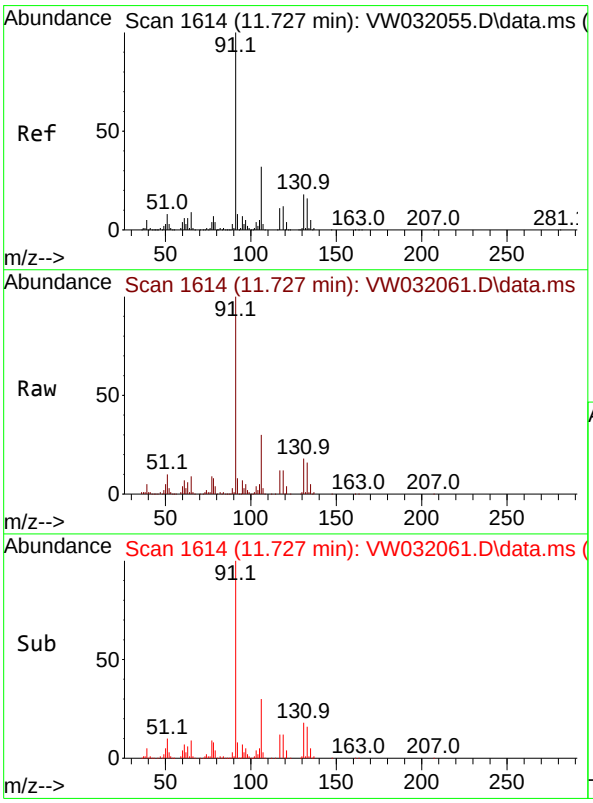
#65
Chlorobenzene
Concen: 20.189 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:112 Resp: 173499

Ion	Ratio	Lower	Upper
112	100		
114	33.2	26.9	40.3

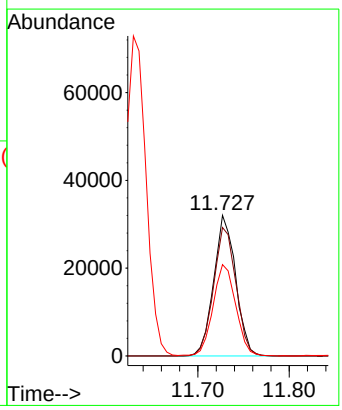


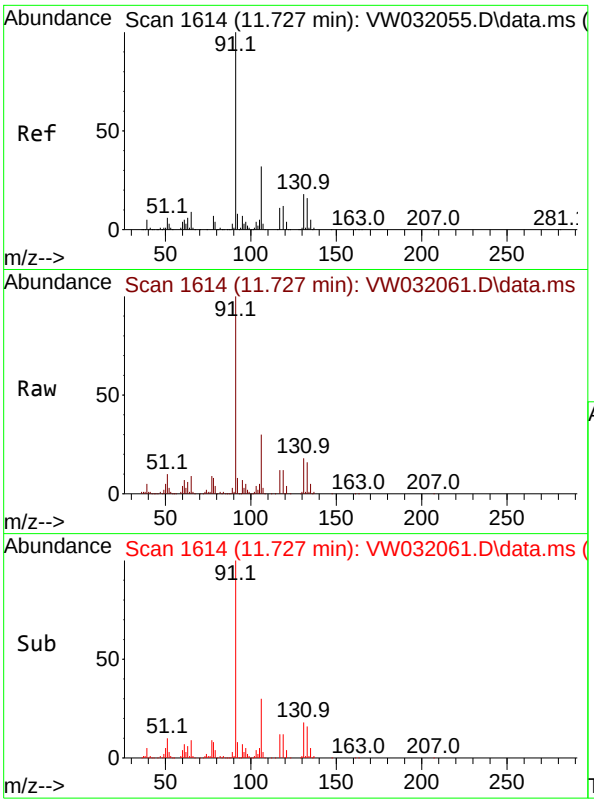


#66
1,1,1,2-Tetrachloroethane
Concen: 19.910 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:131 Resp: 53383

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	67.5	34.5	103.5



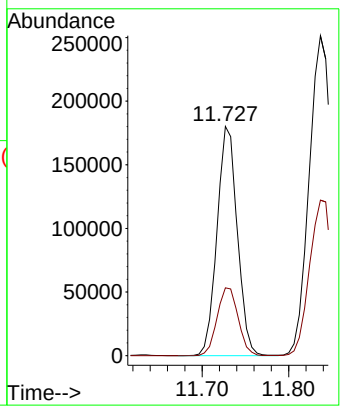


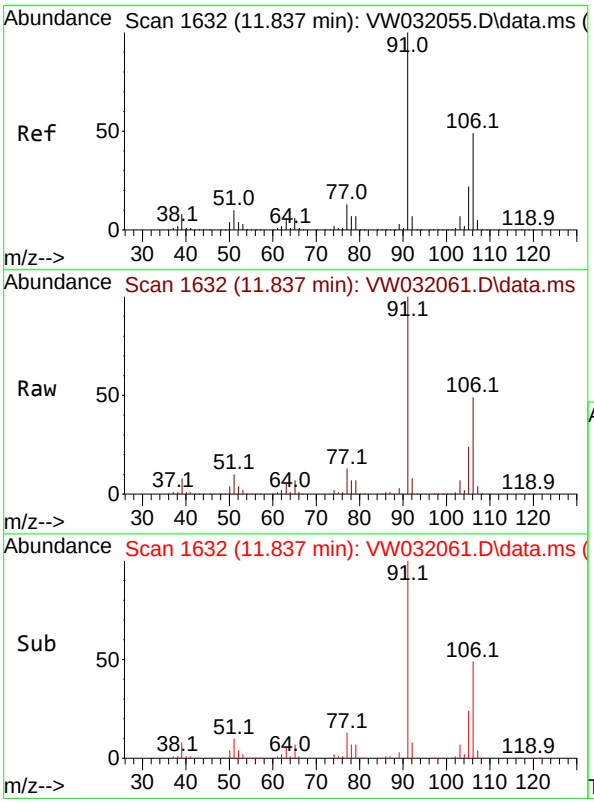
#67
Ethyl Benzene
Concen: 20.129 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 91 Resp: 293010

Ion	Ratio	Lower	Upper
91	100		
106	29.6	25.4	38.0

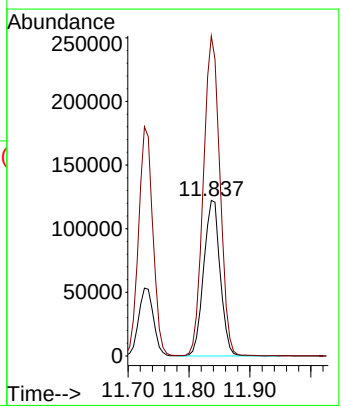


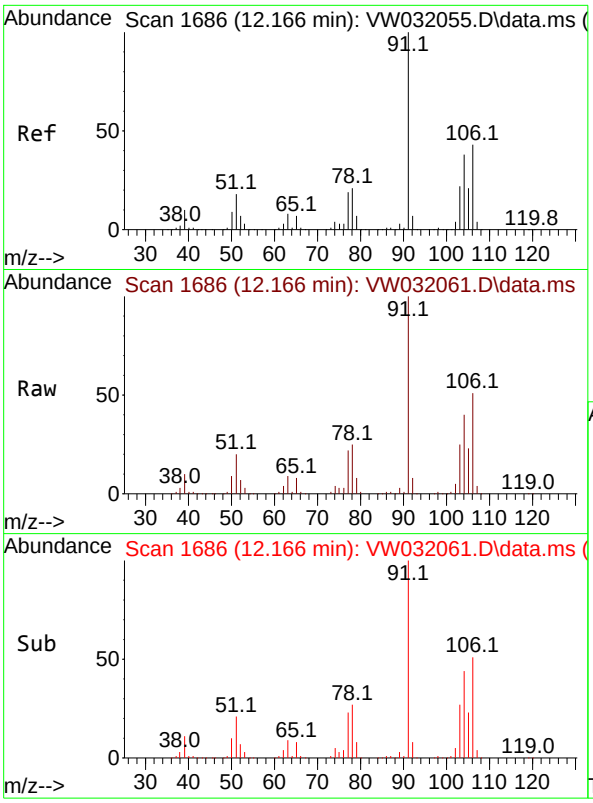


#68
m/p-Xylenes
Concen: 40.901 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:106 Resp: 229740

Ion	Ratio	Lower	Upper
106	100		
91	206.5	162.2	243.2



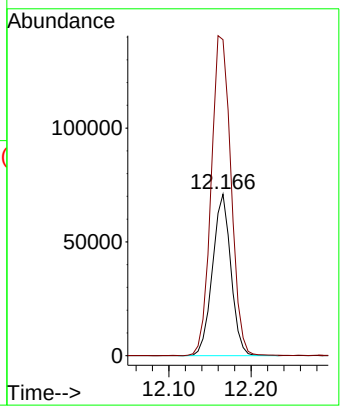


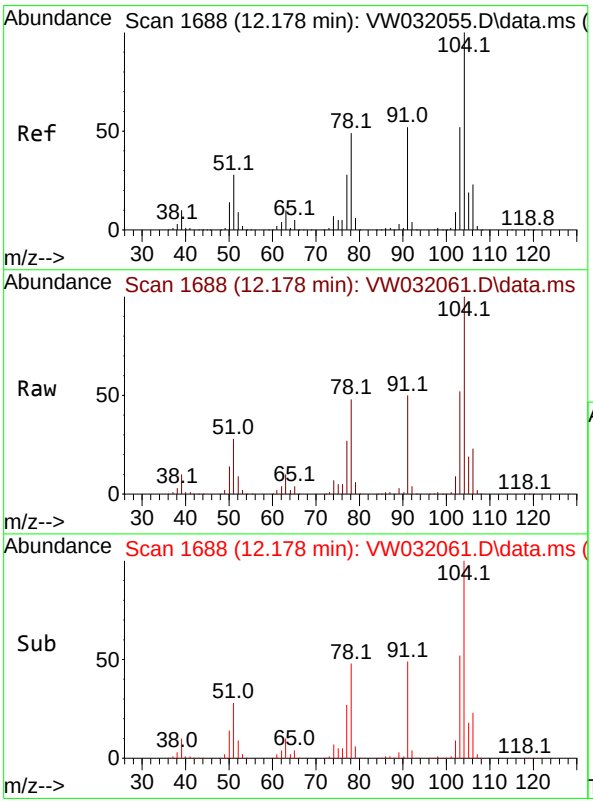
#69
o-Xylene
Concen: 21.194 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:106 Resp: 110031

Ion	Ratio	Lower	Upper
106	100		
91	214.2	110.8	332.3

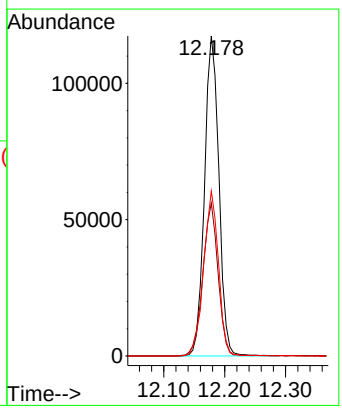


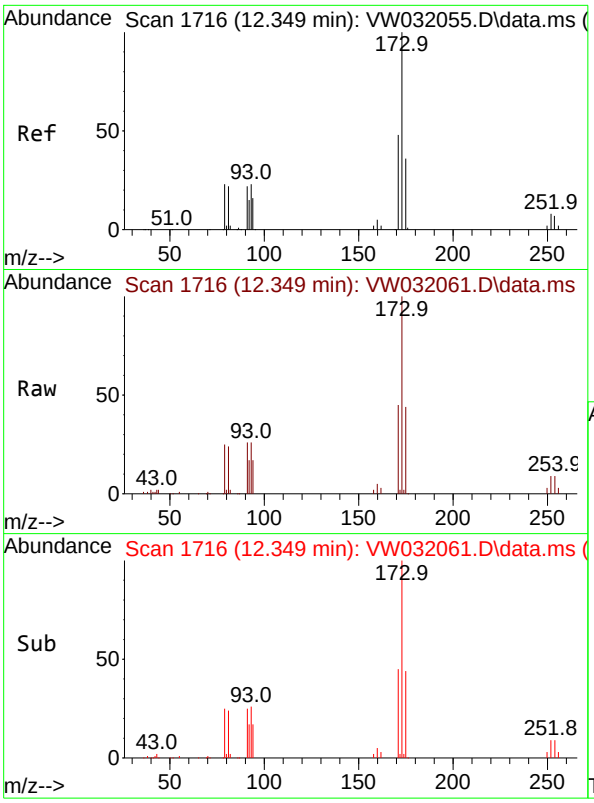


#70
Styrene
Concen: 20.893 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:104 Resp: 192666

Ion	Ratio	Lower	Upper
104	100		
78	50.5	41.2	61.8
103	53.3	43.8	65.8



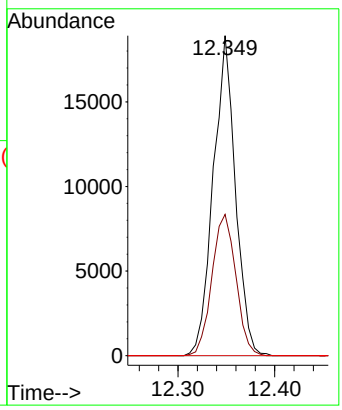


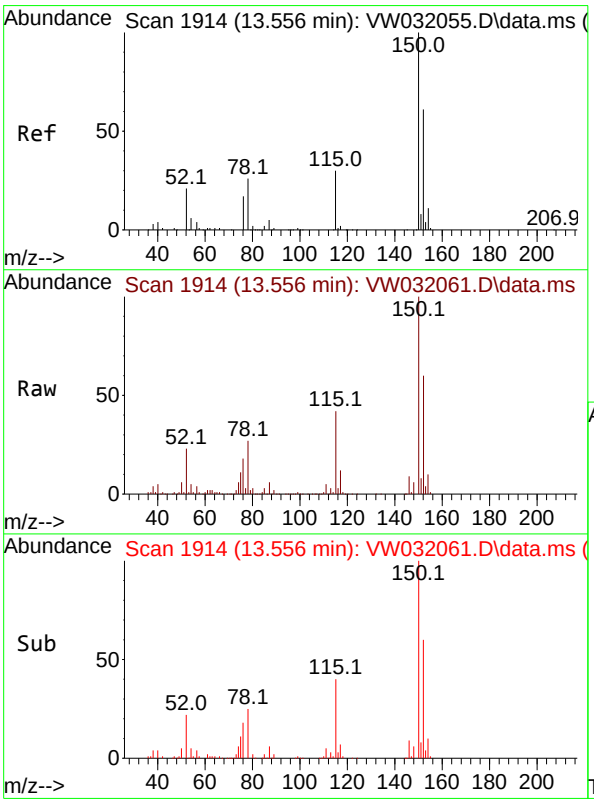
#71
Bromoform
Concen: 19.630 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:173 Resp: 30108

Ion	Ratio	Lower	Upper
173	100		
175	47.7	22.9	68.7
254	0.0	0.0	0.0

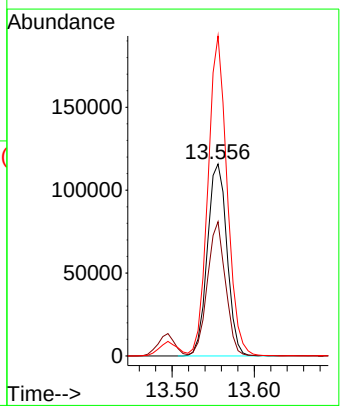


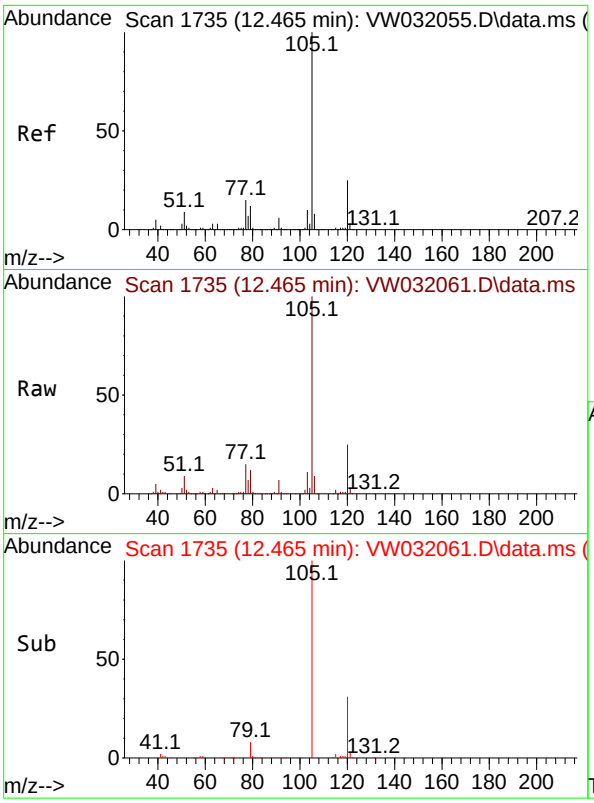


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:152 Resp: 191594

Ion	Ratio	Lower	Upper
152	100		
115	65.1	32.6	97.8
150	162.6	0.0	359.4



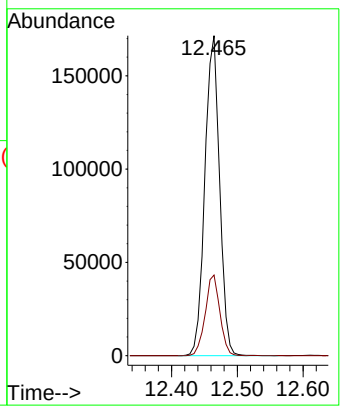


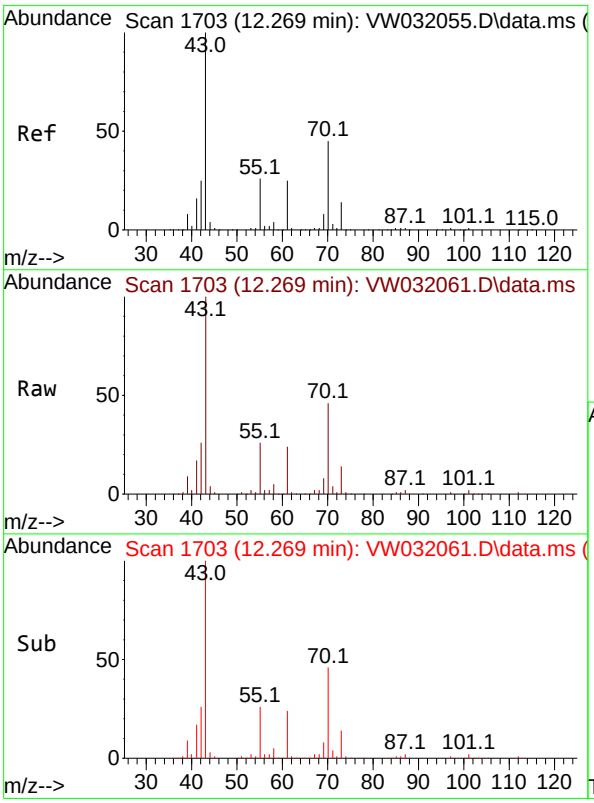
#73
Isopropylbenzene
Concen: 19.925 ug/l
RT: 12.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:105 Resp: 266790

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4

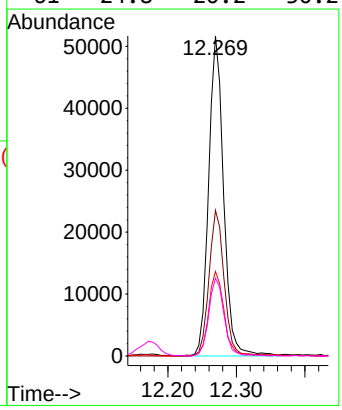


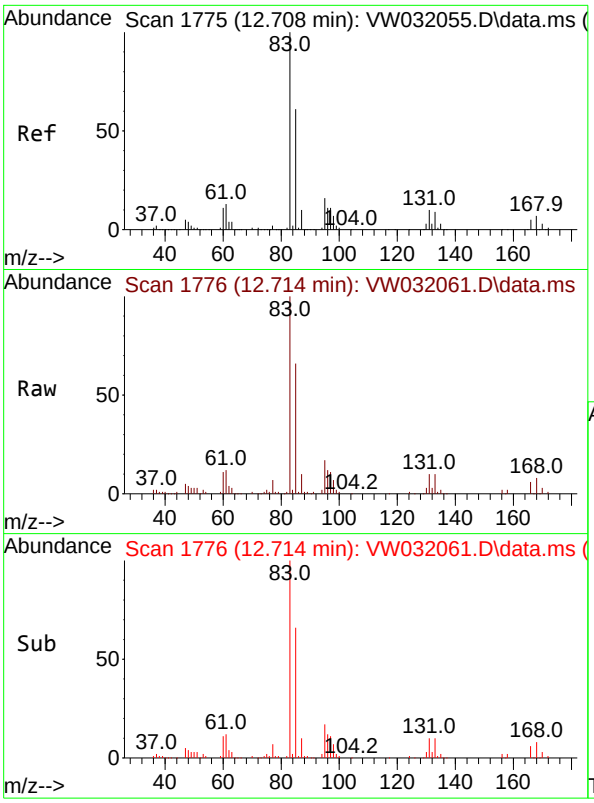


#74
N-amyl acetate
Concen: 20.526 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 78852

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.0	55.4
55	27.3	21.1	31.7
61	24.8	20.2	30.2



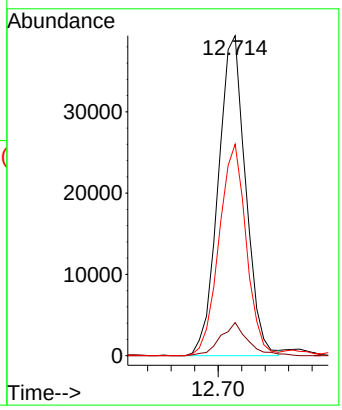


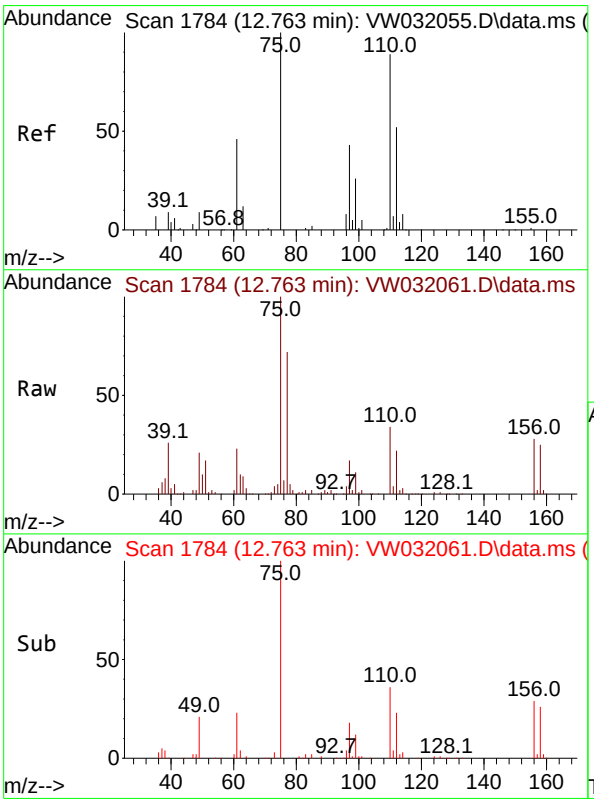
#75
1,1,2,2-Tetrachloroethane
Concen: 20.118 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 83 Resp: 63958

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	65.4	32.2	96.6

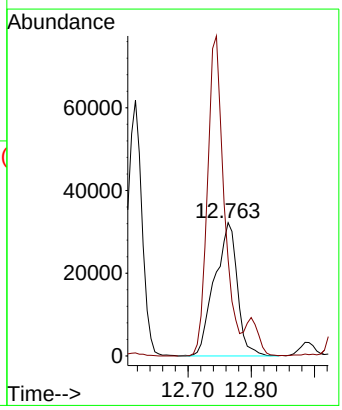


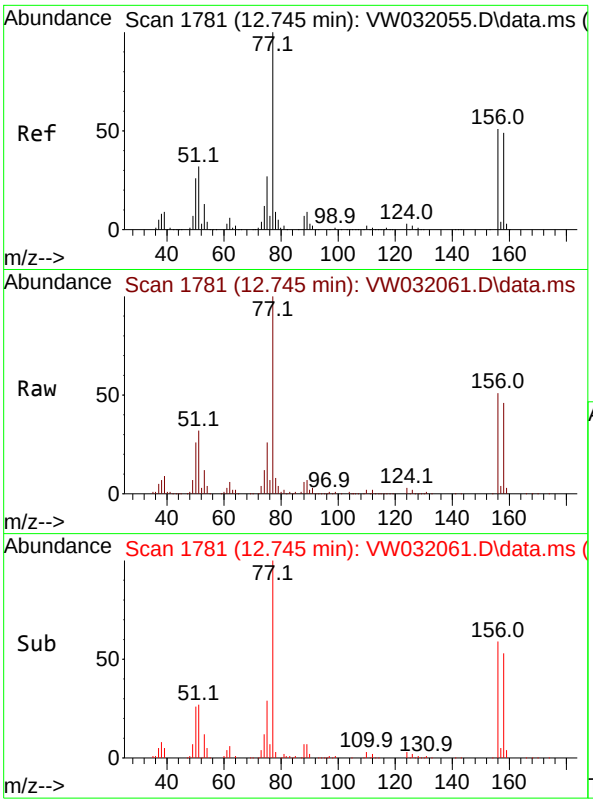


#76
1,2,3-Trichloropropane
Concen: 30.894 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 80336

Ion	Ratio	Lower	Upper
75	100		
77	175.6	123.5	370.5



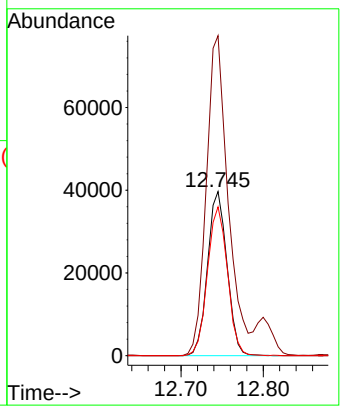


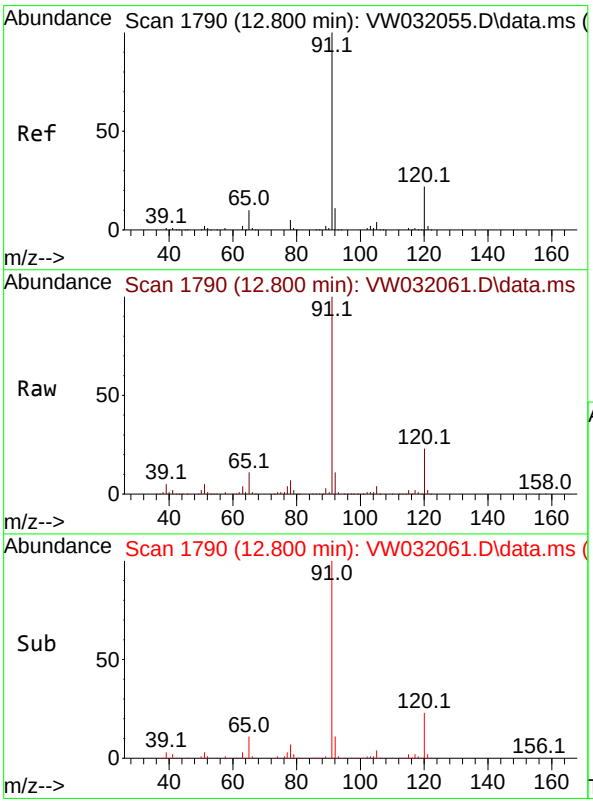
#77
Bromobenzene
Concen: 20.423 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:156 Resp: 65314

Ion	Ratio	Lower	Upper
156	100		
77	216.0	108.7	326.3
158	93.1	48.3	144.9

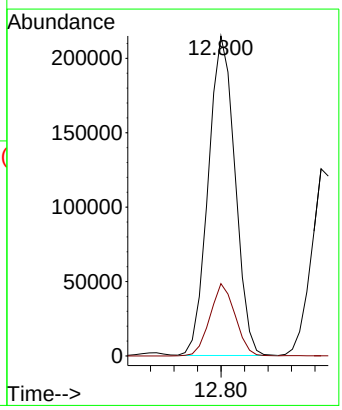


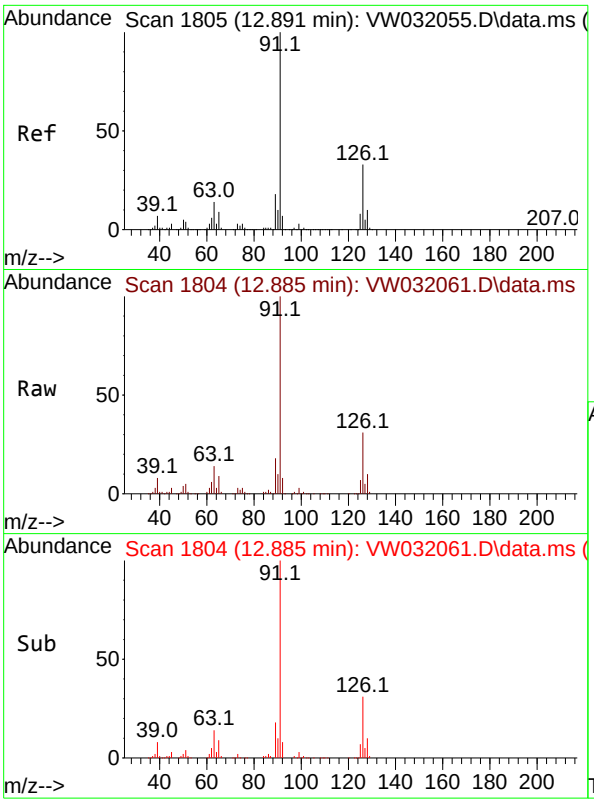


#78
n-propylbenzene
Concen: 20.616 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 339857

Ion	Ratio	Lower	Upper
91	100		
120	21.3	11.1	33.3



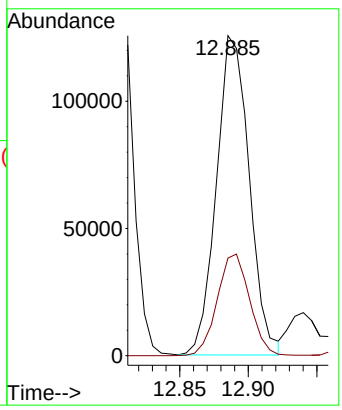


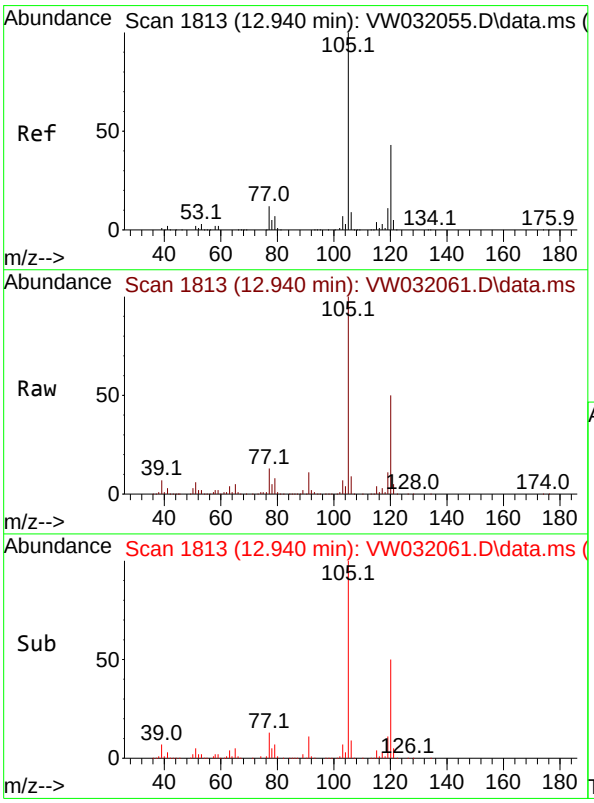
#79
2-Chlorotoluene
Concen: 20.570 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 91 Resp: 209277

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.9	47.7

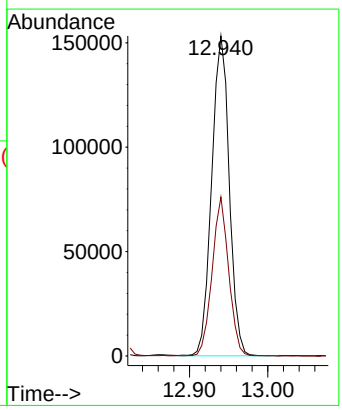


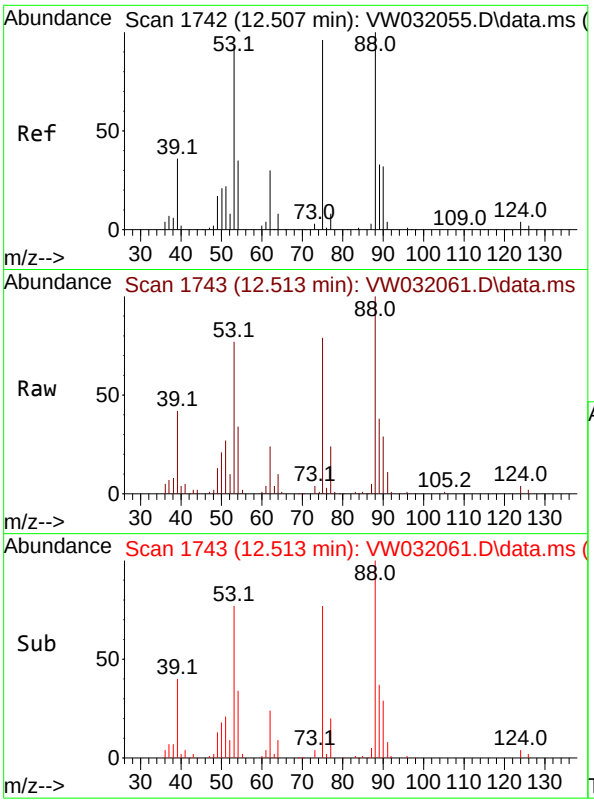


#80
1,3,5-Trimethylbenzene
Concen: 20.975 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 238429

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.4	70.0



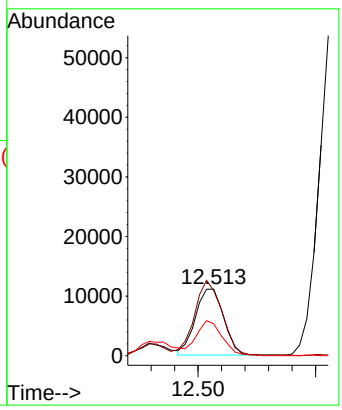


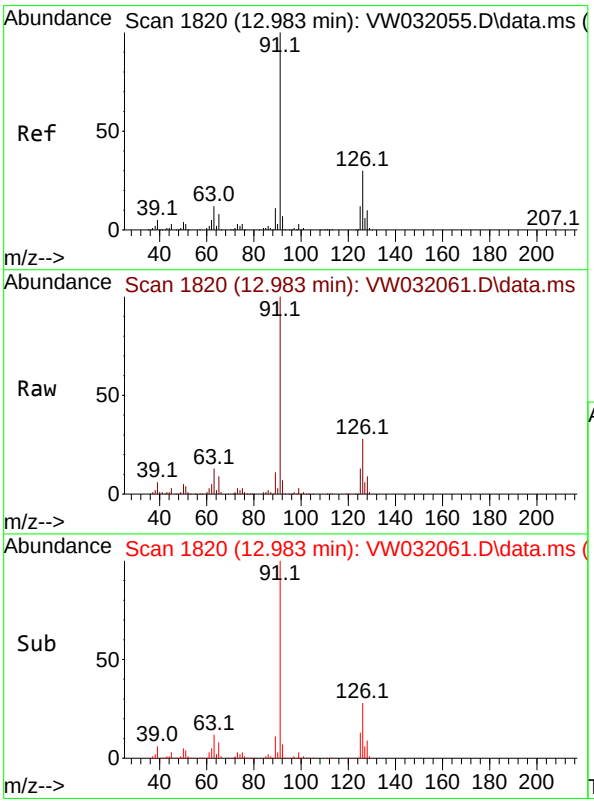
#81
trans-1,4-Dichloro-2-butene
Concen: 18.484 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 75 Resp: 18566

Ion	Ratio	Lower	Upper
75	100		
53	113.2	81.0	121.6
89	47.5	37.3	55.9

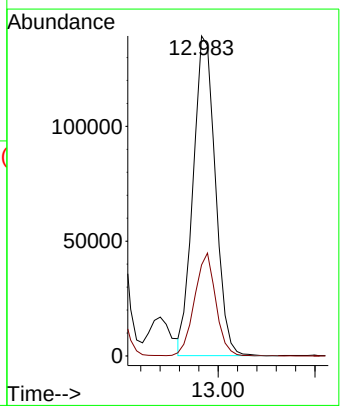


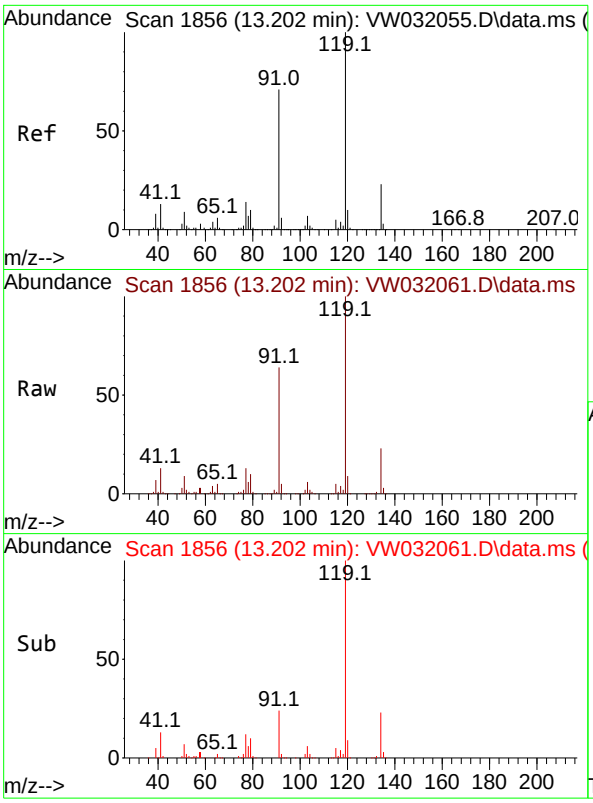


#82
4-Chlorotoluene
Concen: 20.547 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 222101

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.5	46.5



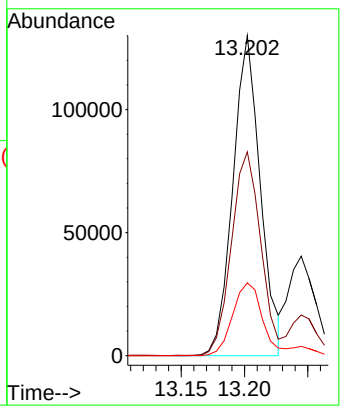


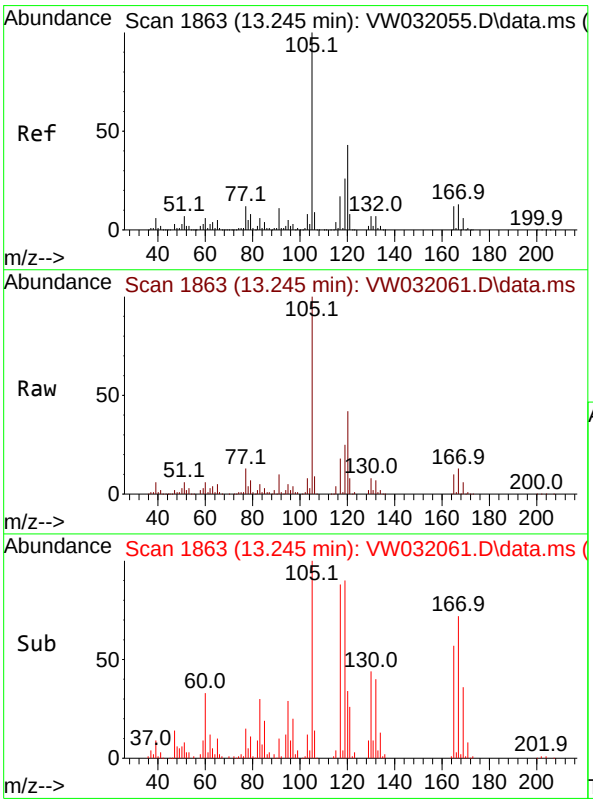
#83
tert-Butylbenzene
Concen: 20.817 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:119 Resp: 196393

Ion	Ratio	Lower	Upper
119	100		
91	67.6	35.3	105.9
134	24.6	12.1	36.3

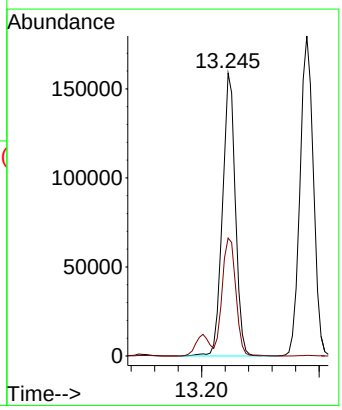


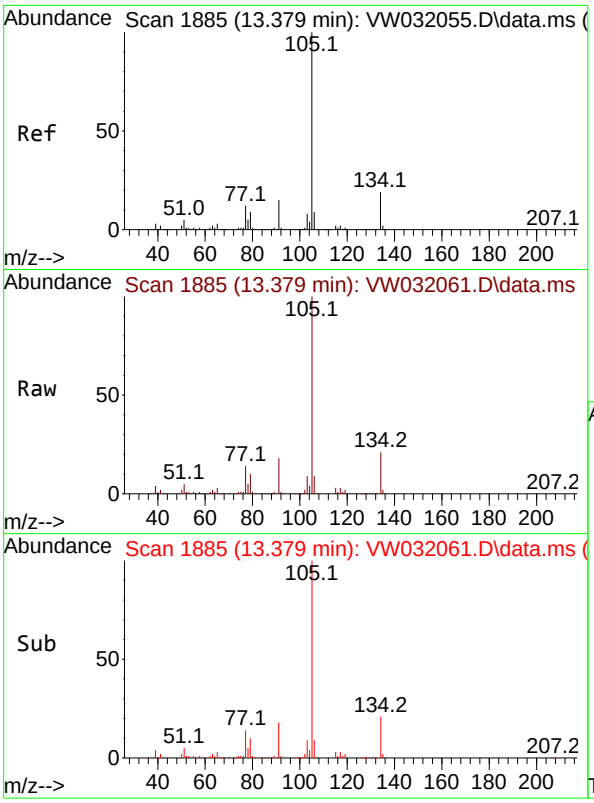


#84
1,2,4-Trimethylbenzene
Concen: 20.878 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 241596

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.6	64.8



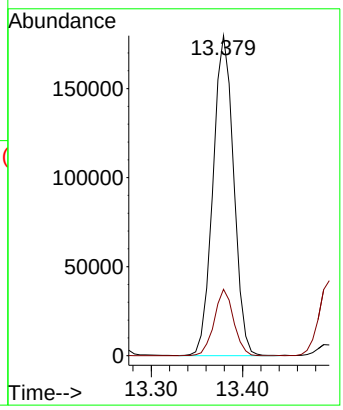


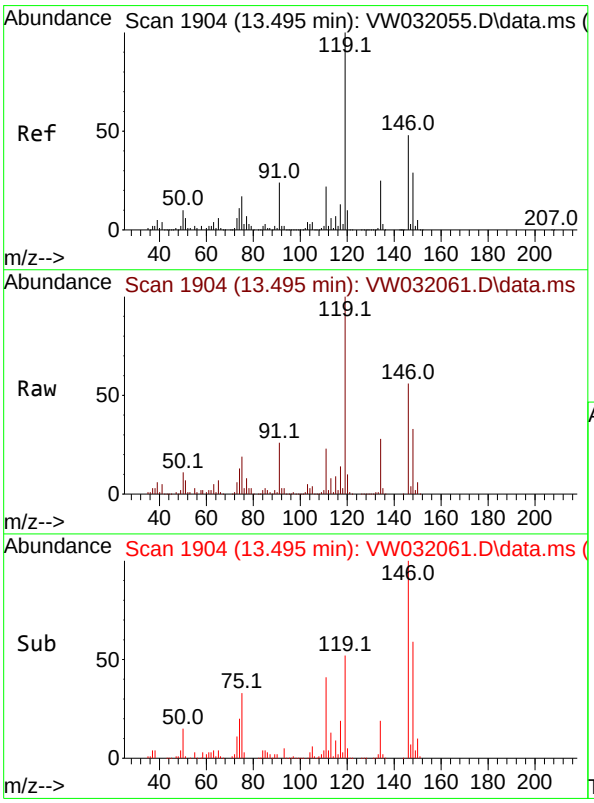
#85
sec-Butylbenzene
Concen: 19.818 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:105 Resp: 282666

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.9	29.7

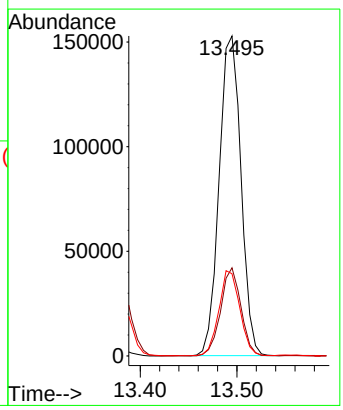


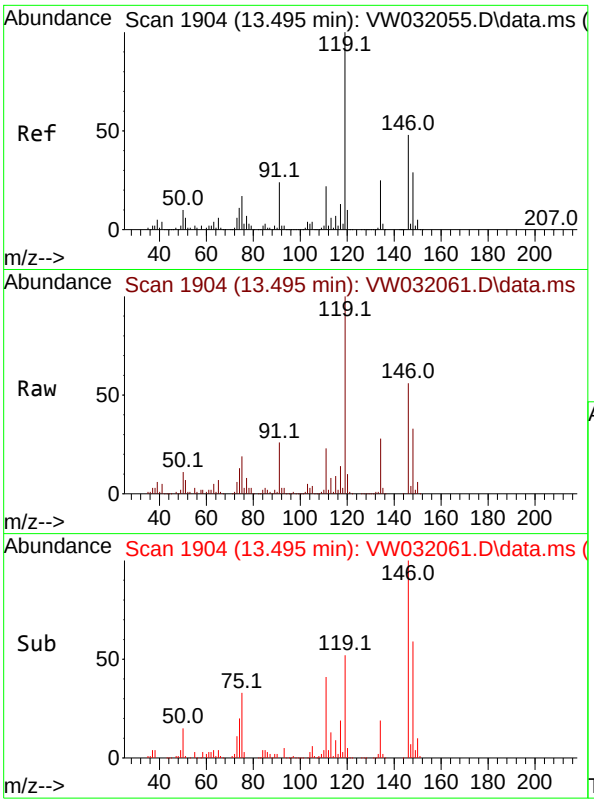


#86
p-Isopropyltoluene
Concen: 20.078 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:119 Resp: 238749

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.4	37.0
91	25.5	12.1	36.3



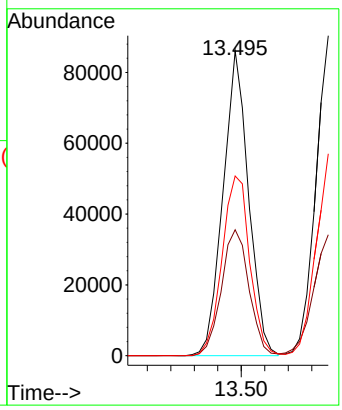


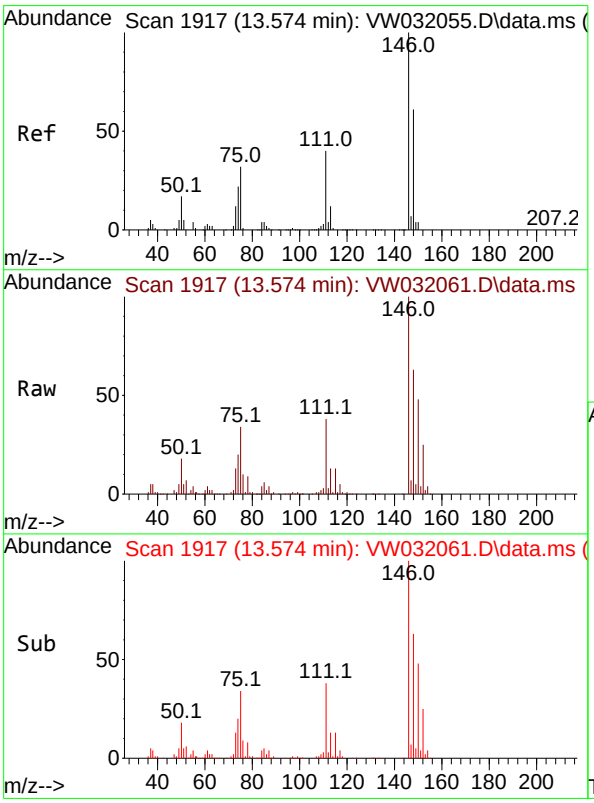
#87
1,3-Dichlorobenzene
Concen: 20.364 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:146 Resp: 129585

Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.2	63.6
148	64.2	30.3	90.8

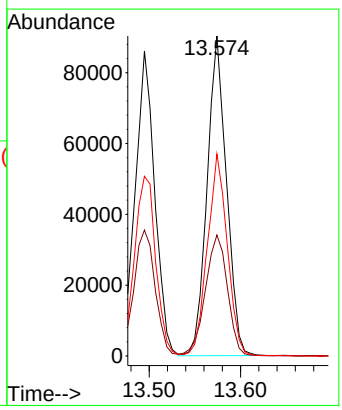


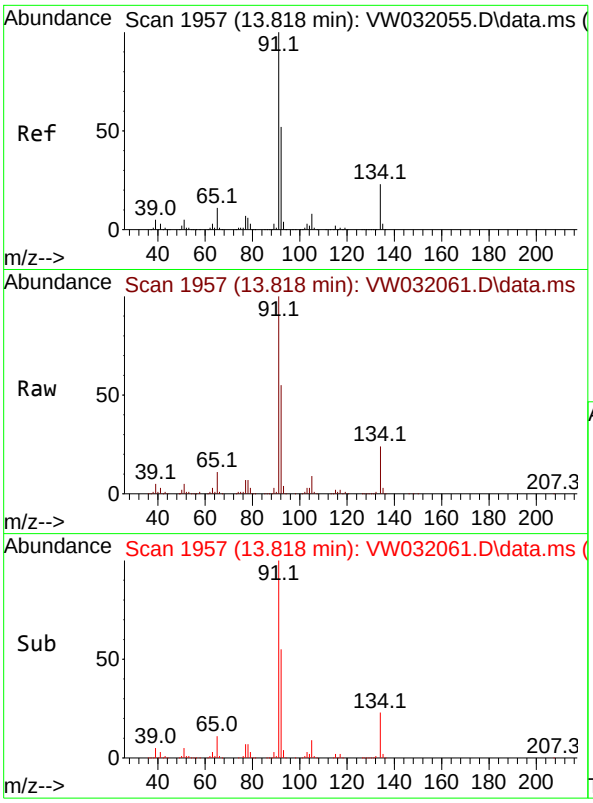


#88
1,4-Dichlorobenzene
Concen: 20.677 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 132968

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	64.6
148	64.6	32.0	96.2



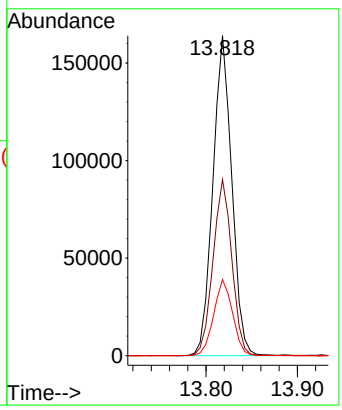


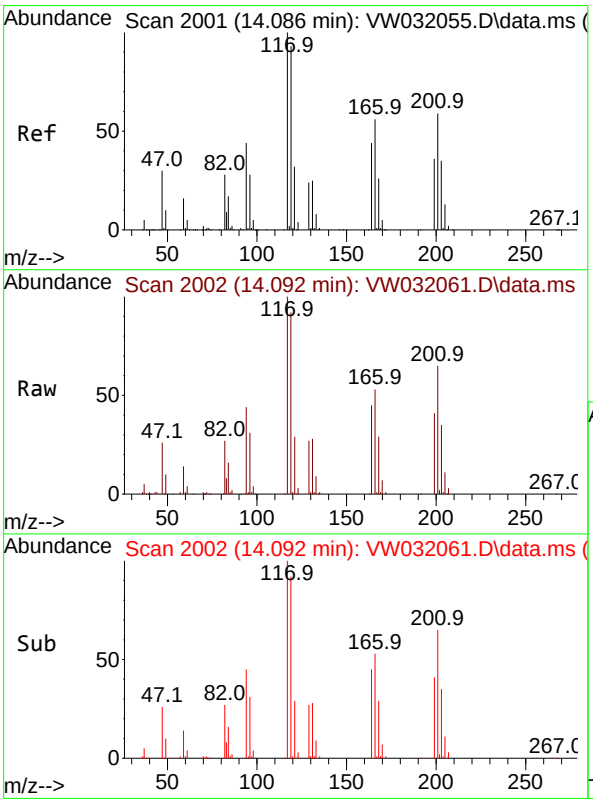
#89
n-Butylbenzene
Concen: 20.377 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion: 91 Resp: 235392

Ion	Ratio	Lower	Upper
91	100		
92	54.8	26.7	80.1
134	23.8	12.0	36.1

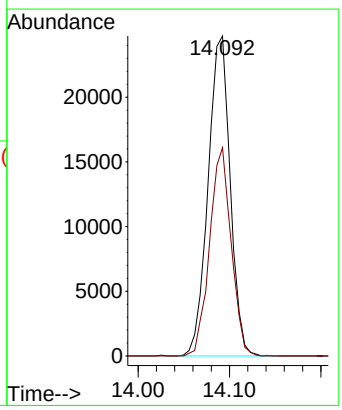


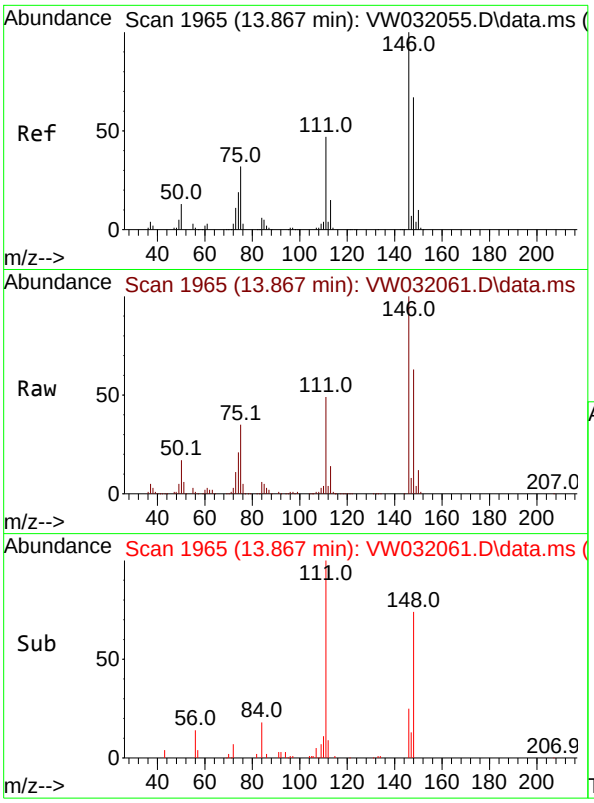


#90
Hexachloroethane
Concen: 19.094 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 41522

Ion	Ratio	Lower	Upper
117	100		
201	63.3	30.9	92.5



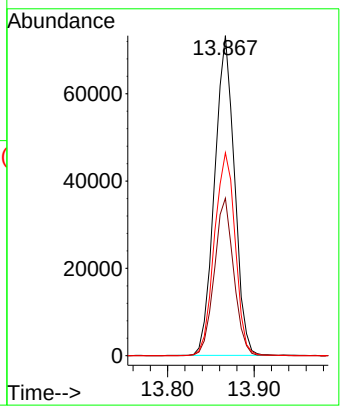


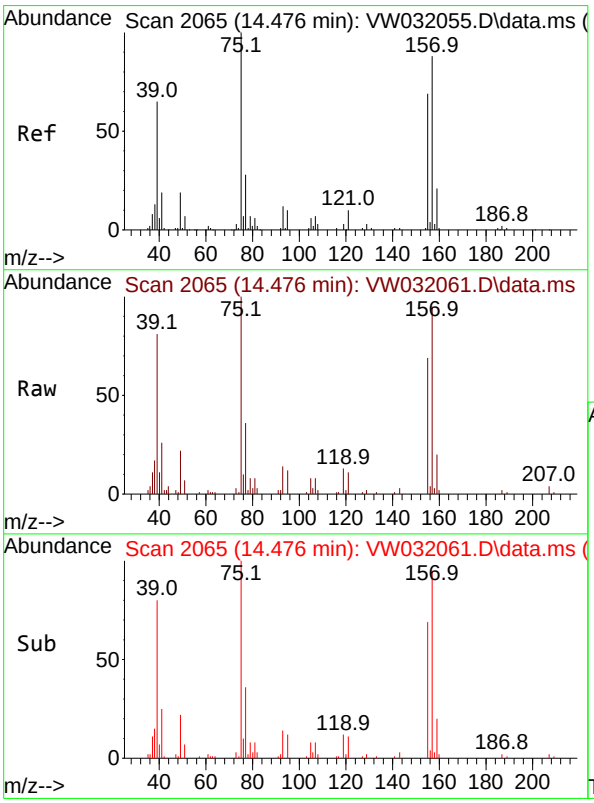
#91
1,2-Dichlorobenzene
Concen: 20.259 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:146 Resp: 116780

Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.1	69.3
148	66.3	32.9	98.6

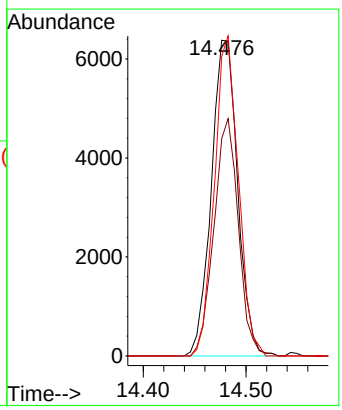


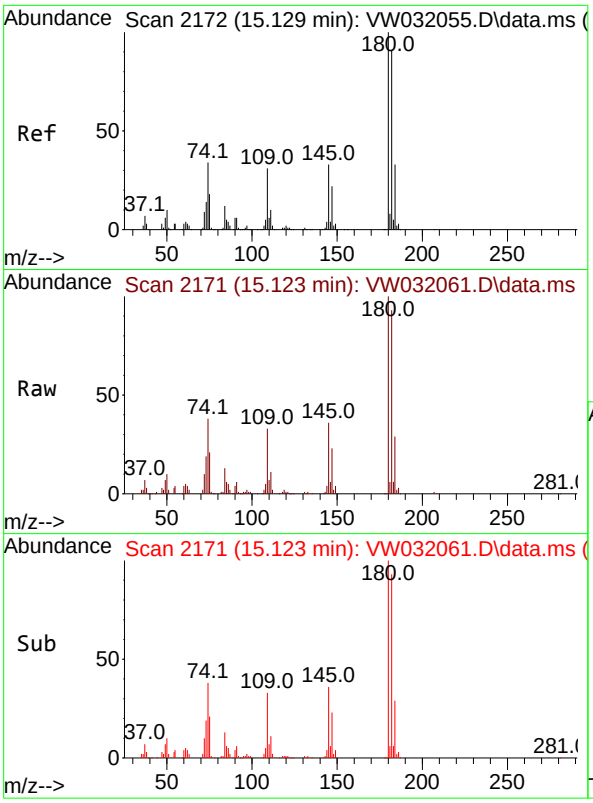


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.070 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 11343

Ion	Ratio	Lower	Upper
75	100		
155	69.8	35.2	105.6
157	92.0	47.5	142.6



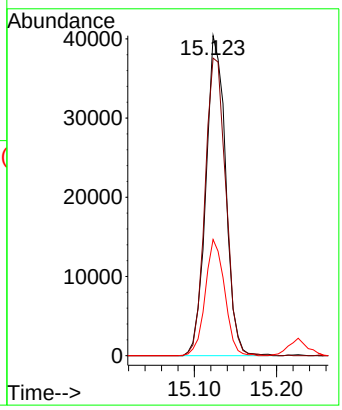


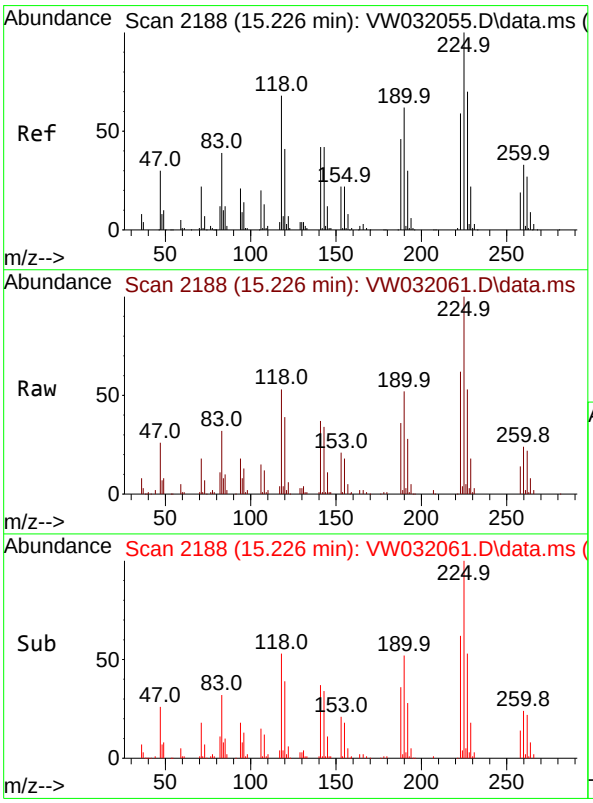
#93
1,2,4-Trichlorobenzene
Concen: 19.544 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:180 Resp: 67394

Ion	Ratio	Lower	Upper
180	100		
182	97.6	49.0	147.0
145	35.7	17.3	51.9

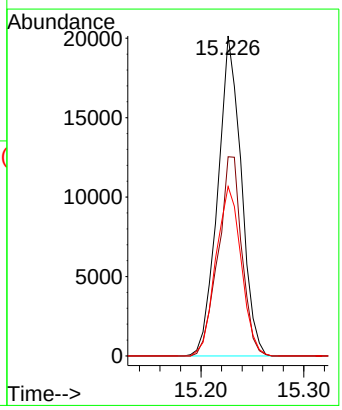


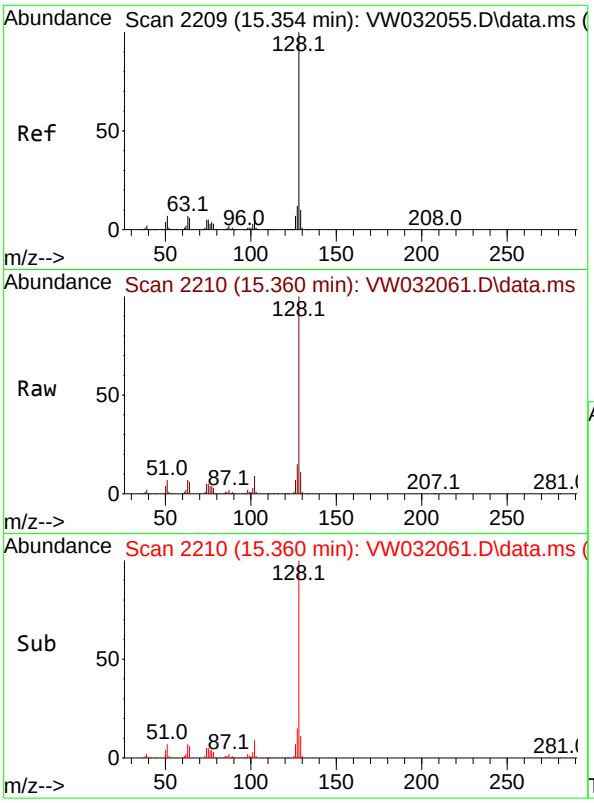


#94
Hexachlorobutadiene
Concen: 20.753 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:225 Resp: 31990

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.8	95.3
227	57.0	33.5	100.5



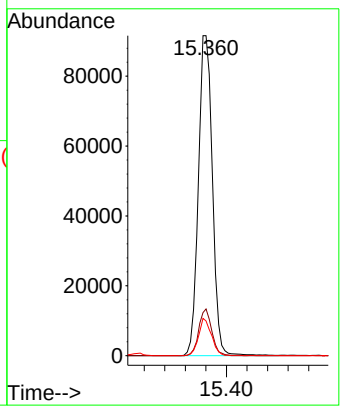


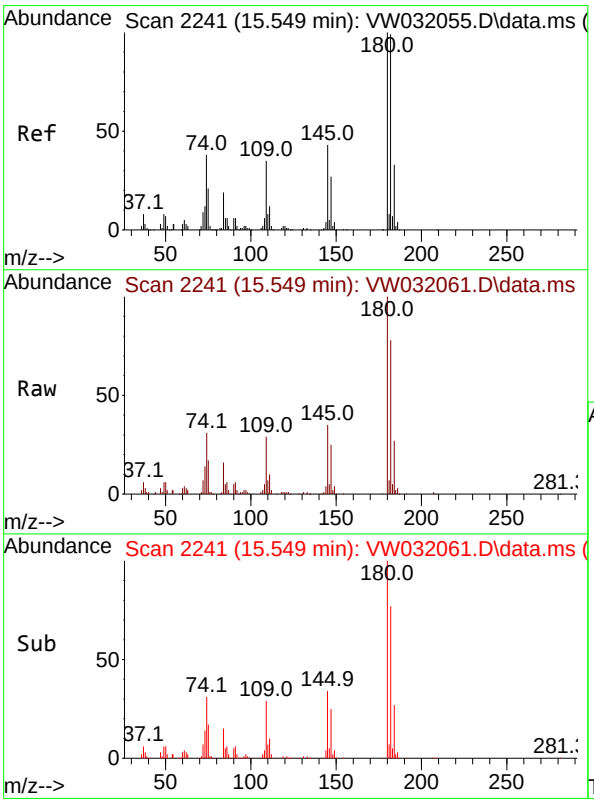
#95
Naphthalene
Concen: 20.498 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBS01

Tgt Ion:128 Resp: 173199

Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.5	15.7
129	10.7	8.2	12.4

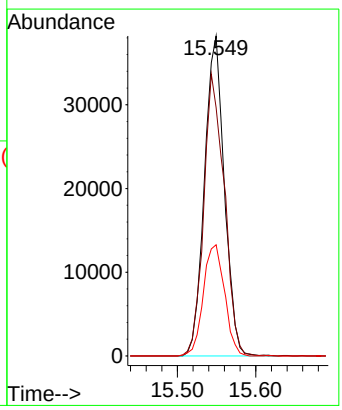




#96
1,2,3-Trichlorobenzene
Concen: 21.446 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:180 Resp: 67287

Ion	Ratio	Lower	Upper
180	100		
182	91.4	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 : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Quant Time: Aug 12 04:24:13 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	226773	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	441696	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	400240	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	195548	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	163196	49.758	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 99.520%			
35) Dibromofluoromethane	7.904	113	134207	47.032	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.060%			
50) Toluene-d8	10.331	98	509734	48.296	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 96.600%			
62) 4-Bromofluorobenzene	12.617	95	193625	49.782	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	33141	20.433	ug/l	95
3) Chloromethane	2.253	50	46903	21.468	ug/l	96
4) Vinyl Chloride	2.405	62	54316	20.553	ug/l	95
5) Bromomethane	2.820	94	41922	21.144	ug/l	99
6) Chloroethane	2.972	64	36568	20.911	ug/l	100
7) Trichlorofluoromethane	3.308	101	43905	20.739	ug/l	93
8) Diethyl Ether	3.722	74	36629	21.118	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.100	101	49478	19.810	ug/l	99
10) Methyl Iodide	4.307	142	73761	20.829	ug/l	98
11) Tert butyl alcohol	5.222	59	22637	106.589	ug/l	98
12) 1,1-Dichloroethene	4.076	96	55617	20.223	ug/l	92
13) Acrolein	3.929	56	36383	107.518	ug/l	99
14) Allyl chloride	4.698	41	83613	20.889	ug/l	99
15) Acrylonitrile	5.405	53	88342	106.933	ug/l	99
16) Acetone	4.155	43	82994	109.296	ug/l	99
17) Carbon Disulfide	4.423	76	147711	20.010	ug/l	98
18) Methyl Acetate	4.710	43	51758	21.540	ug/l	100
19) Methyl tert-butyl Ether	5.460	73	105734	21.820	ug/l	96
20) Methylene Chloride	4.947	84	75897	21.617	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	59755	20.474	ug/l	93
22) Diisopropyl ether	6.337	45	181364	21.493	ug/l	92
23) Vinyl Acetate	6.283	43	596458	107.662	ug/l	99
24) 1,1-Dichloroethane	6.246	63	110715	20.536	ug/l	98
25) 2-Butanone	7.191	43	119355	110.592	ug/l	100
26) 2,2-Dichloropropane	7.191	77	57308	21.188	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	71058	20.829	ug/l	99
28) Bromochloromethane	7.532	49	49164	20.039	ug/l	99
29) Tetrahydrofuran	7.557	42	77560	108.972	ug/l	100
30) Chloroform	7.691	83	119914	20.980	ug/l	97
31) Cyclohexane	7.971	56	94081	20.129	ug/l	95
32) 1,1,1-Trichloroethane	7.886	97	84762	20.417	ug/l	98
36) 1,1-Dichloropropene	8.099	75	79280	19.708	ug/l	99
37) Ethyl Acetate	7.276	43	48057	20.284	ug/l	98
38) Carbon Tetrachloride	8.087	117	76962	19.825	ug/l	88
39) Methylcyclohexane	9.343	83	98634	20.117	ug/l	95
40) Benzene	8.337	78	252942	20.229	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Quant Time: Aug 12 04:24:13 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	27124	20.188	ug/l		93
42) 1,2-Dichloroethane	8.416	62	83160	20.784	ug/l		99
43) Isopropyl Acetate	8.435	43	88890	20.393	ug/l		100
44) Trichloroethene	9.105	130	59840	20.095	ug/l		97
45) 1,2-Dichloropropane	9.373	63	60825	20.135	ug/l		95
46) Dibromomethane	9.465	93	39289	20.151	ug/l		98
47) Bromodichloromethane	9.654	83	89761	19.980	ug/l		96
48) Methyl methacrylate	9.441	41	43222	20.539	ug/l		99
49) 1,4-Dioxane	9.465	88	10586	419.936	ug/l		87
51) 4-Methyl-2-Pentanone	10.215	43	257970	104.852	ug/l		100
52) Toluene	10.392	92	161185	20.465	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	84143	19.991	ug/l		99
54) cis-1,3-Dichloropropene	10.081	75	97621	20.444	ug/l		99
55) 1,1,2-Trichloroethane	10.788	97	53687	20.722	ug/l		97
56) Ethyl methacrylate	10.648	69	72299	20.854	ug/l		97
57) 1,3-Dichloropropane	10.934	76	90595	20.061	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	192035	100.139	ug/l		99
59) 2-Hexanone	10.971	43	180946	106.193	ug/l		100
60) Dibromochloromethane	11.129	129	59430	20.081	ug/l		100
61) 1,2-Dibromoethane	11.233	107	52100	20.693	ug/l		99
64) Tetrachloroethene	10.867	164	47470	20.534	ug/l		91
65) Chlorobenzene	11.660	112	176392	20.247	ug/l		93
66) 1,1,1,2-Tetrachloroethane	11.733	131	54330	19.988	ug/l		96
67) Ethyl Benzene	11.727	91	302504	20.500	ug/l		97
68) m/p-Xylenes	11.836	106	231893	40.725	ug/l		96
69) o-Xylene	12.166	106	107543	20.434	ug/l		99
70) Styrene	12.178	104	194078	20.761	ug/l		100
71) Bromoform	12.349	173	31350	20.163	ug/l	#	99
73) Isopropylbenzene	12.464	105	266409	19.494	ug/l		99
74) N-amyl acetate	12.269	43	79492	20.275	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	66644	20.539	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	81702	30.784	ug/l		58
77) Bromobenzene	12.745	156	67682	20.736	ug/l		97
78) n-propylbenzene	12.800	91	340328	20.228	ug/l		100
79) 2-Chlorotoluene	12.891	91	209148	20.142	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	234936	20.250	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	19731	19.247	ug/l		92
82) 4-Chlorotoluene	12.989	91	220054	19.946	ug/l		98
83) tert-Butylbenzene	13.202	119	194628	20.213	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	247687	20.972	ug/l		99
85) sec-Butylbenzene	13.379	105	295479	20.297	ug/l		98
86) p-Isopropyltoluene	13.495	119	247079	20.359	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	134680	20.737	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	136123	20.740	ug/l		98
89) n-Butylbenzene	13.818	91	235344	19.961	ug/l		99
90) Hexachloroethane	14.086	117	41787	18.827	ug/l		99
91) 1,2-Dichlorobenzene	13.867	146	122421	20.808	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.482	75	11304	19.597	ug/l		99
93) 1,2,4-Trichlorobenzene	15.122	180	71854	20.416	ug/l		95
94) Hexachlorobutadiene	15.226	225	30590	19.444	ug/l		99
95) Naphthalene	15.360	128	174401	20.223	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	65985	20.606	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Quant Time: Aug 12 04:24:13 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

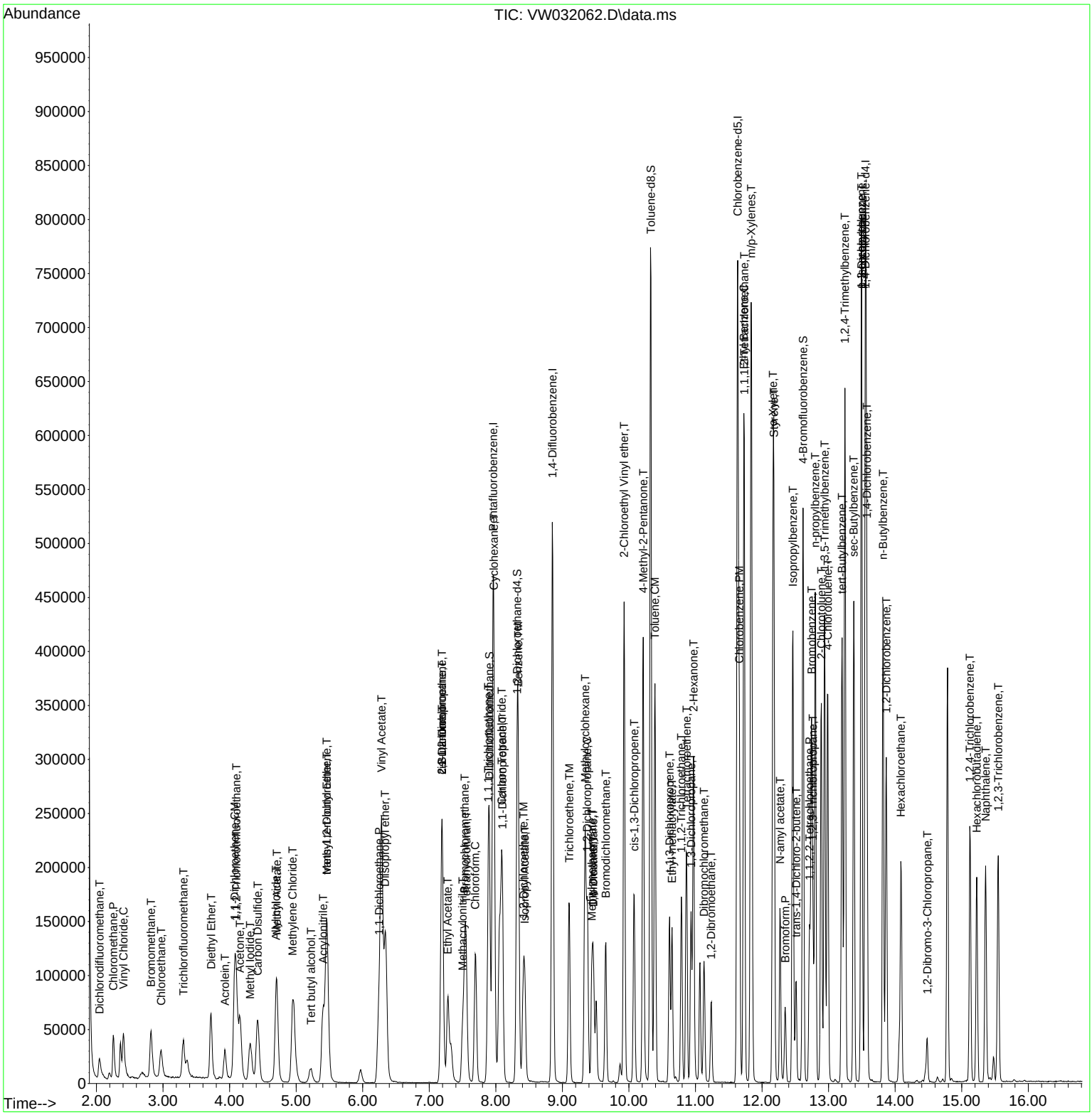
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

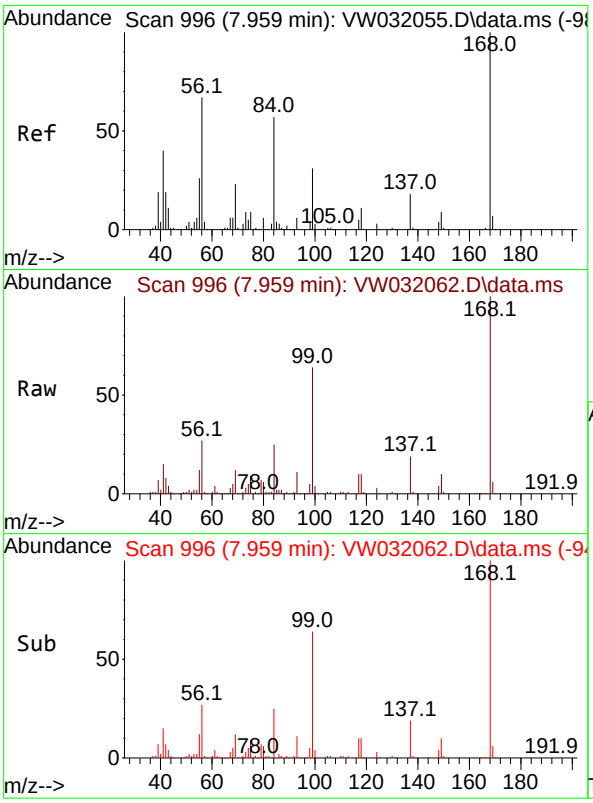
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Quant Time: Aug 12 04:24:13 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



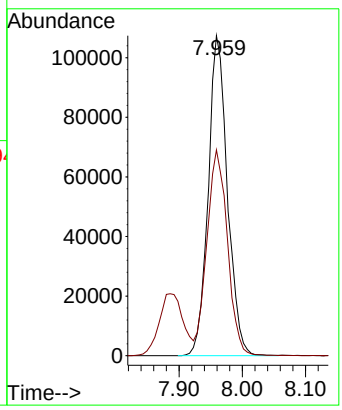


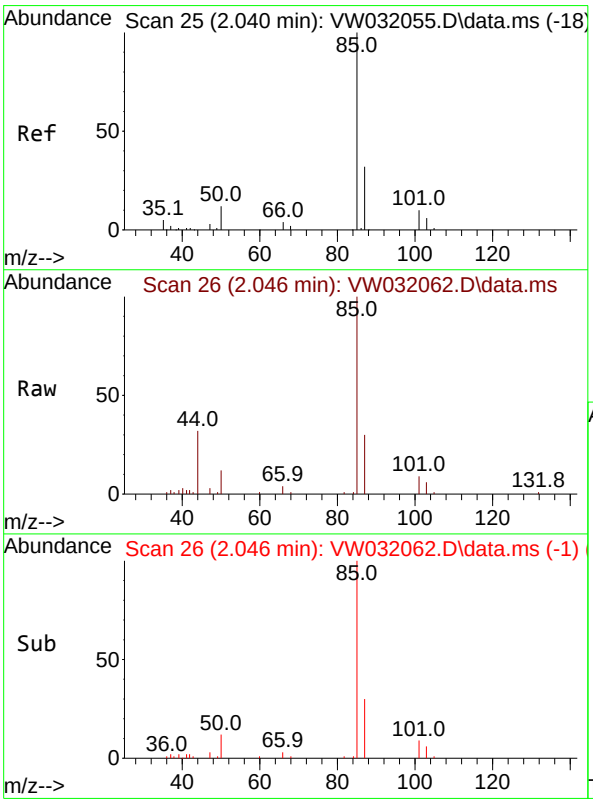
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:168 Resp: 226773

Ion	Ratio	Lower	Upper
168	100		
99	64.2	56.0	84.0

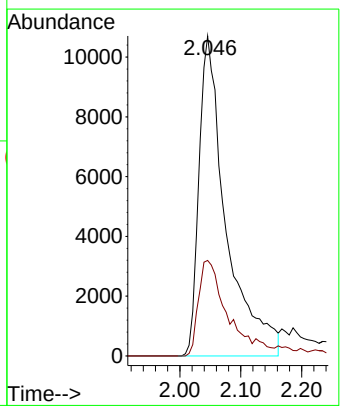


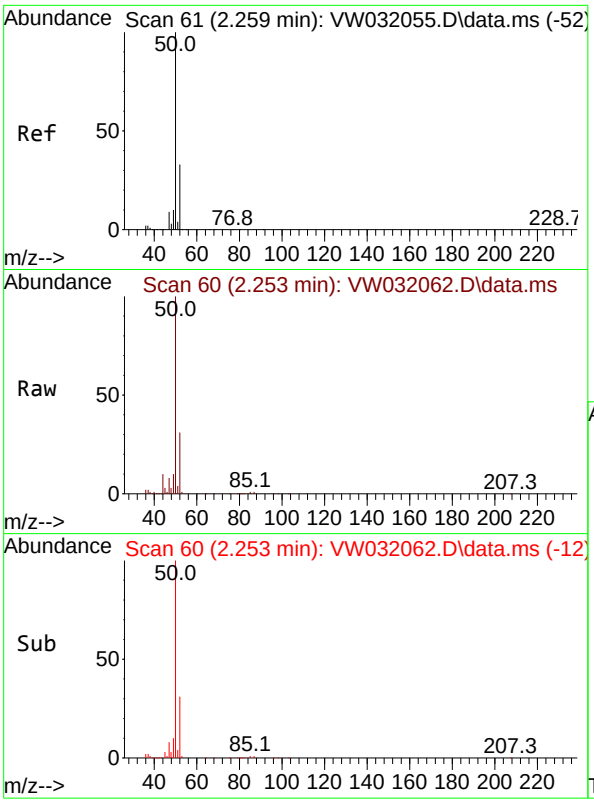


#2
Dichlorodifluoromethane
Concen: 20.433 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 85 Resp: 33141

Ion	Ratio	Lower	Upper
85	100		
87	29.9	16.2	48.6



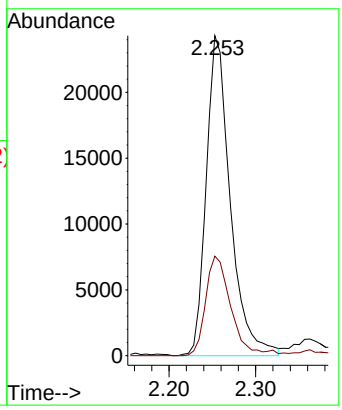


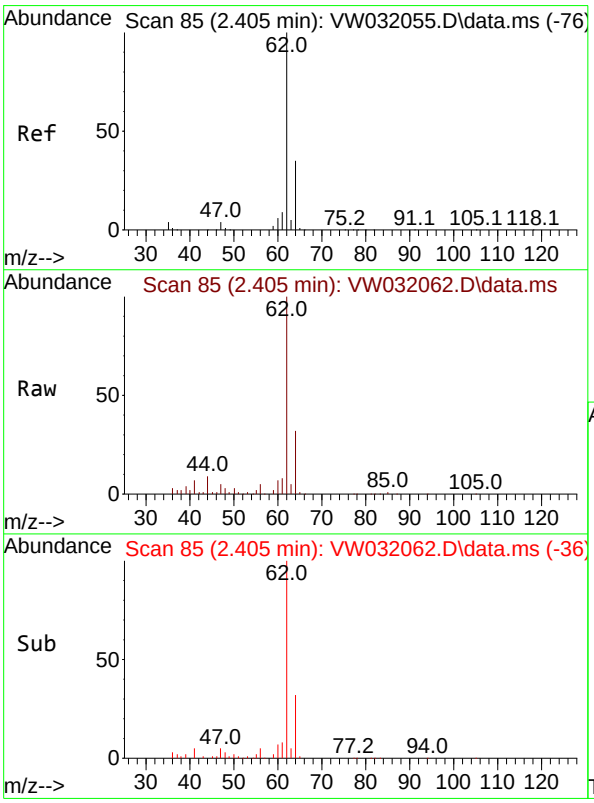
#3
Chloromethane
Concen: 21.468 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 50 Resp: 46903

Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.6	39.8

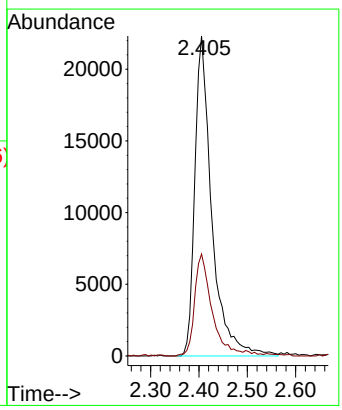


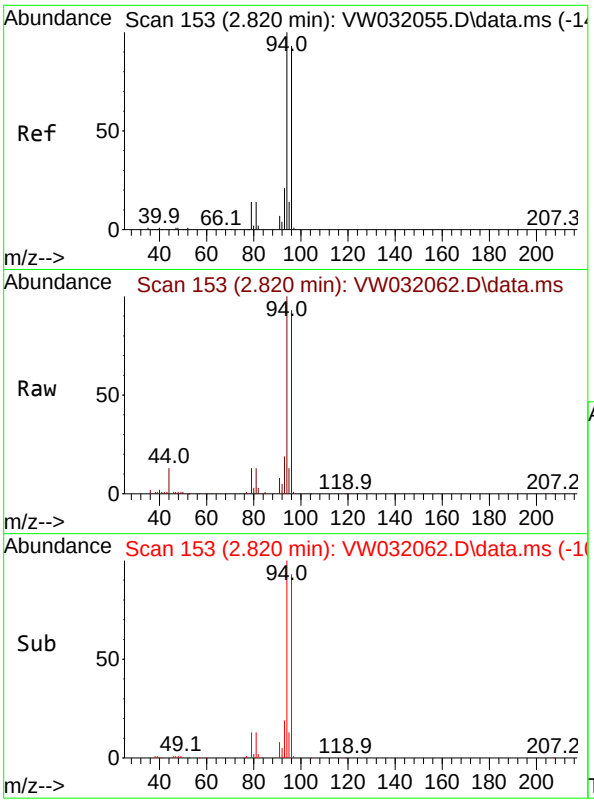


#4
Vinyl Chloride
Concen: 20.553 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 54316

Ion	Ratio	Lower	Upper
62	100		
64	31.5	27.8	41.6



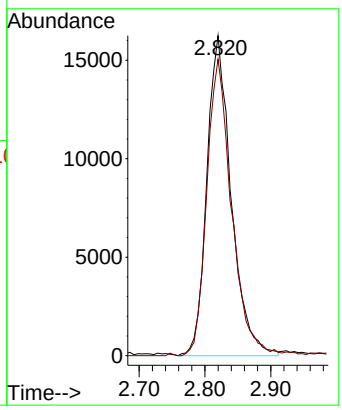


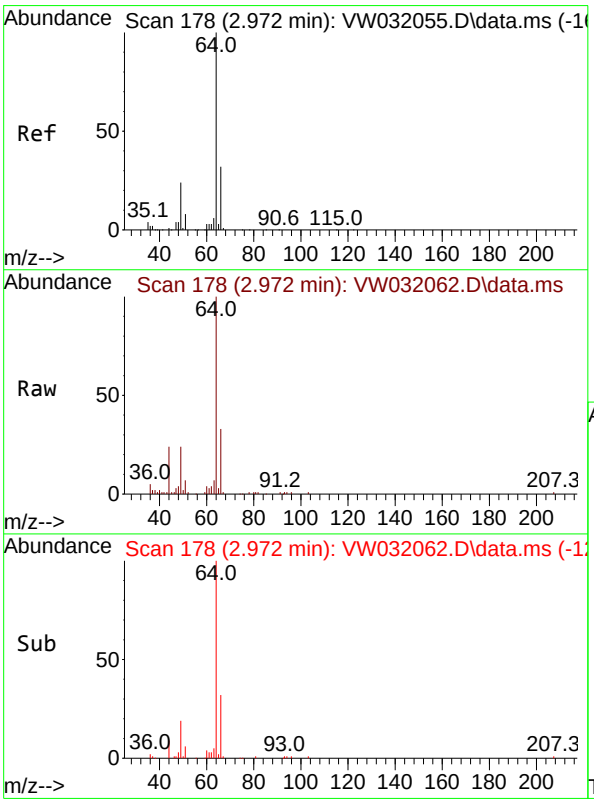
#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 94 Resp: 41922

Ion	Ratio	Lower	Upper
94	100		
96	92.6	74.7	112.1

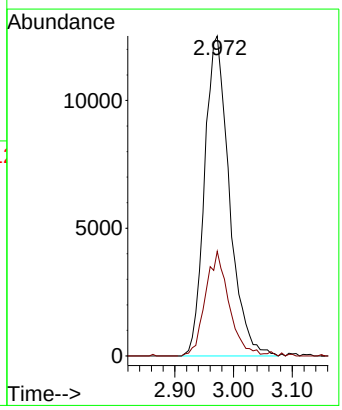


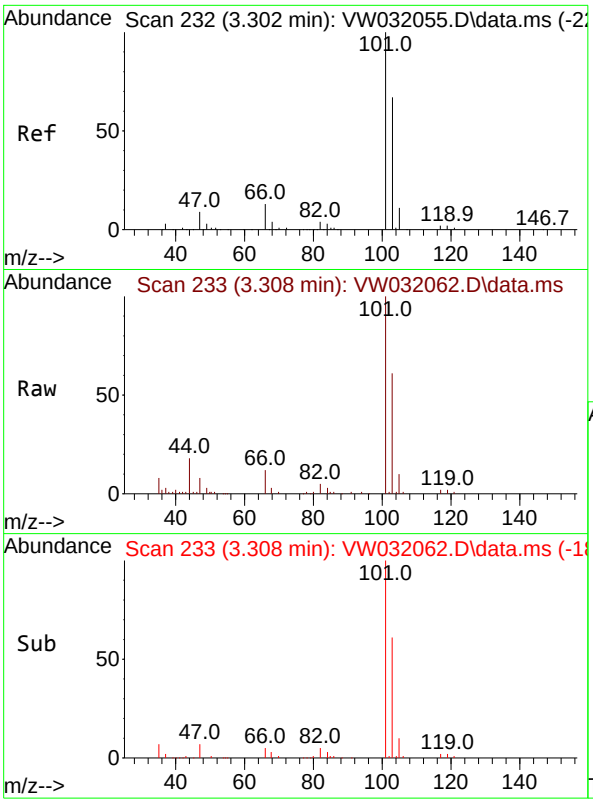


#6
Chloroethane
Concen: 20.911 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 64 Resp: 36568

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.0	39.0



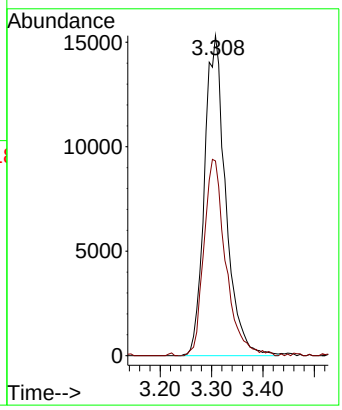


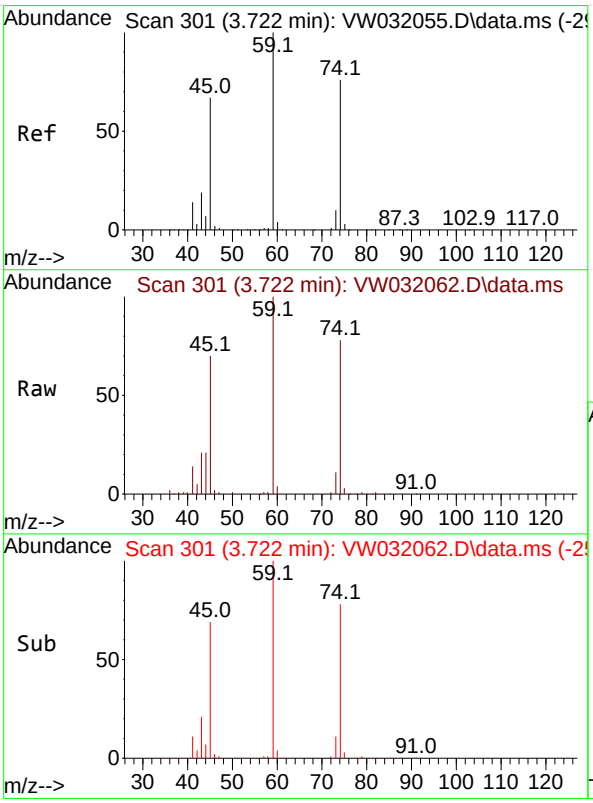
#7
Trichlorofluoromethane
Concen: 20.739 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:101 Resp: 43905

Ion	Ratio	Lower	Upper
101	100		
103	60.8	53.4	80.0

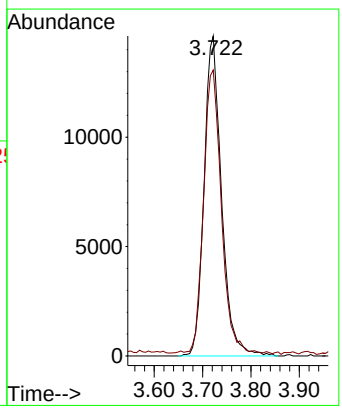


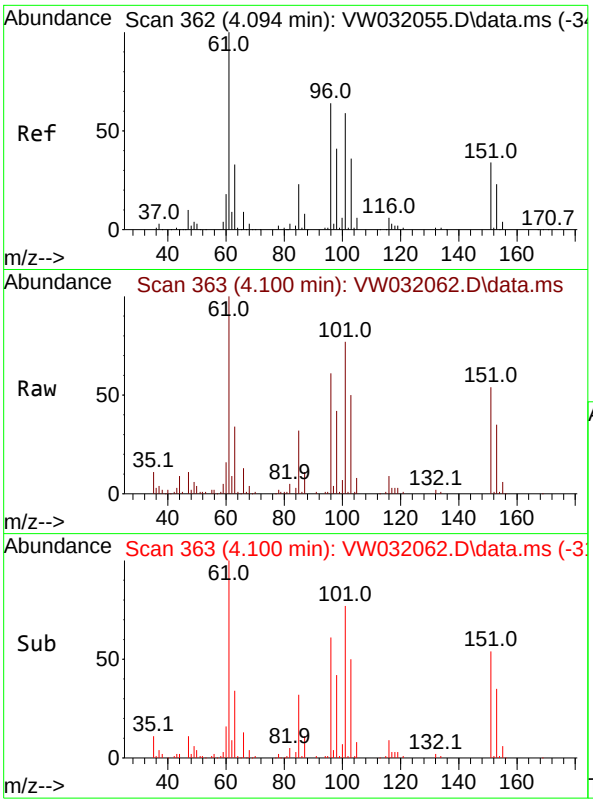


#8
Diethyl Ether
Concen: 21.118 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 74 Resp: 36629

Ion	Ratio	Lower	Upper
74	100		
45	89.2	45.4	136.2



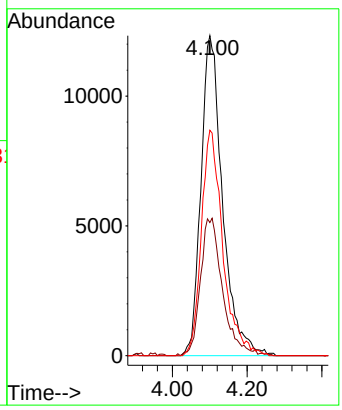


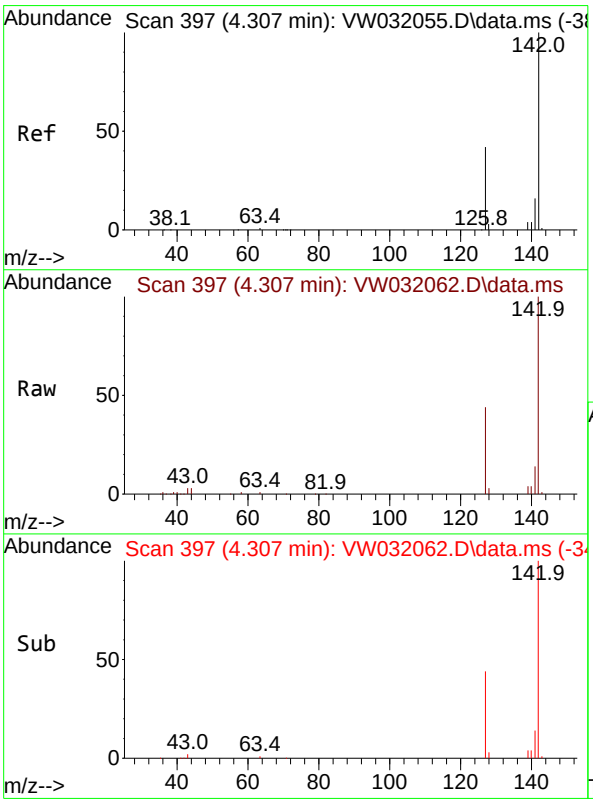
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.810 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:101 Resp: 49478

Ion	Ratio	Lower	Upper
101	100		
85	44.1	34.9	52.3
151	70.0	56.2	84.4

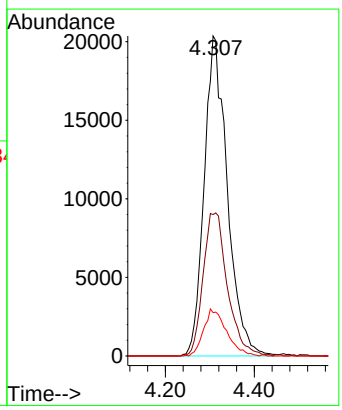


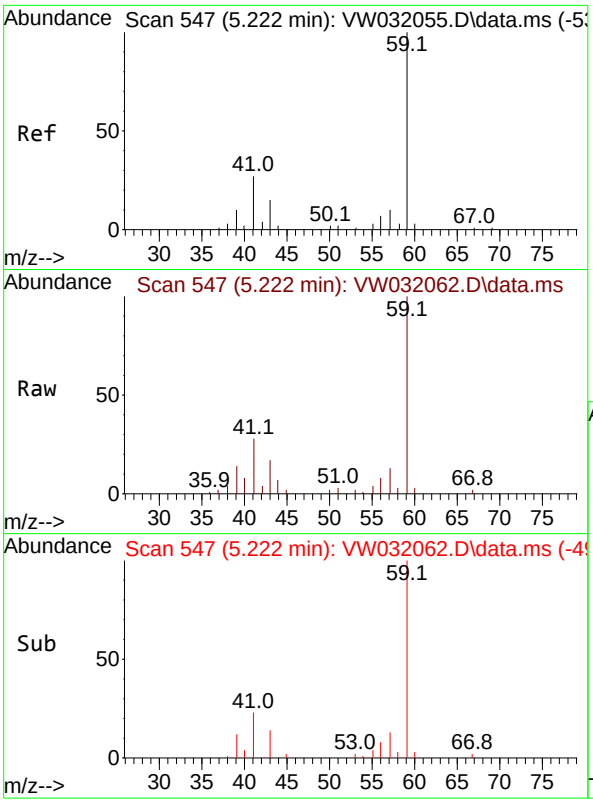


#10
Methyl Iodide
Concen: 20.829 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:142 Resp: 73761

Ion	Ratio	Lower	Upper
142	100		
127	47.0	36.6	55.0
141	14.5	12.1	18.1



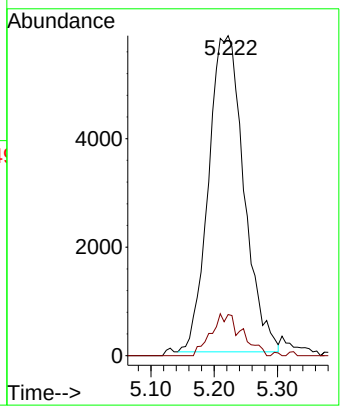


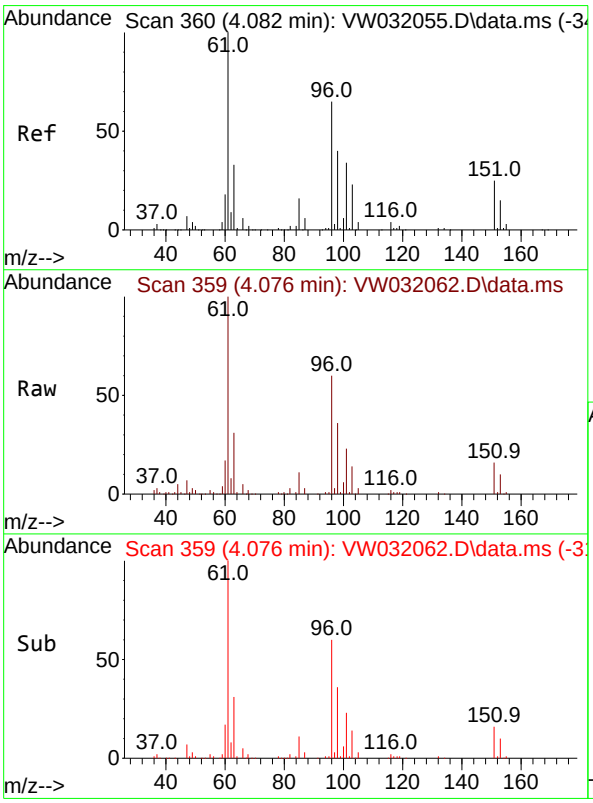
#11
Tert butyl alcohol
Concen: 106.589 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 59 Resp: 22637

Ion	Ratio	Lower	Upper
59	100		
57	11.5	8.7	13.1

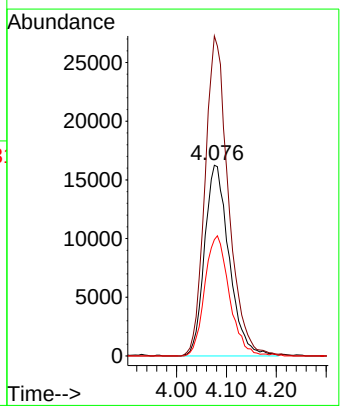


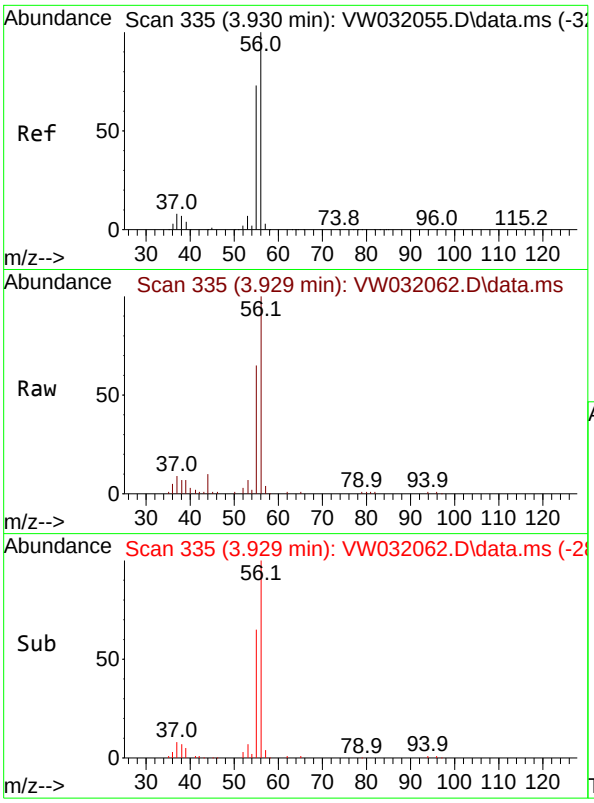


#12
1,1-Dichloroethene
Concen: 20.223 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 55617

Ion	Ratio	Lower	Upper
96	100		
61	167.8	123.4	185.2
98	61.0	49.5	74.3



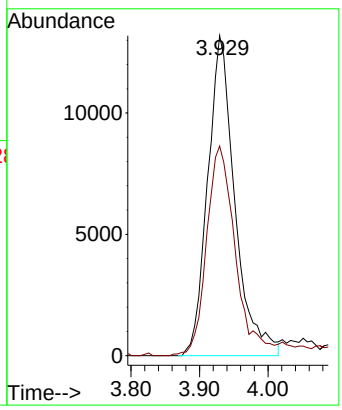


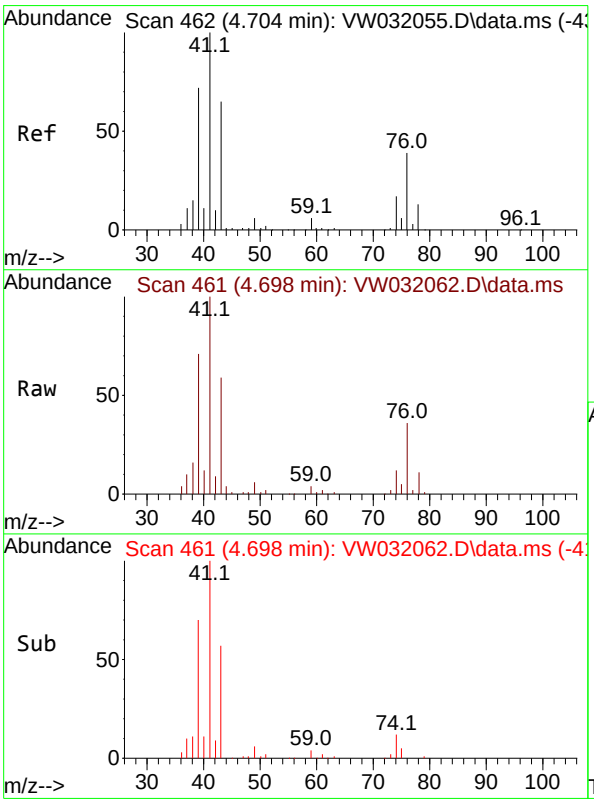
#13
Acrolein
Concen: 107.518 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 56 Resp: 36383

Ion	Ratio	Lower	Upper
56	100		
55	68.8	55.4	83.2

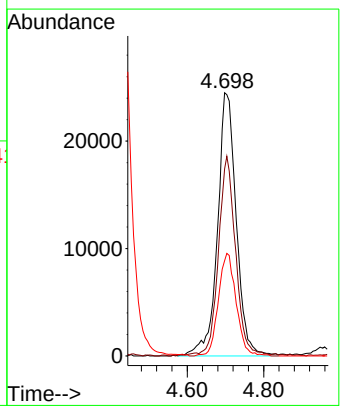


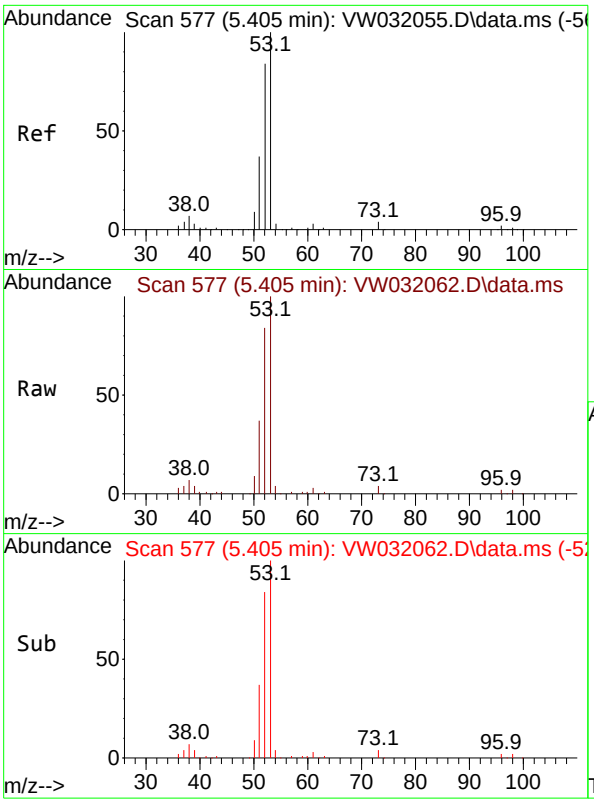


#14
Allyl chloride
Concen: 20.889 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 83613

Ion	Ratio	Lower	Upper
41	100		
39	69.6	54.5	81.7
76	36.8	29.3	43.9



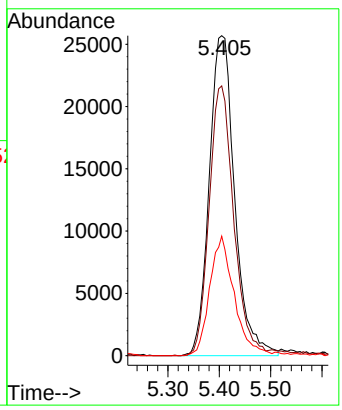


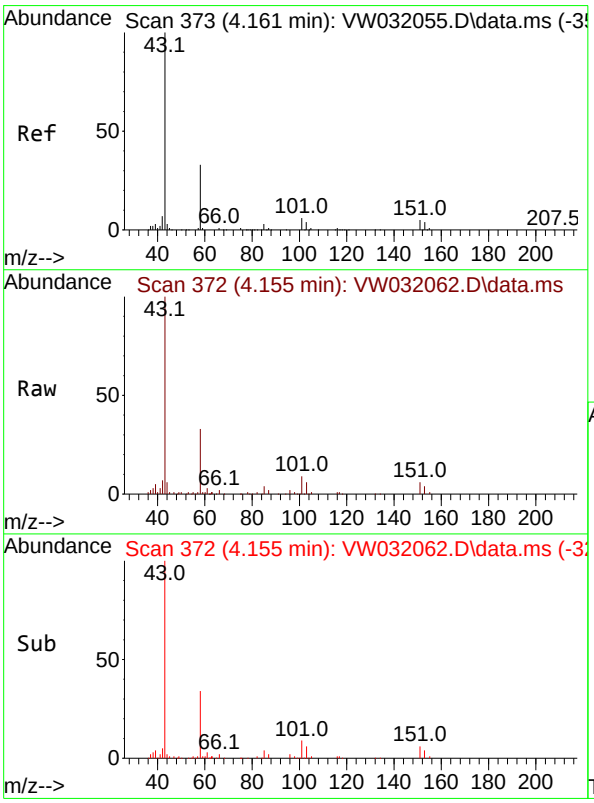
#15
Acrylonitrile
Concen: 106.933 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 53 Resp: 88342

Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.1	99.1
51	35.9	29.2	43.8

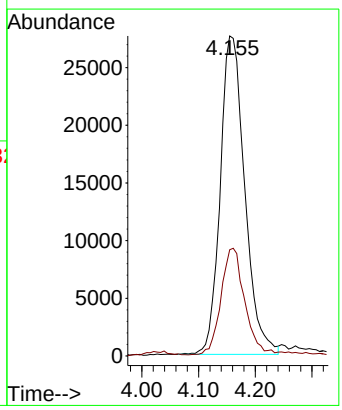


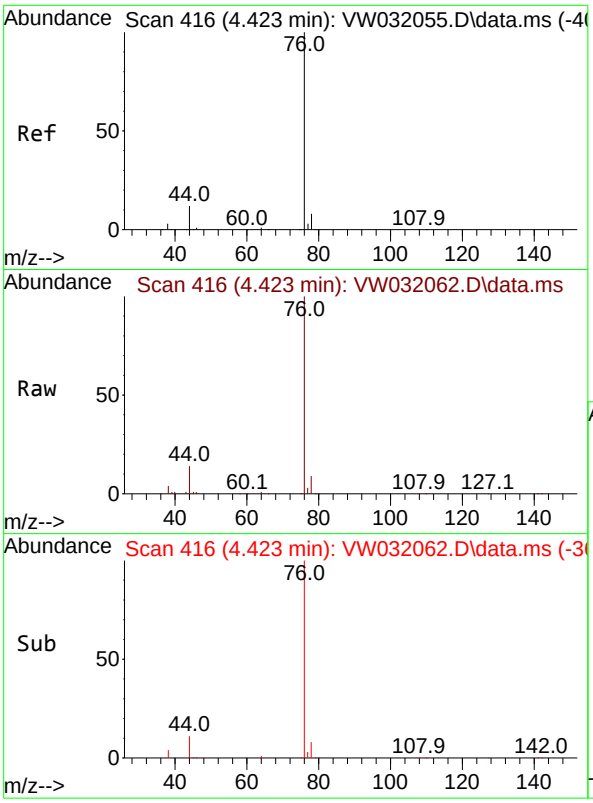


#16
Acetone
Concen: 109.296 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 82994

Ion	Ratio	Lower	Upper
43	100		
58	32.7	26.6	39.8



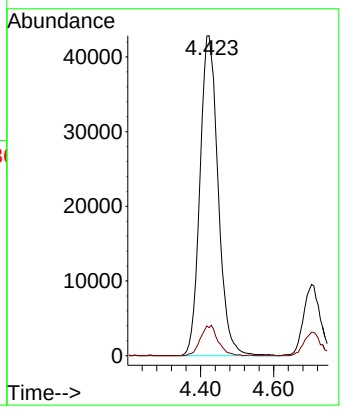


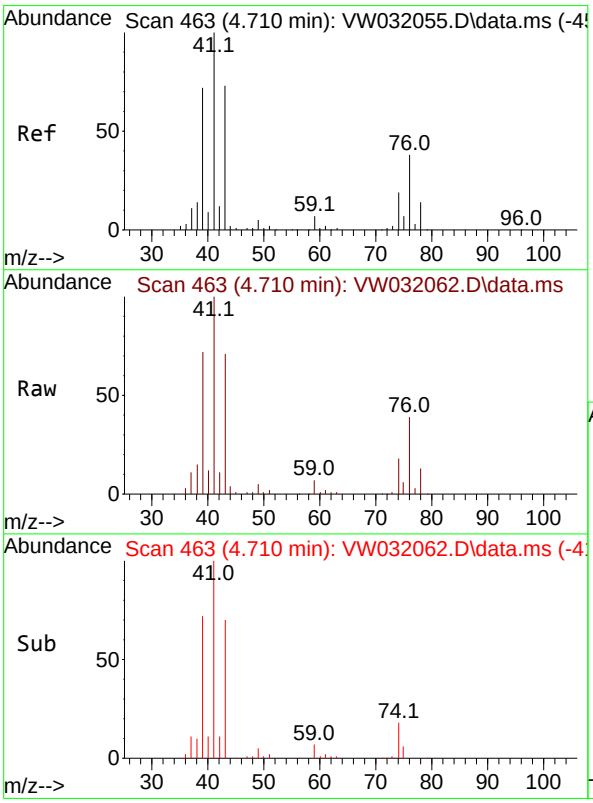
#17
Carbon Disulfide
Concen: 20.010 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 76 Resp: 147711

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.4	9.6

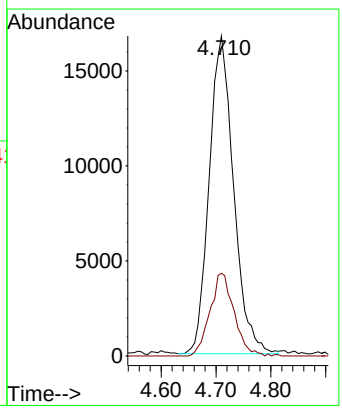


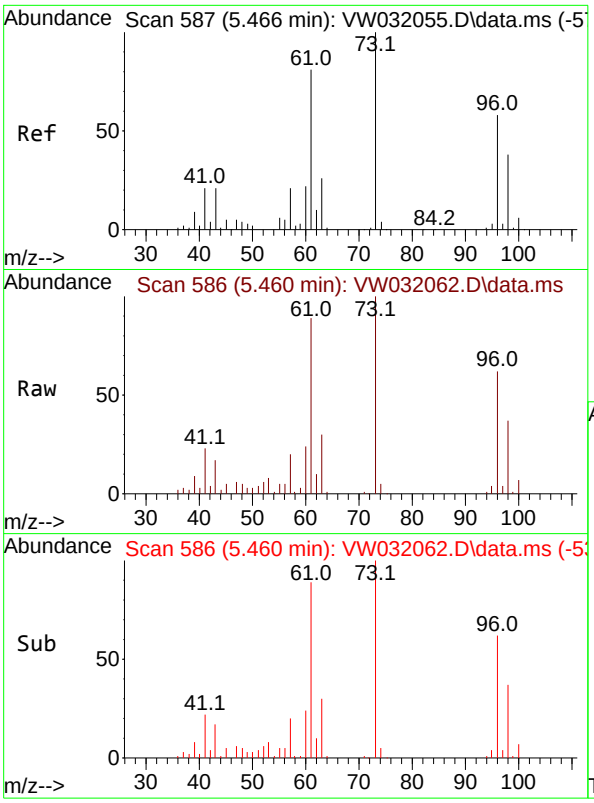


#18
Methyl Acetate
Concen: 21.540 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 51758

Ion	Ratio	Lower	Upper
43	100		
74	25.6	20.6	31.0



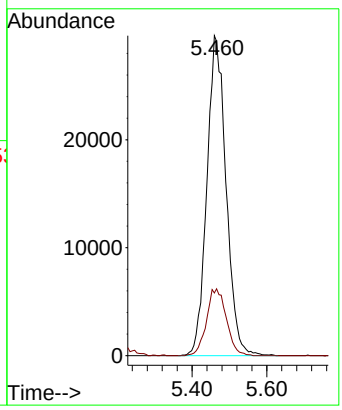


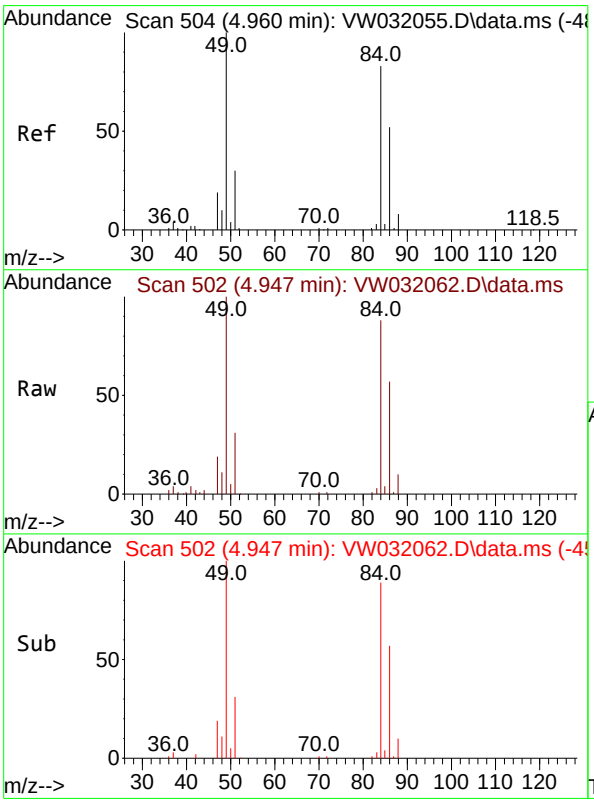
#19
Methyl tert-butyl Ether
Concen: 21.820 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 73 Resp: 105734

Ion	Ratio	Lower	Upper
73	100		
57	19.6	17.2	25.8

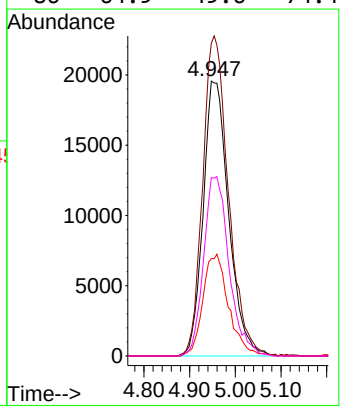


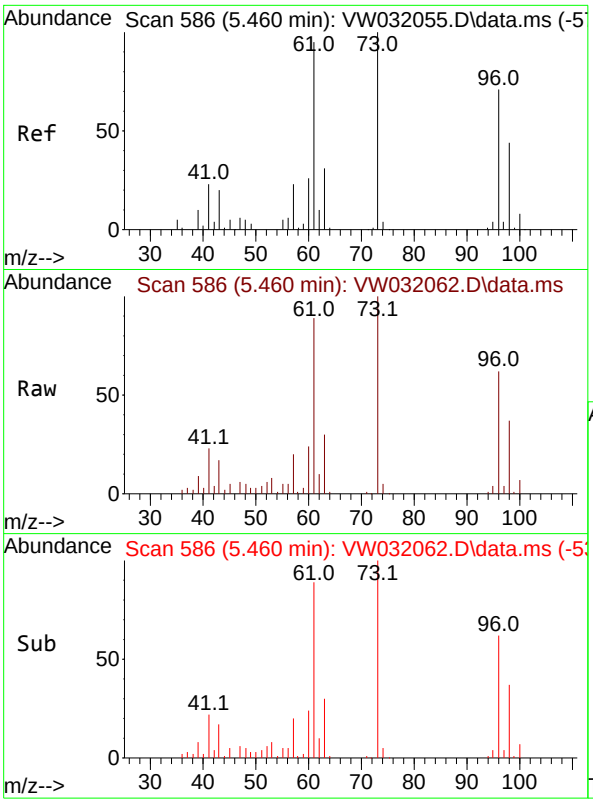


#20
Methylene Chloride
Concen: 21.617 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 84 Resp: 75897

Ion	Ratio	Lower	Upper
84	100		
49	113.8	95.9	143.9
51	35.4	28.6	43.0
86	64.9	49.6	74.4



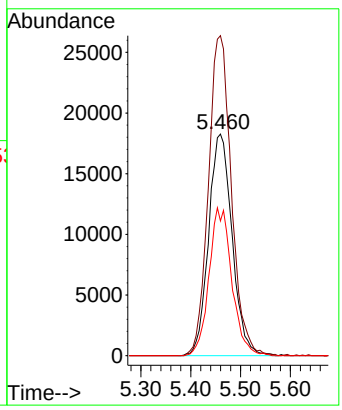


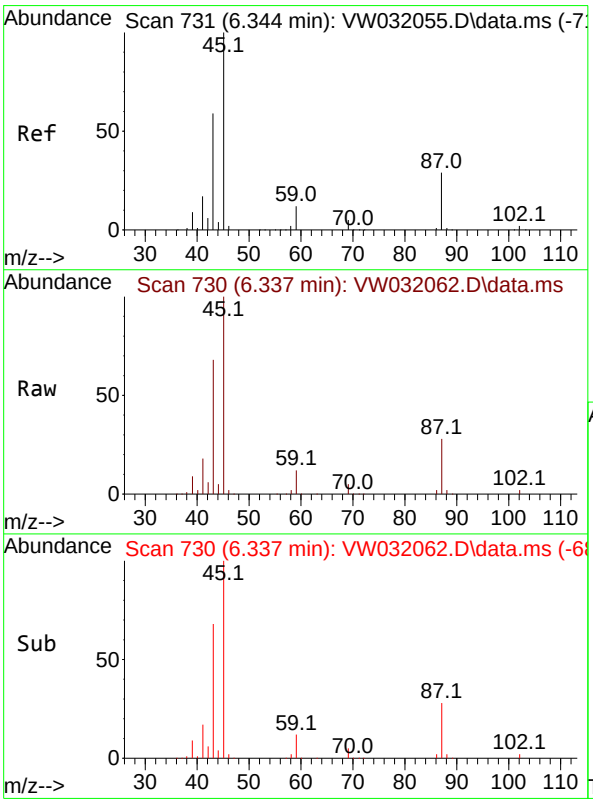
#21
trans-1,2-Dichloroethene
Concen: 20.474 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 96 Resp: 59755

Ion	Ratio	Lower	Upper
96	100		
61	144.4	106.8	160.2
98	60.8	49.6	74.4

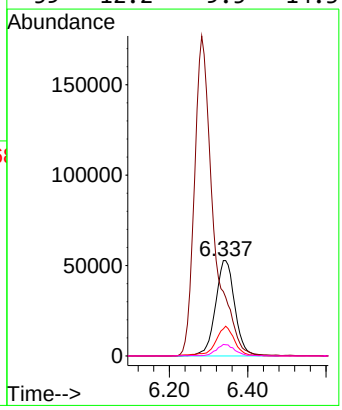


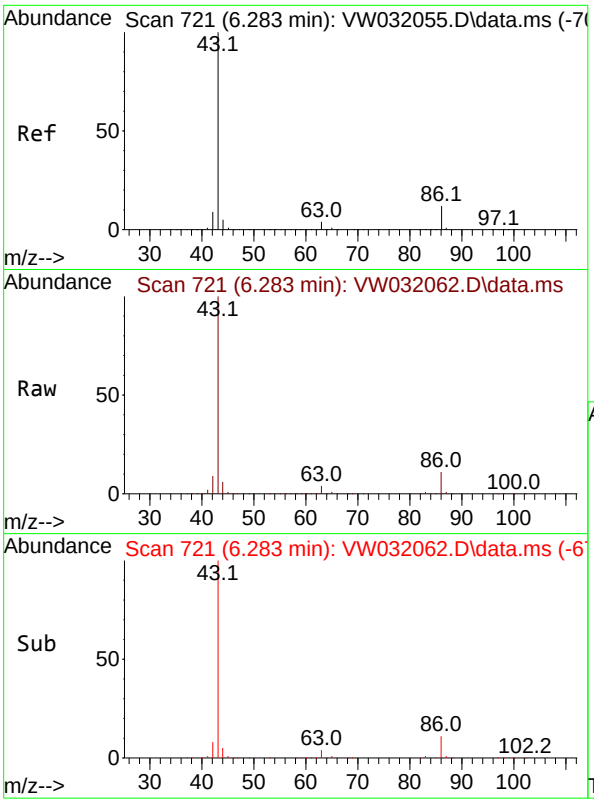


#22
Diisopropyl ether
Concen: 21.493 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 45 Resp: 181364

Ion	Ratio	Lower	Upper
45	100		
43	67.2	47.0	70.4
87	28.4	23.8	35.8
59	12.2	9.5	14.3



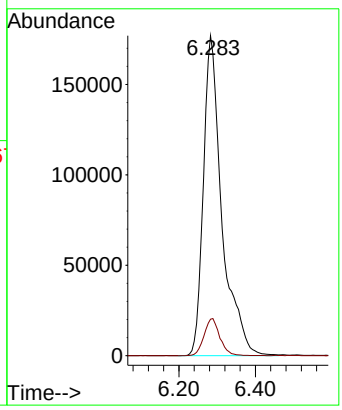


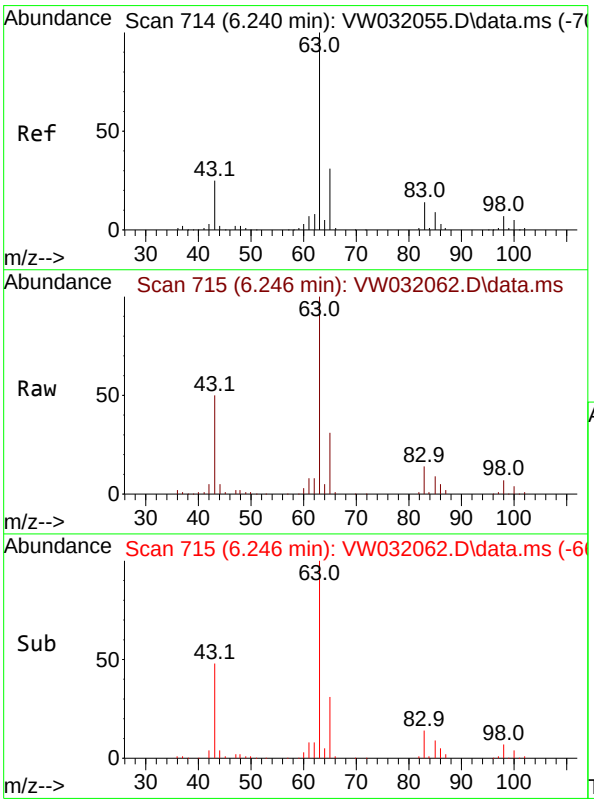
#23
Vinyl Acetate
Concen: 107.662 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 43 Resp: 596458

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.4	14.0

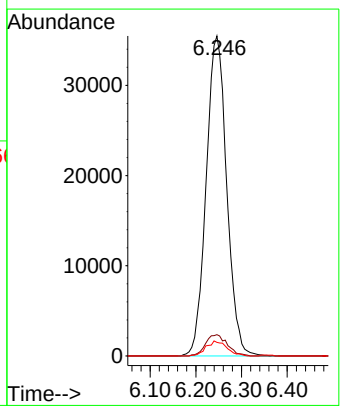


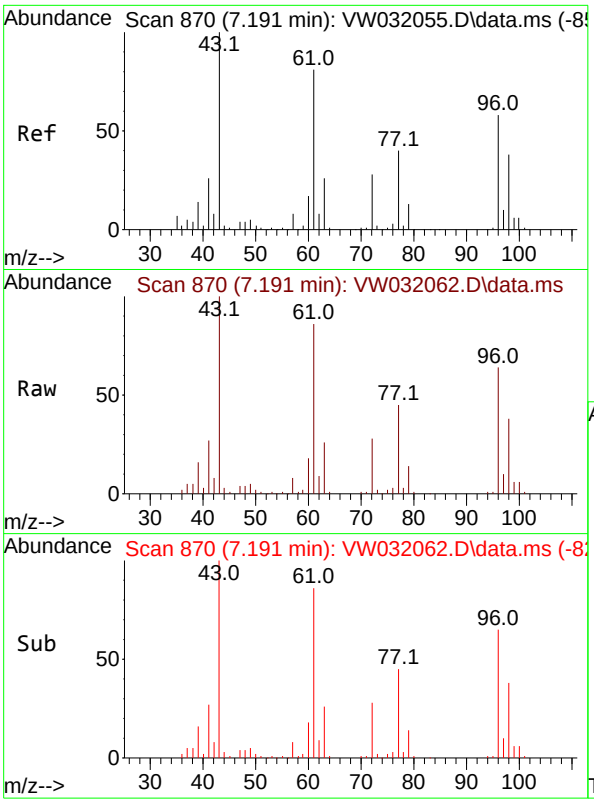


#24
1,1-Dichloroethane
Concen: 20.536 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 110715

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.7	11.1
100	4.2	2.5	7.4



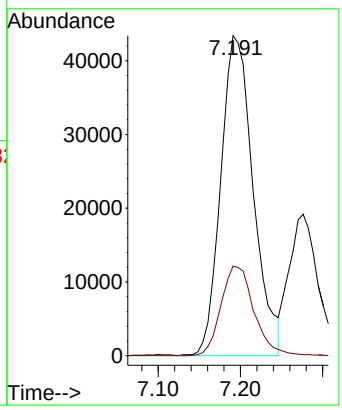


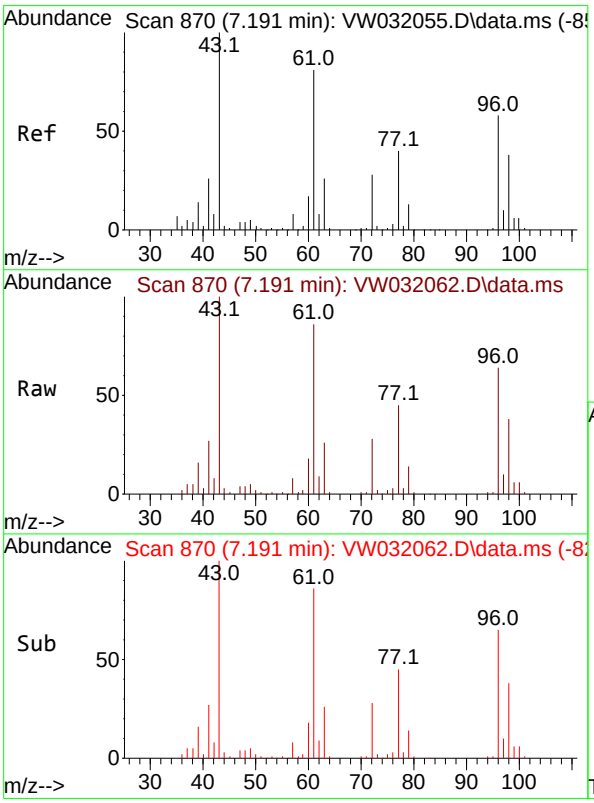
#25
2-Butanone
Concen: 110.592 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 43 Resp: 119355

Ion	Ratio	Lower	Upper
43	100		
72	28.0	22.3	33.5

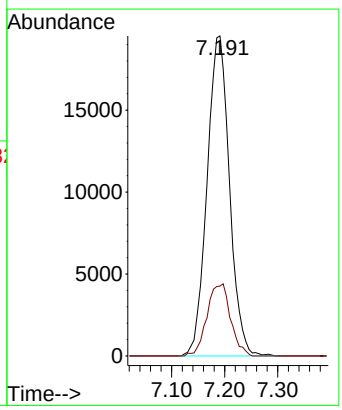


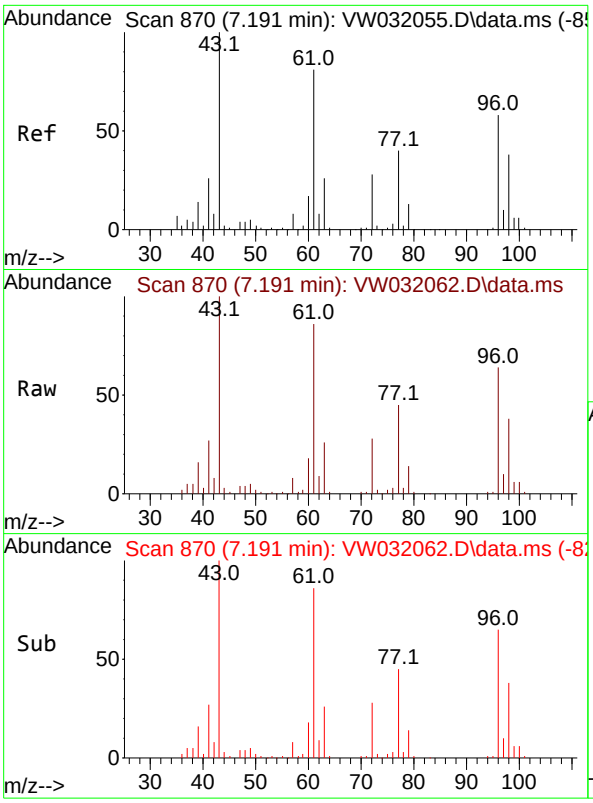


#26
2,2-Dichloropropane
Concen: 21.188 ug/l
RT: 7.191 min Scan# 870
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 77 Resp: 57308

Ion	Ratio	Lower	Upper
77	100		
97	23.6	12.3	36.9



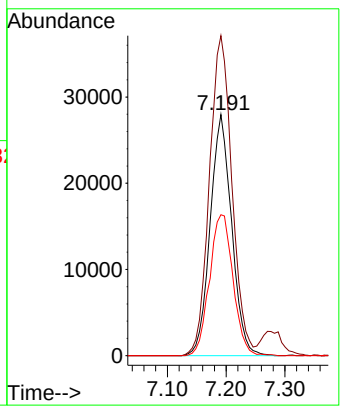


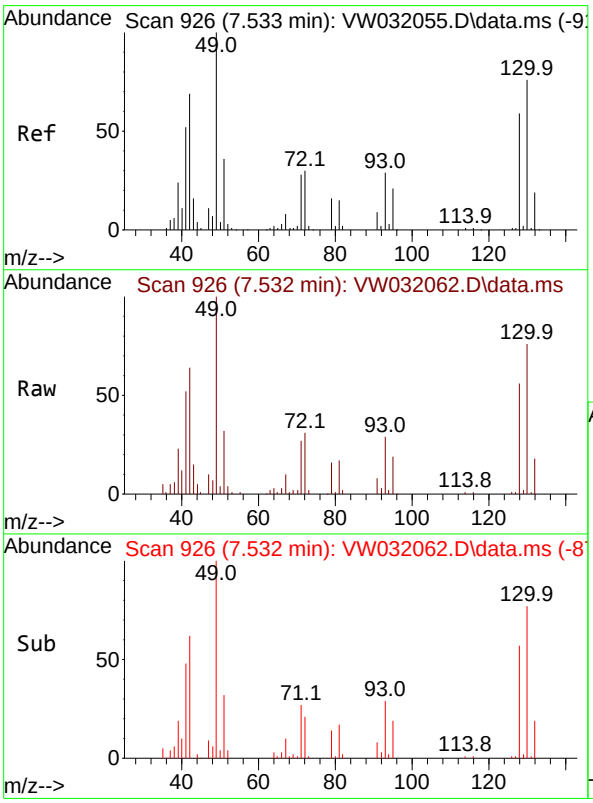
#27
cis-1,2-Dichloroethene
Concen: 20.829 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 96 Resp: 71058

Ion	Ratio	Lower	Upper
96	100		
61	139.0	0.0	281.2
98	63.9	0.0	130.8

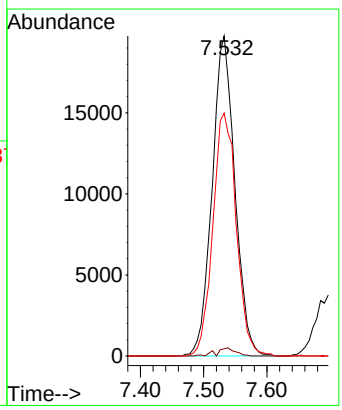


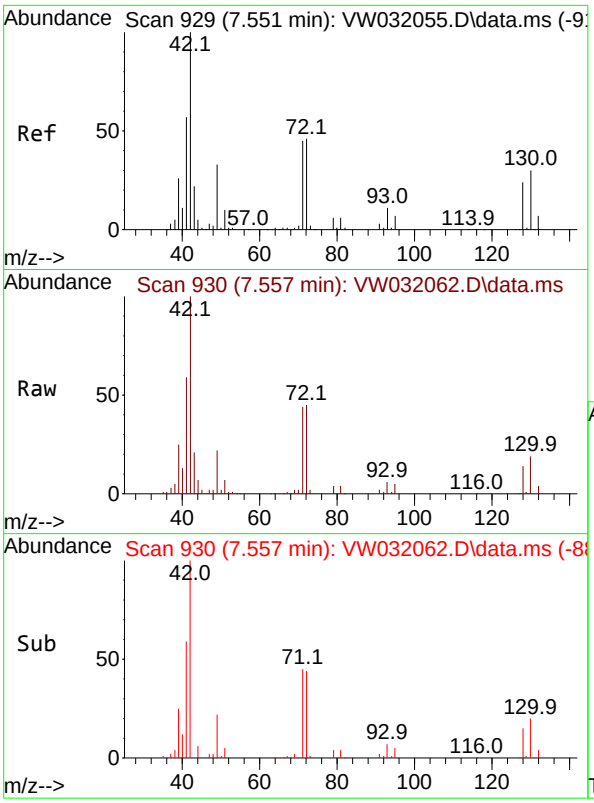


#28
Bromochloromethane
Concen: 20.039 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 49 Resp: 49164

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.2
130	78.4	61.9	92.9



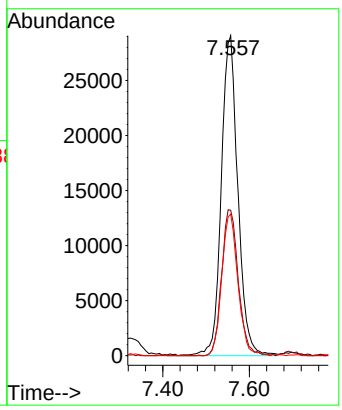


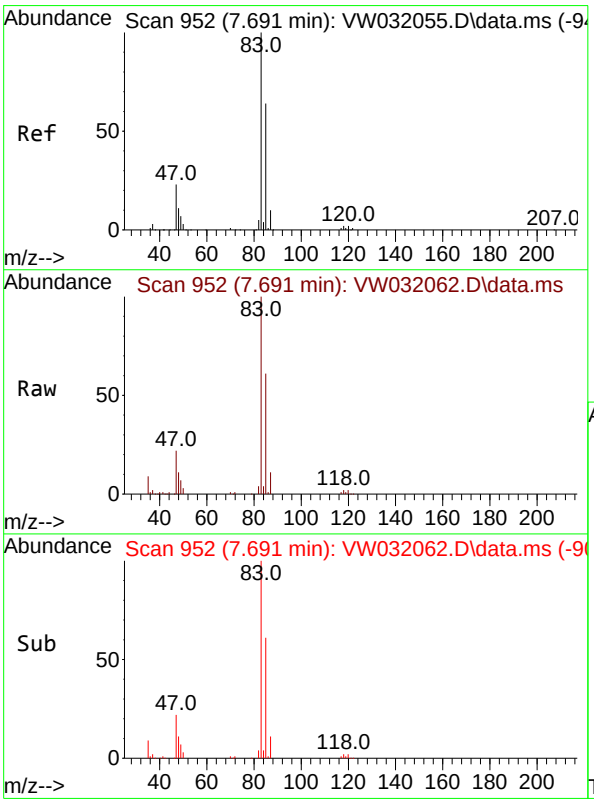
#29
Tetrahydrofuran
Concen: 108.972 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 42 Resp: 77560

Ion	Ratio	Lower	Upper
42	100		
72	46.0	36.6	55.0
71	43.2	34.7	52.1

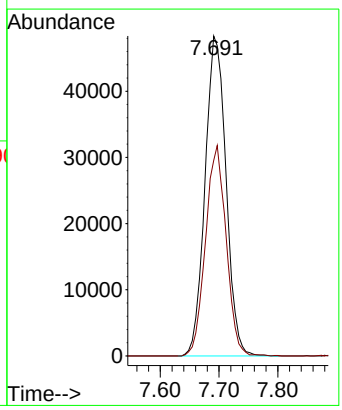


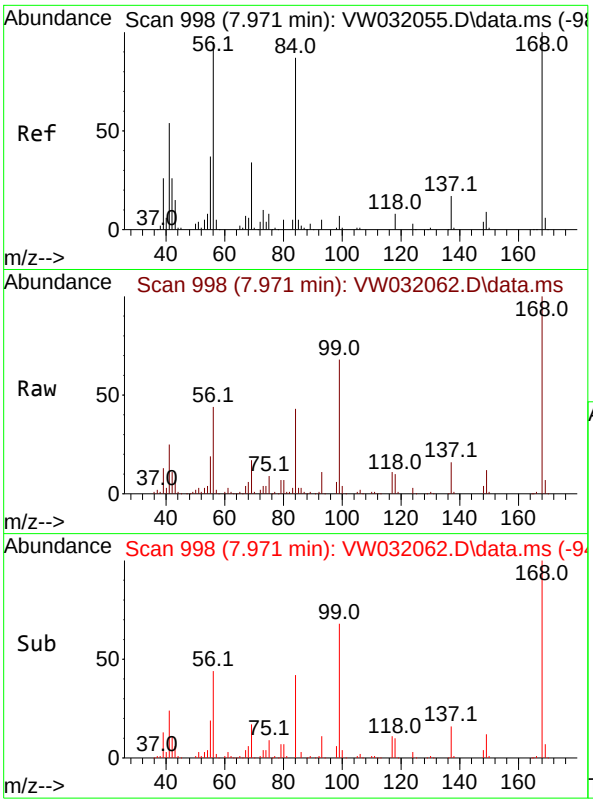


#30
Chloroform
Concen: 20.980 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 119914

Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.0	76.4



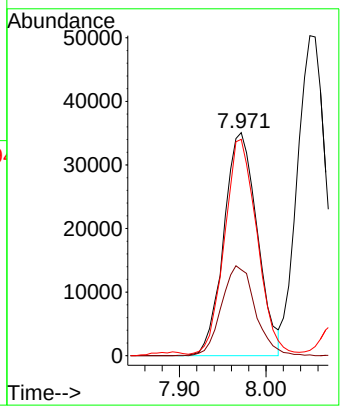


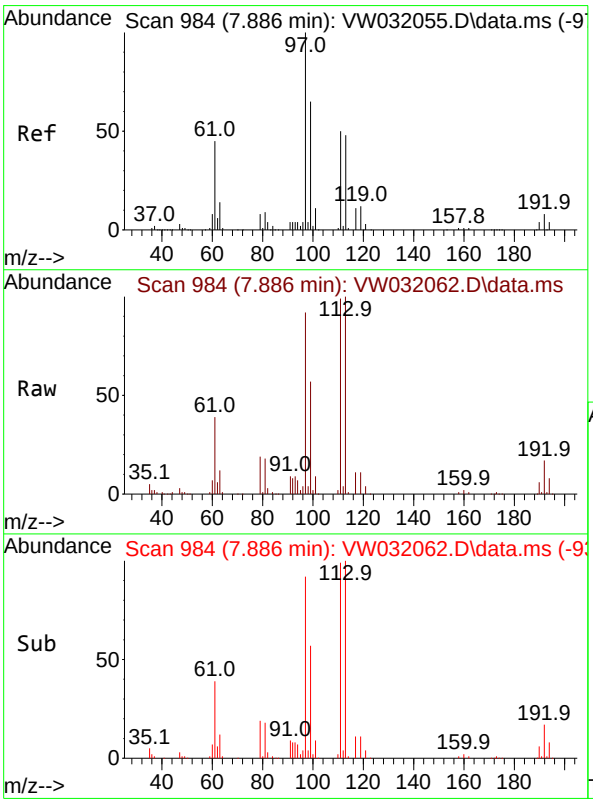
#31
Cyclohexane
Concen: 20.129 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 56 Resp: 94081

Ion	Ratio	Lower	Upper
56	100		
69	38.4	28.6	42.8
84	95.4	73.0	109.4

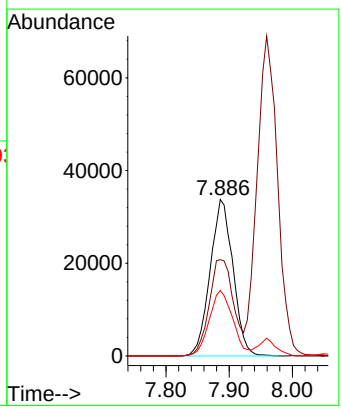


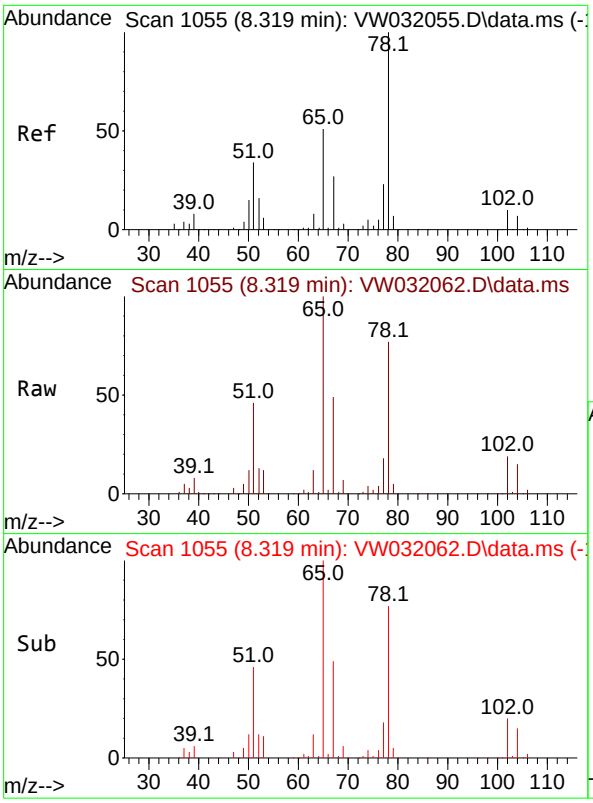


#32
1,1,1-Trichloroethane
Concen: 20.417 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 97 Resp: 84762

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.8	77.8
61	43.2	35.9	53.9



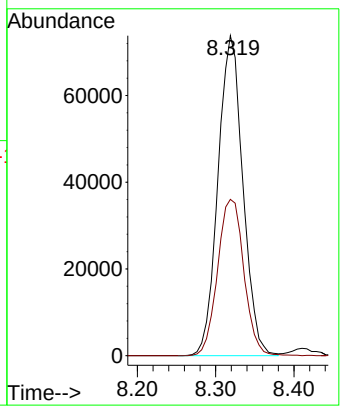


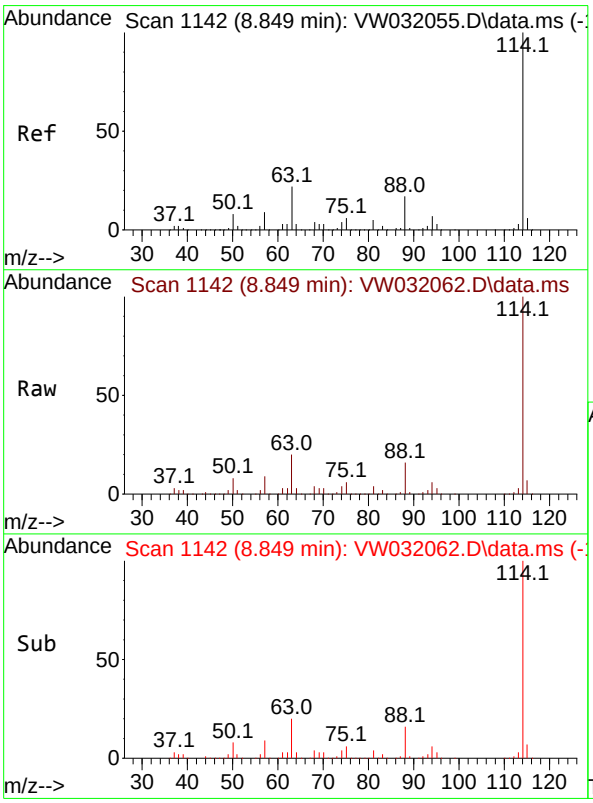
#33
1,2-Dichloroethane-d4
Concen: 49.758 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 65 Resp: 163196

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	102.4

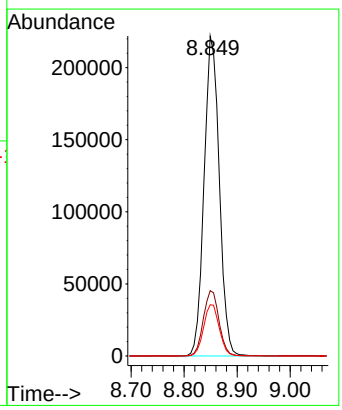


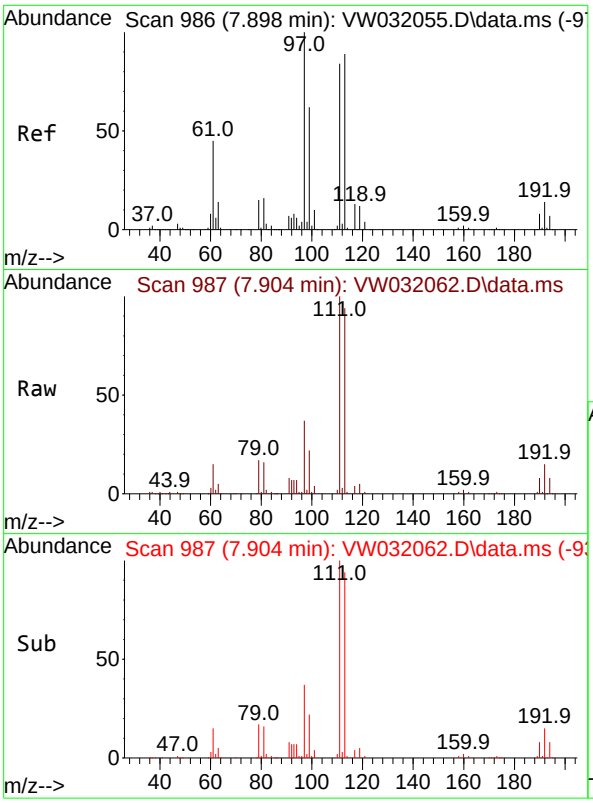


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:114 Resp: 441696

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.0
88	16.0	0.0	33.8



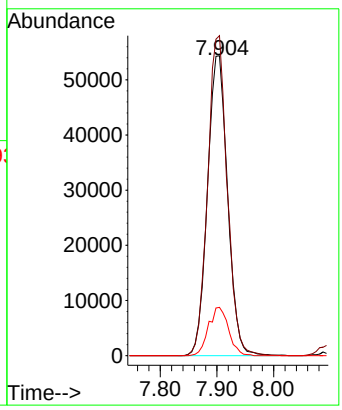


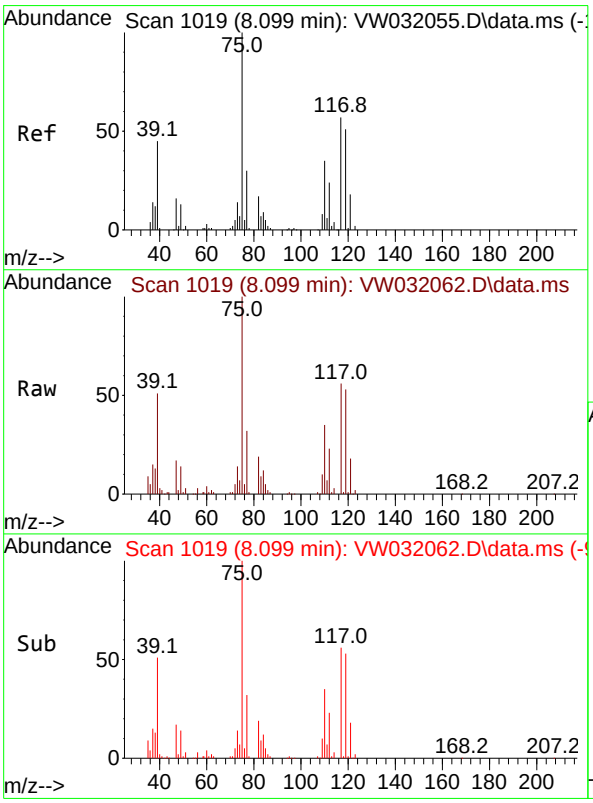
#35
Dibromofluoromethane
Concen: 47.032 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:113 Resp: 134207

Ion	Ratio	Lower	Upper
113	100		
111	103.7	80.1	120.1
192	16.1	13.1	19.7

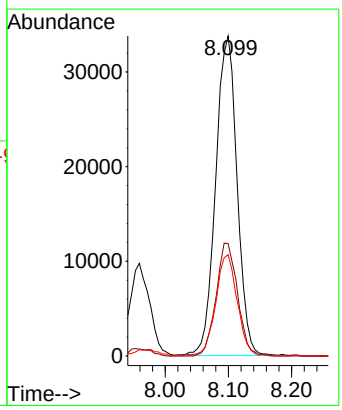


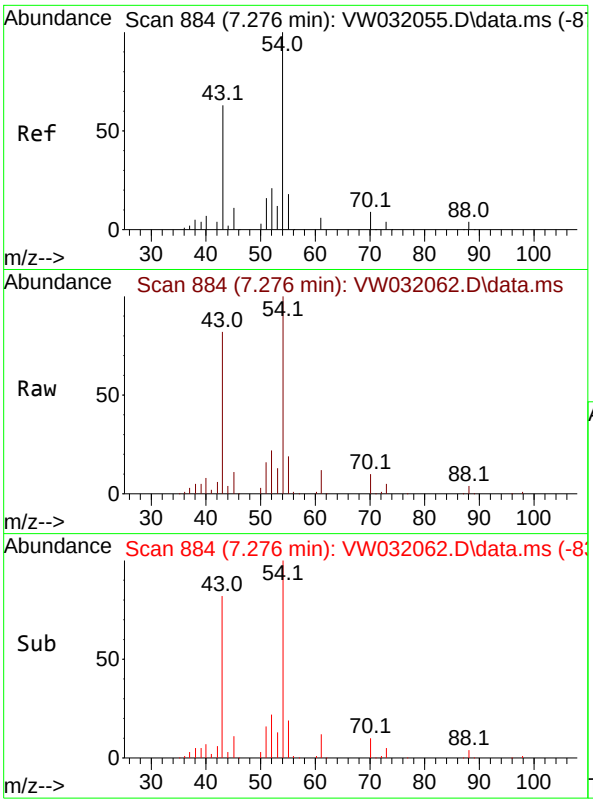


#36
1,1-Dichloropropene
Concen: 19.708 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 79280

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.4	52.2
77	31.9	24.7	37.1



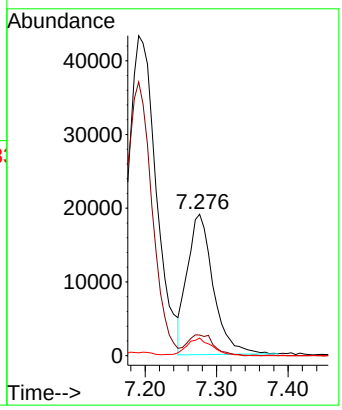


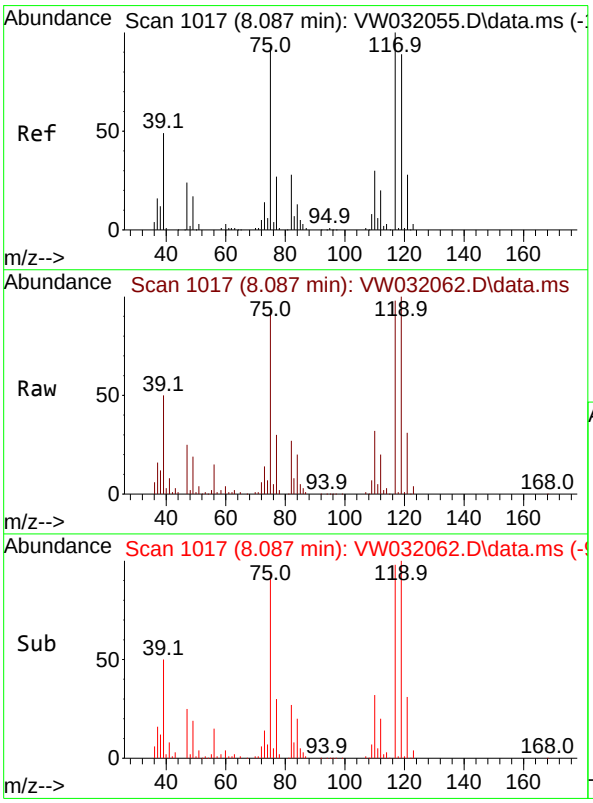
#37
Ethyl Acetate
Concen: 20.284 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 43 Resp: 48057

Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.8	17.6
70	12.2	9.4	14.0

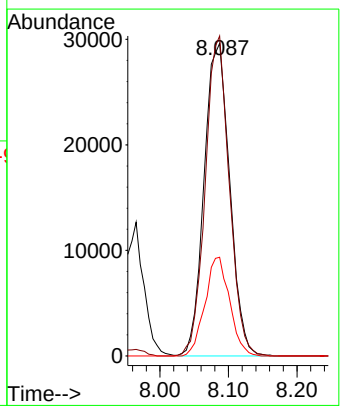


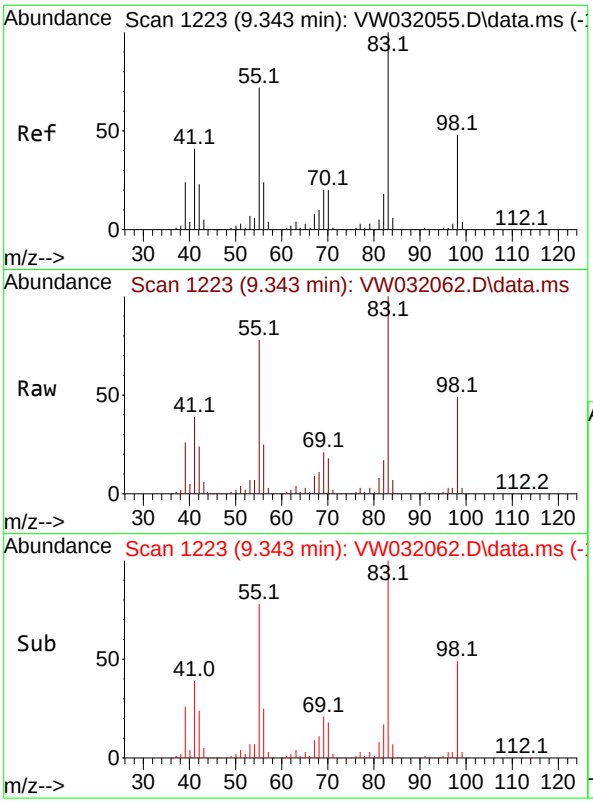


#38
Carbon Tetrachloride
Concen: 19.825 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 76962

Ion	Ratio	Lower	Upper
117	100		
119	102.4	71.4	107.2
121	31.6	22.3	33.5



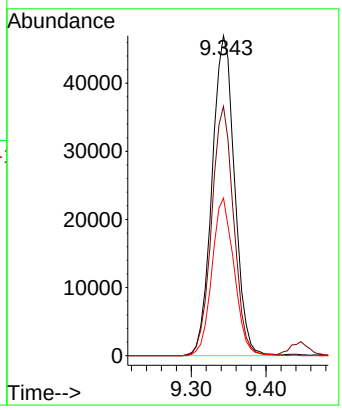


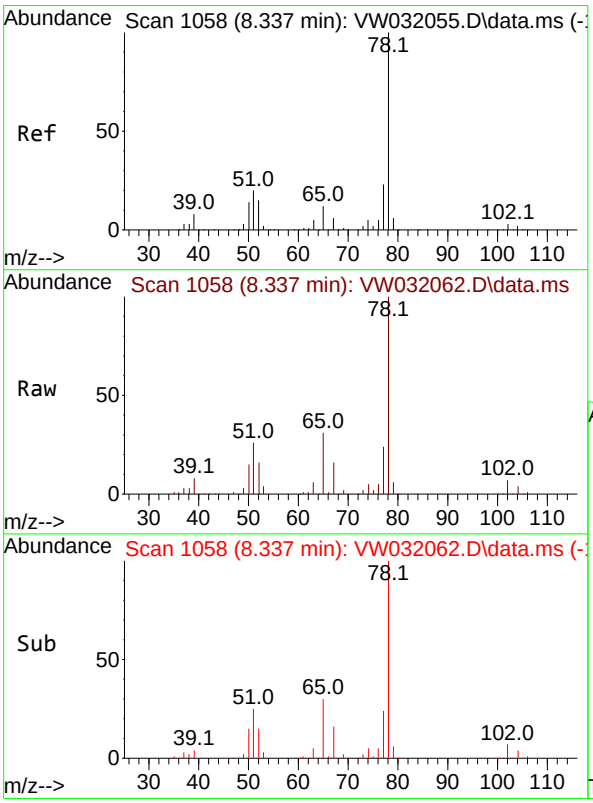
#39
Methylcyclohexane
Concen: 20.117 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 83 Resp: 98634

Ion	Ratio	Lower	Upper
83	100		
55	77.9	57.9	86.9
98	49.2	38.3	57.5

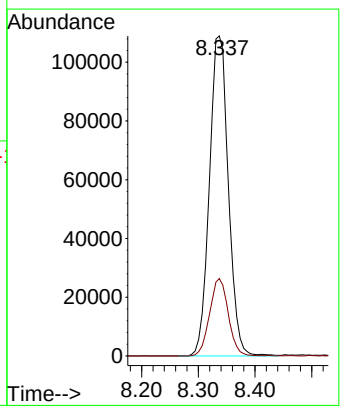


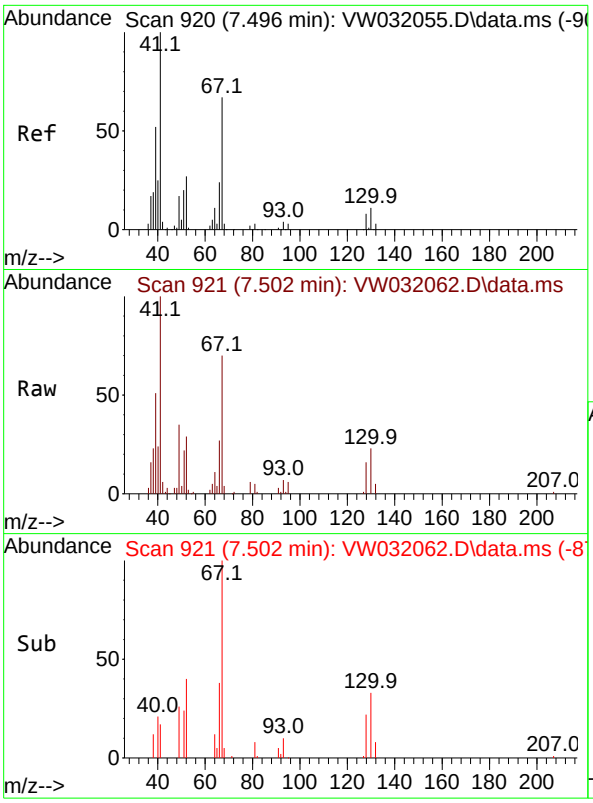


#40
Benzene
Concen: 20.229 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 78 Resp: 252942

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.4	27.6



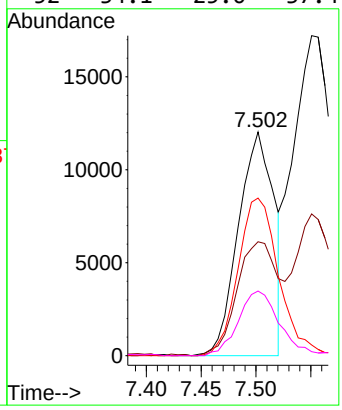


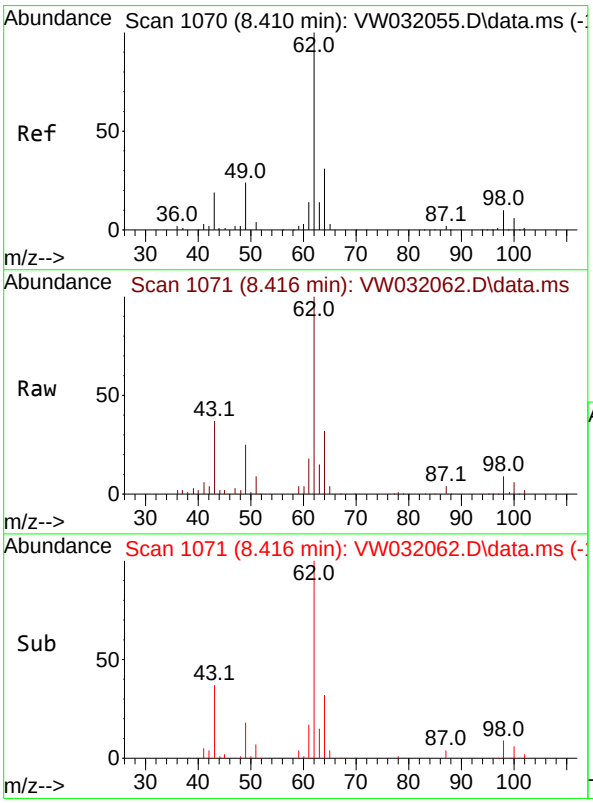
#41
Methacrylonitrile
Concen: 20.188 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 41 Resp: 27124

Ion	Ratio	Lower	Upper
41	100		
39	60.3	42.6	63.8
67	81.2	61.0	91.4
52	34.1	25.0	37.4

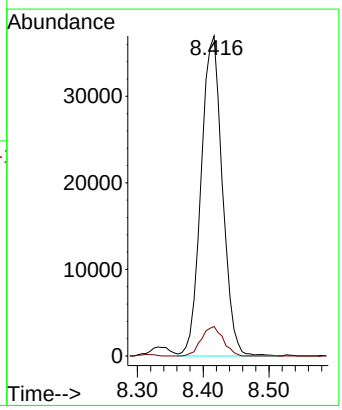


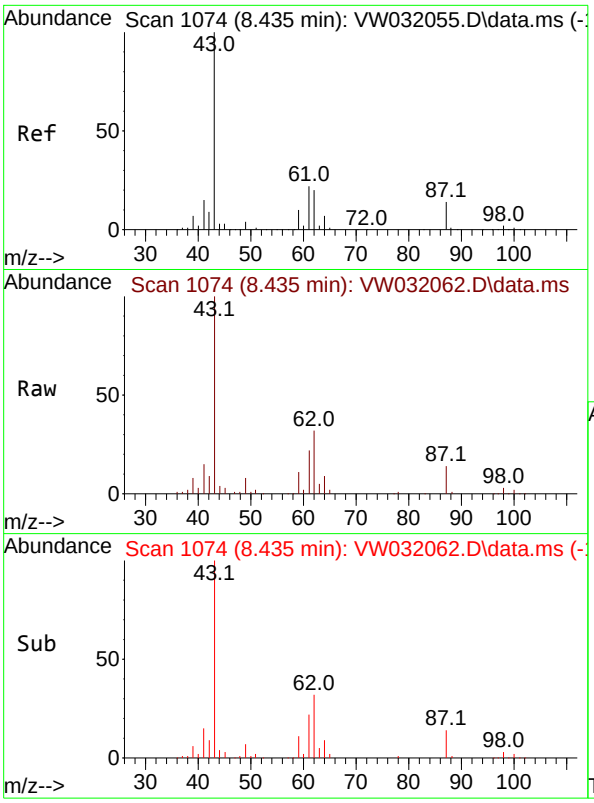


#42
1,2-Dichloroethane
Concen: 20.784 ug/l
RT: 8.416 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 83160

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	19.8



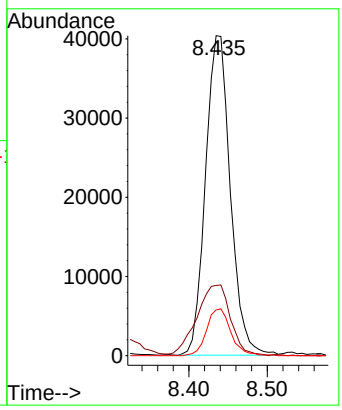


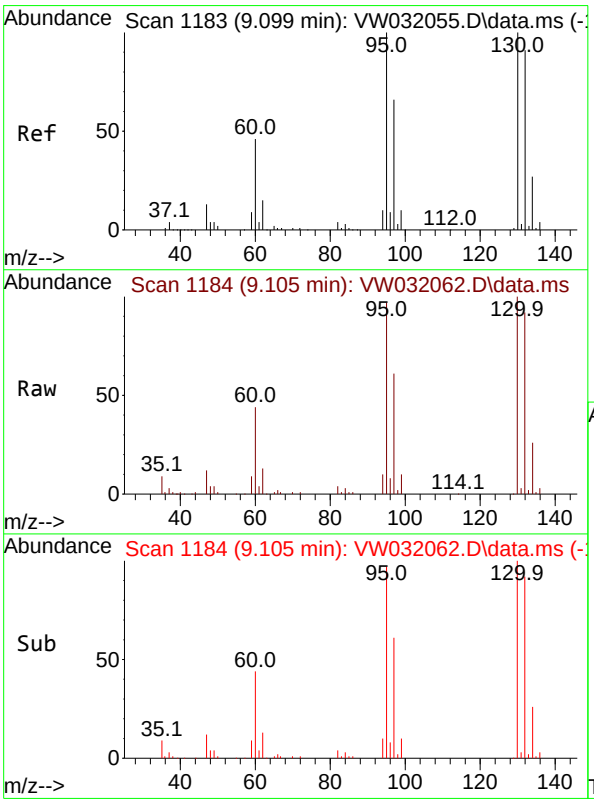
#43
Isopropyl Acetate
Concen: 20.393 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 43 Resp: 88890

Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.8	35.8
87	14.3	11.7	17.5

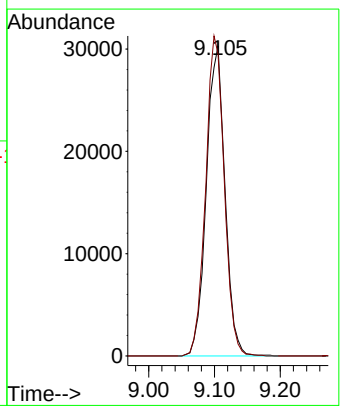


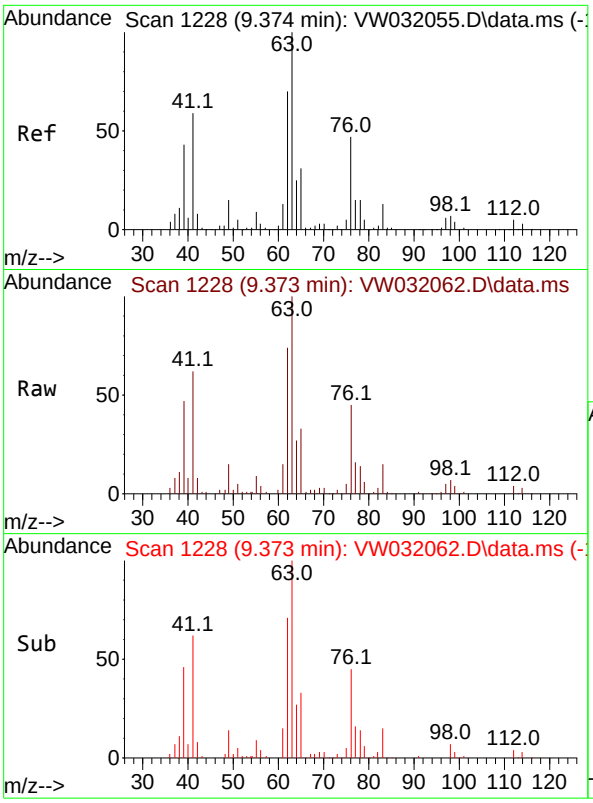


#44
Trichloroethene
Concen: 20.095 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:130 Resp: 59840

Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	200.6



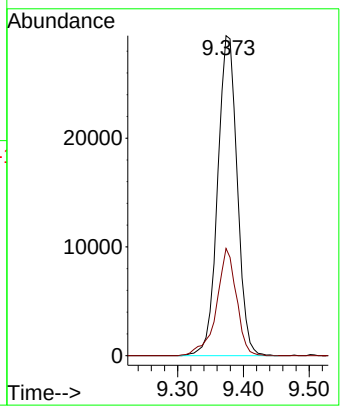


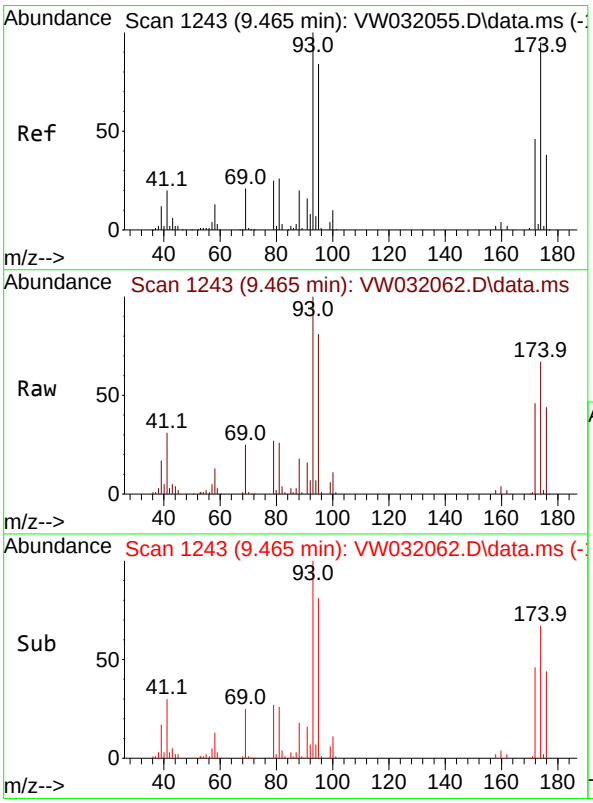
#45
1,2-Dichloropropane
Concen: 20.135 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 63 Resp: 60825

Ion	Ratio	Lower	Upper
63	100		
65	33.5	24.6	36.8

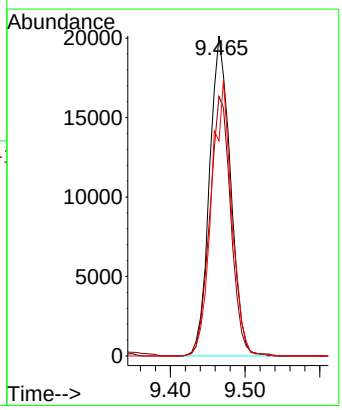


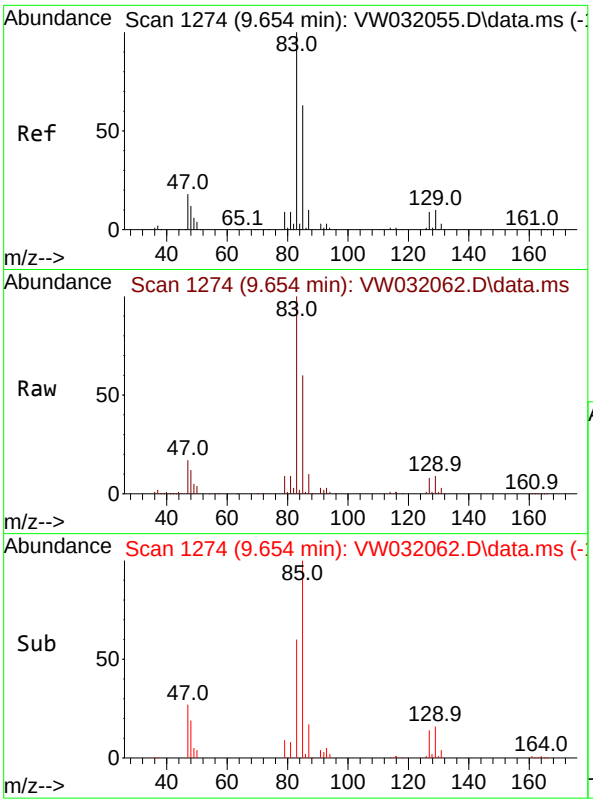


#46
Dibromomethane
Concen: 20.151 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 93 Resp: 39289

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.3	97.9
174	83.3	68.6	102.8



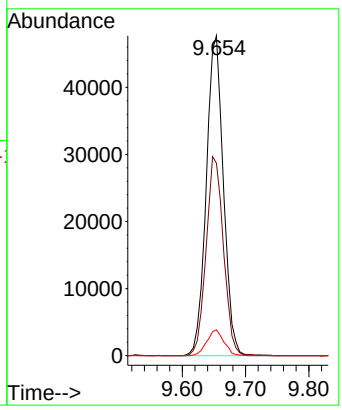


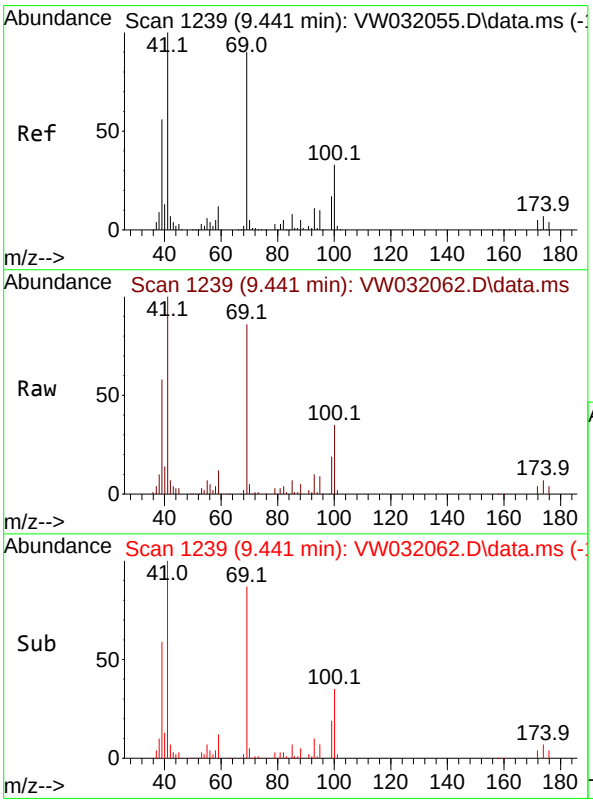
#47
Bromodichloromethane
Concen: 19.980 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 83 Resp: 89761

Ion	Ratio	Lower	Upper
83	100		
85	60.2	50.6	75.8
127	8.1	6.9	10.3

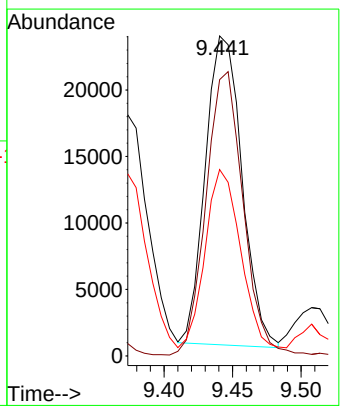


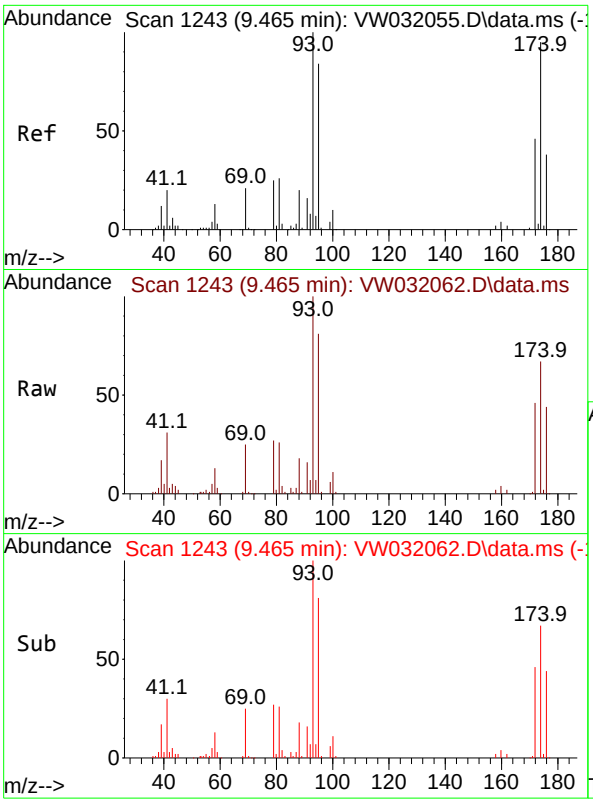


#48
Methyl methacrylate
Concen: 20.539 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 43222

Ion	Ratio	Lower	Upper
41	100		
69	93.2	73.0	109.6
39	56.3	45.0	67.4



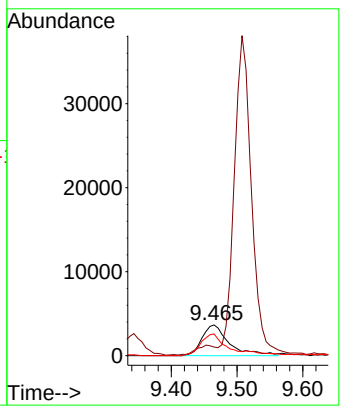


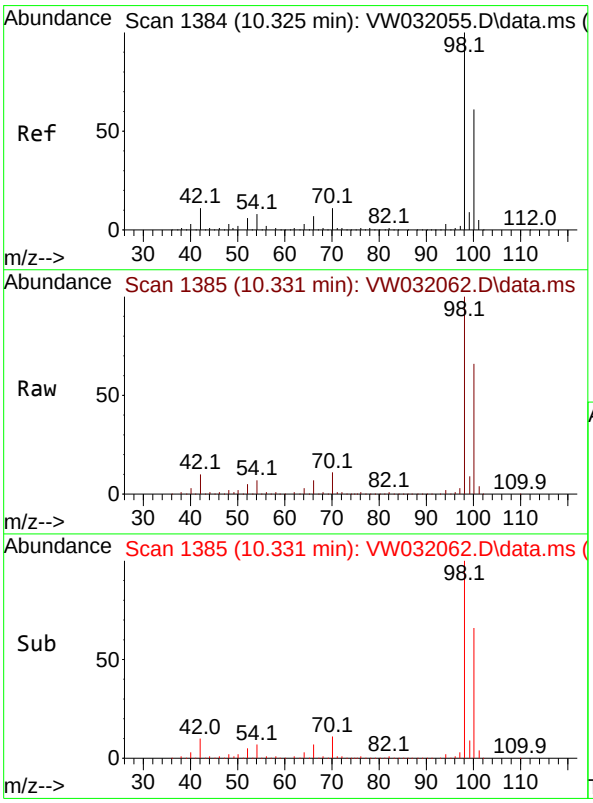
#49
1,4-Dioxane
Concen: 419.936 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 88 Resp: 10586

Ion	Ratio	Lower	Upper
88	100		
43	23.5	20.6	30.8
58	61.8	60.4	90.6

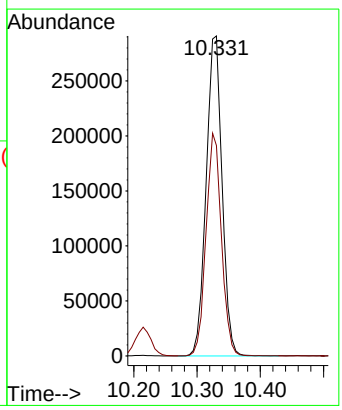


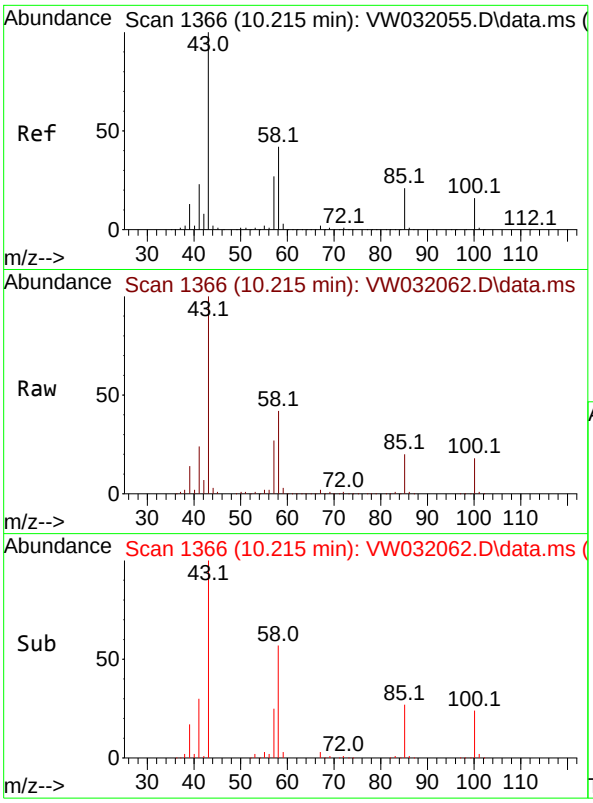


#50
Toluene-d8
Concen: 48.296 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 98 Resp: 509734

Ion	Ratio	Lower	Upper
98	100		
100	67.2	51.1	76.7



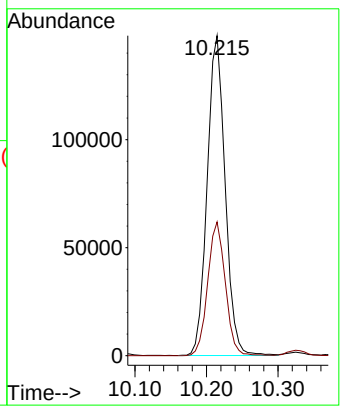


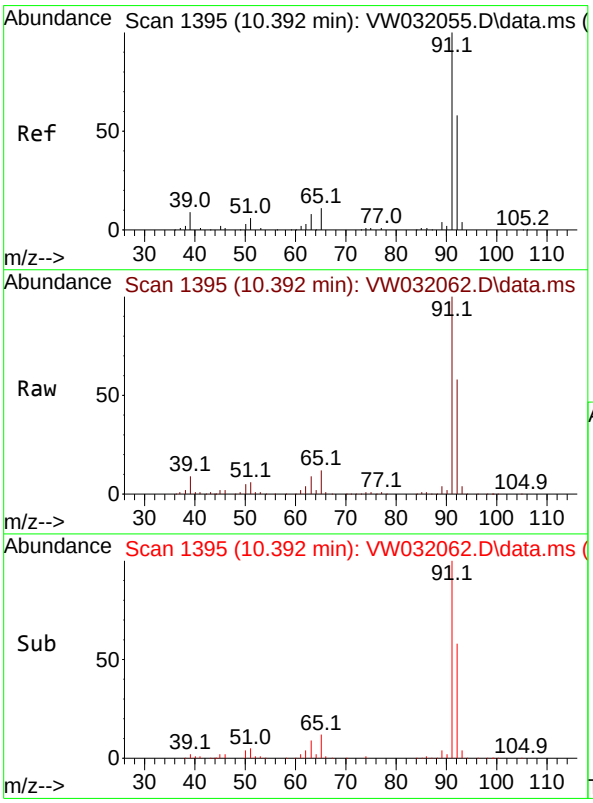
#51
4-Methyl-2-Pentanone
Concen: 104.852 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 43 Resp: 257970

Ion	Ratio	Lower	Upper
43	100		
58	41.1	33.1	49.7

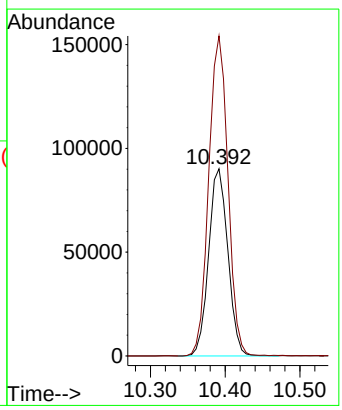


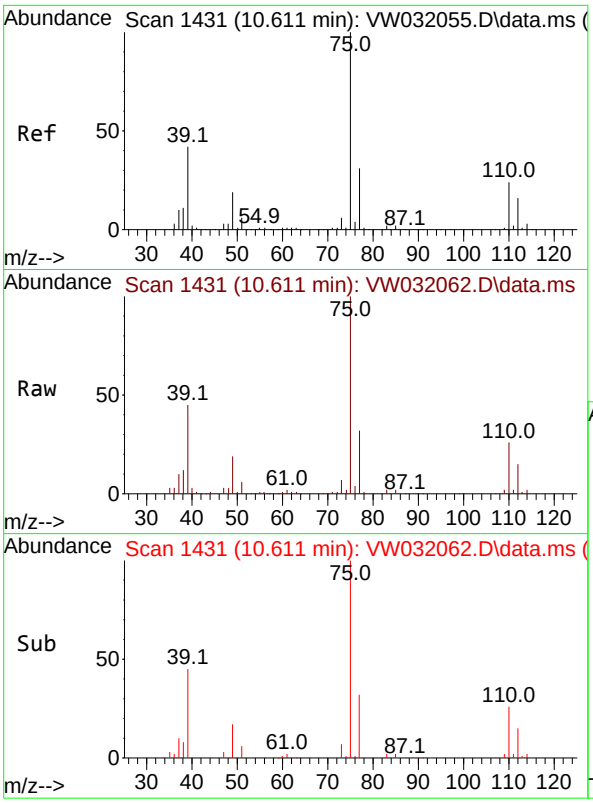


#52
Toluene
Concen: 20.465 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 92 Resp: 161185

Ion	Ratio	Lower	Upper
92	100		
91	170.9	136.3	204.5



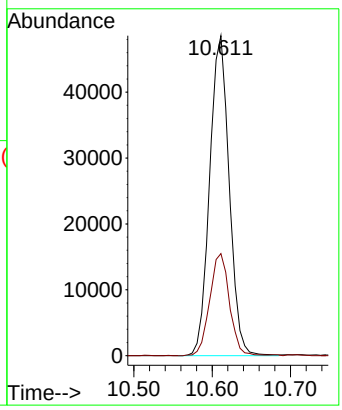


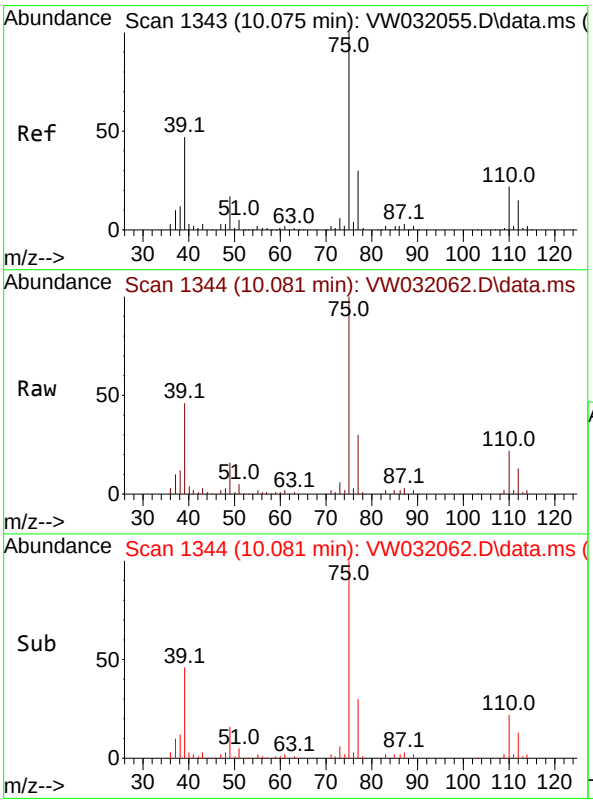
#53
t-1,3-Dichloropropene
Concen: 19.991 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 75 Resp: 84143

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6

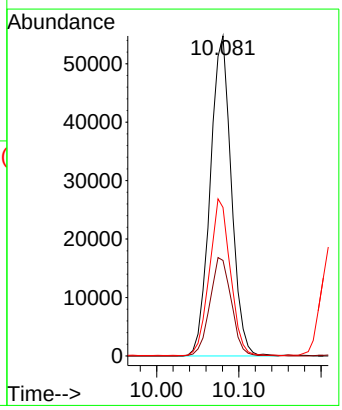


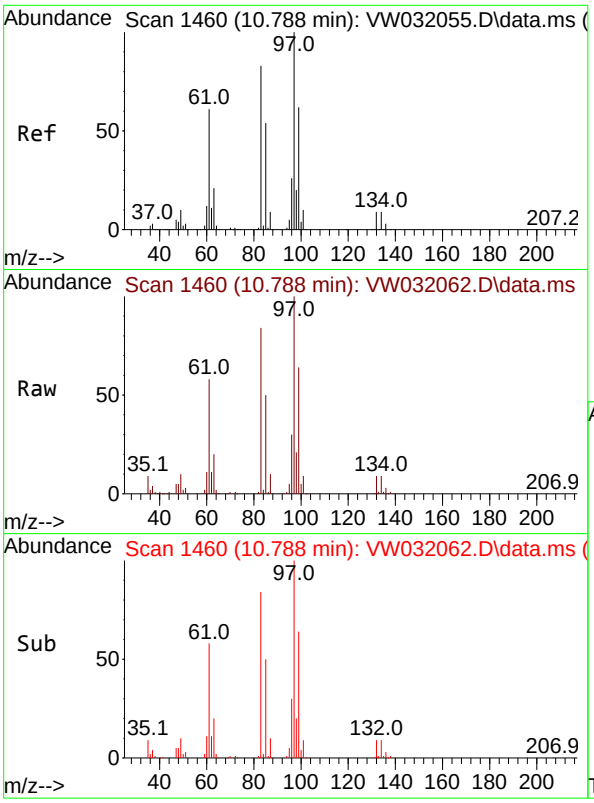


#54
cis-1,3-Dichloropropene
Concen: 20.444 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 97621

Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.0	36.0
39	46.2	37.8	56.8



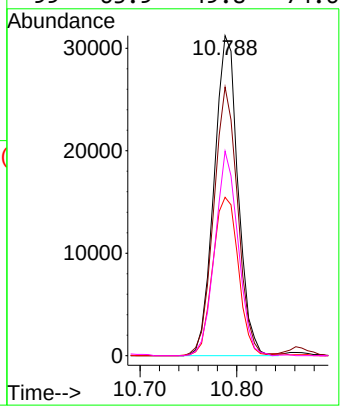


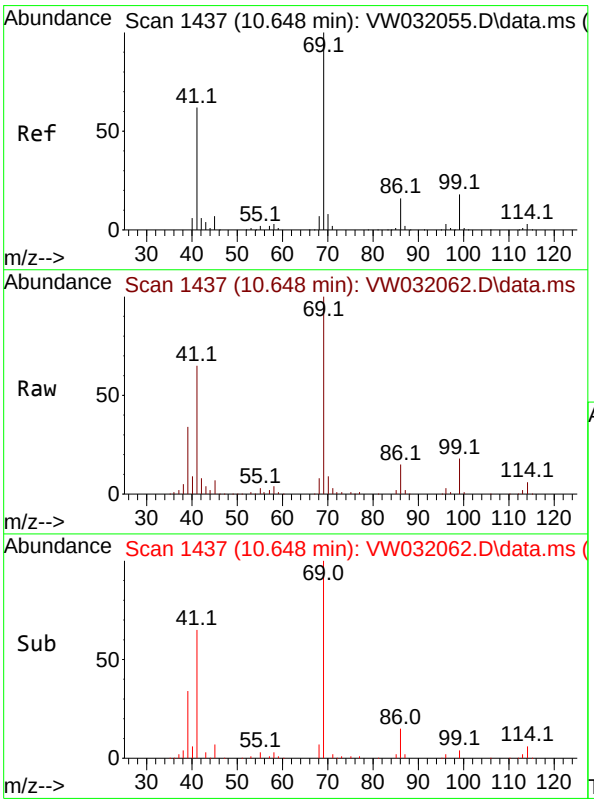
#55
1,1,2-Trichloroethane
Concen: 20.722 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 97 Resp: 53687

Ion	Ratio	Lower	Upper
97	100		
83	84.0	66.4	99.6
85	49.5	43.1	64.7
99	63.9	49.8	74.6

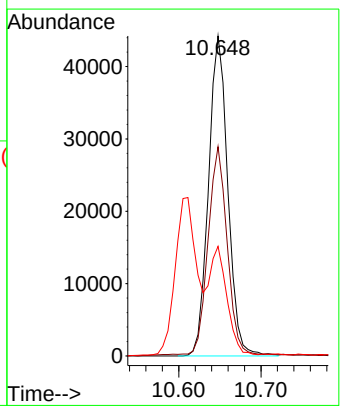


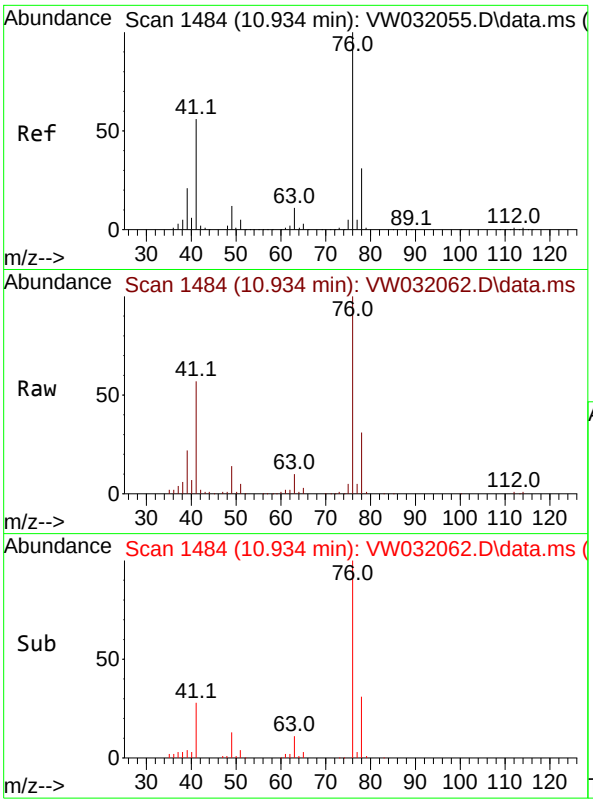


#56
Ethyl methacrylate
Concen: 20.854 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 69 Resp: 72299

Ion	Ratio	Lower	Upper
69	100		
41	66.8	51.2	76.8
39	31.4	25.4	38.0



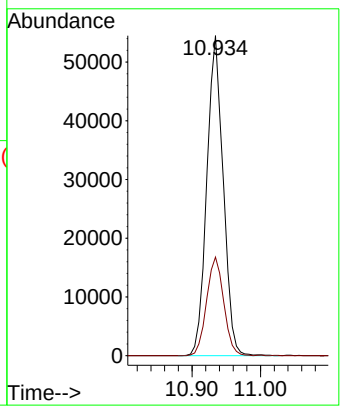


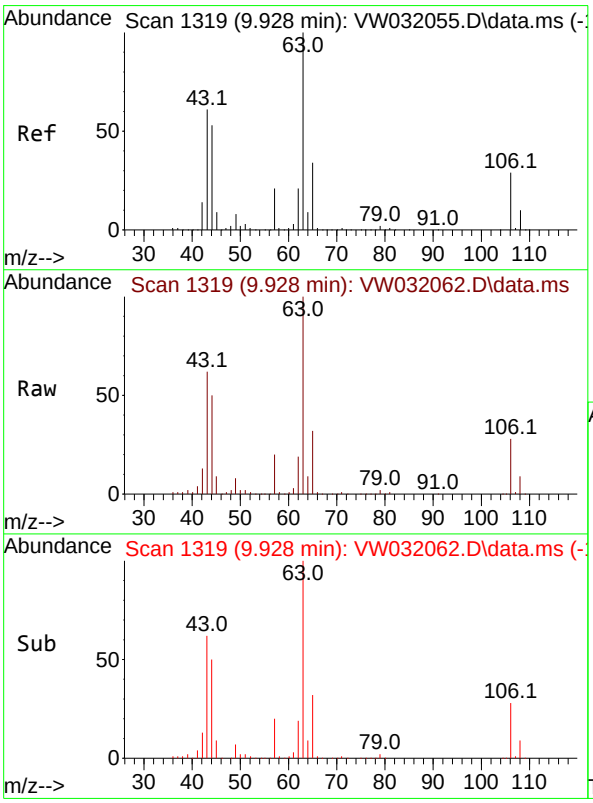
#57
1,3-Dichloropropane
Concen: 20.061 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 76 Resp: 90595

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.6

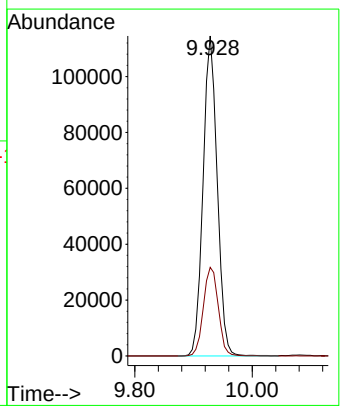


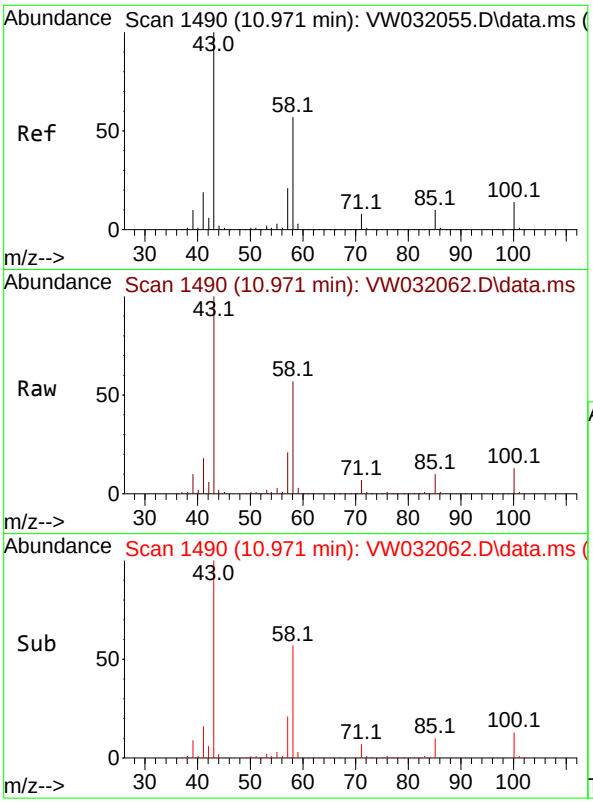


#58
2-Chloroethyl Vinyl ether
Concen: 100.139 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 192035

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.5	35.3



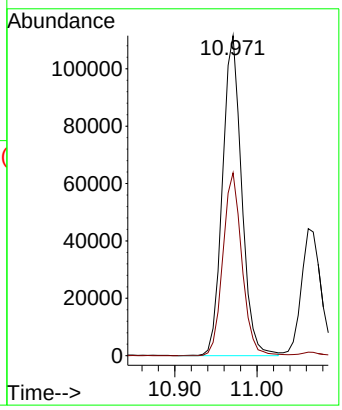


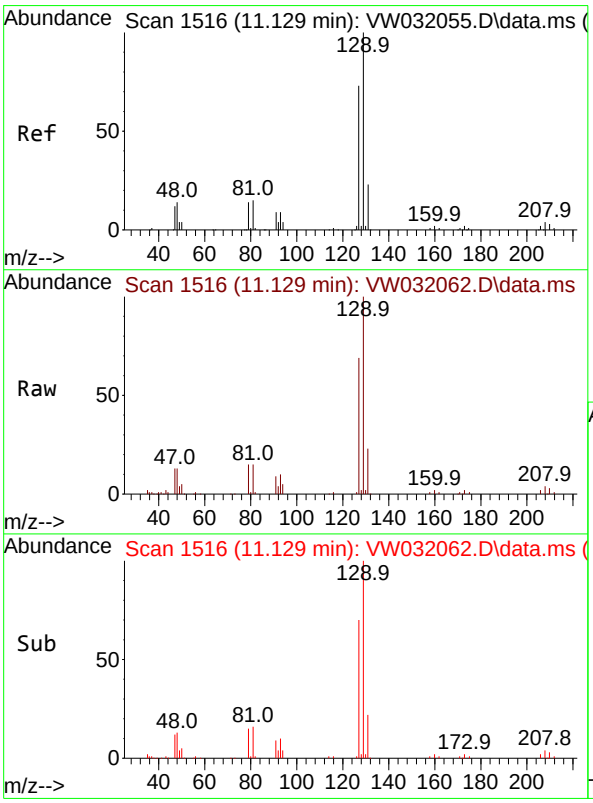
#59
2-Hexanone
Concen: 106.193 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 43 Resp: 180946

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0

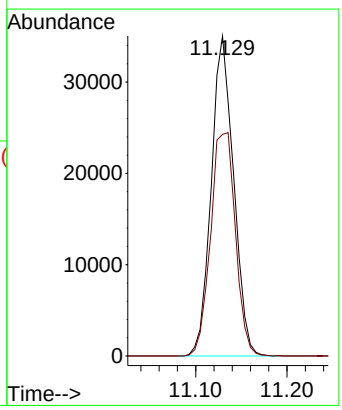


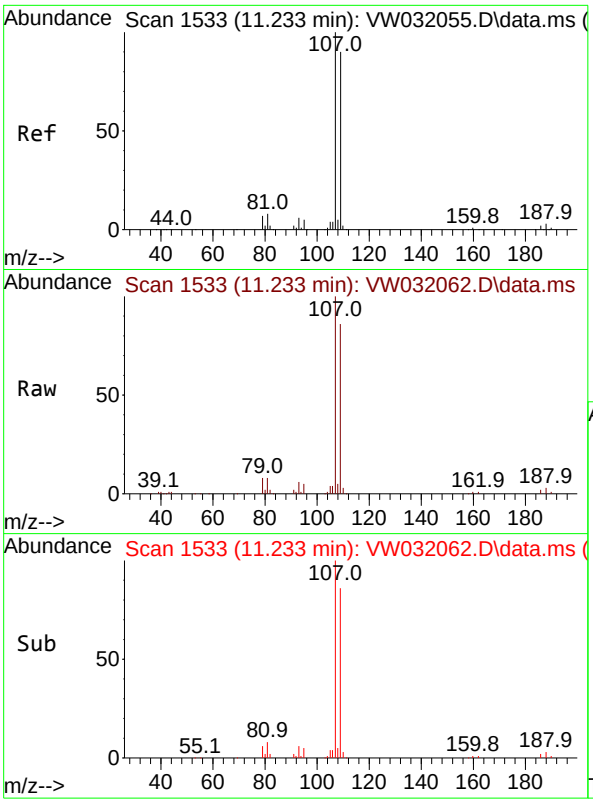


#60
Dibromochloromethane
Concen: 20.081 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:129 Resp: 59430

Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.0	116.9



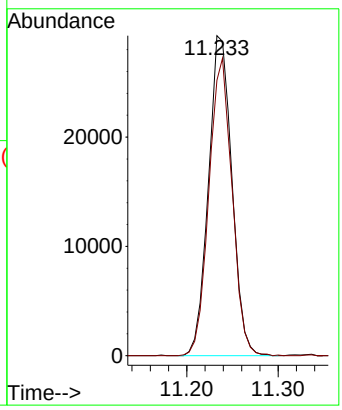


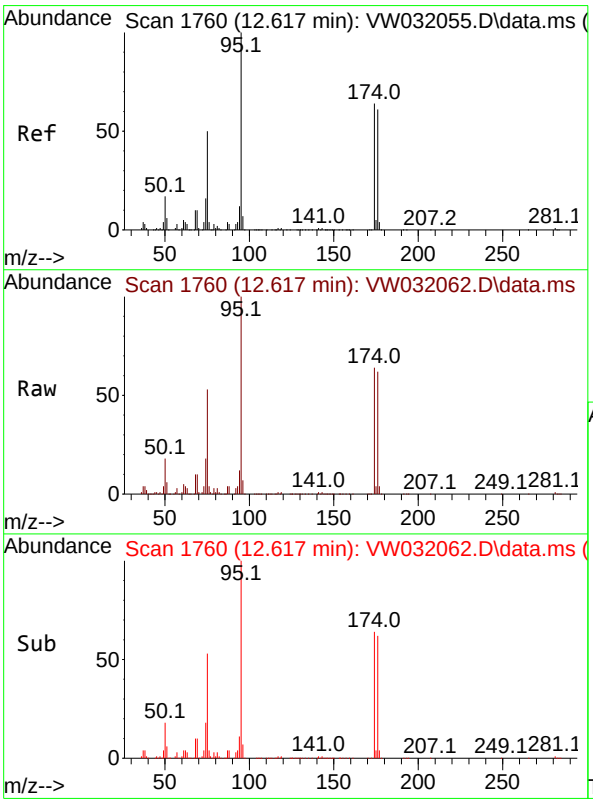
#61
1,2-Dibromoethane
Concen: 20.693 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:107 Resp: 52100

Ion	Ratio	Lower	Upper
107	100		
109	91.7	74.2	111.4

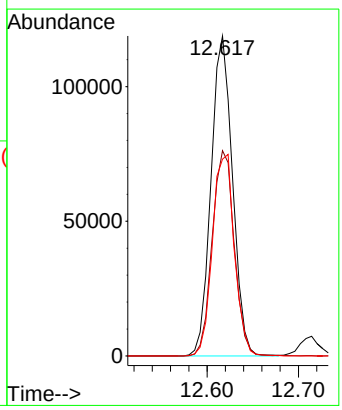


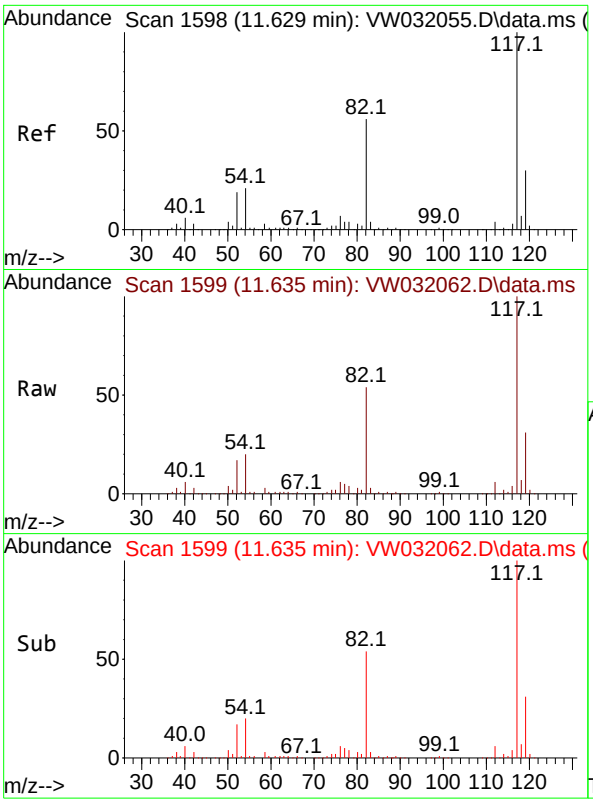


#62
4-Bromofluorobenzene
Concen: 49.782 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 95 Resp: 193625

Ion	Ratio	Lower	Upper
95	100		
174	65.9	0.0	129.0
176	64.6	0.0	124.6



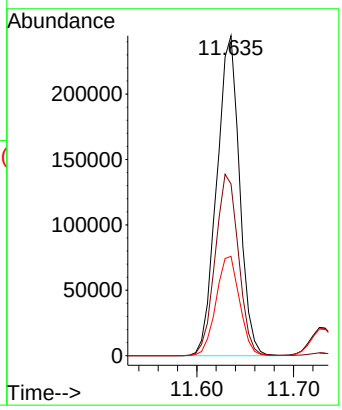


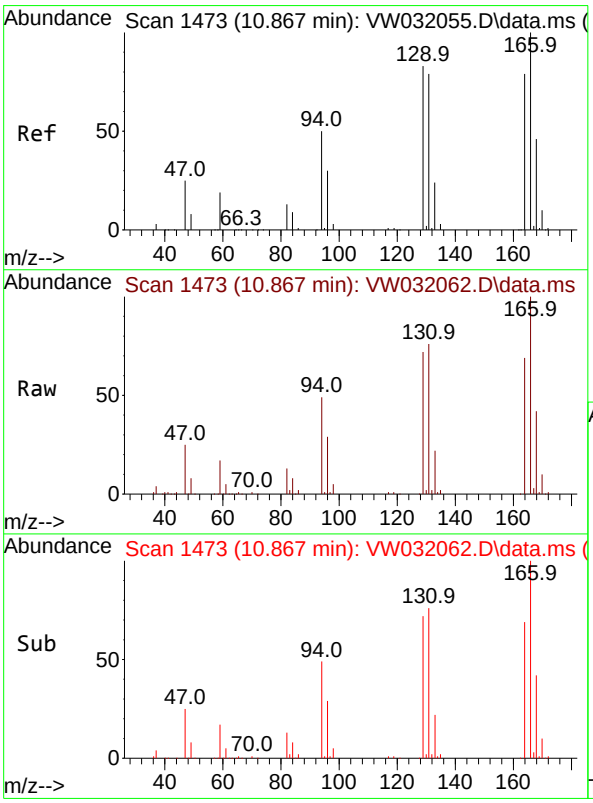
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:117 Resp: 400240

Ion	Ratio	Lower	Upper
117	100		
82	53.6	45.0	67.4
119	31.1	24.2	36.4

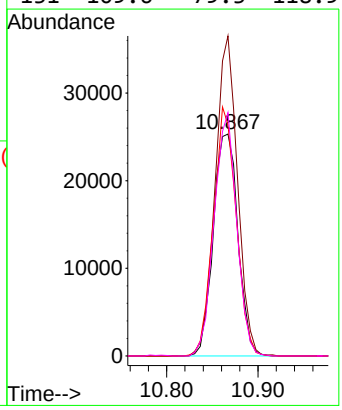


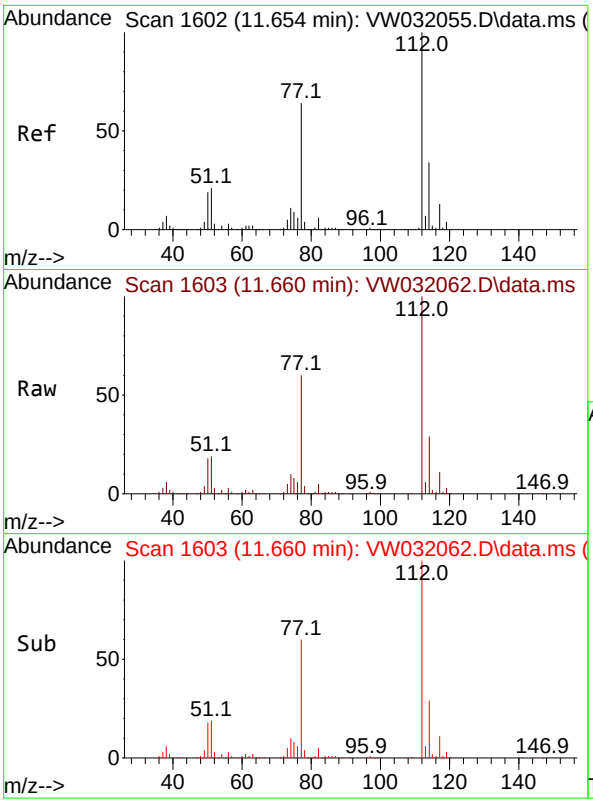


#64
Tetrachloroethene
Concen: 20.534 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:164 Resp: 47470

Ion	Ratio	Lower	Upper
164	100		
166	144.2	100.9	151.3
129	104.1	83.6	125.4
131	109.6	79.3	118.9



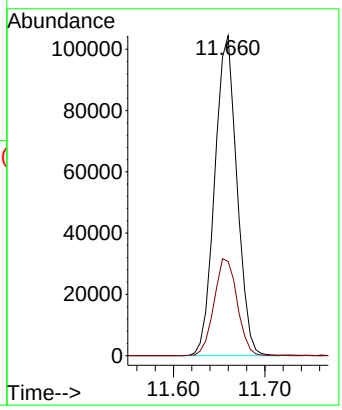


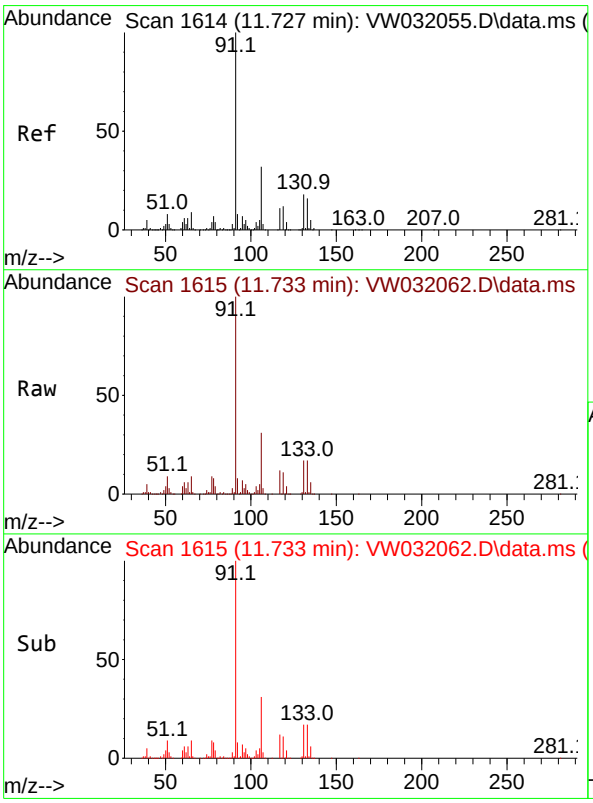
#65
Chlorobenzene
Concen: 20.247 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:112 Resp: 176392

Ion	Ratio	Lower	Upper
112	100		
114	29.5	26.9	40.3

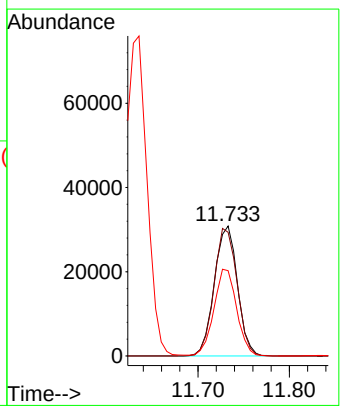


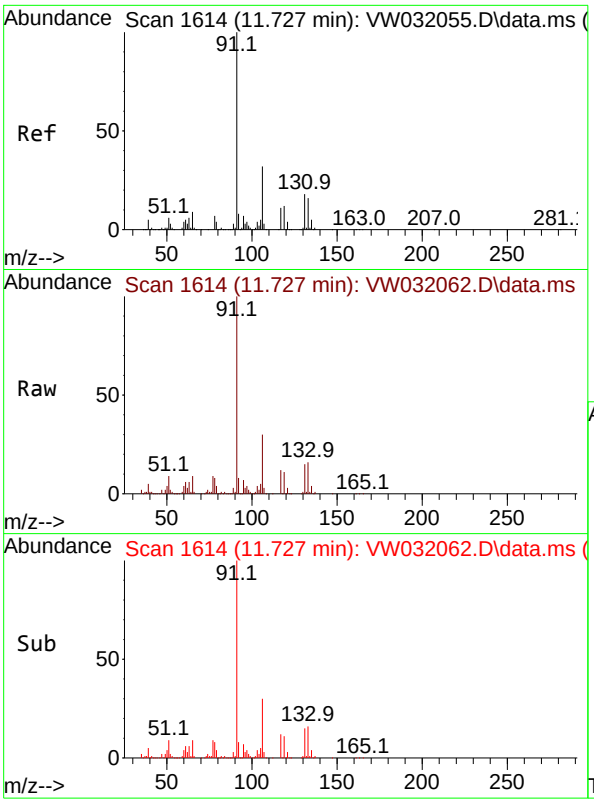


#66
1,1,1,2-Tetrachloroethane
Concen: 19.988 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:131 Resp: 54330

Ion	Ratio	Lower	Upper
131	100		
133	97.9	47.3	142.0
119	65.8	34.5	103.5



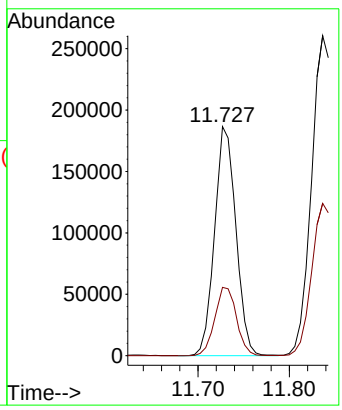


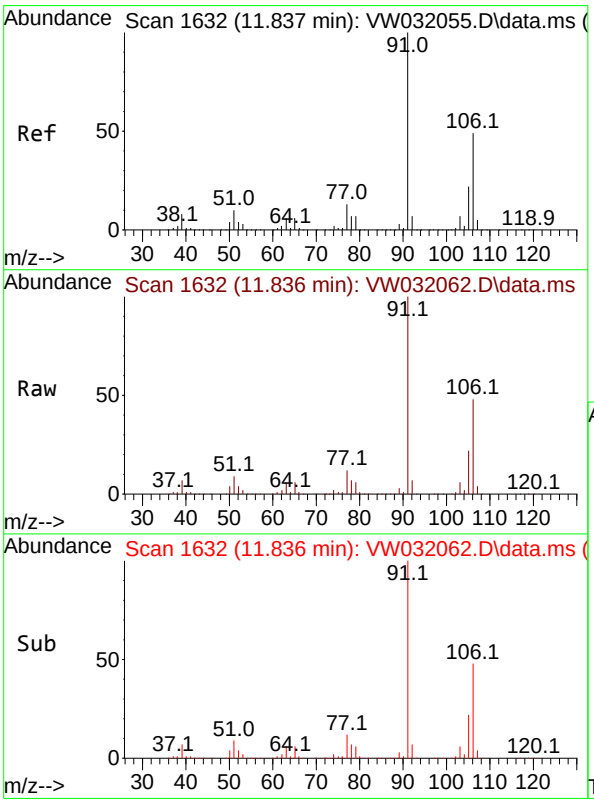
#67
Ethyl Benzene
Concen: 20.500 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 91 Resp: 302504

Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.4	38.0

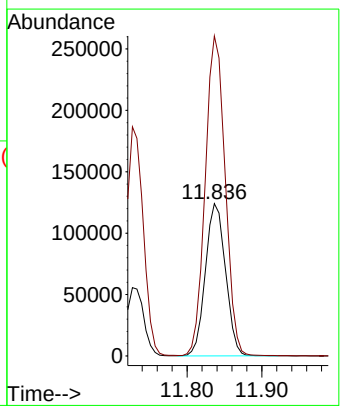


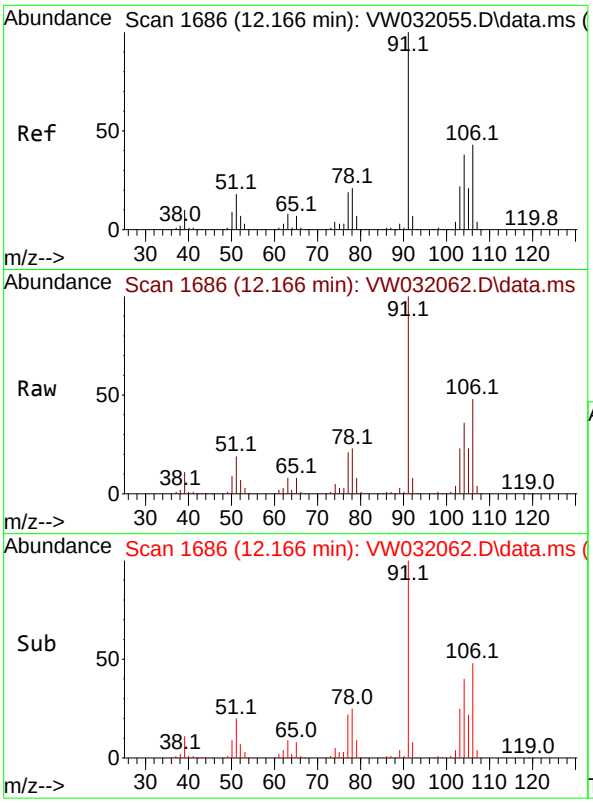


#68
m/p-Xylenes
Concen: 40.725 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:106 Resp: 231893

Ion	Ratio	Lower	Upper
106	100		
91	208.5	162.2	243.2



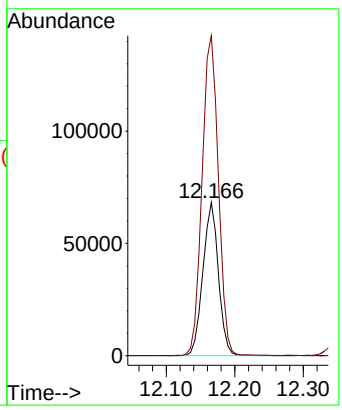


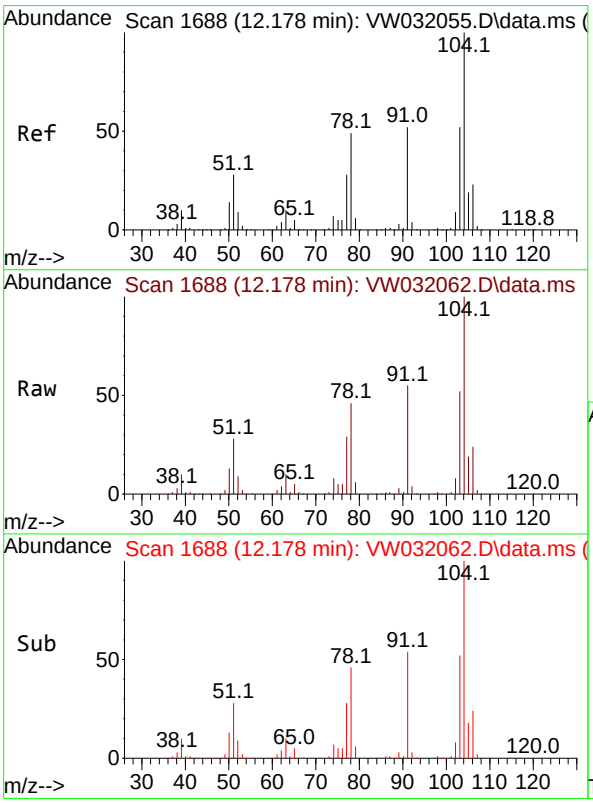
#69
o-Xylene
Concen: 20.434 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:106 Resp: 107543

Ion	Ratio	Lower	Upper
106	100		
91	220.1	110.8	332.3

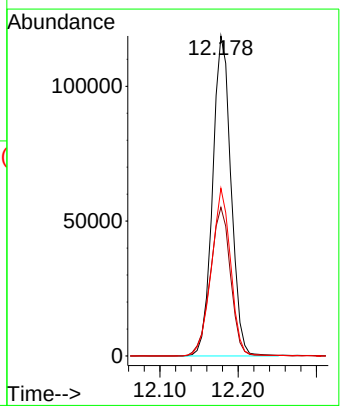


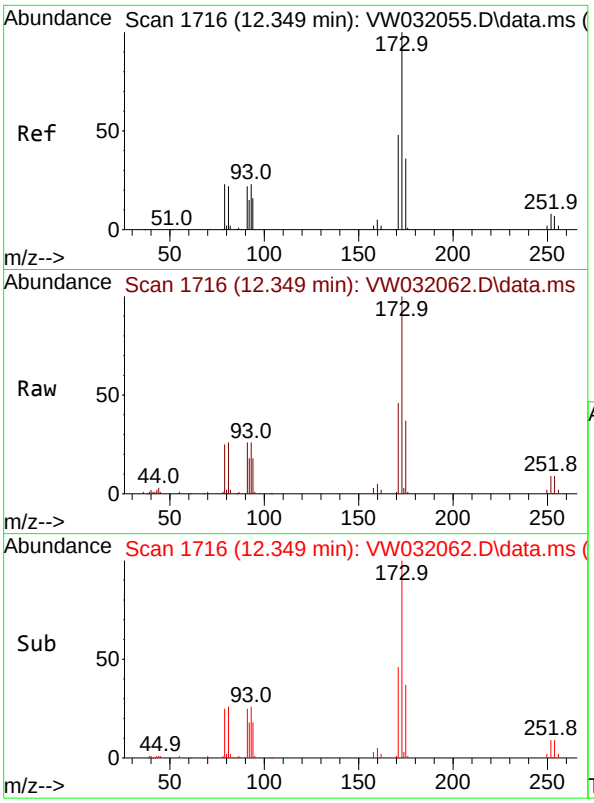


#70
Styrene
Concen: 20.761 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:104 Resp: 194078

Ion	Ratio	Lower	Upper
104	100		
78	51.2	41.2	61.8
103	54.8	43.8	65.8



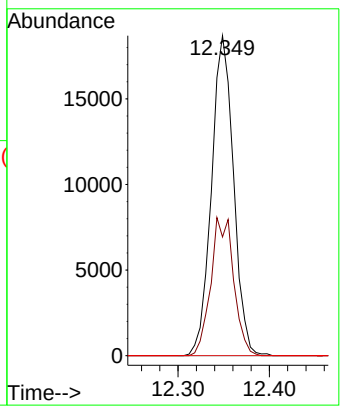


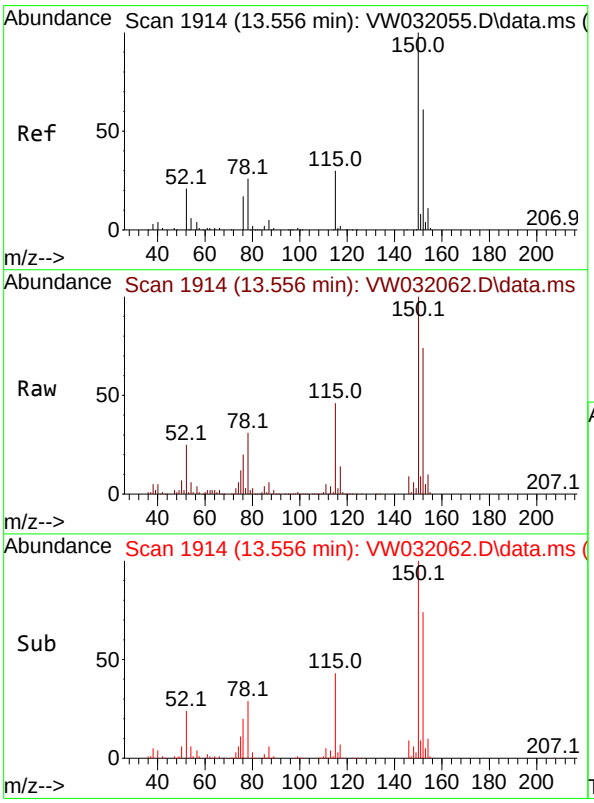
#71
Bromoform
Concen: 20.163 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:173 Resp: 31350

Ion	Ratio	Lower	Upper
173	100		
175	44.8	22.9	68.7
254	0.0	0.0	0.0

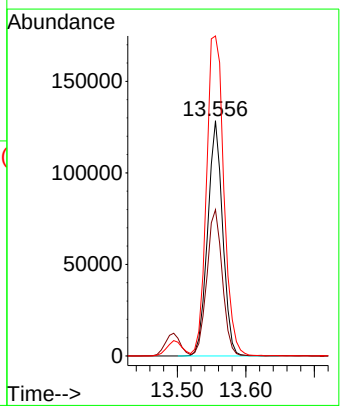


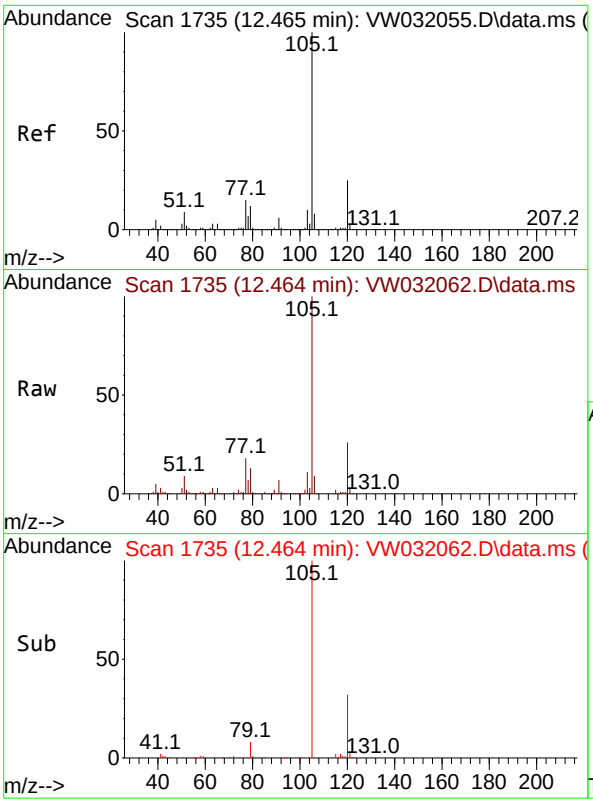


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:152 Resp: 195548

Ion	Ratio	Lower	Upper
152	100		
115	64.4	32.6	97.8
150	157.8	0.0	359.4



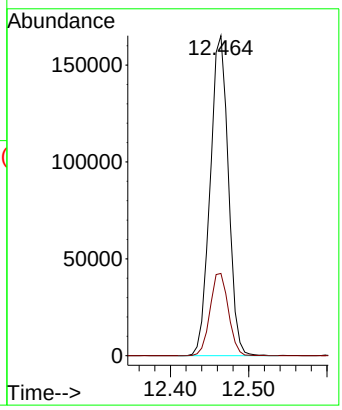


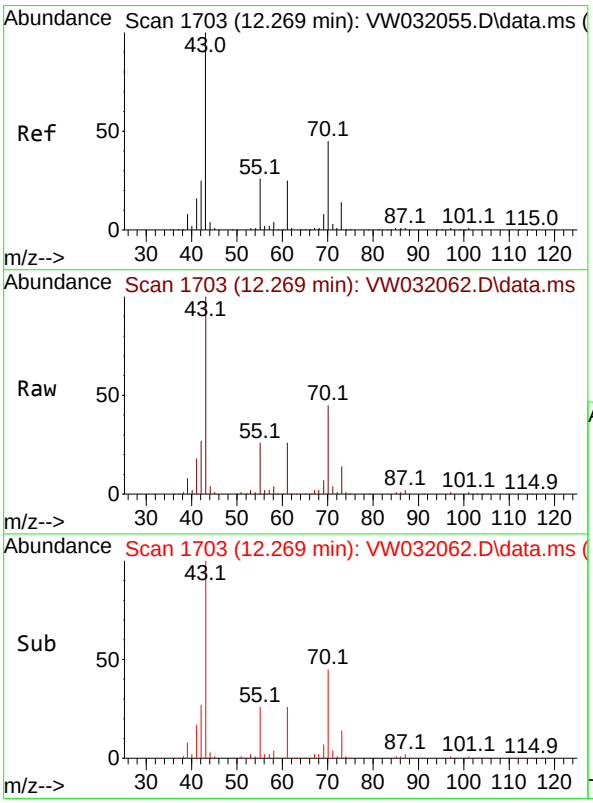
#73
Isopropylbenzene
Concen: 19.494 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:105 Resp: 266409

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4

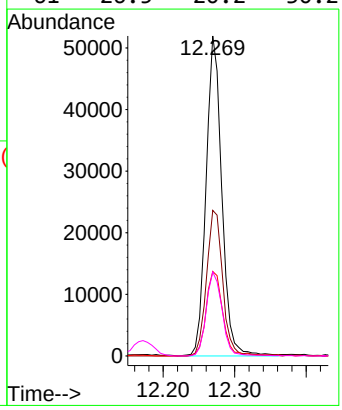


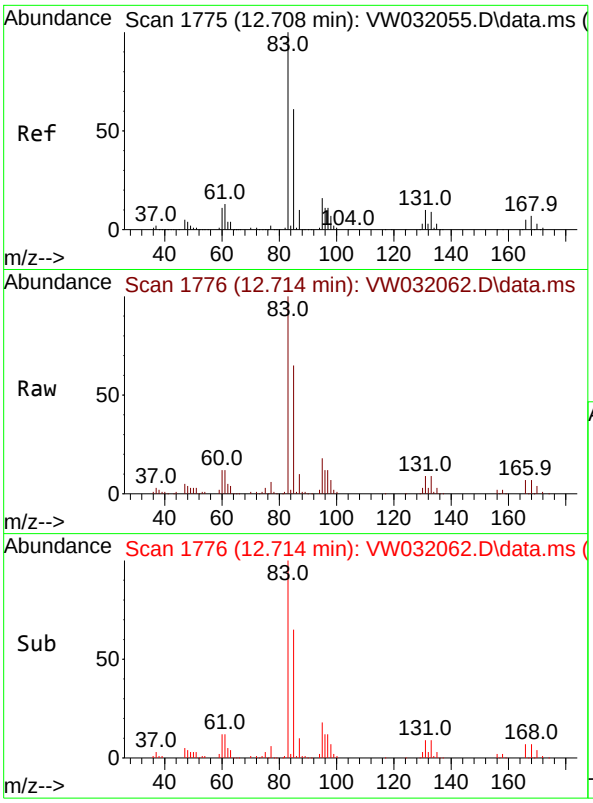


#74
N-amyl acetate
Concen: 20.275 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 79492

Ion	Ratio	Lower	Upper
43	100		
70	46.9	37.0	55.4
55	28.4	21.1	31.7
61	26.5	20.2	30.2



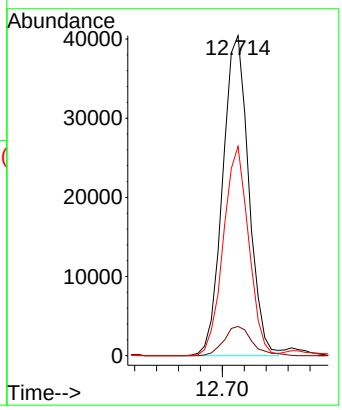


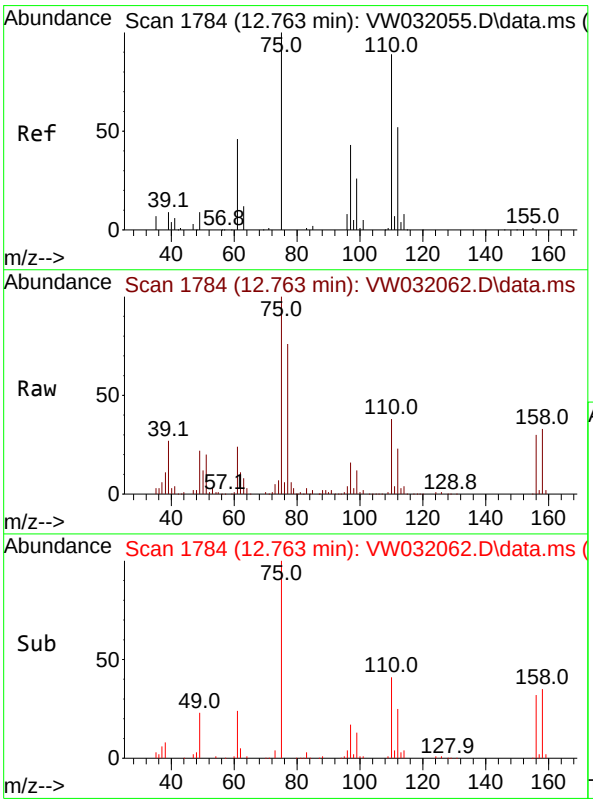
#75
1,1,2,2-Tetrachloroethane
Concen: 20.539 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 83 Resp: 66644

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	63.7	32.2	96.6

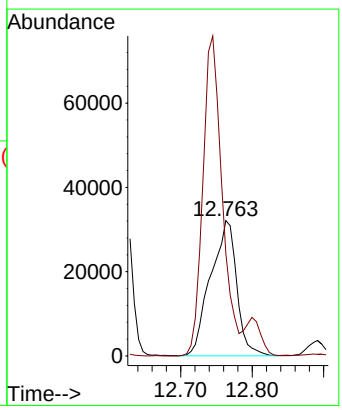


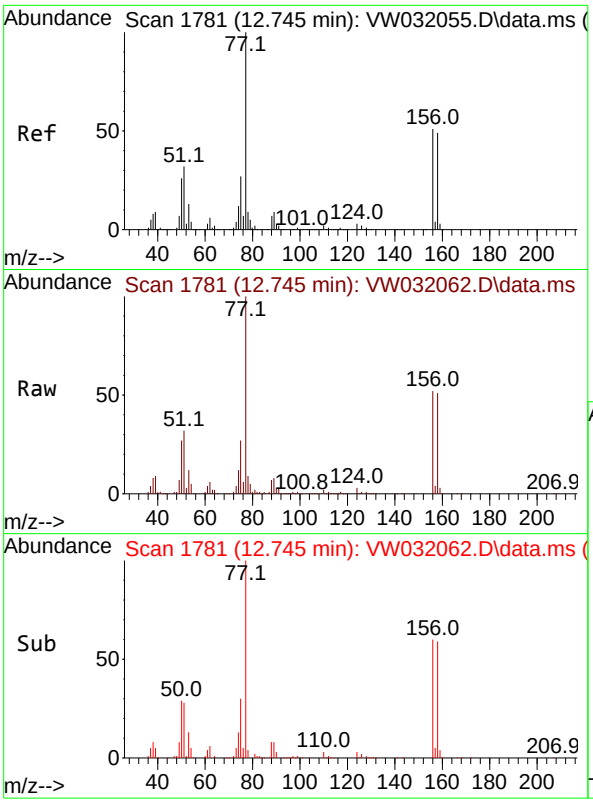


#76
1,2,3-Trichloropropane
Concen: 30.784 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 81702

Ion	Ratio	Lower	Upper
75	100		
77	174.0	123.5	370.5



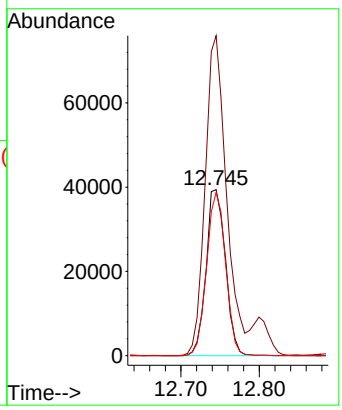


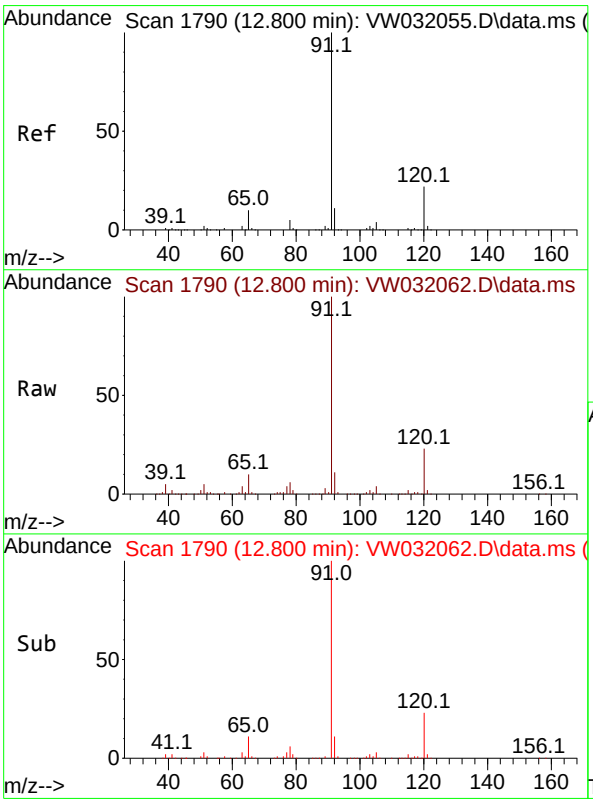
#77
Bromobenzene
Concen: 20.736 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:156 Resp: 67682

Ion	Ratio	Lower	Upper
156	100		
77	210.1	108.7	326.3
158	96.5	48.3	144.9

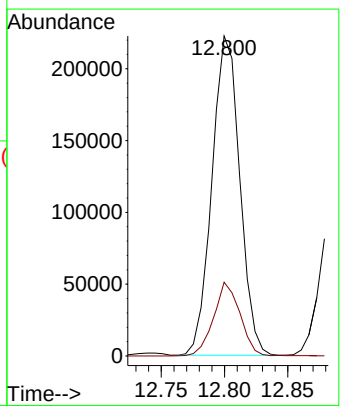


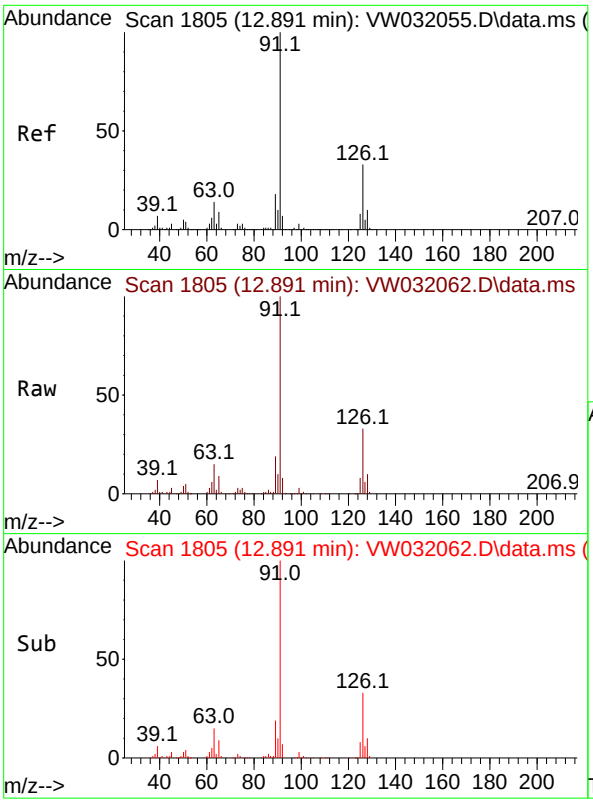


#78
n-propylbenzene
Concen: 20.228 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 340328

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3



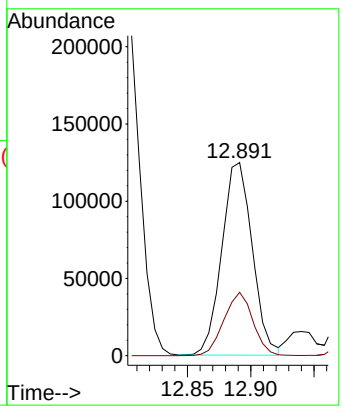


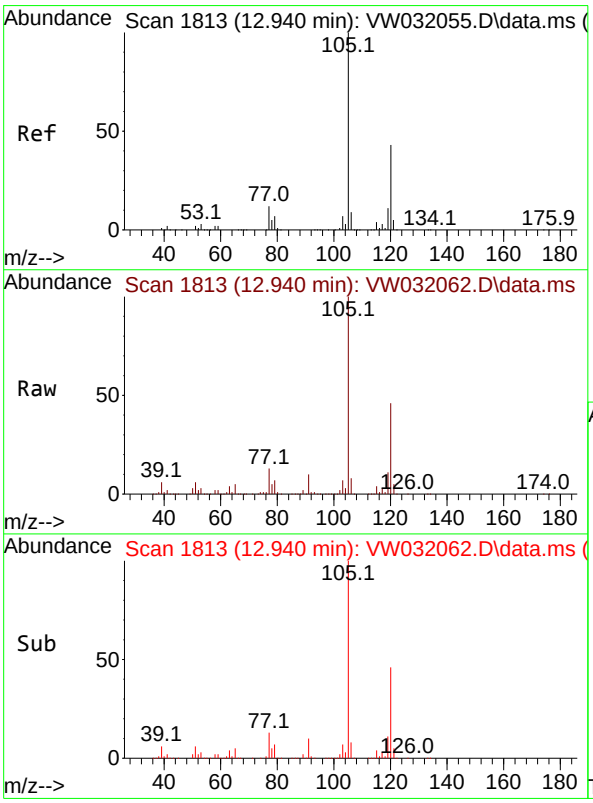
#79
2-Chlorotoluene
Concen: 20.142 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 91 Resp: 209148

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.9	47.7

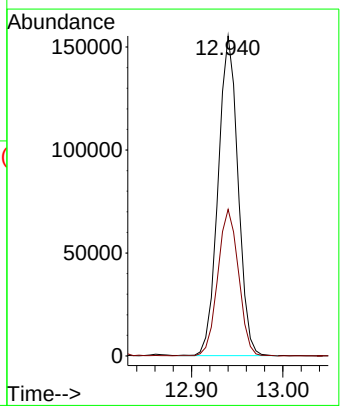


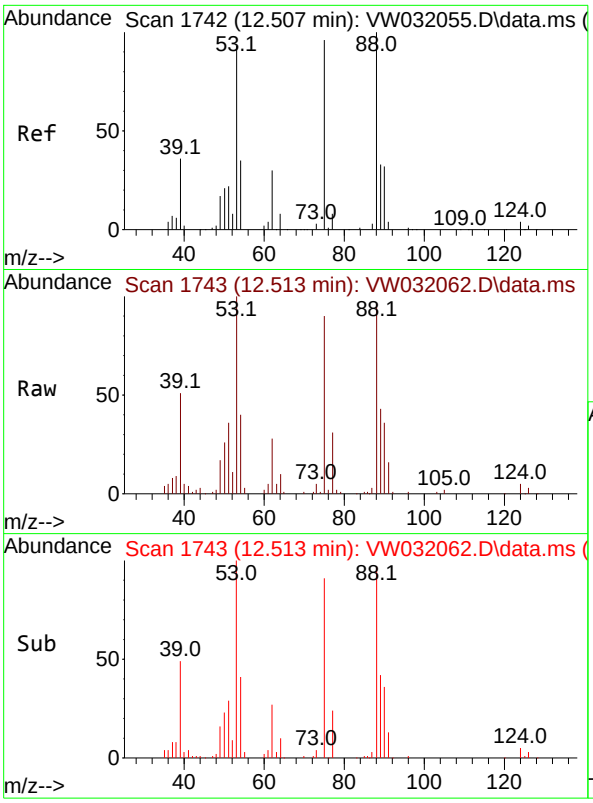


#80
1,3,5-Trimethylbenzene
Concen: 20.250 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 234936

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.4	70.0



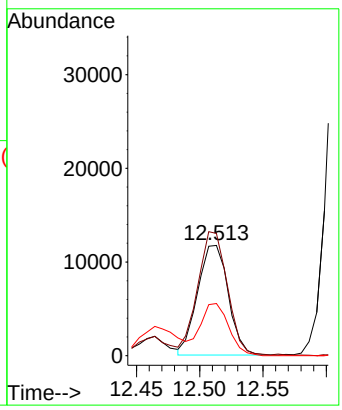


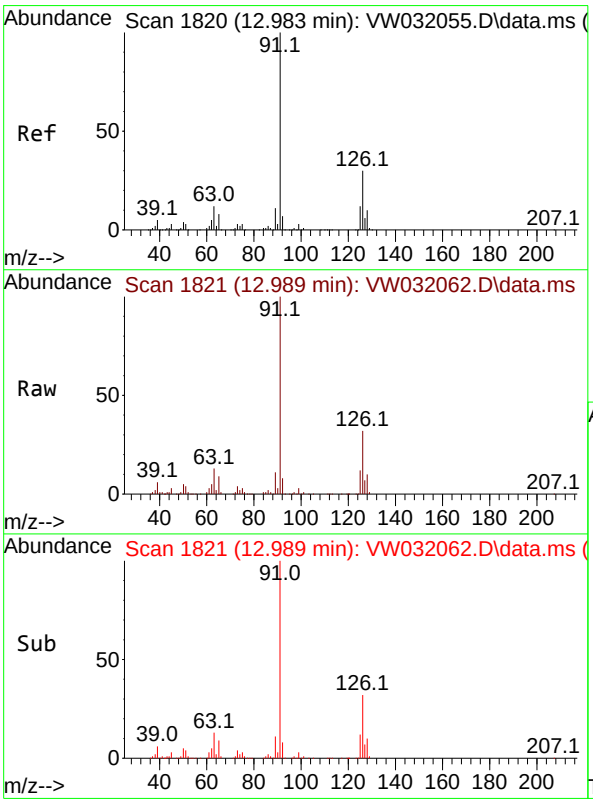
#81
trans-1,4-Dichloro-2-butene
Concen: 19.247 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 75 Resp: 19731

Ion	Ratio	Lower	Upper
75	100		
53	111.2	81.0	121.6
89	44.6	37.3	55.9

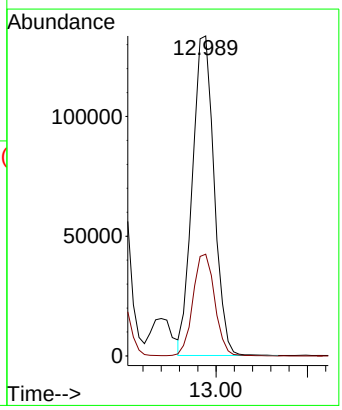


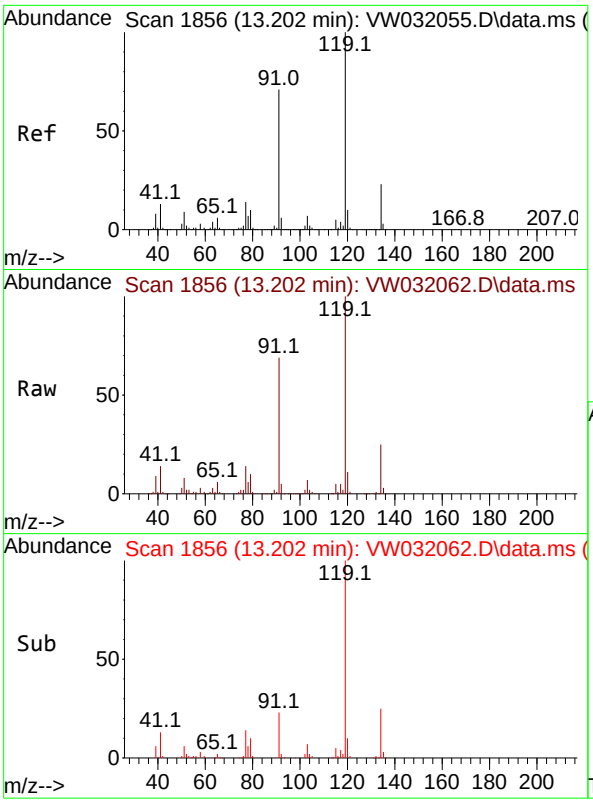


#82
4-Chlorotoluene
Concen: 19.946 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 220054

Ion	Ratio	Lower	Upper
91	100		
126	32.1	15.5	46.5



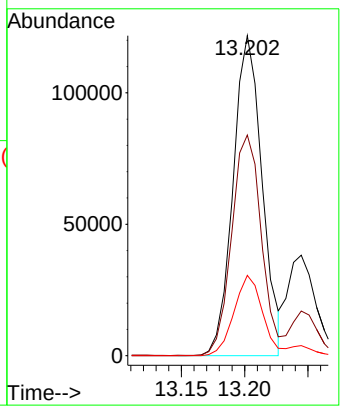


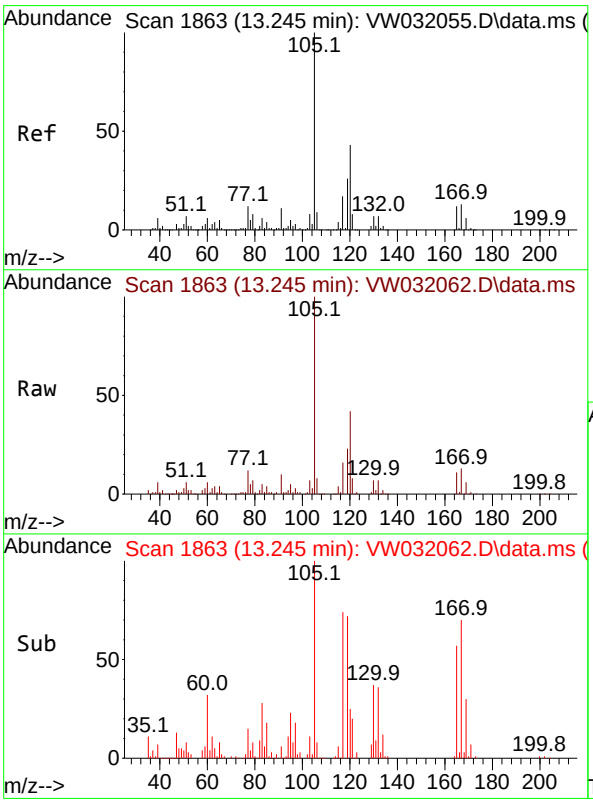
#83
tert-Butylbenzene
Concen: 20.213 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:119 Resp: 194628

Ion	Ratio	Lower	Upper
119	100		
91	70.1	35.3	105.9
134	24.9	12.1	36.3

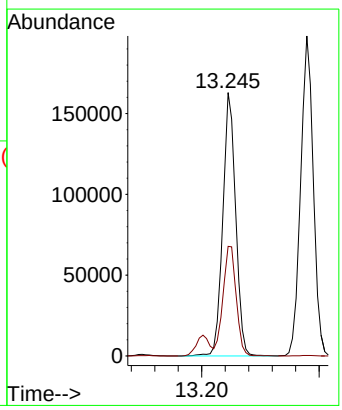


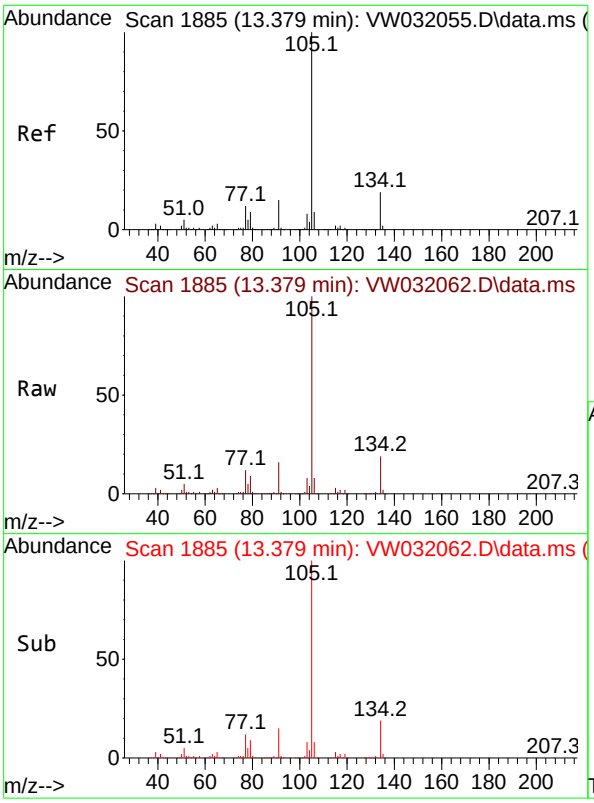


#84
1,2,4-Trimethylbenzene
Concen: 20.972 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 247687

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.6	64.8



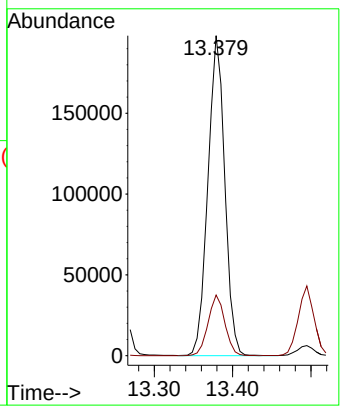


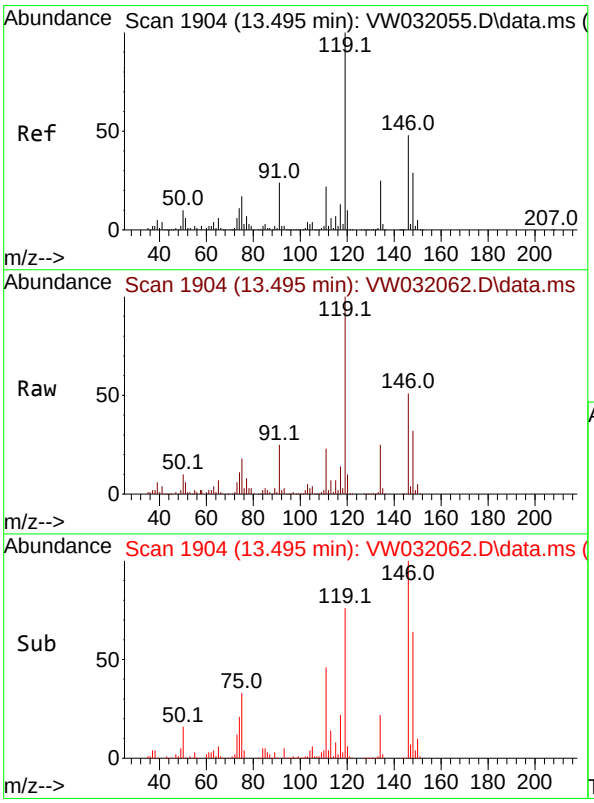
#85
sec-Butylbenzene
Concen: 20.297 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:105 Resp: 295479

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.9	29.7

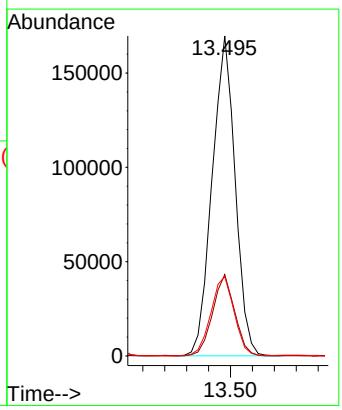


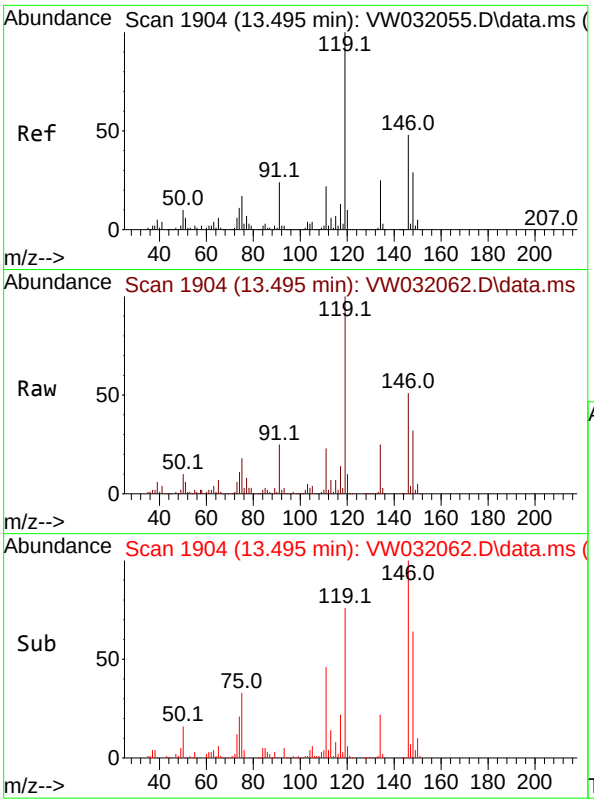


#86
p-Isopropyltoluene
Concen: 20.359 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:119 Resp: 247079

Ion	Ratio	Lower	Upper
119	100		
134	24.4	12.4	37.0
91	25.0	12.1	36.3



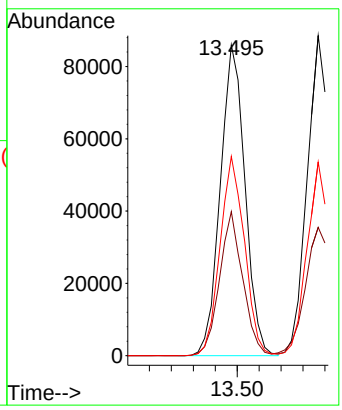


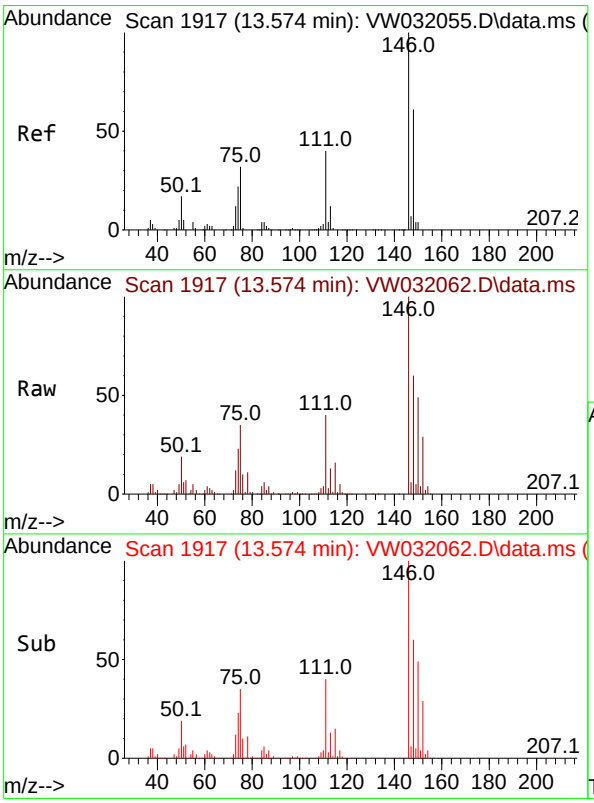
#87
1,3-Dichlorobenzene
Concen: 20.737 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:146 Resp: 134680

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.2	63.6
148	63.4	30.3	90.8

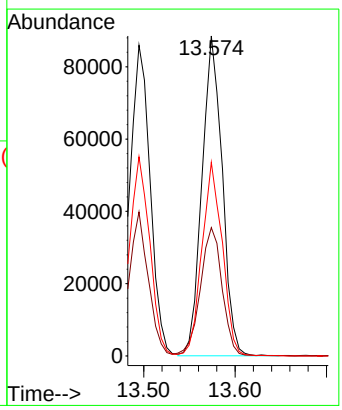


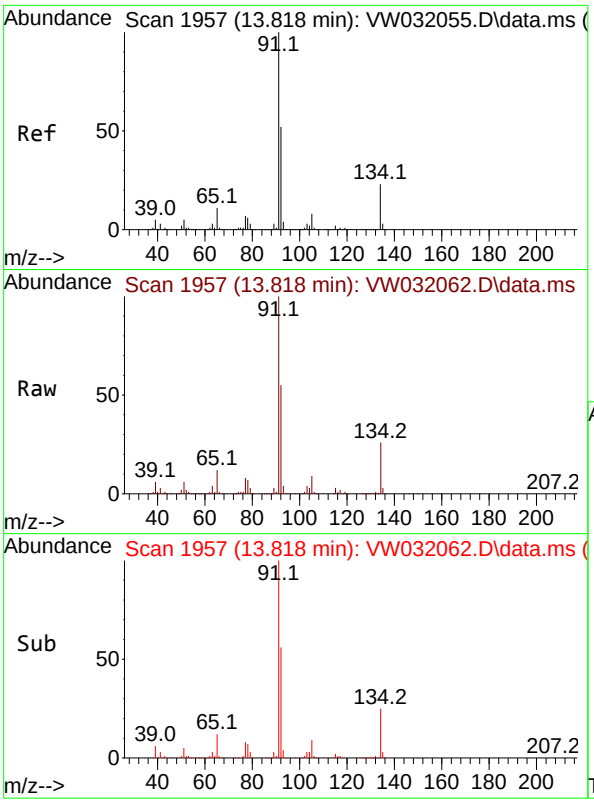


#88
1,4-Dichlorobenzene
Concen: 20.740 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 136123

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	64.6
148	61.0	32.0	96.2



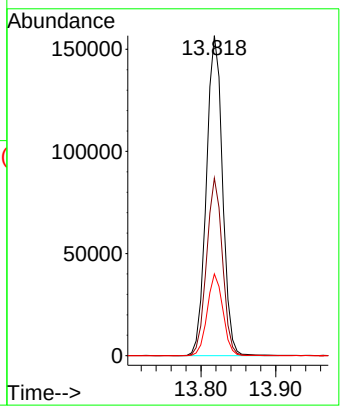


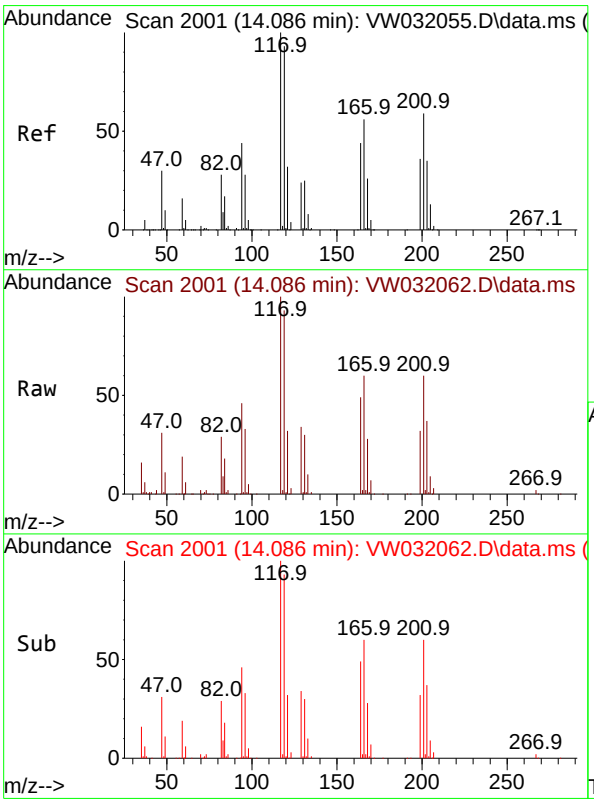
#89
n-Butylbenzene
Concen: 19.961 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion: 91 Resp: 235344

Ion	Ratio	Lower	Upper
91	100		
92	54.5	26.7	80.1
134	24.8	12.0	36.1

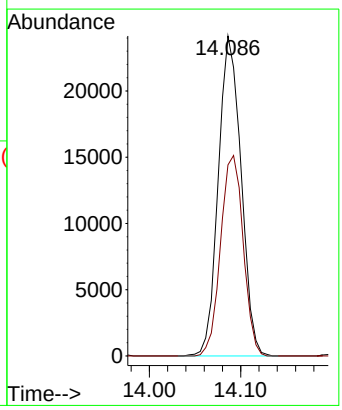


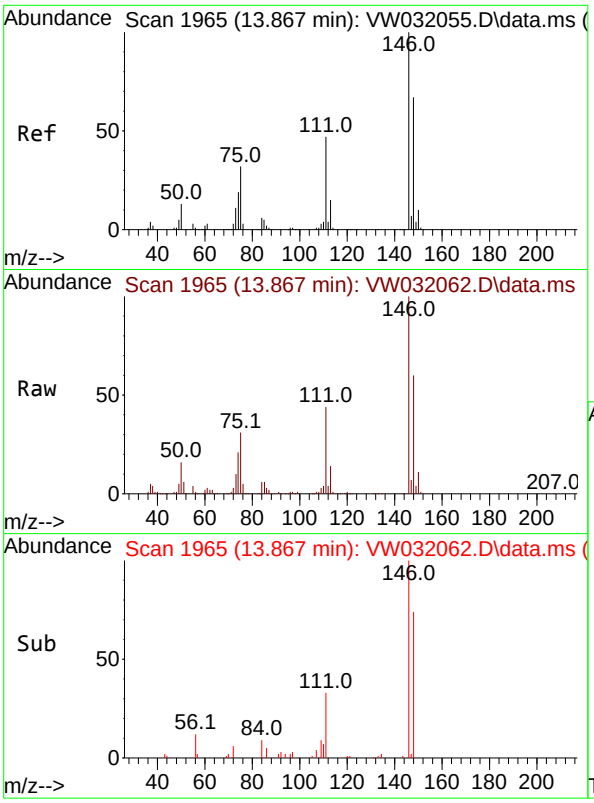


#90
Hexachloroethane
Concen: 18.827 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 41787

Ion	Ratio	Lower	Upper
117	100		
201	62.2	30.9	92.5



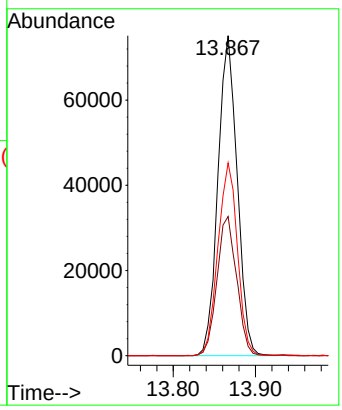


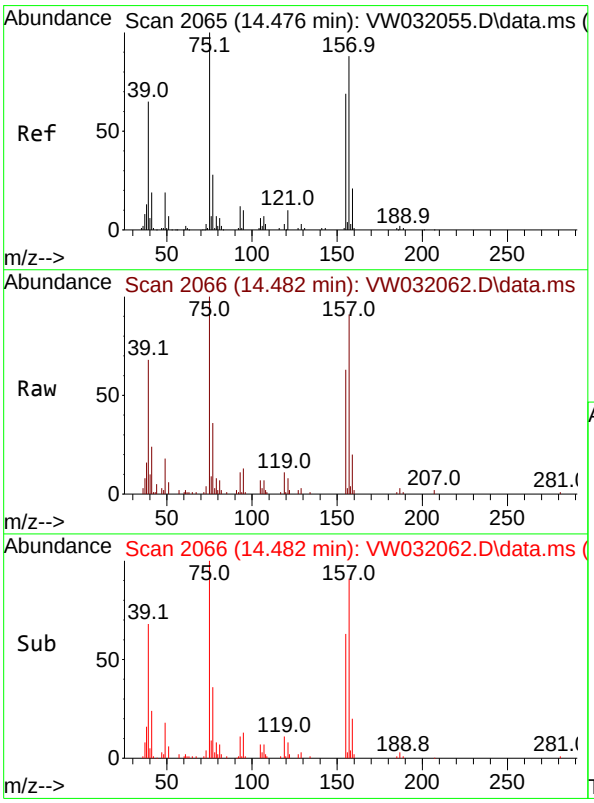
#91
1,2-Dichlorobenzene
Concen: 20.808 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:146 Resp: 122421

Ion	Ratio	Lower	Upper
146	100		
111	44.5	23.1	69.3
148	61.0	32.9	98.6

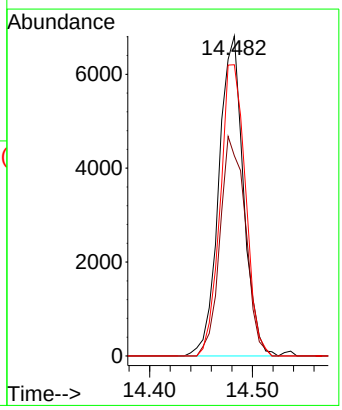


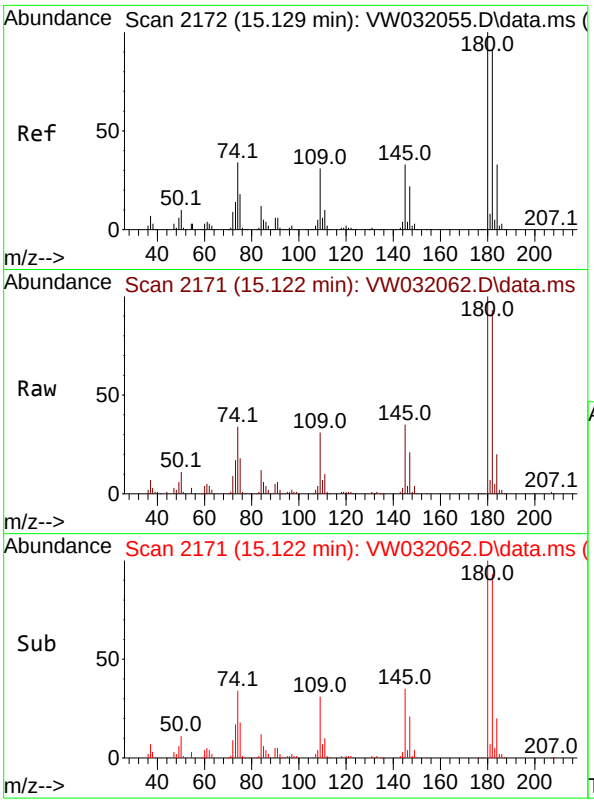


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.597 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 11304

Ion	Ratio	Lower	Upper
75	100		
155	70.9	35.2	105.6
157	93.4	47.5	142.6



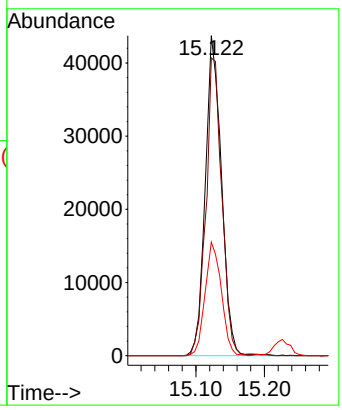


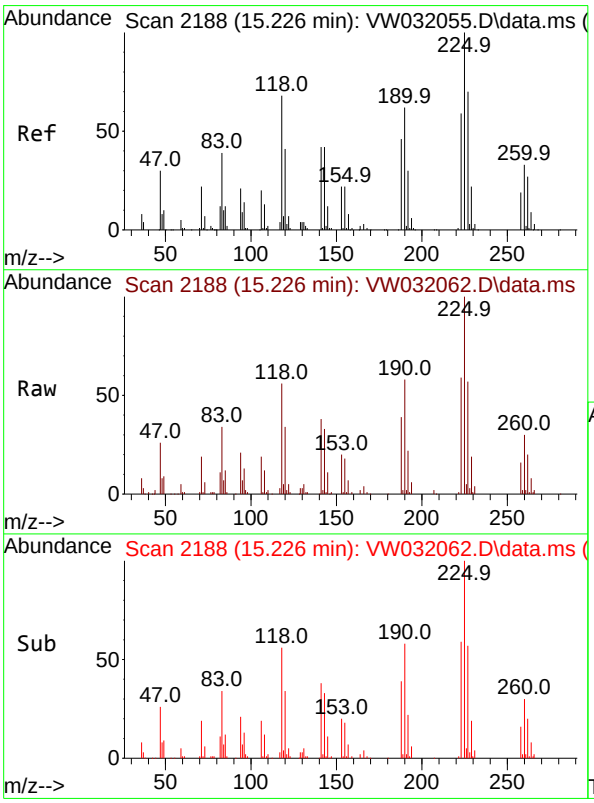
#93
1,2,4-Trichlorobenzene
Concen: 20.416 ug/l
RT: 15.122 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:180 Resp: 71854

Ion	Ratio	Lower	Upper
180	100		
182	92.0	49.0	147.0
145	35.7	17.3	51.9

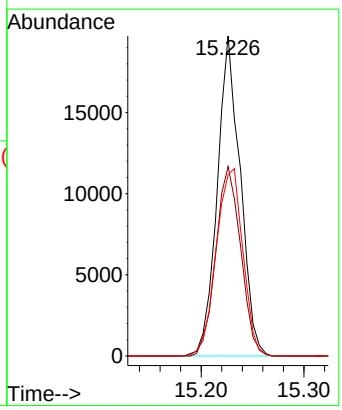


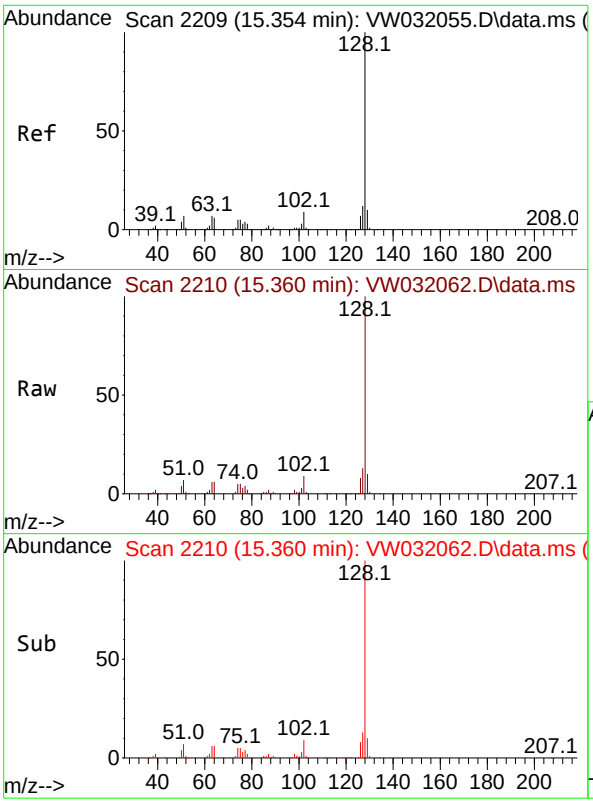


#94
Hexachlorobutadiene
Concen: 19.444 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:225 Resp: 30590

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.8	95.3
227	67.7	33.5	100.5



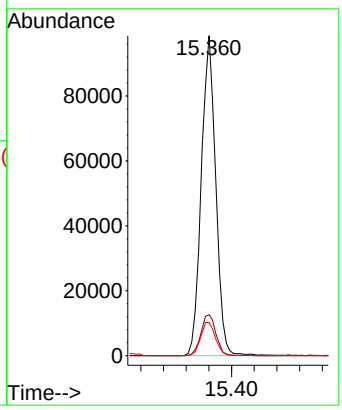


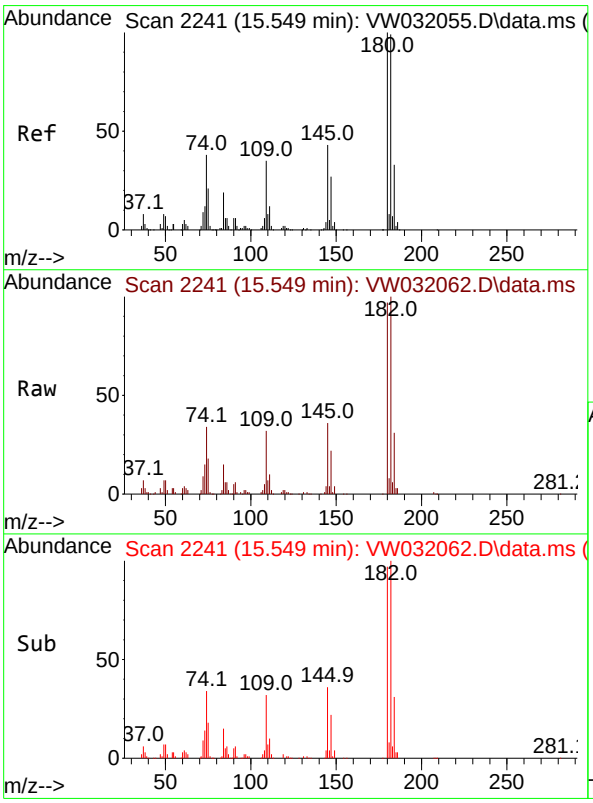
#95
Naphthalene
Concen: 20.223 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Instrument :
MSVOA_W
ClientSampleId :
VW0811SBSD01

Tgt Ion:128 Resp: 174401

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	10.7	8.2	12.4

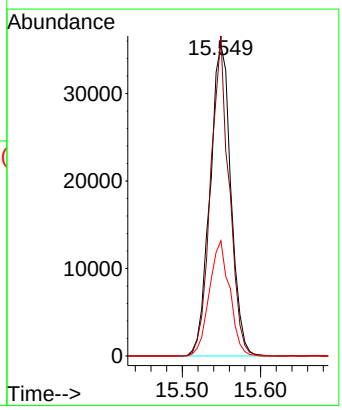




#96
1,2,3-Trichlorobenzene
Concen: 20.606 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:180 Resp: 65985

Ion	Ratio	Lower	Upper
180	100		
182	90.5	46.0	138.0
145	36.0	19.2	57.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	224871	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	413610	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	399228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	181926	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	160017	49.202	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 98.400%			
35) Dibromofluoromethane	7.898	113	132442	49.565	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 99.140%			
50) Toluene-d8	10.325	98	496013	50.187	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.380%			
62) 4-Bromofluorobenzene	12.617	95	180889	49.666	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	66817	41.544	ug/l	100
3) Chloromethane	2.253	50	91640	42.300	ug/l	95
4) Vinyl Chloride	2.405	62	112251	42.835	ug/l	94
5) Bromomethane	2.826	94	84610	43.036	ug/l	99
6) Chloroethane	2.972	64	76486	44.108	ug/l	99
7) Trichlorofluoromethane	3.308	101	91694	43.678	ug/l	95
8) Diethyl Ether	3.722	74	78203	45.468	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.100	101	107518	43.412	ug/l	99
10) Methyl Iodide	4.308	142	157749	44.922	ug/l	98
11) Tert butyl alcohol	5.216	59	48254	229.131	ug/l	100
12) 1,1-Dichloroethene	4.082	96	120156	44.059	ug/l	95
13) Acrolein	3.930	56	65364	194.795	ug/l	95
14) Allyl chloride	4.704	41	176474	44.462	ug/l	99
15) Acrylonitrile	5.405	53	195391	238.510	ug/l	99
16) Acetone	4.161	43	152843	202.983	ug/l	99
17) Carbon Disulfide	4.423	76	316067	43.178	ug/l #	94
18) Methyl Acetate	4.710	43	131388	55.142	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	231312	48.139	ug/l	99
20) Methylene Chloride	4.960	84	143735	41.285	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	133902	46.267	ug/l	95
22) Diisopropyl ether	6.344	45	401086	47.935	ug/l	100
23) Vinyl Acetate	6.283	43	1283164	233.574	ug/l	100
24) 1,1-Dichloroethane	6.246	63	242514	45.363	ug/l	99
25) 2-Butanone	7.197	43	255523	238.766	ug/l	100
26) 2,2-Dichloropropane	7.191	77	113466	42.306	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	162586	48.061	ug/l	98
28) Bromochloromethane	7.533	49	119080	48.947	ug/l	100
29) Tetrahydrofuran	7.551	42	173149	245.333	ug/l	99
30) Chloroform	7.691	83	267886	47.266	ug/l	100
31) Cyclohexane	7.971	56	200498	43.259	ug/l	99
32) 1,1,1-Trichloroethane	7.886	97	185041	44.949	ug/l	98
36) 1,1-Dichloropropene	8.093	75	180151	47.825	ug/l	99
37) Ethyl Acetate	7.277	43	110057	49.608	ug/l	99
38) Carbon Tetrachloride	8.087	117	167458	46.065	ug/l	94
39) Methylcyclohexane	9.343	83	221584	48.261	ug/l	98
40) Benzene	8.337	78	560623	47.879	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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	62009	49.286	ug/l		94
42) 1,2-Dichloroethane	8.410	62	180455	48.163	ug/l		99
43) Isopropyl Acetate	8.435	43	200606	49.147	ug/l		99
44) Trichloroethene	9.099	130	129965	46.608	ug/l		98
45) 1,2-Dichloropropane	9.380	63	138731	49.043	ug/l		99
46) Dibromomethane	9.465	93	89360	48.945	ug/l		99
47) Bromodichloromethane	9.654	83	205517	48.852	ug/l		98
48) Methyl methacrylate	9.441	41	101426	51.471	ug/l		98
49) 1,4-Dioxane	9.459	88	23641	1001.497	ug/l		99
51) 4-Methyl-2-Pentanone	10.215	43	581370	252.344	ug/l		100
52) Toluene	10.392	92	363384	49.271	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	188585	47.848	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	216528	48.425	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	118978	49.042	ug/l		98
56) Ethyl methacrylate	10.648	69	166567	51.306	ug/l		100
57) 1,3-Dichloropropane	10.934	76	204220	48.292	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	476248	265.209	ug/l		99
59) 2-Hexanone	10.971	43	404553	253.545	ug/l		100
60) Dibromochloromethane	11.129	129	134574	48.560	ug/l		97
61) 1,2-Dibromoethane	11.239	107	115961	49.186	ug/l		100
64) Tetrachloroethene	10.861	164	103230	44.767	ug/l		92
65) Chlorobenzene	11.660	112	390137	44.896	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.727	131	125374	46.243	ug/l		98
67) Ethyl Benzene	11.733	91	674717	45.839	ug/l		97
68) m/p-Xylenes	11.837	106	509322	89.674	ug/l		96
69) o-Xylene	12.166	106	249805	47.586	ug/l		99
70) Styrene	12.178	104	444091	47.626	ug/l		99
71) Bromoform	12.349	173	74729	48.185	ug/l	#	99
73) Isopropylbenzene	12.465	105	615630	48.421	ug/l		100
74) N-amyl acetate	12.270	43	174844	47.933	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.715	83	143342	47.484	ug/l		98
76) 1,2,3-Trichloropropane	12.763	75	184957	74.907	ug/l		58
77) Bromobenzene	12.745	156	145348	47.865	ug/l		97
78) n-propylbenzene	12.806	91	756214	48.311	ug/l		100
79) 2-Chlorotoluene	12.891	91	469293	48.578	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	534122	49.484	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	43908	46.037	ug/l		97
82) 4-Chlorotoluene	12.989	91	487171	47.464	ug/l		98
83) tert-Butylbenzene	13.202	119	433786	48.424	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	543640	49.477	ug/l		99
85) sec-Butylbenzene	13.379	105	643083	47.482	ug/l		99
86) p-Isopropyltoluene	13.495	119	549955	48.708	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	278295	46.057	ug/l		93
88) 1,4-Dichlorobenzene	13.574	146	277410	45.431	ug/l		98
89) n-Butylbenzene	13.818	91	531065	48.414	ug/l		100
90) Hexachloroethane	14.086	117	94529	45.779	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	269607	49.256	ug/l		96
92) 1,2-Dibromo-3-Chloropr...	14.476	75	25079	46.732	ug/l		99
93) 1,2,4-Trichlorobenzene	15.129	180	155733	47.562	ug/l		99
94) Hexachlorobutadiene	15.226	225	65688	44.879	ug/l		96
95) Naphthalene	15.360	128	397425	49.535	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	152914	51.327	ug/l		95

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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)

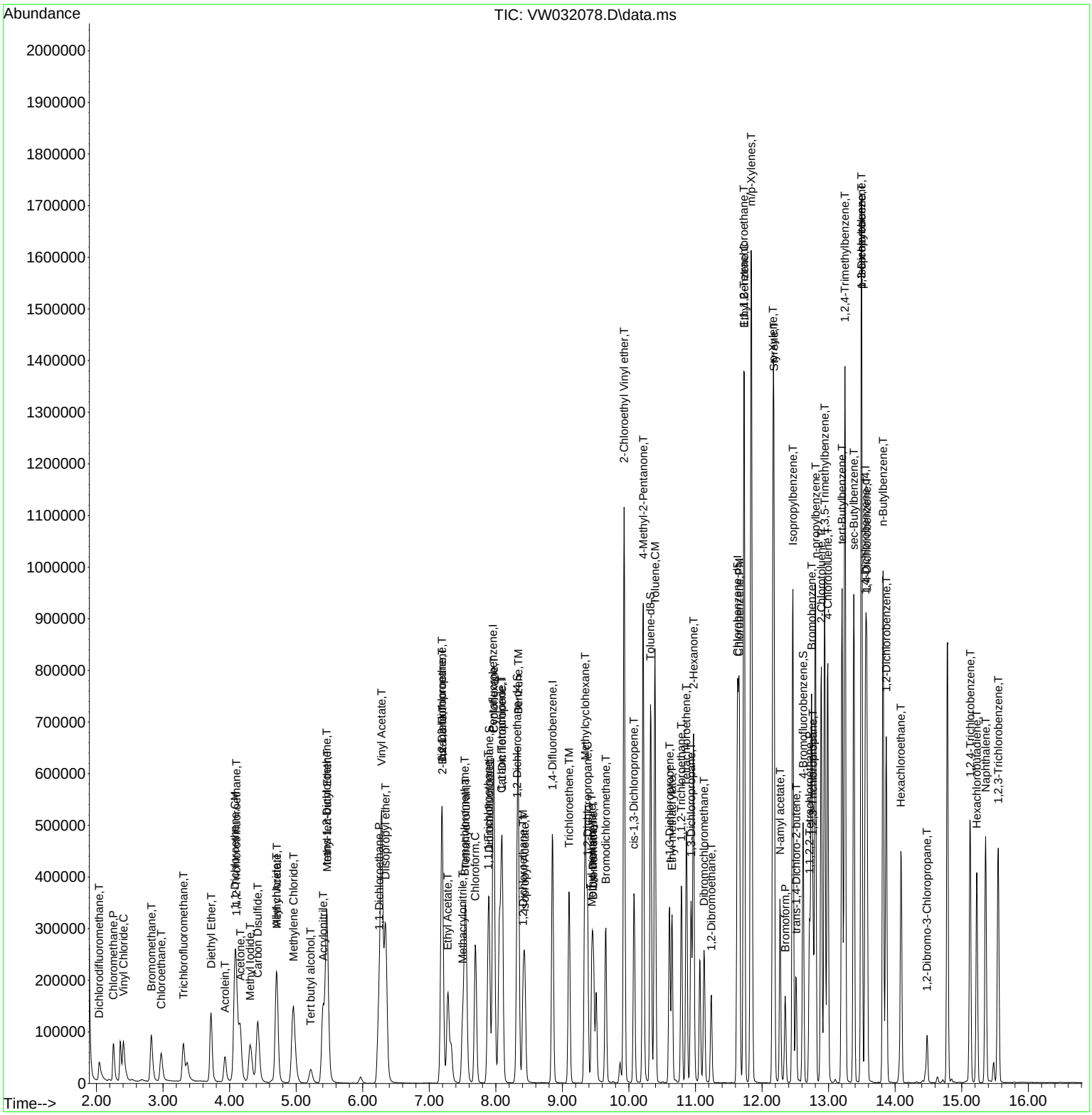
(#) = qualifier out of range (m) = manual integration (+) = signals summed

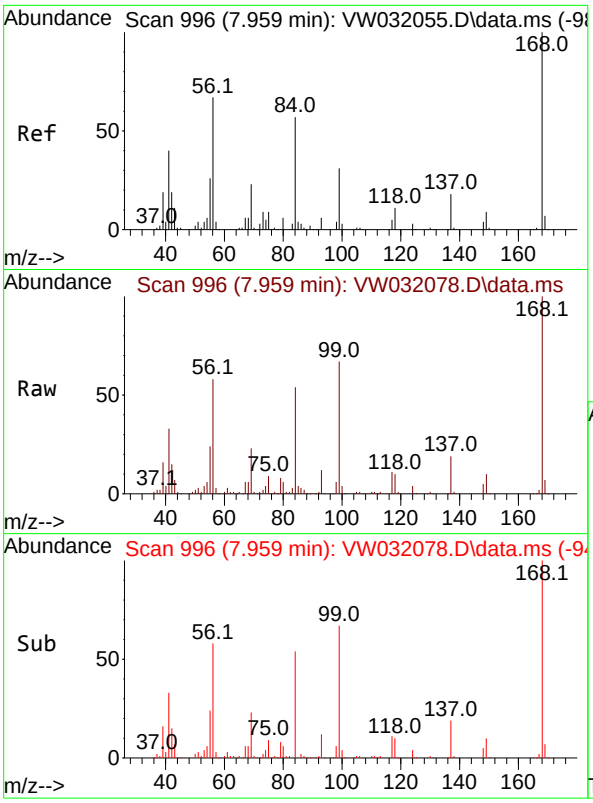
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
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 12 04:30:35 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



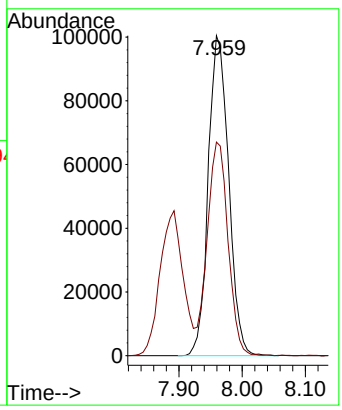


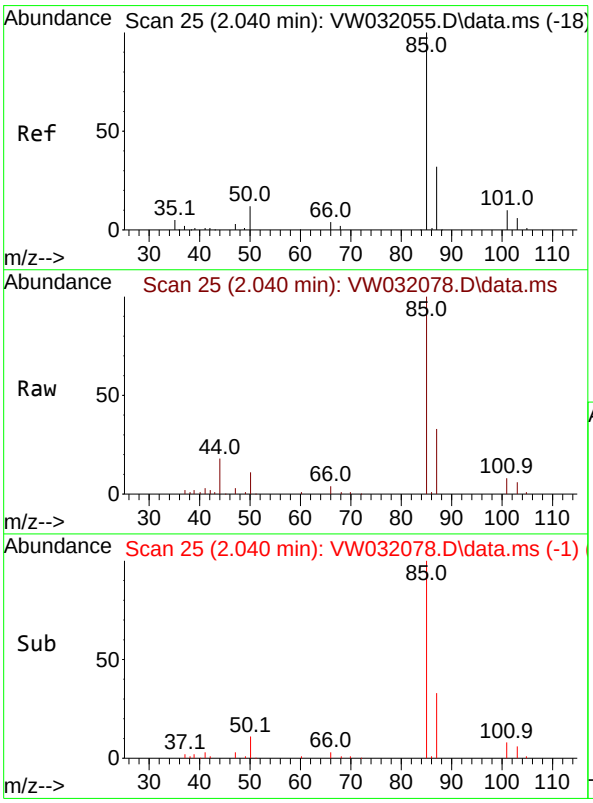
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 224871

Ion	Ratio	Lower	Upper
168	100		
99	66.7	56.0	84.0

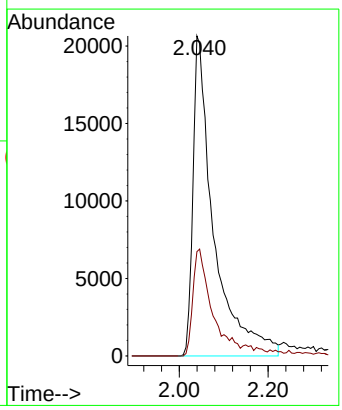


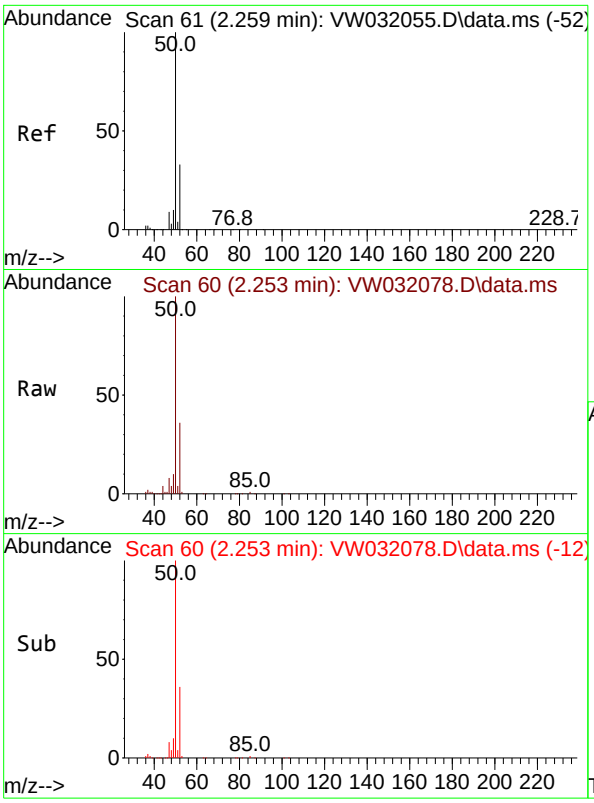


#2
Dichlorodifluoromethane
Concen: 41.544 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 85 Resp: 66817

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6



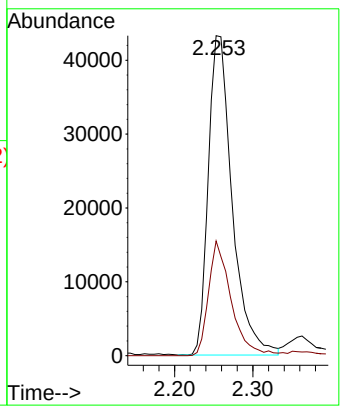


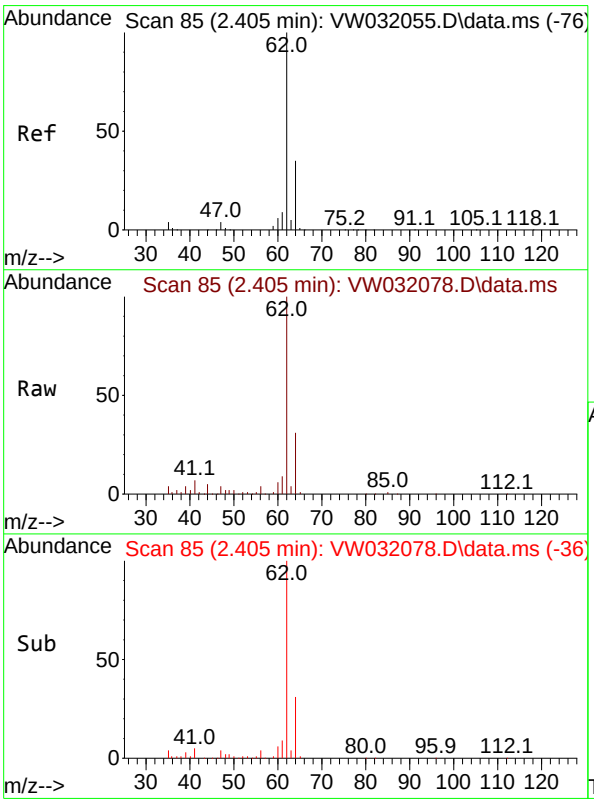
#3
Chloromethane
Concen: 42.300 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 91640

Ion	Ratio	Lower	Upper
50	100		
52	35.9	26.6	39.8

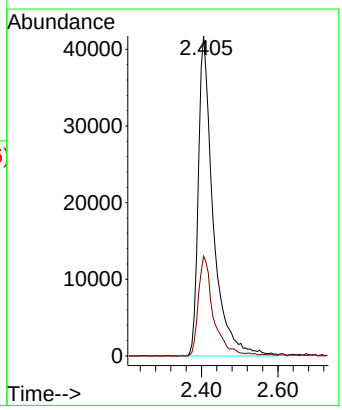


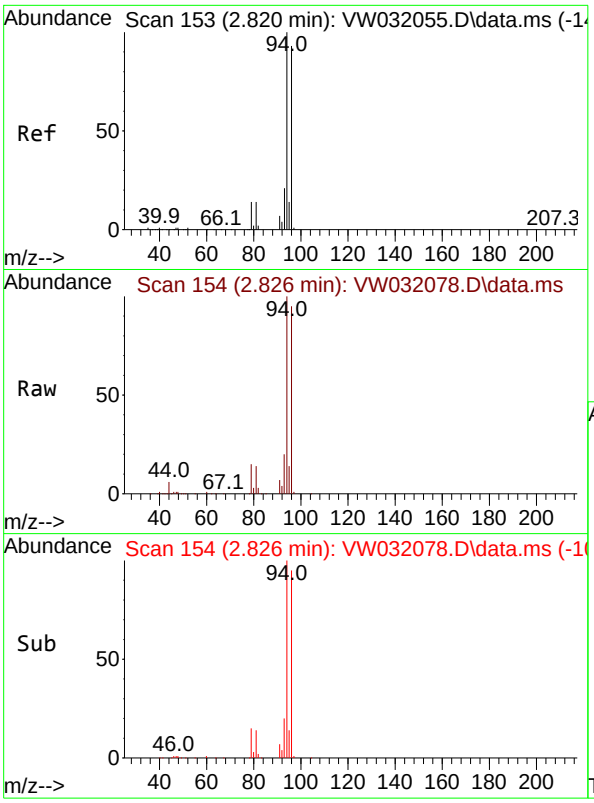


#4
Vinyl Chloride
Concen: 42.835 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 112251

Ion	Ratio	Lower	Upper
62	100		
64	31.2	27.8	41.6



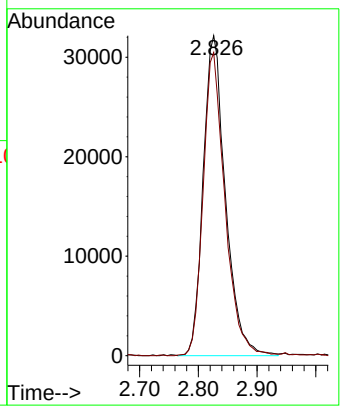


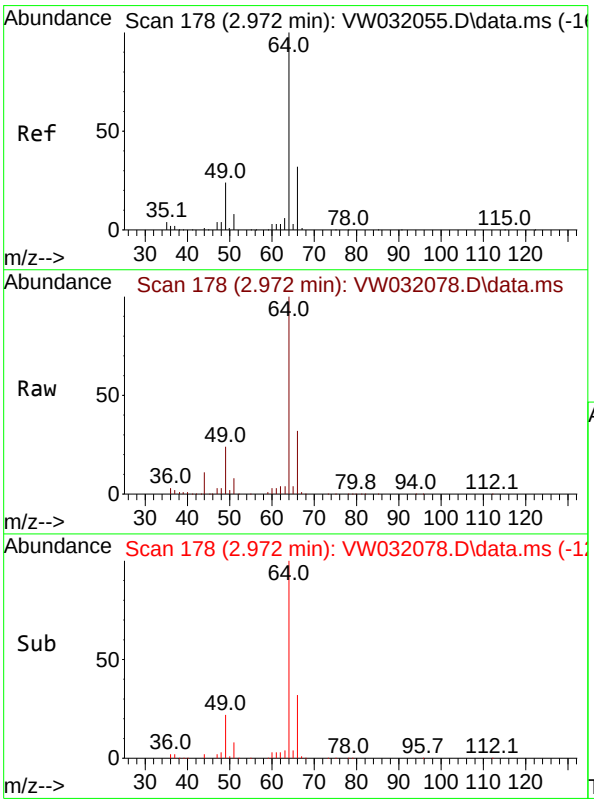
#5
Bromomethane
Concen: 43.036 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 84610

Ion	Ratio	Lower	Upper
94	100		
96	94.5	74.7	112.1

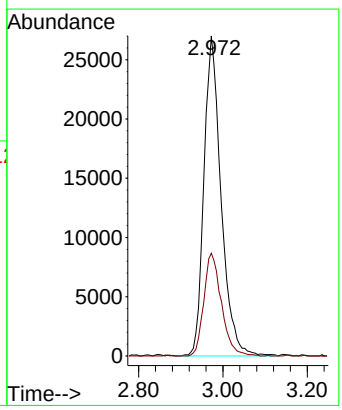


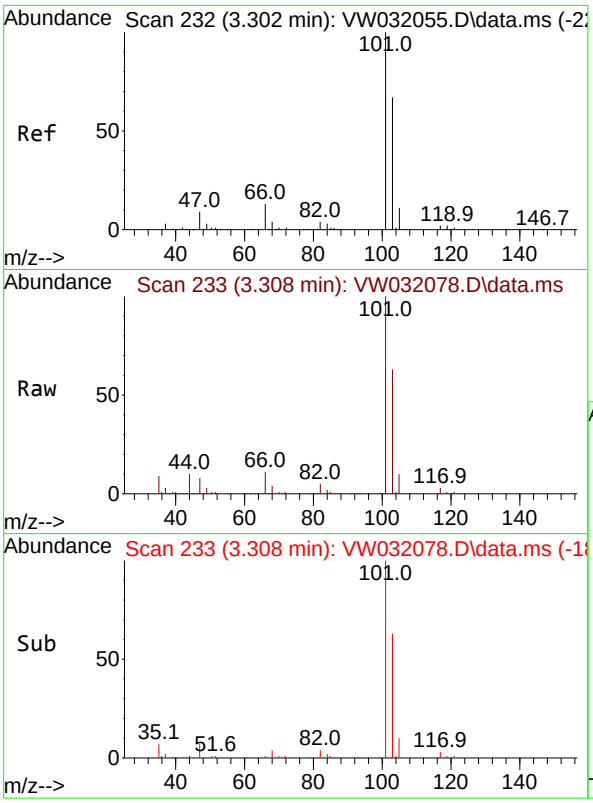


#6
Chloroethane
Concen: 44.108 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 64 Resp: 76486

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.0	39.0



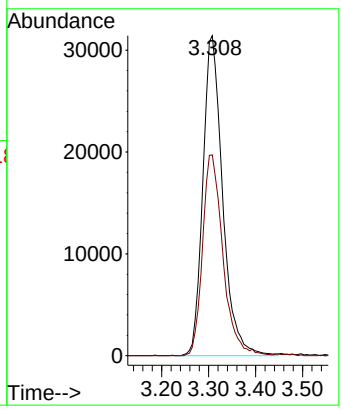


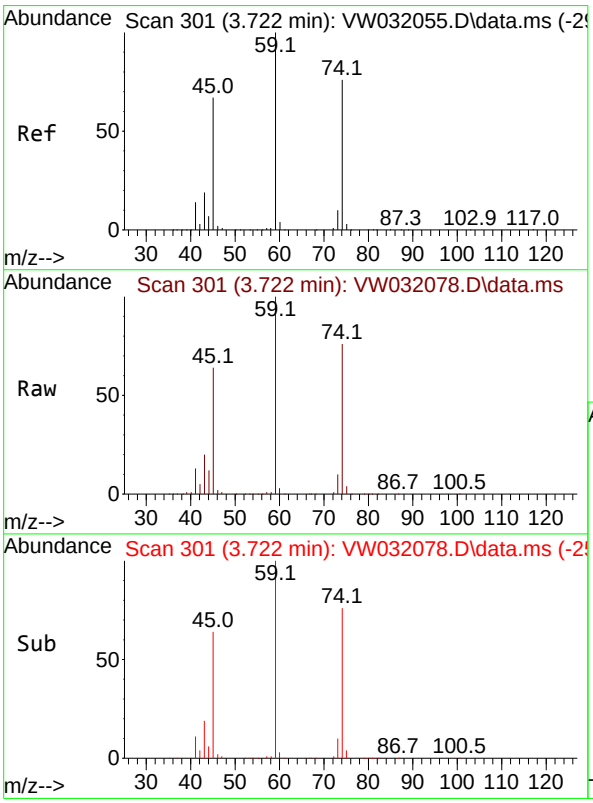
#7
Trichlorofluoromethane
Concen: 43.678 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 91694

Ion	Ratio	Lower	Upper
101	100		
103	62.8	53.4	80.0

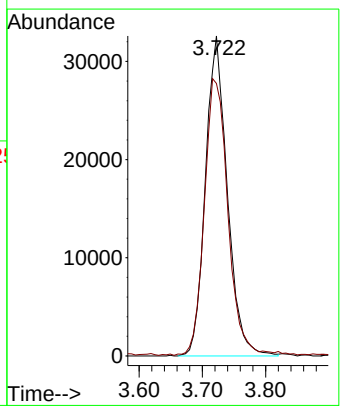


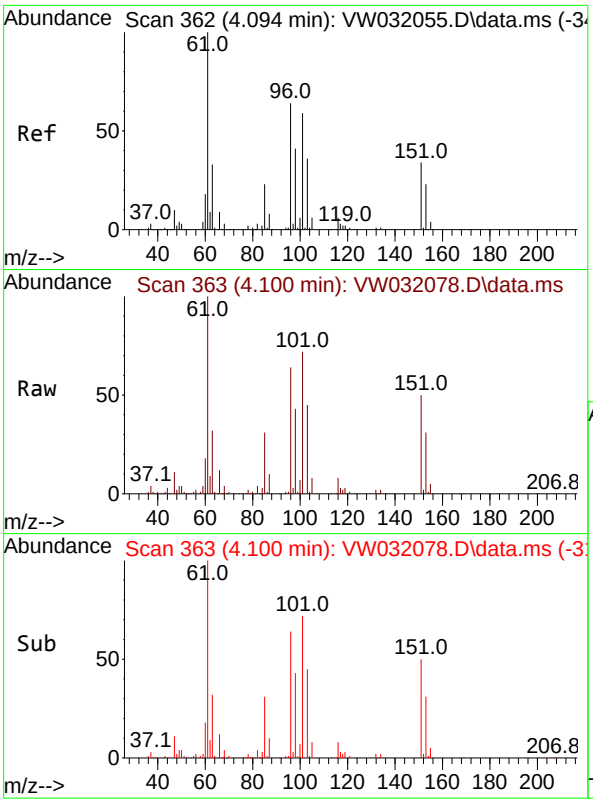


#8
Diethyl Ether
Concen: 45.468 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 74 Resp: 78203

Ion	Ratio	Lower	Upper
74	100		
45	93.6	45.4	136.2



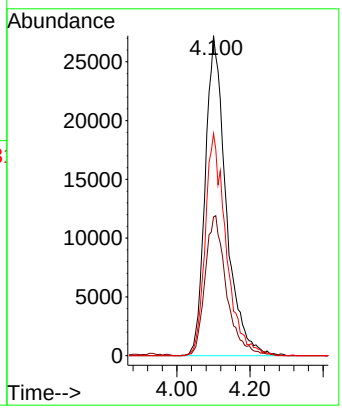


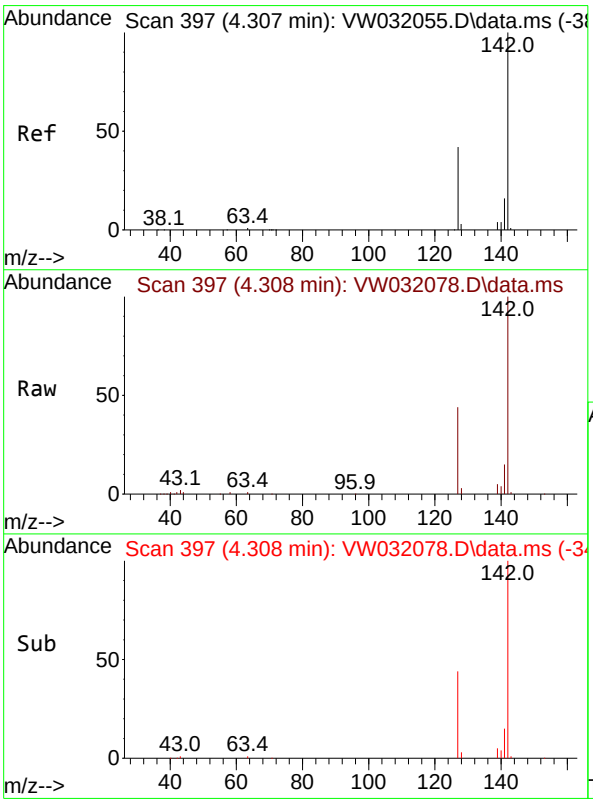
#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.412 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 107518

Ion	Ratio	Lower	Upper
101	100		
85	45.0	34.9	52.3
151	69.8	56.2	84.4

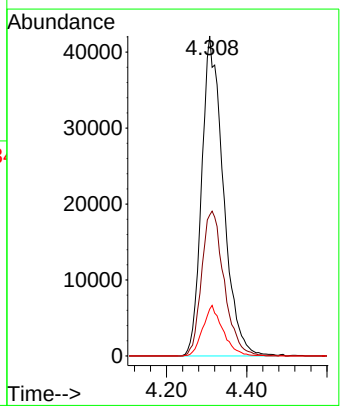


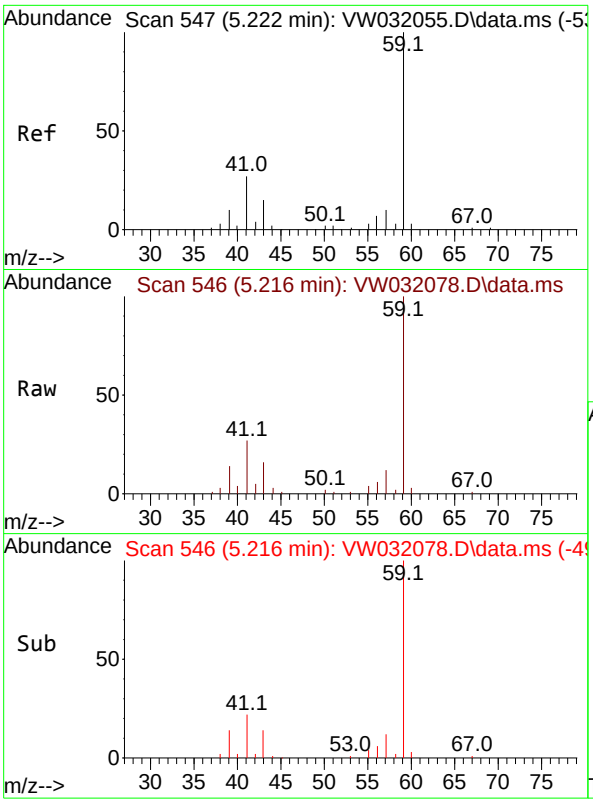


#10
Methyl Iodide
Concen: 44.922 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:142 Resp: 157749

Ion	Ratio	Lower	Upper
142	100		
127	47.1	36.6	55.0
141	14.7	12.1	18.1



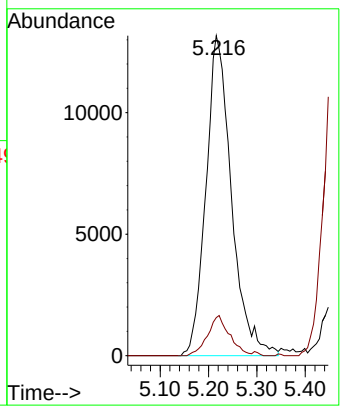


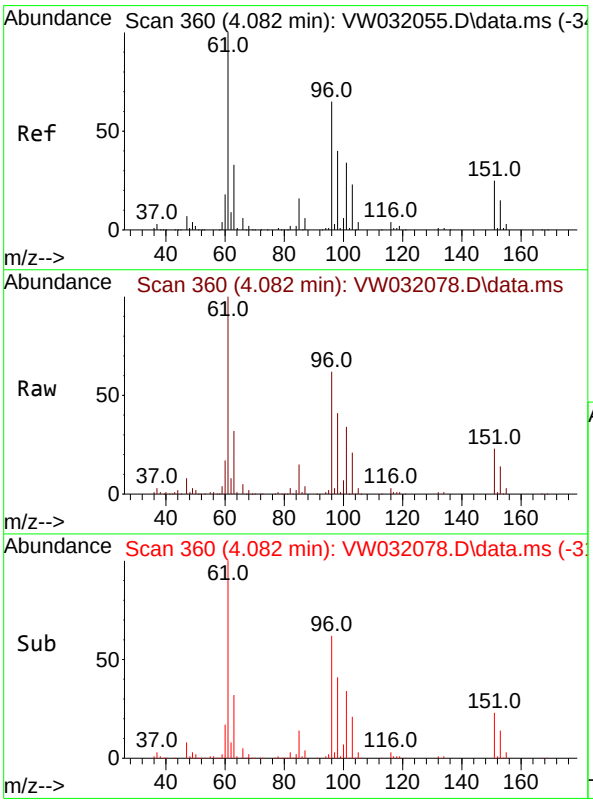
#11
Tert butyl alcohol
Concen: 229.131 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 48254

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.7	13.1

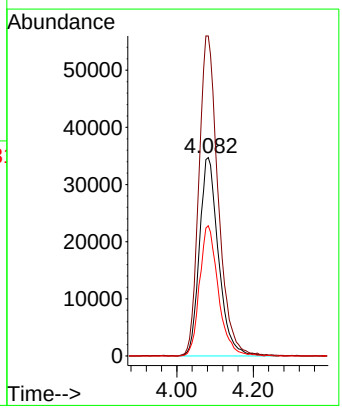


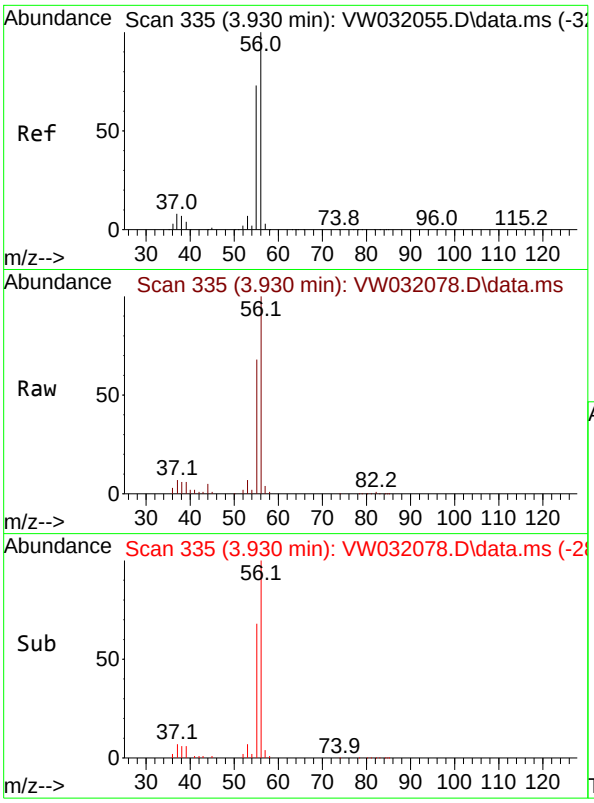


#12
1,1-Dichloroethene
Concen: 44.059 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 120156

Ion	Ratio	Lower	Upper
96	100		
61	161.3	123.4	185.2
98	65.6	49.5	74.3



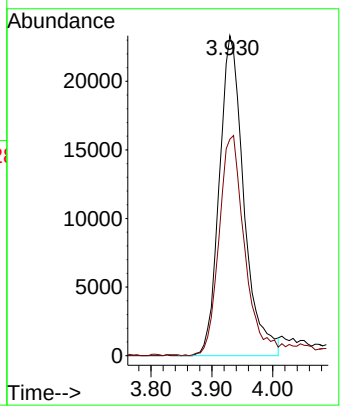


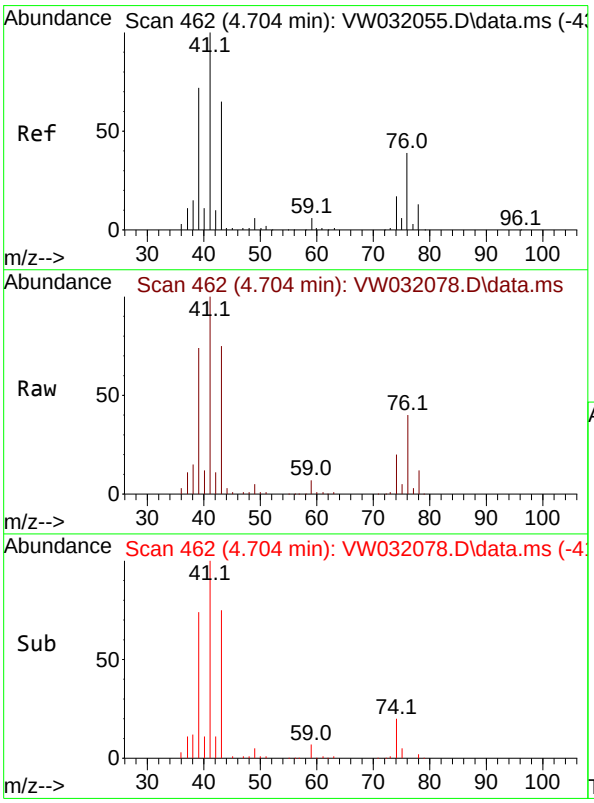
#13
Acrolein
Concen: 194.795 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 65364

Ion	Ratio	Lower	Upper
56	100		
55	73.8	55.4	83.2

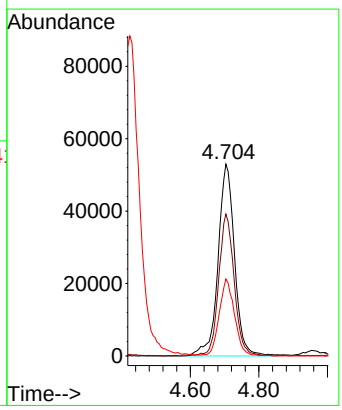


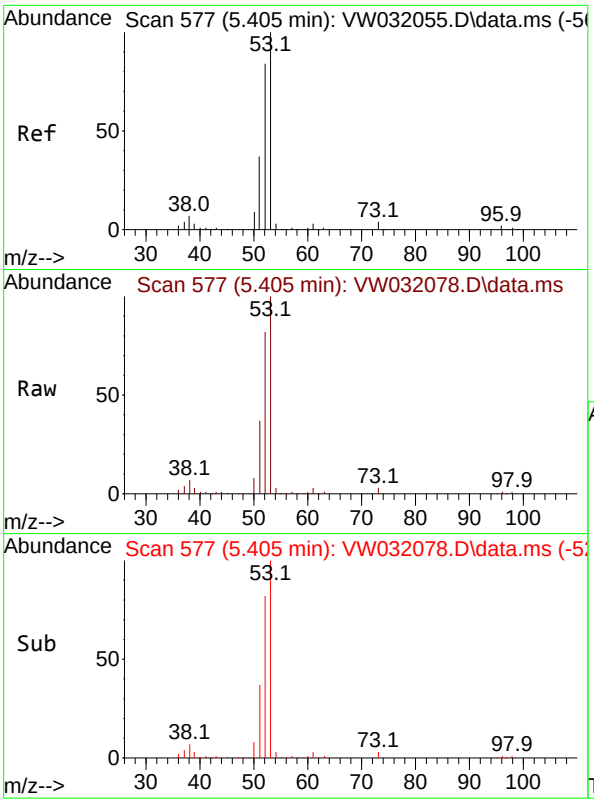


#14
Allyl chloride
Concen: 44.462 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 176474

Ion	Ratio	Lower	Upper
41	100		
39	69.6	54.5	81.7
76	36.6	29.3	43.9



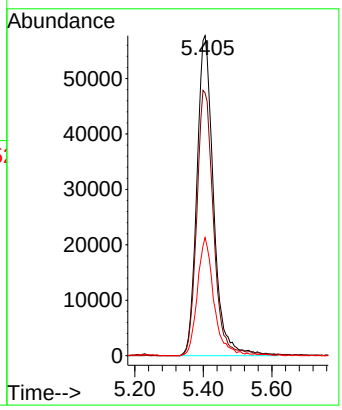


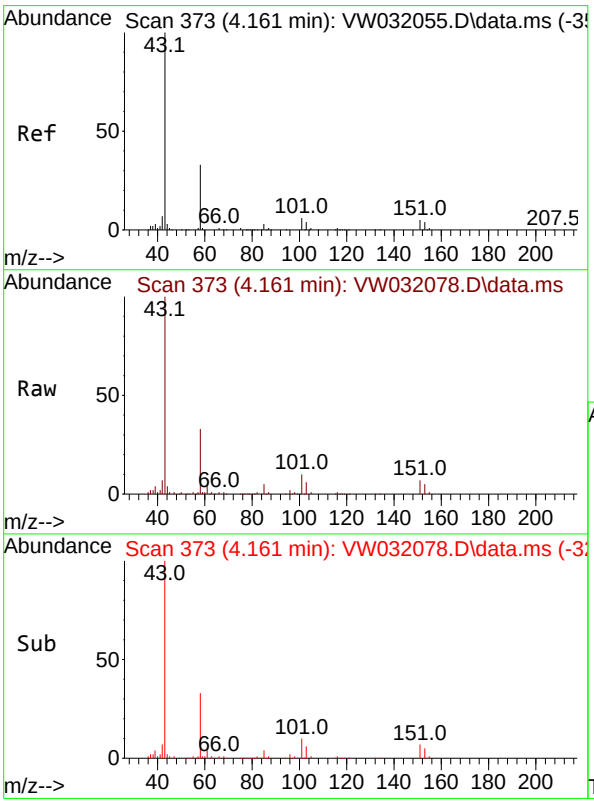
#15
Acrylonitrile
Concen: 238.510 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 195391

Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.1	99.1
51	36.8	29.2	43.8

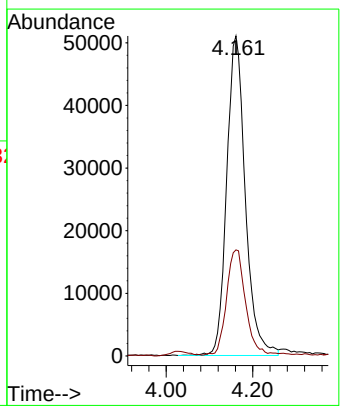


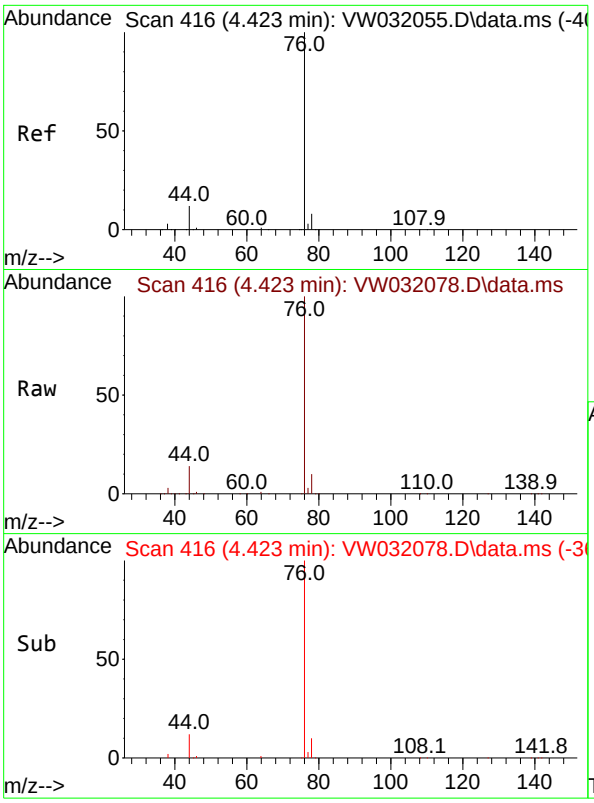


#16
Acetone
Concen: 202.983 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 152843

Ion	Ratio	Lower	Upper
43	100		
58	32.4	26.6	39.8



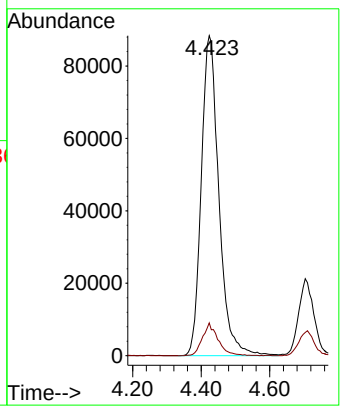


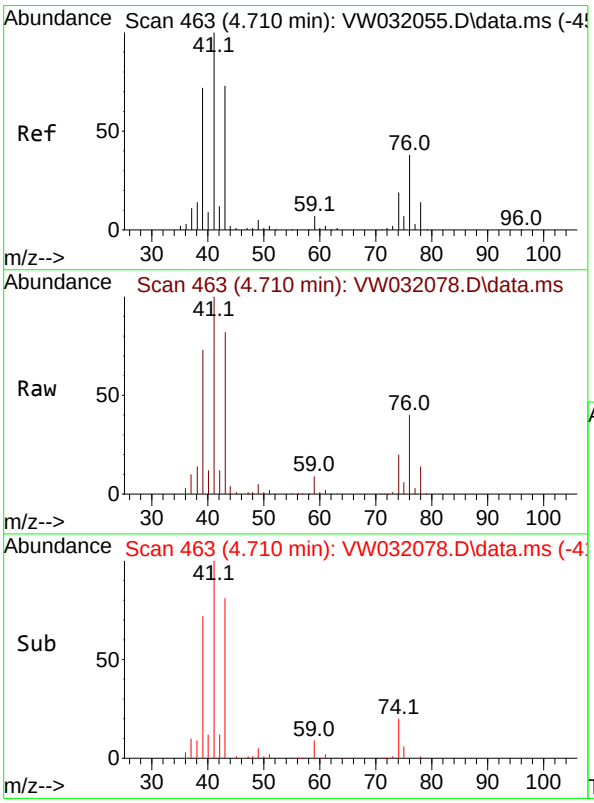
#17
Carbon Disulfide
Concen: 43.178 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 316067

Ion	Ratio	Lower	Upper
76	100		
78	10.3	6.4	9.6#

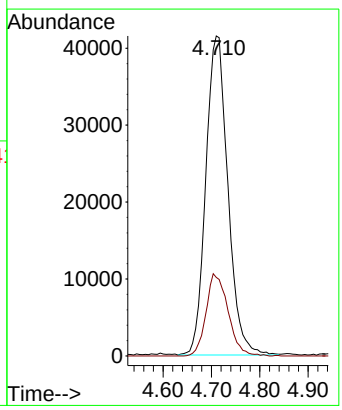


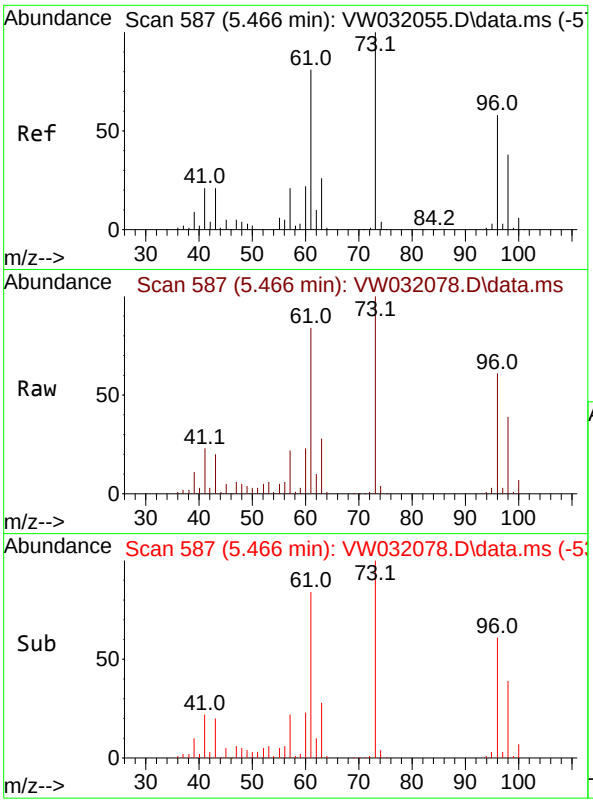


#18
Methyl Acetate
Concen: 55.142 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 131388

Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.6	31.0



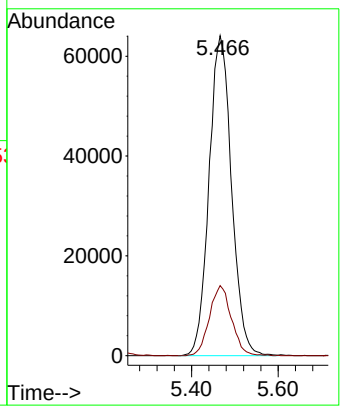


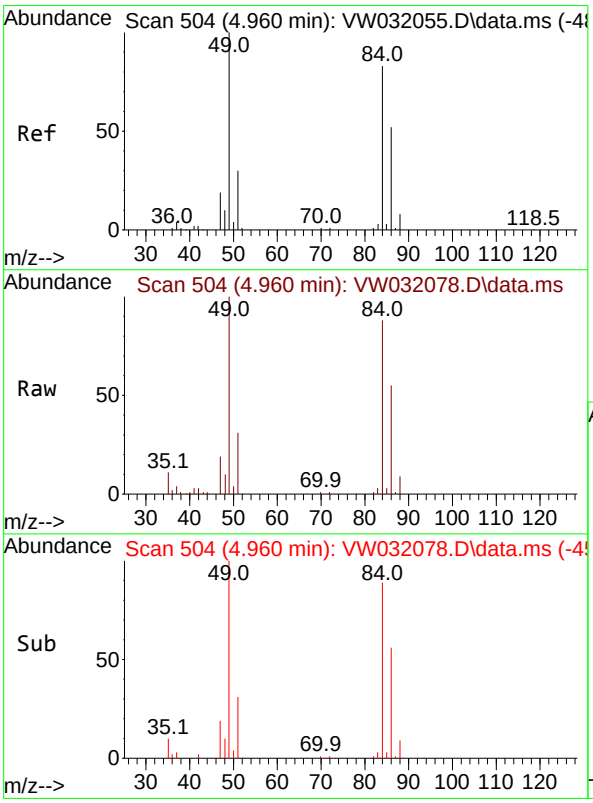
#19
Methyl tert-butyl Ether
Concen: 48.139 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 231312

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.2	25.8

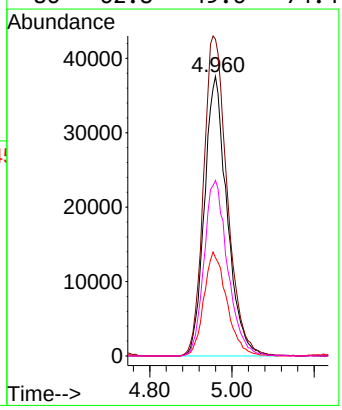


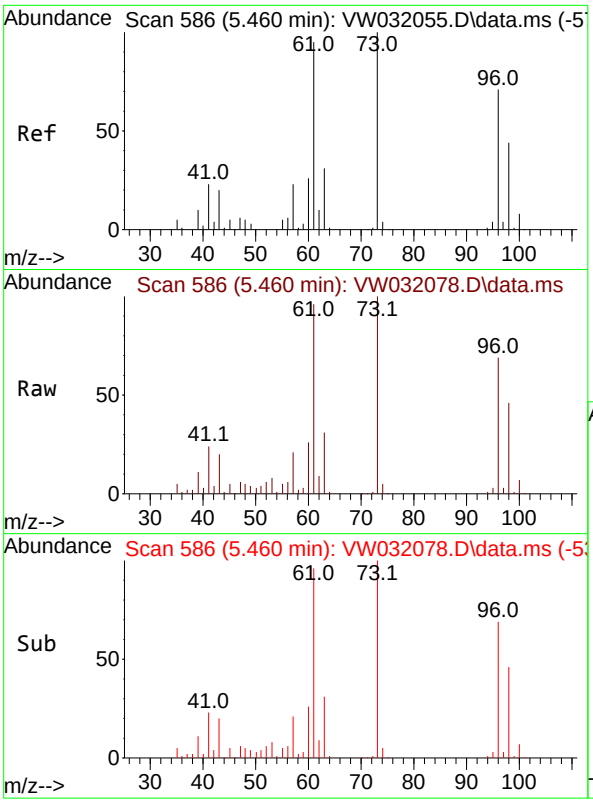


#20
Methylene Chloride
Concen: 41.285 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 84 Resp: 143735

Ion	Ratio	Lower	Upper
84	100		
49	113.4	95.9	143.9
51	35.1	28.6	43.0
86	62.8	49.6	74.4



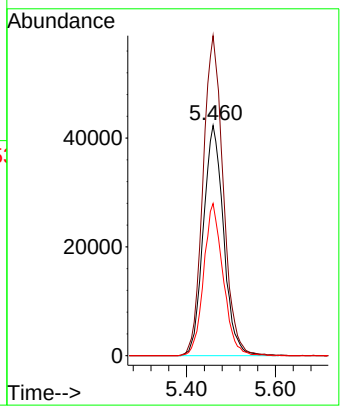


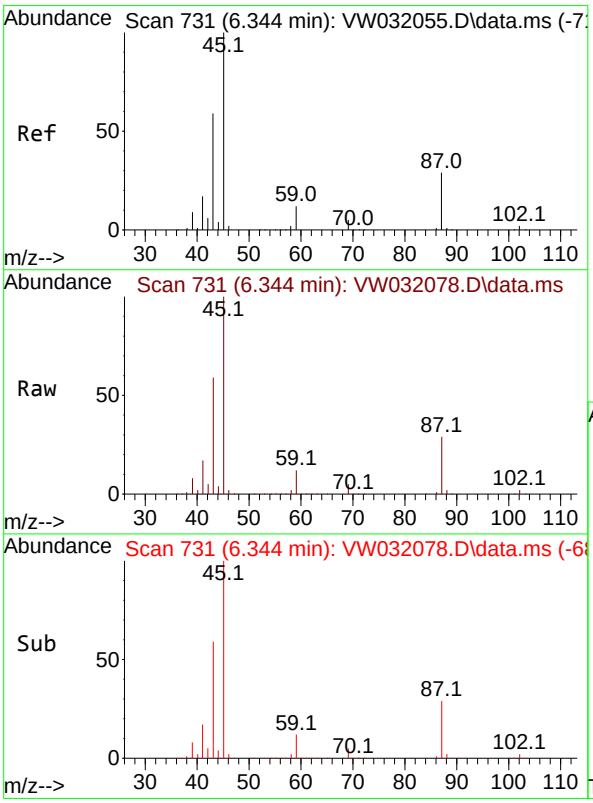
#21
trans-1,2-Dichloroethene
Concen: 46.267 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 133902

Ion	Ratio	Lower	Upper
96	100		
61	139.0	106.8	160.2
98	66.1	49.6	74.4

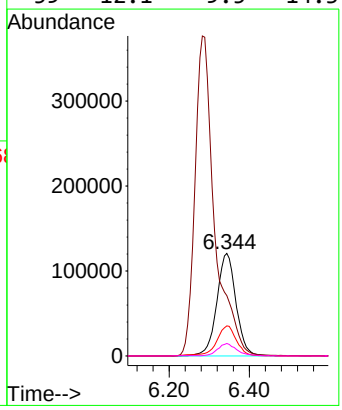


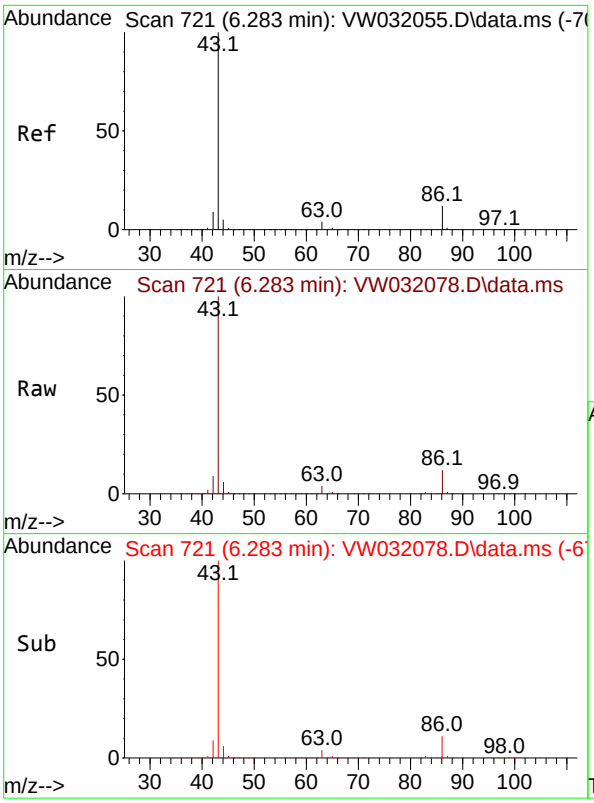


#22
Diisopropyl ether
Concen: 47.935 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 45 Resp: 401086

Ion	Ratio	Lower	Upper
45	100		
43	58.5	47.0	70.4
87	29.3	23.8	35.8
59	12.1	9.5	14.3



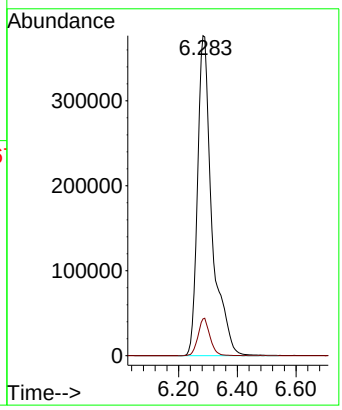


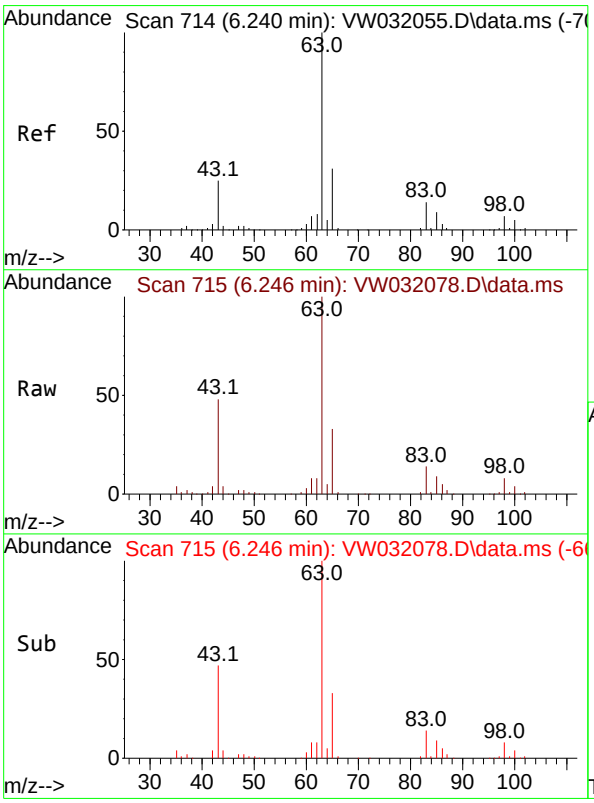
#23
Vinyl Acetate
Concen: 233.574 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1283164

Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.4	14.0

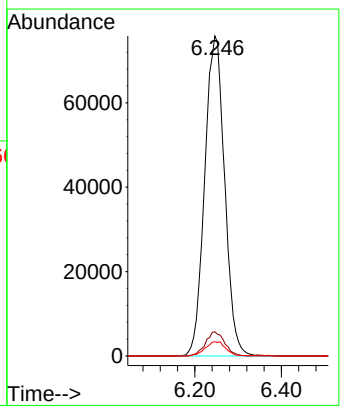


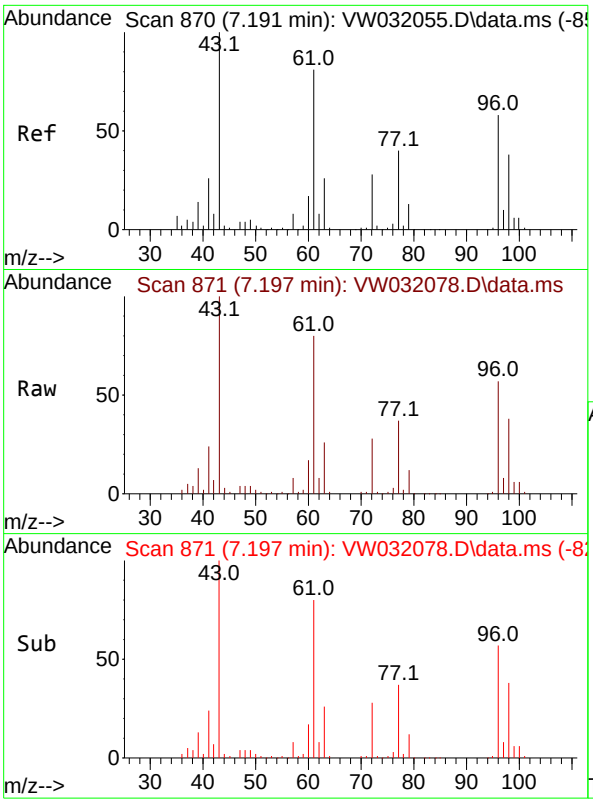


#24
1,1-Dichloroethane
Concen: 45.363 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 242514

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.7	11.1
100	4.4	2.5	7.4



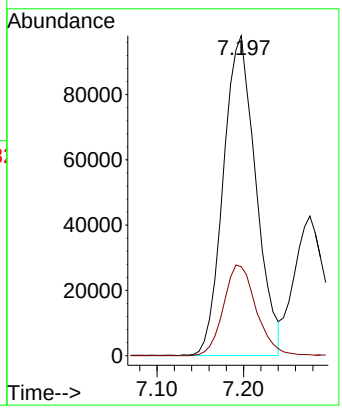


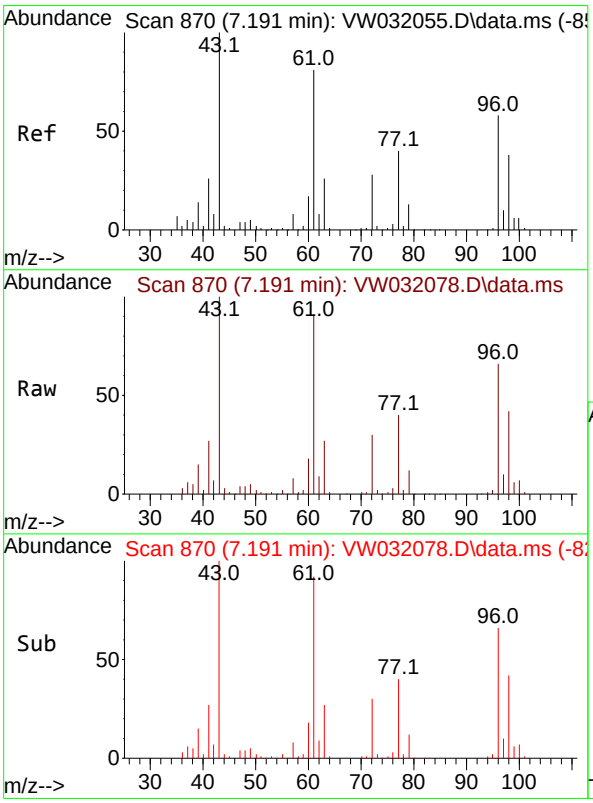
#25
2-Butanone
Concen: 238.766 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 255523

Ion	Ratio	Lower	Upper
43	100		
72	27.8	22.3	33.5

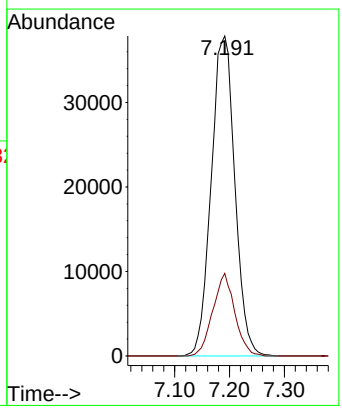


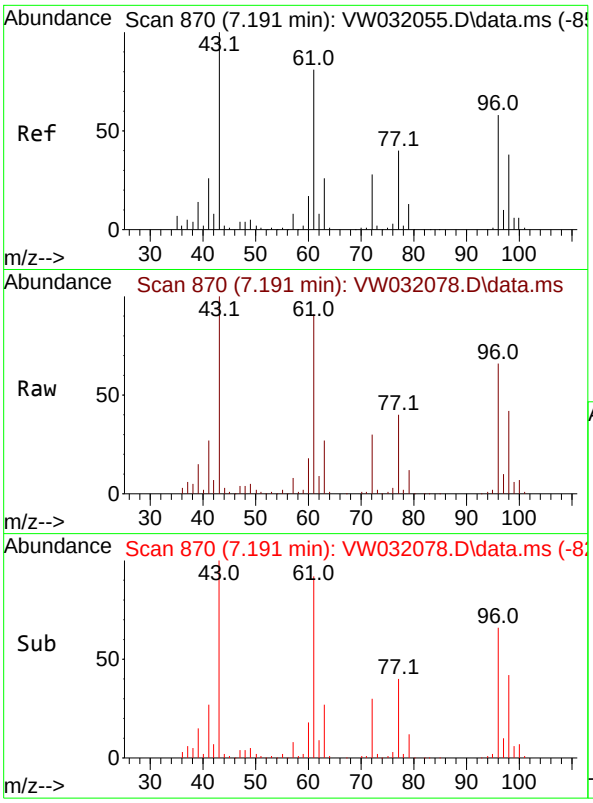


#26
2,2-Dichloropropane
Concen: 42.306 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 77 Resp: 113466

Ion	Ratio	Lower	Upper
77	100		
97	24.0	12.3	36.9



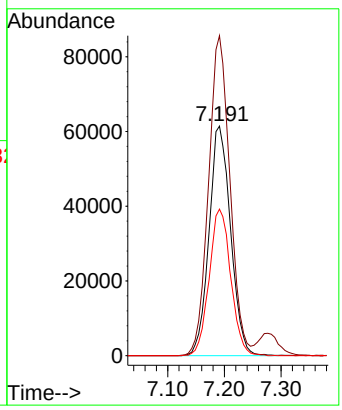


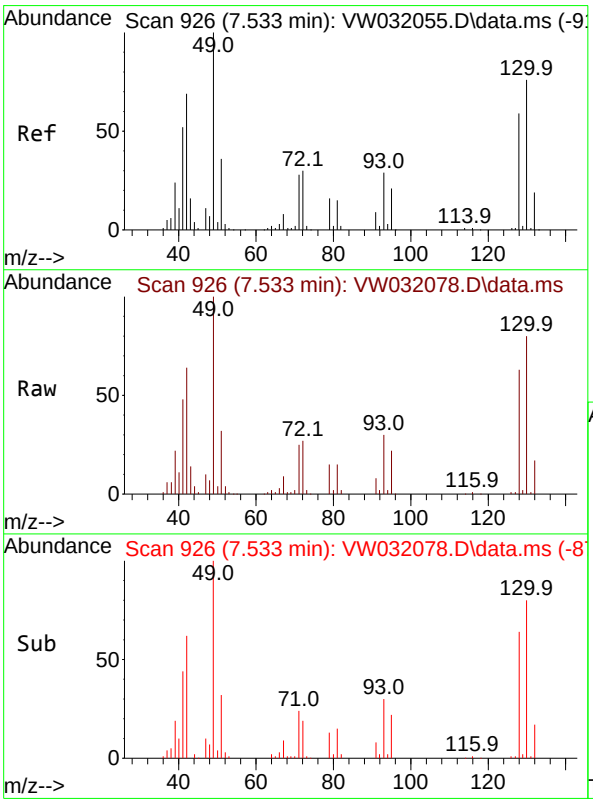
#27
cis-1,2-Dichloroethene
Concen: 48.061 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 162586

Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	281.2
98	63.8	0.0	130.8

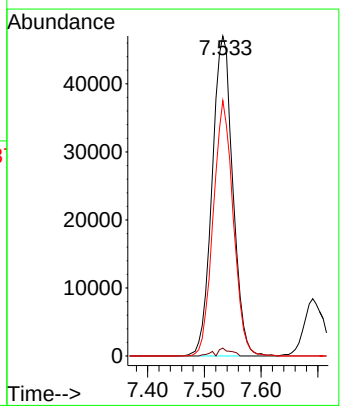


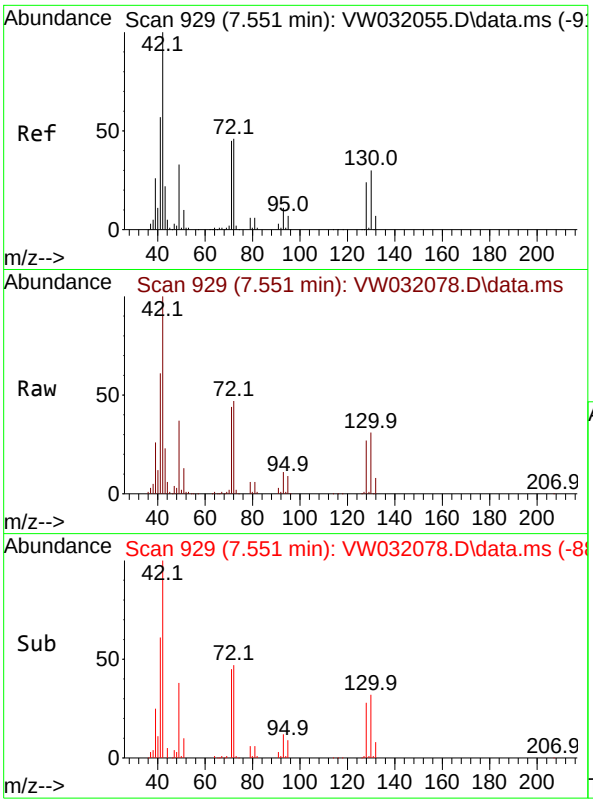


#28
Bromochloromethane
Concen: 48.947 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 49 Resp: 119080

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	77.4	61.9	92.9



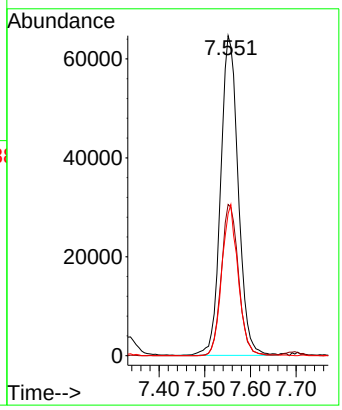


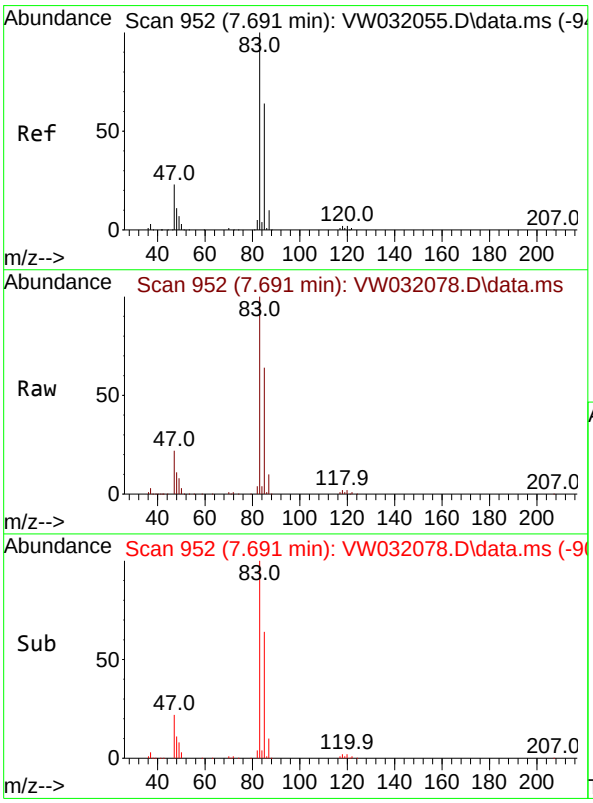
#29
Tetrahydrofuran
Concen: 245.333 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 173149

Ion	Ratio	Lower	Upper
42	100		
72	46.2	36.6	55.0
71	43.9	34.7	52.1

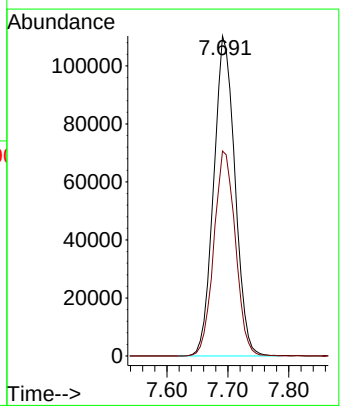


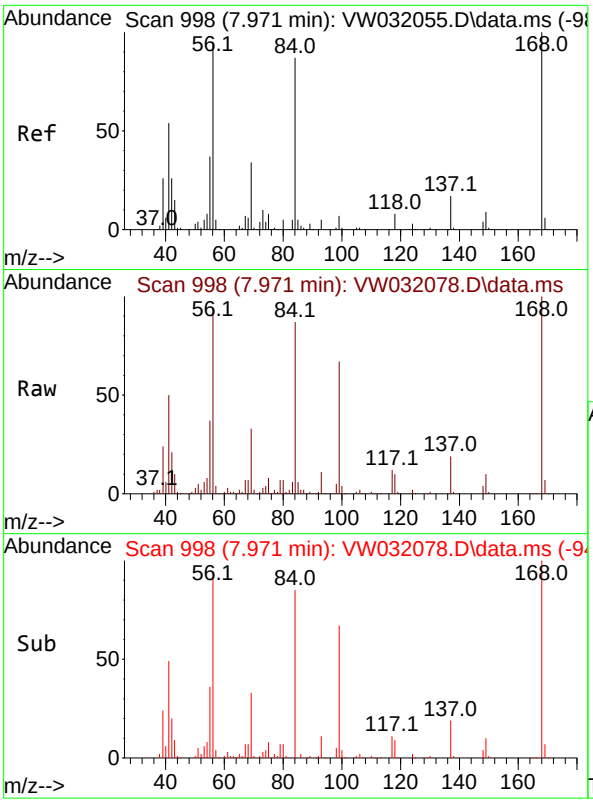


#30
Chloroform
Concen: 47.266 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 267886

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.0	76.4



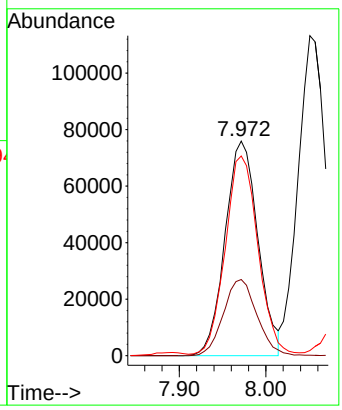


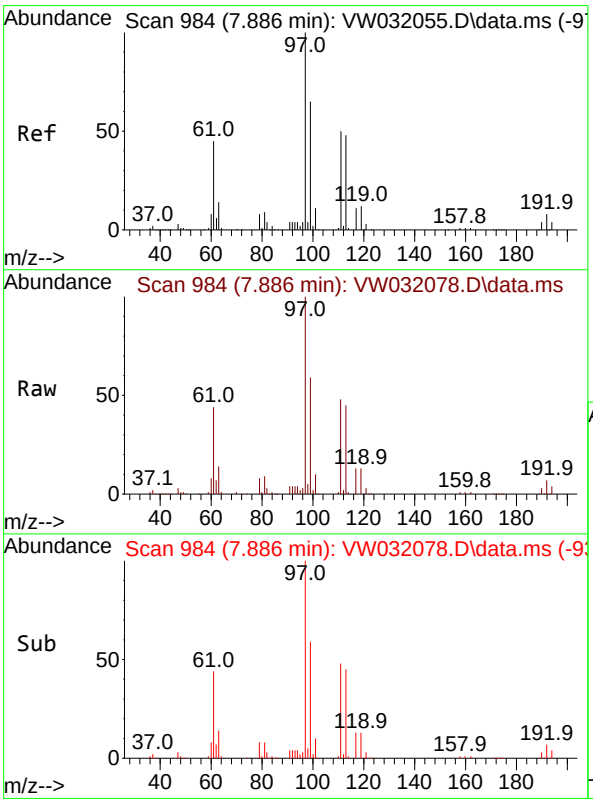
#31
Cyclohexane
Concen: 43.259 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 200498

Ion	Ratio	Lower	Upper
56	100		
69	35.5	28.6	42.8
84	91.7	73.0	109.4

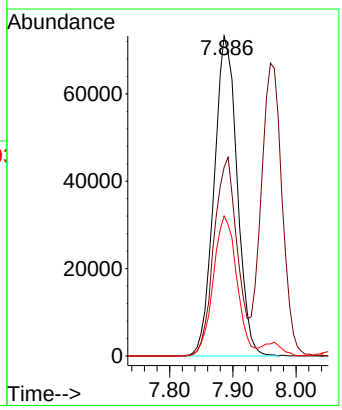


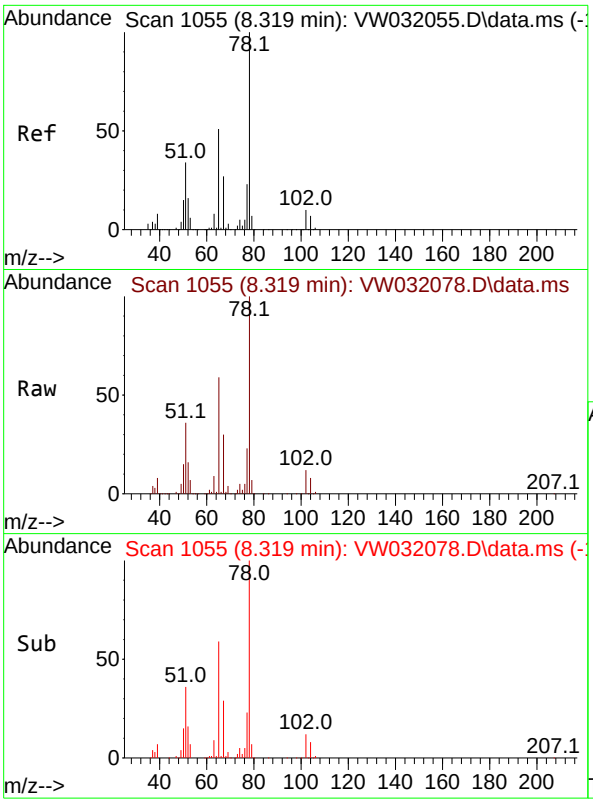


#32
1,1,1-Trichloroethane
Concen: 44.949 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 97 Resp: 185041

Ion	Ratio	Lower	Upper
97	100		
99	62.2	51.8	77.8
61	44.8	35.9	53.9



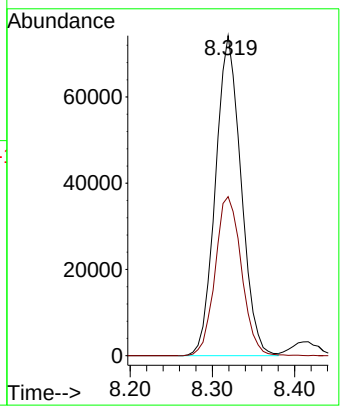


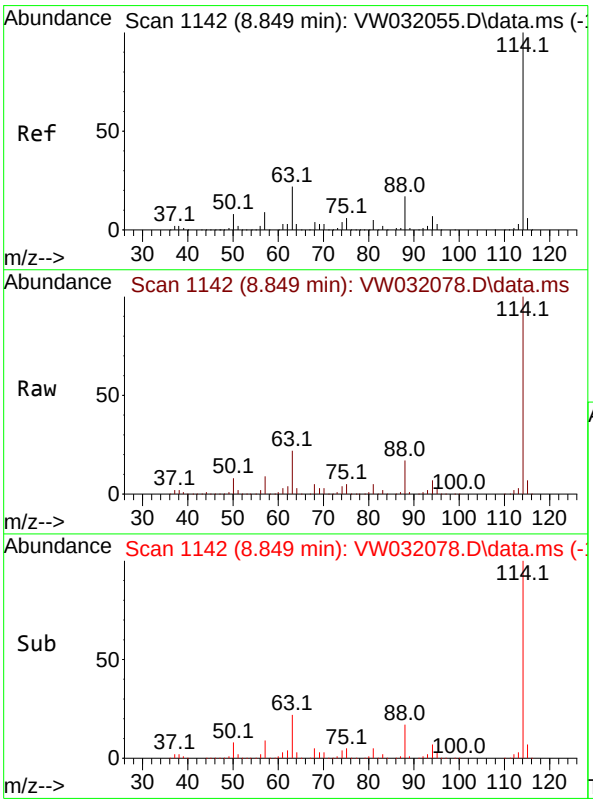
#33
1,2-Dichloroethane-d4
Concen: 49.202 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 160017

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	102.4

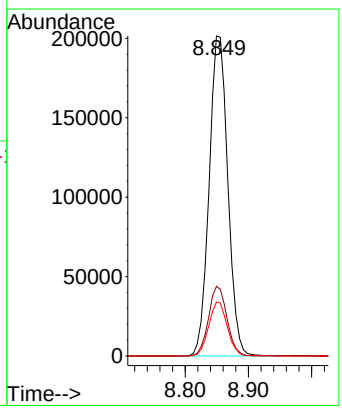


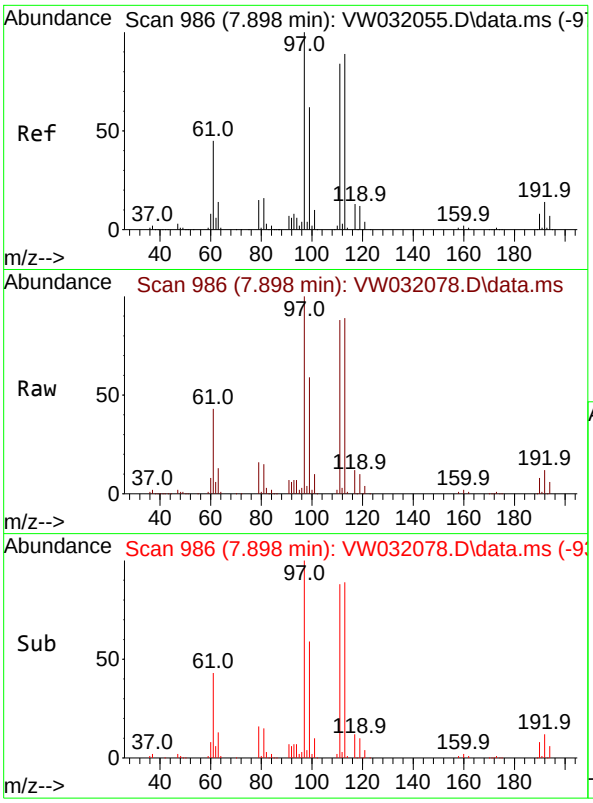


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:114 Resp: 413610

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.0
88	16.8	0.0	33.8



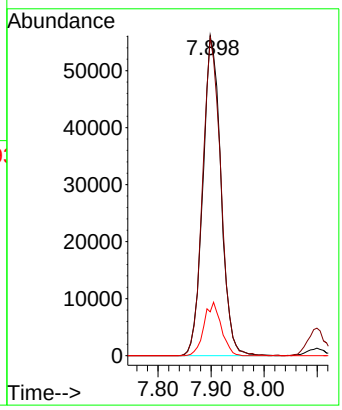


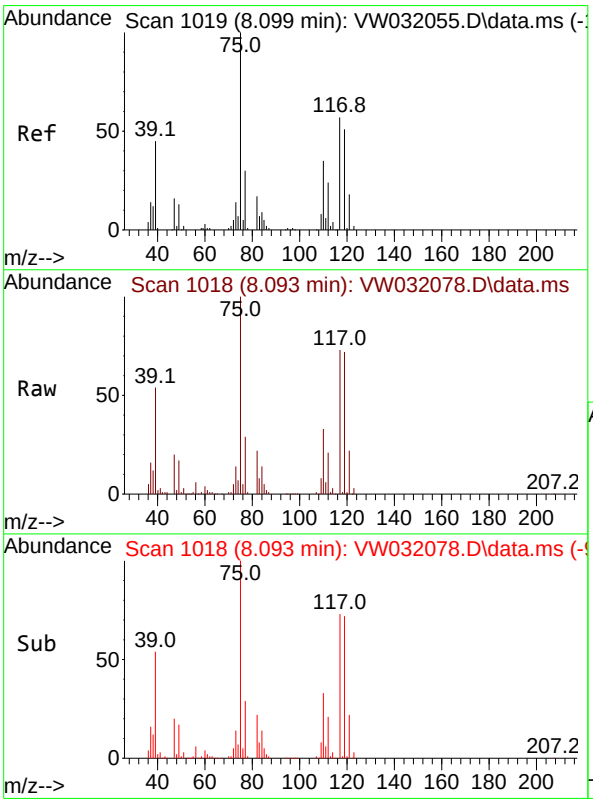
#35
Dibromofluoromethane
Concen: 49.565 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 132442

Ion	Ratio	Lower	Upper
113	100		
111	100.2	80.1	120.1
192	16.0	13.1	19.7

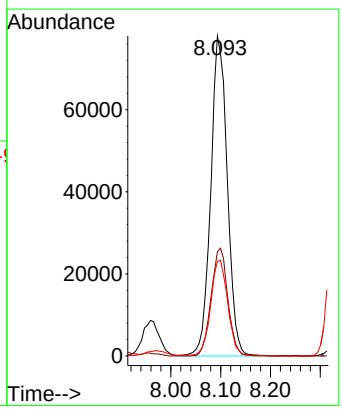


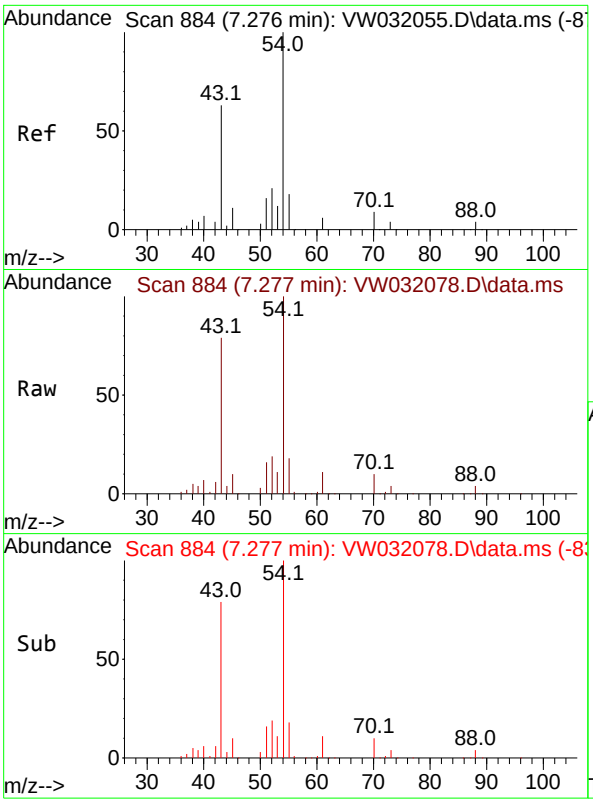


#36
1,1-Dichloropropene
Concen: 47.825 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 180151

Ion	Ratio	Lower	Upper
75	100		
110	33.9	17.4	52.2
77	30.9	24.7	37.1



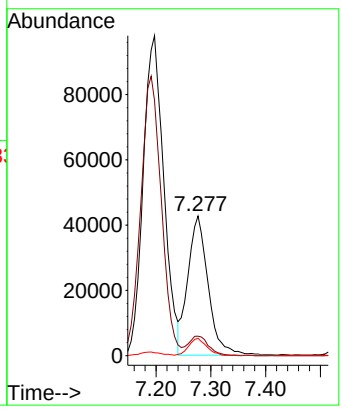


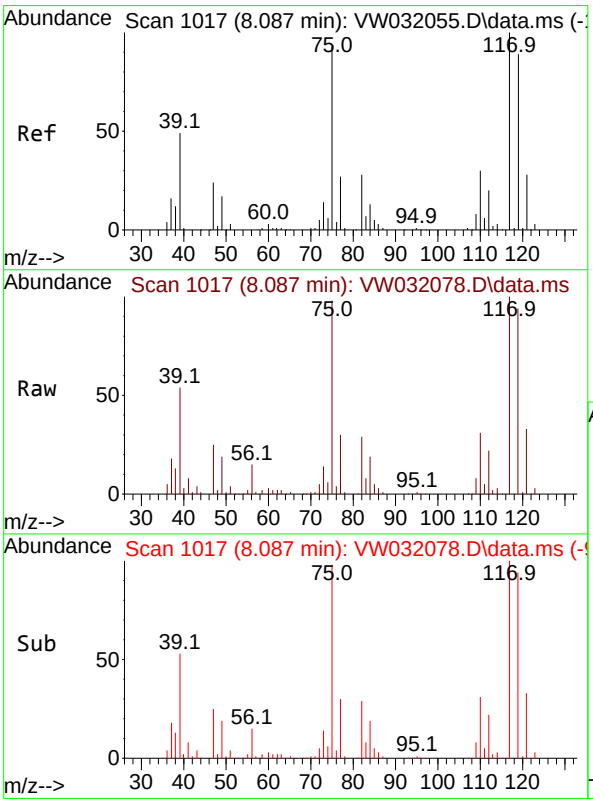
#37
Ethyl Acetate
Concen: 49.608 ug/l
RT: 7.277 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 110057

Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.8	17.6
70	11.2	9.4	14.0

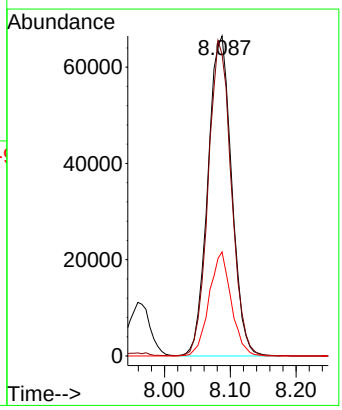


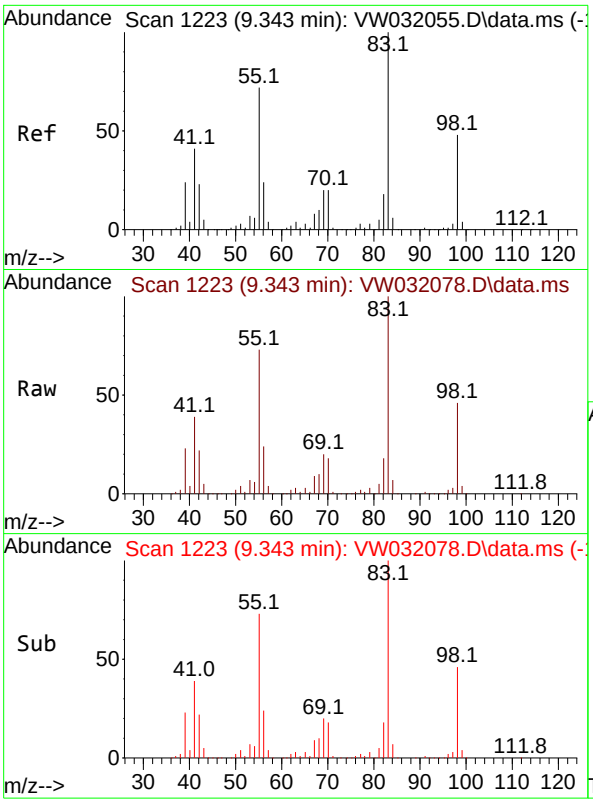


#38
Carbon Tetrachloride
Concen: 46.065 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 167458

Ion	Ratio	Lower	Upper
117	100		
119	94.2	71.4	107.2
121	32.5	22.3	33.5



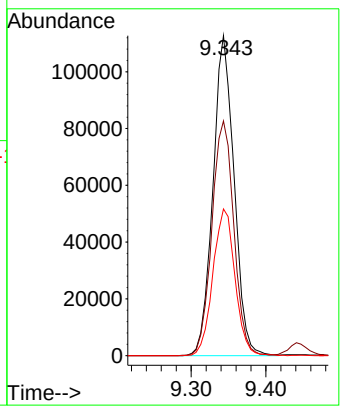


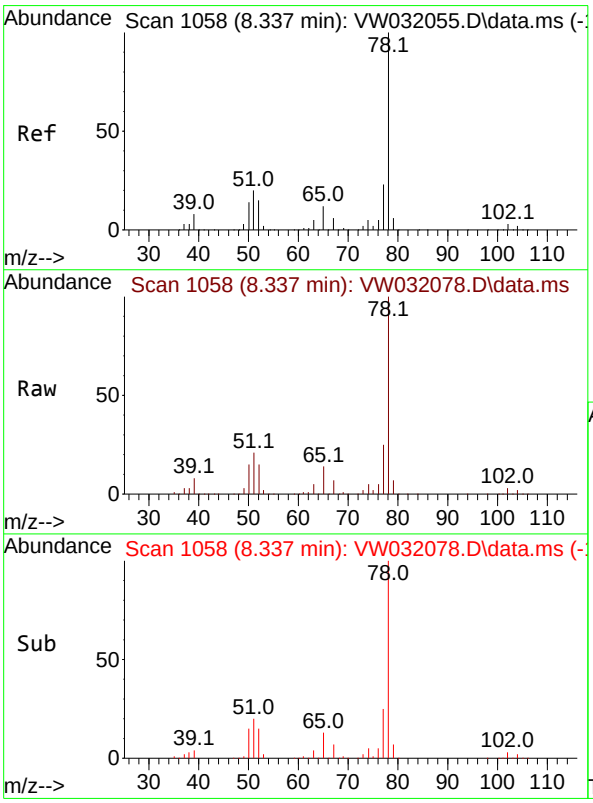
#39
Methylcyclohexane
Concen: 48.261 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 221584

Ion	Ratio	Lower	Upper
83	100		
55	73.3	57.9	86.9
98	45.9	38.3	57.5

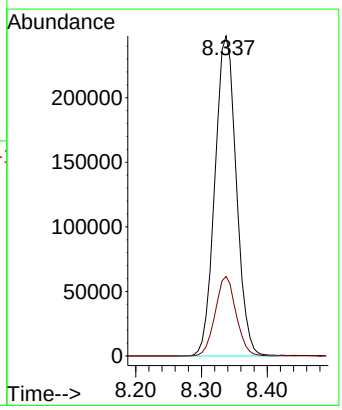


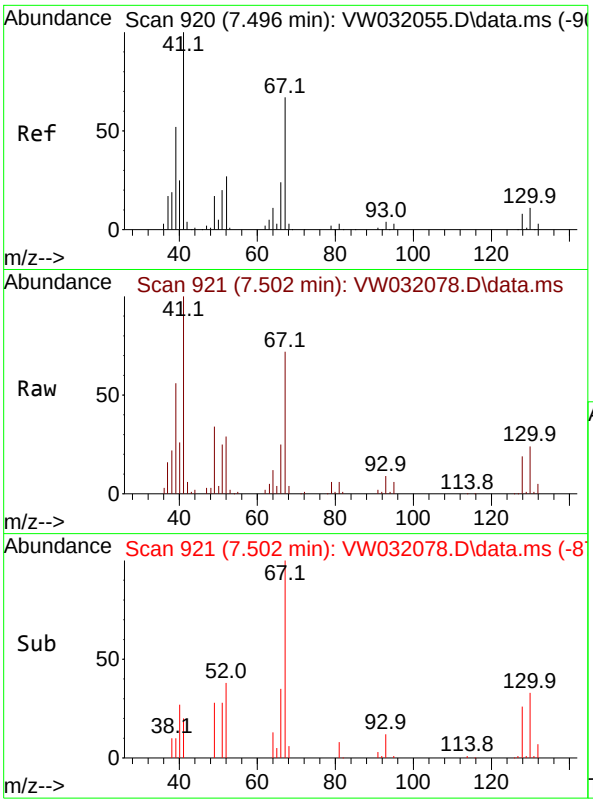


#40
Benzene
Concen: 47.879 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 78 Resp: 560623

Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.4	27.6



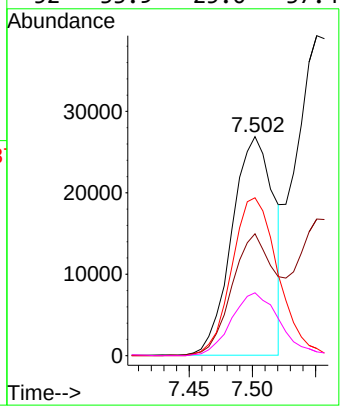


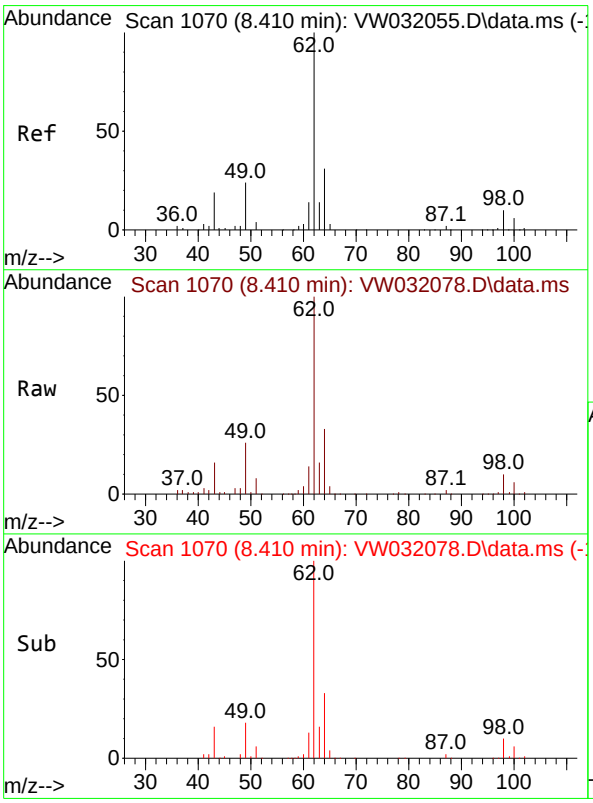
#41
Methacrylonitrile
Concen: 49.286 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 62009

Ion	Ratio	Lower	Upper
41	100		
39	60.4	42.6	63.8
67	79.8	61.0	91.4
52	33.9	25.0	37.4

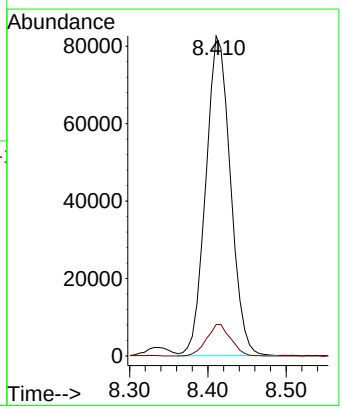


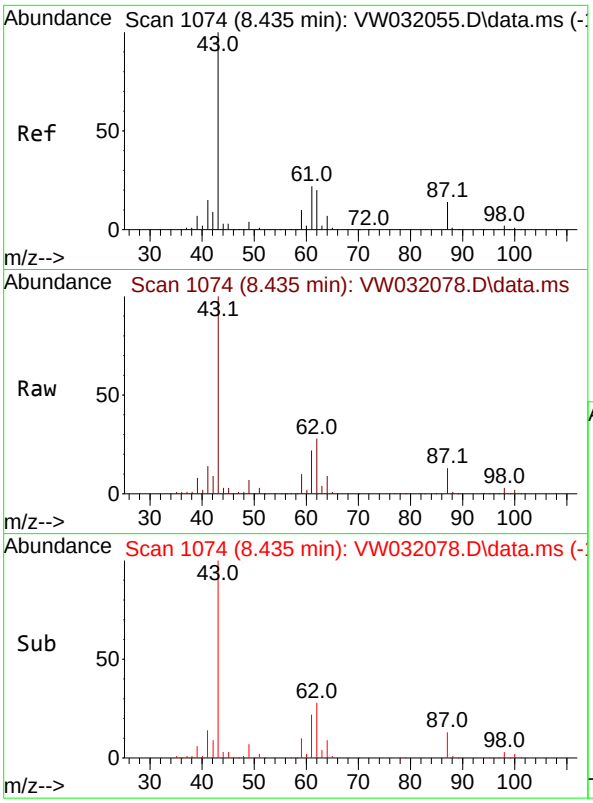


#42
1,2-Dichloroethane
Concen: 48.163 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 180455

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.8



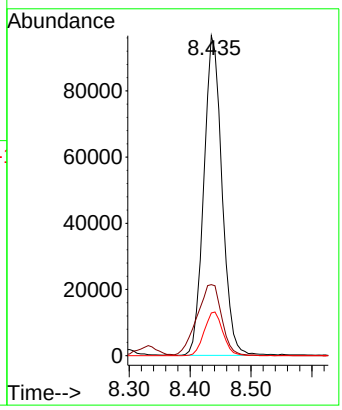


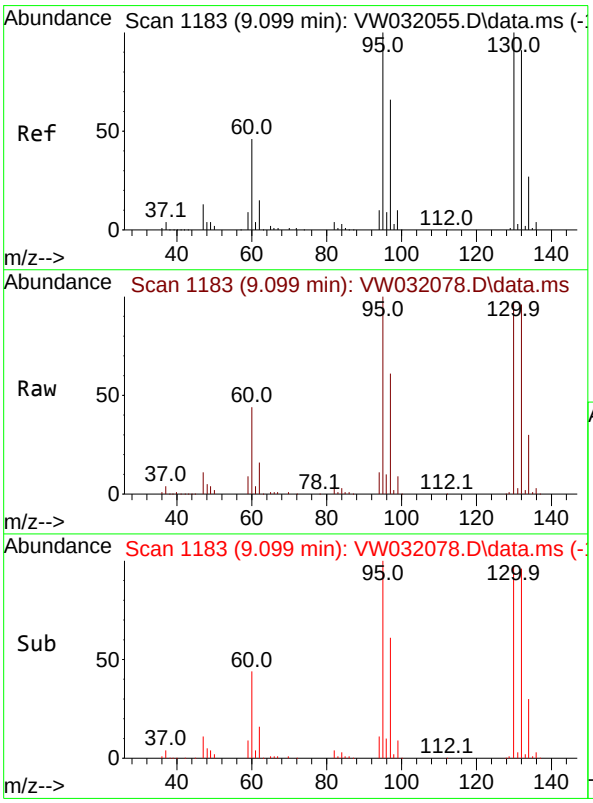
#43
Isopropyl Acetate
Concen: 49.147 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 200606

Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.8	35.8
87	14.1	11.7	17.5

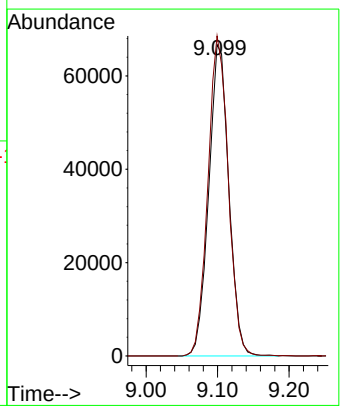


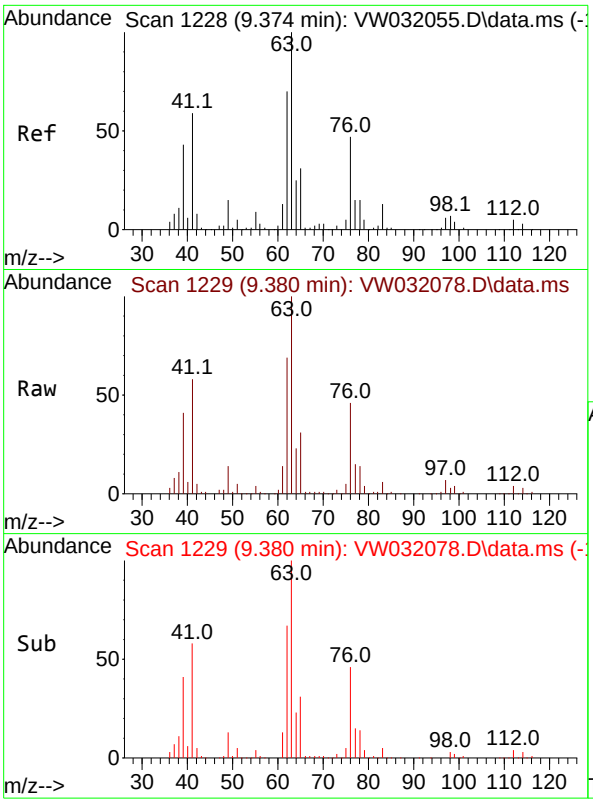


#44
Trichloroethene
Concen: 46.608 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:130 Resp: 129965

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	200.6



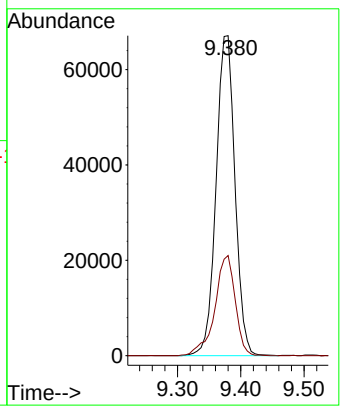


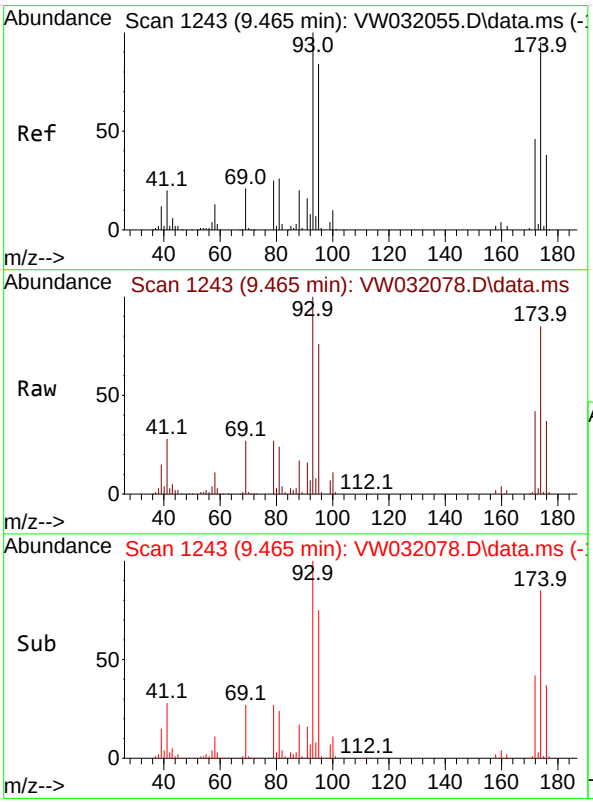
#45
1,2-Dichloropropane
Concen: 49.043 ug/l
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 138731

Ion	Ratio	Lower	Upper
63	100		
65	31.3	24.6	36.8

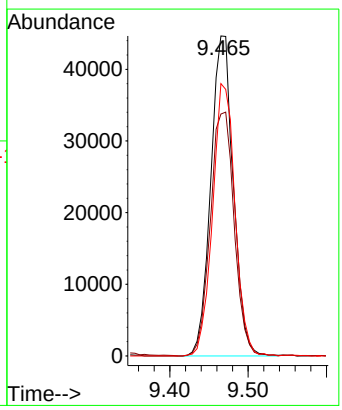


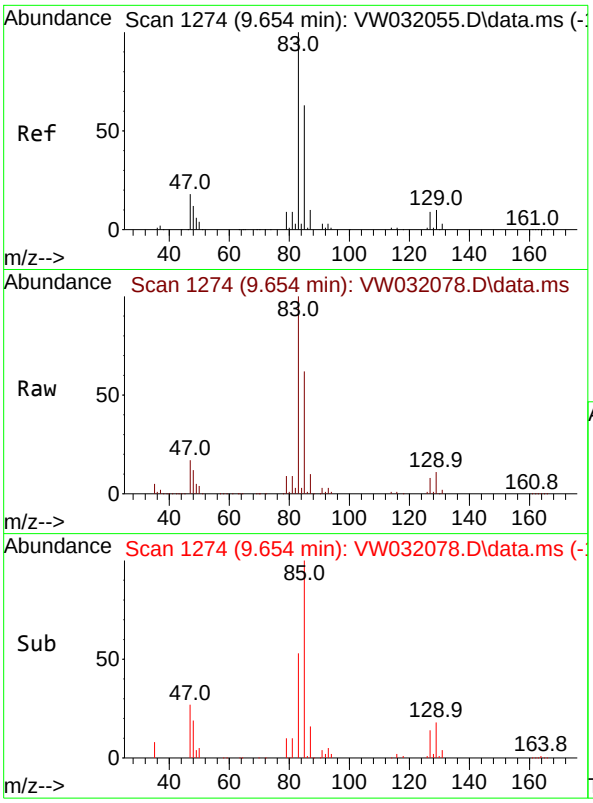


#46
Dibromomethane
Concen: 48.945 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 93 Resp: 89360

Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.3	97.9
174	84.5	68.6	102.8



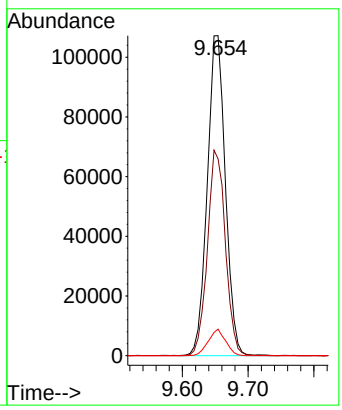


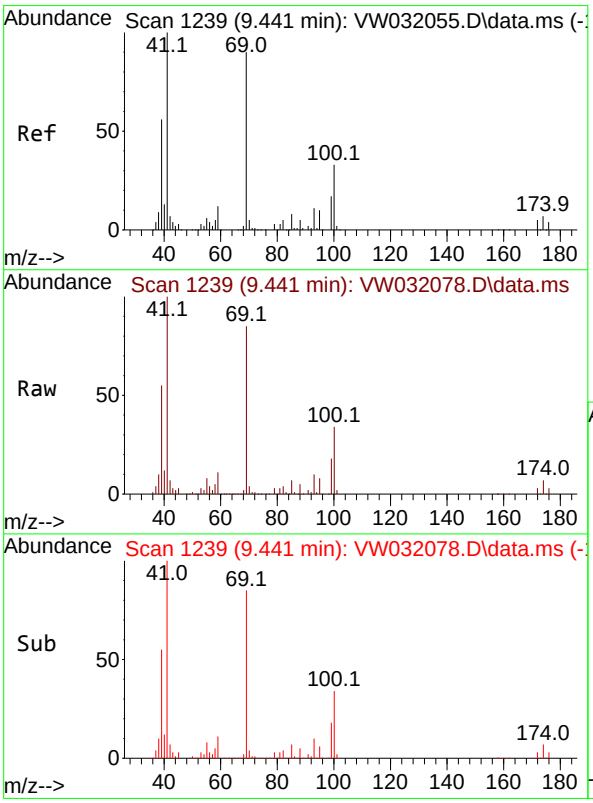
#47
Bromodichloromethane
Concen: 48.852 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 205517

Ion	Ratio	Lower	Upper
83	100		
85	61.5	50.6	75.8
127	8.3	6.9	10.3

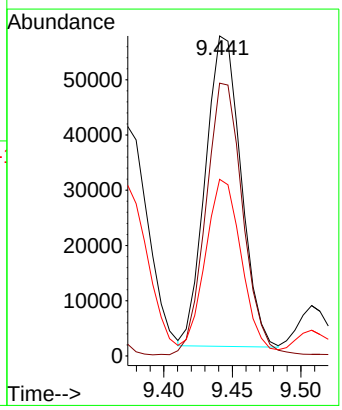


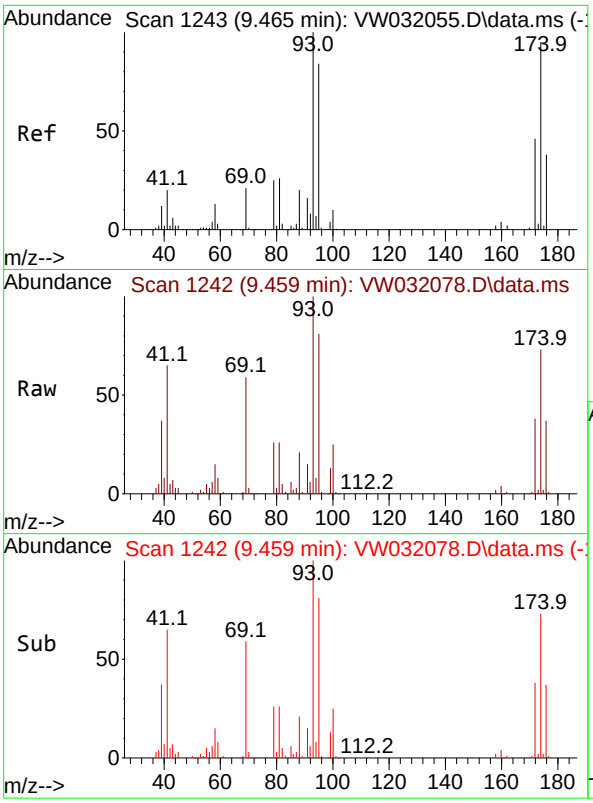


#48
Methyl methacrylate
Concen: 51.471 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 101426

Ion	Ratio	Lower	Upper
41	100		
69	92.0	73.0	109.6
39	58.7	45.0	67.4



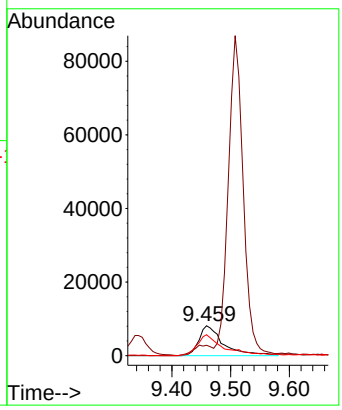


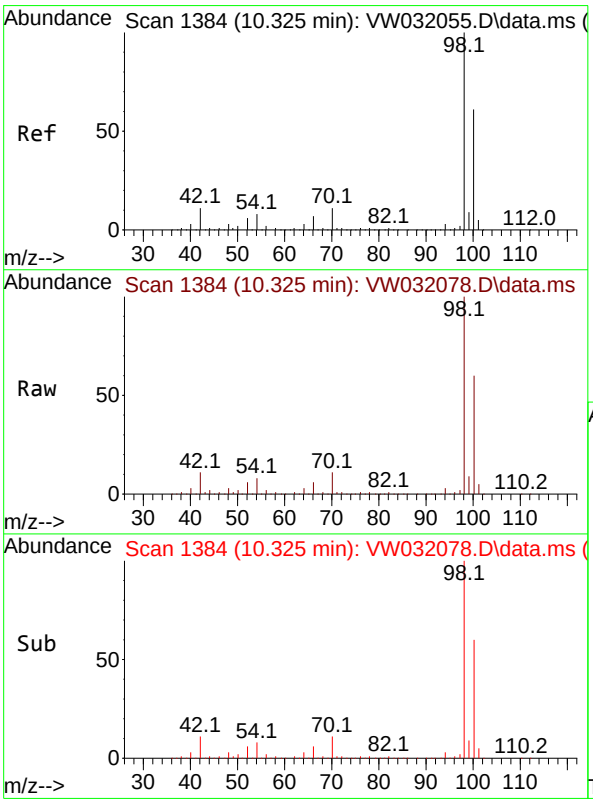
#49
1,4-Dioxane
Concen: 1001.497 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 23641

Ion	Ratio	Lower	Upper
88	100		
43	26.2	20.6	30.8
58	76.7	60.4	90.6

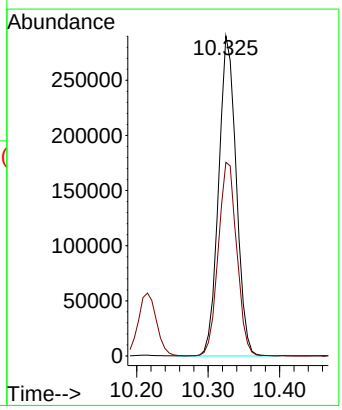


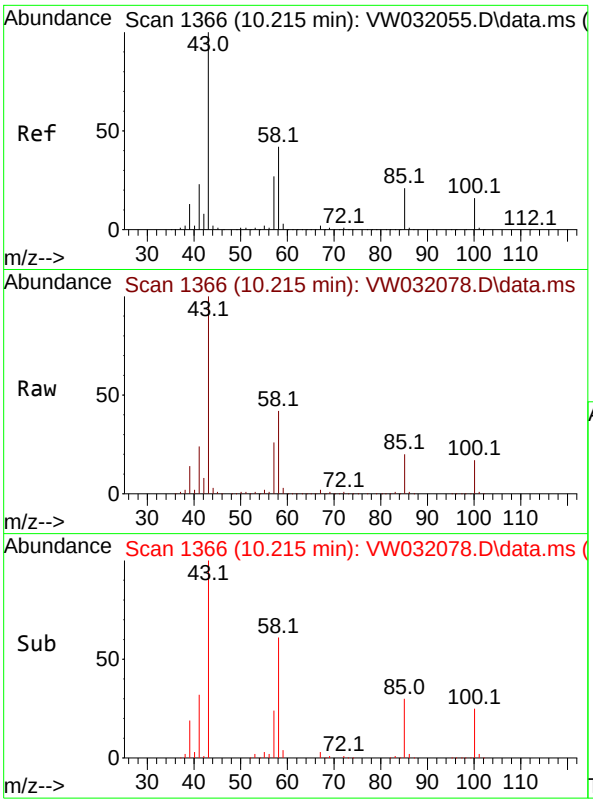


#50
Toluene-d8
Concen: 50.187 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 98 Resp: 496013

Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.1	76.7



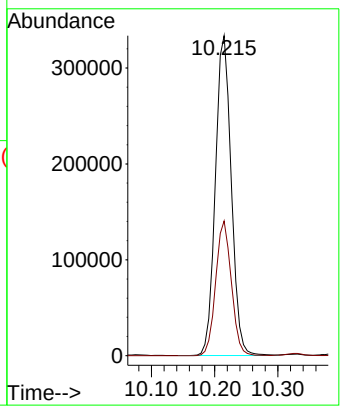


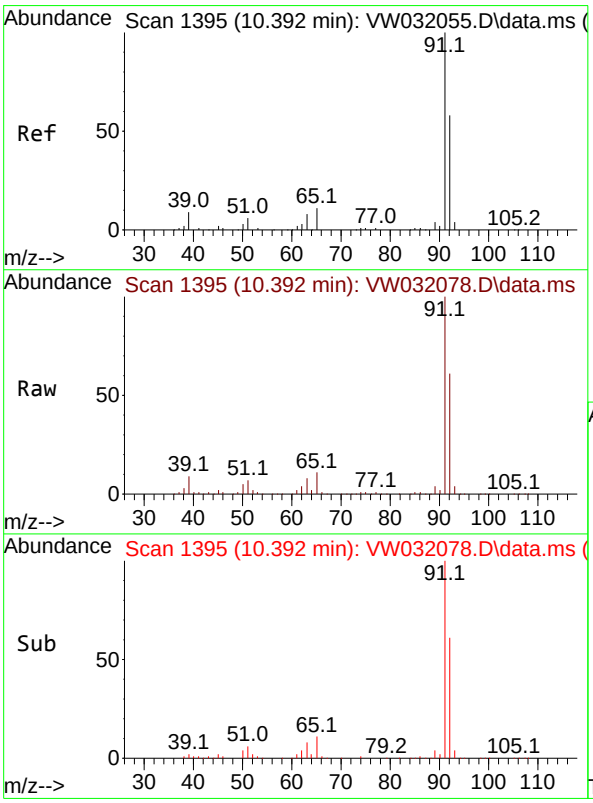
#51
4-Methyl-2-Pentanone
Concen: 252.344 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 581370

Ion	Ratio	Lower	Upper
43	100		
58	41.5	33.1	49.7

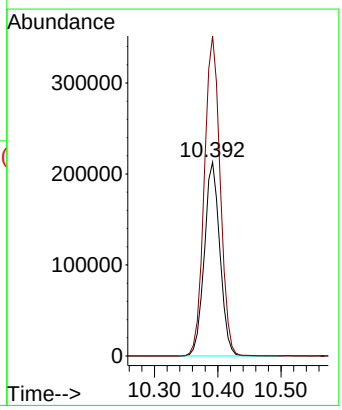


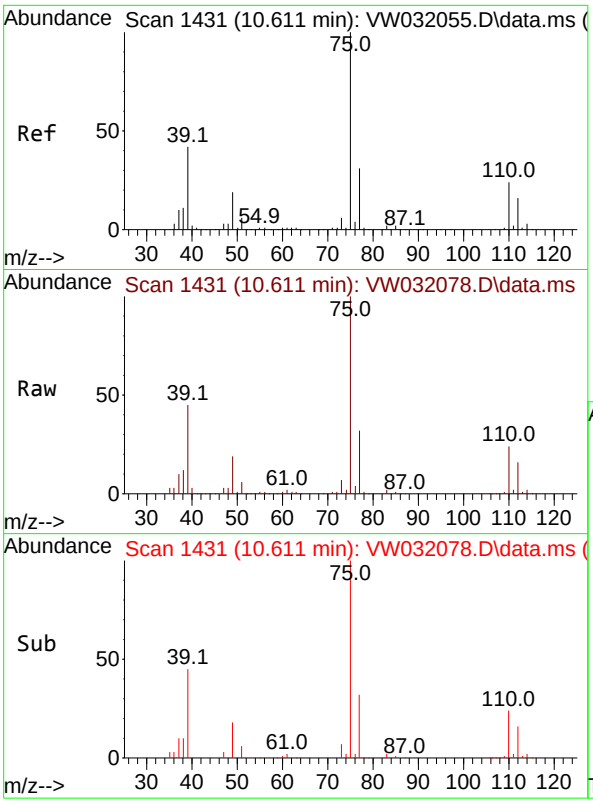


#52
Toluene
Concen: 49.271 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 92 Resp: 363384

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.3	204.5



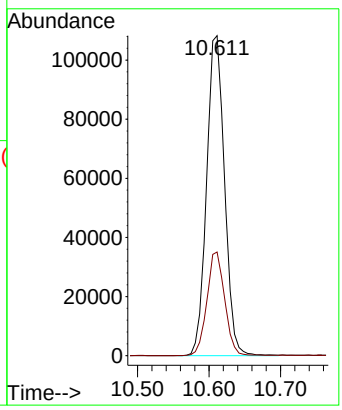


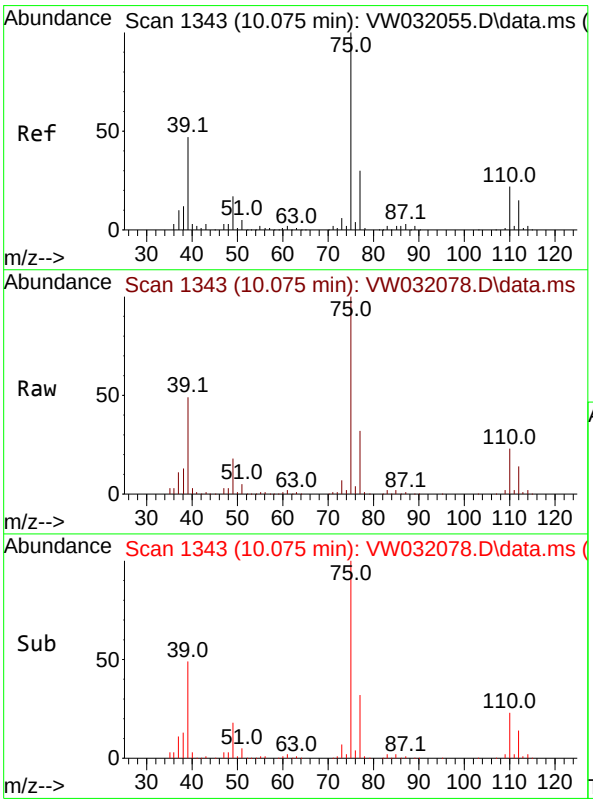
#53
t-1,3-Dichloropropene
Concen: 47.848 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 188585

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.0	37.6

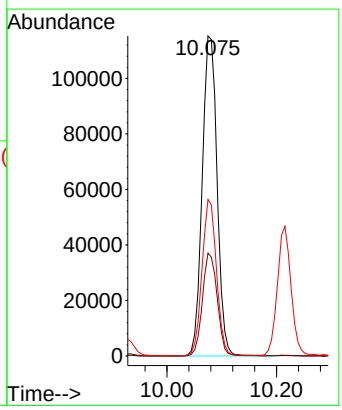


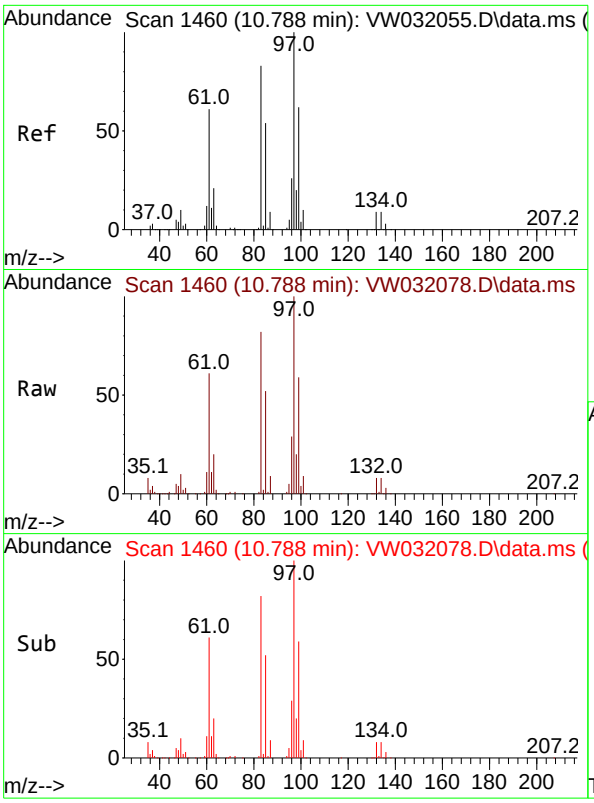


#54
cis-1,3-Dichloropropene
Concen: 48.425 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 216528

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.0	36.0
39	48.8	37.8	56.8



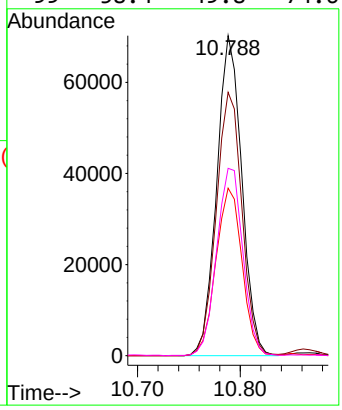


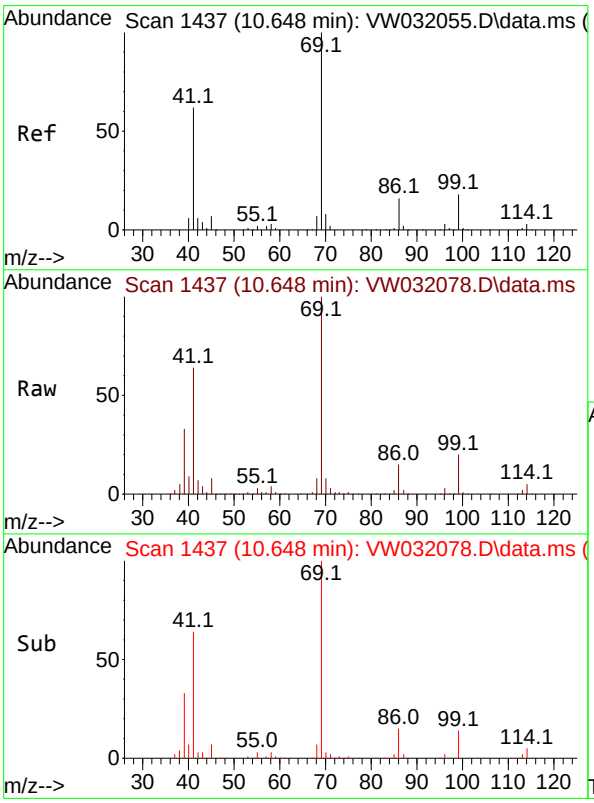
#55
1,1,2-Trichloroethane
Concen: 49.042 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 118978

Ion	Ratio	Lower	Upper
97	100		
83	82.3	66.4	99.6
85	52.4	43.1	64.7
99	58.4	49.8	74.6

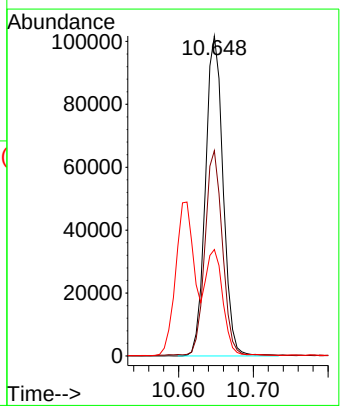


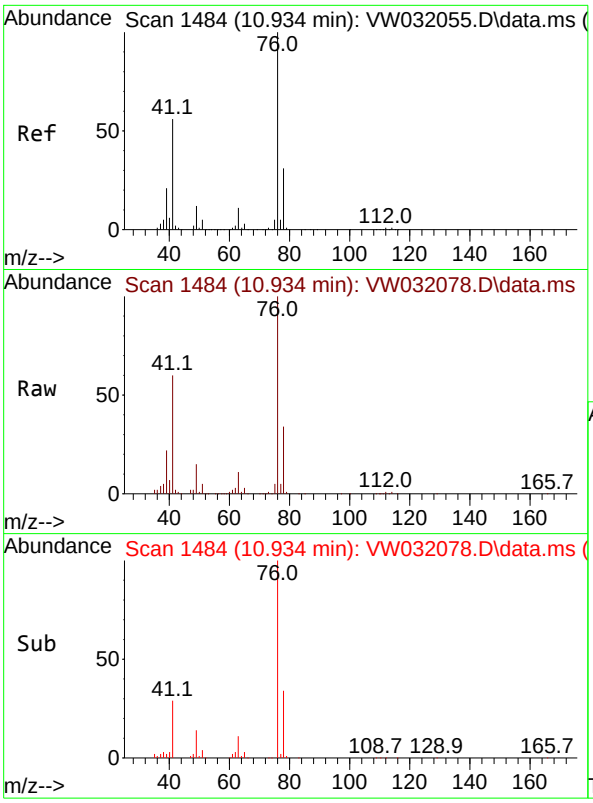


#56
Ethyl methacrylate
Concen: 51.306 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 69 Resp: 166567

Ion	Ratio	Lower	Upper
69	100		
41	64.1	51.2	76.8
39	32.3	25.4	38.0



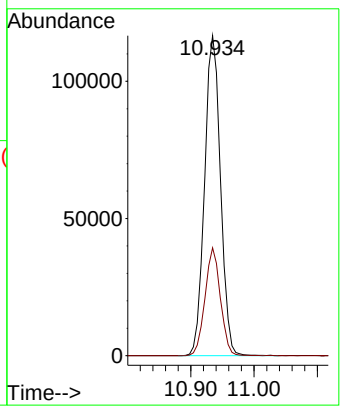


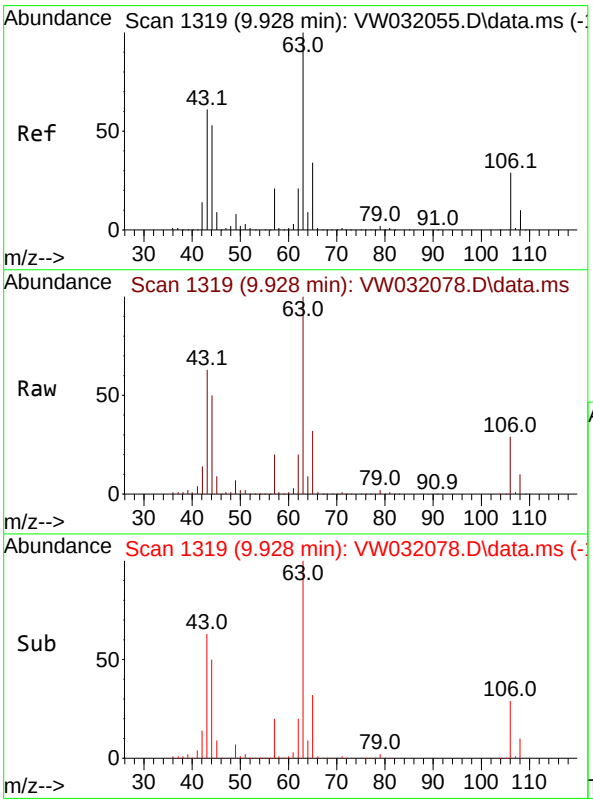
#57
1,3-Dichloropropane
Concen: 48.292 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 204220

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.6

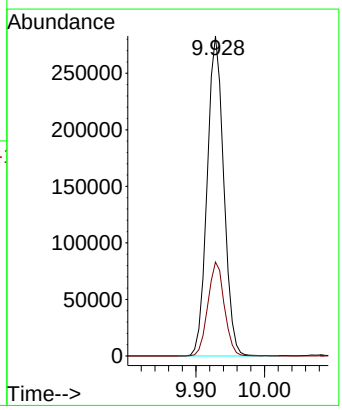


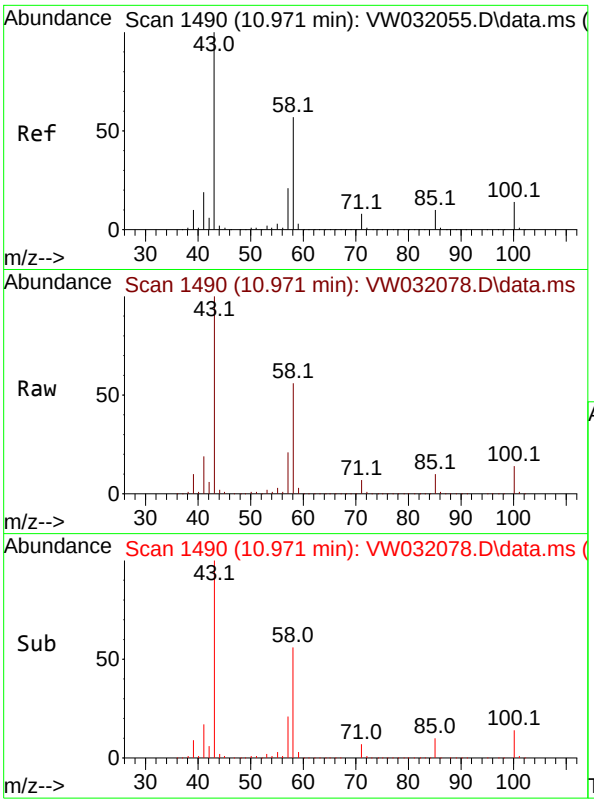


#58
2-Chloroethyl Vinyl ether
Concen: 265.209 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 476248

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.5	35.3



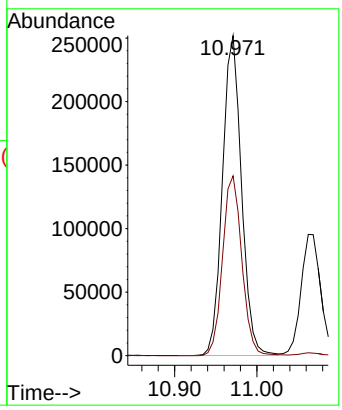


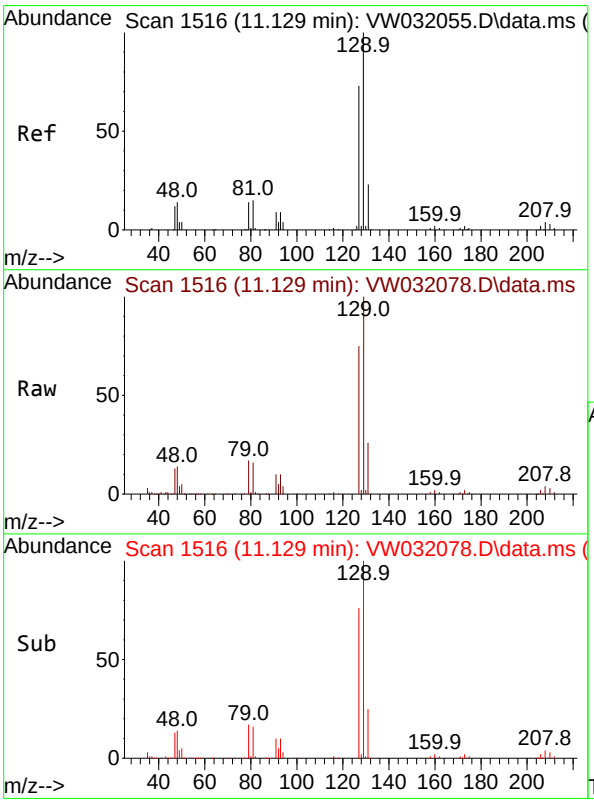
#59
2-Hexanone
Concen: 253.545 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 404553

Ion	Ratio	Lower	Upper
43	100		
58	56.9	28.3	85.0

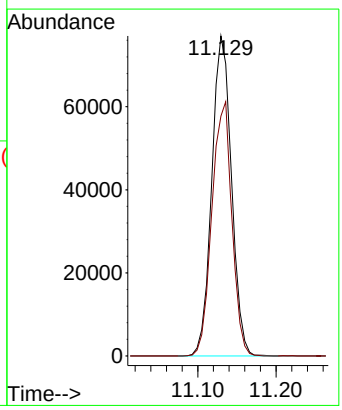


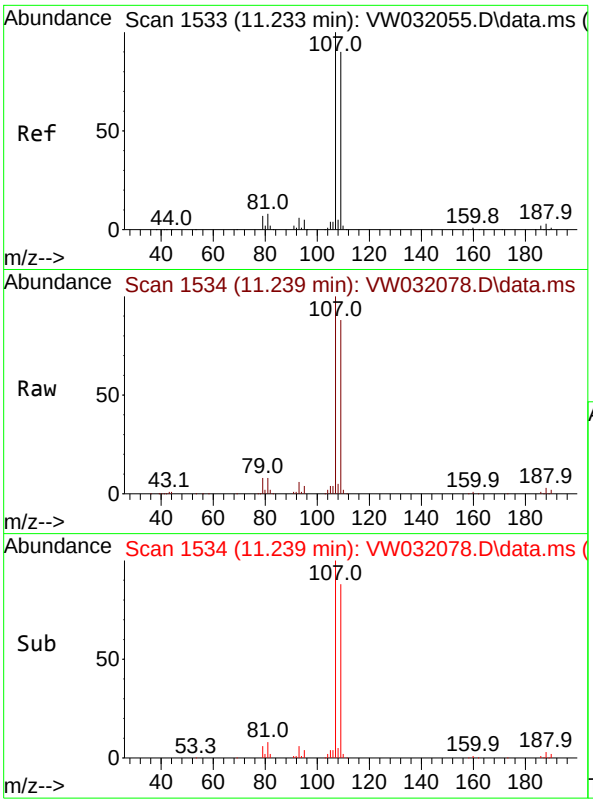


#60
Dibromochloromethane
Concen: 48.560 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:129 Resp: 134574

Ion	Ratio	Lower	Upper
129	100		
127	80.4	39.0	116.9



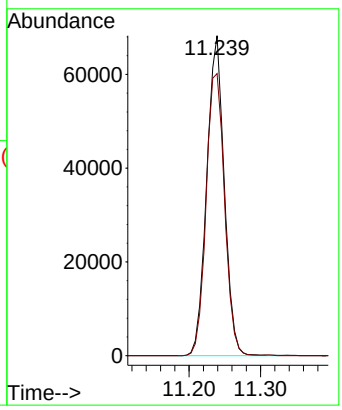


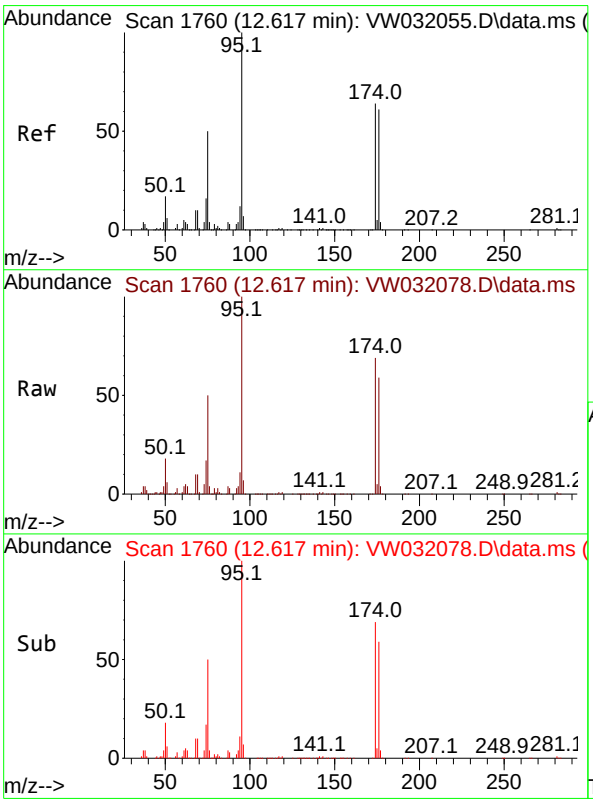
#61
1,2-Dibromoethane
Concen: 49.186 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 115961

Ion	Ratio	Lower	Upper
107	100		
109	92.9	74.2	111.4

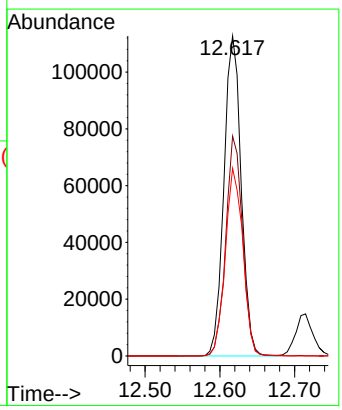


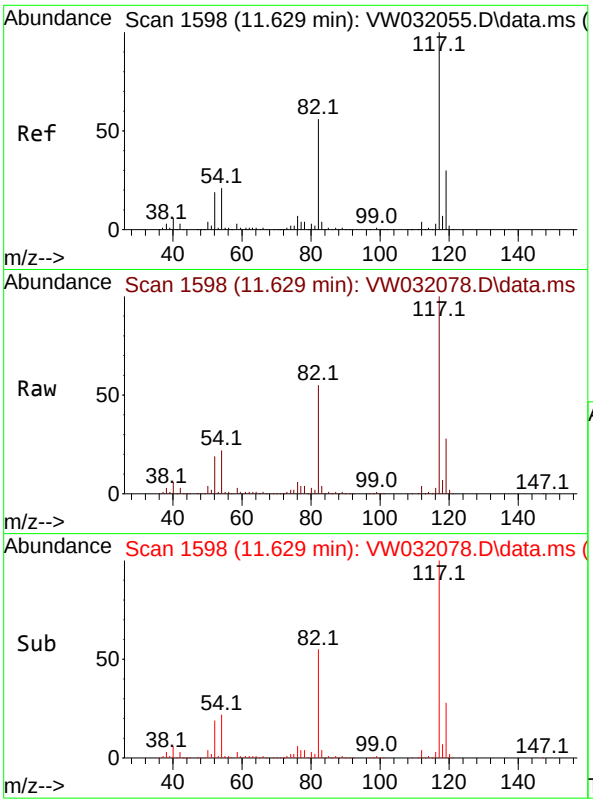


#62
4-Bromofluorobenzene
Concen: 49.666 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 95 Resp: 180889

Ion	Ratio	Lower	Upper
95	100		
174	66.8	0.0	129.0
176	59.8	0.0	124.6



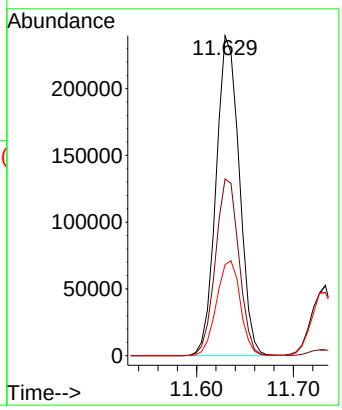


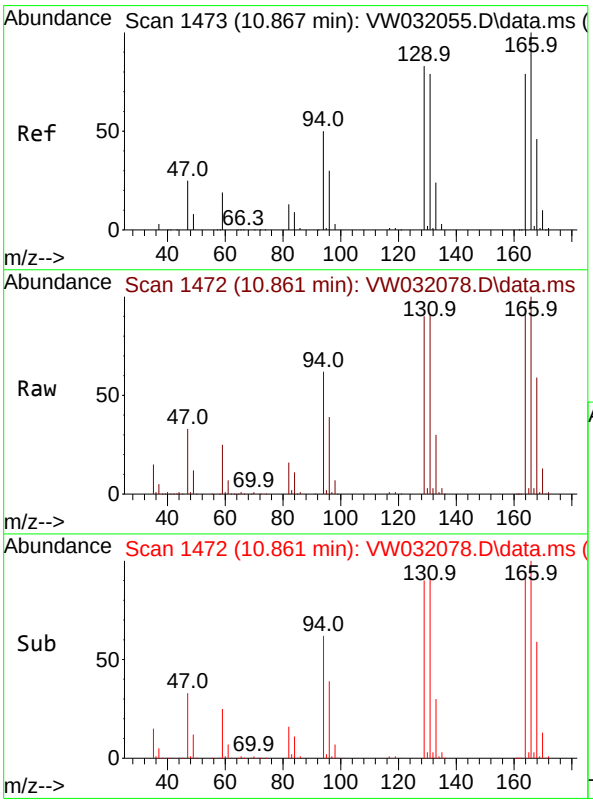
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 399228

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.0	67.4
119	28.4	24.2	36.4

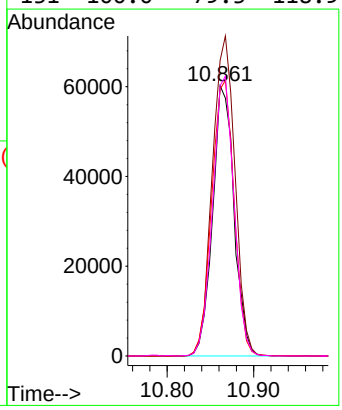


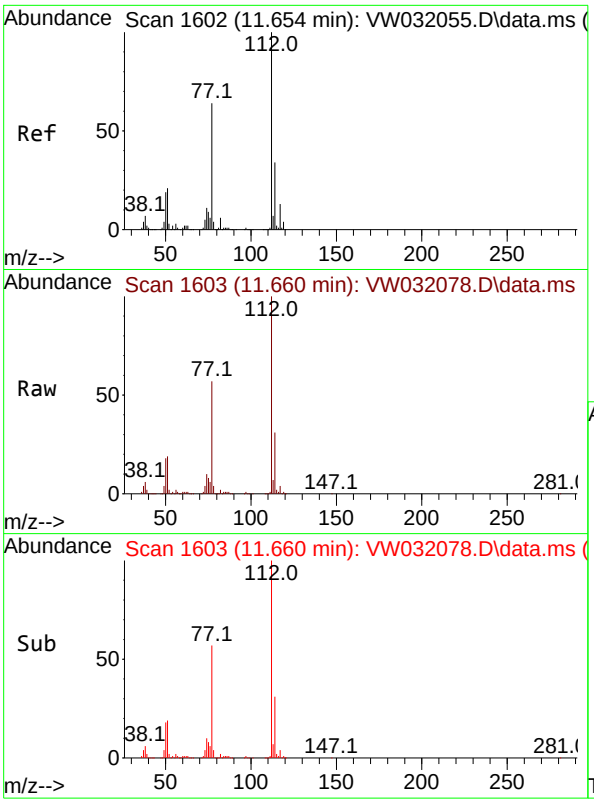


#64
Tetrachloroethene
Concen: 44.767 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:164 Resp: 103230

Ion	Ratio	Lower	Upper
164	100		
166	109.4	100.9	151.3
129	98.7	83.6	125.4
131	100.0	79.3	118.9



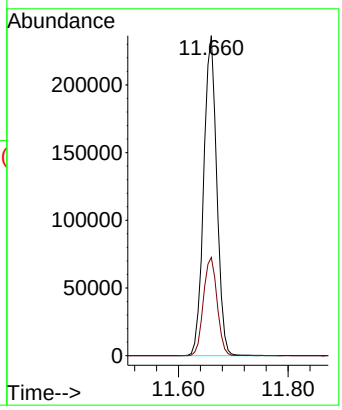


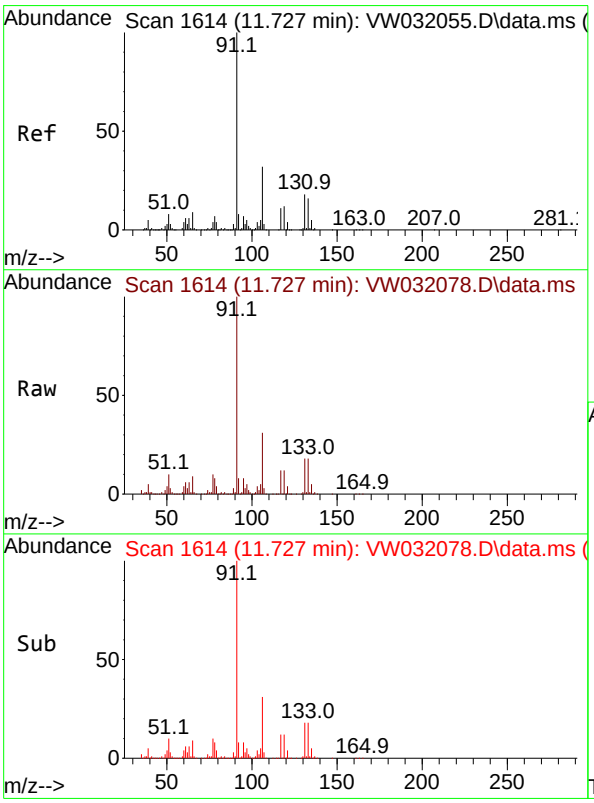
#65
Chlorobenzene
Concen: 44.896 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 390137

Ion	Ratio	Lower	Upper
112	100		
114	30.7	26.9	40.3

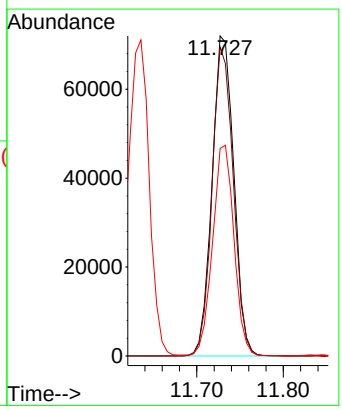


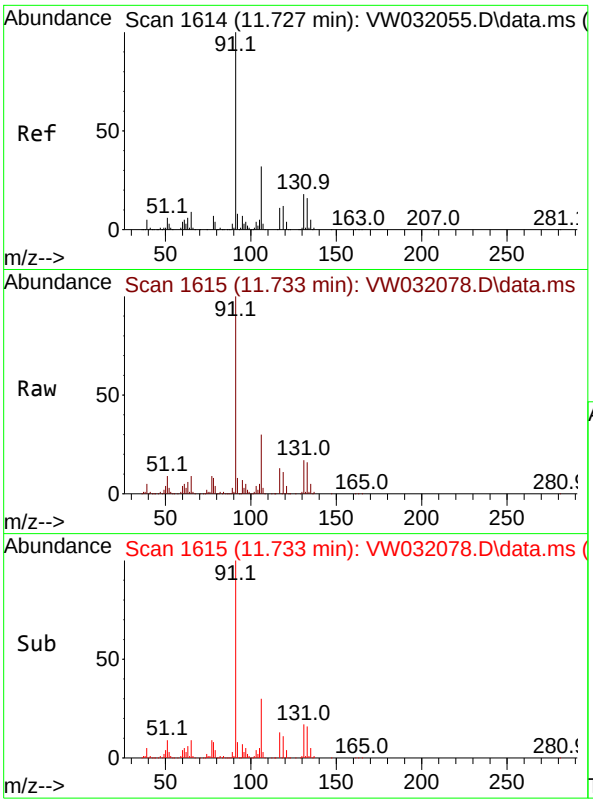


#66
1,1,1,2-Tetrachloroethane
Concen: 46.243 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:131 Resp: 125374

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	142.0
119	65.2	34.5	103.5



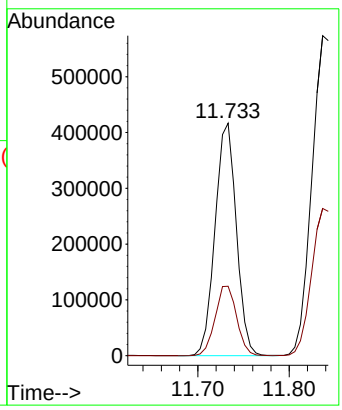


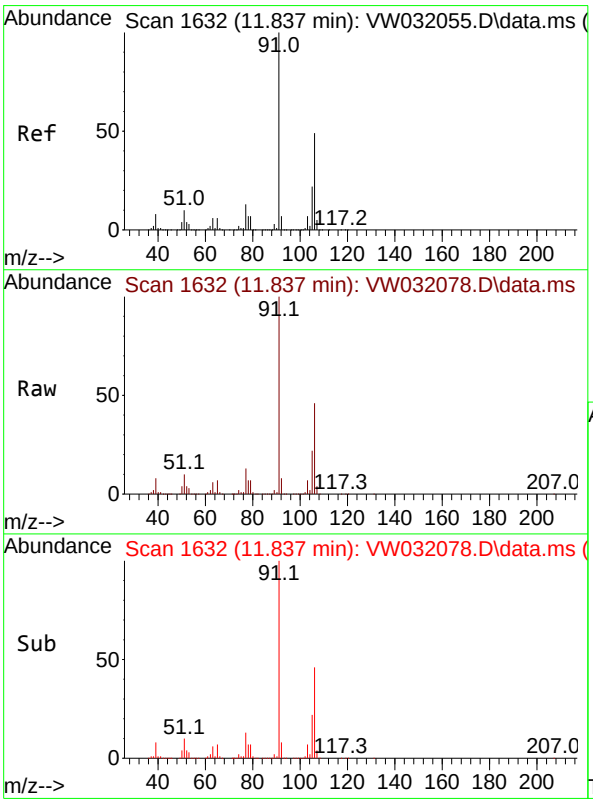
#67
Ethyl Benzene
Concen: 45.839 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 674717

Ion	Ratio	Lower	Upper
91	100		
106	29.9	25.4	38.0

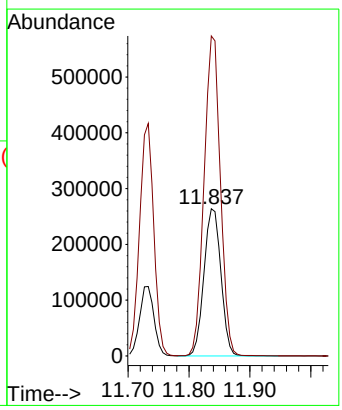


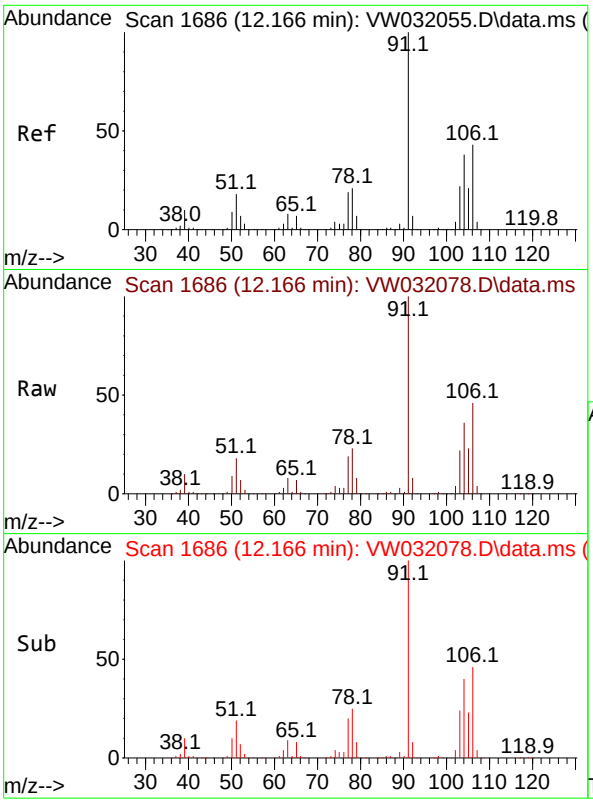


#68
m/p-Xylenes
Concen: 89.674 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:106 Resp: 509322

Ion	Ratio	Lower	Upper
106	100		
91	209.4	162.2	243.2



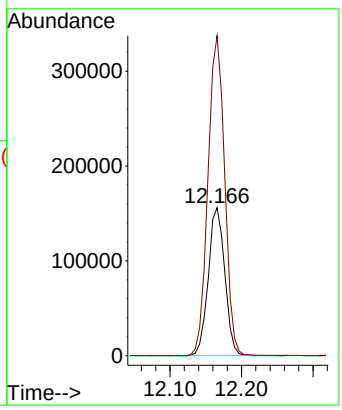


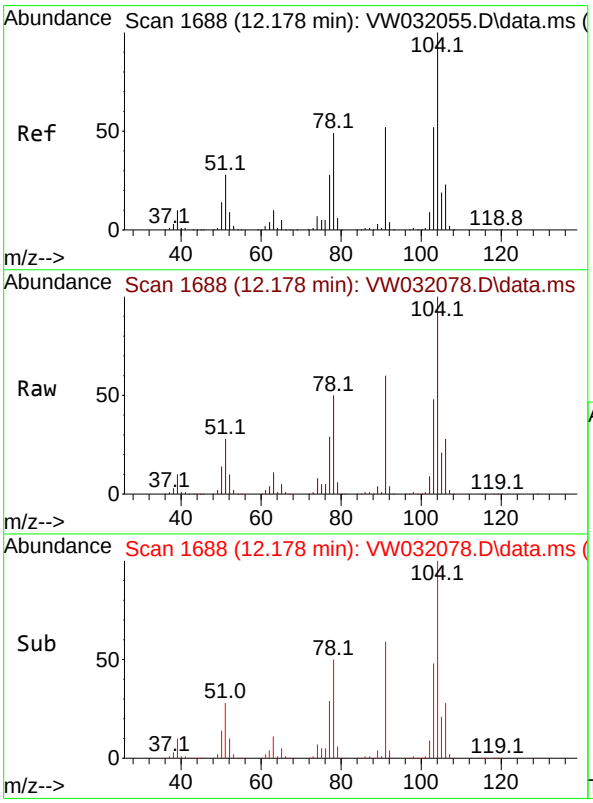
#69
o-Xylene
Concen: 47.586 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 249805

Ion	Ratio	Lower	Upper
106	100		
91	219.3	110.8	332.3

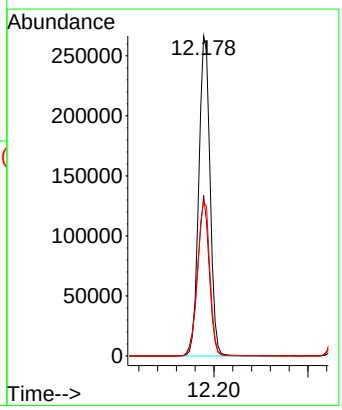


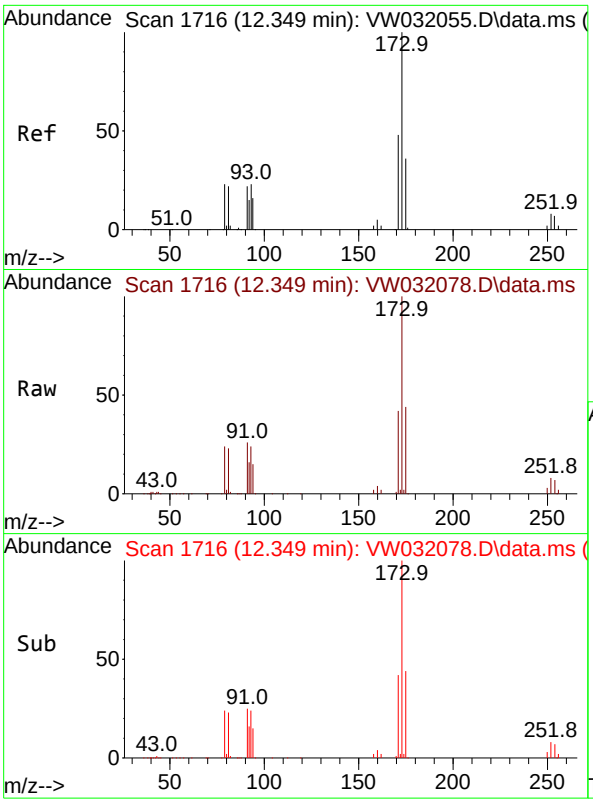


#70
Styrene
Concen: 47.626 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:104 Resp: 444091

Ion	Ratio	Lower	Upper
104	100		
78	51.3	41.2	61.8
103	53.0	43.8	65.8



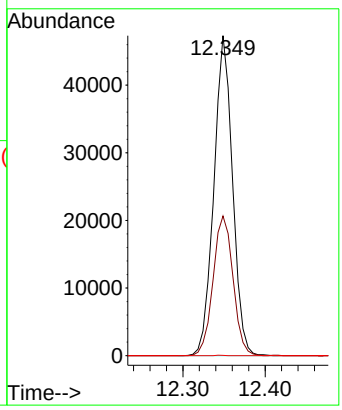


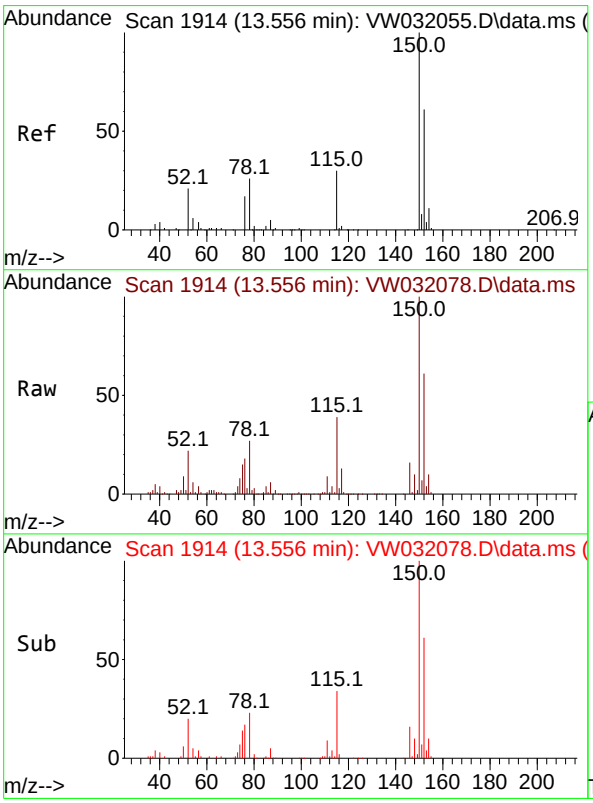
#71
Bromoform
Concen: 48.185 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 74729

Ion	Ratio	Lower	Upper
173	100		
175	46.6	22.9	68.7
254	0.1	0.0	0.0#

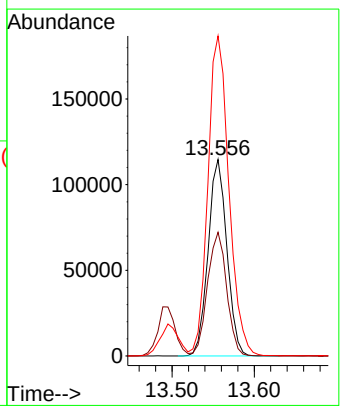


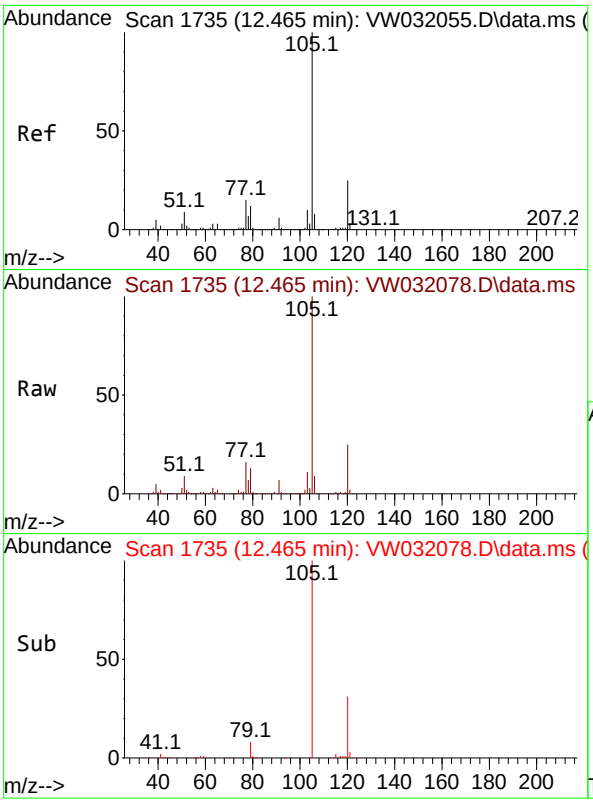


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:152 Resp: 181926

Ion	Ratio	Lower	Upper
152	100		
115	64.3	32.6	97.8
150	182.0	0.0	359.4



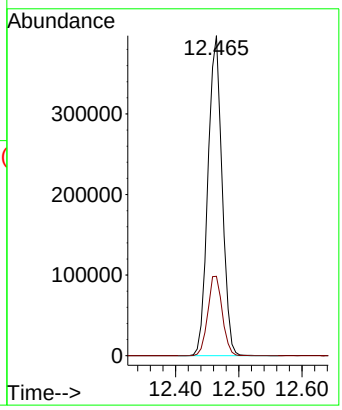


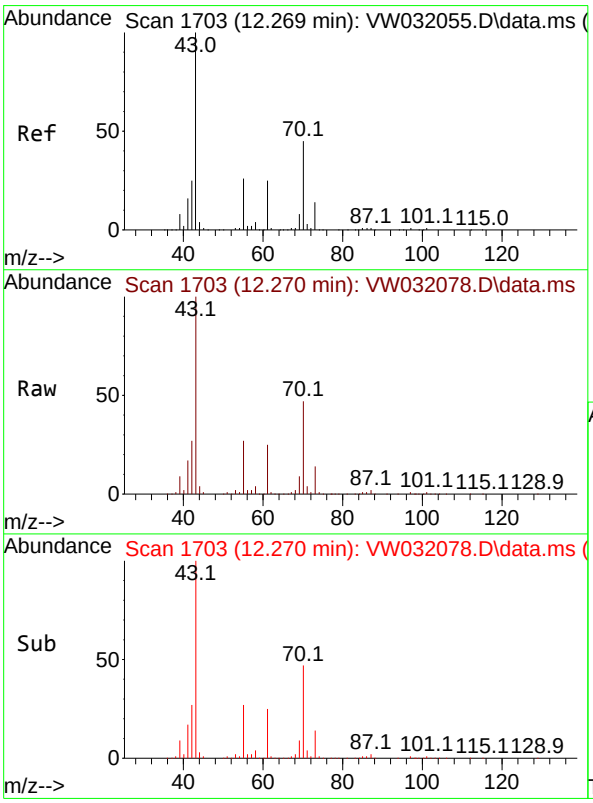
#73
Isopropylbenzene
Concen: 48.421 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 615630

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.4

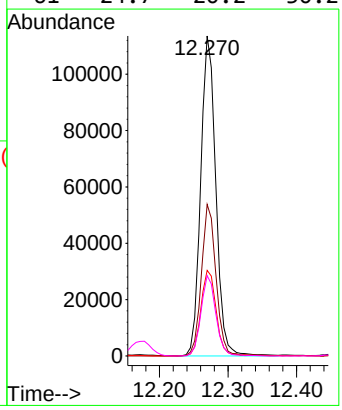


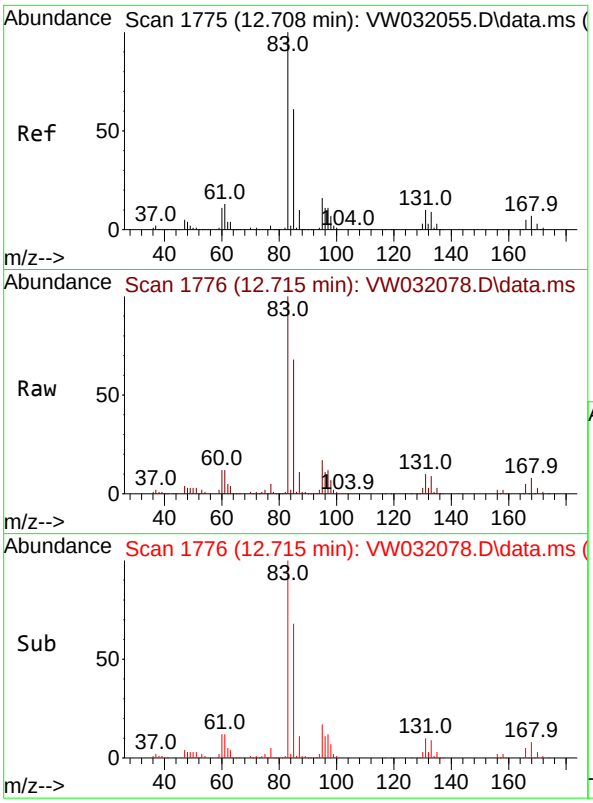


#74
N-amyl acetate
Concen: 47.933 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 174844

Ion	Ratio	Lower	Upper
43	100		
70	45.6	37.0	55.4
55	27.2	21.1	31.7
61	24.7	20.2	30.2



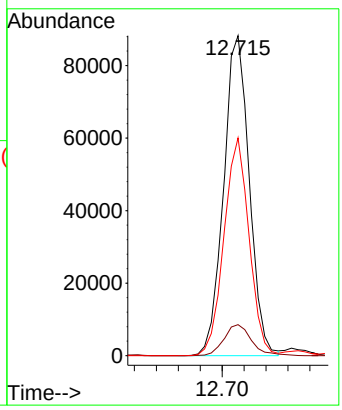


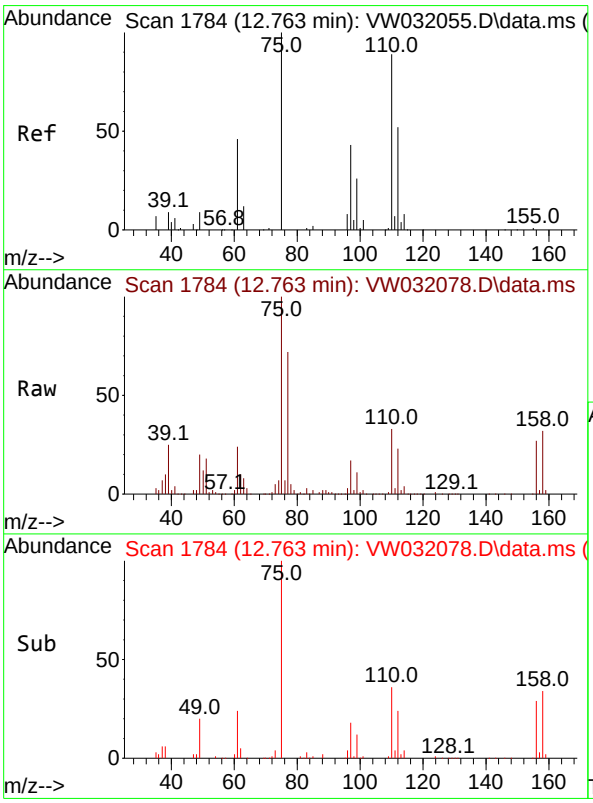
#75
1,1,2,2-Tetrachloroethane
Concen: 47.484 ug/l
RT: 12.715 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 143342

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.1	15.4
85	66.6	32.2	96.6

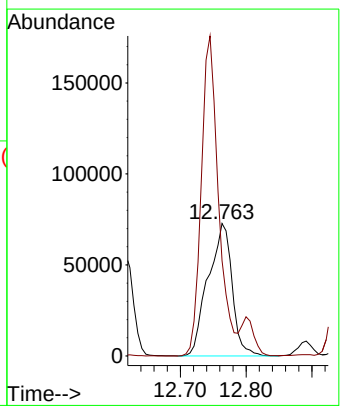


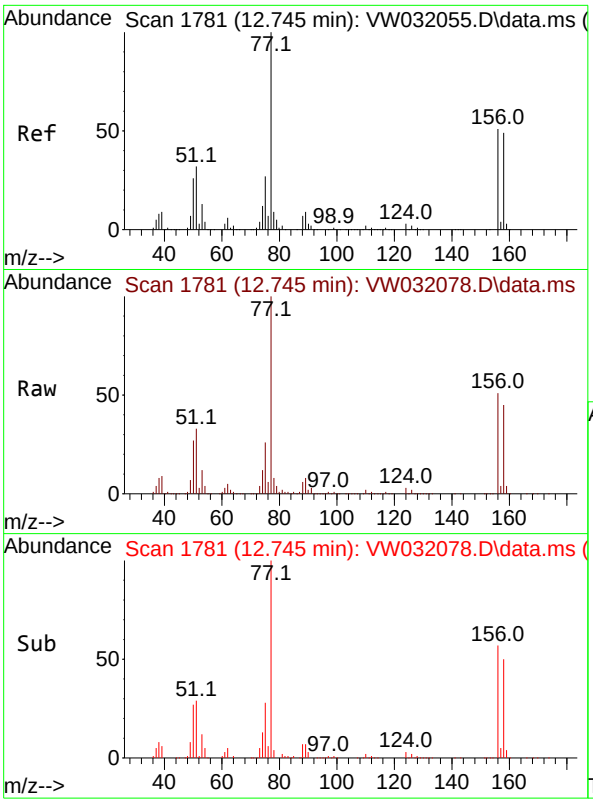


#76
1,2,3-Trichloropropane
Concen: 74.907 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 184957

Ion	Ratio	Lower	Upper
75	100		
77	174.8	123.5	370.5



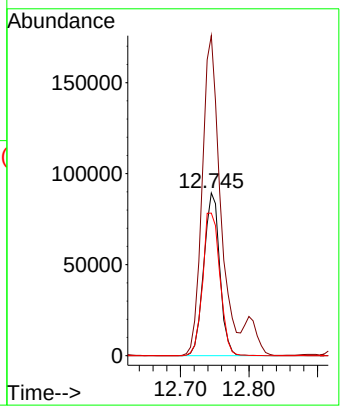


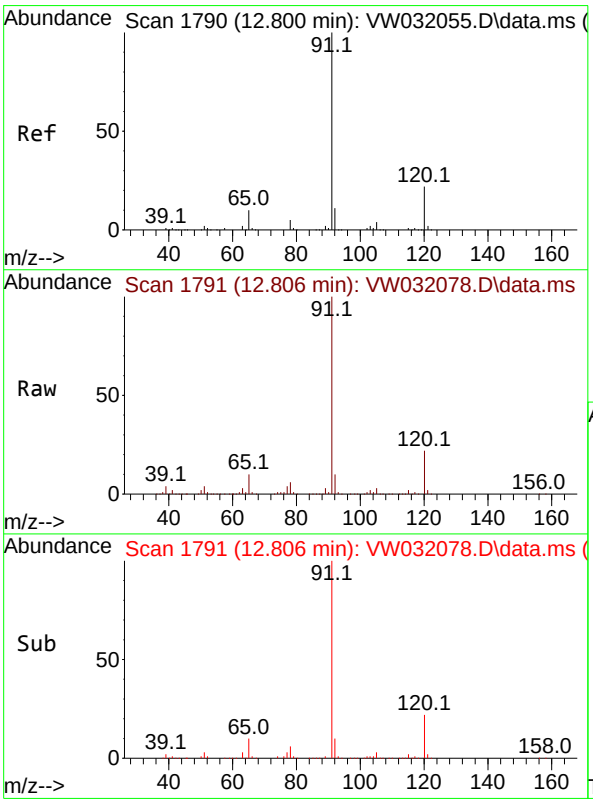
#77
Bromobenzene
Concen: 47.865 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 145348

Ion	Ratio	Lower	Upper
156	100		
77	222.4	108.7	326.3
158	94.8	48.3	144.9

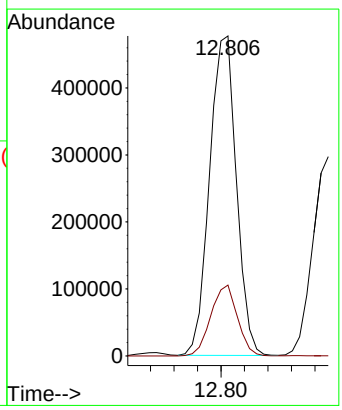


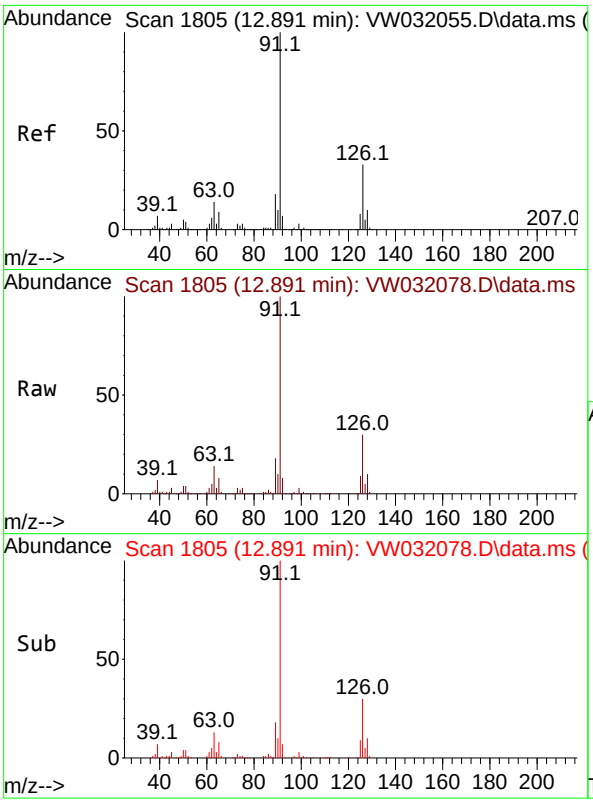


#78
n-propylbenzene
Concen: 48.311 ug/l
RT: 12.806 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 756214

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.3



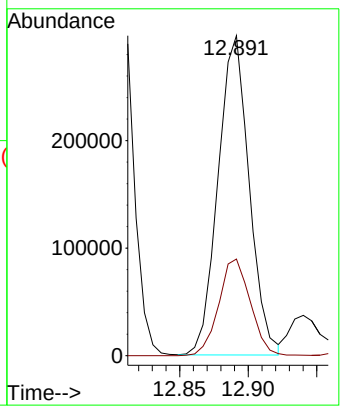


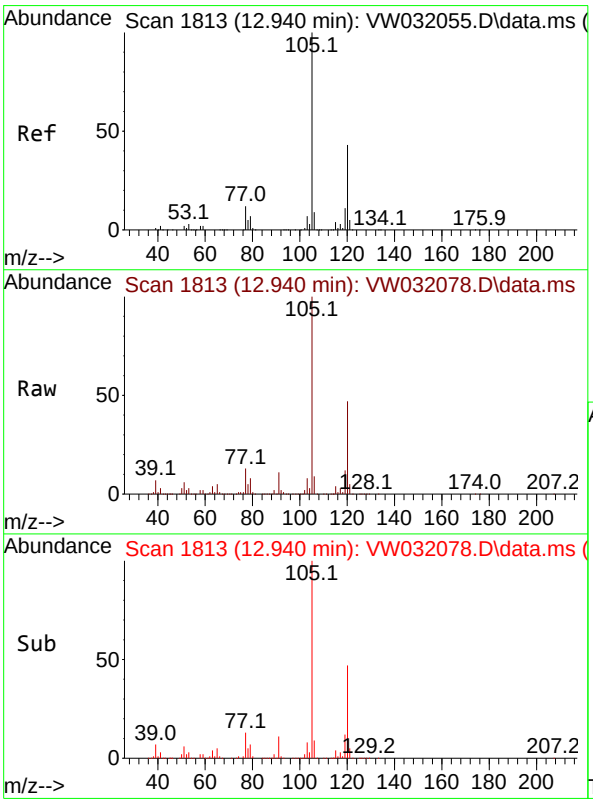
#79
2-Chlorotoluene
Concen: 48.578 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 469293

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.9	47.7

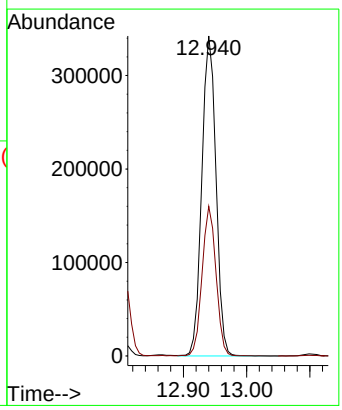


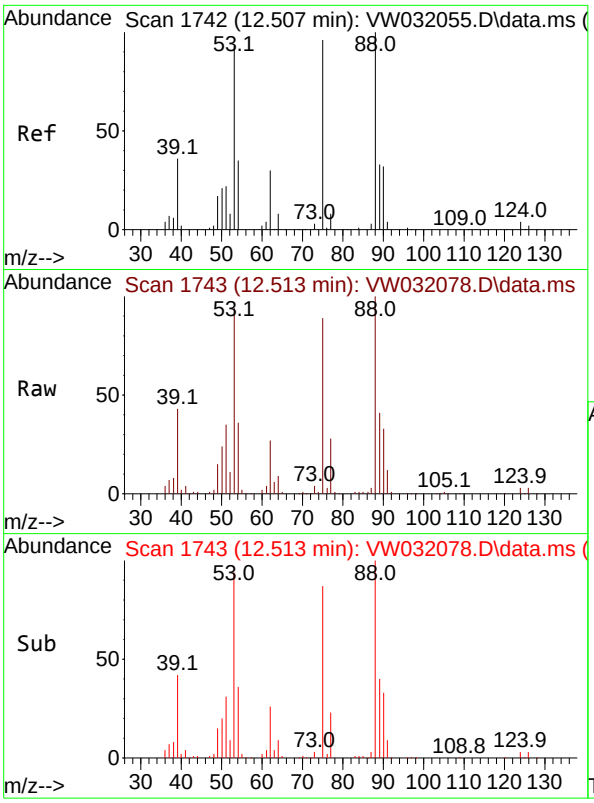


#80
1,3,5-Trimethylbenzene
Concen: 49.484 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 534122

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.4	70.0



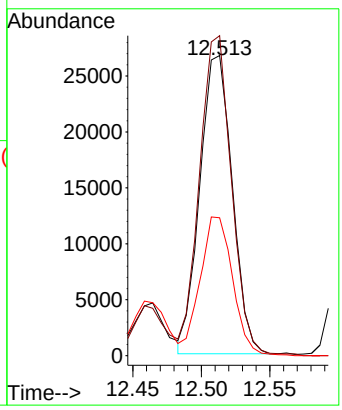


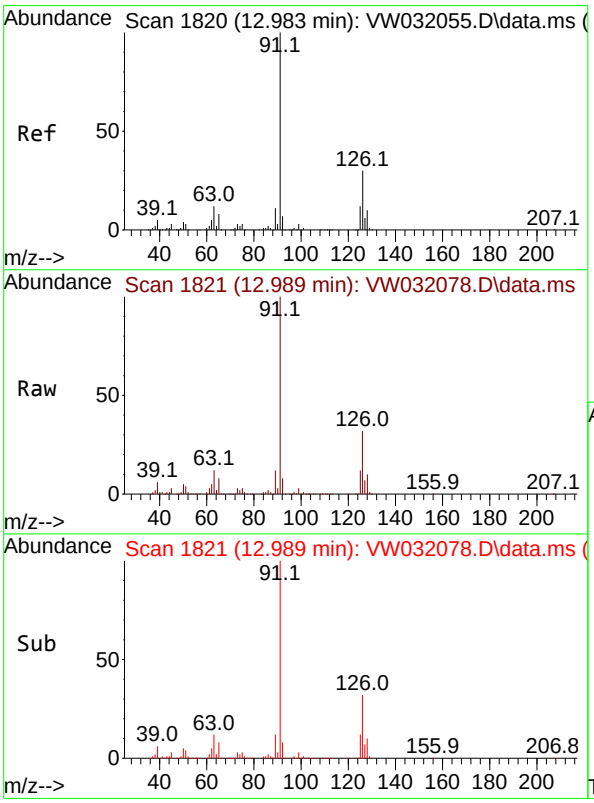
#81
trans-1,4-Dichloro-2-butene
Concen: 46.037 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 43908

Ion	Ratio	Lower	Upper
75	100		
53	106.1	81.0	121.6
89	46.9	37.3	55.9

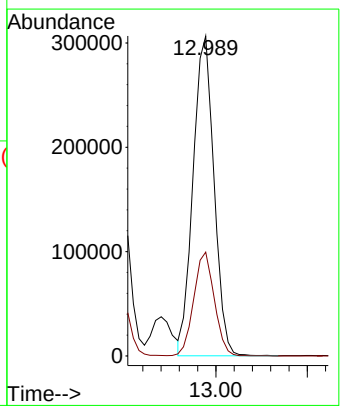


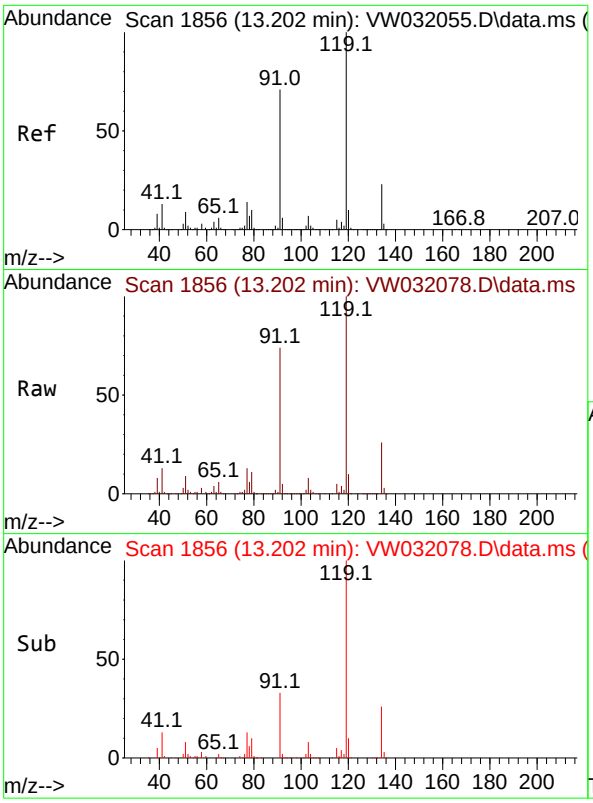


#82
4-Chlorotoluene
Concen: 47.464 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 487171

Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.5	46.5



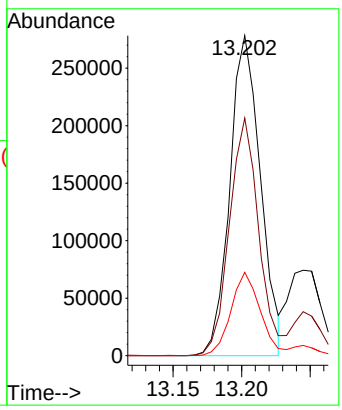


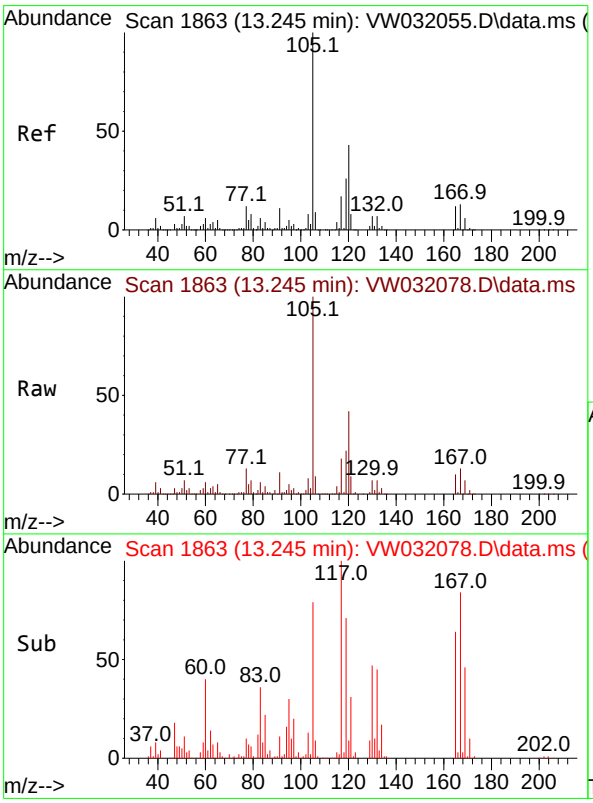
#83
tert-Butylbenzene
Concen: 48.424 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 433786

Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.3	105.9
134	25.1	12.1	36.3

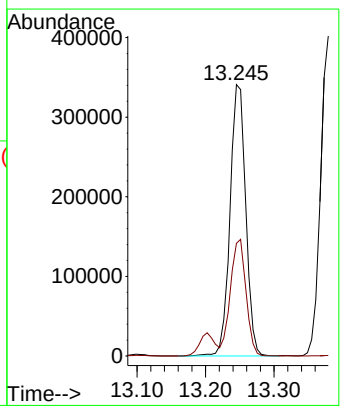


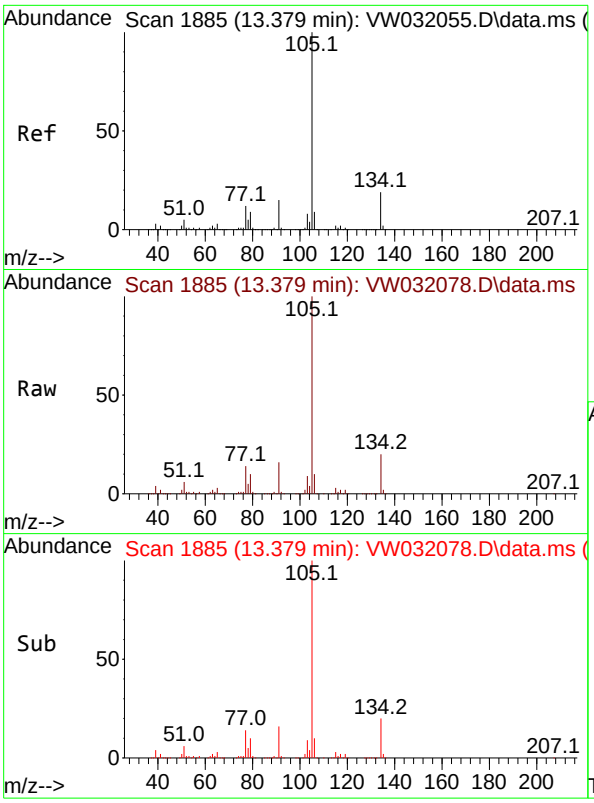


#84
1,2,4-Trimethylbenzene
Concen: 49.477 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 543640

Ion	Ratio	Lower	Upper
105	100		
120	42.9	21.6	64.8



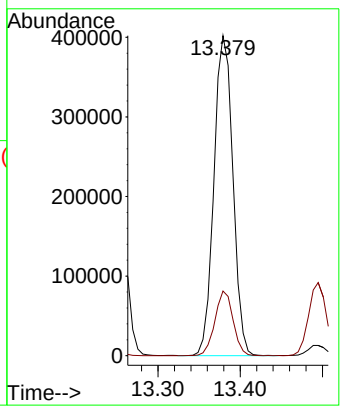


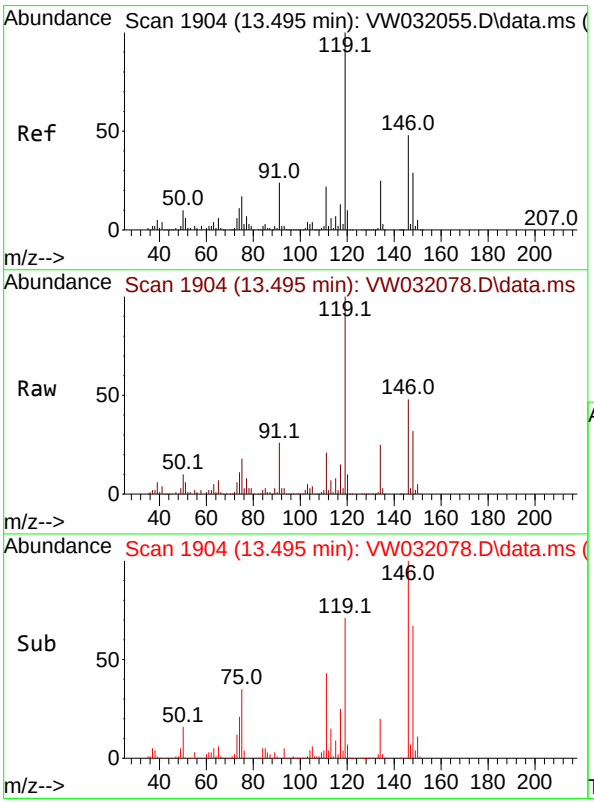
#85
sec-Butylbenzene
Concen: 47.482 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 643083

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.9	29.7

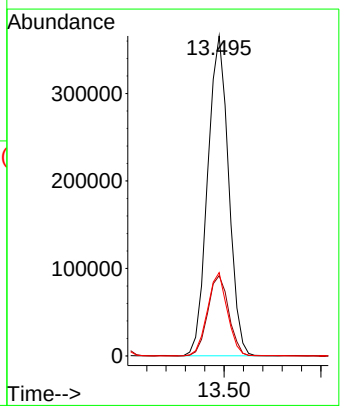


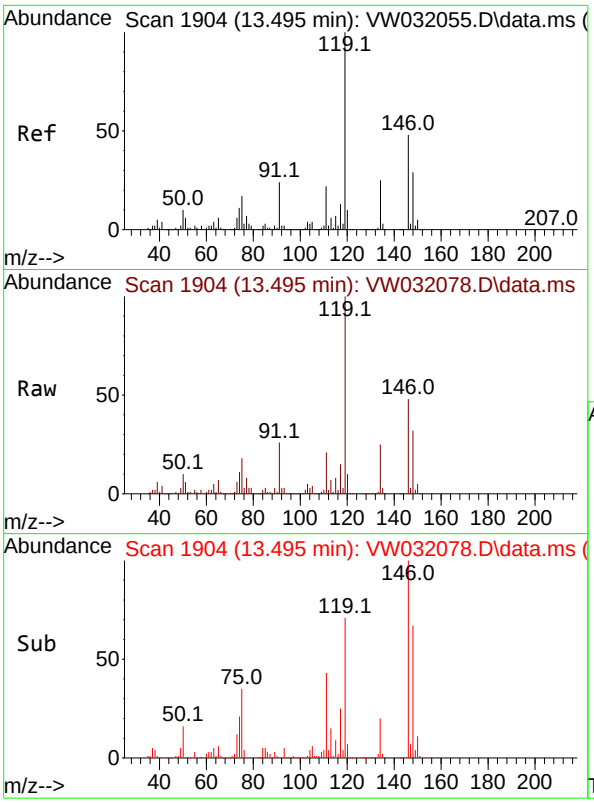


#86
p-Isopropyltoluene
Concen: 48.708 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:119 Resp: 549955

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.4	37.0
91	24.7	12.1	36.3



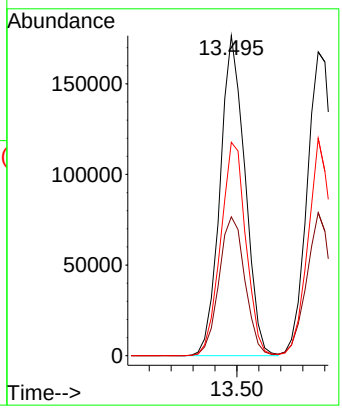


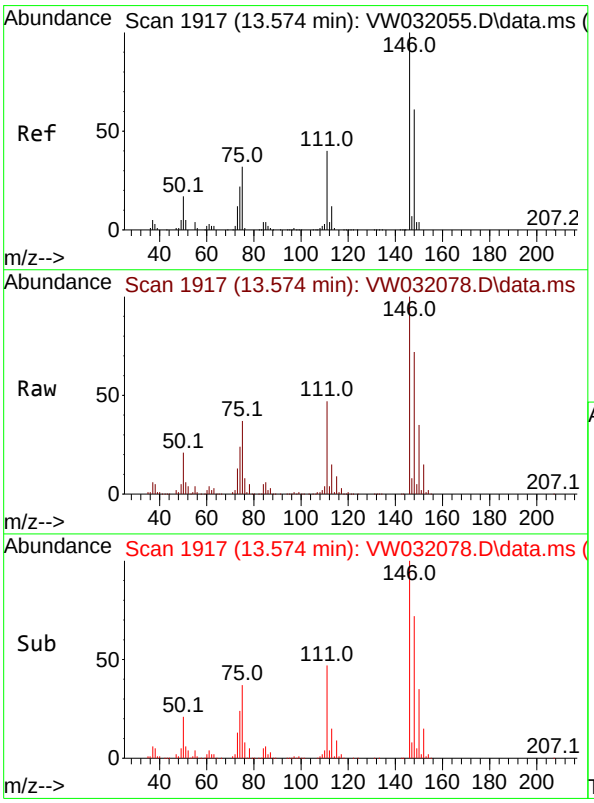
#87
1,3-Dichlorobenzene
Concen: 46.057 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 278295

Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.2	63.6
148	67.7	30.3	90.8

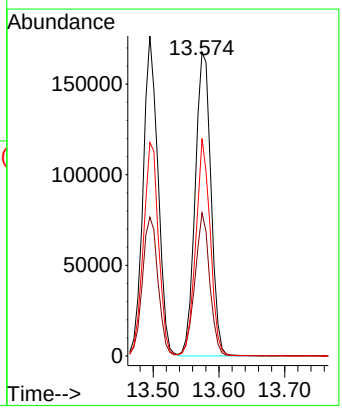


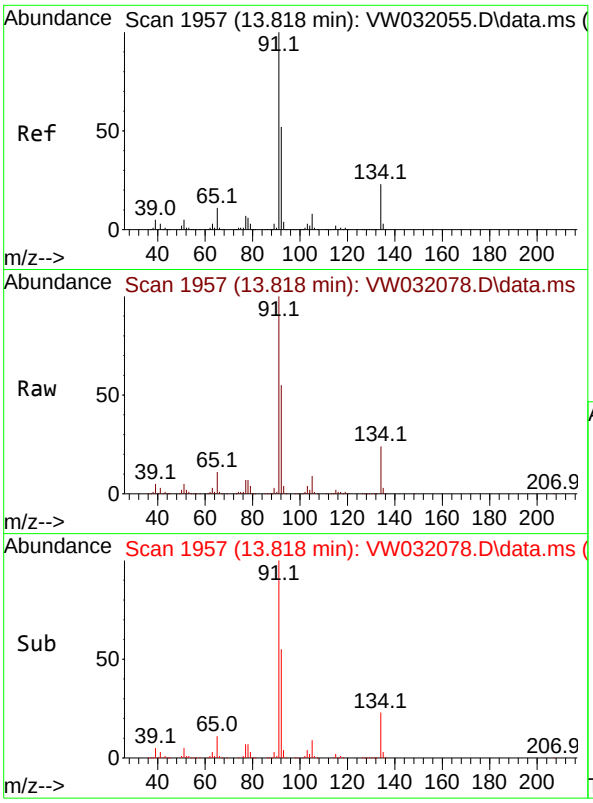


#88
1,4-Dichlorobenzene
Concen: 45.431 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 277410

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.6	64.6
148	65.6	32.0	96.2



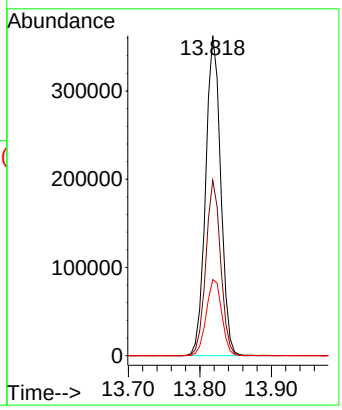


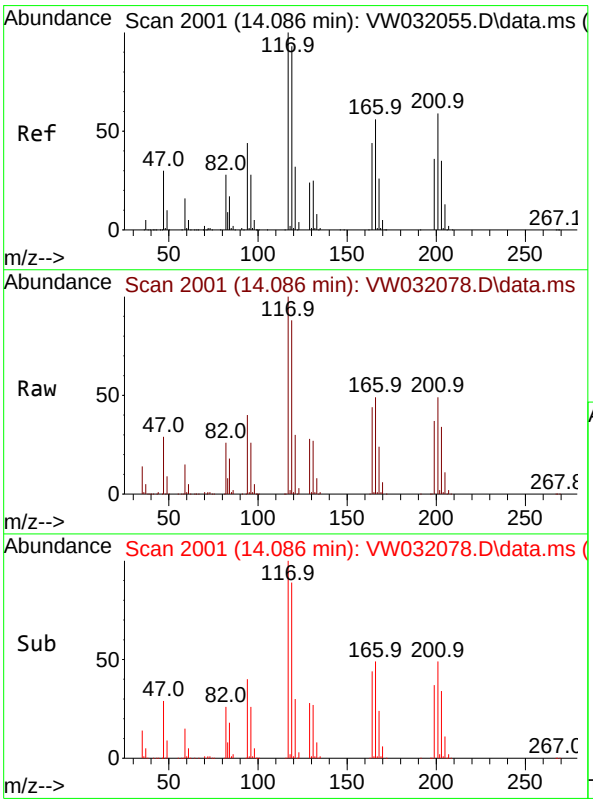
#89
n-Butylbenzene
Concen: 48.414 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 531065

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.7	80.1
134	24.5	12.0	36.1

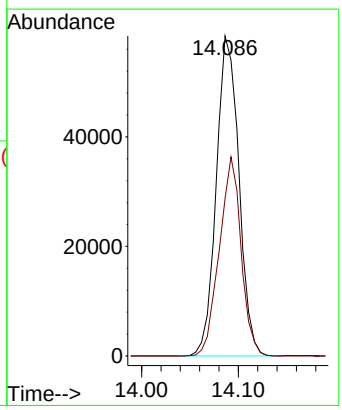


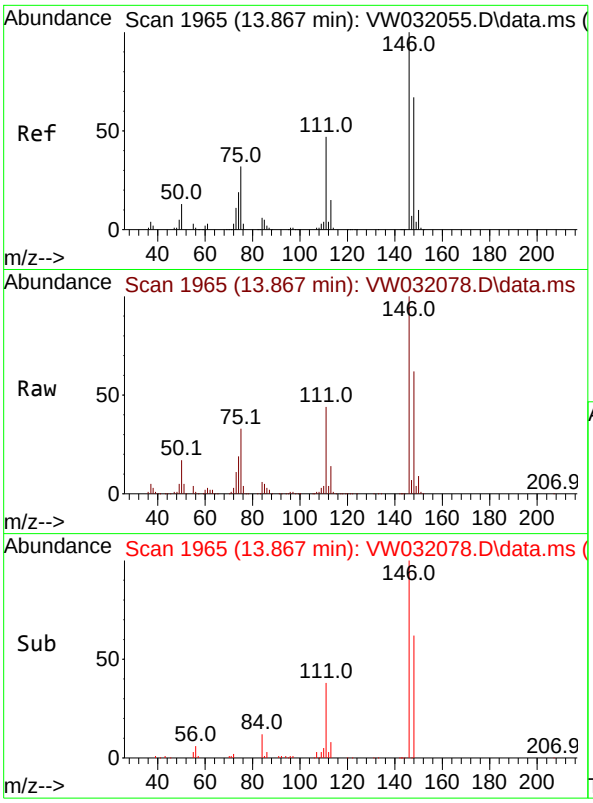


#90
Hexachloroethane
Concen: 45.779 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 94529

Ion	Ratio	Lower	Upper
117	100		
201	60.0	30.9	92.5



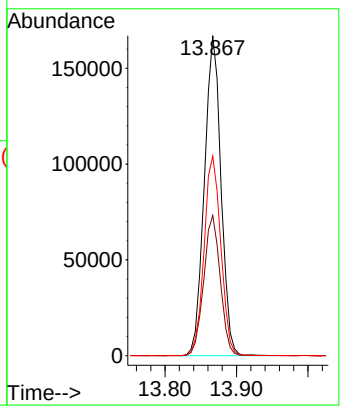


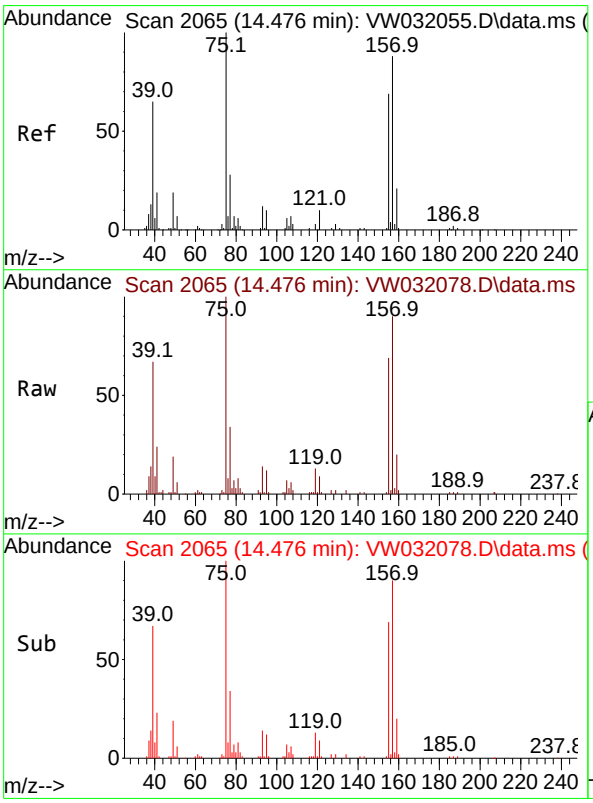
#91
1,2-Dichlorobenzene
Concen: 49.256 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 269607

Ion	Ratio	Lower	Upper
146	100		
111	43.6	23.1	69.3
148	62.7	32.9	98.6

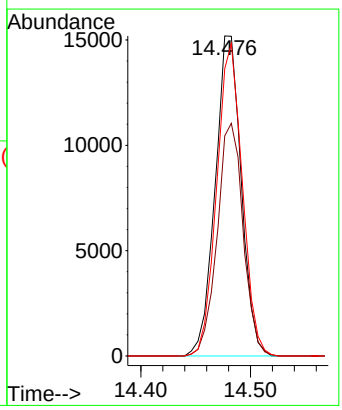


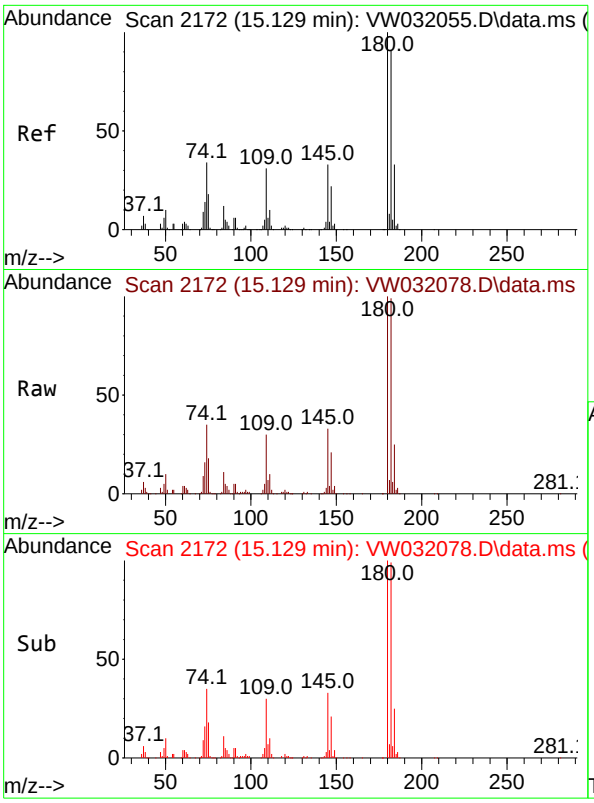


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.732 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 25079

Ion	Ratio	Lower	Upper
75	100		
155	72.5	35.2	105.6
157	95.7	47.5	142.6



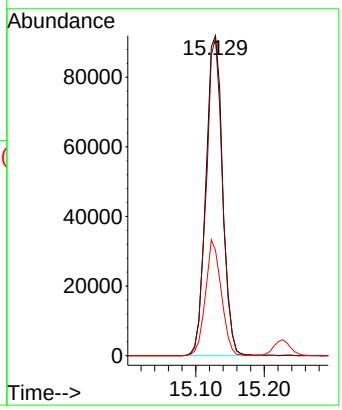


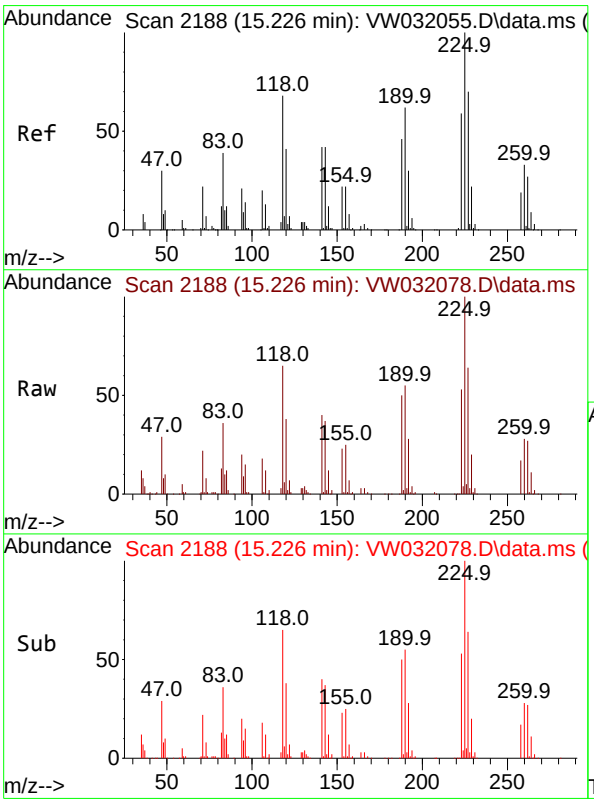
#93
1,2,4-Trichlorobenzene
Concen: 47.562 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 155733

Ion	Ratio	Lower	Upper
180	100		
182	96.6	49.0	147.0
145	34.4	17.3	51.9

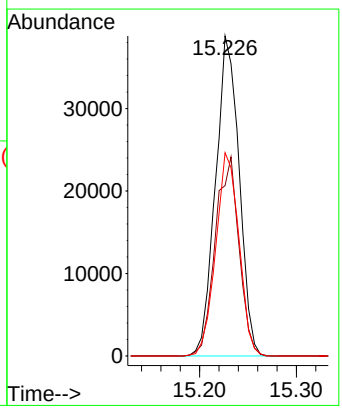


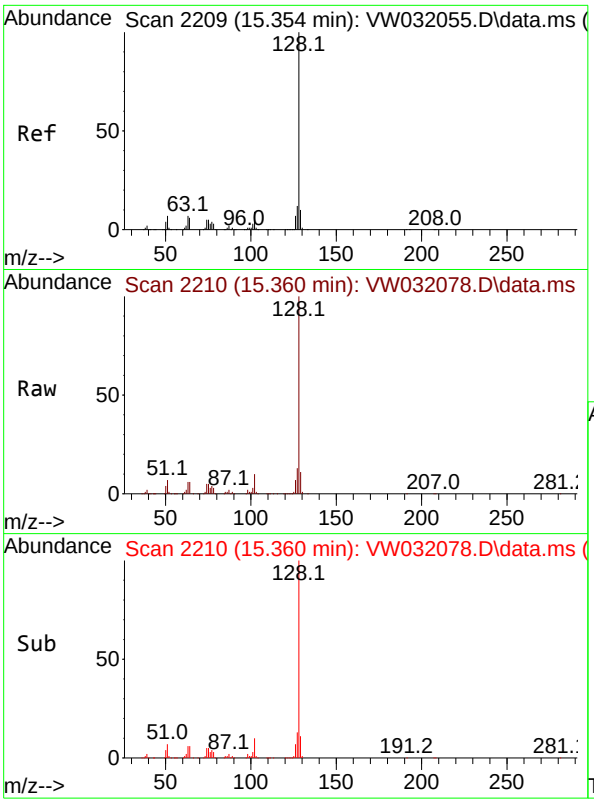


#94
Hexachlorobutadiene
Concen: 44.879 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:225 Resp: 65688

Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.8	95.3
227	62.4	33.5	100.5



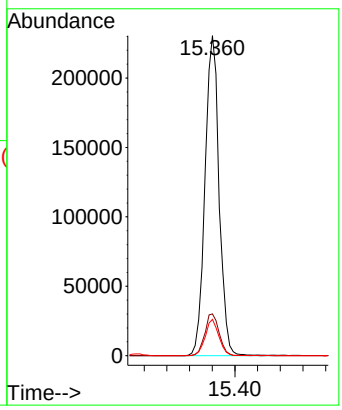


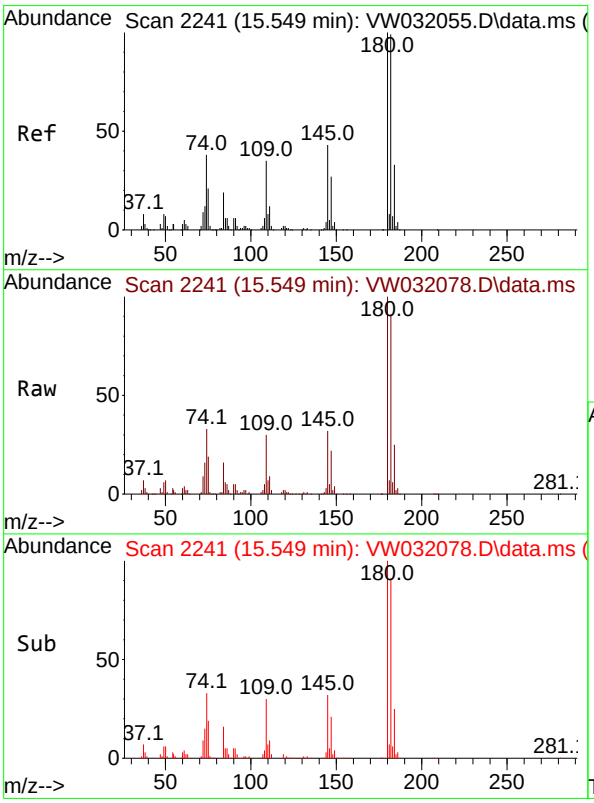
#95
Naphthalene
Concen: 49.535 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 397425

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	11.0	8.2	12.4

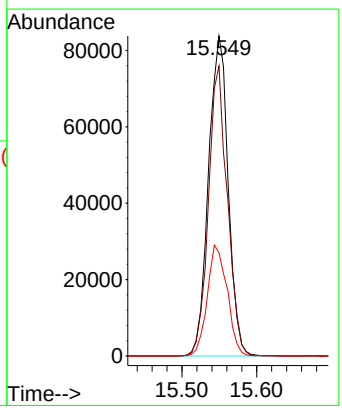




#96
1,2,3-Trichlorobenzene
Concen: 51.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:180 Resp: 152914

Ion	Ratio	Lower	Upper
180	100		
182	87.3	46.0	138.0
145	35.1	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)

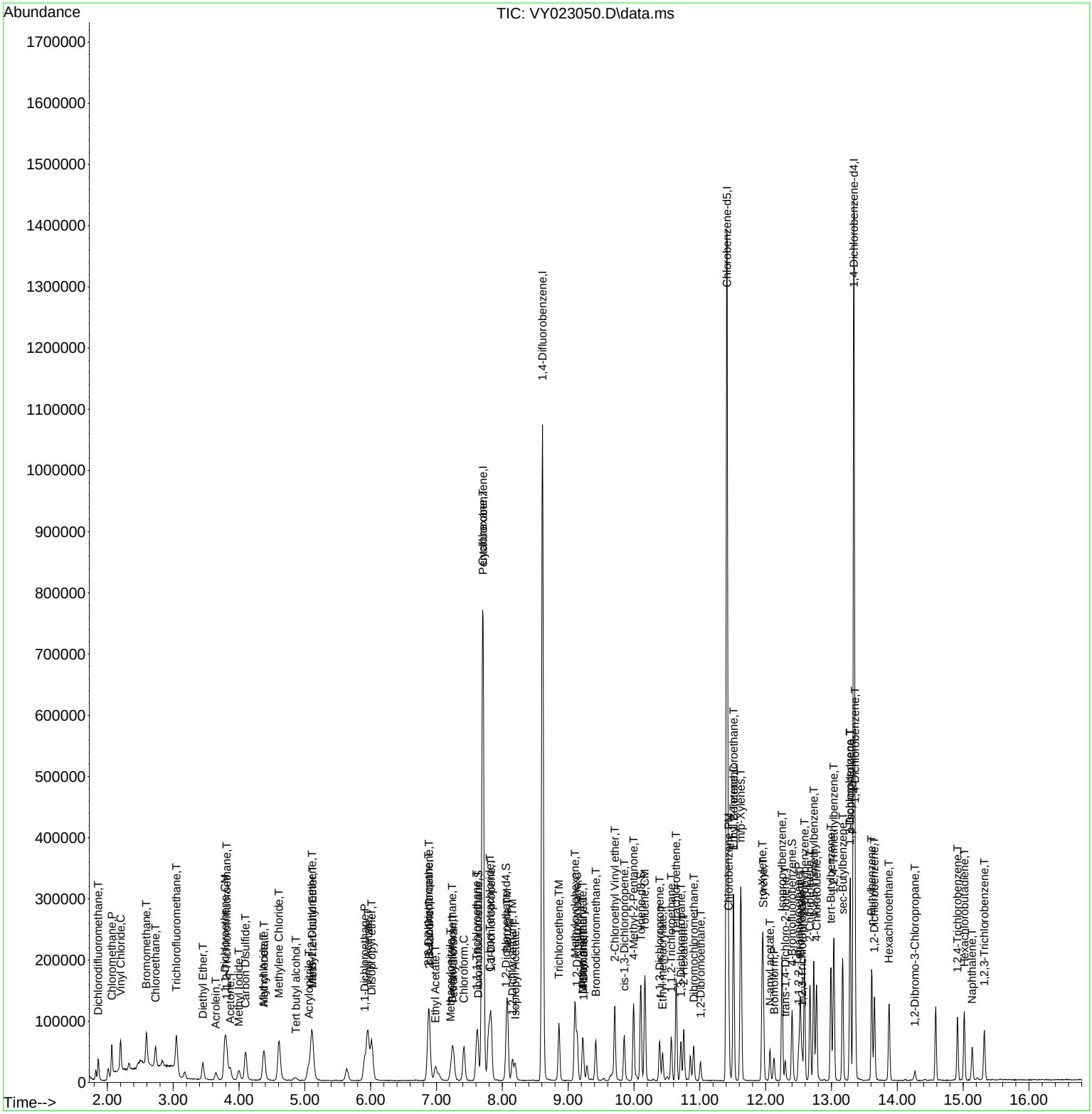
(#) = qualifier out of range (m) = manual integration (+) = signals summed

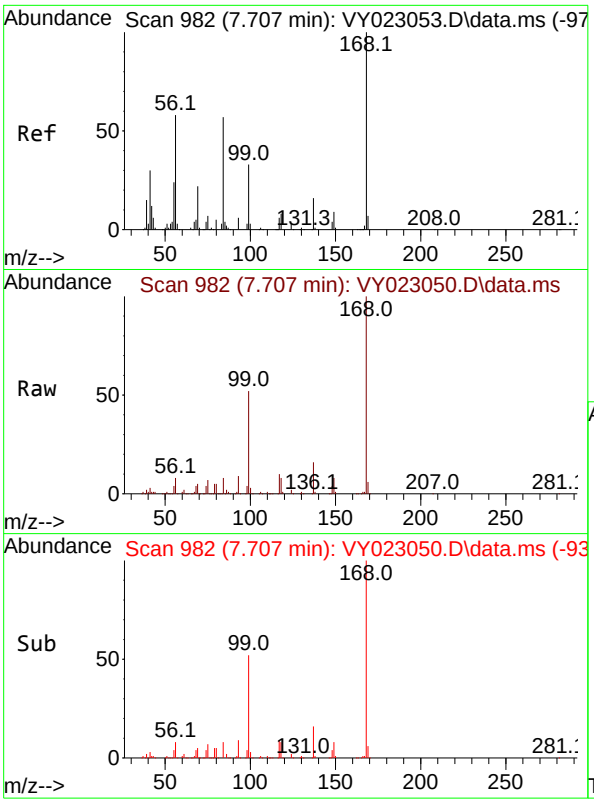
Quantitation Report (Not Reviewed)

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



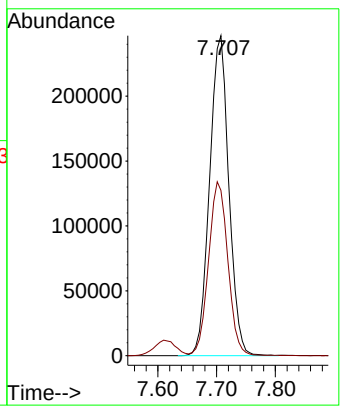


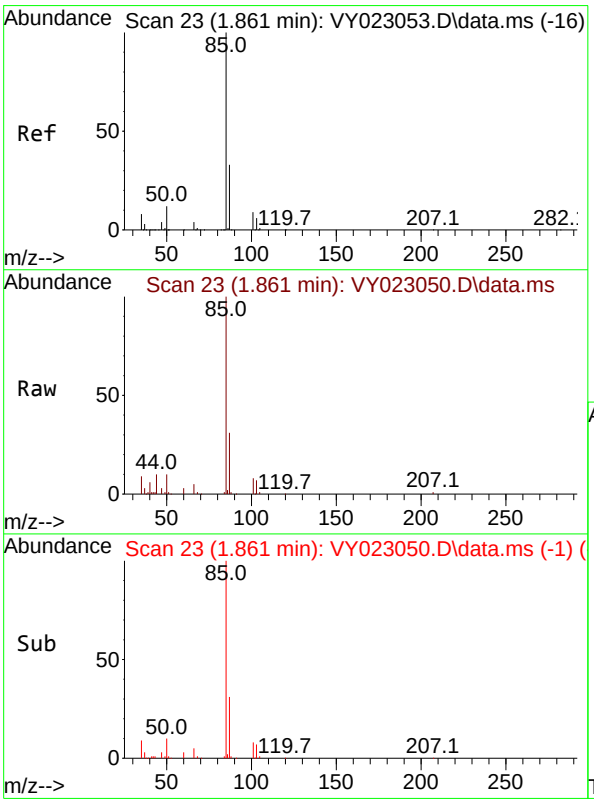
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 561390

Ion	Ratio	Lower	Upper
168	100		
99	51.5	42.8	64.2

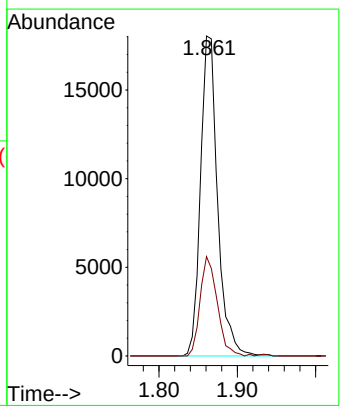


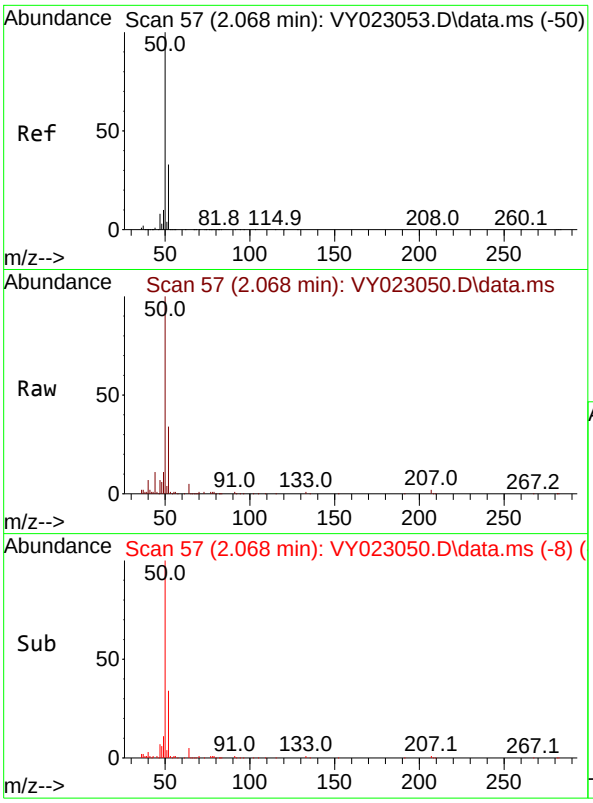


#2
Dichlorodifluoromethane
Concen: 5.969 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 85 Resp: 27351

Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.6	49.8



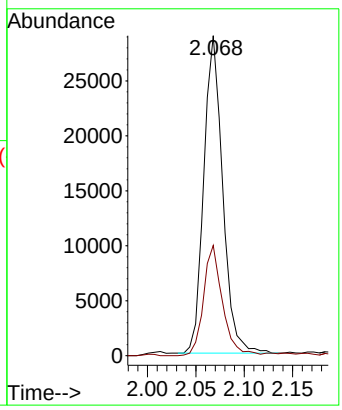


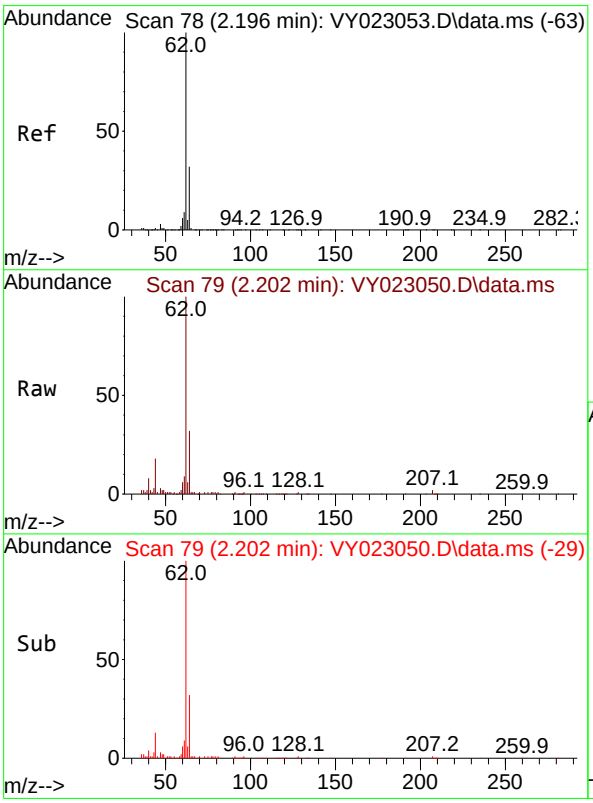
#3
Chloromethane
Concen: 5.291 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 39269

Ion	Ratio	Lower	Upper
50	100		
52	34.7	26.7	40.1

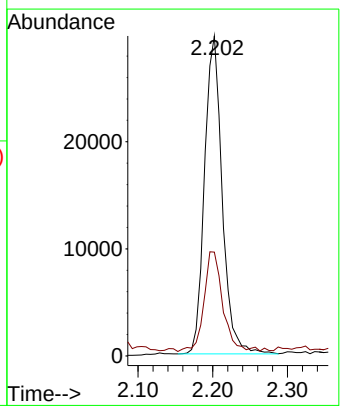


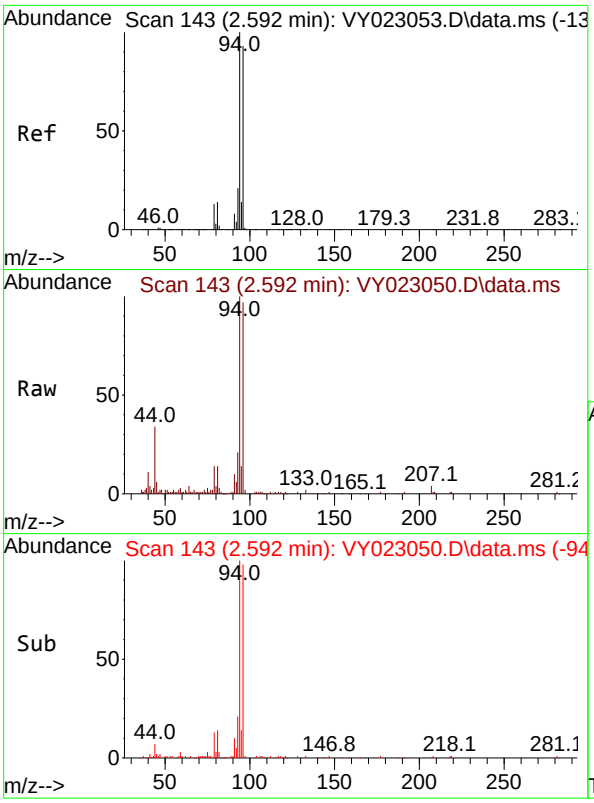


#4
Vinyl Chloride
Concen: 5.312 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 48736

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.4	38.0



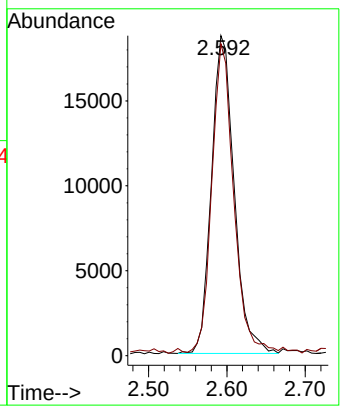


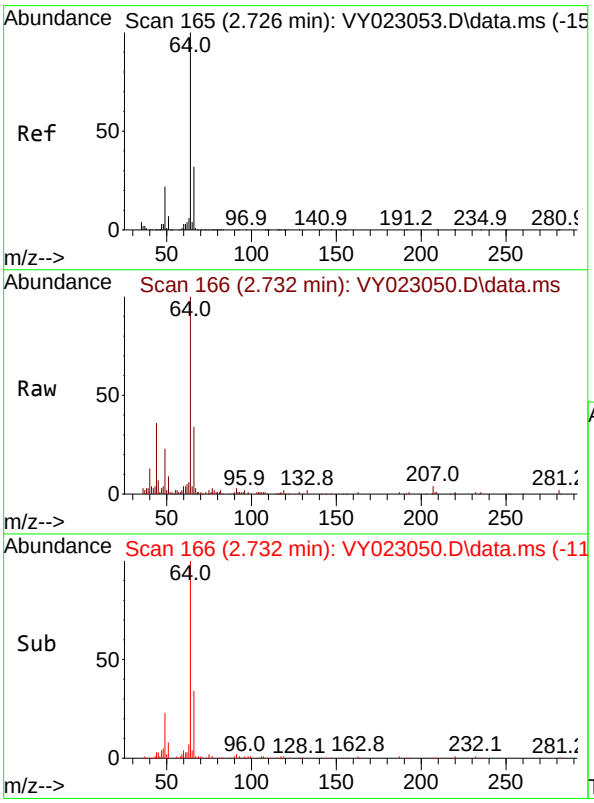
#5
Bromomethane
Concen: 5.513 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 37773

Ion	Ratio	Lower	Upper
94	100		
96	96.5	74.6	112.0

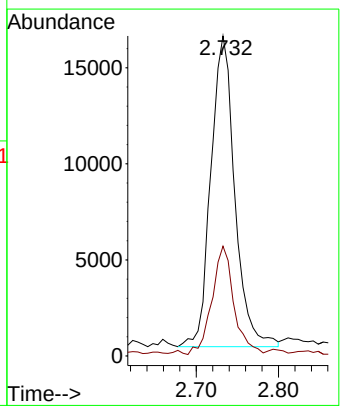


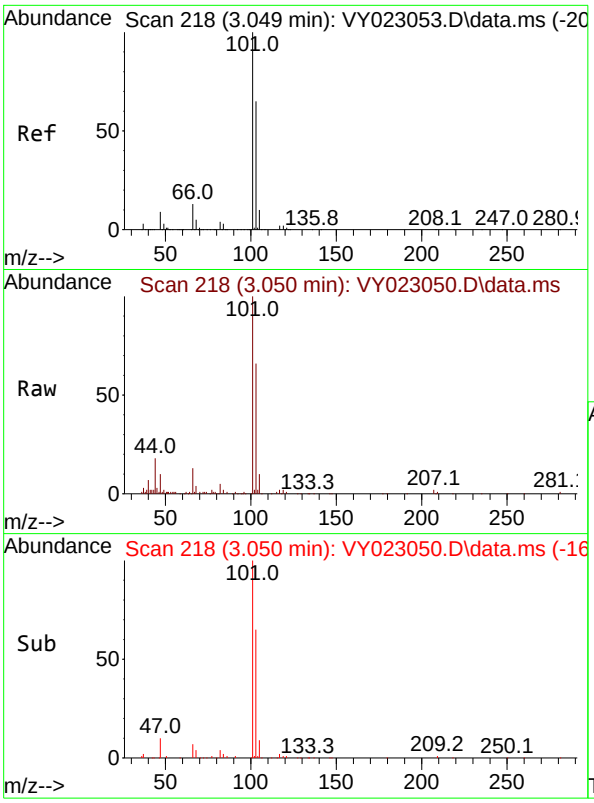


#6
Chloroethane
Concen: 5.380 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 64 Resp: 32816

Ion	Ratio	Lower	Upper
64	100		
66	33.5	25.8	38.6



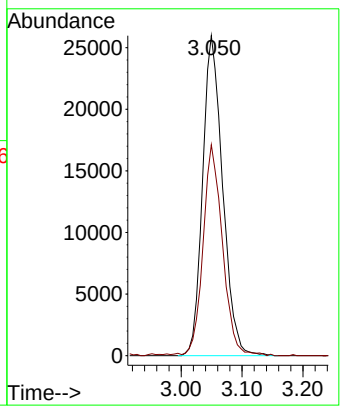


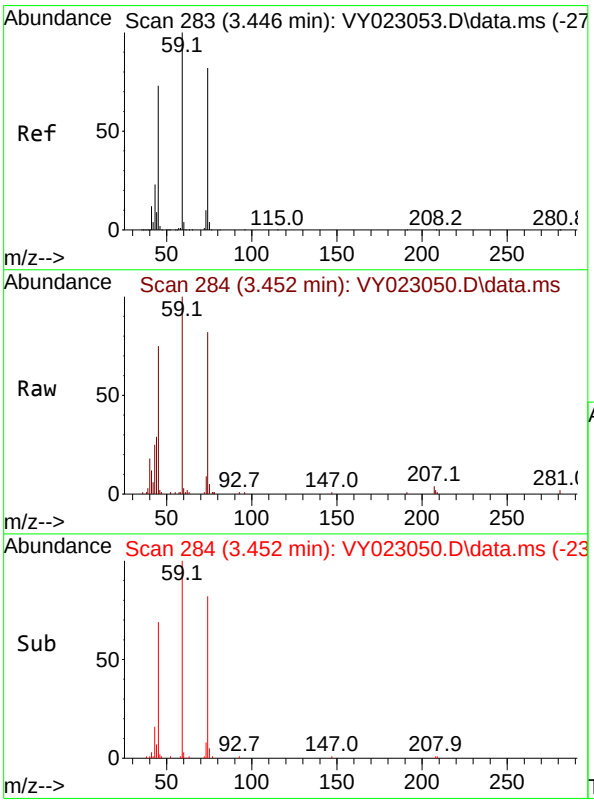
#7
Trichlorofluoromethane
Concen: 5.328 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 59438

Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.9	77.9

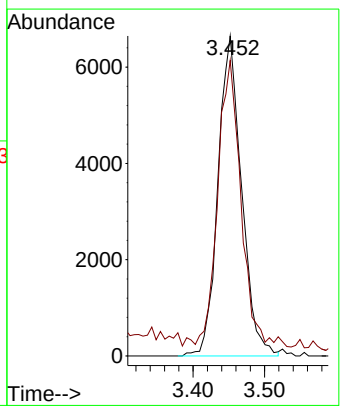


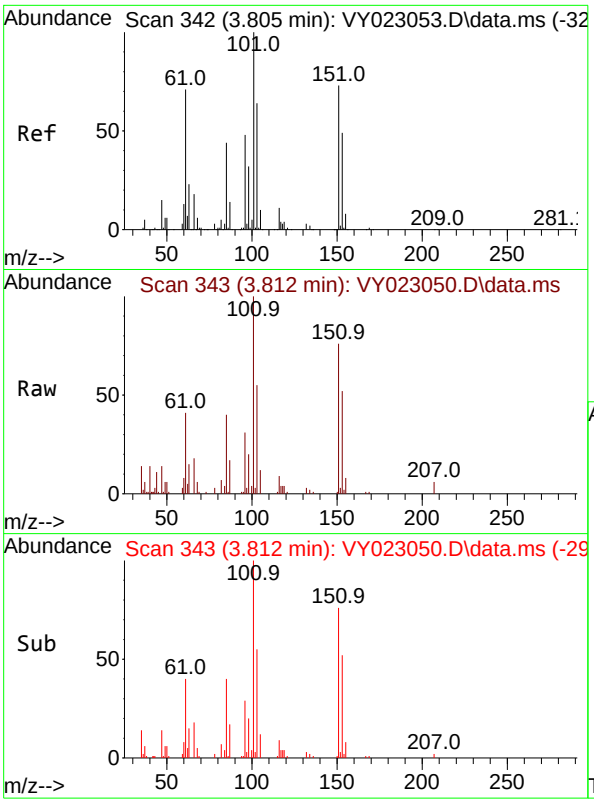


#8
Diethyl Ether
Concen: 5.160 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 74 Resp: 15231

Ion	Ratio	Lower	Upper
74	100		
45	88.2	44.4	133.2



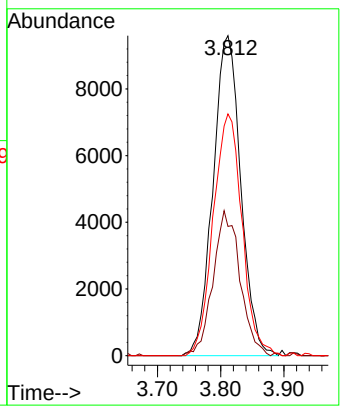


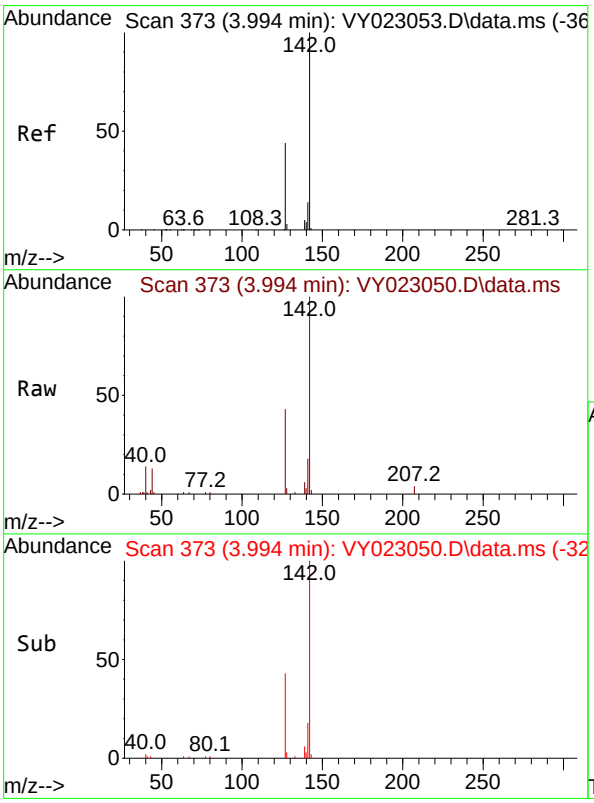
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.322 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

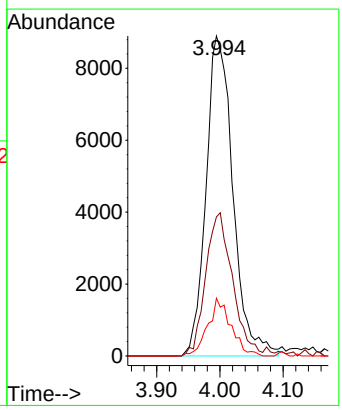


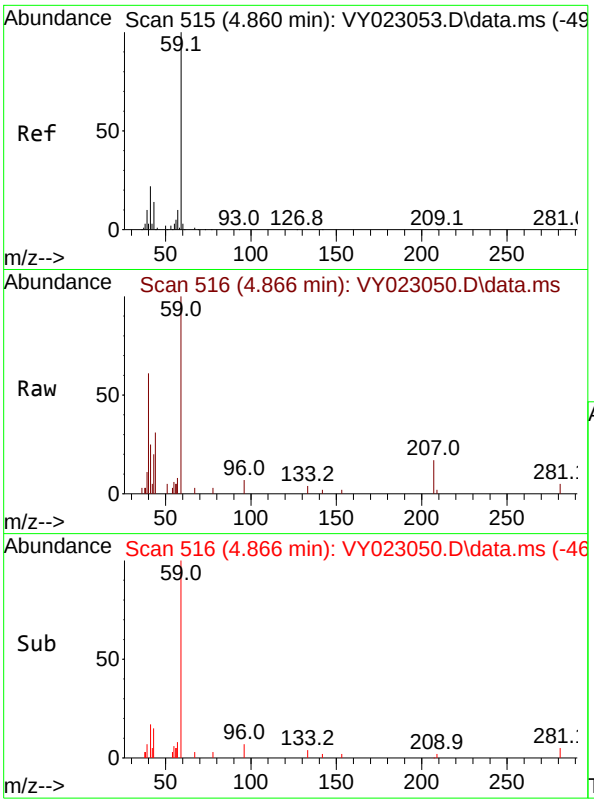


#10
Methyl Iodide
Concen: 4.424 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



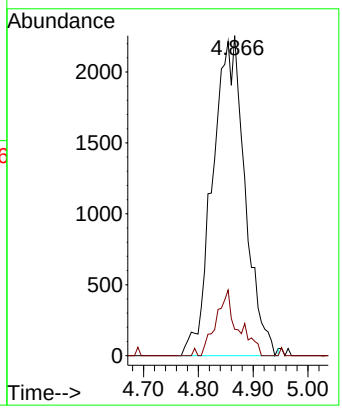


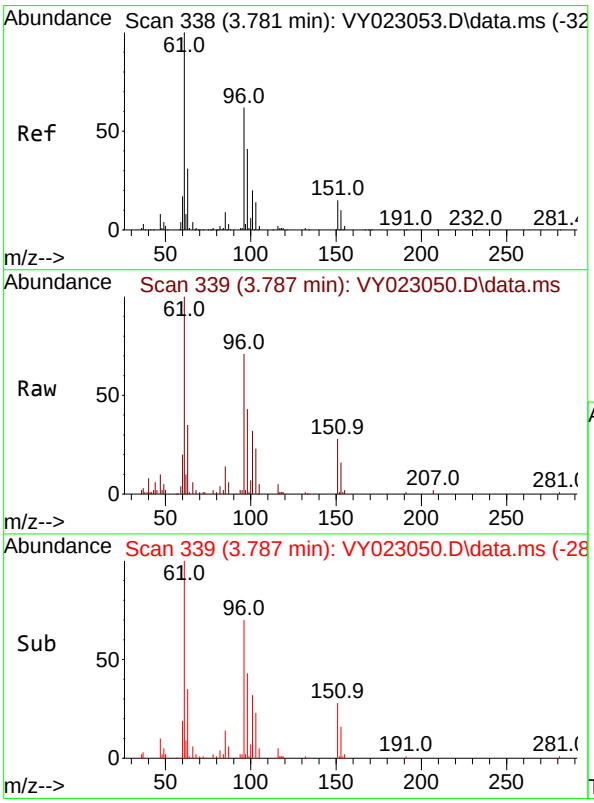
#11
Tert butyl alcohol
Concen: 25.147 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 9219

Ion	Ratio	Lower	Upper
59	100		
57	13.9	8.6	13.0#

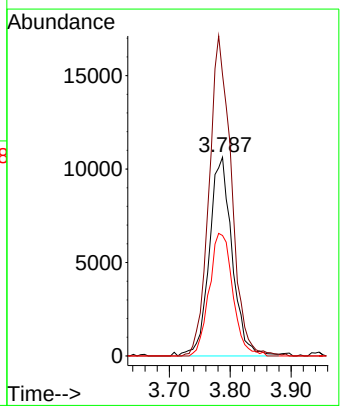


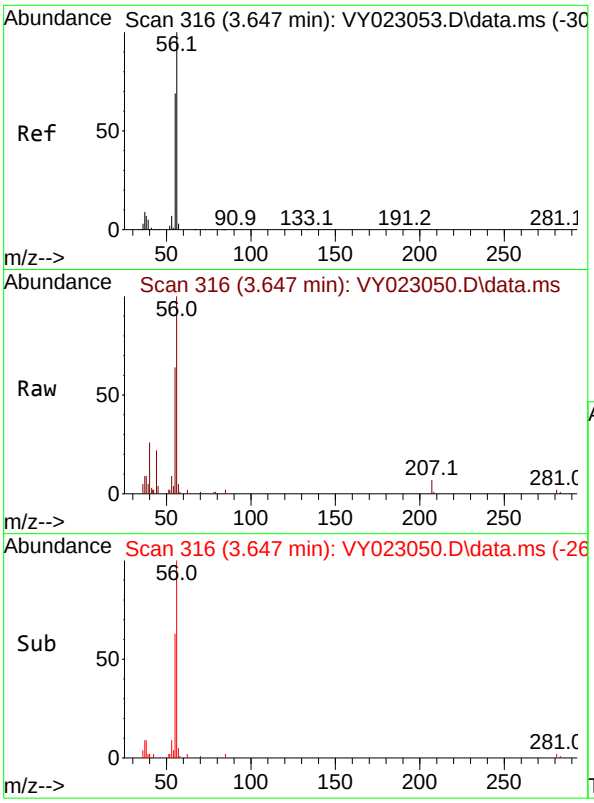


#12
1,1-Dichloroethene
Concen: 5.108 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



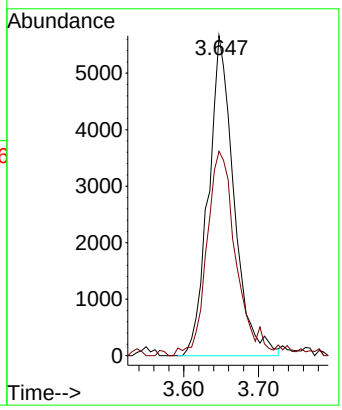


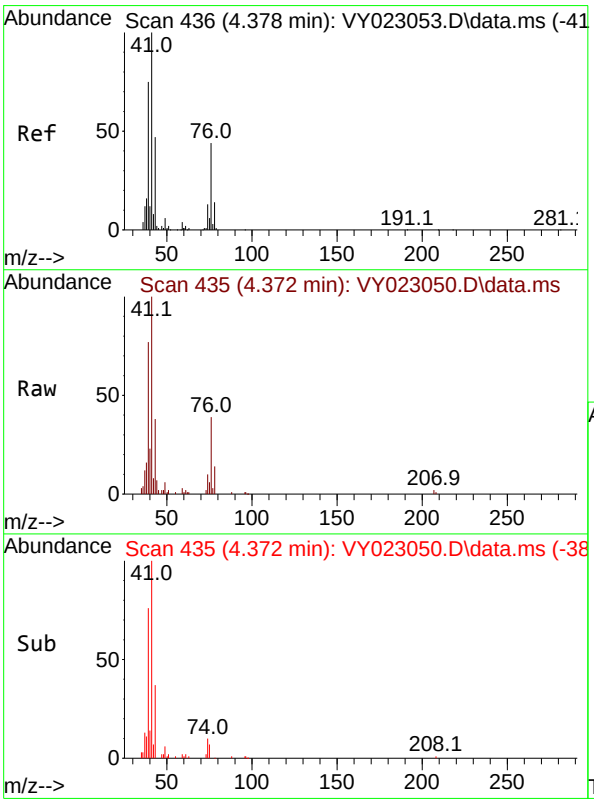
#13
Acrolein
Concen: 24.941 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 13391

Ion	Ratio	Lower	Upper
56	100		
55	72.8	55.2	82.8

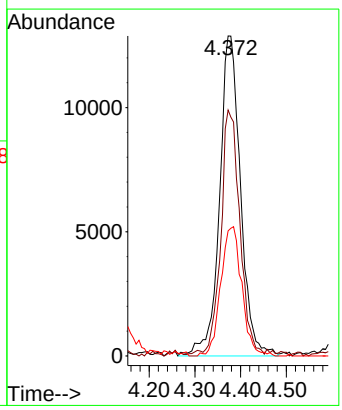


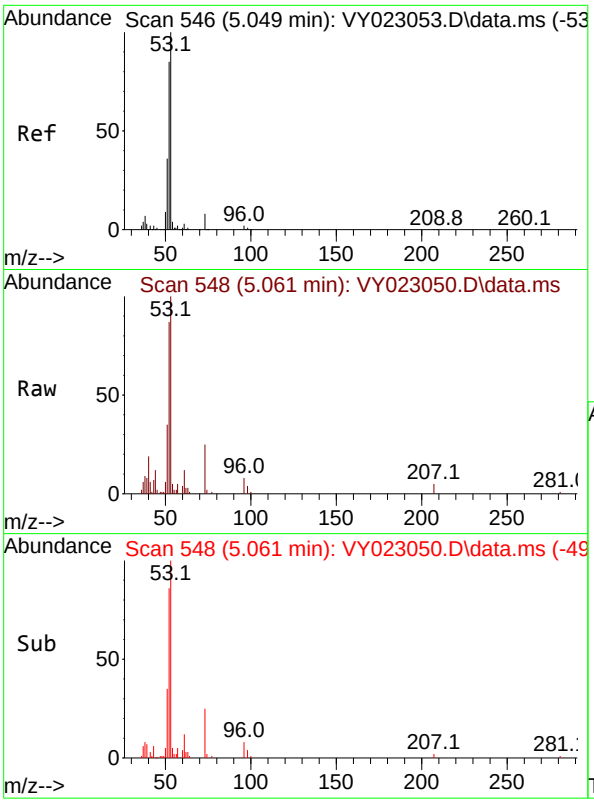


#14
Allyl chloride
Concen: 5.176 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



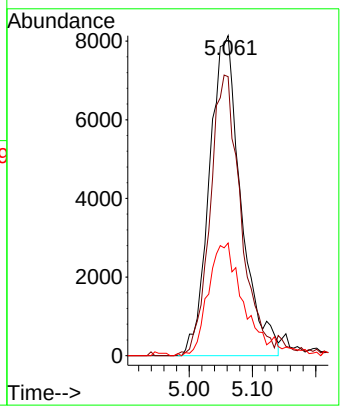


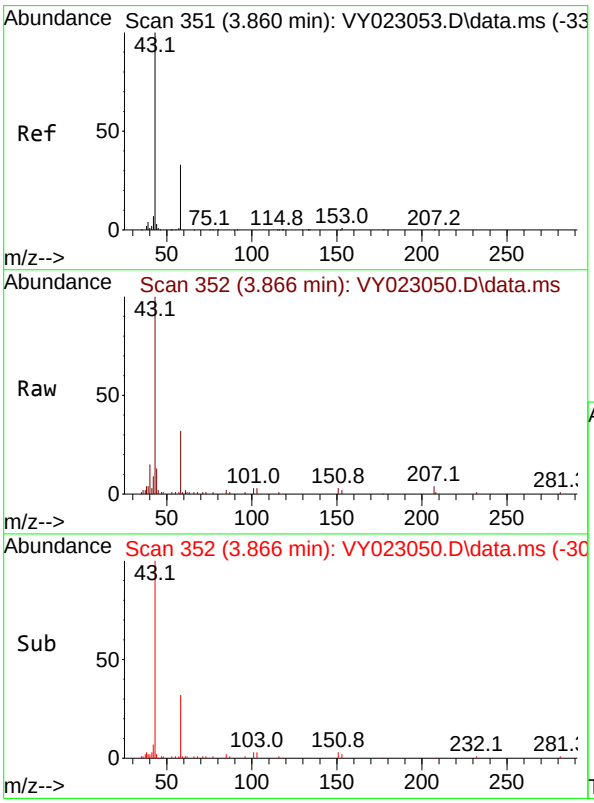
#15
Acrylonitrile
Concen: 23.547 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

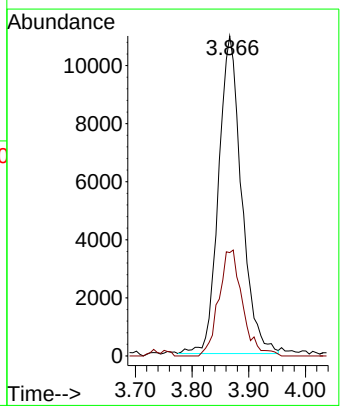


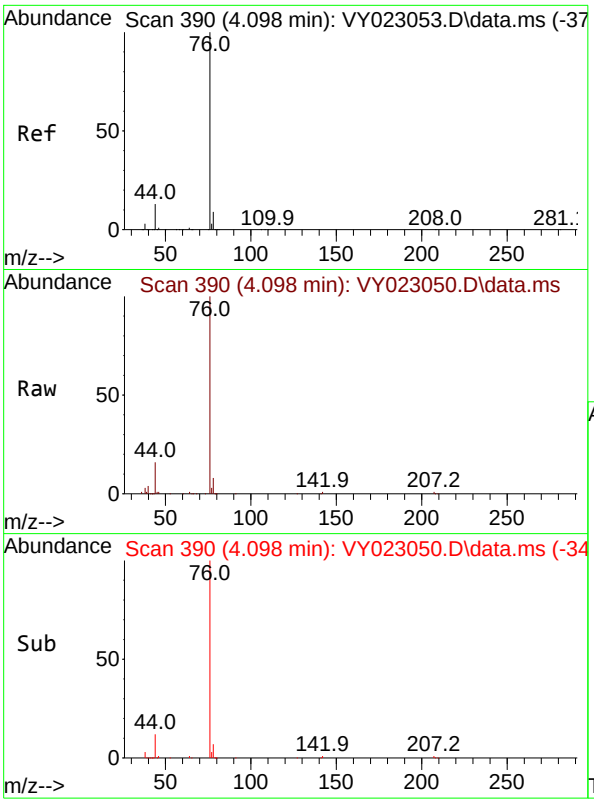


#16
Acetone
Concen: 26.574 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 30803

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.1	40.7



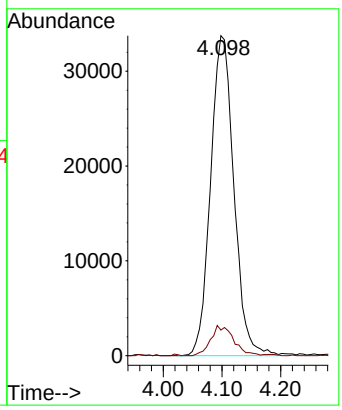


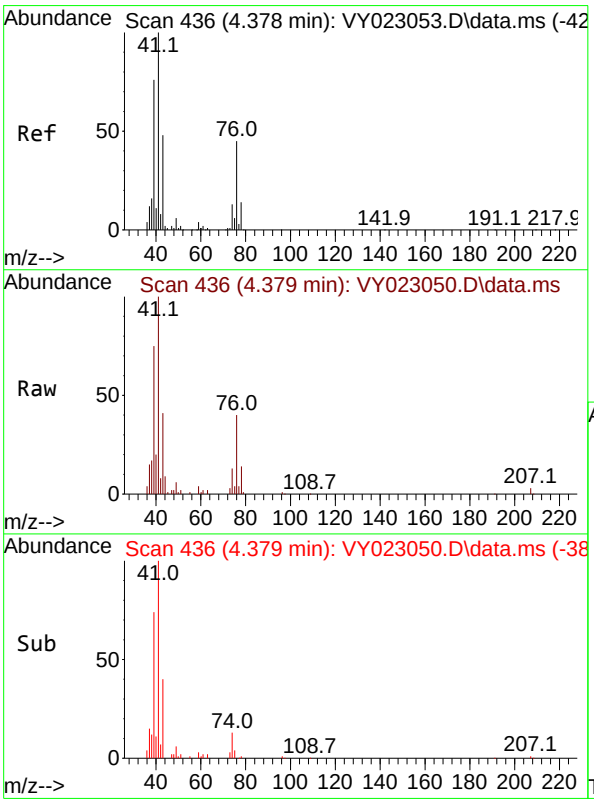
#17
Carbon Disulfide
Concen: 5.270 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 92964

Ion	Ratio	Lower	Upper
76	100		
78	7.8	7.4	11.2

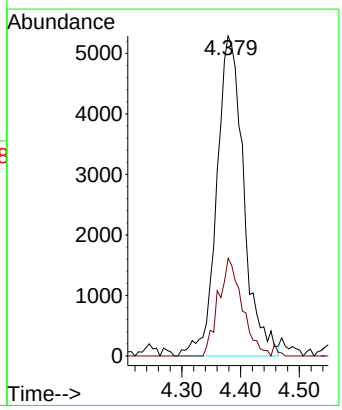


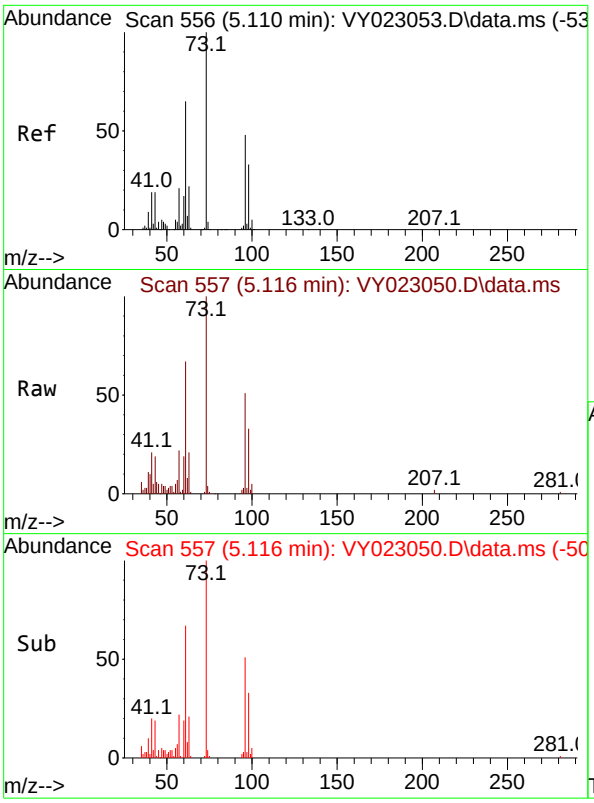


#18
Methyl Acetate
Concen: 4.872 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 16806

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8



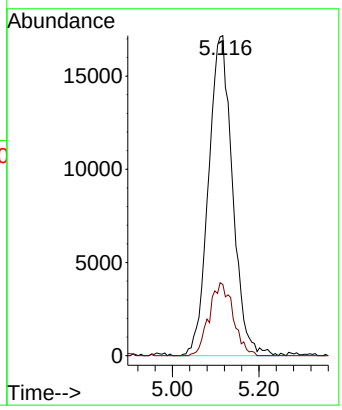


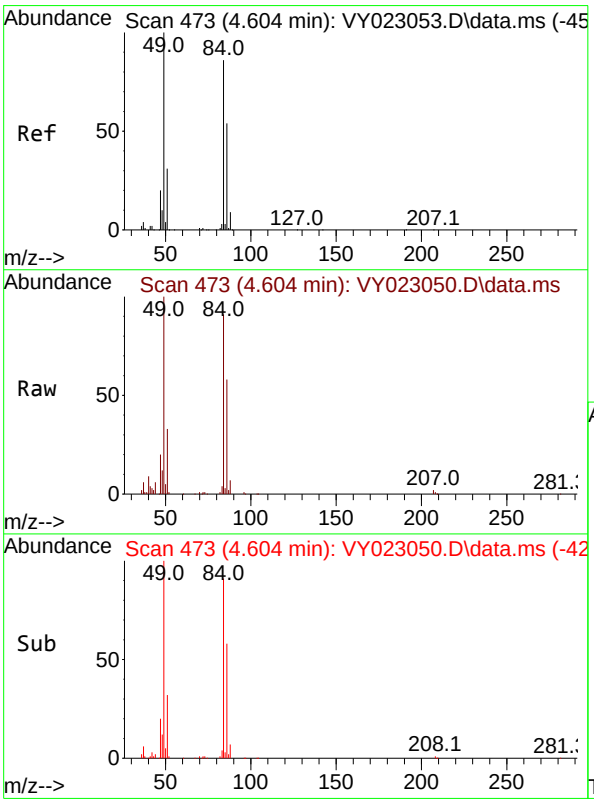
#19
Methyl tert-butyl Ether
Concen: 4.730 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 66308

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.1	25.7

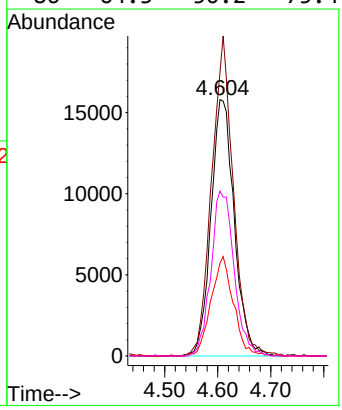


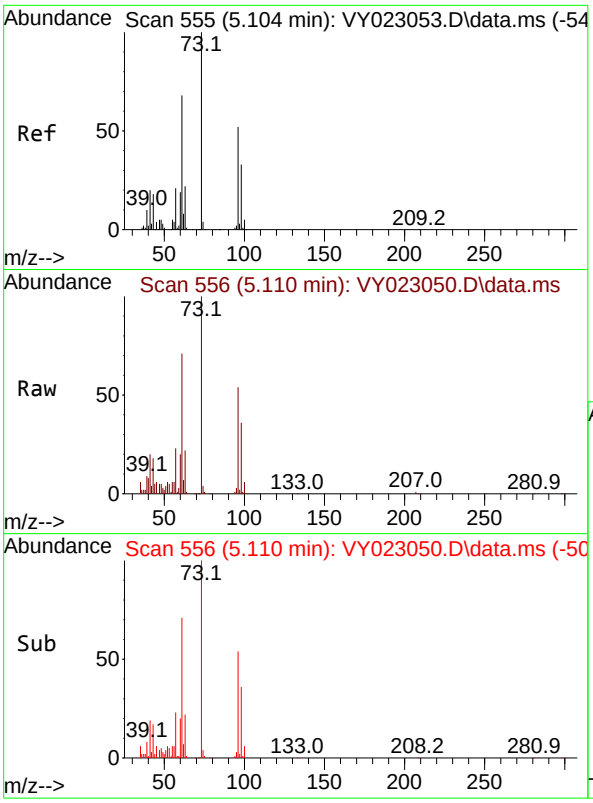


#20
Methylene Chloride
Concen: 5.657 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



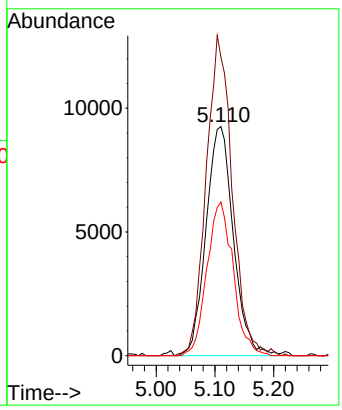


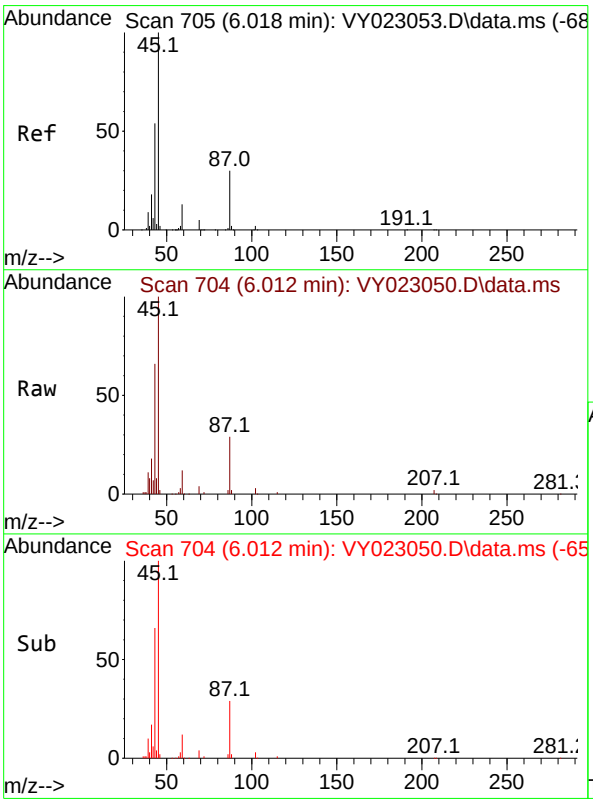
#21
trans-1,2-Dichloroethene
Concen: 4.938 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

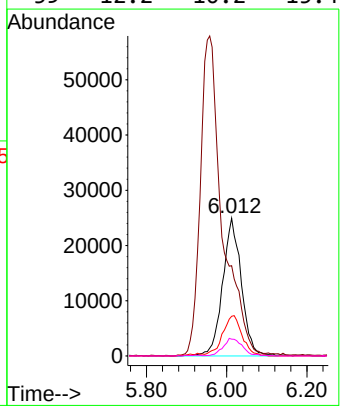


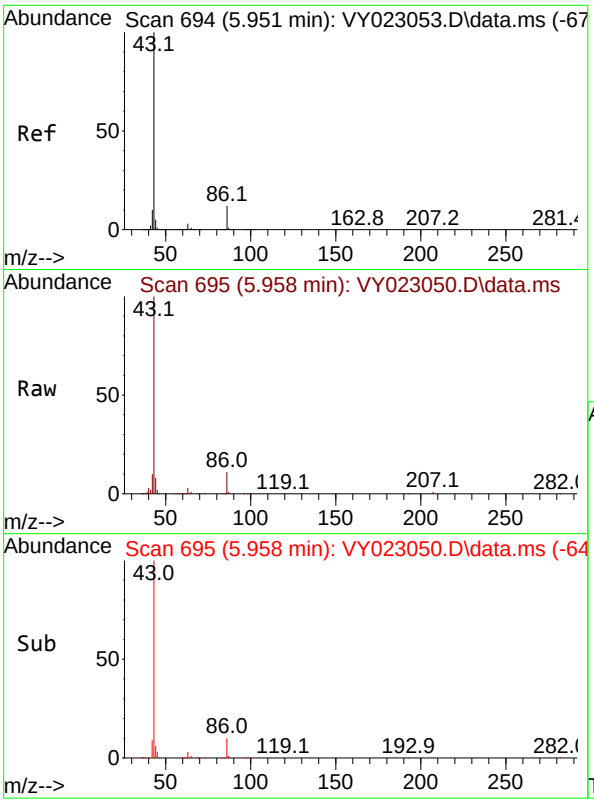


#22
Diisopropyl ether
Concen: 4.679 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



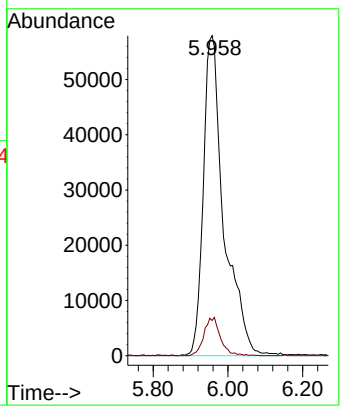


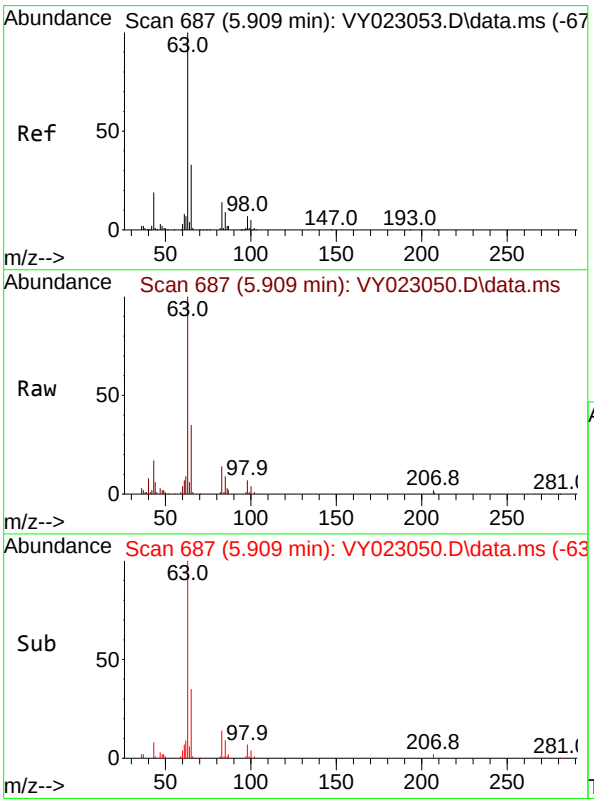
#23
Vinyl Acetate
Concen: 23.196 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 221862

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.6	14.4

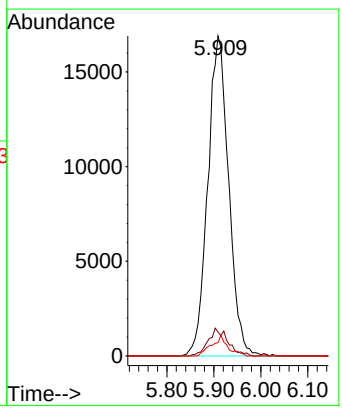


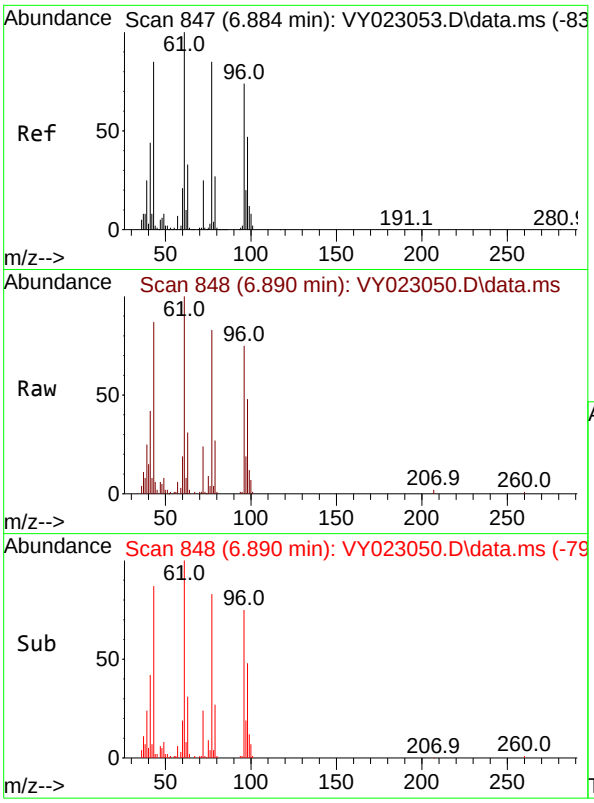


#24
1,1-Dichloroethane
Concen: 4.931 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



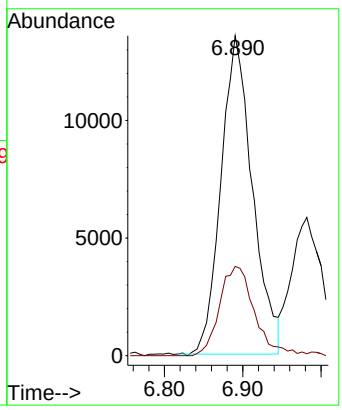


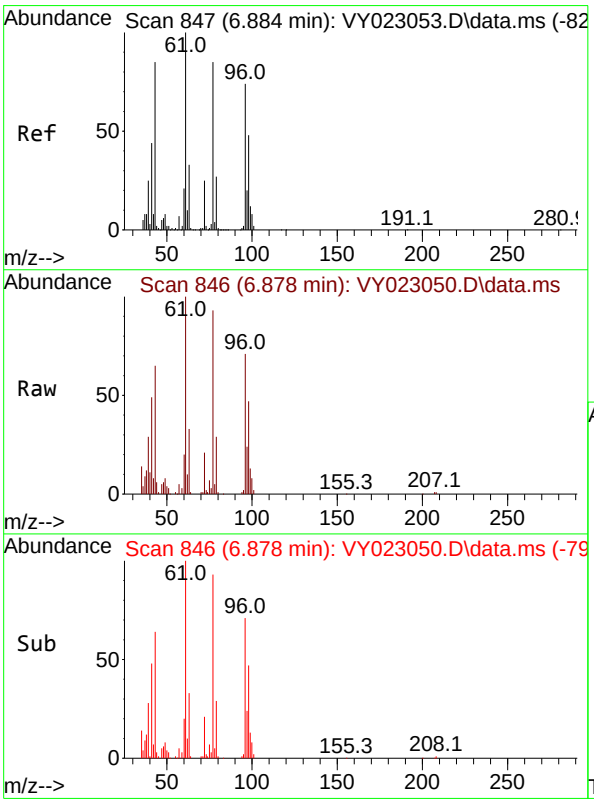
#25
2-Butanone
Concen: 23.991 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 37821

Ion	Ratio	Lower	Upper
43	100		
72	28.0	23.5	35.3

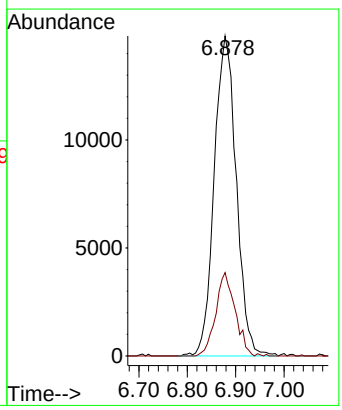


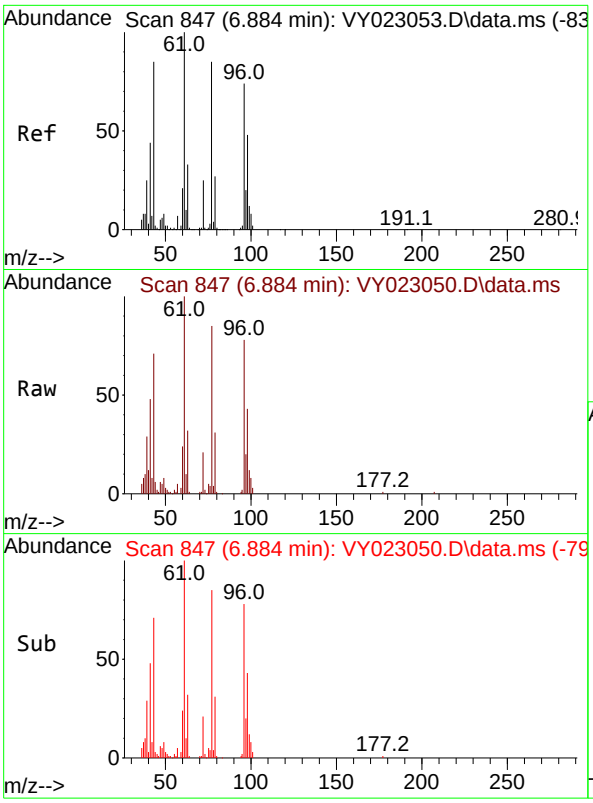


#26
2,2-Dichloropropane
Concen: 5.147 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 77 Resp: 46964

Ion	Ratio	Lower	Upper
77	100		
97	22.8	11.6	34.8



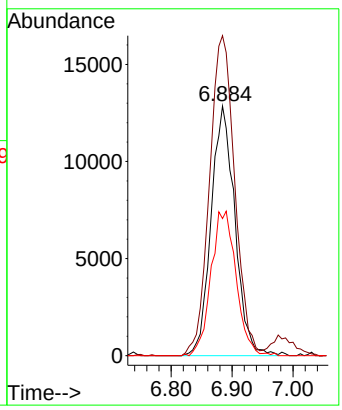


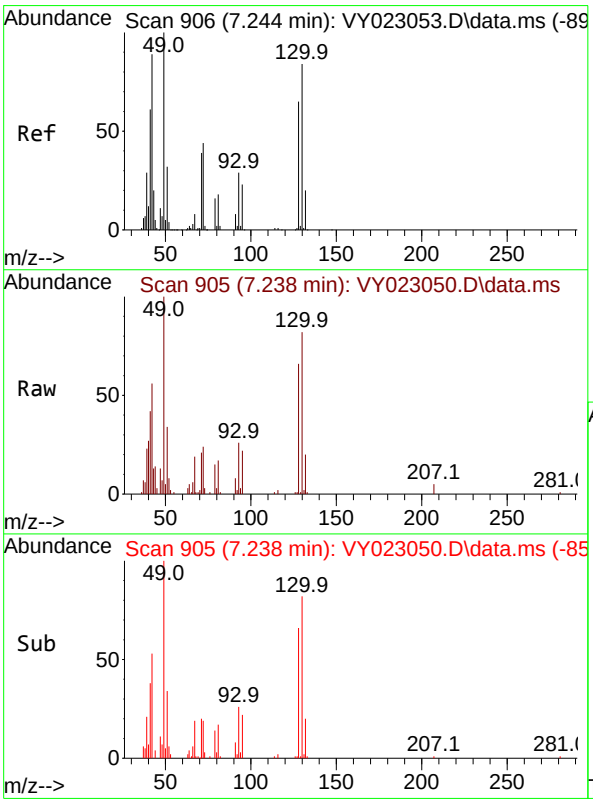
#27
cis-1,2-Dichloroethene
Concen: 4.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

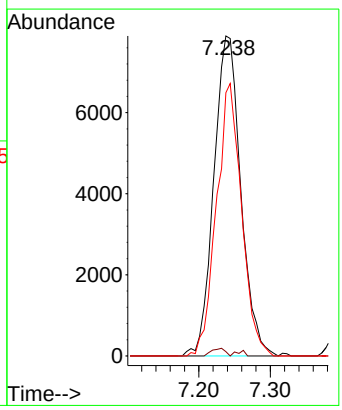


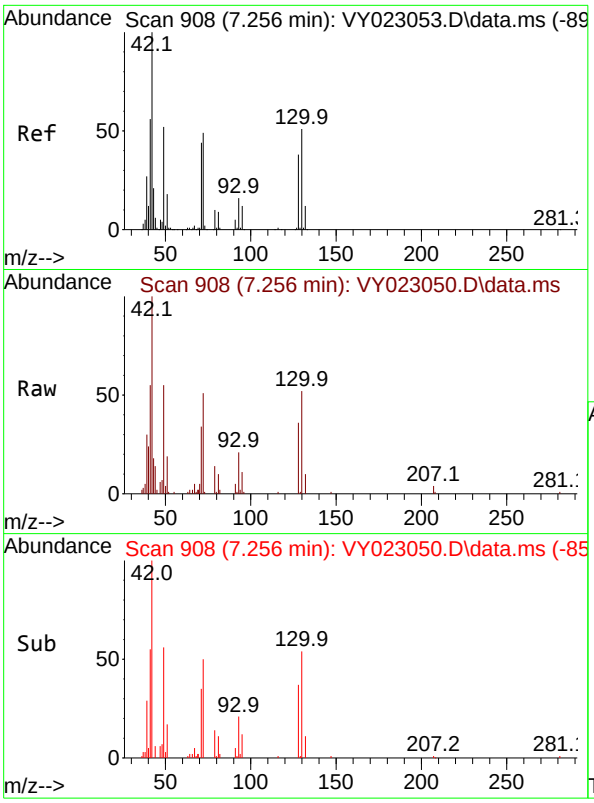


#28
Bromochloromethane
Concen: 4.913 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



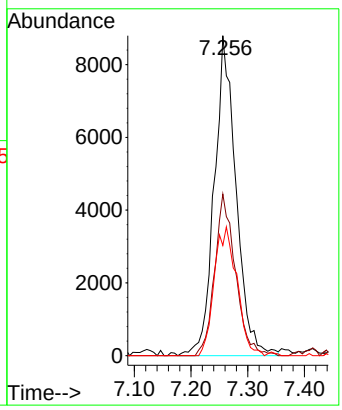


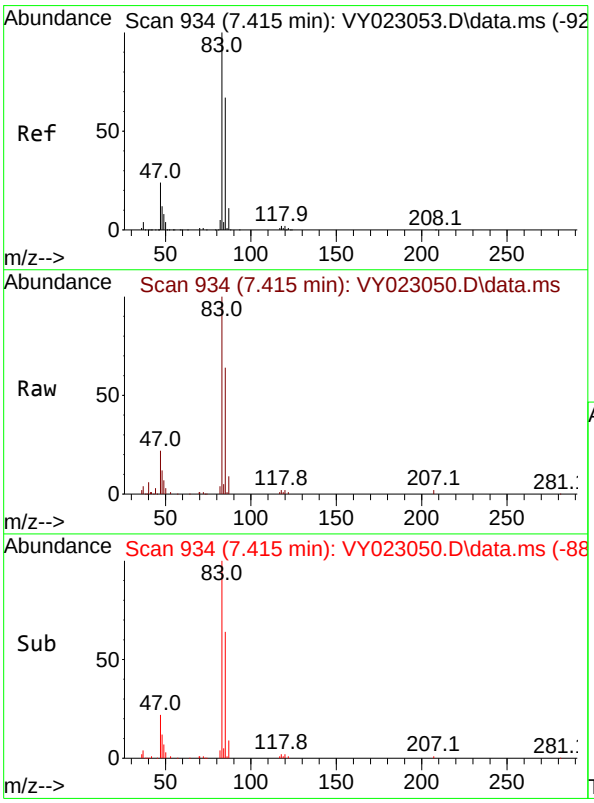
#29
Tetrahydrofuran
Concen: 24.035 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

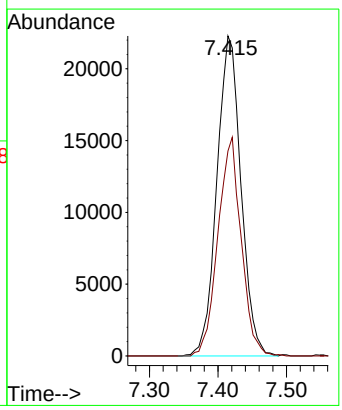


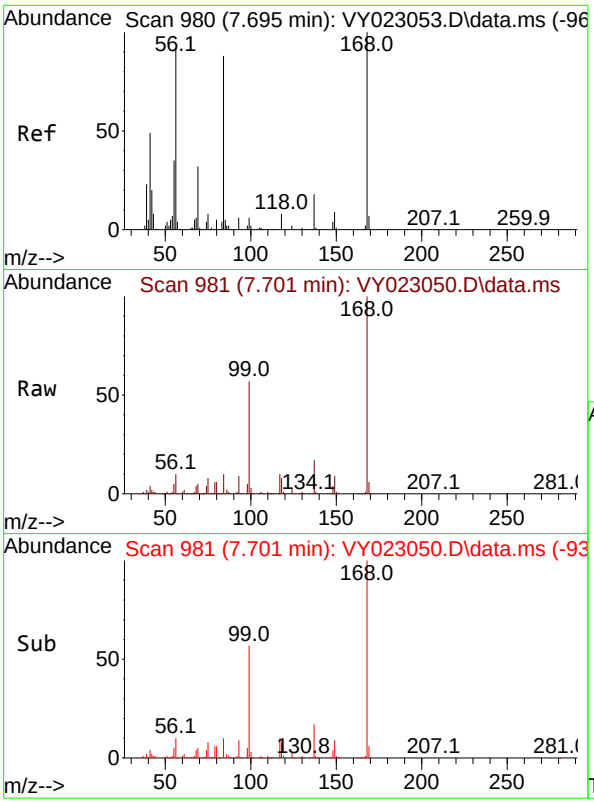


#30
Chloroform
Concen: 4.987 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 54392

Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.8	80.8



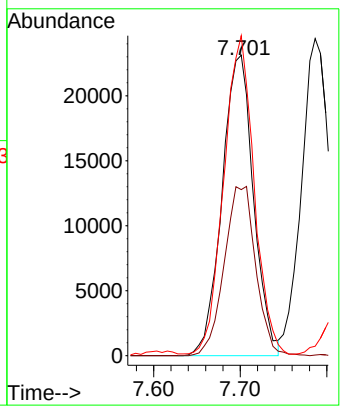


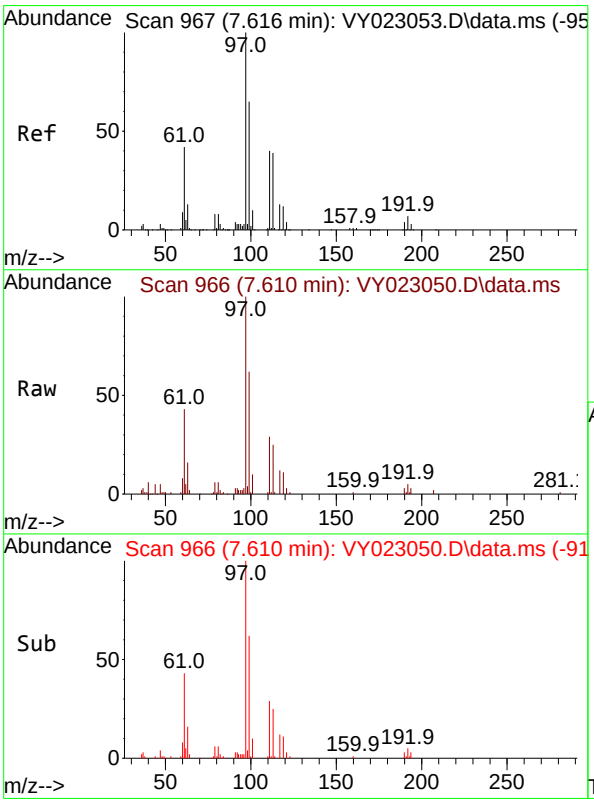
#31
Cyclohexane
Concen: 5.856 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

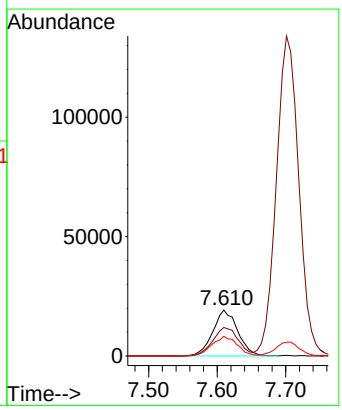


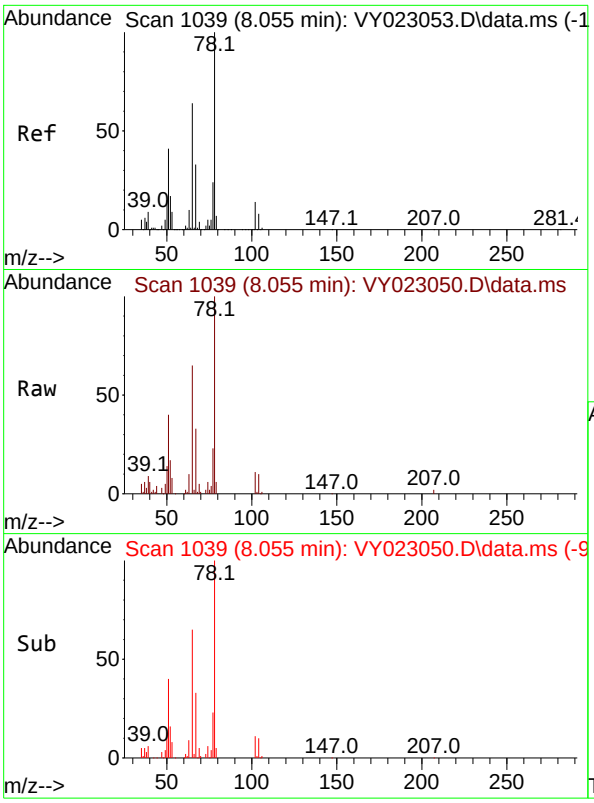


#32
1,1,1-Trichloroethane
Concen: 5.003 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



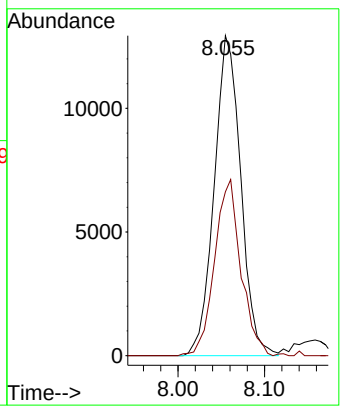


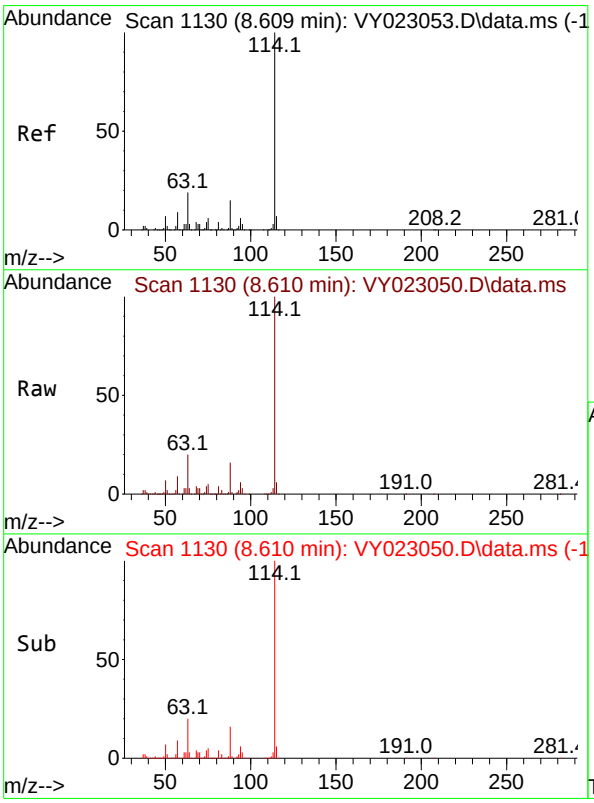
#33
1,2-Dichloroethane-d4
Concen: 5.152 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 27563

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	106.8

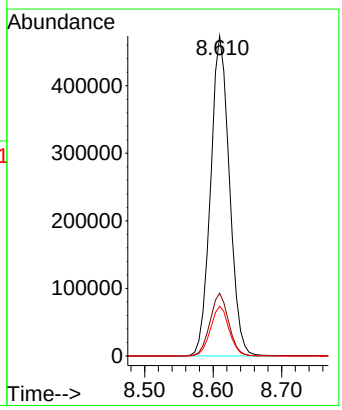


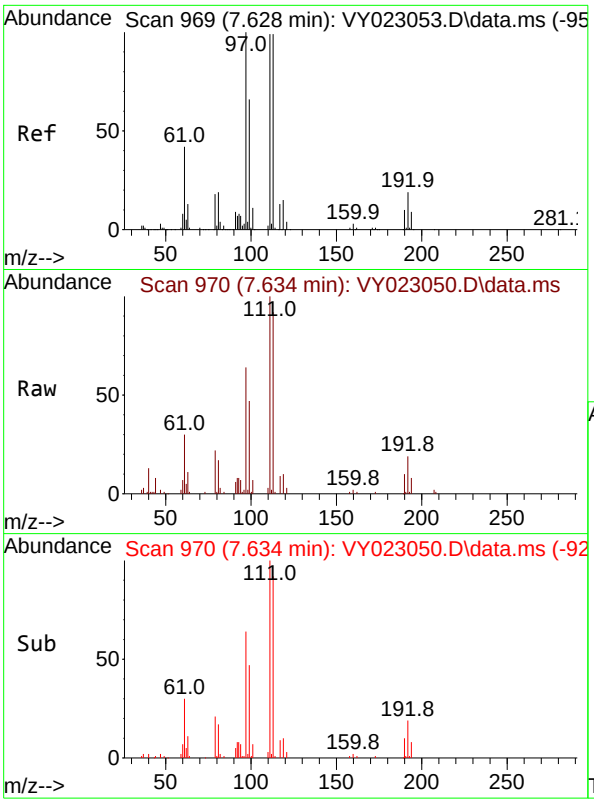


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



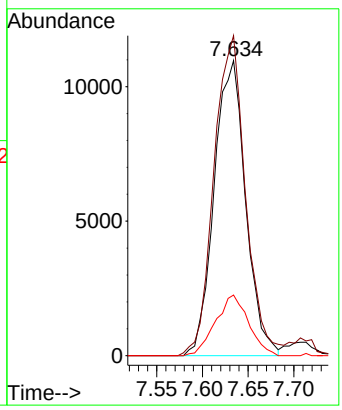


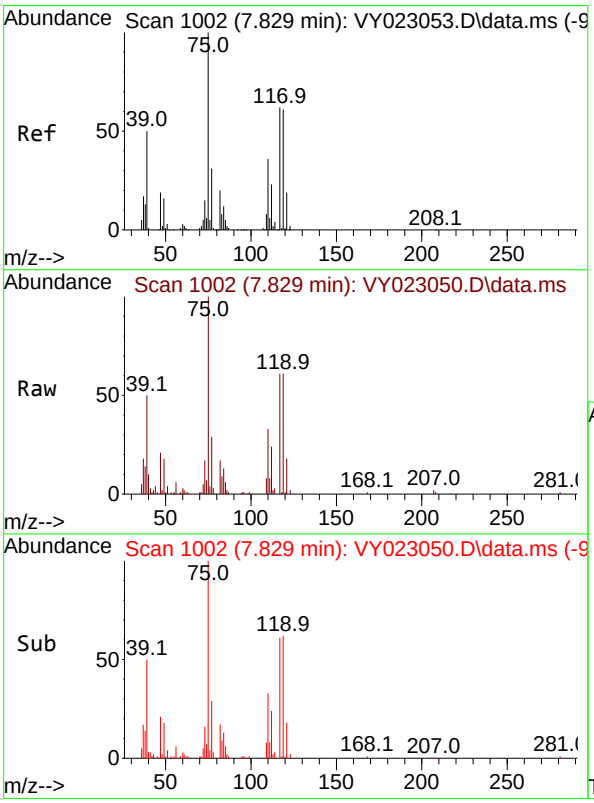
#35
Dibromofluoromethane
Concen: 4.851 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

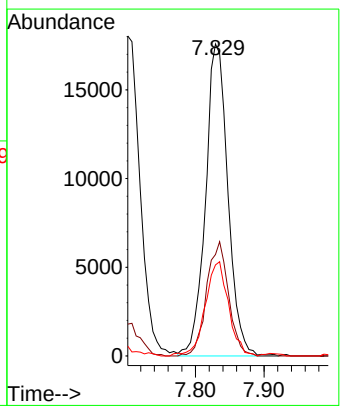


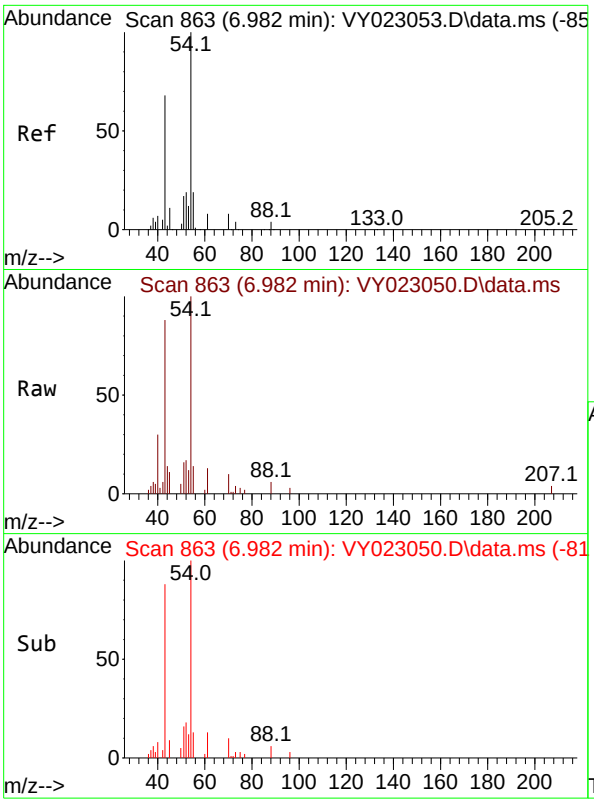


#36
1,1-Dichloropropene
Concen: 4.968 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



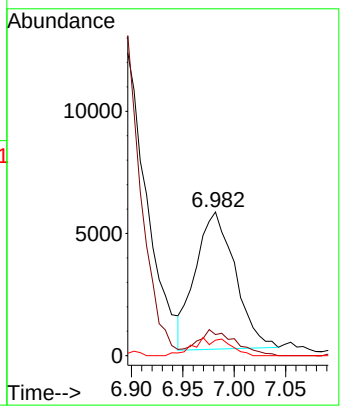


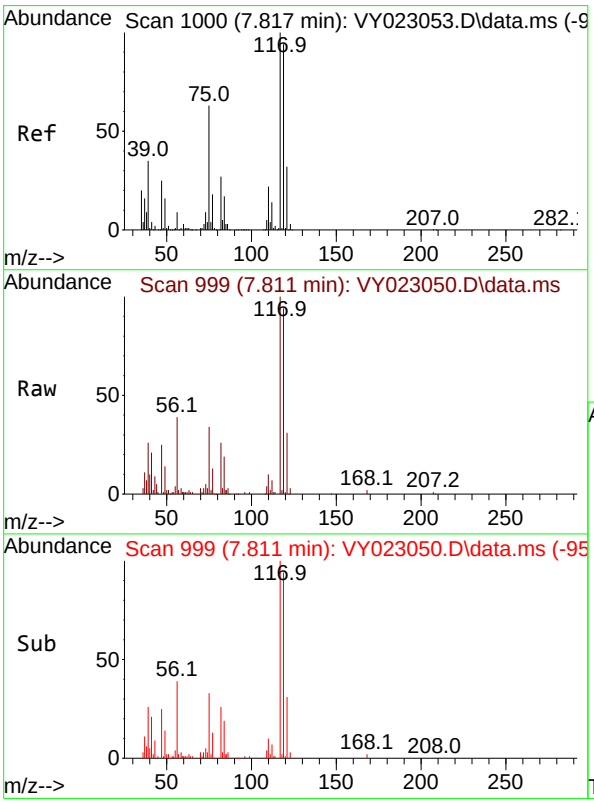
#37
Ethyl Acetate
Concen: 4.461 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

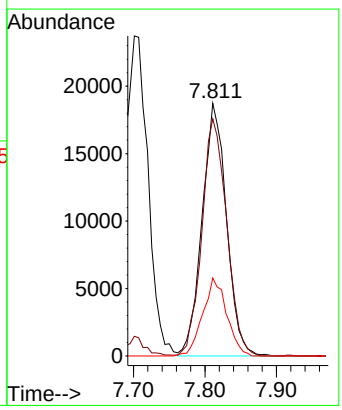


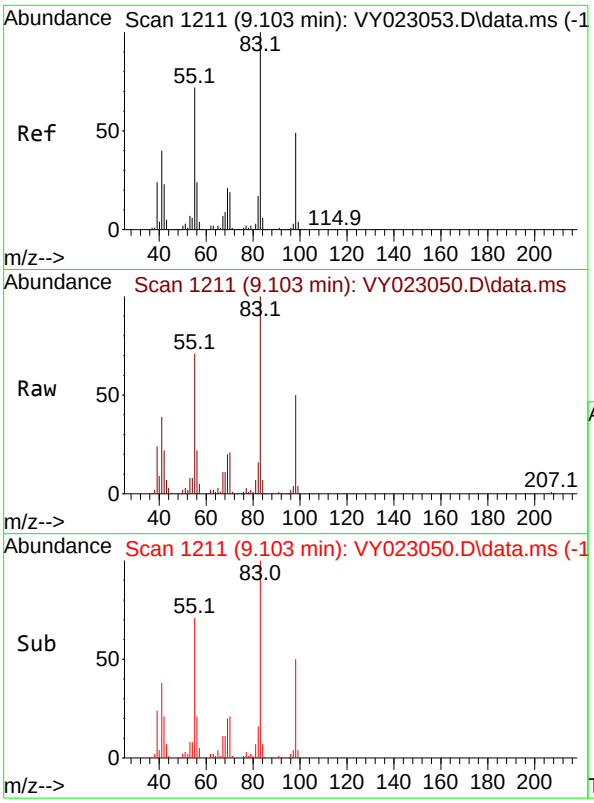


#38
Carbon Tetrachloride
Concen: 5.076 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



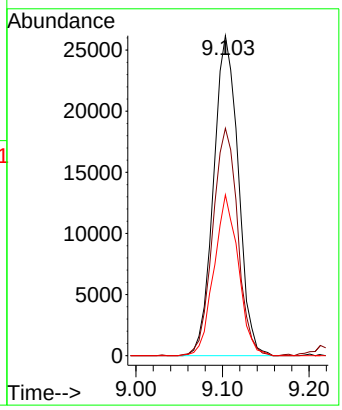


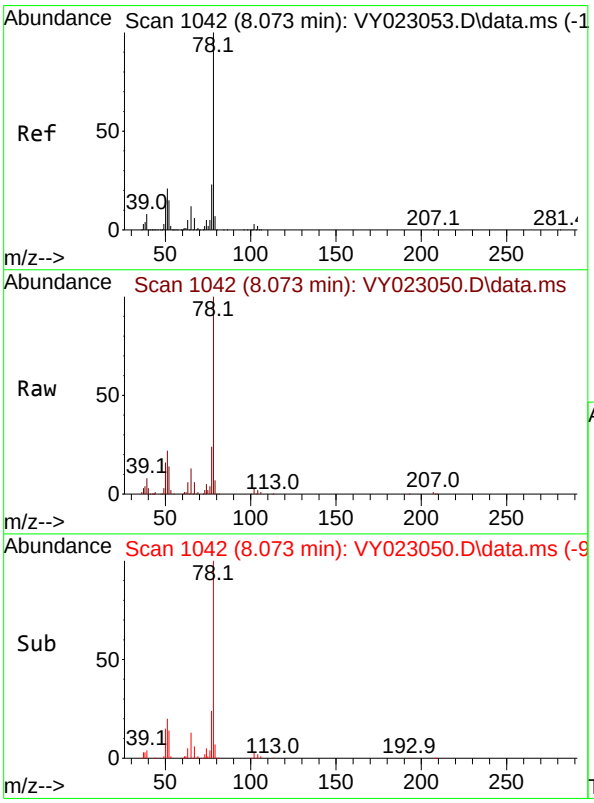
#39
Methylcyclohexane
Concen: 4.901 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

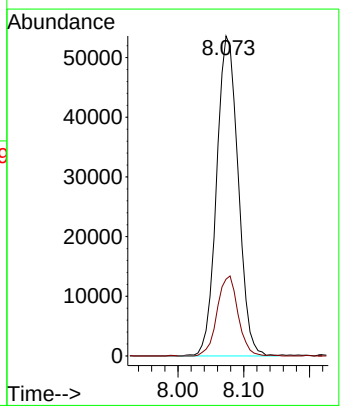


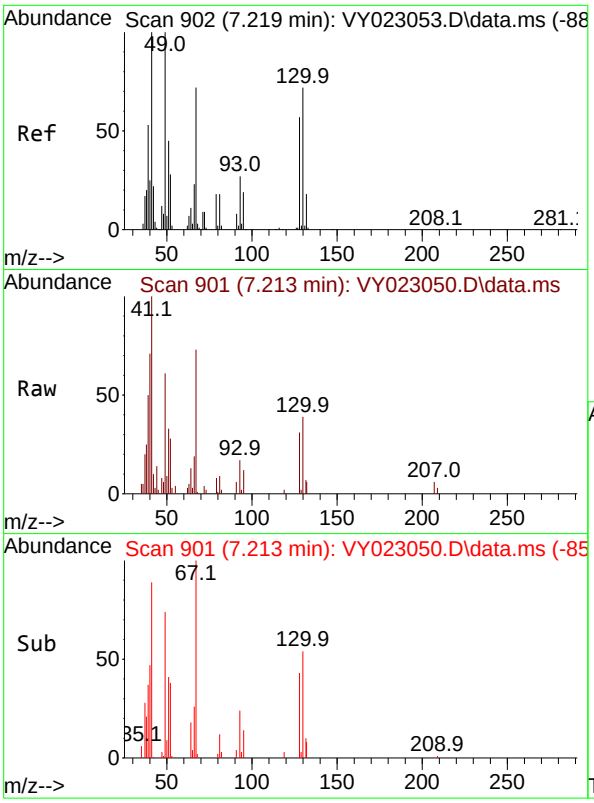


#40
Benzene
Concen: 4.939 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 78 Resp: 122482

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0



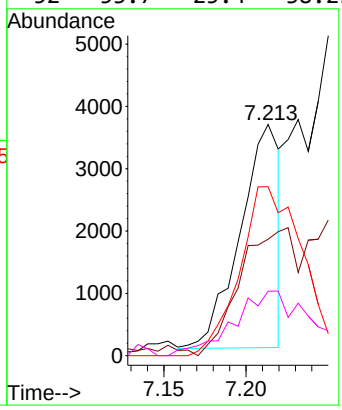


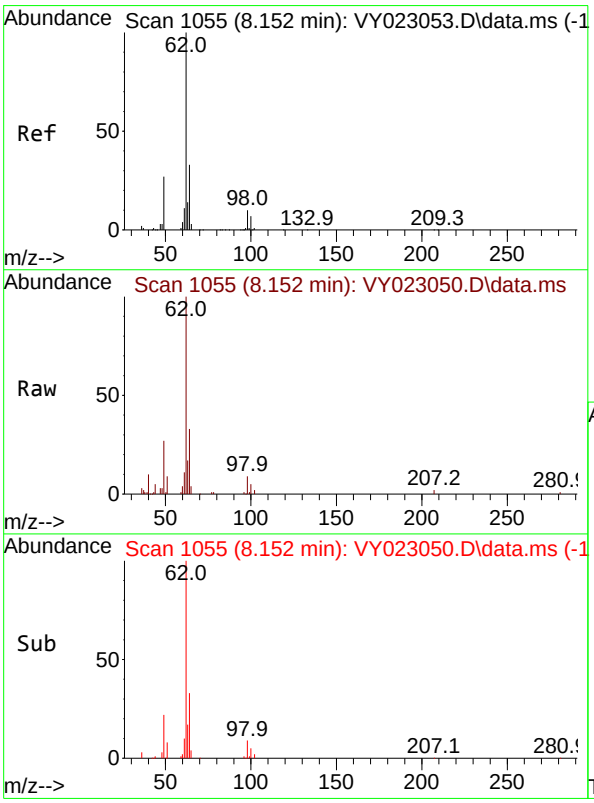
#41
Methacrylonitrile
Concen: 3.075 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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#

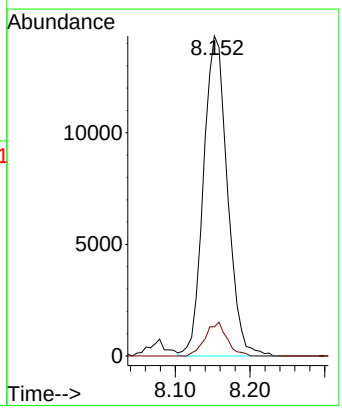


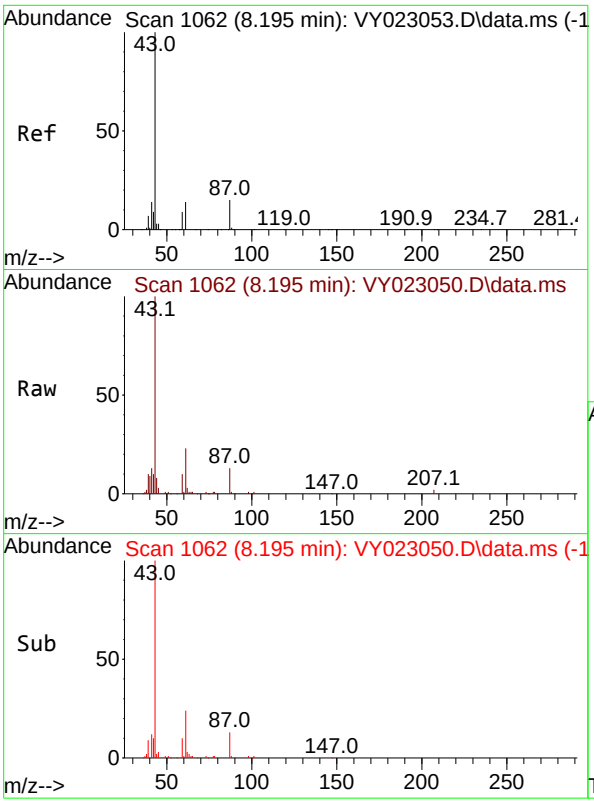


#42
1,2-Dichloroethane
Concen: 4.946 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 31902

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6



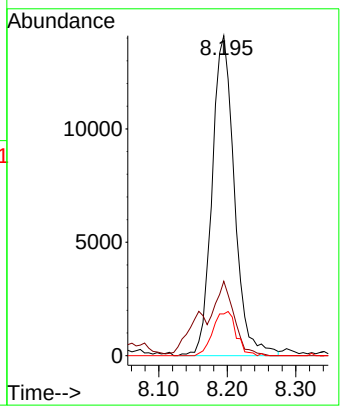


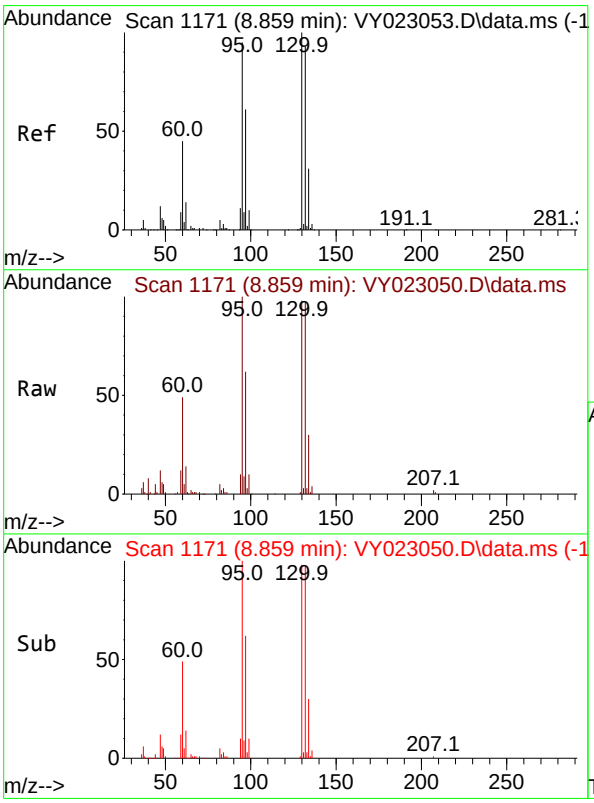
#43
Isopropyl Acetate
Concen: 4.668 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

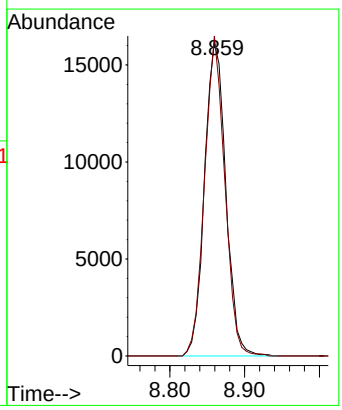


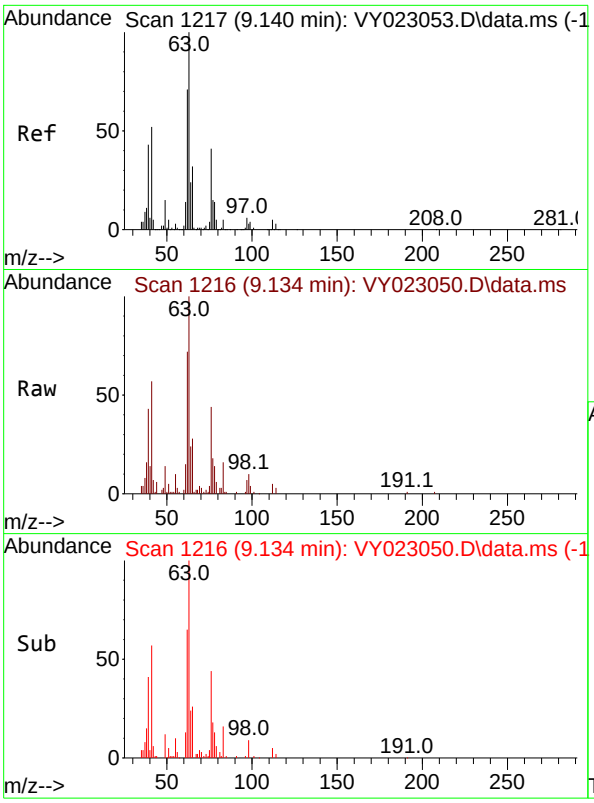


#44
Trichloroethene
Concen: 5.001 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:130 Resp: 32050

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	190.2



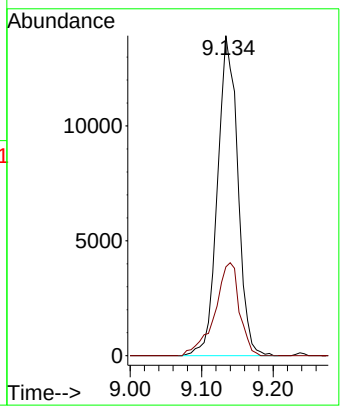


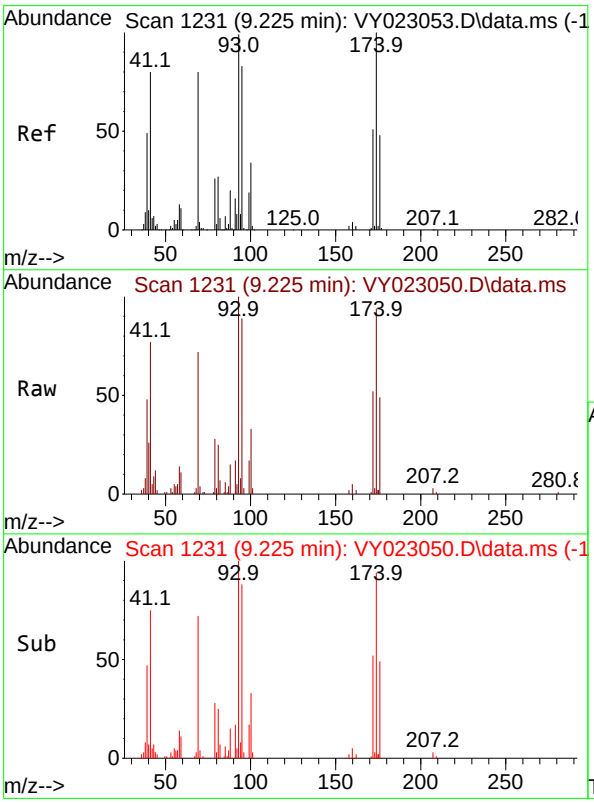
#45
1,2-Dichloropropane
Concen: 4.805 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 27418

Ion	Ratio	Lower	Upper
63	100		
65	27.7	25.3	37.9

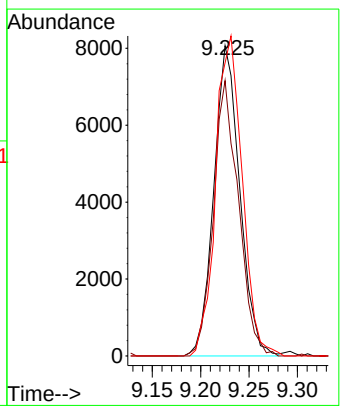


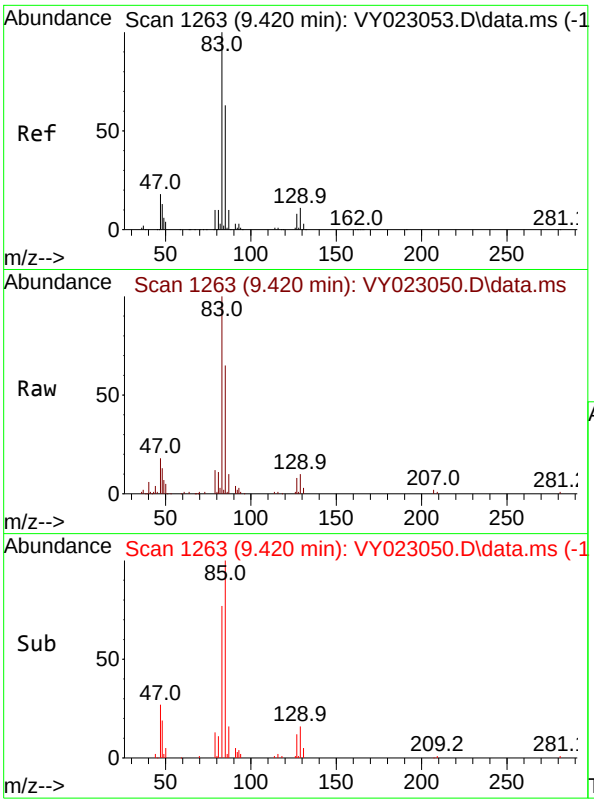


#46
Dibromomethane
Concen: 4.590 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



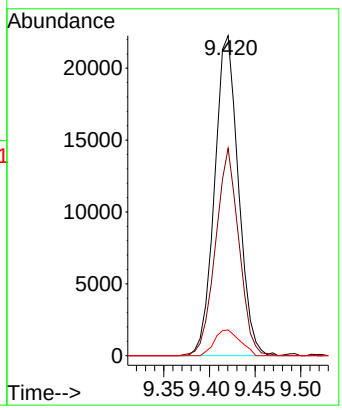


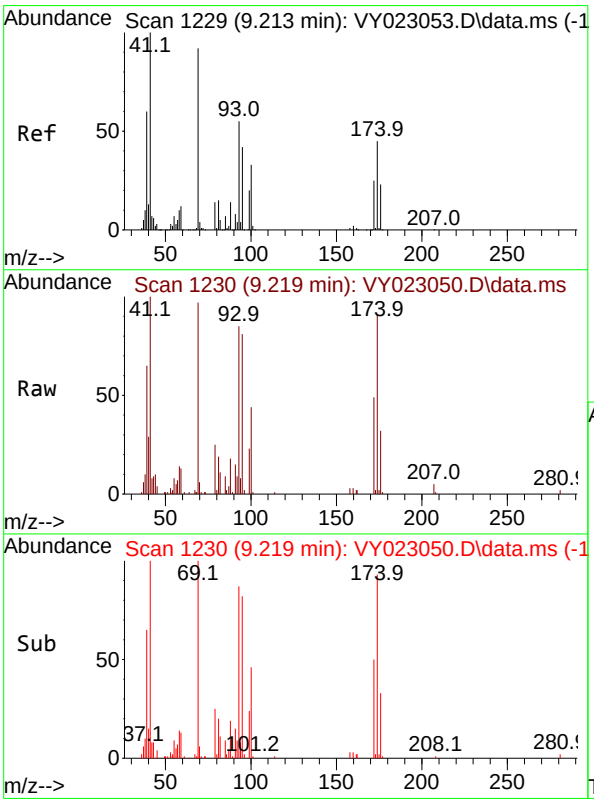
#47
Bromodichloromethane
Concen: 4.785 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

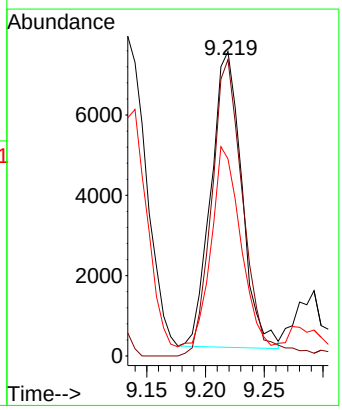


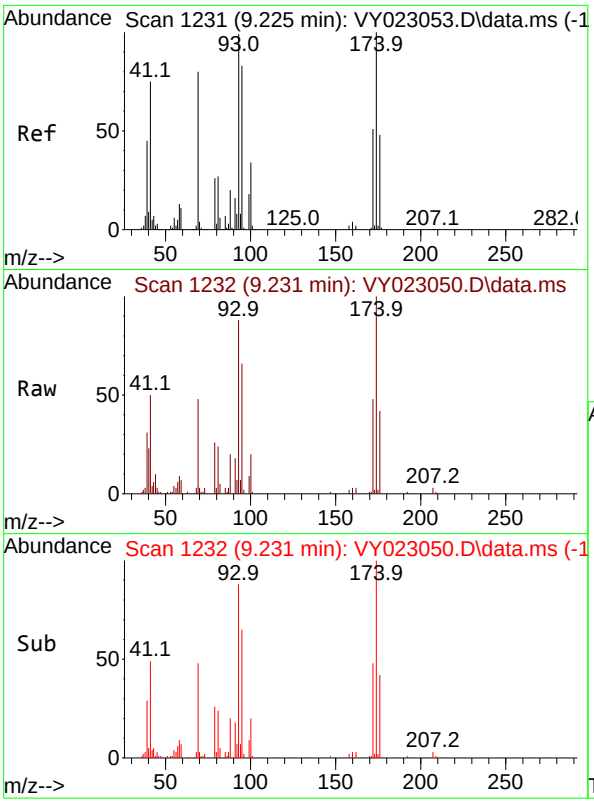


#48
Methyl methacrylate
Concen: 4.122 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



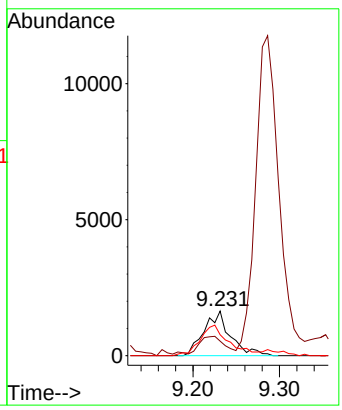


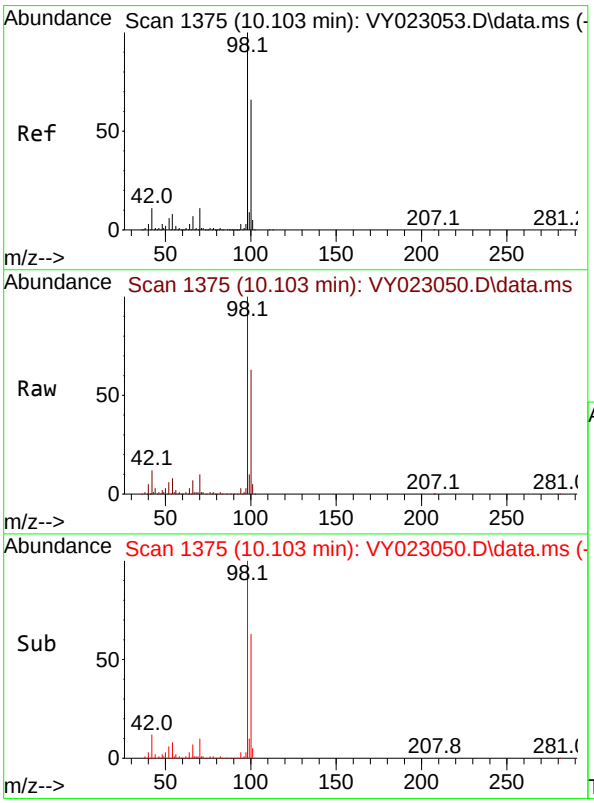
#49
1,4-Dioxane
Concen: 89.939 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

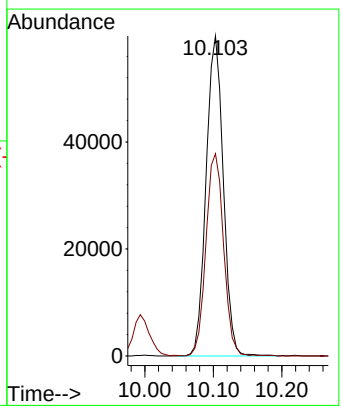


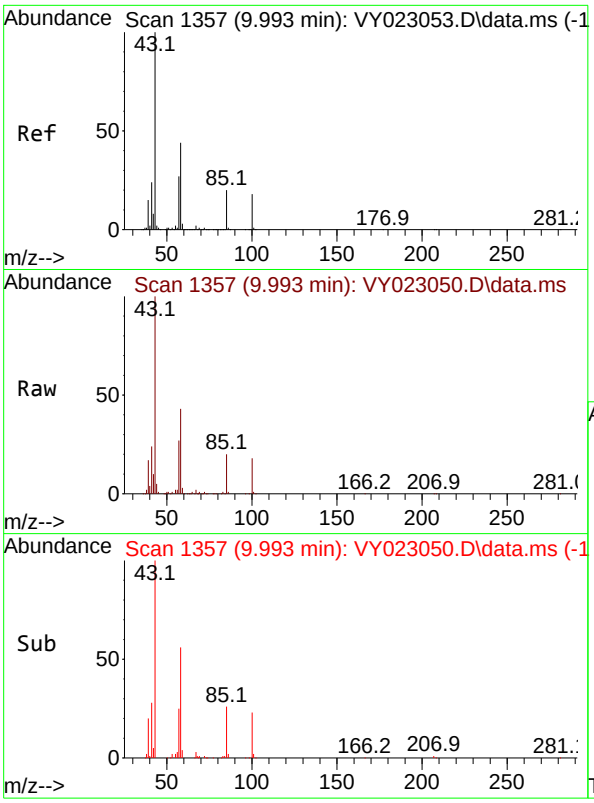


#50
Toluene-d8
Concen: 4.924 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 98 Resp: 104144

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5



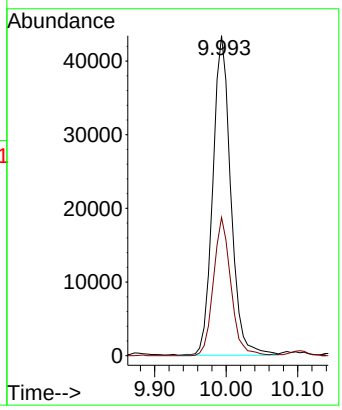


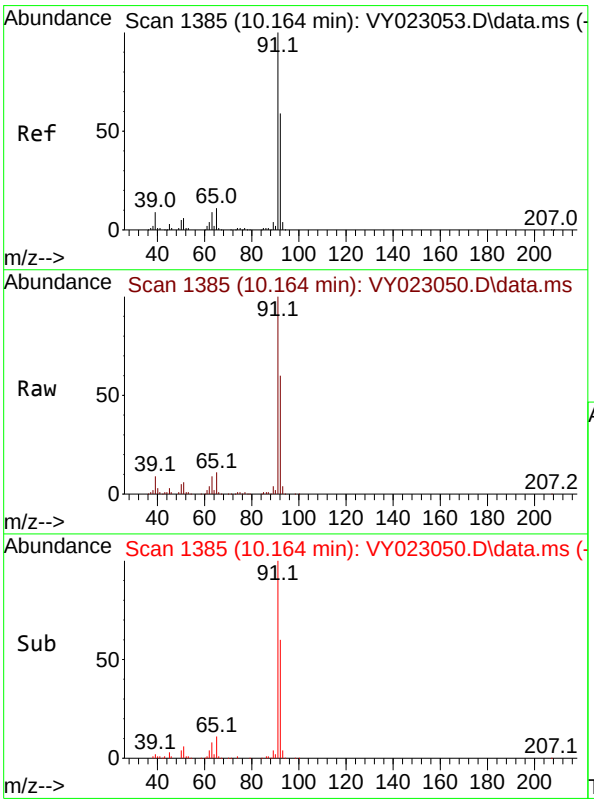
#51
4-Methyl-2-Pentanone
Concen: 21.535 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 75891

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3

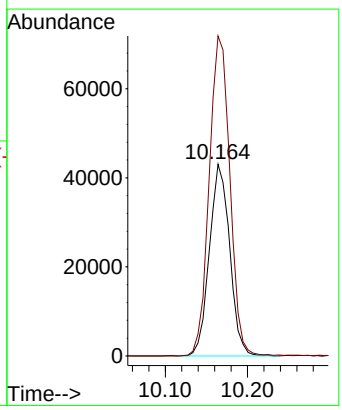


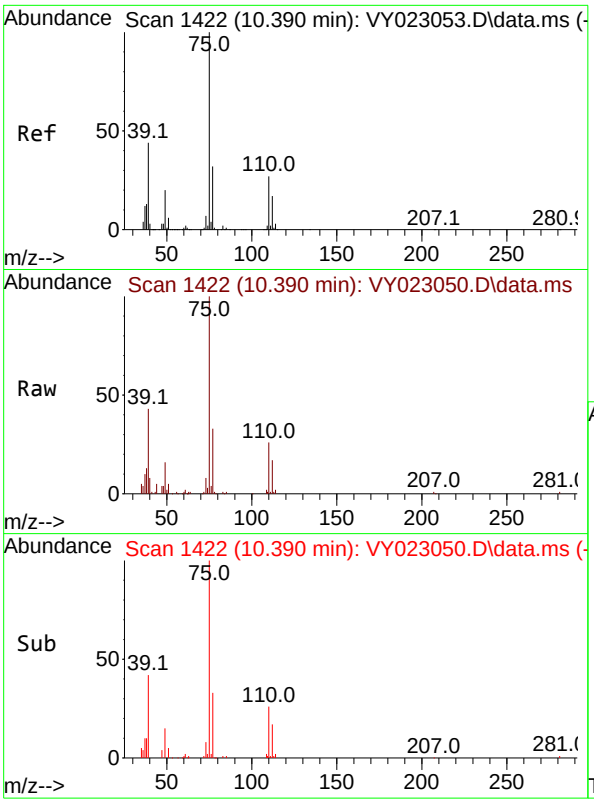


#52
Toluene
Concen: 4.692 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 92 Resp: 73910

Ion	Ratio	Lower	Upper
92	100		
91	170.1	136.4	204.6



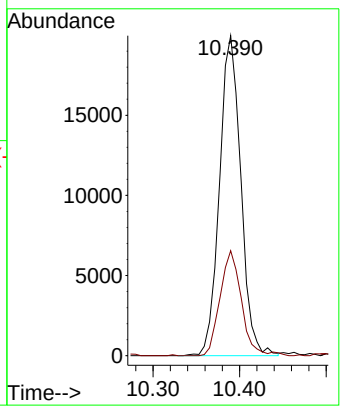


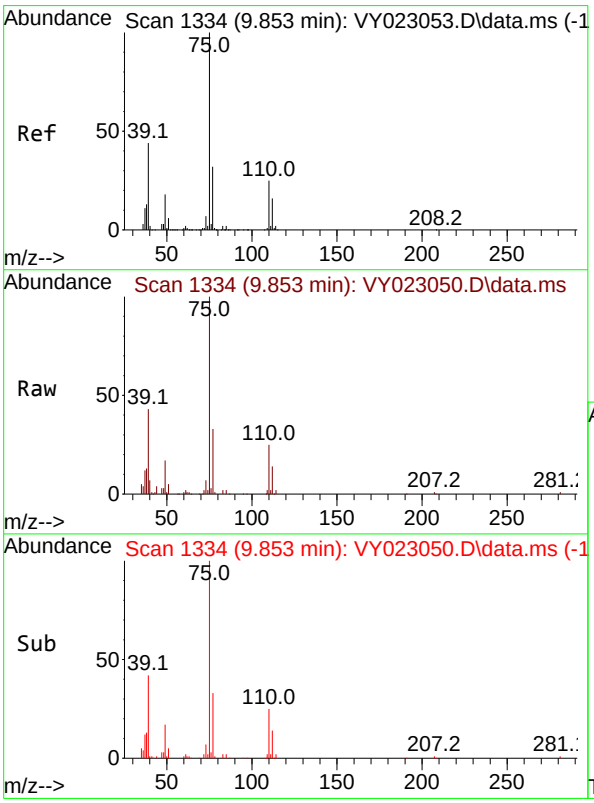
#53
t-1,3-Dichloropropene
Concen: 4.475 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 34154

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.7	38.5

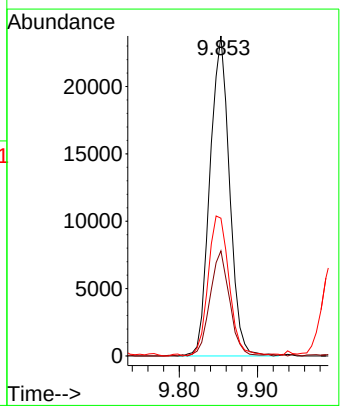


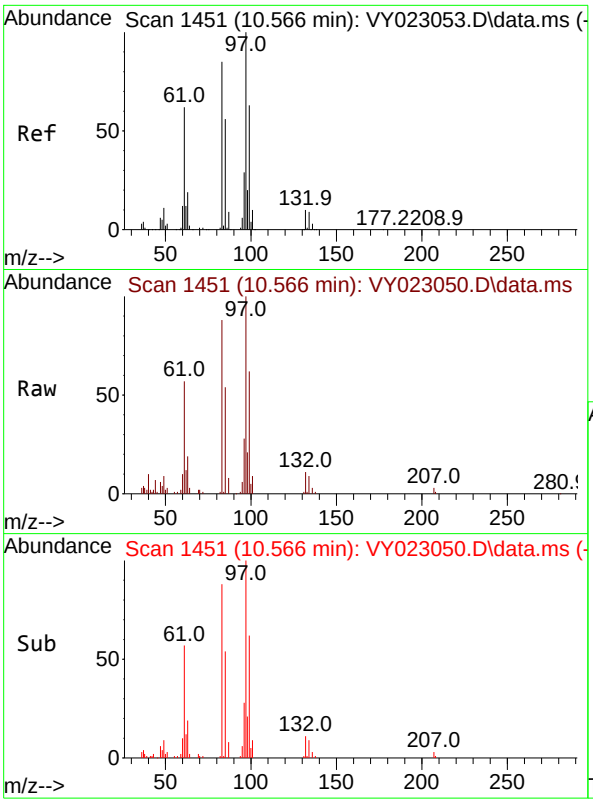


#54
cis-1,3-Dichloropropene
Concen: 4.579 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



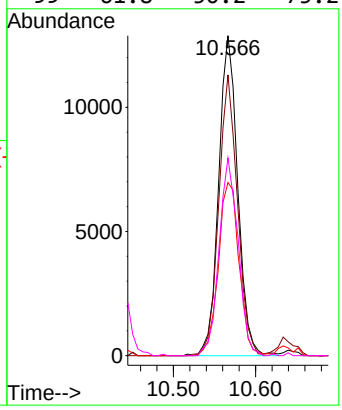


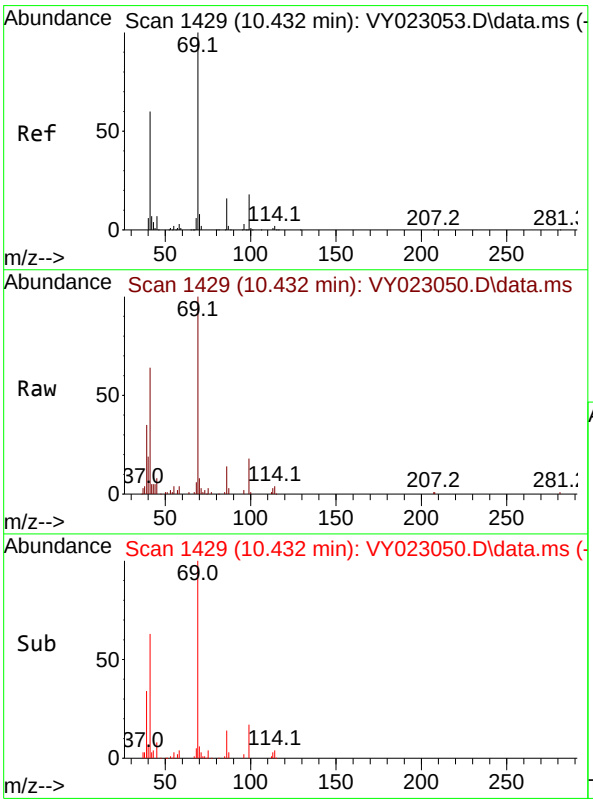
#55
1,1,2-Trichloroethane
Concen: 4.745 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

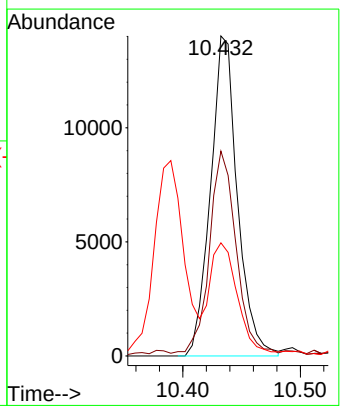


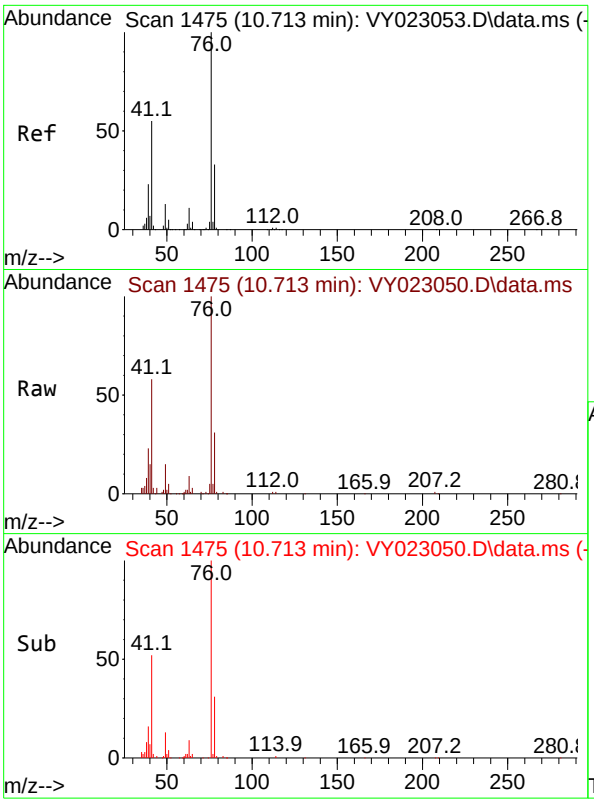


#56
Ethyl methacrylate
Concen: 3.990 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



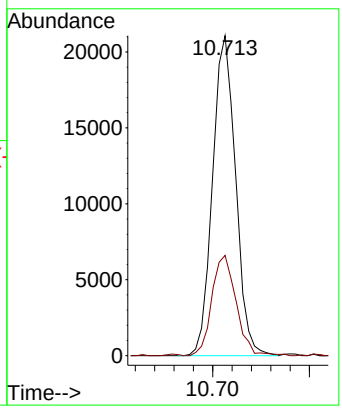


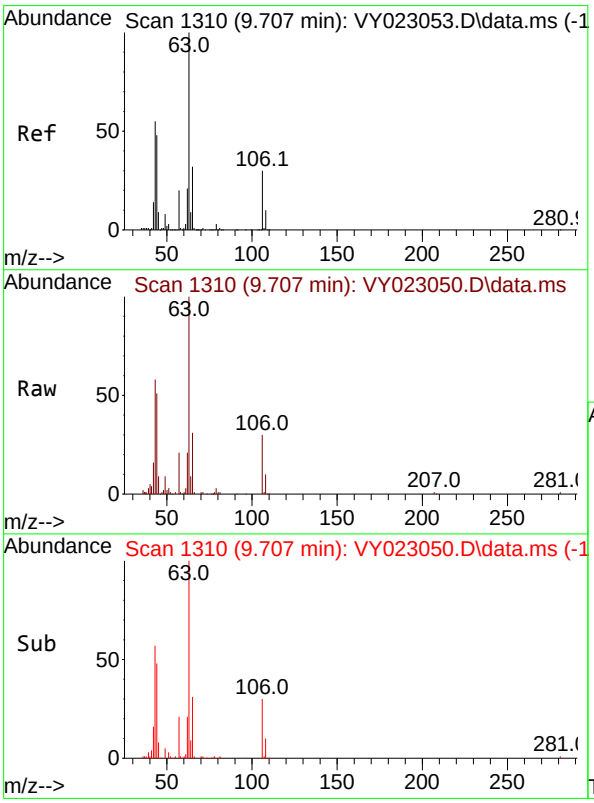
#57
1,3-Dichloropropane
Concen: 4.687 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 34835

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.0	39.0

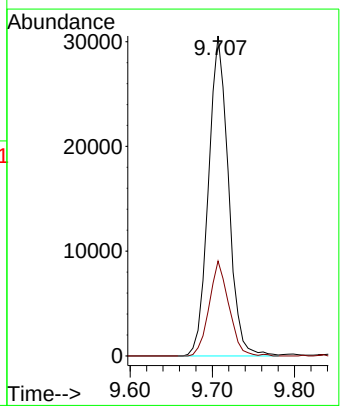


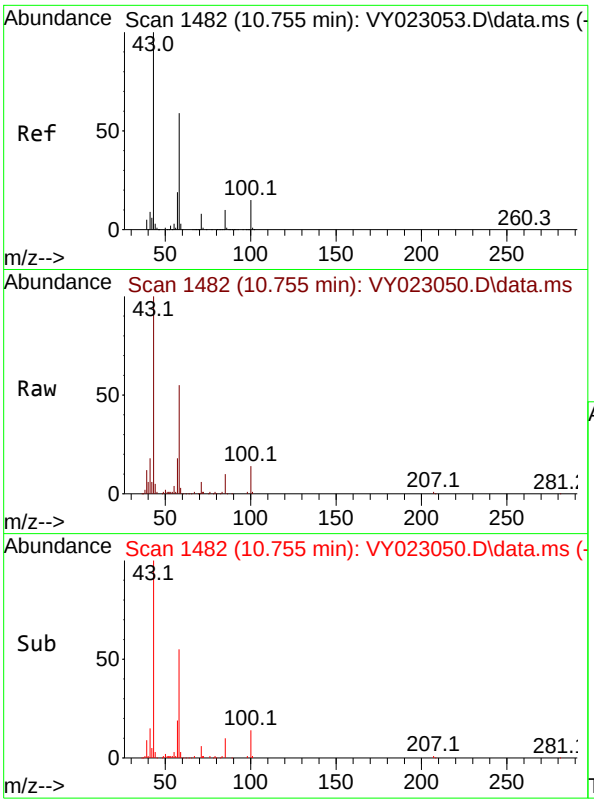


#58
2-Chloroethyl Vinyl ether
Concen: 19.500 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 51585

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.2	34.8



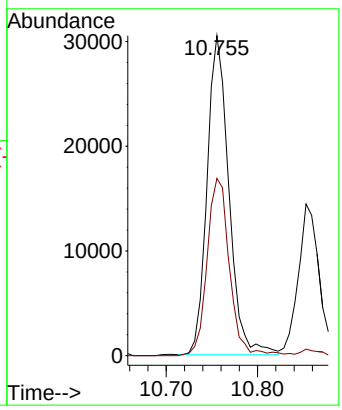


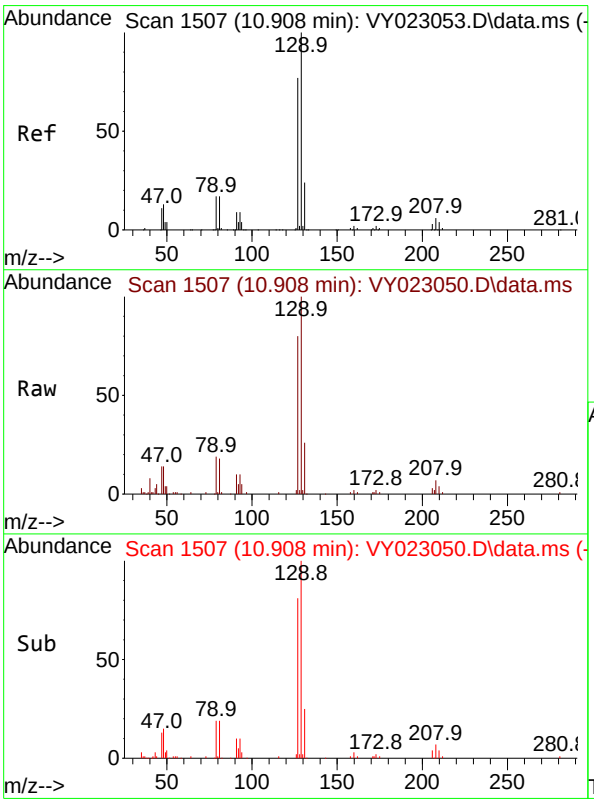
#59
2-Hexanone
Concen: 21.088 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 50604

Ion	Ratio	Lower	Upper
43	100		
58	56.9	29.5	88.5

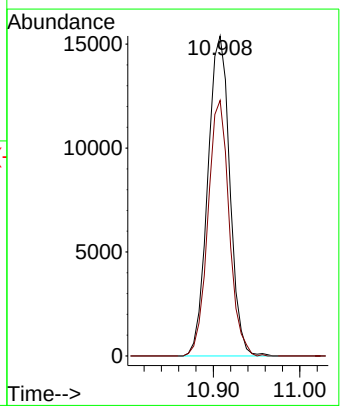


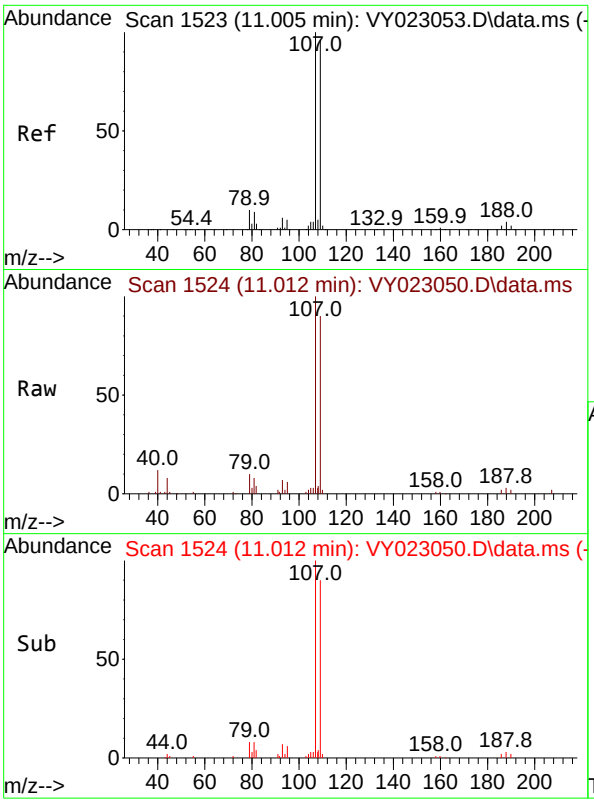


#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:129 Resp: 27141

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5



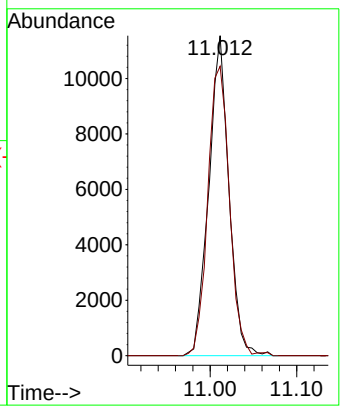


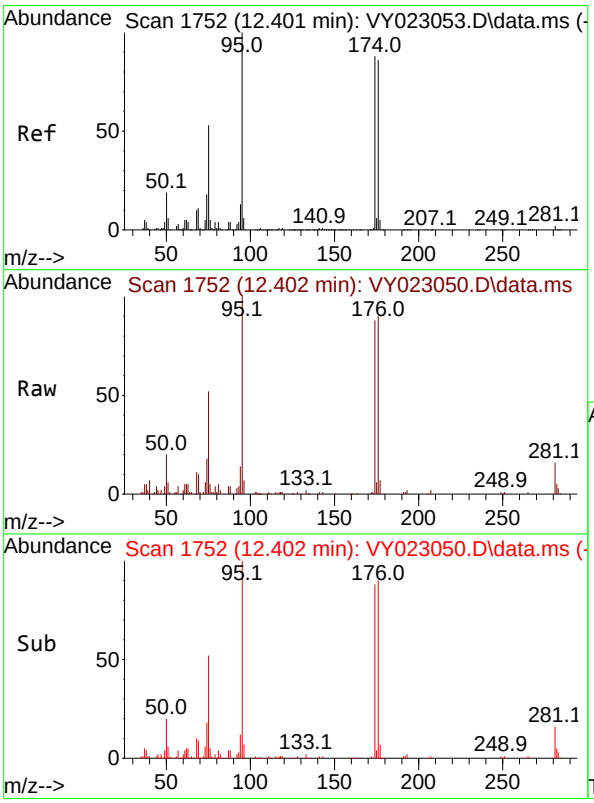
#61
1,2-Dibromoethane
Concen: 4.528 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 18652

Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.6	113.4

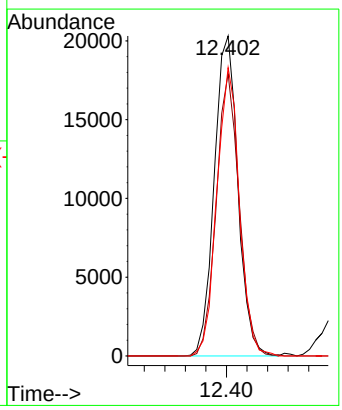


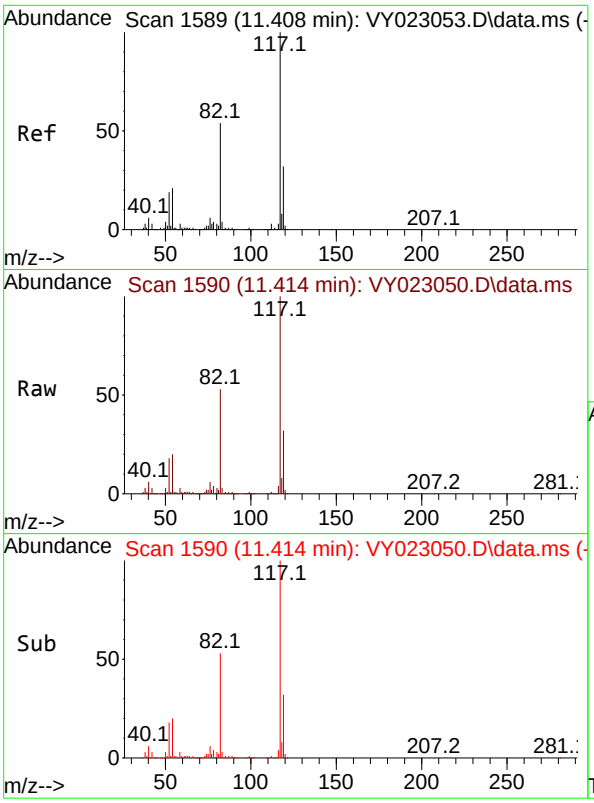


#62
4-Bromofluorobenzene
Concen: 4.766 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



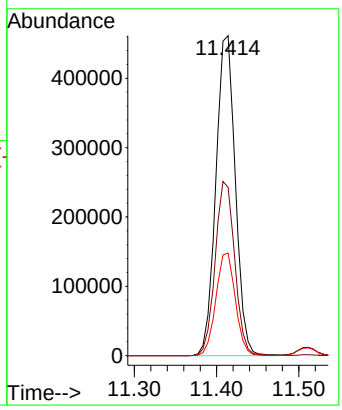


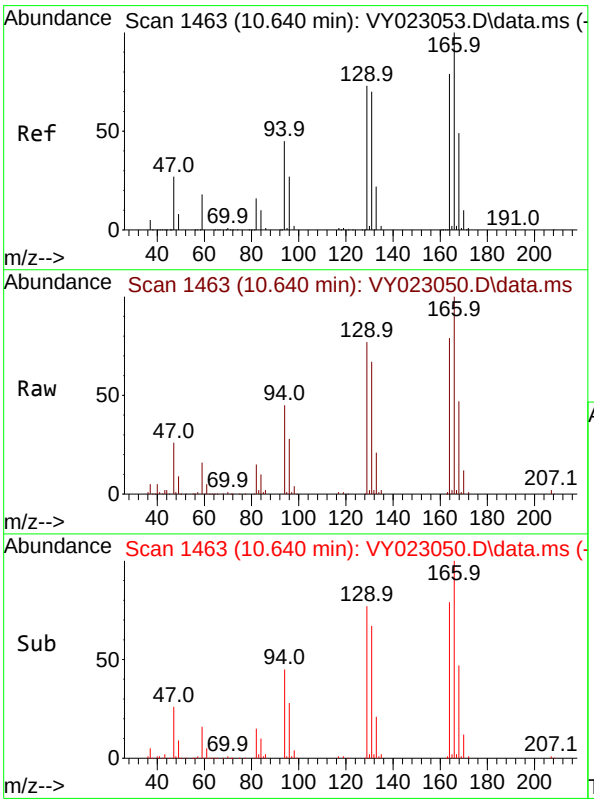
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

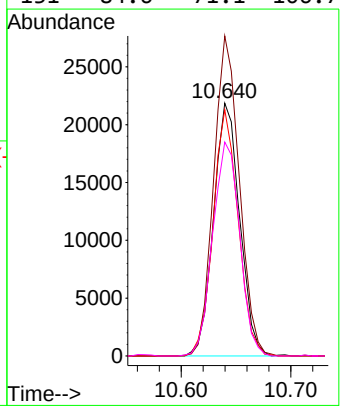


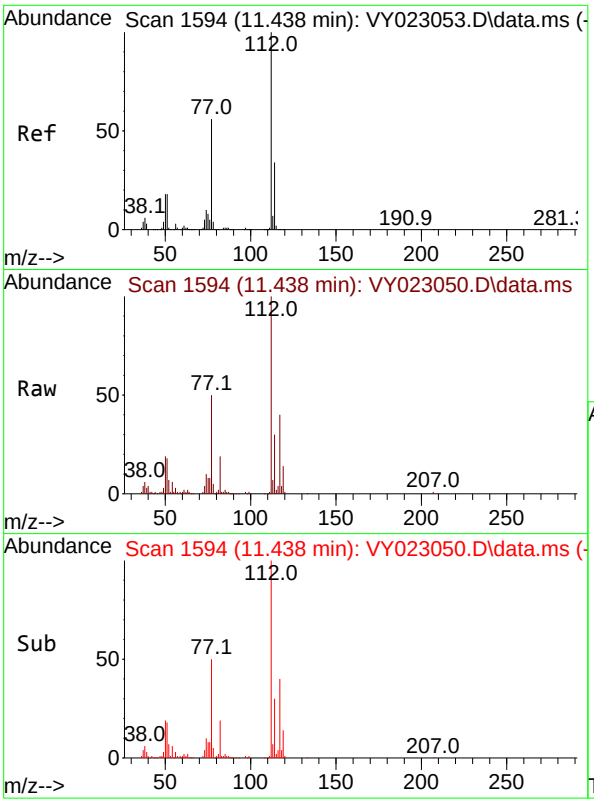


#64
Tetrachloroethene
Concen: 5.336 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



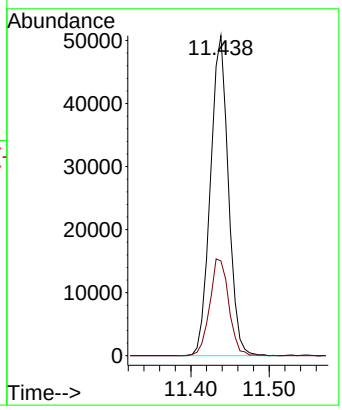


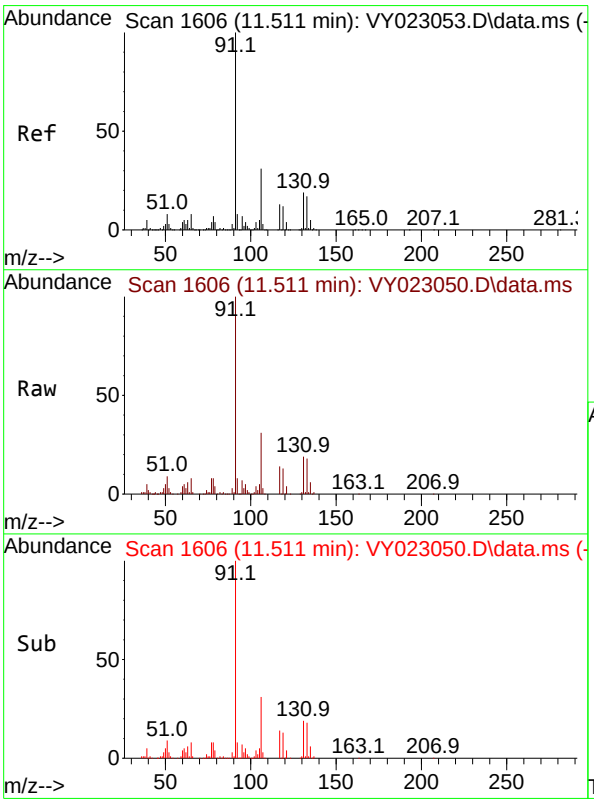
#65
Chlorobenzene
Concen: 4.922 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 80684

Ion	Ratio	Lower	Upper
112	100		
114	29.6	27.0	40.4

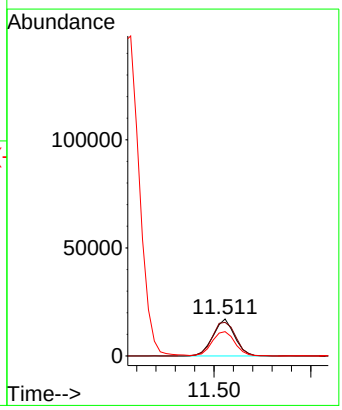


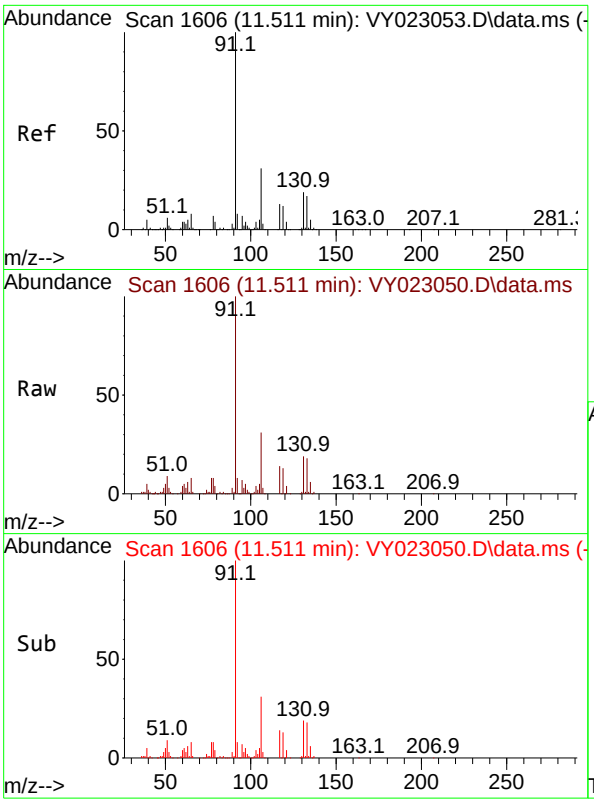


#66
1,1,1,2-Tetrachloroethane
Concen: 4.745 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



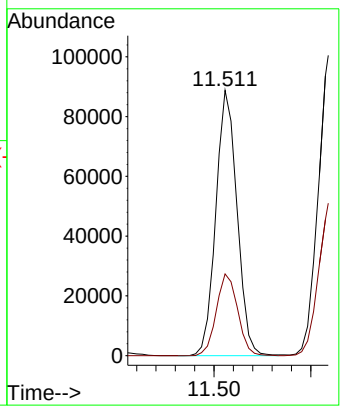


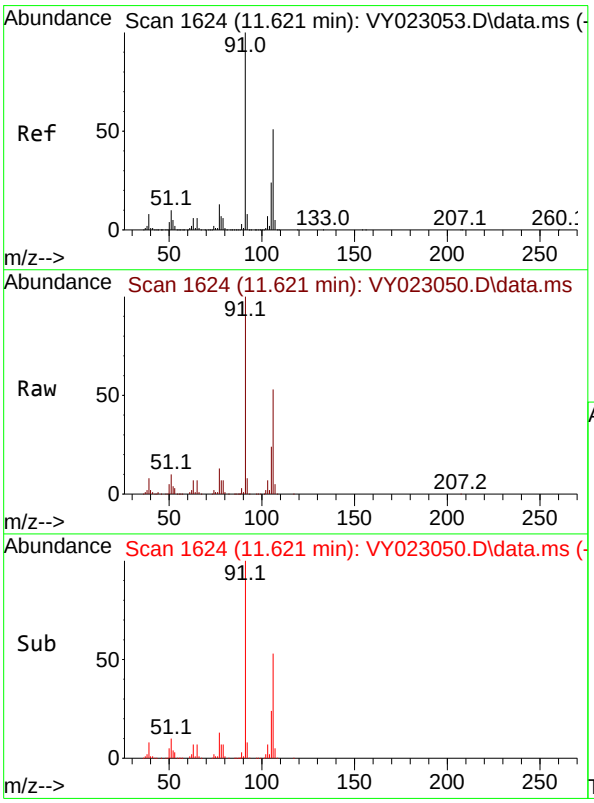
#67
Ethyl Benzene
Concen: 4.781 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 134854

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4

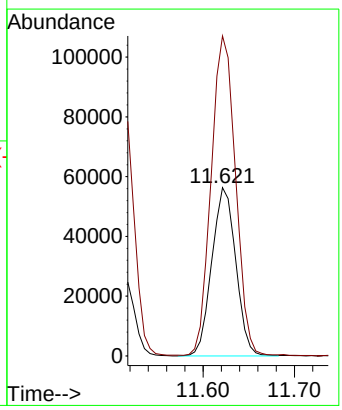


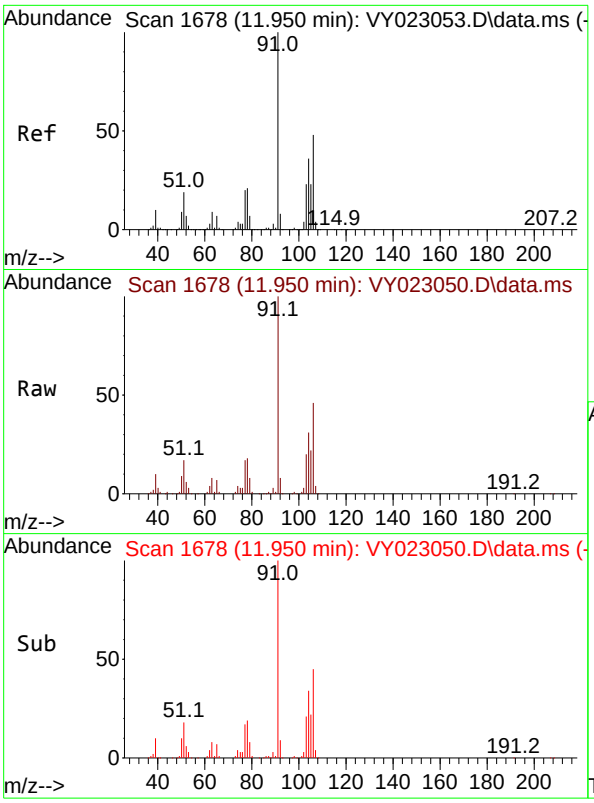


#68
m/p-Xylenes
Concen: 9.329 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 102783

Ion	Ratio	Lower	Upper
106	100		
91	194.0	158.6	238.0



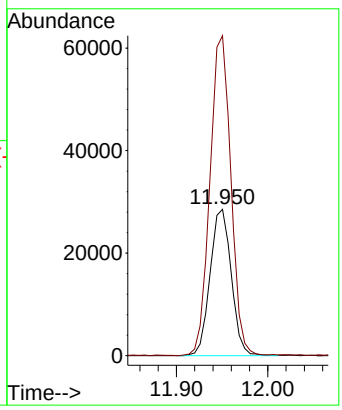


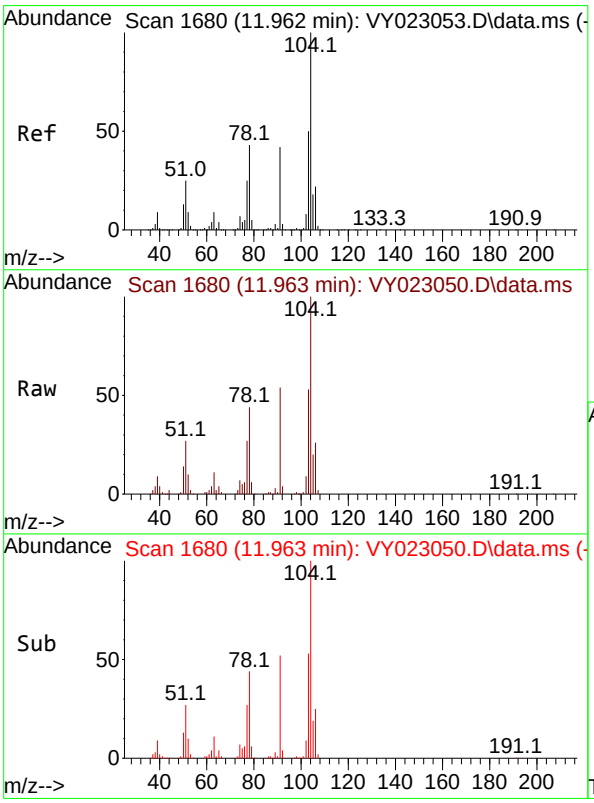
#69
o-Xylene
Concen: 4.453 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 45944

Ion	Ratio	Lower	Upper
106	100		
91	216.3	103.2	309.4

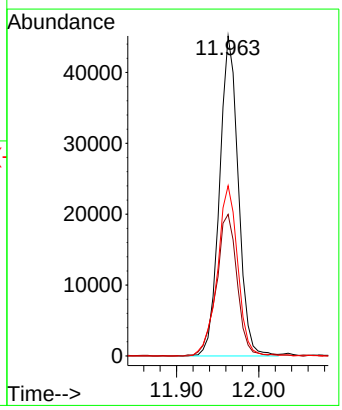


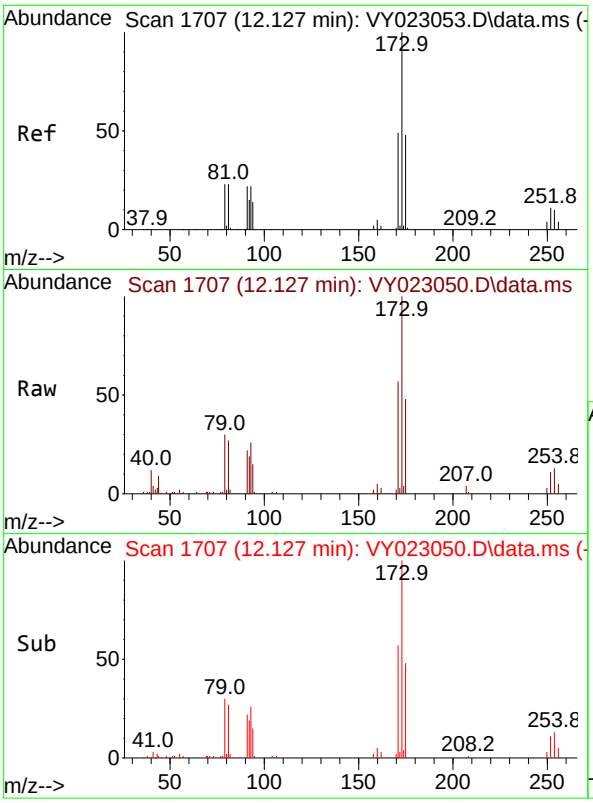


#70
Styrene
Concen: 4.255 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



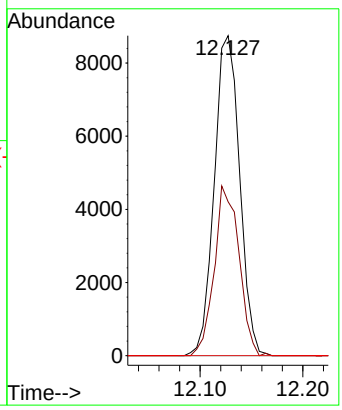


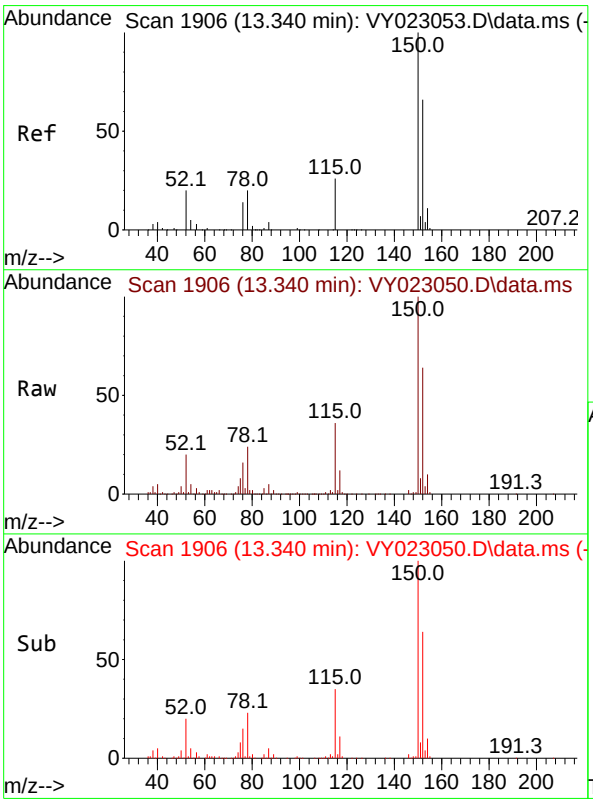
#71
Bromoform
Concen: 4.599 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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#

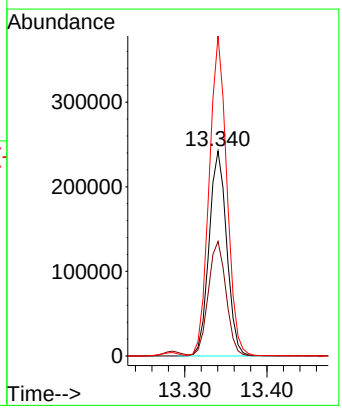


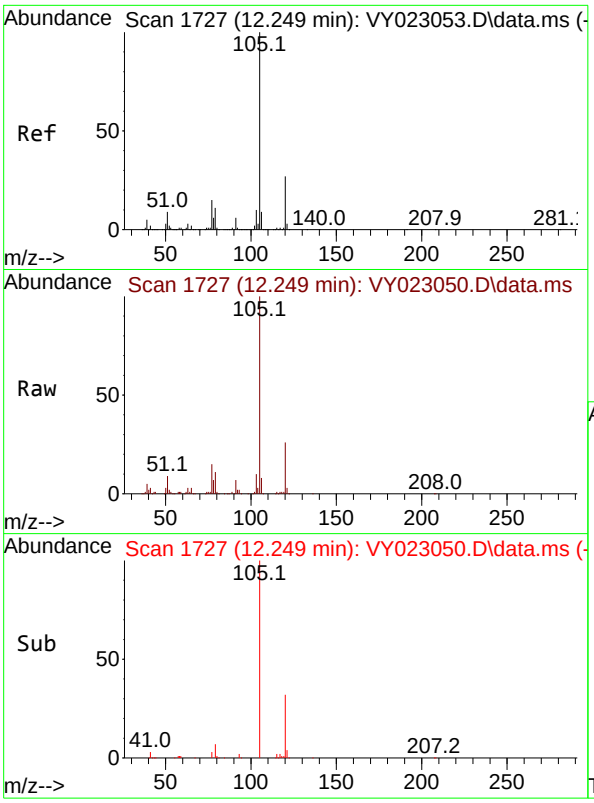


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



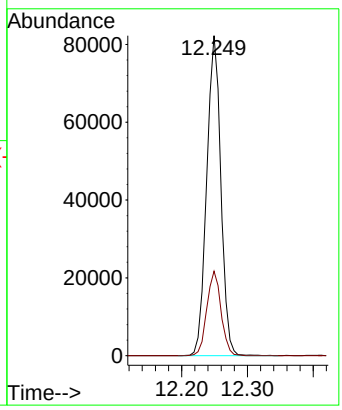


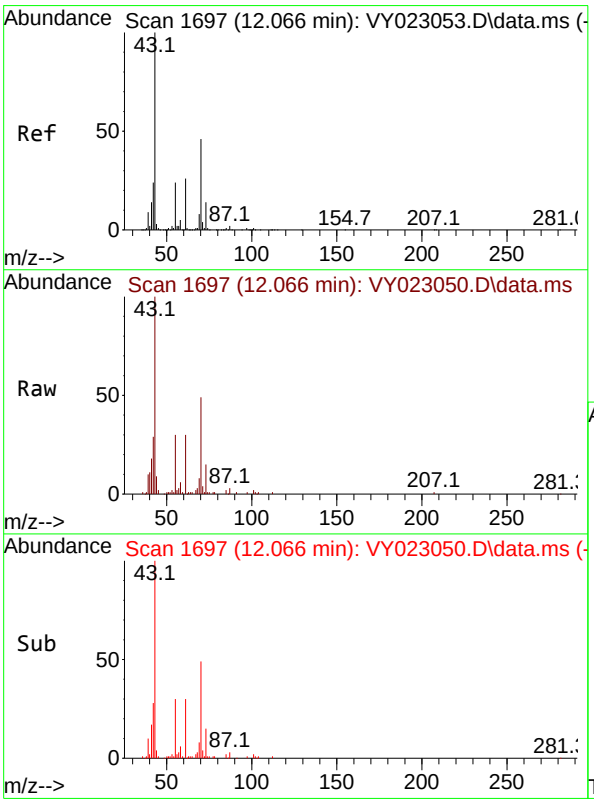
#73
Isopropylbenzene
Concen: 4.845 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 123246

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.4	40.2

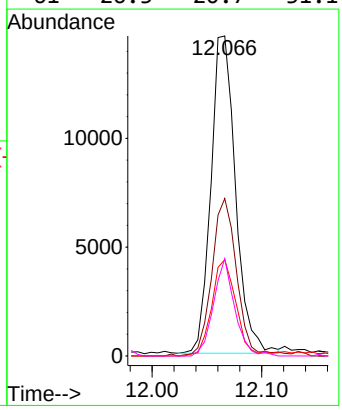


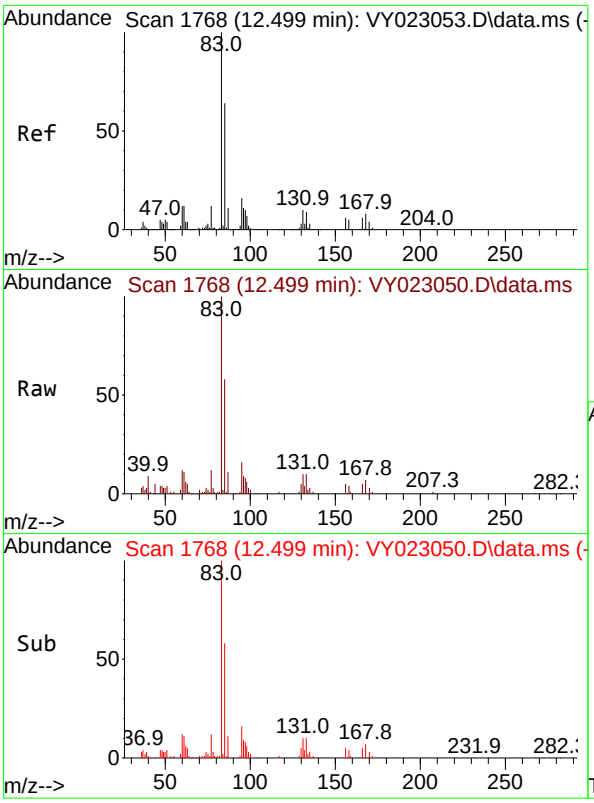


#74
N-amyl acetate
Concen: 4.232 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



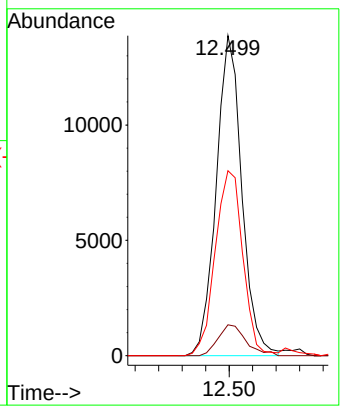


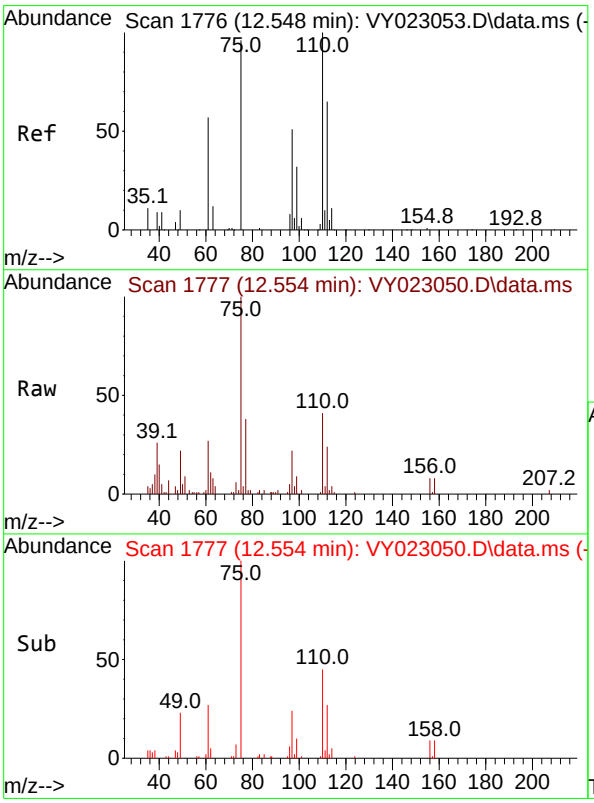
#75
1,1,2,2-Tetrachloroethane
Concen: 4.848 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

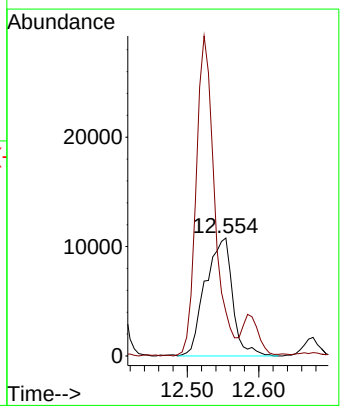


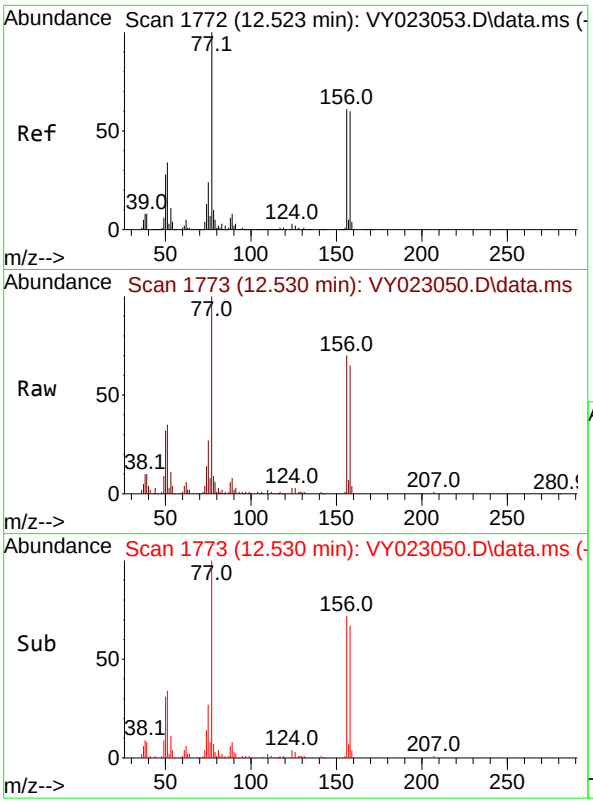


#76
1,2,3-Trichloropropane
Concen: 8.152 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 28374

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



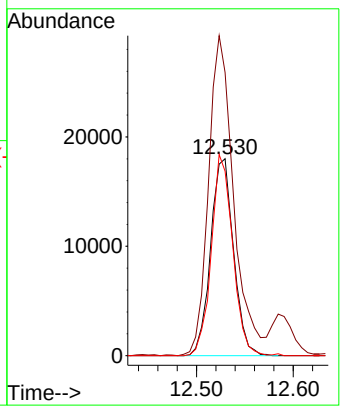


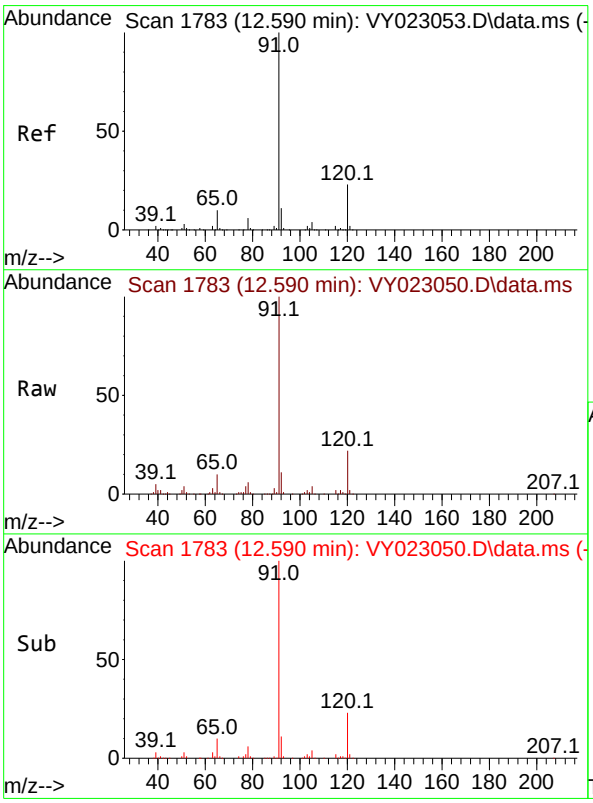
#77
Bromobenzene
Concen: 4.891 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

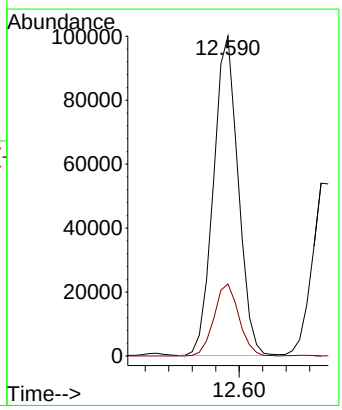


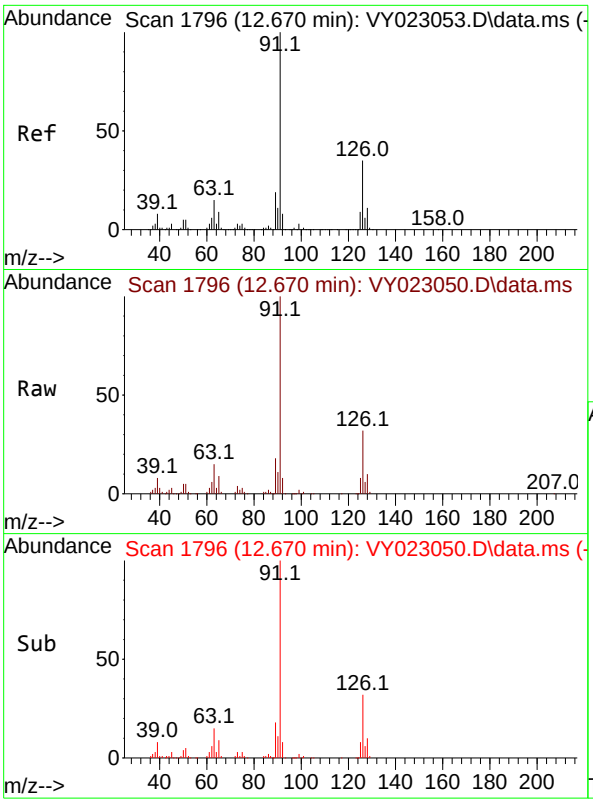


#78
n-propylbenzene
Concen: 4.822 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 146043

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.5	34.5



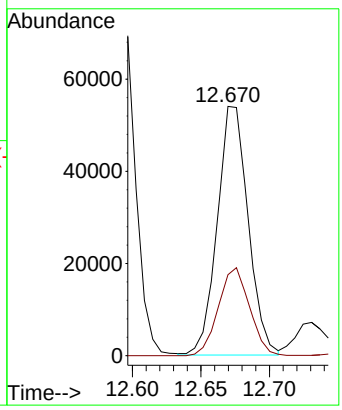


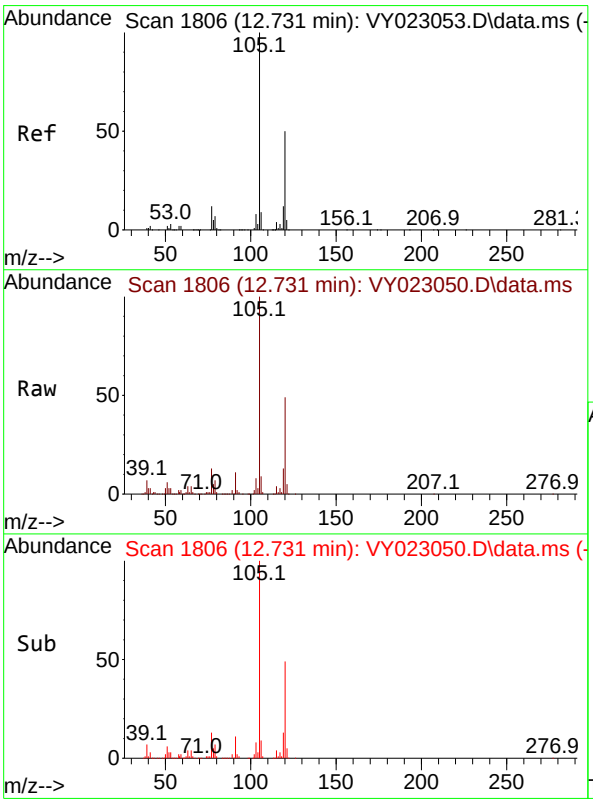
#79
2-Chlorotoluene
Concen: 4.880 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 84671

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.4	52.3

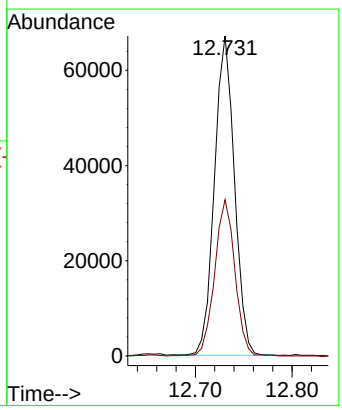


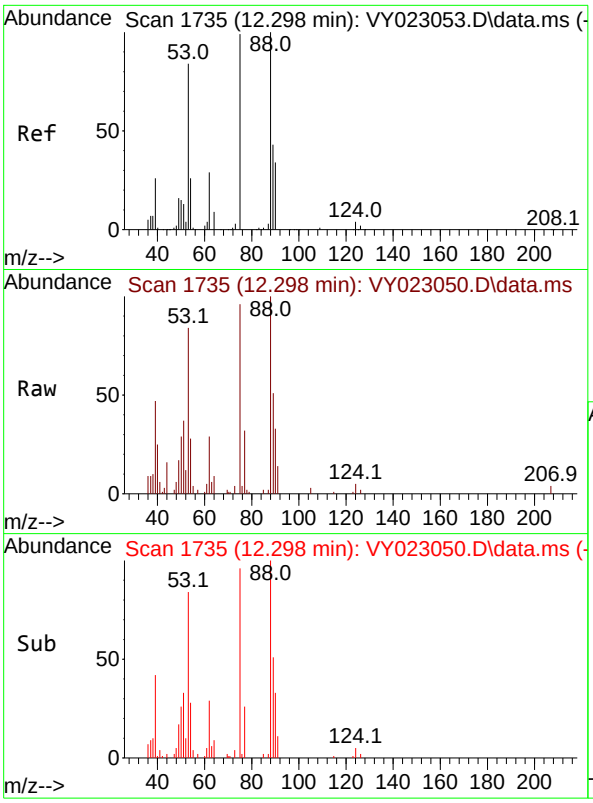


#80
1,3,5-Trimethylbenzene
Concen: 4.685 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 96308

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



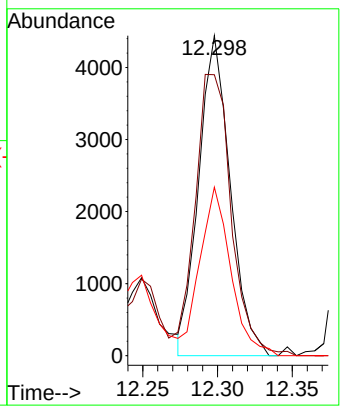


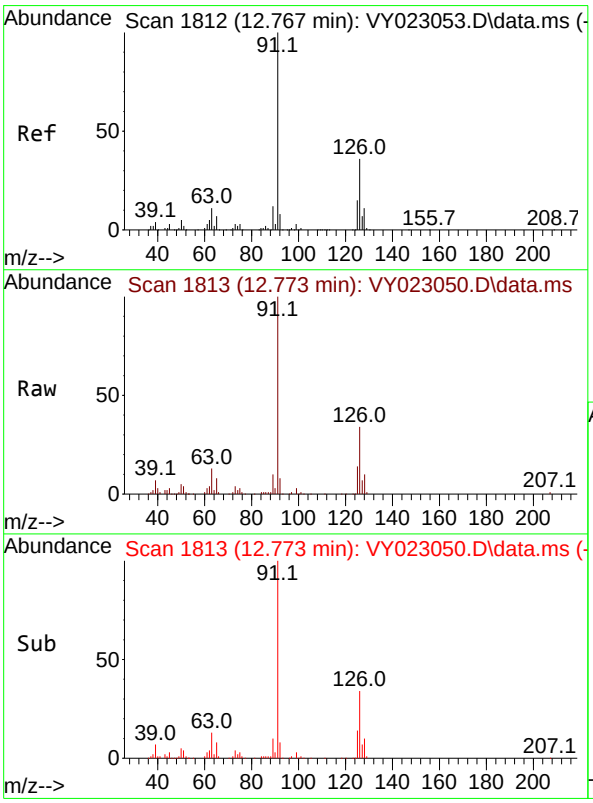
#81
trans-1,4-Dichloro-2-butene
Concen: 4.533 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

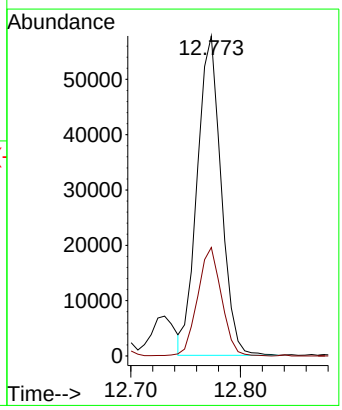


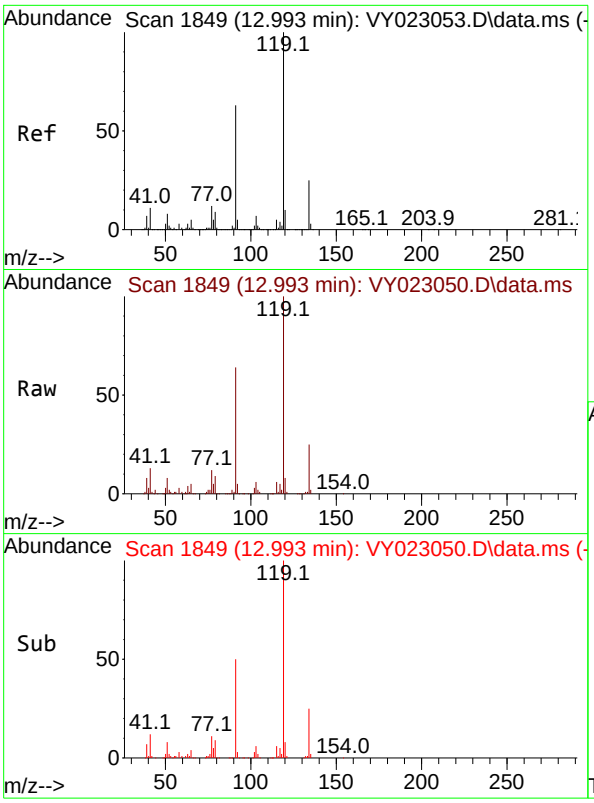


#82
4-Chlorotoluene
Concen: 4.859 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 87454

Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.3	52.0



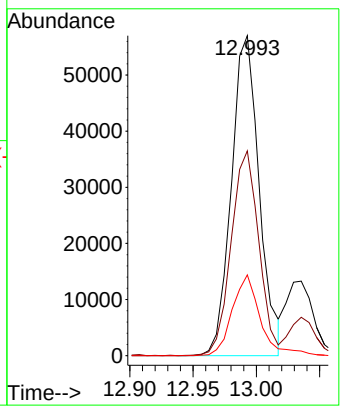


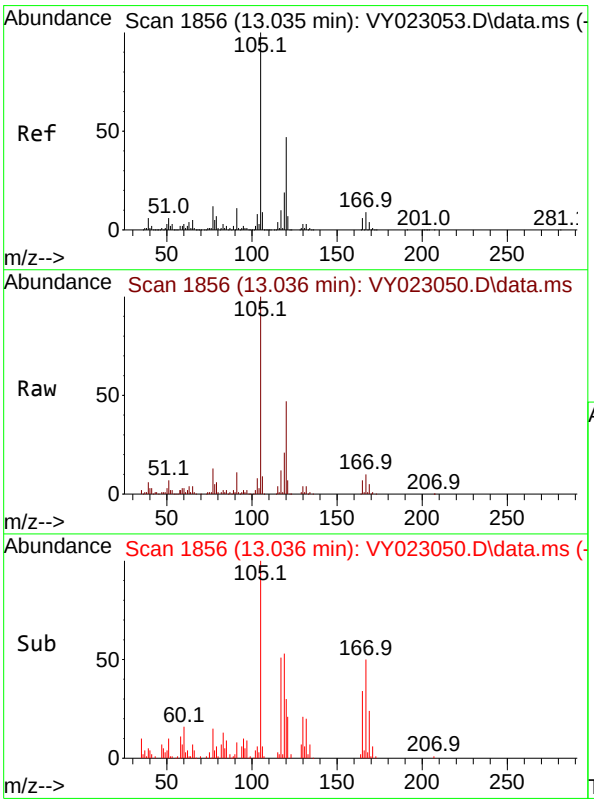
#83
tert-Butylbenzene
Concen: 4.712 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

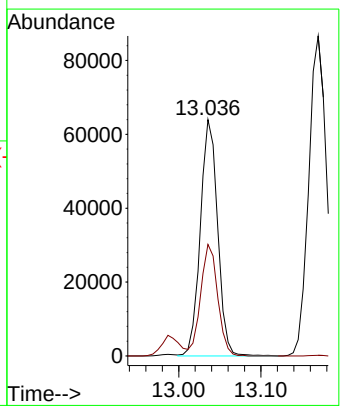


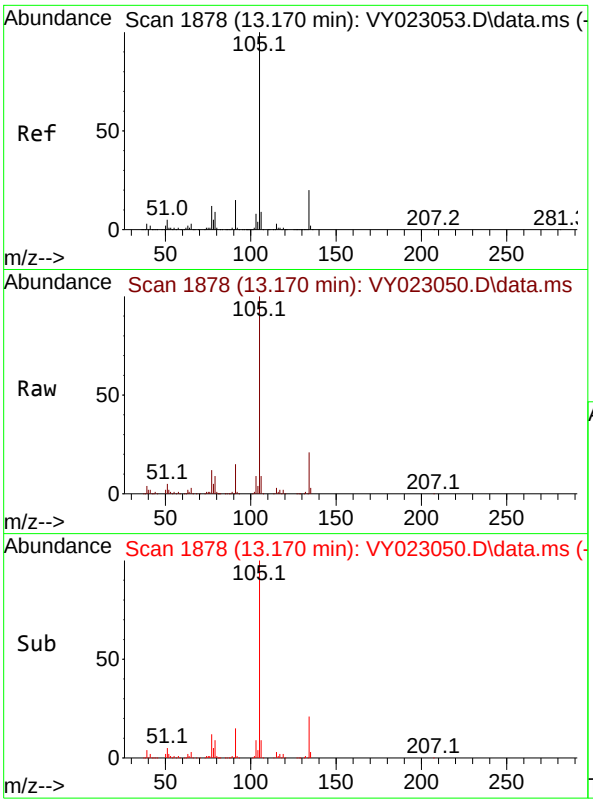


#84
1,2,4-Trimethylbenzene
Concen: 4.571 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 93551

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0



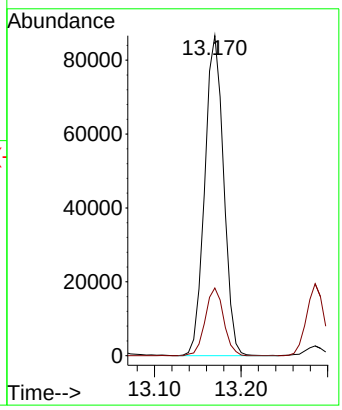


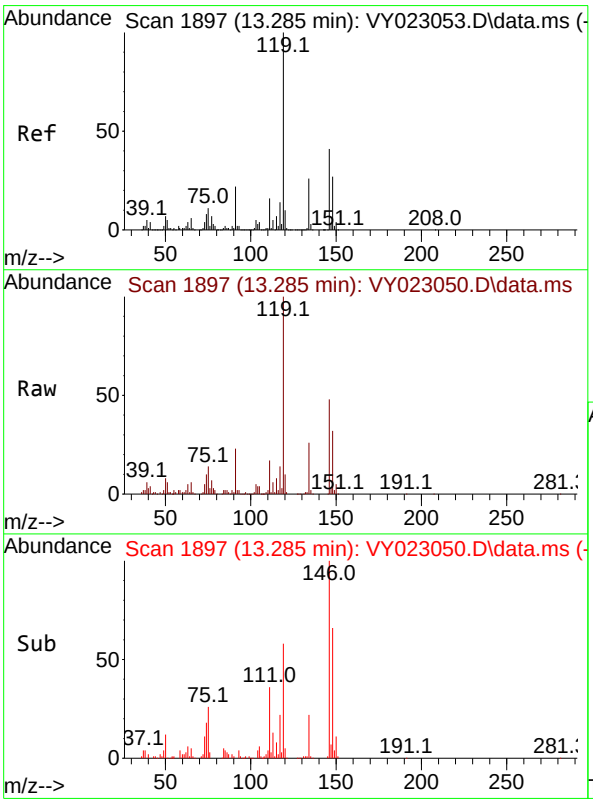
#85
sec-Butylbenzene
Concen: 4.806 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 131079

Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.2	30.4

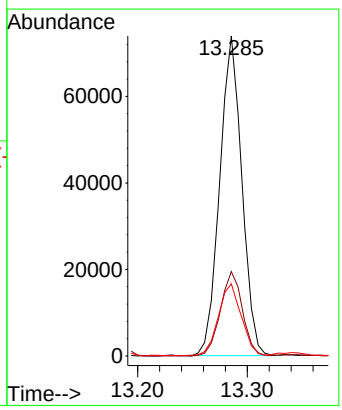


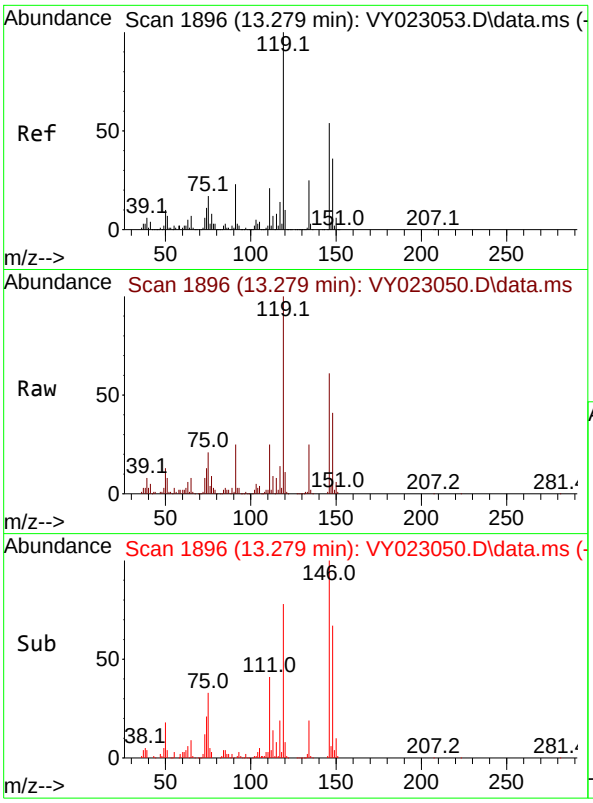


#86
p-Isopropyltoluene
Concen: 4.582 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



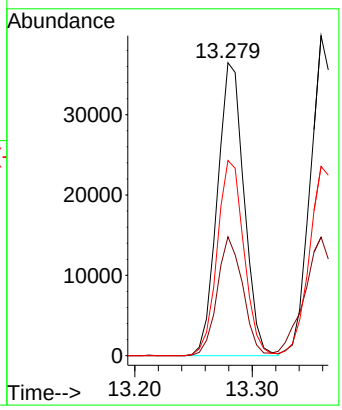


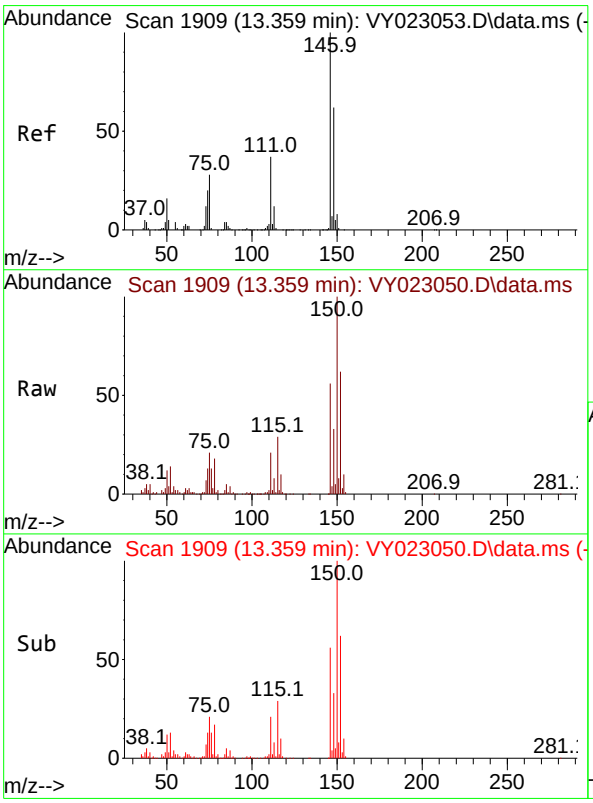
#87
1,3-Dichlorobenzene
Concen: 4.819 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

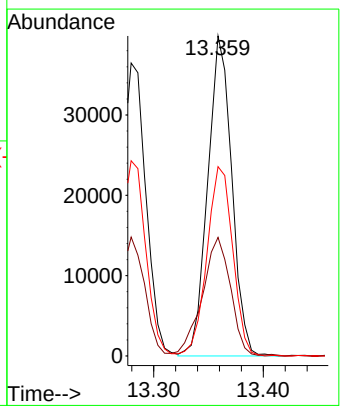


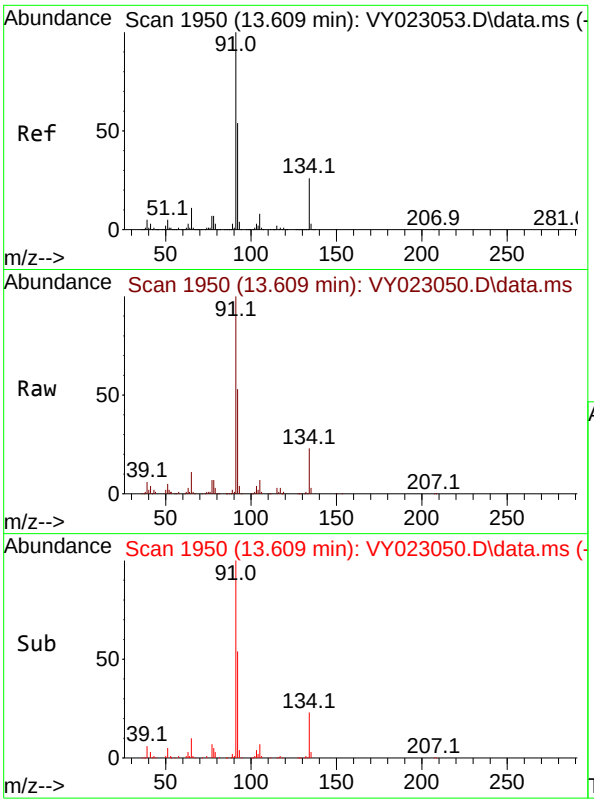


#88
1,4-Dichlorobenzene
Concen: 5.120 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



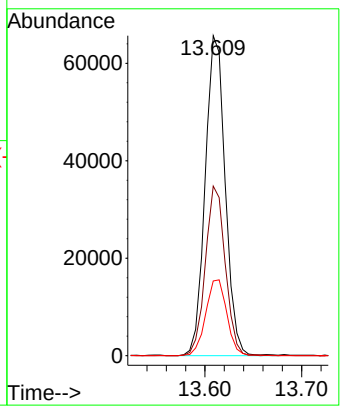


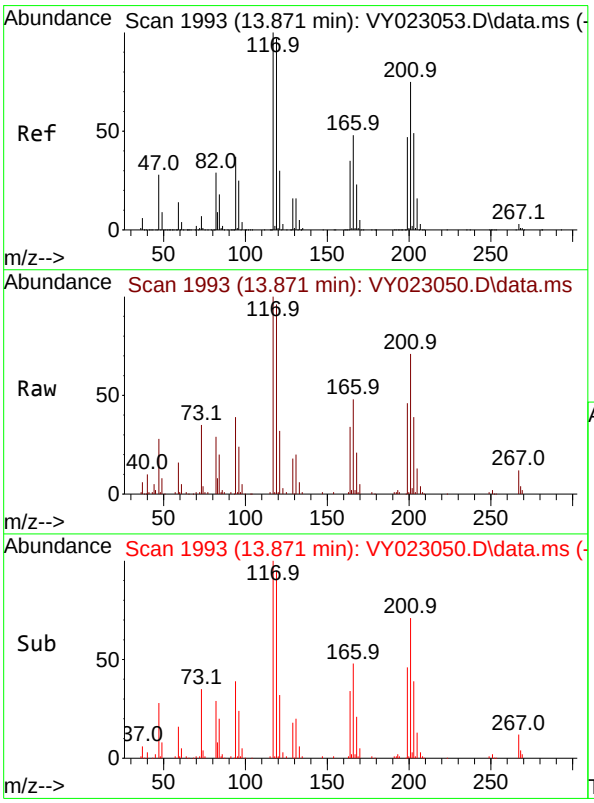
#89
n-Butylbenzene
Concen: 4.549 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

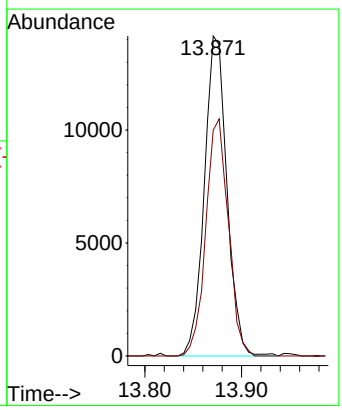


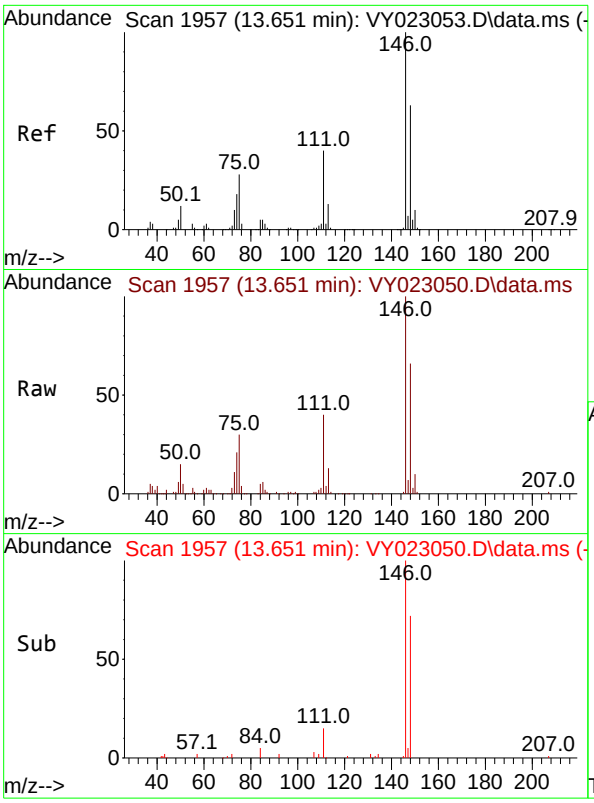


#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 22980

Ion	Ratio	Lower	Upper
117	100		
201	74.0	38.4	115.1



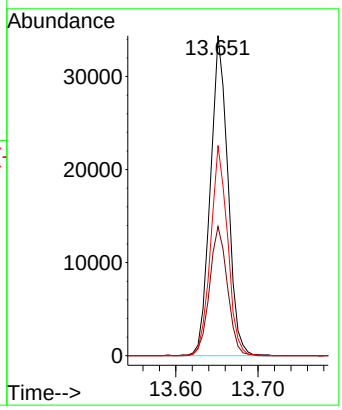


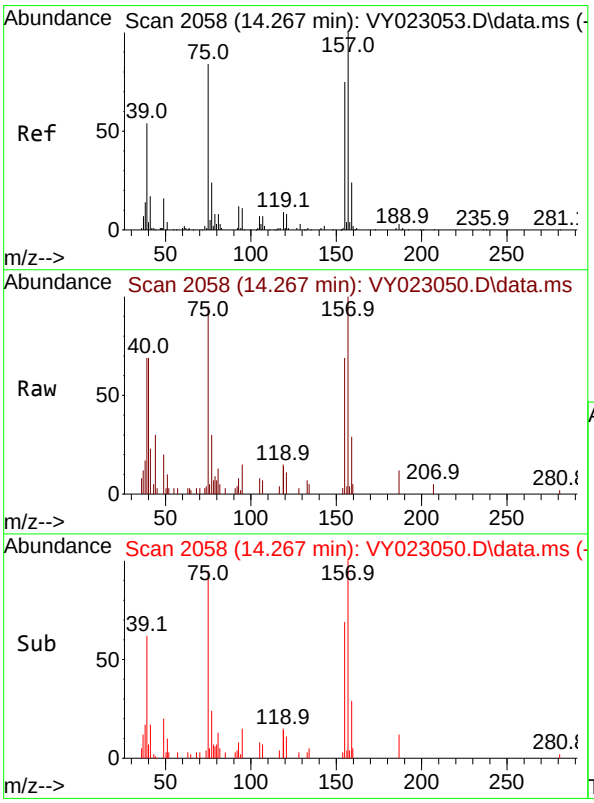
#91
1,2-Dichlorobenzene
Concen: 4.843 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

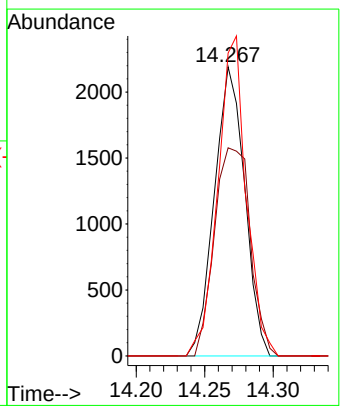


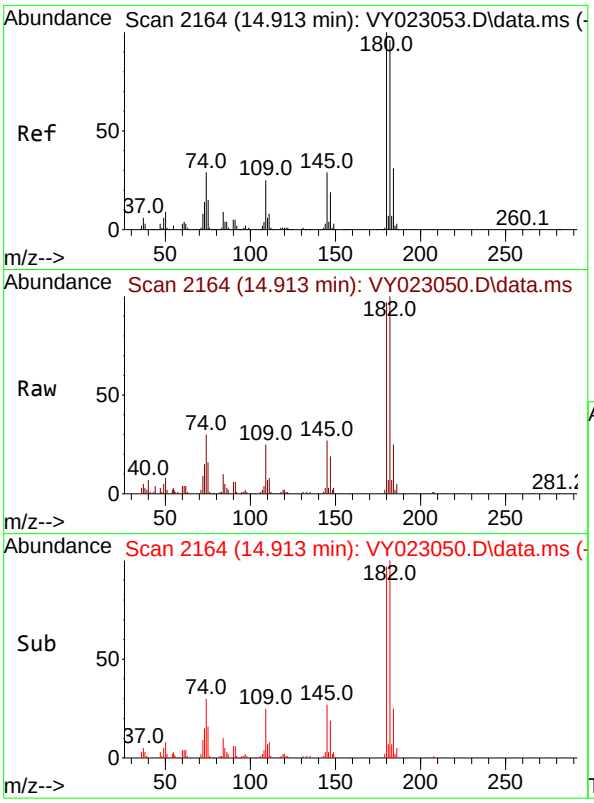


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



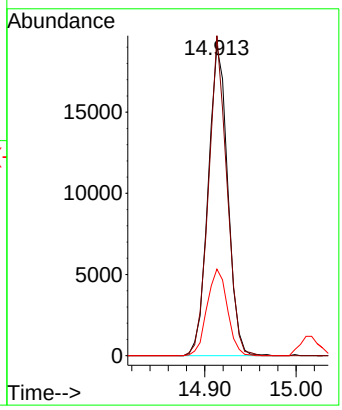


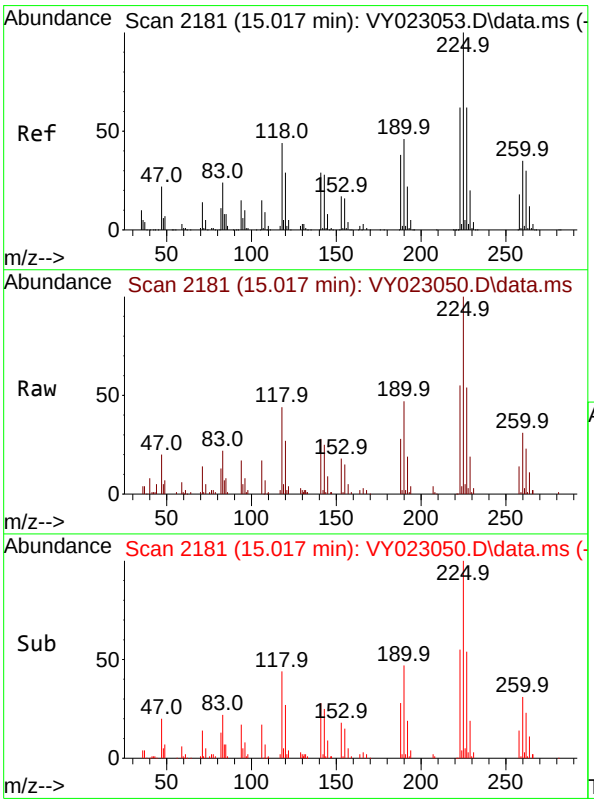
#93
1,2,4-Trichlorobenzene
Concen: 4.576 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

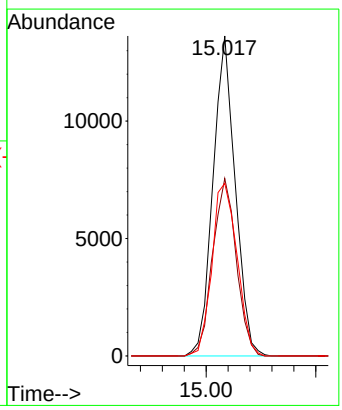


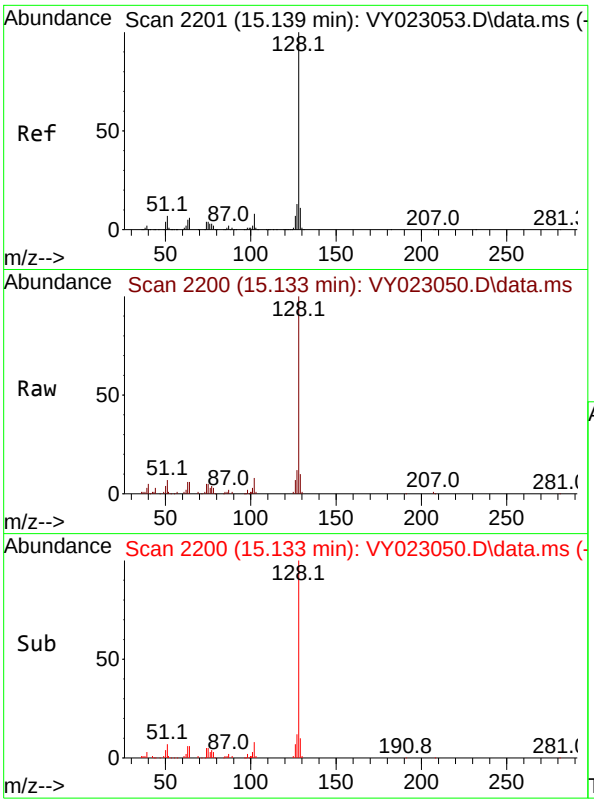


#94
Hexachlorobutadiene
Concen: 5.263 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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



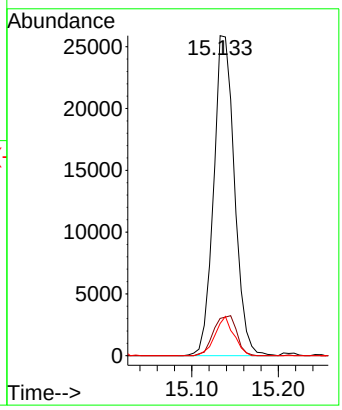


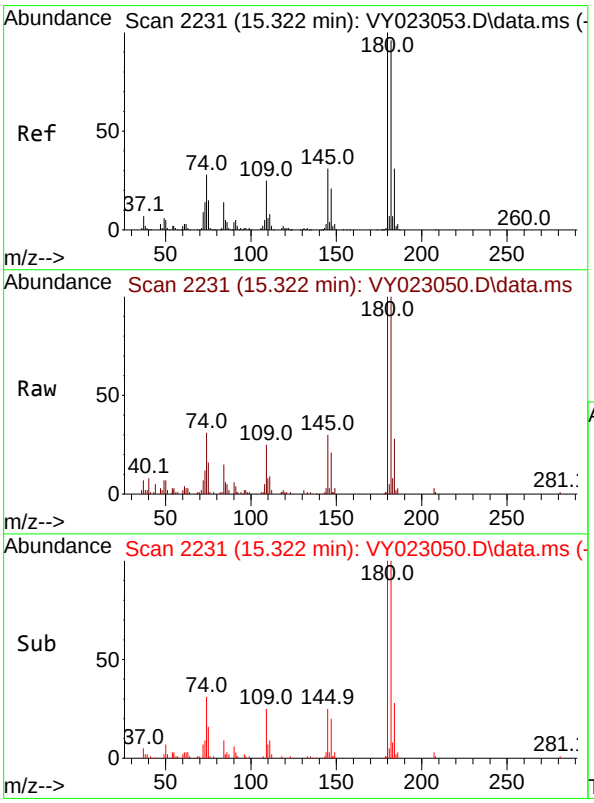
#95
Naphthalene
Concen: 4.100 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

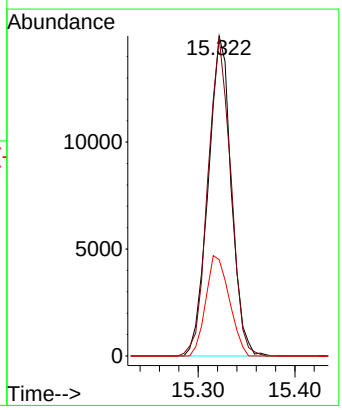




#96
1,2,3-Trichlorobenzene
Concen: 4.619 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

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

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)
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)

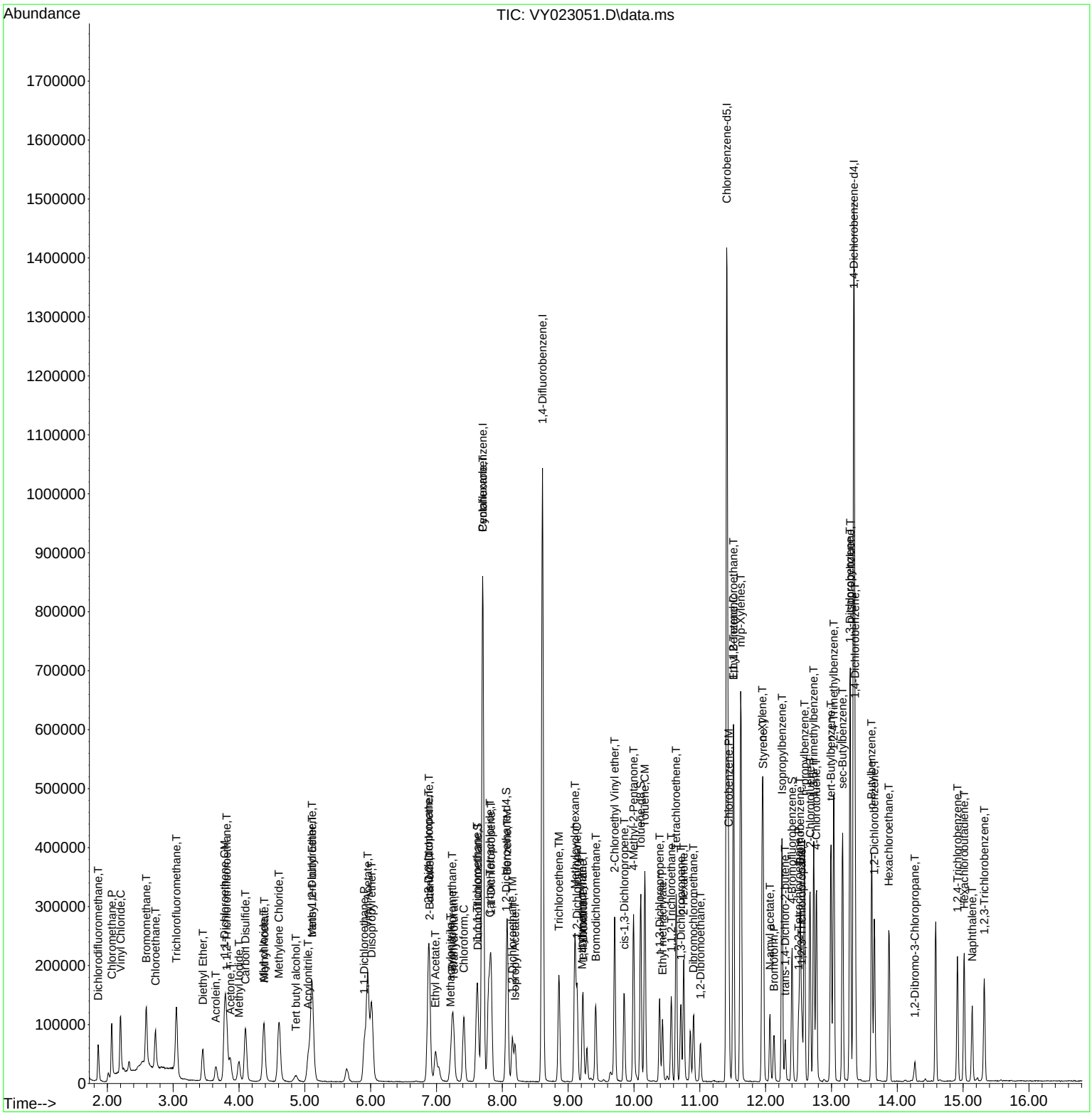
(#) = qualifier out of range (m) = manual integration (+) = signals summed

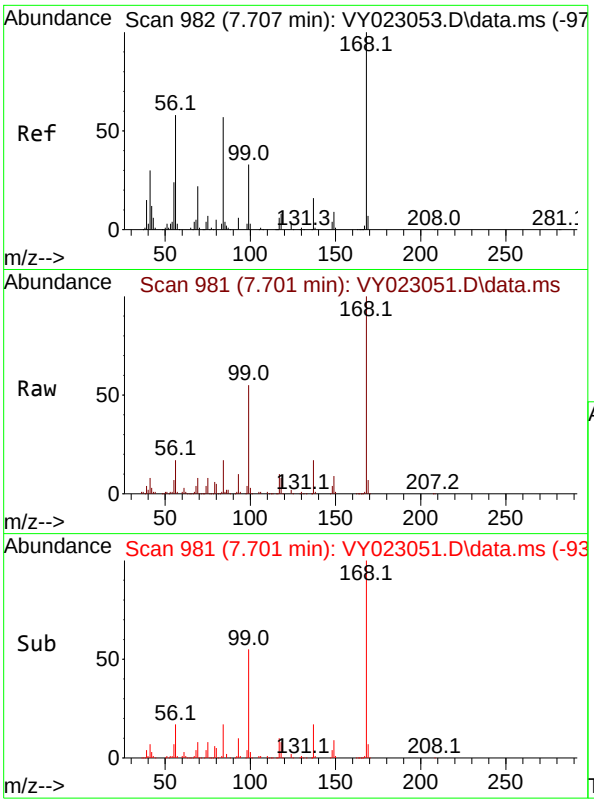
Quantitation Report (Not Reviewed)

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



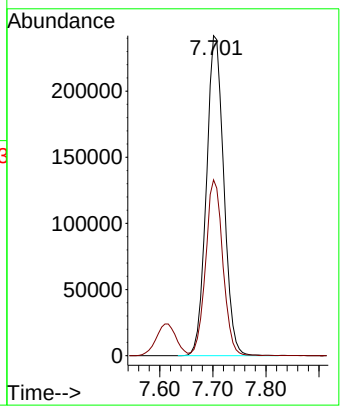


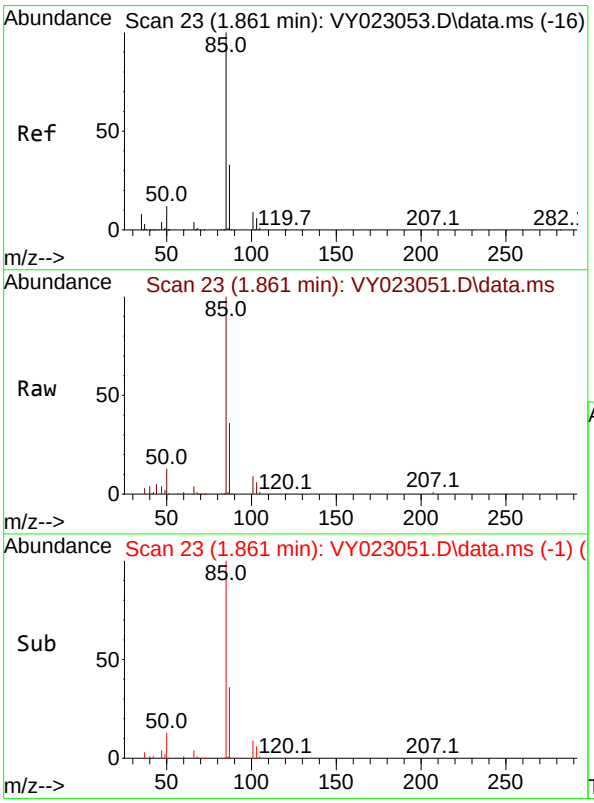
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 551522

Ion	Ratio	Lower	Upper
168	100		
99	54.9	42.8	64.2

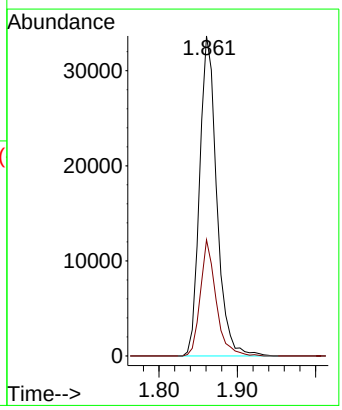


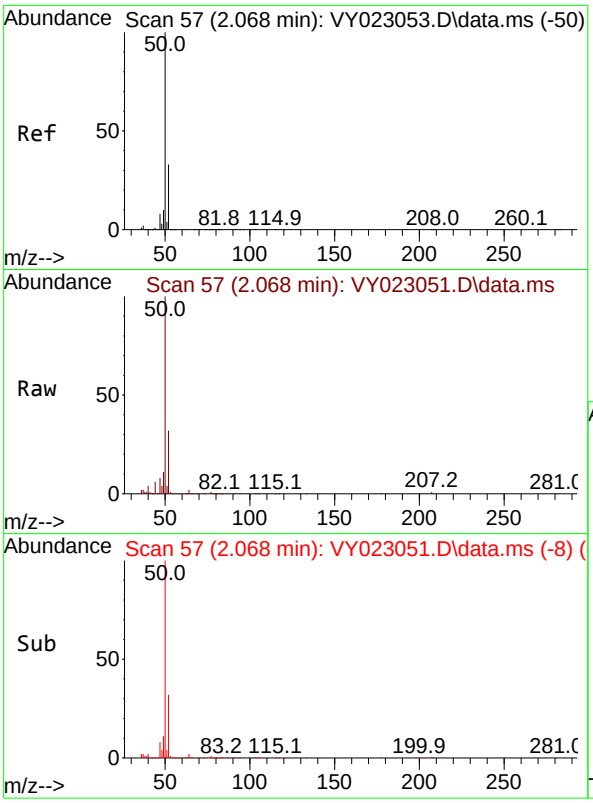


#2
Dichlorodifluoromethane
Concen: 11.334 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 85 Resp: 51022

Ion	Ratio	Lower	Upper
85	100		
87	36.3	16.6	49.8



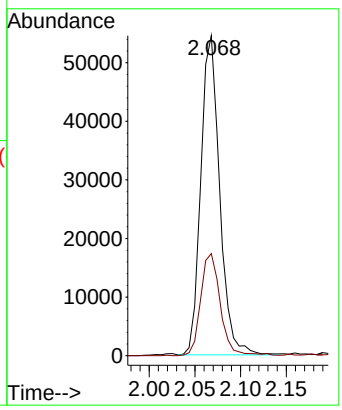


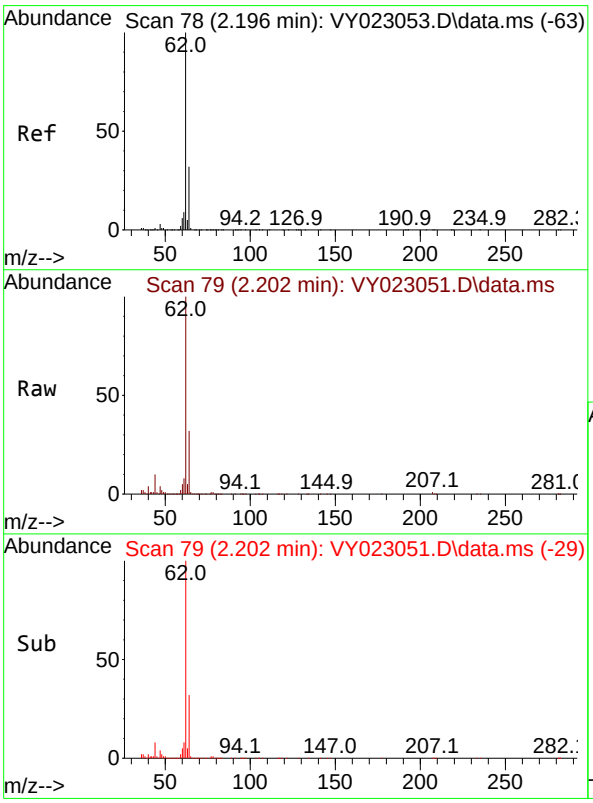
#3
Chloromethane
Concen: 10.695 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 77982

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1

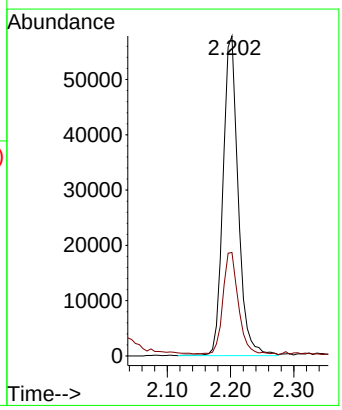


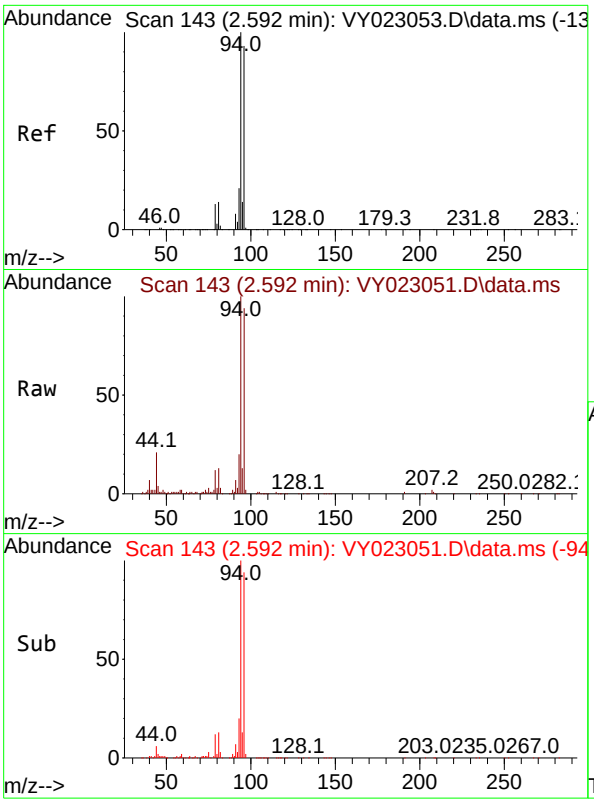


#4
Vinyl Chloride
Concen: 10.649 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 95983

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.4	38.0



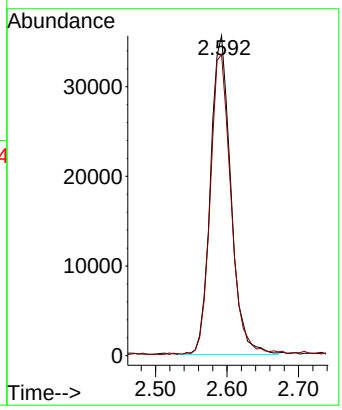


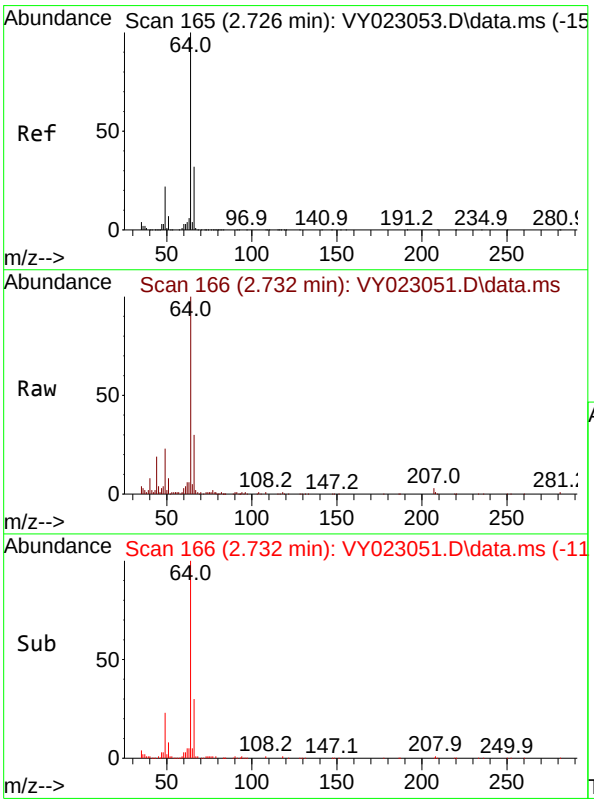
#5
Bromomethane
Concen: 10.461 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 70415

Ion	Ratio	Lower	Upper
94	100		
96	93.8	74.6	112.0

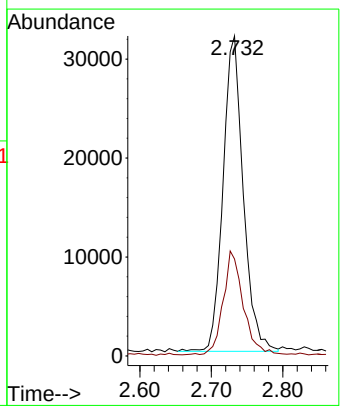


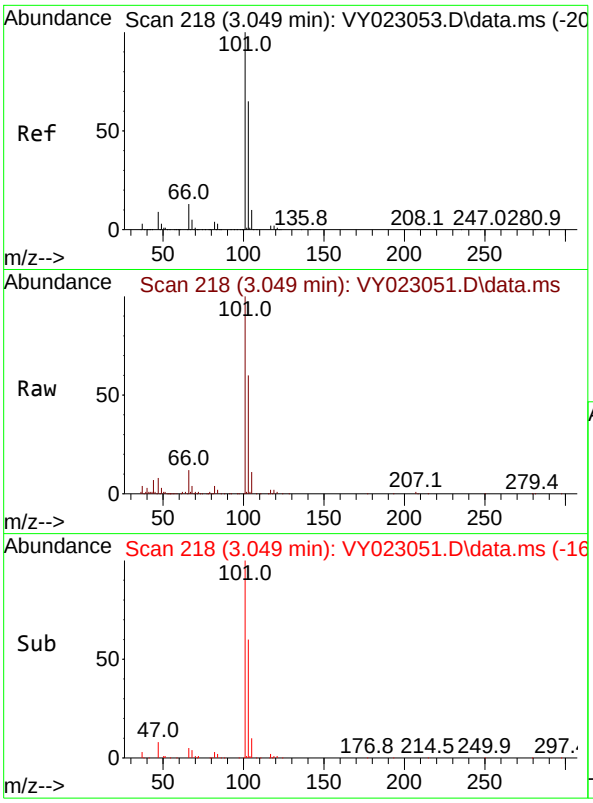


#6
Chloroethane
Concen: 10.432 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 64 Resp: 62514

Ion	Ratio	Lower	Upper
64	100		
66	30.4	25.8	38.6



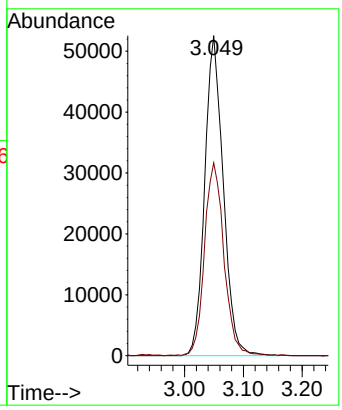


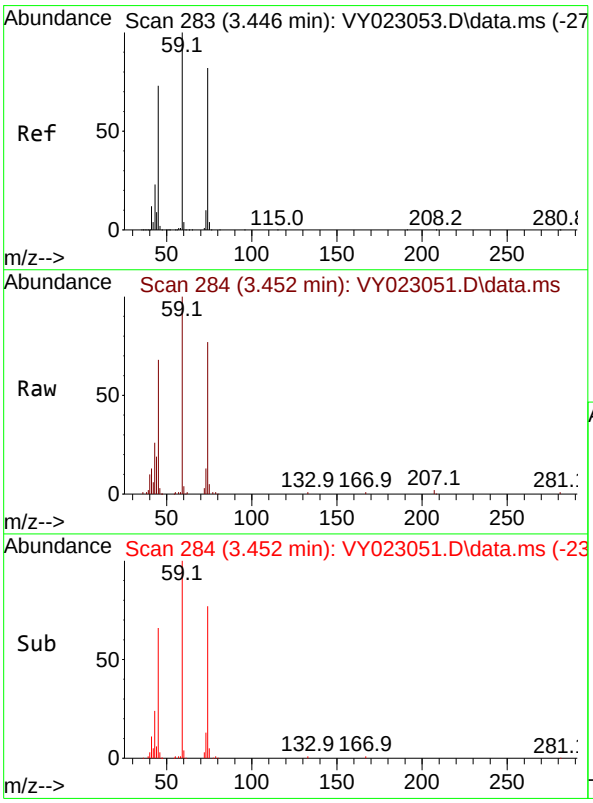
#7
Trichlorofluoromethane
Concen: 10.507 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 115150

Ion	Ratio	Lower	Upper
101	100		
103	60.1	51.9	77.9

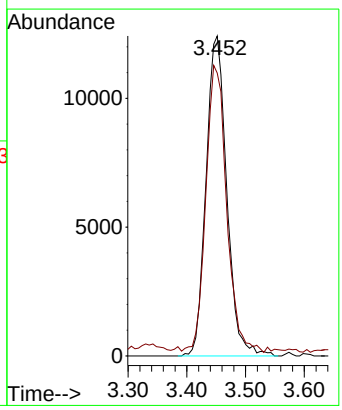


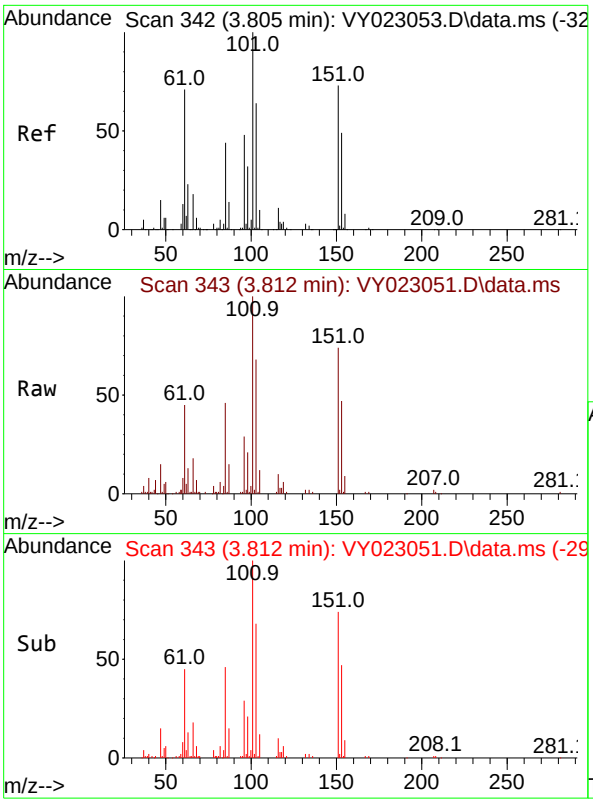


#8
Diethyl Ether
Concen: 10.481 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 74 Resp: 30390

Ion	Ratio	Lower	Upper
74	100		
45	90.2	44.4	133.2



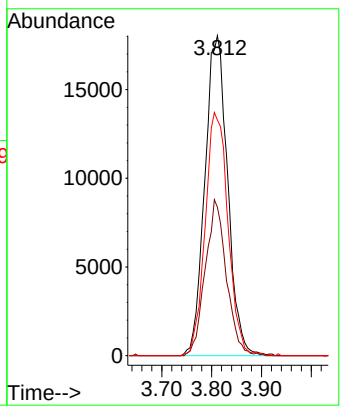


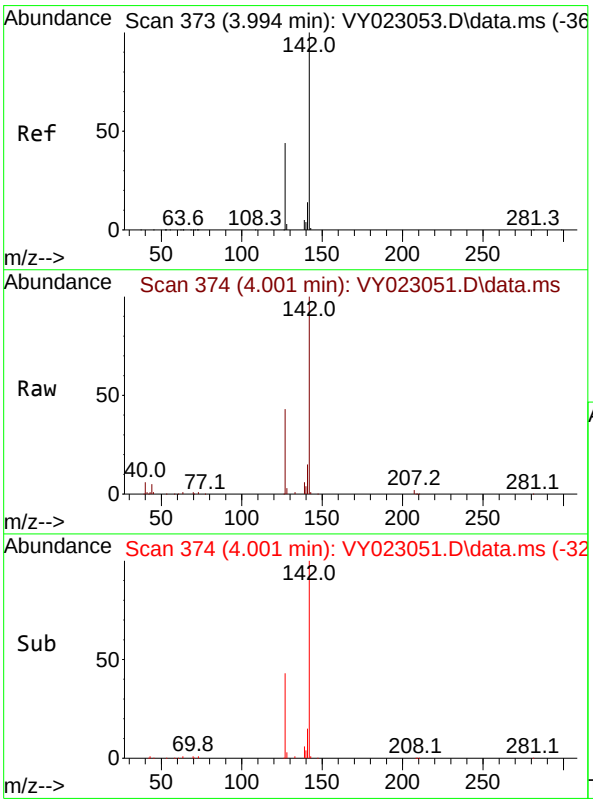
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.581 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

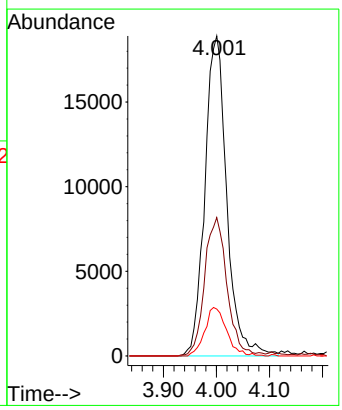


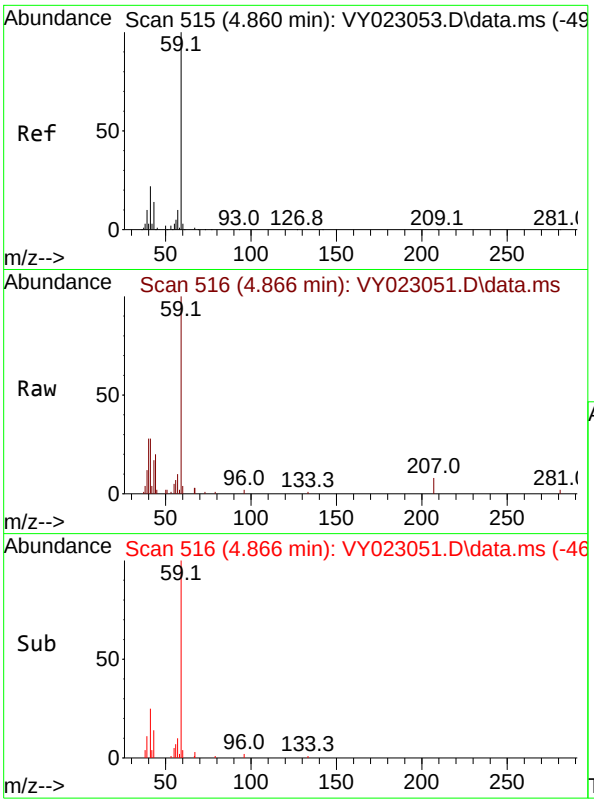


#10
Methyl Iodide
Concen: 9.287 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



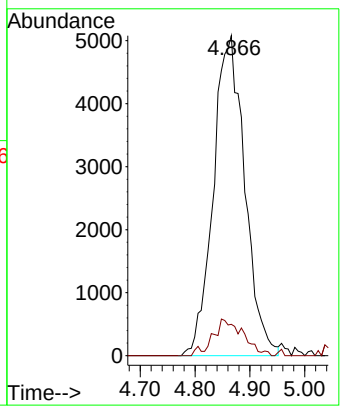


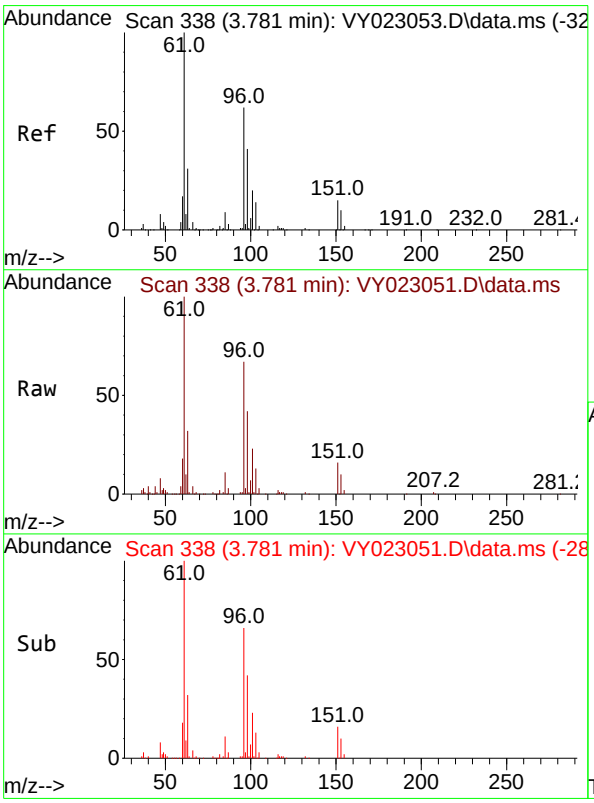
#11
Tert butyl alcohol
Concen: 56.119 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 20212

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.6	13.0

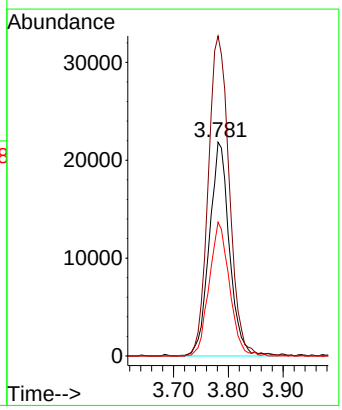


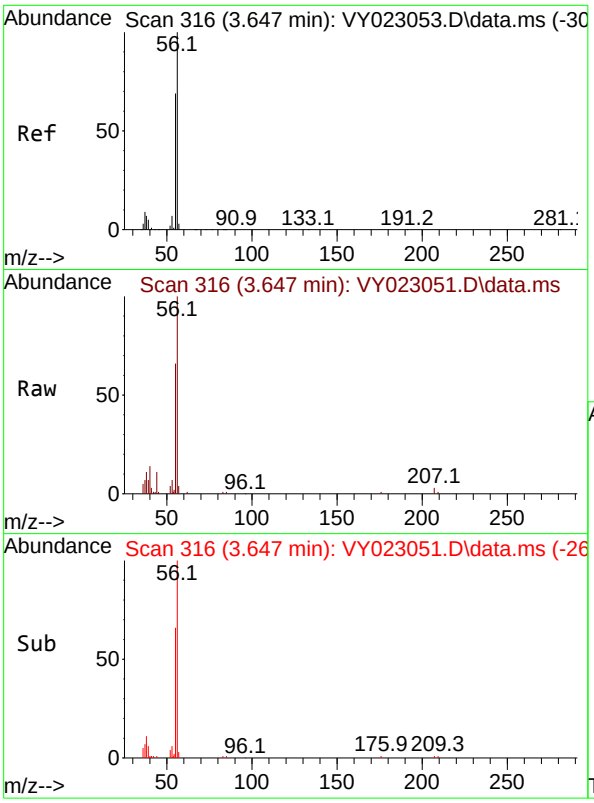


#12
1,1-Dichloroethene
Concen: 10.475 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



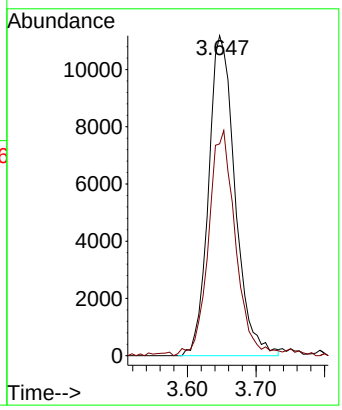


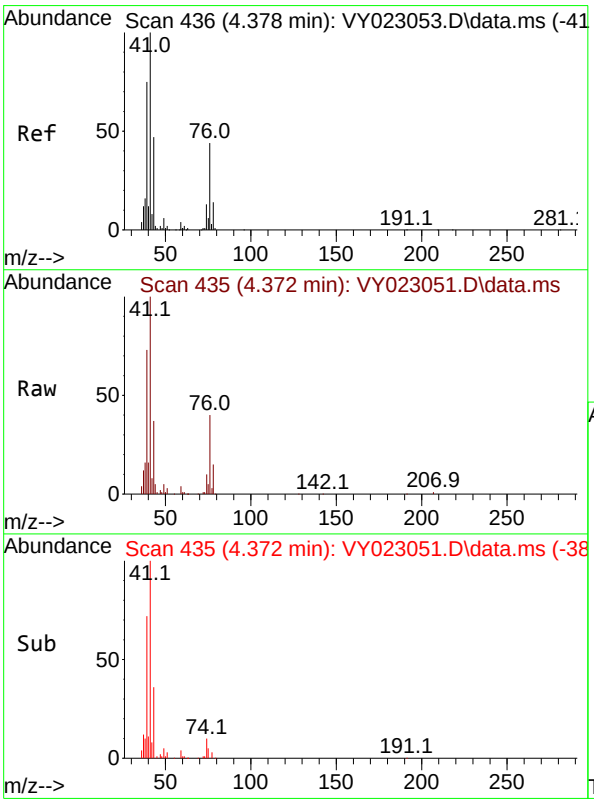
#13
Acrolein
Concen: 57.030 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 30081

Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.2	82.8

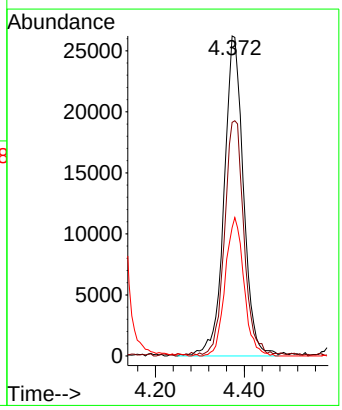


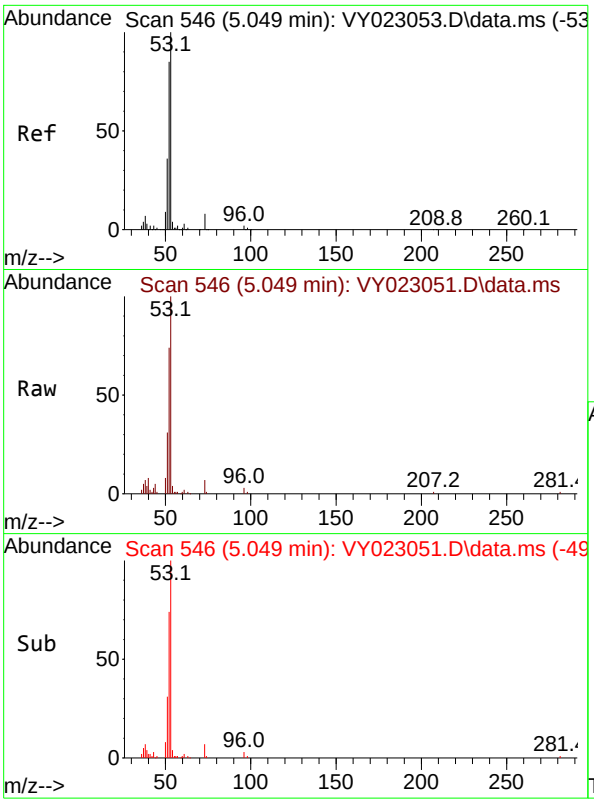


#14
Allyl chloride
Concen: 10.121 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



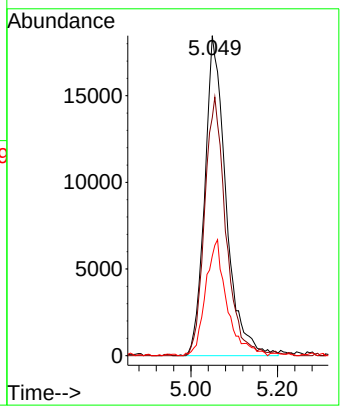


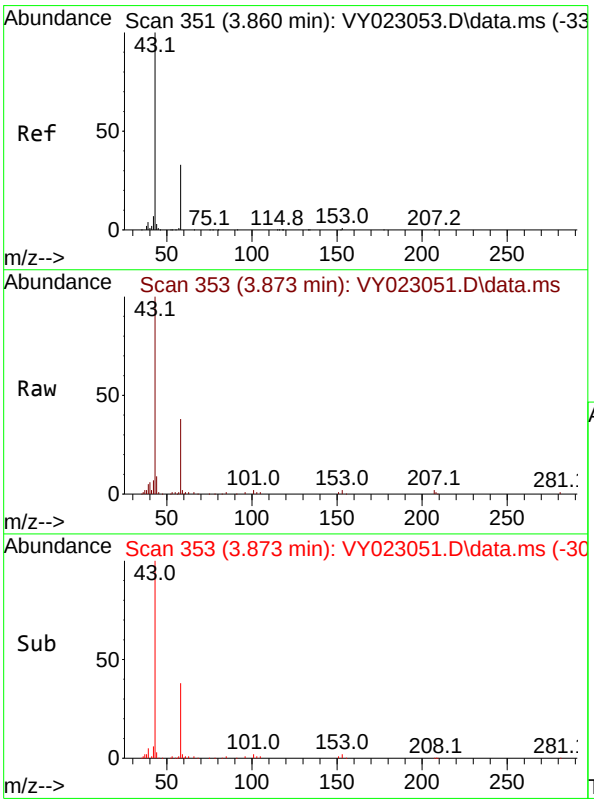
#15
Acrylonitrile
Concen: 53.349 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

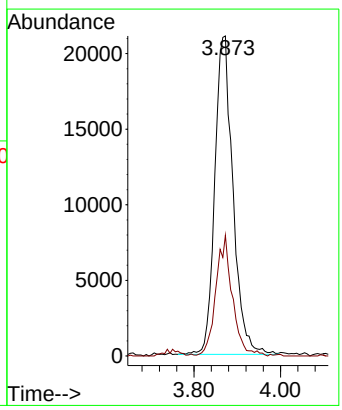


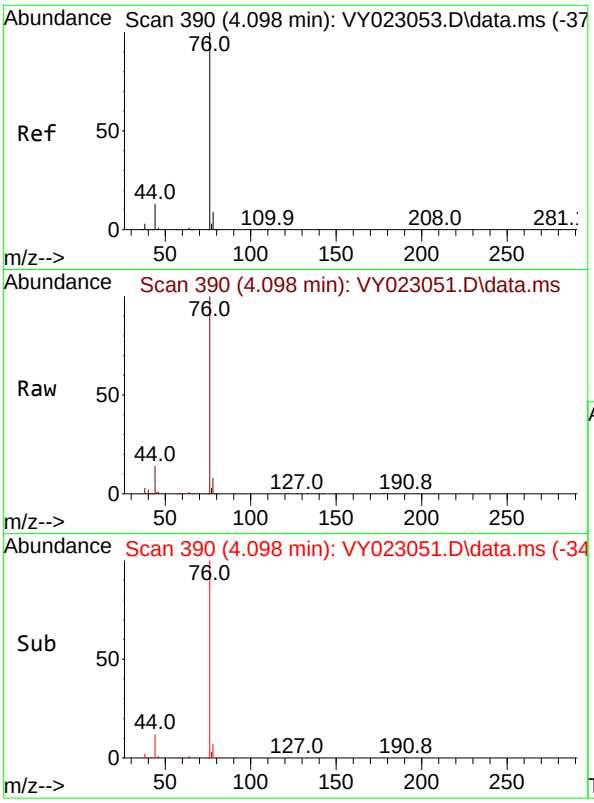


#16
Acetone
Concen: 53.821 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 61290

Ion	Ratio	Lower	Upper
43	100		
58	37.4	27.1	40.7



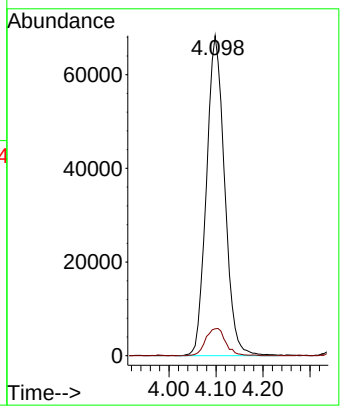


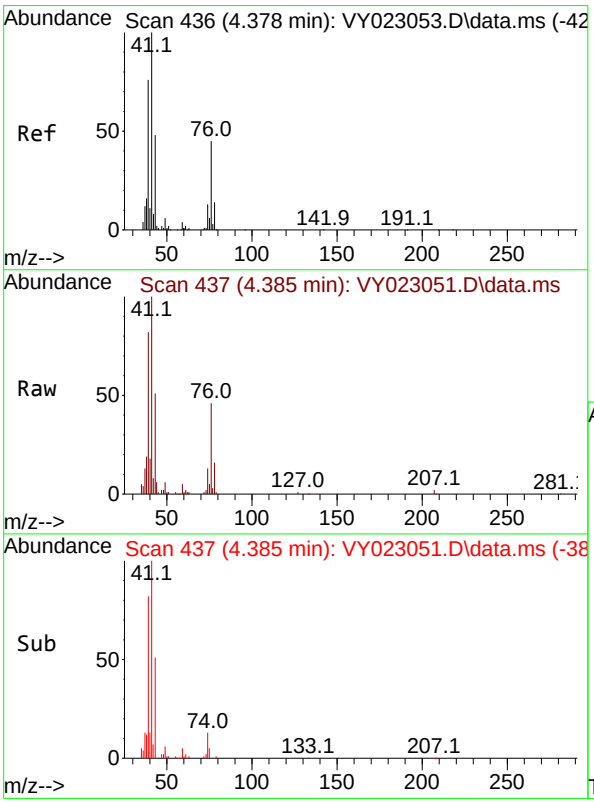
#17
Carbon Disulfide
Concen: 10.583 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 183399

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.4	11.2

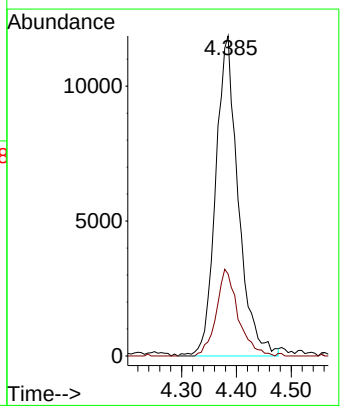


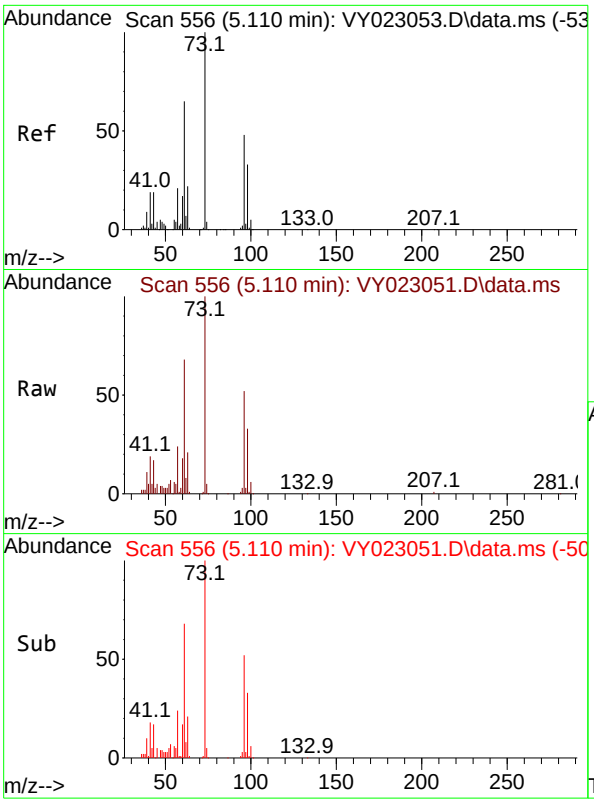


#18
Methyl Acetate
Concen: 10.032 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 33996

Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.2	31.8



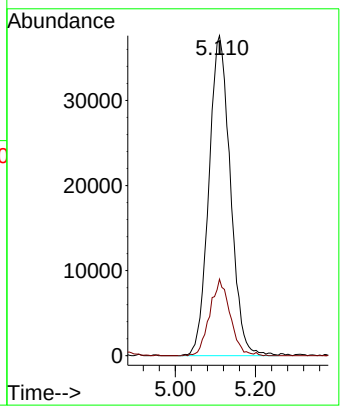


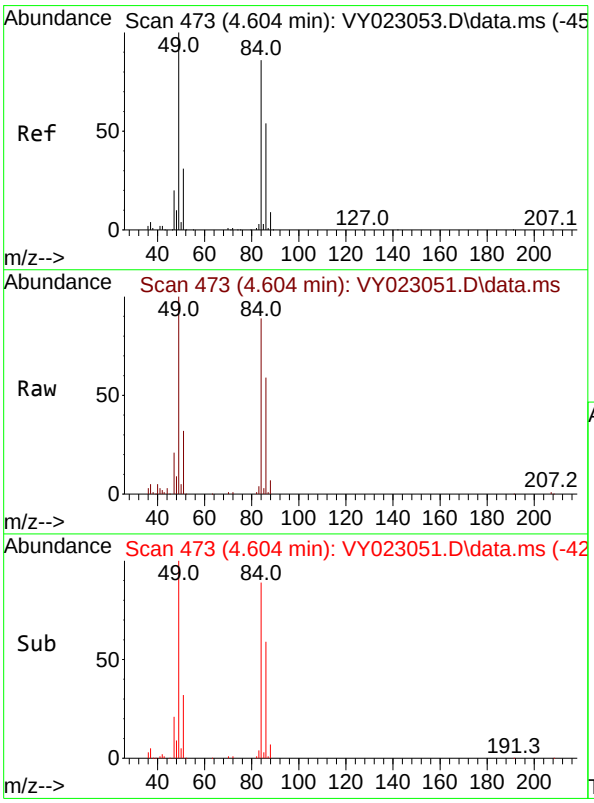
#19
Methyl tert-butyl Ether
Concen: 10.153 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 139820

Ion	Ratio	Lower	Upper
73	100		
57	23.9	17.1	25.7

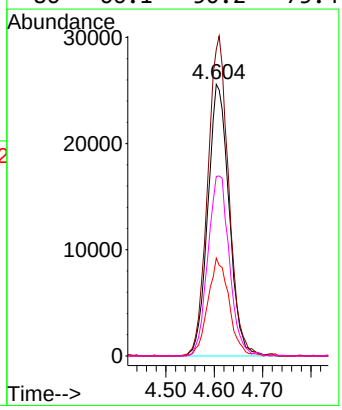


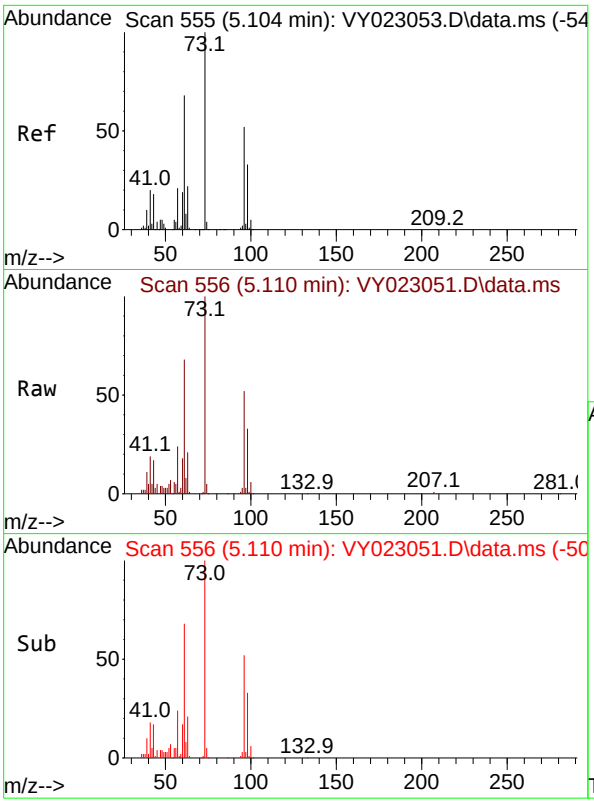


#20
Methylene Chloride
Concen: 11.095 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



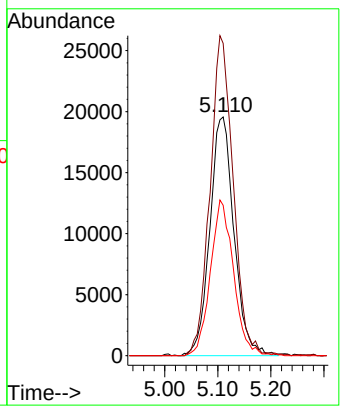


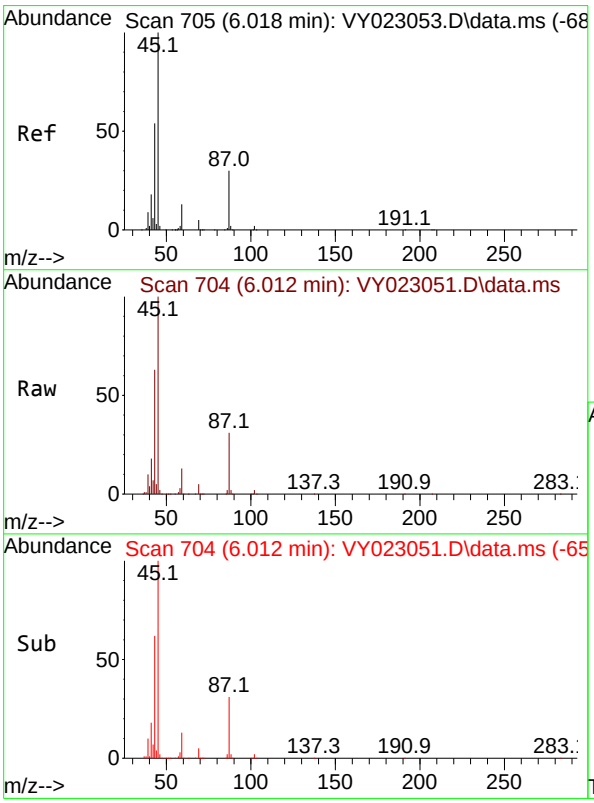
#21
trans-1,2-Dichloroethene
Concen: 10.352 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

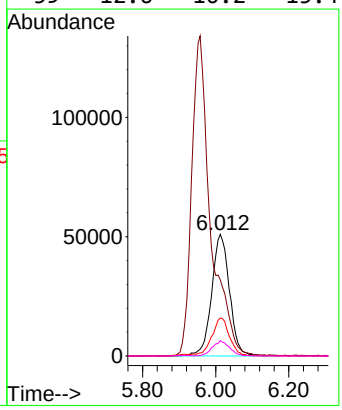


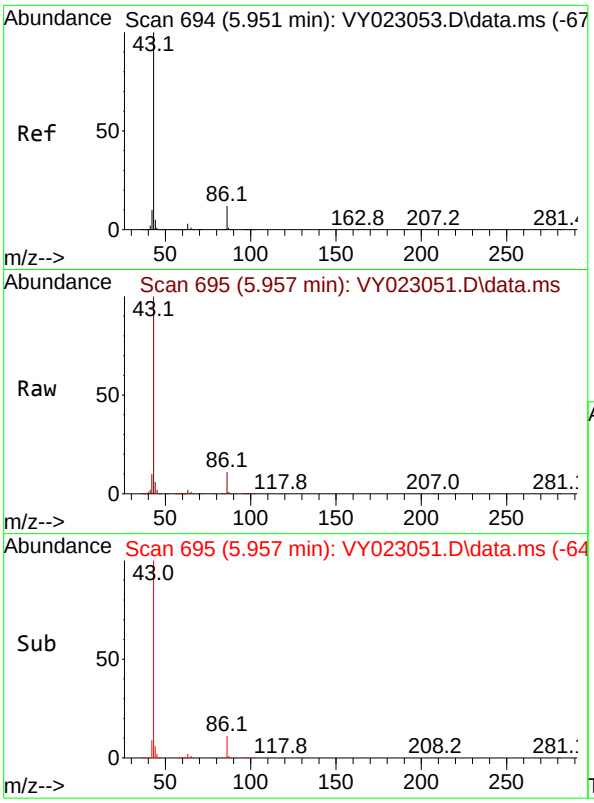


#22
Diisopropyl ether
Concen: 10.157 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



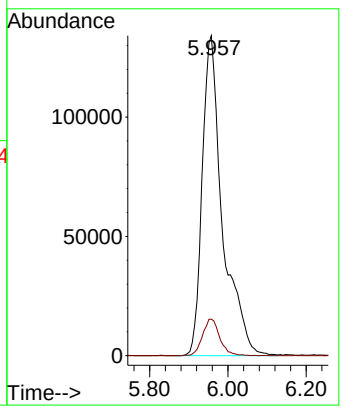


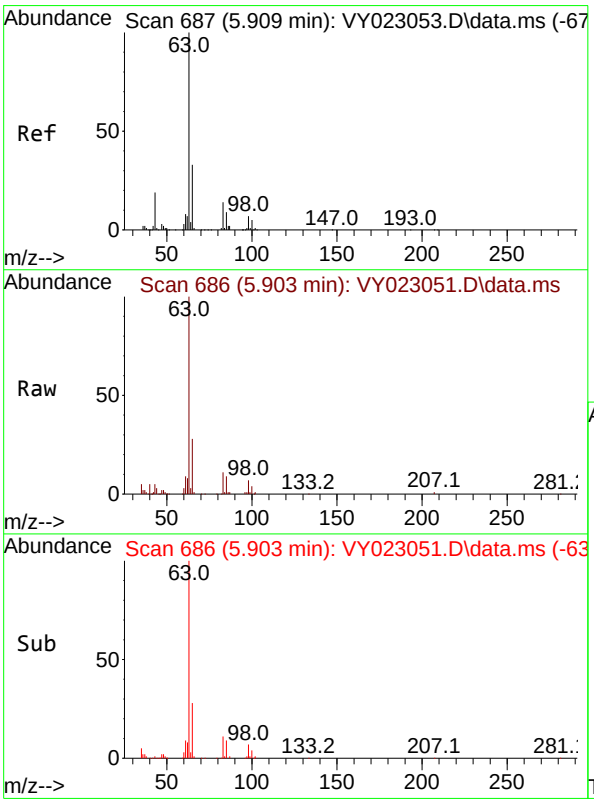
#23
Vinyl Acetate
Concen: 51.372 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 482714

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.6	14.4

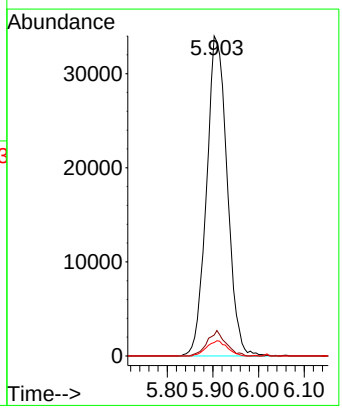


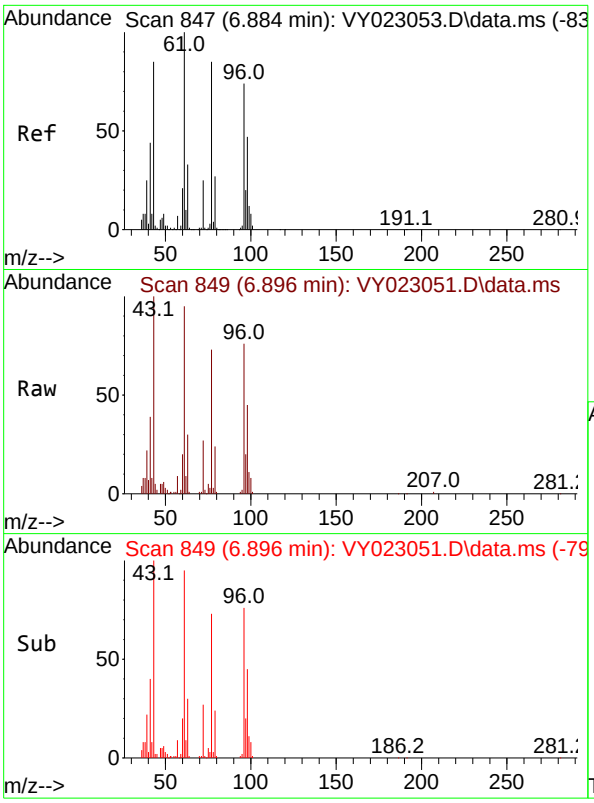


#24
1,1-Dichloroethane
Concen: 10.282 ug/l
RT: 5.903 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



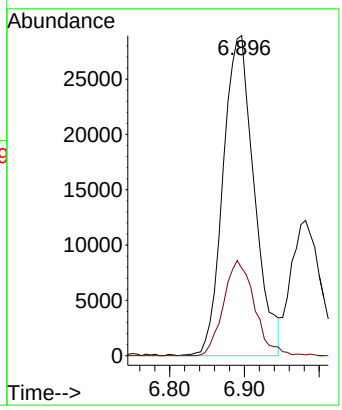


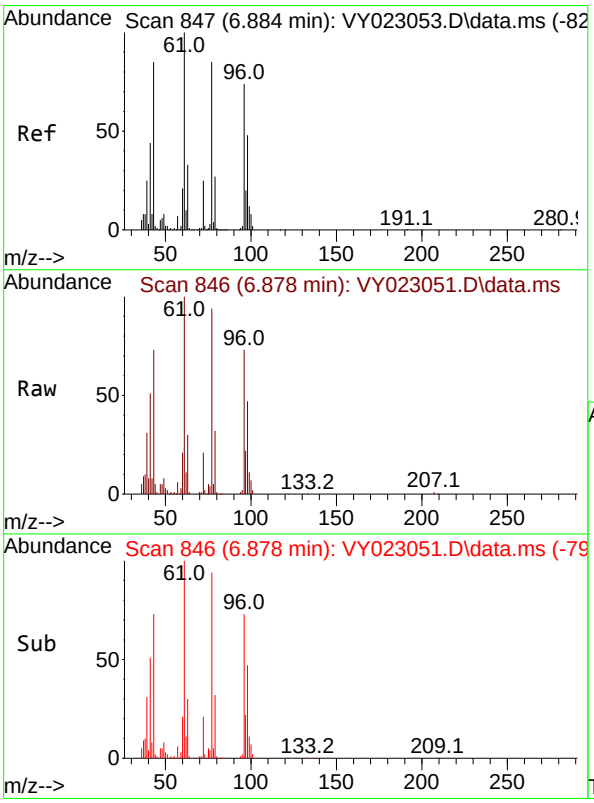
#25
2-Butanone
Concen: 54.187 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 83923

Ion	Ratio	Lower	Upper
43	100		
72	27.3	23.5	35.3

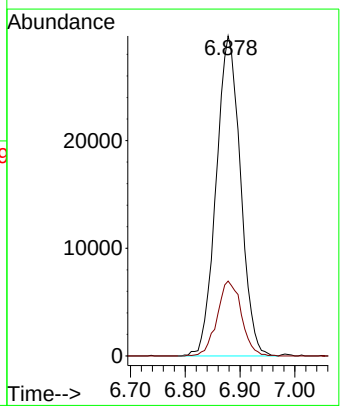


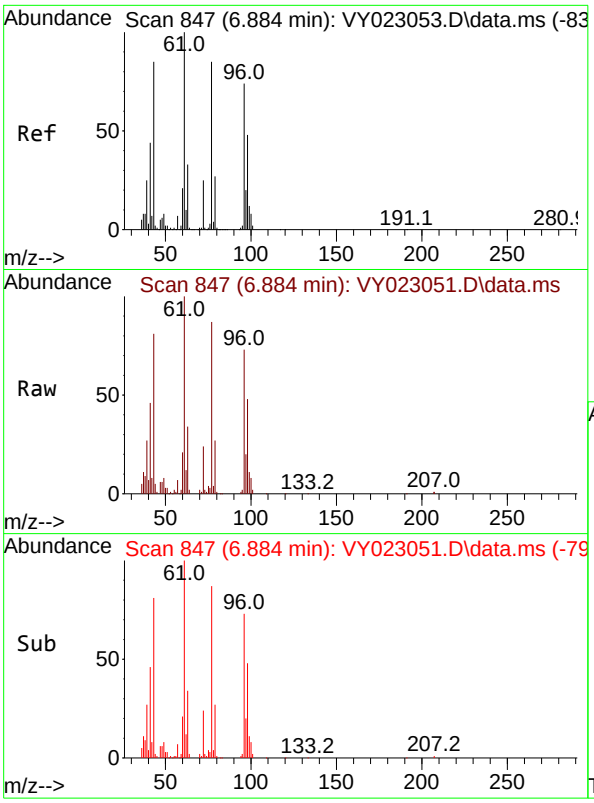


#26
2,2-Dichloropropane
Concen: 10.215 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 77 Resp: 91579

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8



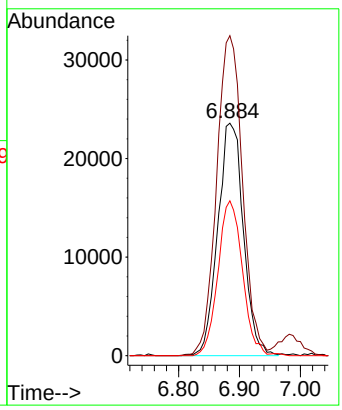


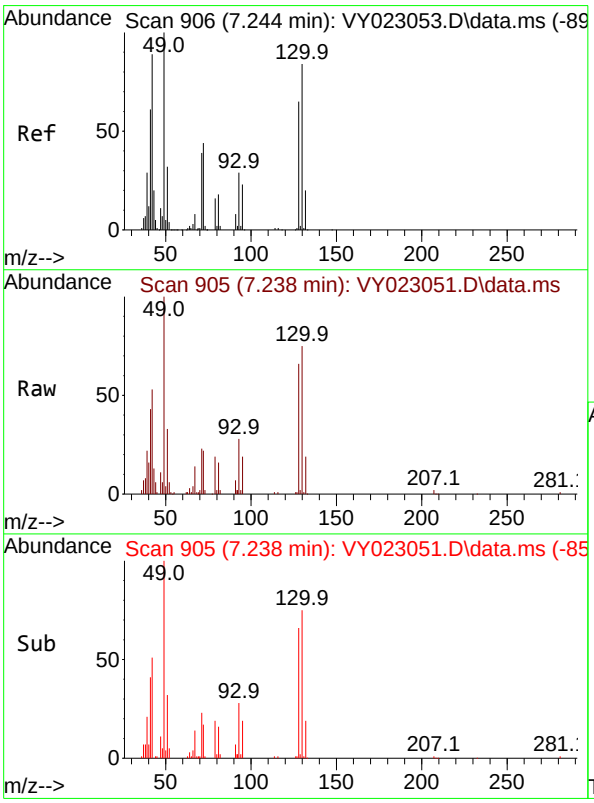
#27
cis-1,2-Dichloroethene
Concen: 9.970 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

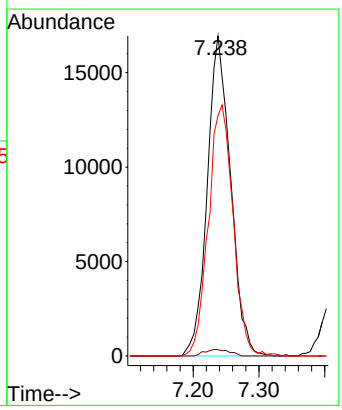


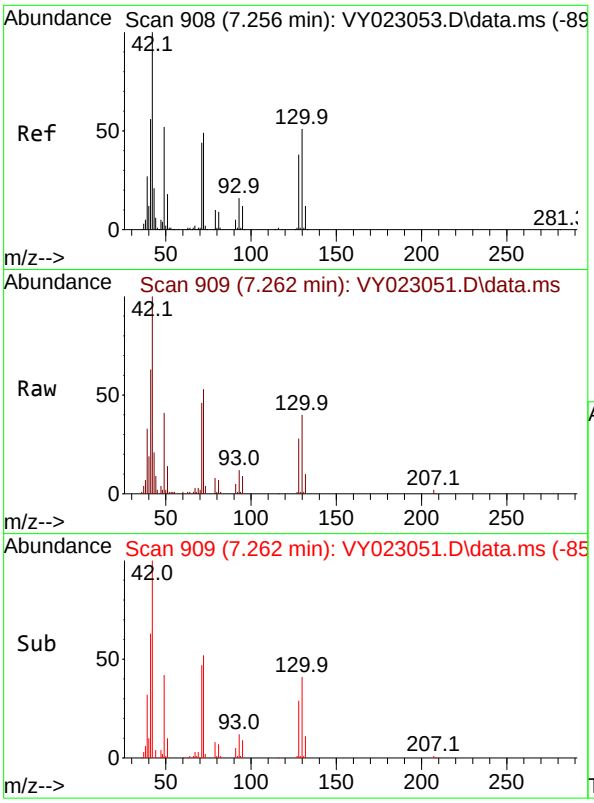


#28
Bromochloromethane
Concen: 10.146 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



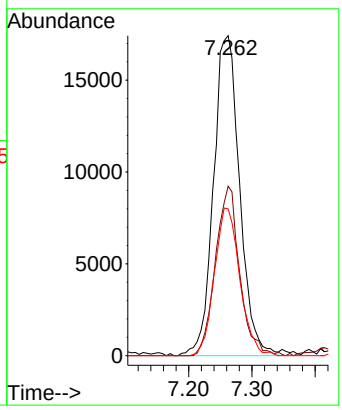


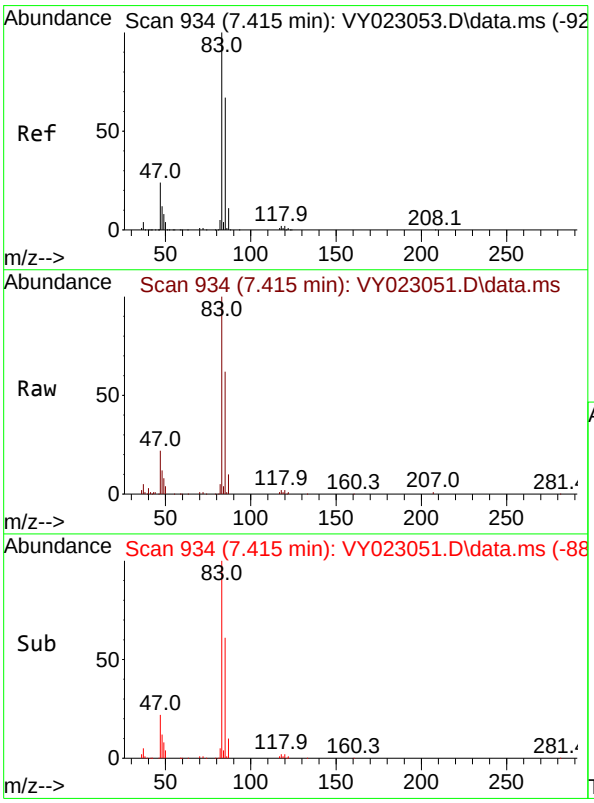
#29
Tetrahydrofuran
Concen: 52.005 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

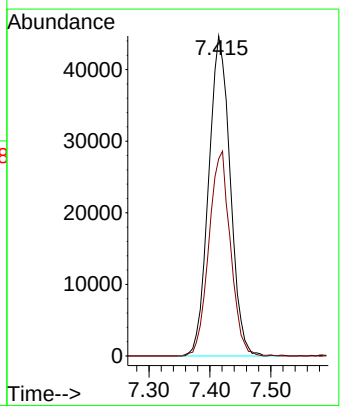


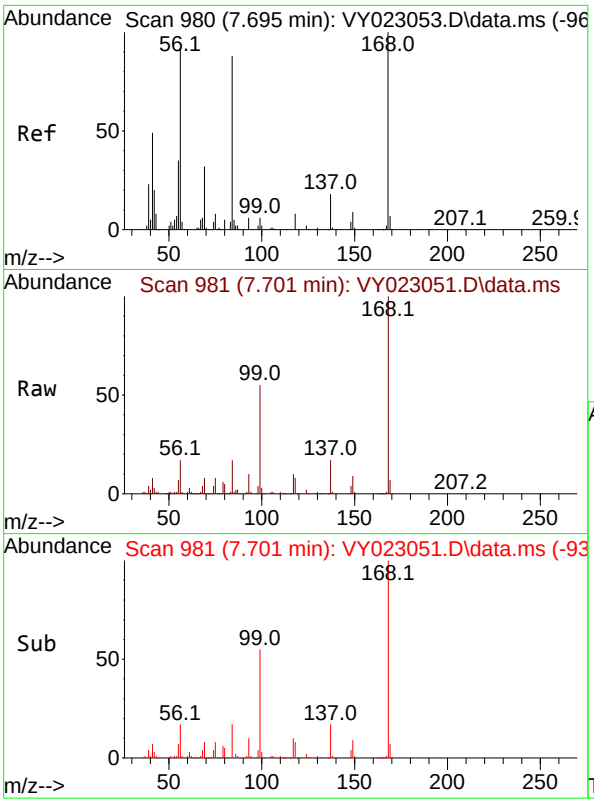


#30
Chloroform
Concen: 10.260 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 109942

Ion	Ratio	Lower	Upper
83	100		
85	61.6	53.8	80.8



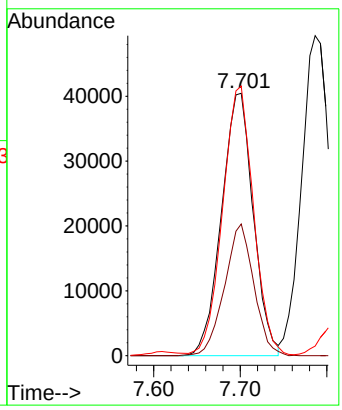


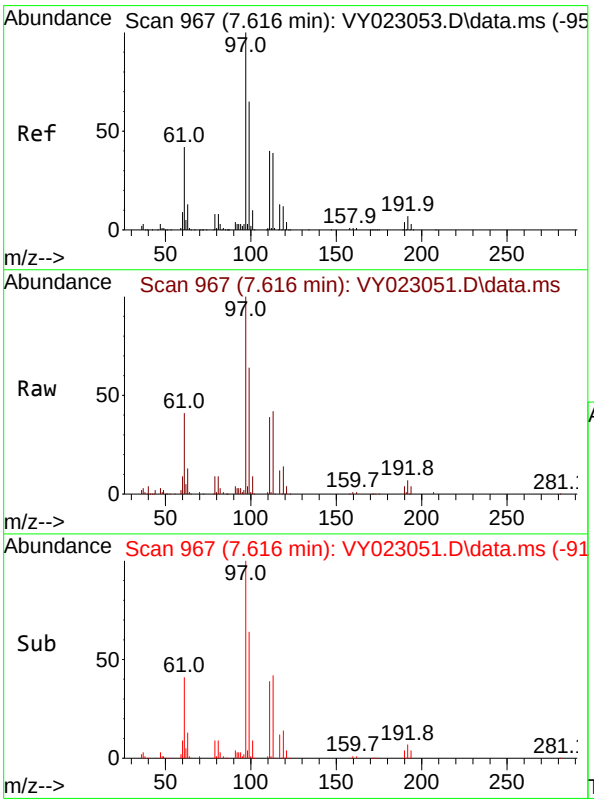
#31
Cyclohexane
Concen: 10.527 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

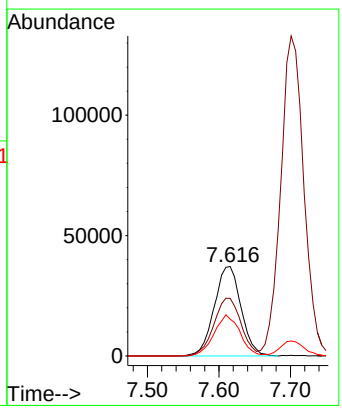


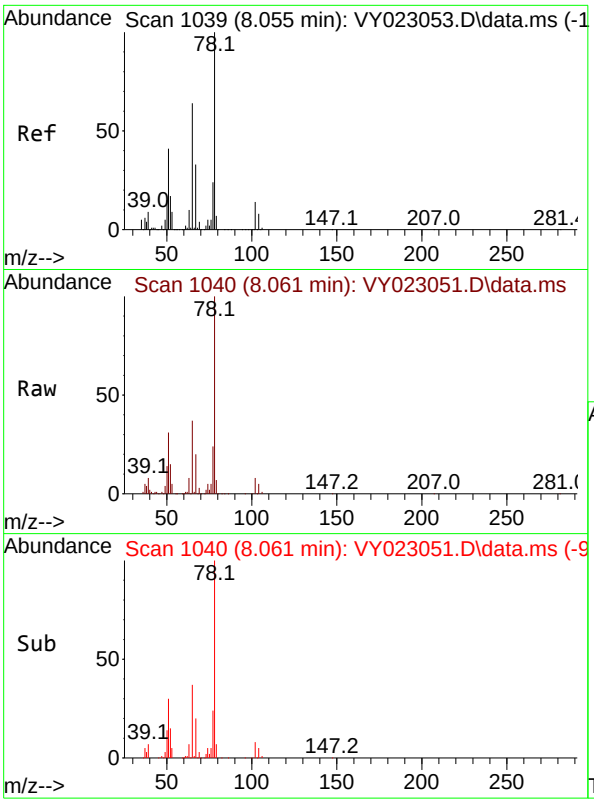


#32
1,1,1-Trichloroethane
Concen: 10.170 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



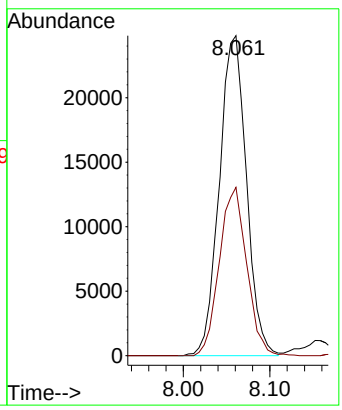


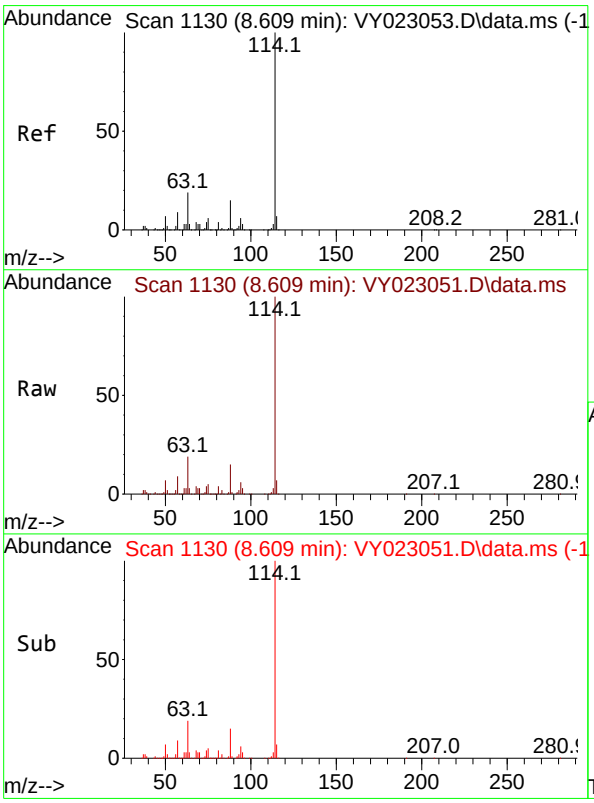
#33
1,2-Dichloroethane-d4
Concen: 10.274 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 54002

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8

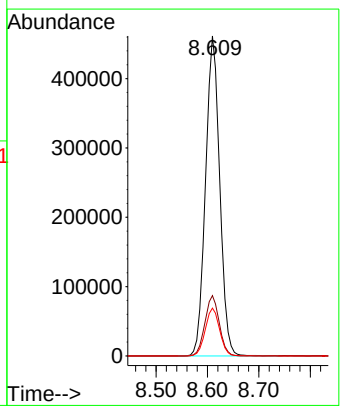


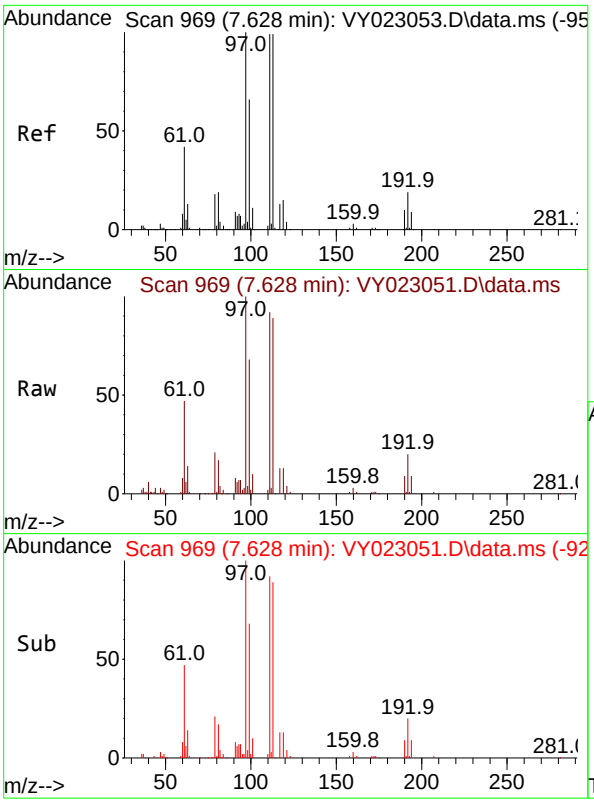


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



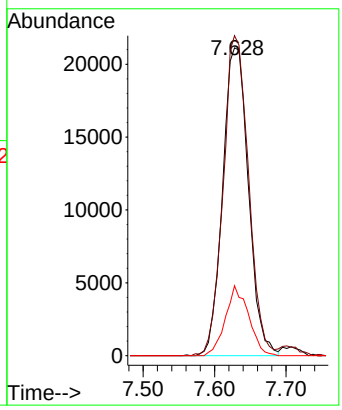


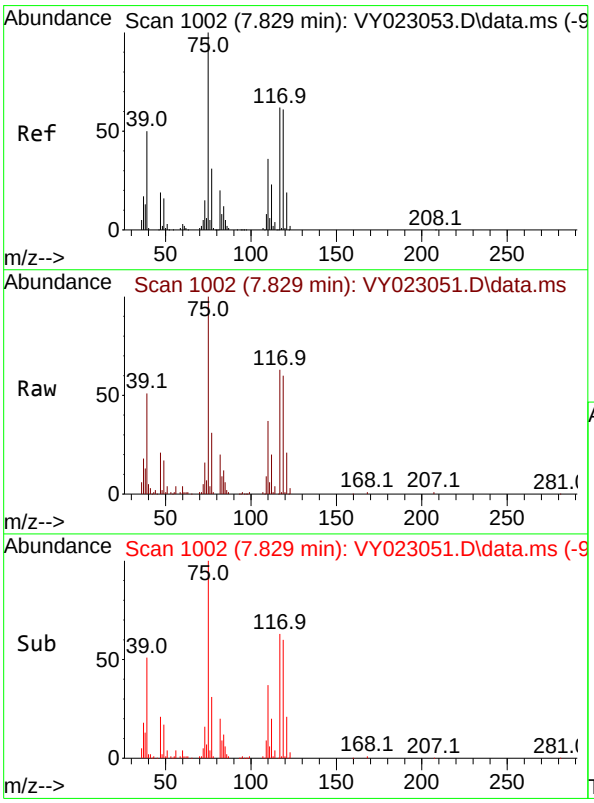
#35
Dibromofluoromethane
Concen: 10.009 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

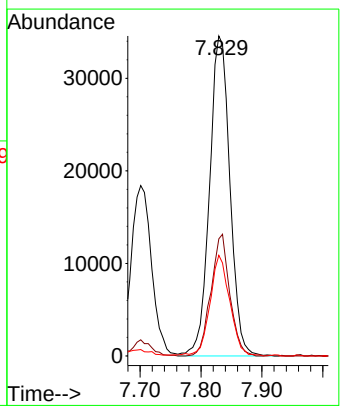


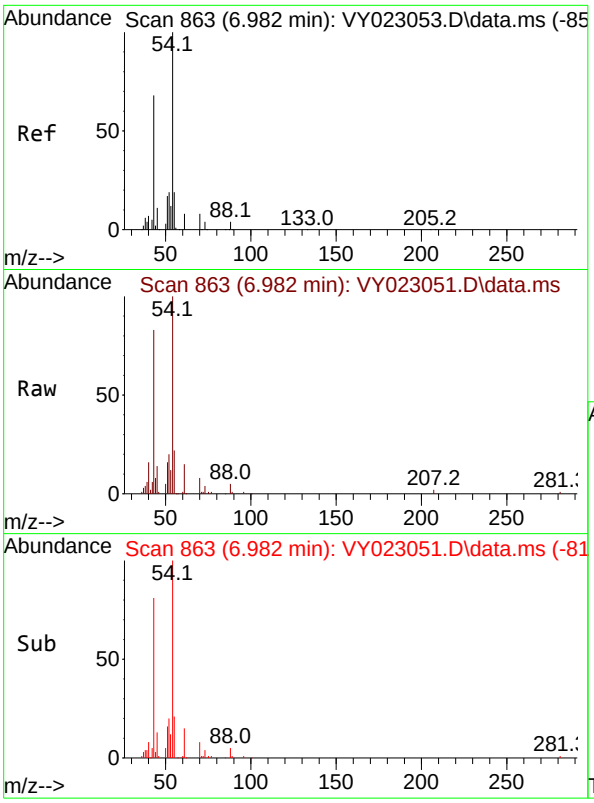


#36
1,1-Dichloropropene
Concen: 10.243 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



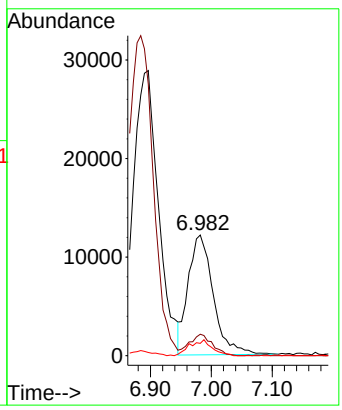


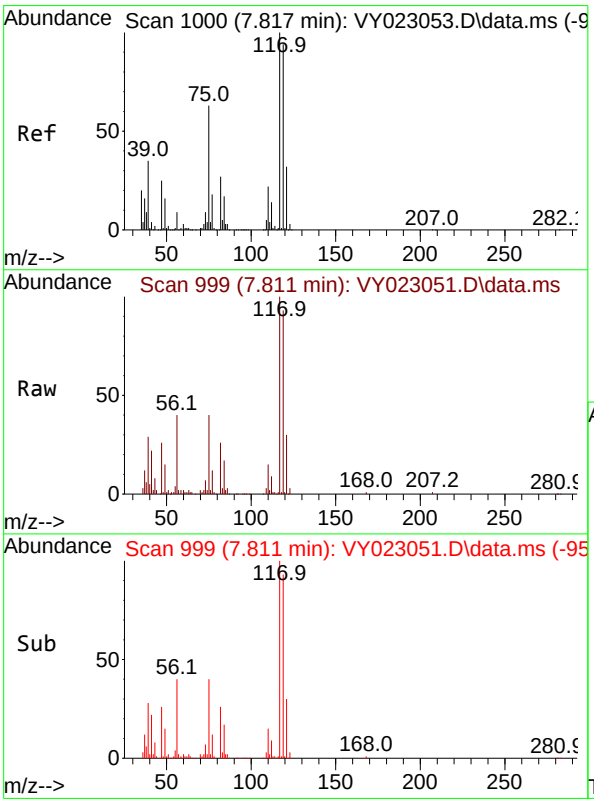
#37
Ethyl Acetate
Concen: 10.560 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

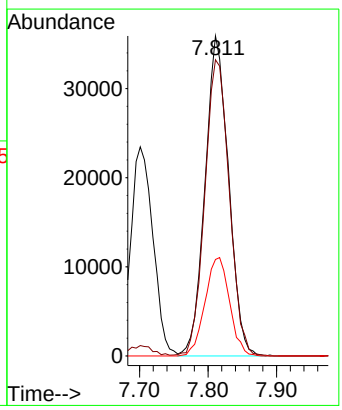


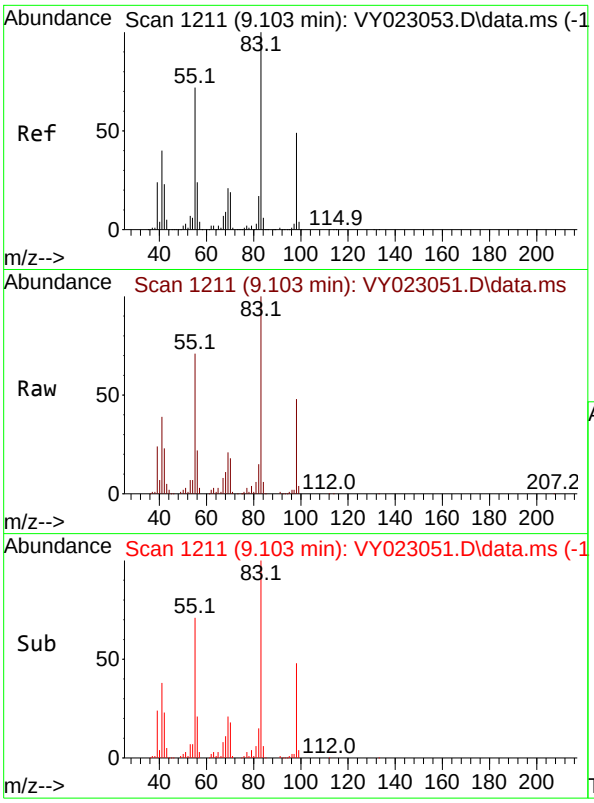


#38
Carbon Tetrachloride
Concen: 10.070 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



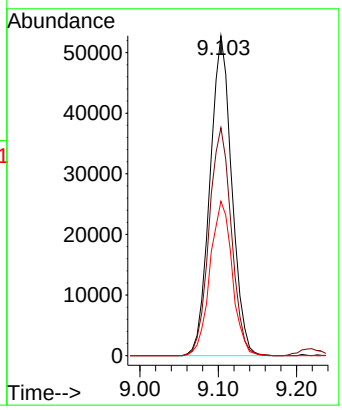


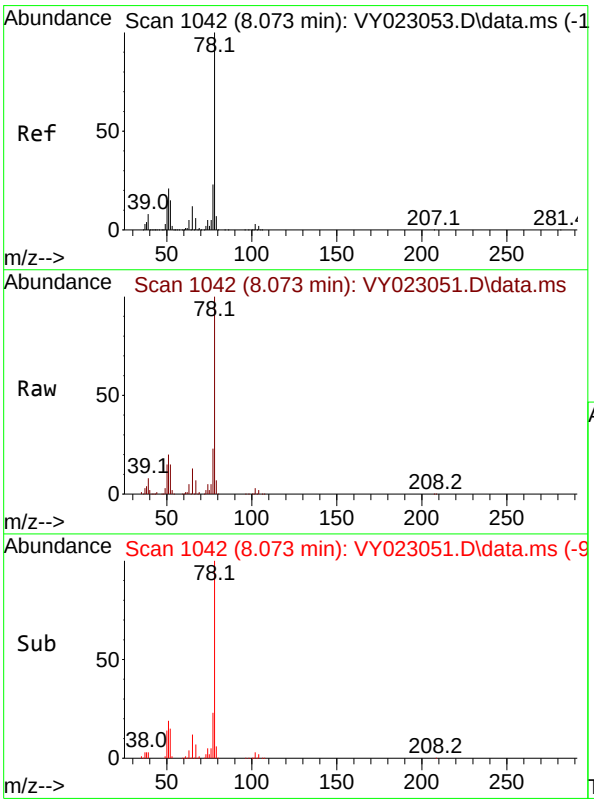
#39
Methylcyclohexane
Concen: 9.885 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

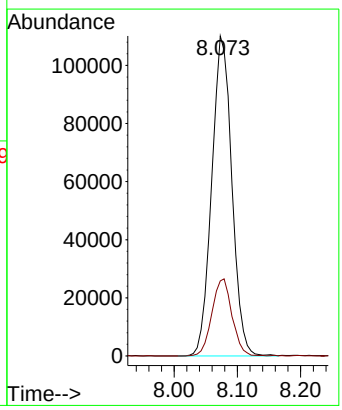


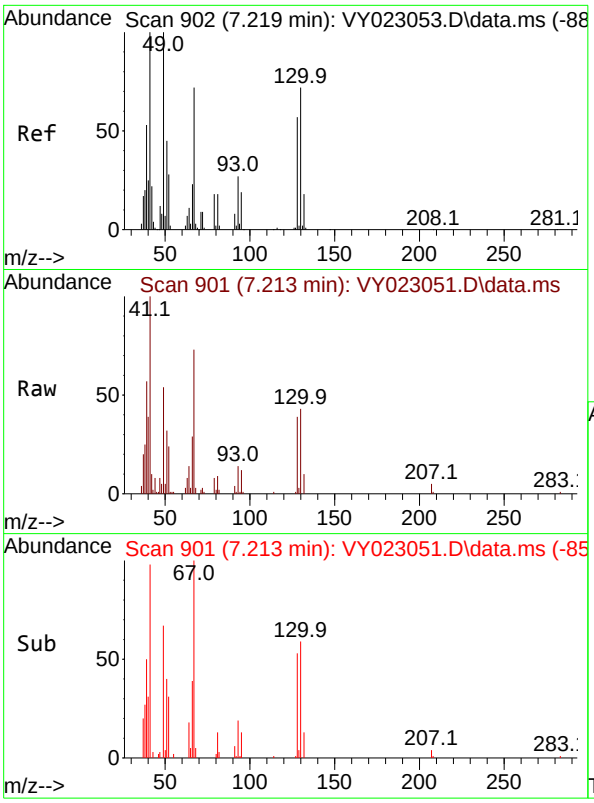


#40
Benzene
Concen: 10.037 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 78 Resp: 243060

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.6	28.0



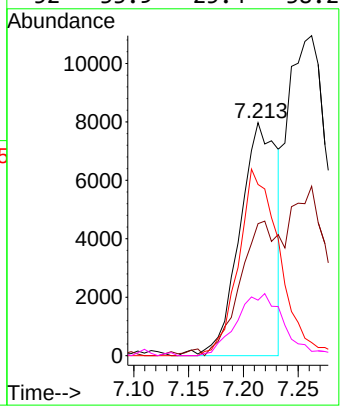


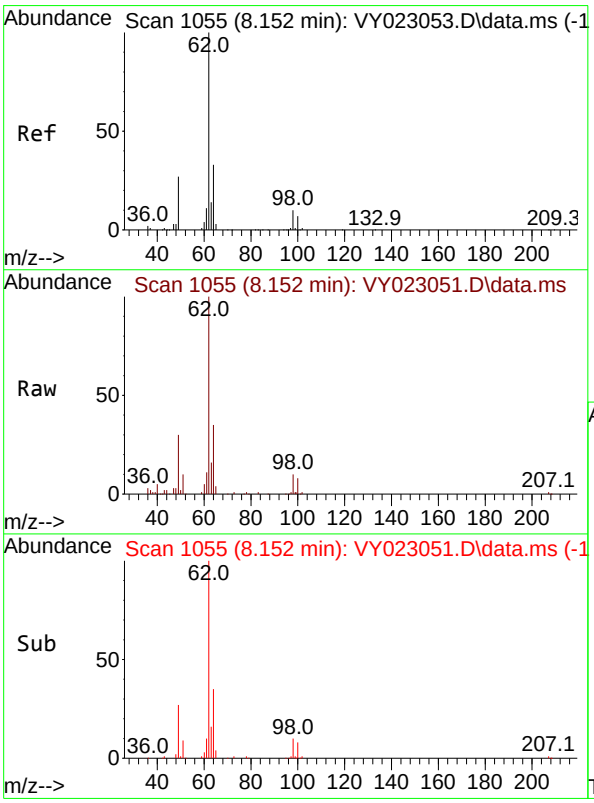
#41
Methacrylonitrile
Concen: 9.872 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

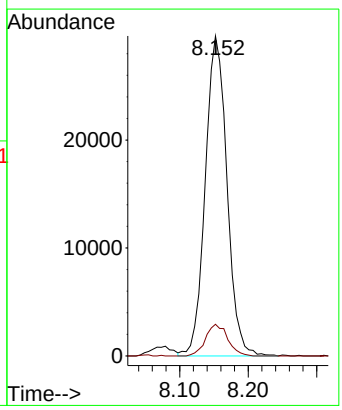


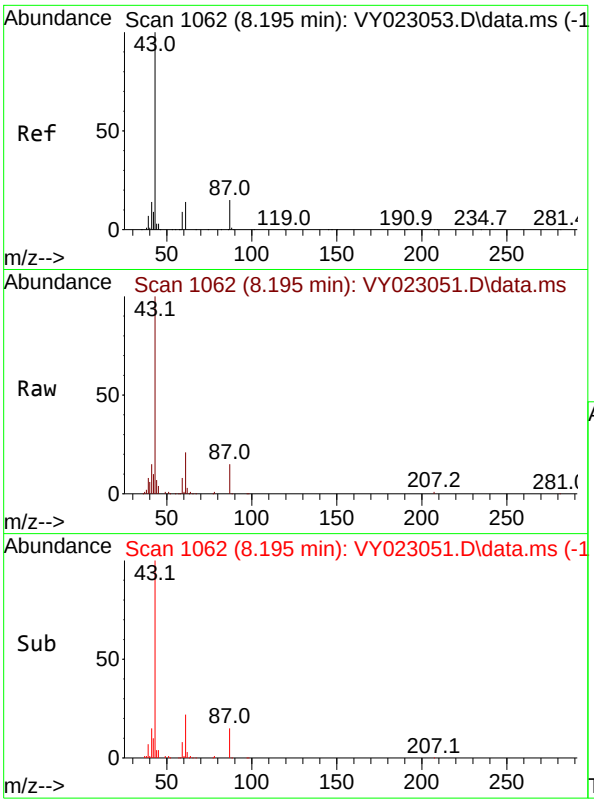


#42
1,2-Dichloroethane
Concen: 10.376 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 65350

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



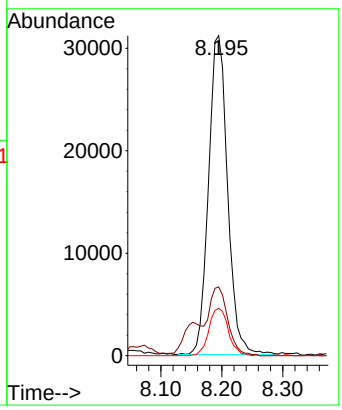


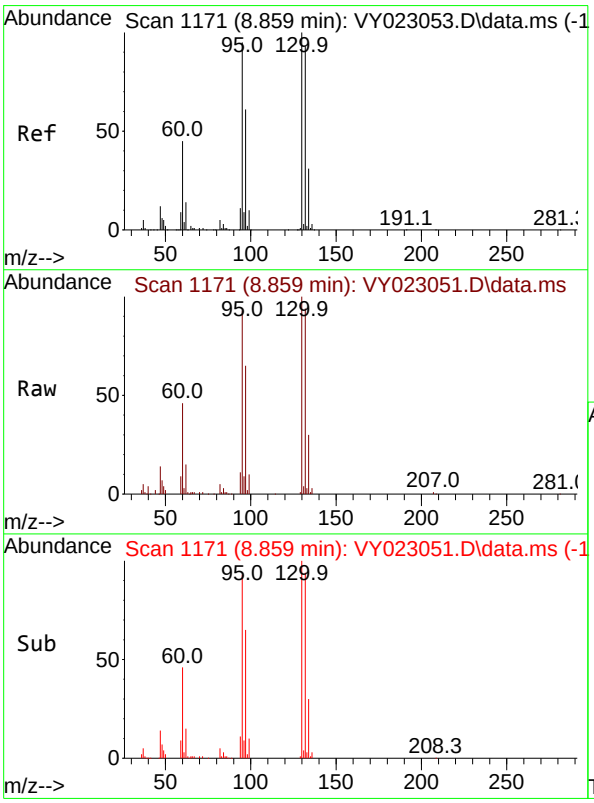
#43
Isopropyl Acetate
Concen: 10.144 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

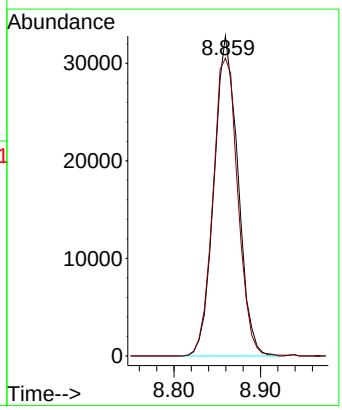


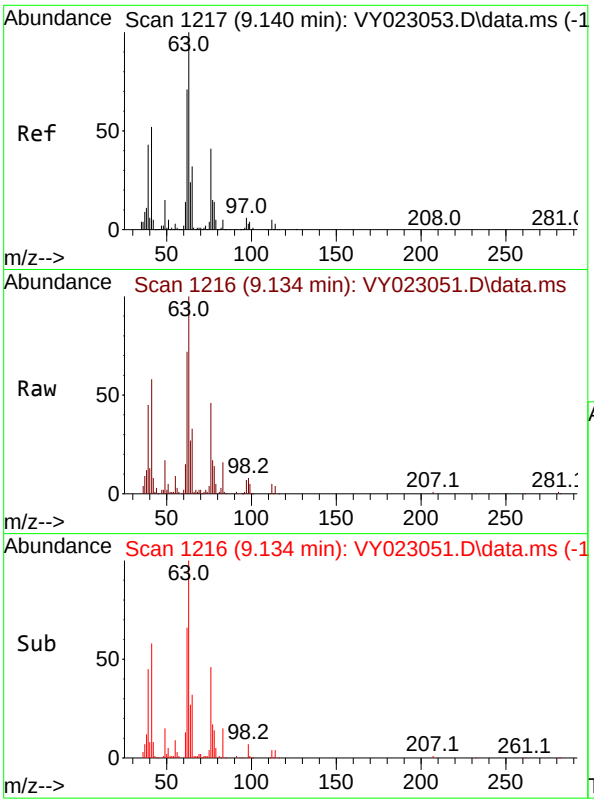


#44
Trichloroethene
Concen: 10.017 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:130 Resp: 62689

Ion	Ratio	Lower	Upper
130	100		
95	93.0	0.0	190.2



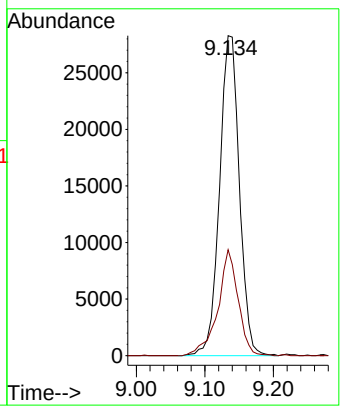


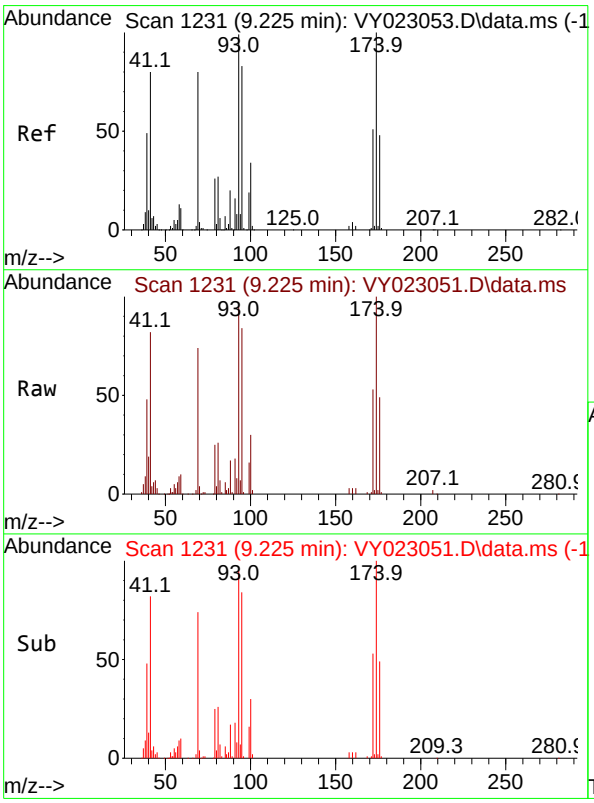
#45
1,2-Dichloropropane
Concen: 10.179 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 56720

Ion	Ratio	Lower	Upper
63	100		
65	33.1	25.3	37.9

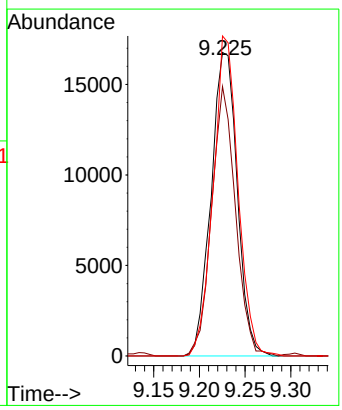


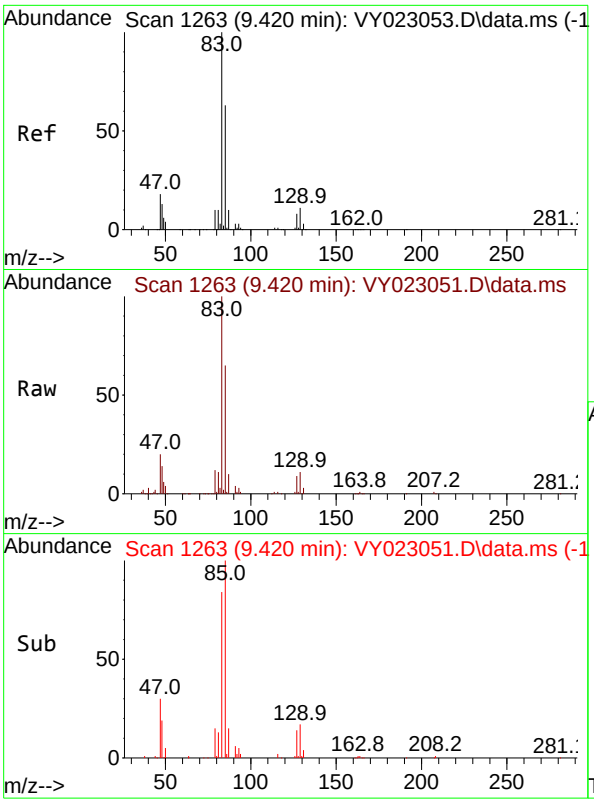


#46
Dibromomethane
Concen: 10.462 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



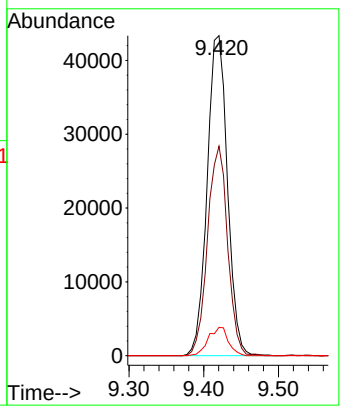


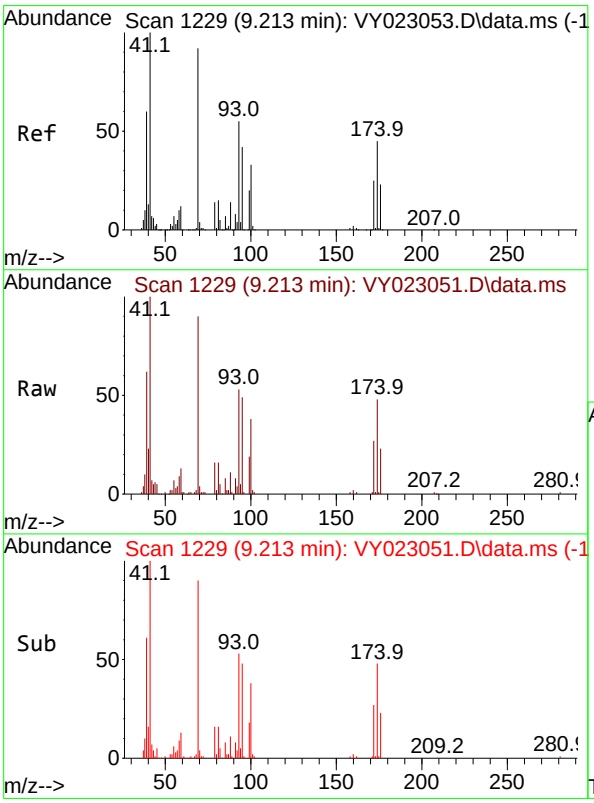
#47
Bromodichloromethane
Concen: 9.959 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

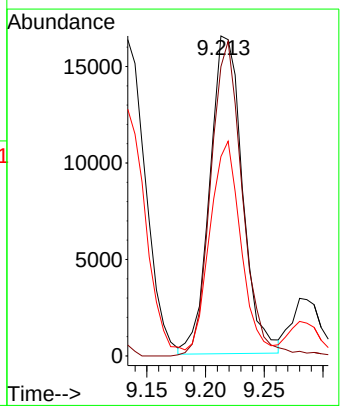


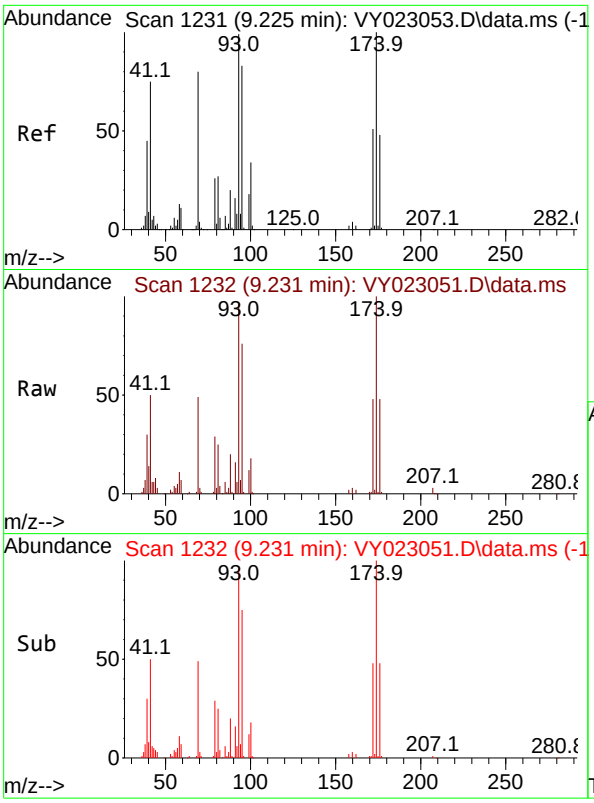


#48
Methyl methacrylate
Concen: 9.978 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



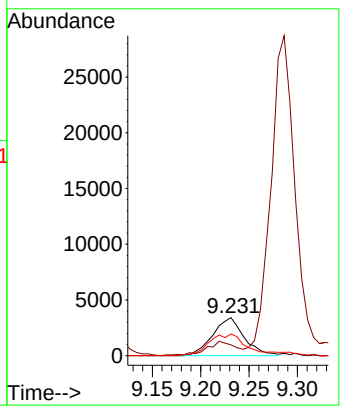


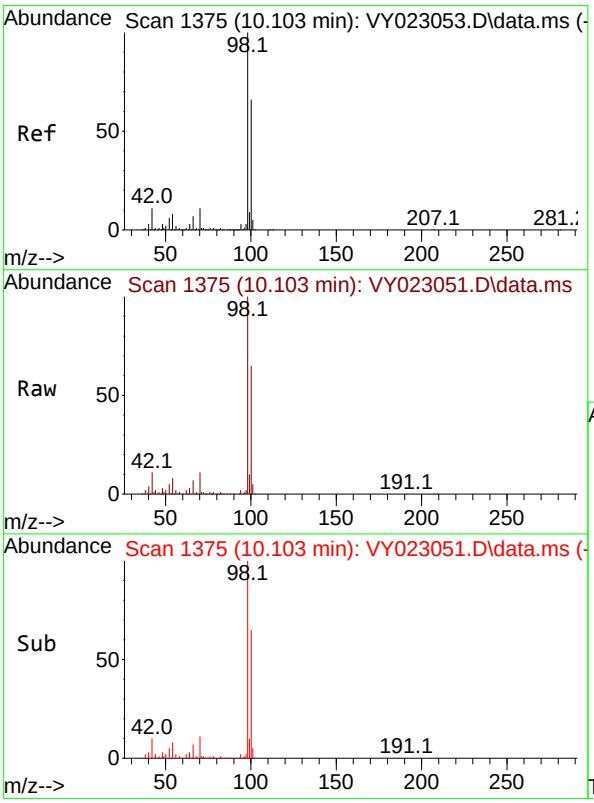
#49
1,4-Dioxane
Concen: 205.471 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

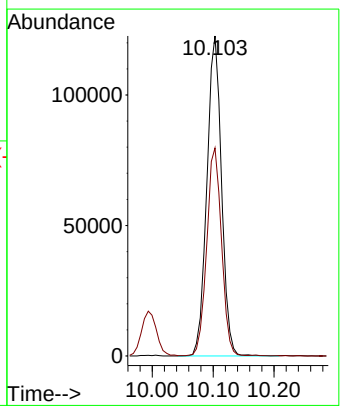


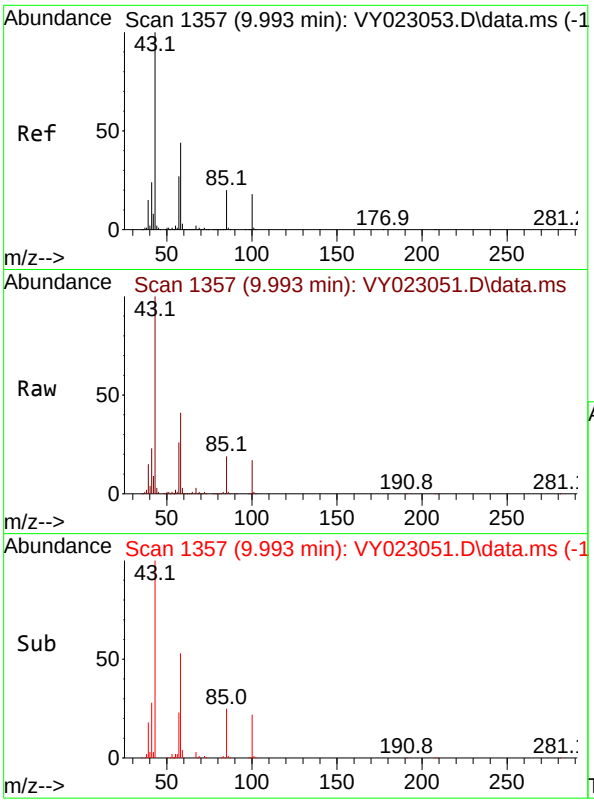


#50
Toluene-d8
Concen: 9.903 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 98 Resp: 204532

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5



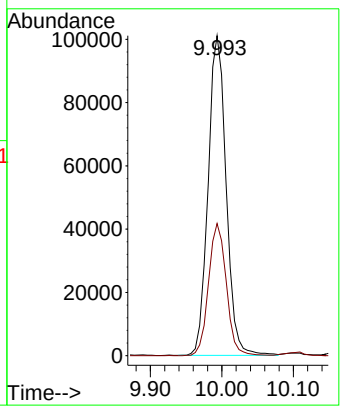


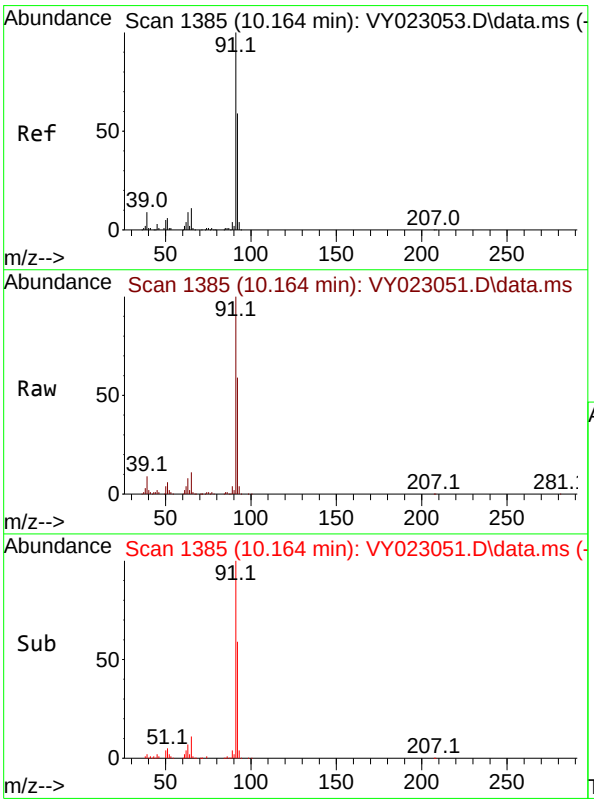
#51
4-Methyl-2-Pentanone
Concen: 51.484 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 177157

Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.5	50.3

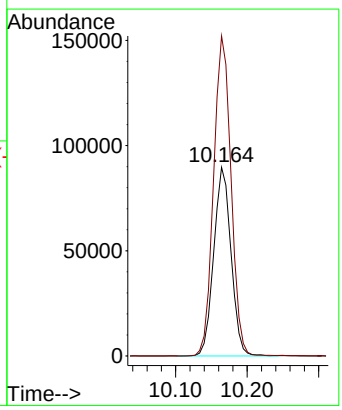


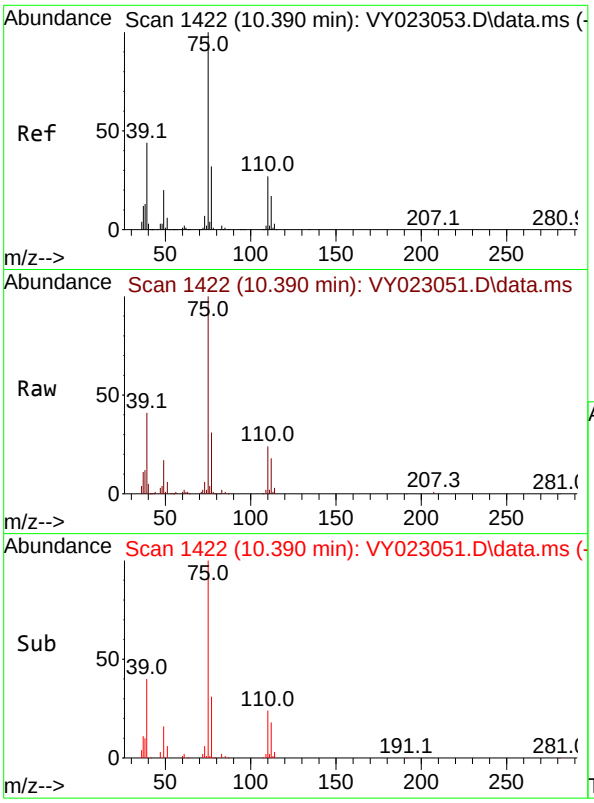


#52
Toluene
Concen: 9.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 92 Resp: 150422

Ion	Ratio	Lower	Upper
92	100		
91	171.3	136.4	204.6



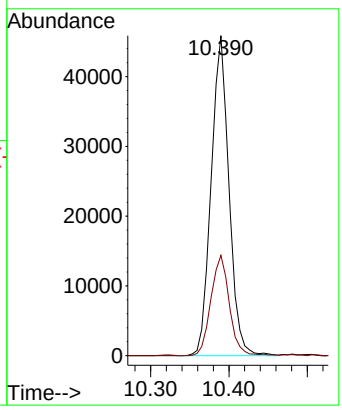


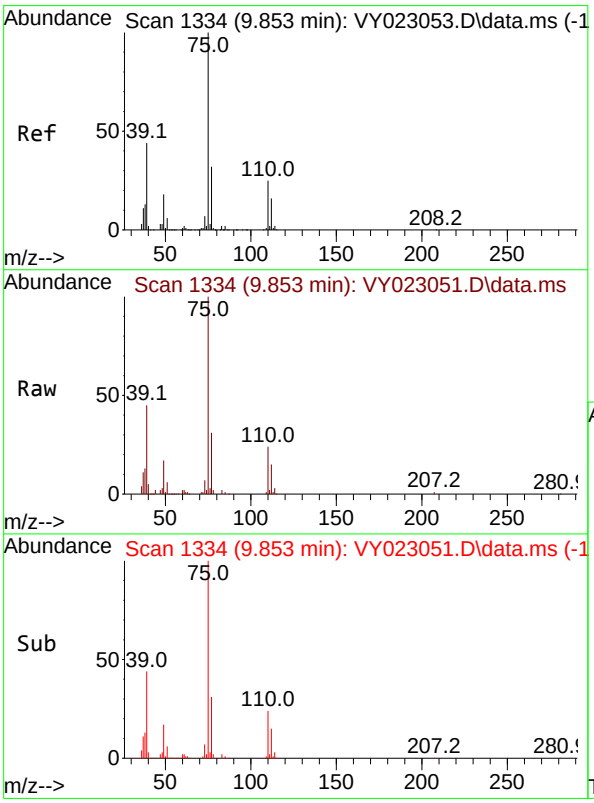
#53
t-1,3-Dichloropropene
Concen: 9.730 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 72507

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.7	38.5

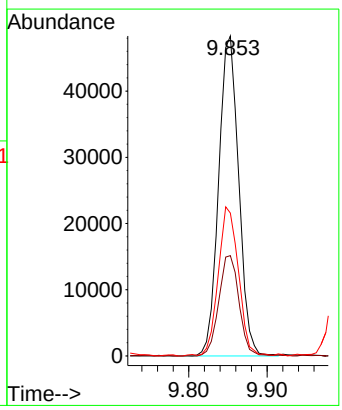


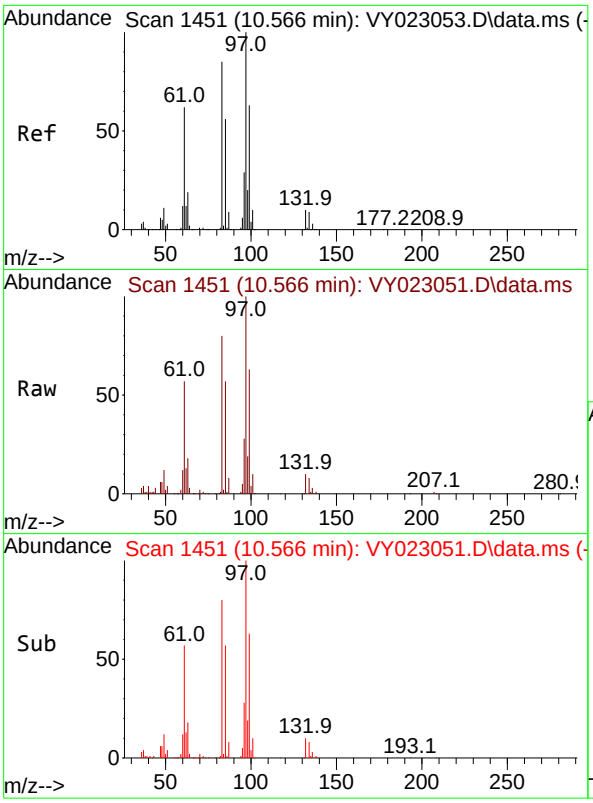


#54
cis-1,3-Dichloropropene
Concen: 9.753 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



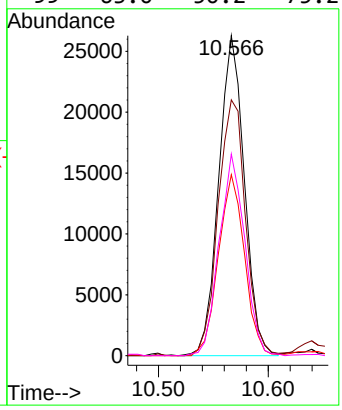


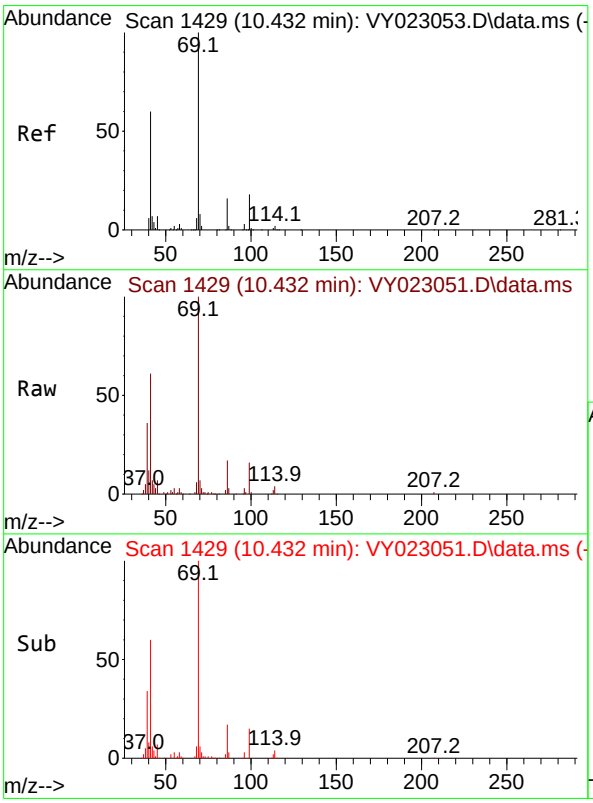
#55
1,1,2-Trichloroethane
Concen: 9.981 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

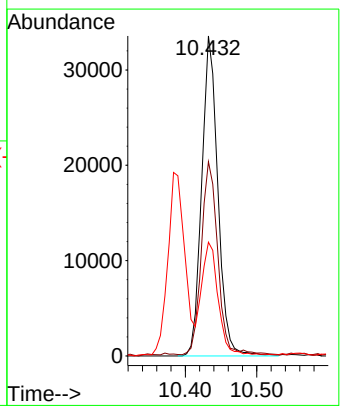


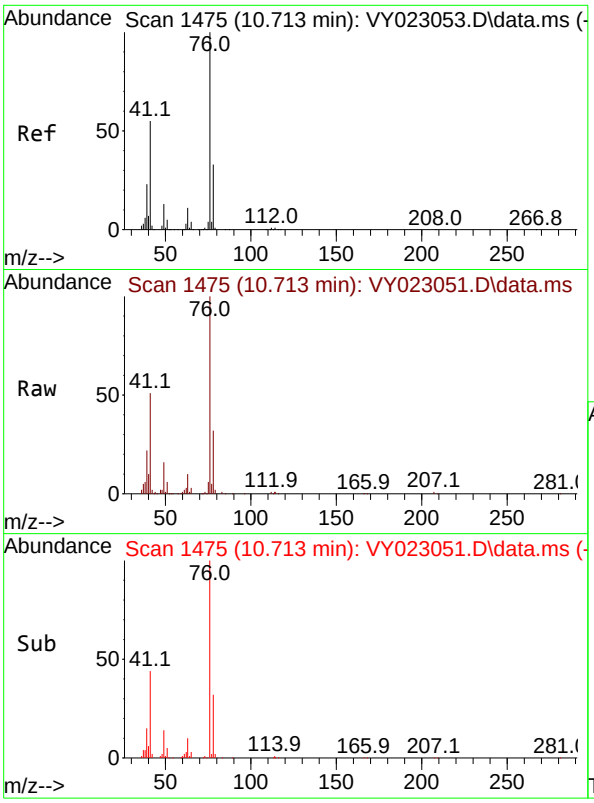


#56
Ethyl methacrylate
Concen: 9.632 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



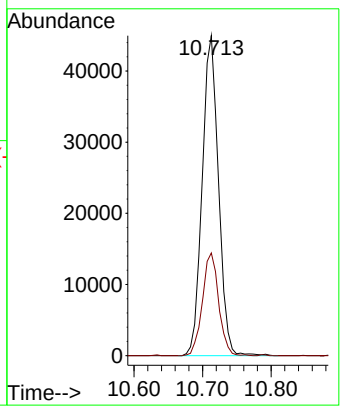


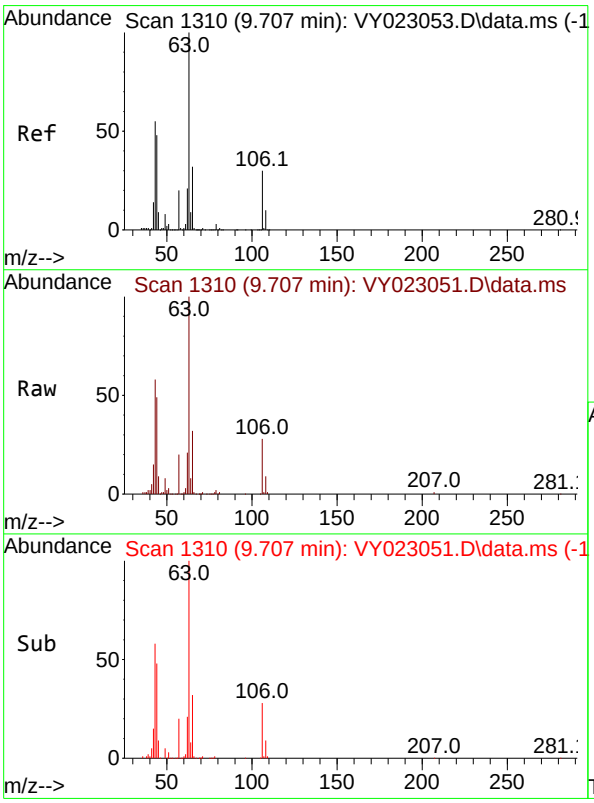
#57
1,3-Dichloropropane
Concen: 10.256 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 74433

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0

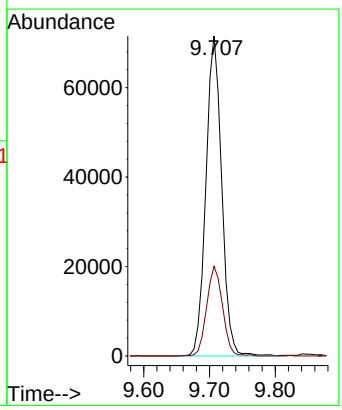


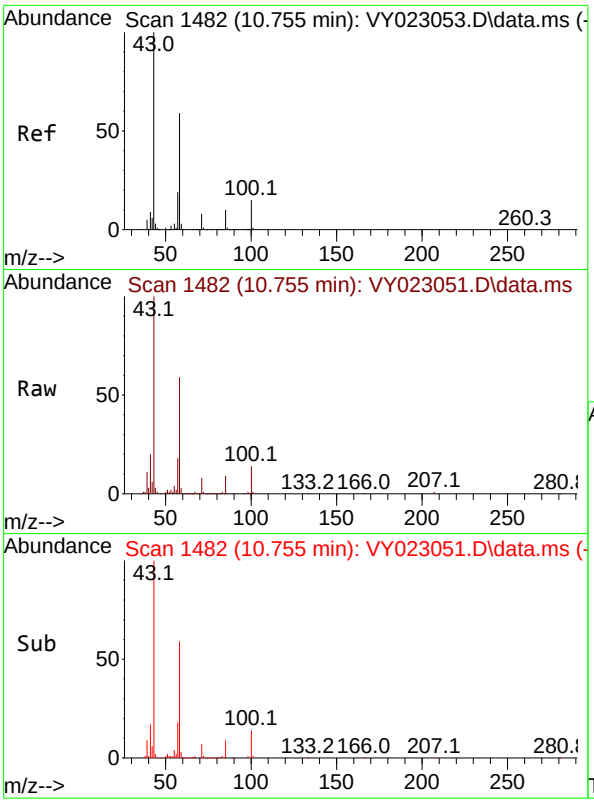


#58
2-Chloroethyl Vinyl ether
Concen: 46.232 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 119417

Ion	Ratio	Lower	Upper
63	100		
106	28.2	23.2	34.8



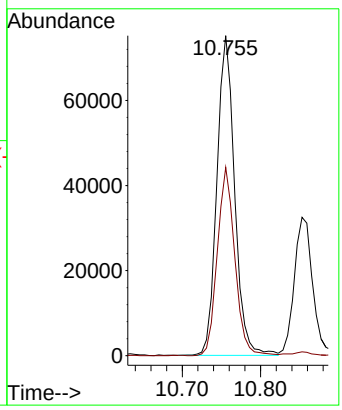


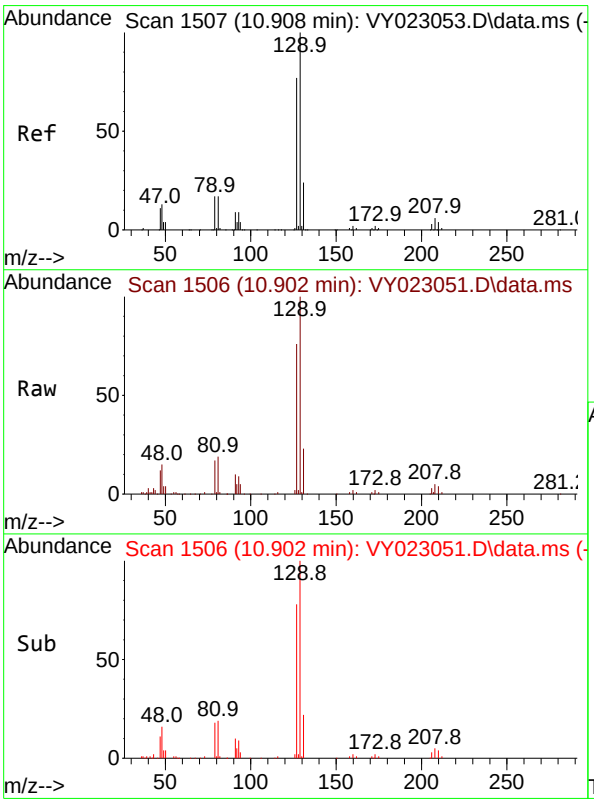
#59
2-Hexanone
Concen: 50.553 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 118452

Ion	Ratio	Lower	Upper
43	100		
58	58.3	29.5	88.5

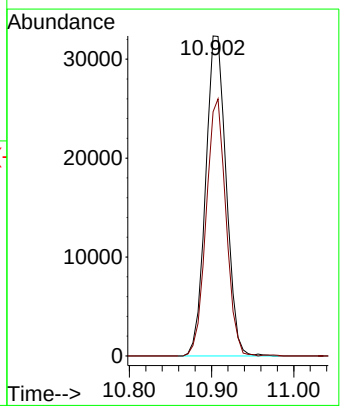


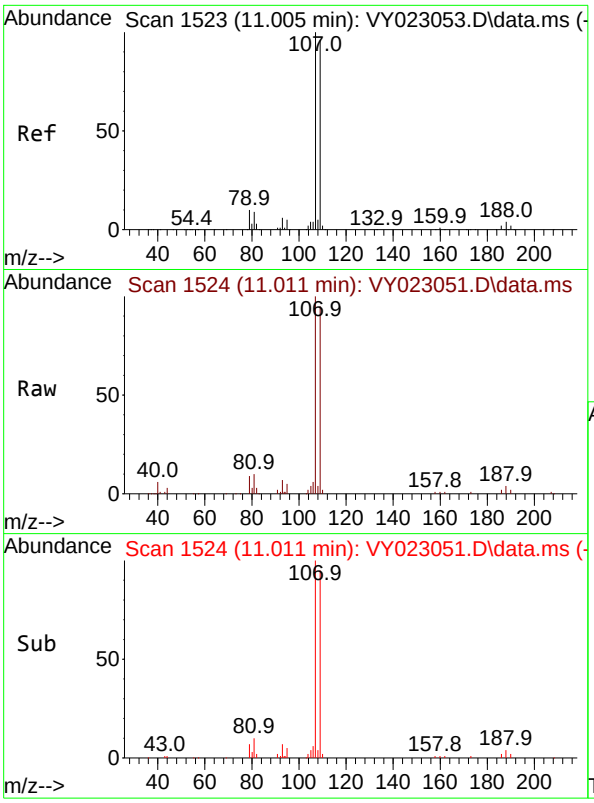


#60
Dibromochloromethane
Concen: 9.925 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:129 Resp: 56045

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5



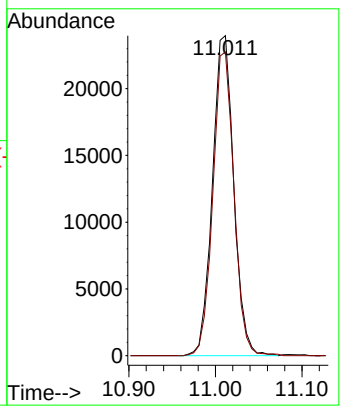


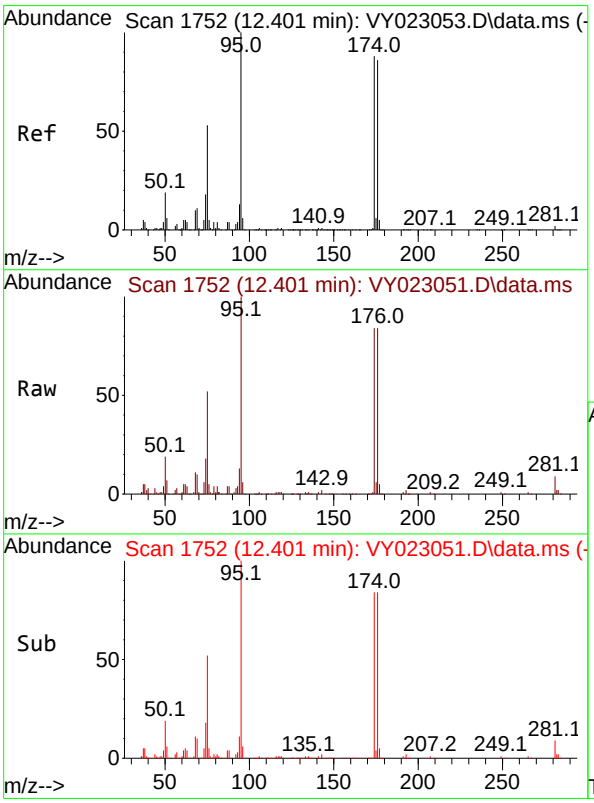
#61
1,2-Dibromoethane
Concen: 10.196 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 41009

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.6	113.4

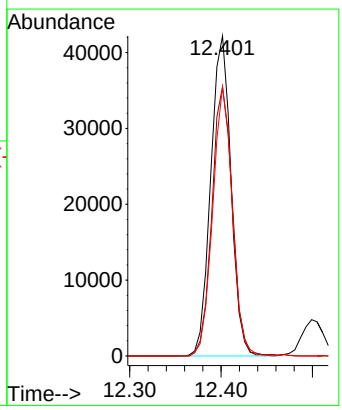


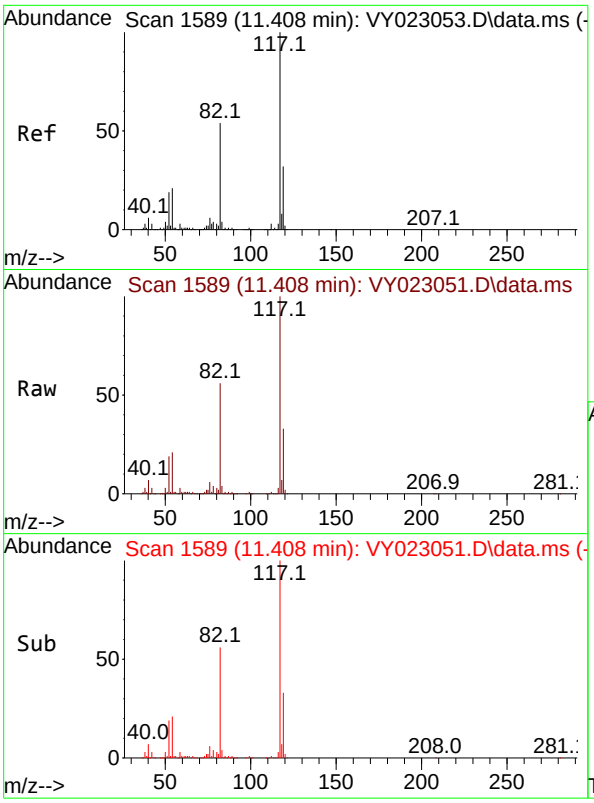


#62
4-Bromofluorobenzene
Concen: 9.775 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



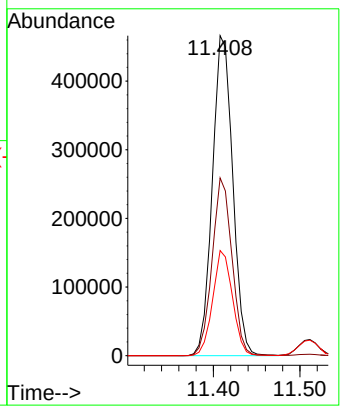


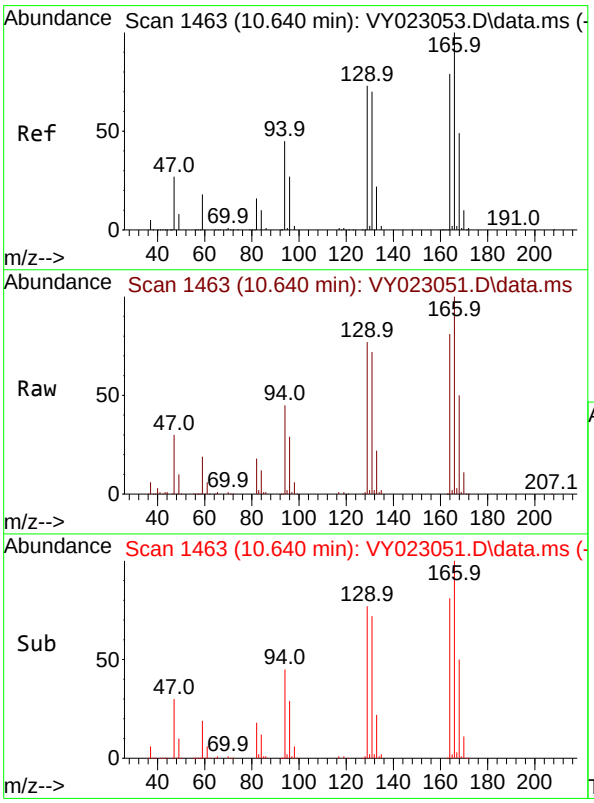
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

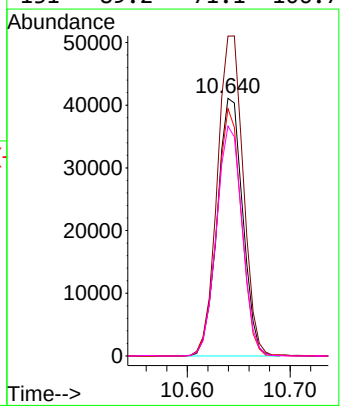


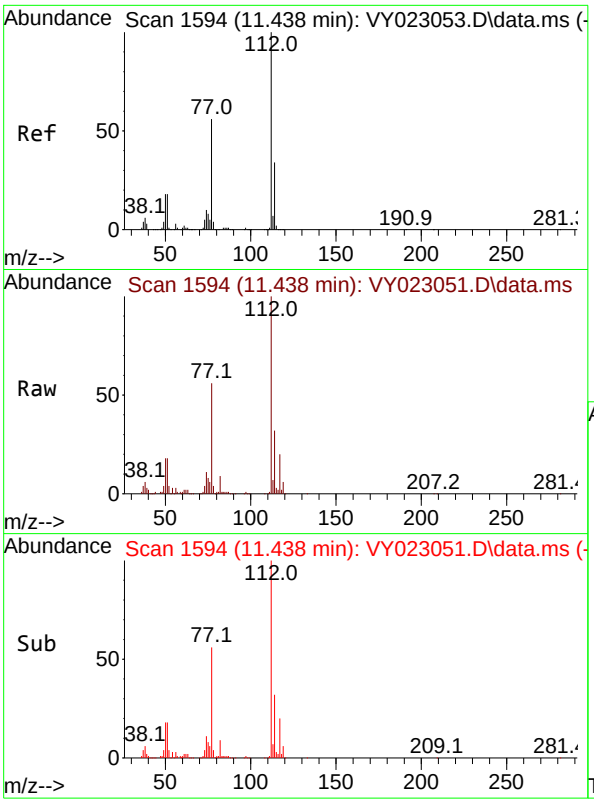


#64
Tetrachloroethene
Concen: 10.371 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



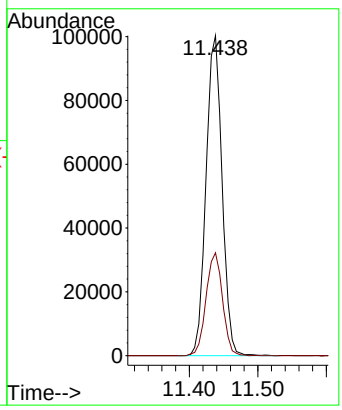


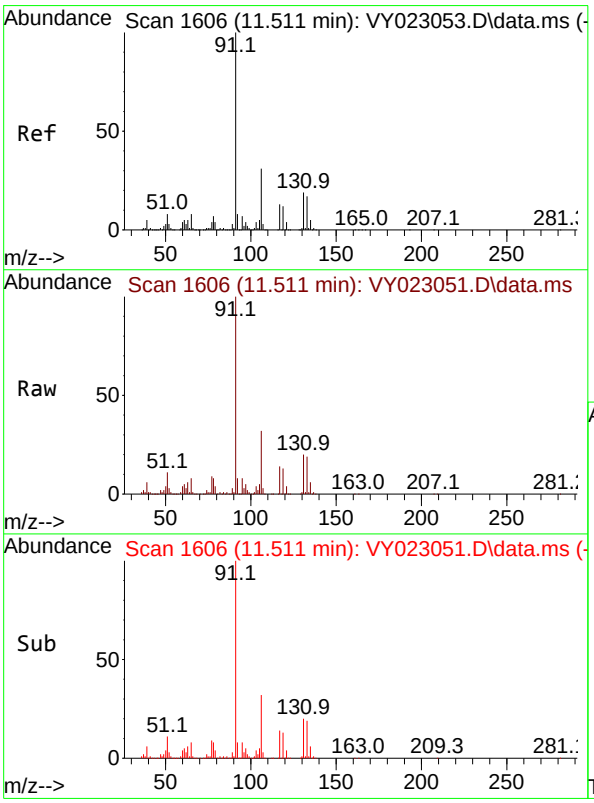
#65
Chlorobenzene
Concen: 9.925 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 162985

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

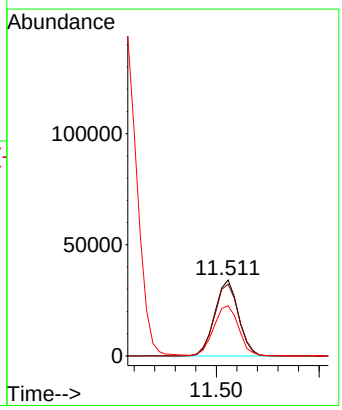


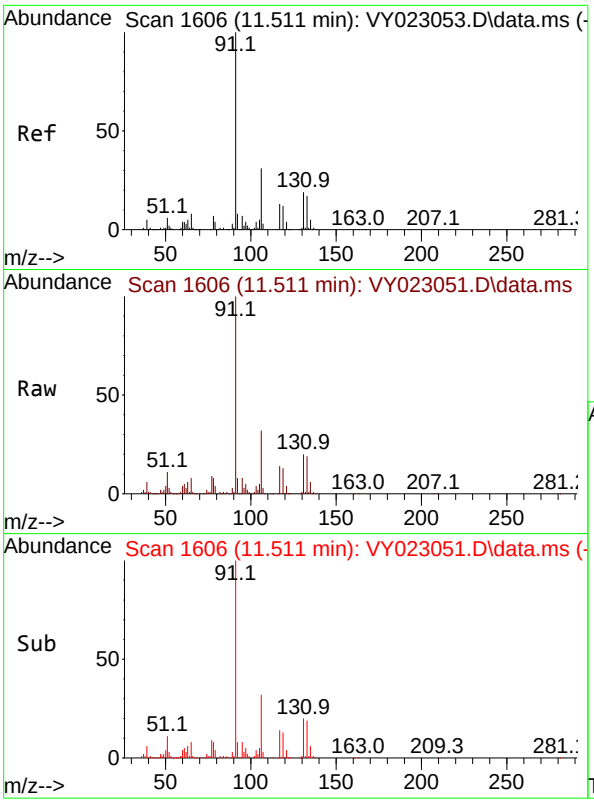


#66
1,1,1,2-Tetrachloroethane
Concen: 9.842 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



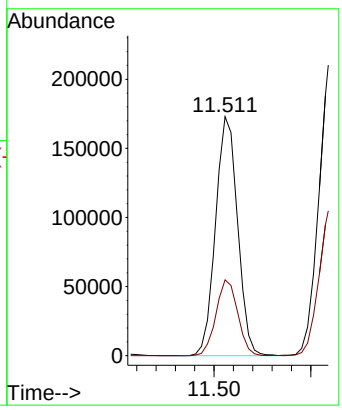


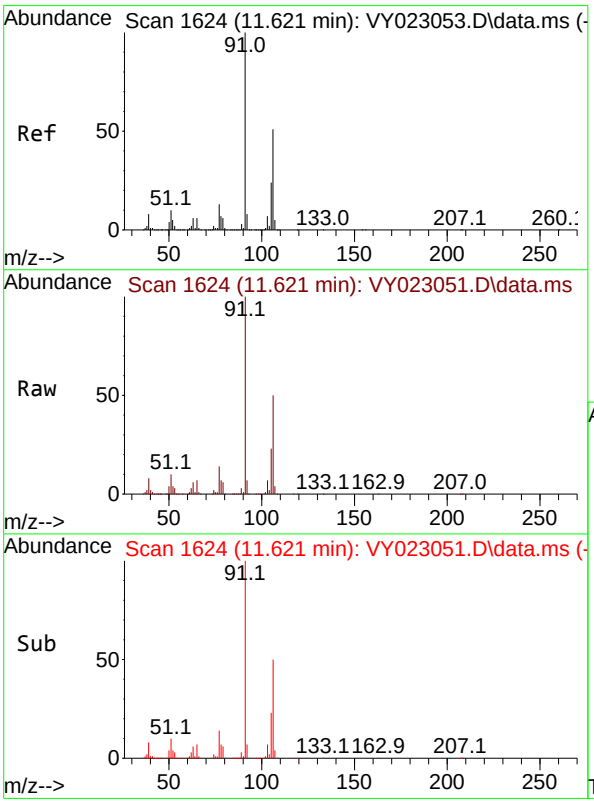
#67
Ethyl Benzene
Concen: 9.670 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 273281

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

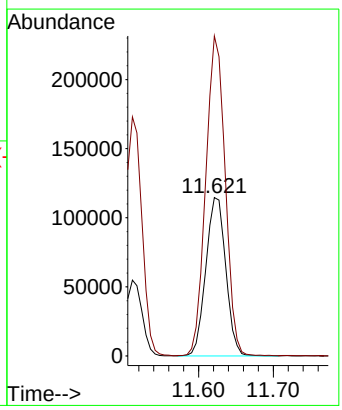


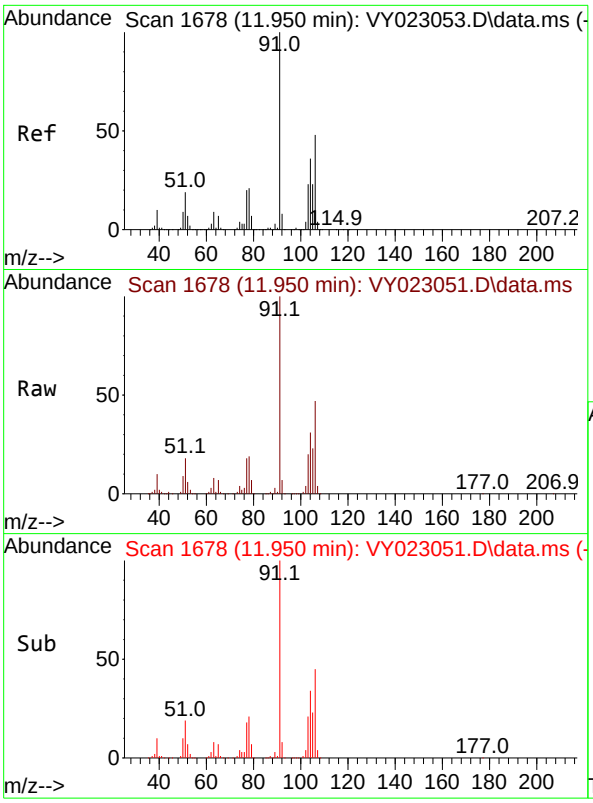


#68
m/p-Xylenes
Concen: 19.277 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 212766

Ion	Ratio	Lower	Upper
106	100		
91	196.5	158.6	238.0



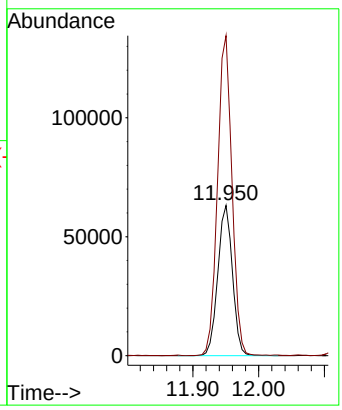


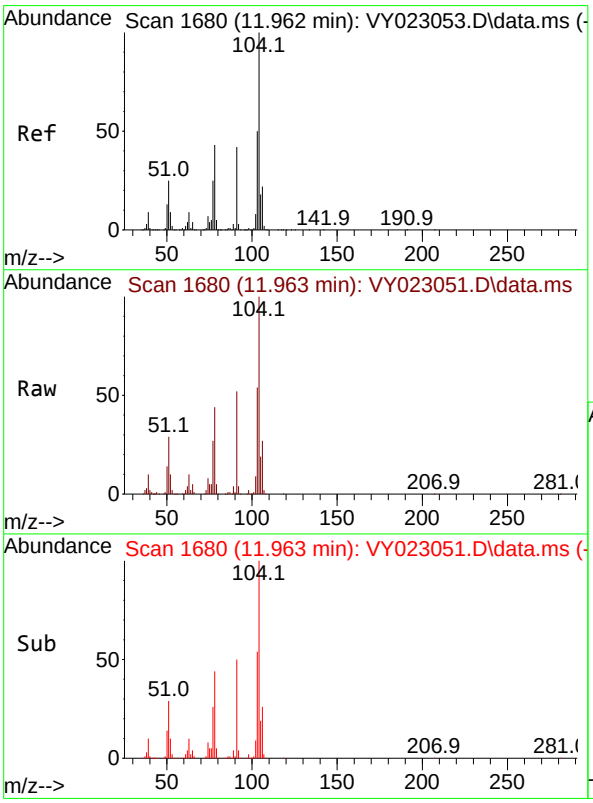
#69
o-Xylene
Concen: 9.465 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 97841

Ion	Ratio	Lower	Upper
106	100		
91	210.2	103.2	309.4

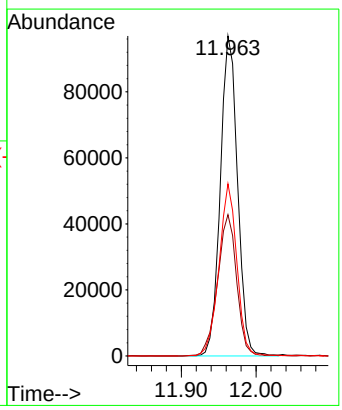


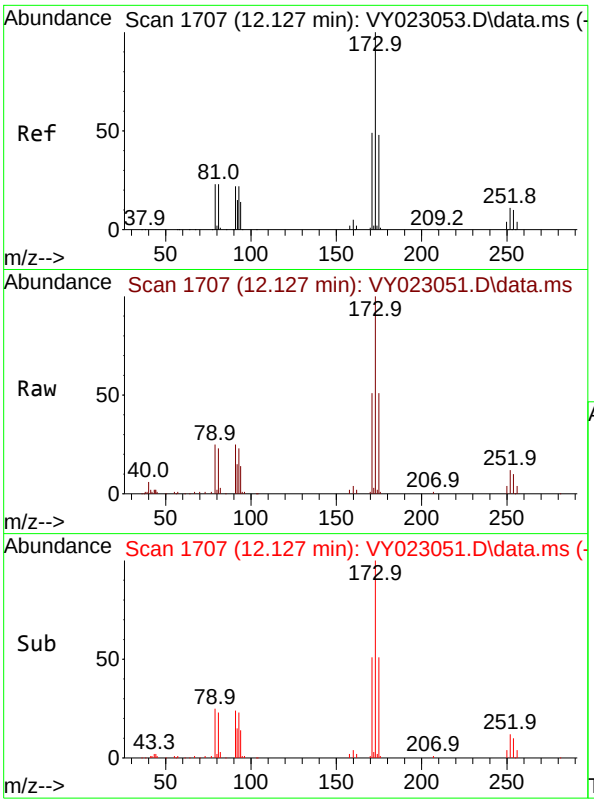


#70
Styrene
Concen: 9.216 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



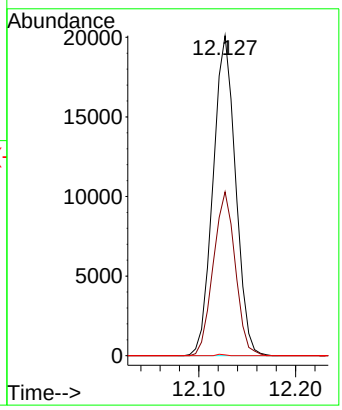


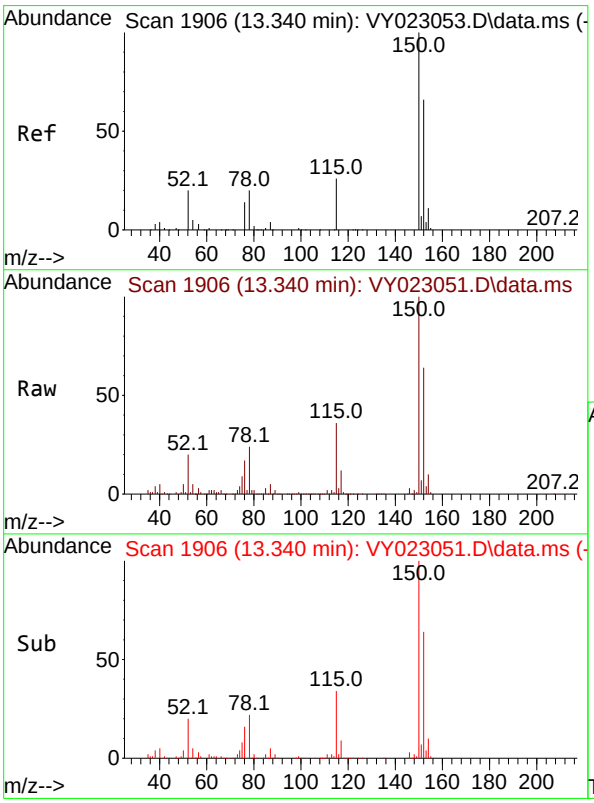
#71
Bromoform
Concen: 9.968 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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#

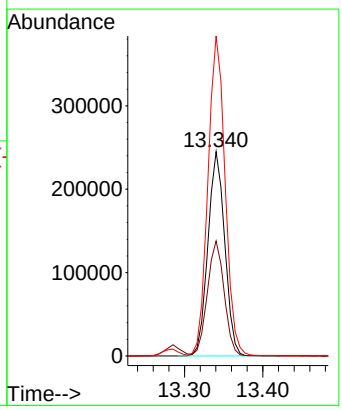


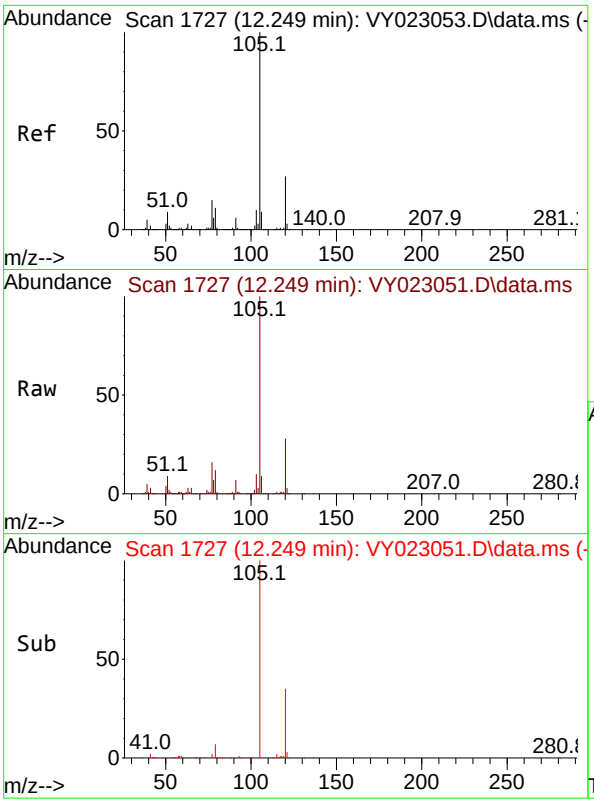


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



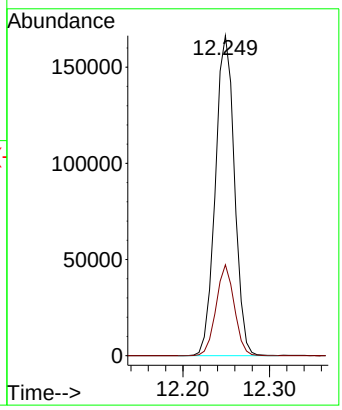


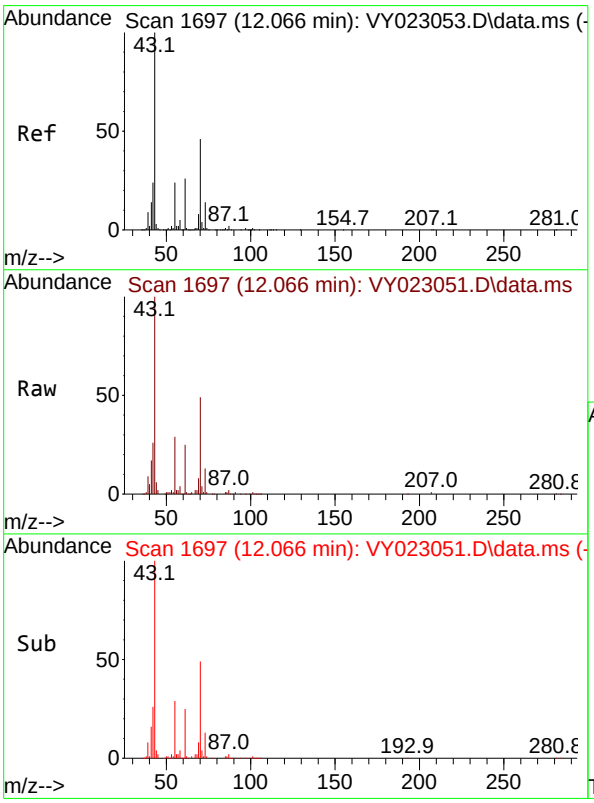
#73
Isopropylbenzene
Concen: 9.871 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 254745

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2

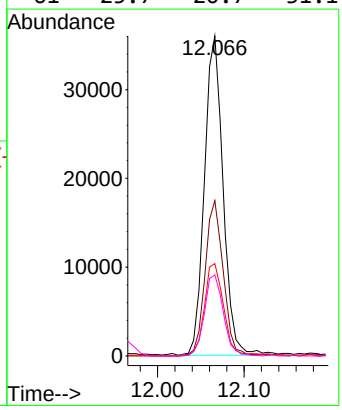


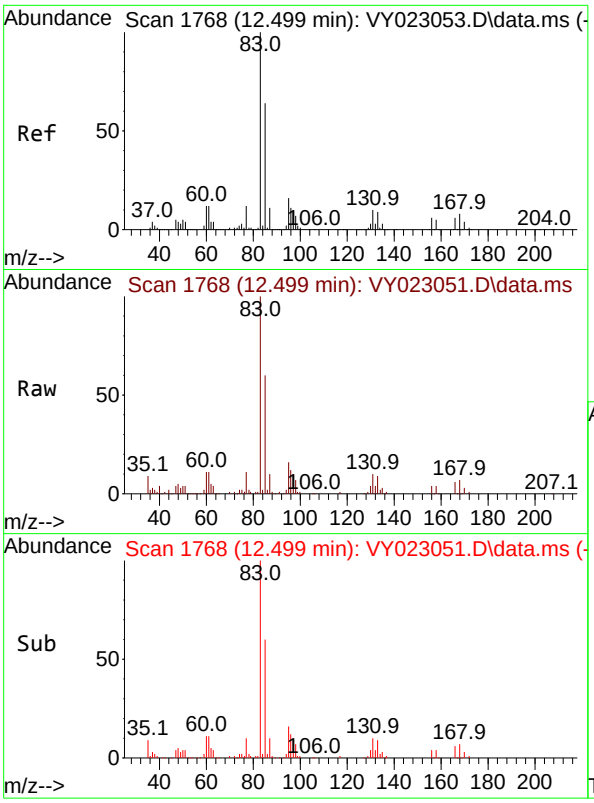


#74
N-amyl acetate
Concen: 9.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



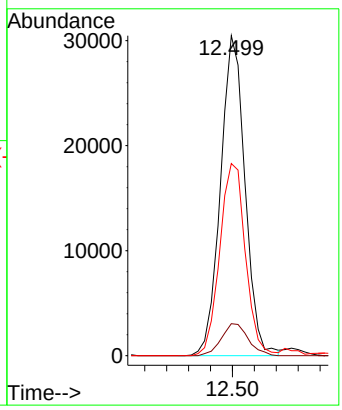


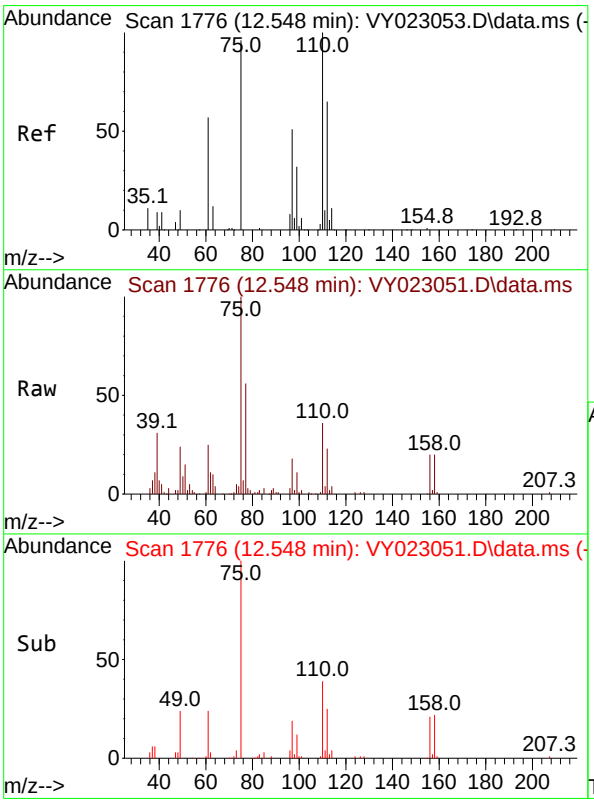
#75
1,1,2,2-Tetrachloroethane
Concen: 10.735 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

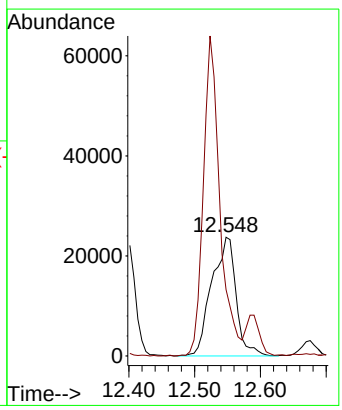


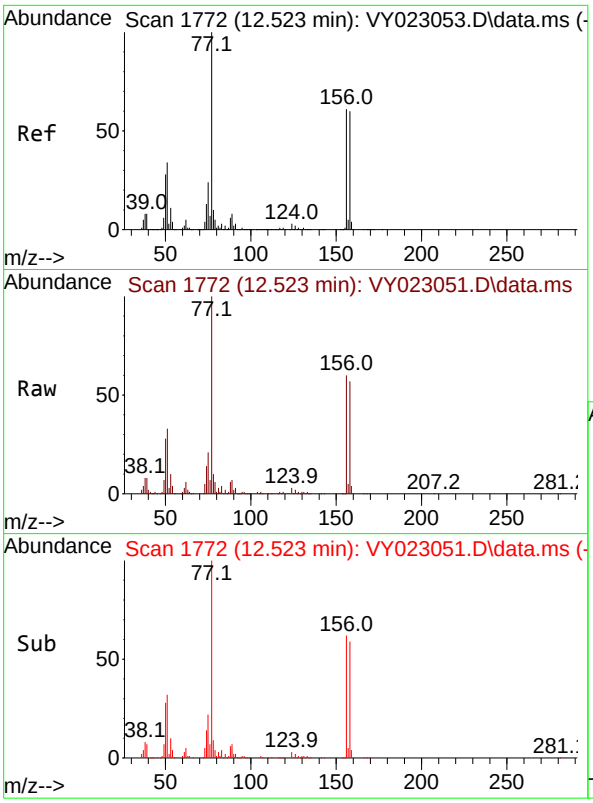


#76
1,2,3-Trichloropropane
Concen: 17.357 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 61290

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



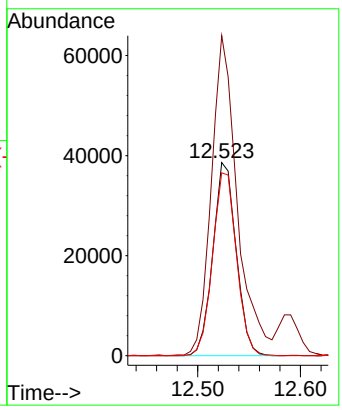


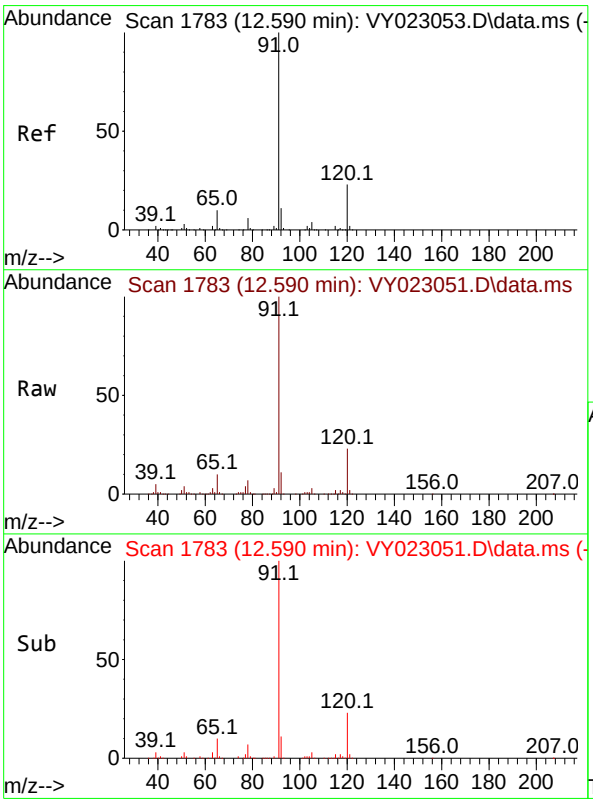
#77
Bromobenzene
Concen: 9.864 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

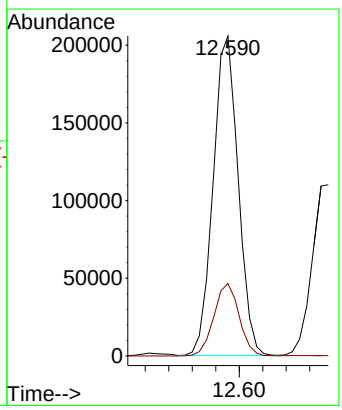


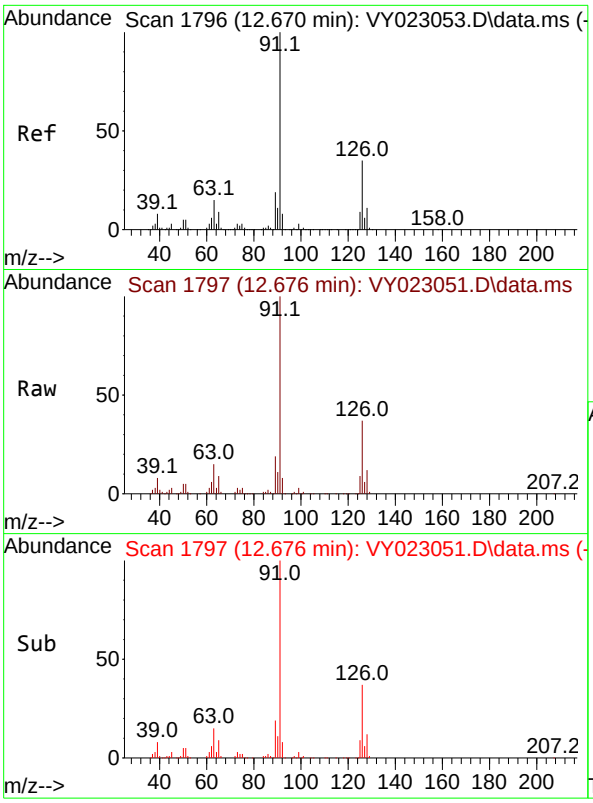


#78
n-propylbenzene
Concen: 9.876 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 303440

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



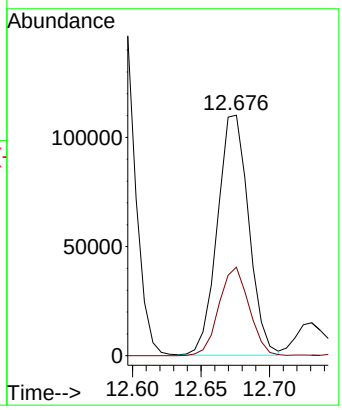


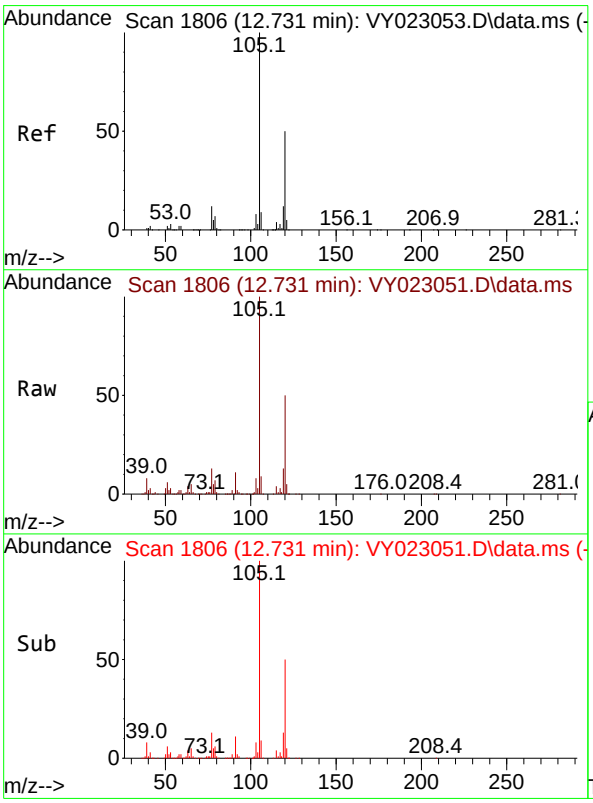
#79
2-Chlorotoluene
Concen: 9.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 175364

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.4	52.3

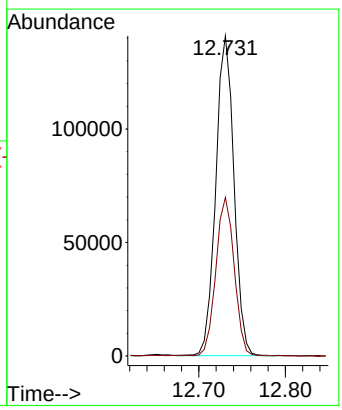


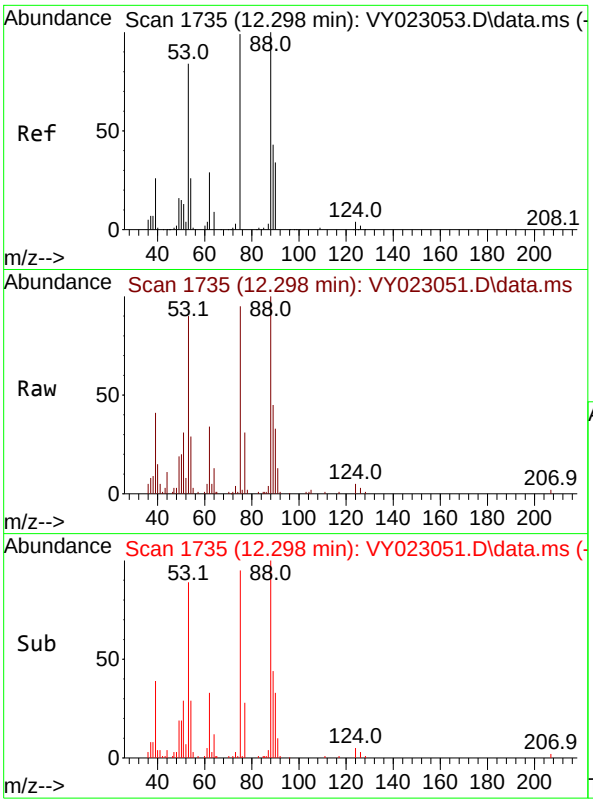


#80
1,3,5-Trimethylbenzene
Concen: 9.855 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 205544

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.8	74.4



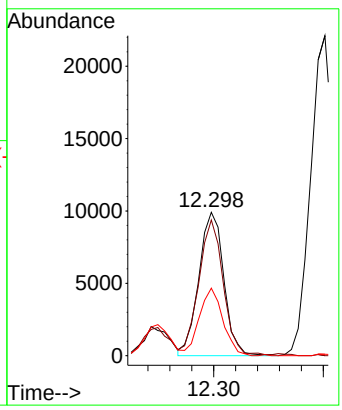


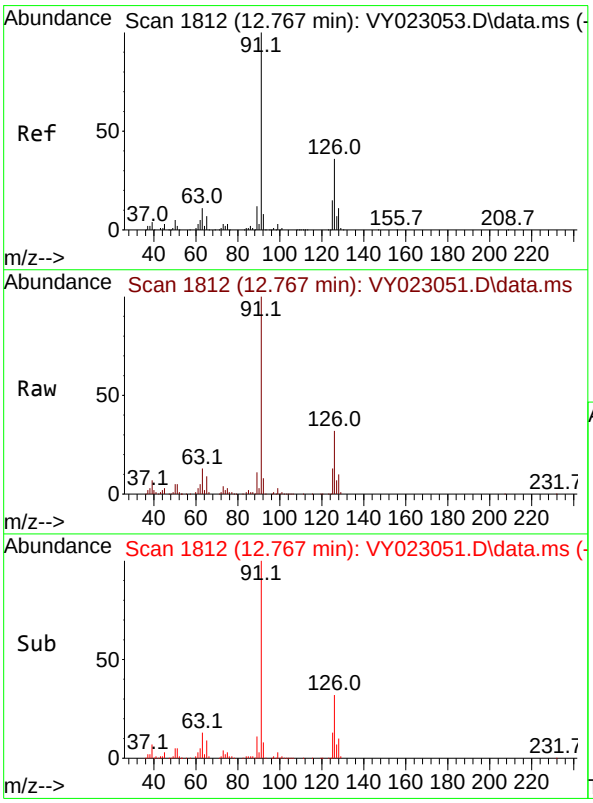
#81
trans-1,4-Dichloro-2-butene
Concen: 10.780 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

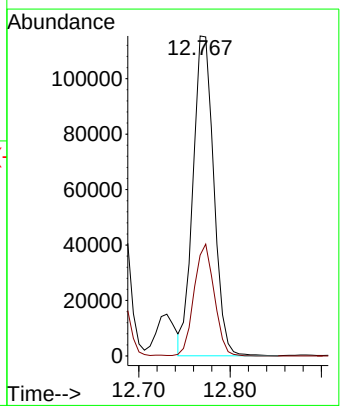


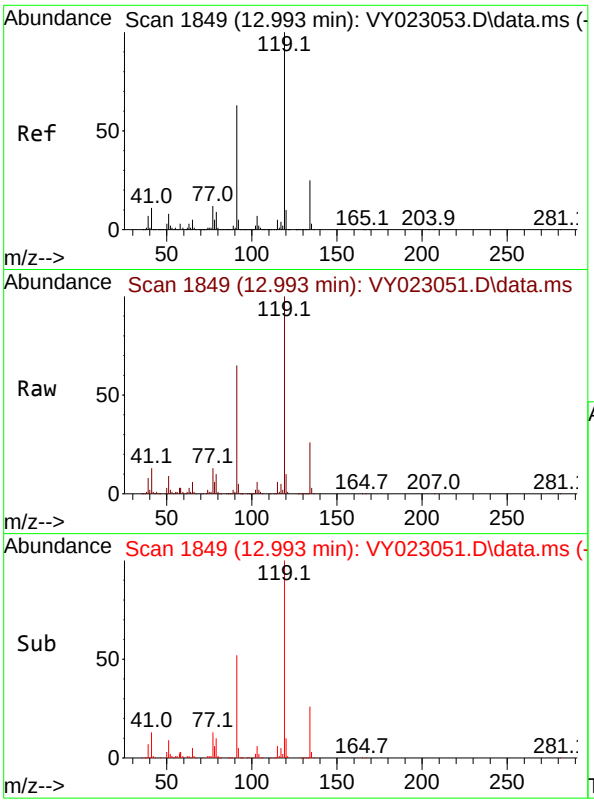


#82
4-Chlorotoluene
Concen: 9.956 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 181812

Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.3	52.0



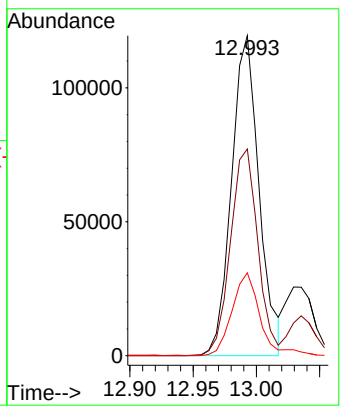


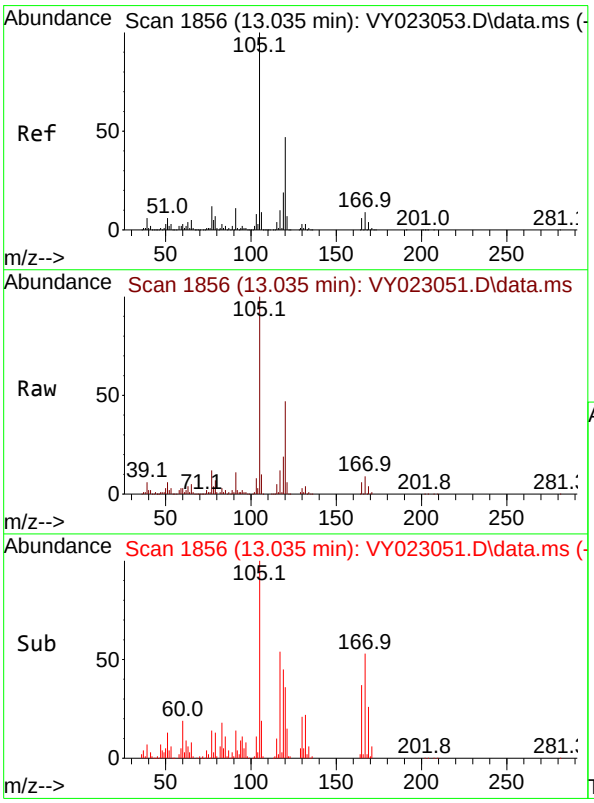
#83
tert-Butylbenzene
Concen: 9.630 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

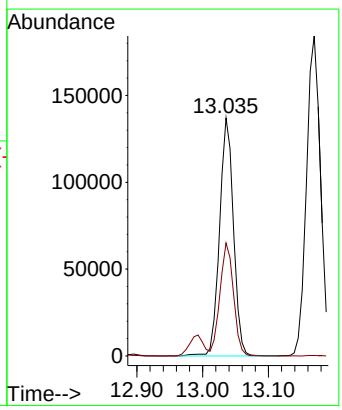


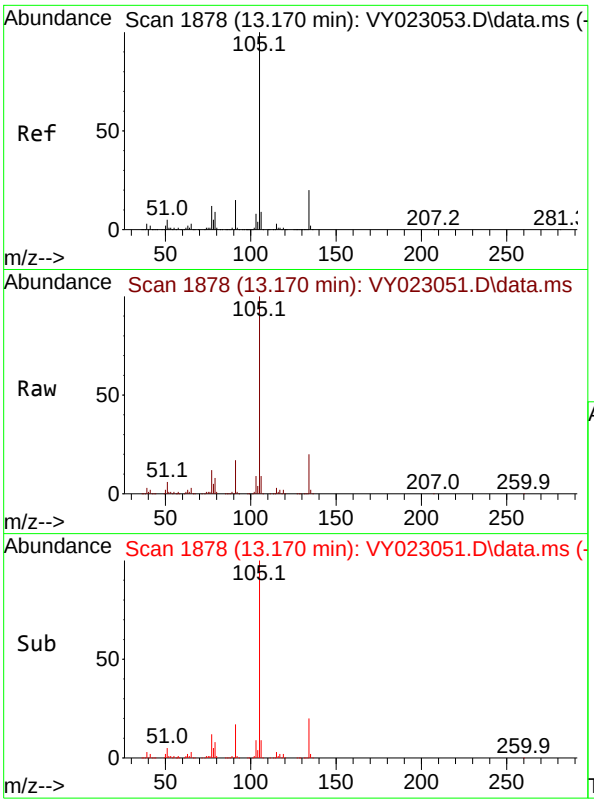


#84
1,2,4-Trimethylbenzene
Concen: 9.720 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 201812

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.0	69.0



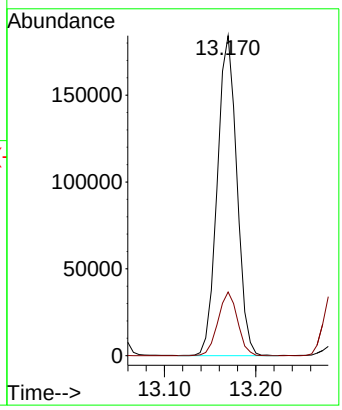


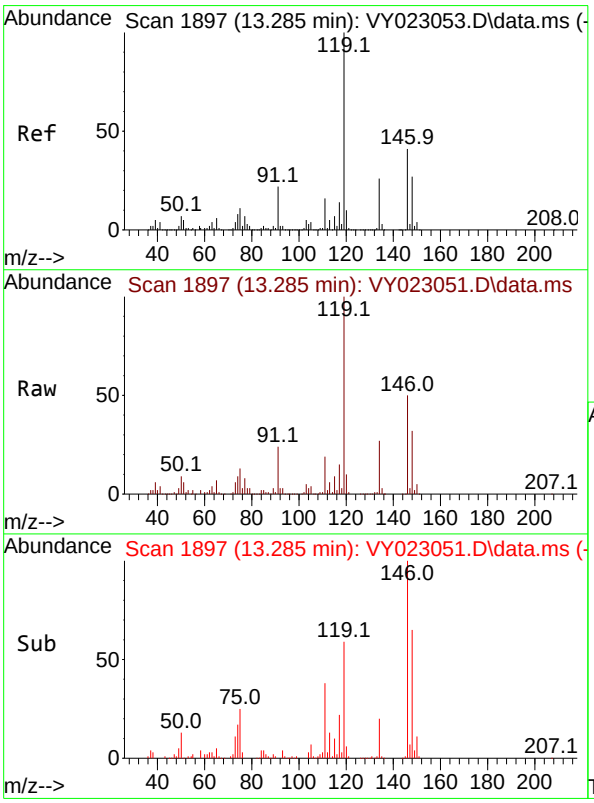
#85
sec-Butylbenzene
Concen: 9.908 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 274178

Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.2	30.4

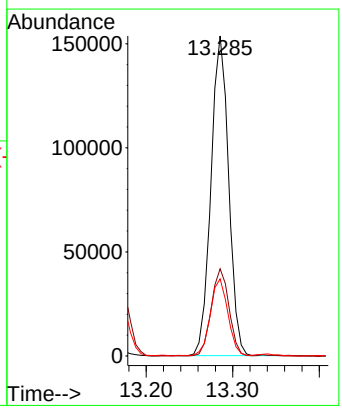


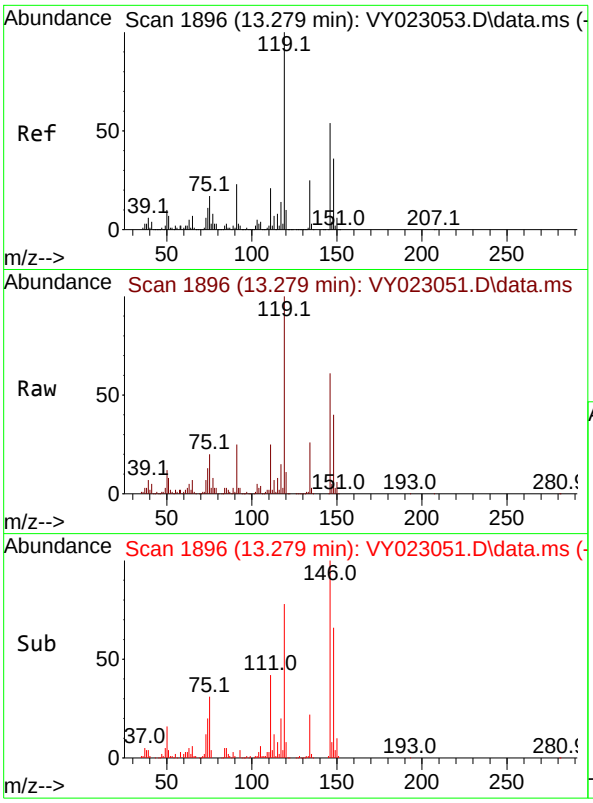


#86
p-Isopropyltoluene
Concen: 9.482 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



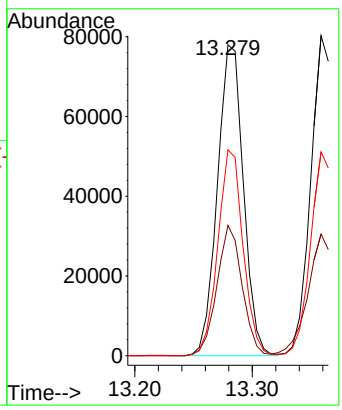


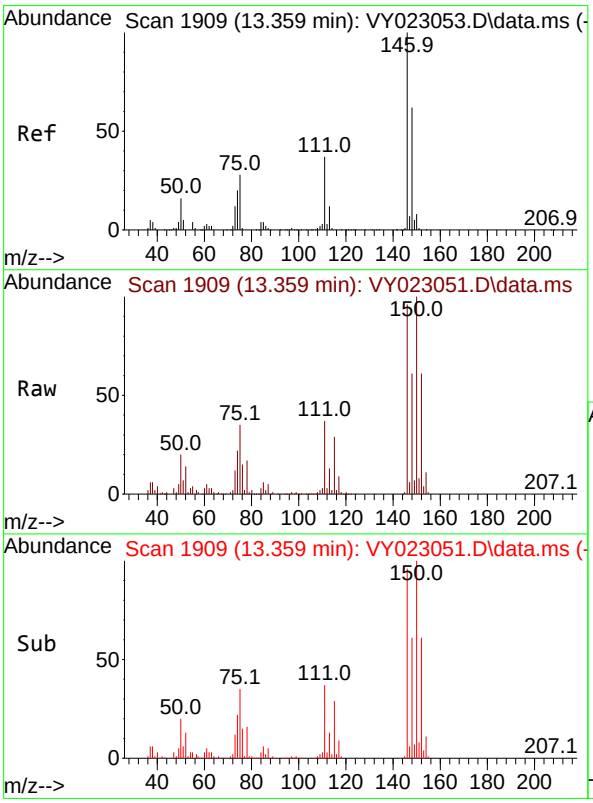
#87
1,3-Dichlorobenzene
Concen: 9.893 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

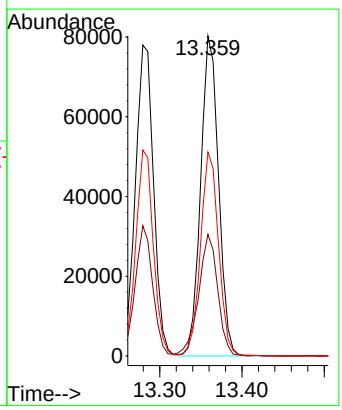


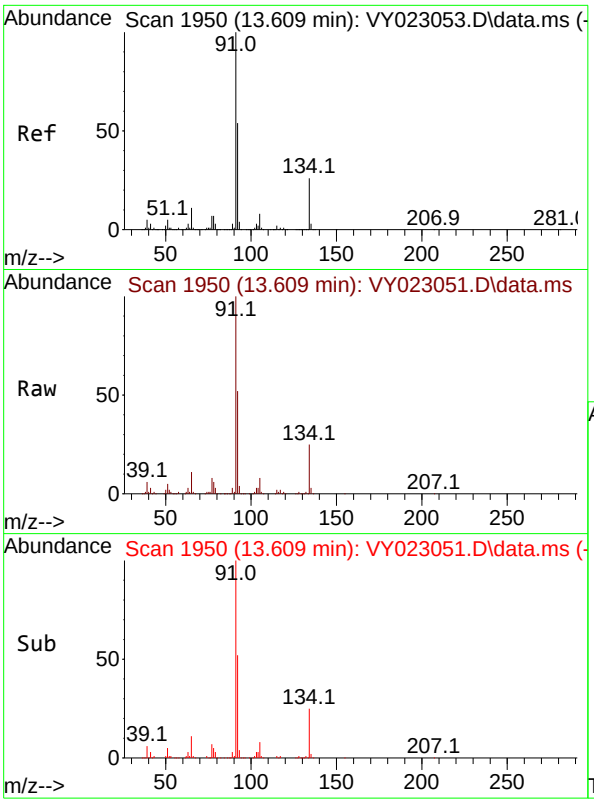


#88
1,4-Dichlorobenzene
Concen: 10.060 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



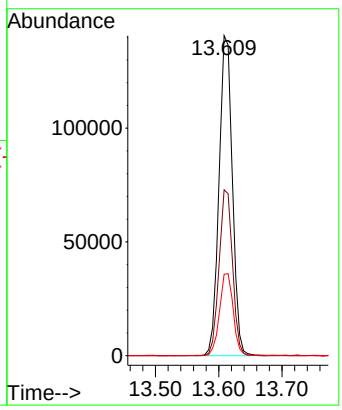


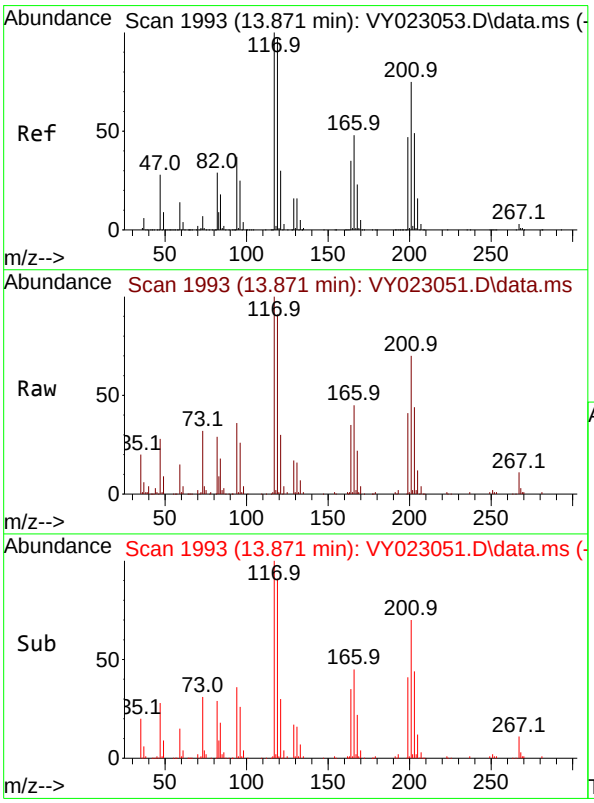
#89
n-Butylbenzene
Concen: 9.737 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

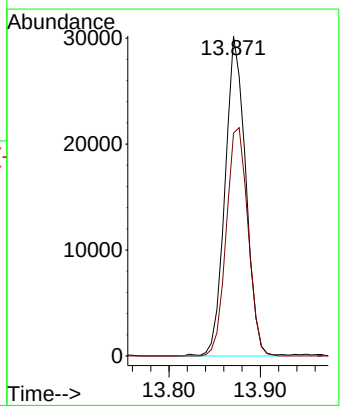


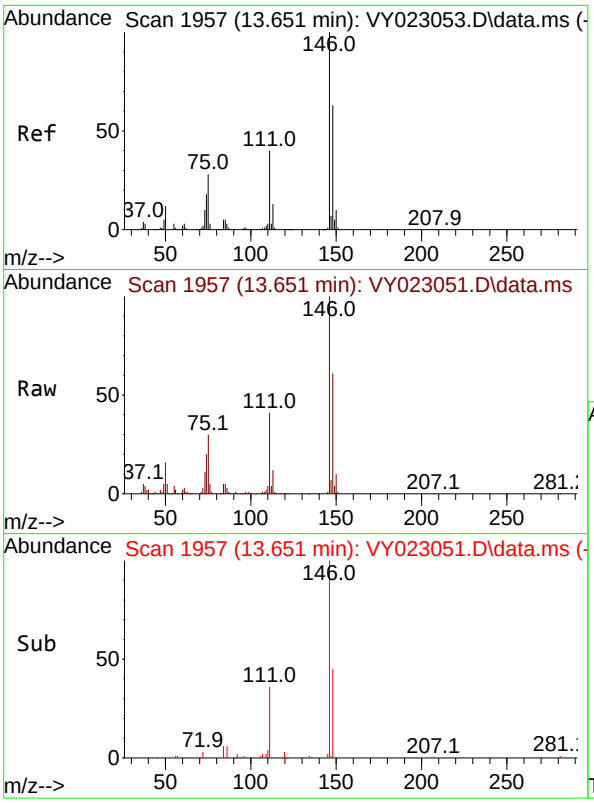


#90
Hexachloroethane
Concen: 10.071 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 47353

Ion	Ratio	Lower	Upper
117	100		
201	75.3	38.4	115.1



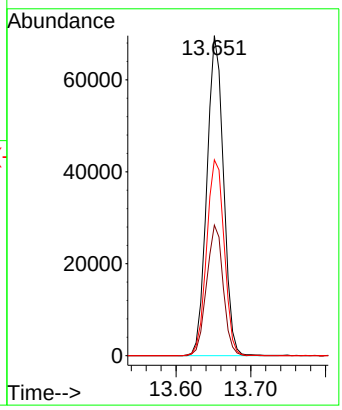


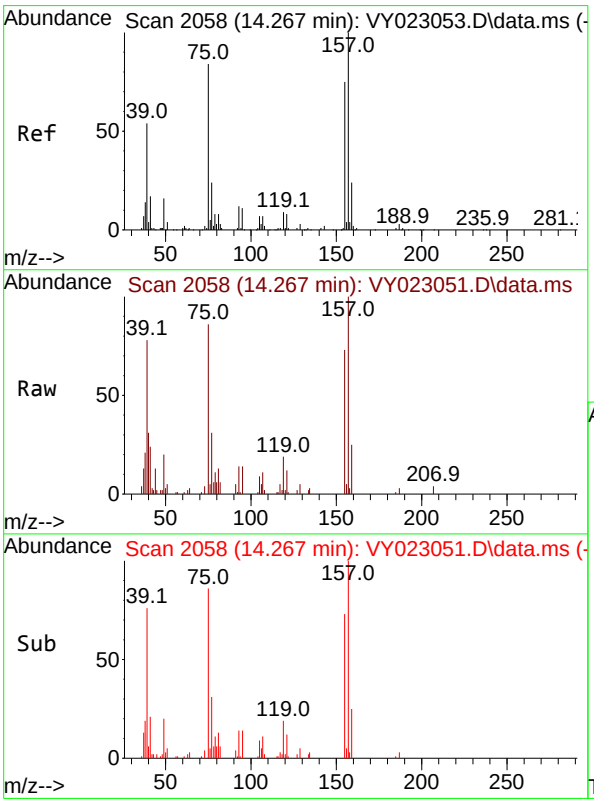
#91
1,2-Dichlorobenzene
Concen: 10.110 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

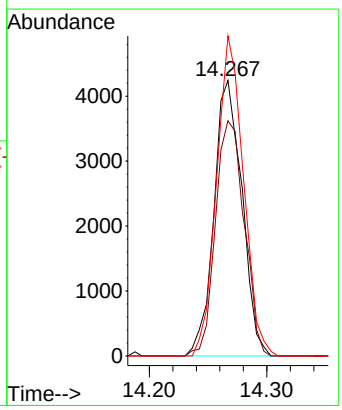


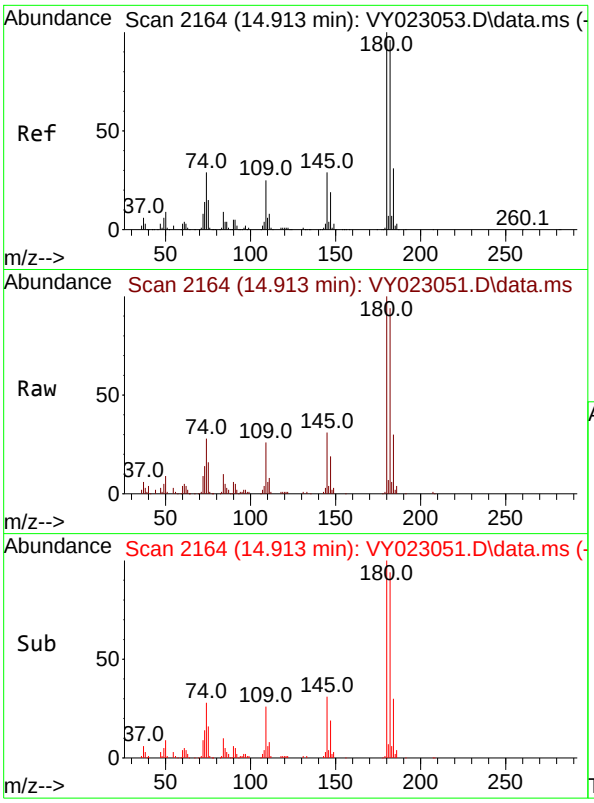


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.250 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



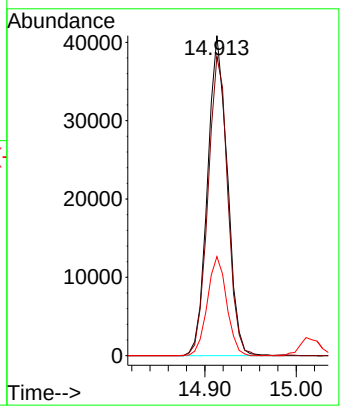


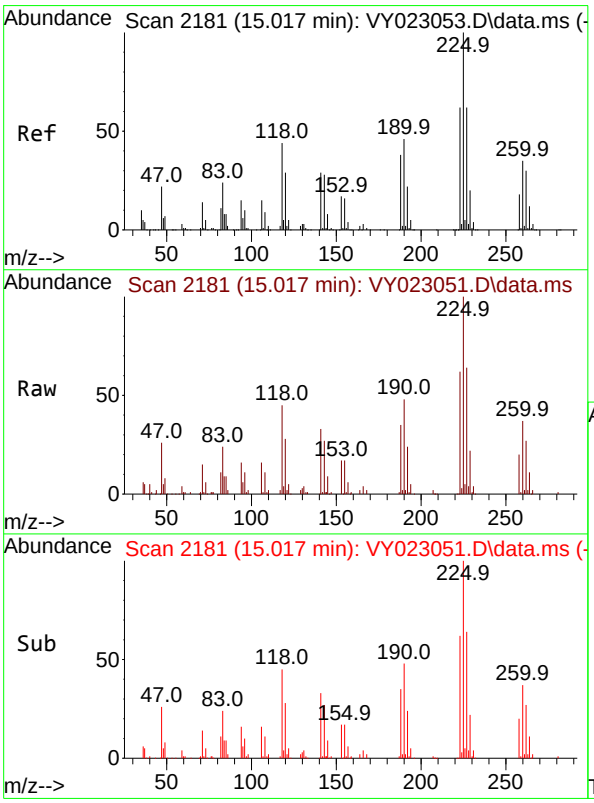
#93
1,2,4-Trichlorobenzene
Concen: 9.739 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

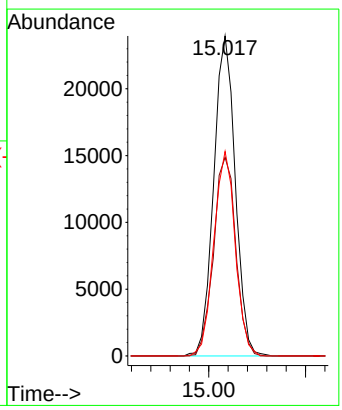


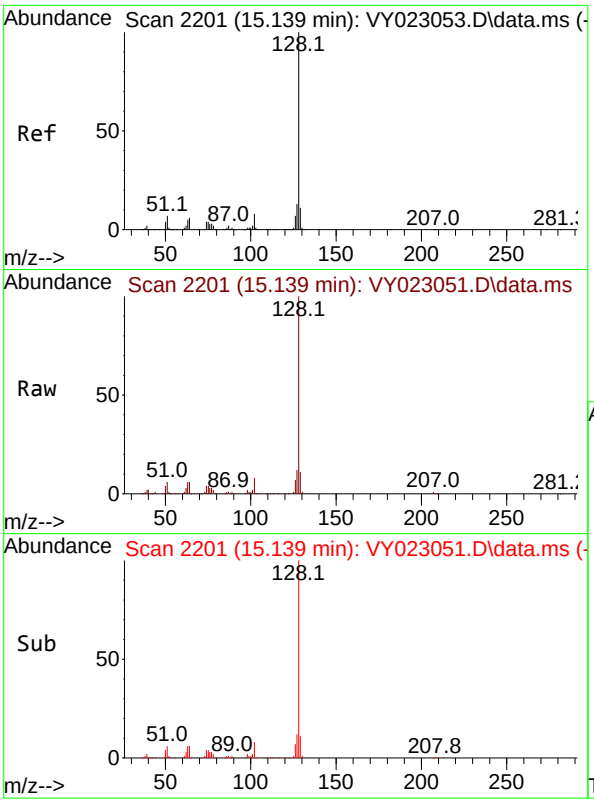


#94
Hexachlorobutadiene
Concen: 10.003 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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



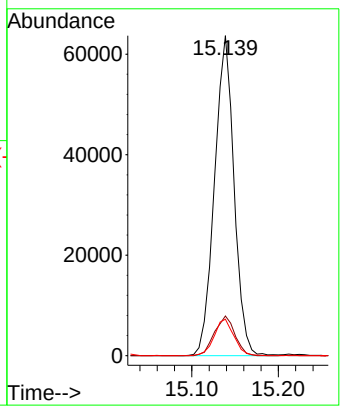


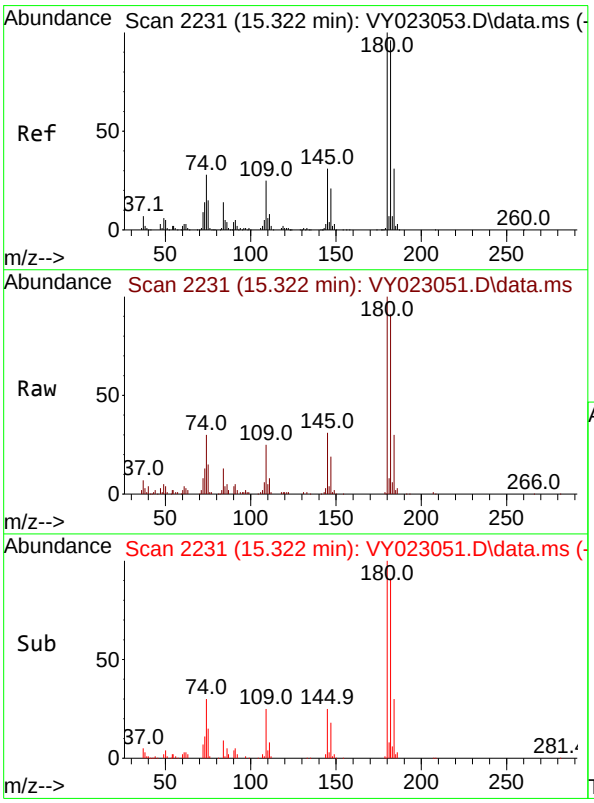
#95
Naphthalene
Concen: 9.293 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

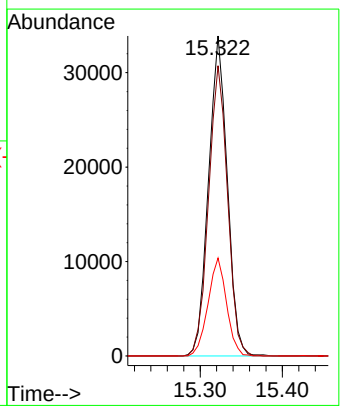




#96
1,2,3-Trichlorobenzene
Concen: 9.883 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

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

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

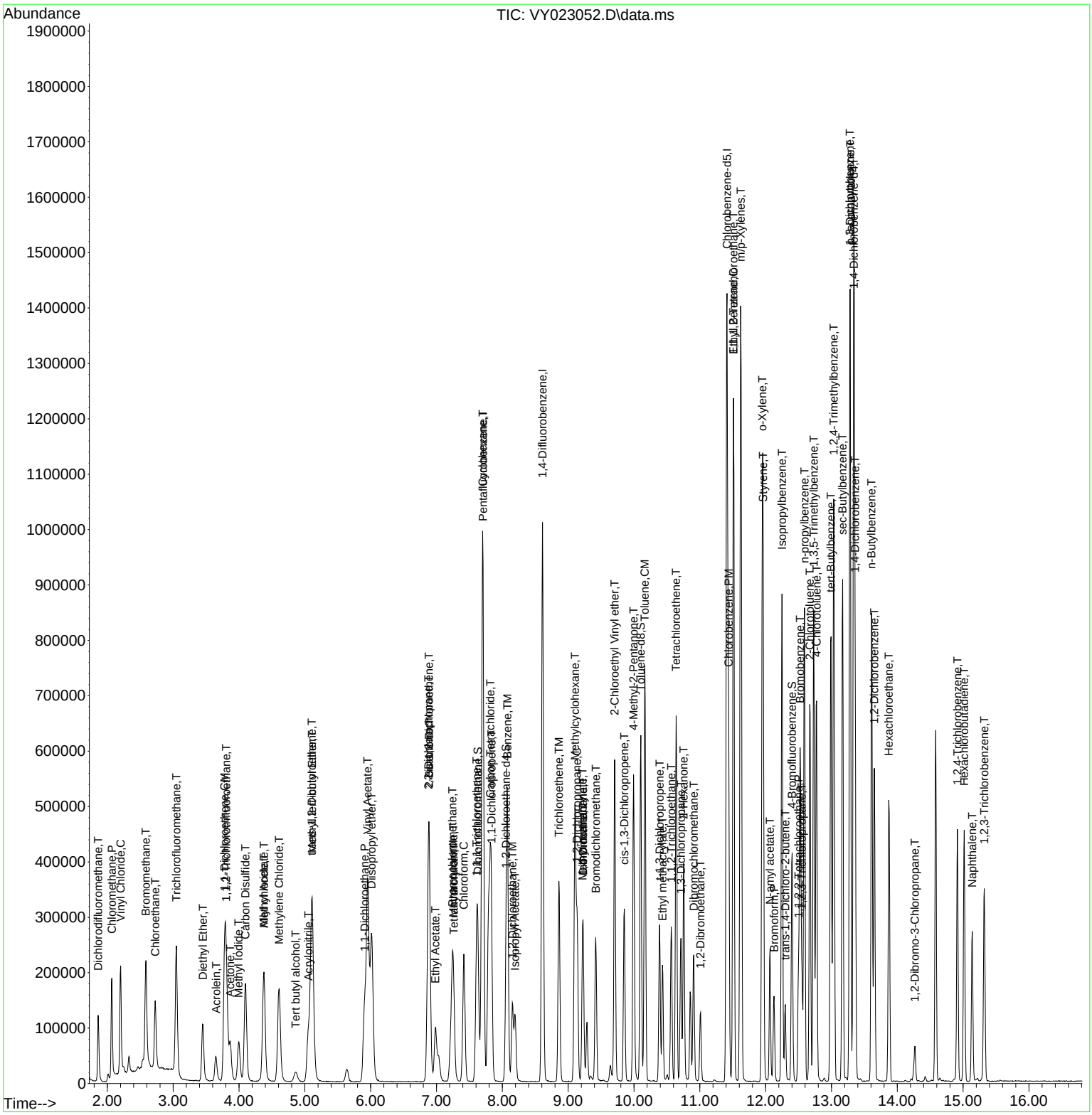
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

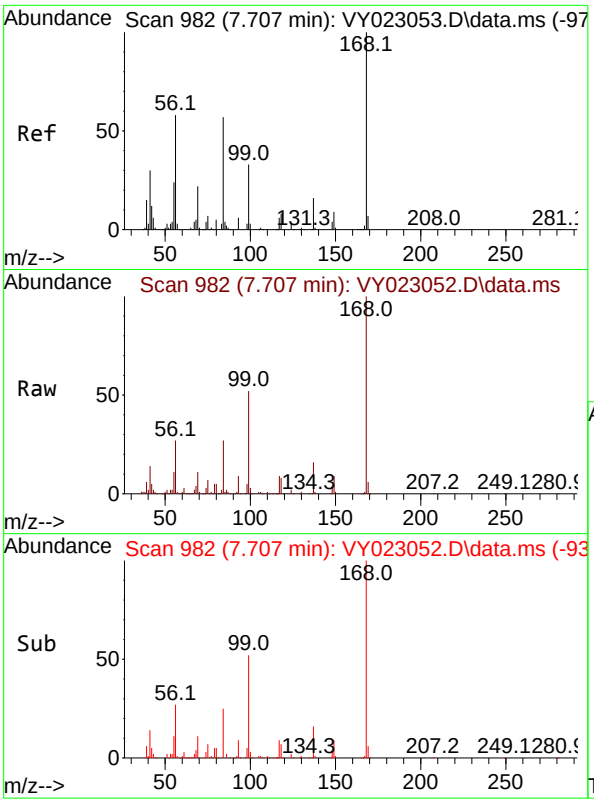
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



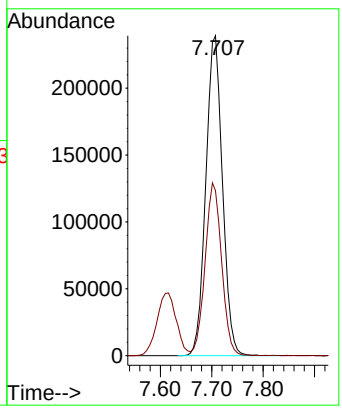


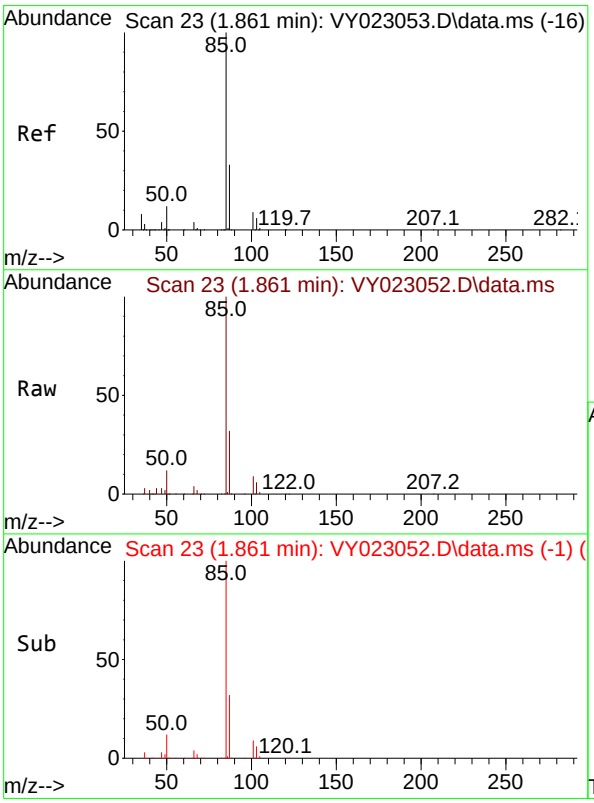
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 537748

Ion	Ratio	Lower	Upper
168	100		
99	51.5	42.8	64.2

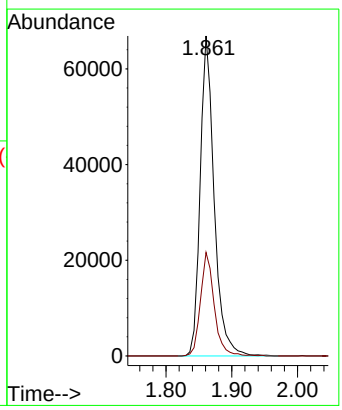


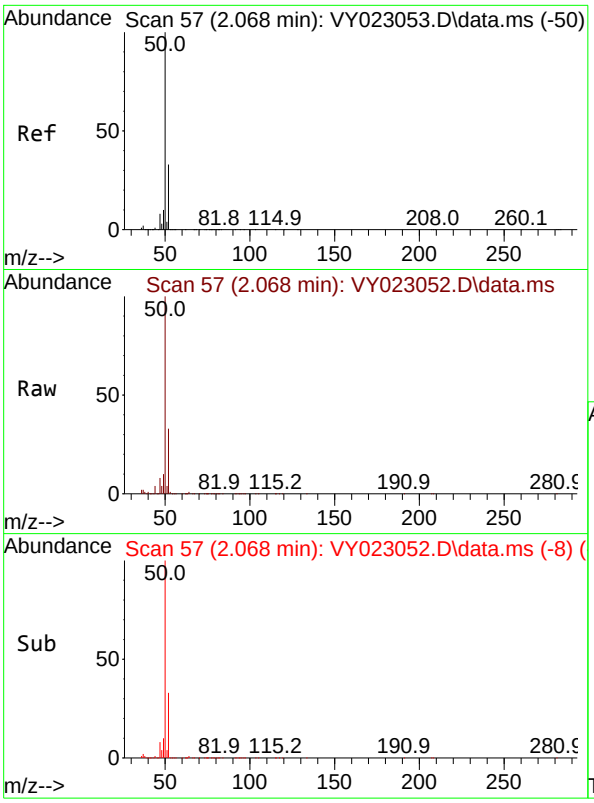


#2
Dichlorodifluoromethane
Concen: 22.537 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 85 Resp: 98926

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8



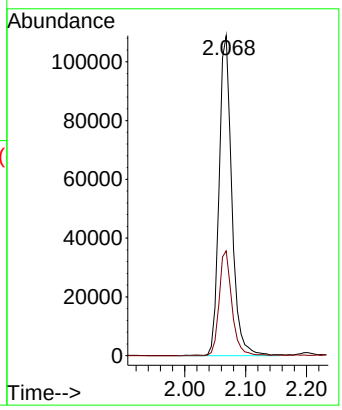


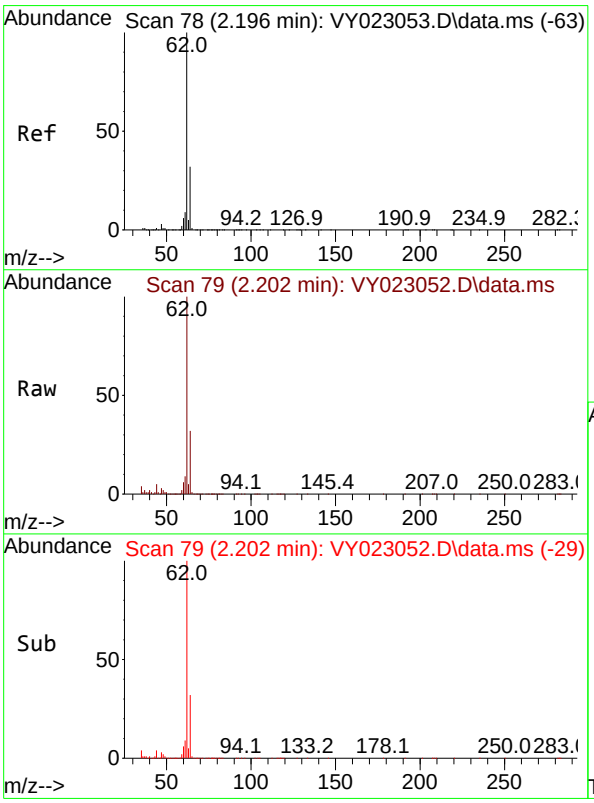
#3
Chloromethane
Concen: 22.268 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 158310

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.7	40.1

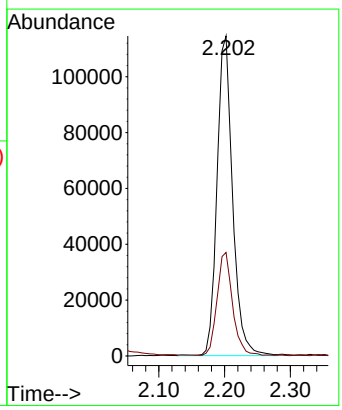


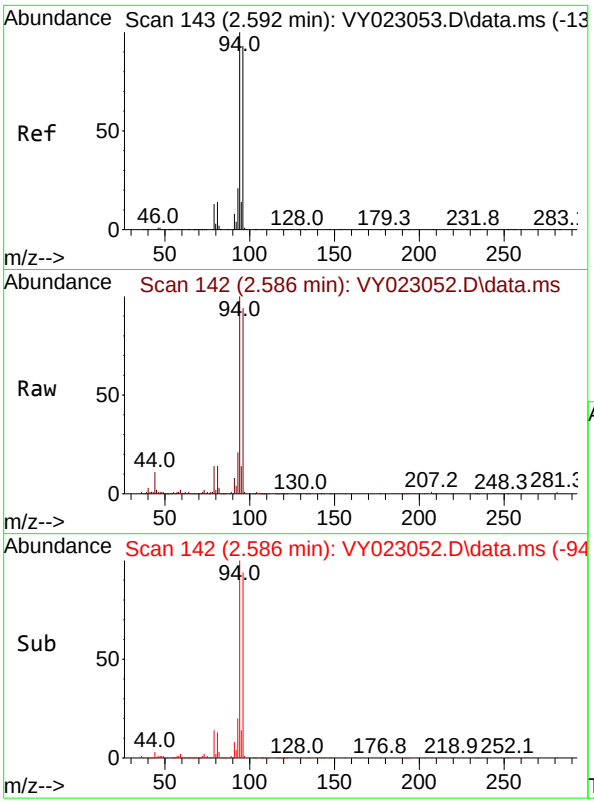


#4
Vinyl Chloride
Concen: 21.427 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 188307

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.4	38.0



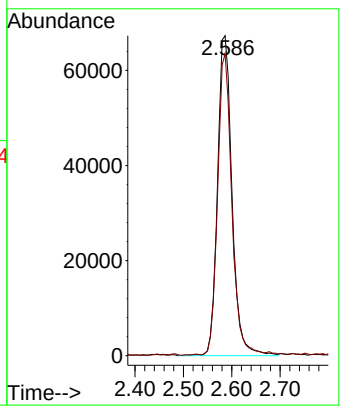


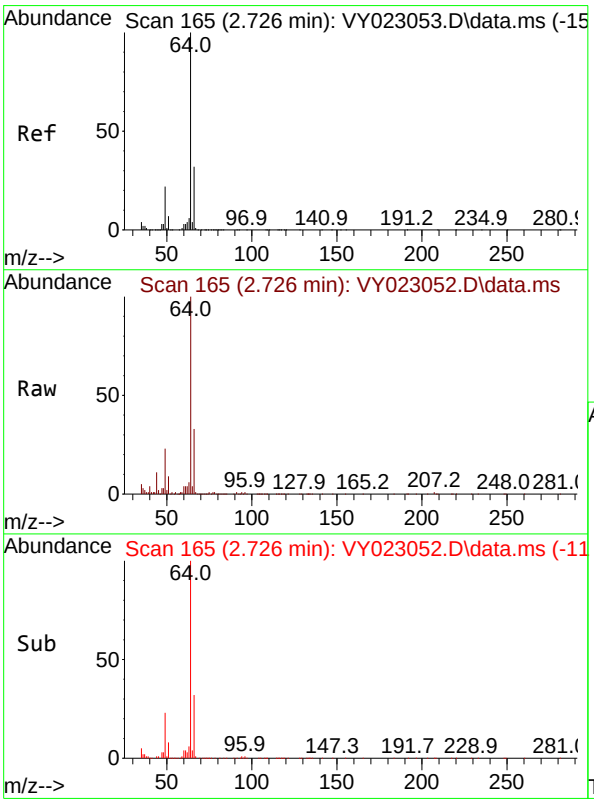
#5
Bromomethane
Concen: 21.410 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 140517

Ion	Ratio	Lower	Upper
94	100		
96	94.1	74.6	112.0

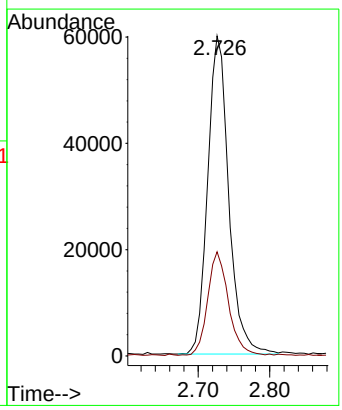


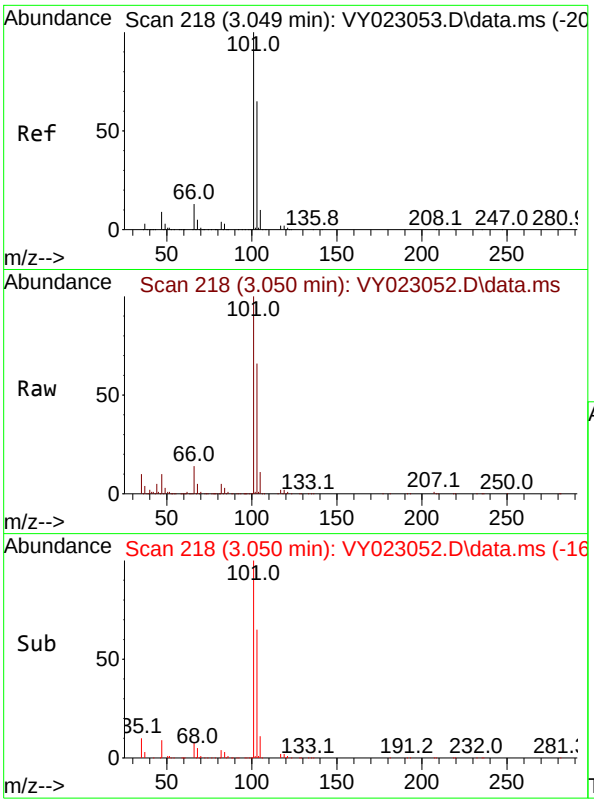


#6
Chloroethane
Concen: 20.934 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 64 Resp: 122310

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.8	38.6



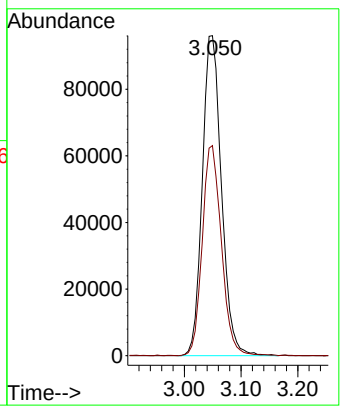


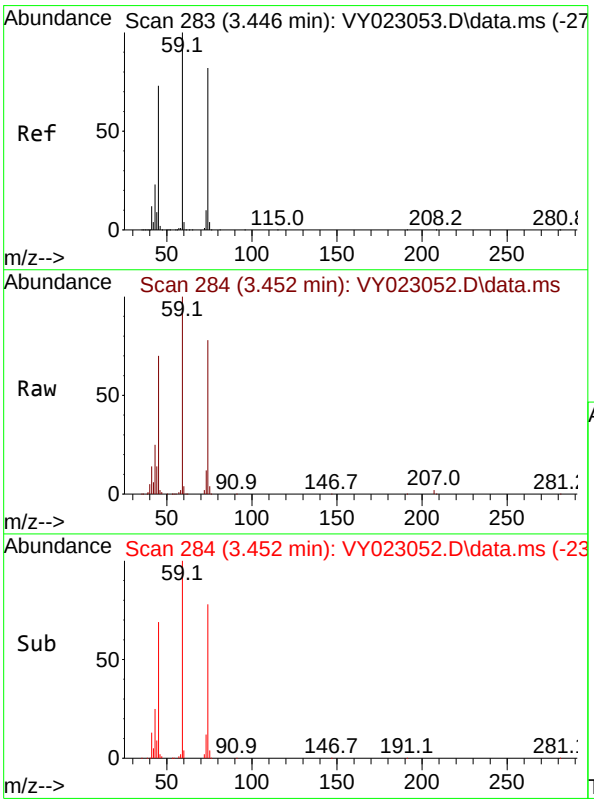
#7
Trichlorofluoromethane
Concen: 21.090 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 225373

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.9	77.9

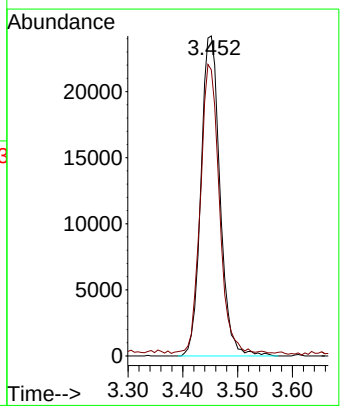


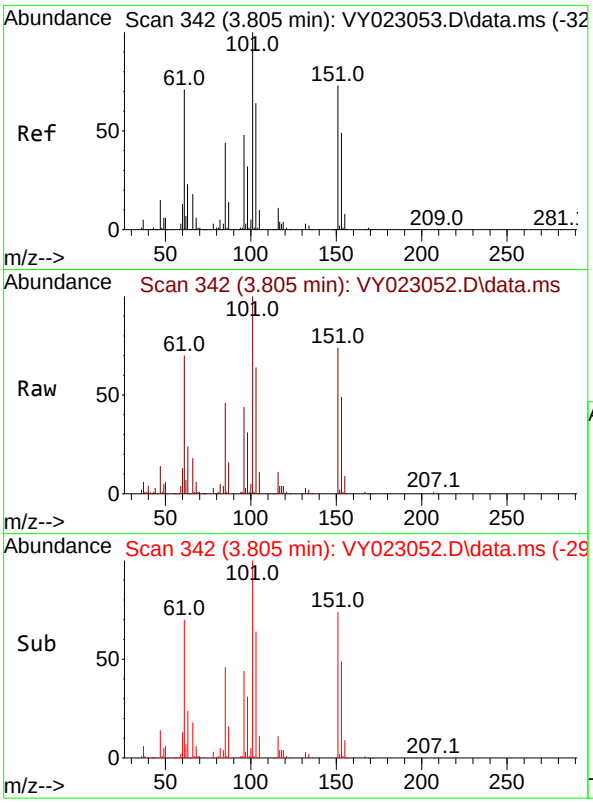


#8
Diethyl Ether
Concen: 20.602 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 74 Resp: 58245

Ion	Ratio	Lower	Upper
74	100		
45	89.8	44.4	133.2



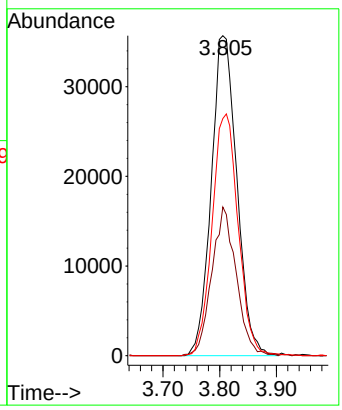


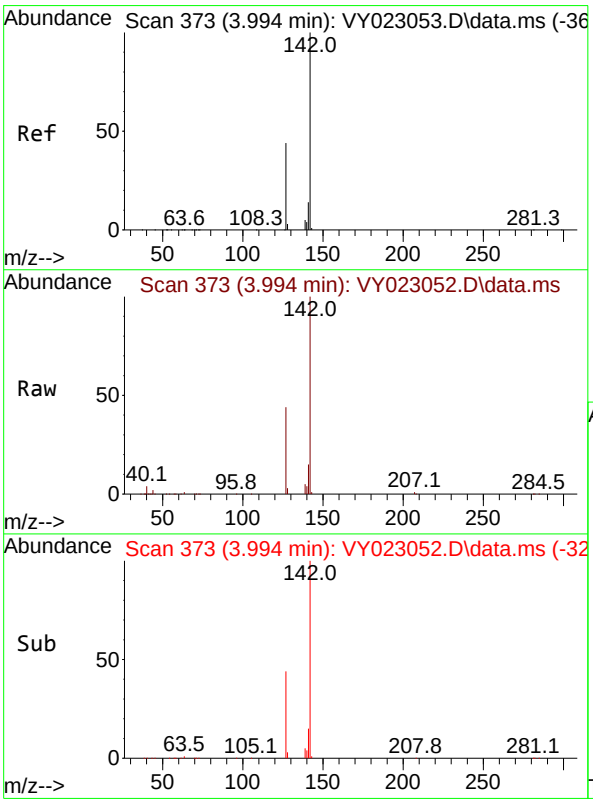
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.267 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

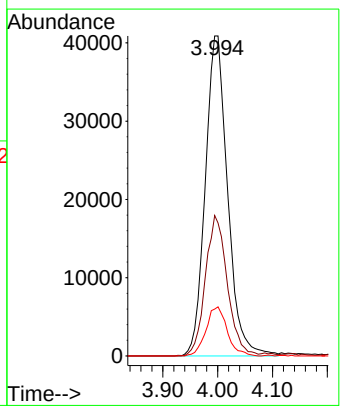


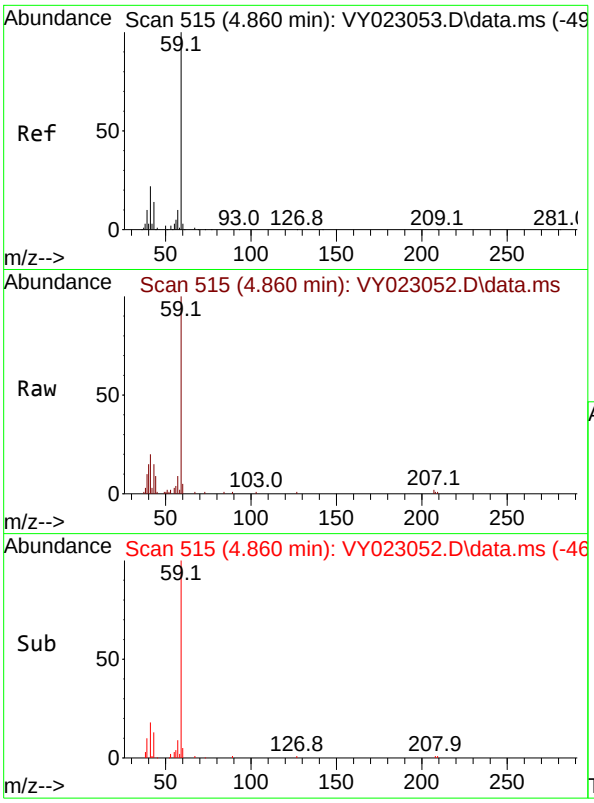


#10
Methyl Iodide
Concen: 20.370 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



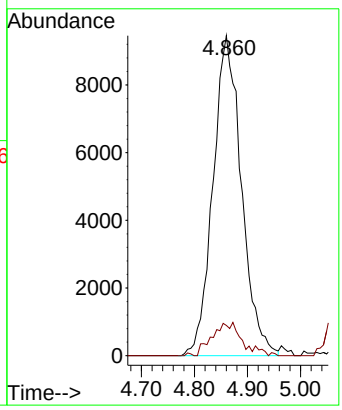


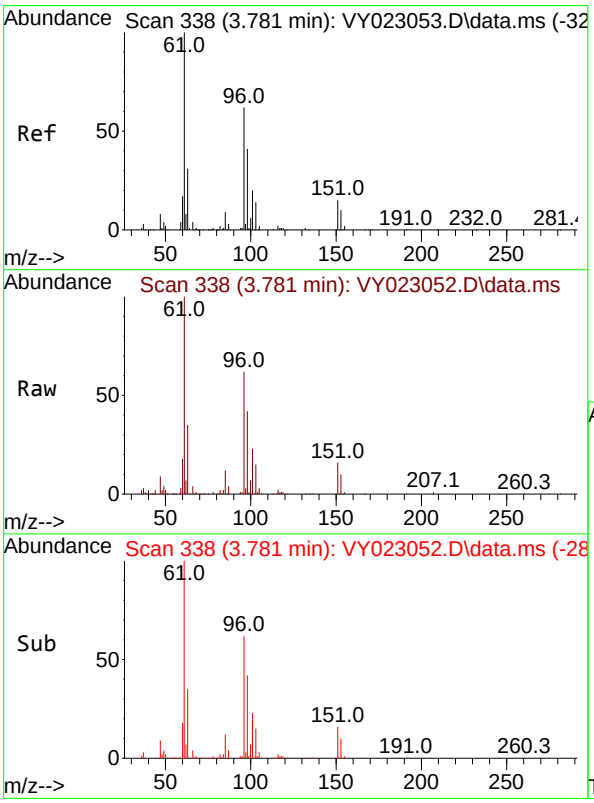
#11
Tert butyl alcohol
Concen: 100.214 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 35192

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.6	13.0

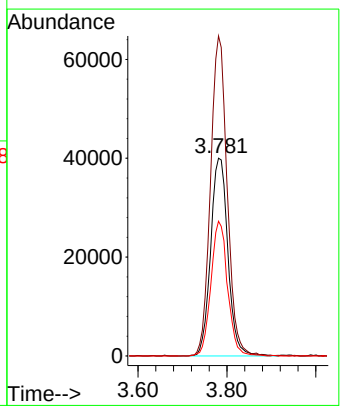


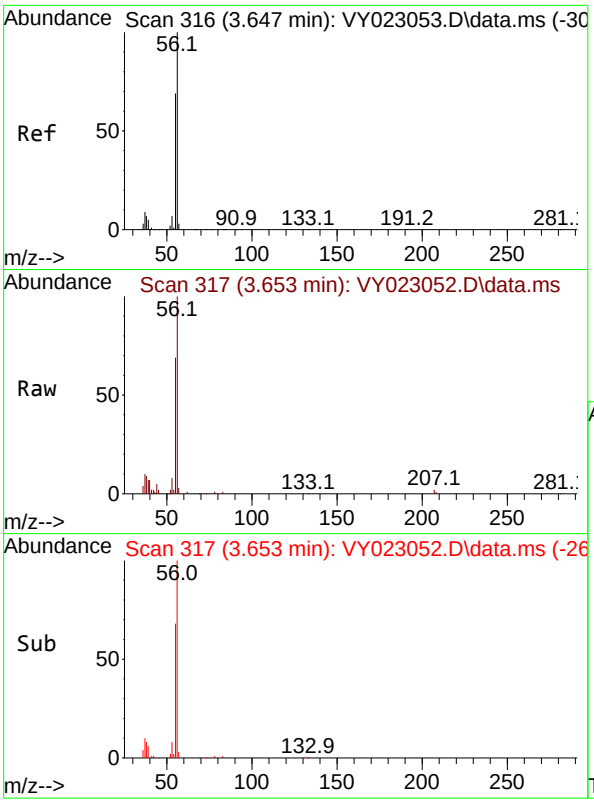


#12
1,1-Dichloroethene
Concen: 20.840 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



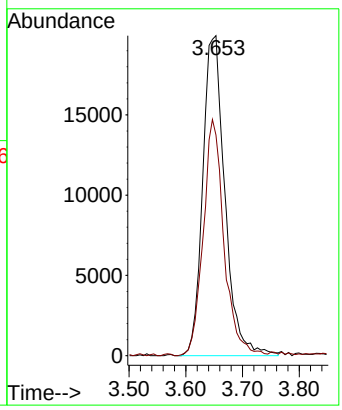


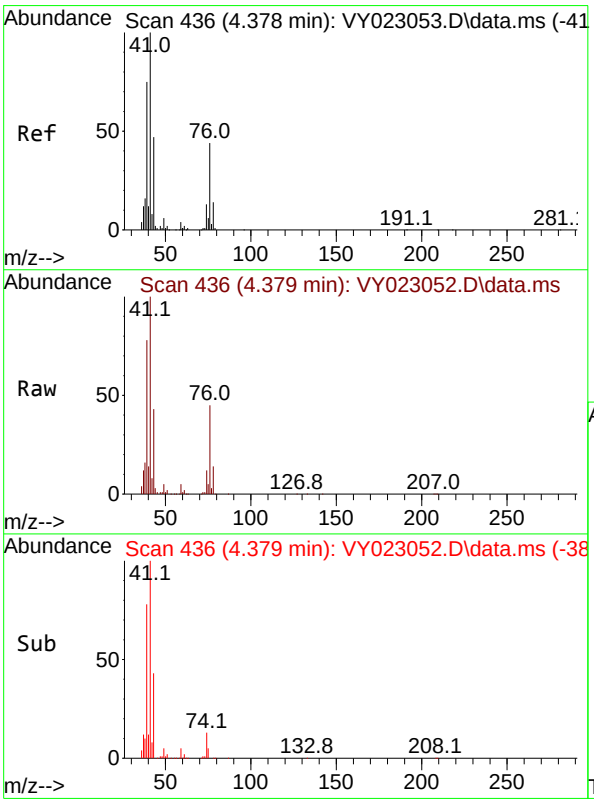
#13
Acrolein
Concen: 105.126 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 54065

Ion	Ratio	Lower	Upper
56	100		
55	69.1	55.2	82.8

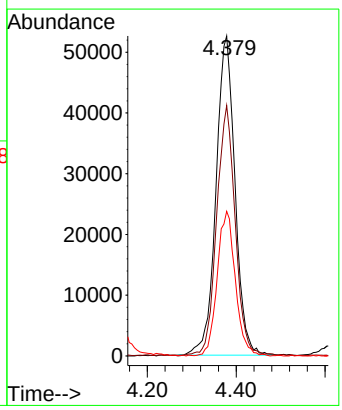


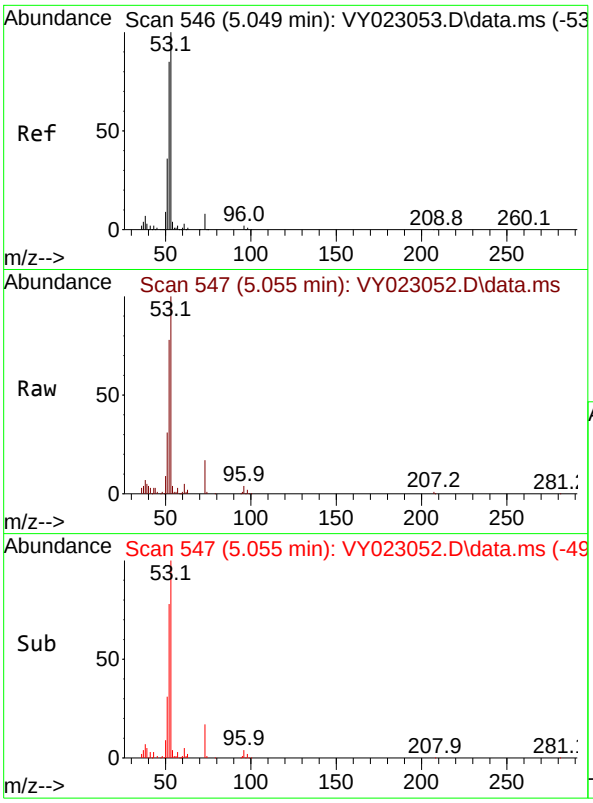


#14
Allyl chloride
Concen: 20.421 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



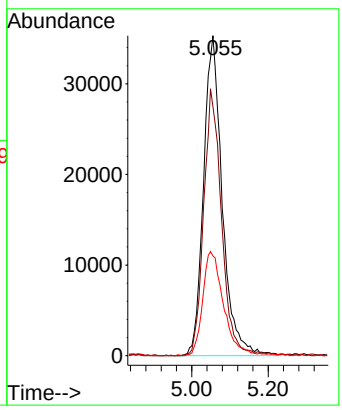


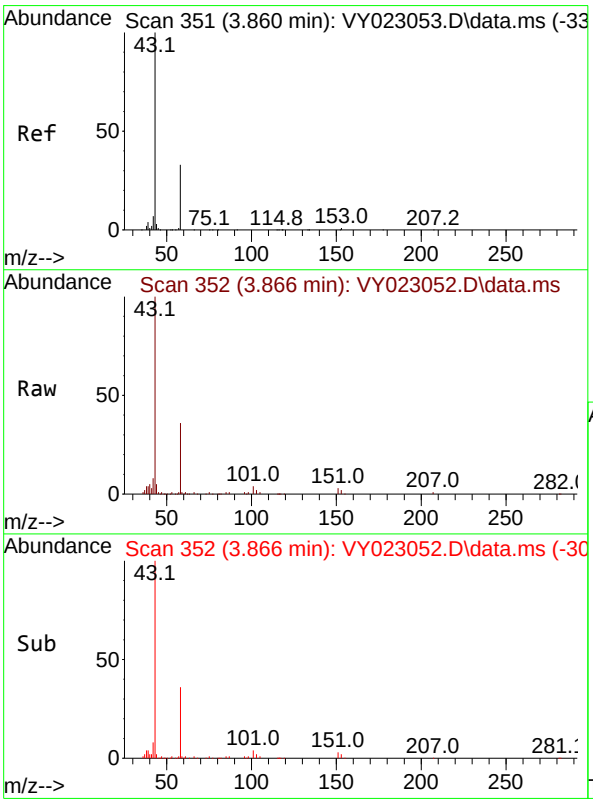
#15
Acrylonitrile
Concen: 104.535 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

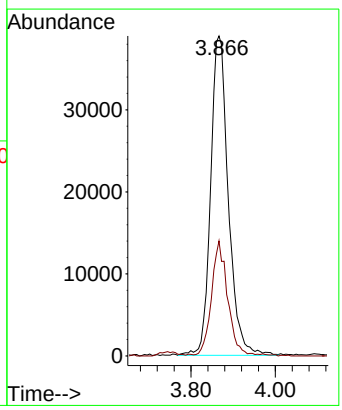


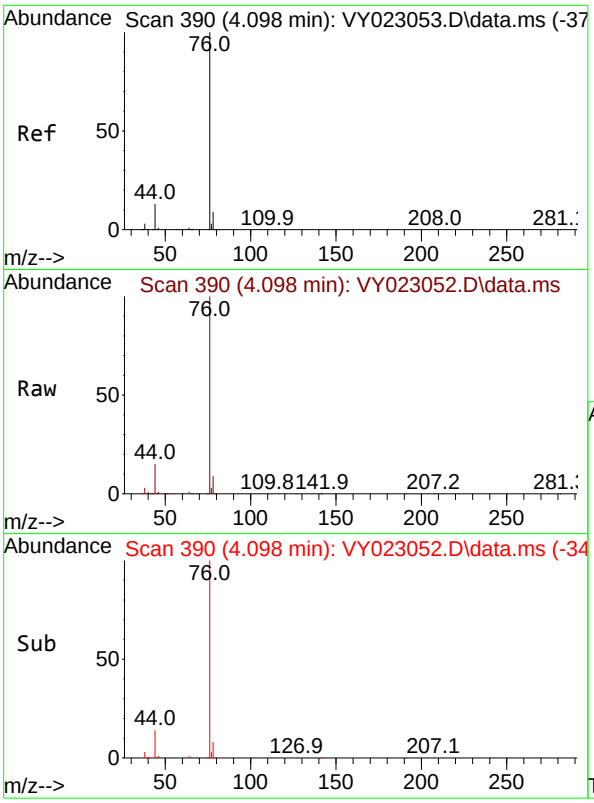


#16
Acetone
Concen: 102.193 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 113468

Ion	Ratio	Lower	Upper
43	100		
58	36.0	27.1	40.7



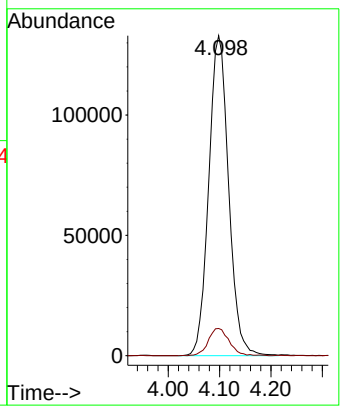


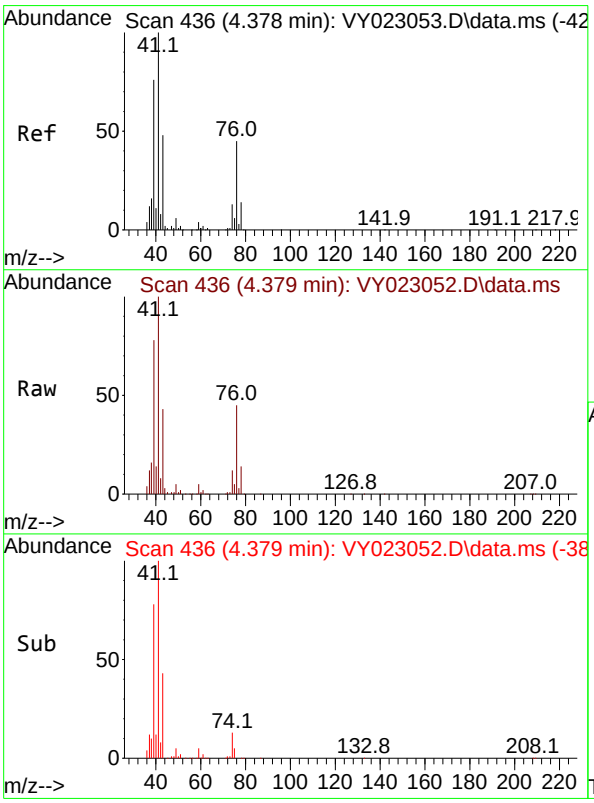
#17
Carbon Disulfide
Concen: 21.157 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 357484

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.4	11.2

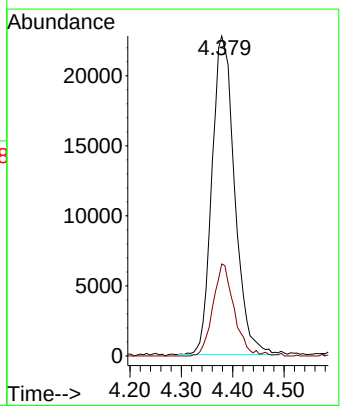


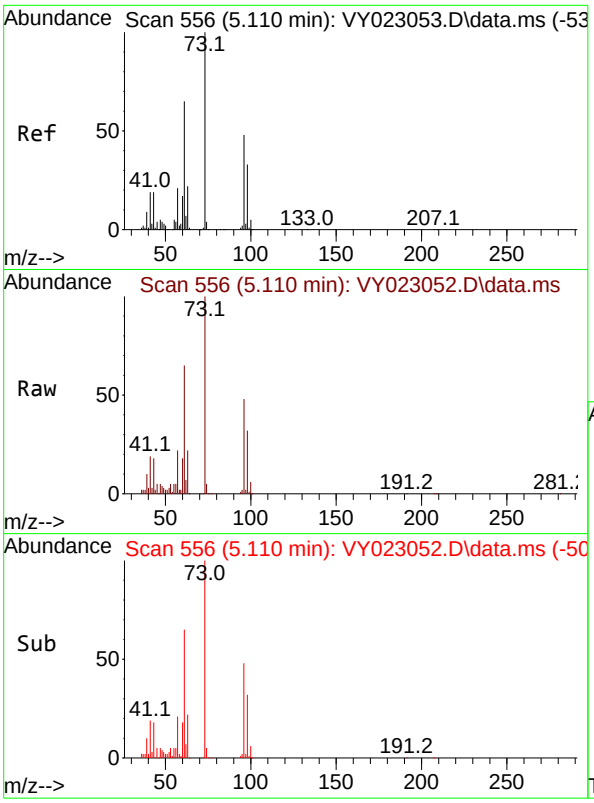


#18
Methyl Acetate
Concen: 21.141 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 69853

Ion	Ratio	Lower	Upper
43	100		
74	27.0	21.2	31.8



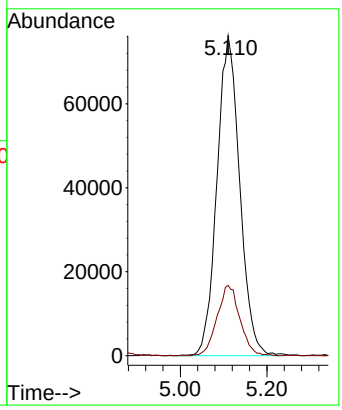


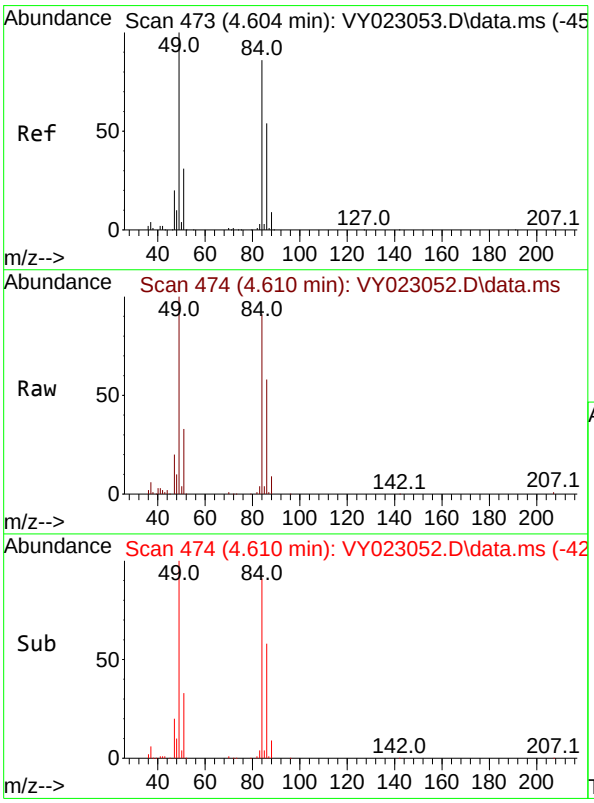
#19
Methyl tert-butyl Ether
Concen: 20.767 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 278863

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7

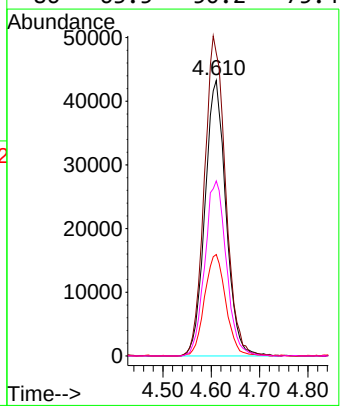


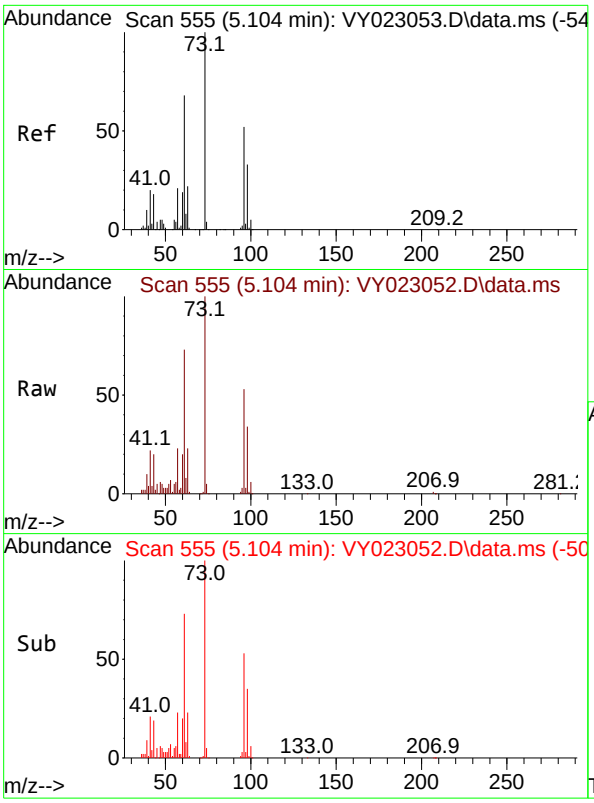


#20
Methylene Chloride
Concen: 21.069 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



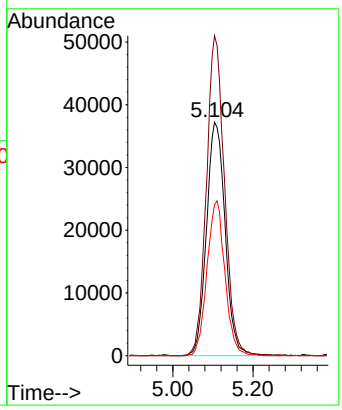


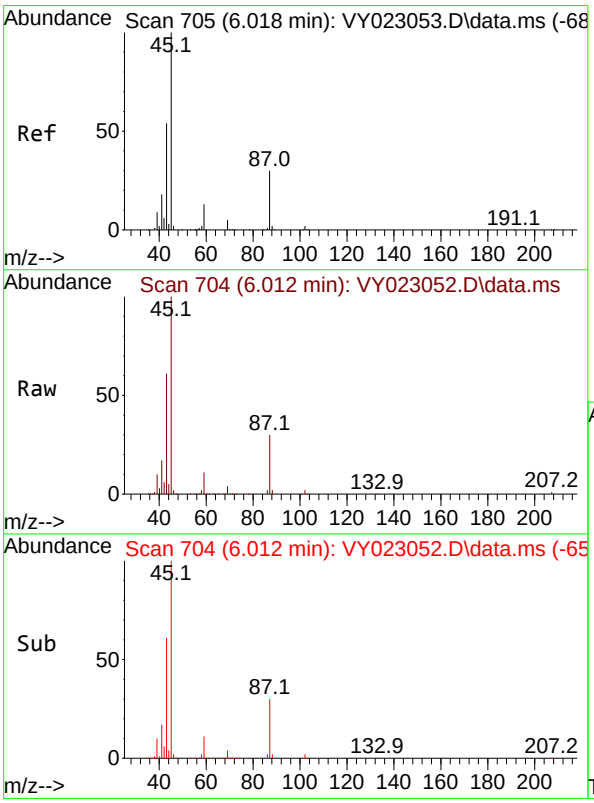
#21
trans-1,2-Dichloroethene
Concen: 20.661 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

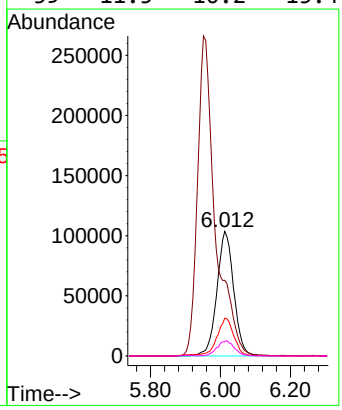


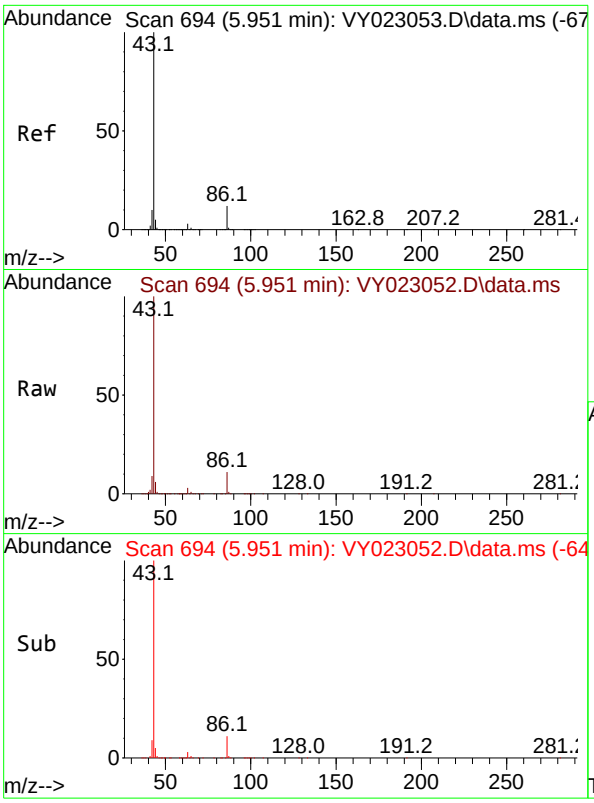


#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



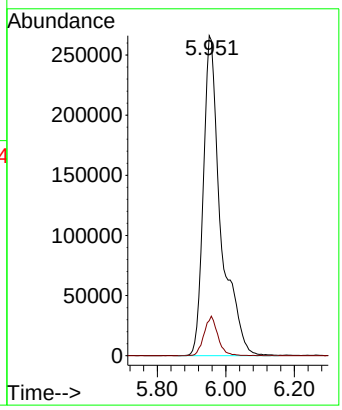


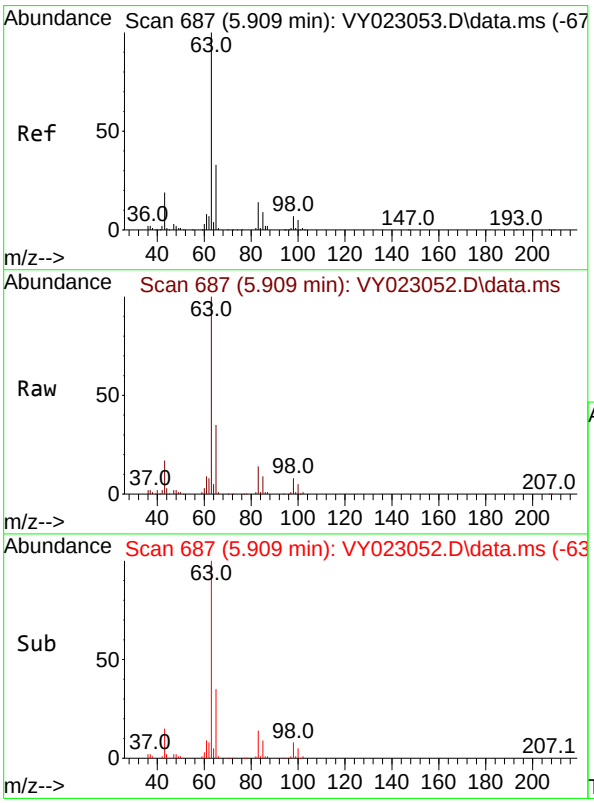
#23
Vinyl Acetate
Concen: 102.748 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 941364

Ion	Ratio	Lower	Upper
43	100		
86	11.0	9.6	14.4

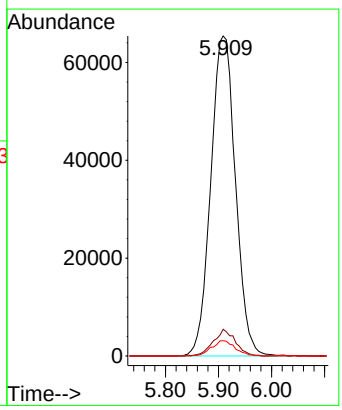


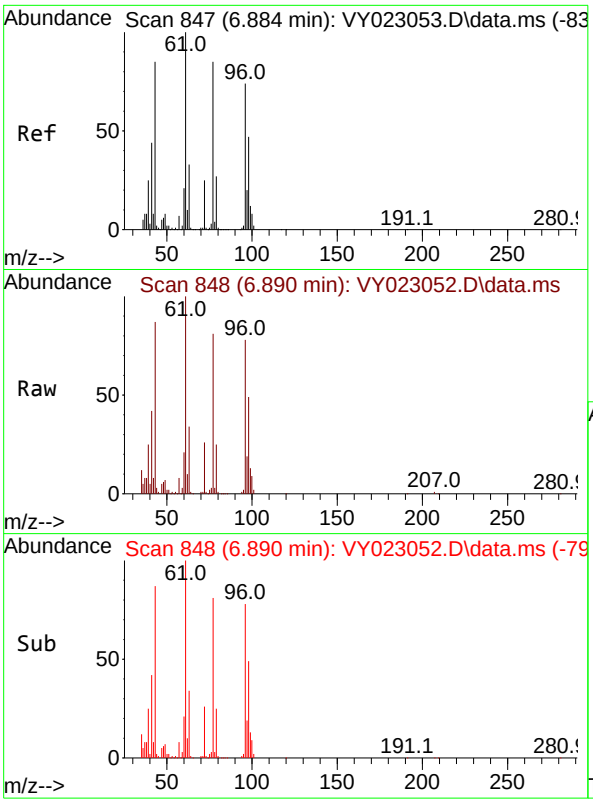


#24
1,1-Dichloroethane
Concen: 20.884 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



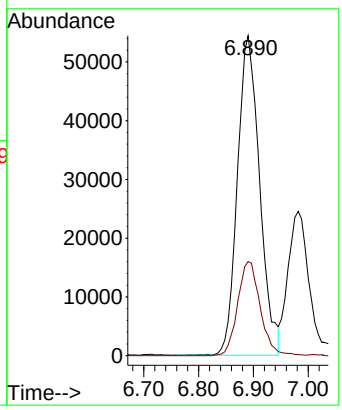


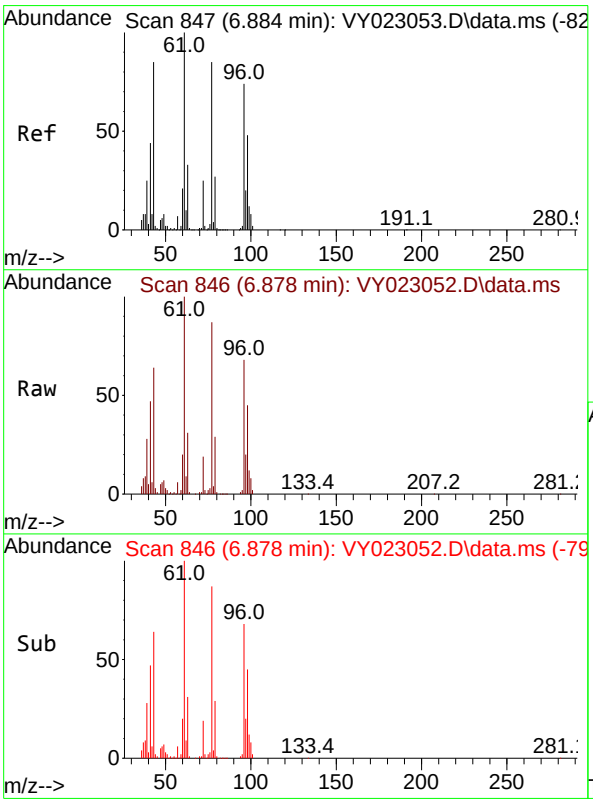
#25
2-Butanone
Concen: 101.559 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 153363

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.5	35.3

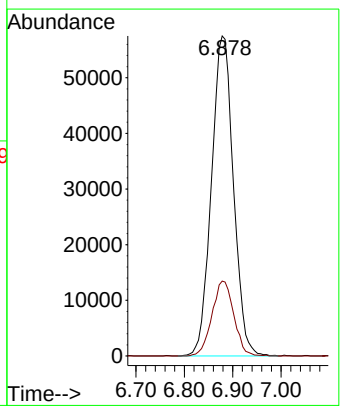


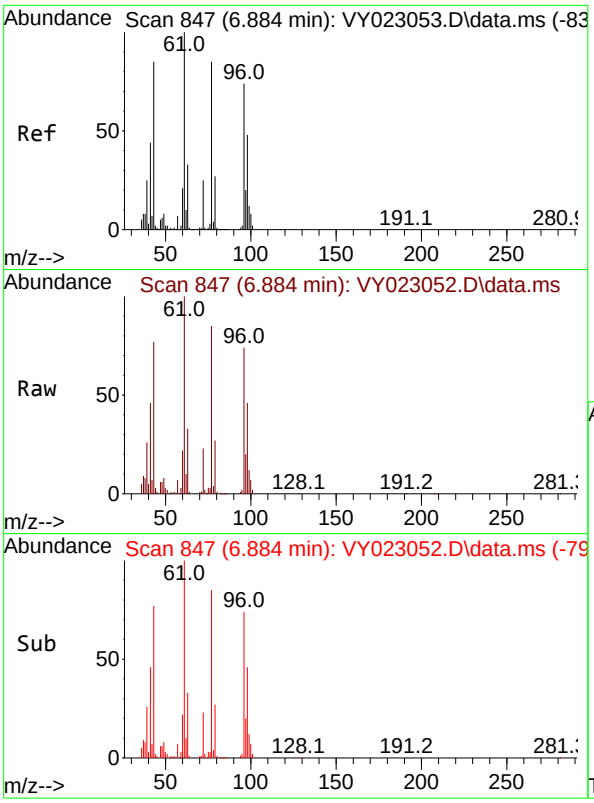


#26
2,2-Dichloropropane
Concen: 20.767 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 77 Resp: 181528

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8



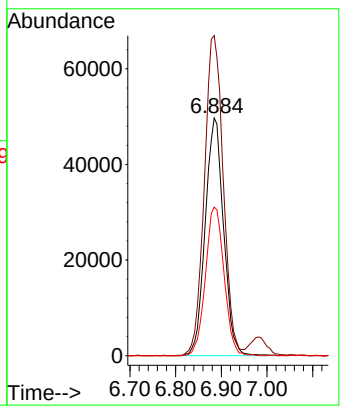


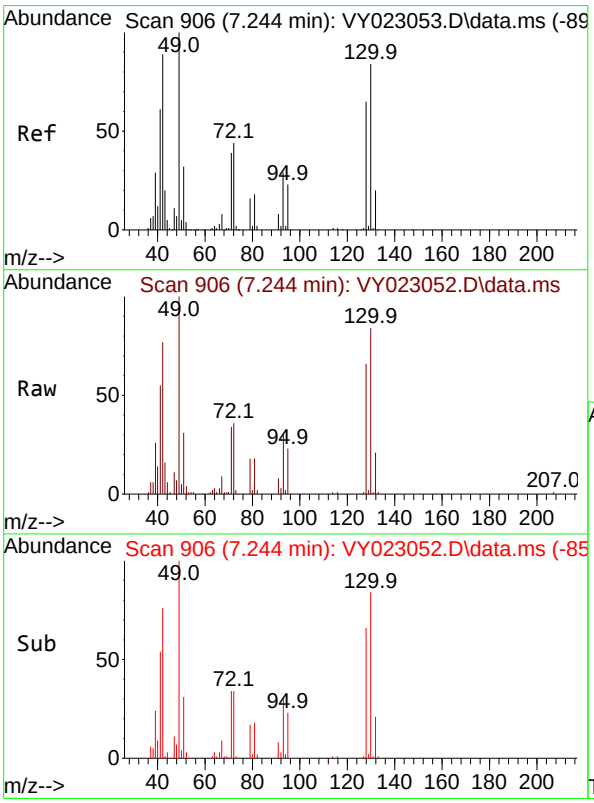
#27
cis-1,2-Dichloroethene
Concen: 20.613 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

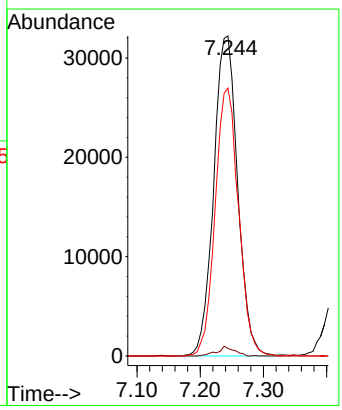


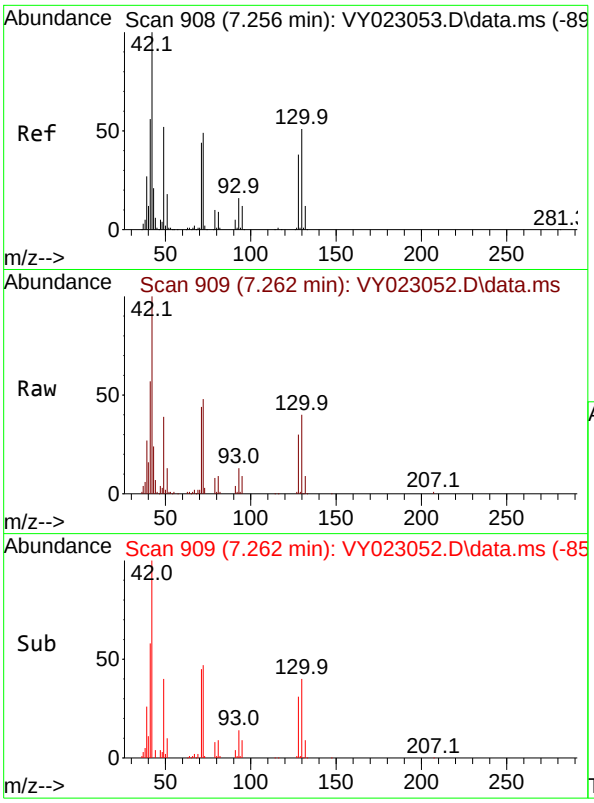


#28
Bromochloromethane
Concen: 21.035 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



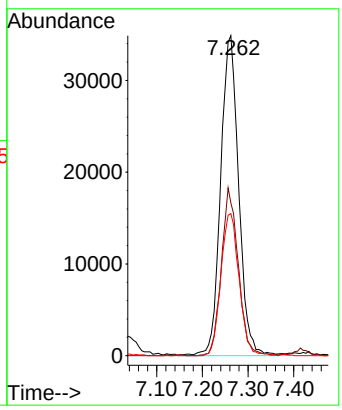


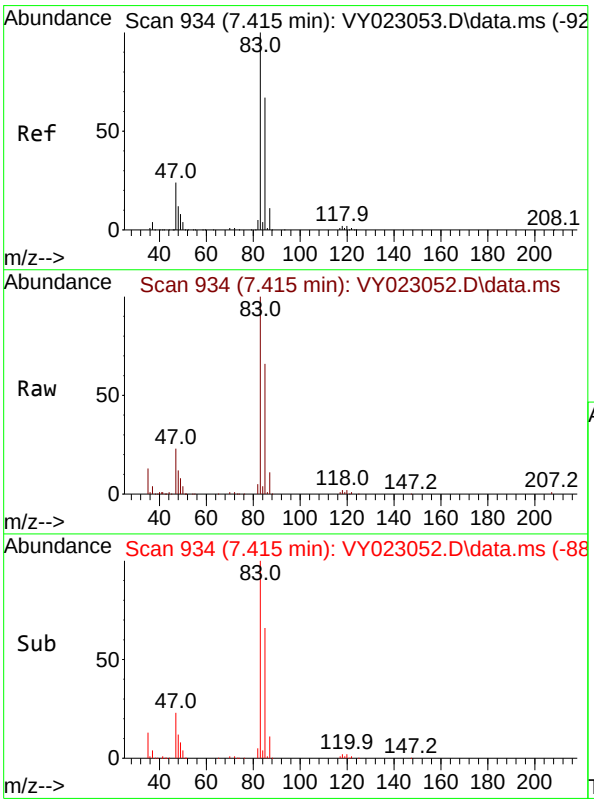
#29
Tetrahydrofuran
Concen: 102.341 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

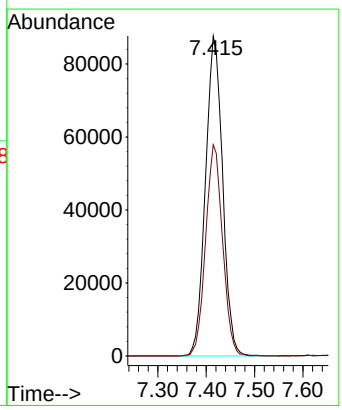


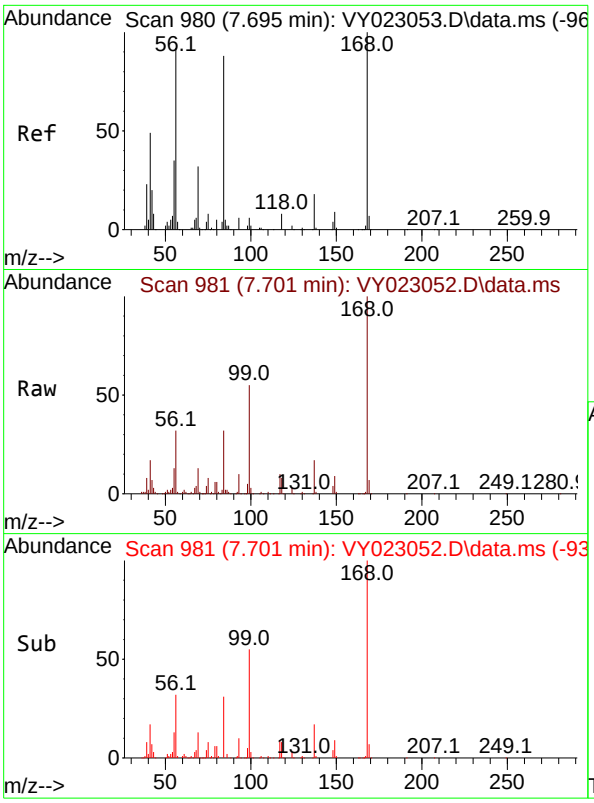


#30
Chloroform
Concen: 20.635 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 215585

Ion	Ratio	Lower	Upper
83	100		
85	66.0	53.8	80.8



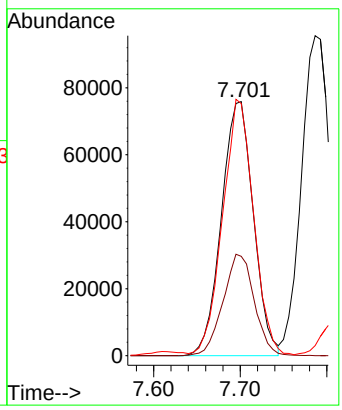


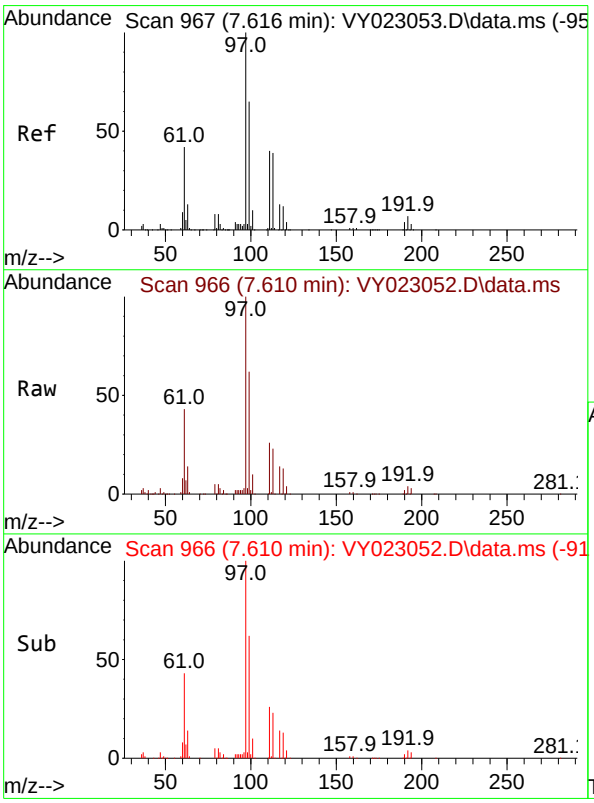
#31
Cyclohexane
Concen: 20.393 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

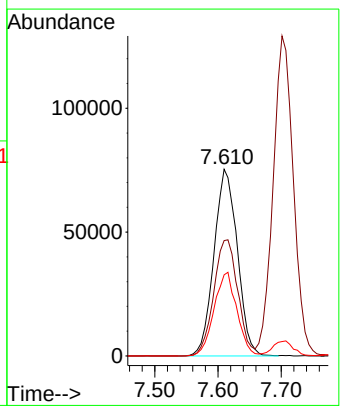


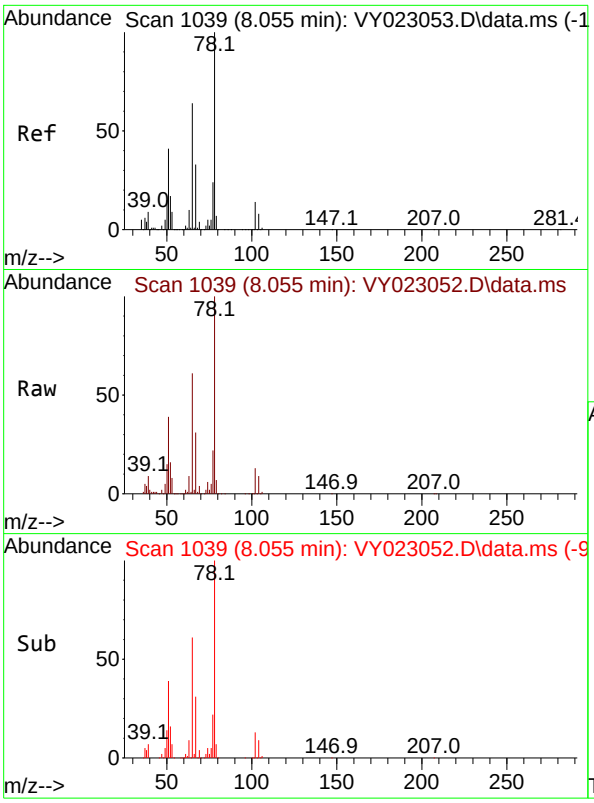


#32
1,1,1-Trichloroethane
Concen: 20.848 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



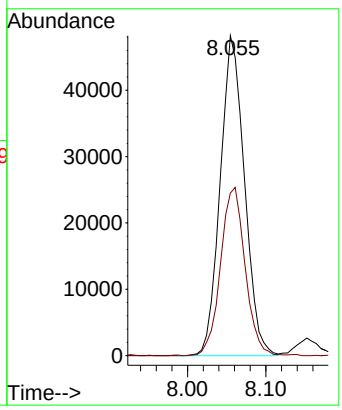


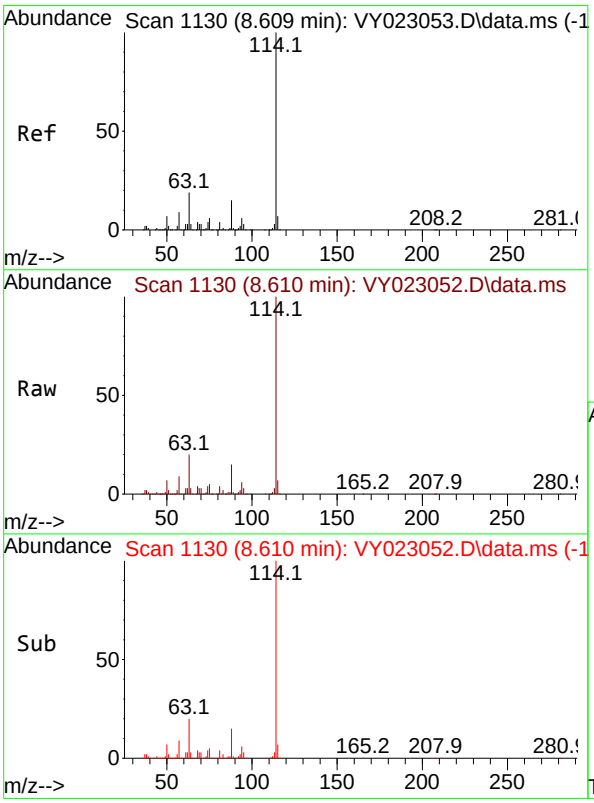
#33
1,2-Dichloroethane-d4
Concen: 20.244 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 103755

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

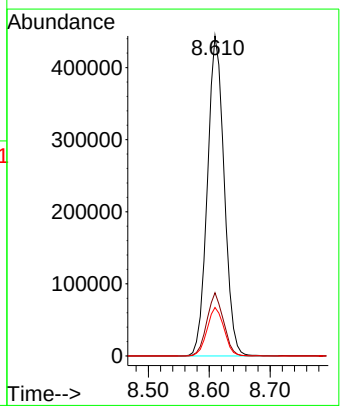


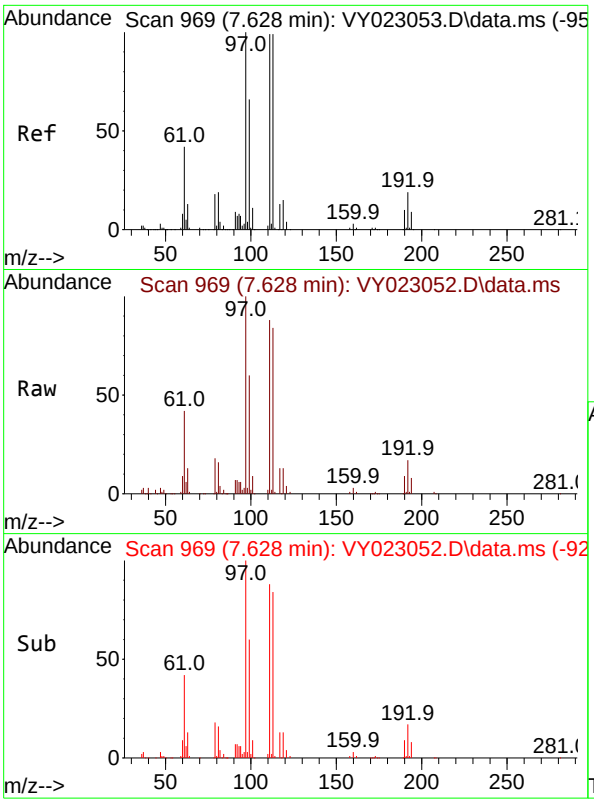


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



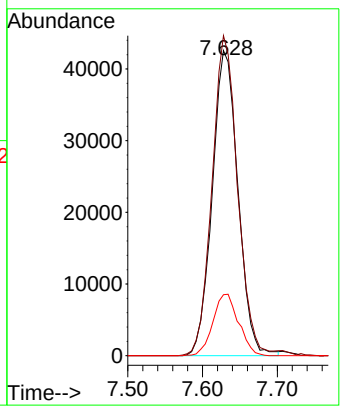


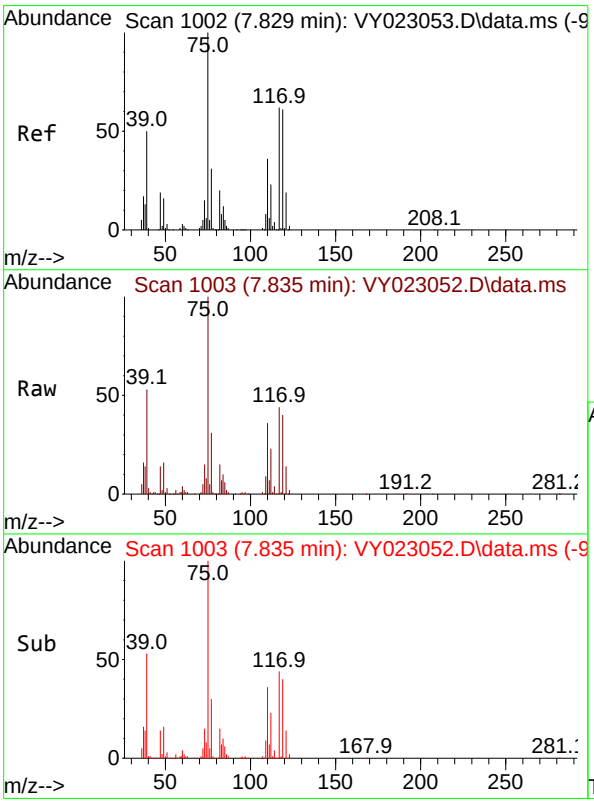
#35
Dibromofluoromethane
Concen: 20.093 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

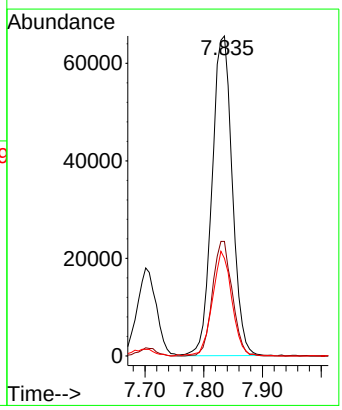


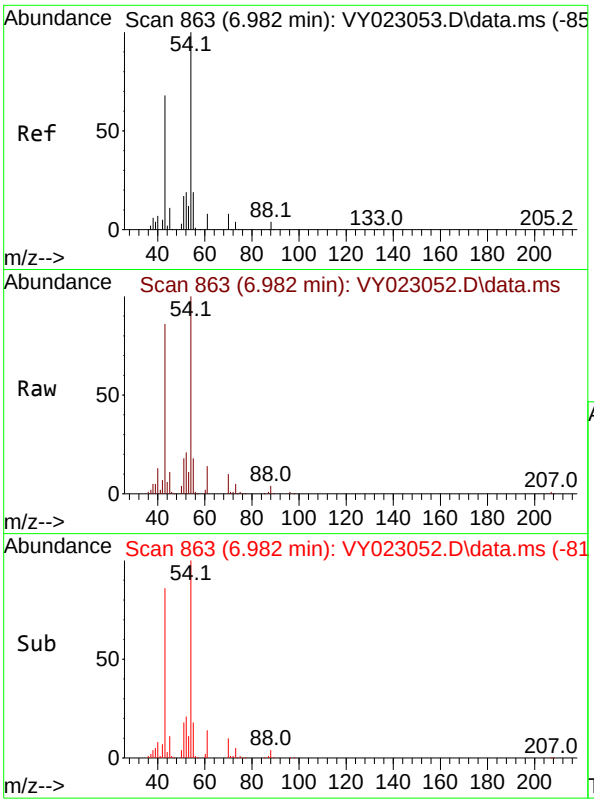


#36
1,1-Dichloropropene
Concen: 20.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



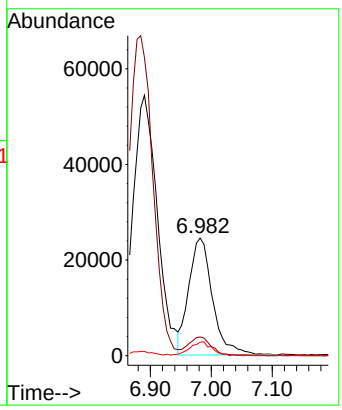


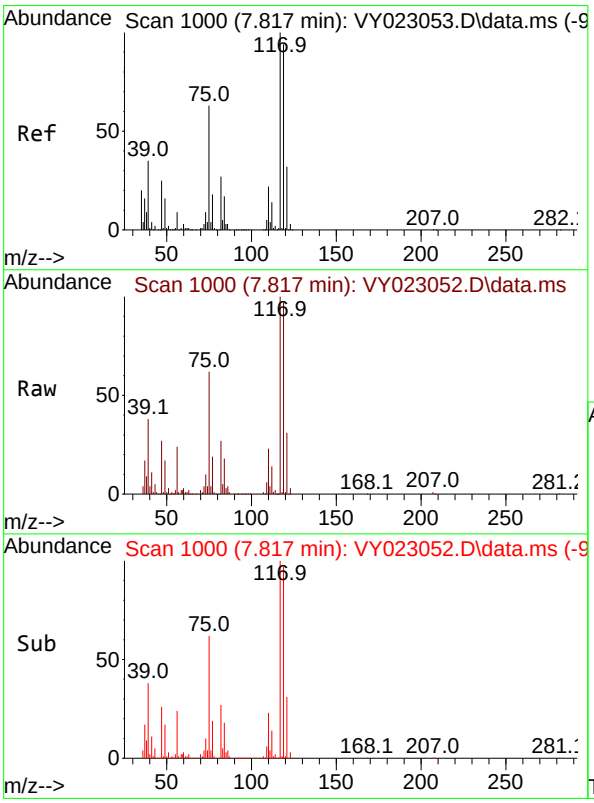
#37
Ethyl Acetate
Concen: 20.944 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

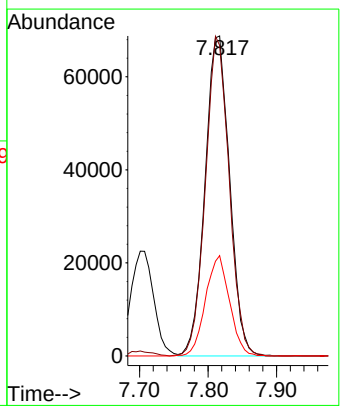


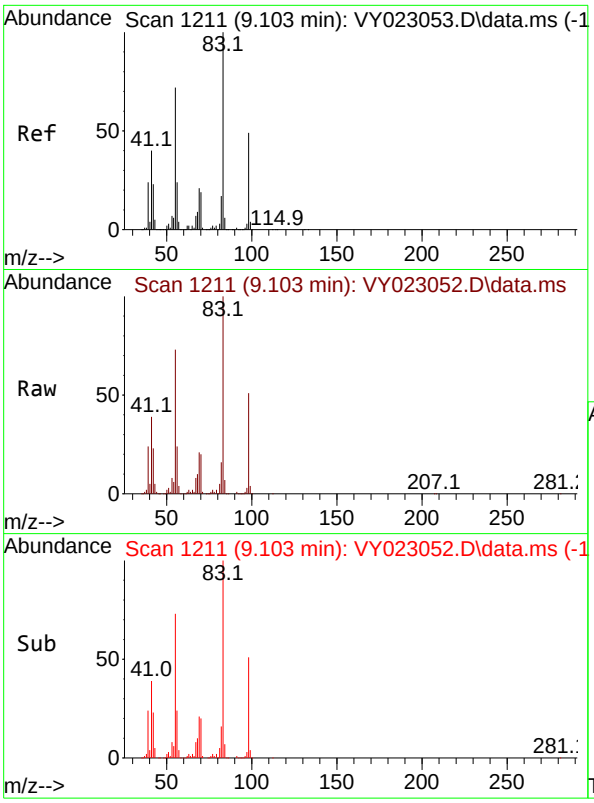


#38
Carbon Tetrachloride
Concen: 20.897 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



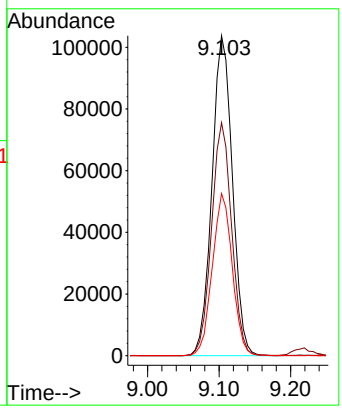


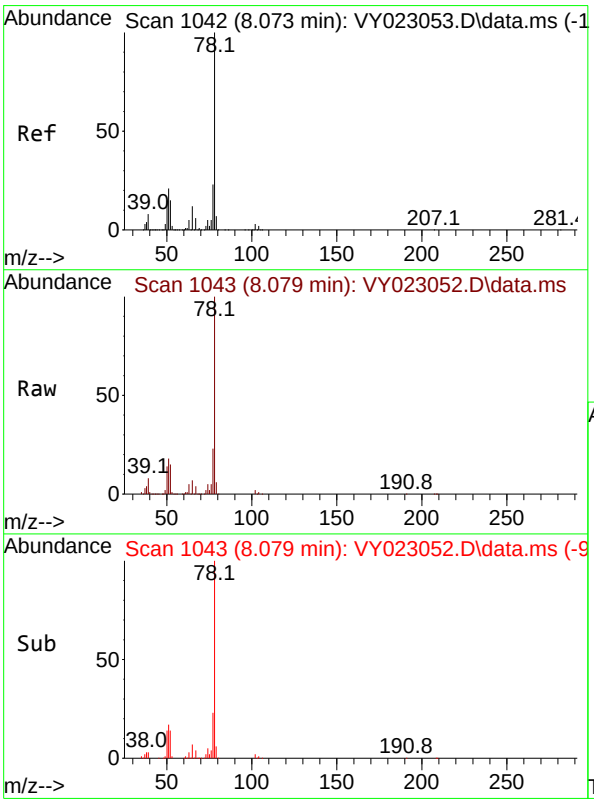
#39
Methylcyclohexane
Concen: 20.680 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

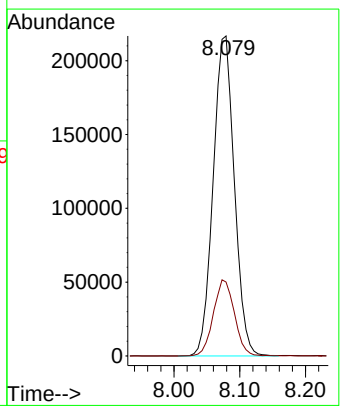


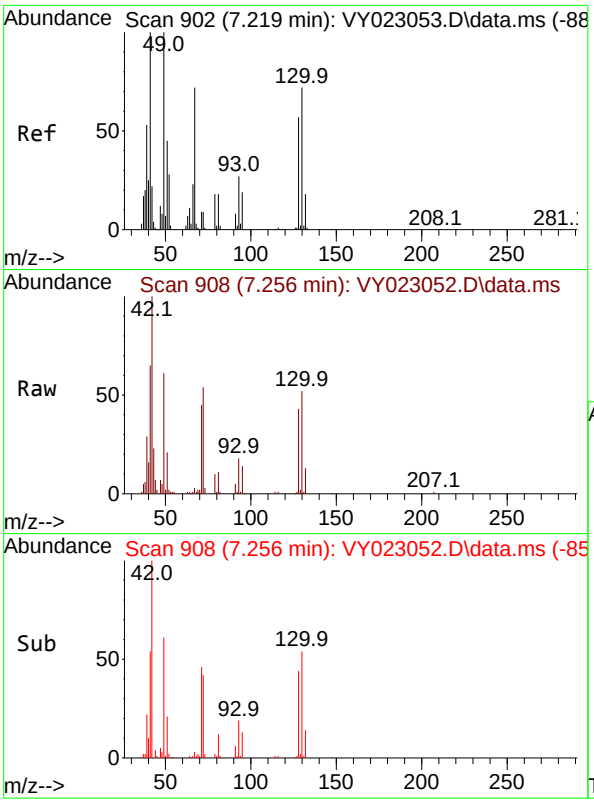


#40
Benzene
Concen: 20.871 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 78 Resp: 485631

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0



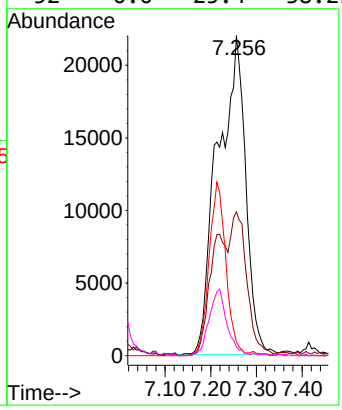


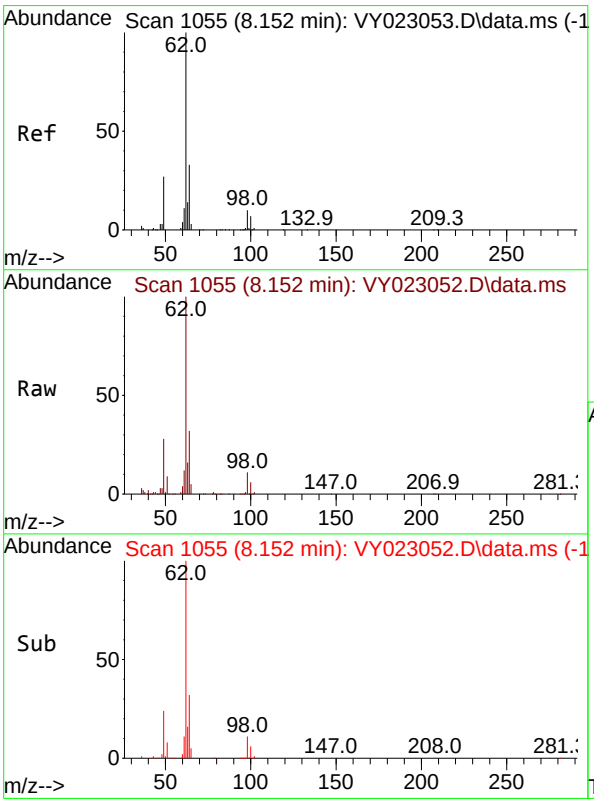
#41
Methacrylonitrile
Concen: 50.787 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.037 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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#

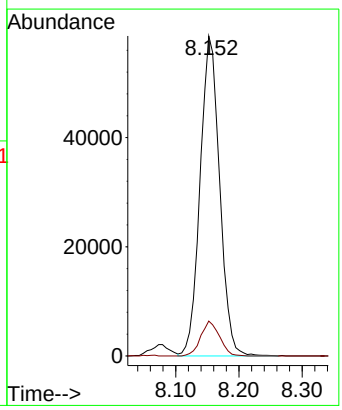


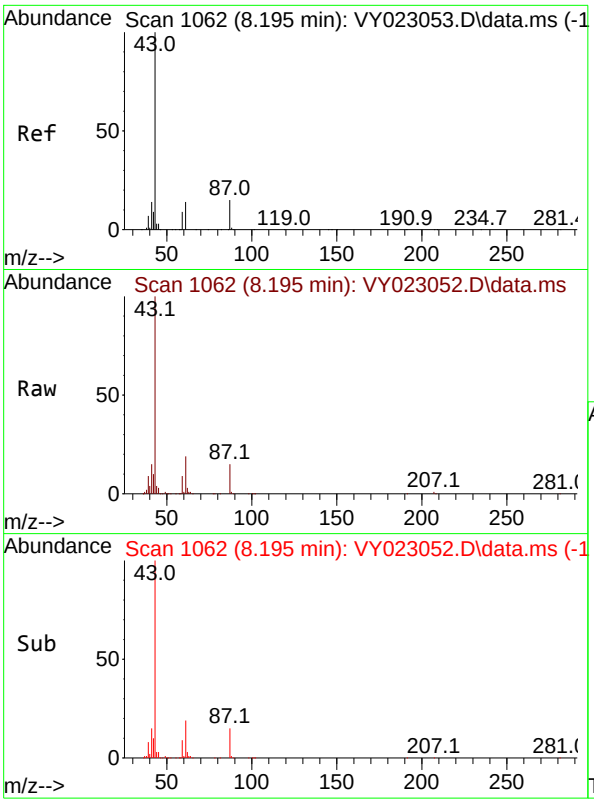


#42
1,2-Dichloroethane
Concen: 20.839 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 126111

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6



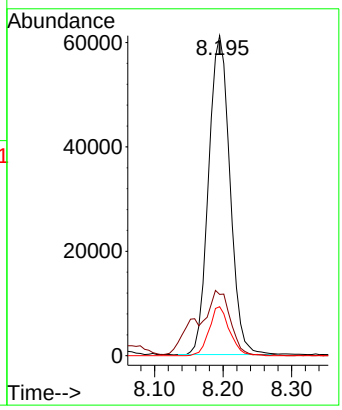


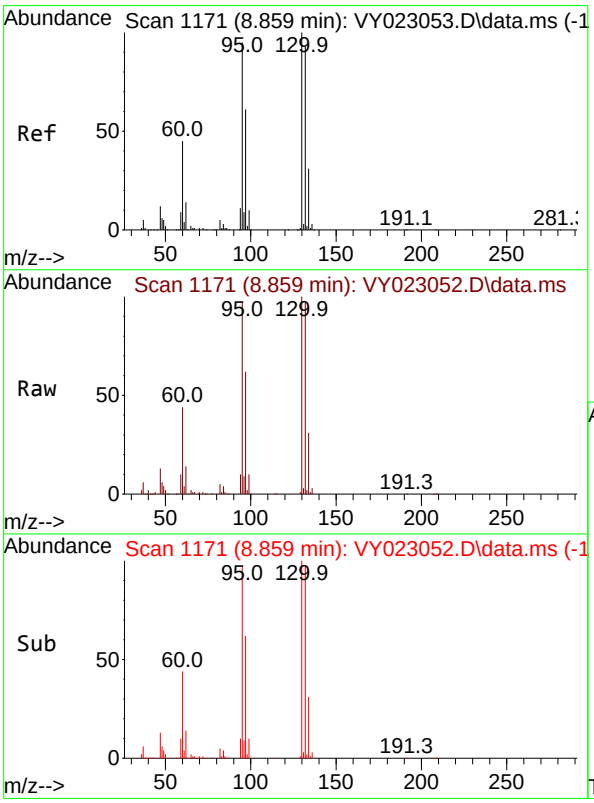
#43
Isopropyl Acetate
Concen: 20.571 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

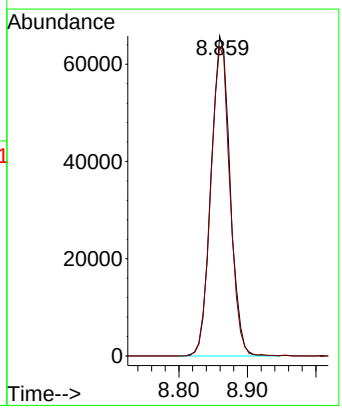


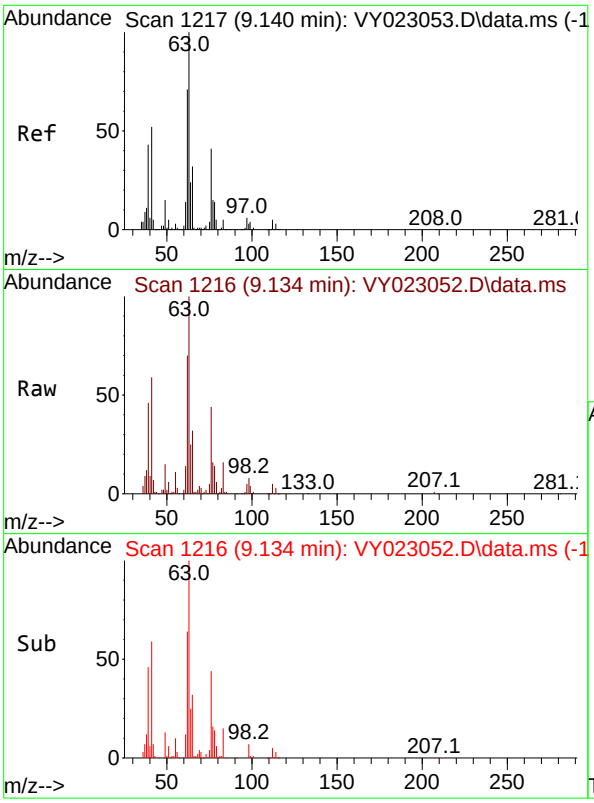


#44
Trichloroethene
Concen: 21.083 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:130 Resp: 126772

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	190.2



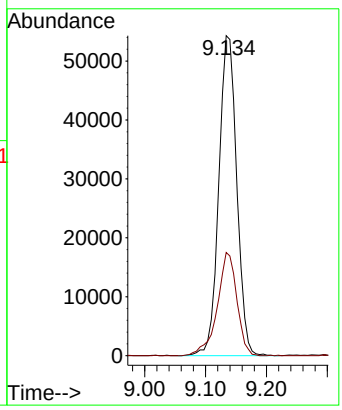


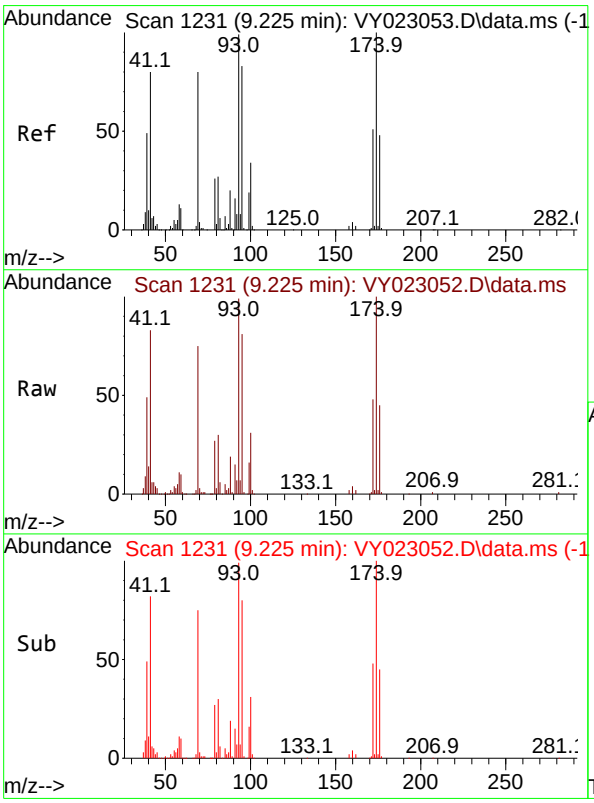
#45
1,2-Dichloropropane
Concen: 20.677 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 110699

Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.3	37.9

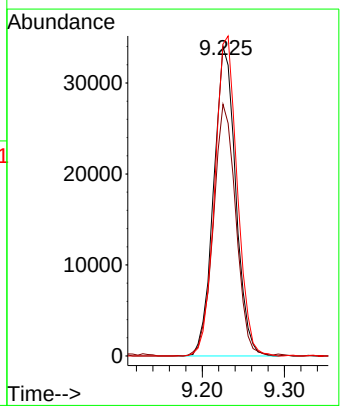


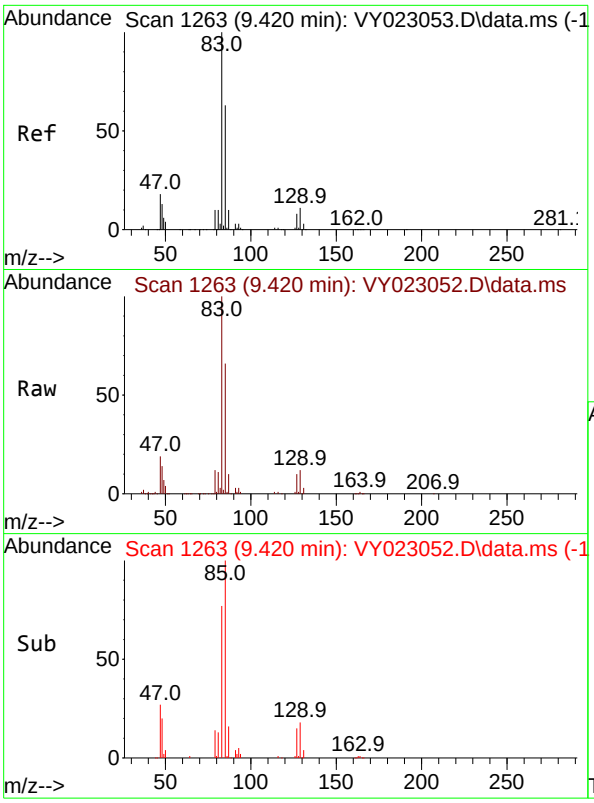


#46
Dibromomethane
Concen: 20.635 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



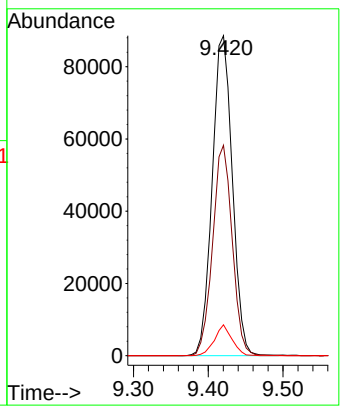


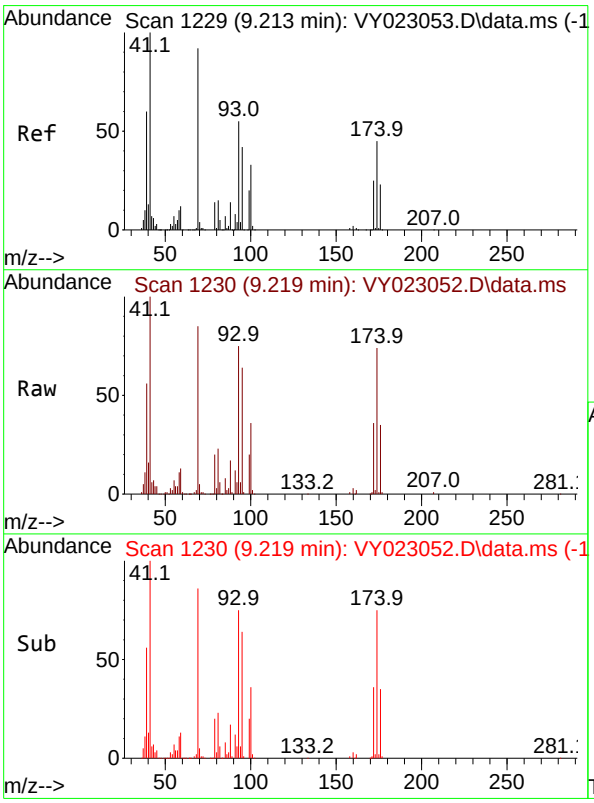
#47
Bromodichloromethane
Concen: 20.988 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

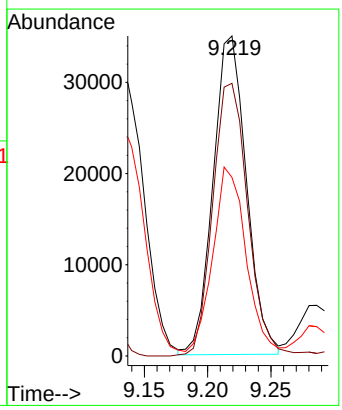


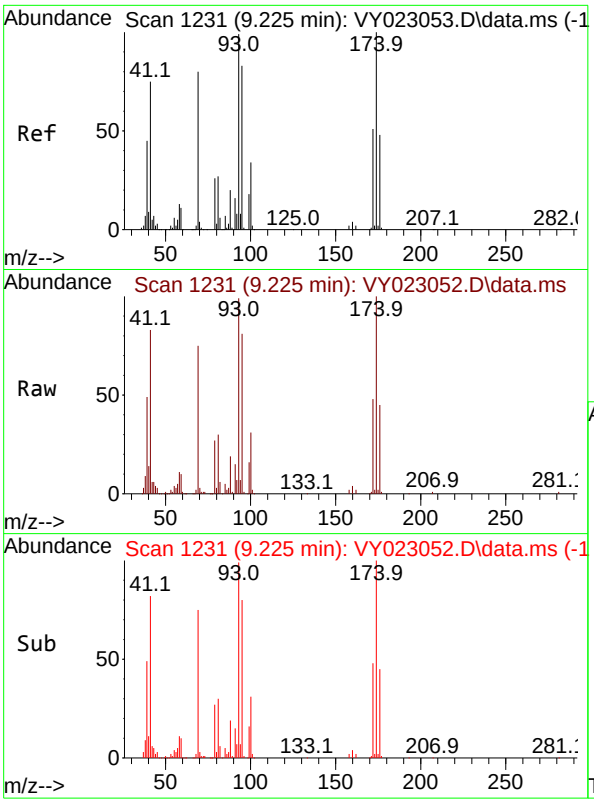


#48
Methyl methacrylate
Concen: 20.905 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



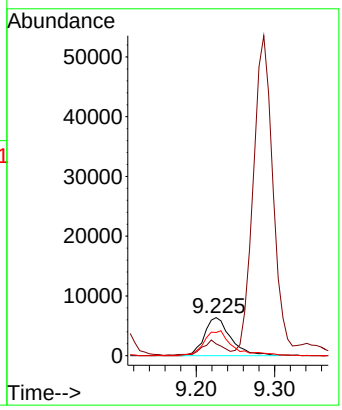


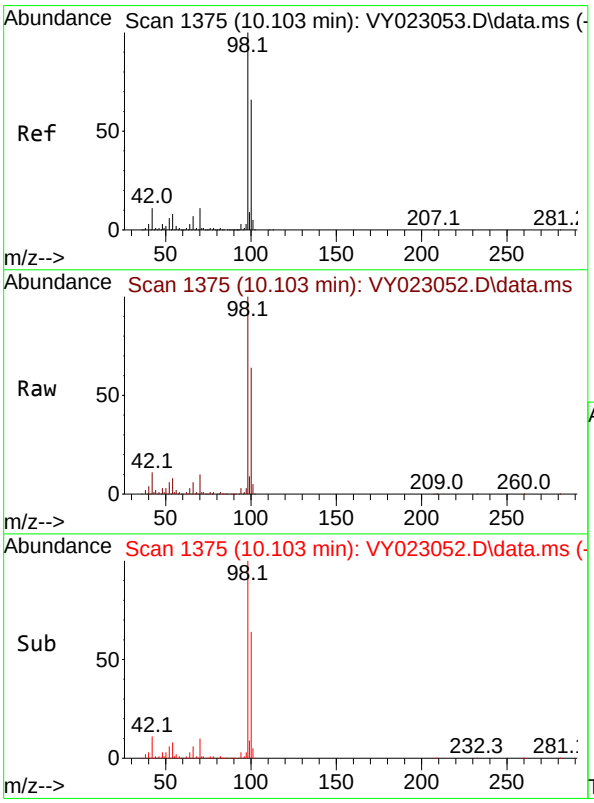
#49
1,4-Dioxane
Concen: 411.480 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

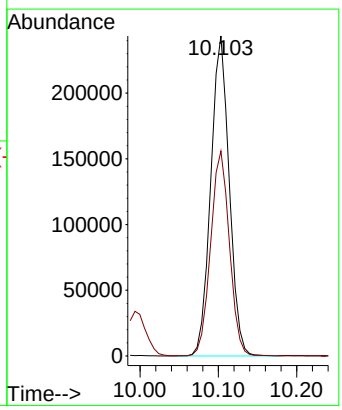


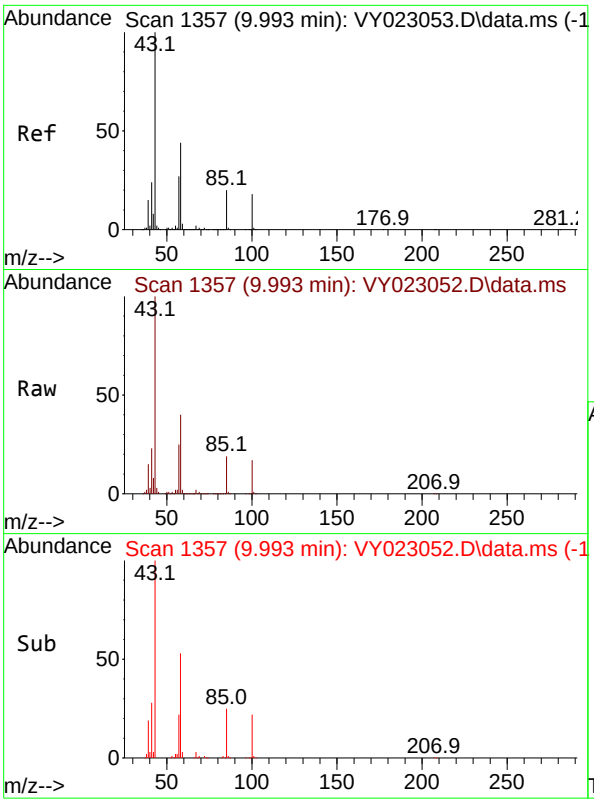


#50
Toluene-d8
Concen: 20.075 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 98 Resp: 398394

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5



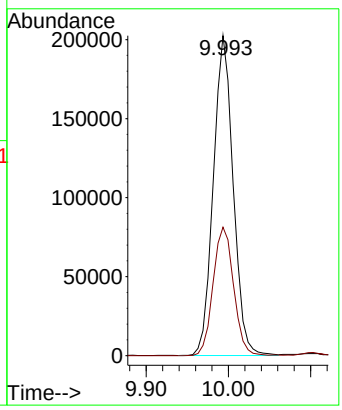


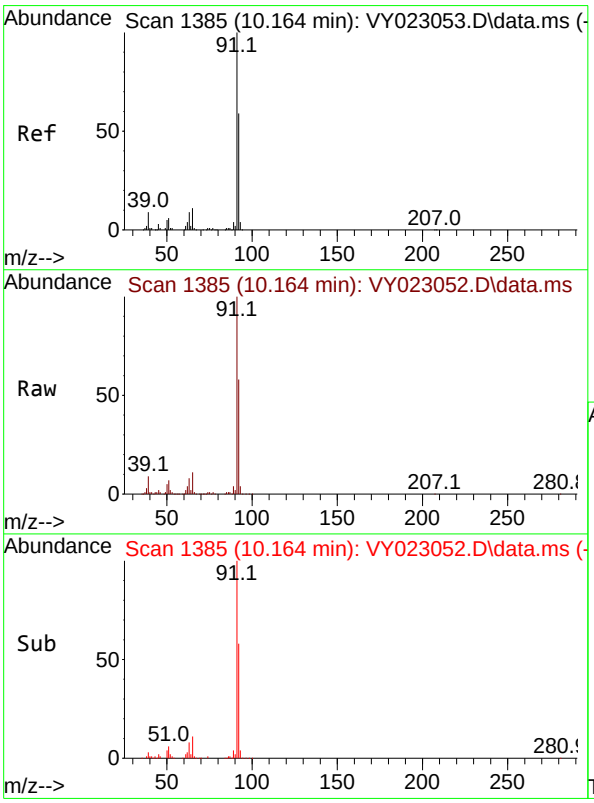
#51
4-Methyl-2-Pentanone
Concen: 102.622 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 339298

Ion	Ratio	Lower	Upper
43	100		
58	41.6	33.5	50.3

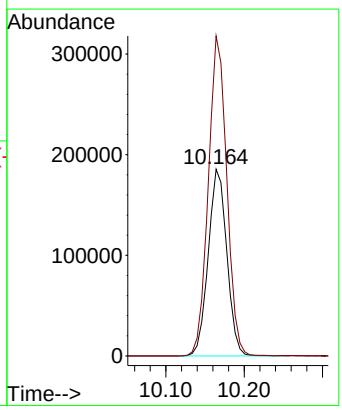


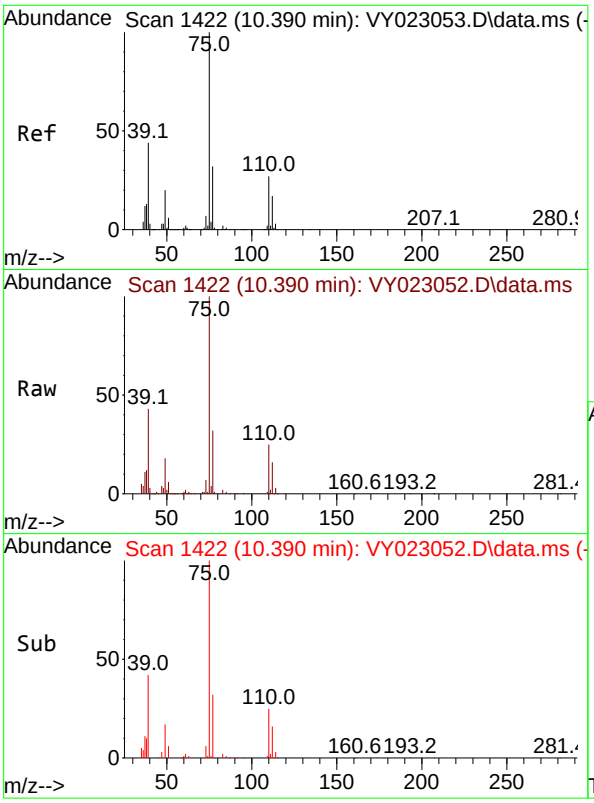


#52
Toluene
Concen: 20.719 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 92 Resp: 306193

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.4	204.6



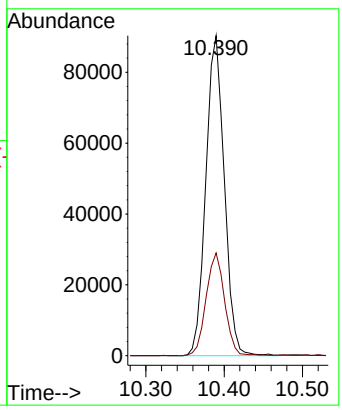


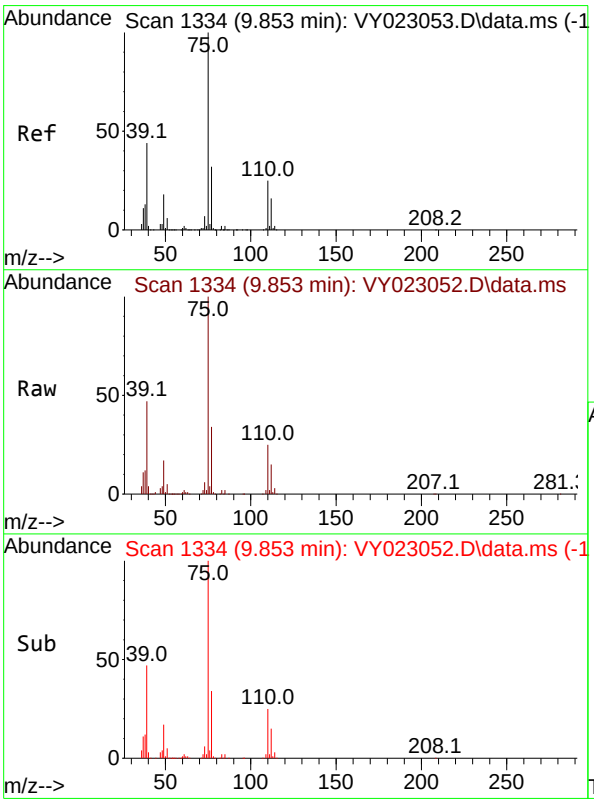
#53
t-1,3-Dichloropropene
Concen: 20.627 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 147696

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5

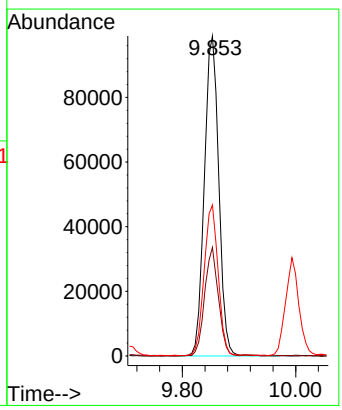


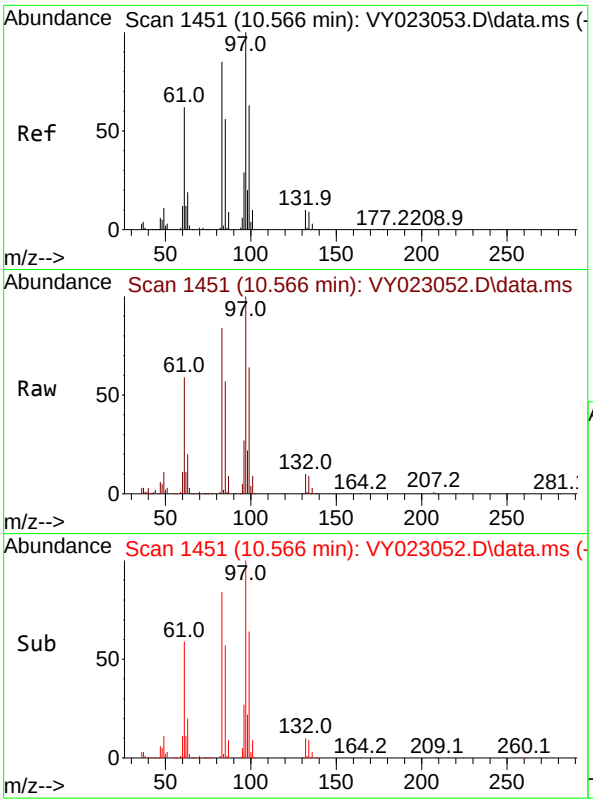


#54
cis-1,3-Dichloropropene
Concen: 20.580 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



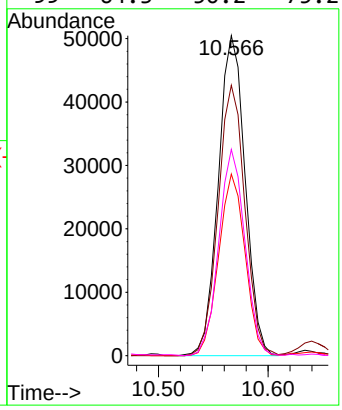


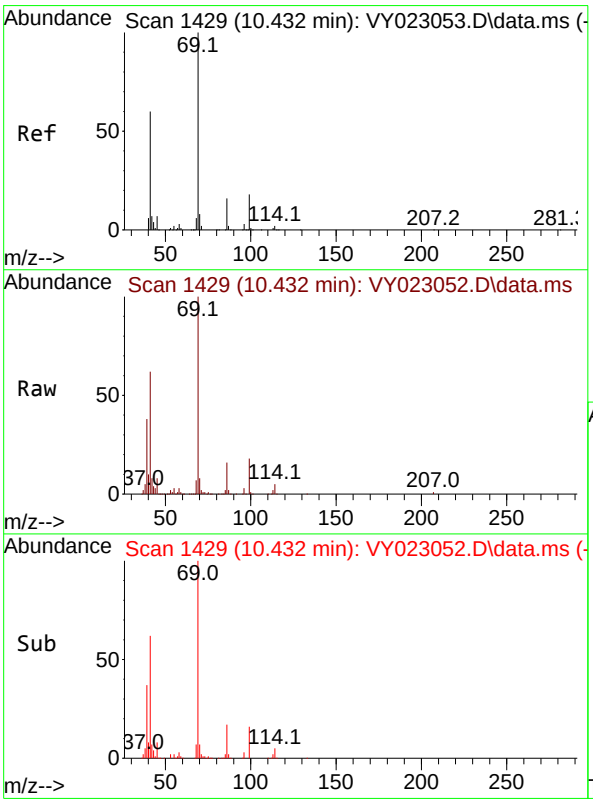
#55
1,1,2-Trichloroethane
Concen: 20.920 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

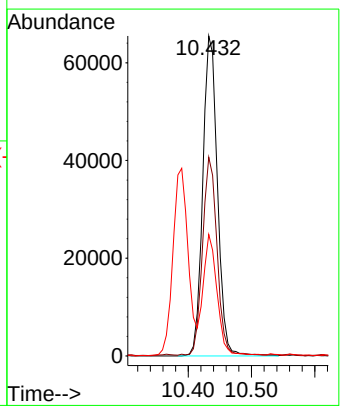


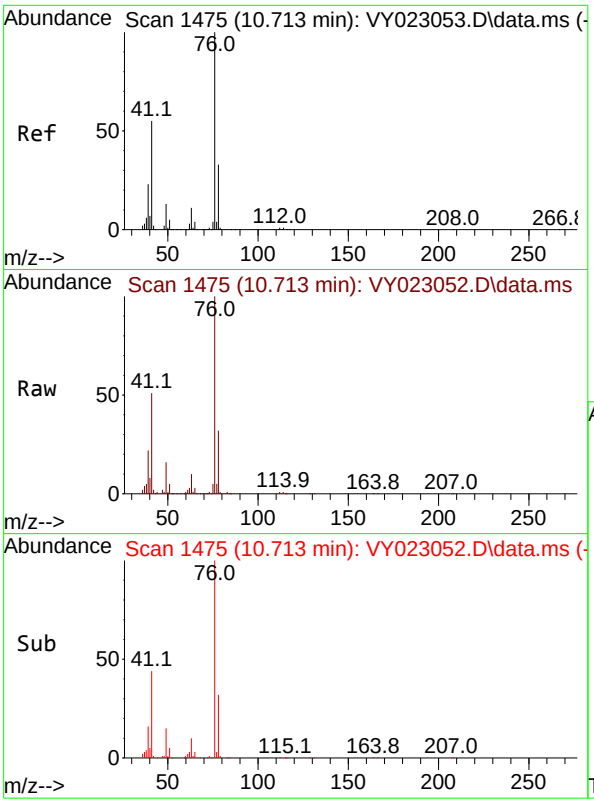


#56
Ethyl methacrylate
Concen: 20.111 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



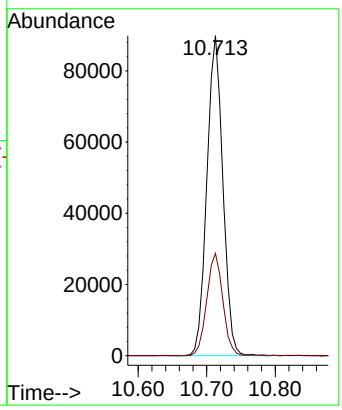


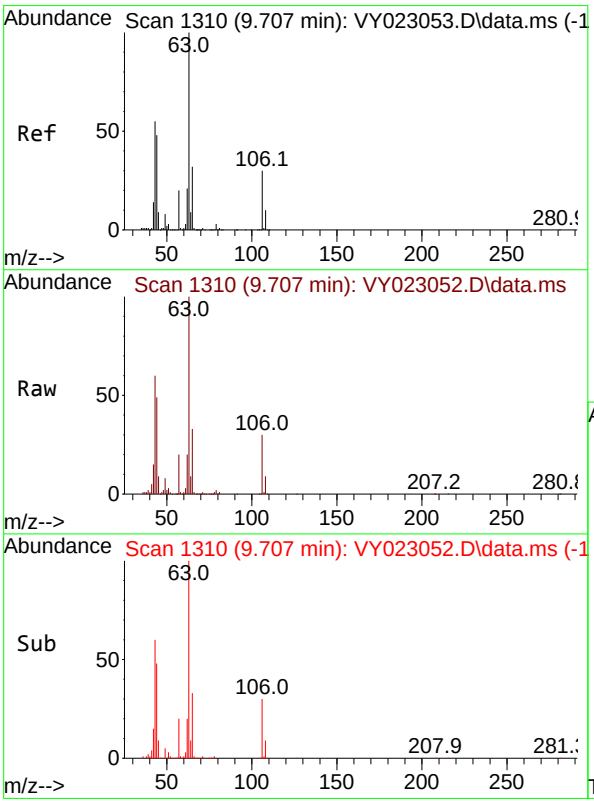
#57
1,3-Dichloropropane
Concen: 20.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 145621

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.0	39.0

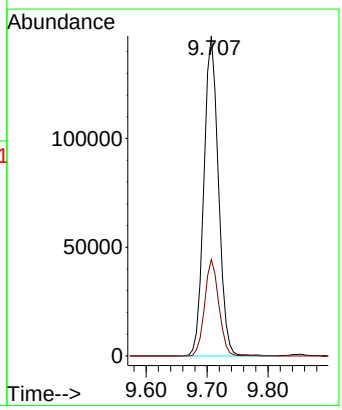


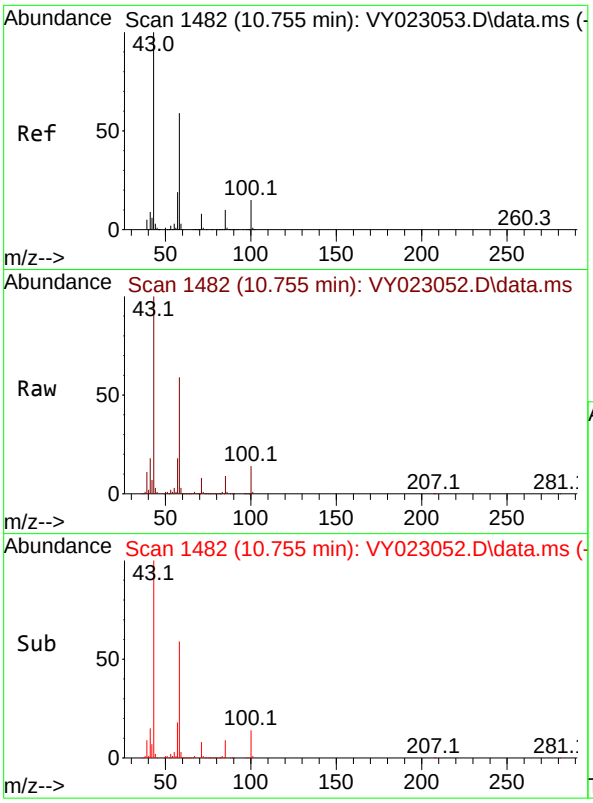


#58
2-Chloroethyl Vinyl ether
Concen: 98.450 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 244340

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.2	34.8



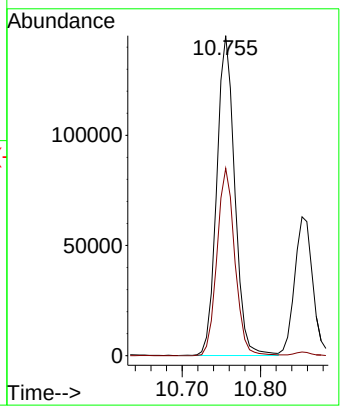


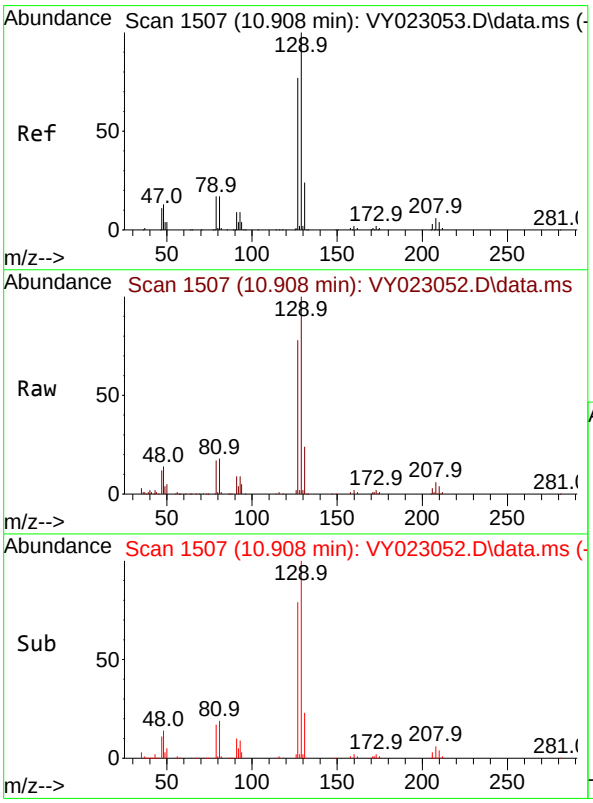
#59
2-Hexanone
Concen: 102.992 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 231872

Ion	Ratio	Lower	Upper
43	100		
58	58.1	29.5	88.5

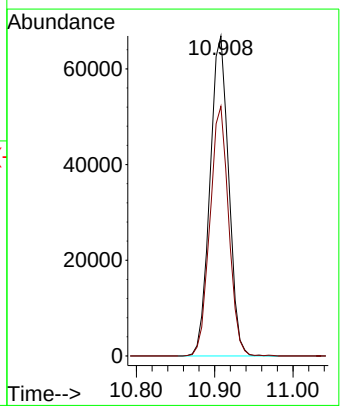


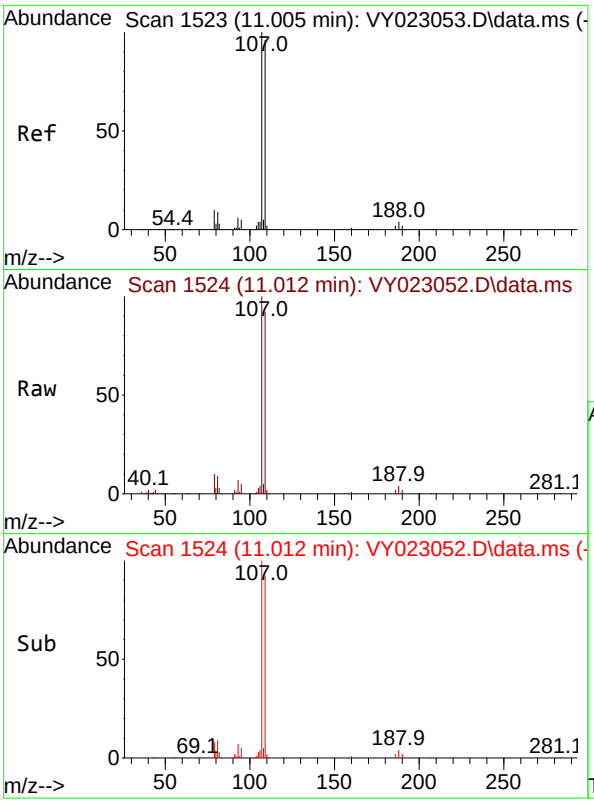


#60
Dibromochloromethane
Concen: 20.424 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:129 Resp: 110810

Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.5	115.5



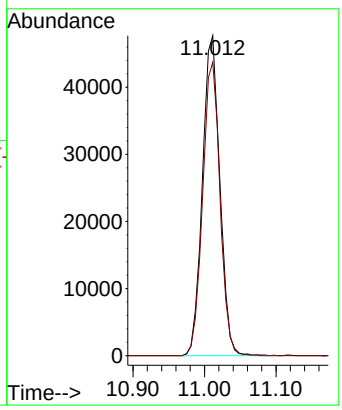


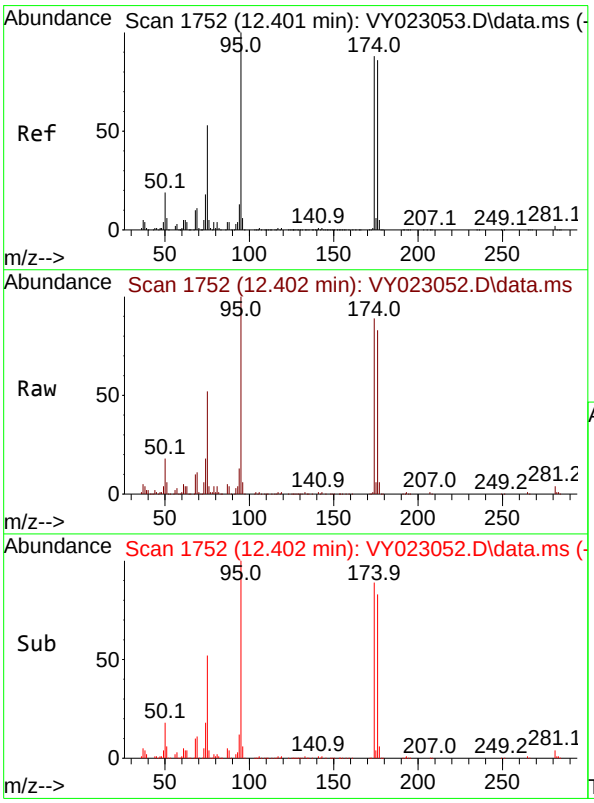
#61
1,2-Dibromoethane
Concen: 20.842 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 80549

Ion	Ratio	Lower	Upper
107	100		
109	91.5	75.6	113.4

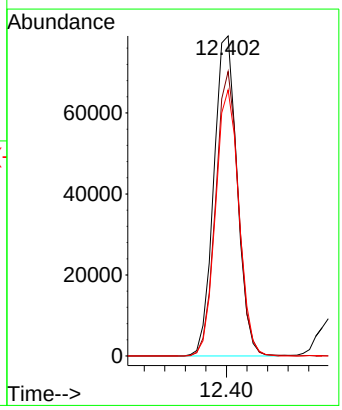


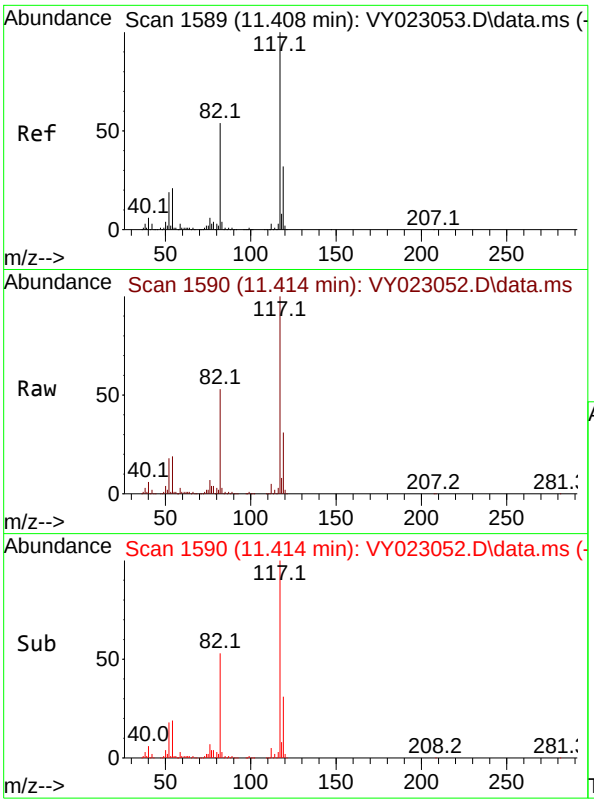


#62
4-Bromofluorobenzene
Concen: 19.503 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



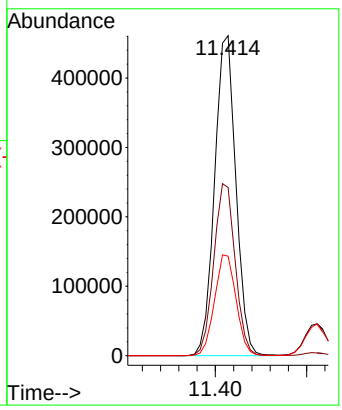


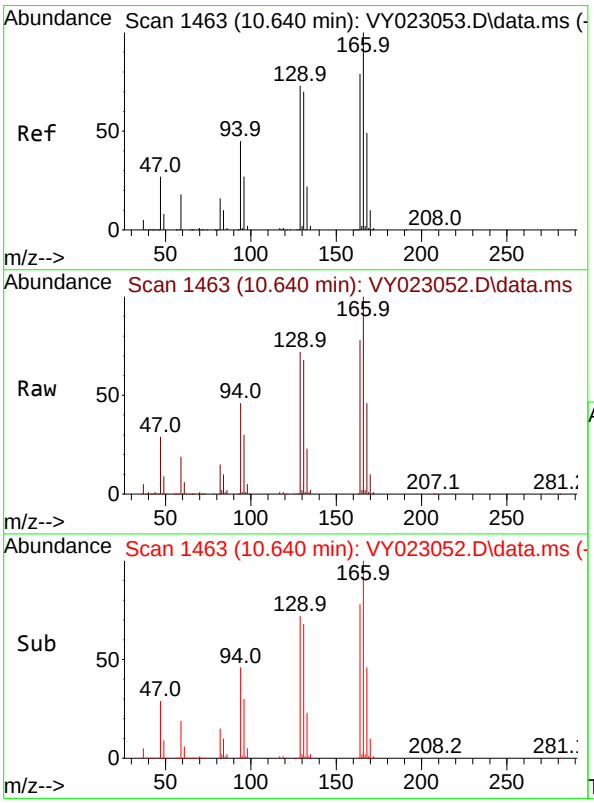
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

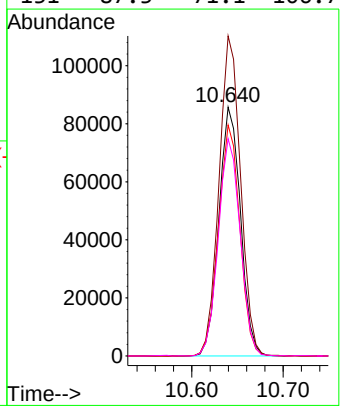


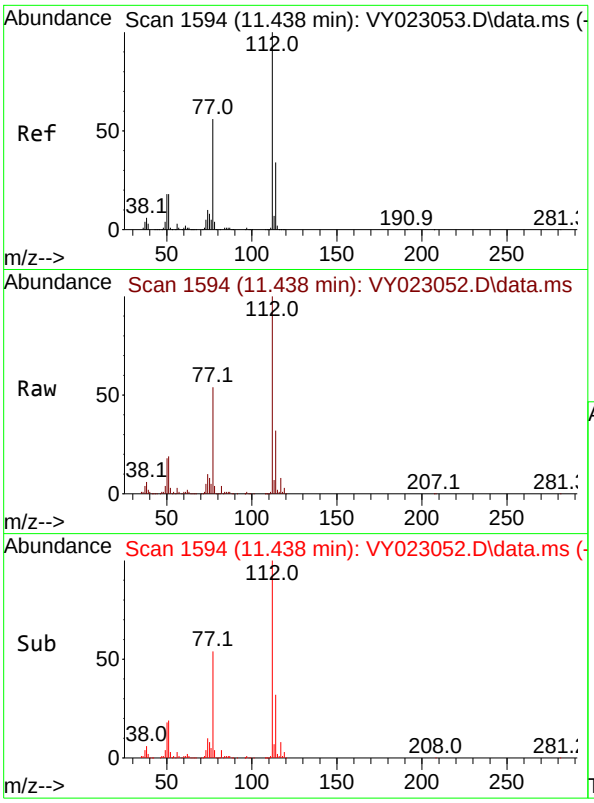


#64
Tetrachloroethene
Concen: 21.273 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



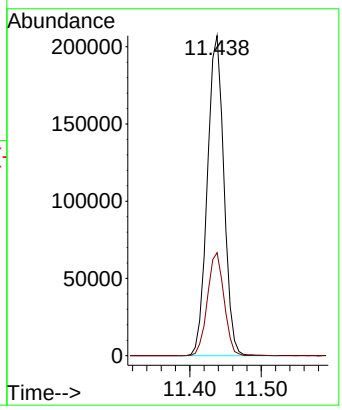


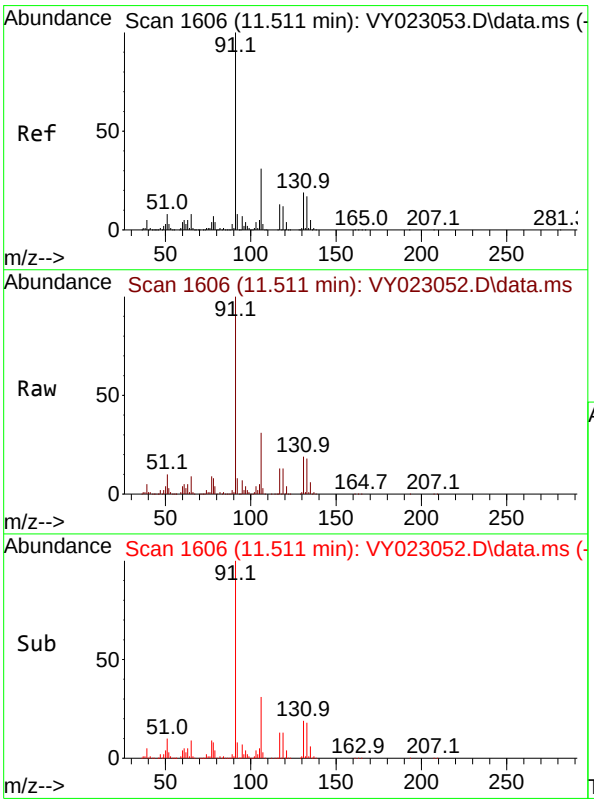
#65
Chlorobenzene
Concen: 20.690 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 332700

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

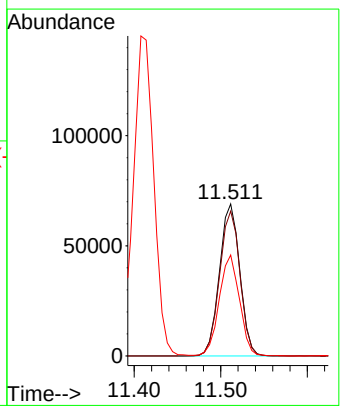


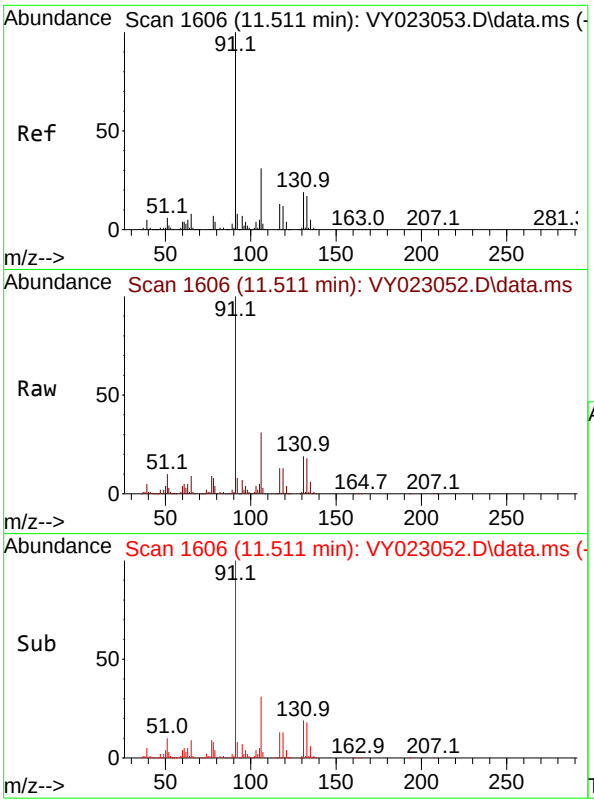


#66
1,1,1,2-Tetrachloroethane
Concen: 20.647 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



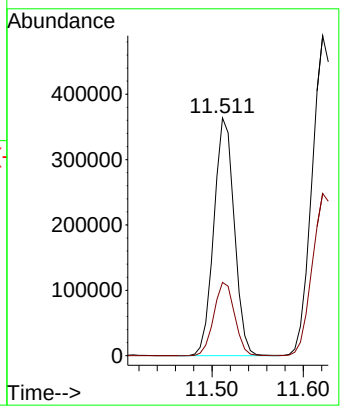


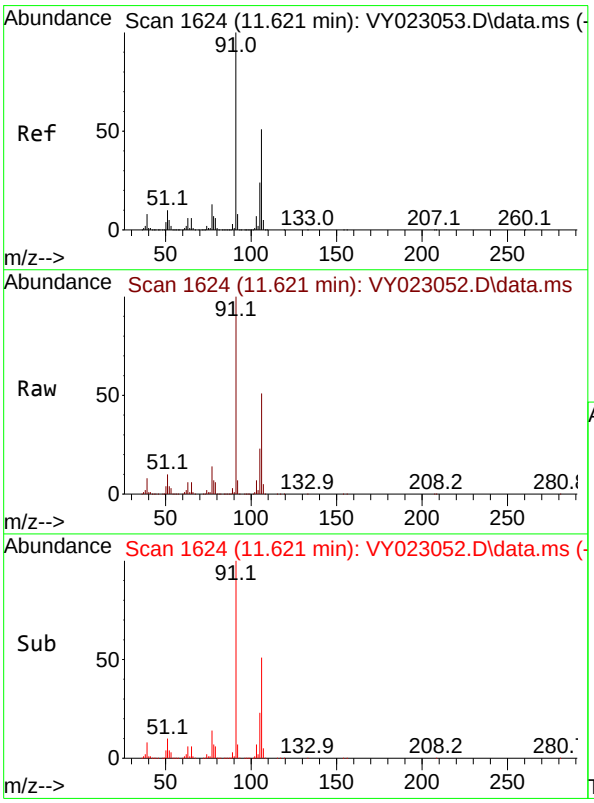
#67
Ethyl Benzene
Concen: 20.412 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 564855

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.0	37.4

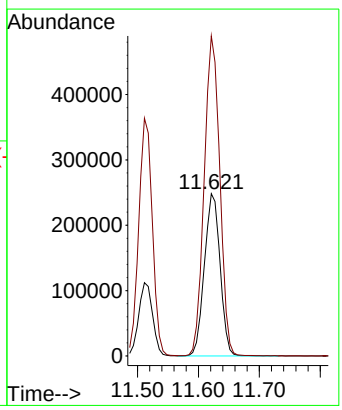


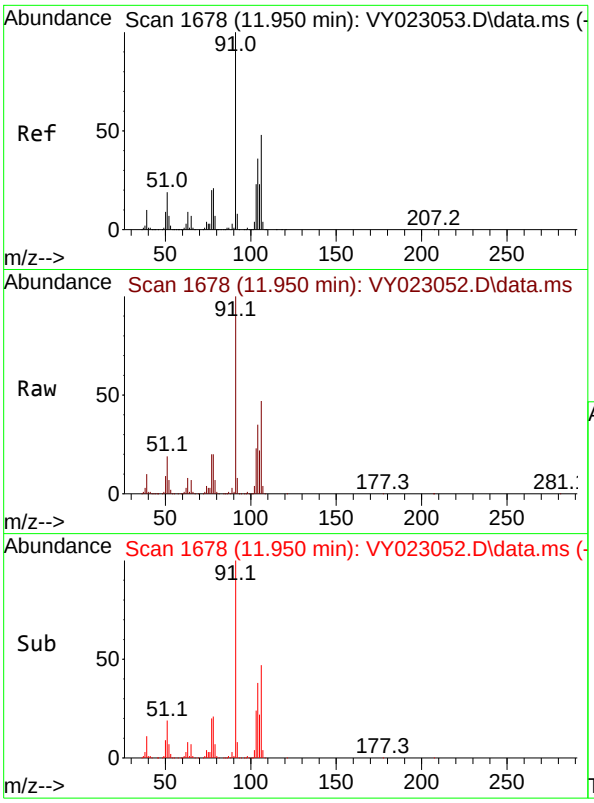


#68
m/p-Xylenes
Concen: 41.115 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:106 Resp: 444361

Ion	Ratio	Lower	Upper
106	100		
91	195.9	158.6	238.0



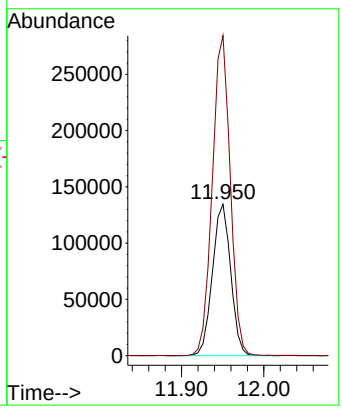


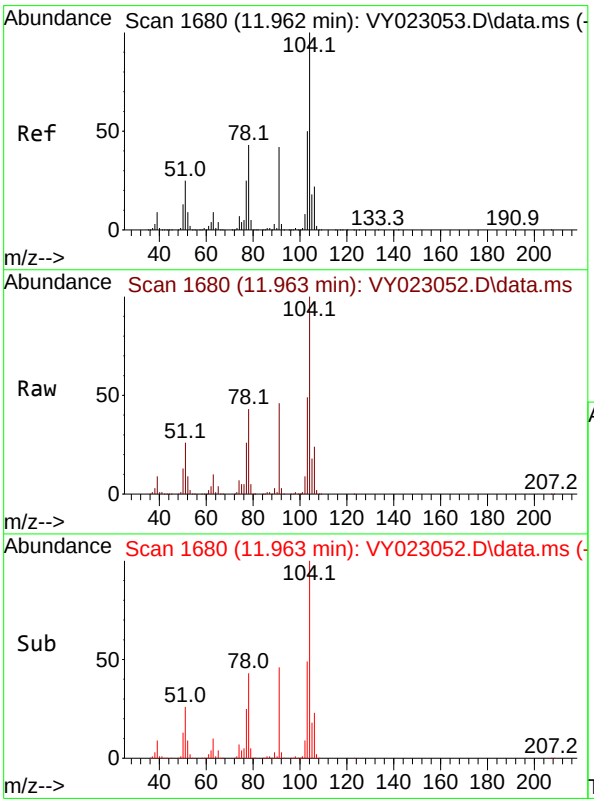
#69
o-Xylene
Concen: 20.513 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 207639

Ion	Ratio	Lower	Upper
106	100		
91	208.2	103.2	309.4

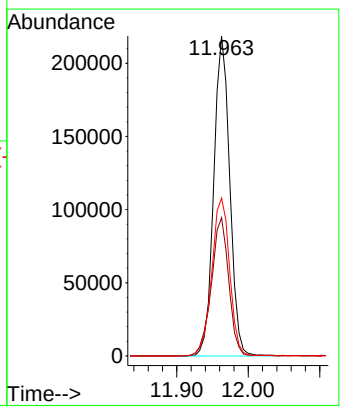


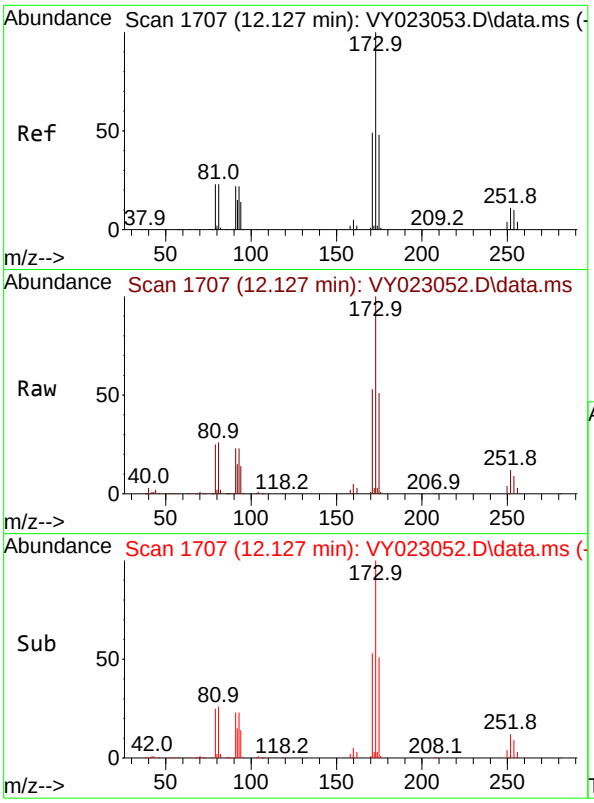


#70
Styrene
Concen: 20.532 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



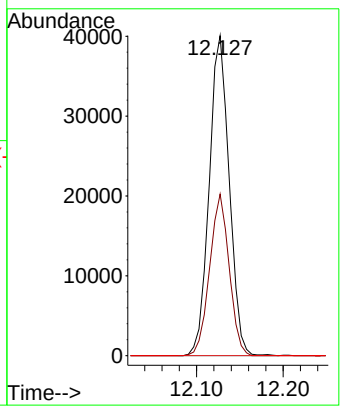


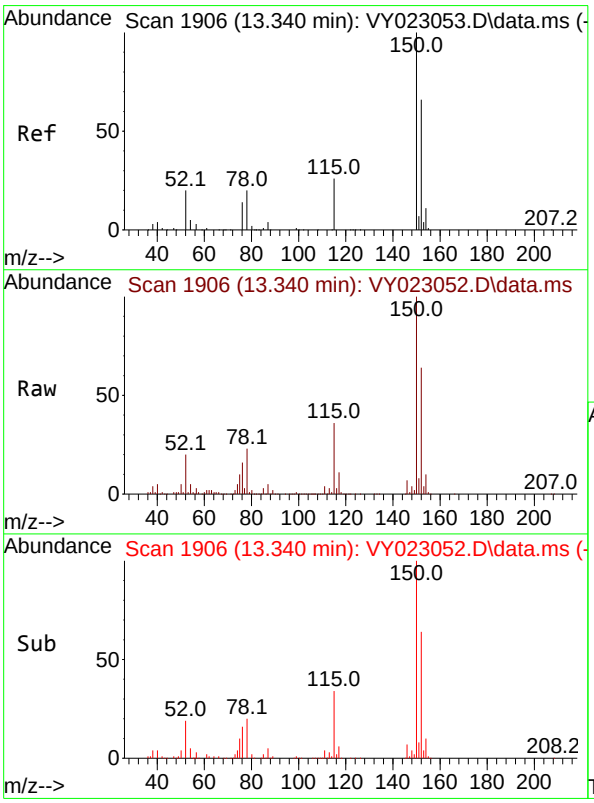
#71
Bromoform
Concen: 20.151 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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#

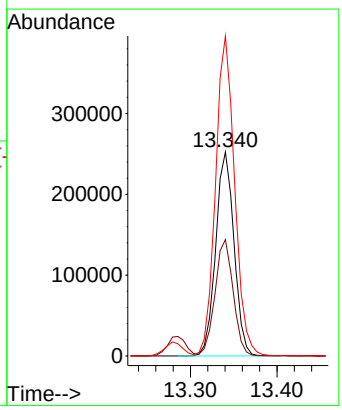


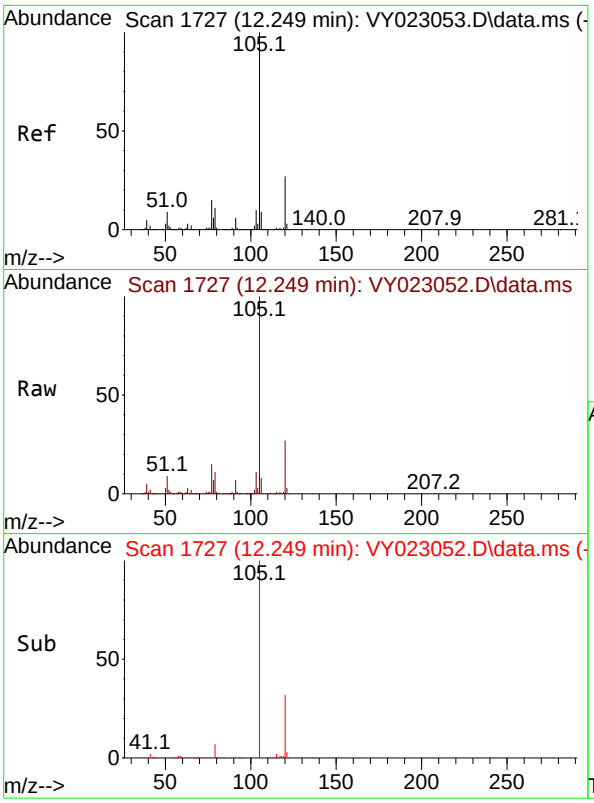


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



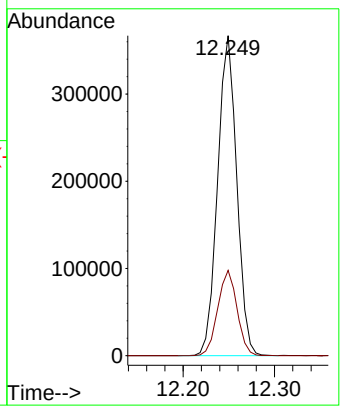


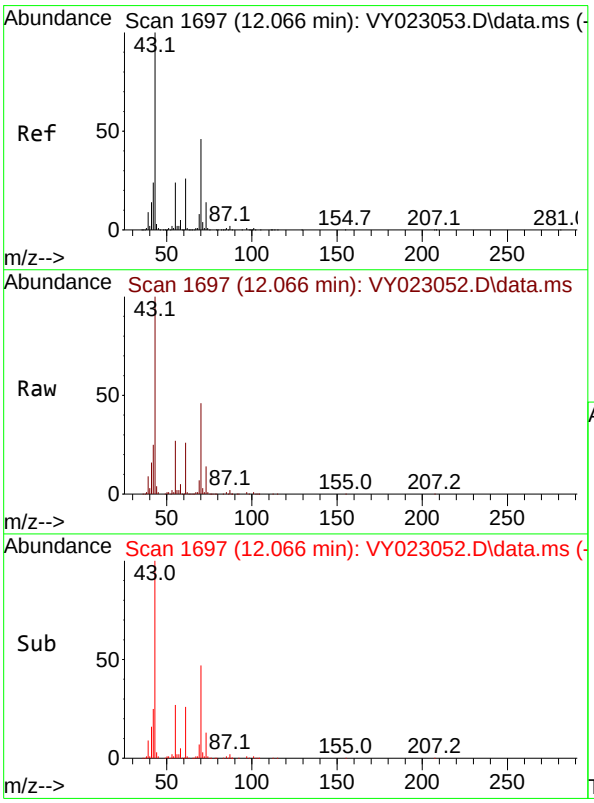
#73
Isopropylbenzene
Concen: 20.413 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 534421

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2

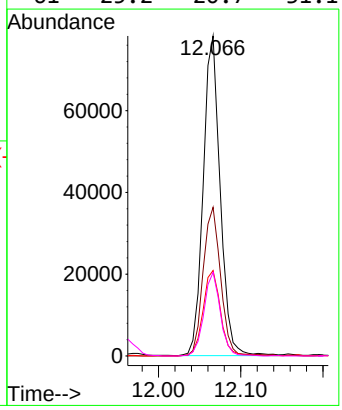


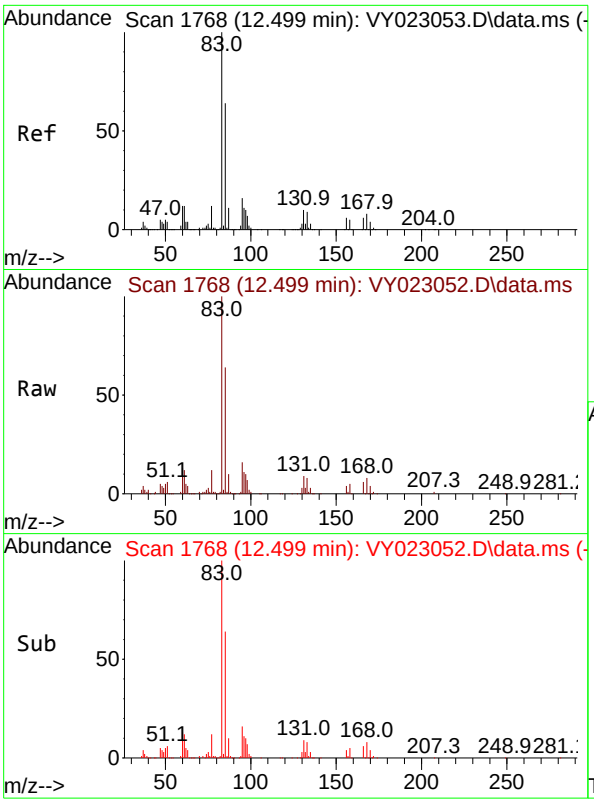


#74
N-amyl acetate
Concen: 20.227 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



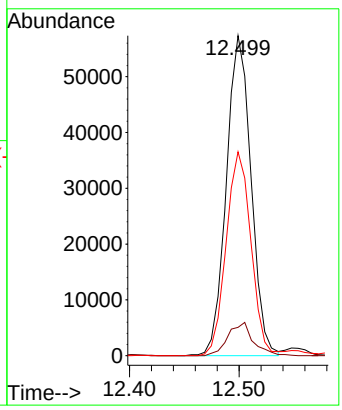


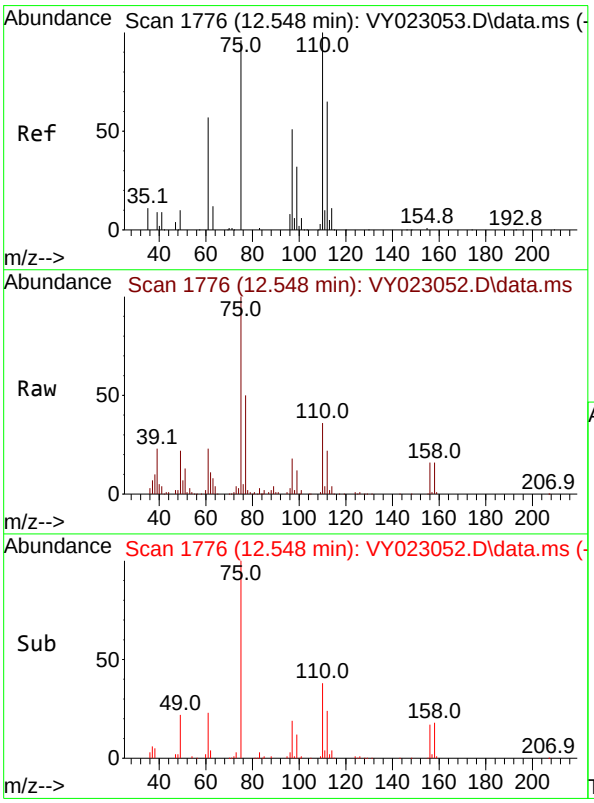
#75
1,1,2,2-Tetrachloroethane
Concen: 20.085 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

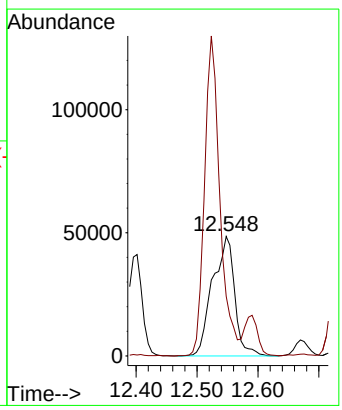


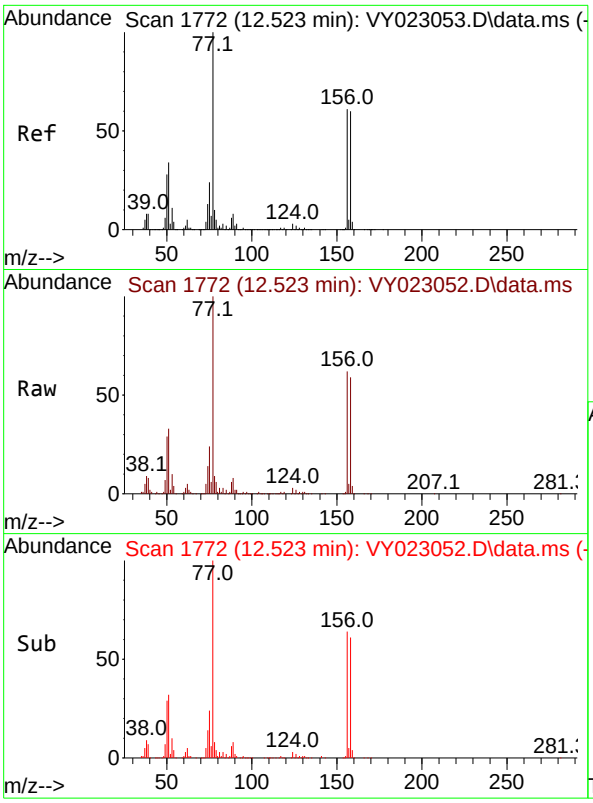


#76
1,2,3-Trichloropropane
Concen: 34.195 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 122494

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



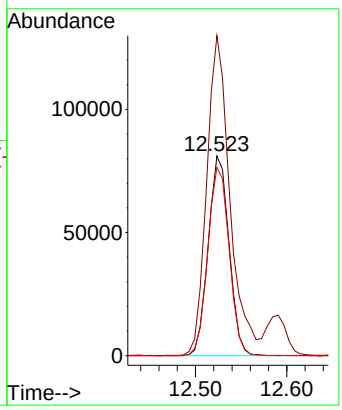


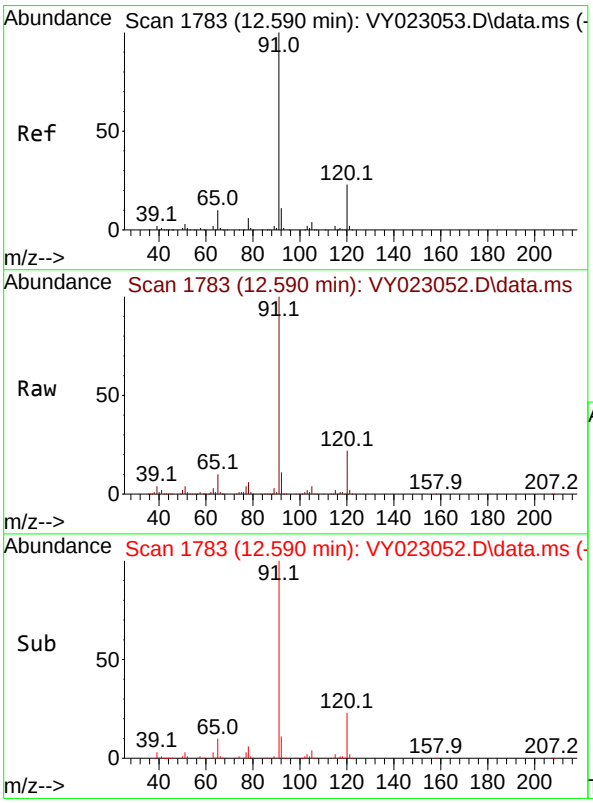
#77
Bromobenzene
Concen: 20.574 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

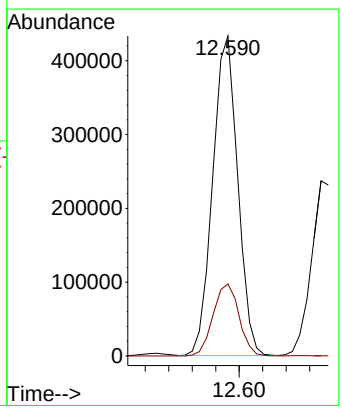


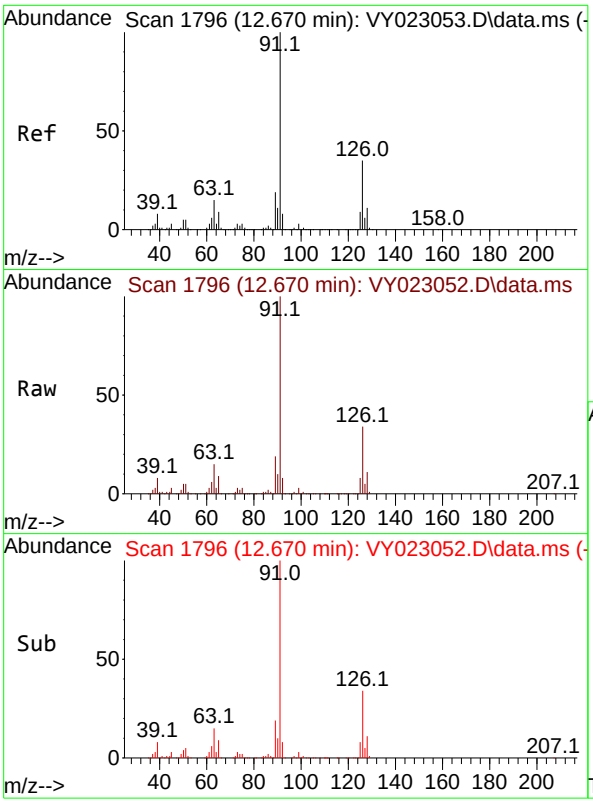


#78
n-propylbenzene
Concen: 20.550 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 640528

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.5



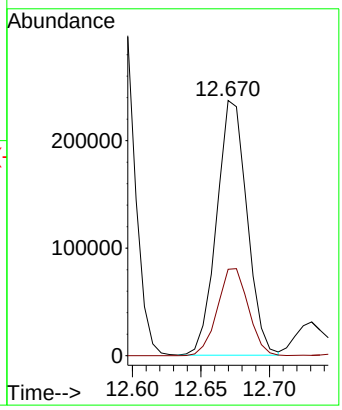


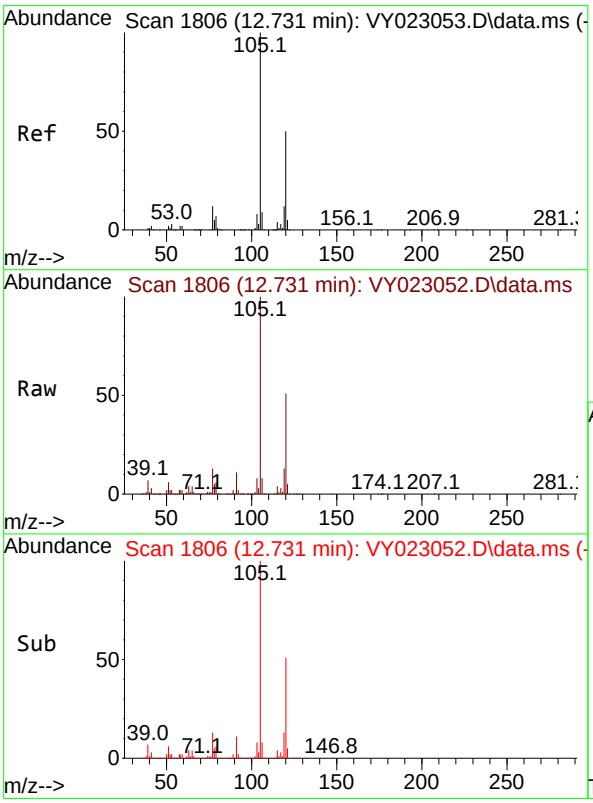
#79
2-Chlorotoluene
Concen: 20.471 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 365577

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

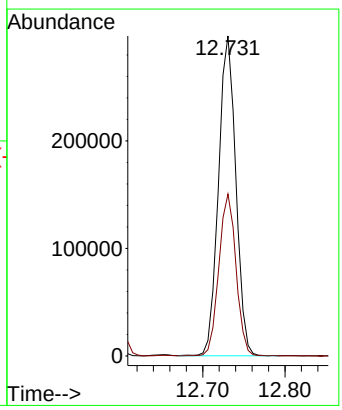


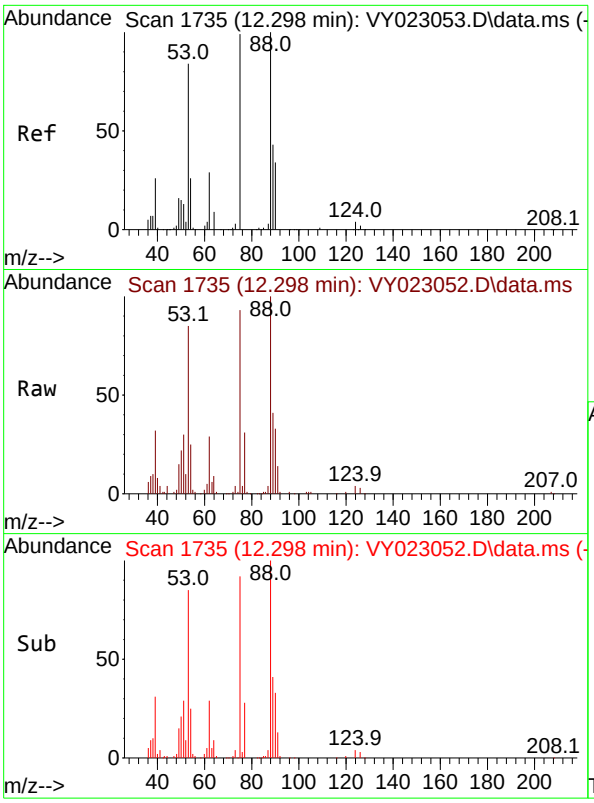


#80
1,3,5-Trimethylbenzene
Concen: 20.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 435074

Ion	Ratio	Lower	Upper
105	100		
120	50.2	24.8	74.4



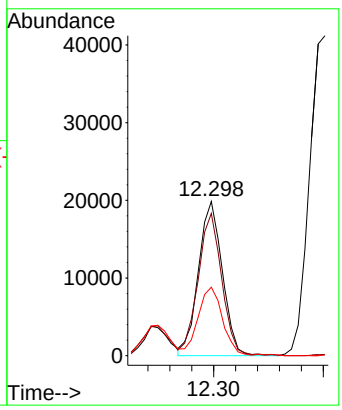


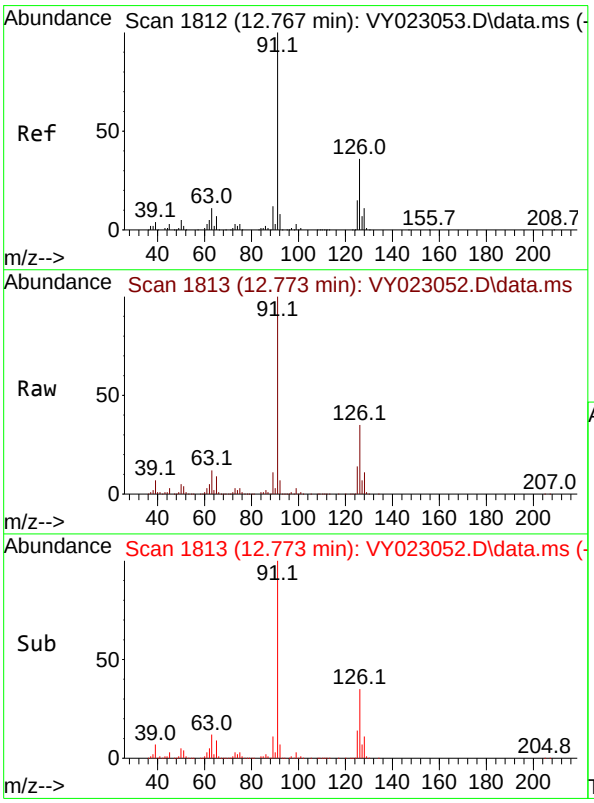
#81
trans-1,4-Dichloro-2-butene
Concen: 20.389 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

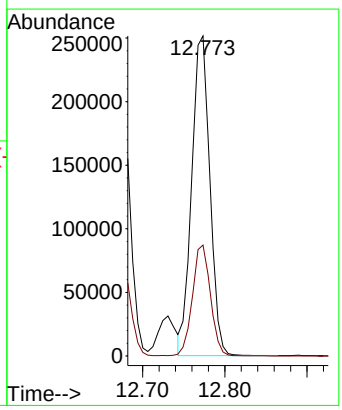


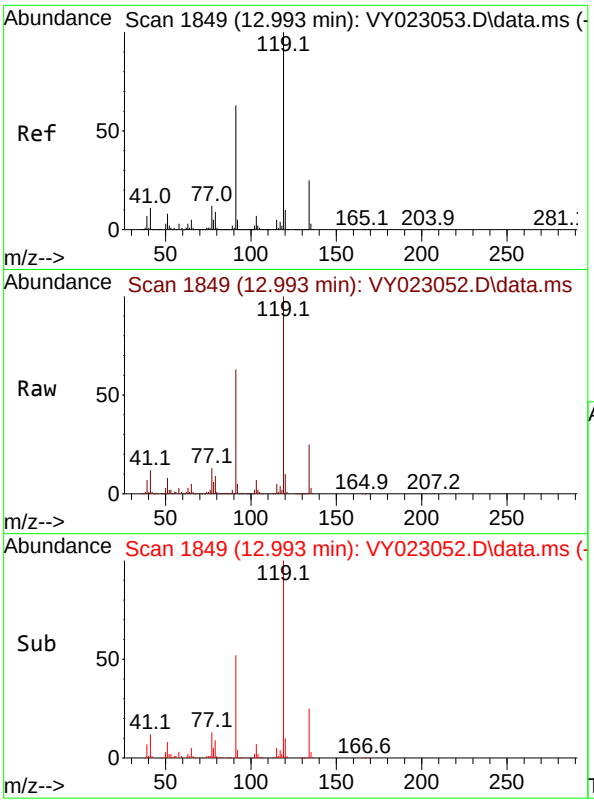


#82
4-Chlorotoluene
Concen: 20.822 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 385755

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.3	52.0



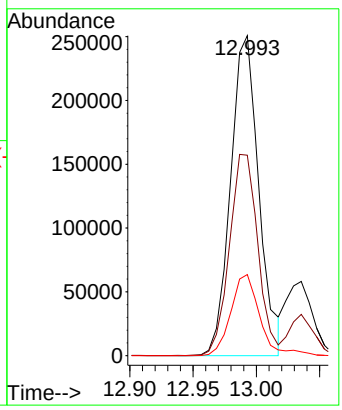


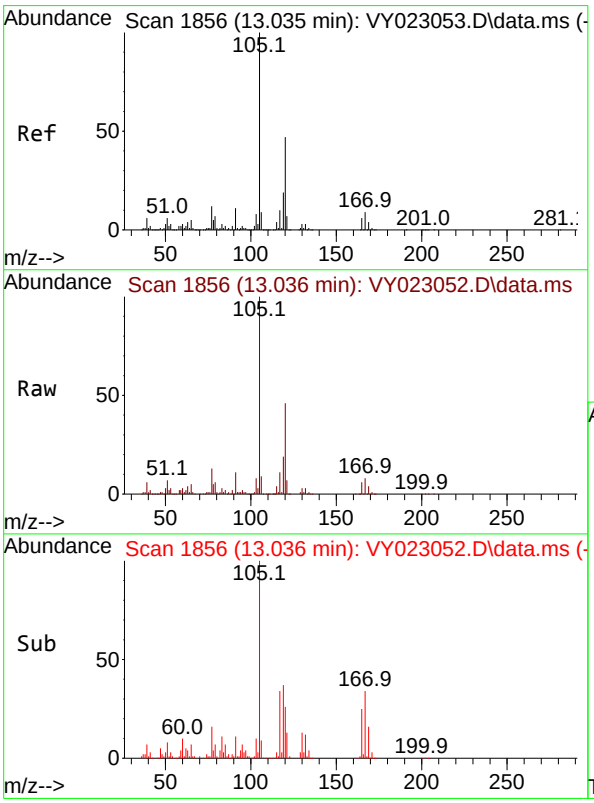
#83
tert-Butylbenzene
Concen: 20.389 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

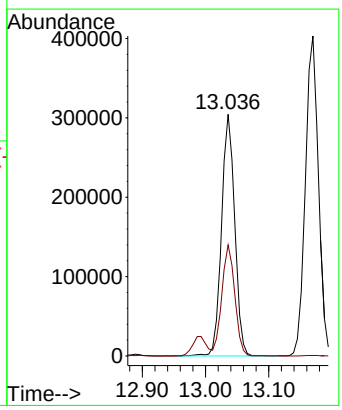


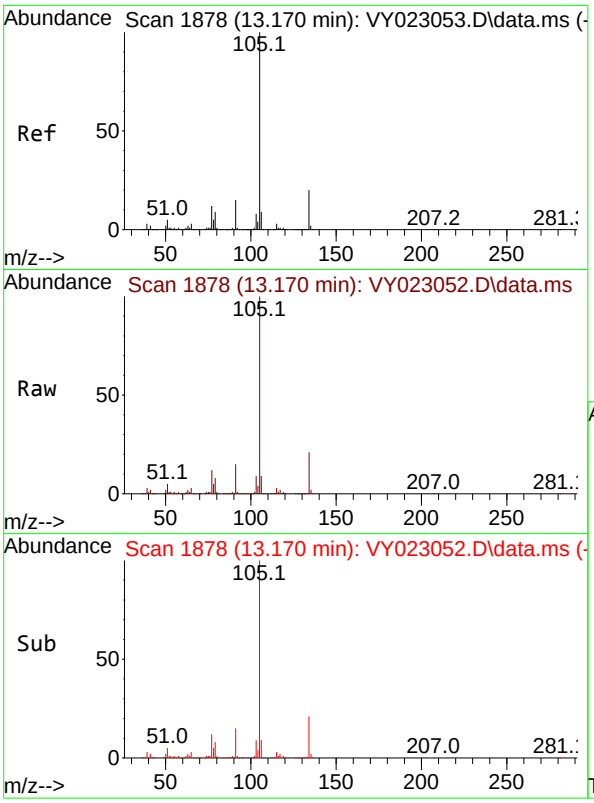


#84
1,2,4-Trimethylbenzene
Concen: 20.814 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 438392

Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.0	69.0



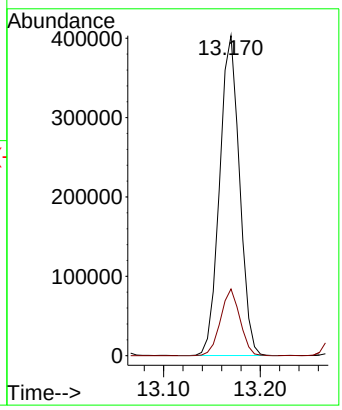


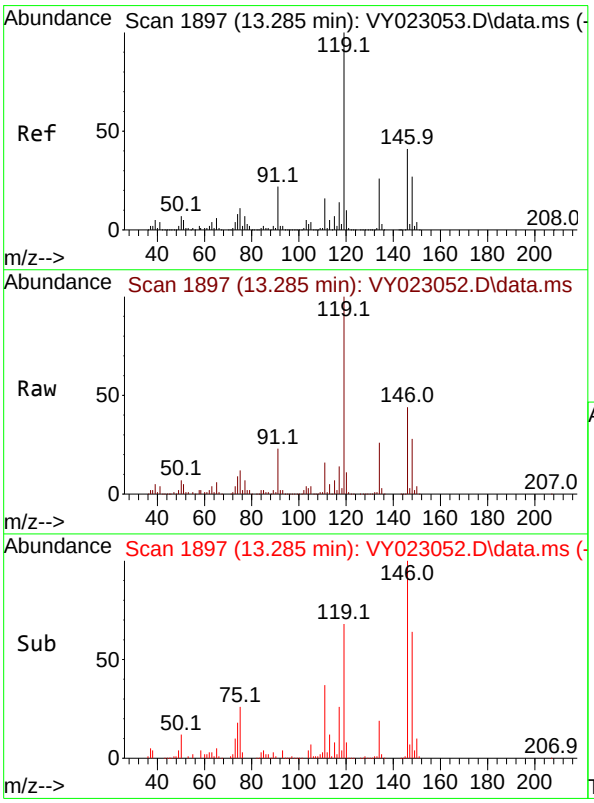
#85
sec-Butylbenzene
Concen: 20.512 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 575804

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4

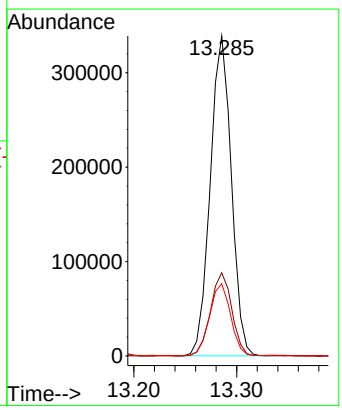


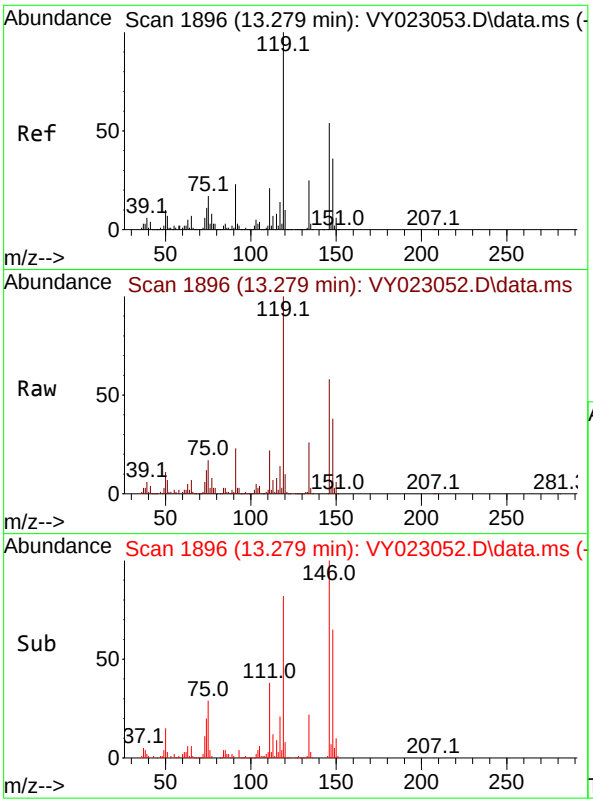


#86
p-Isopropyltoluene
Concen: 20.640 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



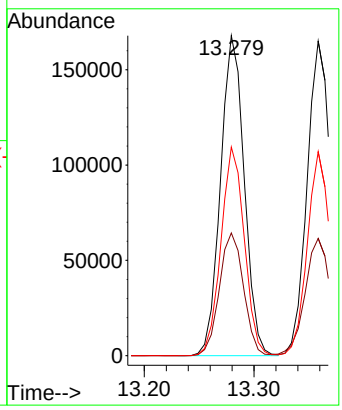


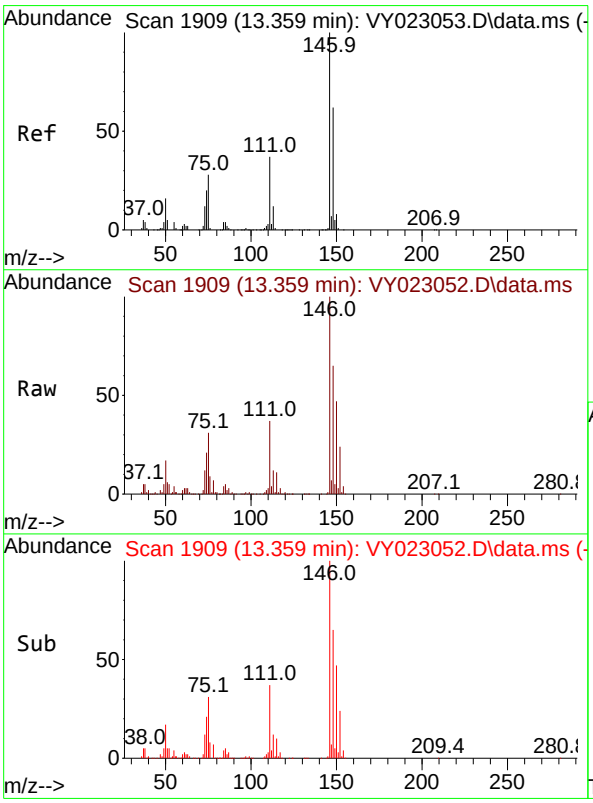
#87
1,3-Dichlorobenzene
Concen: 20.497 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

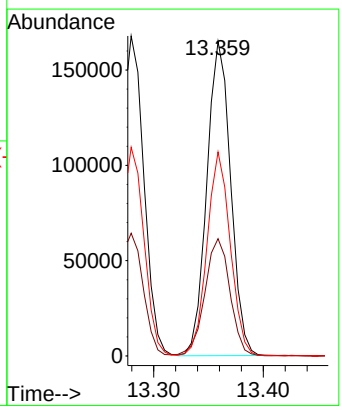


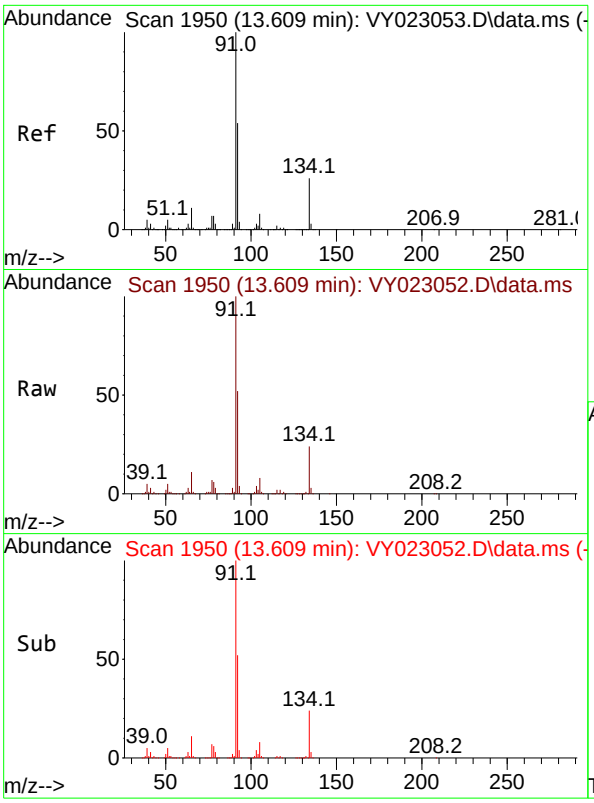


#88
1,4-Dichlorobenzene
Concen: 20.403 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



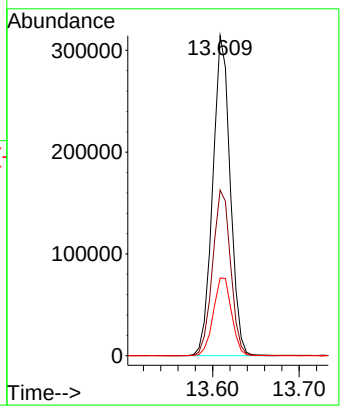


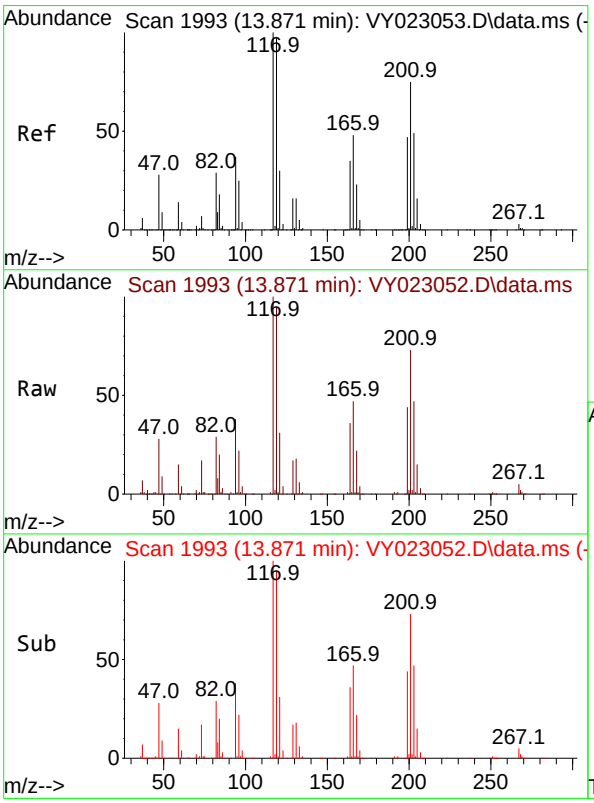
#89
n-Butylbenzene
Concen: 20.605 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

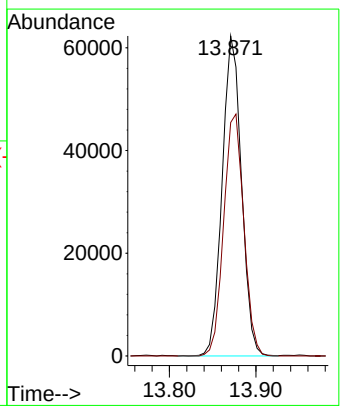


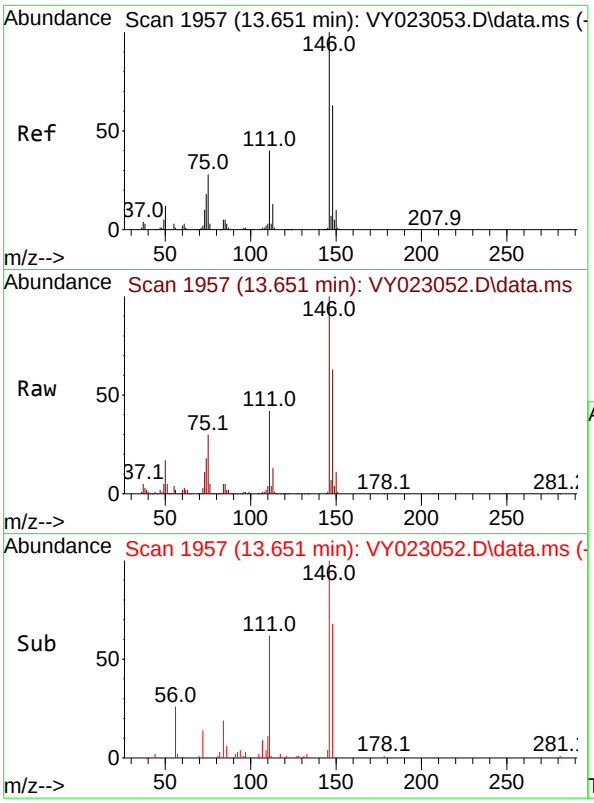


#90
Hexachloroethane
Concen: 20.226 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 96478

Ion	Ratio	Lower	Upper
117	100		
201	78.5	38.4	115.1



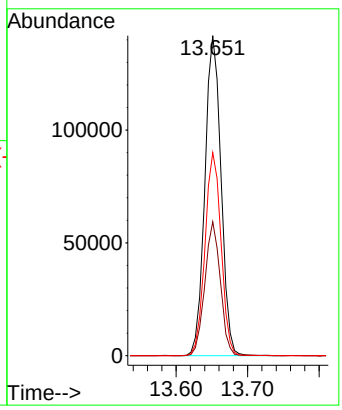


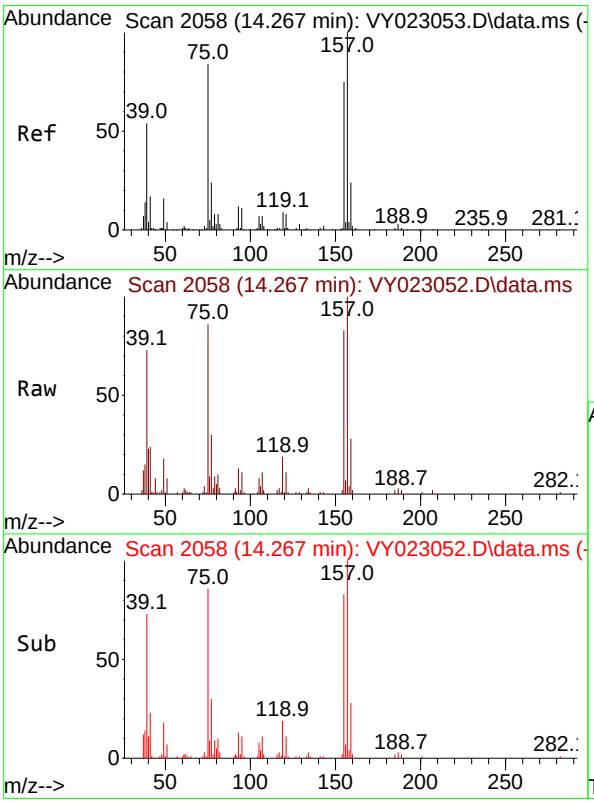
#91
1,2-Dichlorobenzene
Concen: 20.552 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

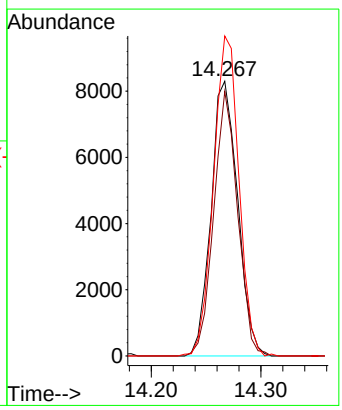


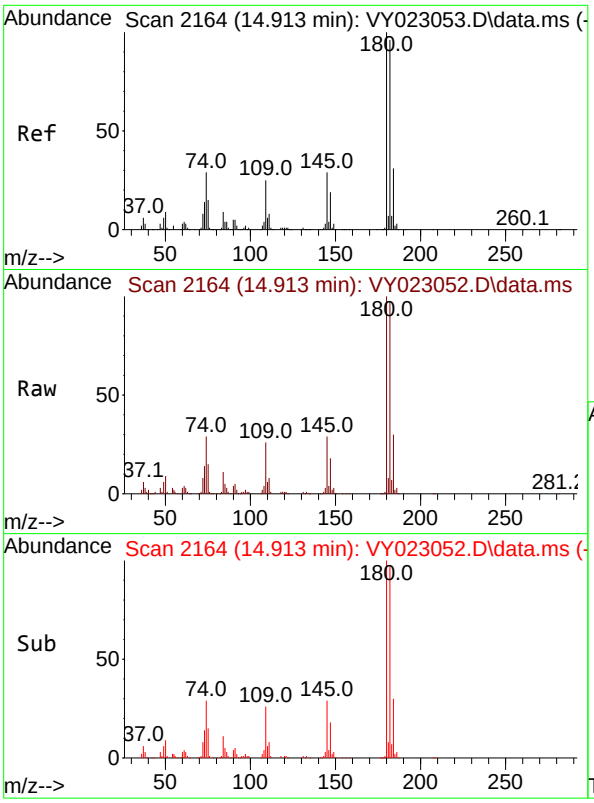


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.076 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



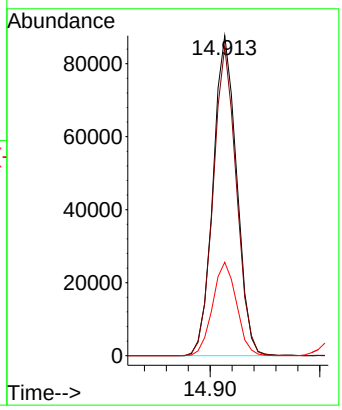


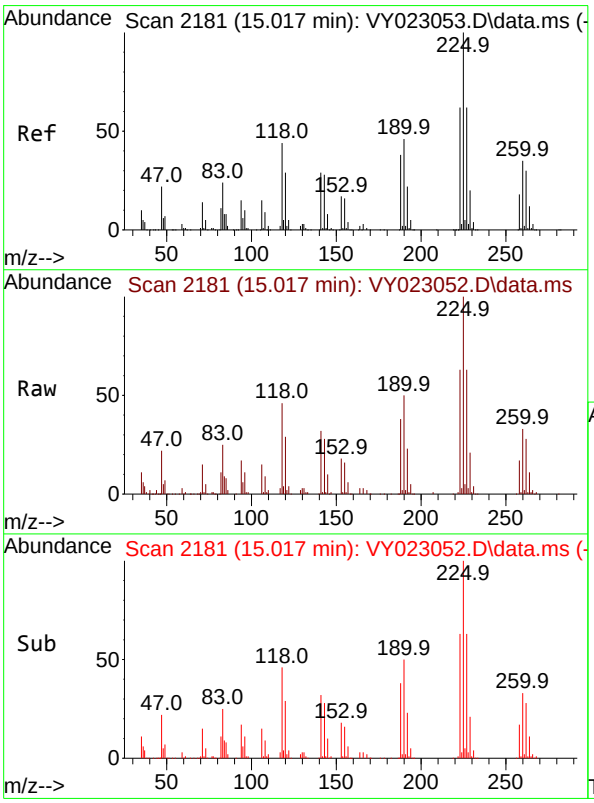
#93
1,2,4-Trichlorobenzene
Concen: 20.464 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

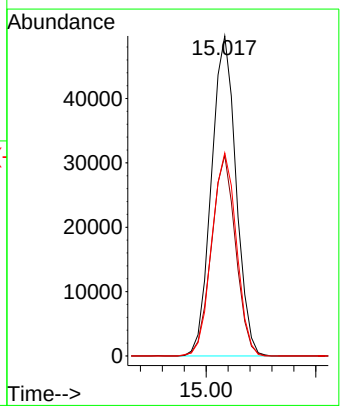


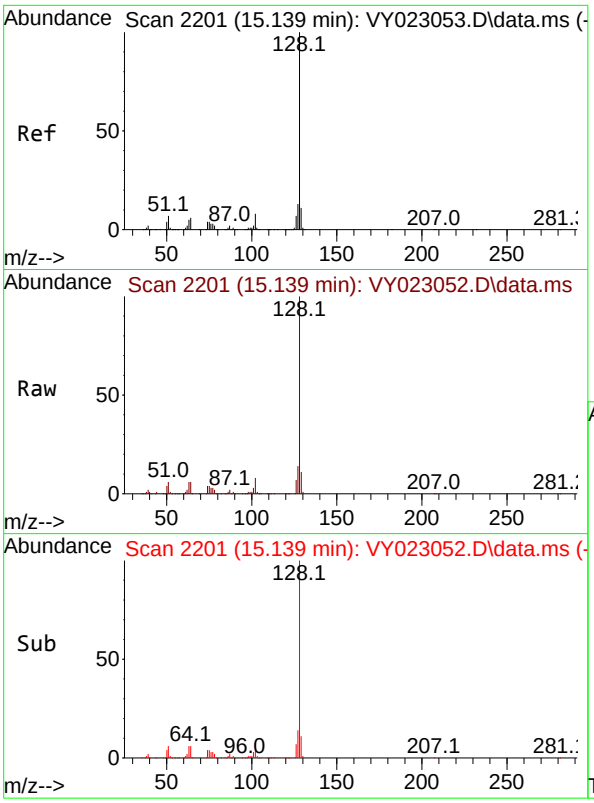


#94
Hexachlorobutadiene
Concen: 20.650 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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



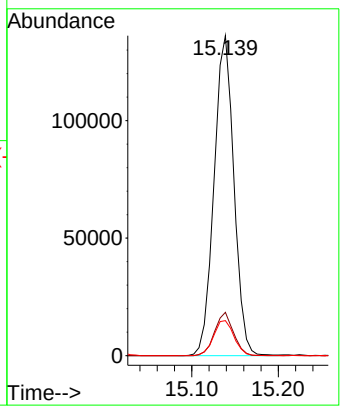


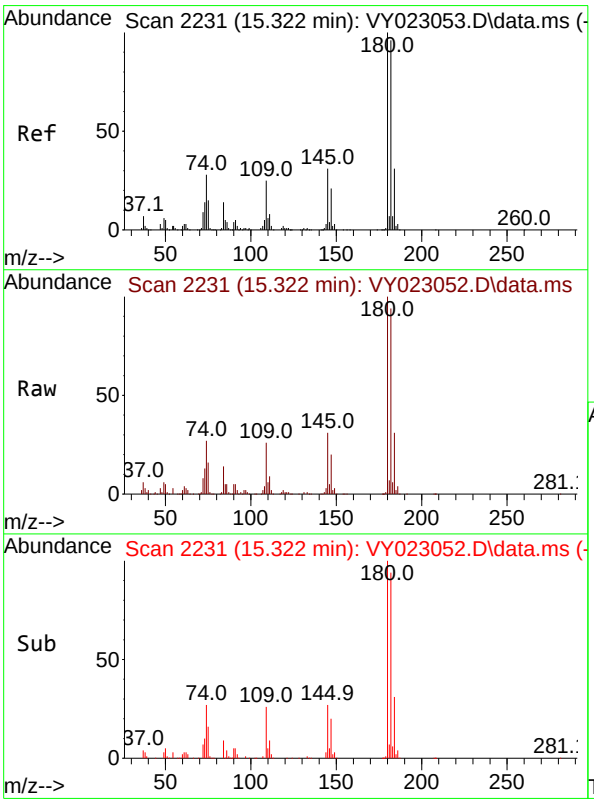
#95
Naphthalene
Concen: 19.915 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

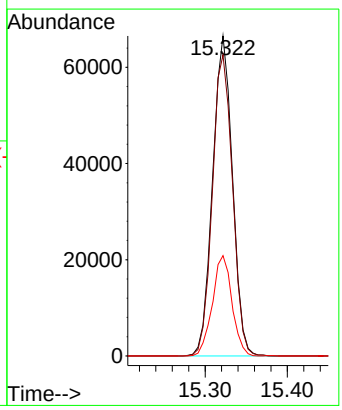




#96
1,2,3-Trichlorobenzene
Concen: 20.258 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

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

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)
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

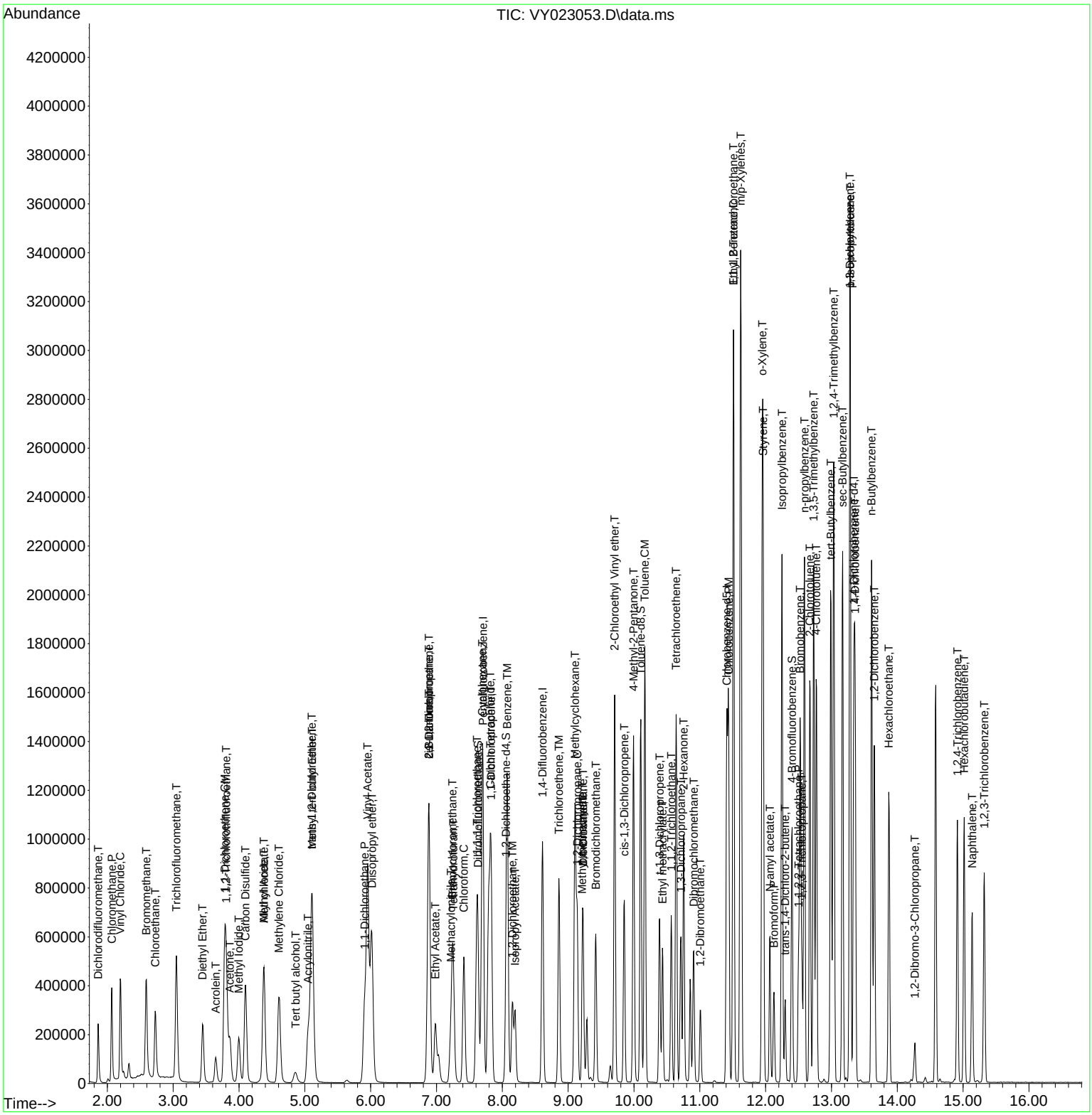
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

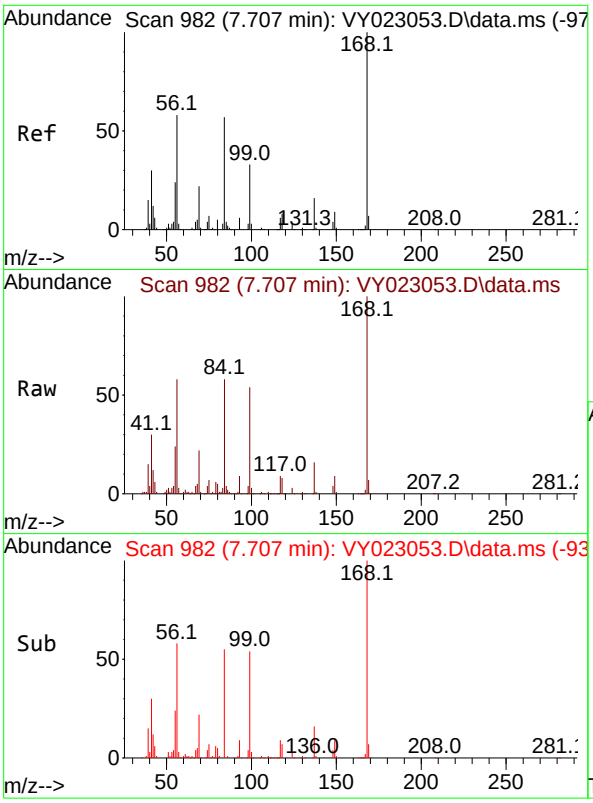
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



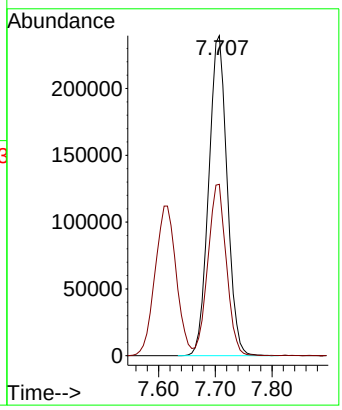


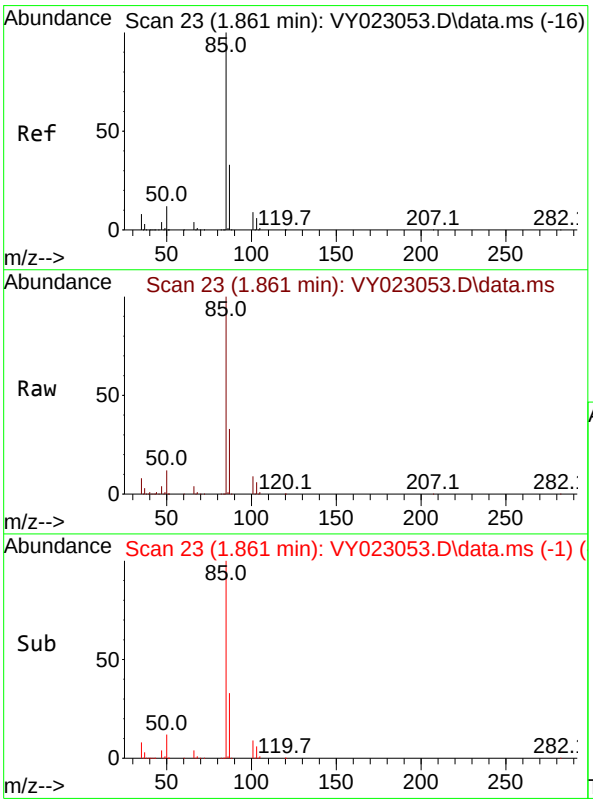
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 539282

Ion	Ratio	Lower	Upper
168	100		
99	53.5	42.8	64.2

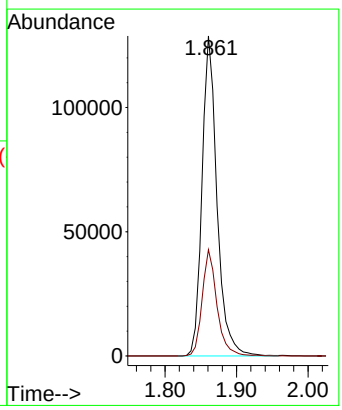


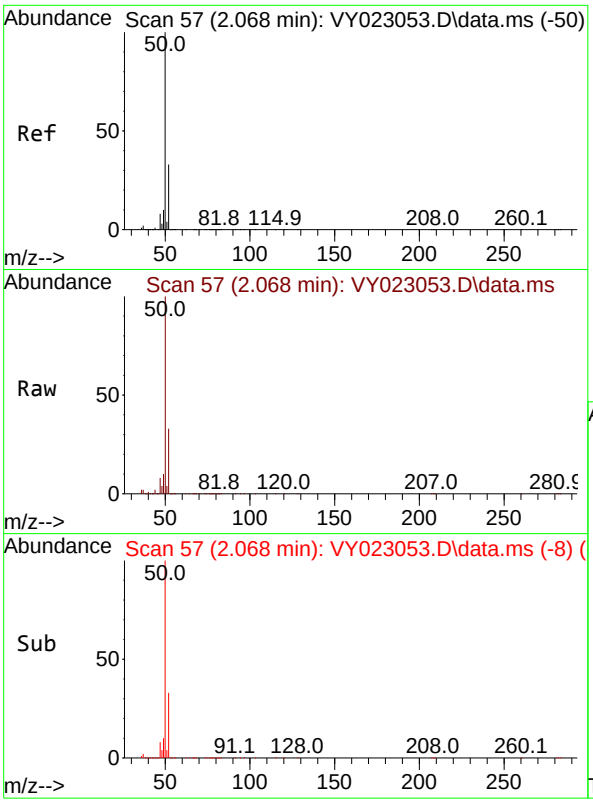


#2
Dichlorodifluoromethane
Concen: 42.677 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 85 Resp: 187863

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.6	49.8



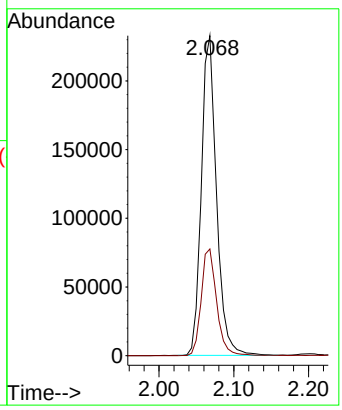


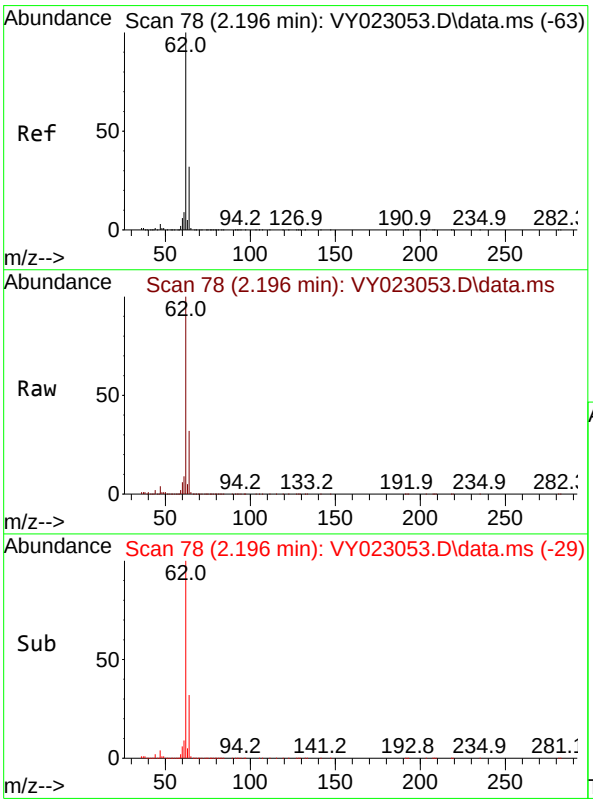
#3
Chloromethane
Concen: 45.932 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 327481

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.7	40.1

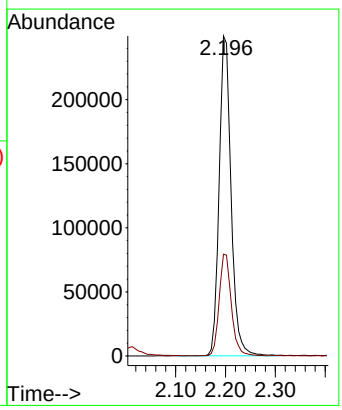


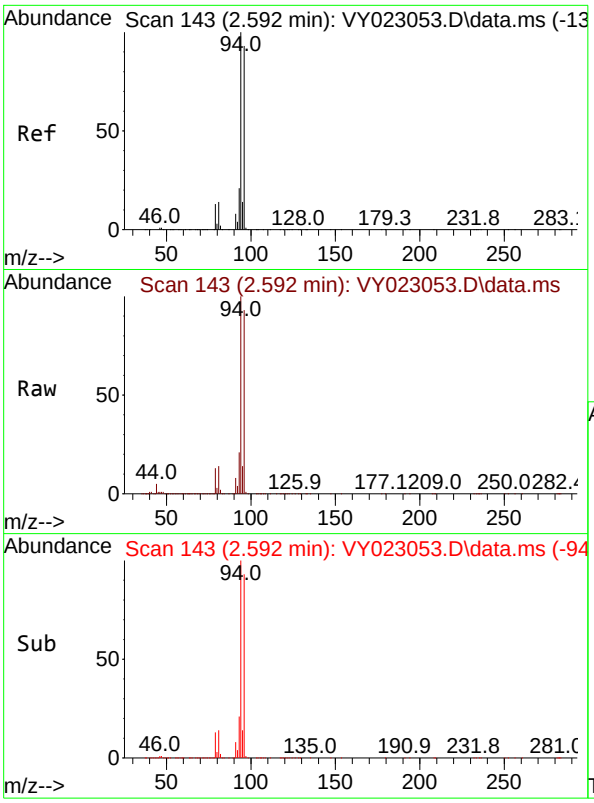


#4
Vinyl Chloride
Concen: 47.044 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 414609

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.4	38.0



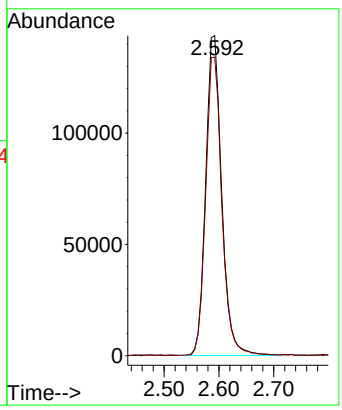


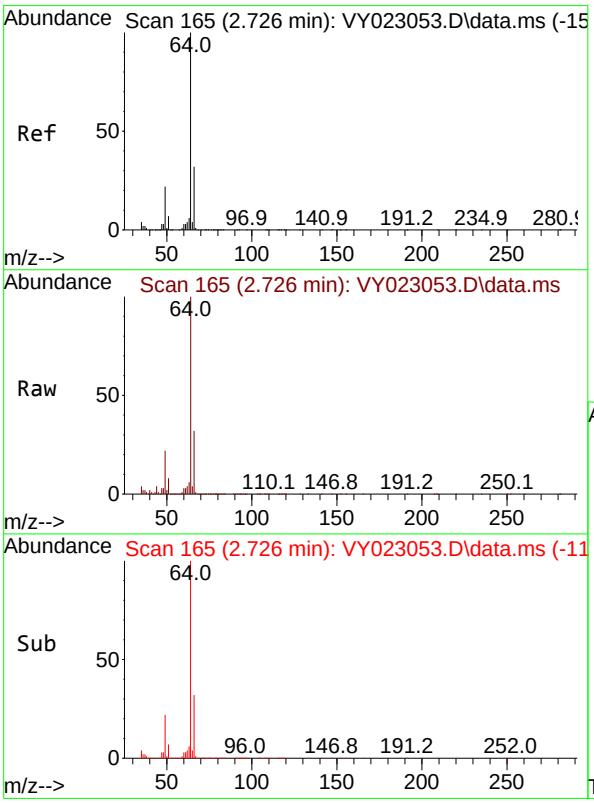
#5
Bromomethane
Concen: 44.263 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 291336

Ion	Ratio	Lower	Upper
94	100		
96	93.3	74.6	112.0

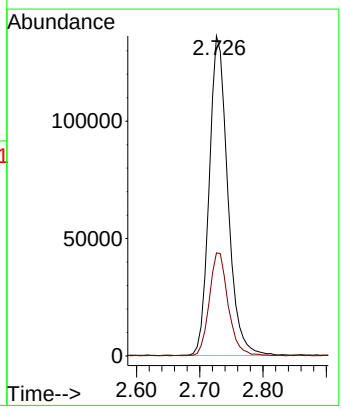


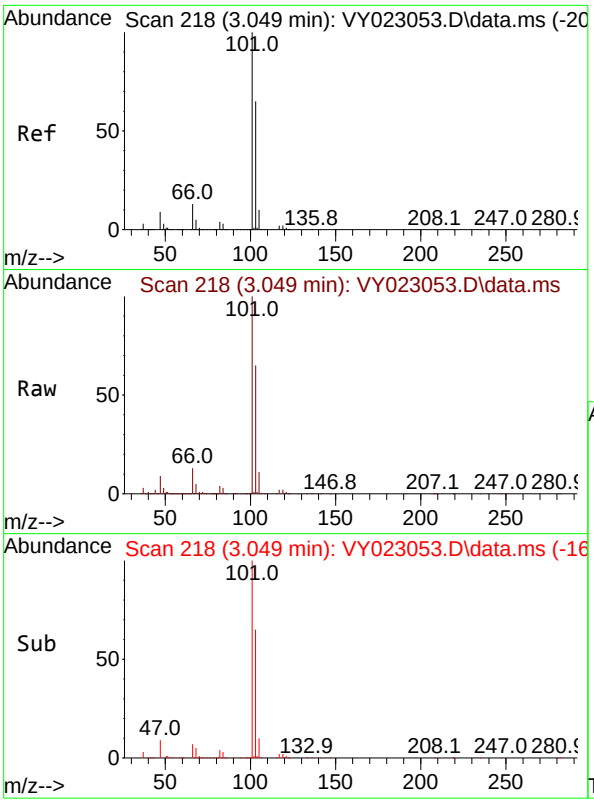


#6
Chloroethane
Concen: 47.394 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 64 Resp: 277698

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.8	38.6



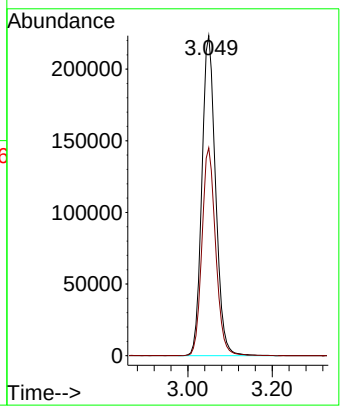


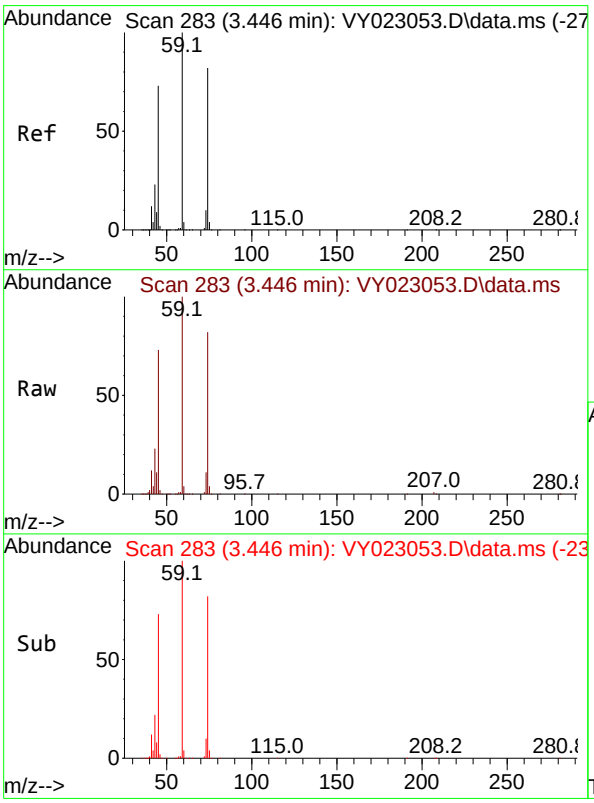
#7
Trichlorofluoromethane
Concen: 47.136 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 505137

Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.9	77.9

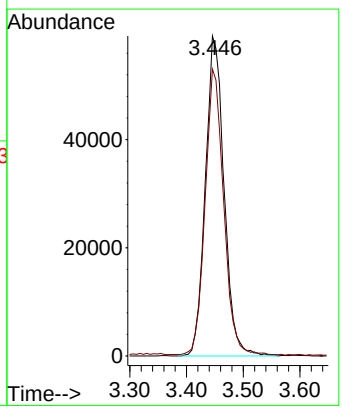


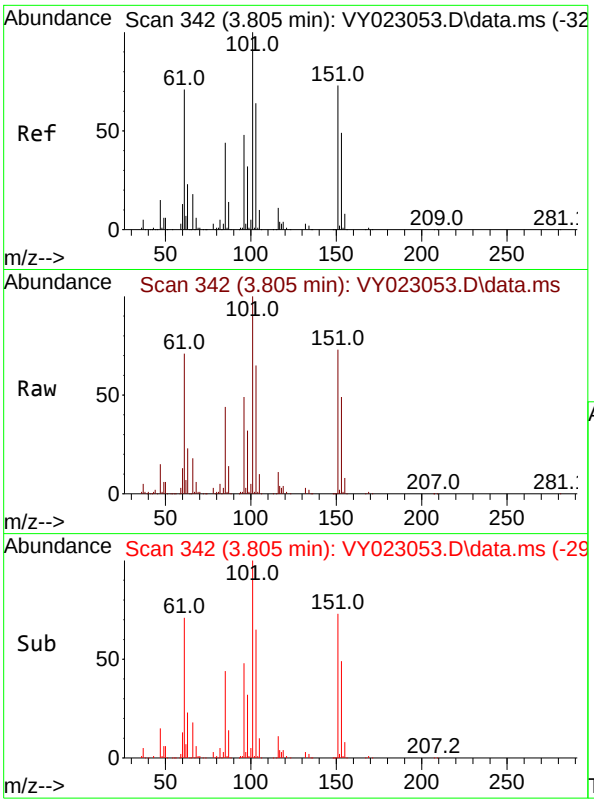


#8
Diethyl Ether
Concen: 47.747 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 74 Resp: 135373

Ion	Ratio	Lower	Upper
74	100		
45	88.8	44.4	133.2



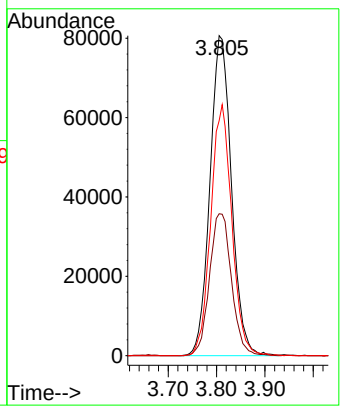


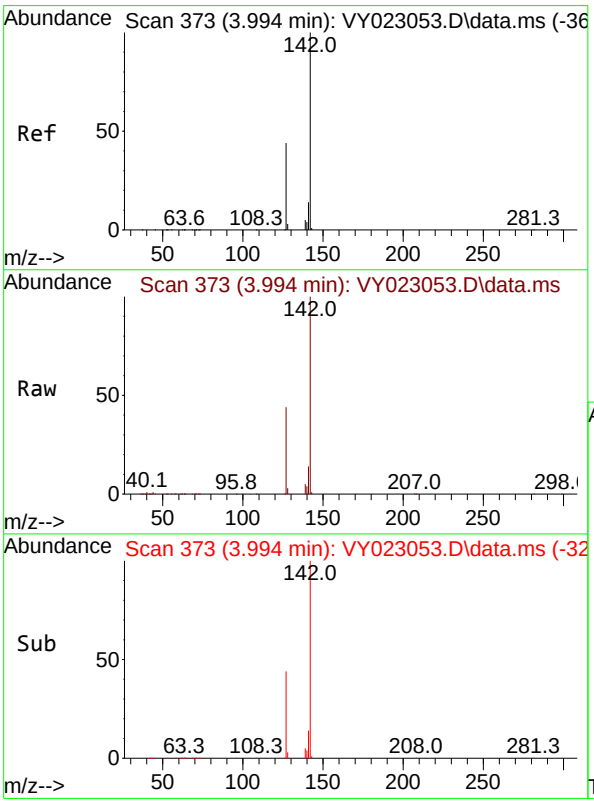
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.109 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

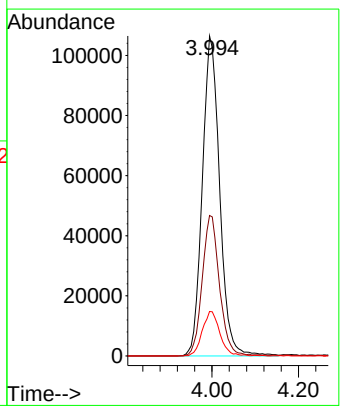


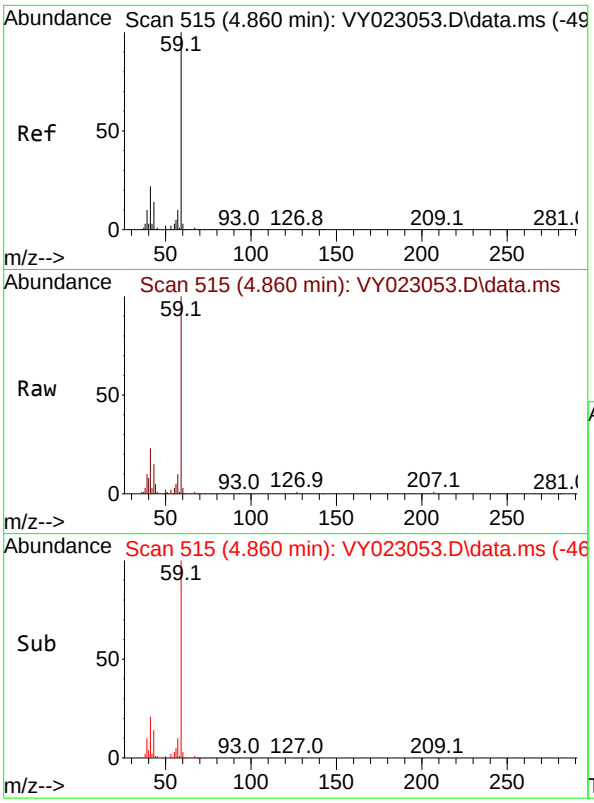


#10
Methyl Iodide
Concen: 51.899 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



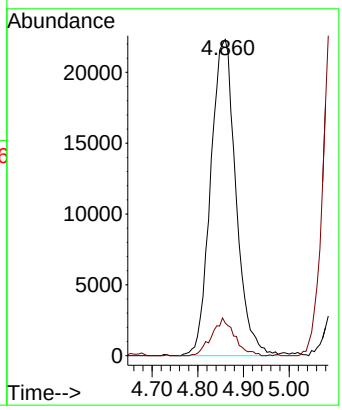


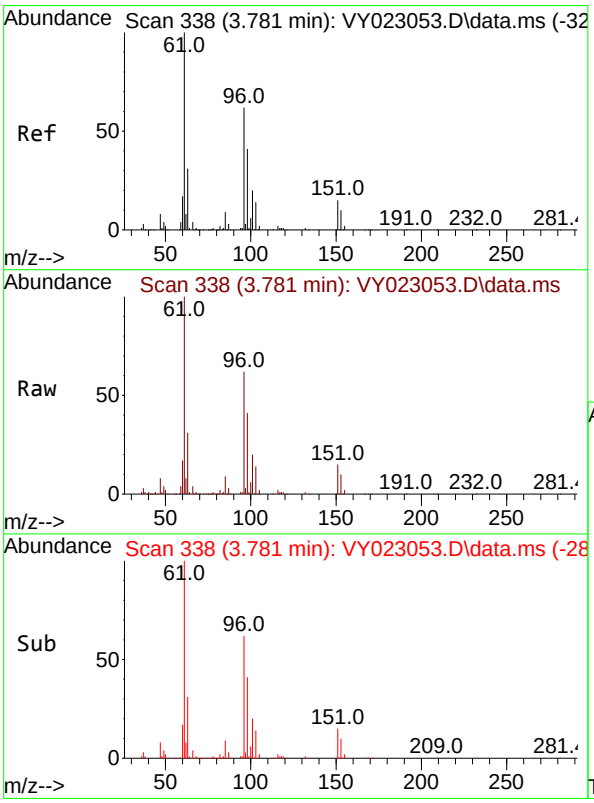
#11
Tert butyl alcohol
Concen: 243.383 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 85712

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

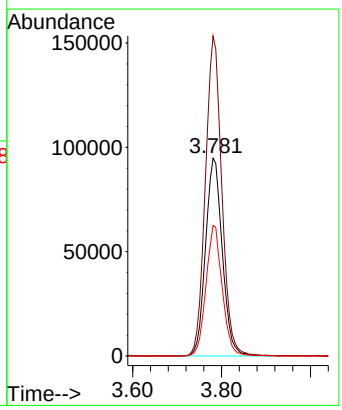


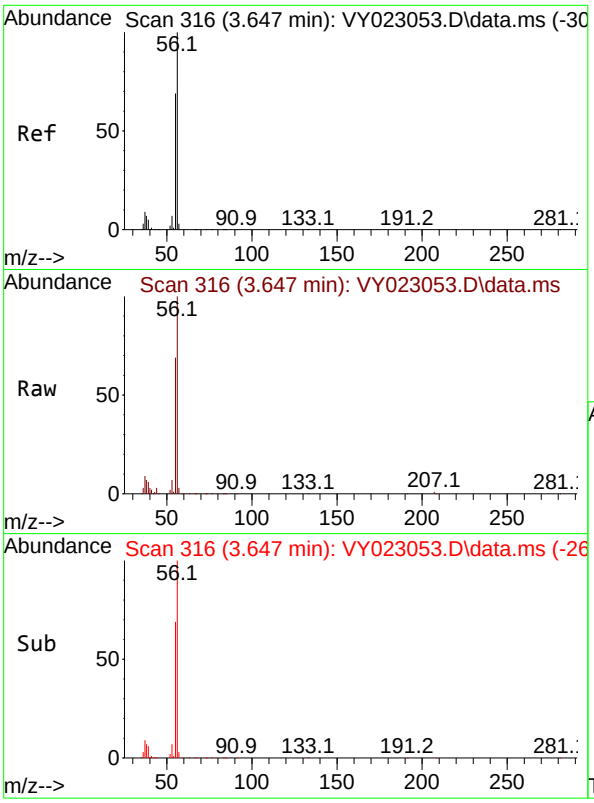


#12
1,1-Dichloroethene
Concen: 48.009 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



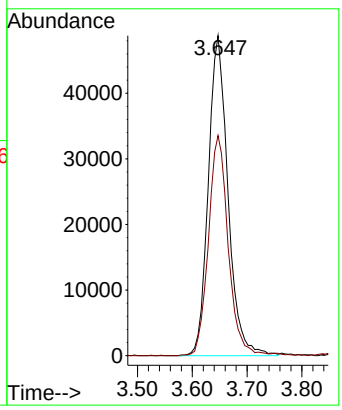


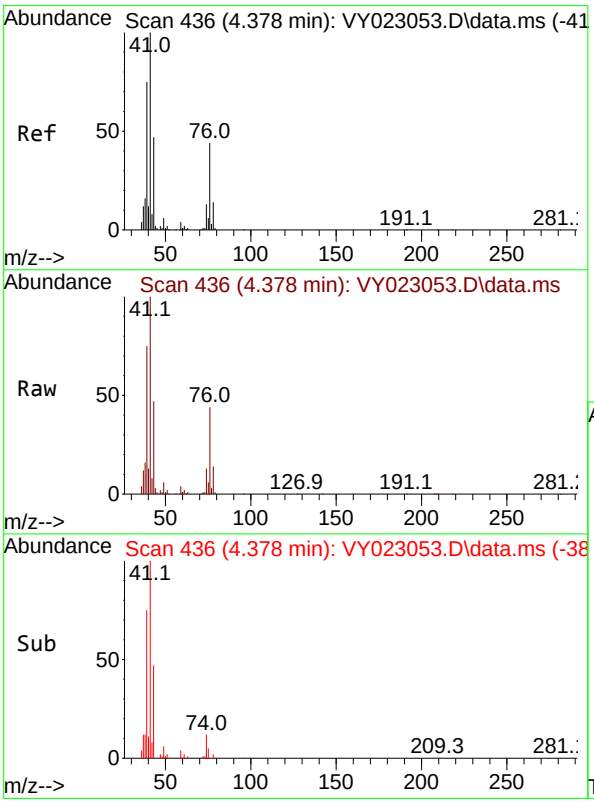
#13
Acrolein
Concen: 234.966 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 121185

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.2	82.8

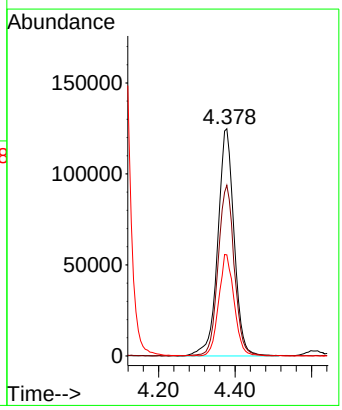


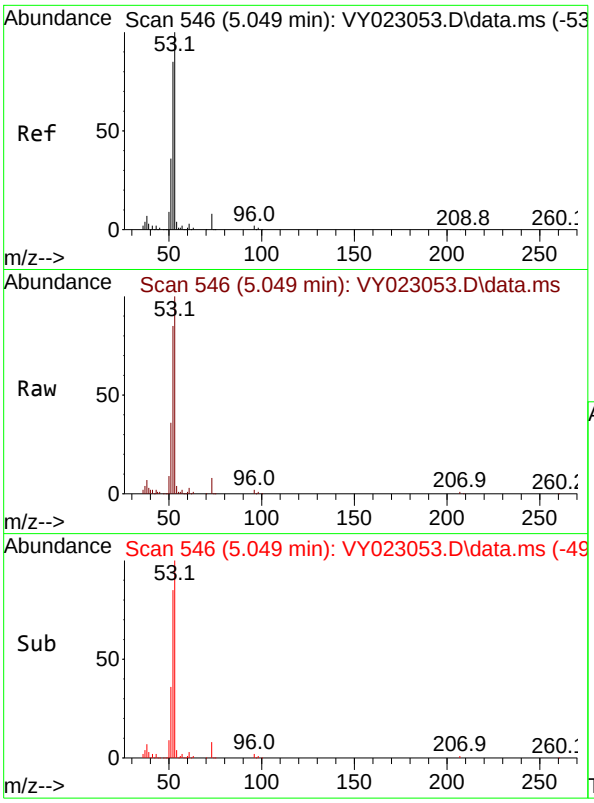


#14
Allyl chloride
Concen: 48.350 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



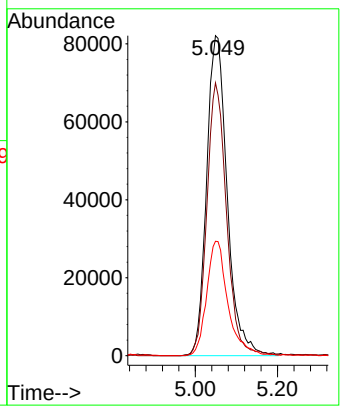


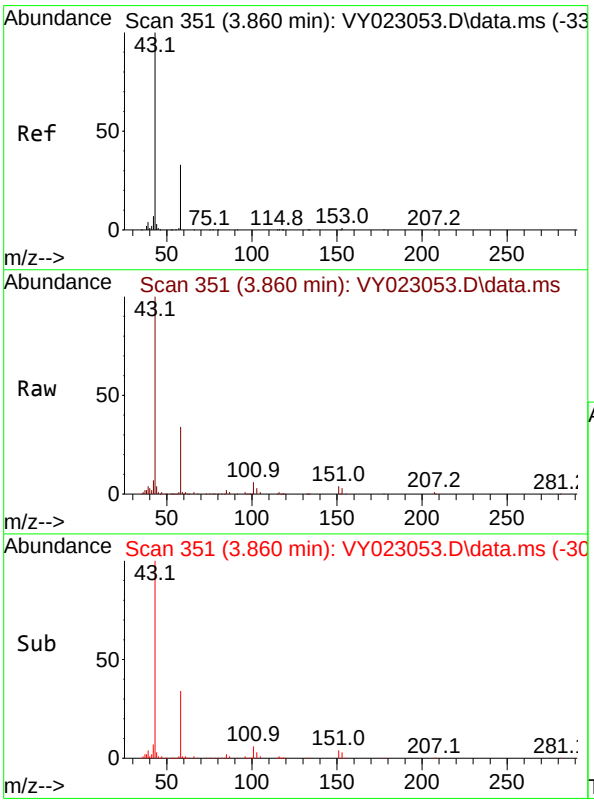
#15
Acrylonitrile
Concen: 247.839 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

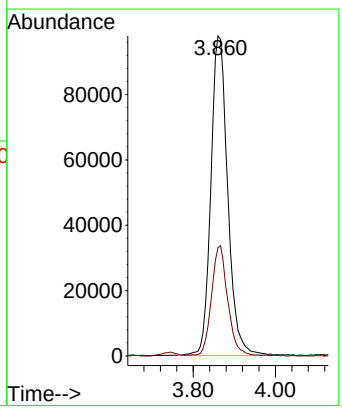


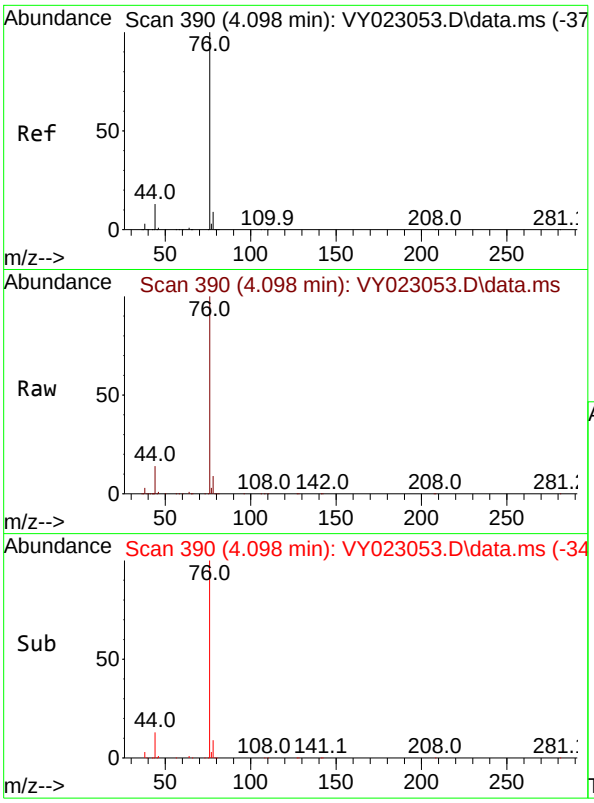


#16
Acetone
Concen: 250.122 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 278510

Ion	Ratio	Lower	Upper
43	100		
58	33.9	27.1	40.7



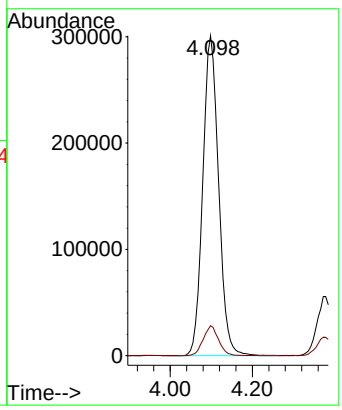


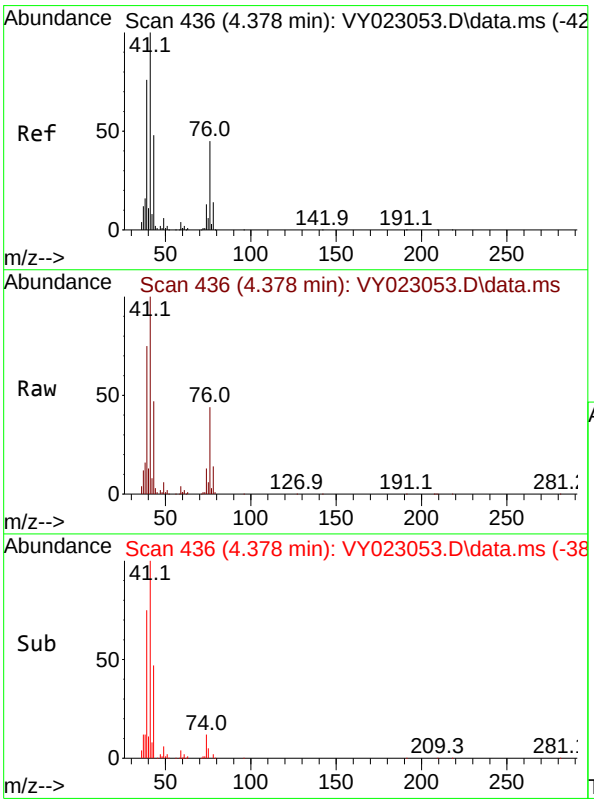
#17
Carbon Disulfide
Concen: 47.456 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 804119

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.2

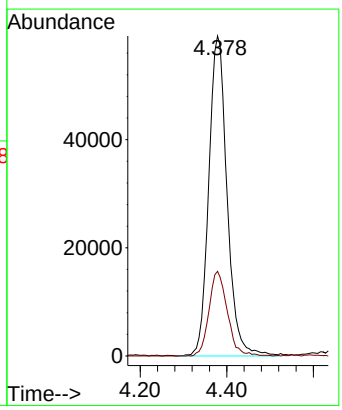


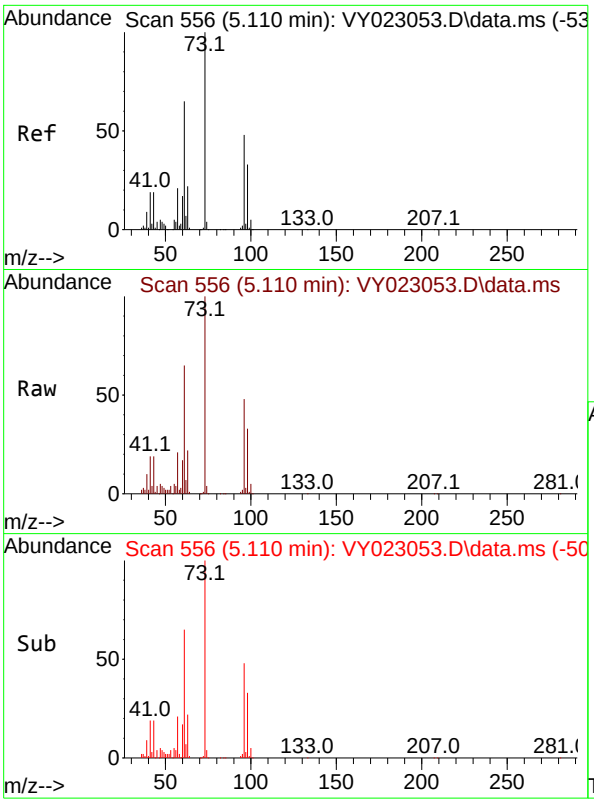


#18
Methyl Acetate
Concen: 52.403 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 173642

Ion	Ratio	Lower	Upper
43	100		
74	26.5	21.2	31.8



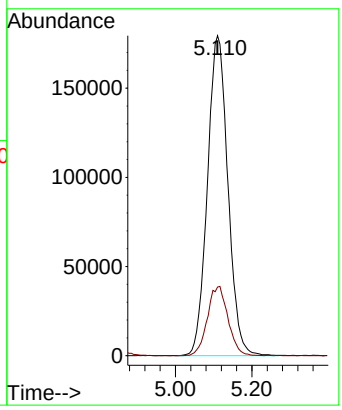


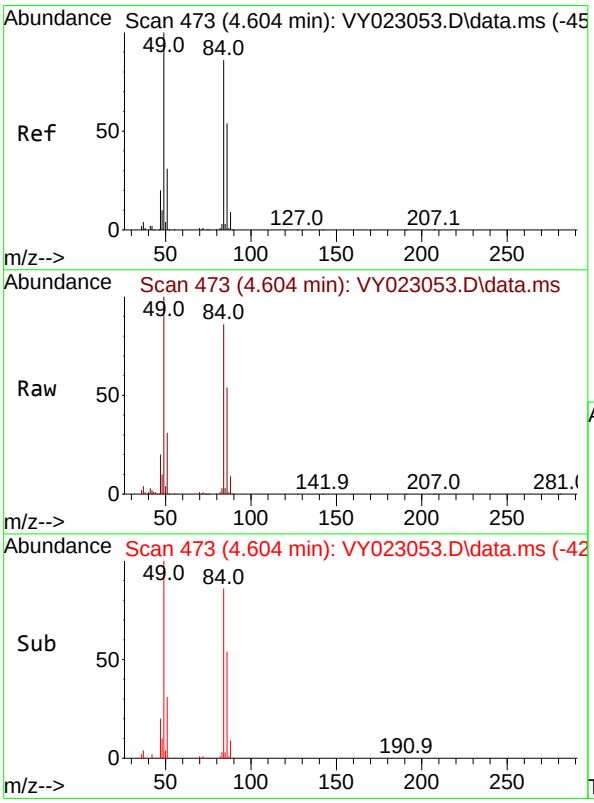
#19
Methyl tert-butyl Ether
Concen: 49.495 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 666514

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.1	25.7

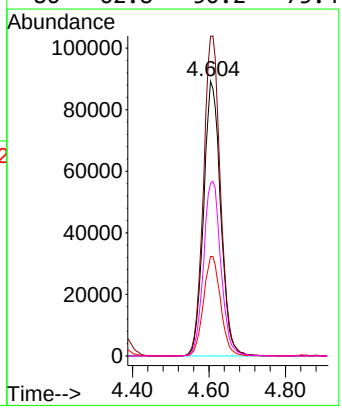


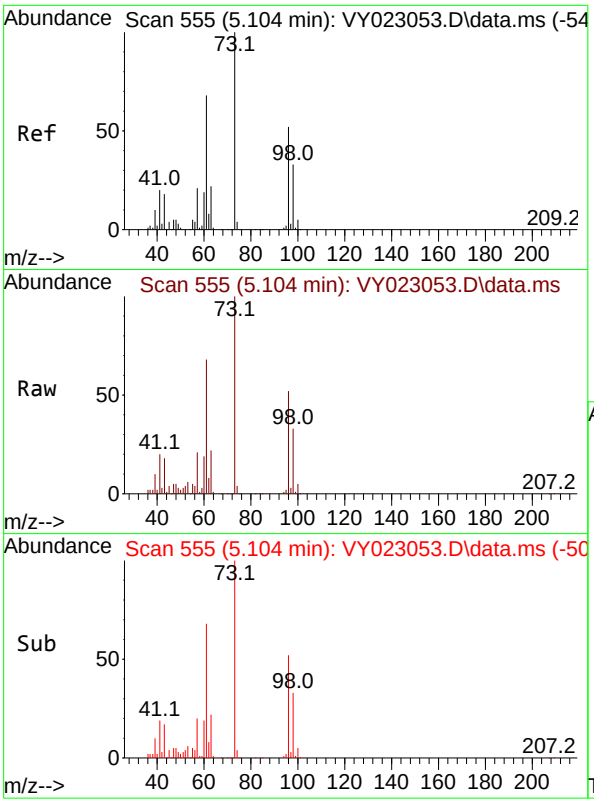


#20
Methylene Chloride
Concen: 47.415 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



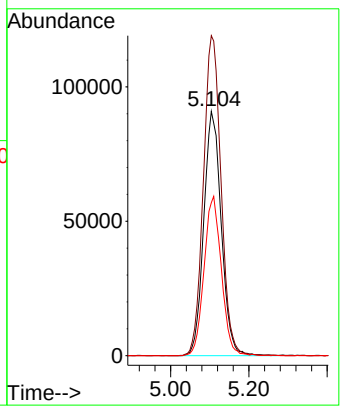


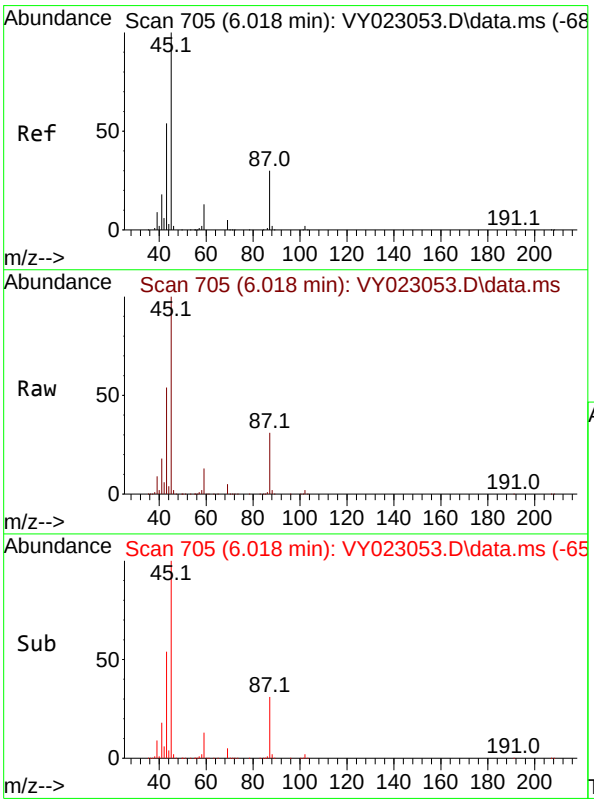
#21
trans-1,2-Dichloroethene
Concen: 48.334 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

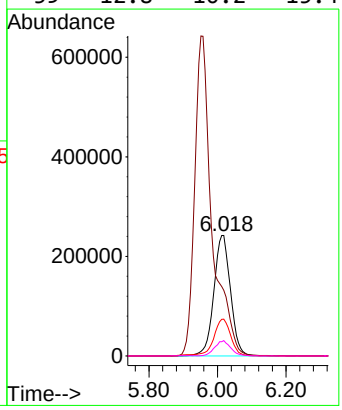


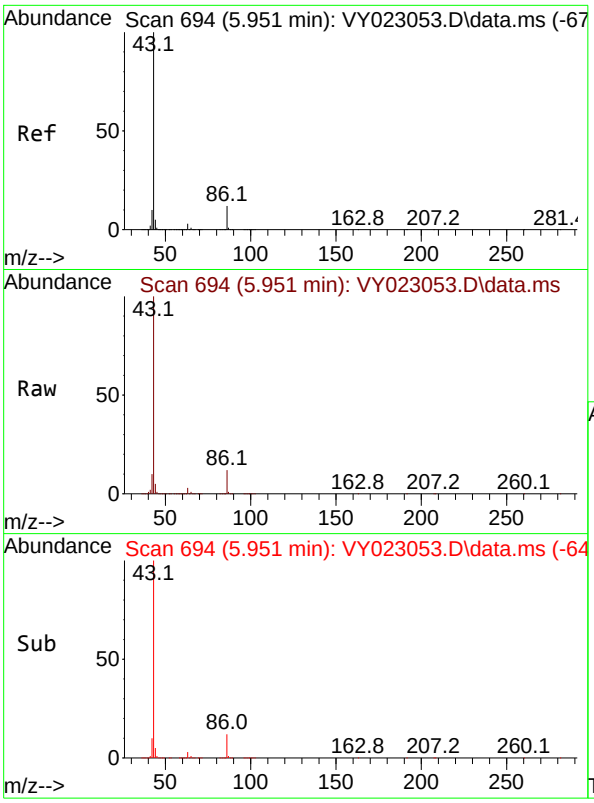


#22
Diisopropyl ether
Concen: 49.070 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



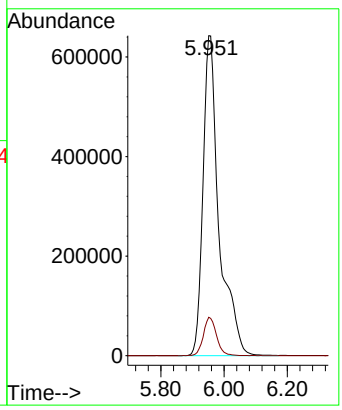


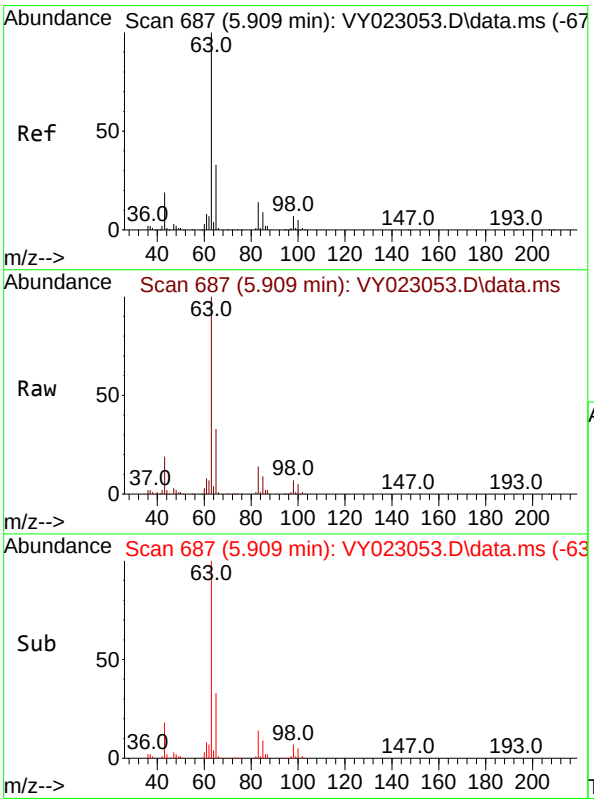
#23
Vinyl Acetate
Concen: 246.849 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 2268046

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.6	14.4

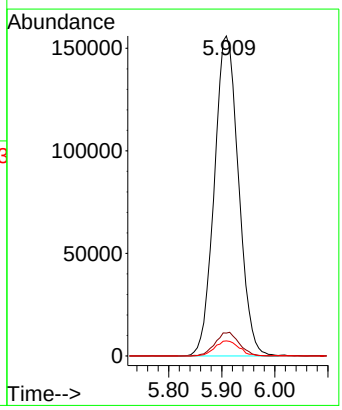


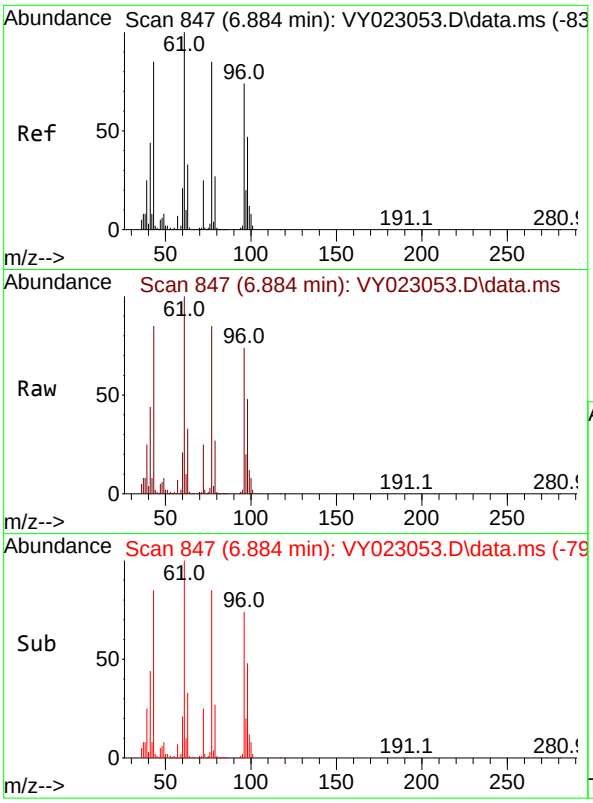


#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



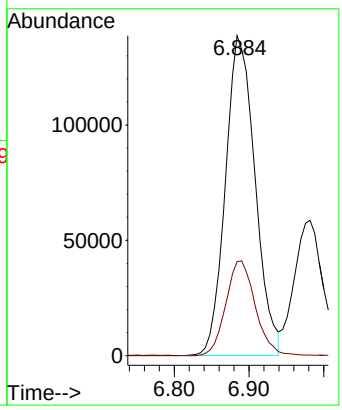


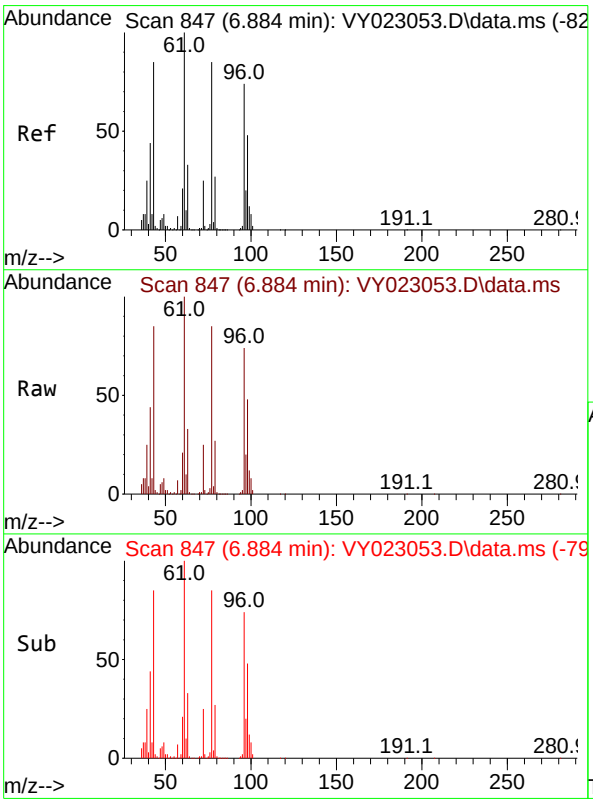
#25
2-Butanone
Concen: 252.715 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 382711

Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.5	35.3

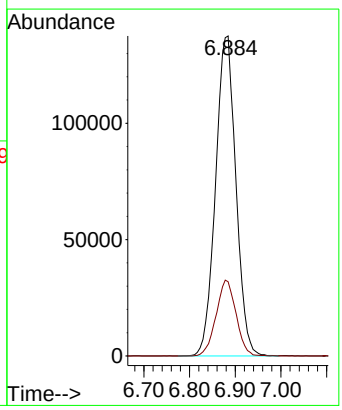


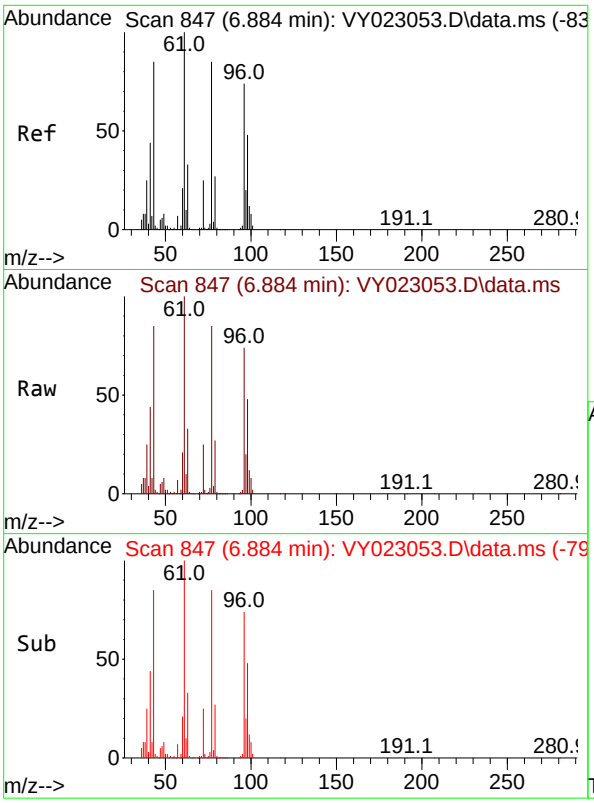


#26
2,2-Dichloropropane
Concen: 48.571 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 77 Resp: 425773

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8



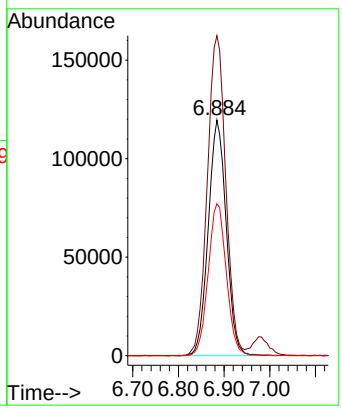


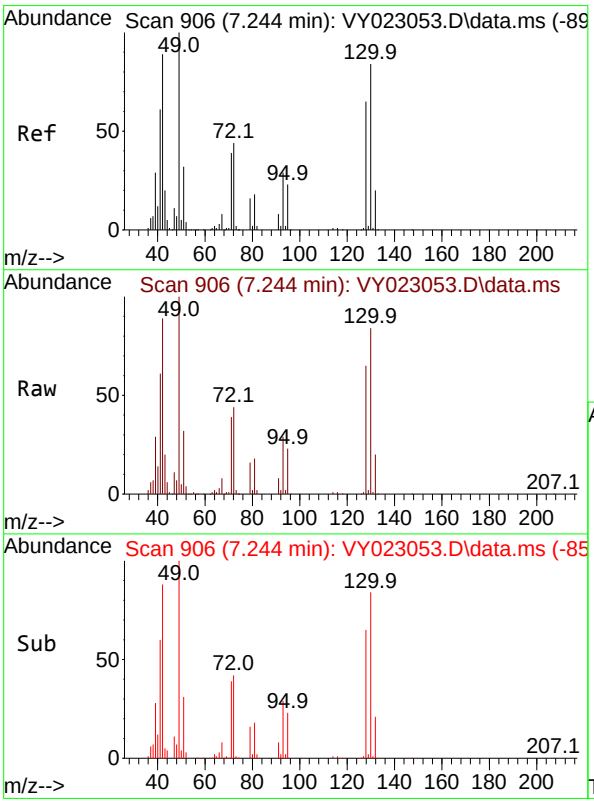
#27
cis-1,2-Dichloroethene
Concen: 48.474 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

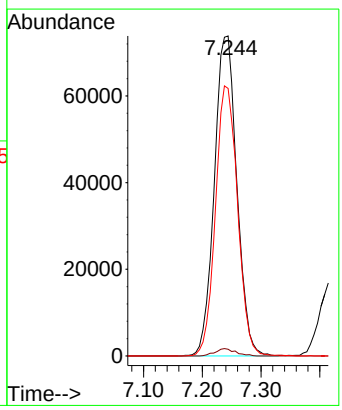


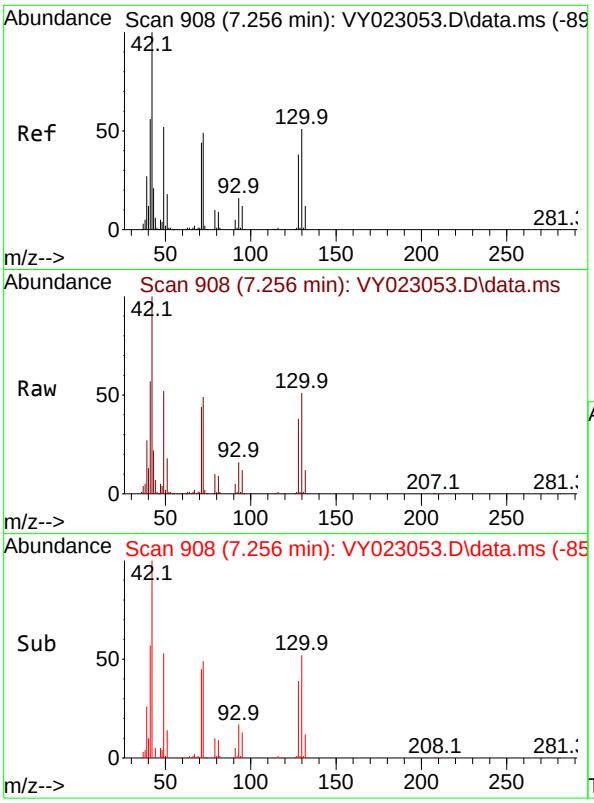


#28
Bromochloromethane
Concen: 48.795 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



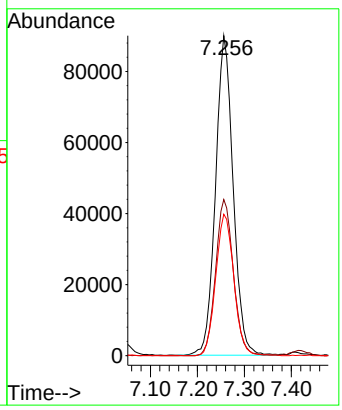


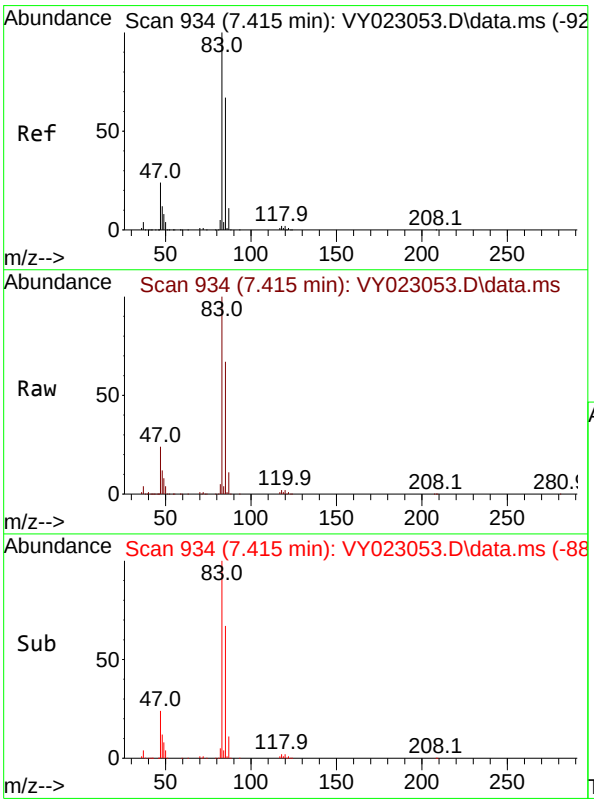
#29
Tetrahydrofuran
Concen: 250.523 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

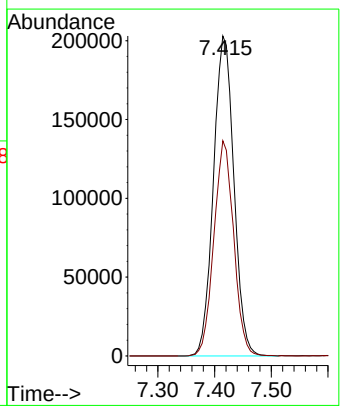


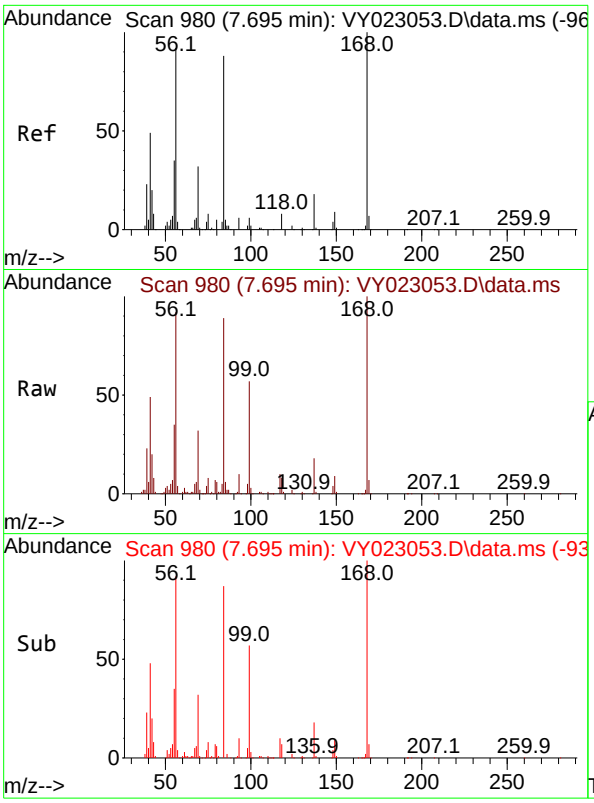


#30
Chloroform
Concen: 48.547 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 508641

Ion	Ratio	Lower	Upper
83	100		
85	67.3	53.8	80.8



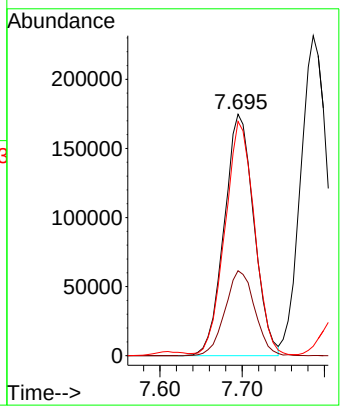


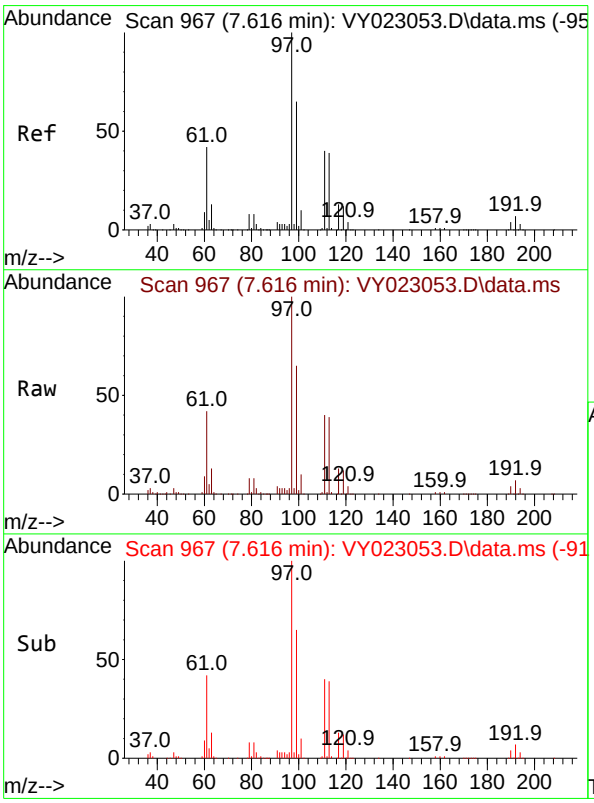
#31
Cyclohexane
Concen: 45.989 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

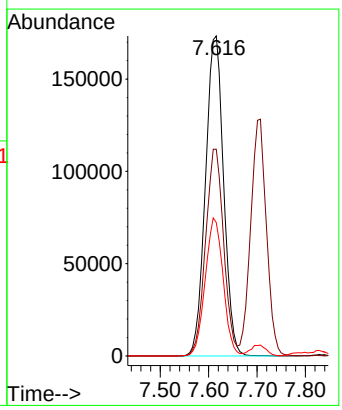


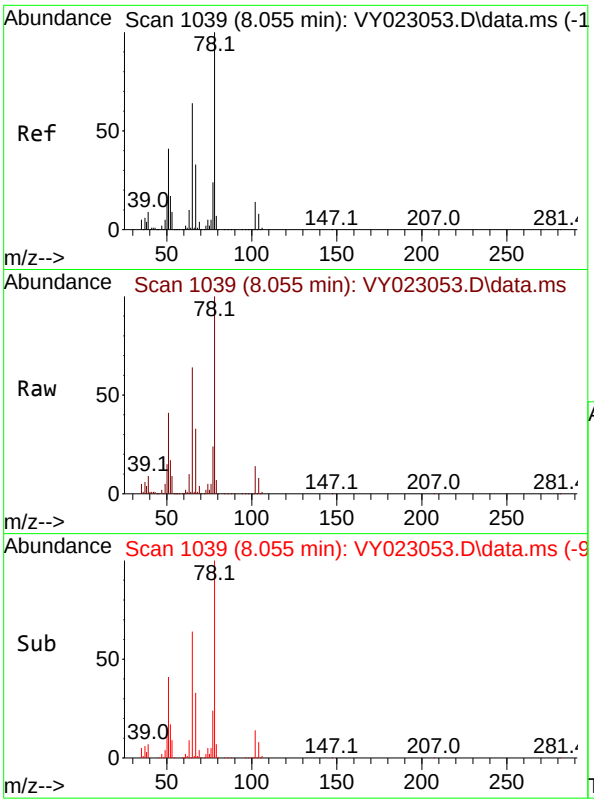


#32
1,1,1-Trichloroethane
Concen: 48.569 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



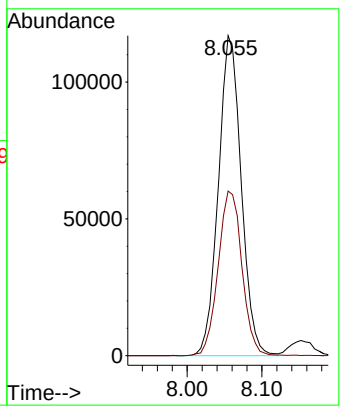


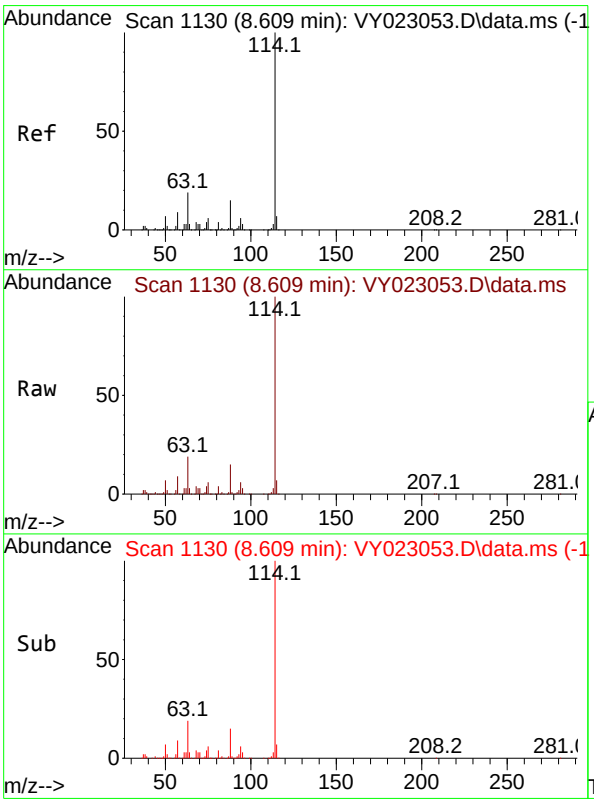
#33
1,2-Dichloroethane-d4
Concen: 48.455 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 249044

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

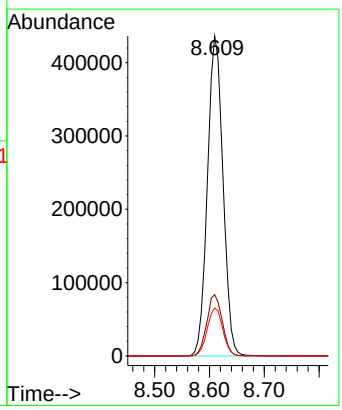


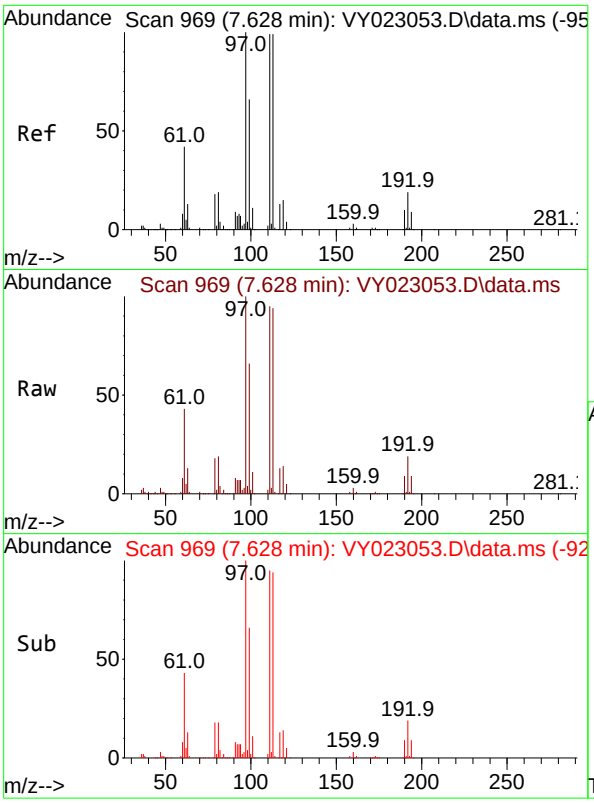


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



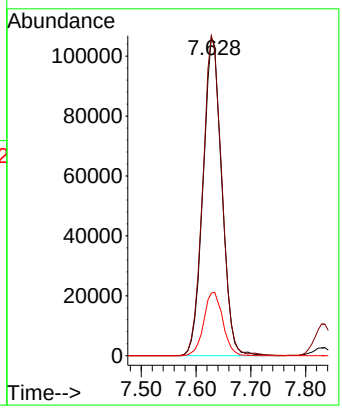


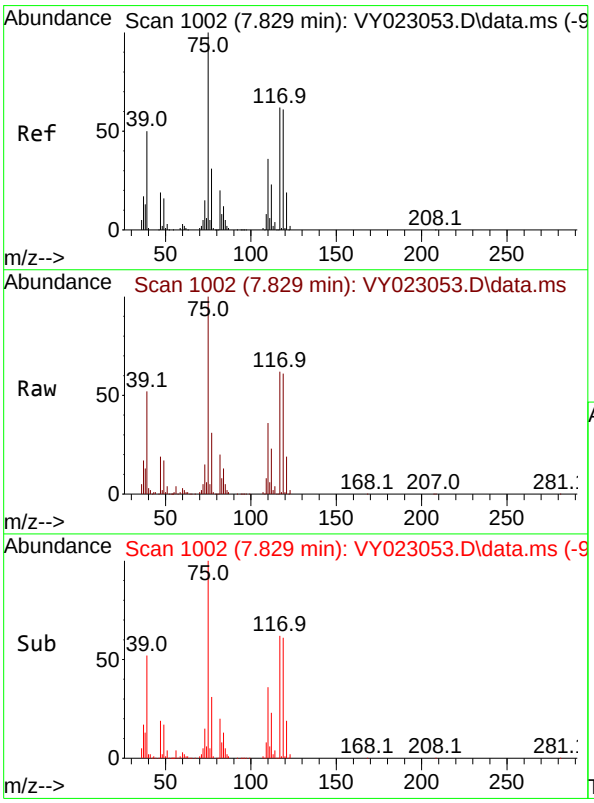
#35
Dibromofluoromethane
Concen: 49.010 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

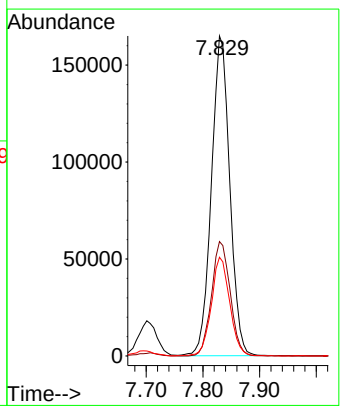


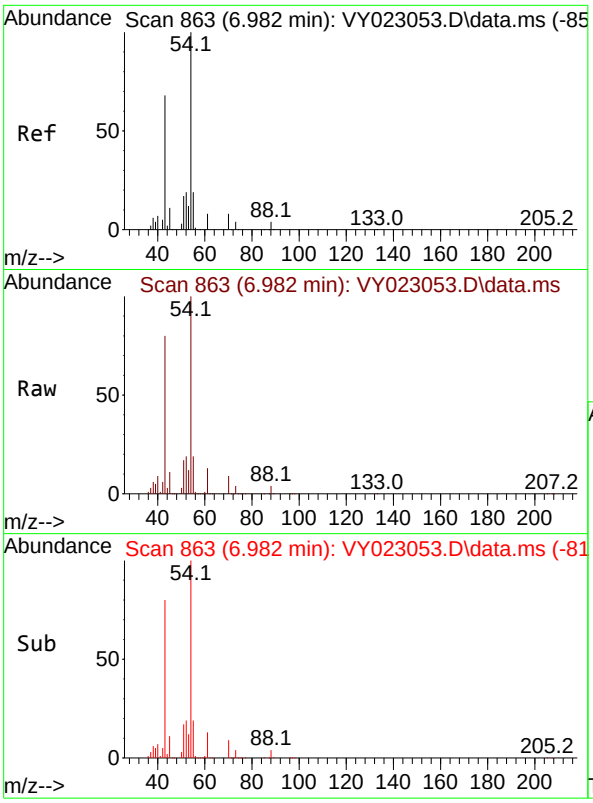


#36
1,1-Dichloropropene
Concen: 48.734 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



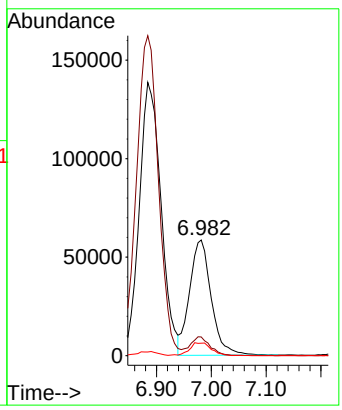


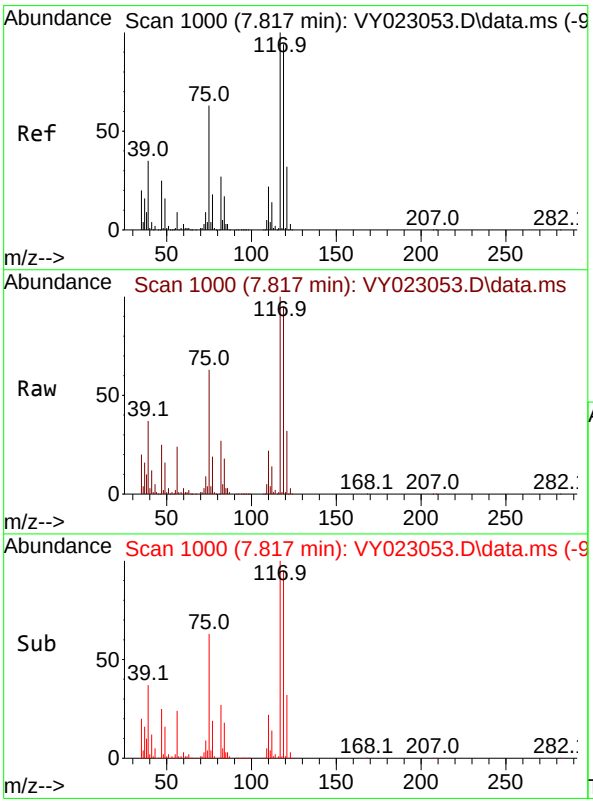
#37
Ethyl Acetate
Concen: 50.311 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

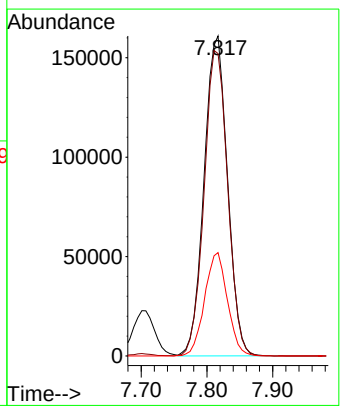


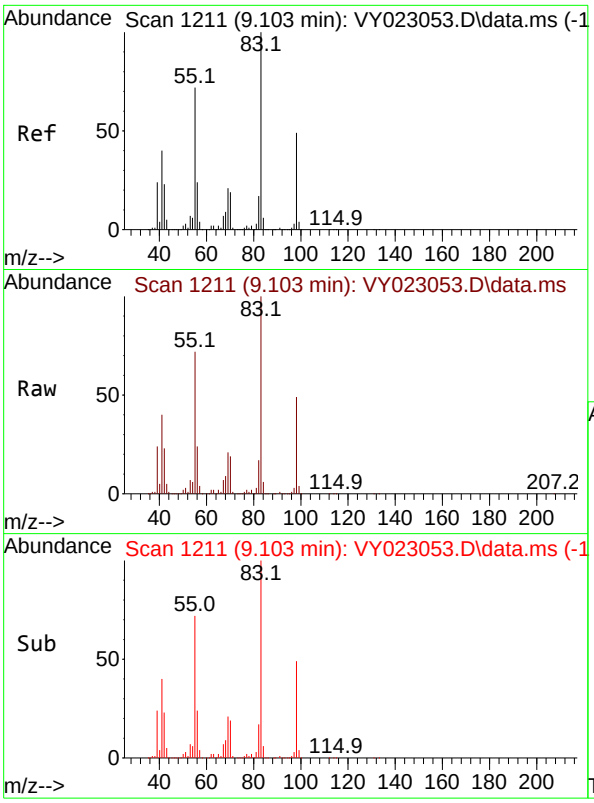


#38
Carbon Tetrachloride
Concen: 48.285 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



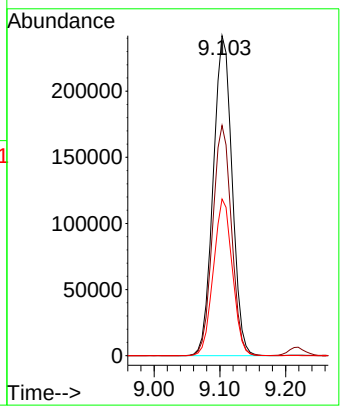


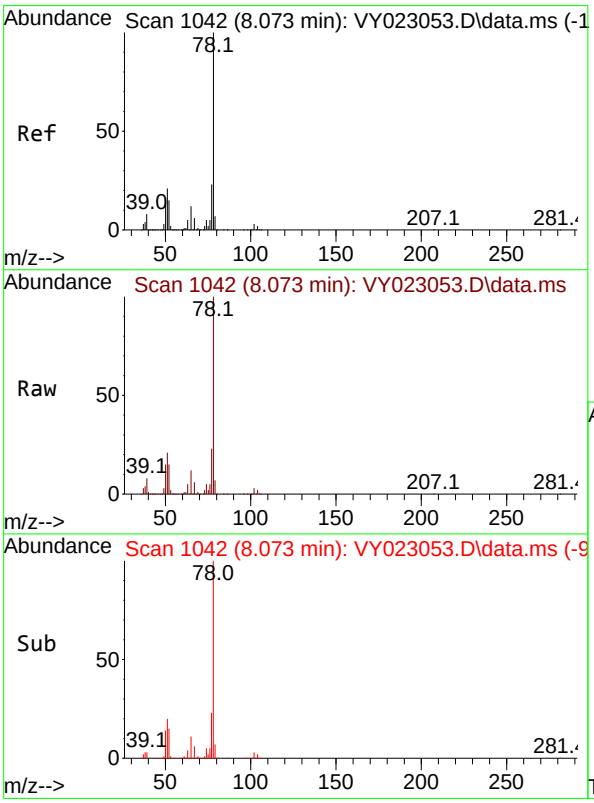
#39
Methylcyclohexane
Concen: 48.321 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

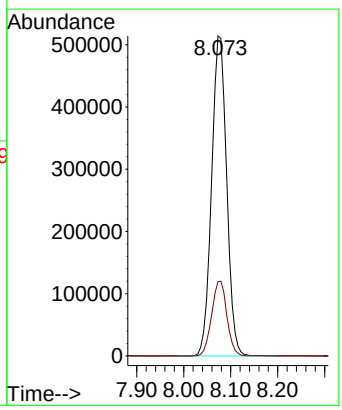


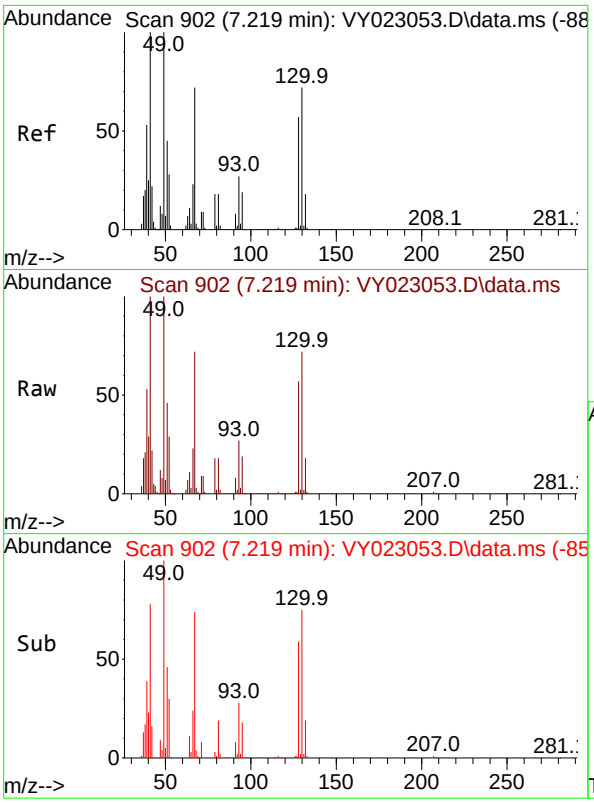


#40
Benzene
Concen: 48.683 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 78 Resp: 1142910

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	28.0



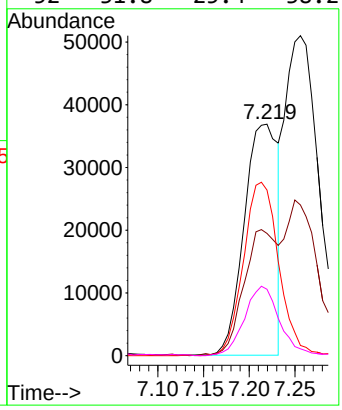


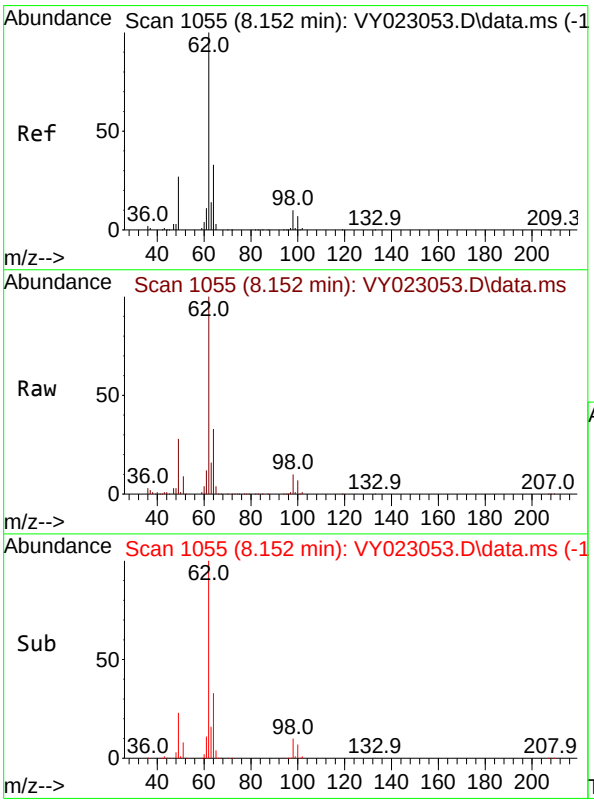
#41
Methacrylonitrile
Concen: 50.916 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

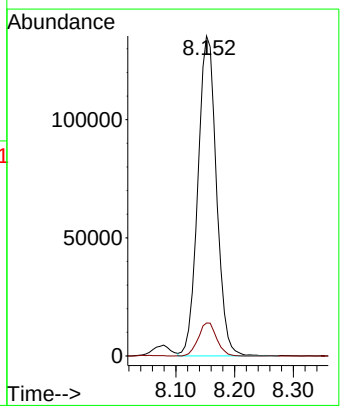


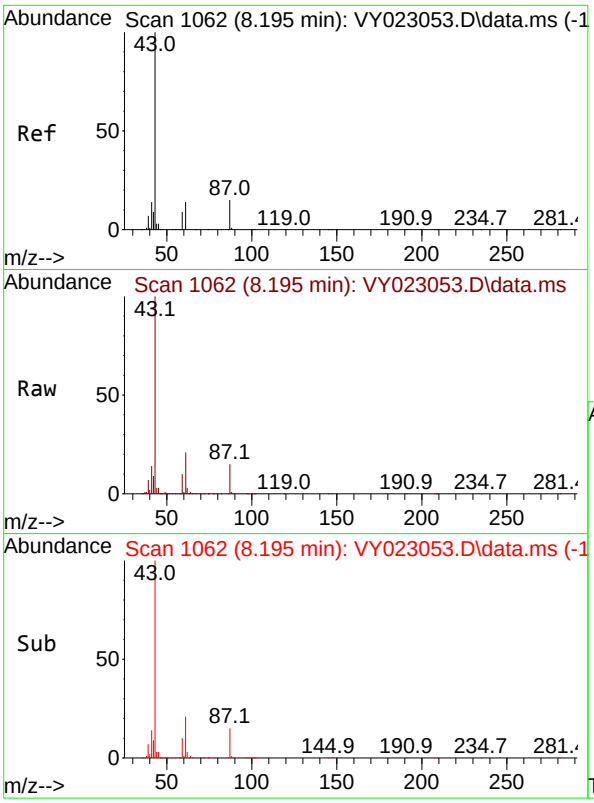


#42
1,2-Dichloroethane
Concen: 48.627 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 296907

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6



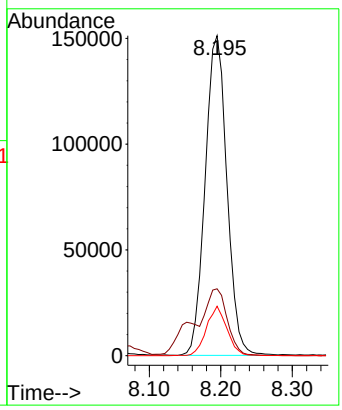


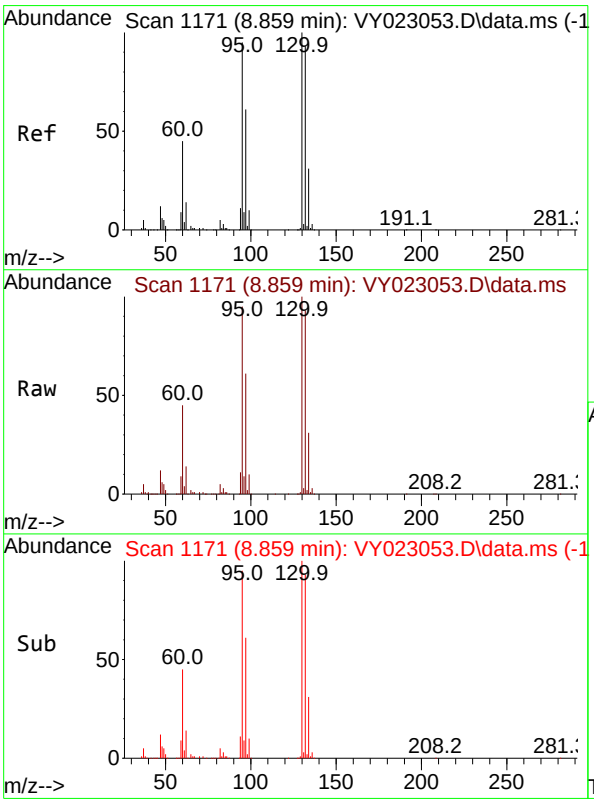
#43
Isopropyl Acetate
Concen: 49.419 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

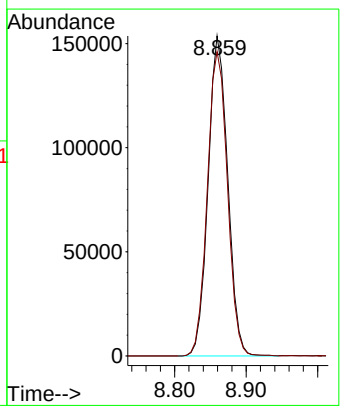


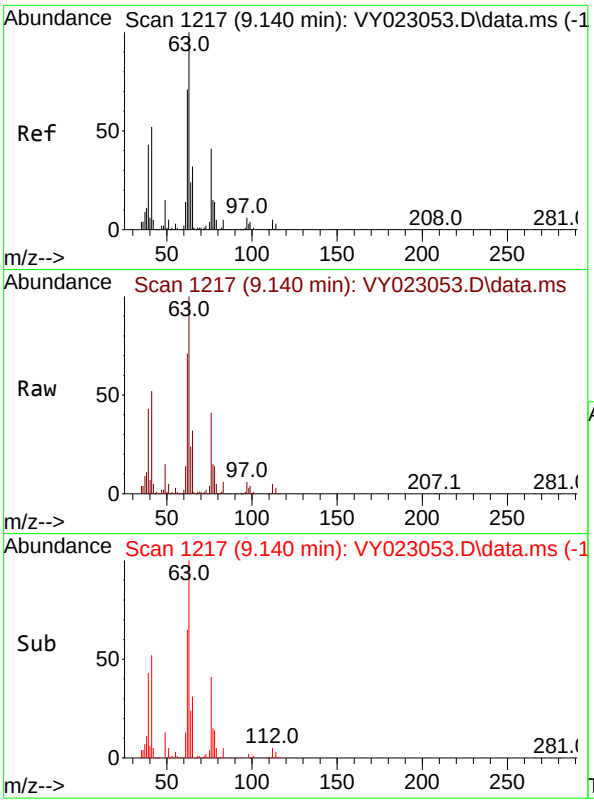


#44
Trichloroethene
Concen: 48.199 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:130 Resp: 292421

Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	190.2



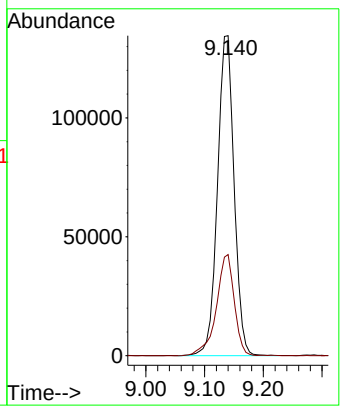


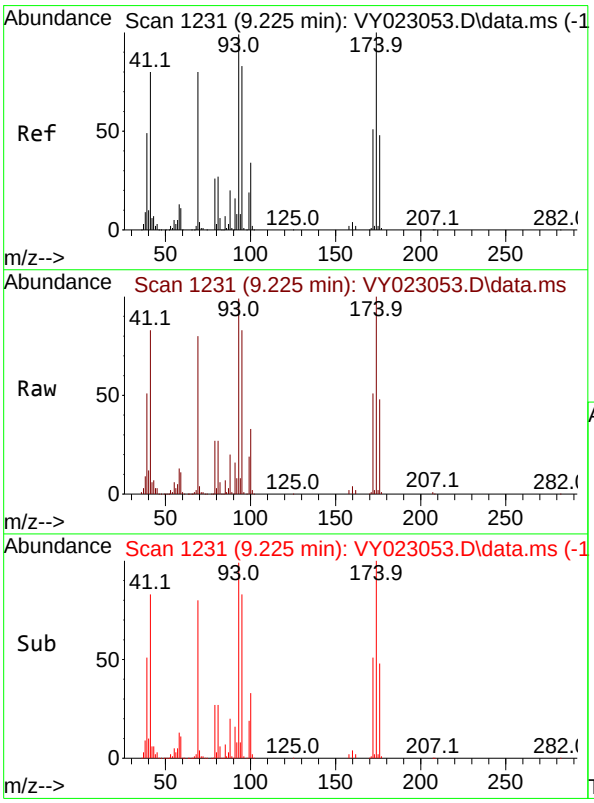
#45
1,2-Dichloropropane
Concen: 48.938 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 264354

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9

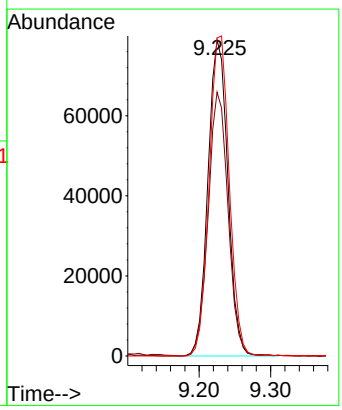


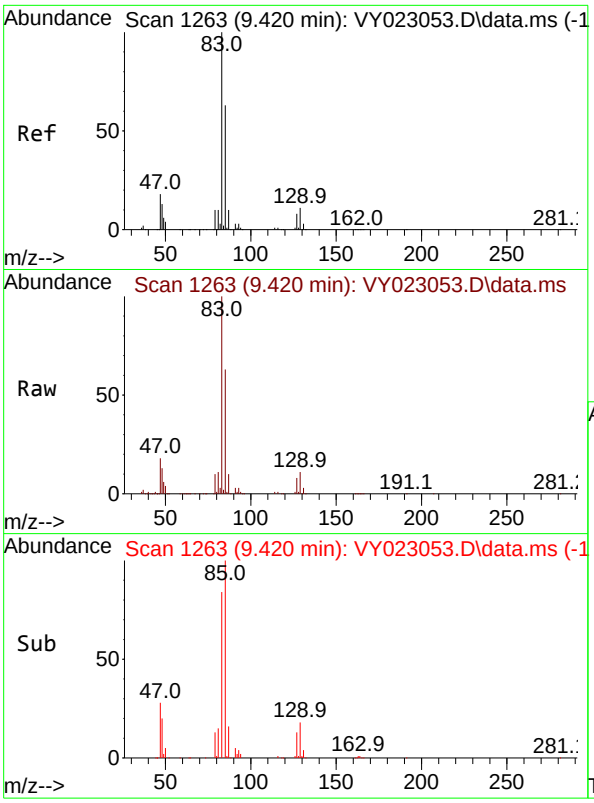


#46
Dibromomethane
Concen: 49.291 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



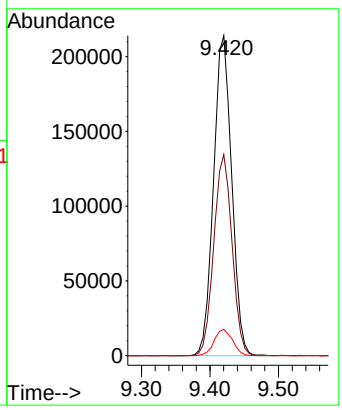


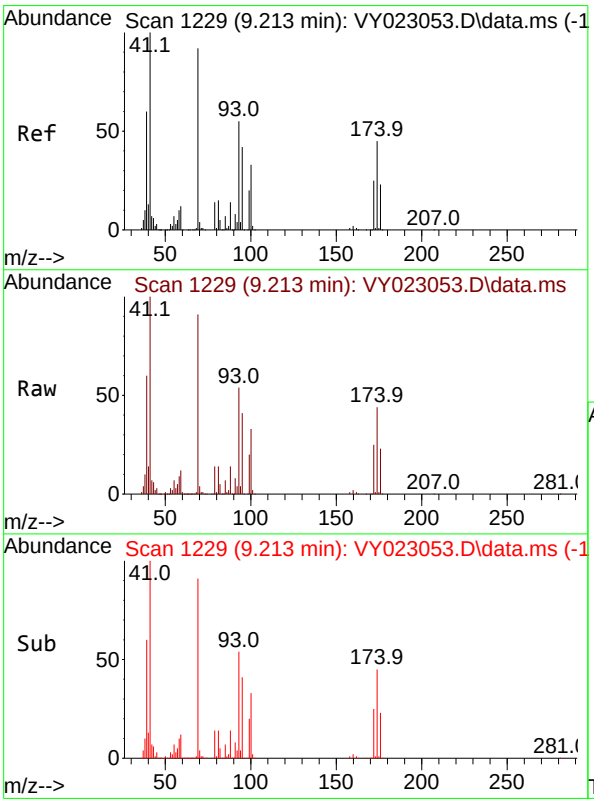
#47
Bromodichloromethane
Concen: 49.327 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

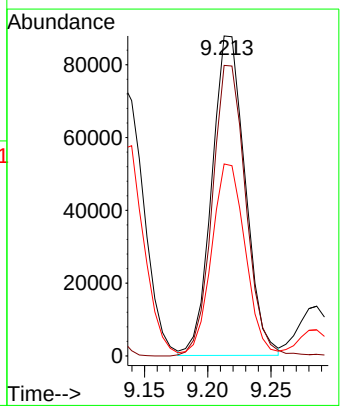


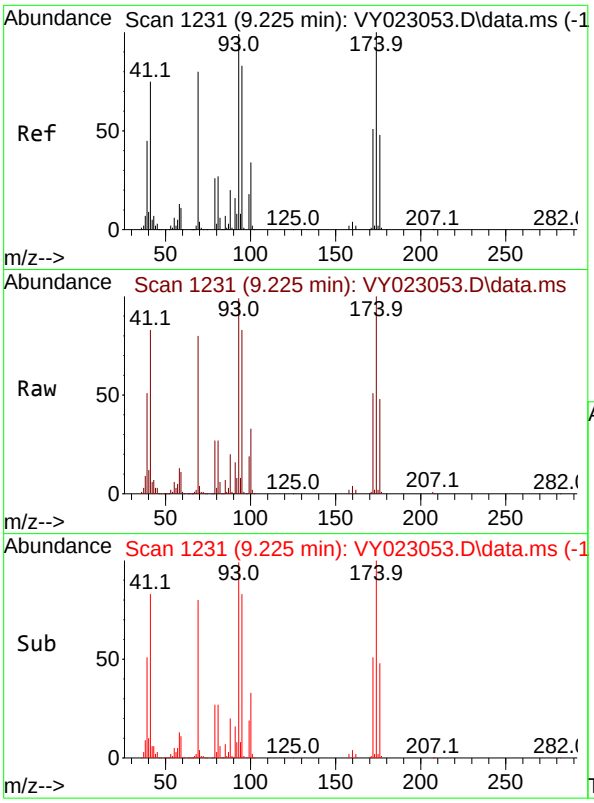


#48
Methyl methacrylate
Concen: 51.958 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



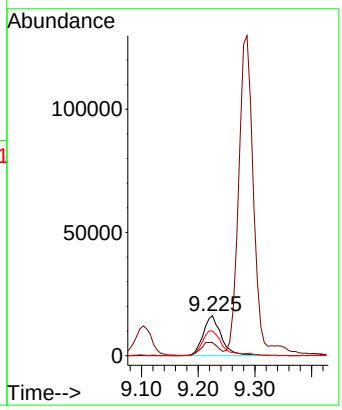


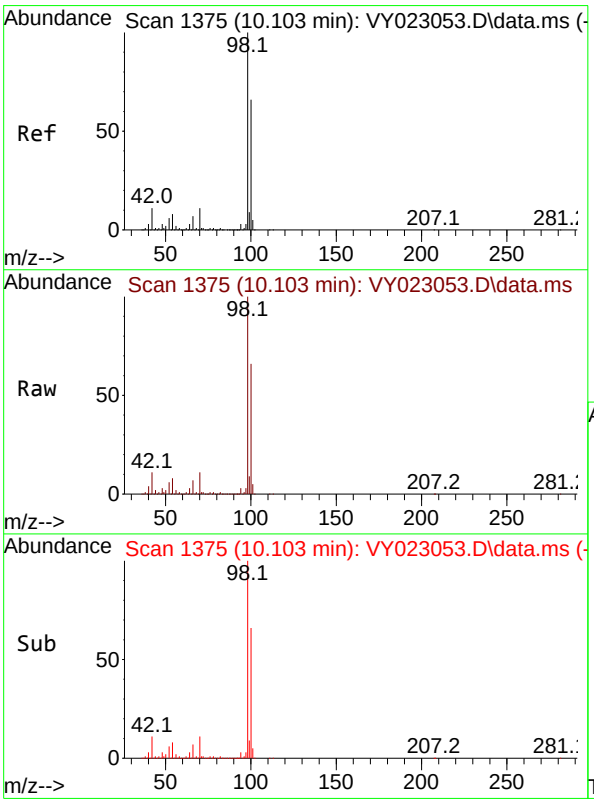
#49
1,4-Dioxane
Concen: 997.124 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

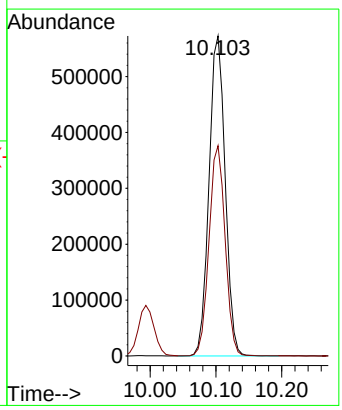


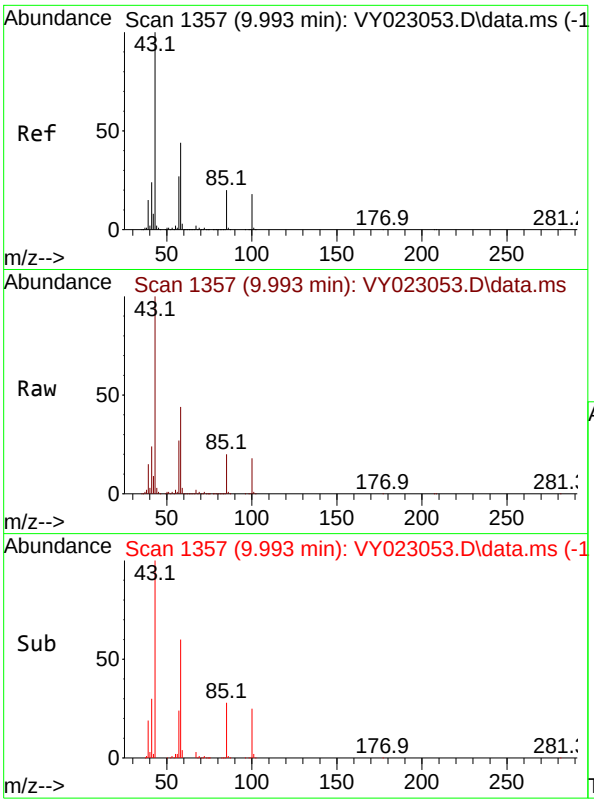


#50
Toluene-d8
Concen: 48.899 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 98 Resp: 979082

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5



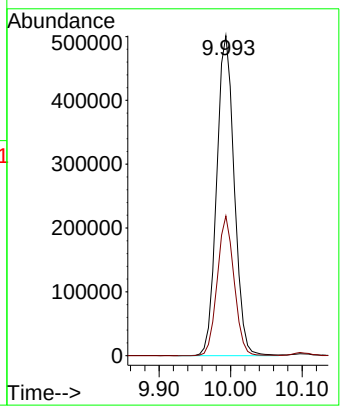


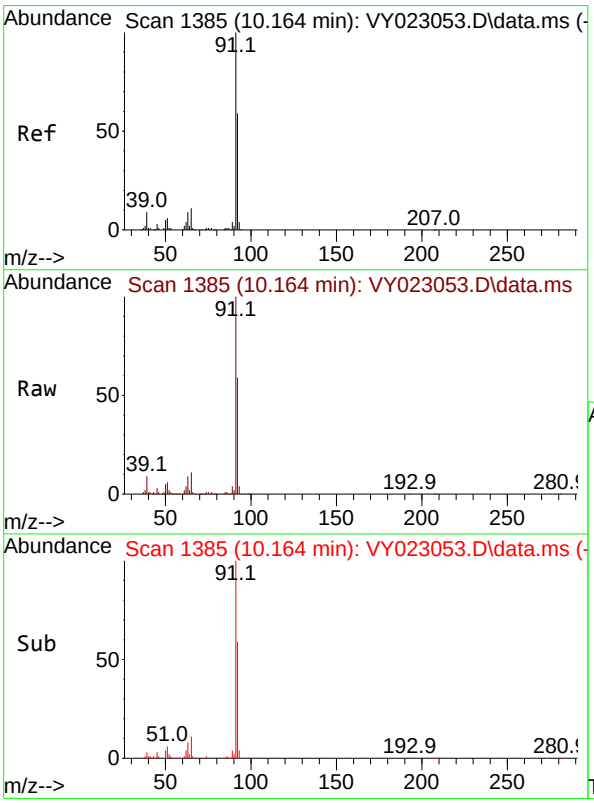
#51
4-Methyl-2-Pentanone
Concen: 255.710 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 853025

Ion	Ratio	Lower	Upper
43	100		
58	41.9	33.5	50.3

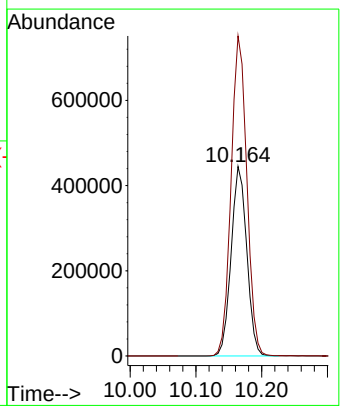


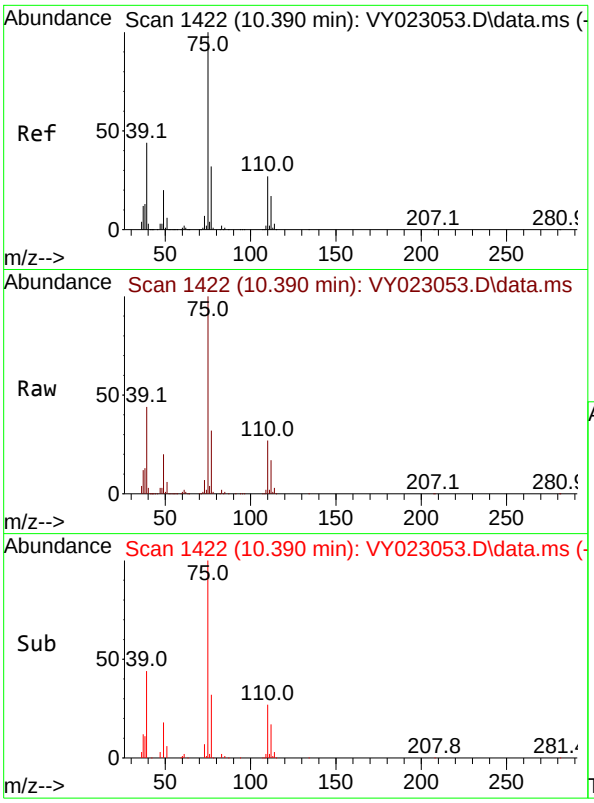


#52
Toluene
Concen: 49.315 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 92 Resp: 735326

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6



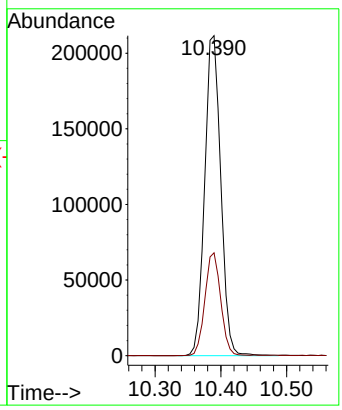


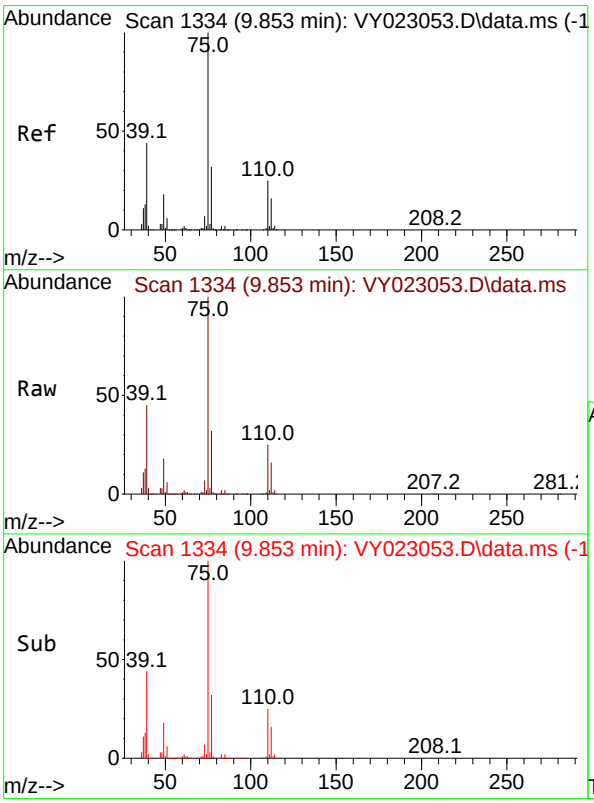
#53
t-1,3-Dichloropropene
Concen: 49.790 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 359698

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5

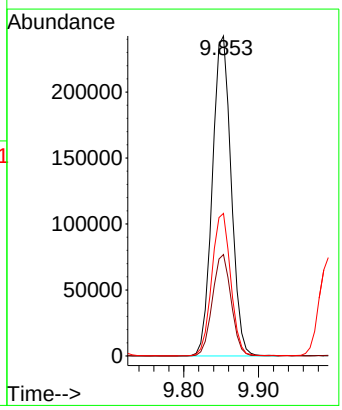


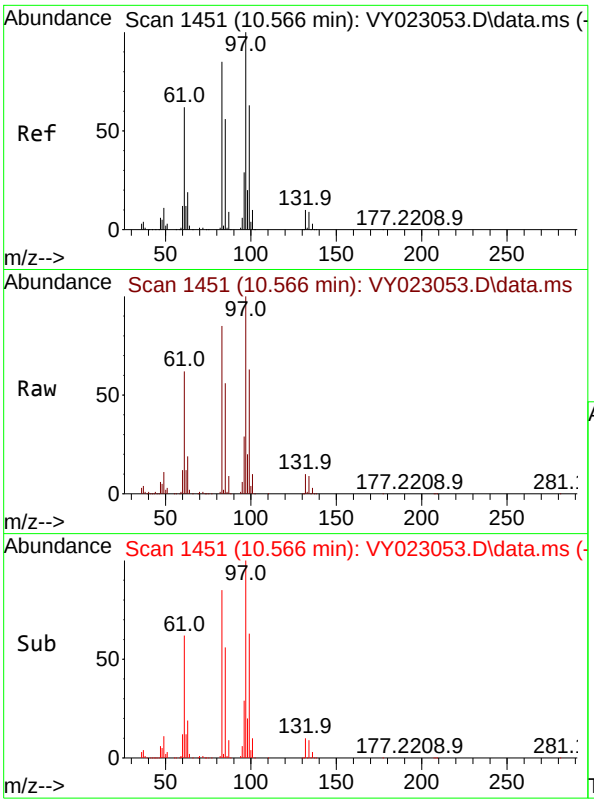


#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



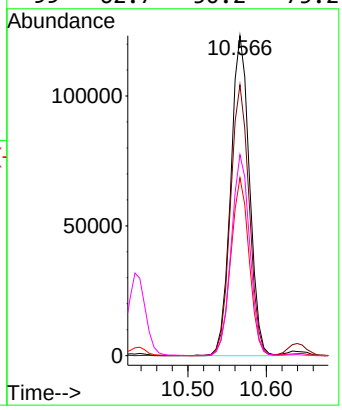


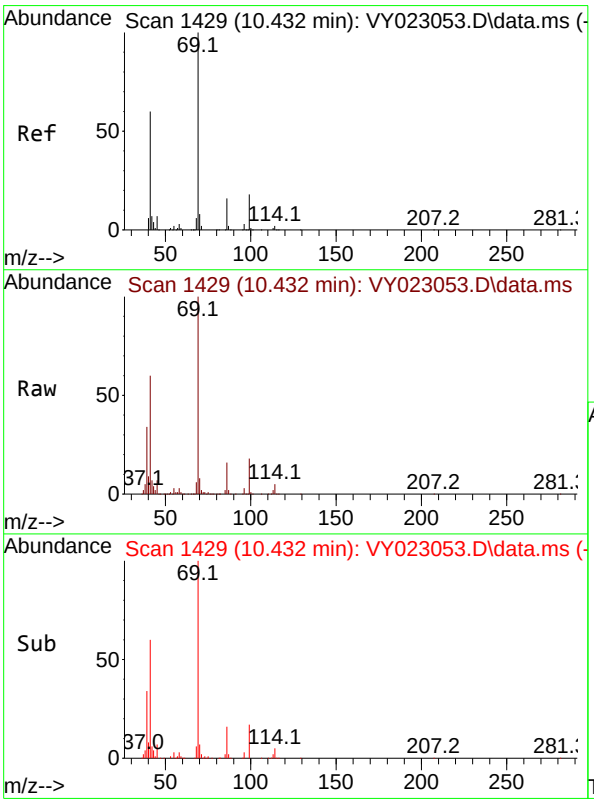
#55
1,1,2-Trichloroethane
Concen: 49.261 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

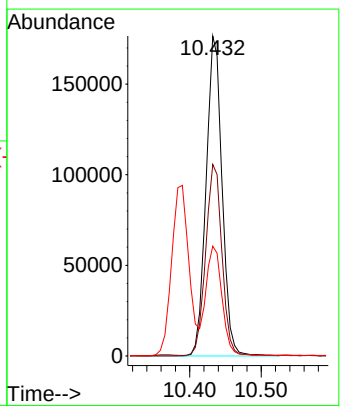


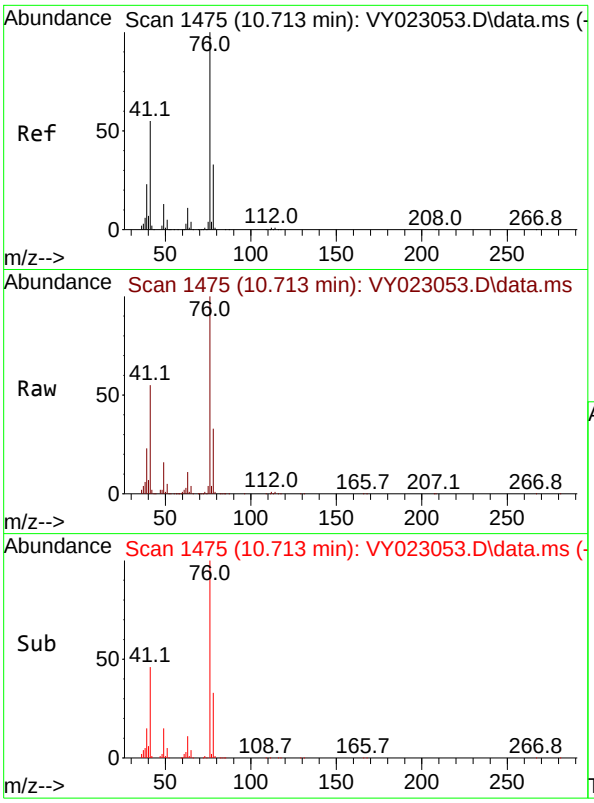


#56
Ethyl methacrylate
Concen: 51.576 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



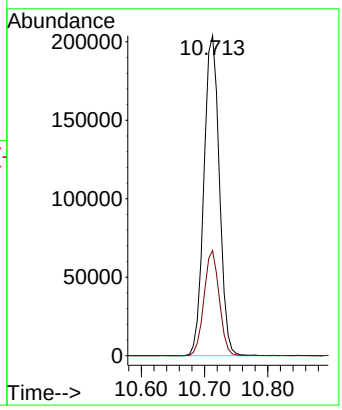


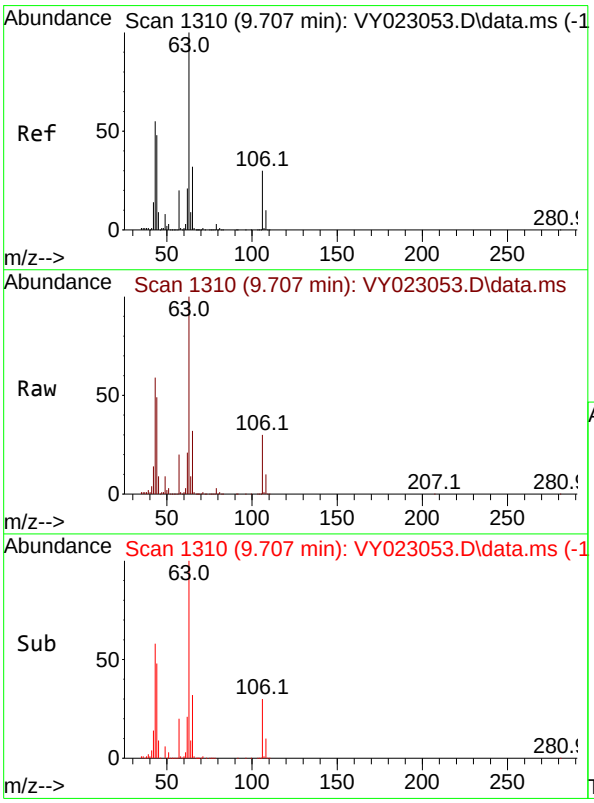
#57
1,3-Dichloropropane
Concen: 49.249 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 346510

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0

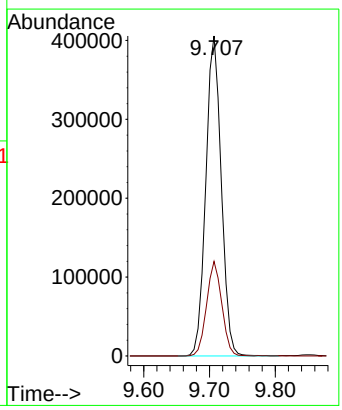


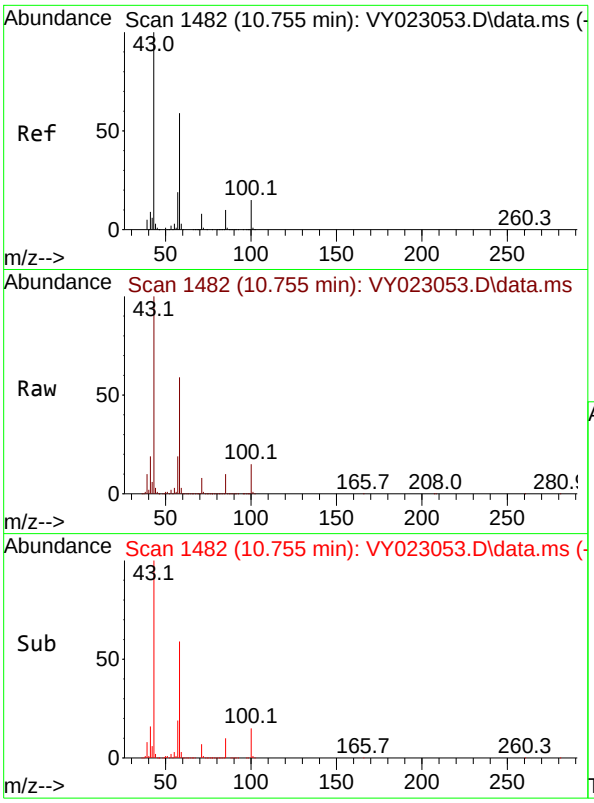


#58
2-Chloroethyl Vinyl ether
Concen: 264.906 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 663351

Ion	Ratio	Lower	Upper
63	100		
106	29.0	23.2	34.8



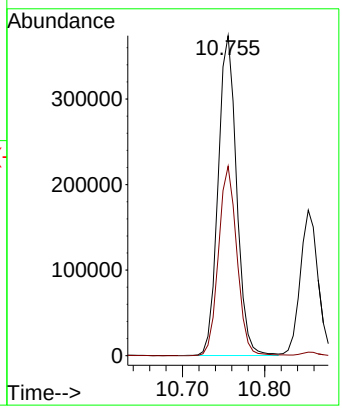


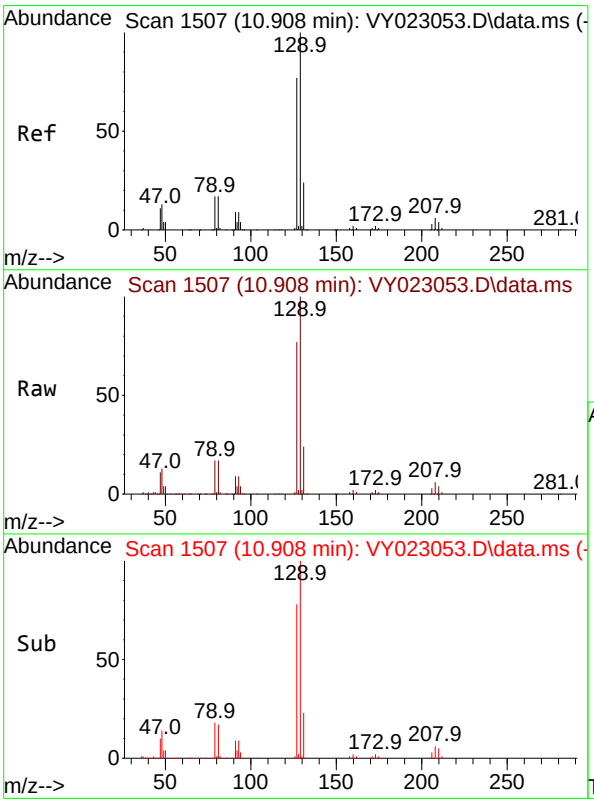
#59
2-Hexanone
Concen: 257.194 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 584223

Ion	Ratio	Lower	Upper
43	100		
58	59.0	29.5	88.5

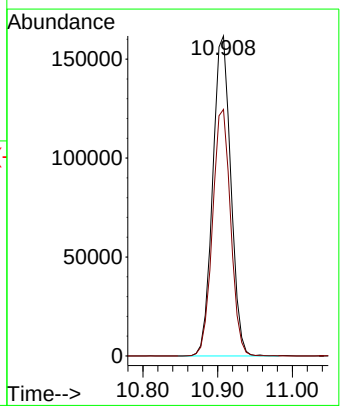


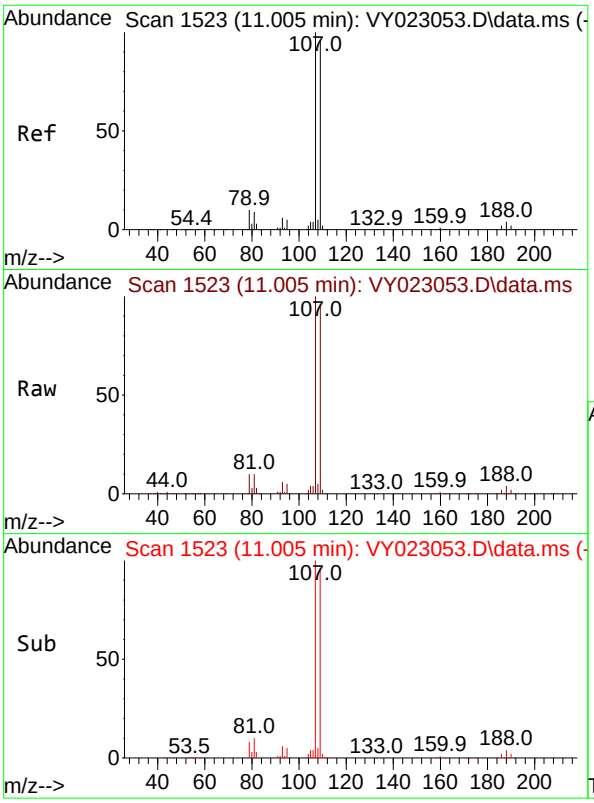


#60
Dibromochloromethane
Concen: 49.719 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:129 Resp: 272171

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5



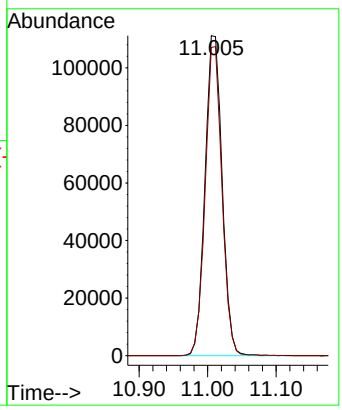


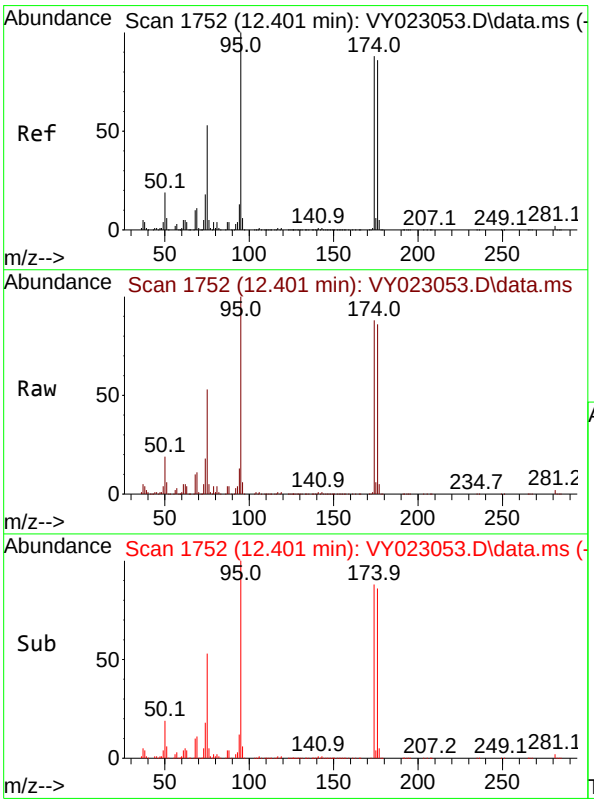
#61
1,2-Dibromoethane
Concen: 49.598 ug/l
RT: 11.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 193398

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4

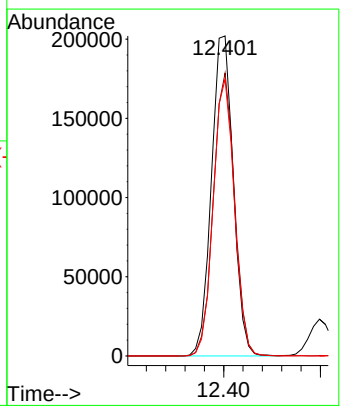


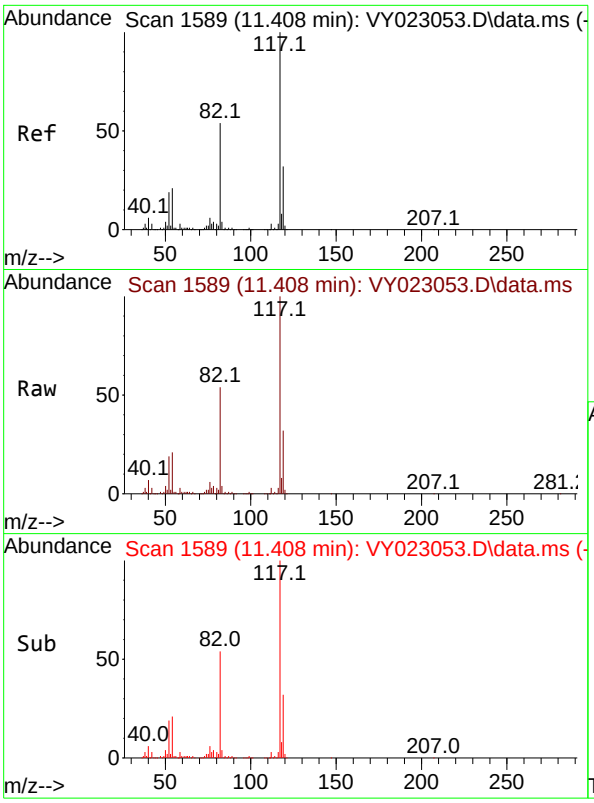


#62
4-Bromofluorobenzene
Concen: 49.194 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



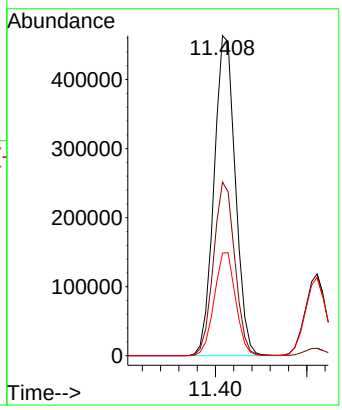


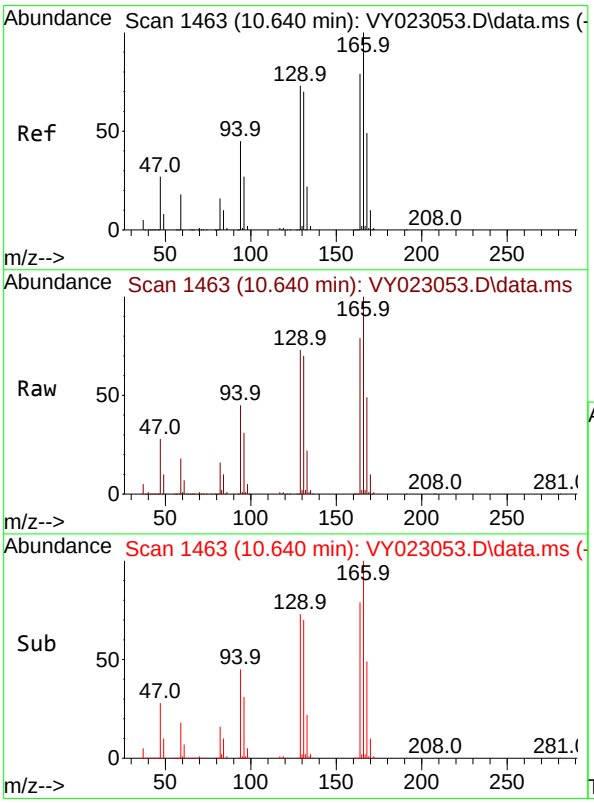
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

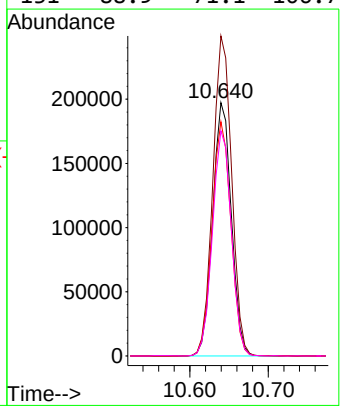


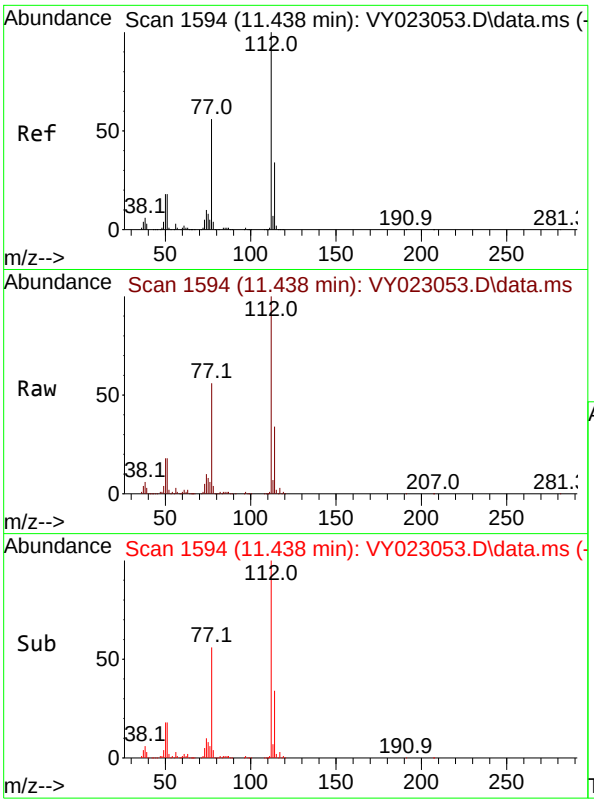


#64
Tetrachloroethene
Concen: 48.740 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



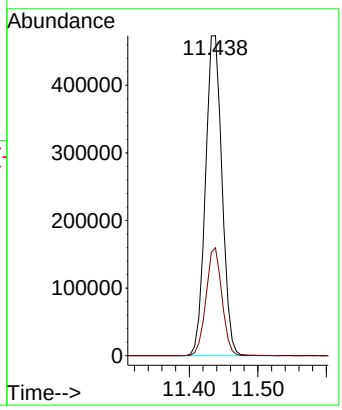


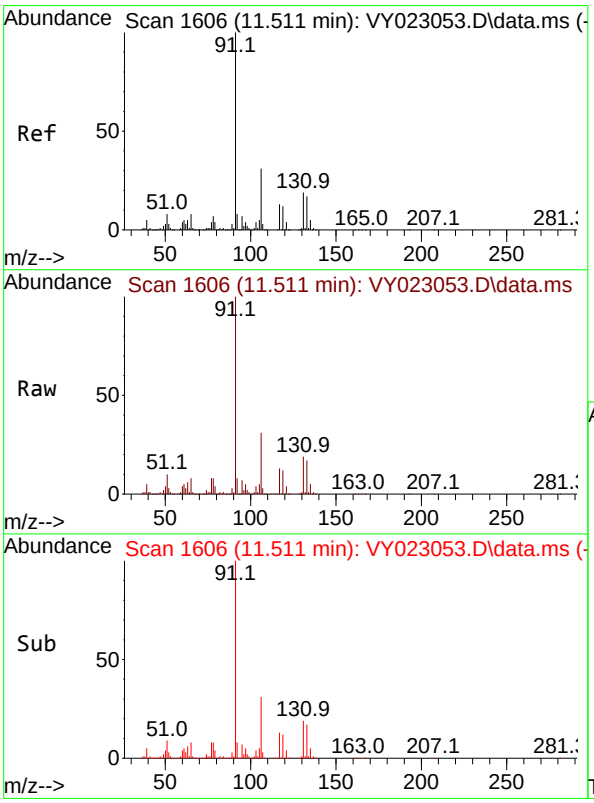
#65
Chlorobenzene
Concen: 48.920 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 793490

Ion	Ratio	Lower	Upper
112	100		
114	33.7	27.0	40.4

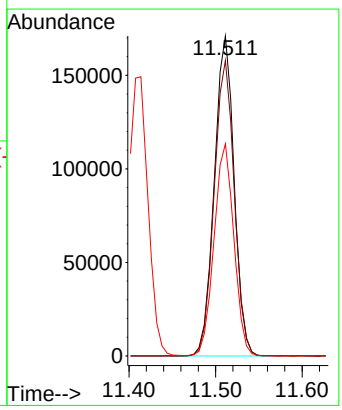


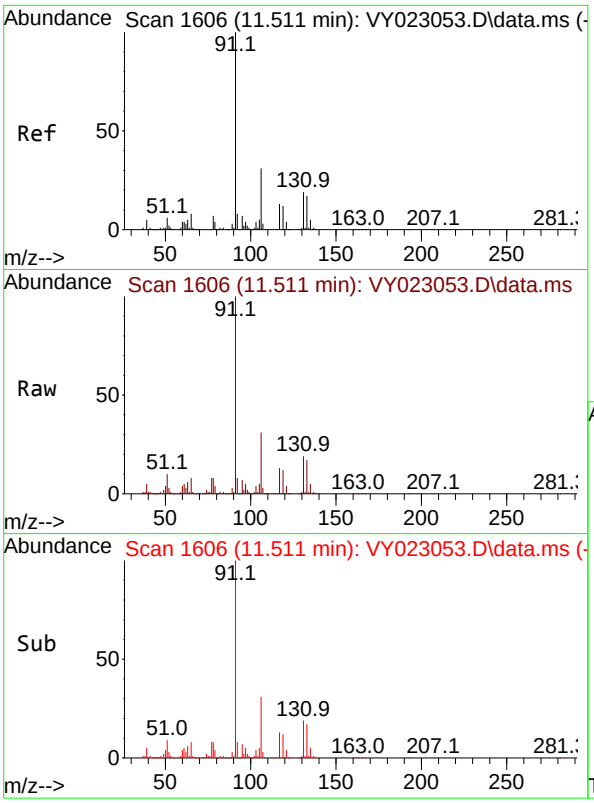


#66
1,1,1,2-Tetrachloroethane
Concen: 49.381 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



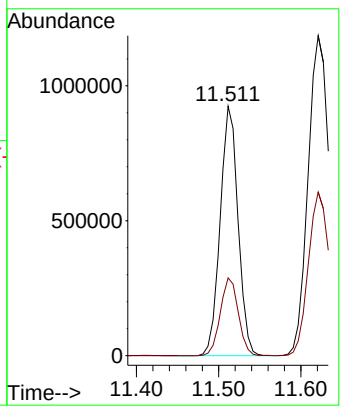


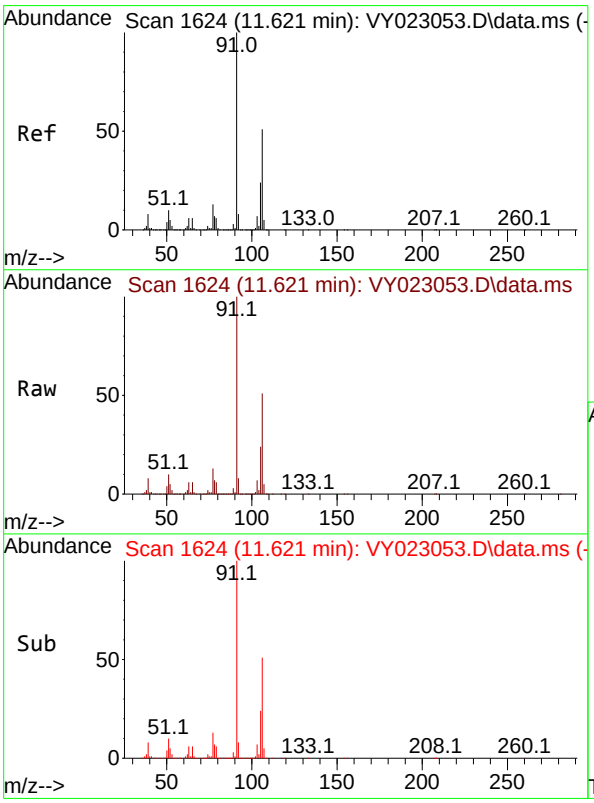
#67
Ethyl Benzene
Concen: 50.073 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1397704

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4

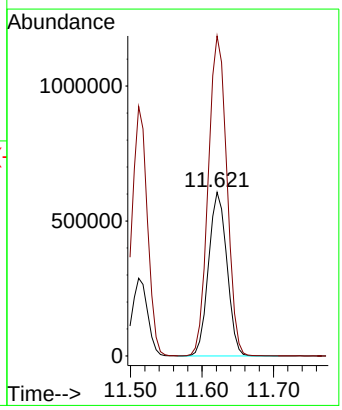


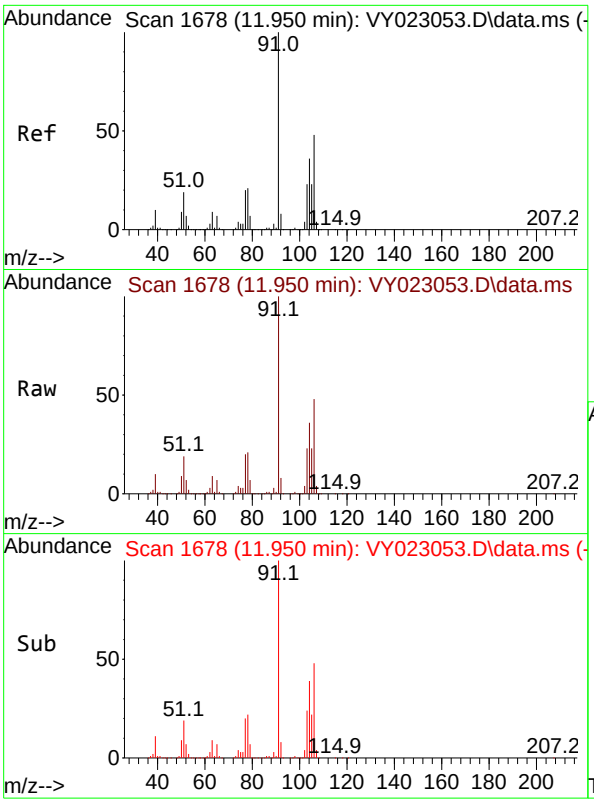


#68
m/p-Xylenes
Concen: 99.103 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:106 Resp: 1080401

Ion	Ratio	Lower	Upper
106	100		
91	198.3	158.6	238.0



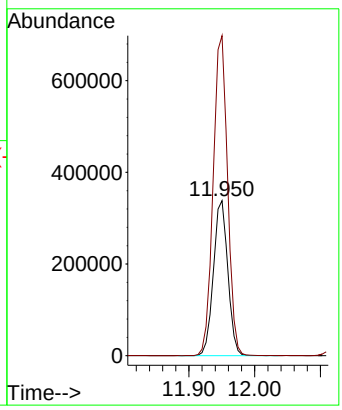


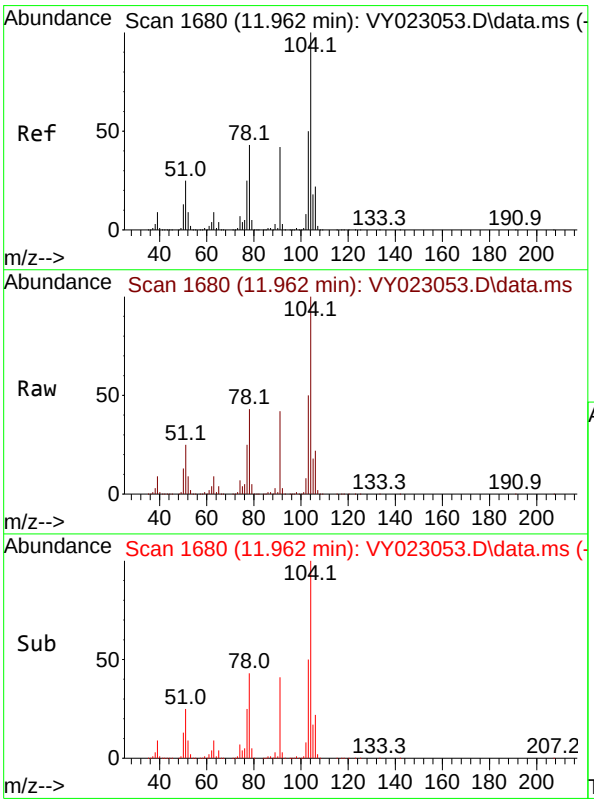
#69
o-Xylene
Concen: 50.536 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 516002

Ion	Ratio	Lower	Upper
106	100		
91	206.3	103.2	309.4

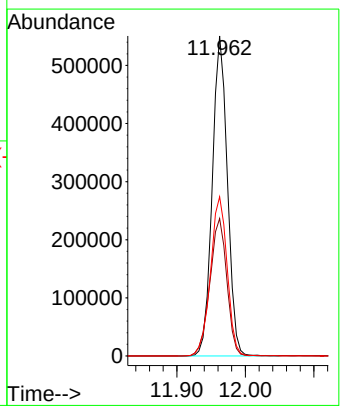


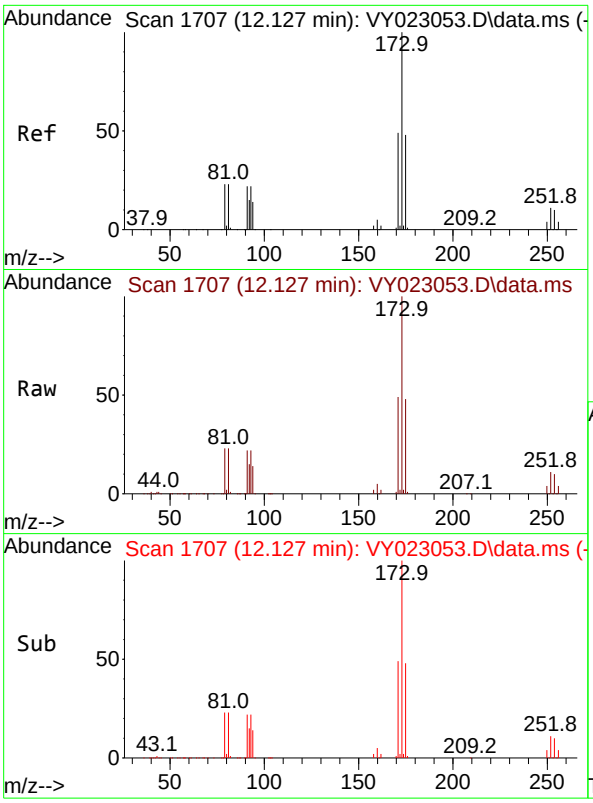


#70
Styrene
Concen: 50.569 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



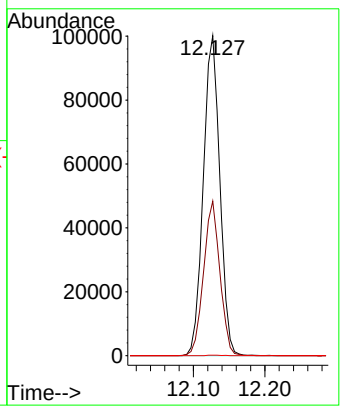


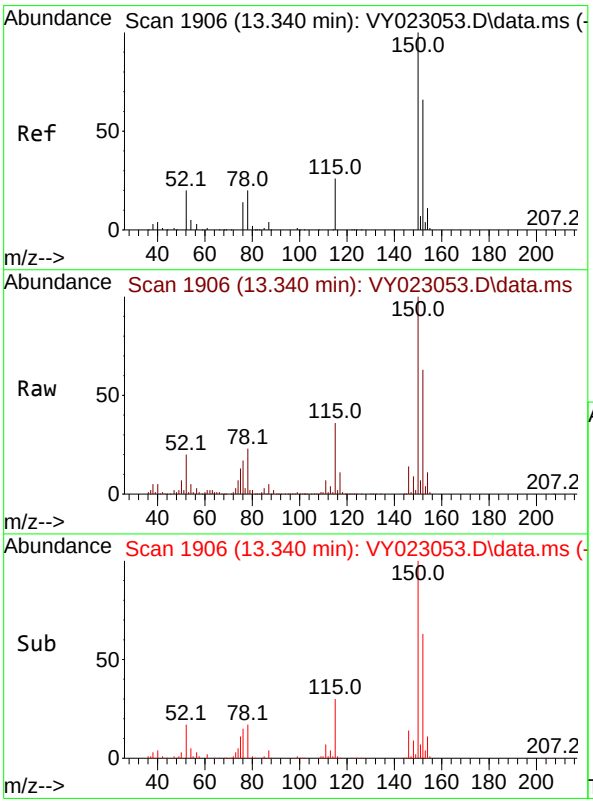
#71
Bromoform
Concen: 49.969 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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#

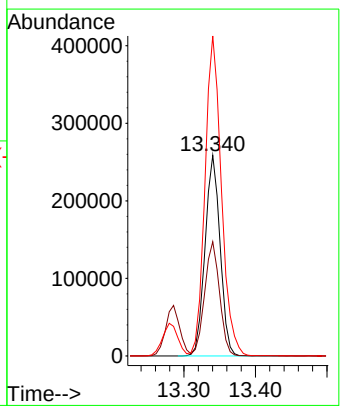


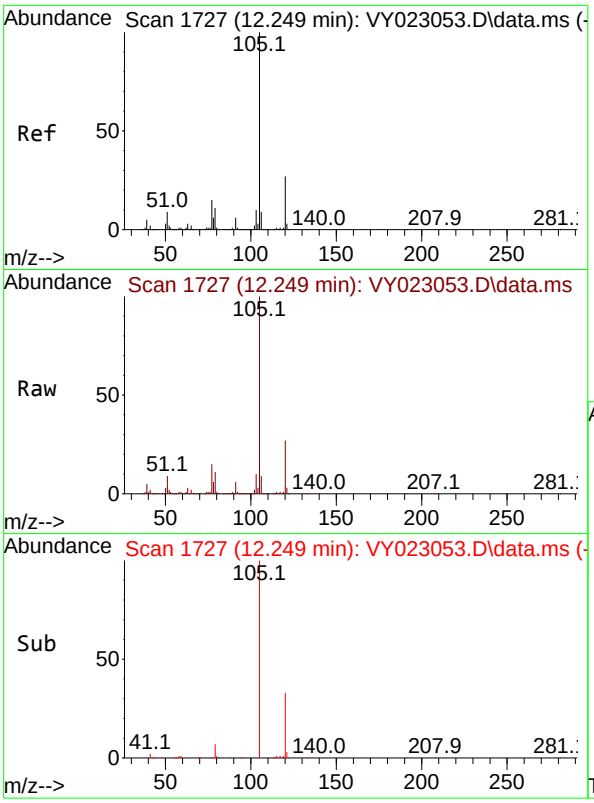


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



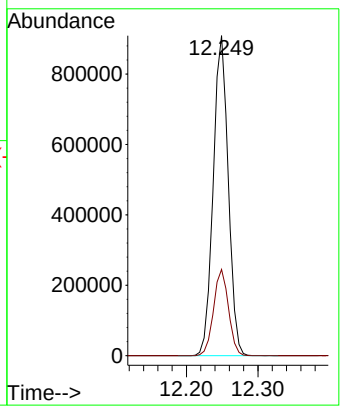


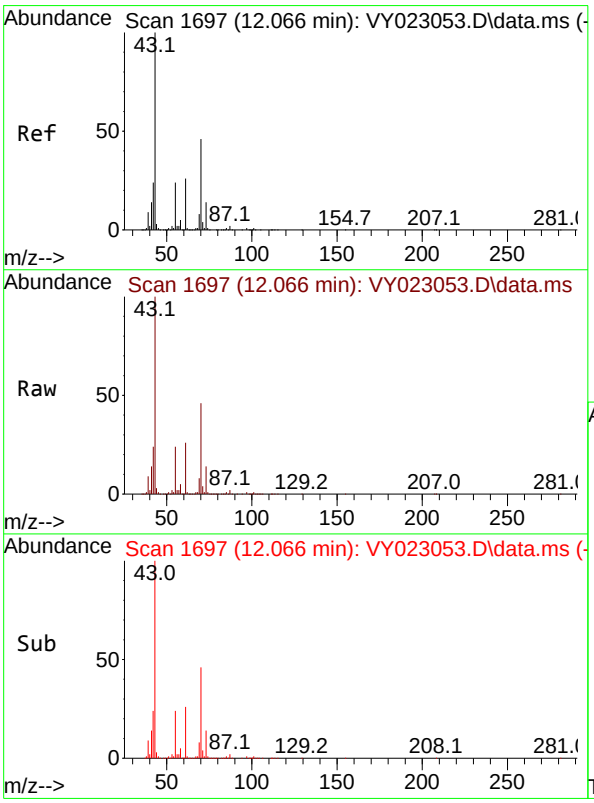
#73
Isopropylbenzene
Concen: 49.660 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 1324313

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2

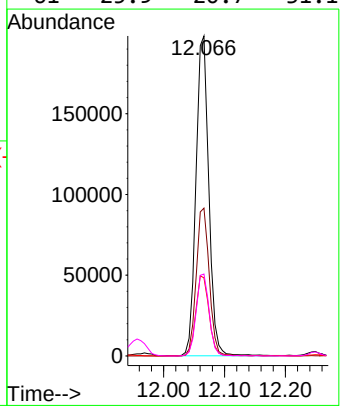


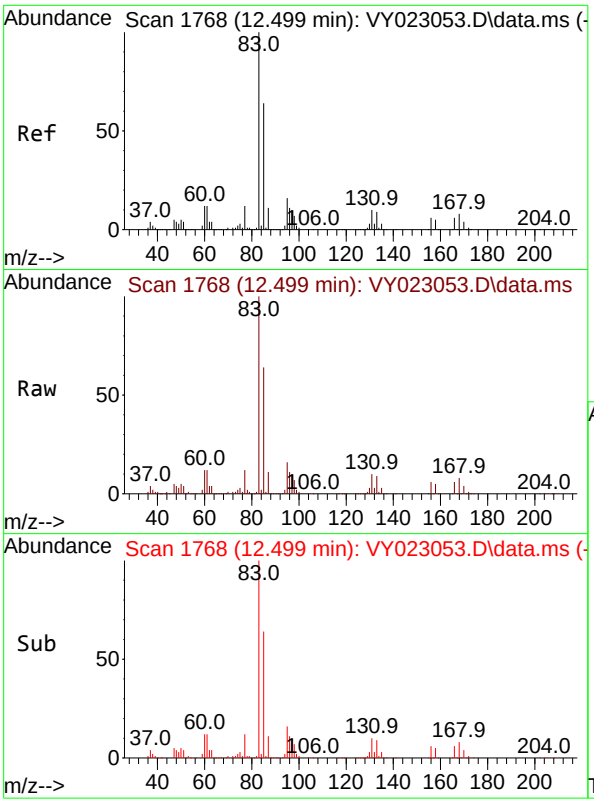


#74
N-amyl acetate
Concen: 51.264 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



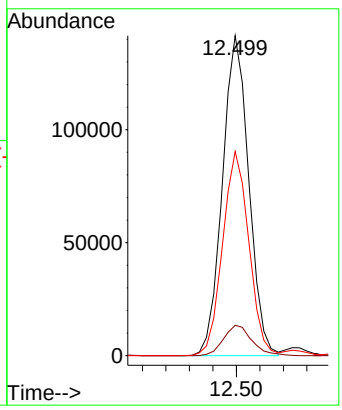


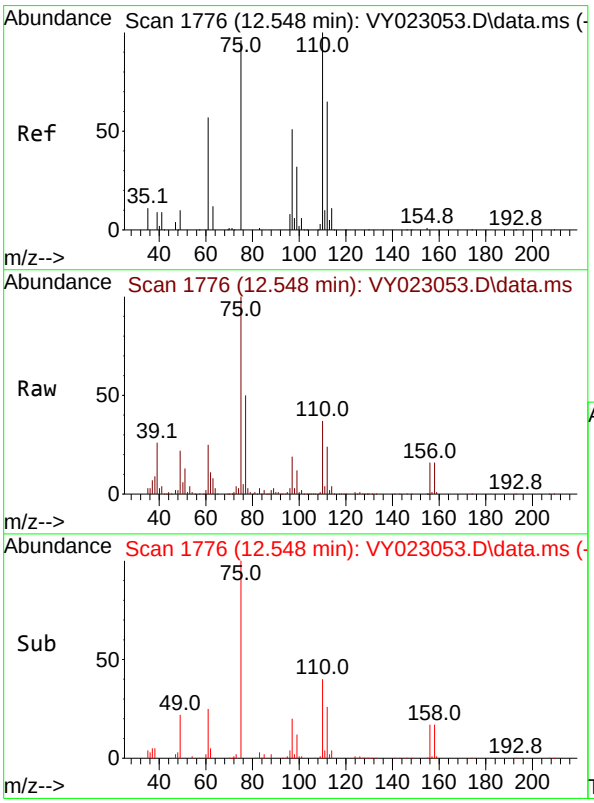
#75
1,1,2,2-Tetrachloroethane
Concen: 48.503 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

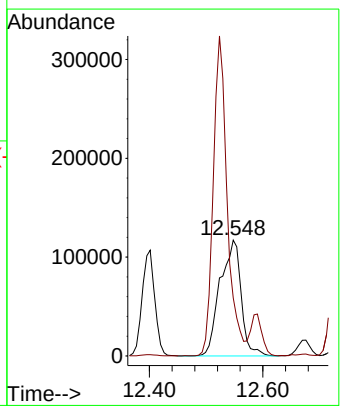


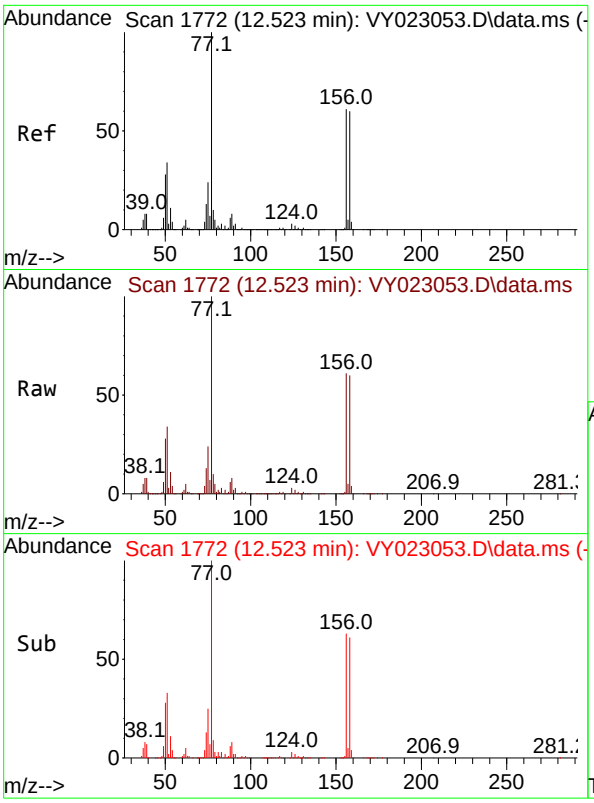


#76
1,2,3-Trichloropropane
Concen: 83.064 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 303093

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



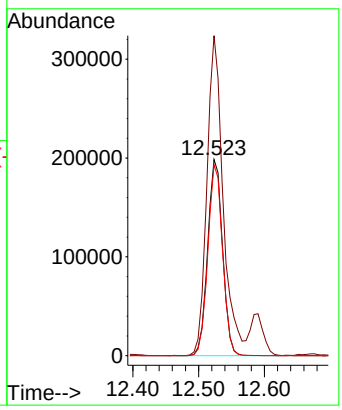


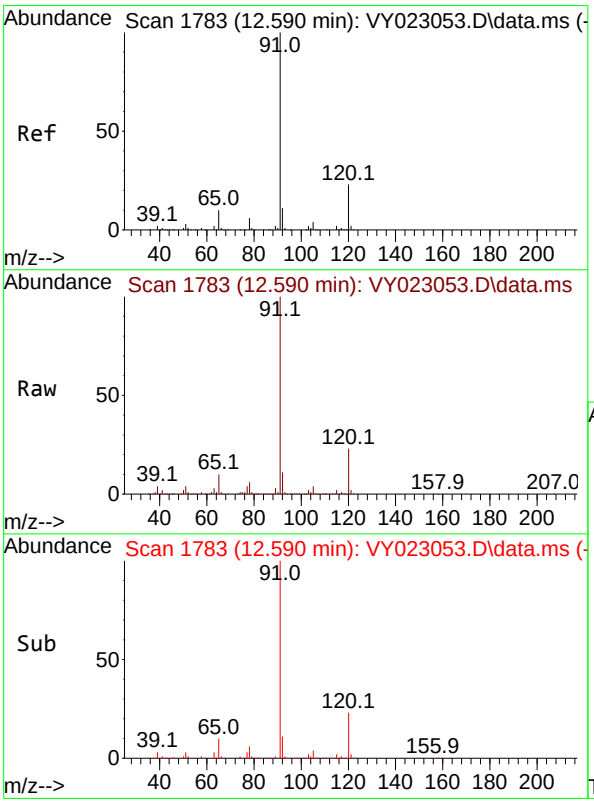
#77
Bromobenzene
Concen: 49.152 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

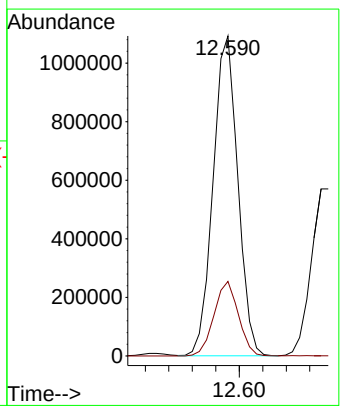


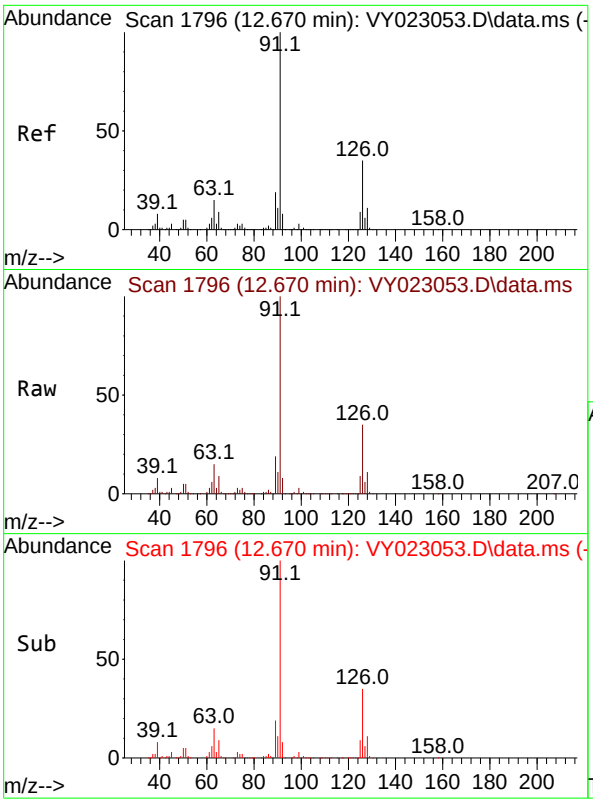


#78
n-propylbenzene
Concen: 50.186 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 1593368

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.5	34.5



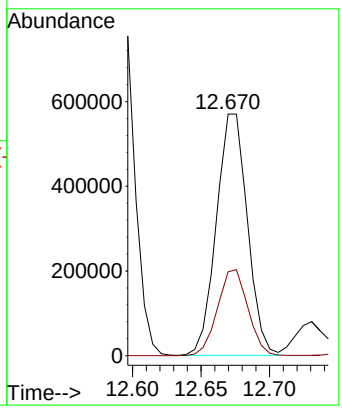


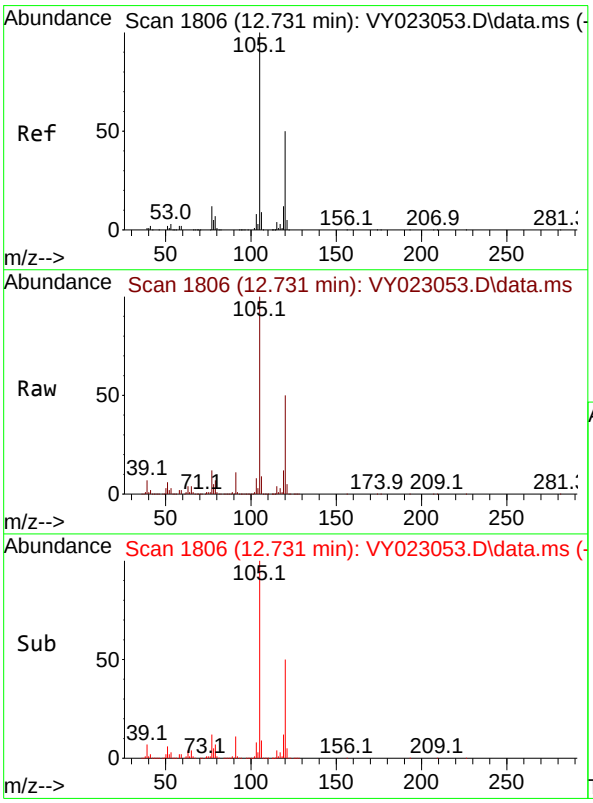
#79
2-Chlorotoluene
Concen: 49.473 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 899967

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.3

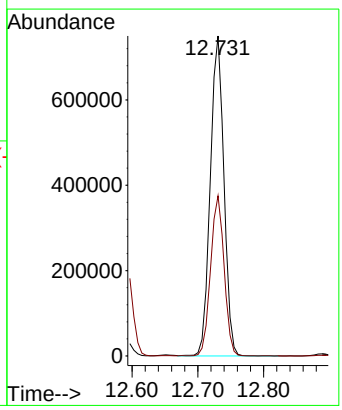


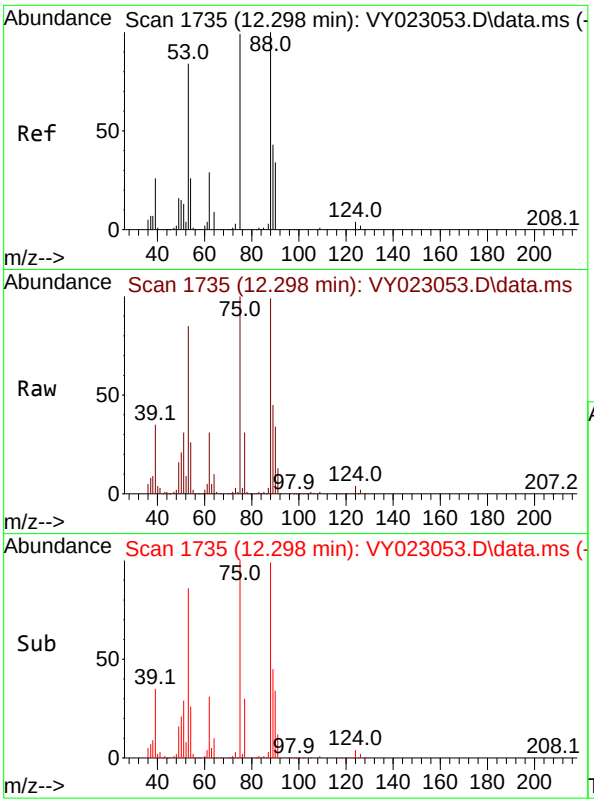


#80
1,3,5-Trimethylbenzene
Concen: 50.126 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1080333

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



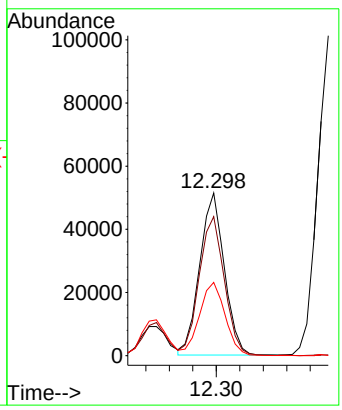


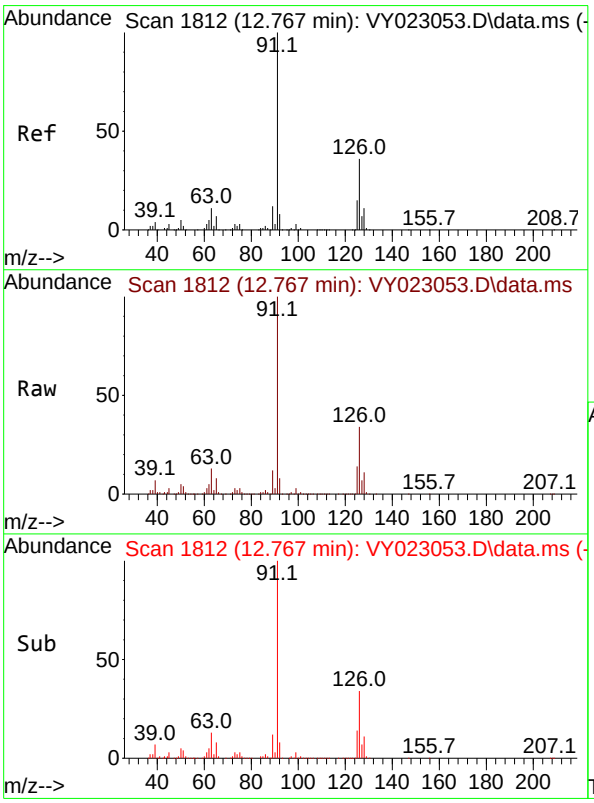
#81
trans-1,4-Dichloro-2-butene
Concen: 49.500 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

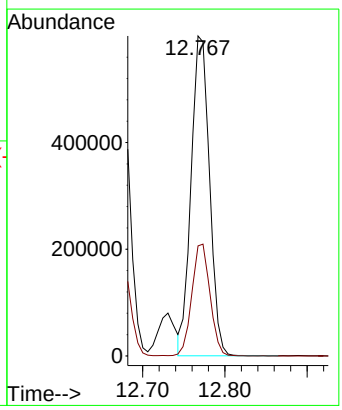


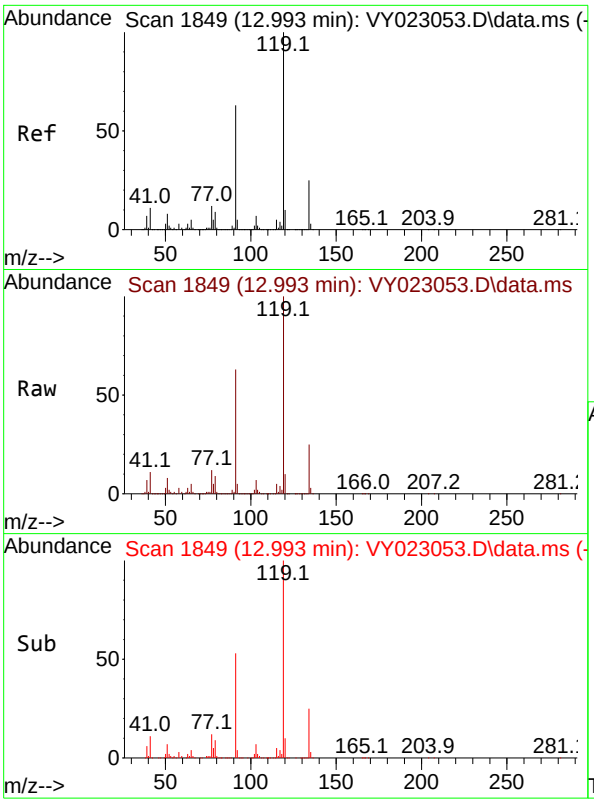


#82
4-Chlorotoluene
Concen: 49.299 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 930329

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0



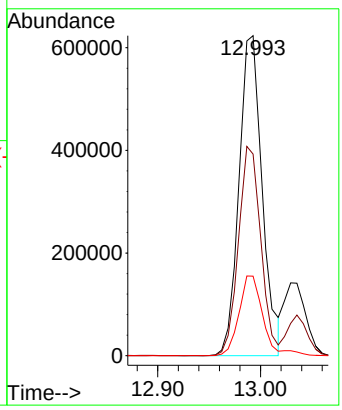


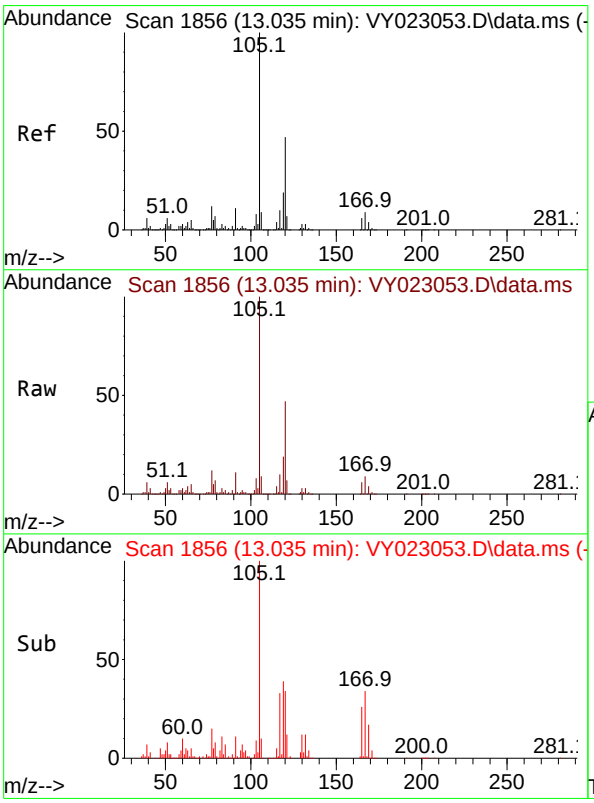
#83
tert-Butylbenzene
Concen: 50.244 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

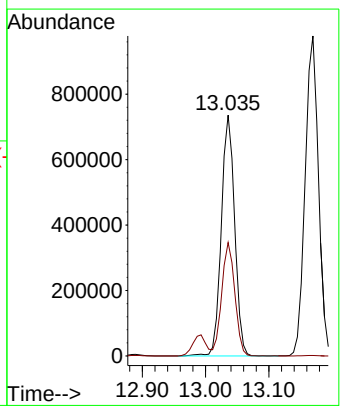


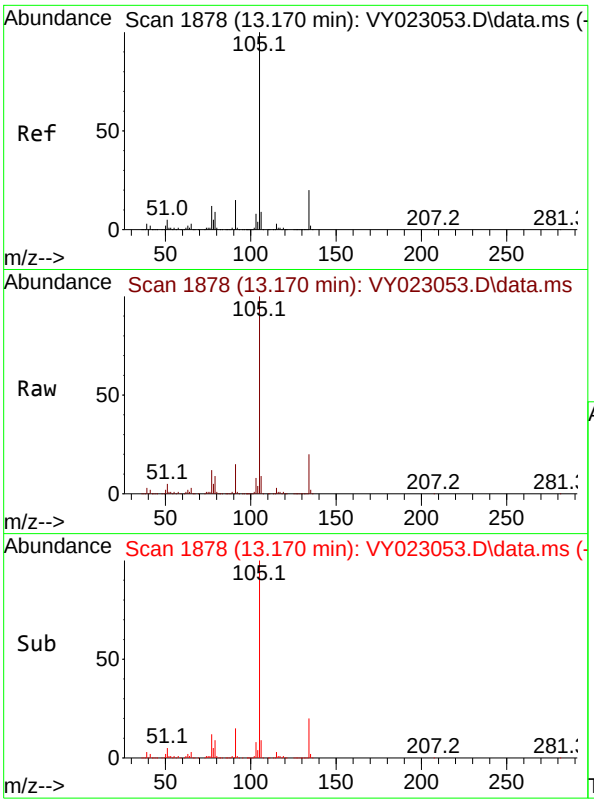


#84
1,2,4-Trimethylbenzene
Concen: 49.963 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1071926

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.0	69.0



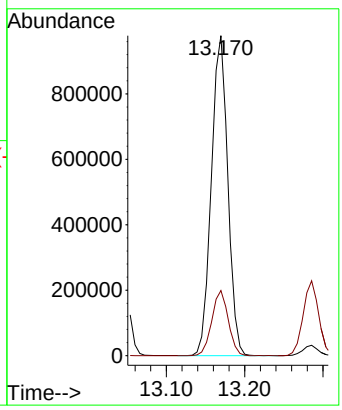


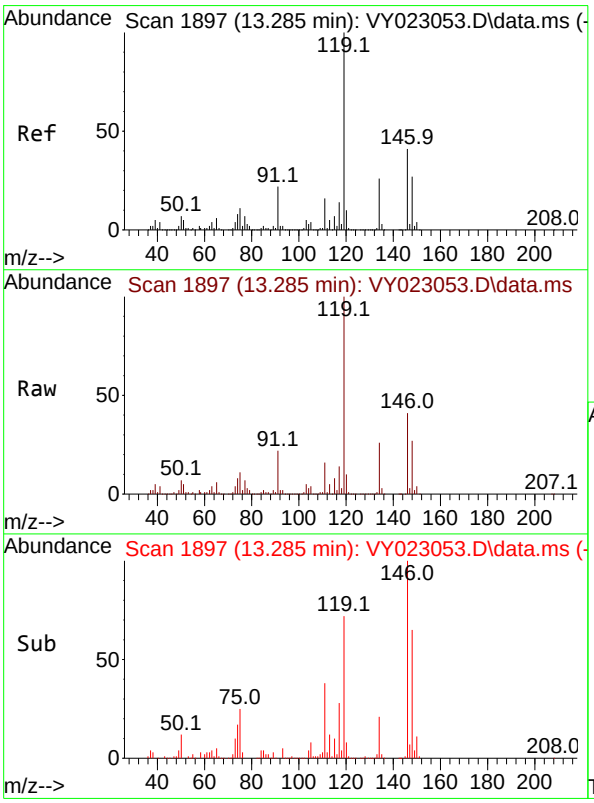
#85
sec-Butylbenzene
Concen: 49.854 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 1425553

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.2	30.4

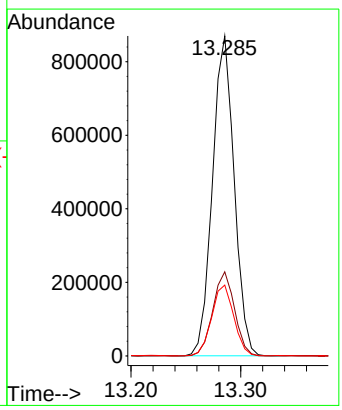


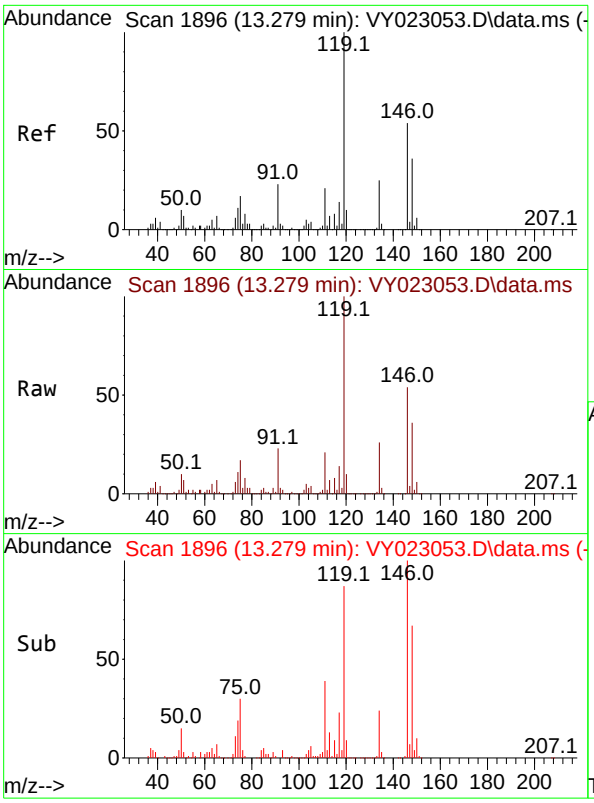


#86
p-Isopropyltoluene
Concen: 50.417 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



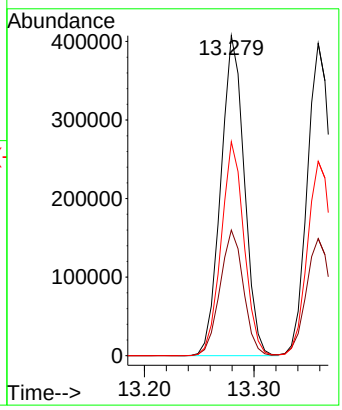


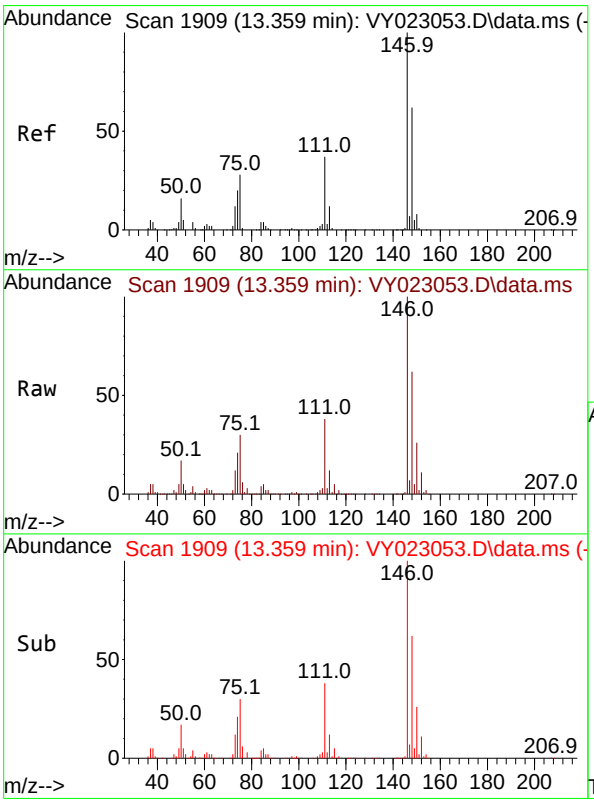
#87
1,3-Dichlorobenzene
Concen: 48.481 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

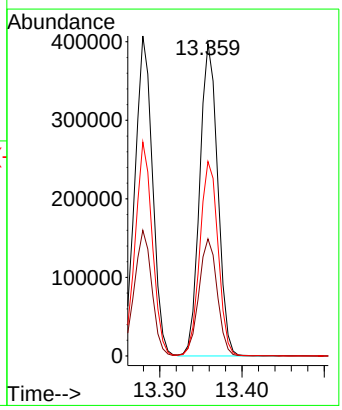


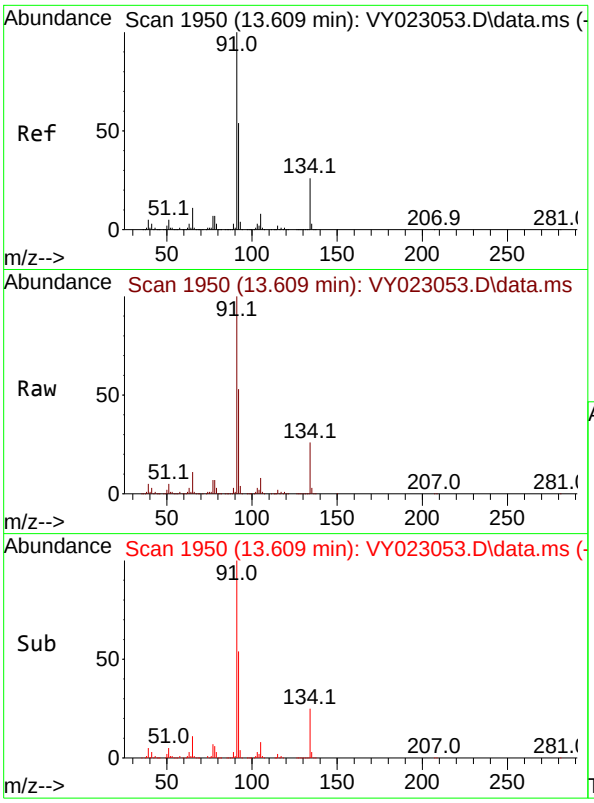


#88
1,4-Dichlorobenzene
Concen: 48.618 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



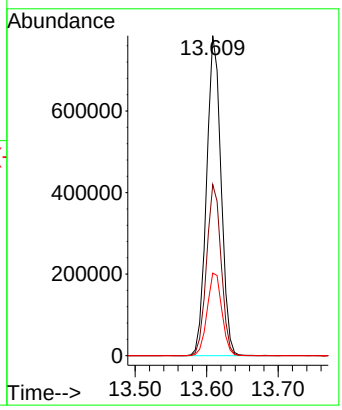


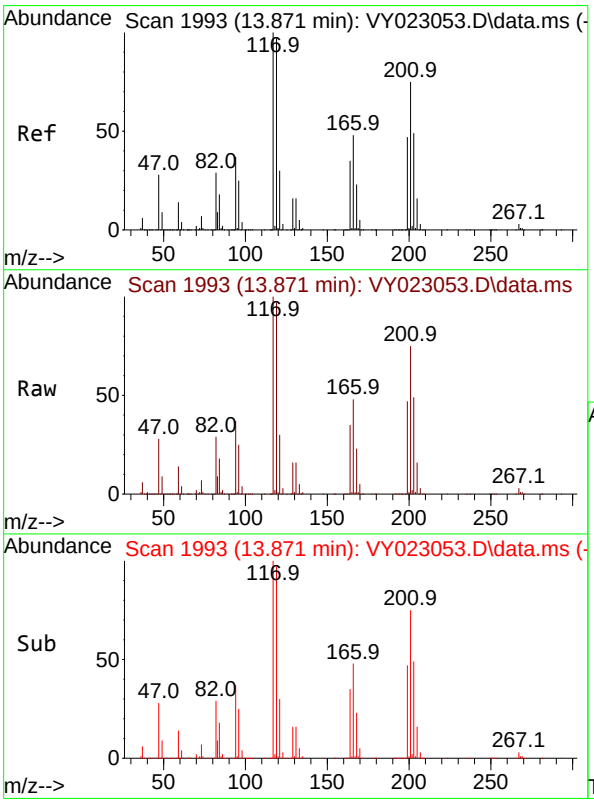
#89
n-Butylbenzene
Concen: 50.454 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

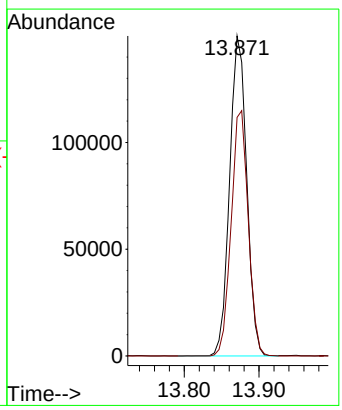


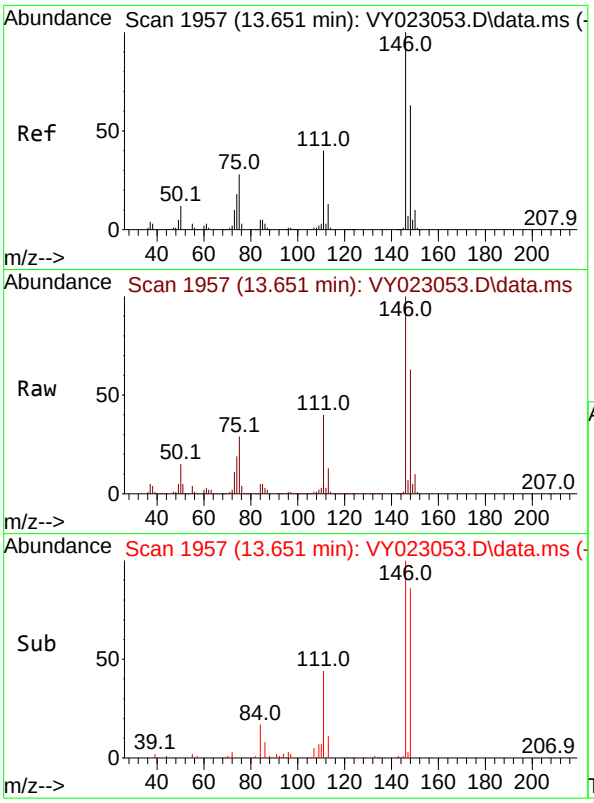


#90
Hexachloroethane
Concen: 48.984 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 238005

Ion	Ratio	Lower	Upper
117	100		
201	76.7	38.4	115.1



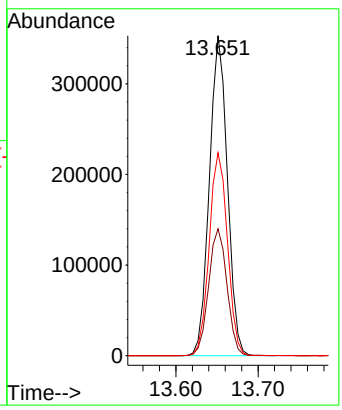


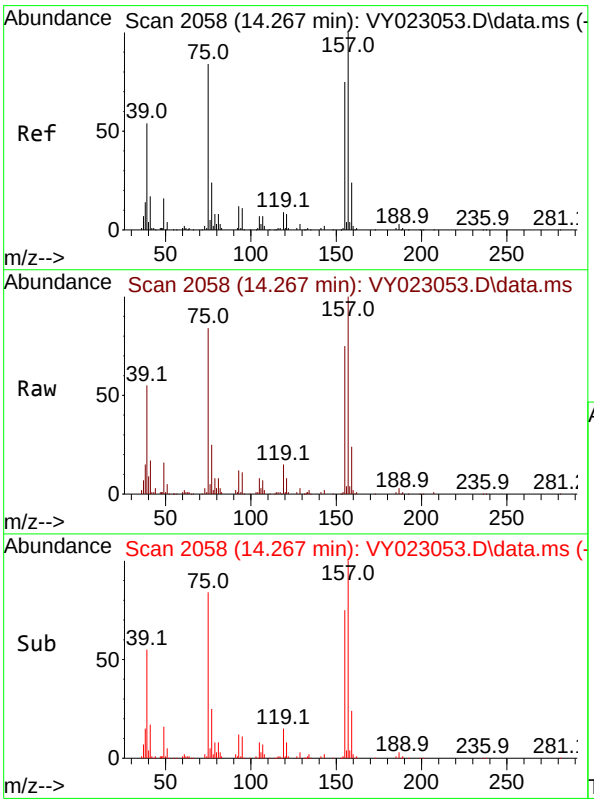
#91
1,2-Dichlorobenzene
Concen: 48.772 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

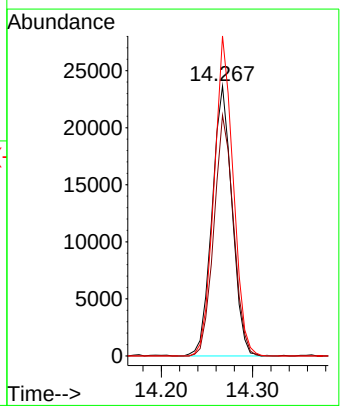


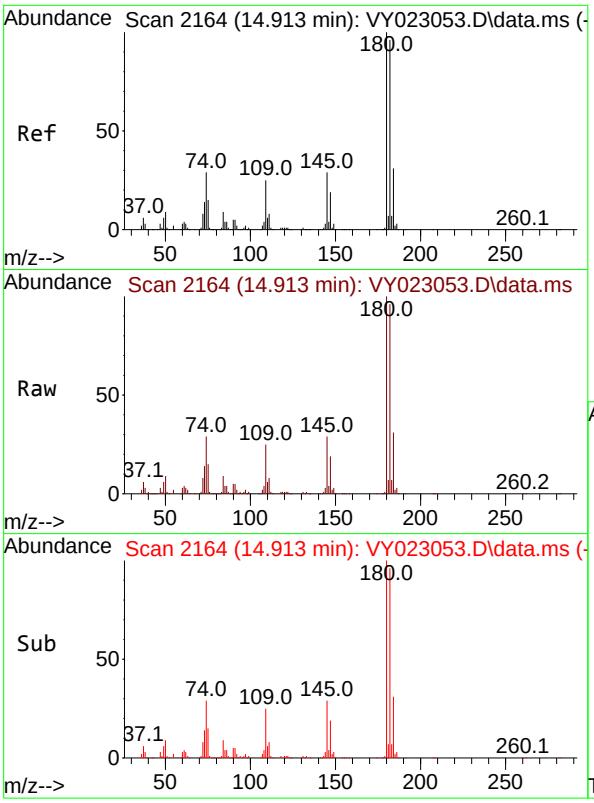


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.592 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



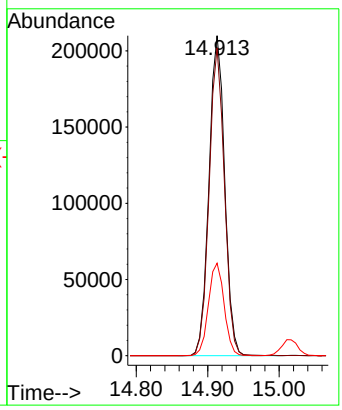


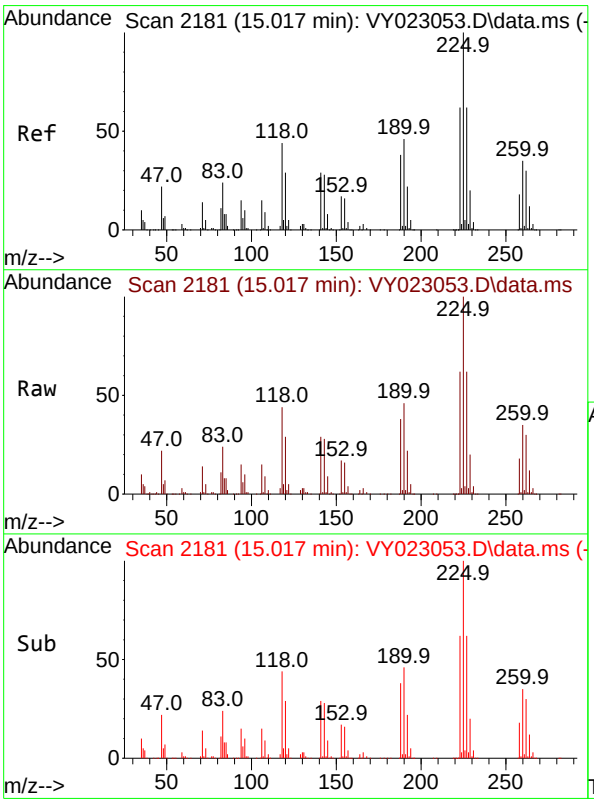
#93
1,2,4-Trichlorobenzene
Concen: 49.192 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

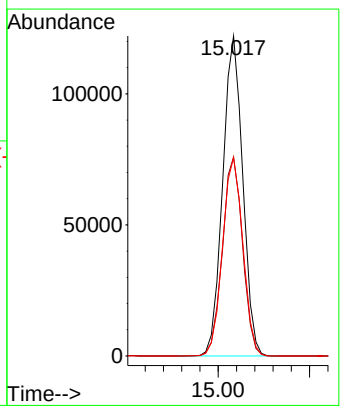


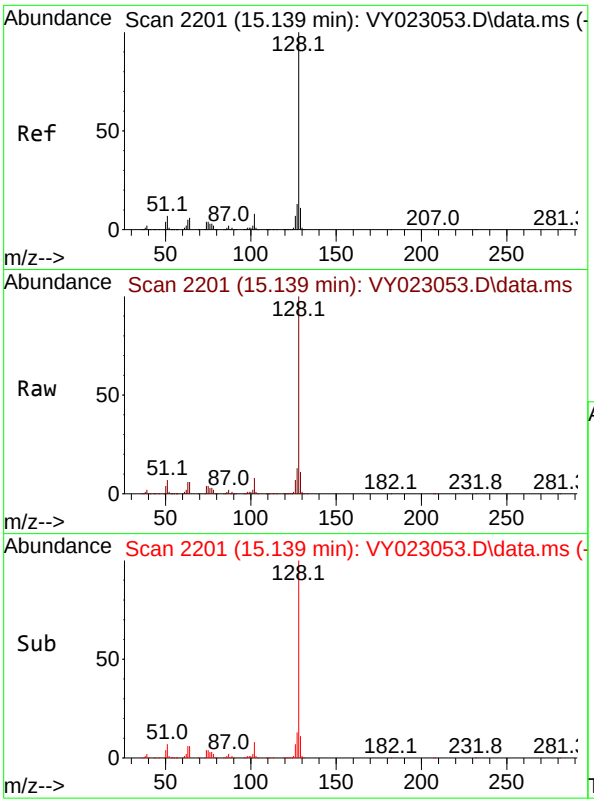


#94
Hexachlorobutadiene
Concen: 48.543 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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



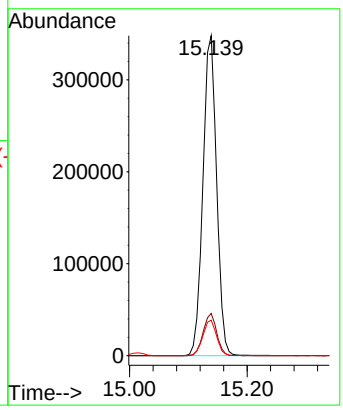


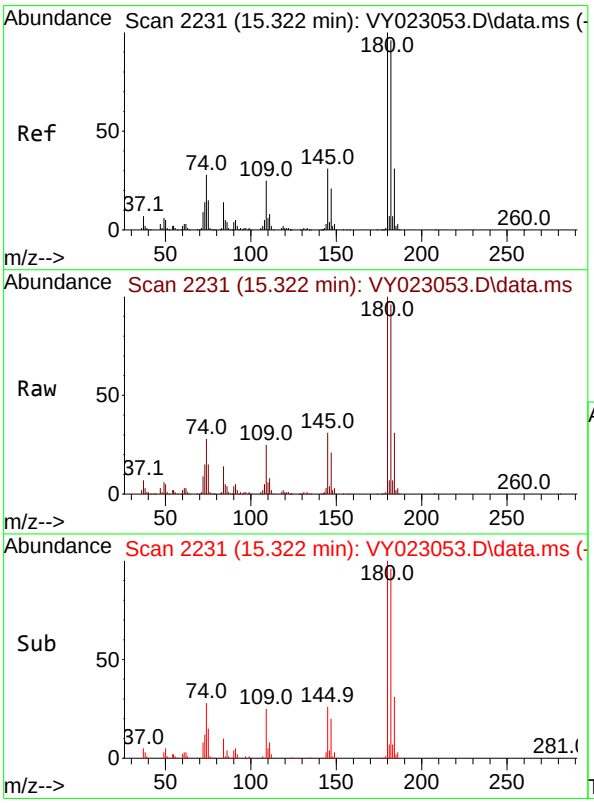
#95
Naphthalene
Concen: 50.685 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

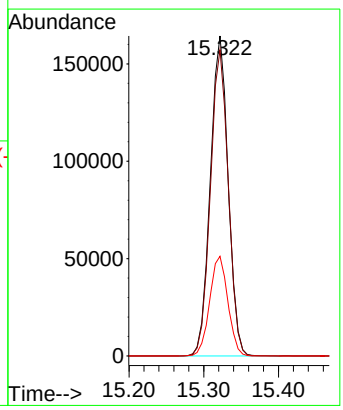




#96
1,2,3-Trichlorobenzene
Concen: 48.540 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

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

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)
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

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)

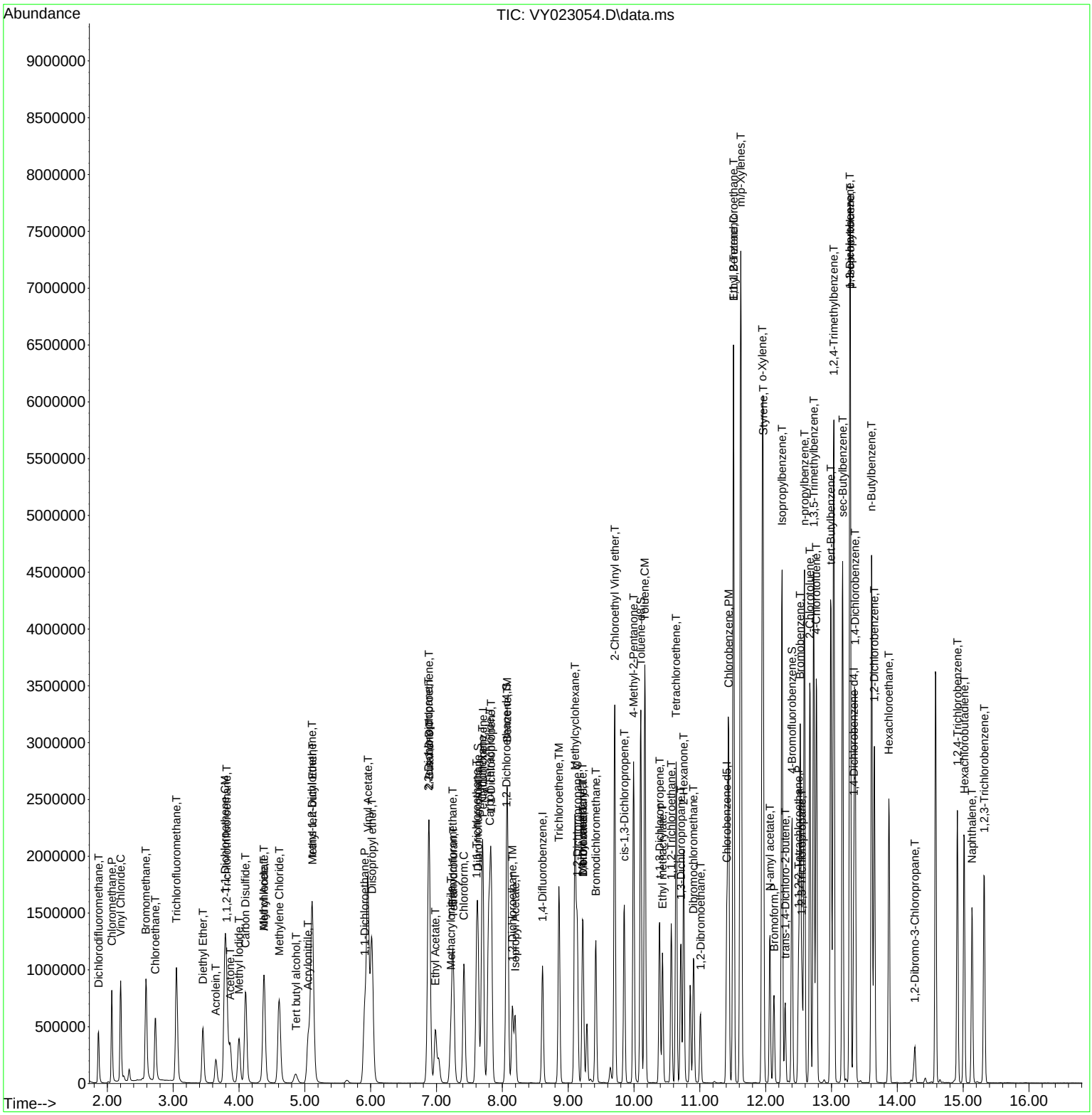
(#) = qualifier out of range (m) = manual integration (+) = signals summed

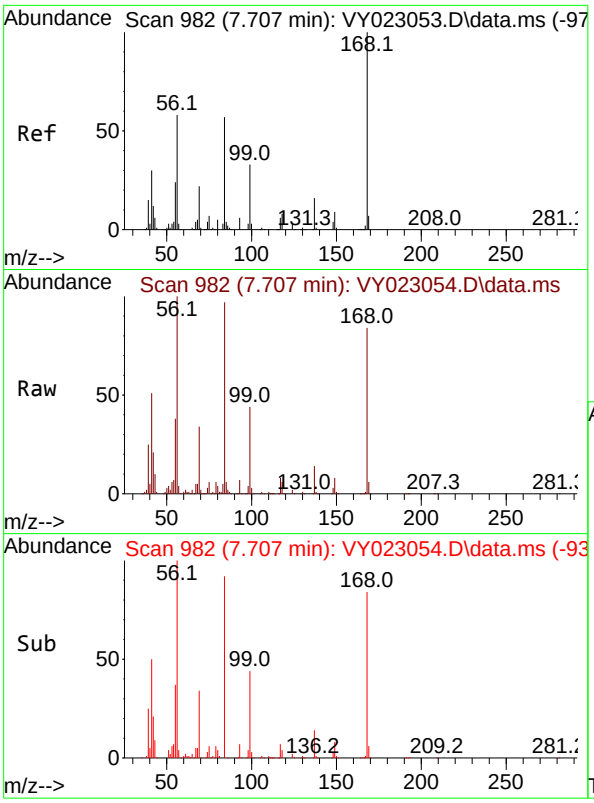
Quantitation Report (Not Reviewed)

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



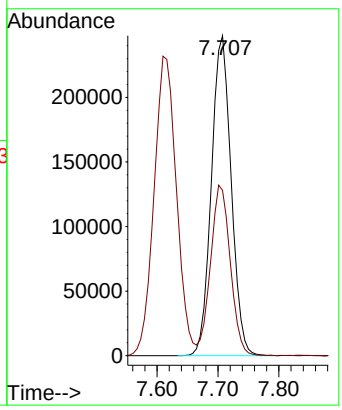


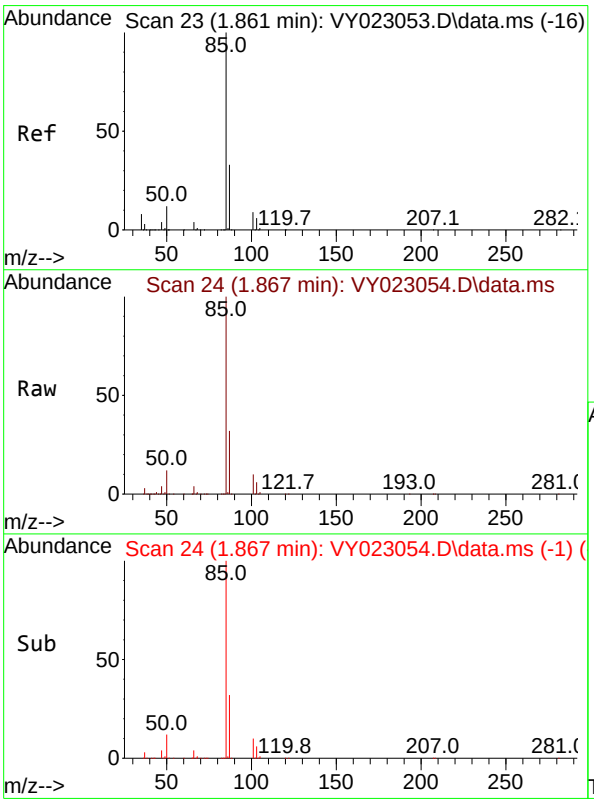
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 558266

Ion	Ratio	Lower	Upper
168	100		
99	51.7	42.8	64.2

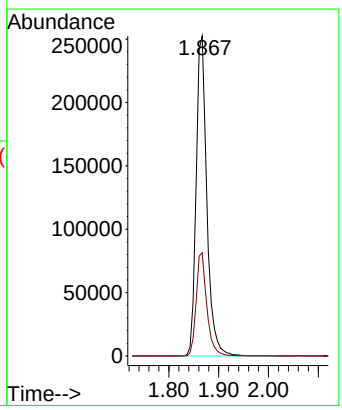


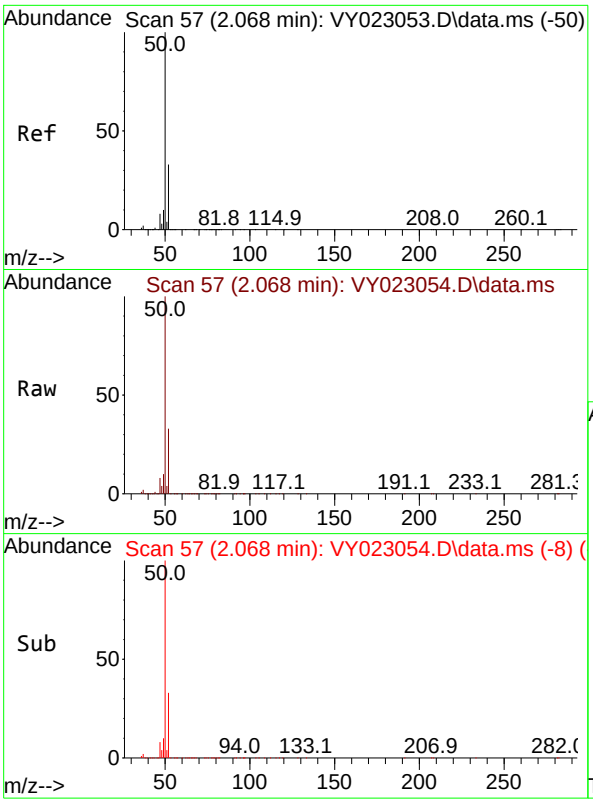


#2
Dichlorodifluoromethane
Concen: 82.570 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 85 Resp: 376261

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8



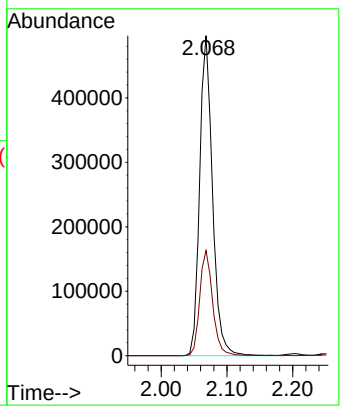


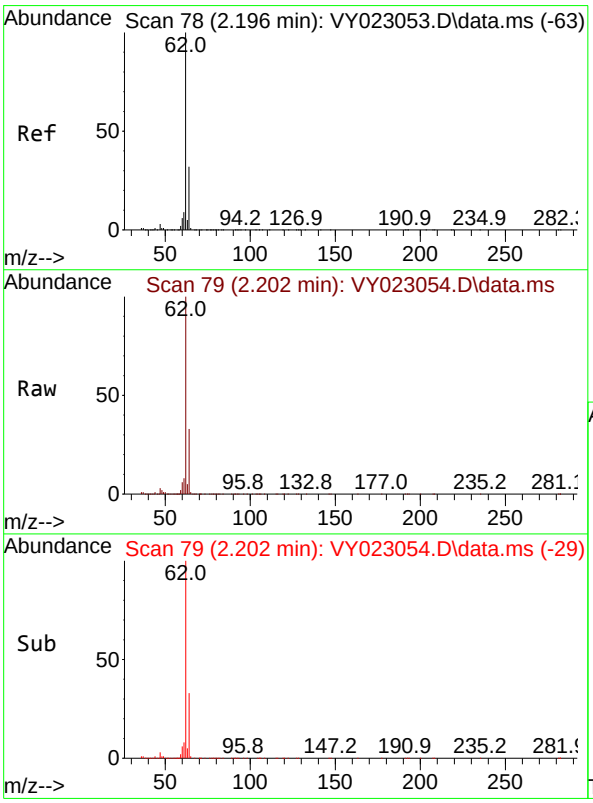
#3
Chloromethane
Concen: 91.248 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 673475

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.7	40.1

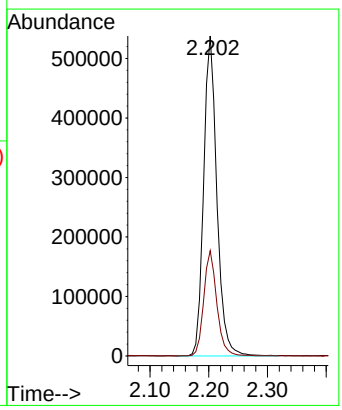


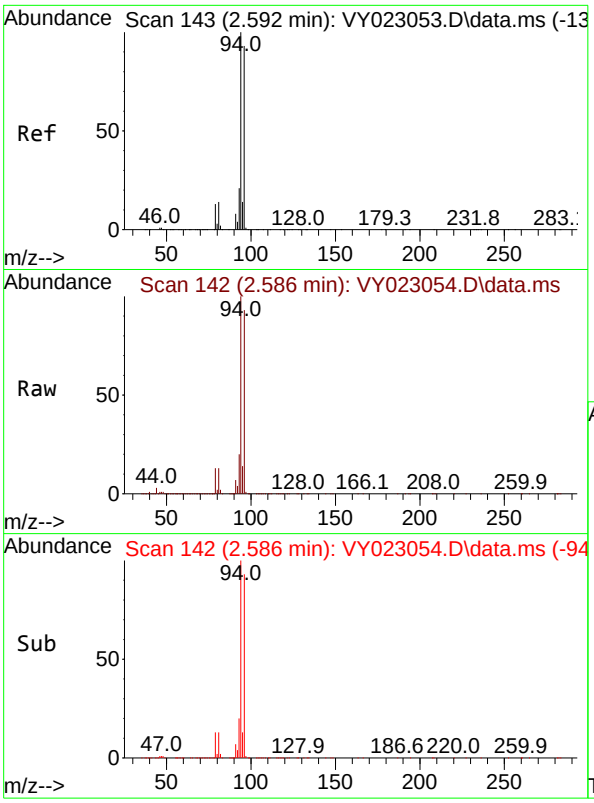


#4
Vinyl Chloride
Concen: 92.250 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 841648

Ion	Ratio	Lower	Upper
62	100		
64	32.9	25.4	38.0



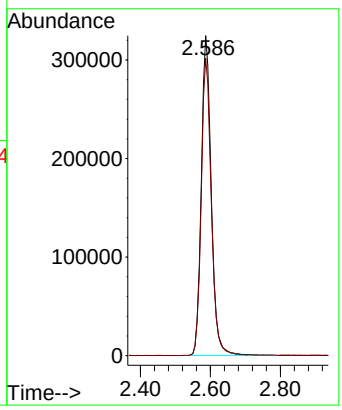


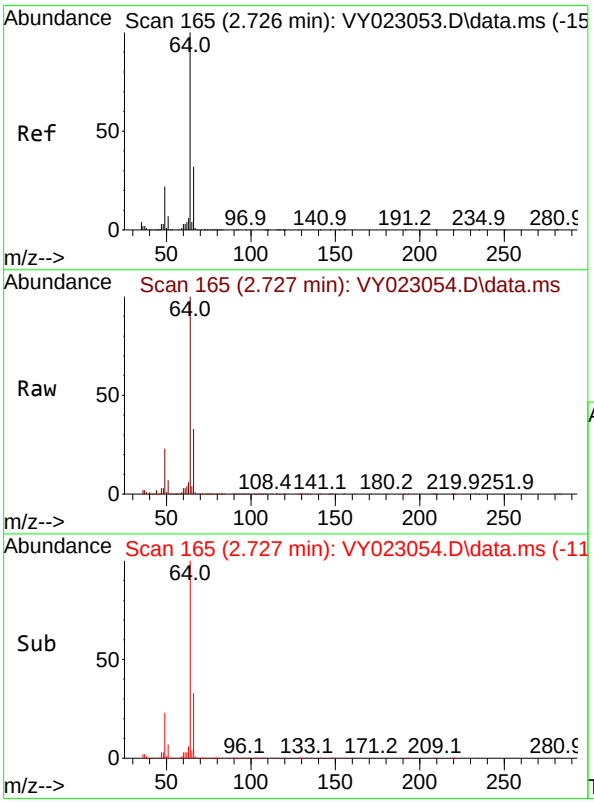
#5
Bromomethane
Concen: 94.384 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 643103

Ion	Ratio	Lower	Upper
94	100		
96	92.9	74.6	112.0

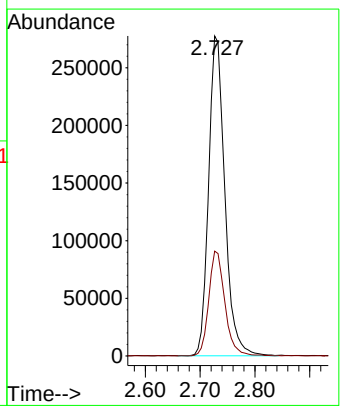


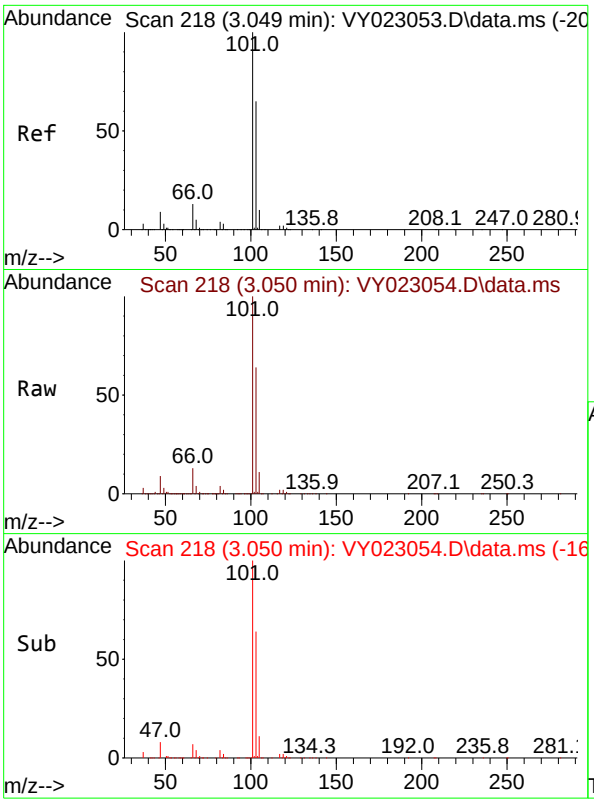


#6
Chloroethane
Concen: 93.563 ug/l
RT: 2.727 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 64 Resp: 567515

Ion	Ratio	Lower	Upper
64	100		
66	32.7	25.8	38.6



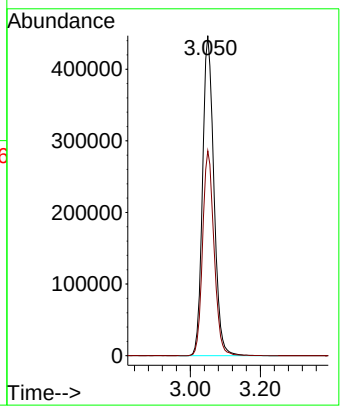


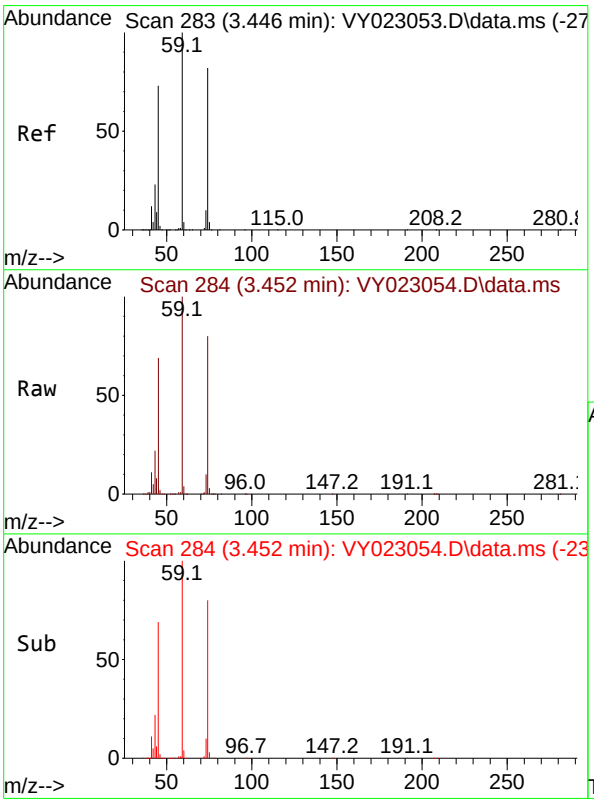
#7
Trichlorofluoromethane
Concen: 90.617 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 1005284

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.9	77.9

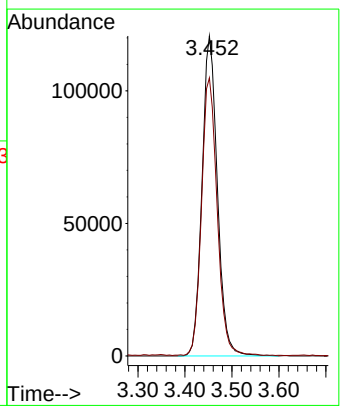


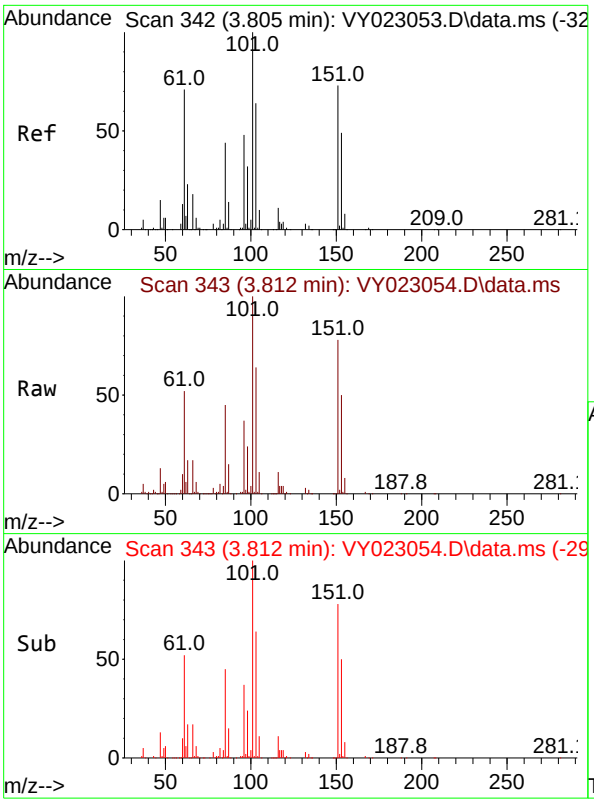


#8
Diethyl Ether
Concen: 93.150 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 74 Resp: 273400

Ion	Ratio	Lower	Upper
74	100		
45	88.2	44.4	133.2



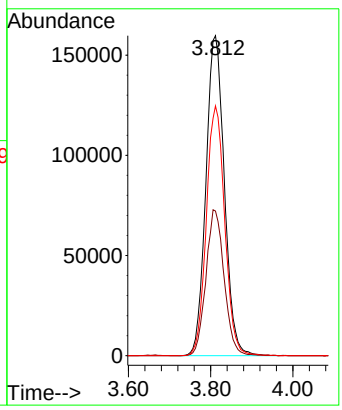


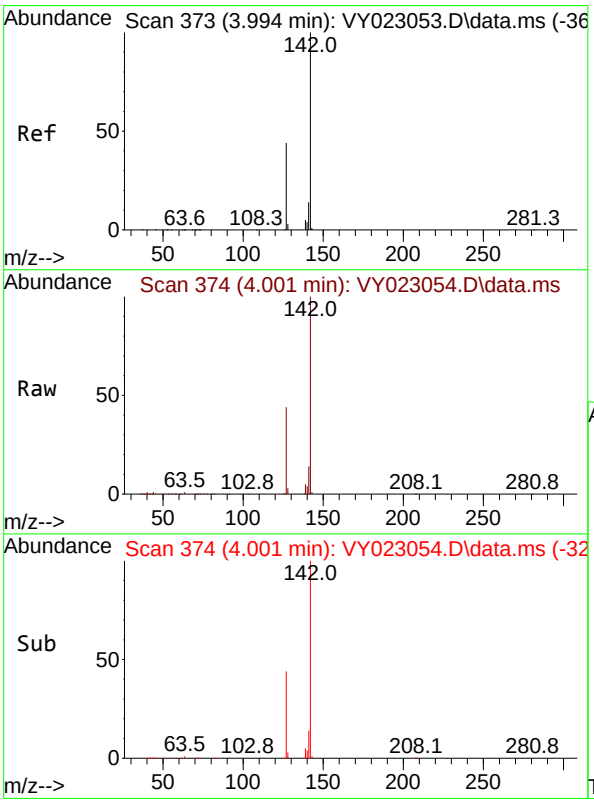
#9
1,1,2-Trichlorotrifluoroethane
Concen: 90.882 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

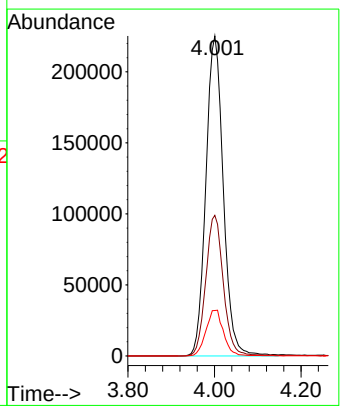


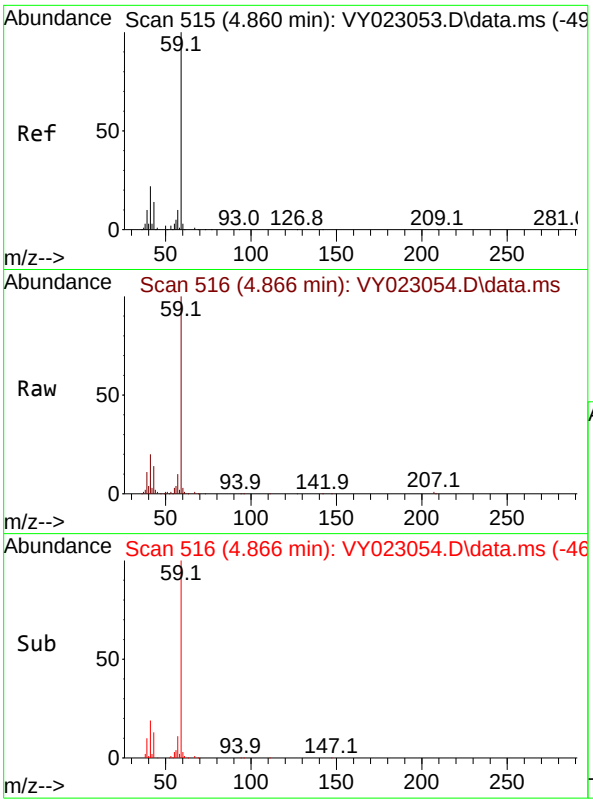


#10
Methyl Iodide
Concen: 106.635 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



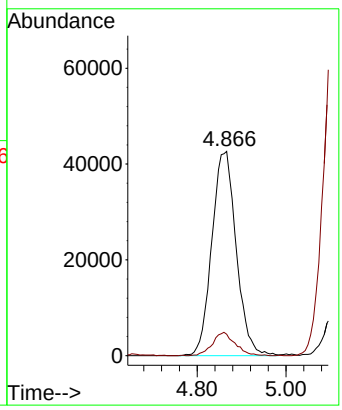


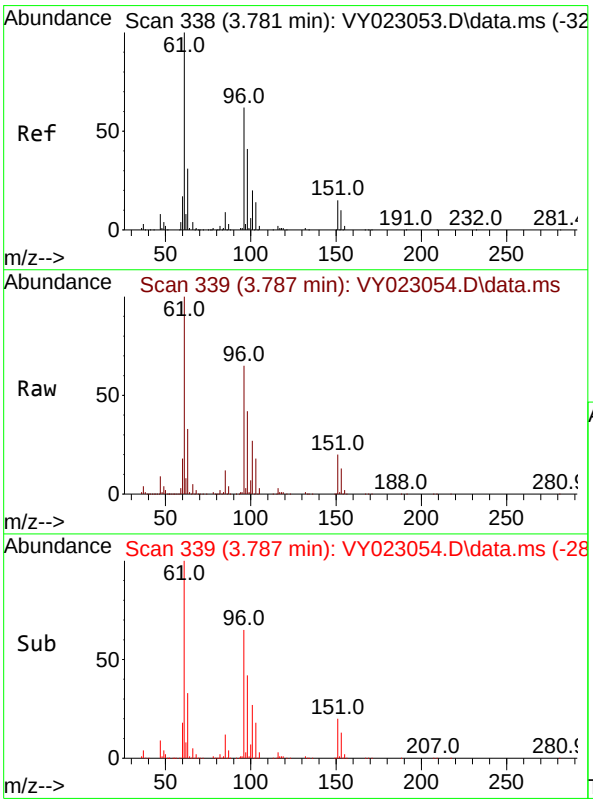
#11
Tert butyl alcohol
Concen: 445.387 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 162373

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	13.0

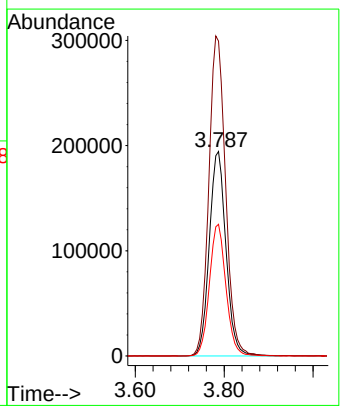


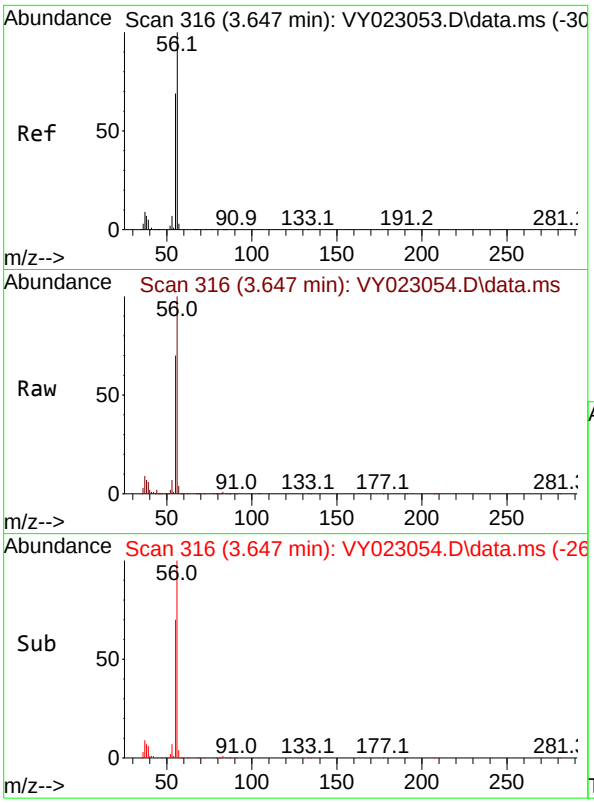


#12
1,1-Dichloroethene
Concen: 94.229 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



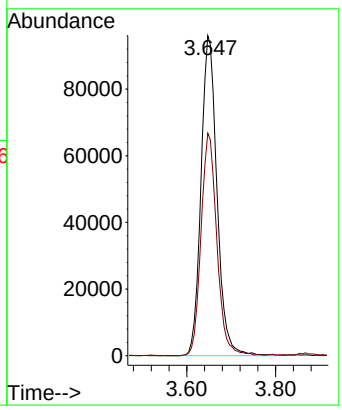


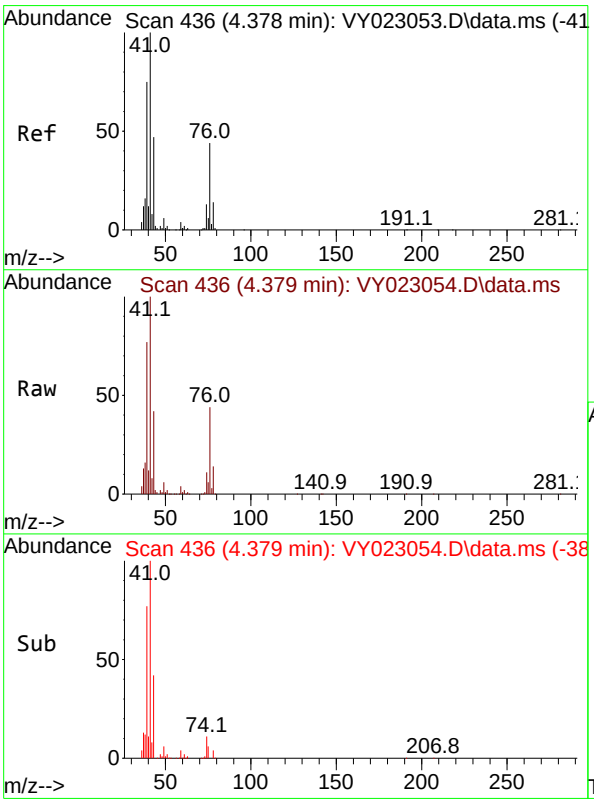
#13
Acrolein
Concen: 450.599 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 240580

Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.2	82.8

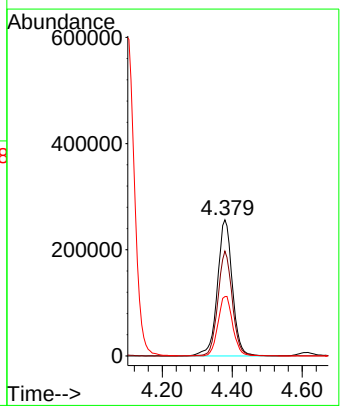


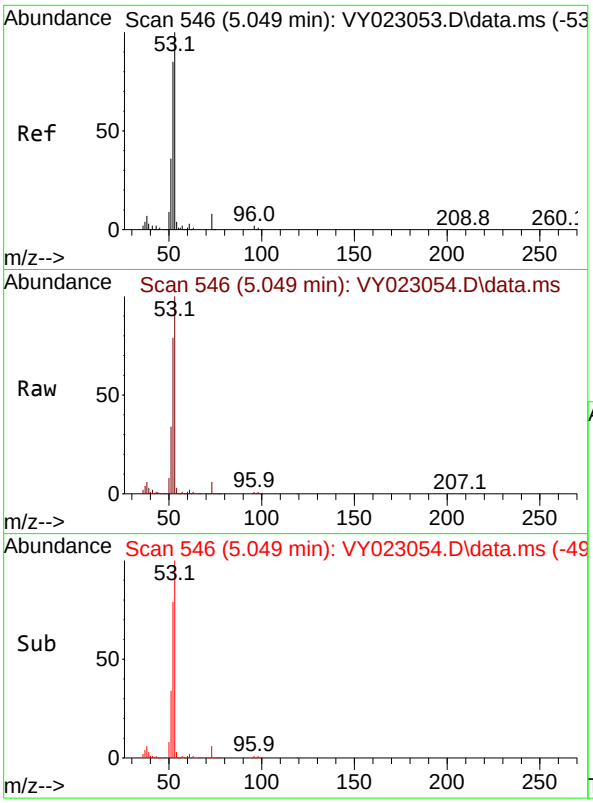


#14
Allyl chloride
Concen: 96.000 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



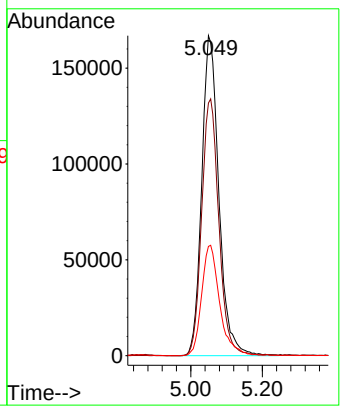


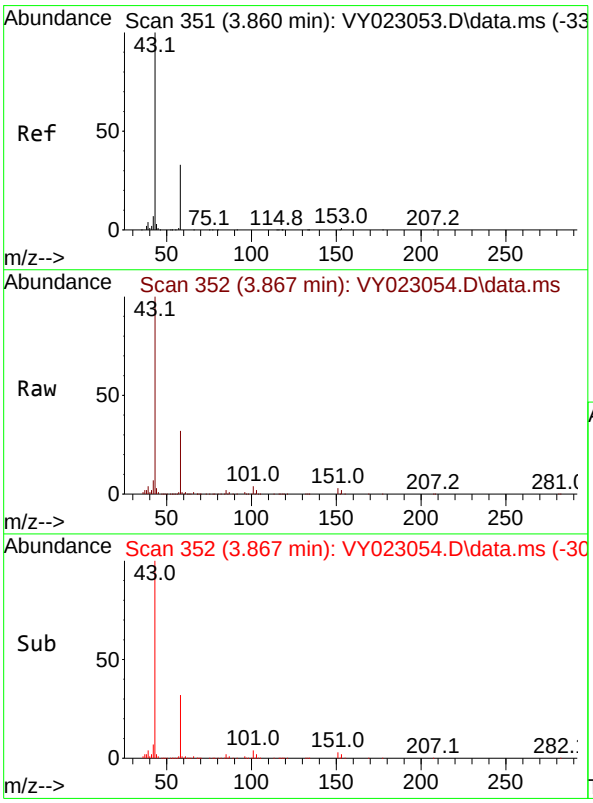
#15
Acrylonitrile
Concen: 465.802 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

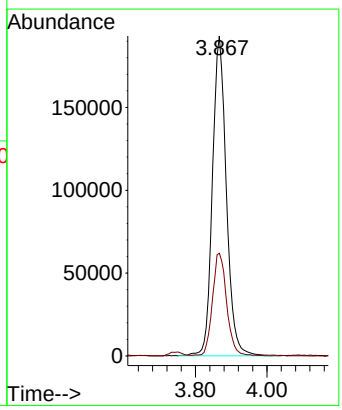


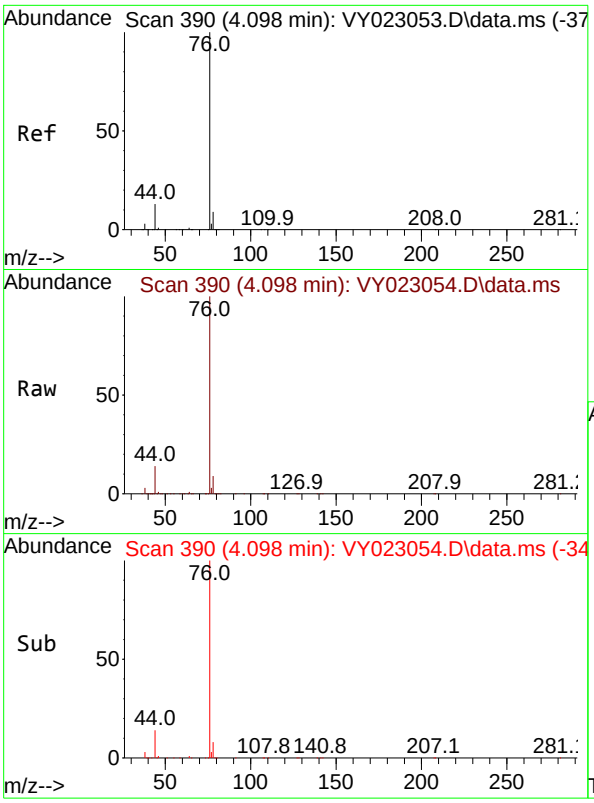


#16
Acetone
Concen: 453.007 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 522178

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7



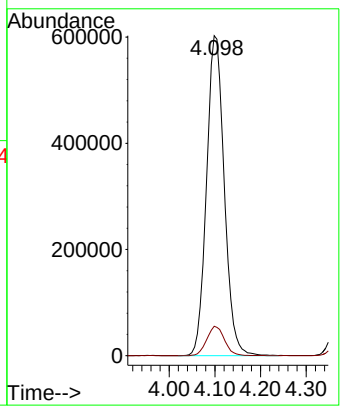


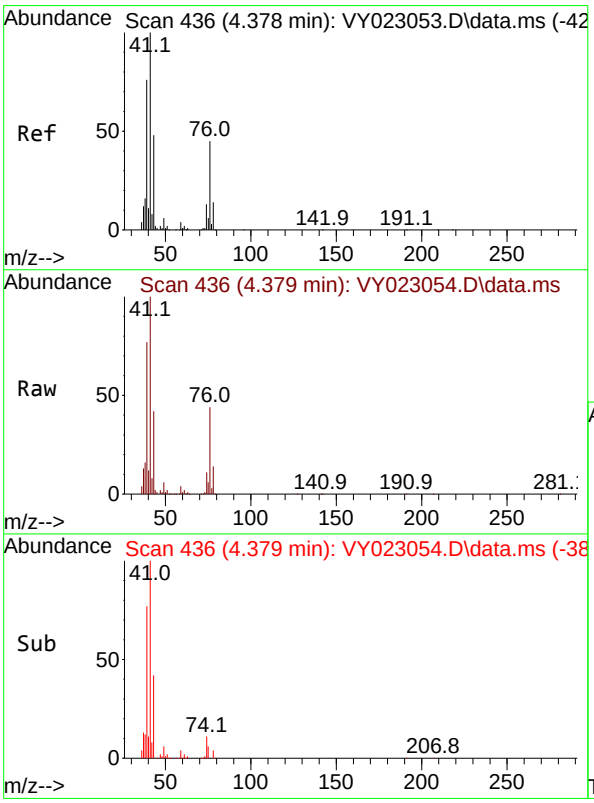
#17
Carbon Disulfide
Concen: 92.494 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 1622451

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2

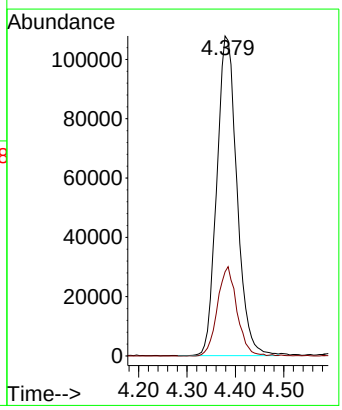


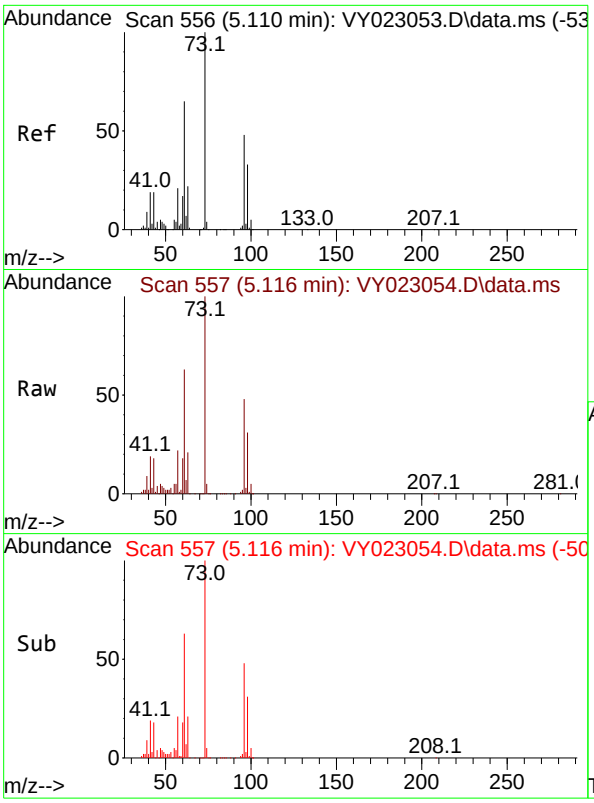


#18
Methyl Acetate
Concen: 90.993 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 312127

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8



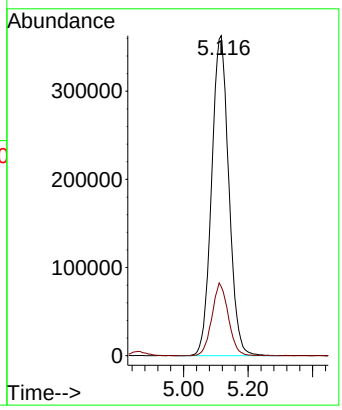


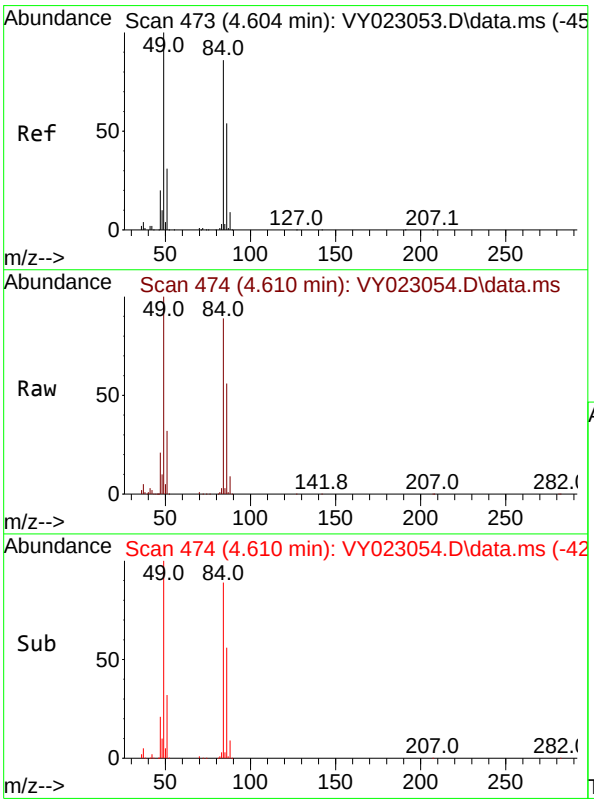
#19
Methyl tert-butyl Ether
Concen: 96.284 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 1342237

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

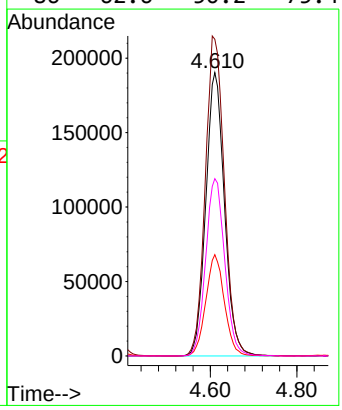


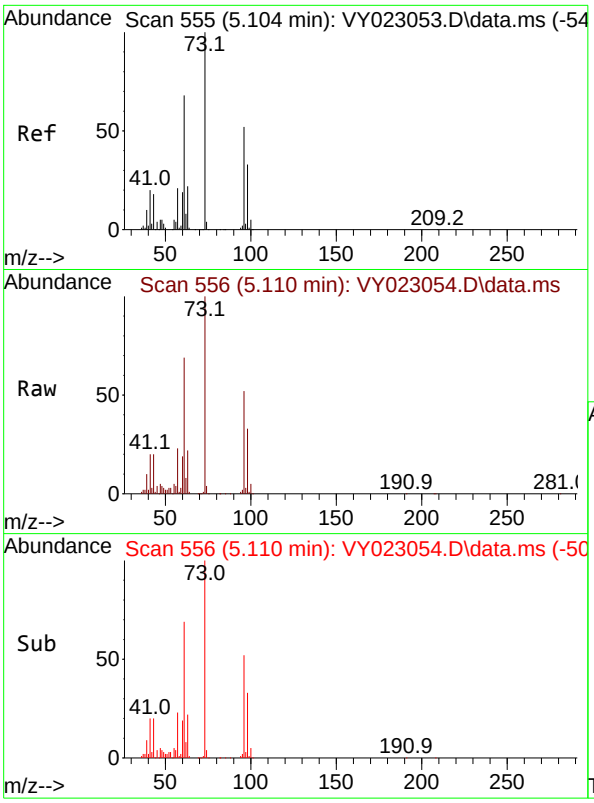


#20
Methylene Chloride
Concen: 97.847 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



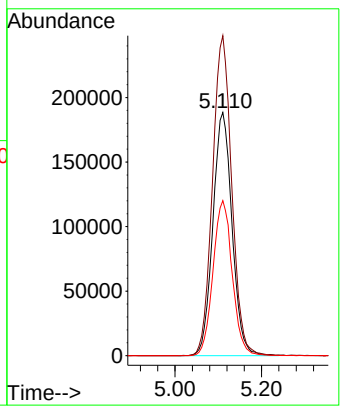


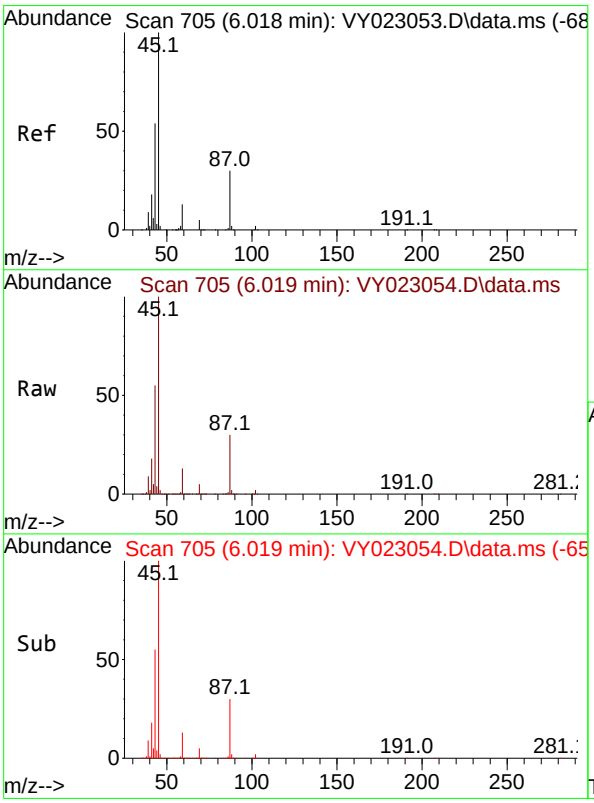
#21
trans-1,2-Dichloroethene
Concen: 96.098 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

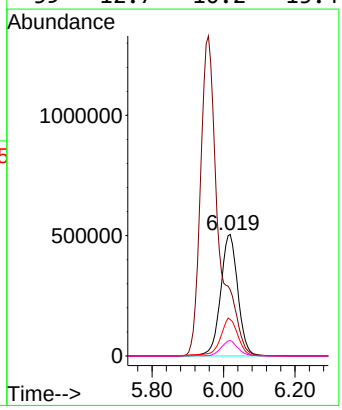


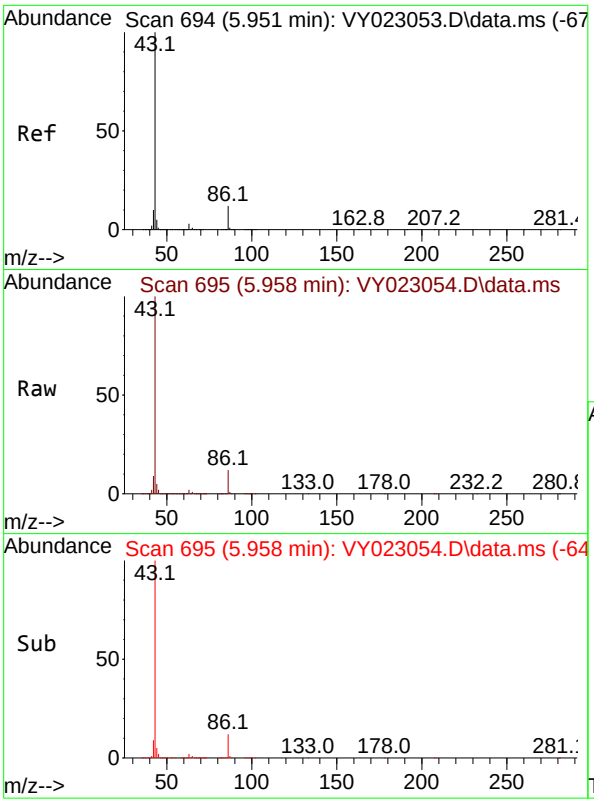


#22
Diisopropyl ether
Concen: 98.033 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



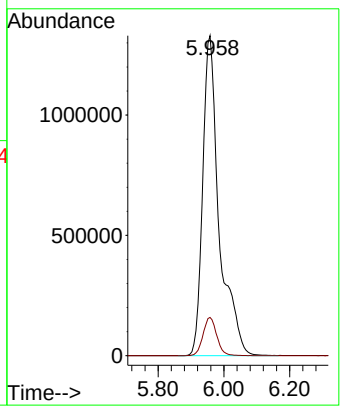


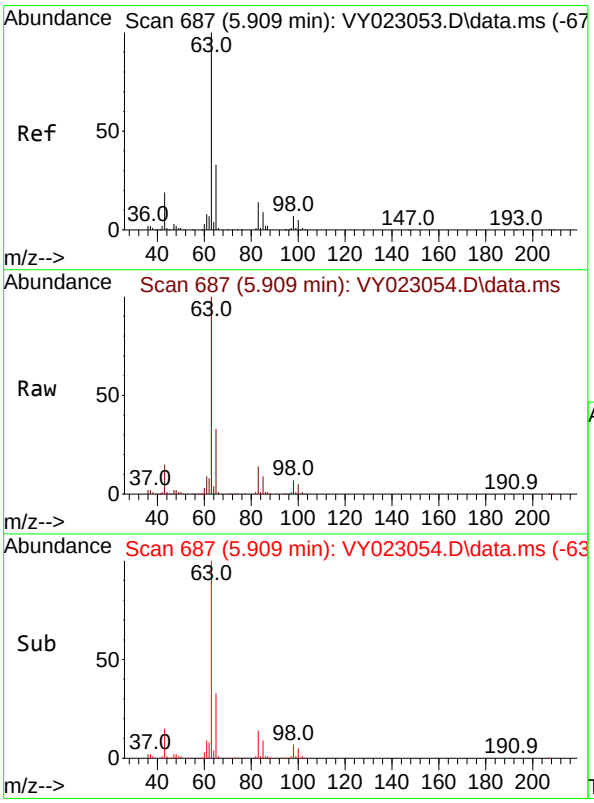
#23
Vinyl Acetate
Concen: 487.023 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 4632278

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4

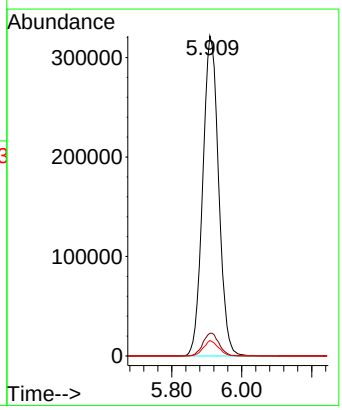


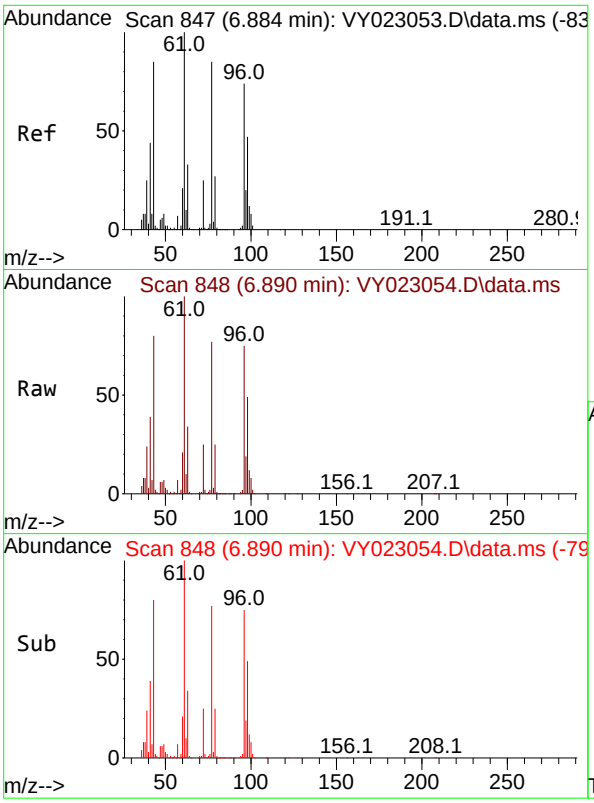


#24
1,1-Dichloroethane
Concen: 96.306 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



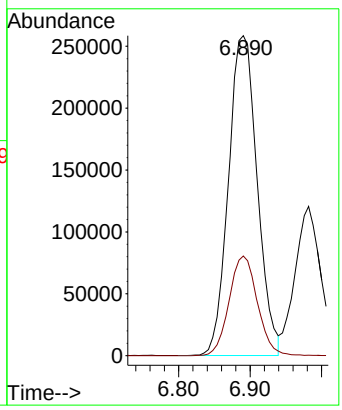


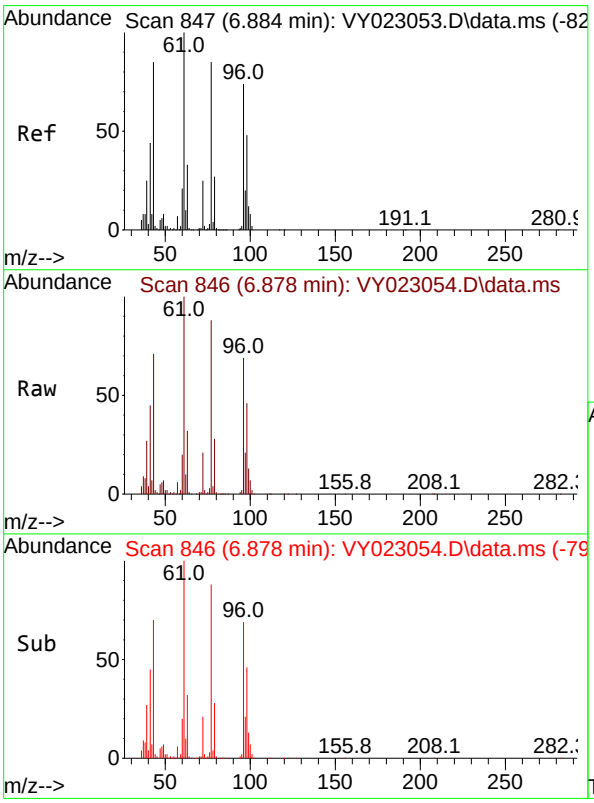
#25
2-Butanone
Concen: 460.899 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 722555

Ion	Ratio	Lower	Upper
43	100		
72	31.2	23.5	35.3

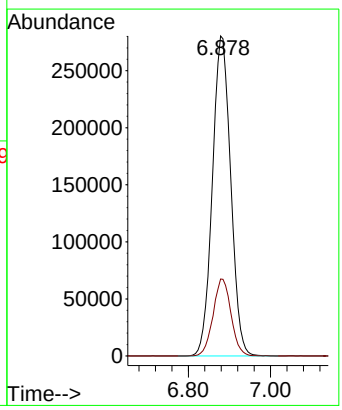


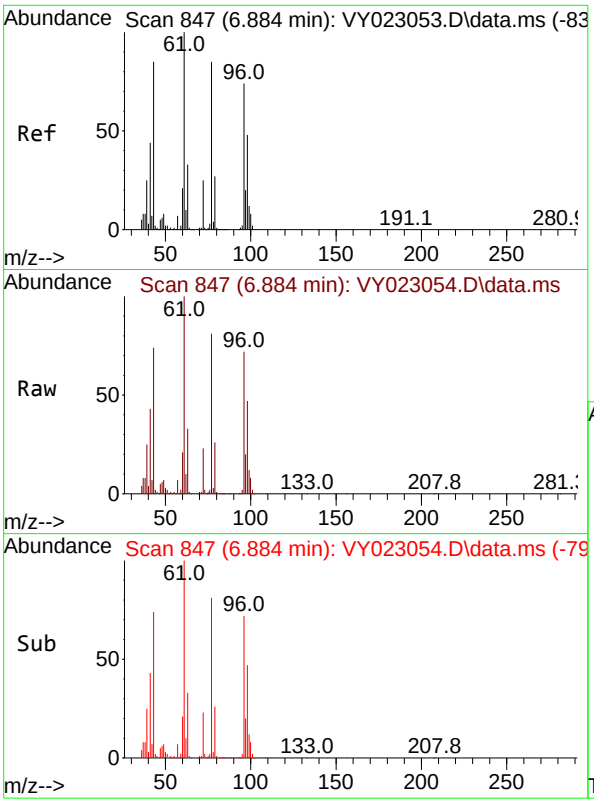


#26
2,2-Dichloropropane
Concen: 95.497 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 77 Resp: 866598

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.8



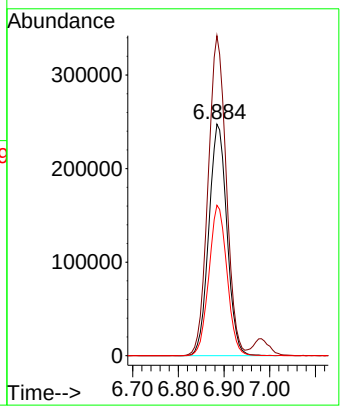


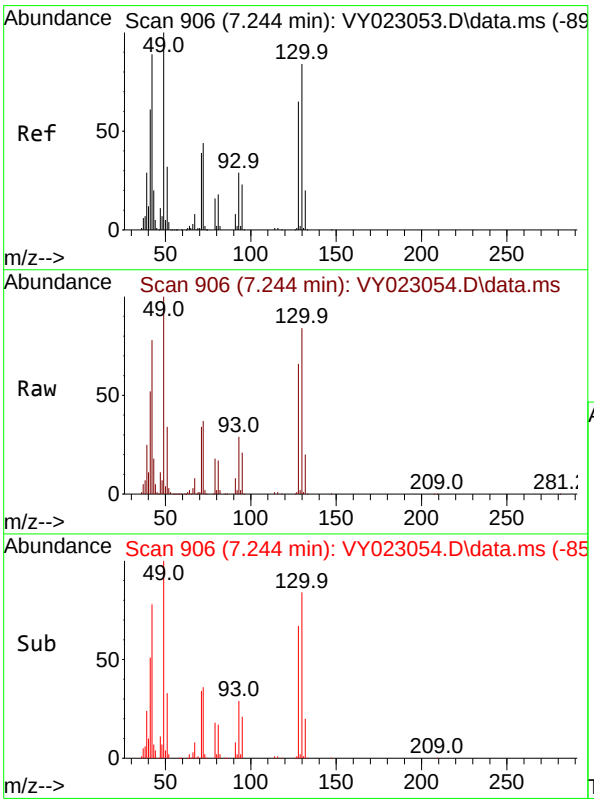
#27
cis-1,2-Dichloroethene
Concen: 97.472 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

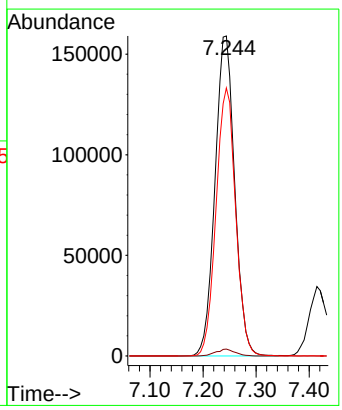


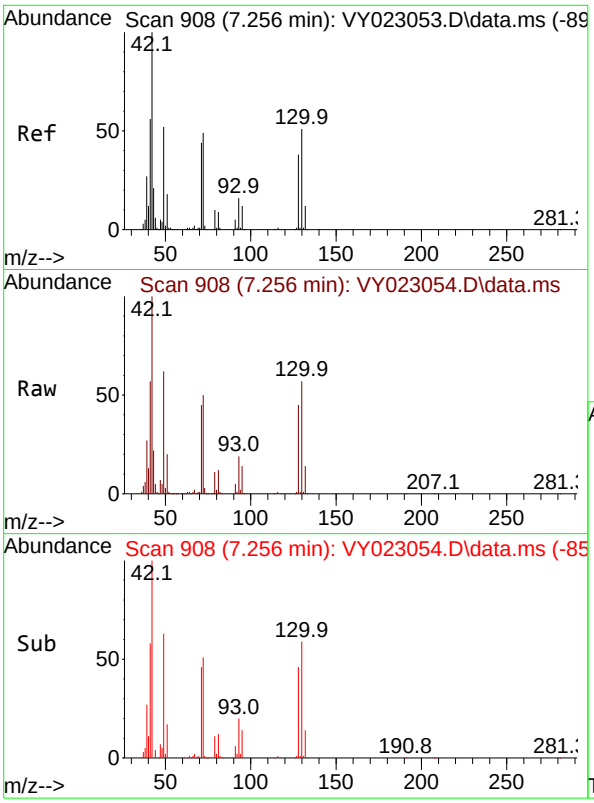


#28
Bromochloromethane
Concen: 98.188 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



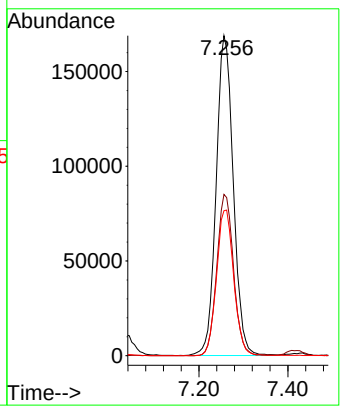


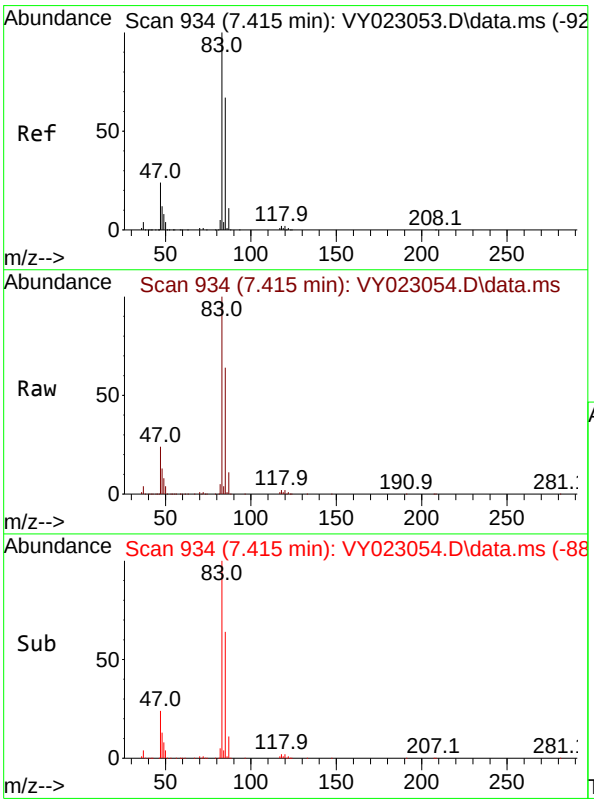
#29
Tetrahydrofuran
Concen: 464.370 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

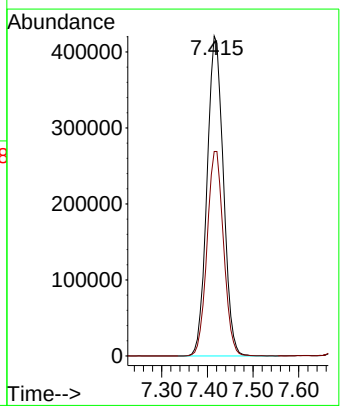


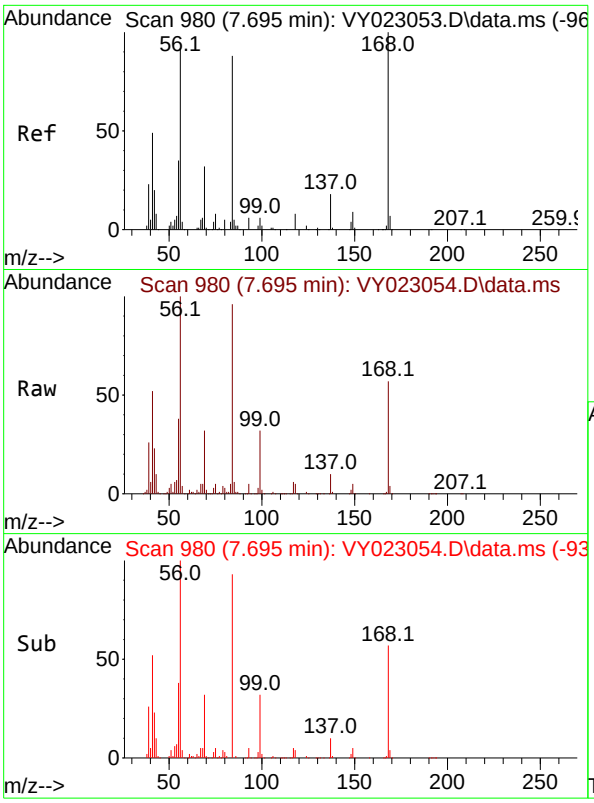


#30
Chloroform
Concen: 96.383 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 1045381

Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.8	80.8



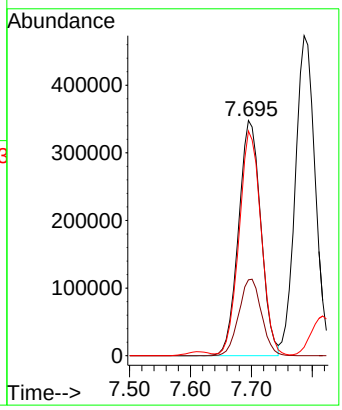


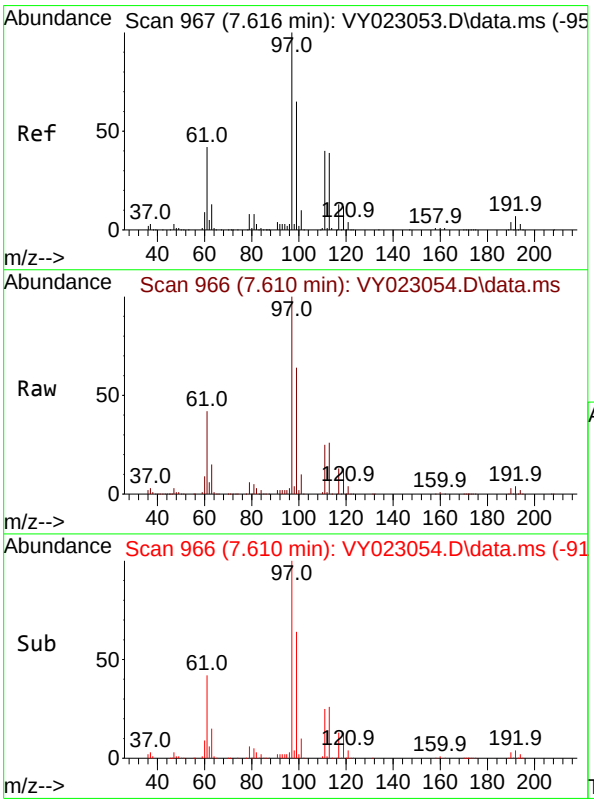
#31
Cyclohexane
Concen: 89.271 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

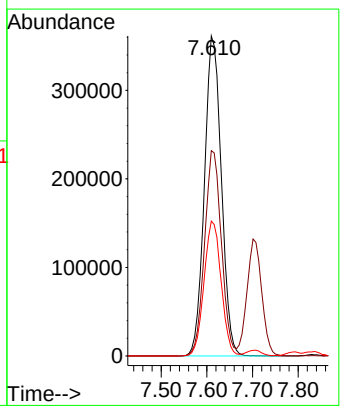


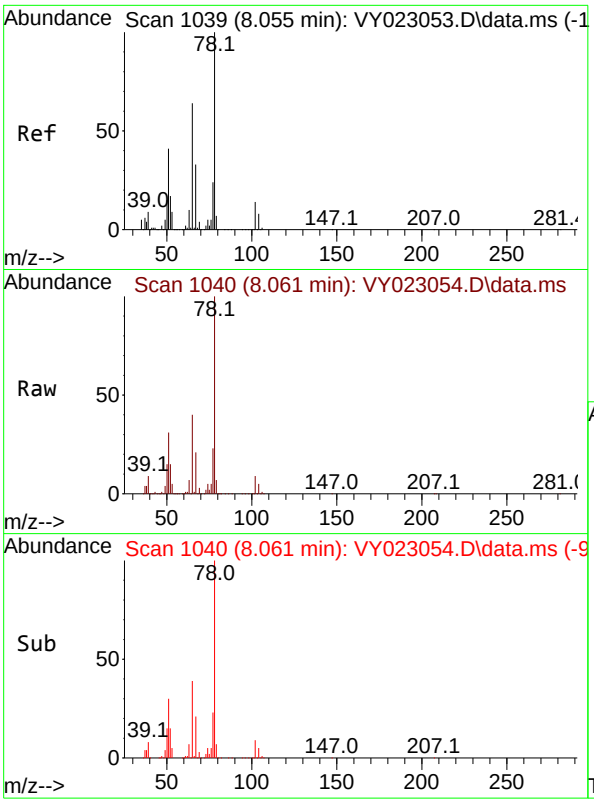


#32
1,1,1-Trichloroethane
Concen: 96.620 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



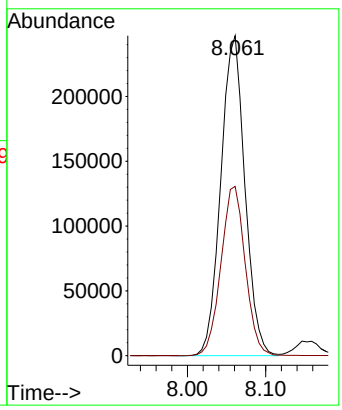


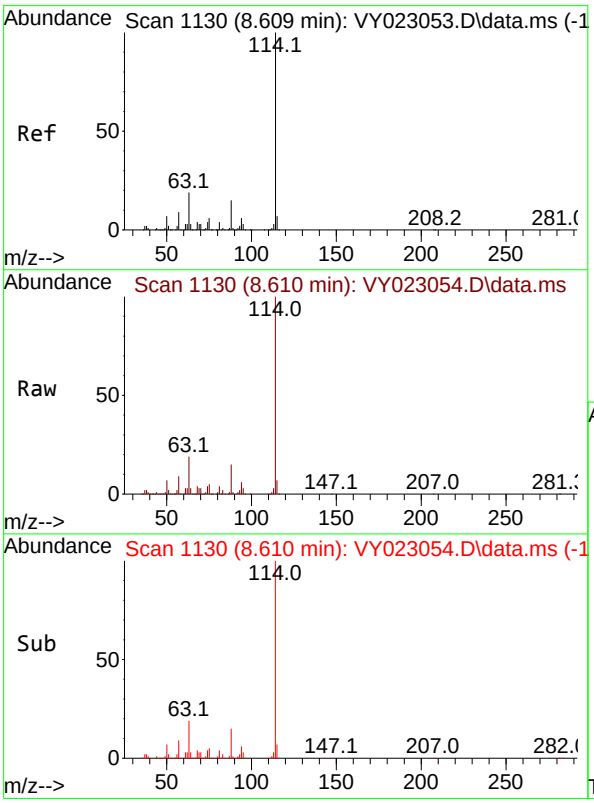
#33
1,2-Dichloroethane-d4
Concen: 99.115 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 527356

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	106.8

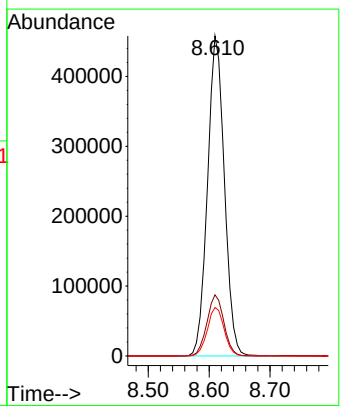


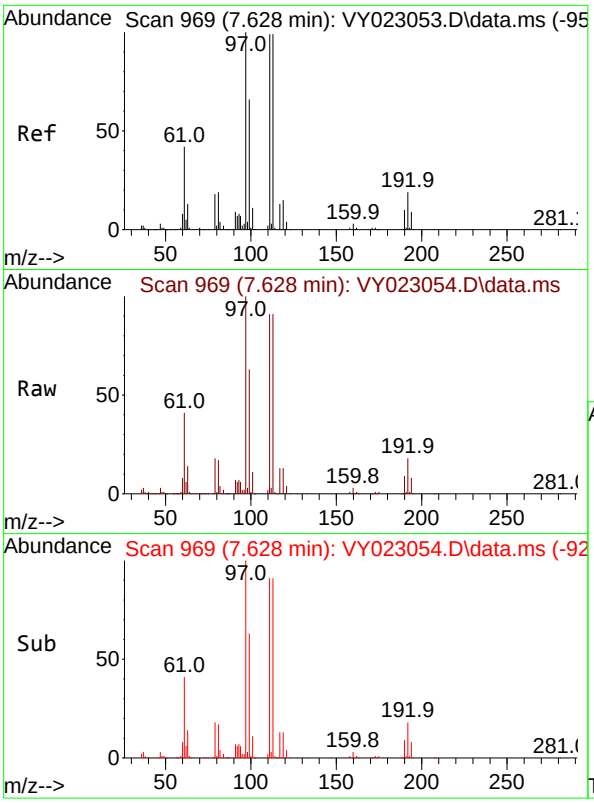


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



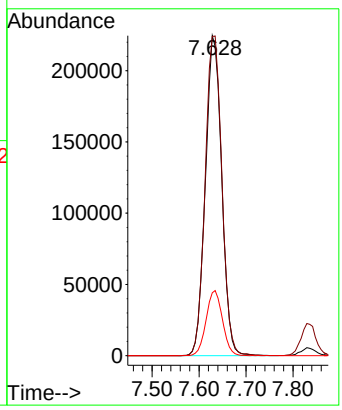


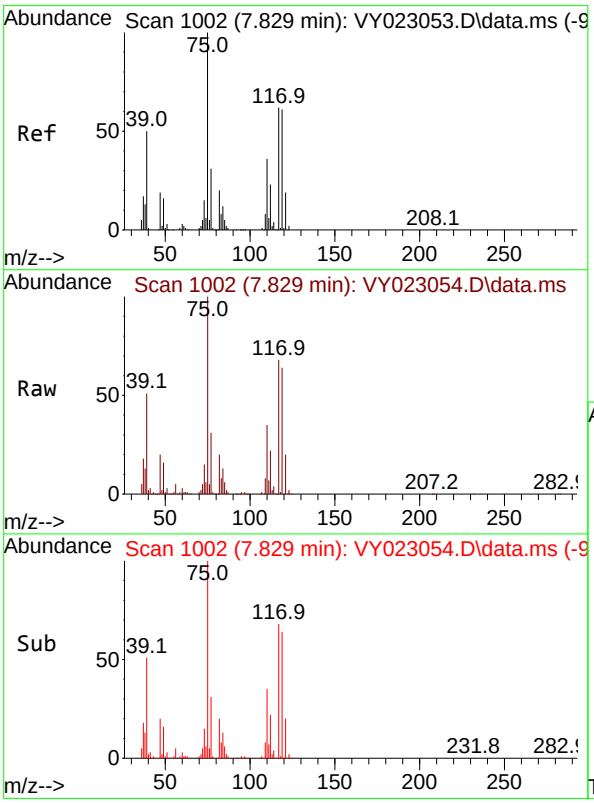
#35
Dibromofluoromethane
Concen: 102.518 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

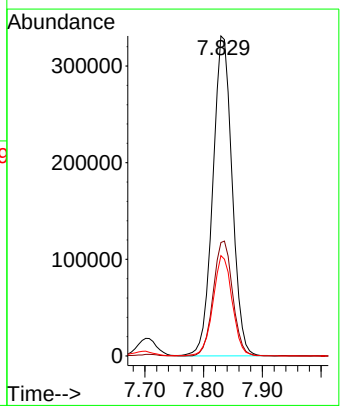


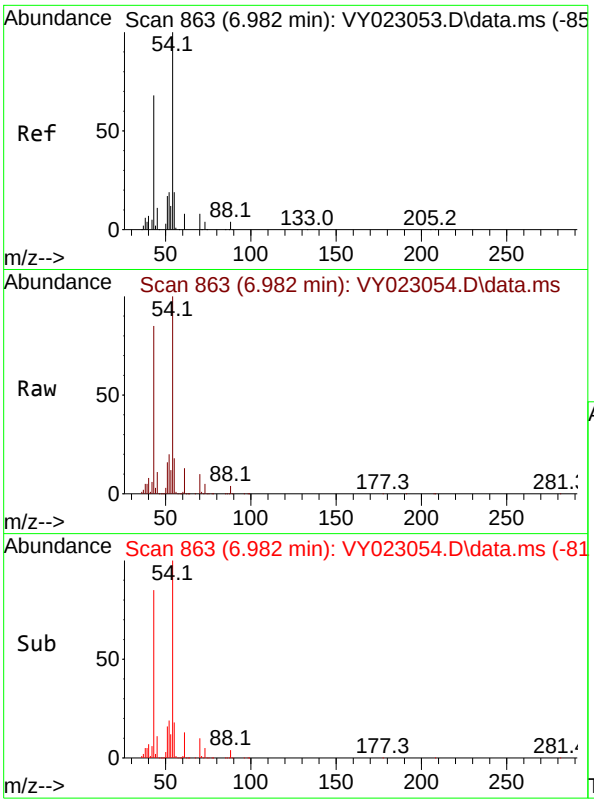


#36
1,1-Dichloropropene
Concen: 96.443 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



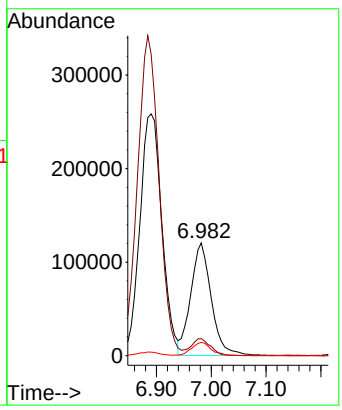


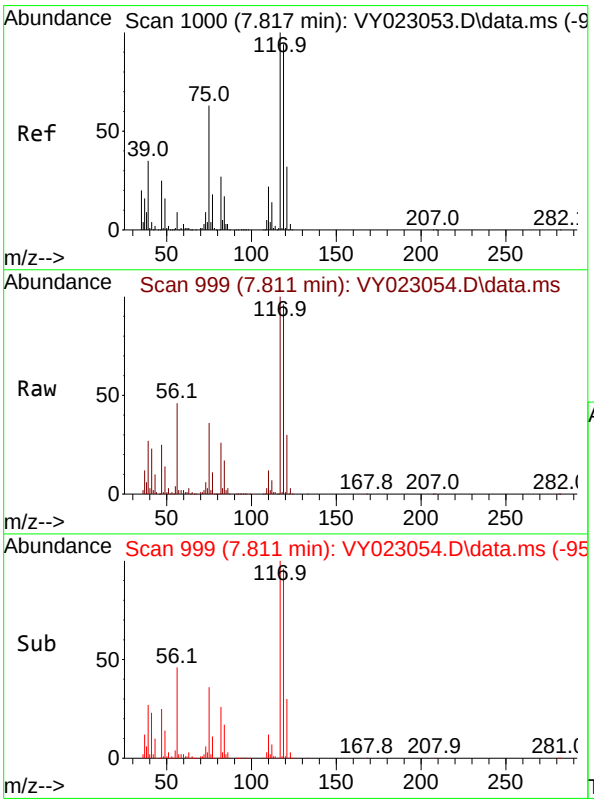
#37
Ethyl Acetate
Concen: 95.302 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

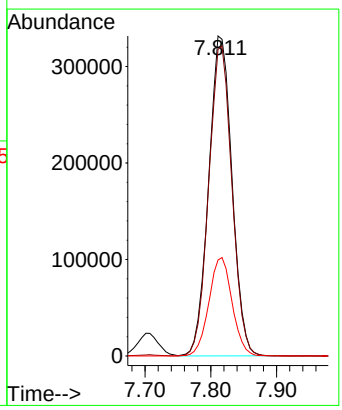


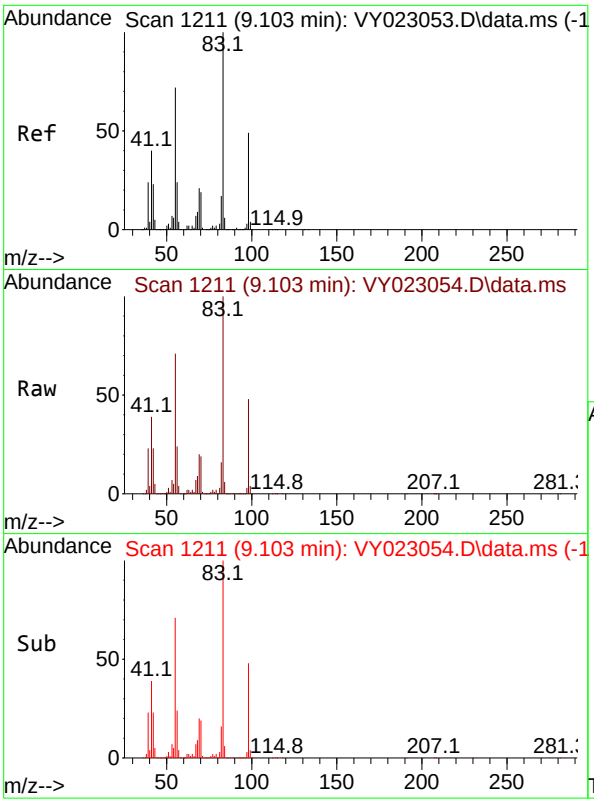


#38
Carbon Tetrachloride
Concen: 96.419 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



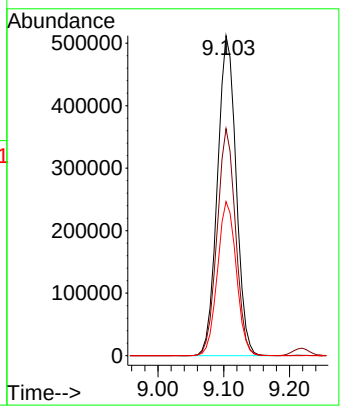


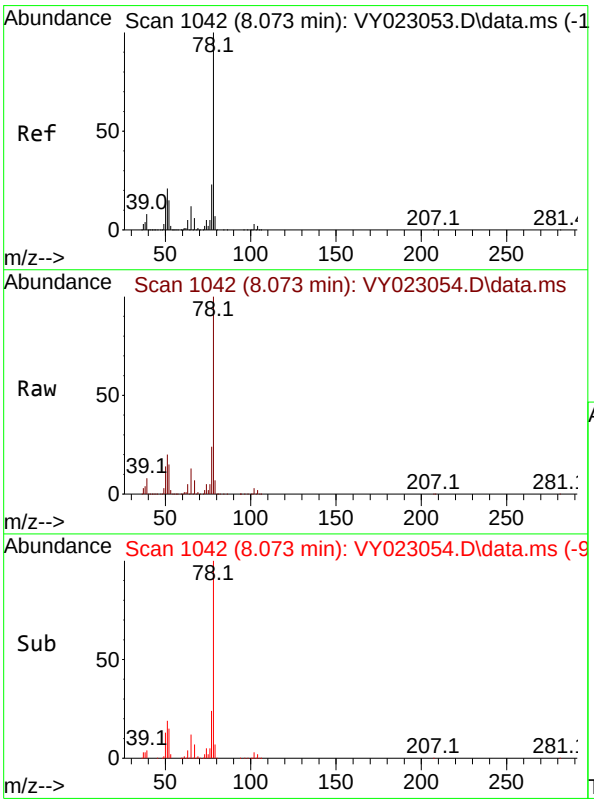
#39
Methylcyclohexane
Concen: 98.146 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

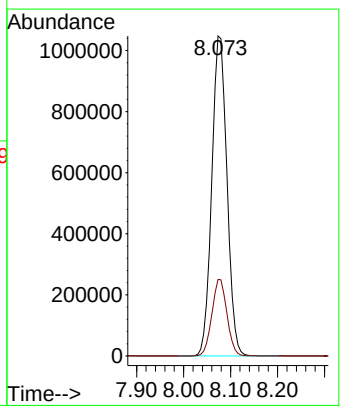


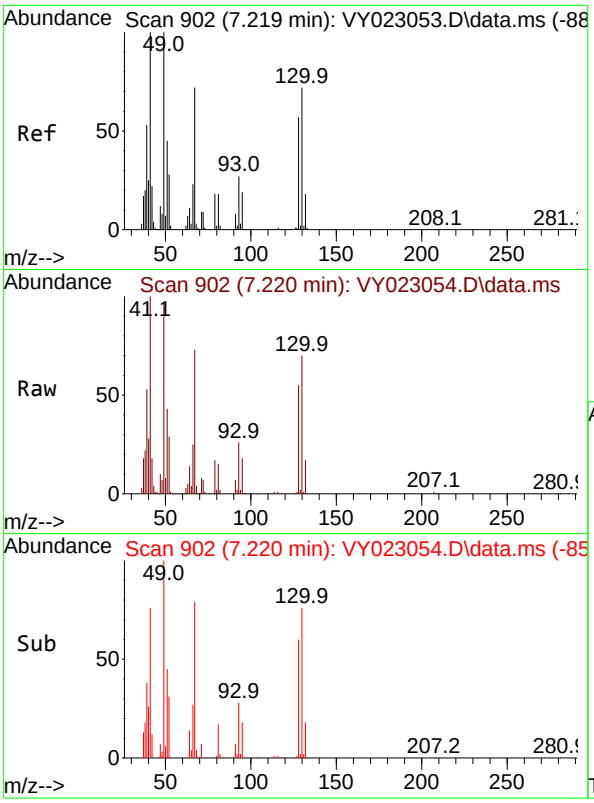


#40
Benzene
Concen: 97.324 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 78 Resp: 2348617

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0



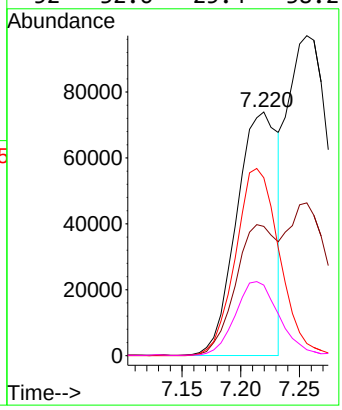


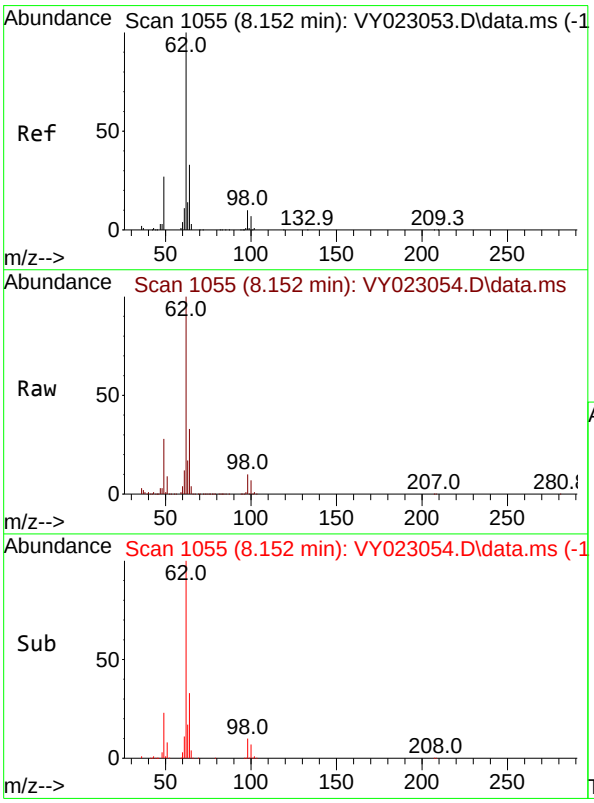
#41
Methacrylonitrile
Concen: 94.973 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

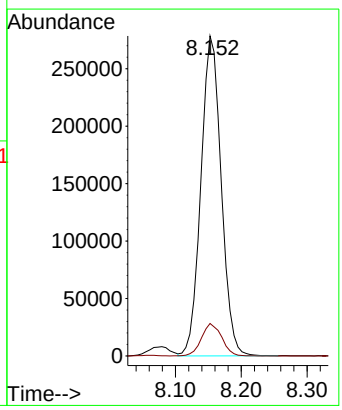


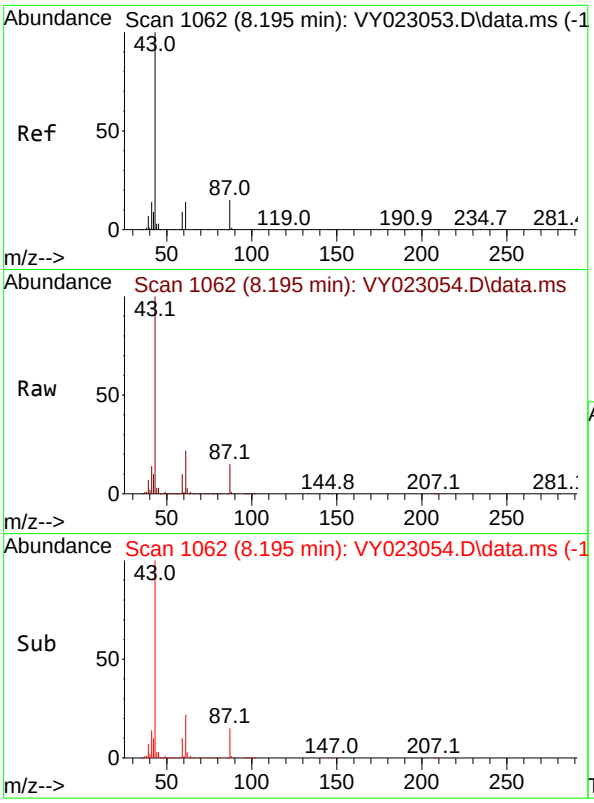


#42
1,2-Dichloroethane
Concen: 95.155 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 597215

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



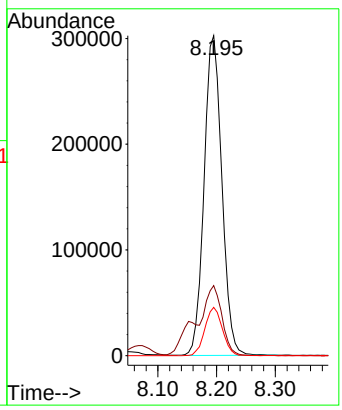


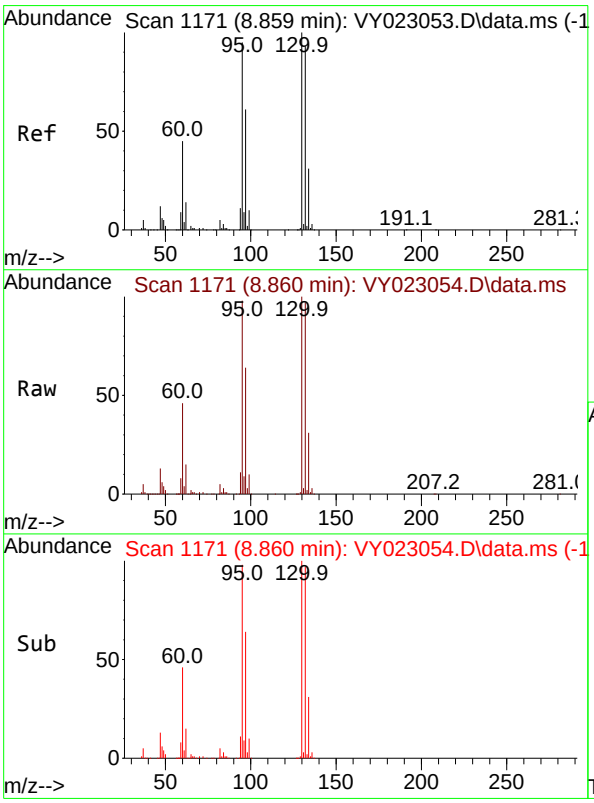
#43
Isopropyl Acetate
Concen: 95.780 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

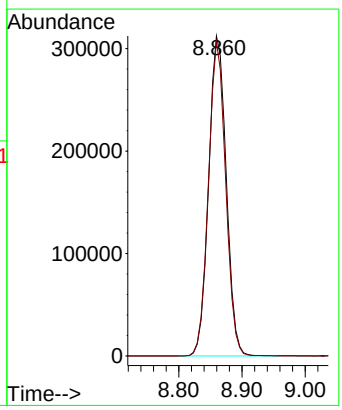


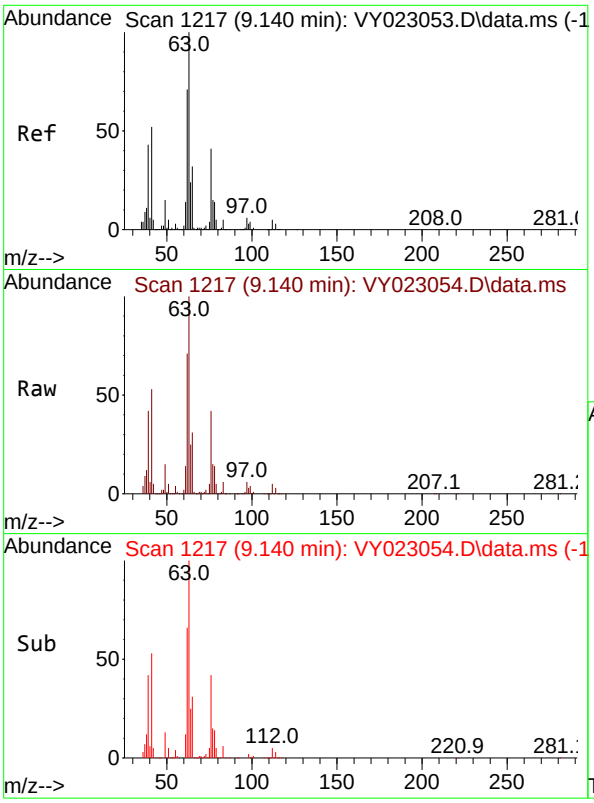


#44
Trichloroethene
Concen: 96.584 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:130 Resp: 602322

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	190.2



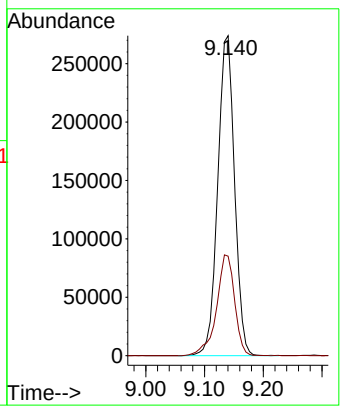


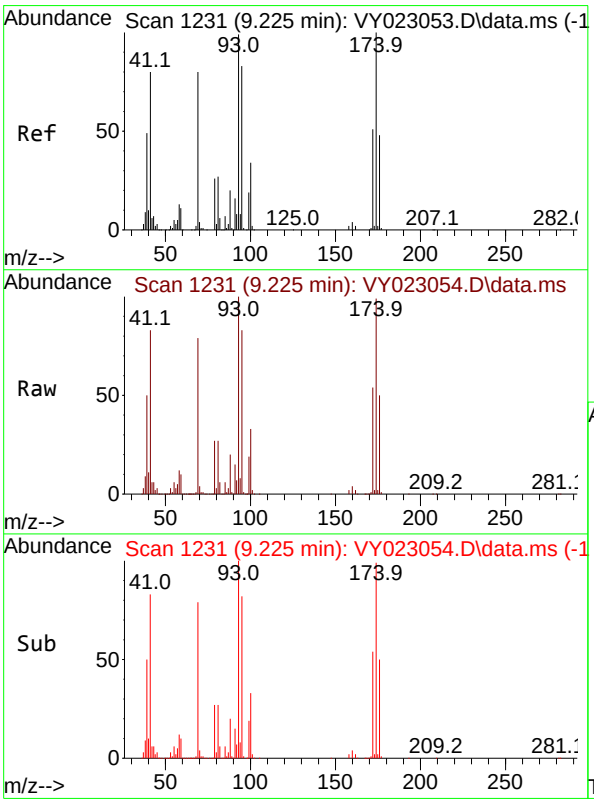
#45
1,2-Dichloropropane
Concen: 97.899 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 543589

Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.3	37.9

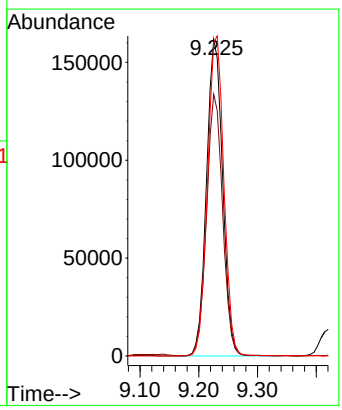


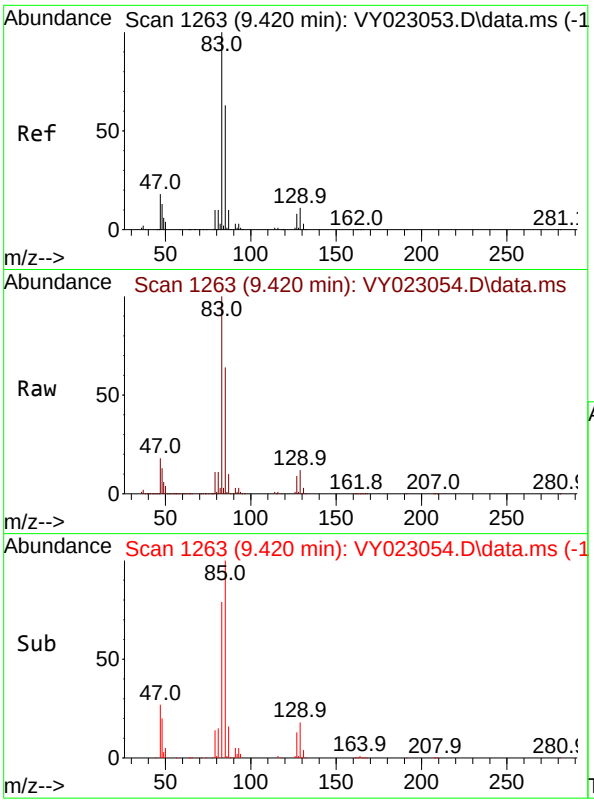


#46
Dibromomethane
Concen: 97.052 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



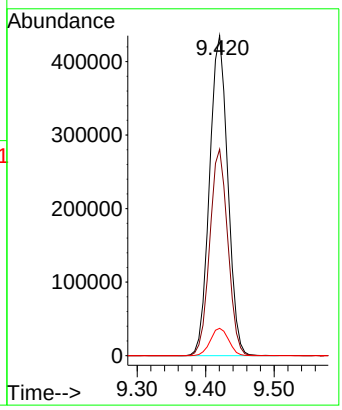


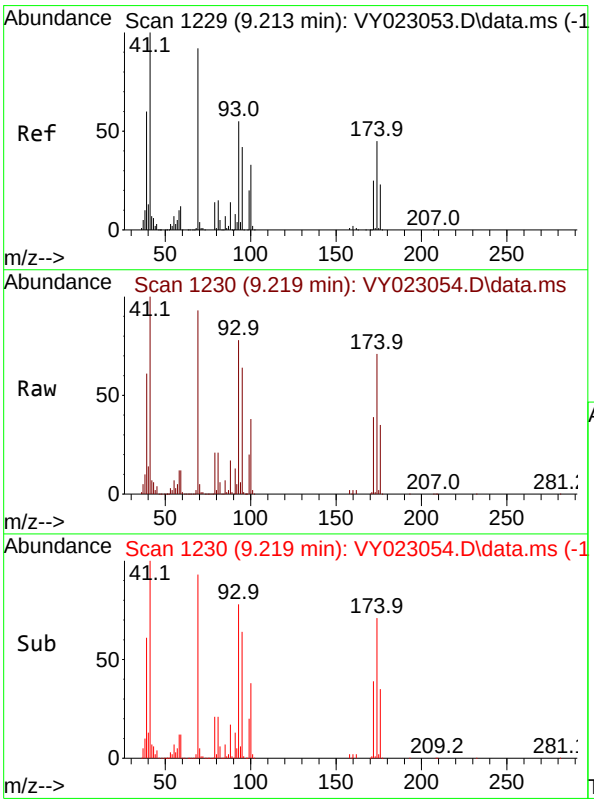
#47
Bromodichloromethane
Concen: 97.864 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

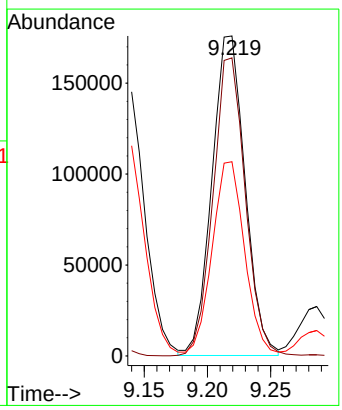


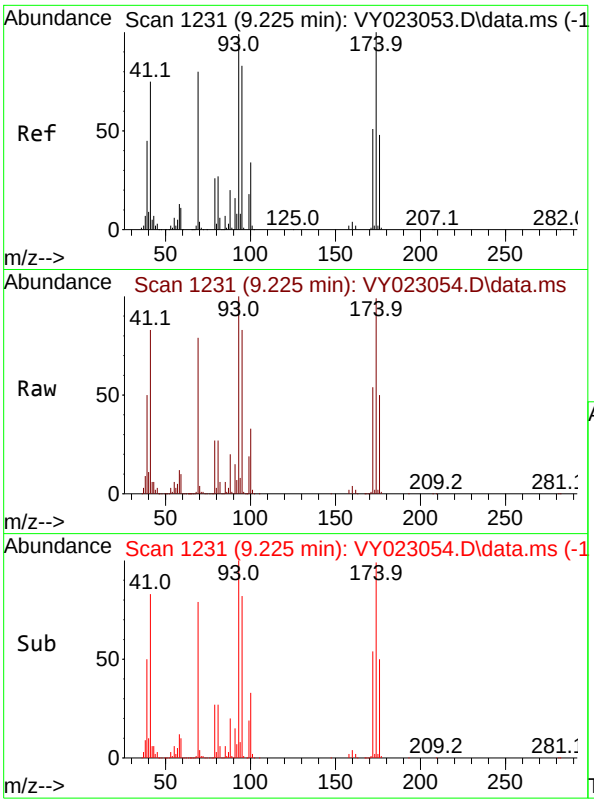


#48
Methyl methacrylate
Concen: 100.567 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



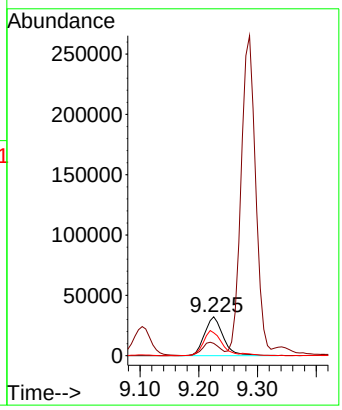


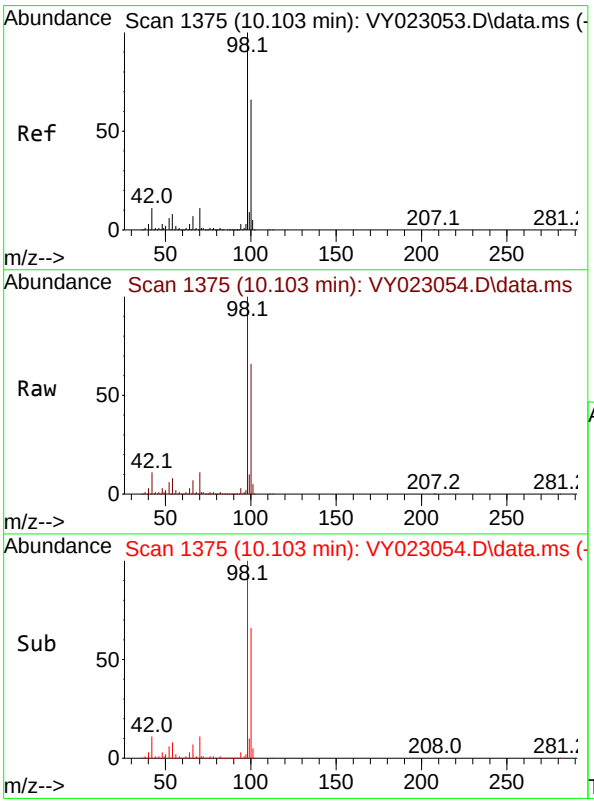
#49
1,4-Dioxane
Concen: 1908.039 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

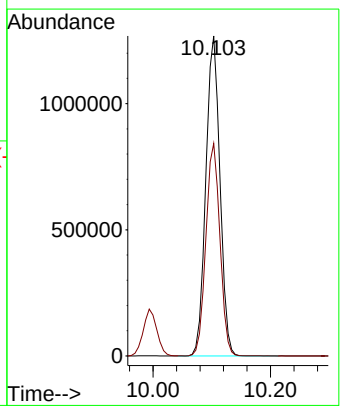


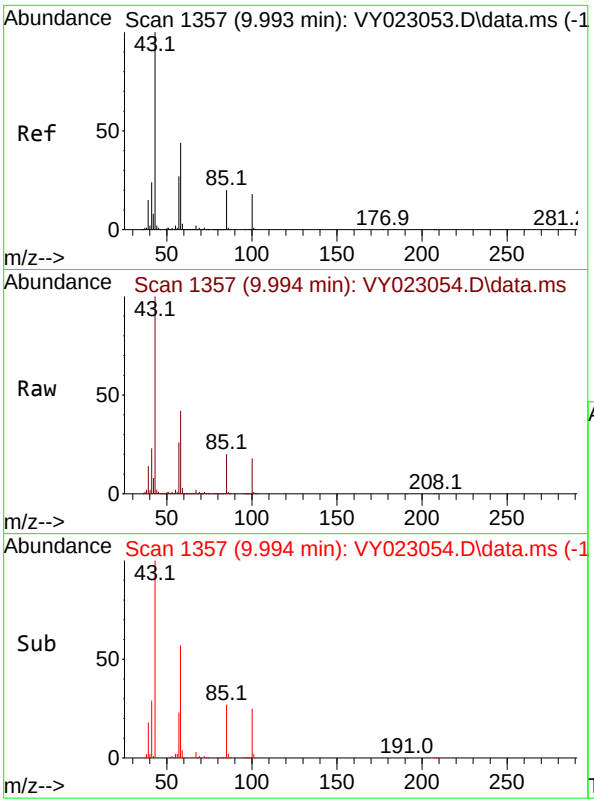


#50
Toluene-d8
Concen: 102.832 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 98 Resp: 2116445

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.3	78.5



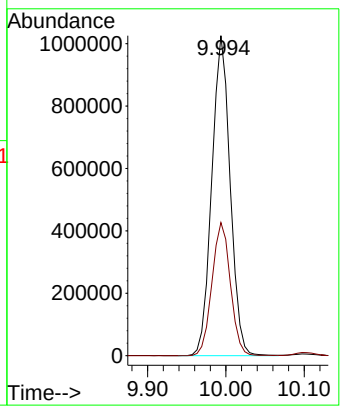


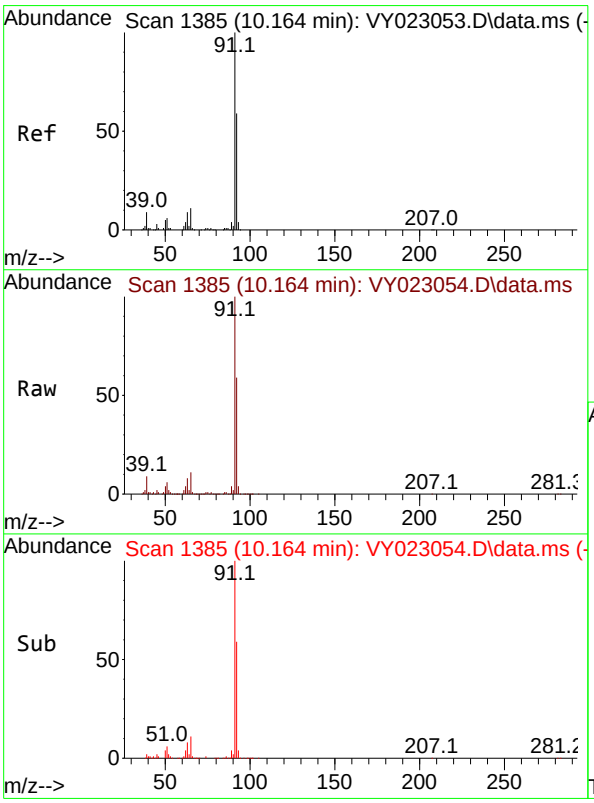
#51
4-Methyl-2-Pentanone
Concen: 486.924 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1669668

Ion	Ratio	Lower	Upper
43	100		
58	41.8	33.5	50.3

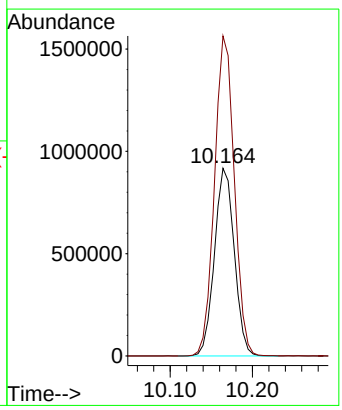


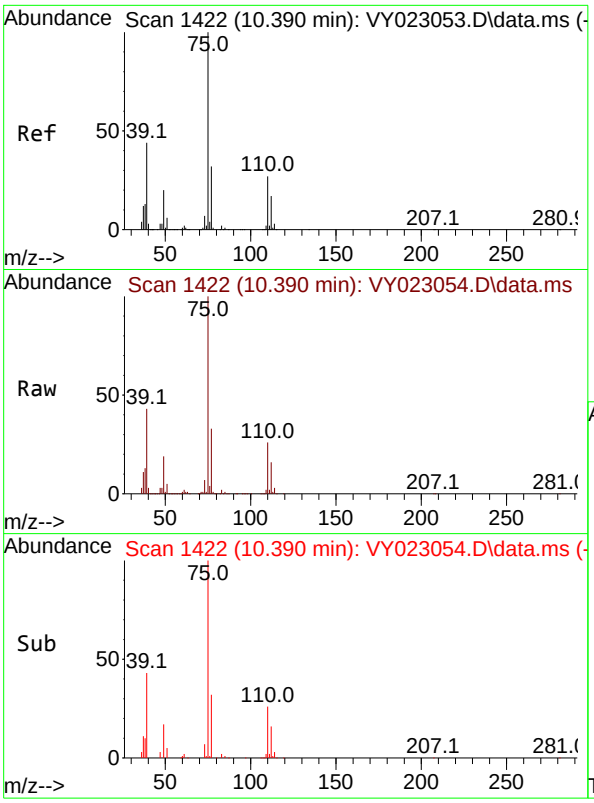


#52
Toluene
Concen: 100.288 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 92 Resp: 1537088

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6



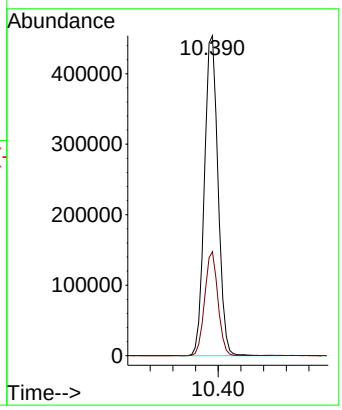


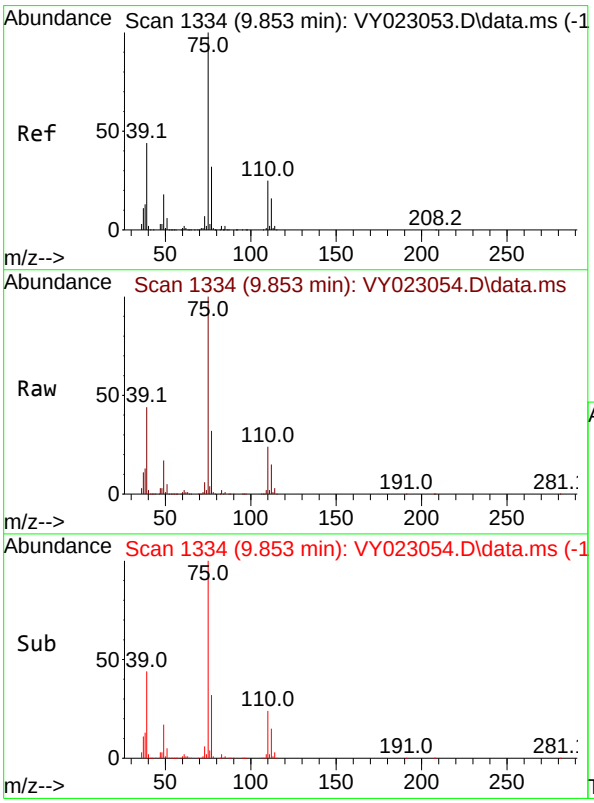
#53
t-1,3-Dichloropropene
Concen: 101.574 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 754278

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.7	38.5

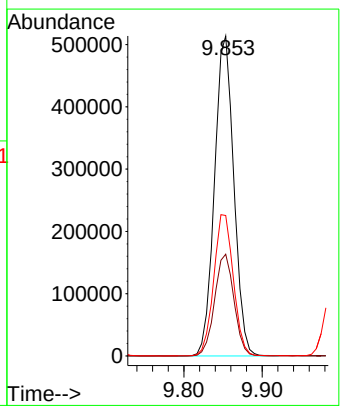


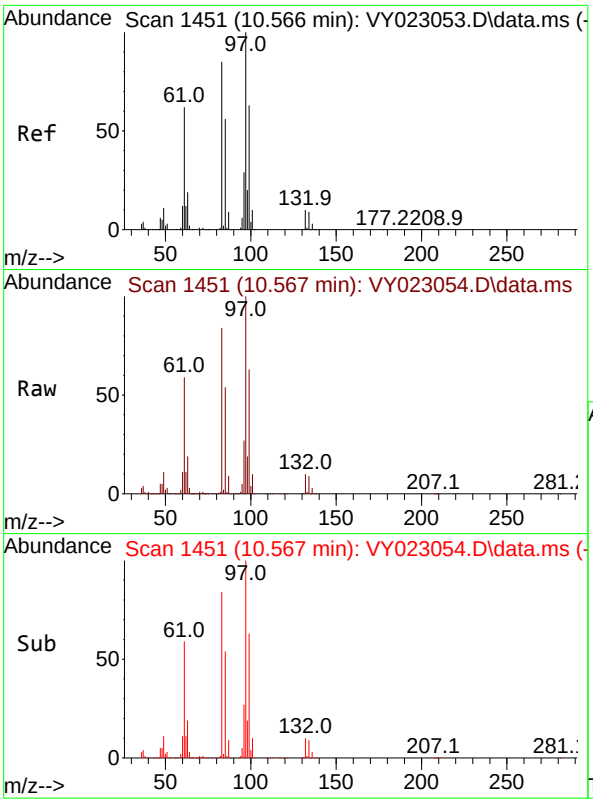


#54
cis-1,3-Dichloropropene
Concen: 100.281 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



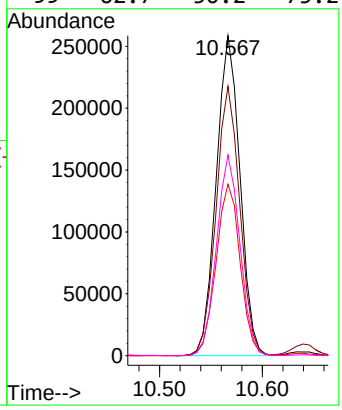


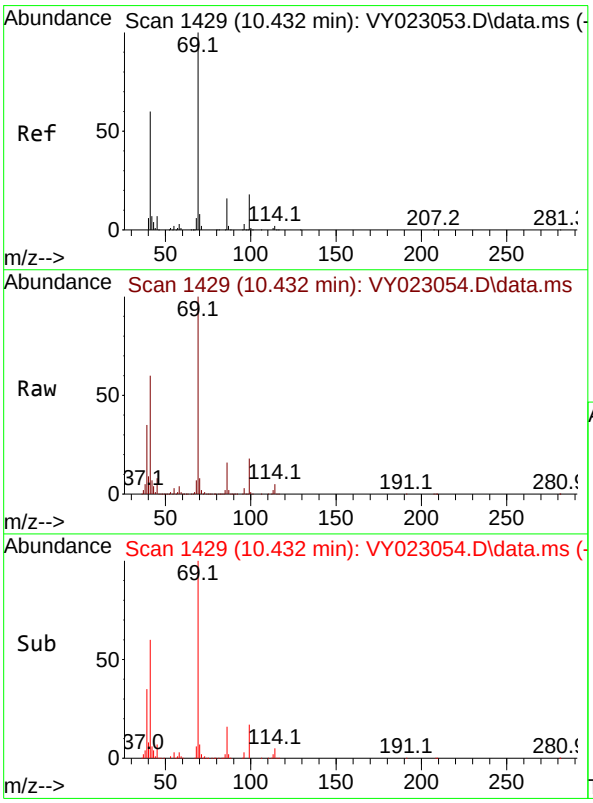
#55
1,1,2-Trichloroethane
Concen: 97.446 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

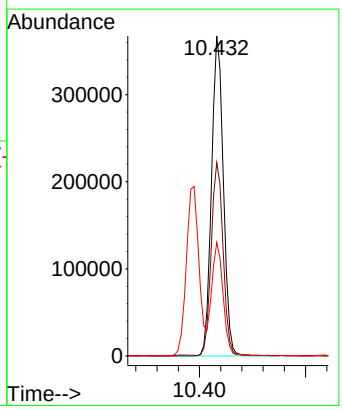


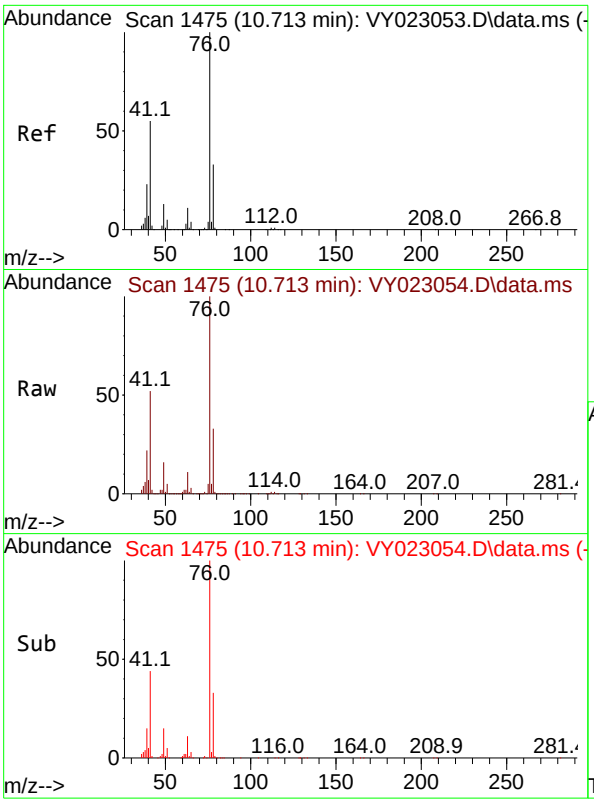


#56
Ethyl methacrylate
Concen: 104.375 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



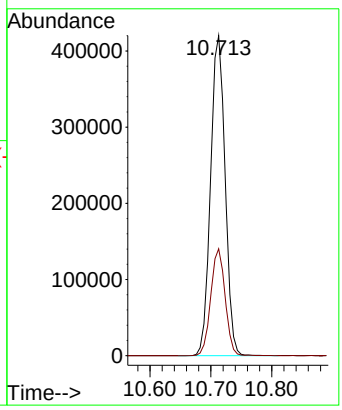


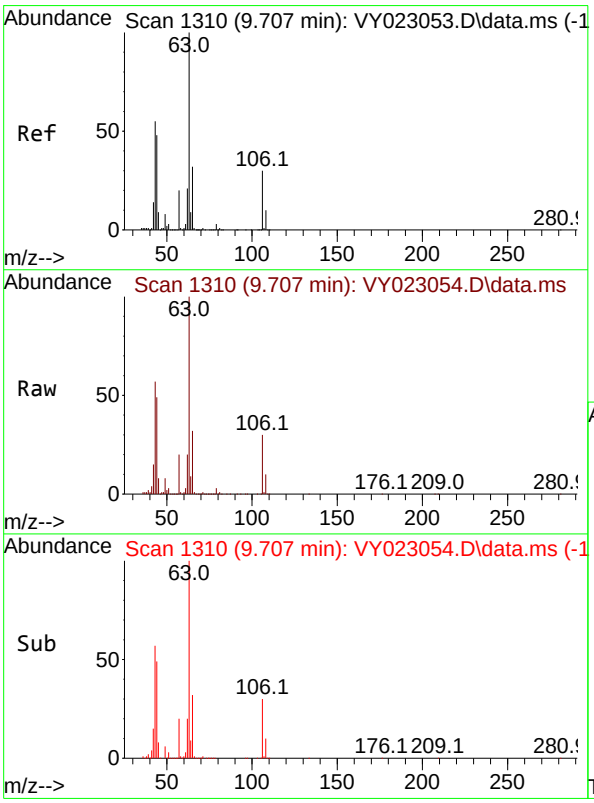
#57
1,3-Dichloropropane
Concen: 96.253 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 696130

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0

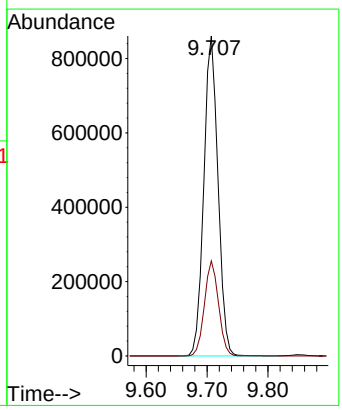


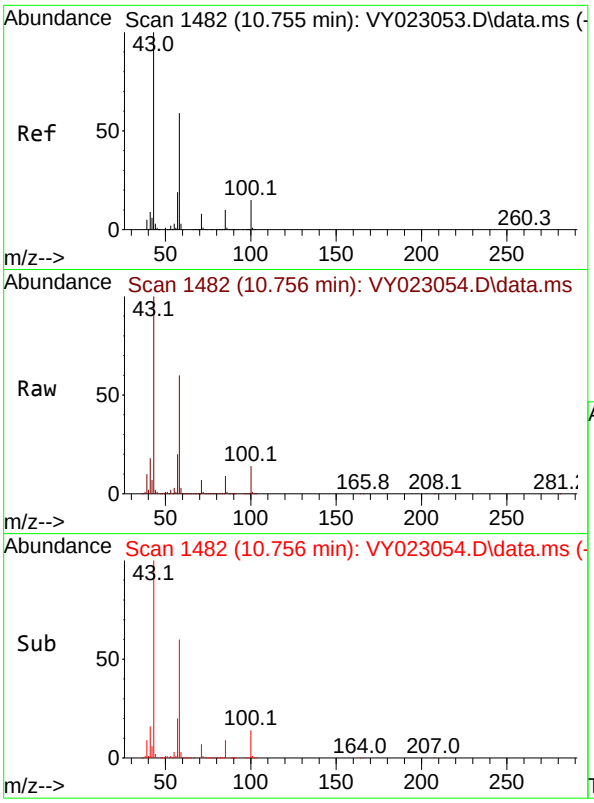


#58
2-Chloroethyl Vinyl ether
Concen: 539.957 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1389847

Ion	Ratio	Lower	Upper
63	100		
106	29.5	23.2	34.8



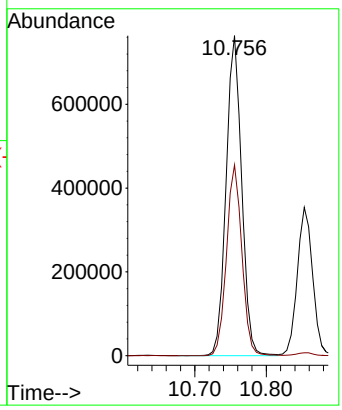


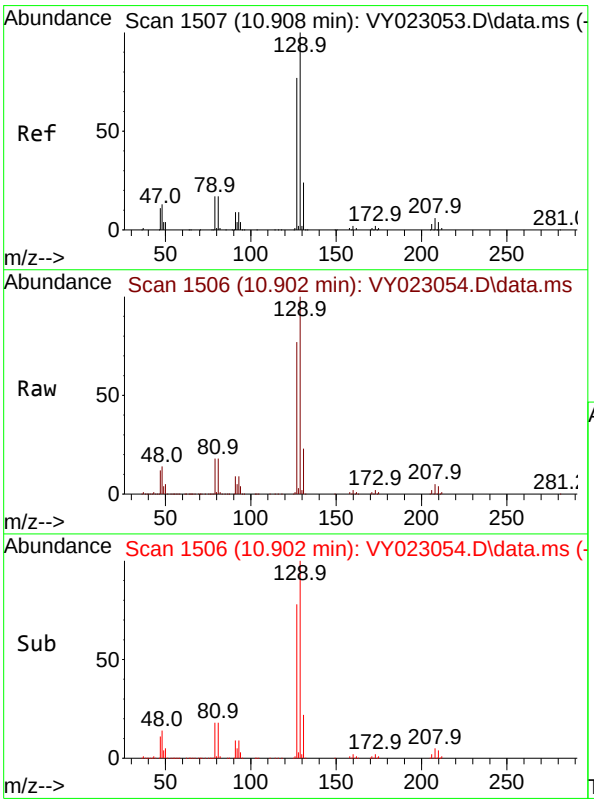
#59
2-Hexanone
Concen: 492.950 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1151000

Ion	Ratio	Lower	Upper
43	100		
58	58.9	29.5	88.5

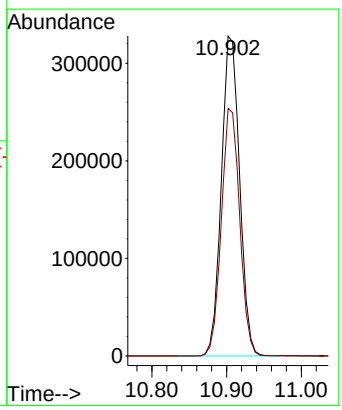


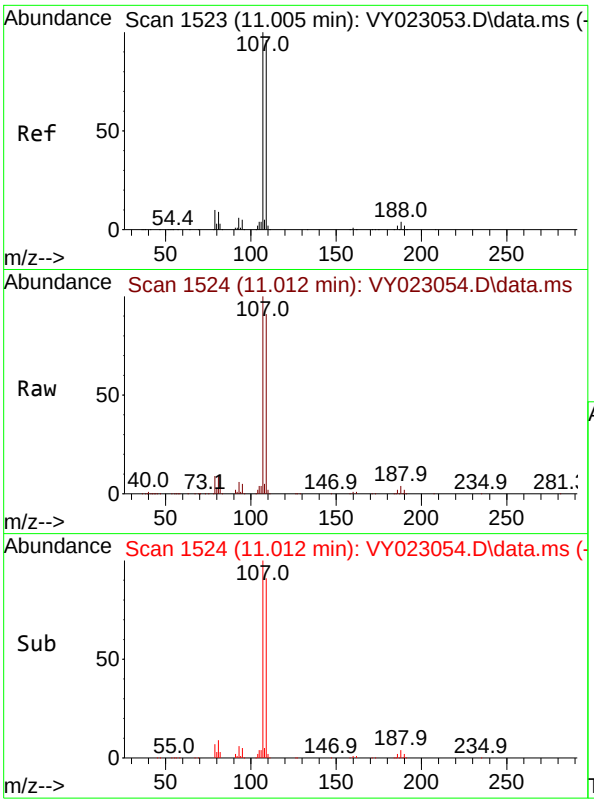


#60
Dibromochloromethane
Concen: 99.024 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:129 Resp: 557205

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5



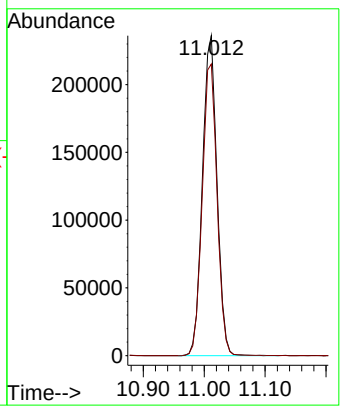


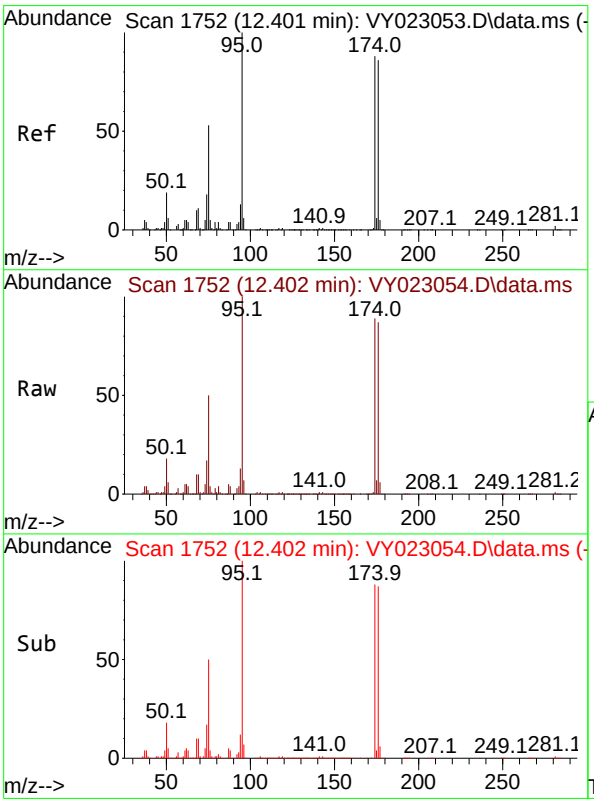
#61
1,2-Dibromoethane
Concen: 97.713 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 391650

Ion	Ratio	Lower	Upper
107	100		
109	92.9	75.6	113.4

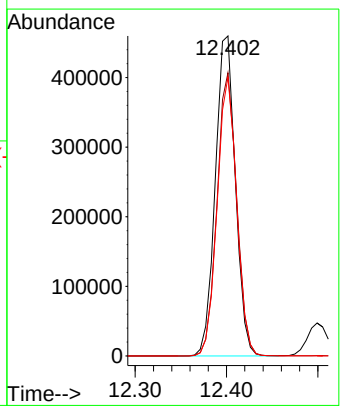


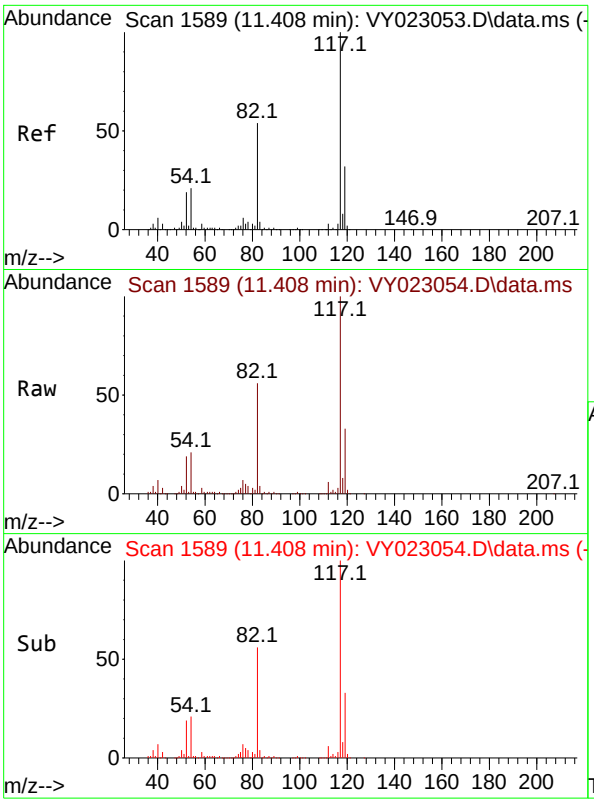


#62
4-Bromofluorobenzene
Concen: 106.147 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



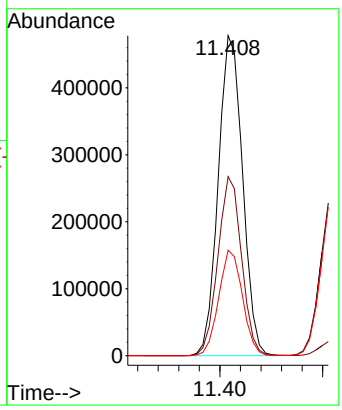


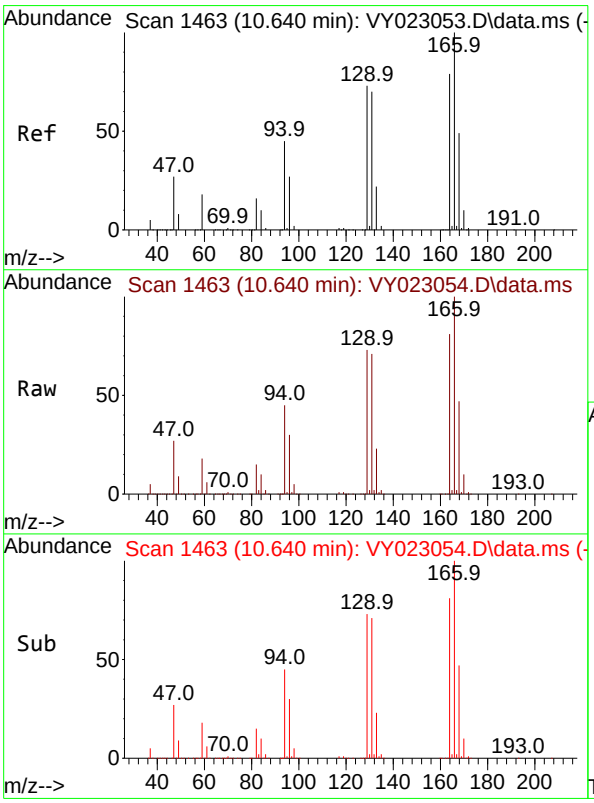
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

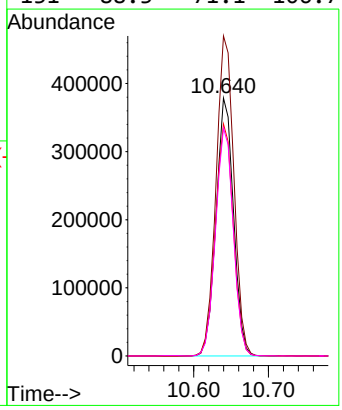


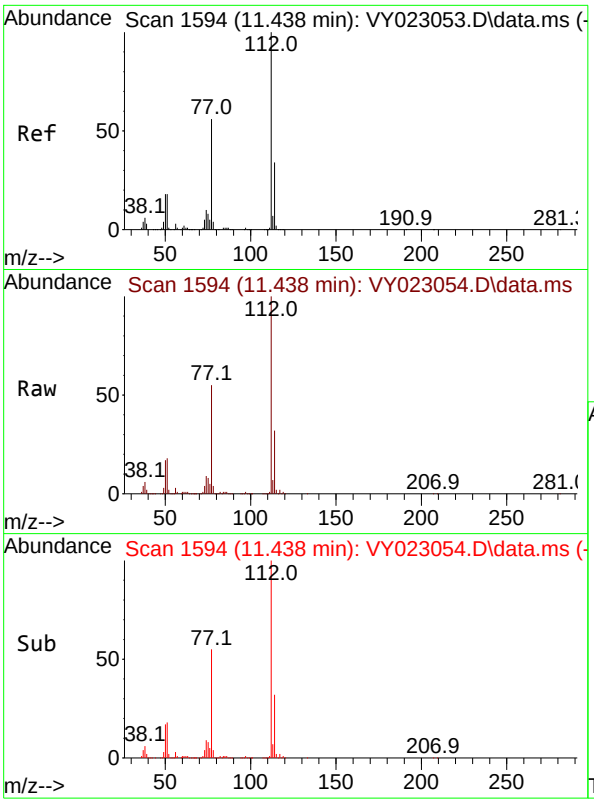


#64
Tetrachloroethene
Concen: 87.931 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



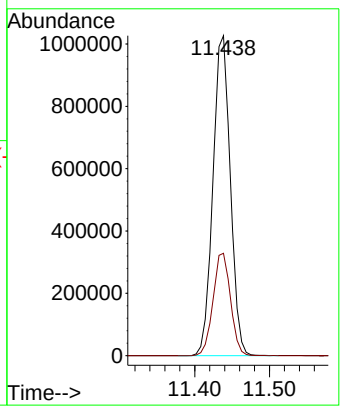


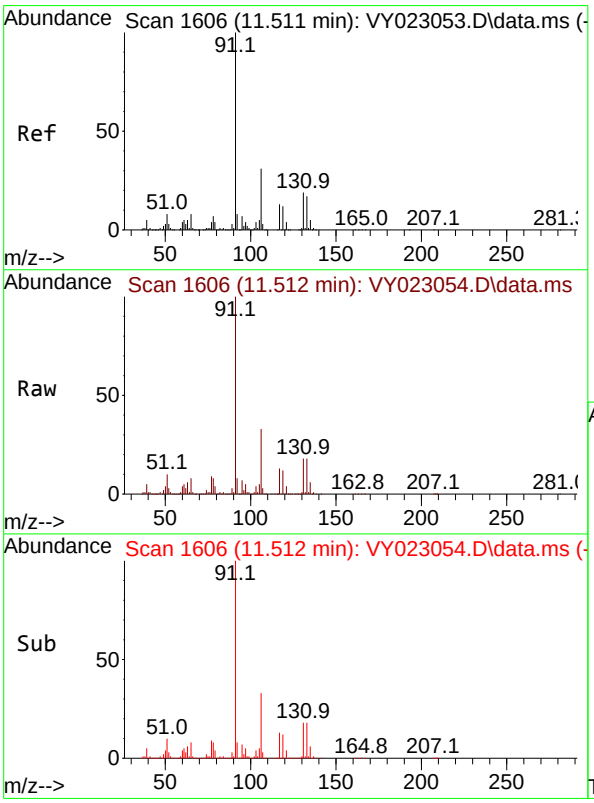
#65
Chlorobenzene
Concen: 98.004 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 1658154

Ion	Ratio	Lower	Upper
112	100		
114	32.0	27.0	40.4

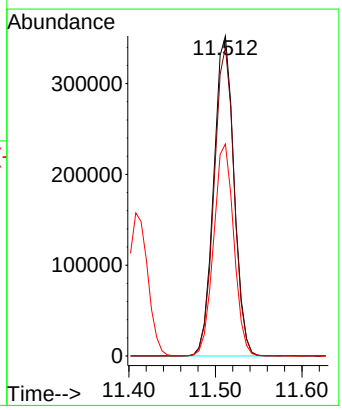


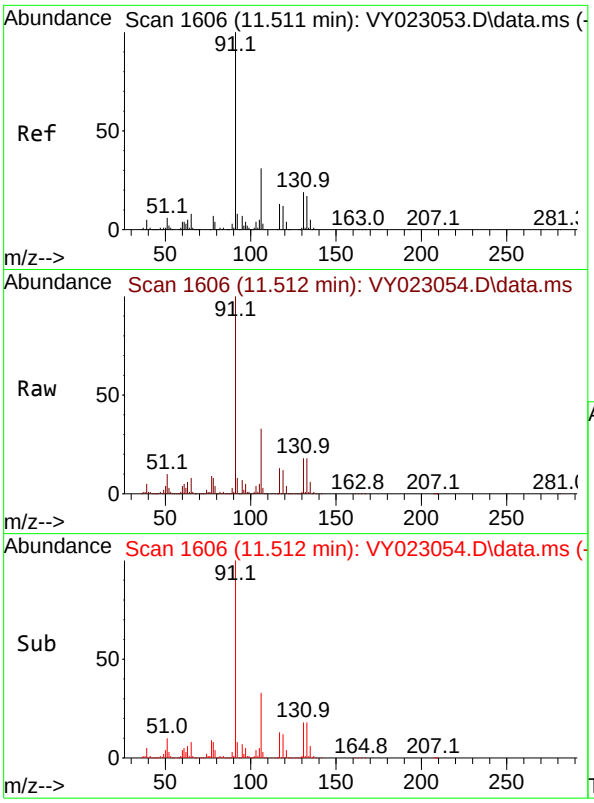


#66
1,1,1,2-Tetrachloroethane
Concen: 99.810 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



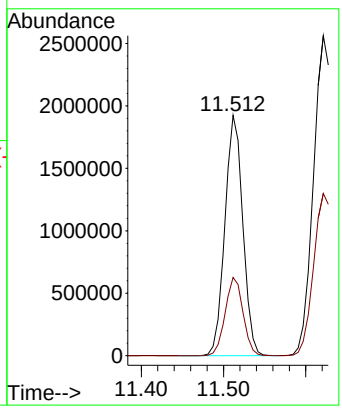


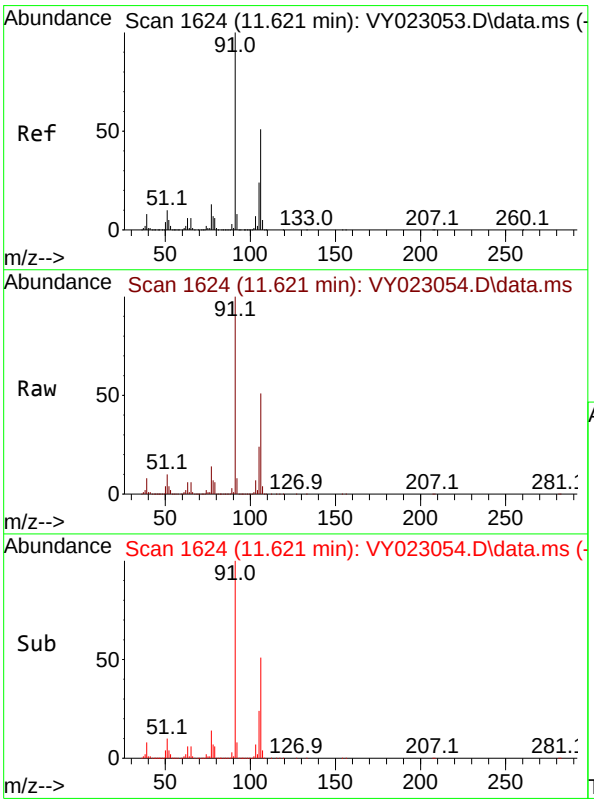
#67
Ethyl Benzene
Concen: 100.082 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 2914020

Ion	Ratio	Lower	Upper
91	100		
106	32.5	25.0	37.4

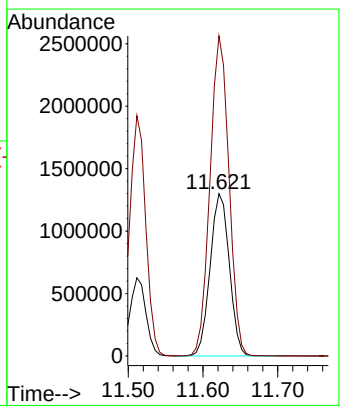


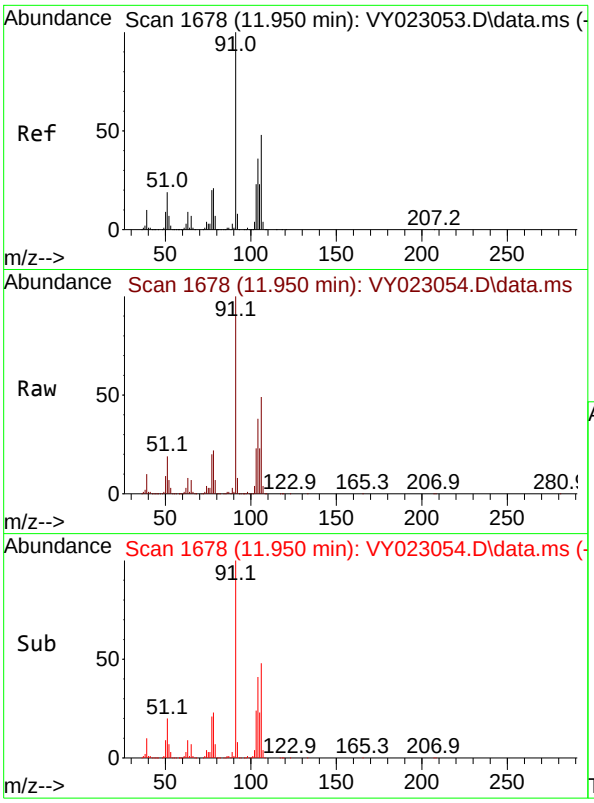


#68
m/p-Xylenes
Concen: 203.363 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:106 Resp: 2312597

Ion	Ratio	Lower	Upper
106	100		
91	195.1	158.6	238.0



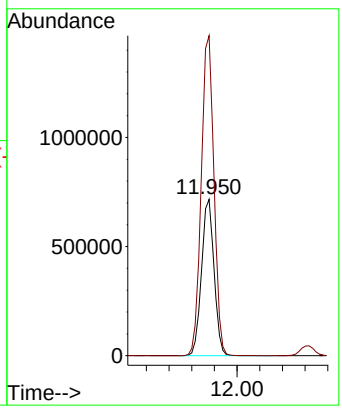


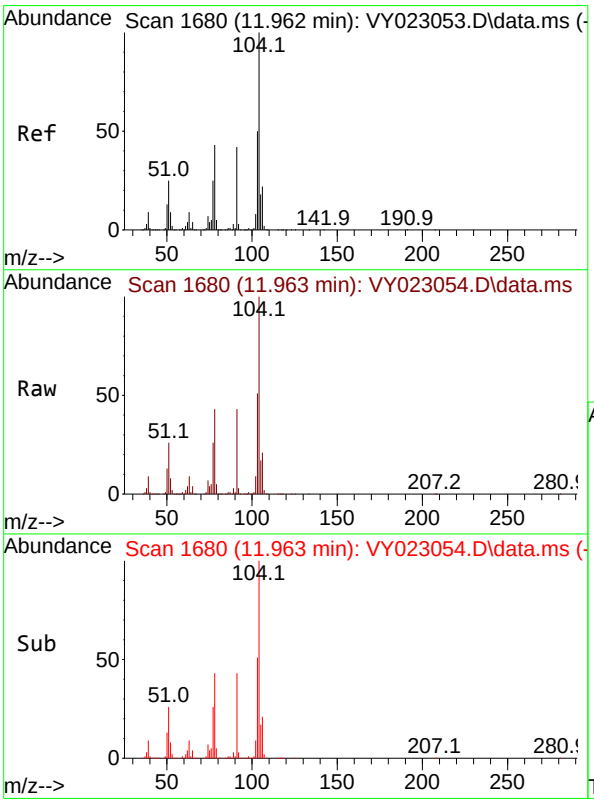
#69
o-Xylene
Concen: 103.373 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 1100998

Ion	Ratio	Lower	Upper
106	100		
91	207.5	103.2	309.4

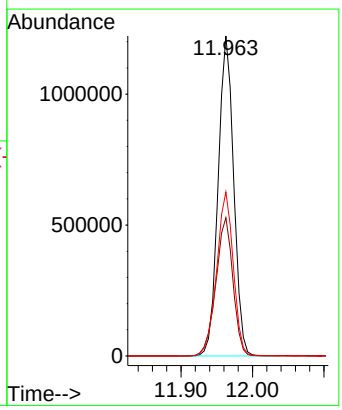


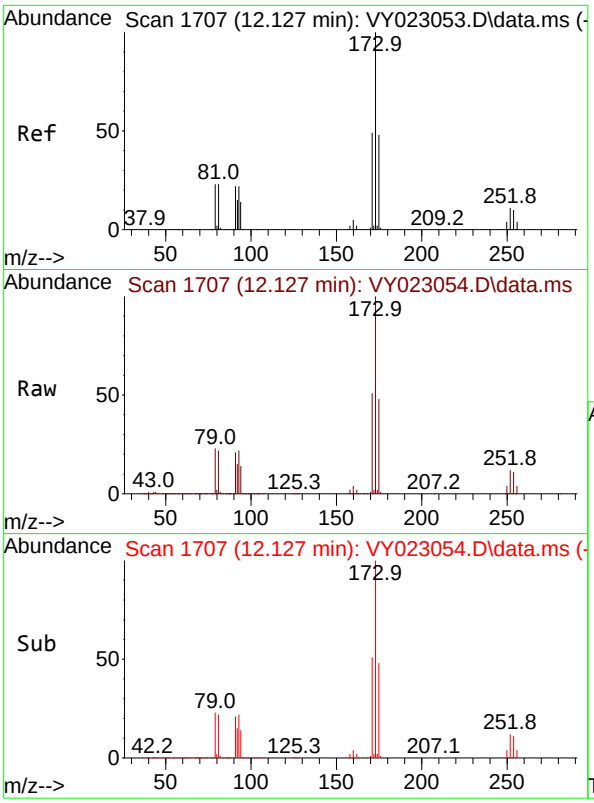


#70
Styrene
Concen: 105.953 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



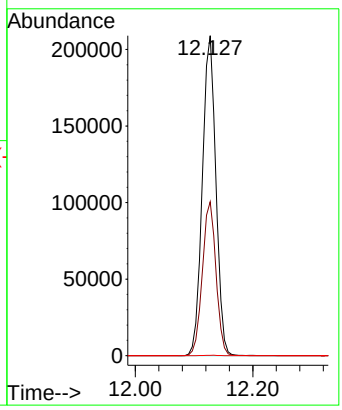


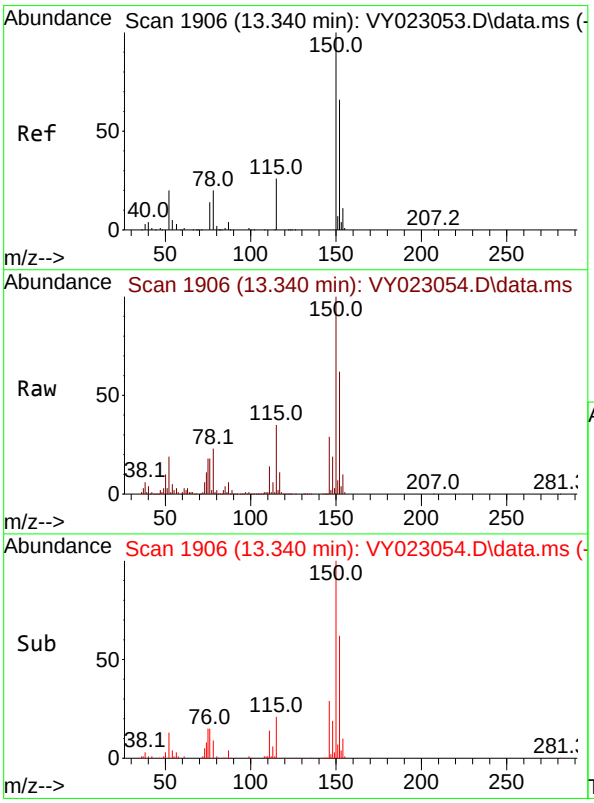
#71
Bromoform
Concen: 99.786 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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#

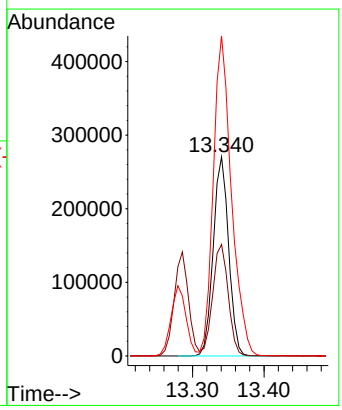


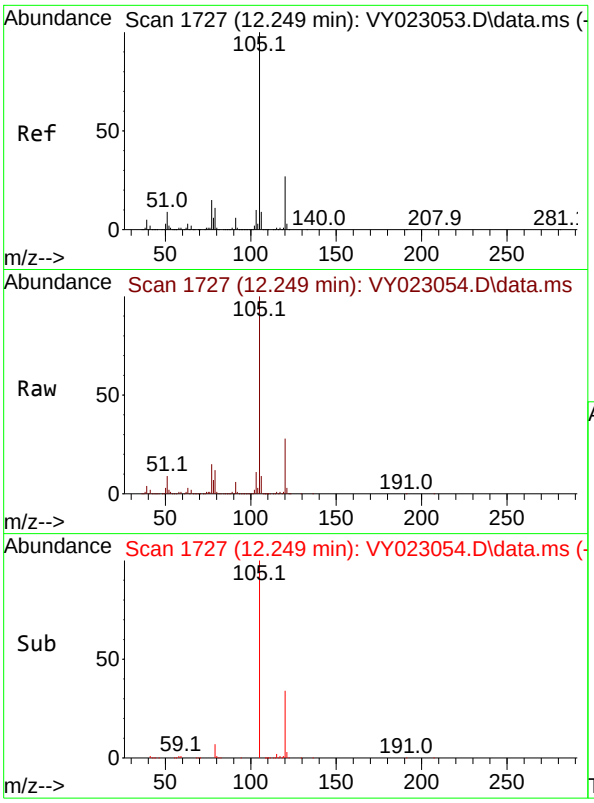


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



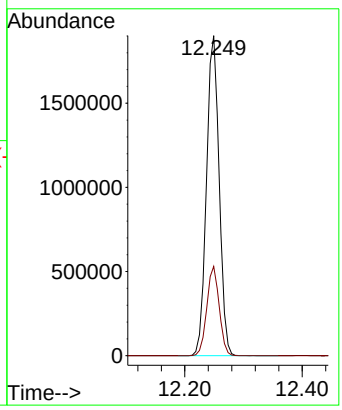


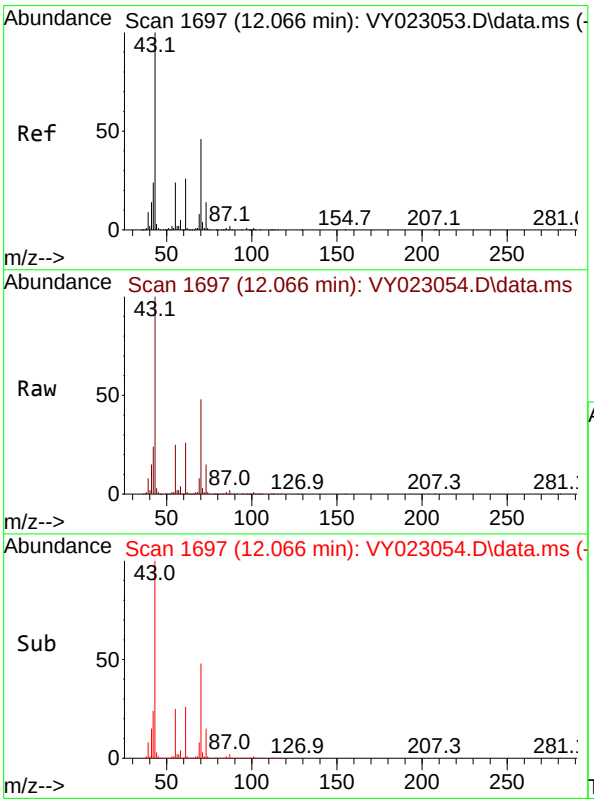
#73
Isopropylbenzene
Concen: 99.567 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 2839999

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.2

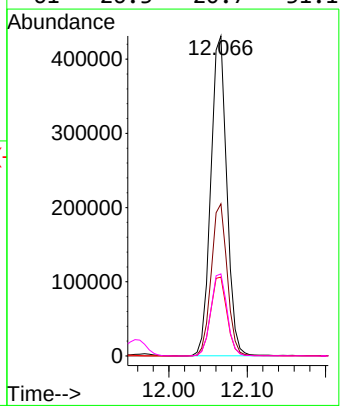


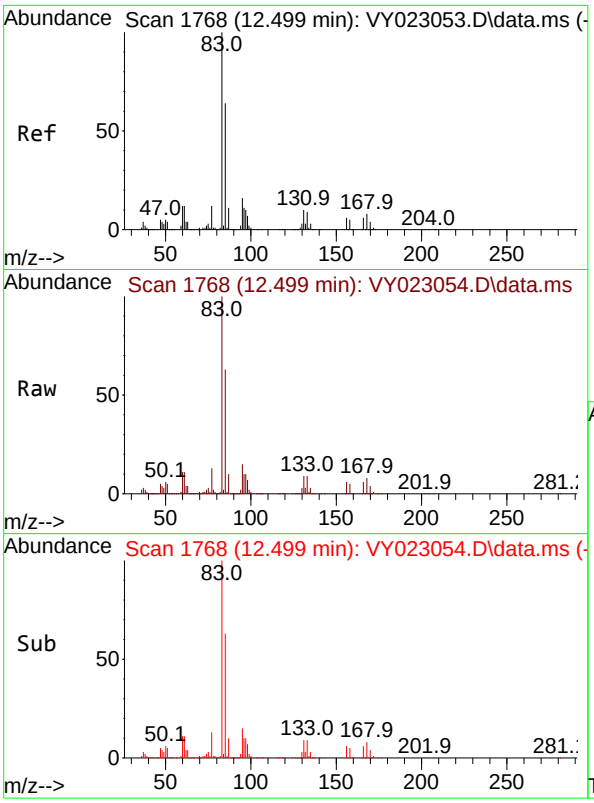


#74
N-amyl acetate
Concen: 100.955 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



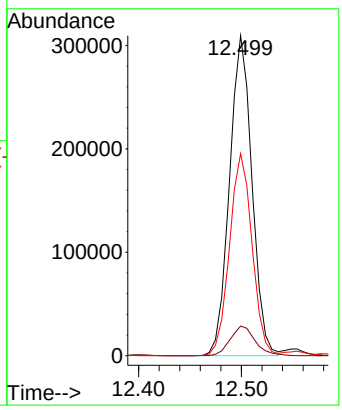


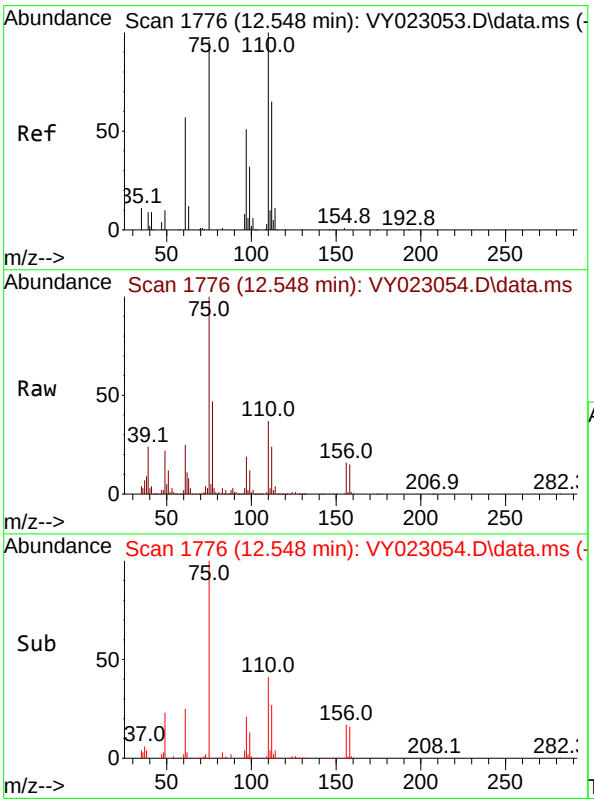
#75
1,1,2,2-Tetrachloroethane
Concen: 96.464 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

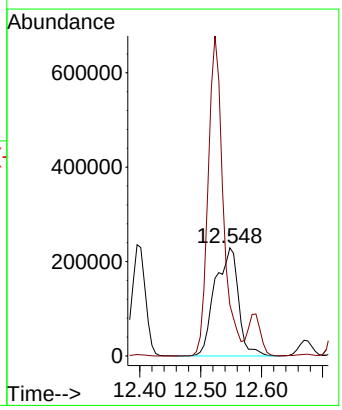


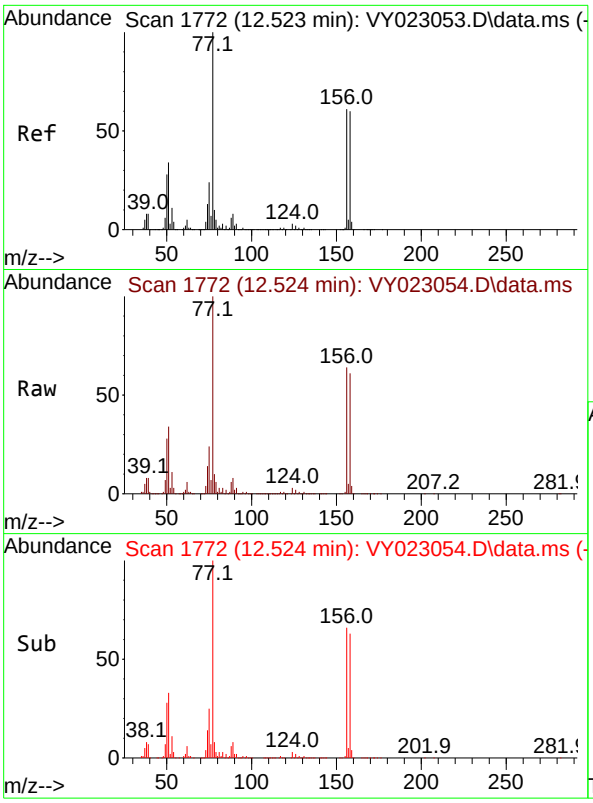


#76
1,2,3-Trichloropropane
Concen: 156.388 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 610364

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



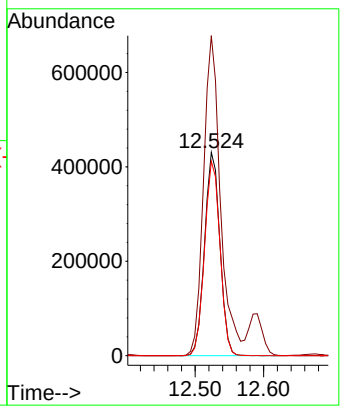


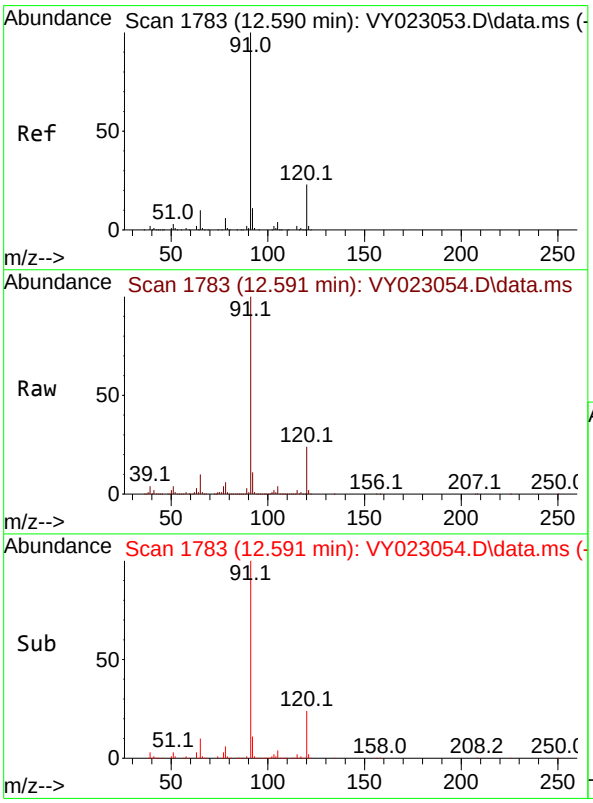
#77
Bromobenzene
Concen: 98.655 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

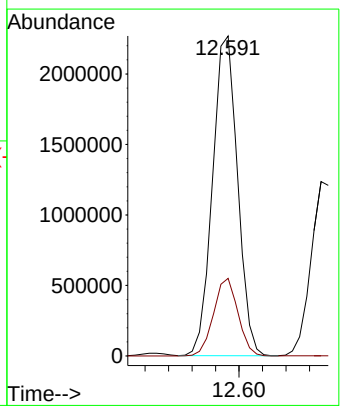


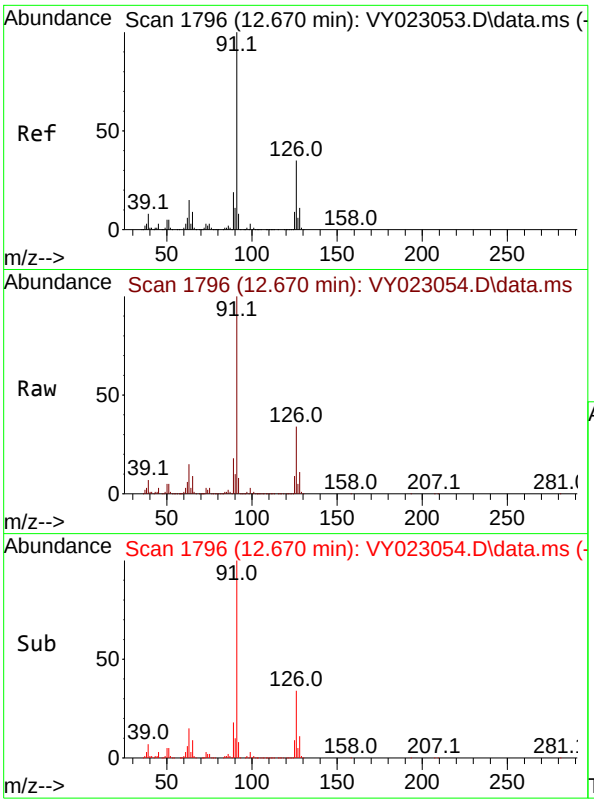


#78
n-propylbenzene
Concen: 98.963 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 3360679

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.5



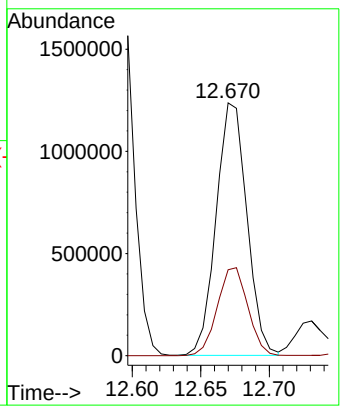


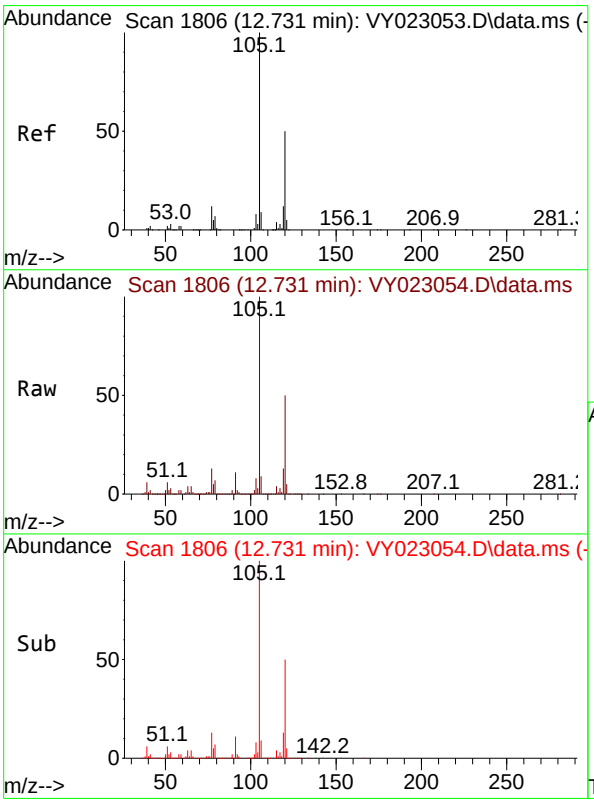
#79
2-Chlorotoluene
Concen: 99.268 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1931460

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

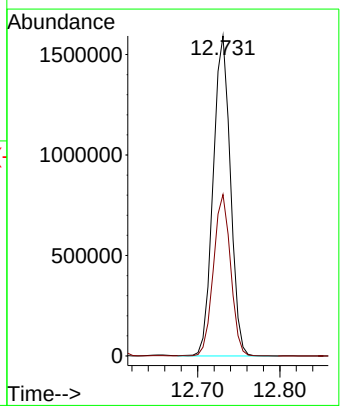


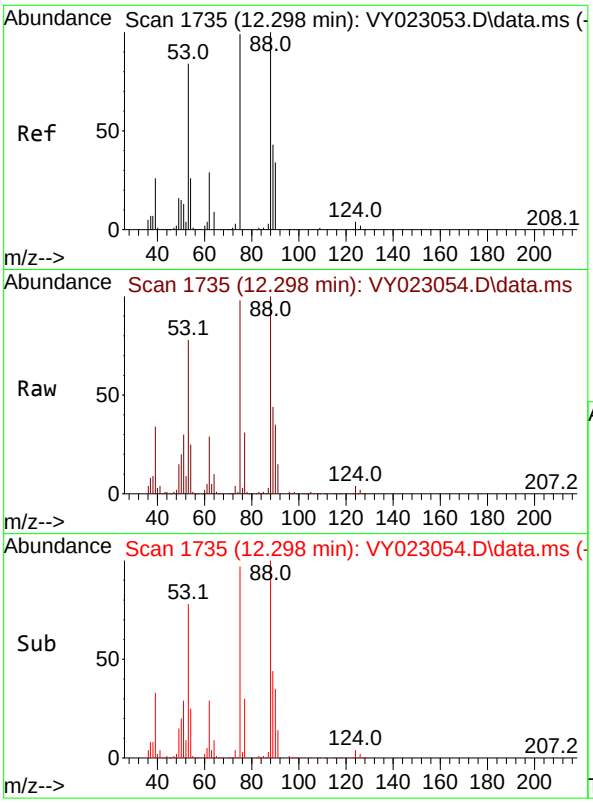


#80
1,3,5-Trimethylbenzene
Concen: 100.707 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2321527

Ion	Ratio	Lower	Upper
105	100		
120	50.2	24.8	74.4



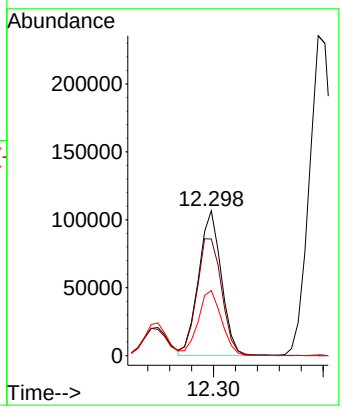


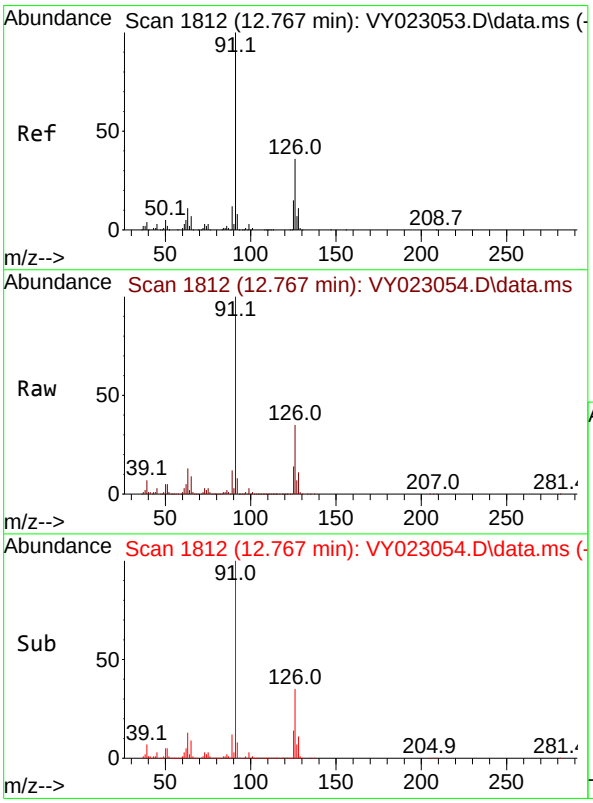
#81
trans-1,4-Dichloro-2-butene
Concen: 95.118 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

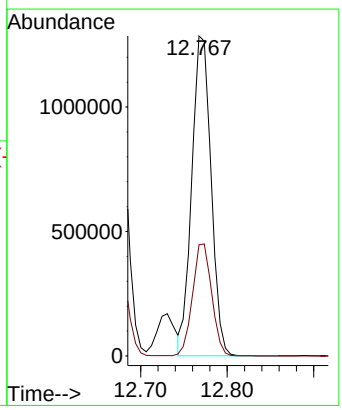


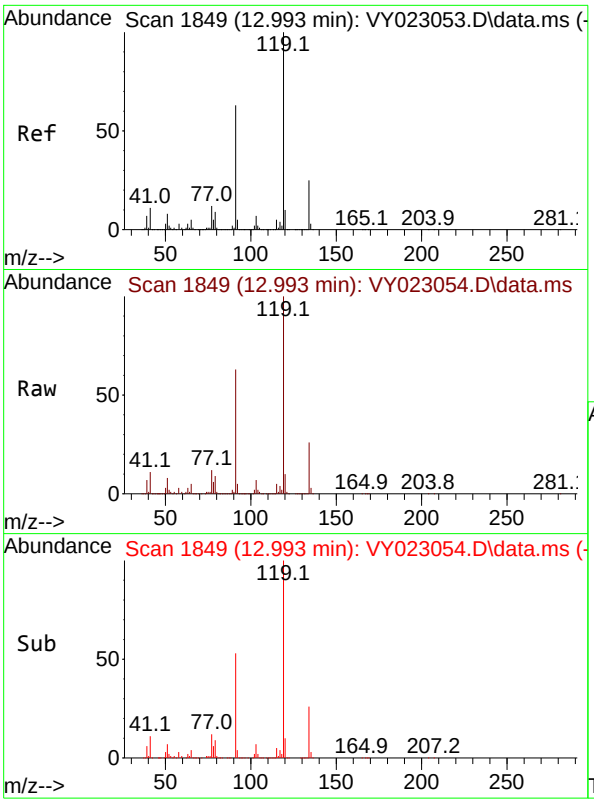


#82
4-Chlorotoluene
Concen: 98.519 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 1988544

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	52.0



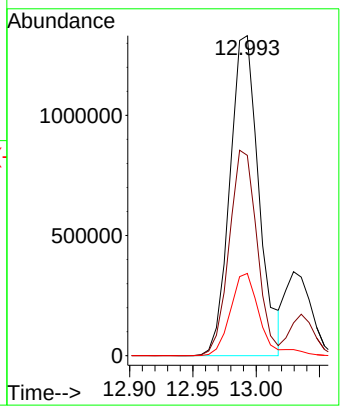


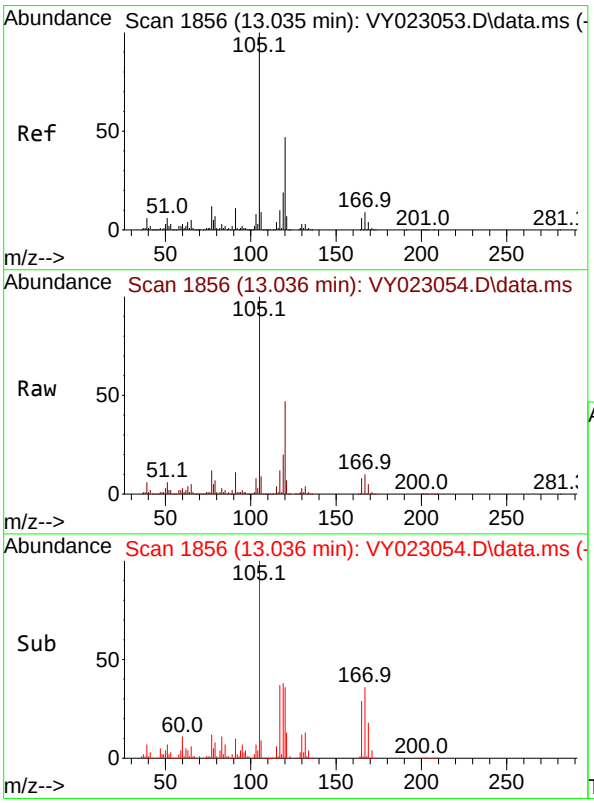
#83
tert-Butylbenzene
Concen: 102.102 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

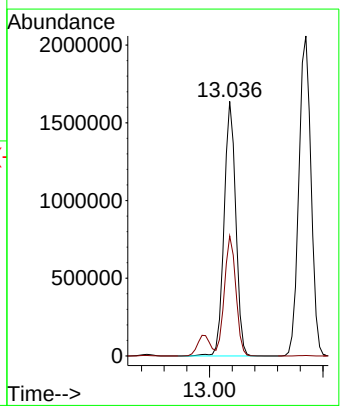


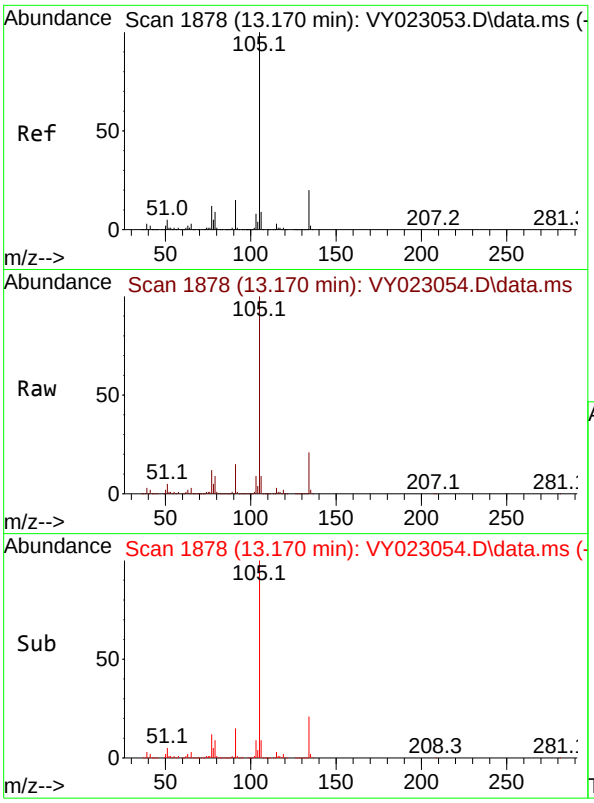


#84
1,2,4-Trimethylbenzene
Concen: 101.946 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2339432

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



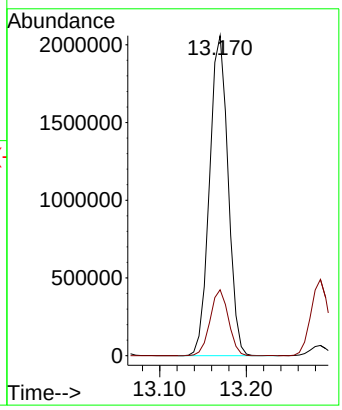


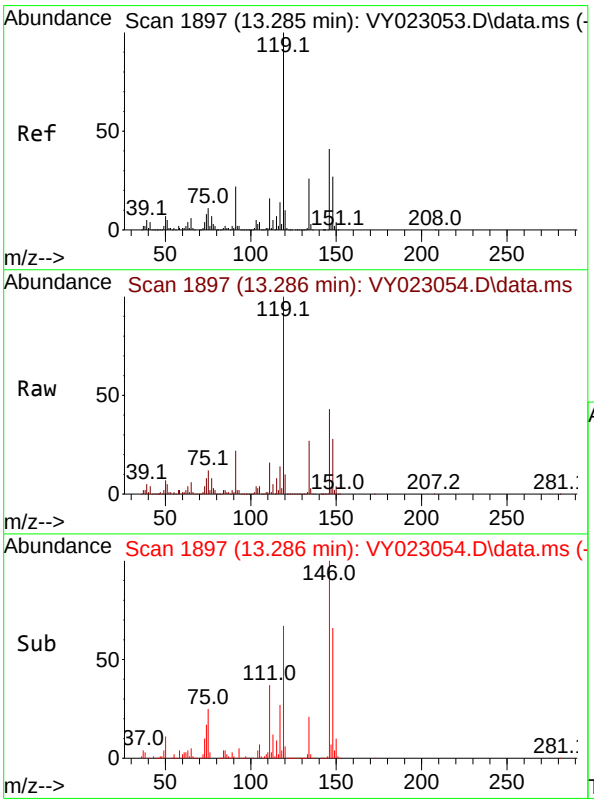
#85
sec-Butylbenzene
Concen: 99.932 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 3056373

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

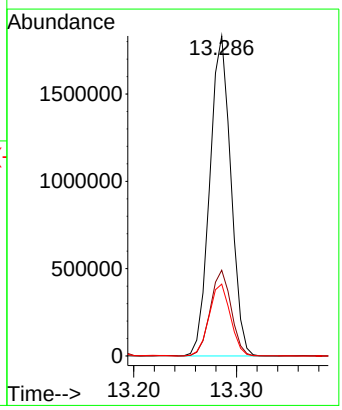


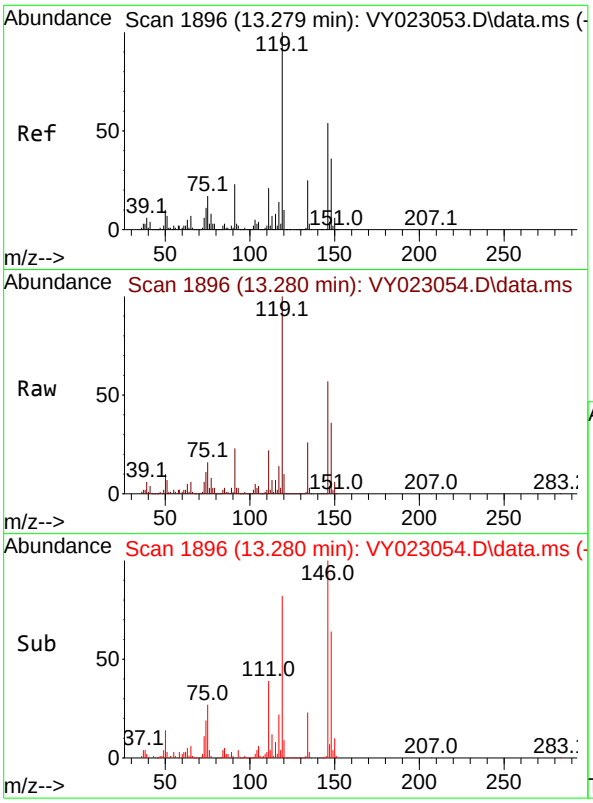


#86
p-Isopropyltoluene
Concen: 102.846 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



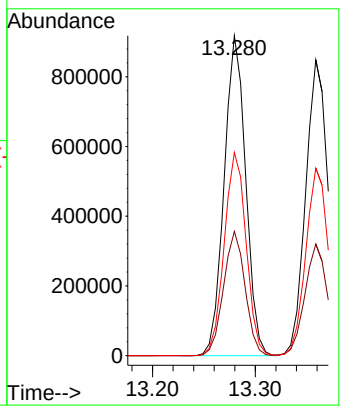


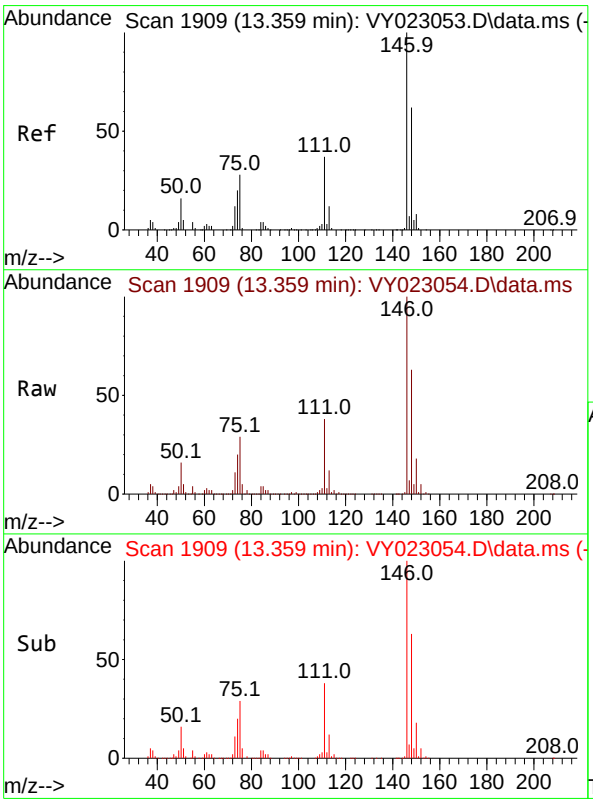
#87
1,3-Dichlorobenzene
Concen: 99.748 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

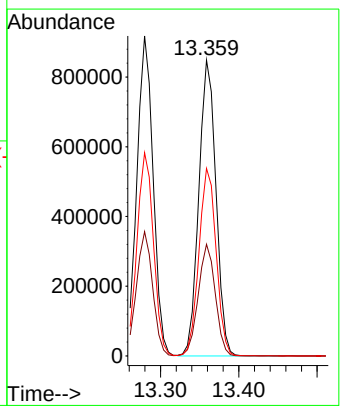


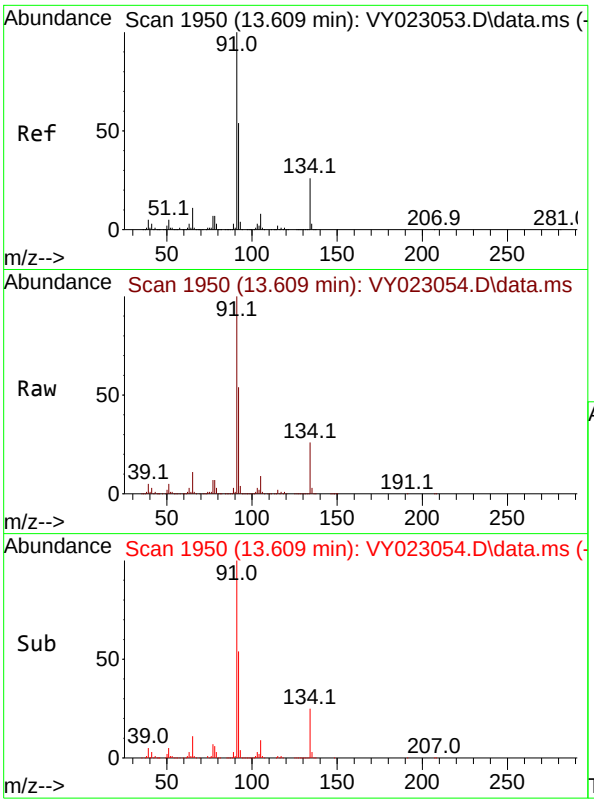


#88
1,4-Dichlorobenzene
Concen: 96.970 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



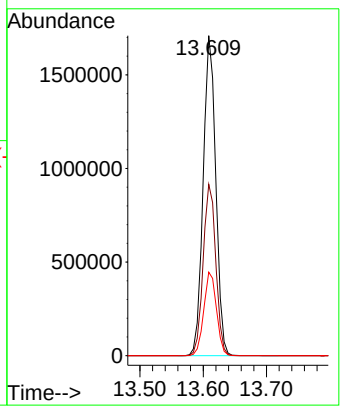


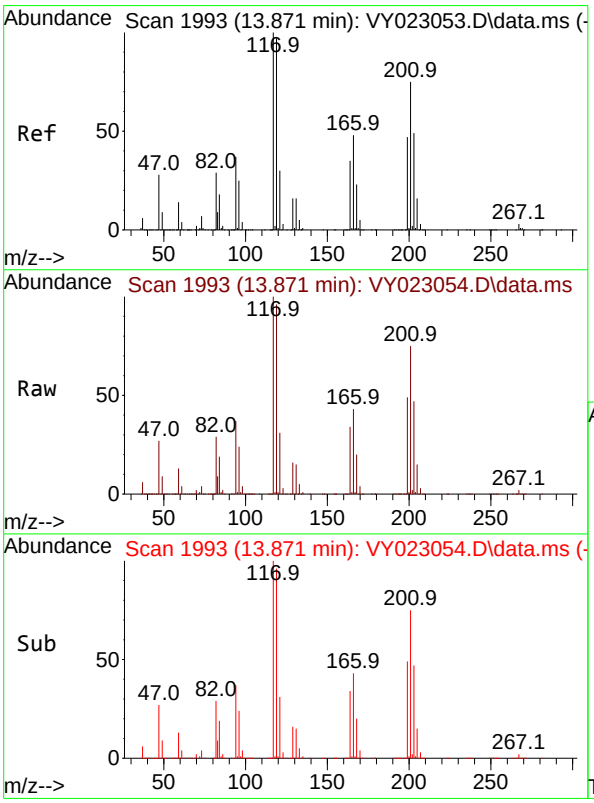
#89
n-Butylbenzene
Concen: 101.675 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

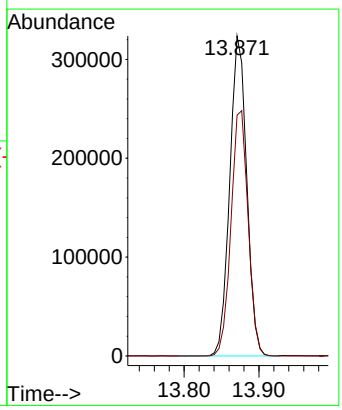


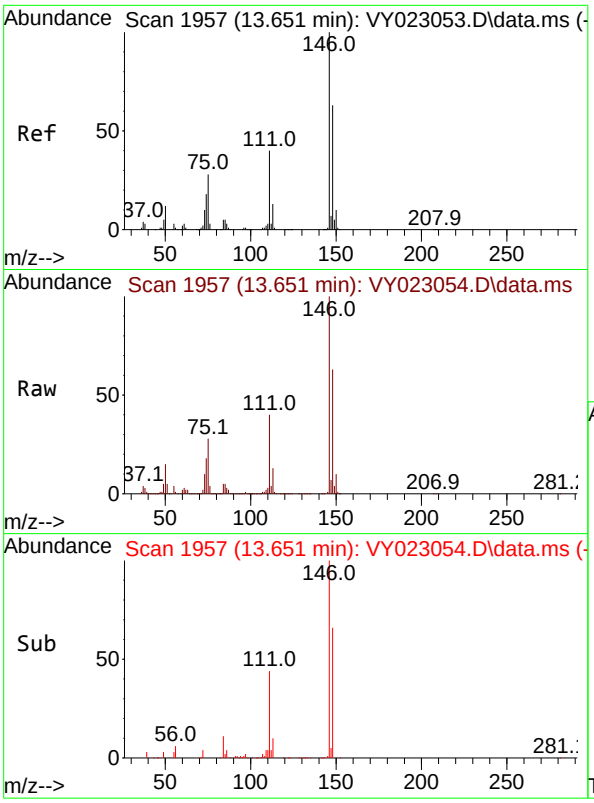


#90
Hexachloroethane
Concen: 98.308 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 510900

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1



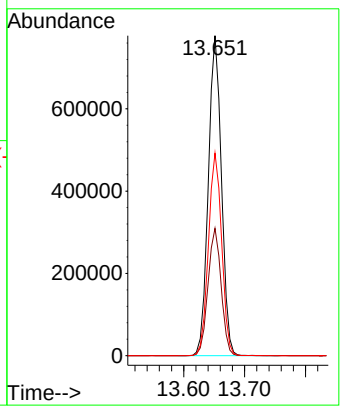


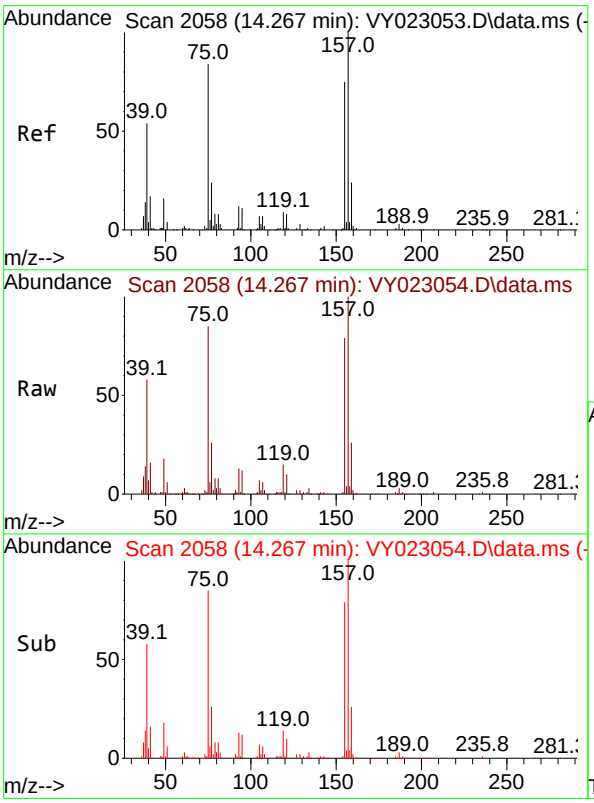
#91
1,2-Dichlorobenzene
Concen: 98.749 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

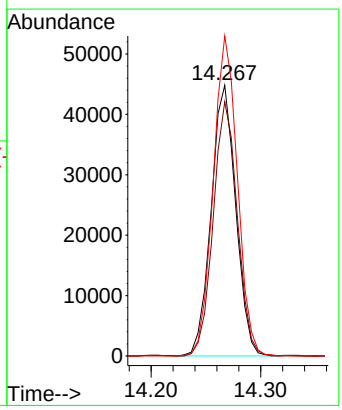


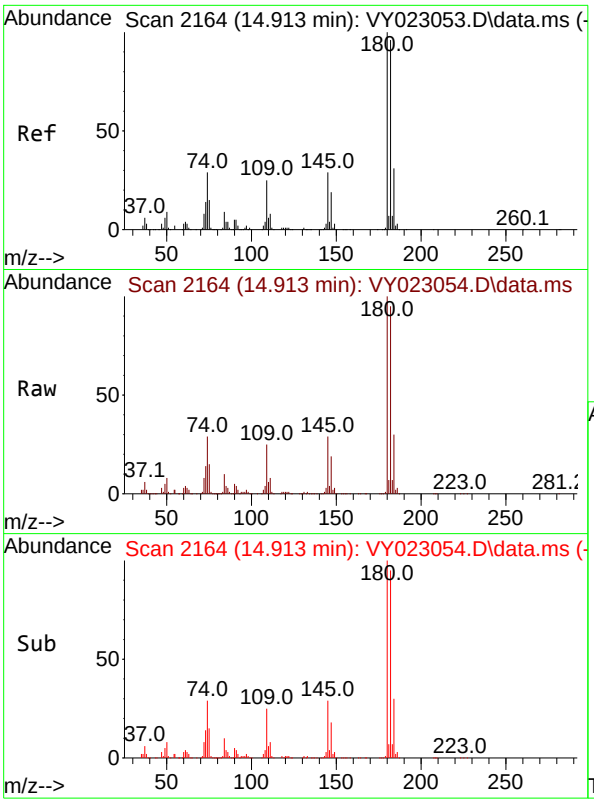


#92
1,2-Dibromo-3-Chloropropane
Concen: 91.965 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



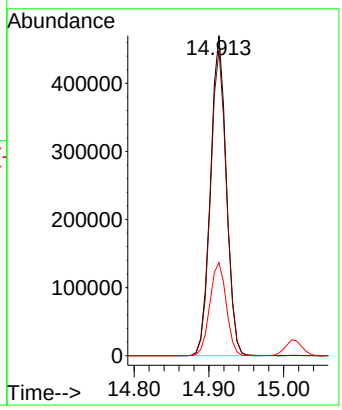


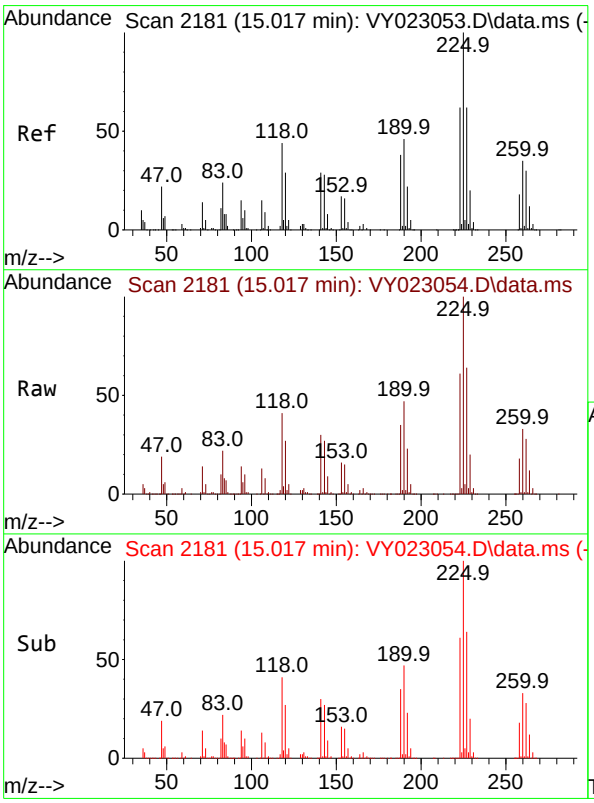
#93
1,2,4-Trichlorobenzene
Concen: 99.460 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

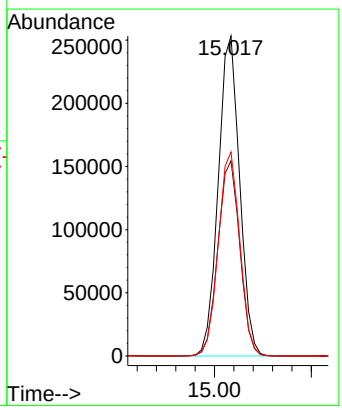


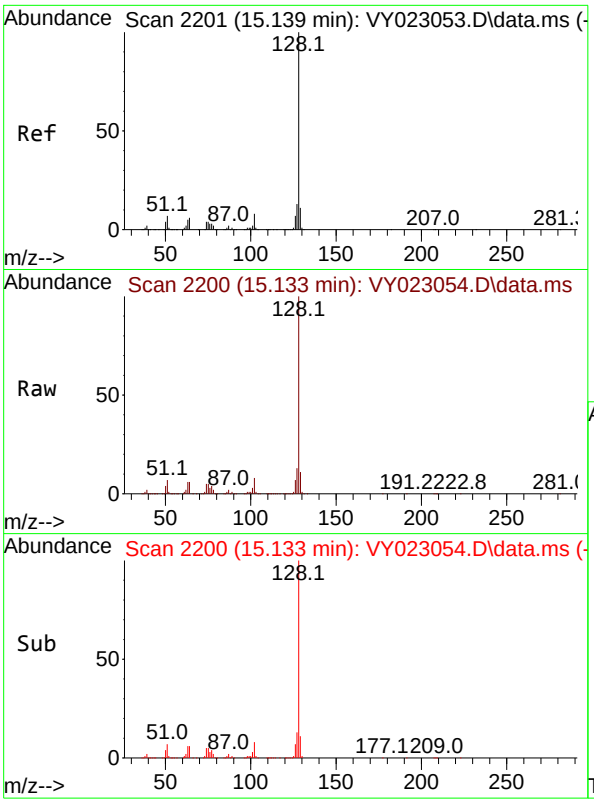


#94
Hexachlorobutadiene
Concen: 94.803 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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



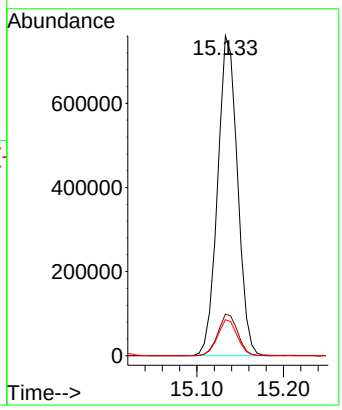


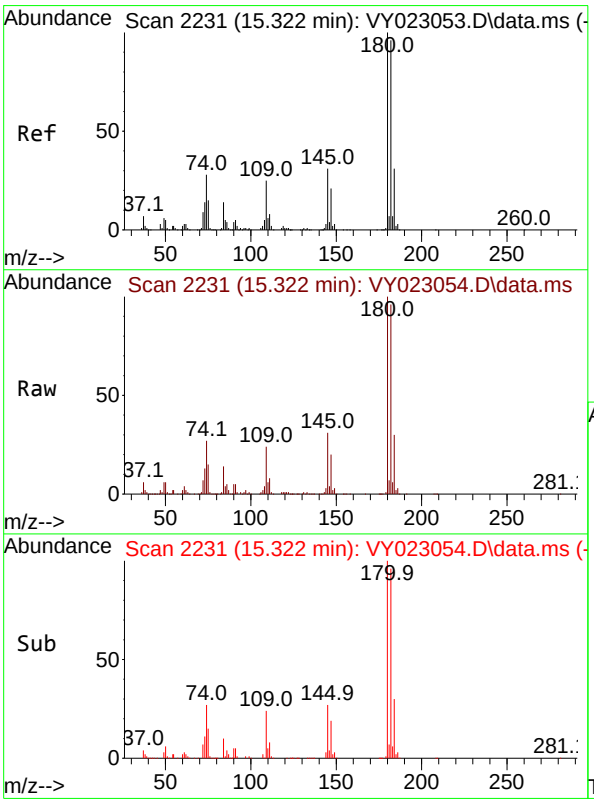
#95
Naphthalene
Concen: 102.147 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

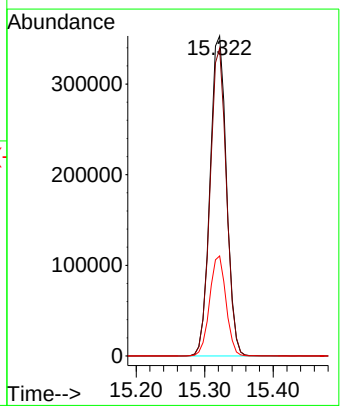




#96
1,2,3-Trichlorobenzene
Concen: 98.046 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

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

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)
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

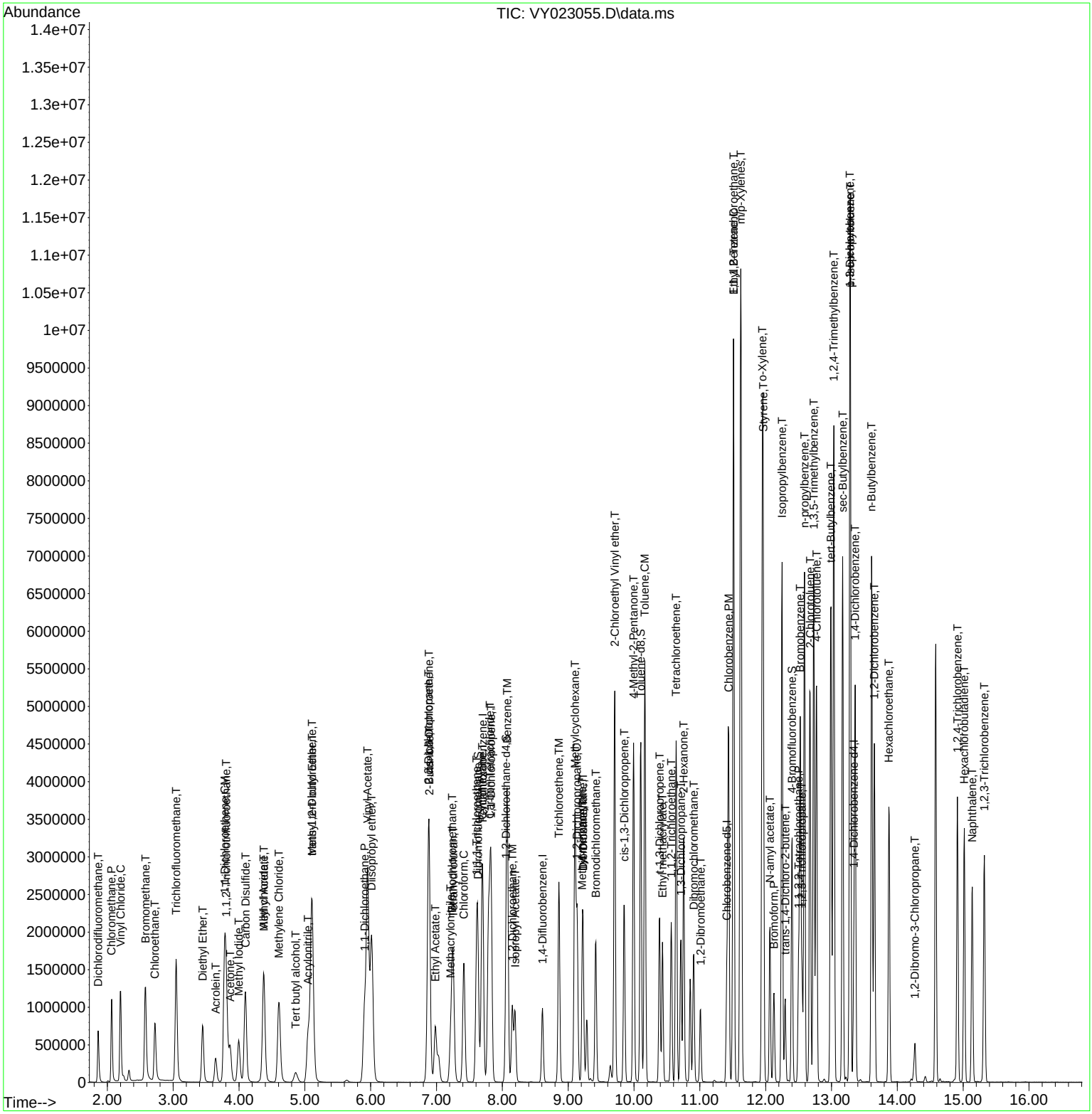
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

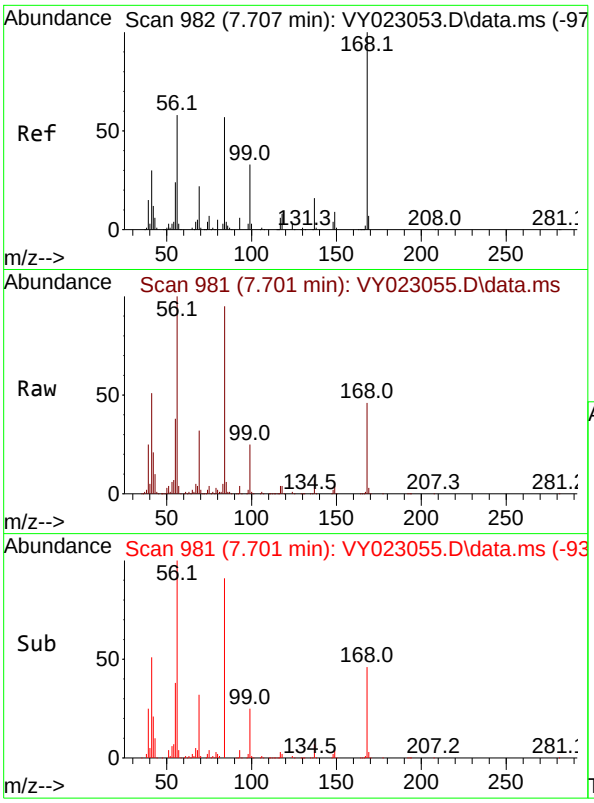
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



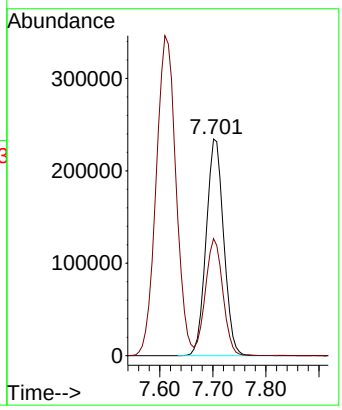


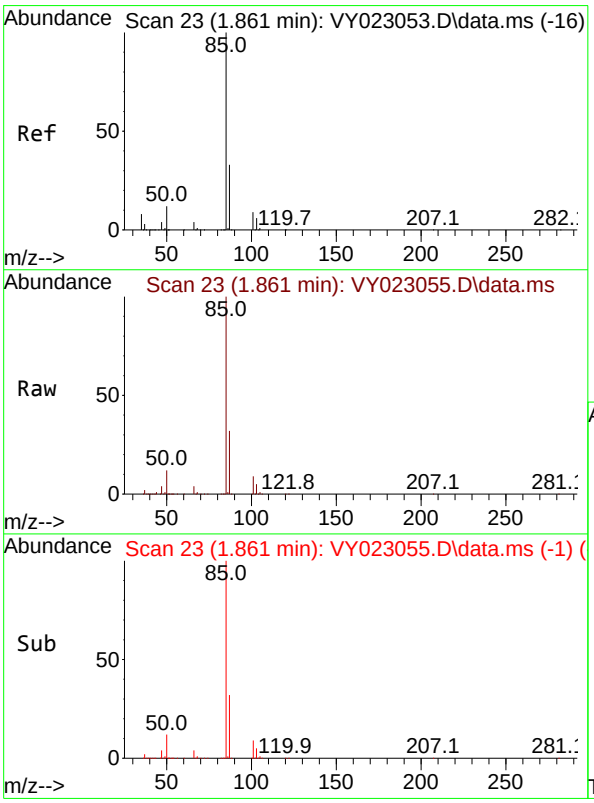
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 538712

Ion	Ratio	Lower	Upper
168	100		
99	53.8	42.8	64.2

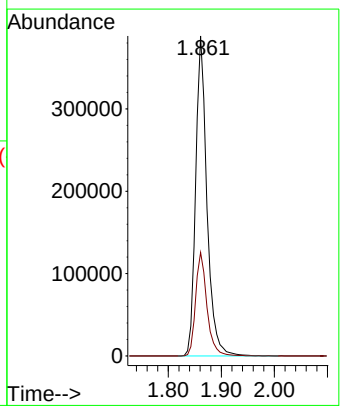


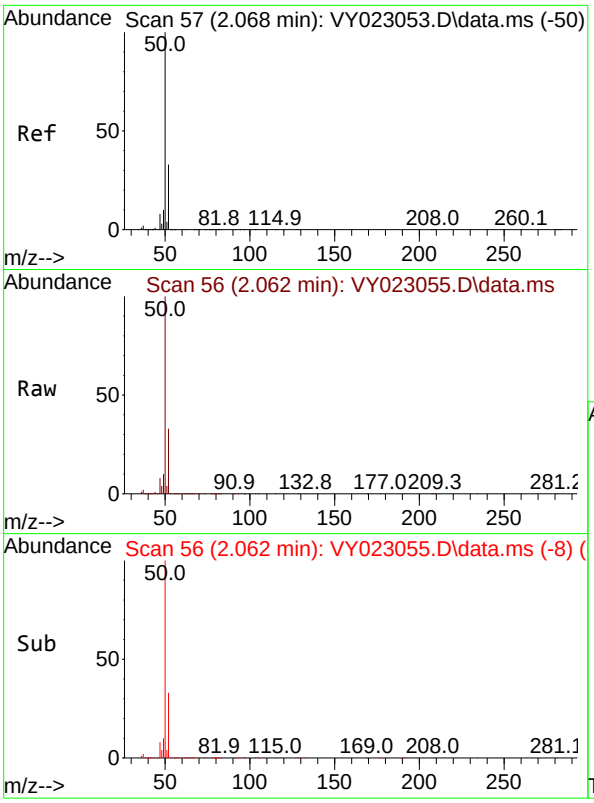


#2
Dichlorodifluoromethane
Concen: 130.017 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 85 Resp: 571723

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.6	49.8



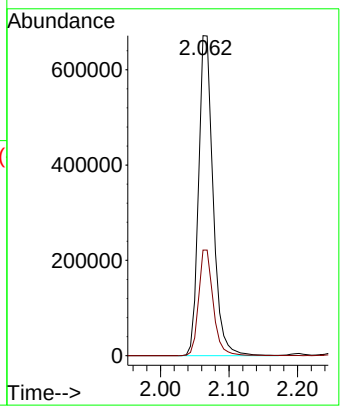


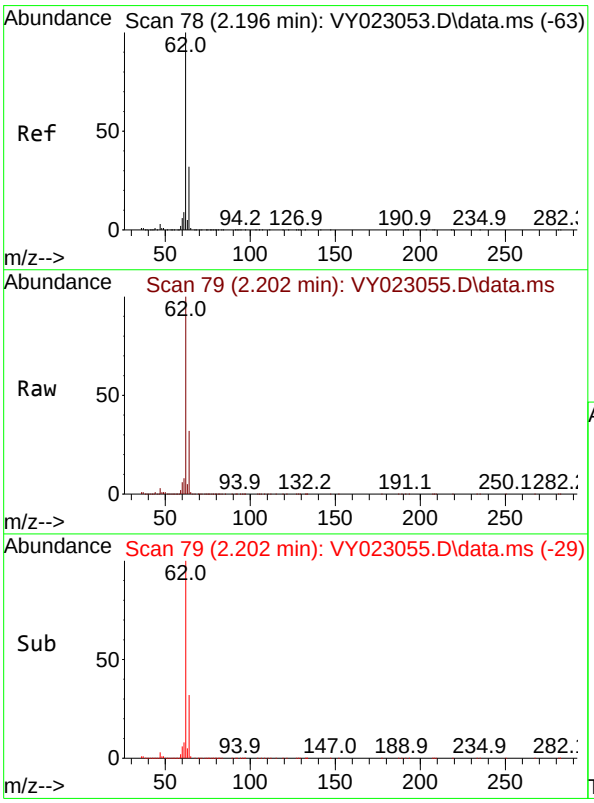
#3
Chloromethane
Concen: 139.173 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 991215

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1

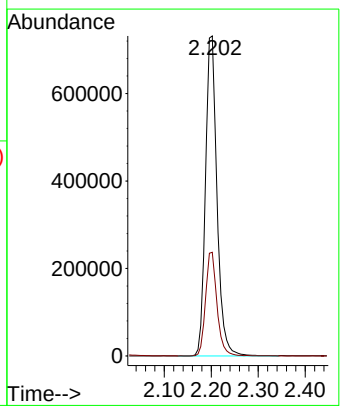


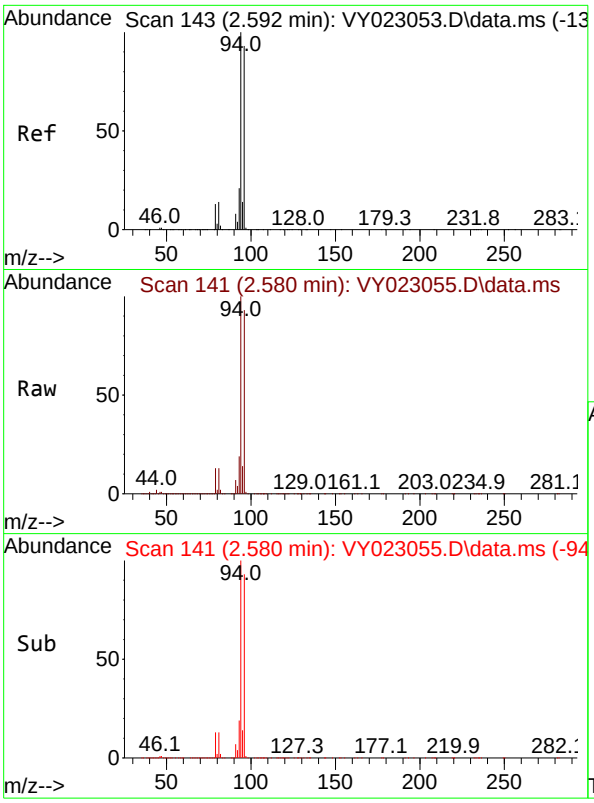


#4
Vinyl Chloride
Concen: 140.692 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 1238646

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0



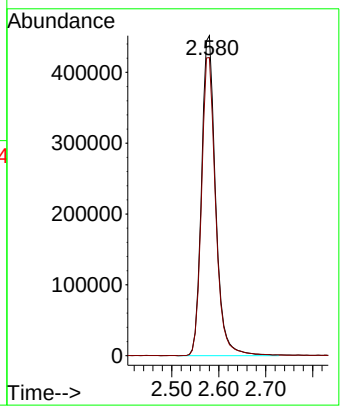


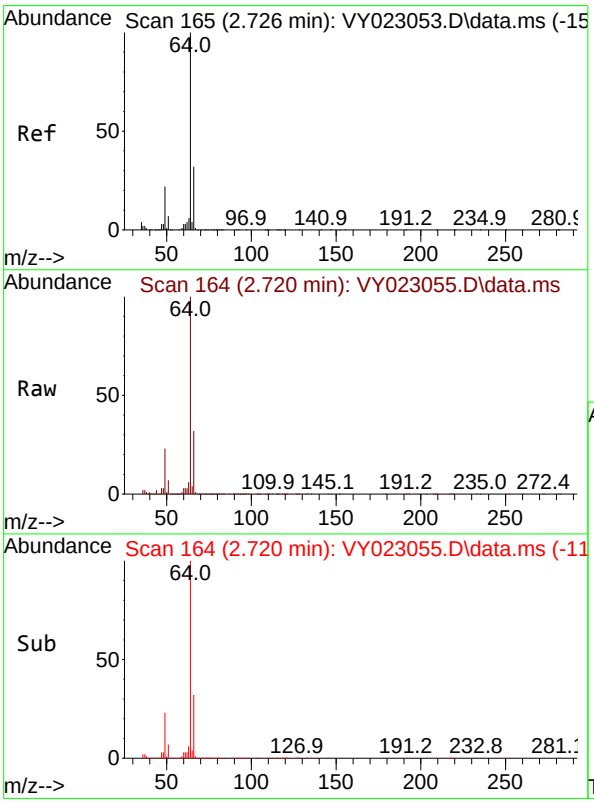
#5
Bromomethane
Concen: 142.770 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 938717

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	112.0

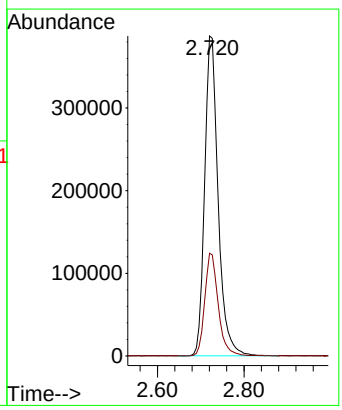


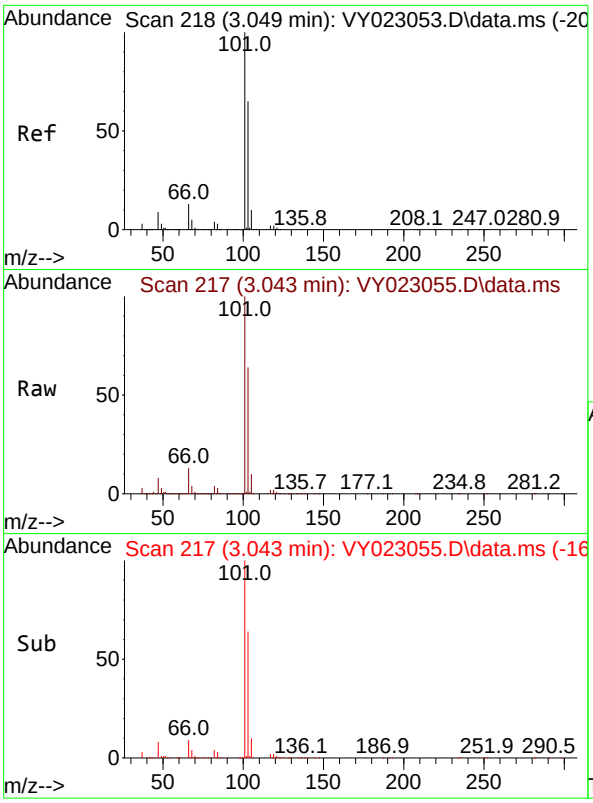


#6
Chloroethane
Concen: 142.581 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 64 Resp: 834547

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6



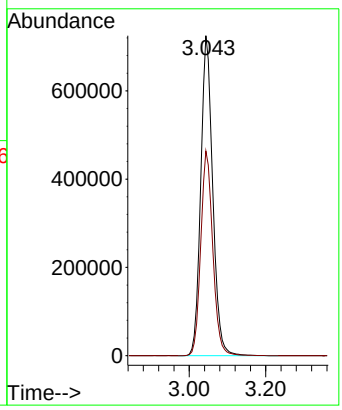


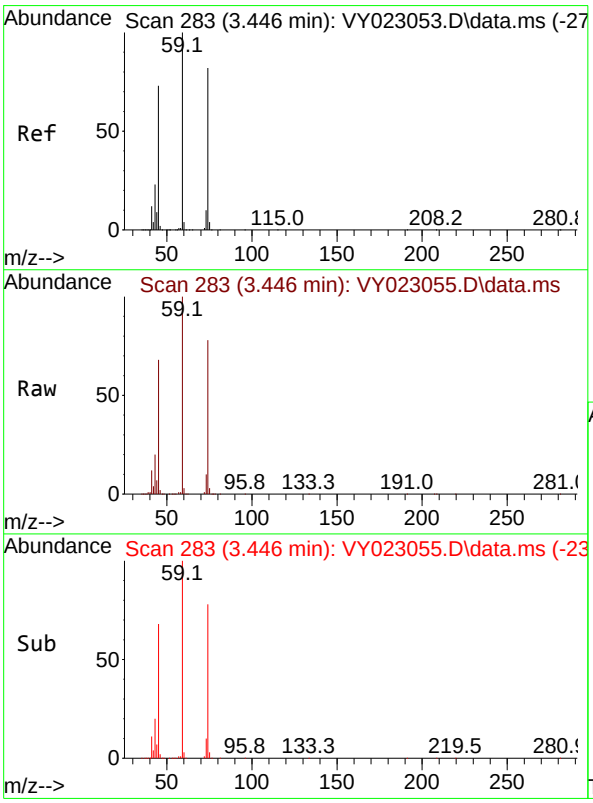
#7
Trichlorofluoromethane
Concen: 147.051 ug/l
RT: 3.043 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 1574213

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.9	77.9

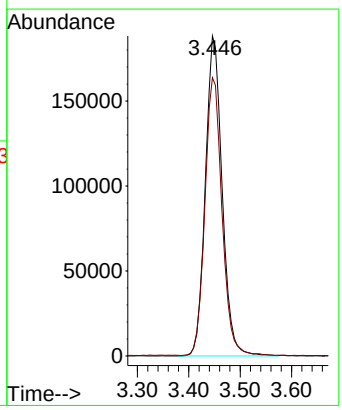


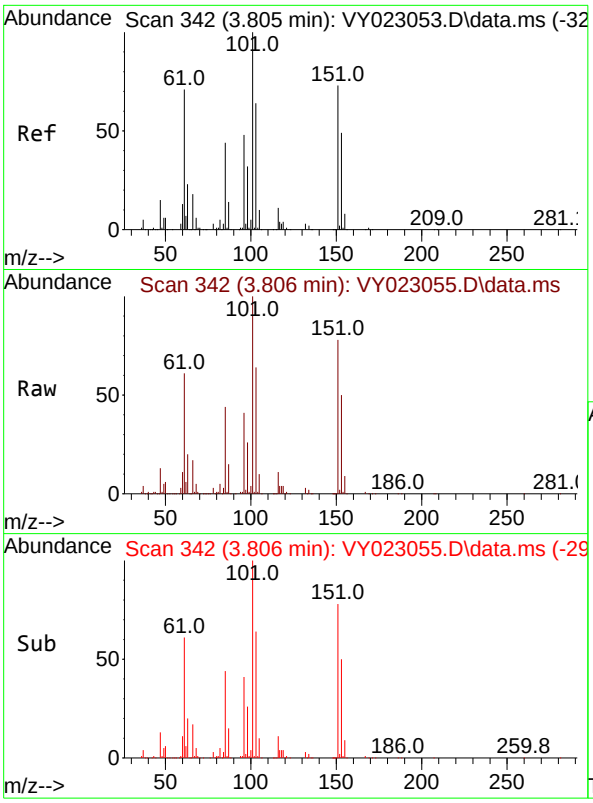


#8
Diethyl Ether
Concen: 150.496 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 74 Resp: 426242

Ion	Ratio	Lower	Upper
74	100		
45	88.9	44.4	133.2



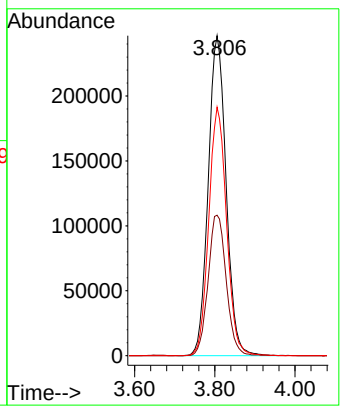


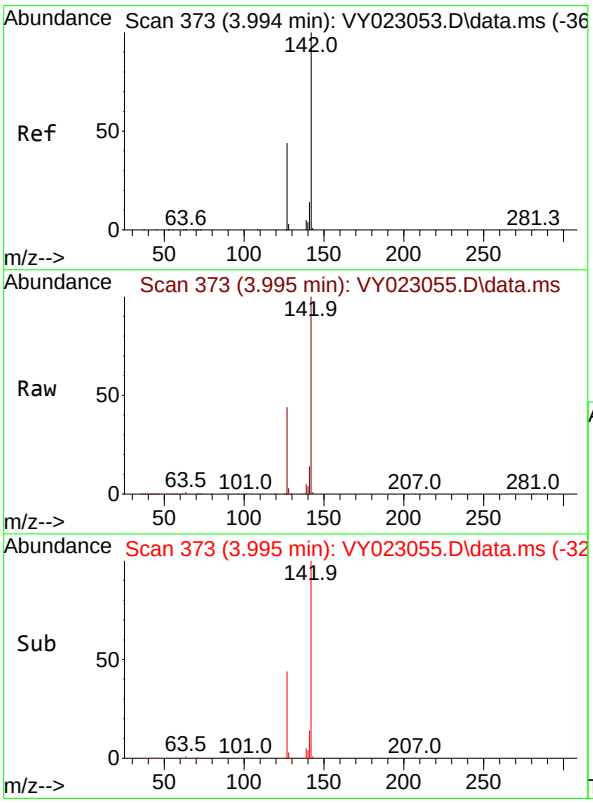
#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.479 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

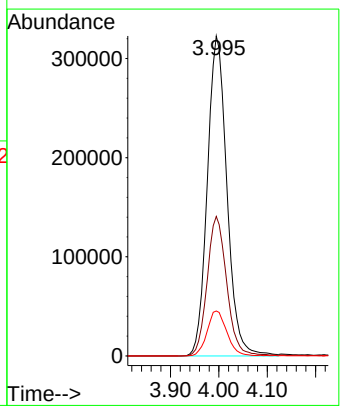


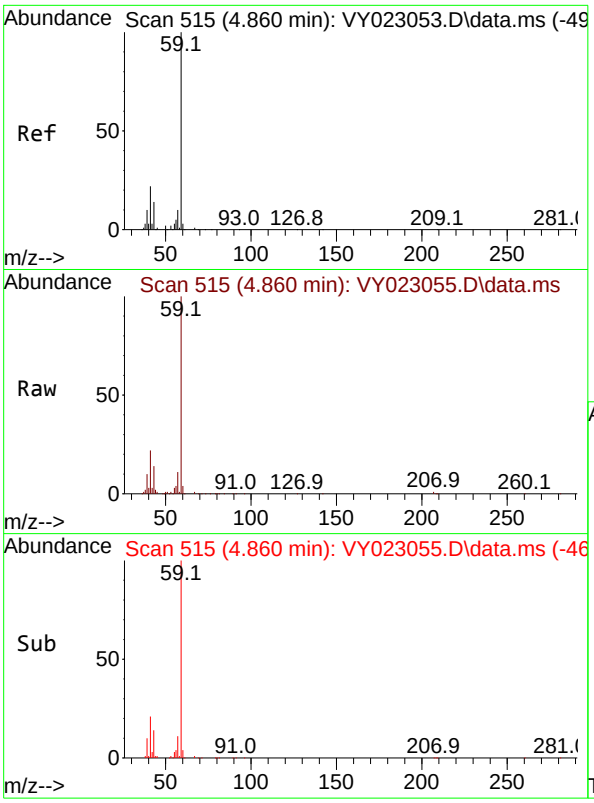


#10
Methyl Iodide
Concen: 159.567 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



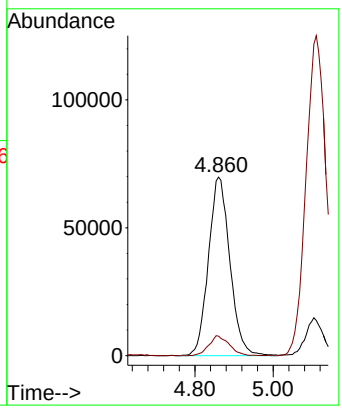


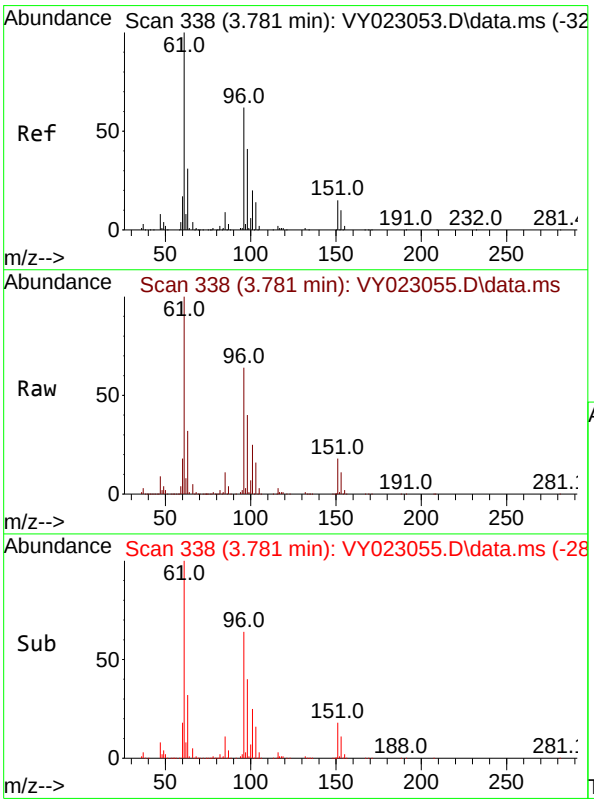
#11
Tert butyl alcohol
Concen: 753.967 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 265243

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0

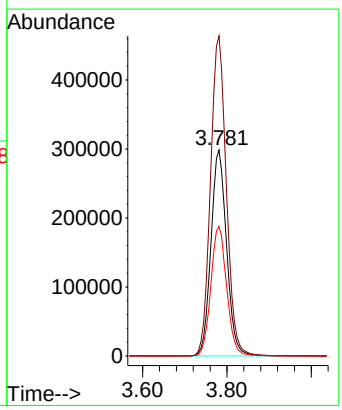


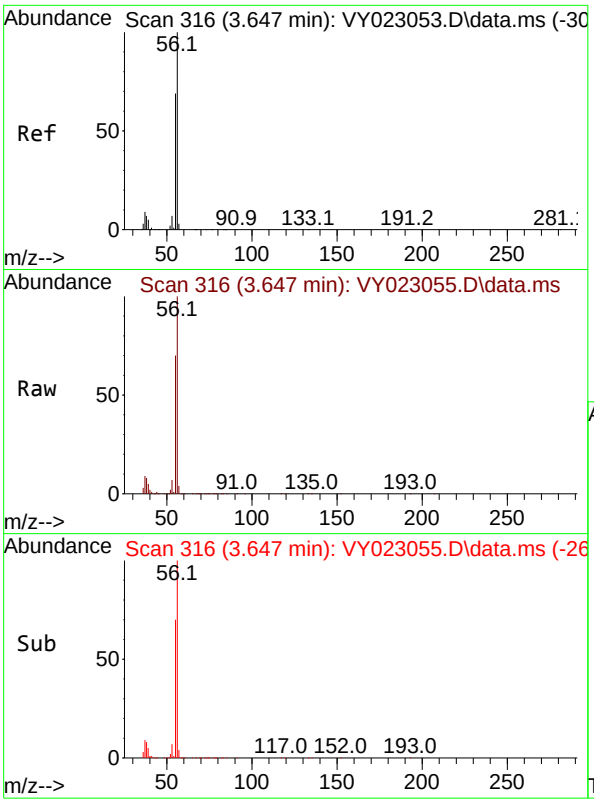


#12
1,1-Dichloroethene
Concen: 147.960 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



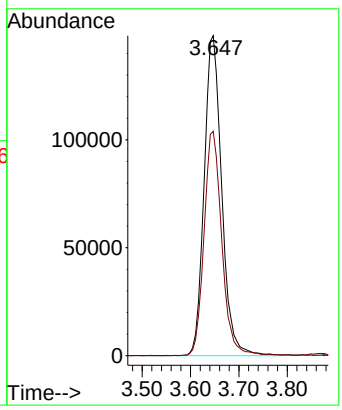


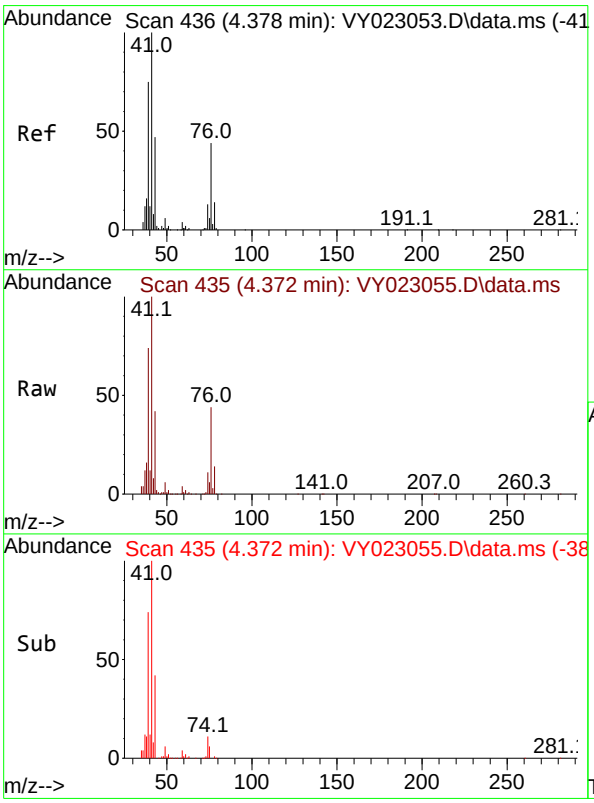
#13
Acrolein
Concen: 727.070 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 374594

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.2	82.8

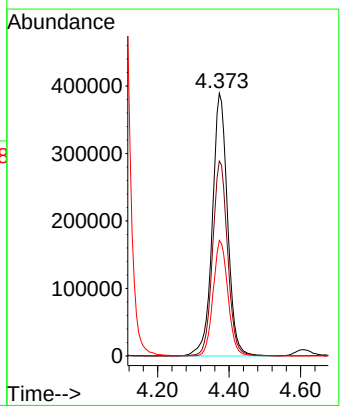


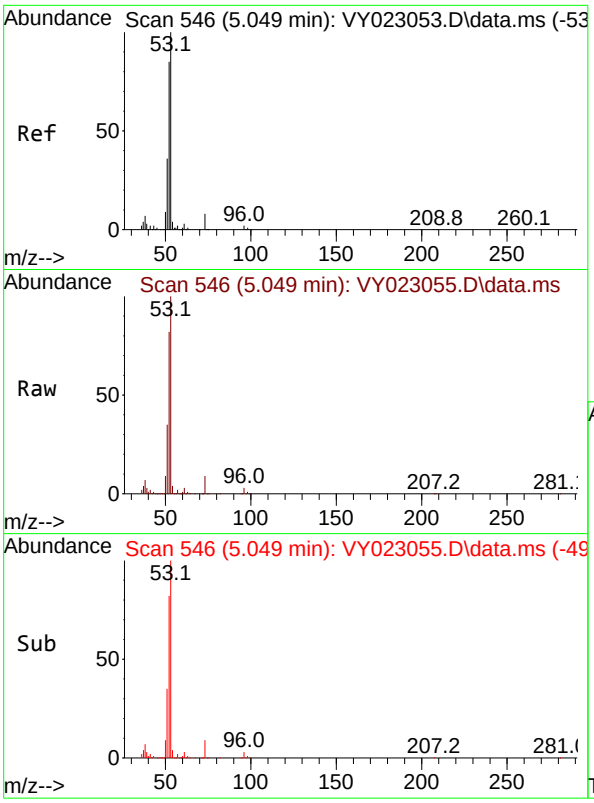


#14
Allyl chloride
Concen: 150.707 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



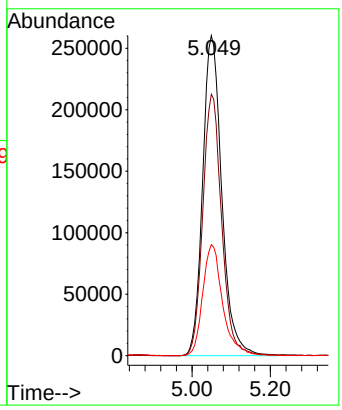


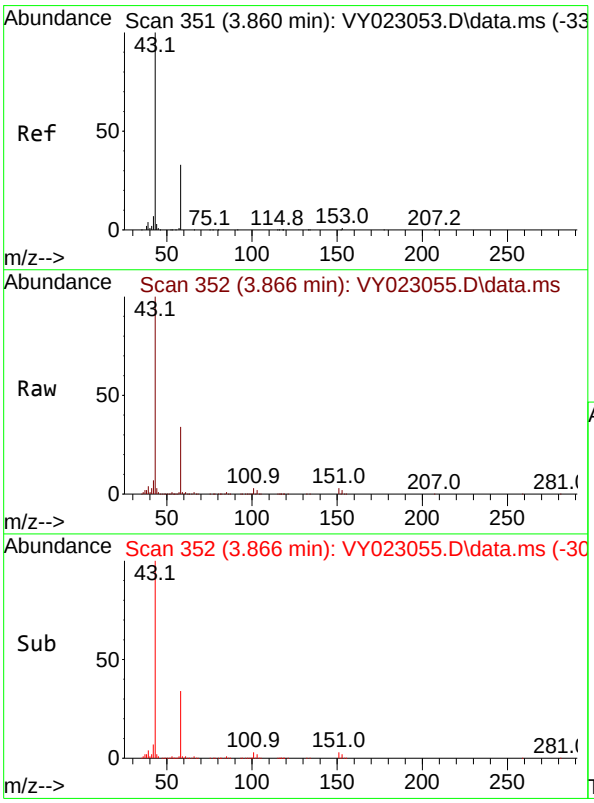
#15
Acrylonitrile
Concen: 767.115 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

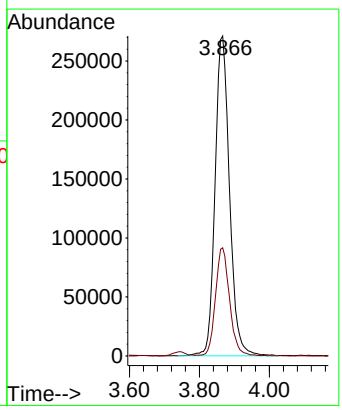


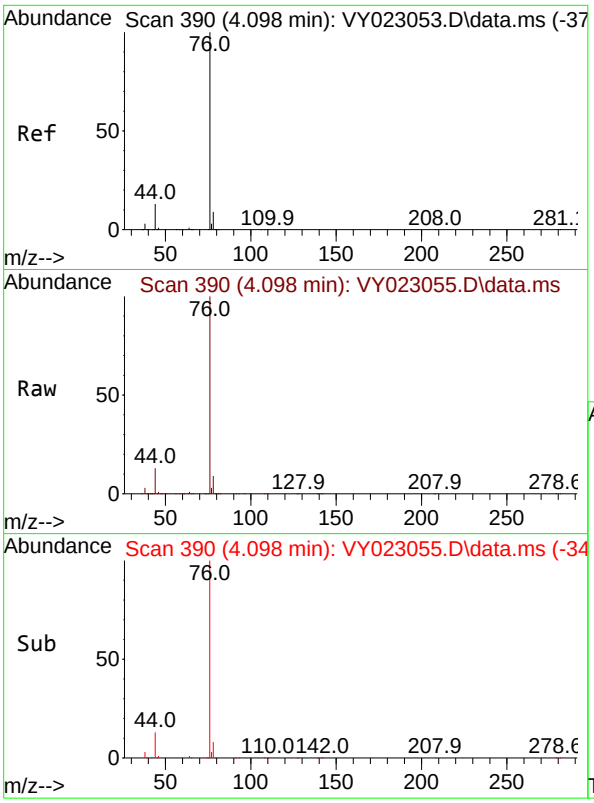


#16
Acetone
Concen: 699.133 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 777658

Ion	Ratio	Lower	Upper
43	100		
58	33.7	27.1	40.7



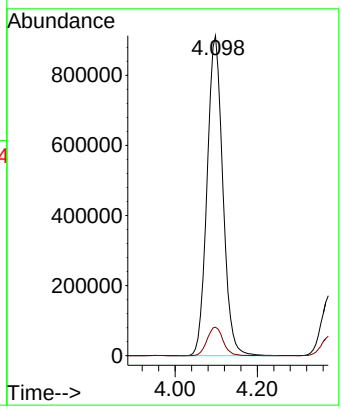


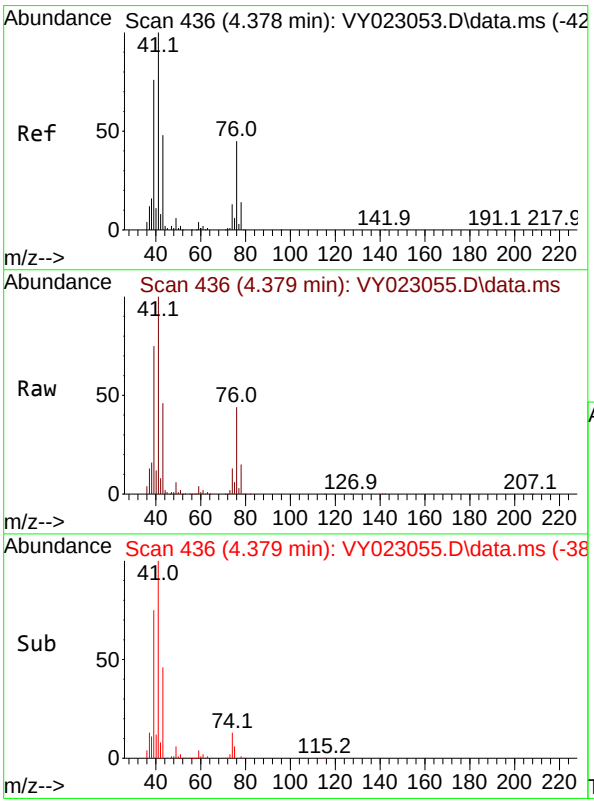
#17
Carbon Disulfide
Concen: 143.357 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 2426564

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

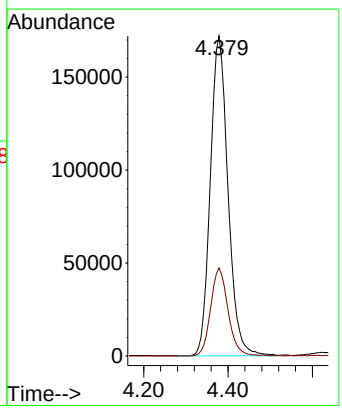


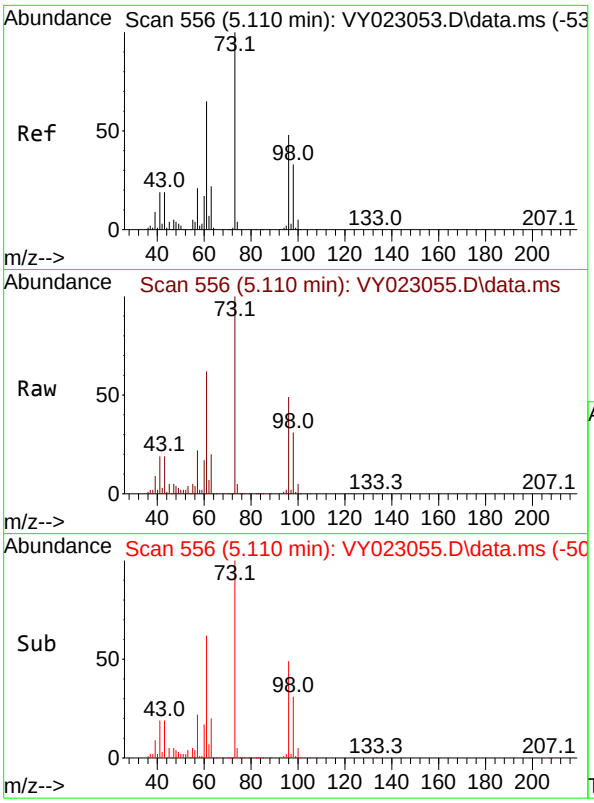


#18
Methyl Acetate
Concen: 151.100 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 500151

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8



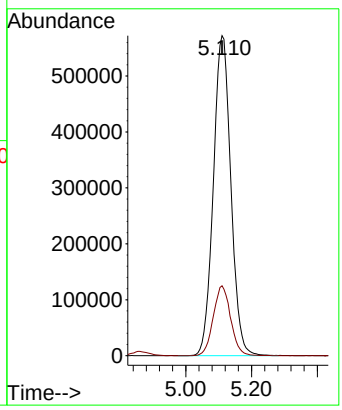


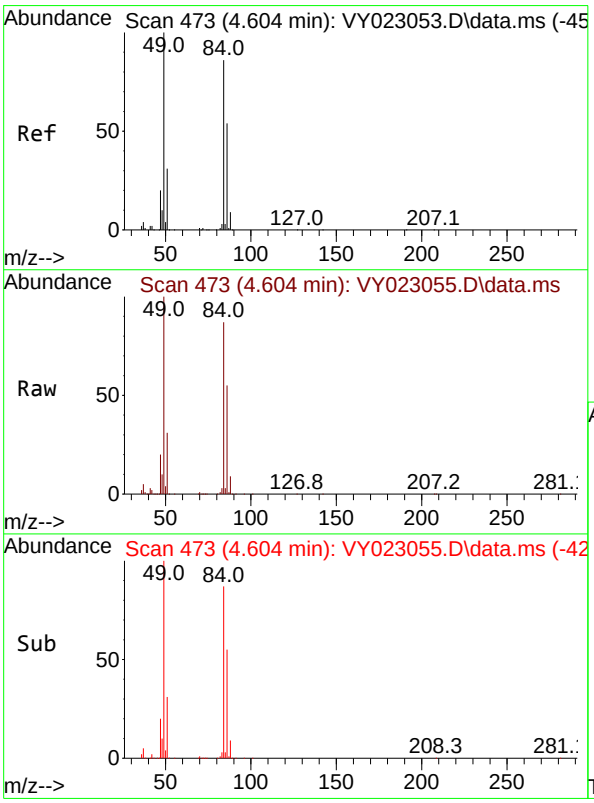
#19
Methyl tert-butyl Ether
Concen: 157.144 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 2113920

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7

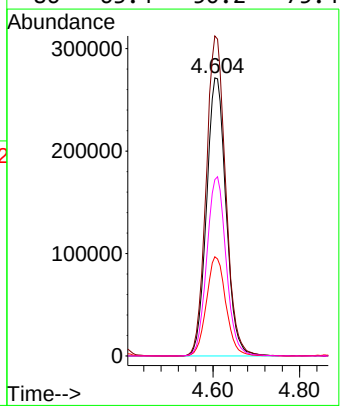


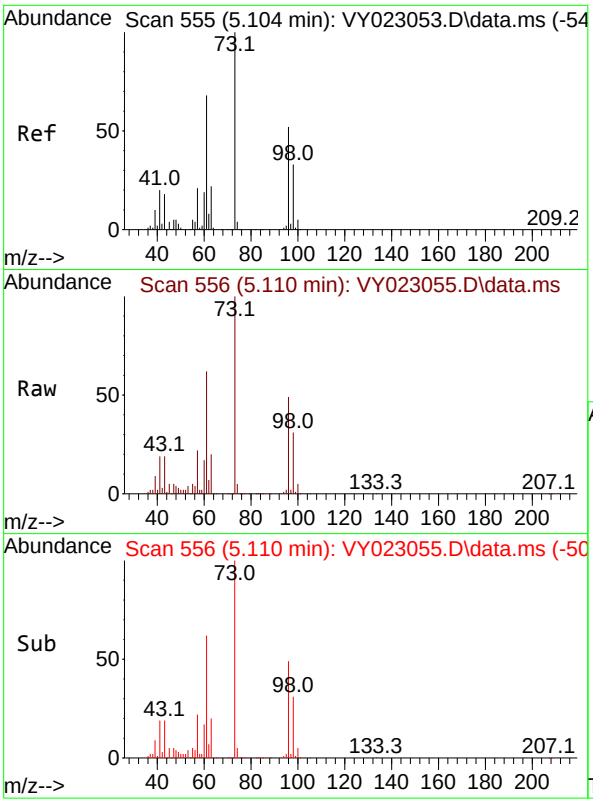


#20
Methylene Chloride
Concen: 152.064 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



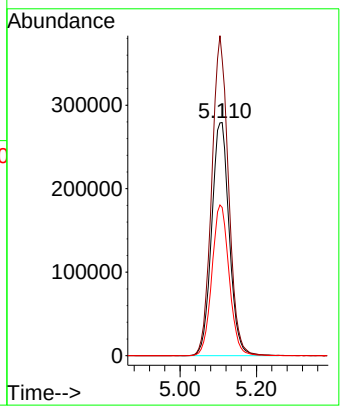


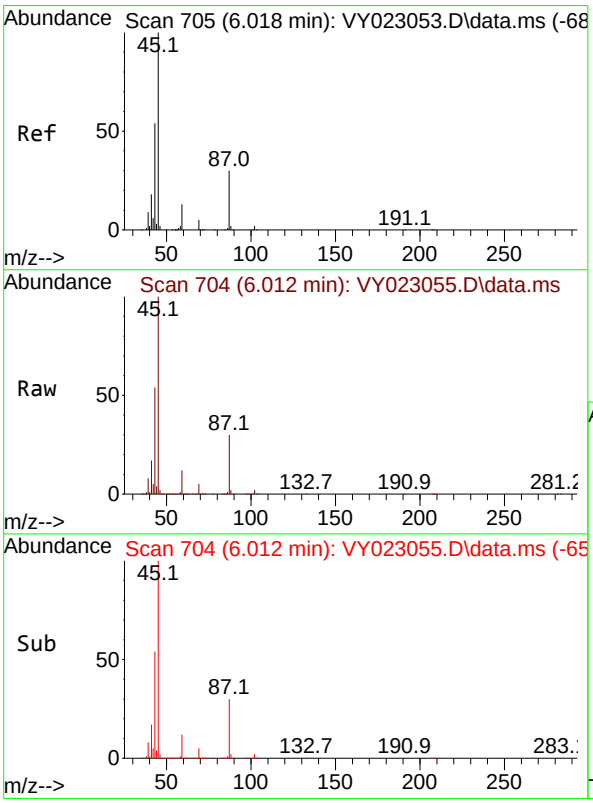
#21
trans-1,2-Dichloroethene
Concen: 152.474 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

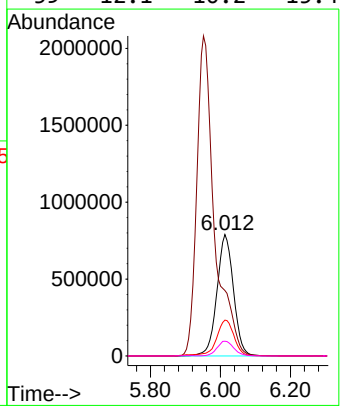


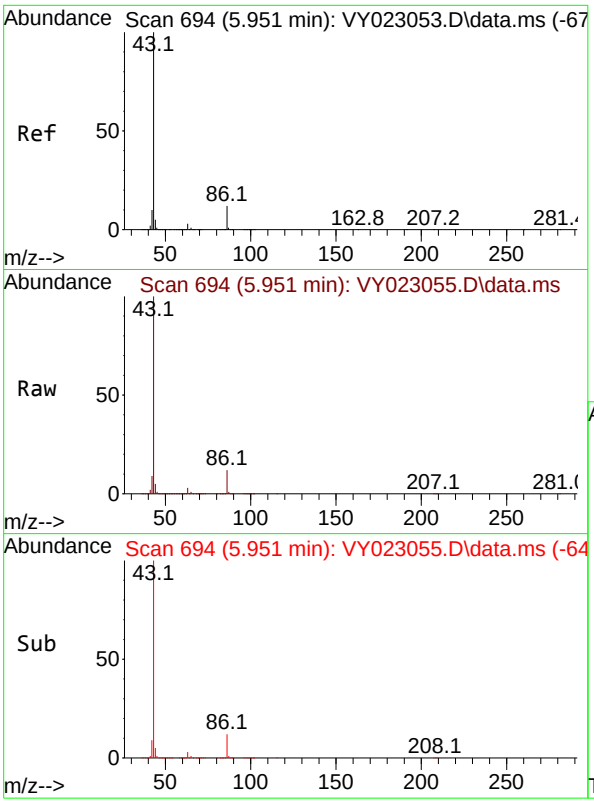


#22
Diisopropyl ether
Concen: 156.307 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



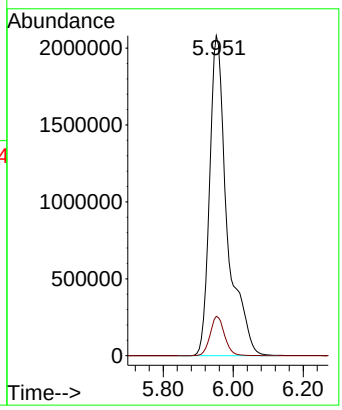


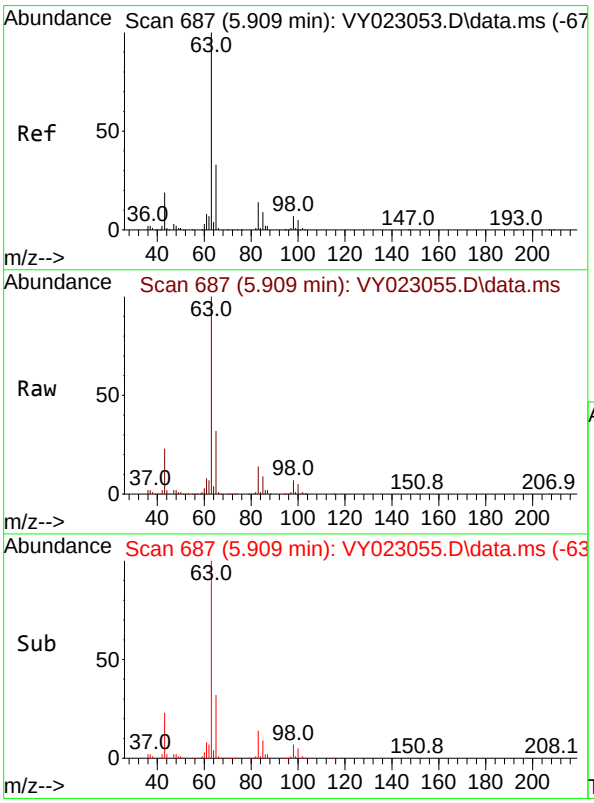
#23
Vinyl Acetate
Concen: 791.851 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 7267824

Ion	Ratio	Lower	Upper
43	100		
86	12.3	9.6	14.4

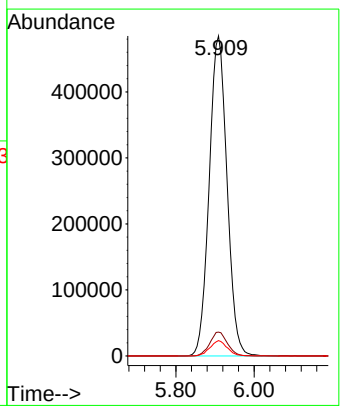


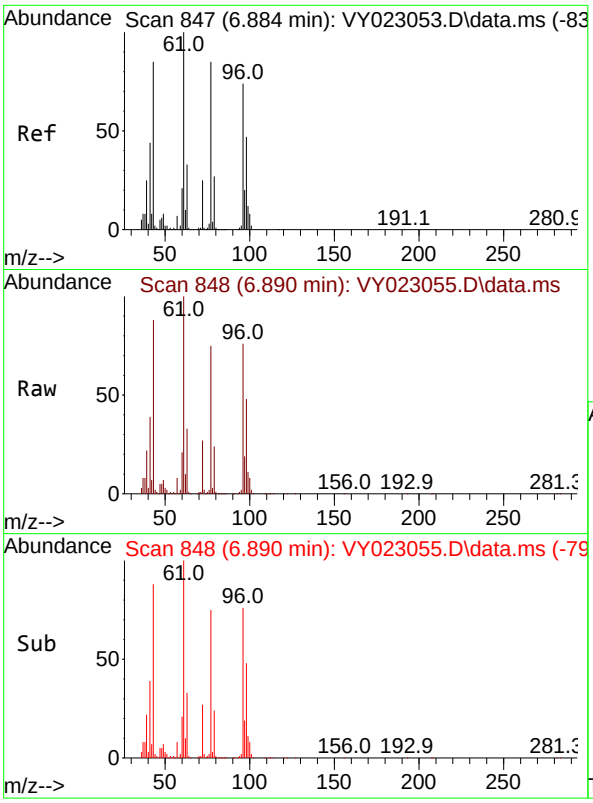


#24
1,1-Dichloroethane
Concen: 150.534 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



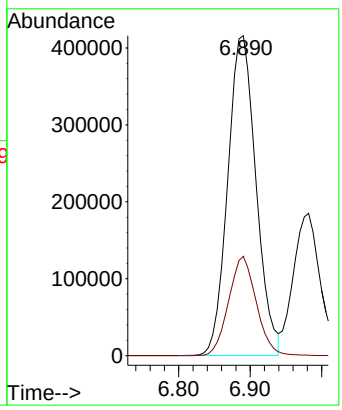


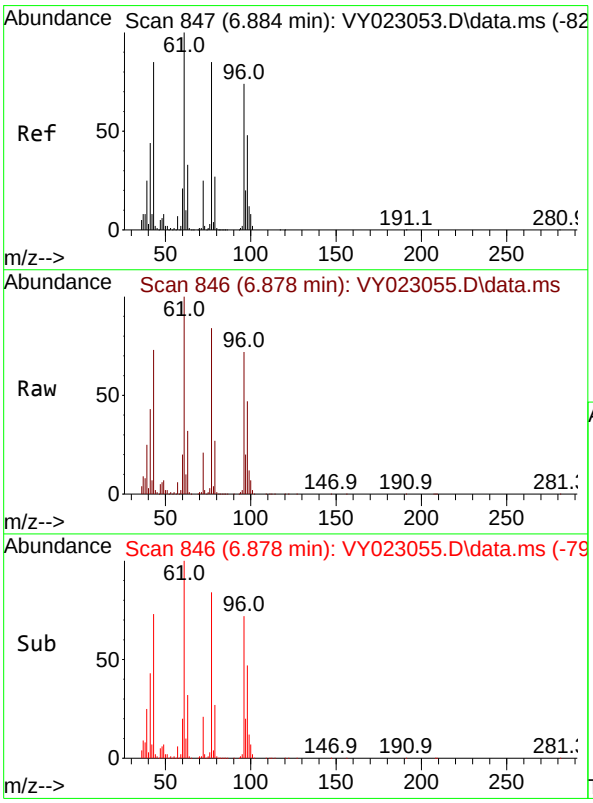
#25
2-Butanone
Concen: 756.289 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1144112

Ion	Ratio	Lower	Upper
43	100		
72	31.1	23.5	35.3

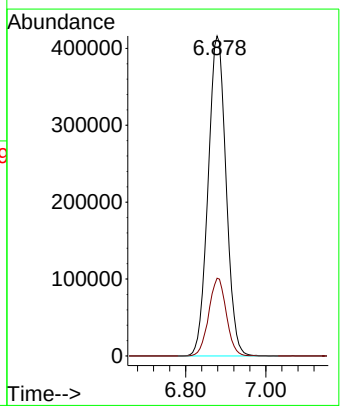


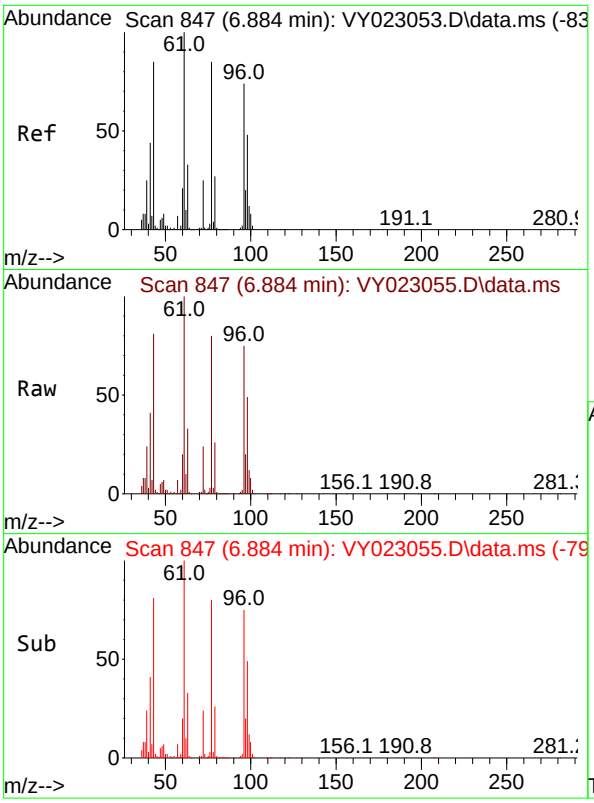


#26
2,2-Dichloropropane
Concen: 147.663 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 77 Resp: 1293043

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.8



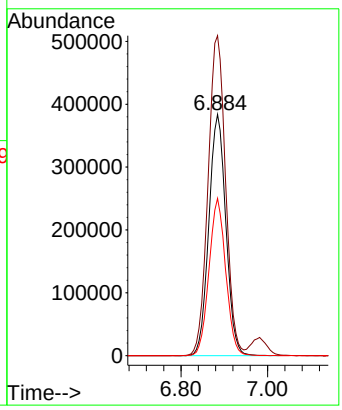


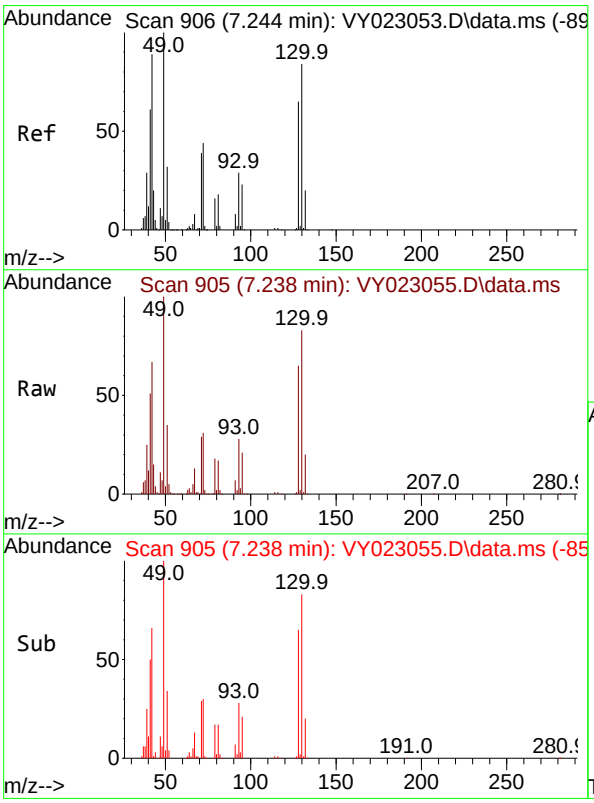
#27
cis-1,2-Dichloroethene
Concen: 155.348 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

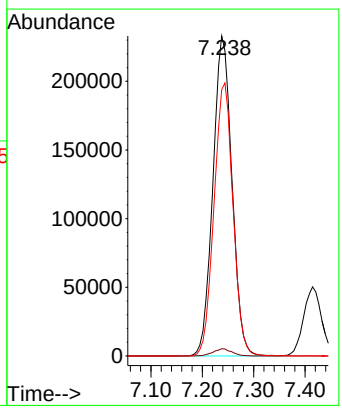


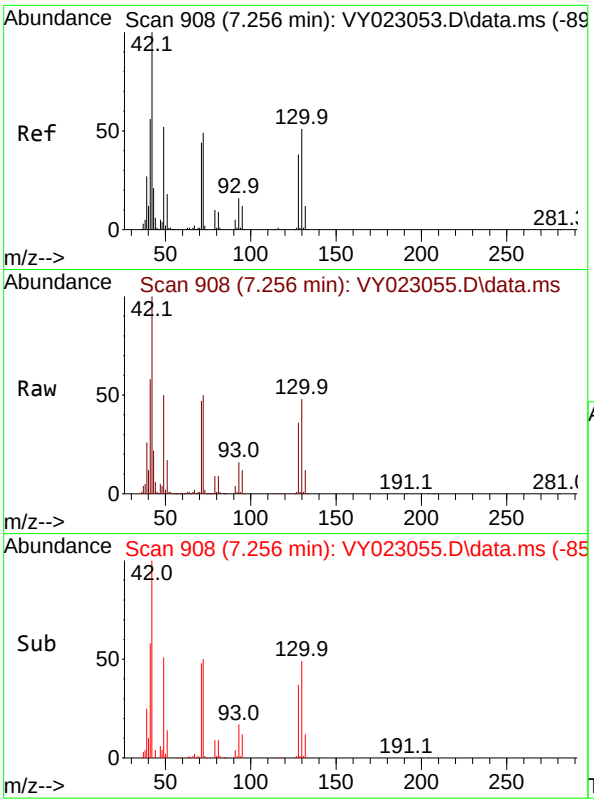


#28
Bromochloromethane
Concen: 148.984 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



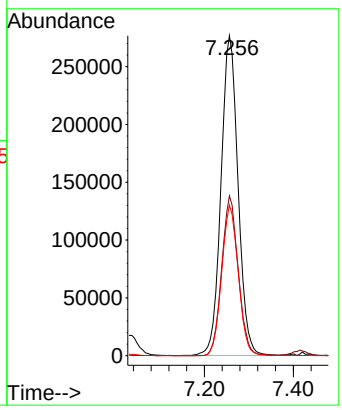


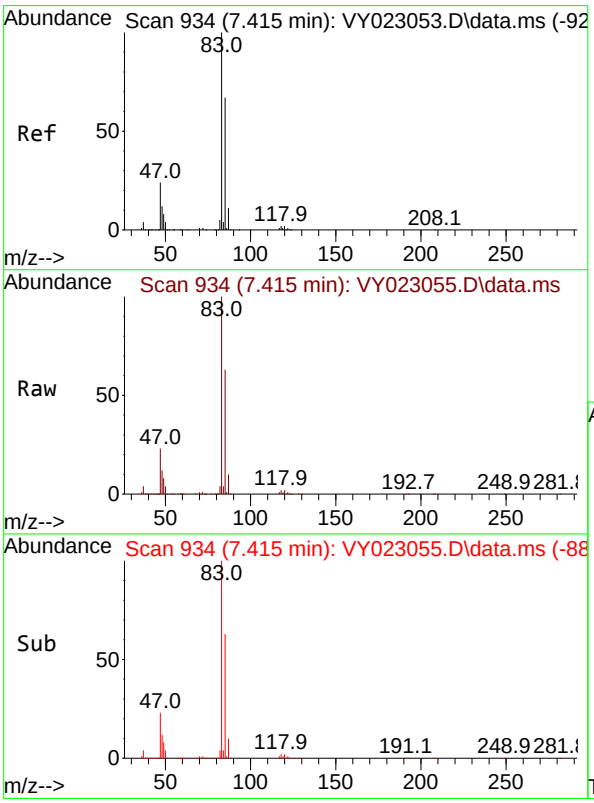
#29
Tetrahydrofuran
Concen: 783.186 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

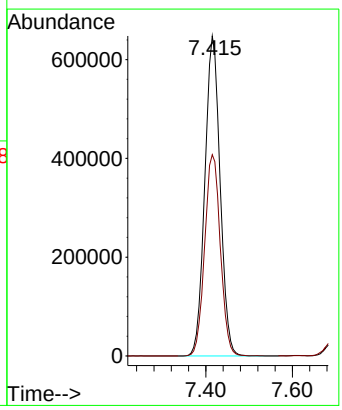


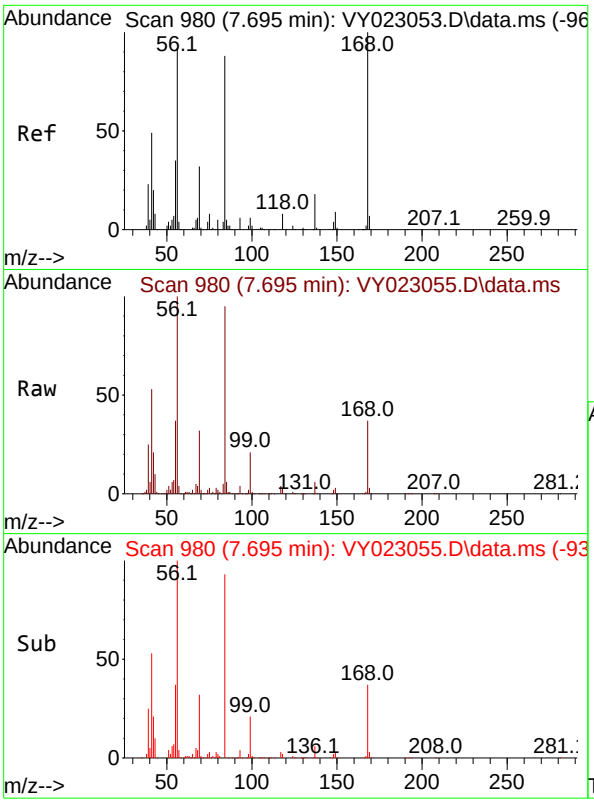


#30
Chloroform
Concen: 151.505 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 1585686

Ion	Ratio	Lower	Upper
83	100		
85	62.9	53.8	80.8



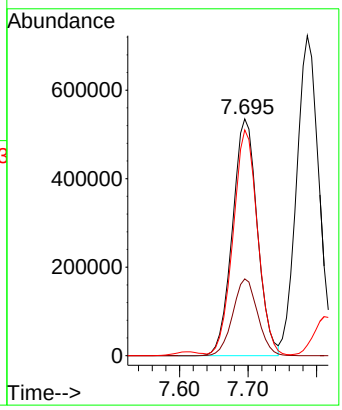


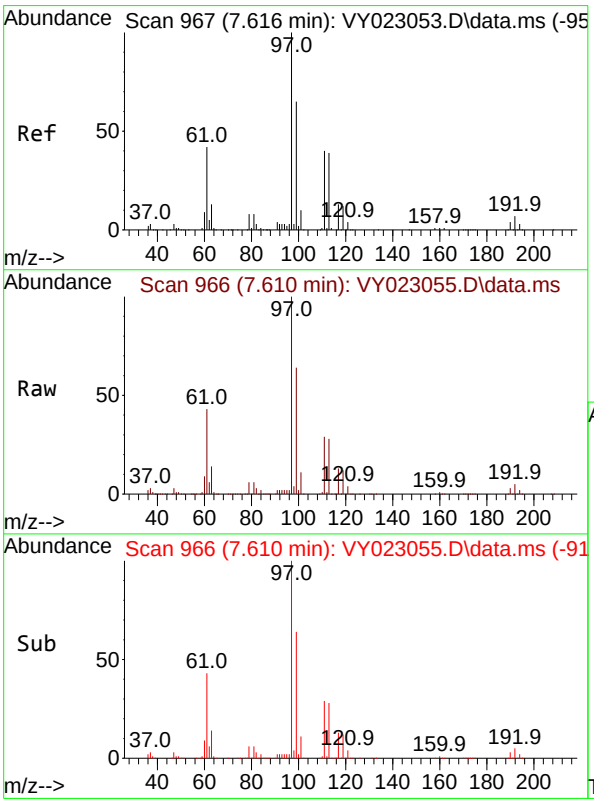
#31
Cyclohexane
Concen: 141.586 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

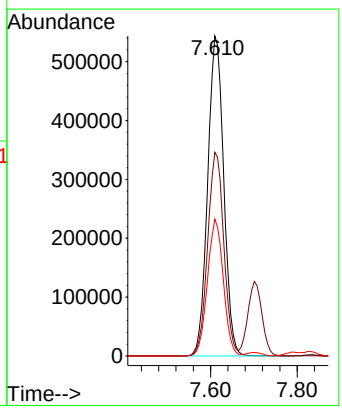


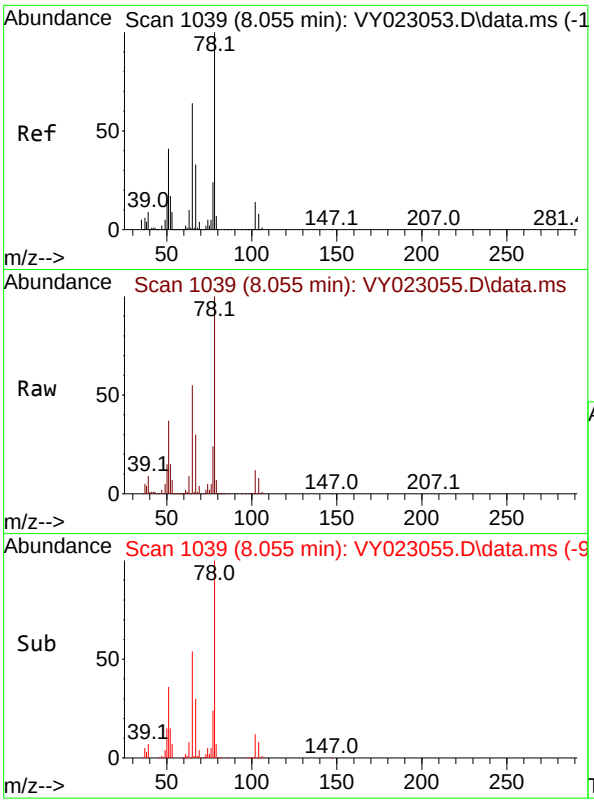


#32
1,1,1-Trichloroethane
Concen: 150.372 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



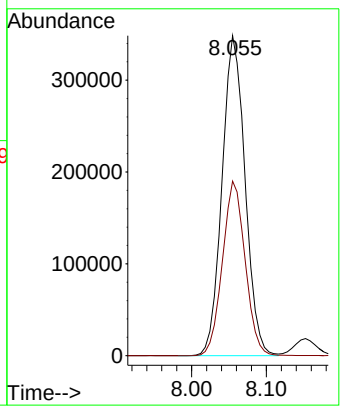


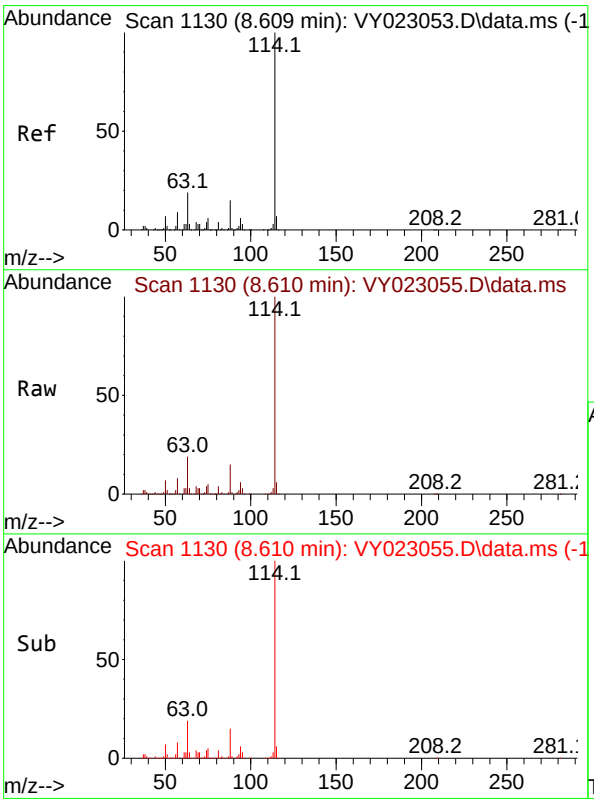
#33
1,2-Dichloroethane-d4
Concen: 145.480 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 746936

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	106.8

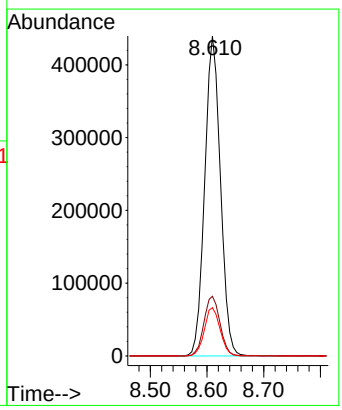


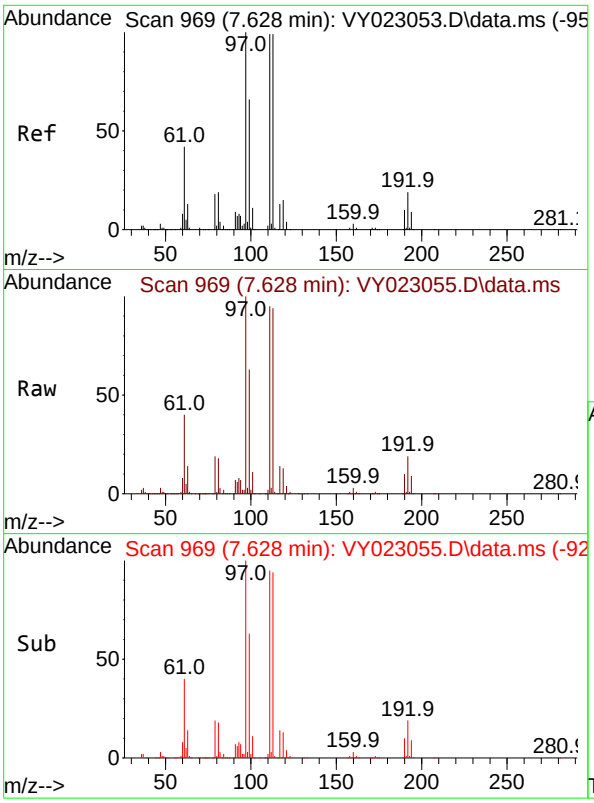


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



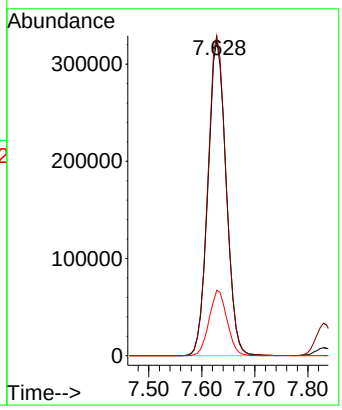


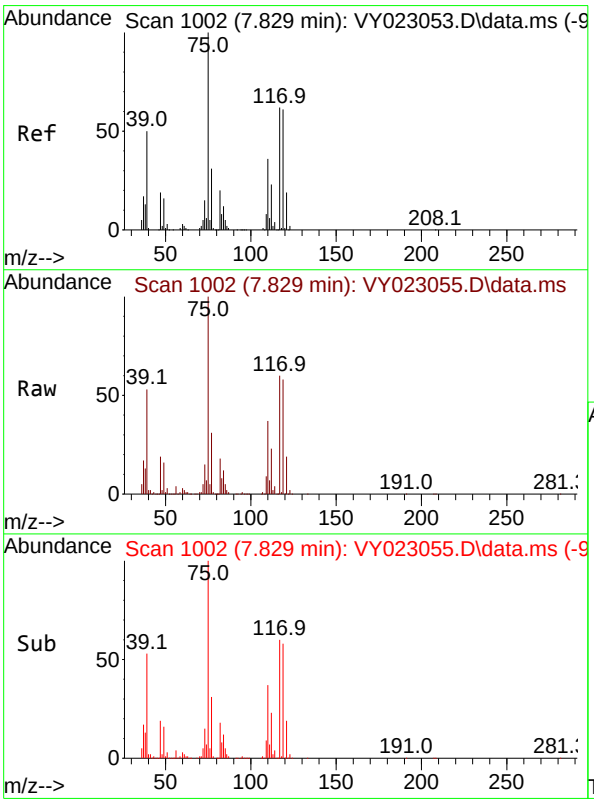
#35
Dibromofluoromethane
Concen: 152.837 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

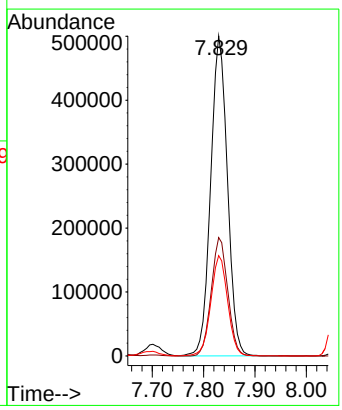


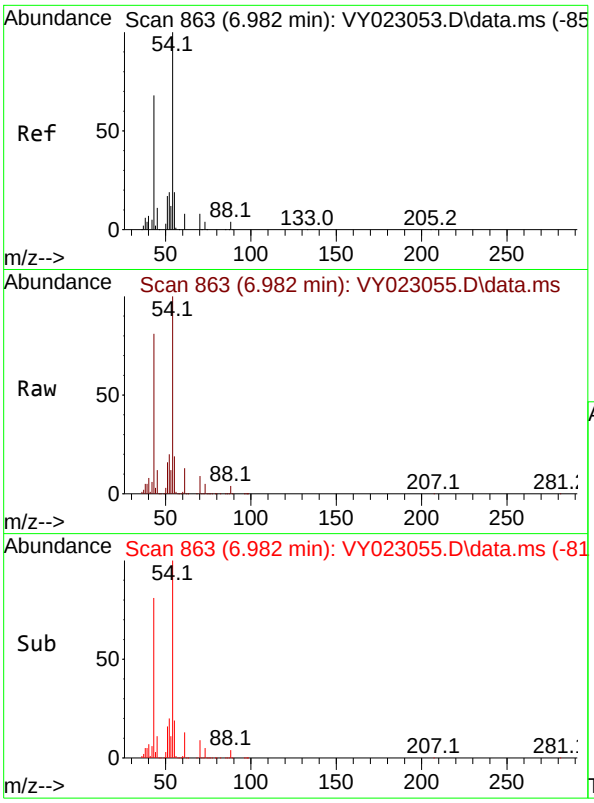


#36
1,1-Dichloropropene
Concen: 150.850 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



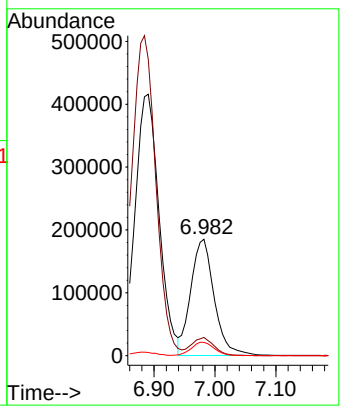


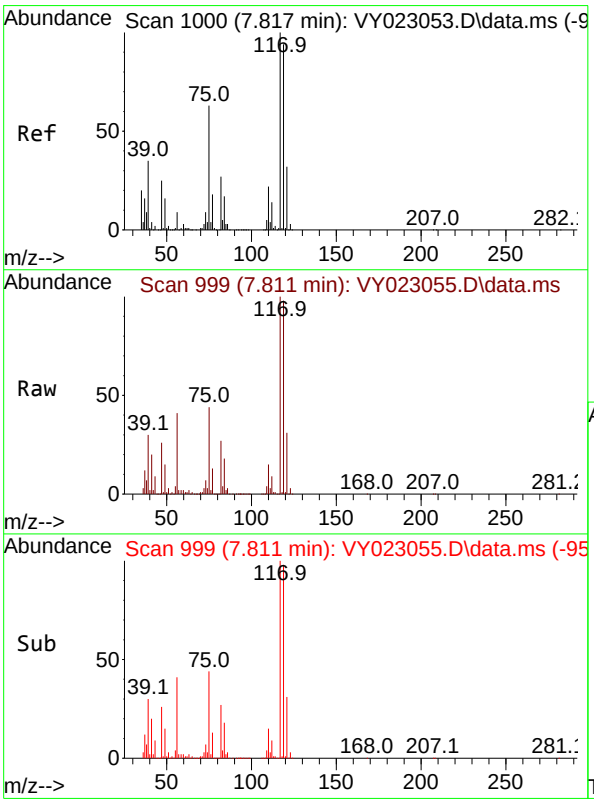
#37
Ethyl Acetate
Concen: 156.788 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

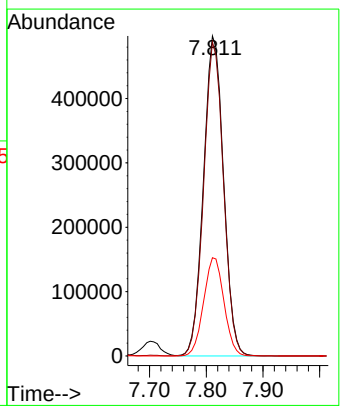


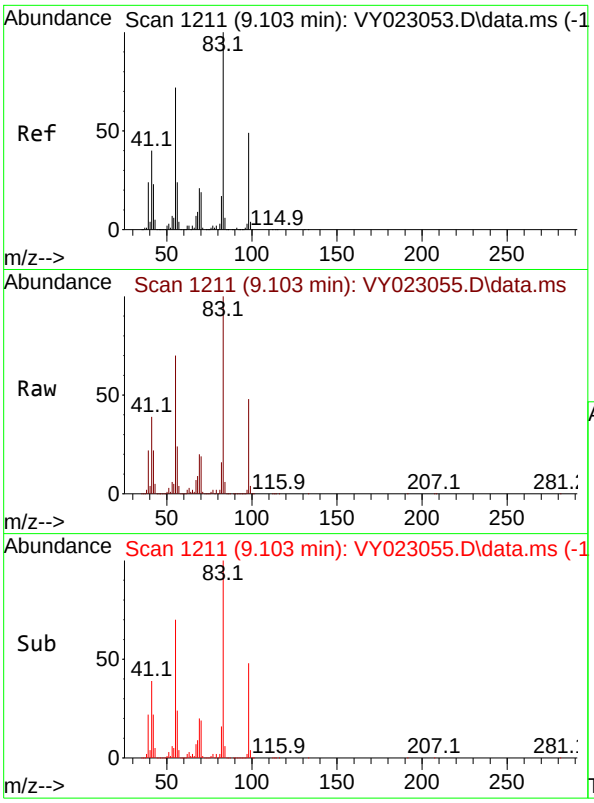


#38
Carbon Tetrachloride
Concen: 150.478 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



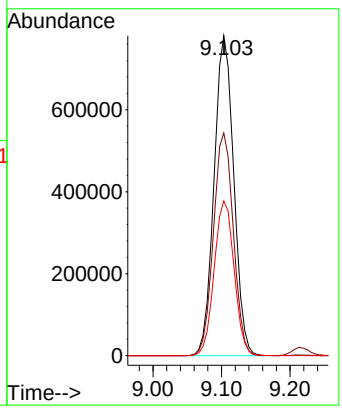


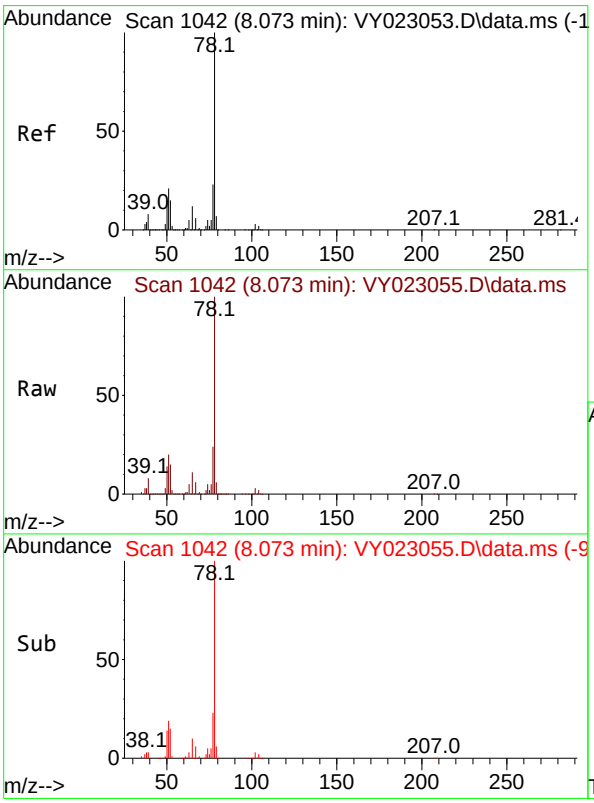
#39
Methylcyclohexane
Concen: 157.417 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

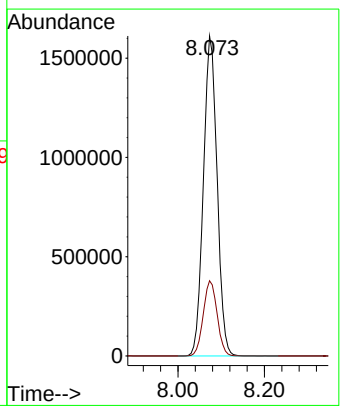


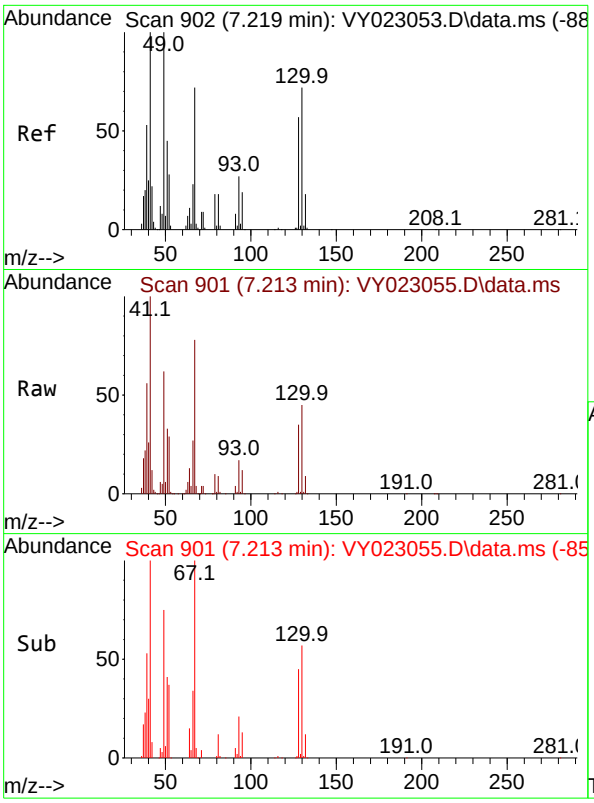


#40
Benzene
Concen: 152.720 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 78 Resp: 3533174

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0



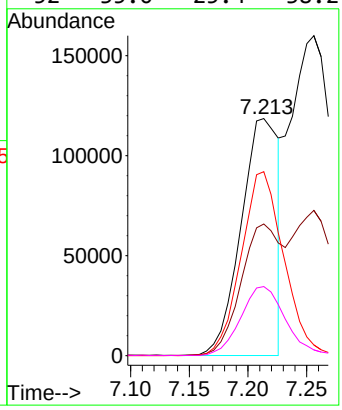


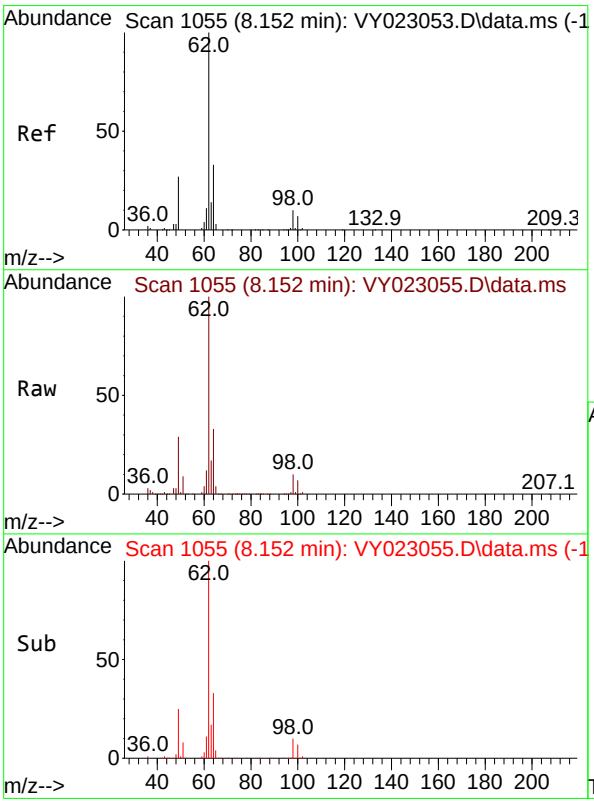
#41
Methacrylonitrile
Concen: 143.669 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

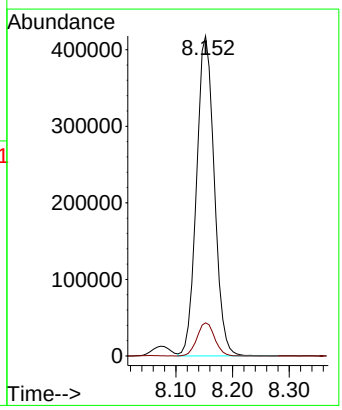


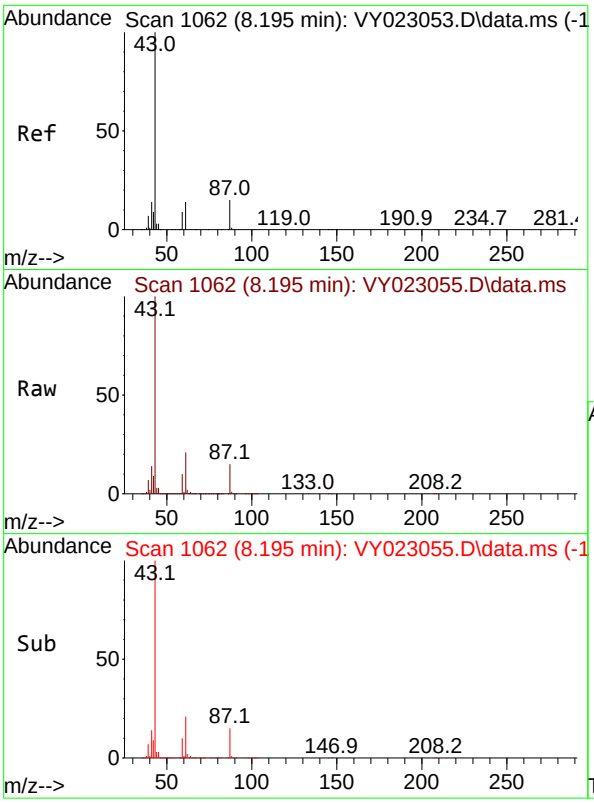


#42
1,2-Dichloroethane
Concen: 151.078 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 909030

Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6



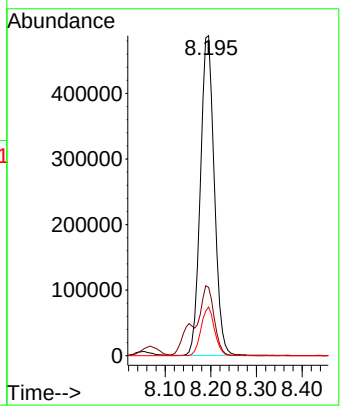


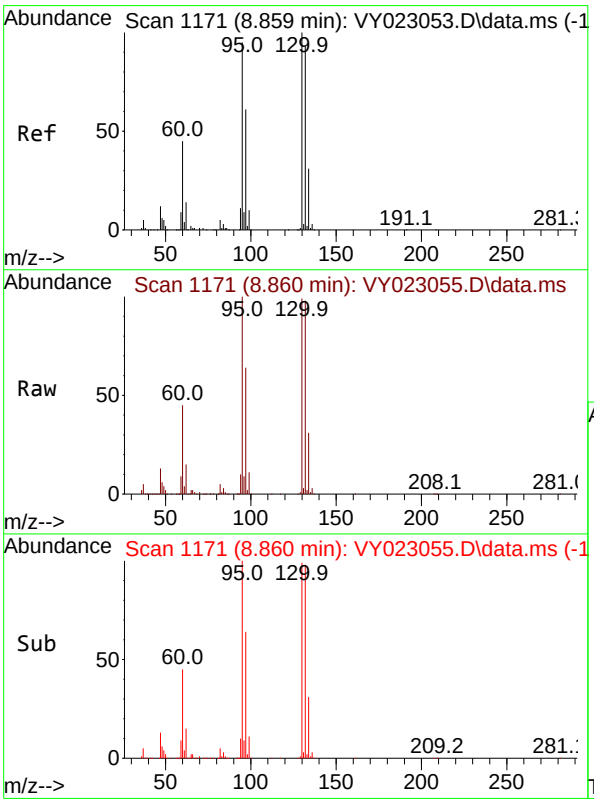
#43
Isopropyl Acetate
Concen: 161.596 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

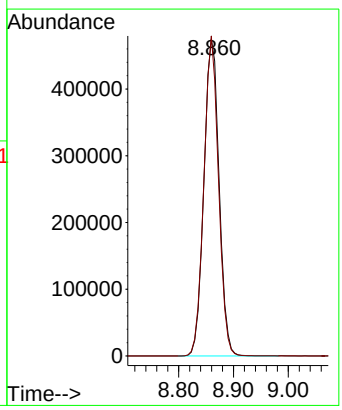


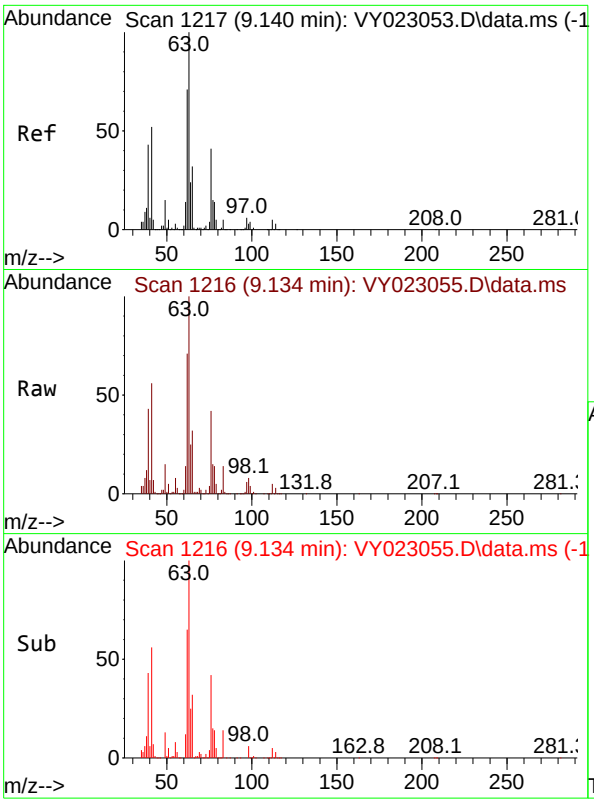


#44
Trichloroethene
Concen: 152.126 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:130 Resp: 909510

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	190.2



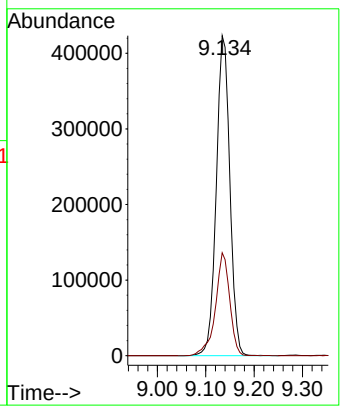


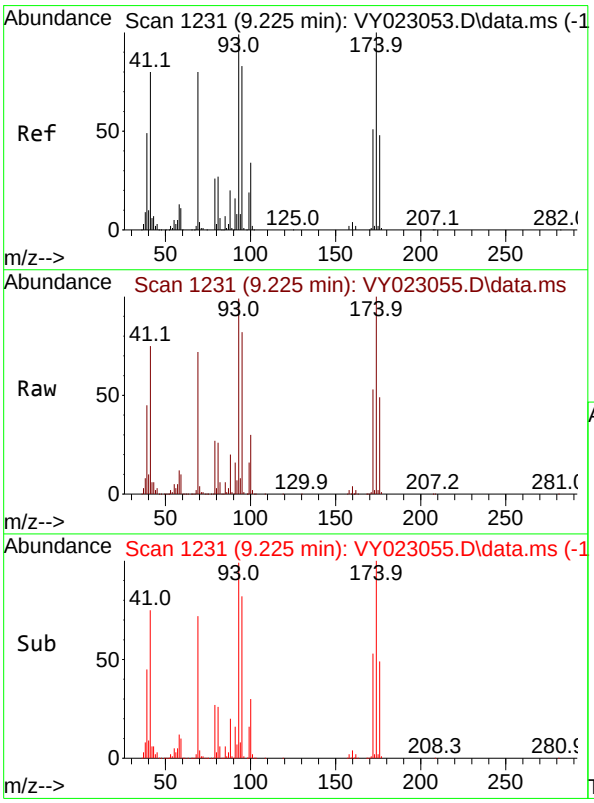
#45
1,2-Dichloropropane
Concen: 154.426 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 822035

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.3	37.9

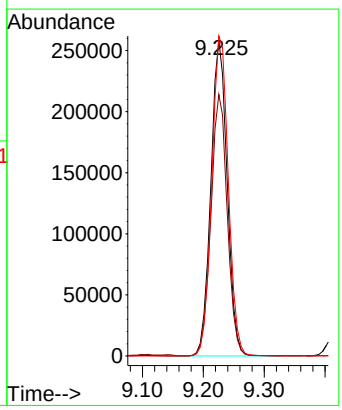


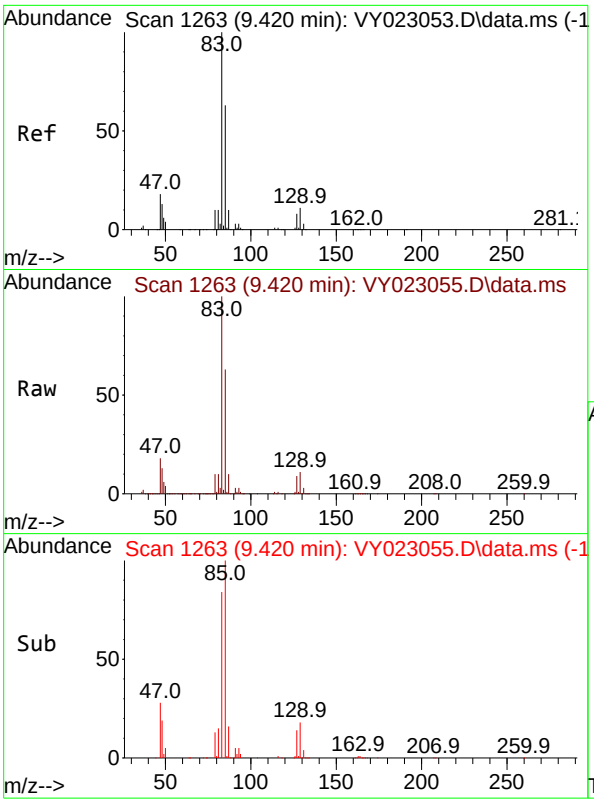


#46
Dibromomethane
Concen: 157.156 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



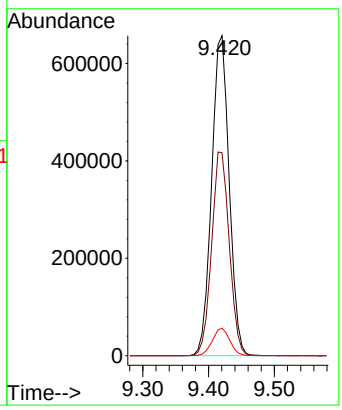


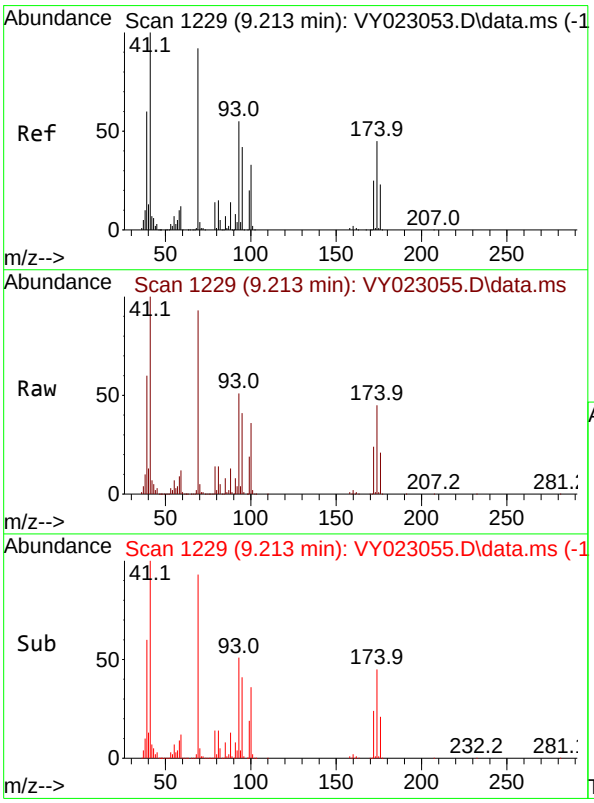
#47
Bromodichloromethane
Concen: 154.884 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

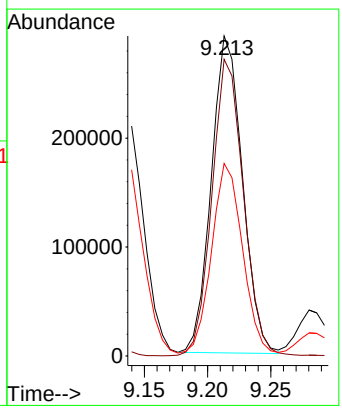


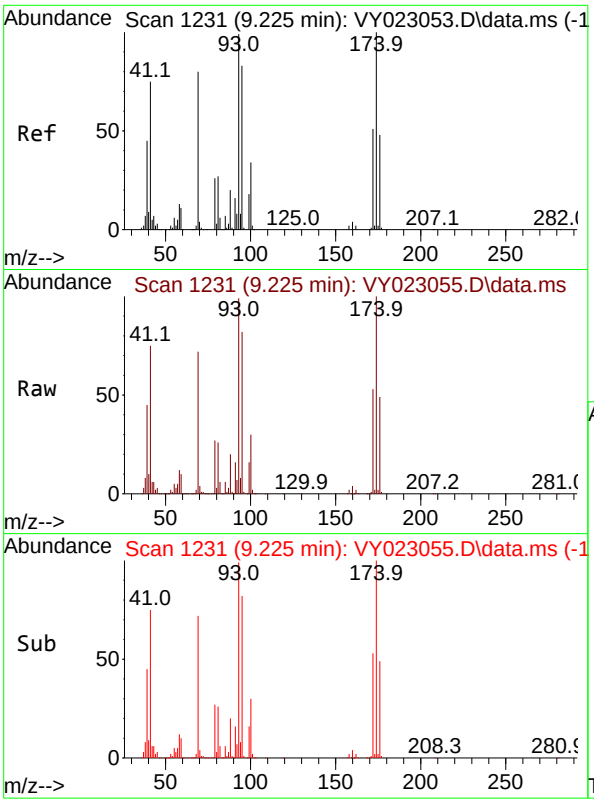


#48
Methyl methacrylate
Concen: 163.144 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



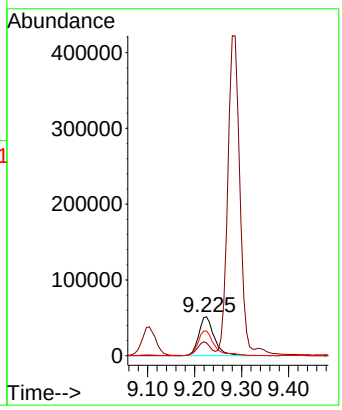


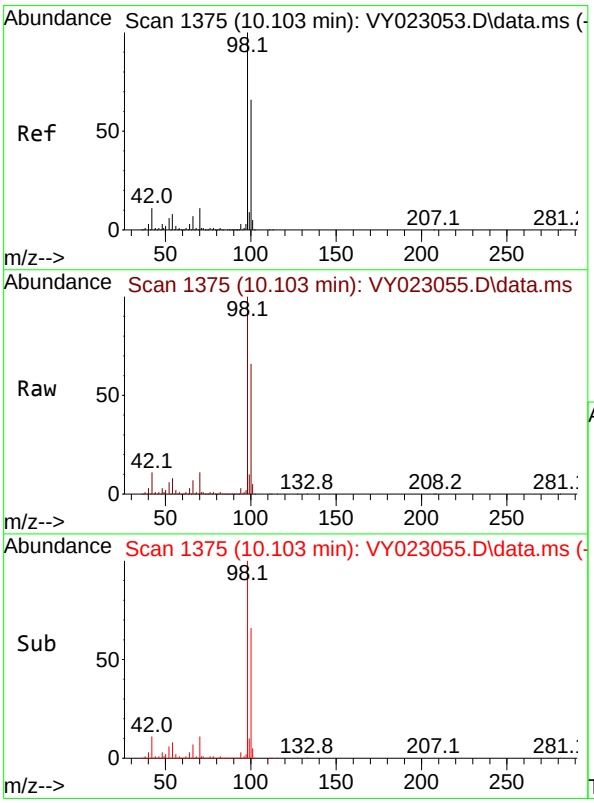
#49
1,4-Dioxane
Concen: 3280.235 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

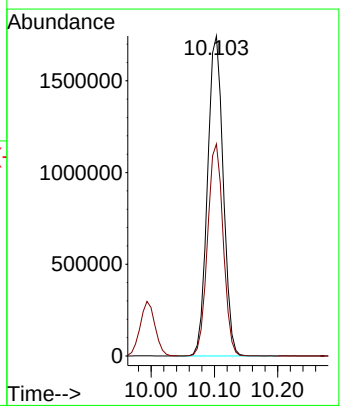


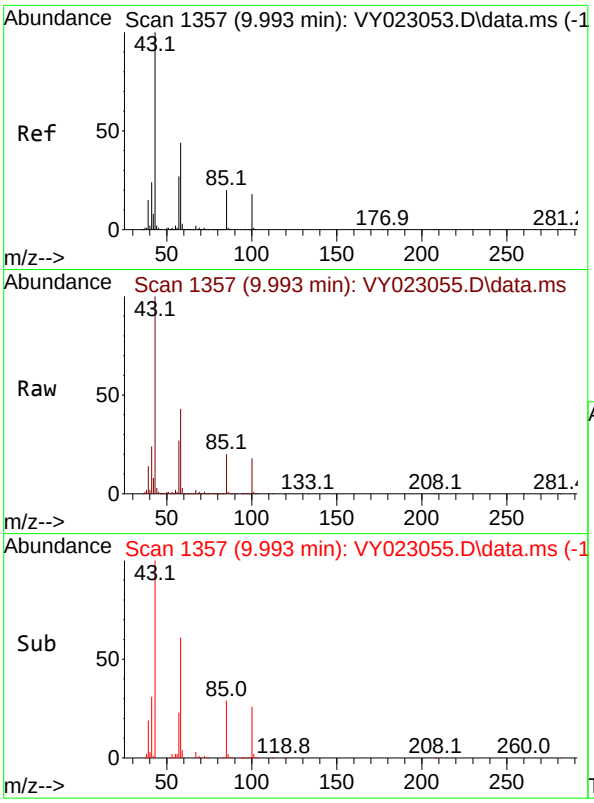


#50
Toluene-d8
Concen: 152.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 98 Resp: 3003834

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.3	78.5



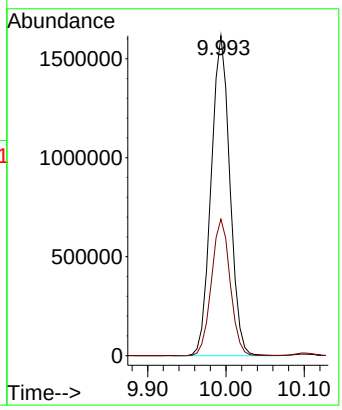


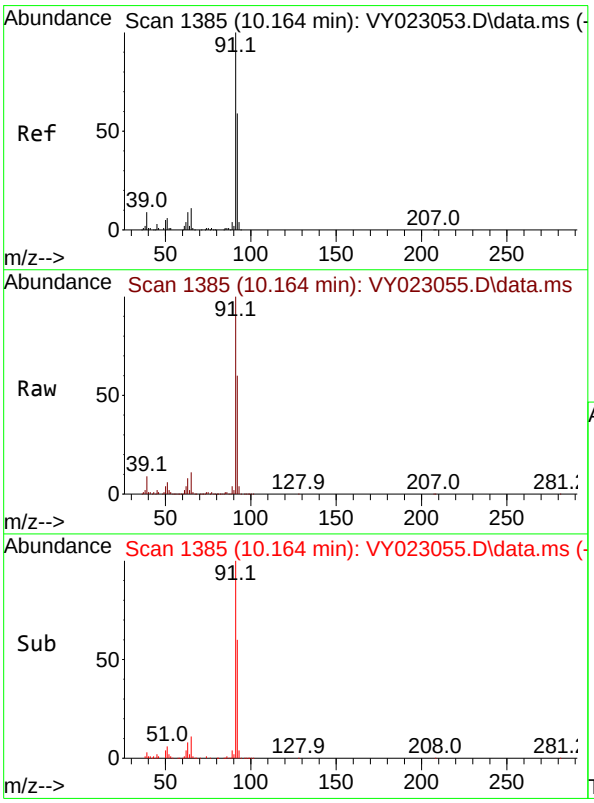
#51
4-Methyl-2-Pentanone
Concen: 814.509 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2677587

Ion	Ratio	Lower	Upper
43	100		
58	42.6	33.5	50.3

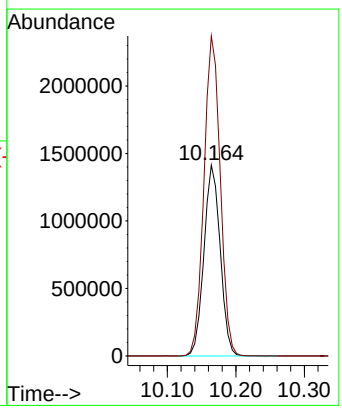


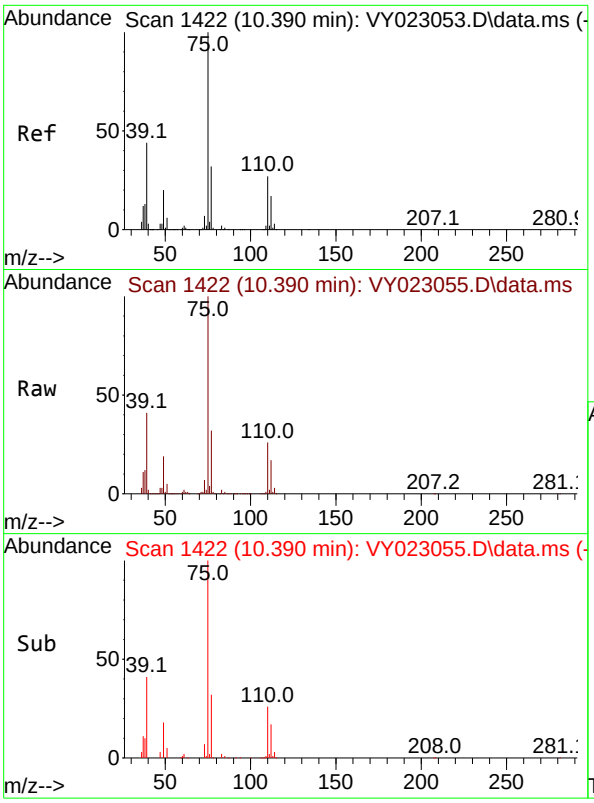


#52
Toluene
Concen: 158.762 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 92 Resp: 2332797

Ion	Ratio	Lower	Upper
92	100		
91	168.8	136.4	204.6



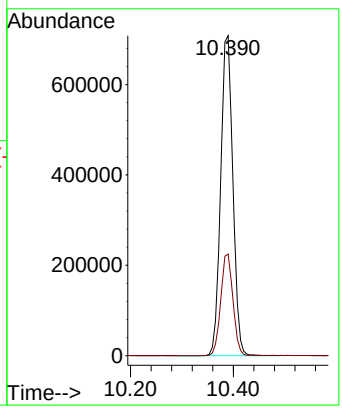


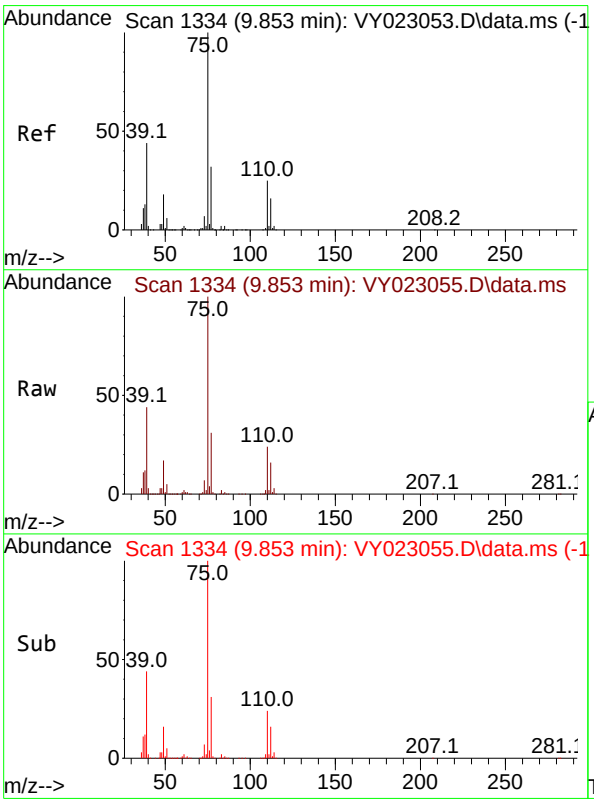
#53
t-1,3-Dichloropropene
Concen: 163.355 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 1162952

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5

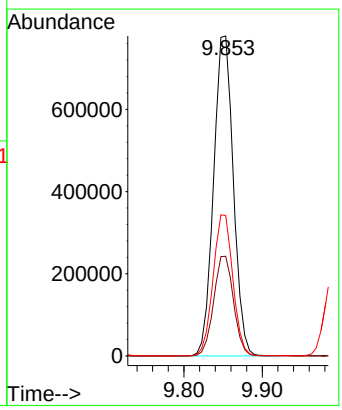


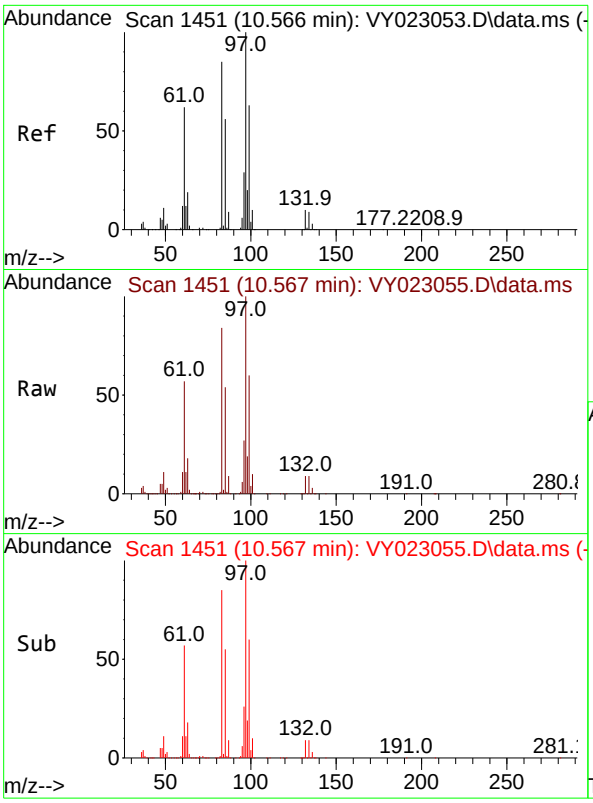


#54
cis-1,3-Dichloropropene
Concen: 162.359 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



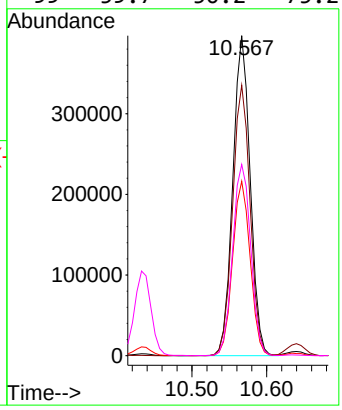


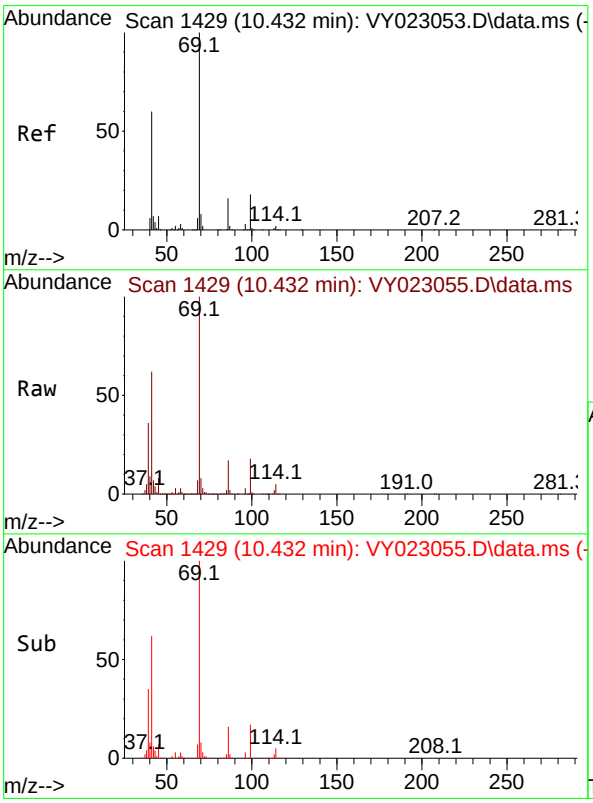
#55
1,1,2-Trichloroethane
Concen: 157.090 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

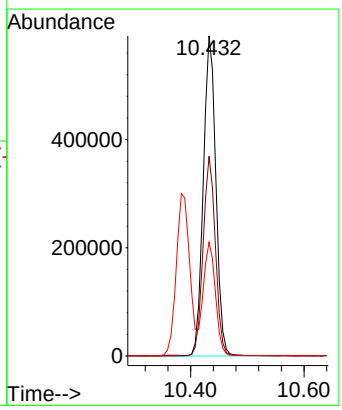


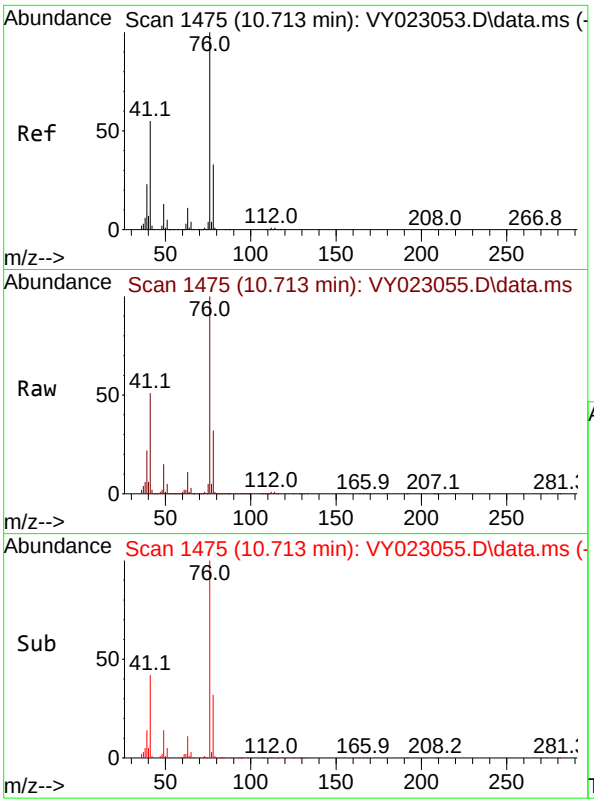


#56
Ethyl methacrylate
Concen: 173.693 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



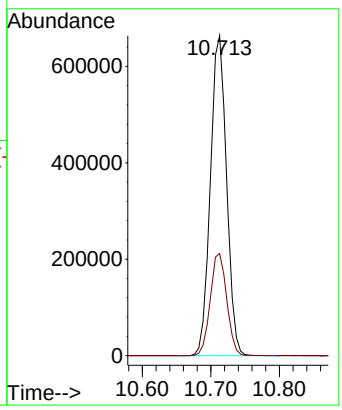


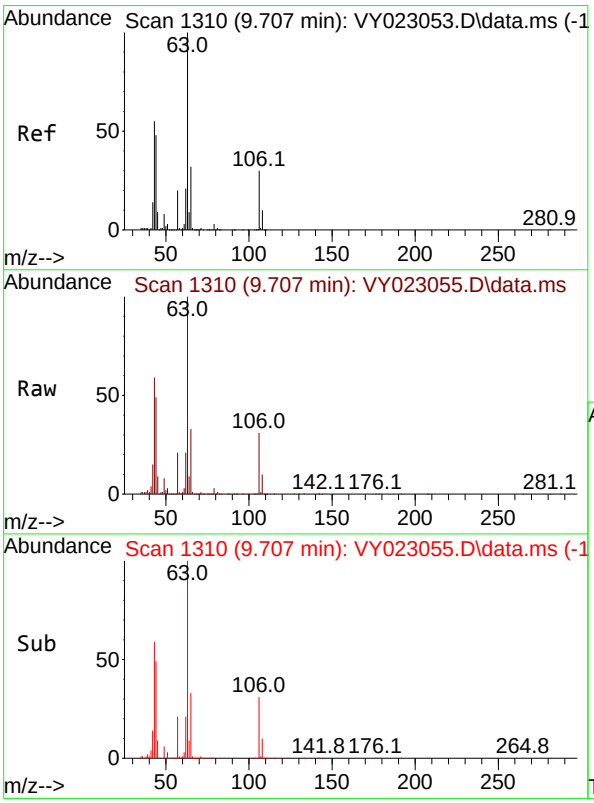
#57
1,3-Dichloropropane
Concen: 156.818 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1087297

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0

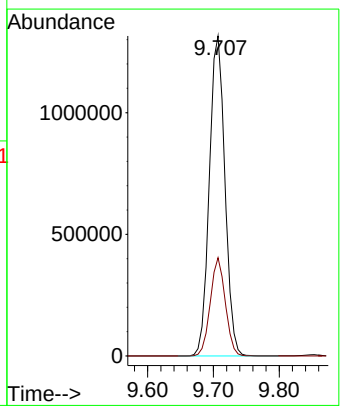


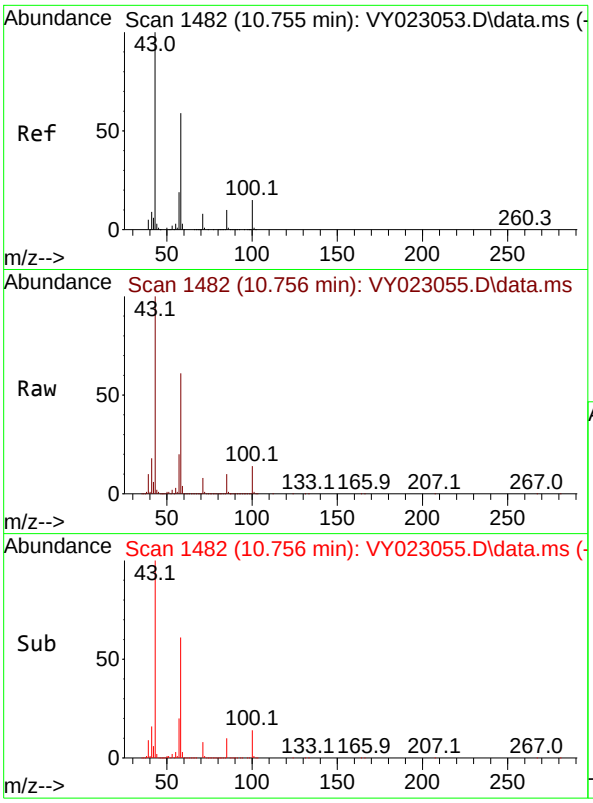


#58
2-Chloroethyl Vinyl ether
Concen: 878.488 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 2167815

Ion	Ratio	Lower	Upper
63	100		
106	29.6	23.2	34.8



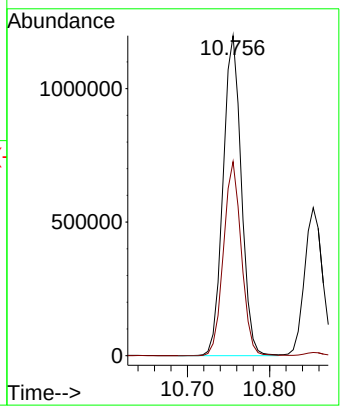


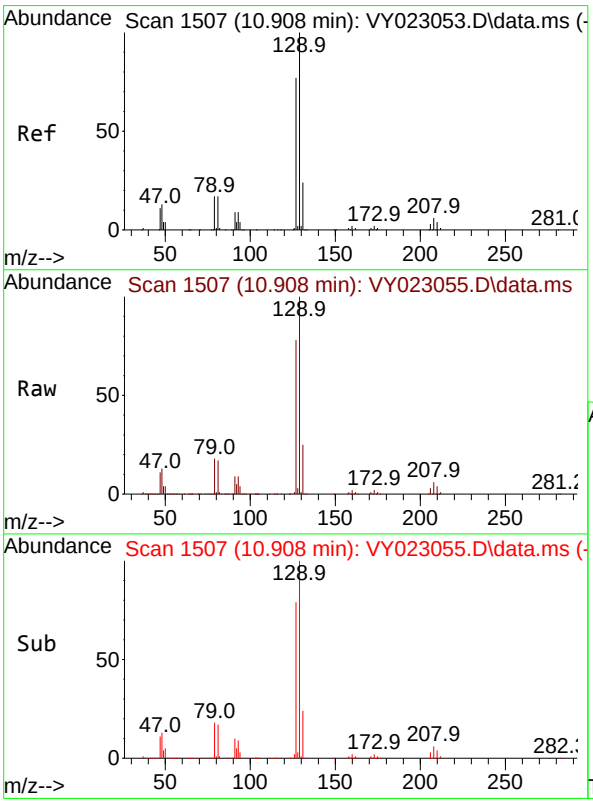
#59
2-Hexanone
Concen: 825.606 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1848093

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

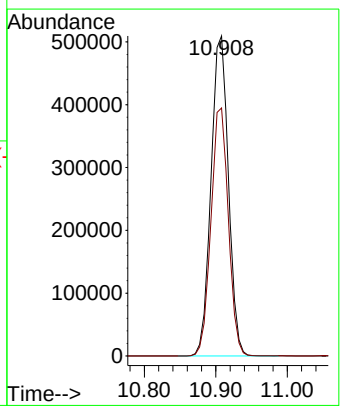


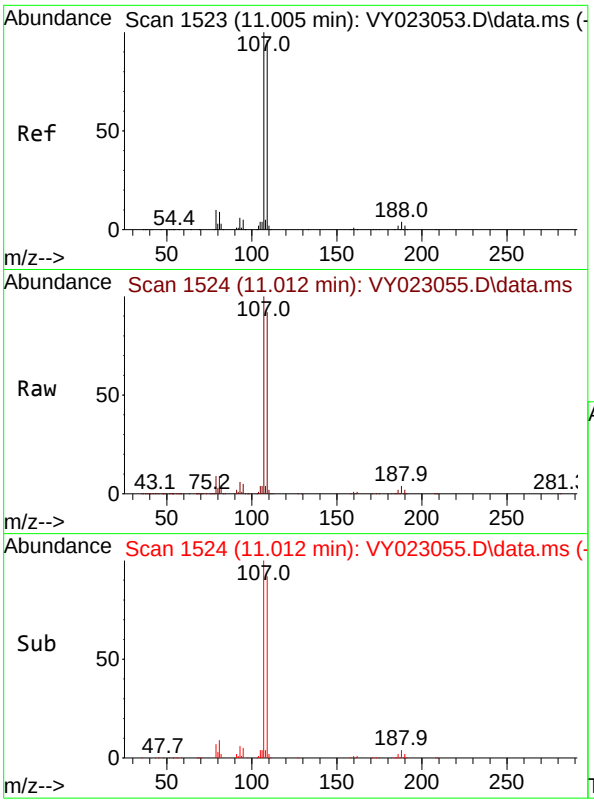


#60
Dibromochloromethane
Concen: 159.454 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:129 Resp: 860181

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5



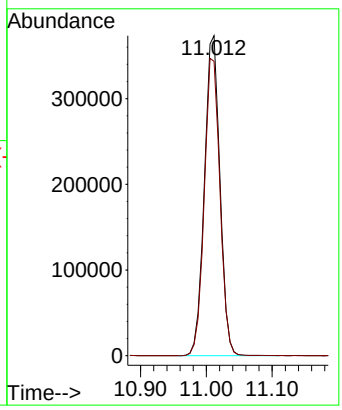


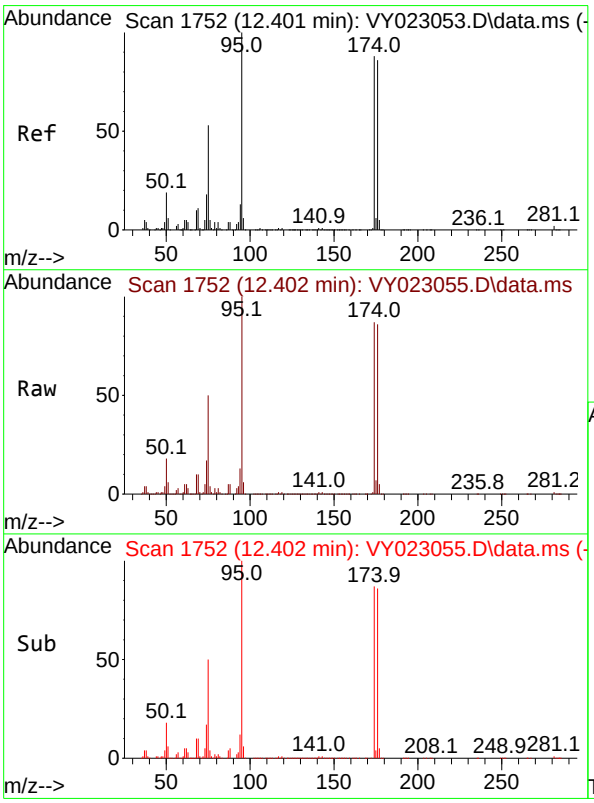
#61
1,2-Dibromoethane
Concen: 159.546 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 613069

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.6	113.4

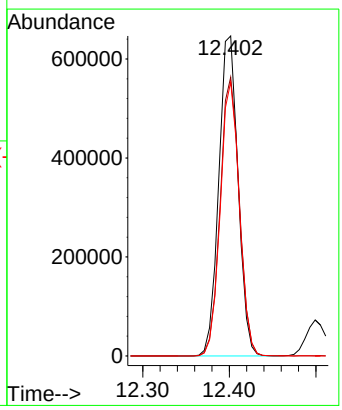


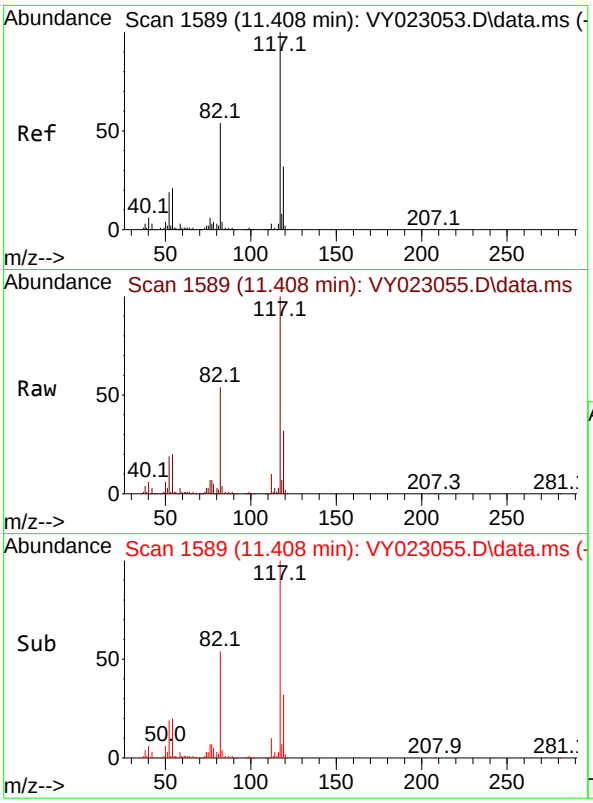


#62
4-Bromofluorobenzene
Concen: 157.326 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



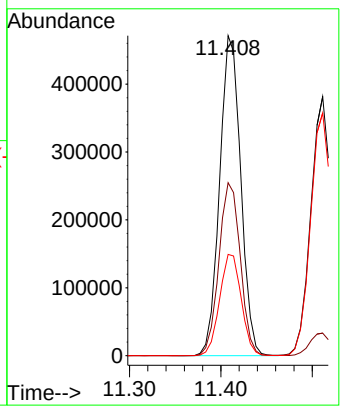


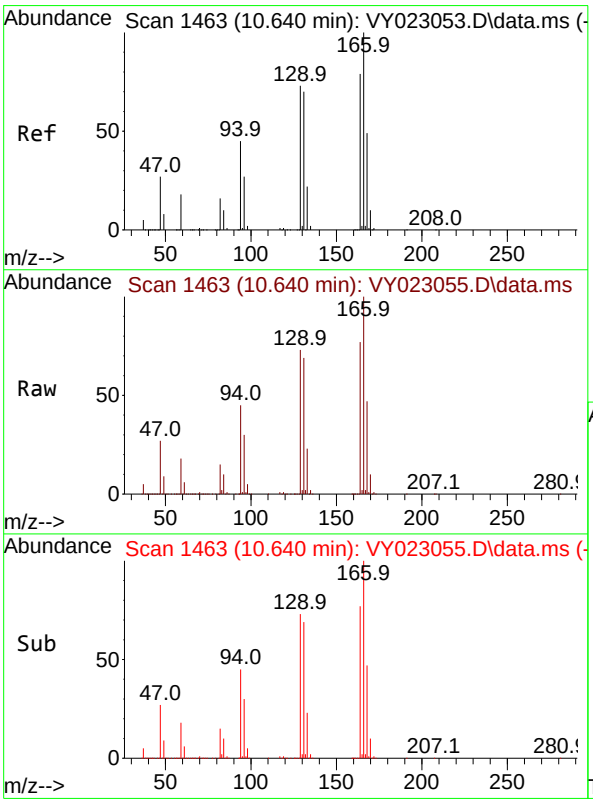
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

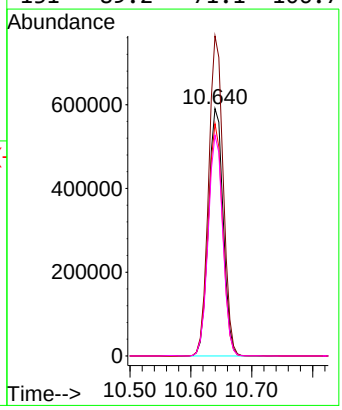


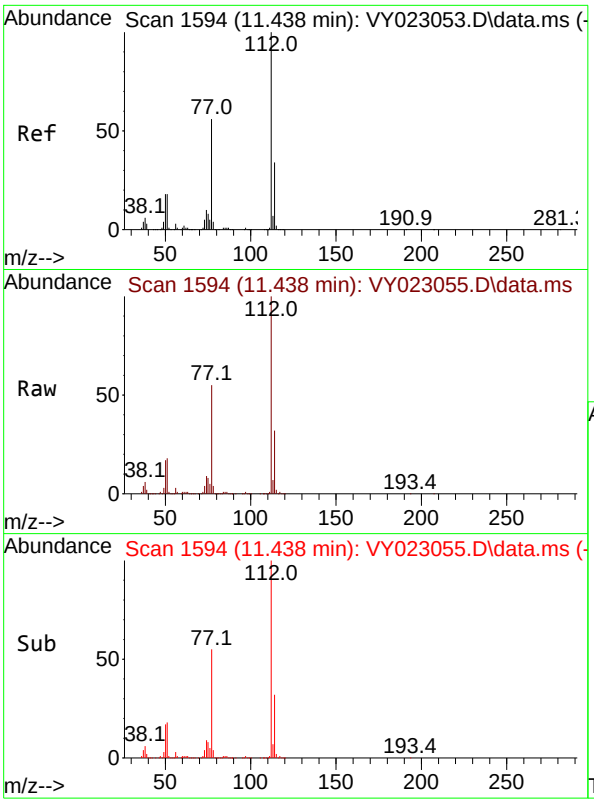


#64
Tetrachloroethene
Concen: 146.682 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



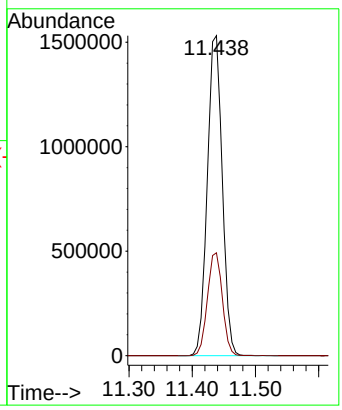


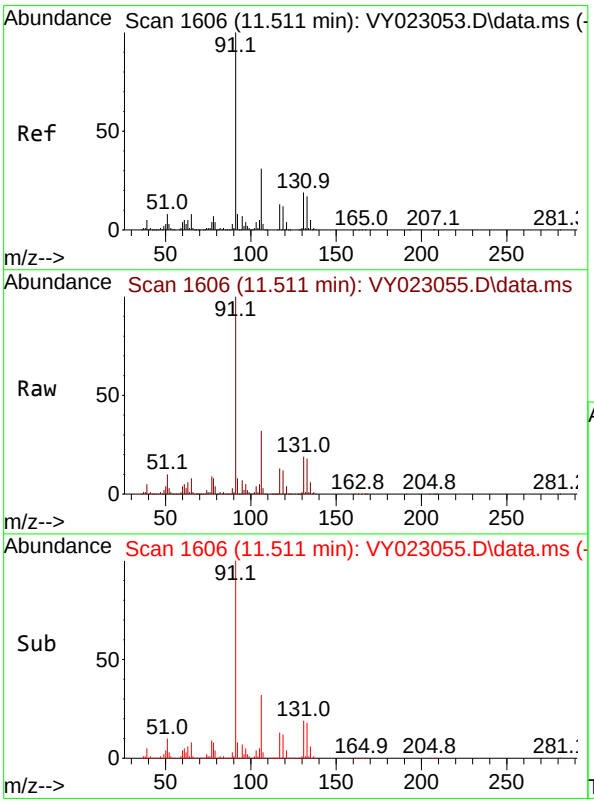
#65
Chlorobenzene
Concen: 154.514 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 2520874

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

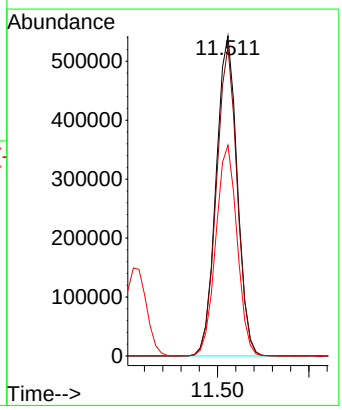


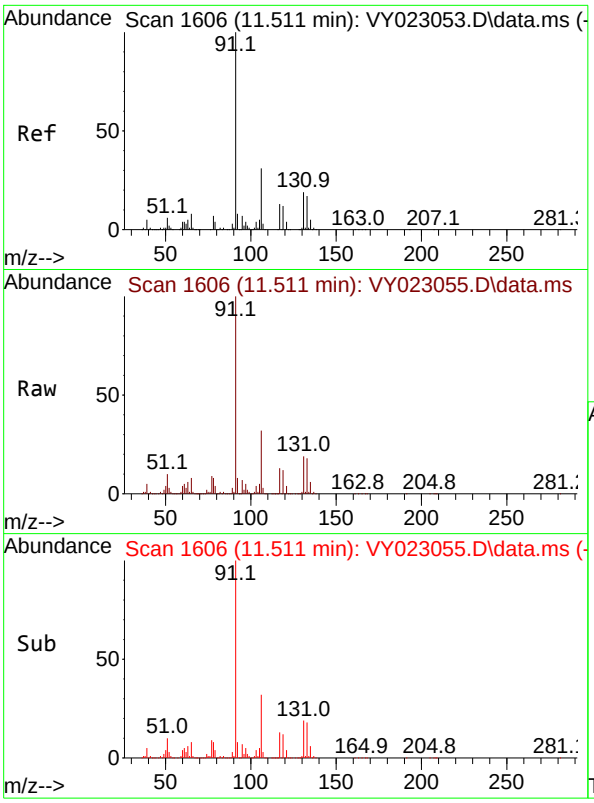


#66
1,1,1,2-Tetrachloroethane
Concen: 157.304 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



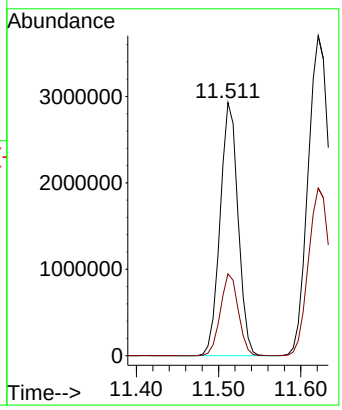


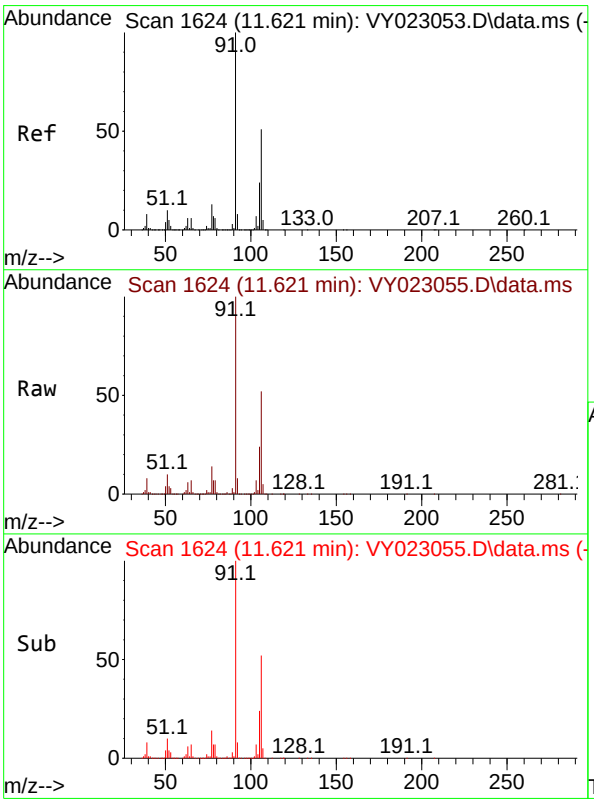
#67
Ethyl Benzene
Concen: 158.093 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 4438665

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.0	37.4

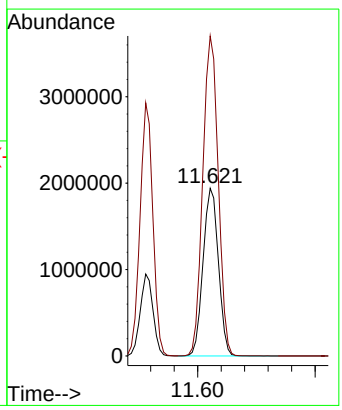


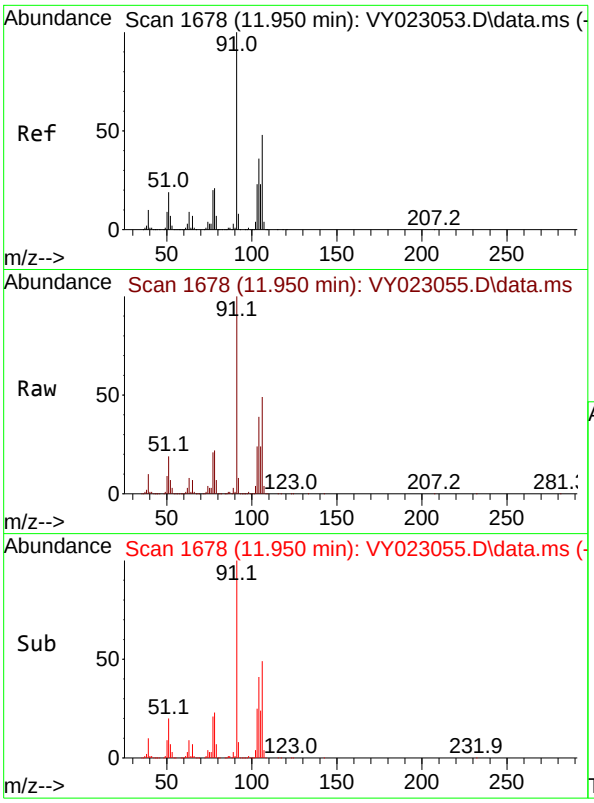


#68
m/p-Xylenes
Concen: 320.251 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:106 Resp: 3511726

Ion	Ratio	Lower	Upper
106	100		
91	192.1	158.6	238.0



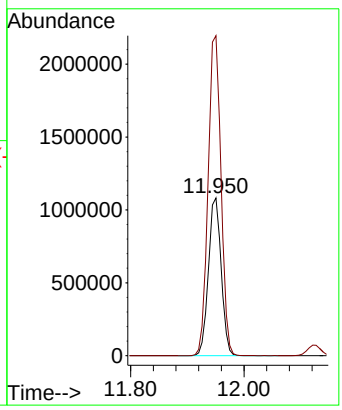


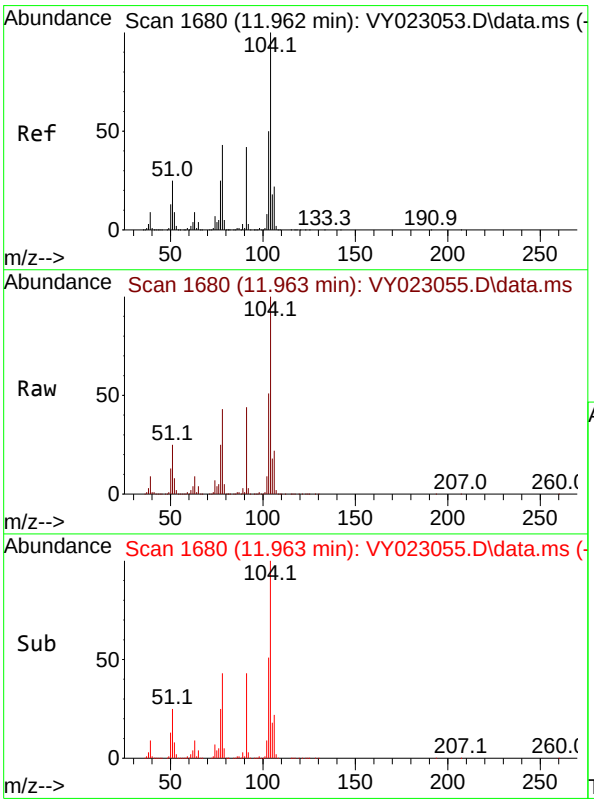
#69
o-Xylene
Concen: 163.941 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 1683720

Ion	Ratio	Lower	Upper
106	100		
91	205.5	103.2	309.4

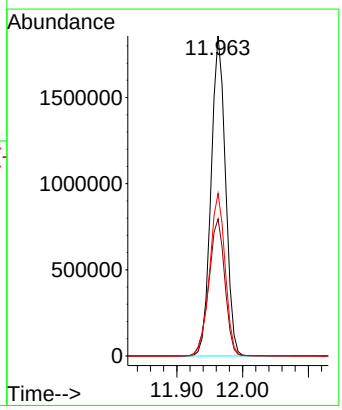


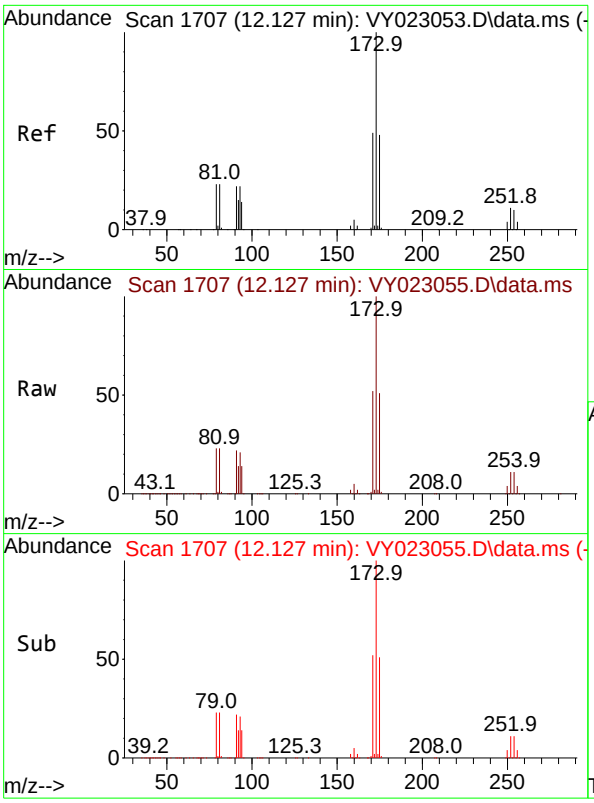


#70
Styrene
Concen: 169.475 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



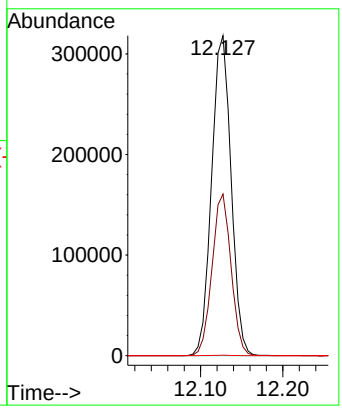


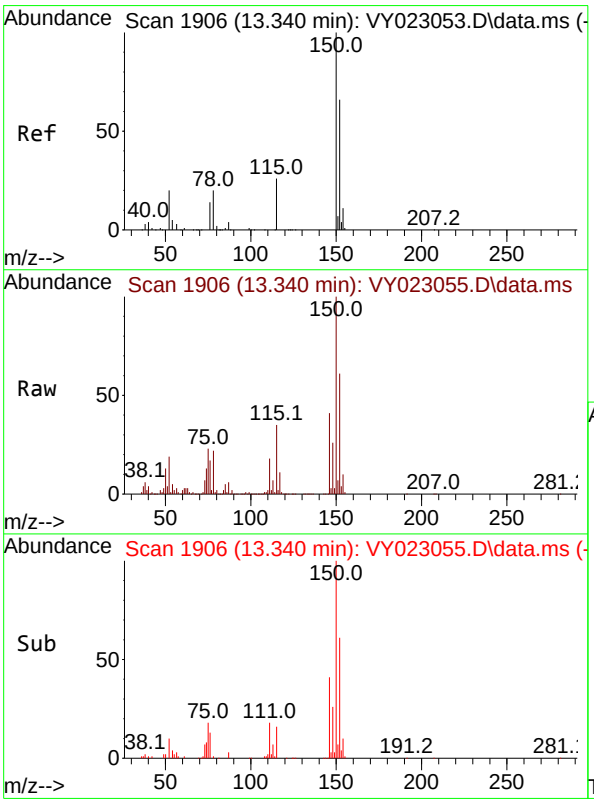
#71
Bromoform
Concen: 161.778 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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#

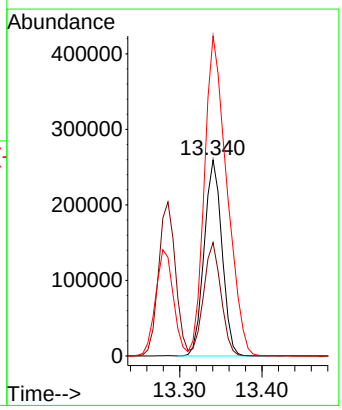


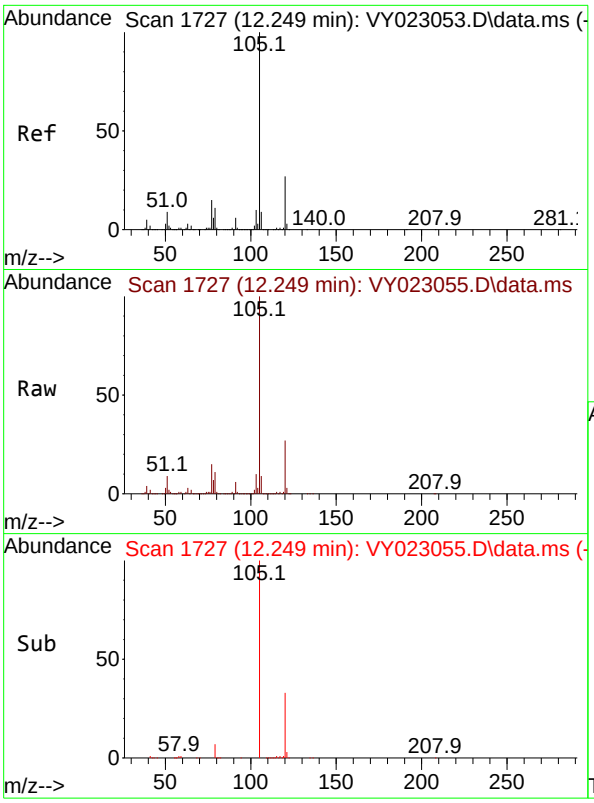


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



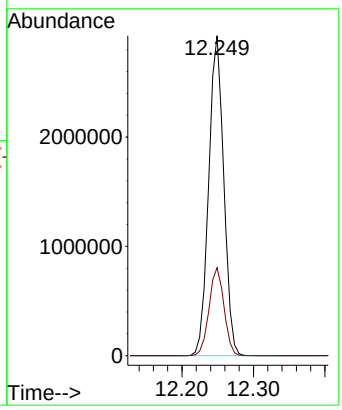


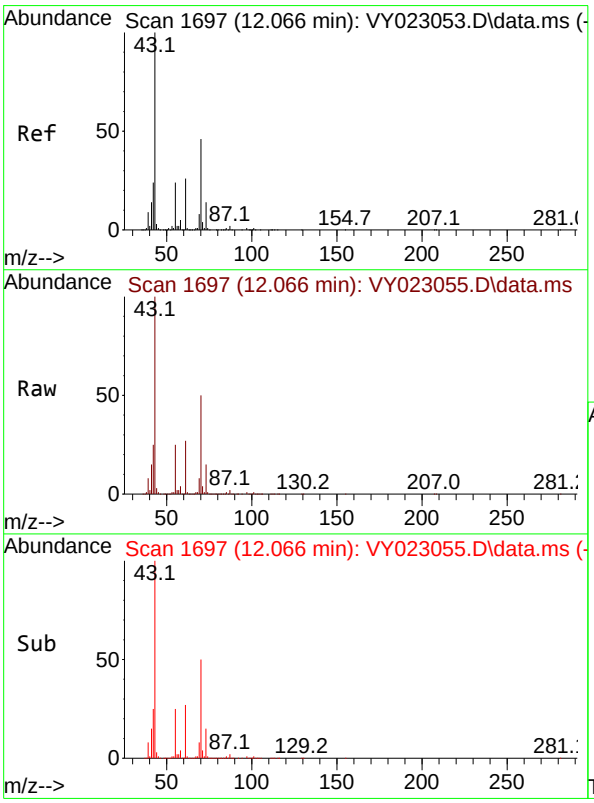
#73
Isopropylbenzene
Concen: 155.145 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 4269945

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.2

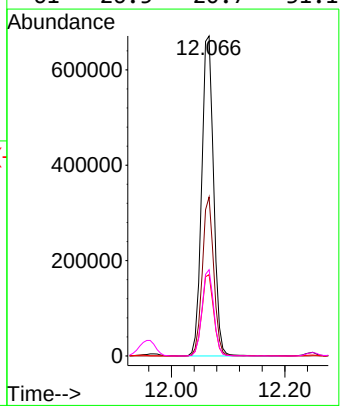


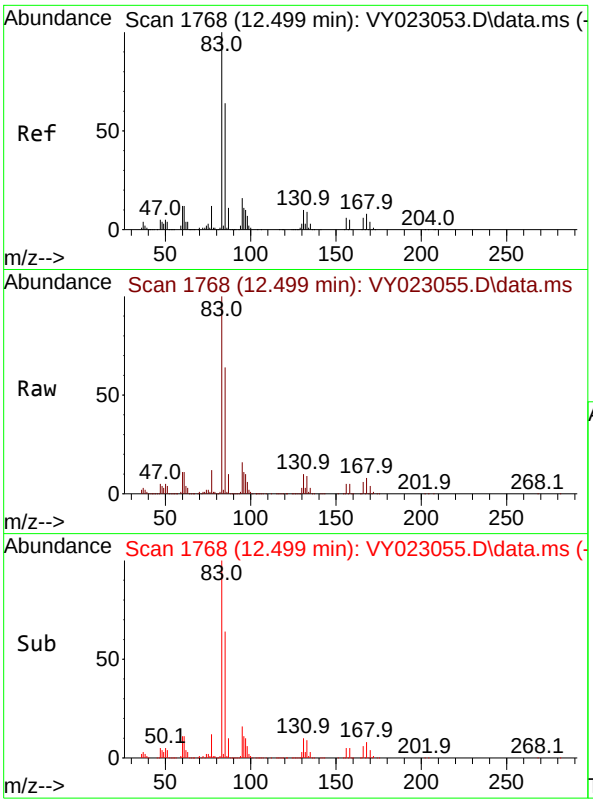


#74
N-amyl acetate
Concen: 168.265 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



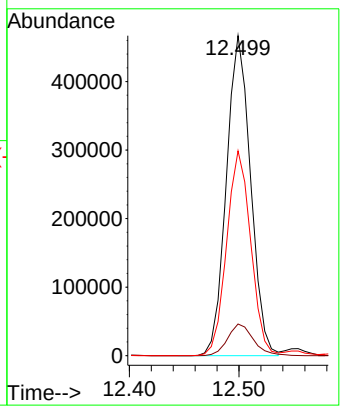


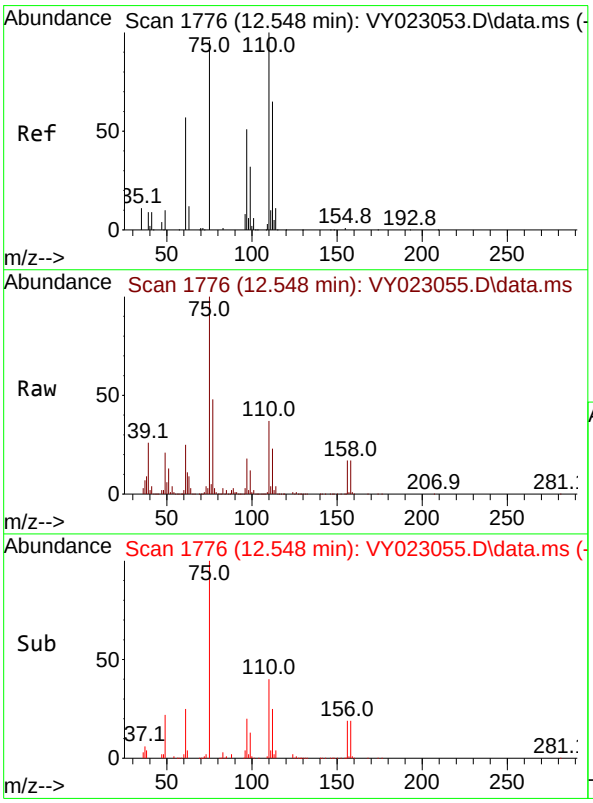
#75
1,1,2,2-Tetrachloroethane
Concen: 152.686 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

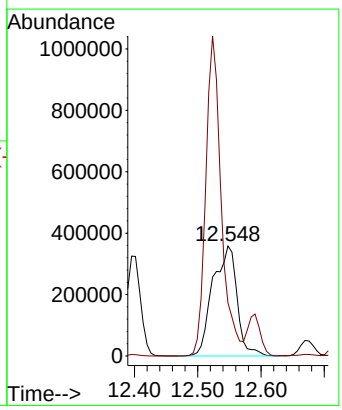


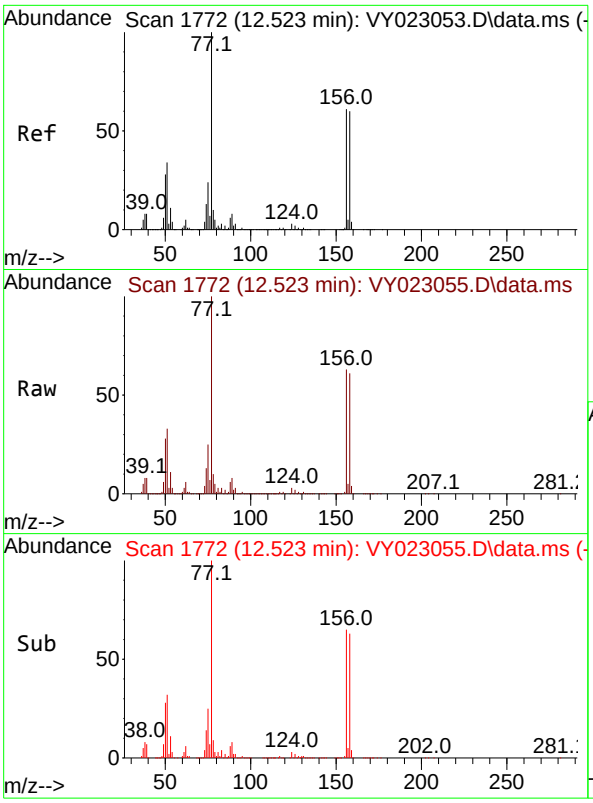


#76
1,2,3-Trichloropropane
Concen: 252.416 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 950569

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



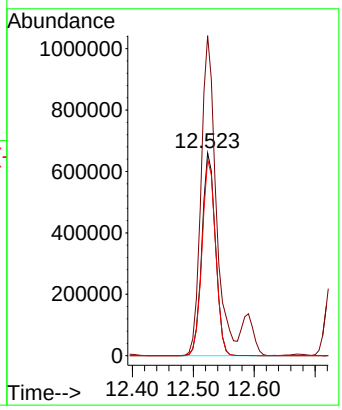


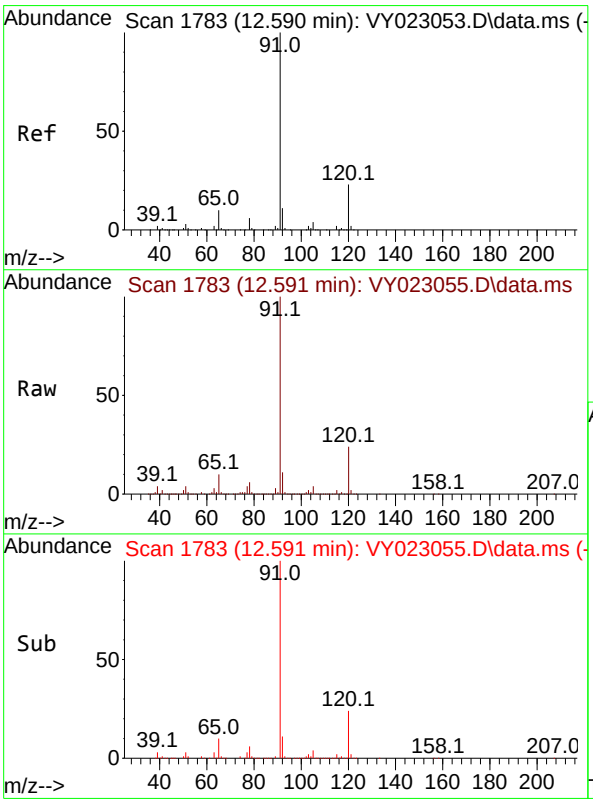
#77
Bromobenzene
Concen: 155.568 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

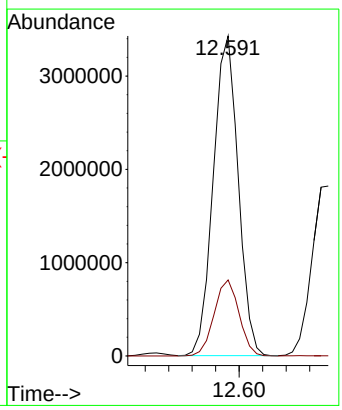


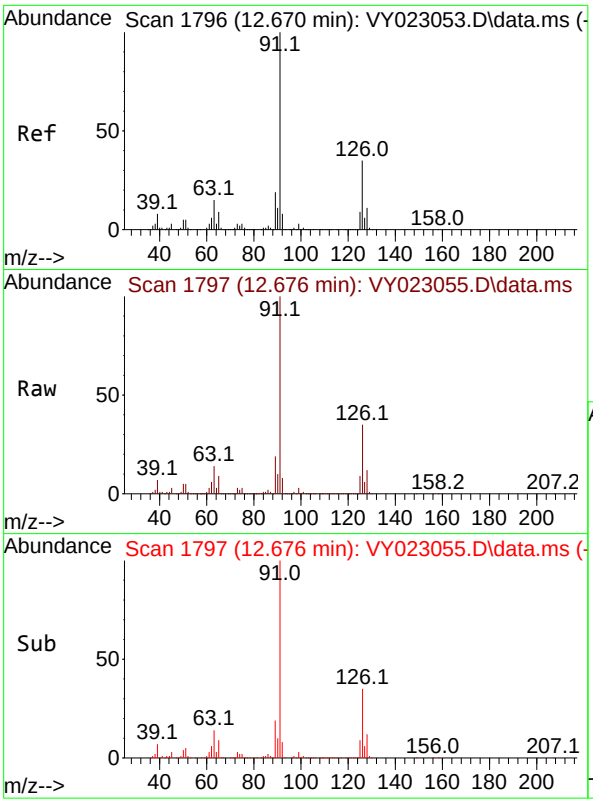


#78
n-propylbenzene
Concen: 154.058 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 5048012

Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.5	34.5



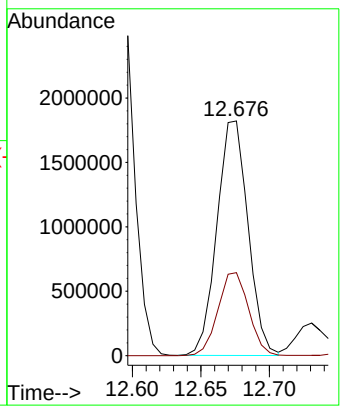


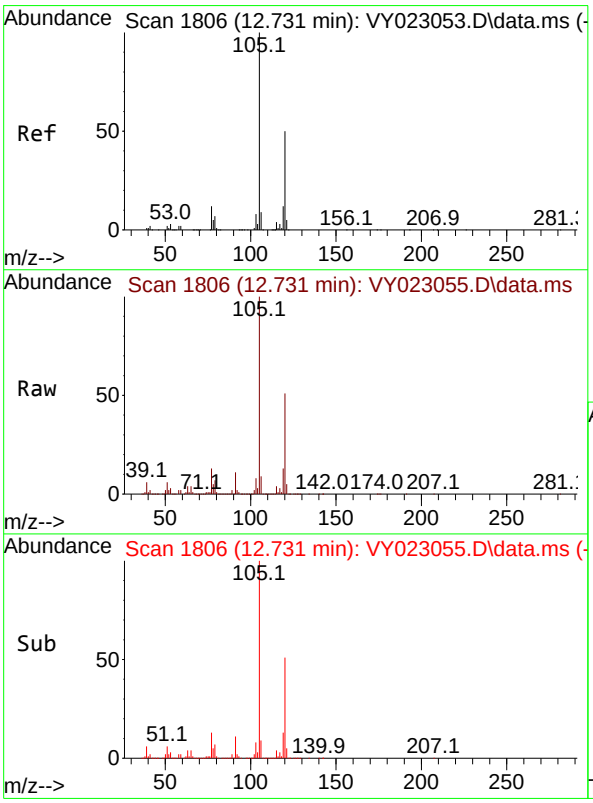
#79
2-Chlorotoluene
Concen: 153.331 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2878647

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3

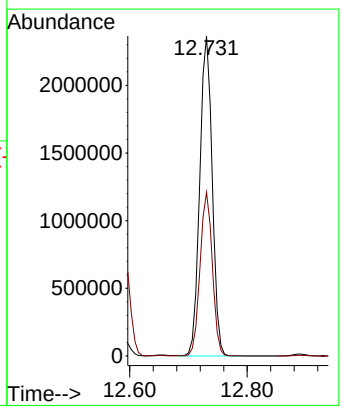


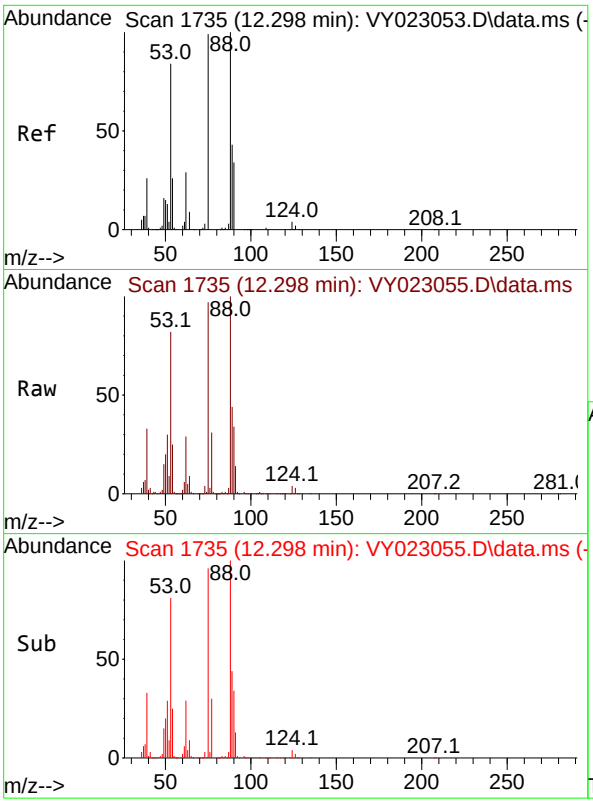


#80
1,3,5-Trimethylbenzene
Concen: 155.973 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3469329

Ion	Ratio	Lower	Upper
105	100		
120	50.4	24.8	74.4



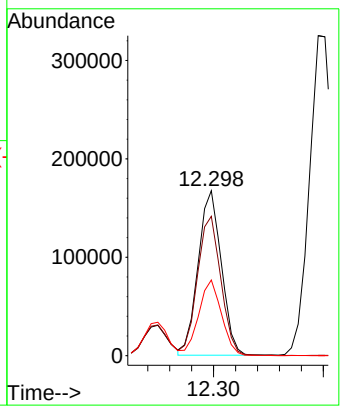


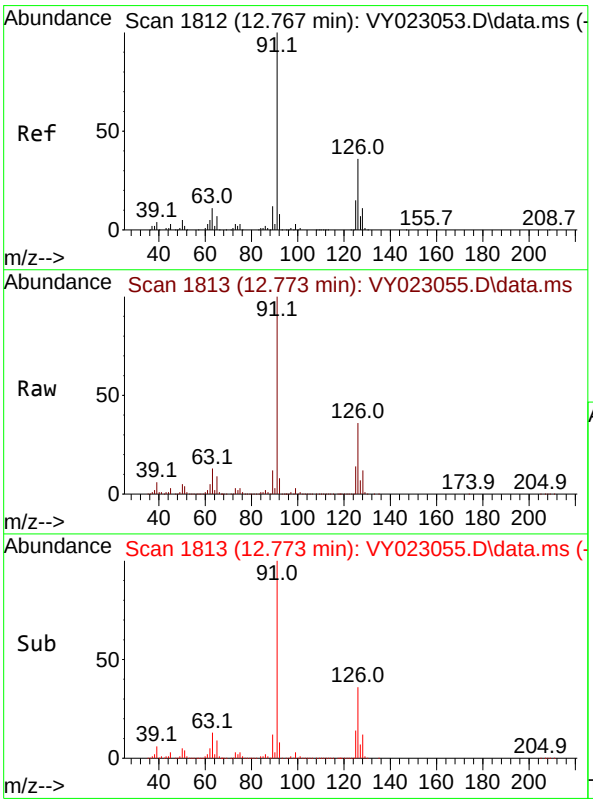
#81
trans-1,4-Dichloro-2-butene
Concen: 158.203 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

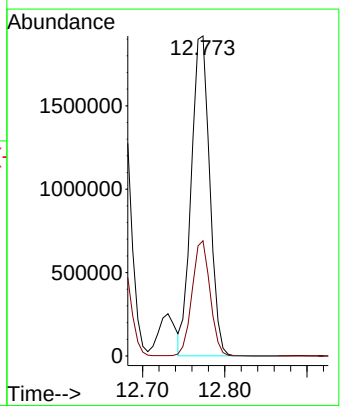


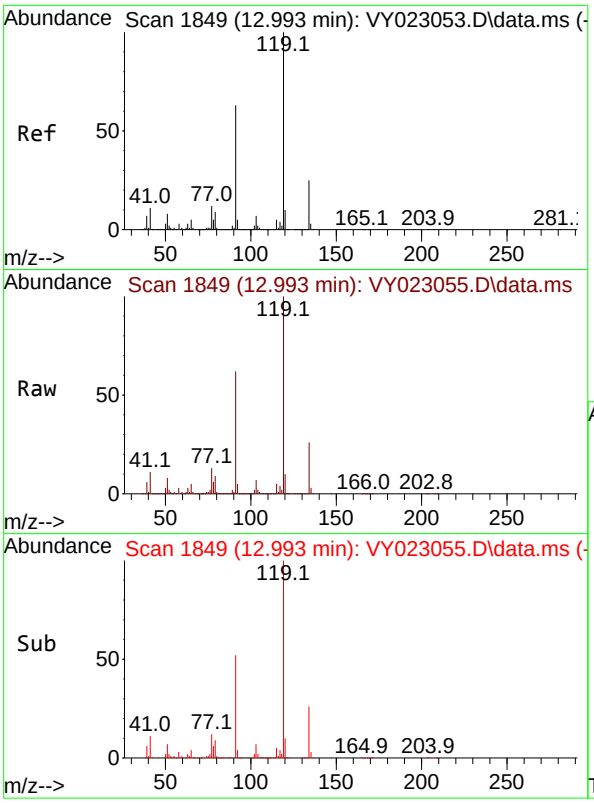


#82
4-Chlorotoluene
Concen: 153.063 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 2981042

Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.3	52.0



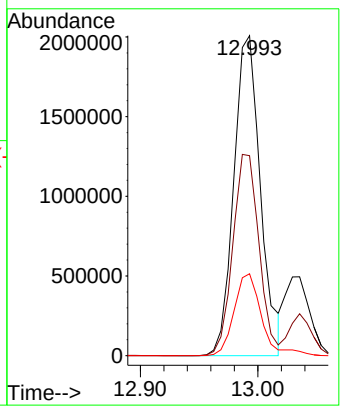


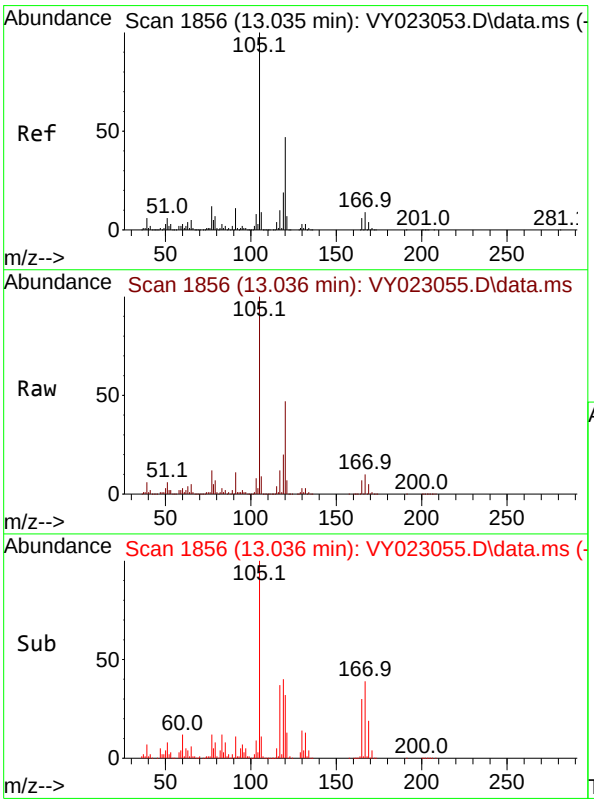
#83
tert-Butylbenzene
Concen: 157.371 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

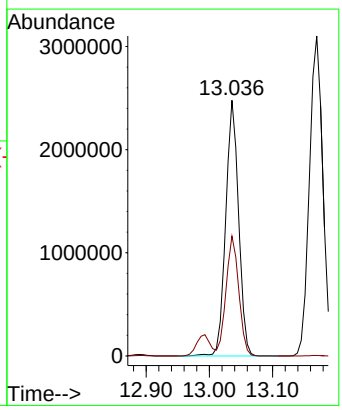


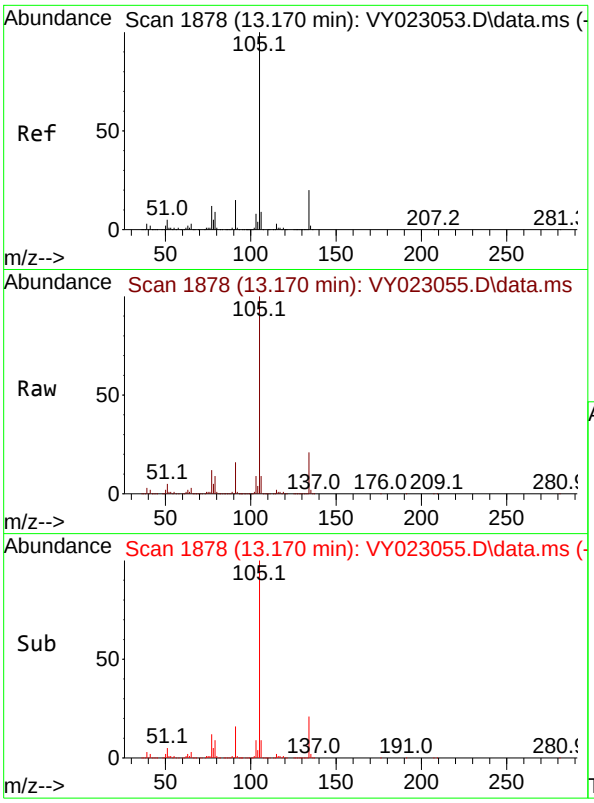


#84
1,2,4-Trimethylbenzene
Concen: 158.143 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3501626

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



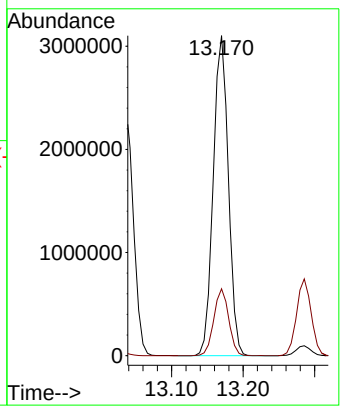


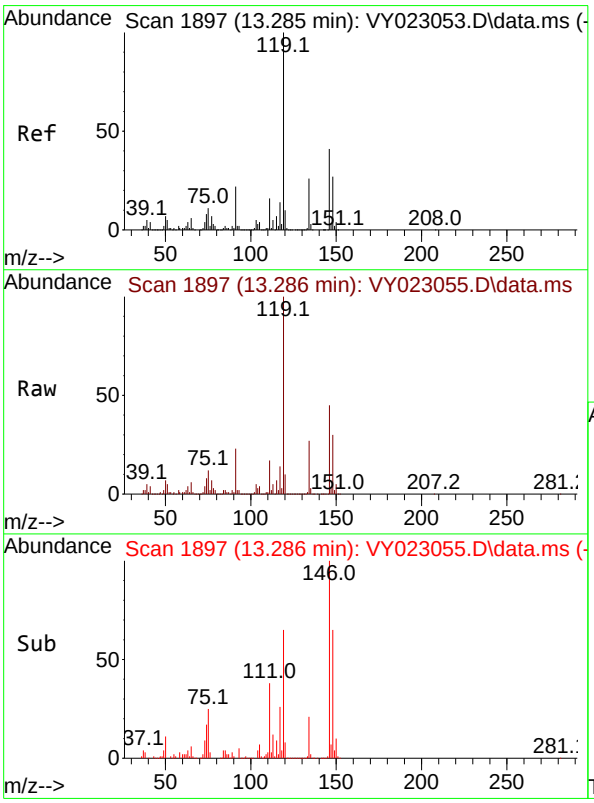
#85
sec-Butylbenzene
Concen: 153.897 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 4541629

Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.2	30.4

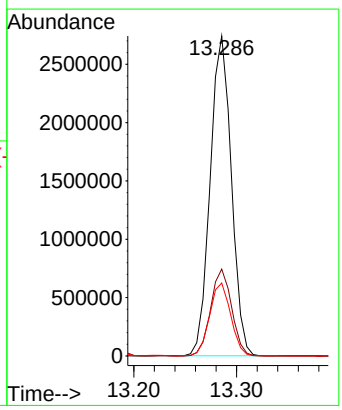


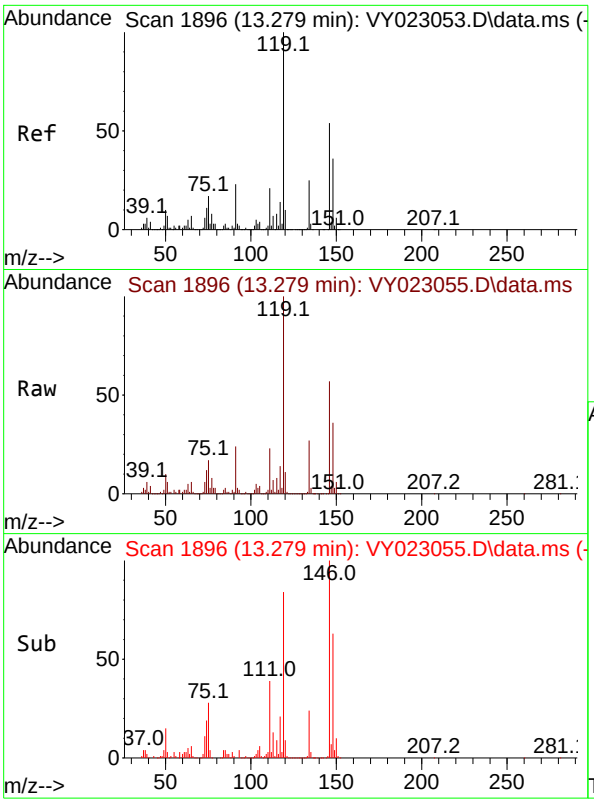


#86
p-Isopropyltoluene
Concen: 159.987 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



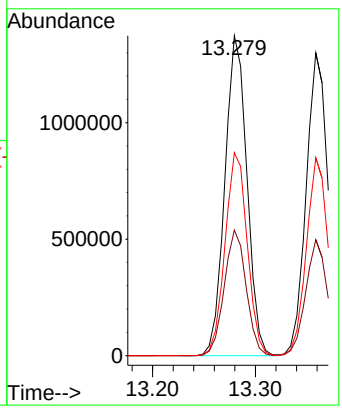


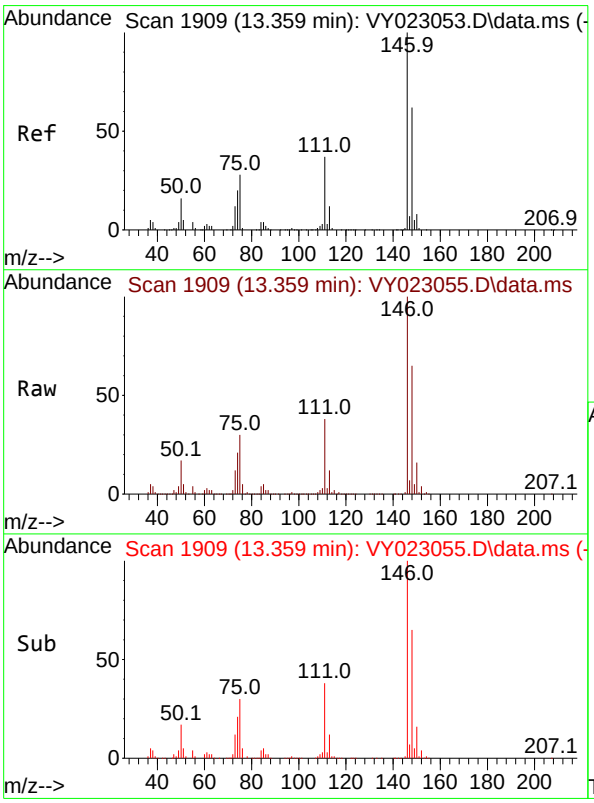
#87
1,3-Dichlorobenzene
Concen: 158.251 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

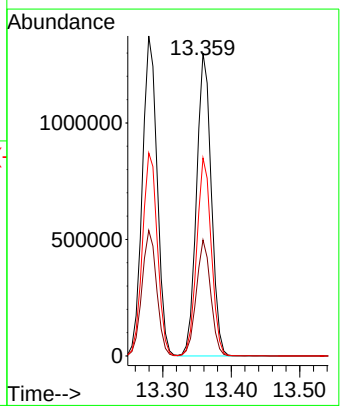


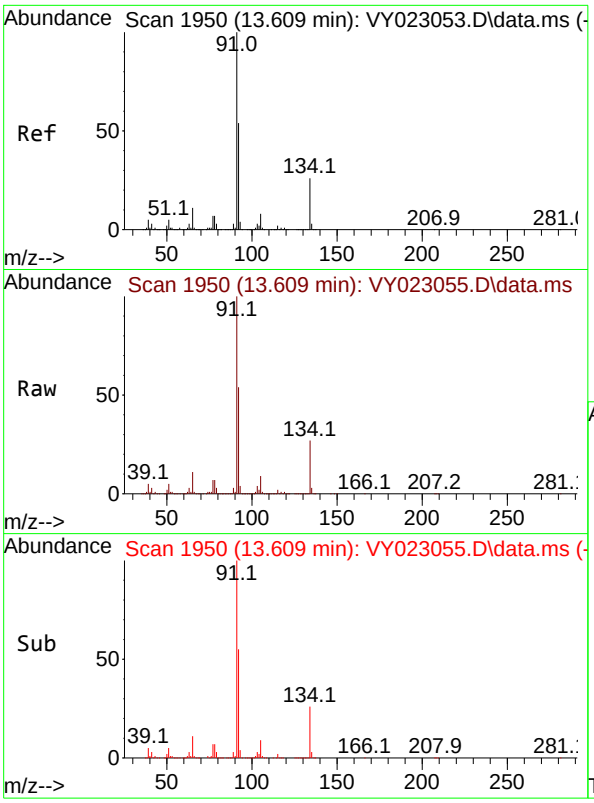


#88
1,4-Dichlorobenzene
Concen: 151.172 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



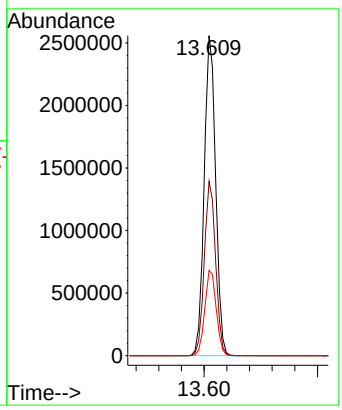


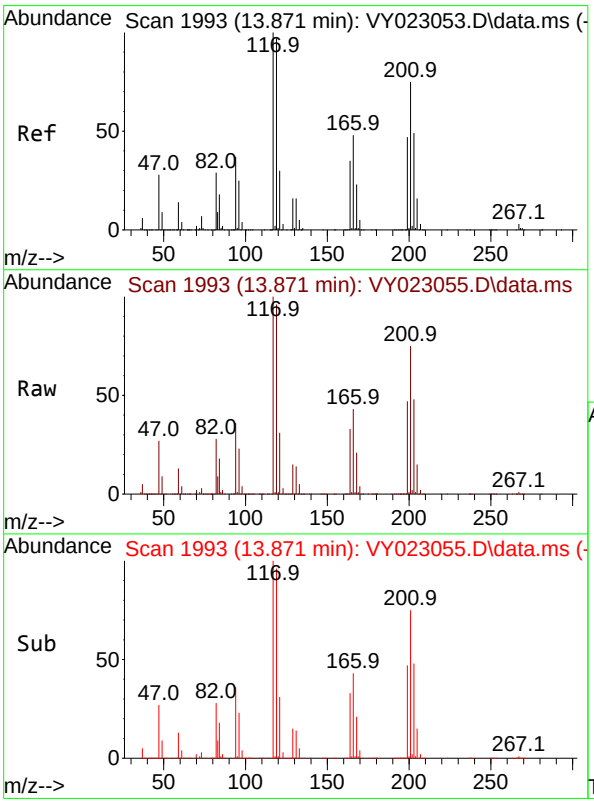
#89
n-Butylbenzene
Concen: 159.048 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

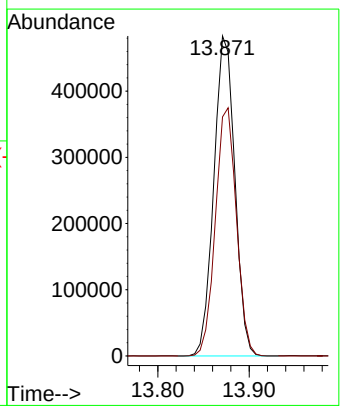


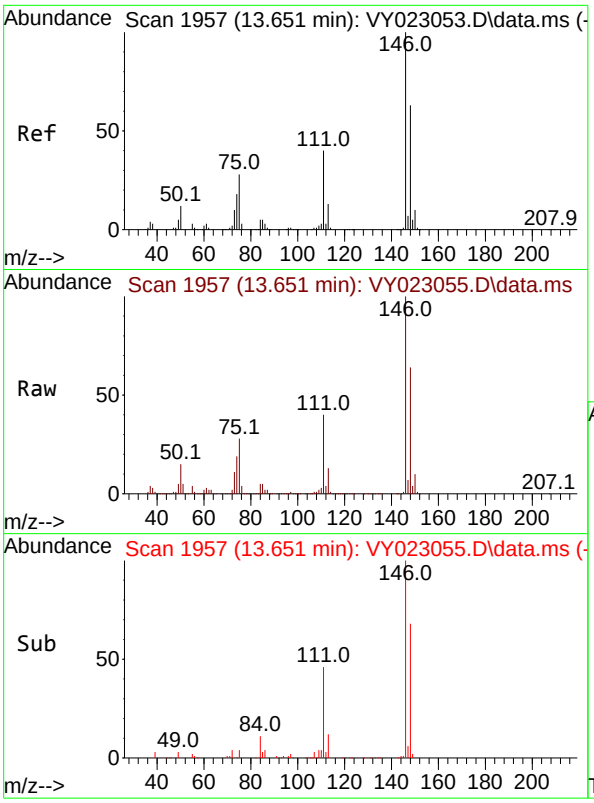


#90
Hexachloroethane
Concen: 154.073 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 772603

Ion	Ratio	Lower	Upper
117	100		
201	77.6	38.4	115.1



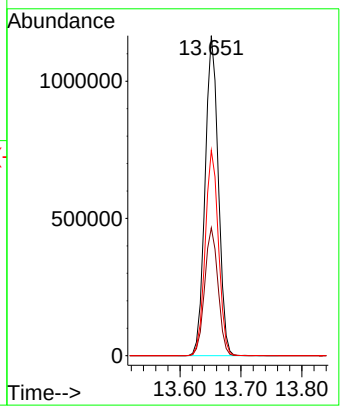


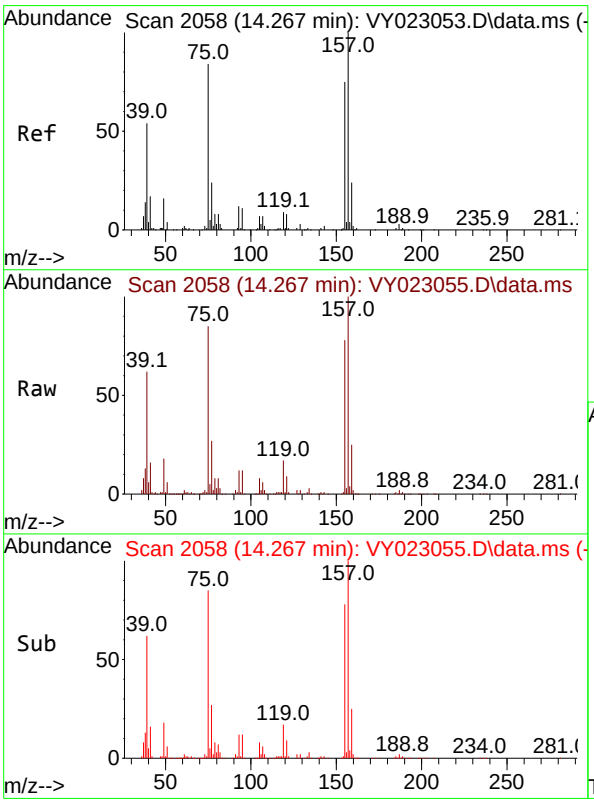
#91
1,2-Dichlorobenzene
Concen: 154.469 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

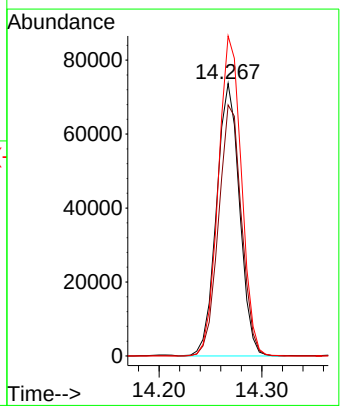


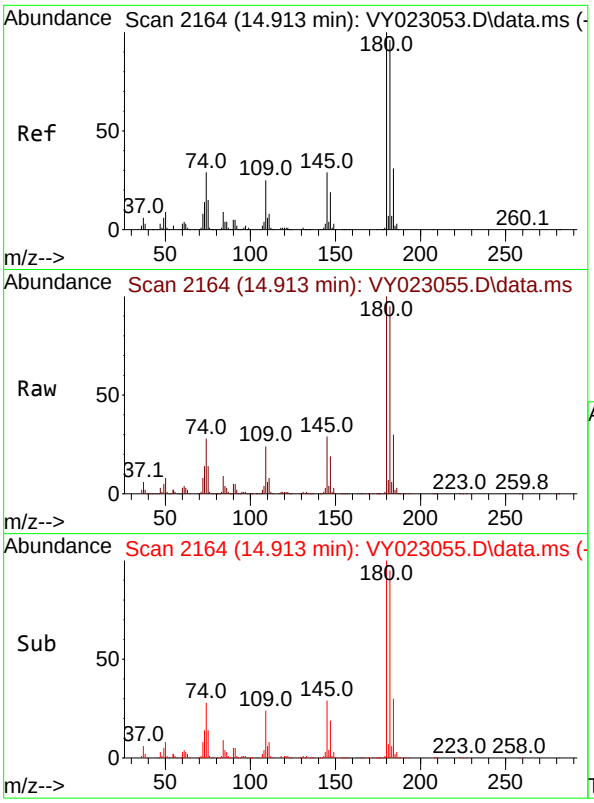


#92
1,2-Dibromo-3-Chloropropane
Concen: 156.498 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



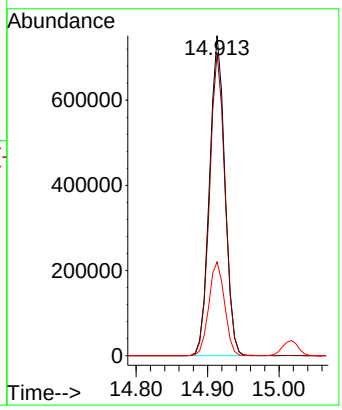


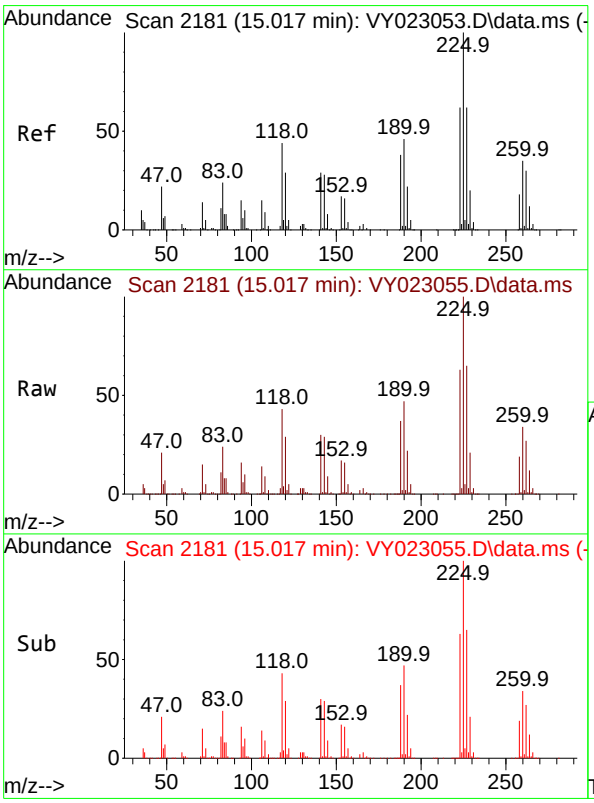
#93
1,2,4-Trichlorobenzene
Concen: 166.397 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

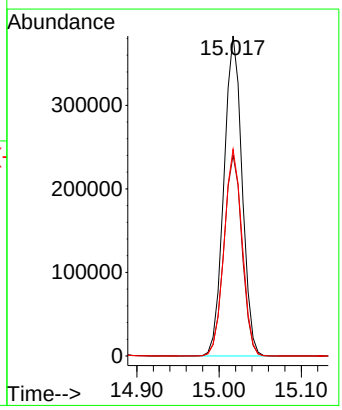


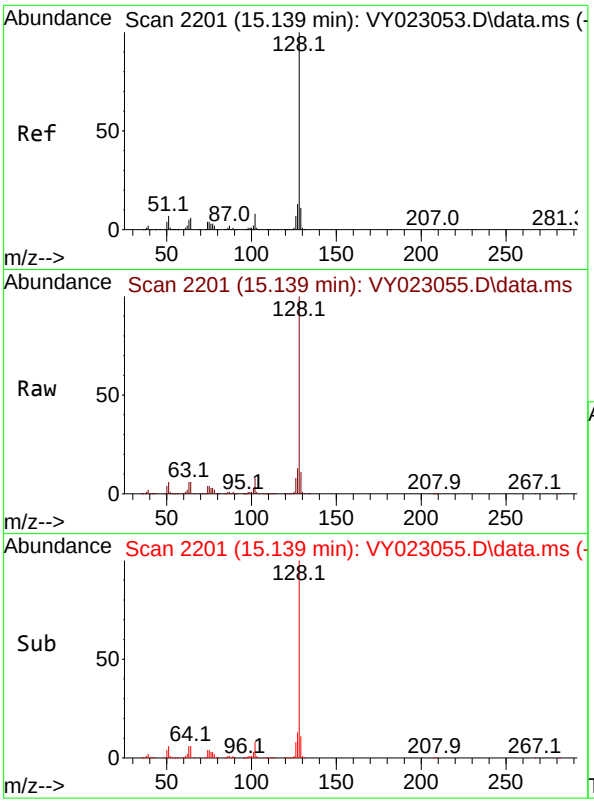


#94
Hexachlorobutadiene
Concen: 149.352 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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



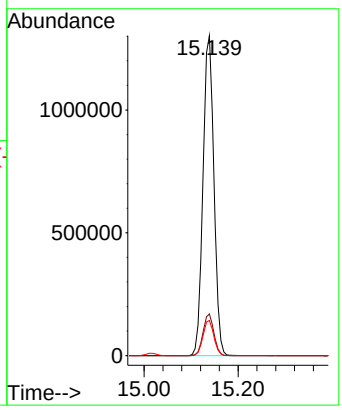


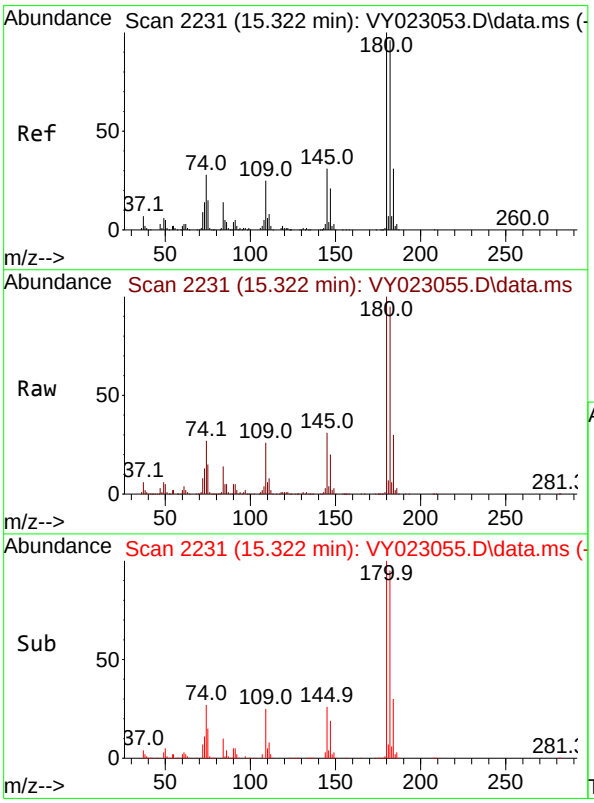
#95
Naphthalene
Concen: 182.954 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

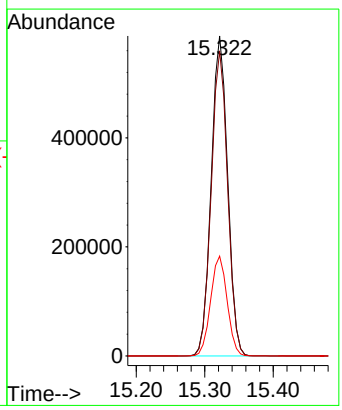




#96
1,2,3-Trichlorobenzene
Concen: 168.557 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

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

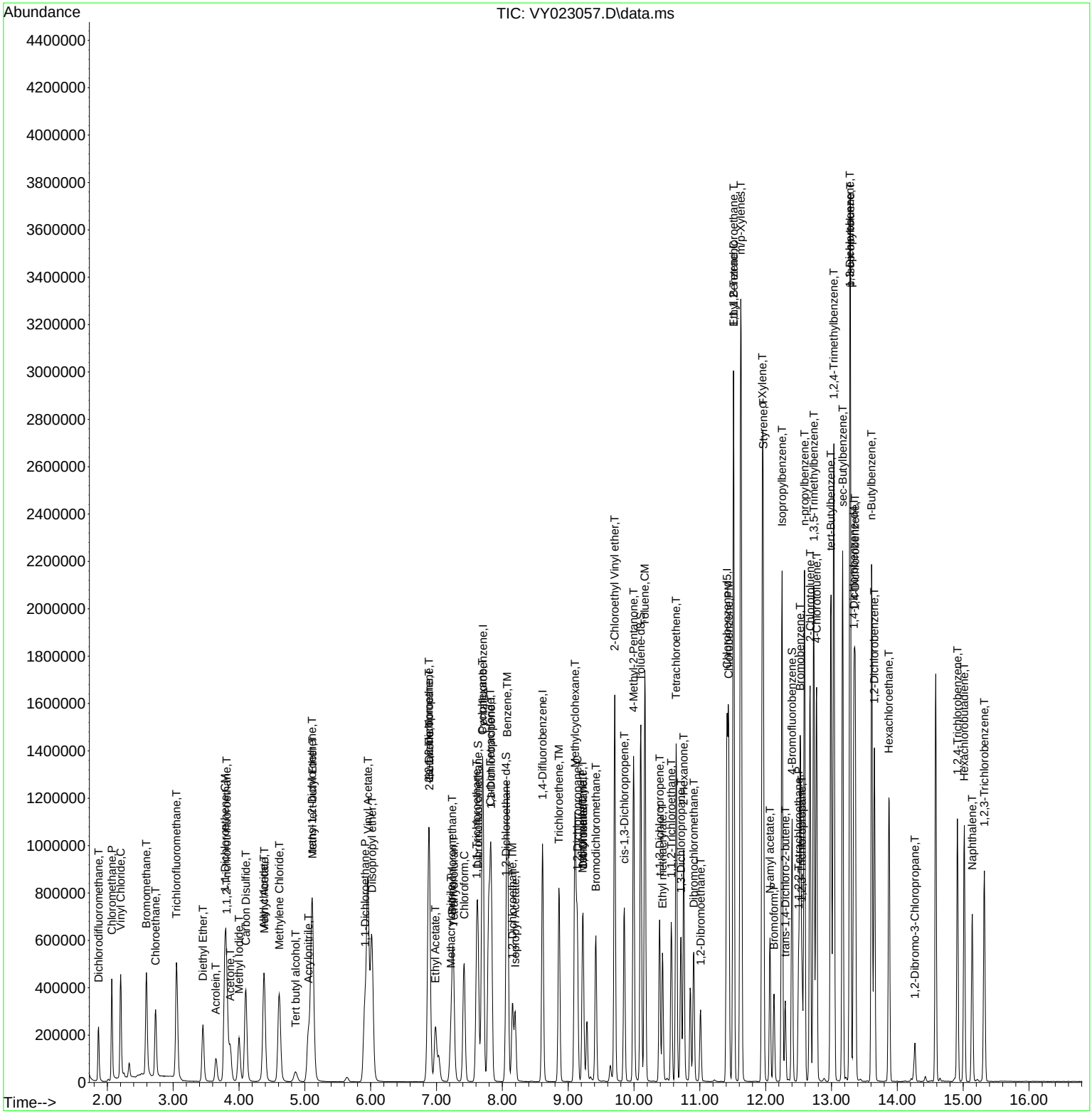
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

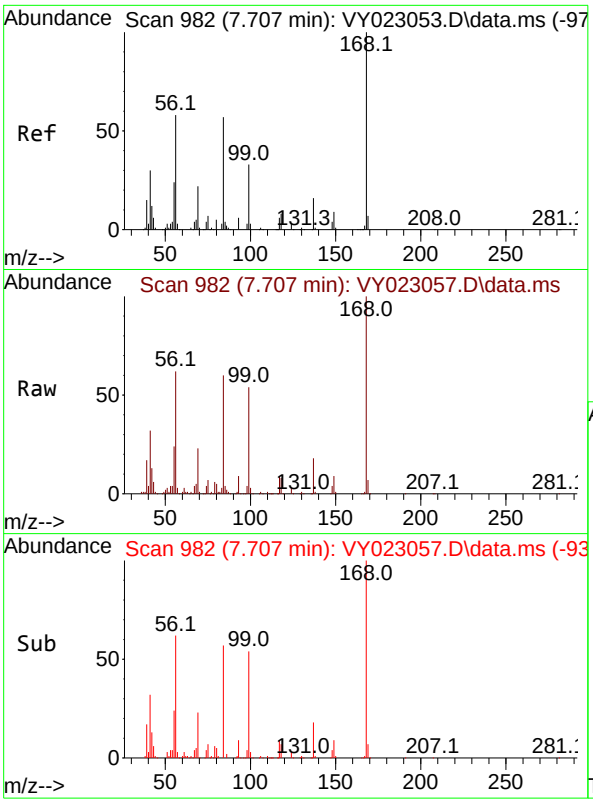
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



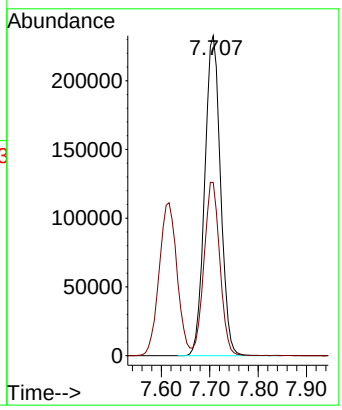


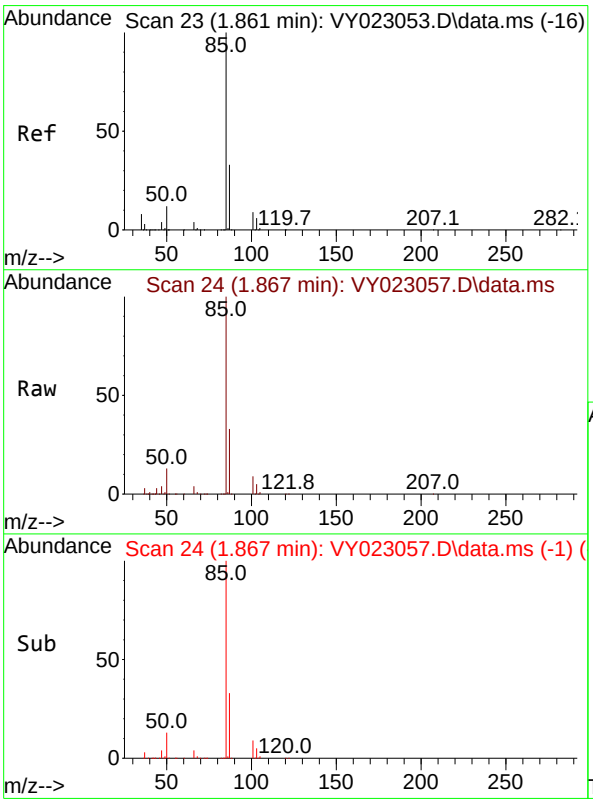
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:168 Resp: 528657

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2

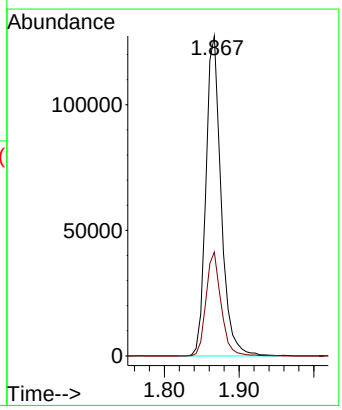


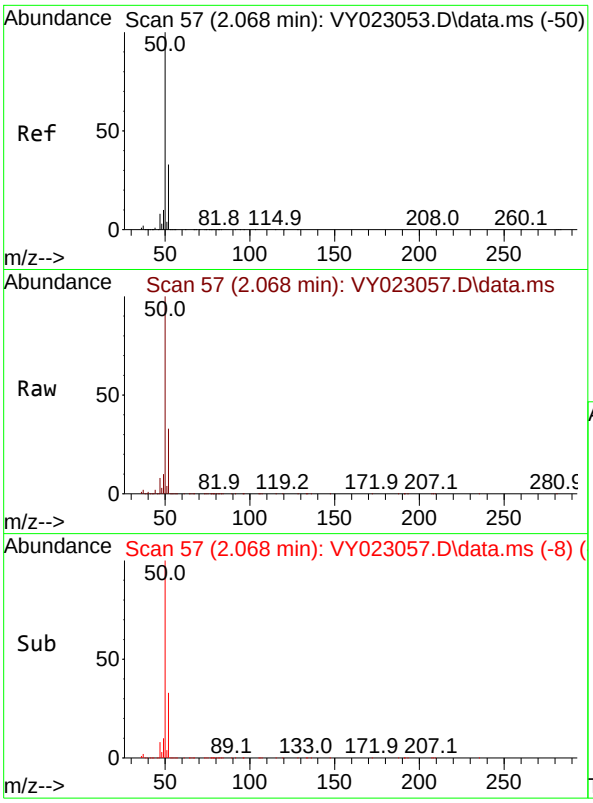


#2
Dichlorodifluoromethane
Concen: 41.579 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 85 Resp: 179421

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.6	49.8



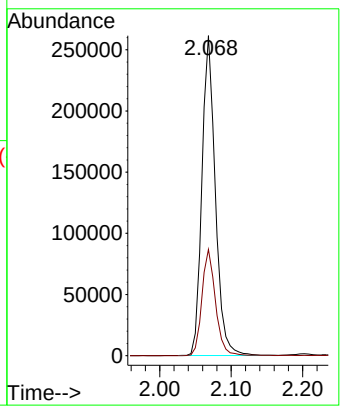


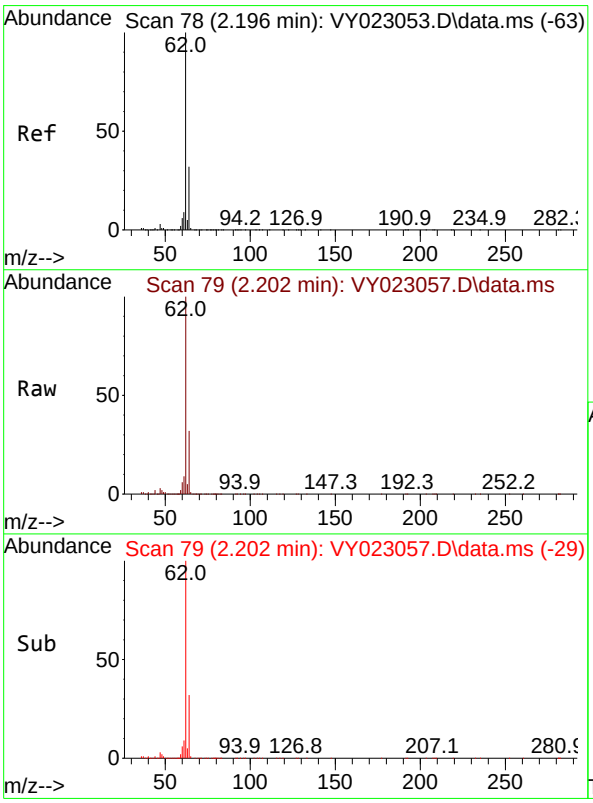
#3
Chloromethane
Concen: 48.732 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 50 Resp: 340600

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.7	40.1

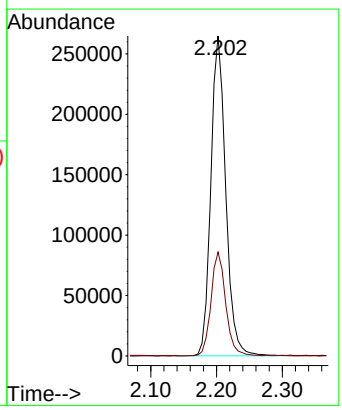


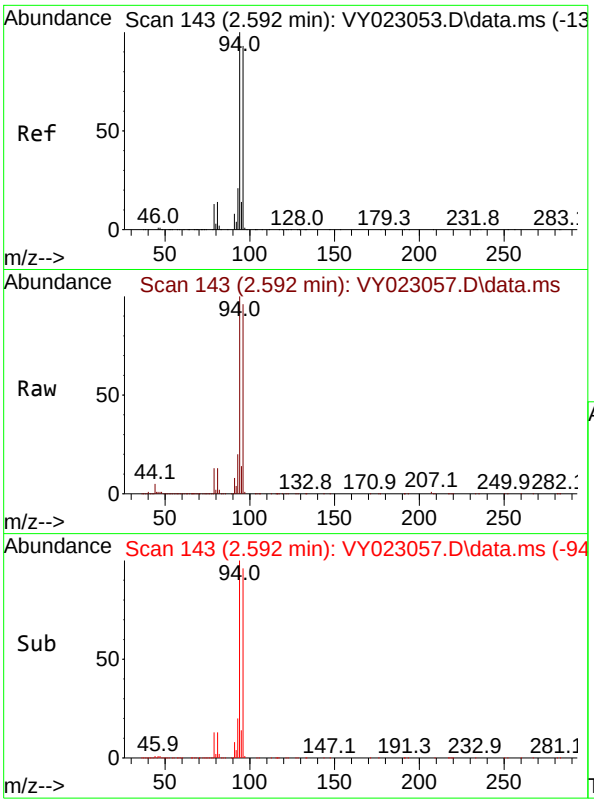


#4
Vinyl Chloride
Concen: 48.198 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 416413

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.4	38.0



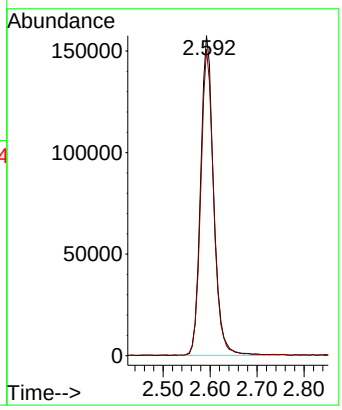


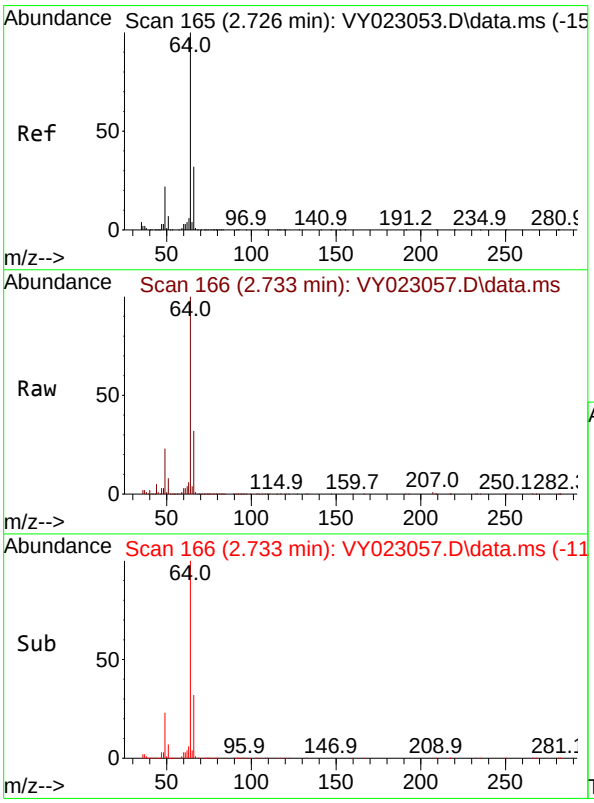
#5
Bromomethane
Concen: 46.983 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 94 Resp: 303147

Ion	Ratio	Lower	Upper
94	100		
96	95.7	74.6	112.0

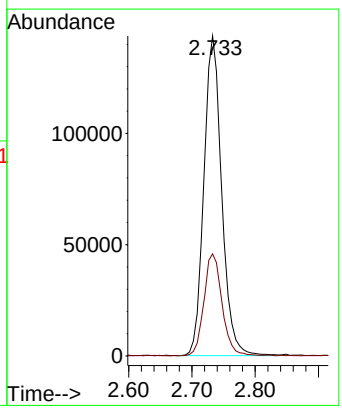


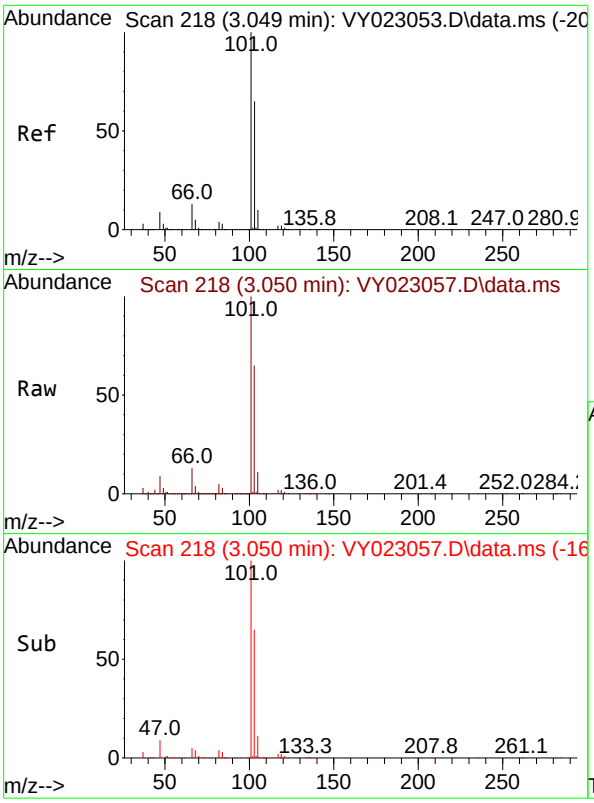


#6
Chloroethane
Concen: 48.923 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 64 Resp: 281008

Ion	Ratio	Lower	Upper
64	100		
66	31.9	25.8	38.6



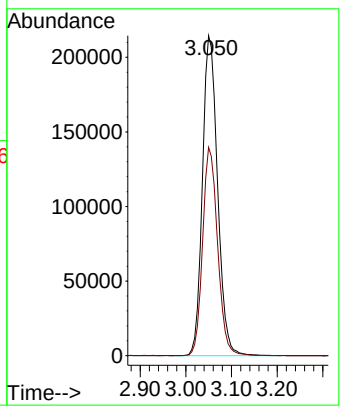


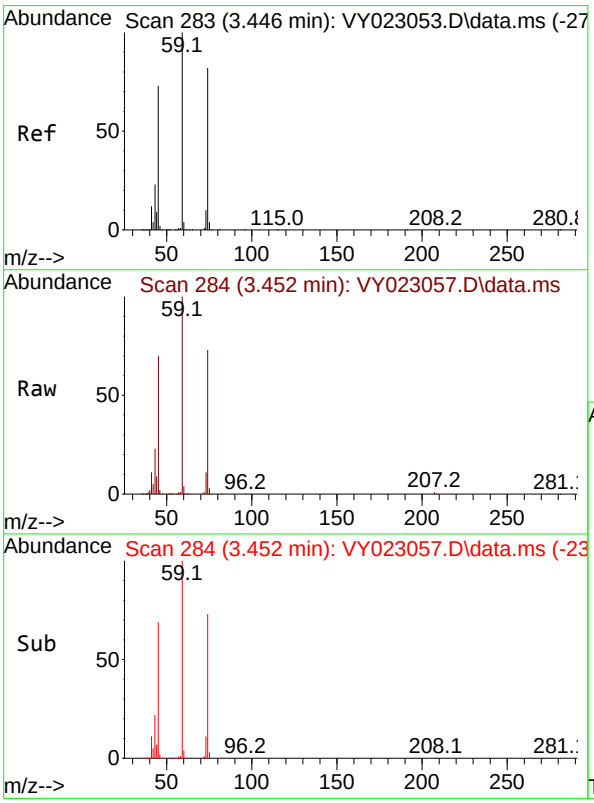
#7
Trichlorofluoromethane
Concen: 47.003 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:101 Resp: 493782

Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.9	77.9

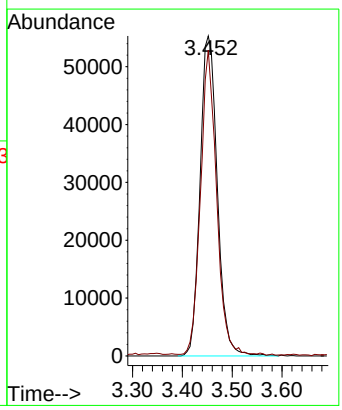


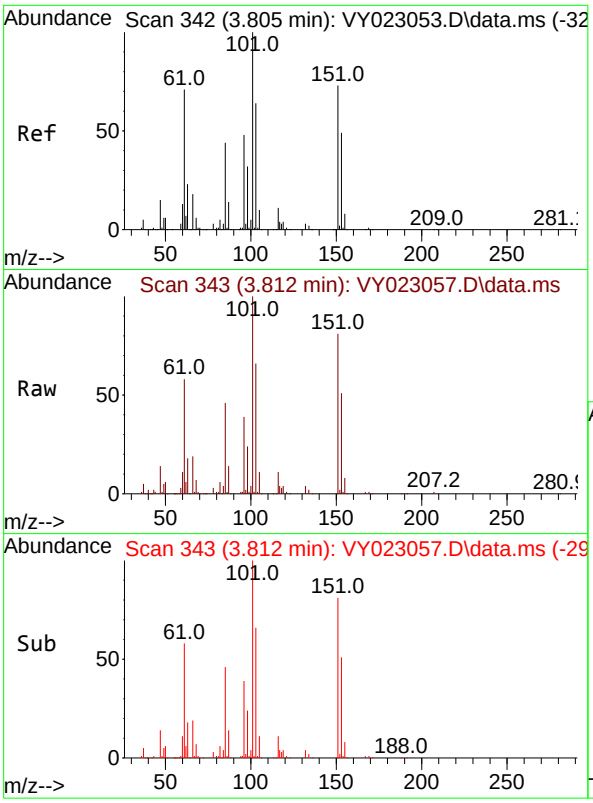


#8
Diethyl Ether
Concen: 47.787 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 74 Resp: 132818

Ion	Ratio	Lower	Upper
74	100		
45	88.1	44.4	133.2



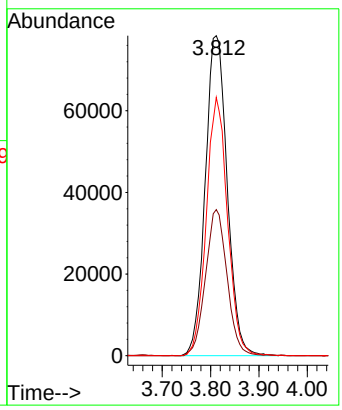


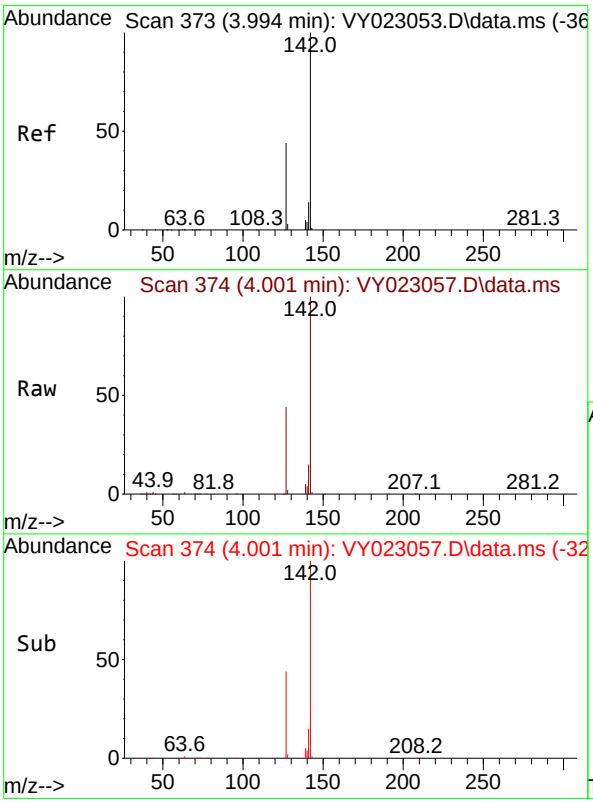
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.725 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

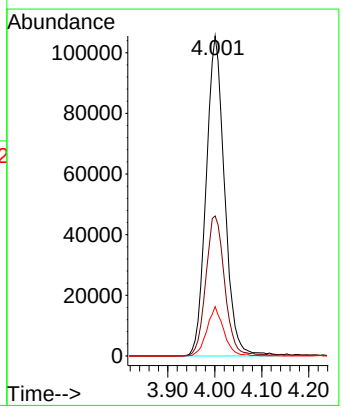


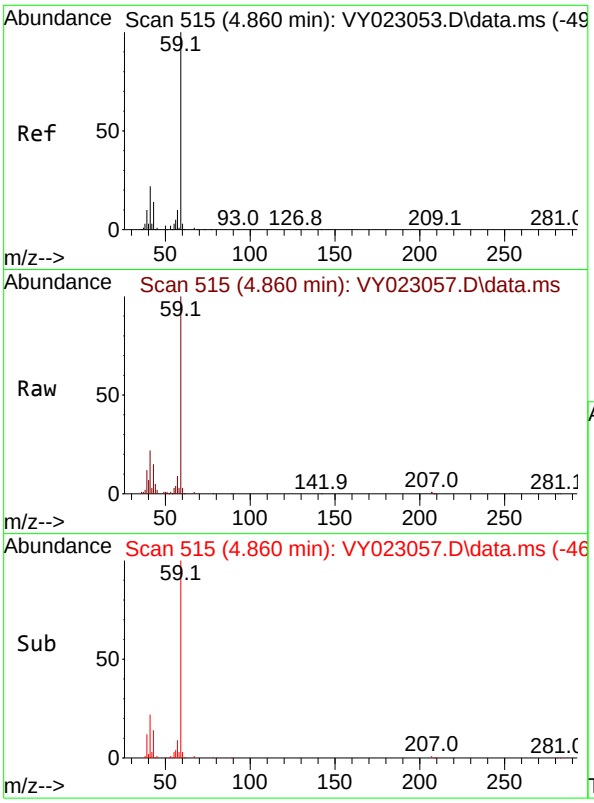


#10
Methyl Iodide
Concen: 51.340 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



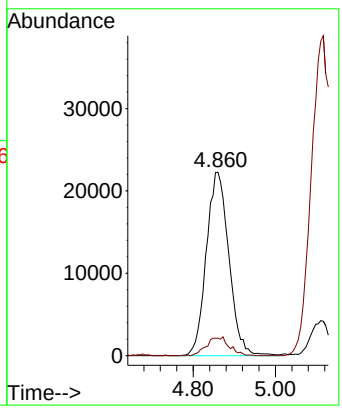


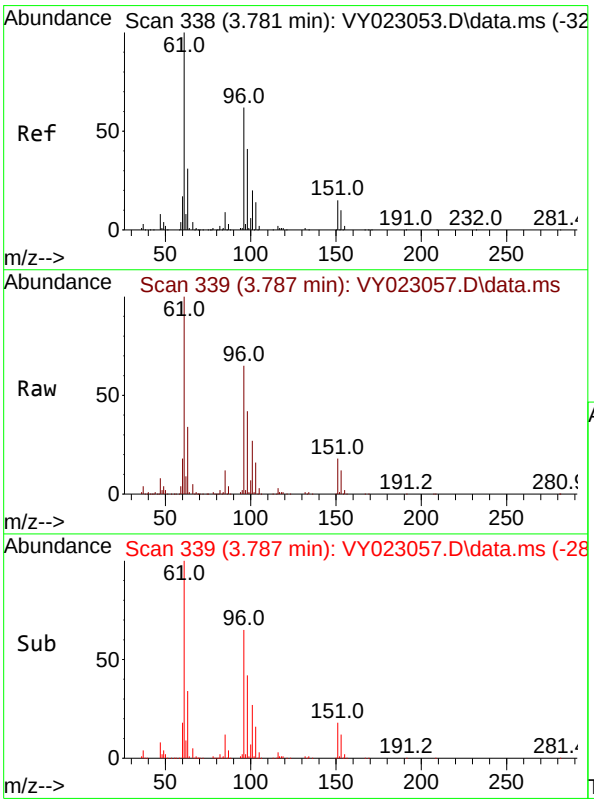
#11
Tert butyl alcohol
Concen: 245.940 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 59 Resp: 84906

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	13.0

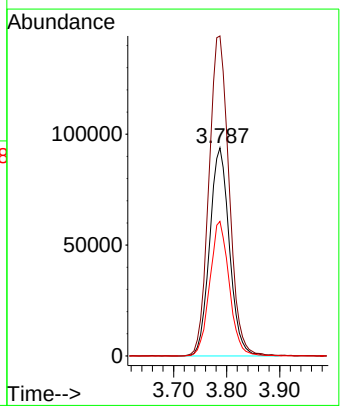


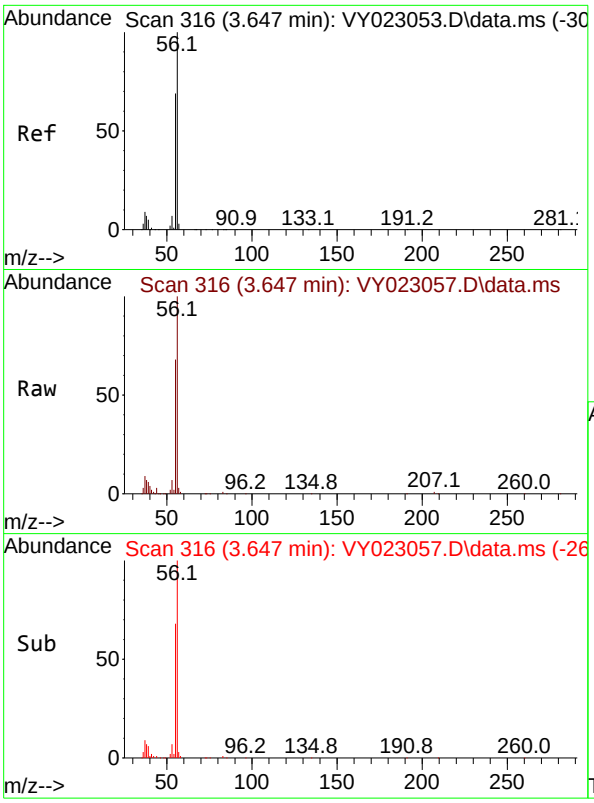


#12
1,1-Dichloroethene
Concen: 47.686 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



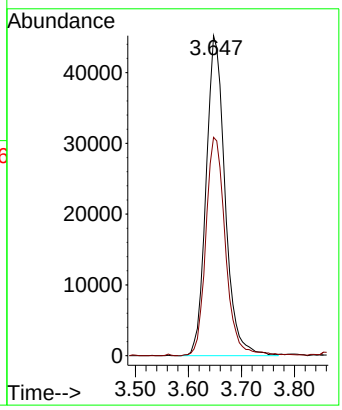


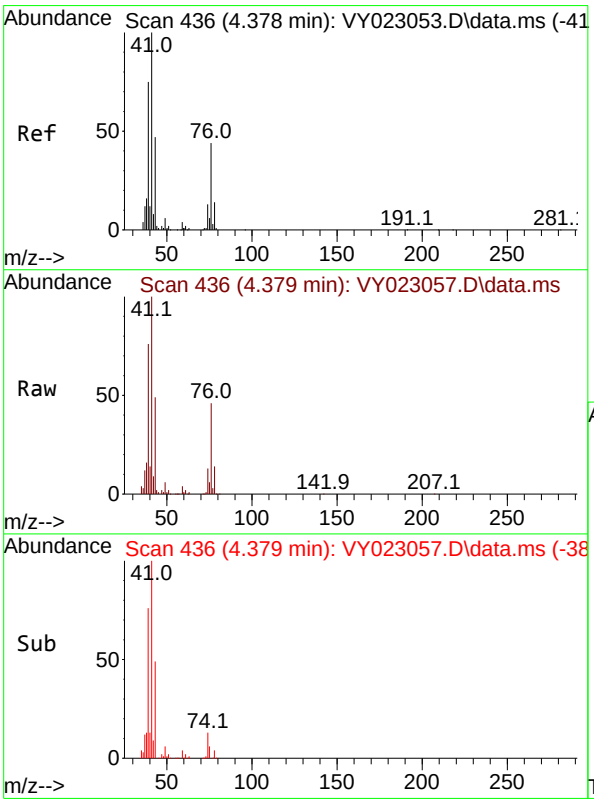
#13
Acrolein
Concen: 222.008 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 56 Resp: 112246

Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.2	82.8

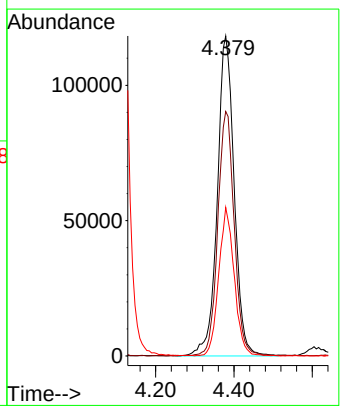


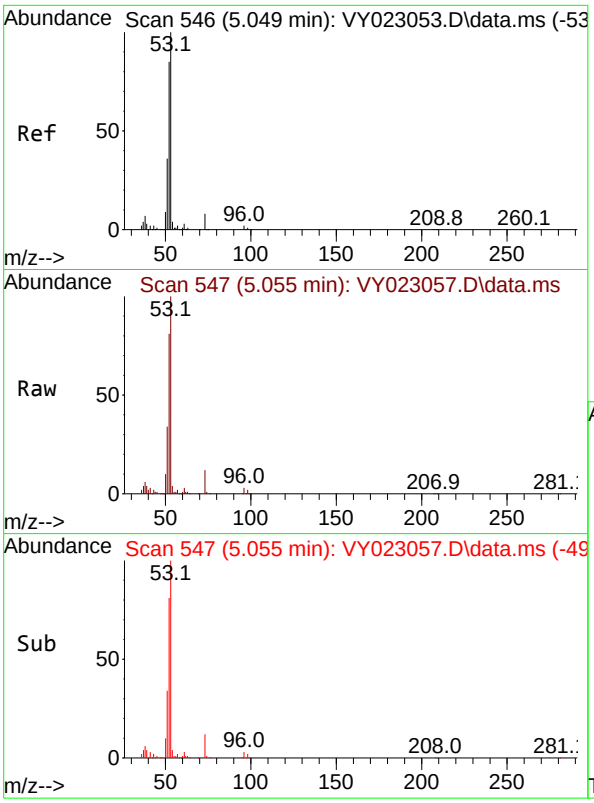


#14
Allyl chloride
Concen: 47.317 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



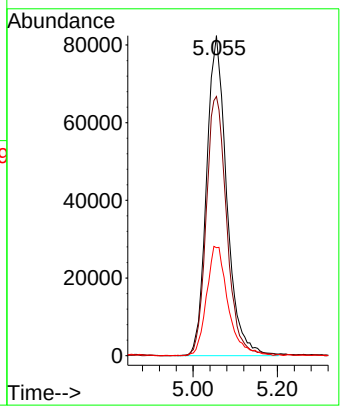


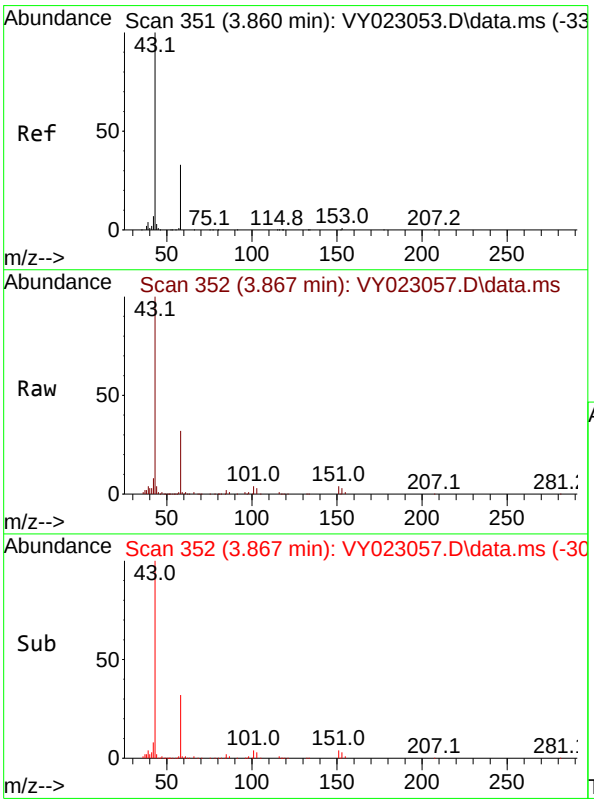
#15
Acrylonitrile
Concen: 242.779 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

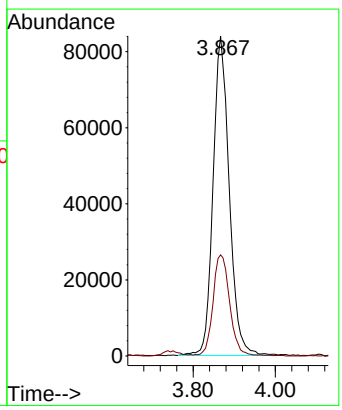


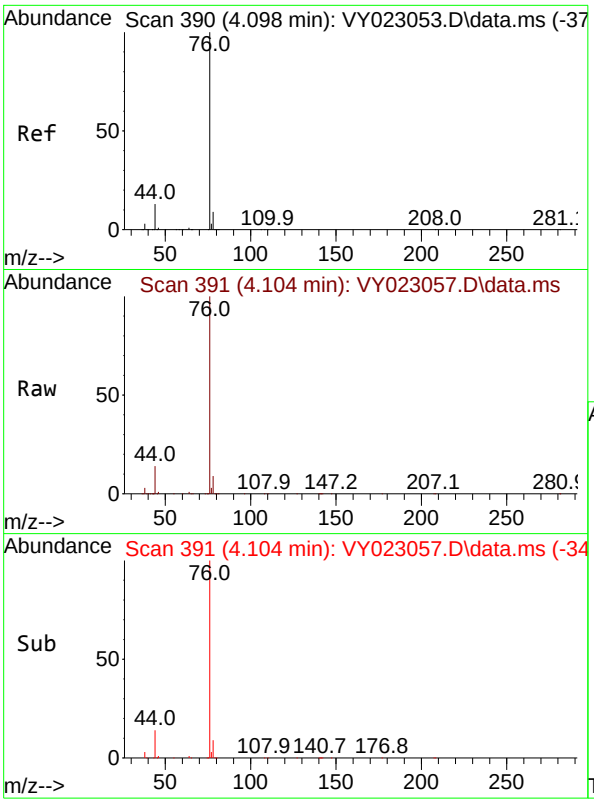


#16
Acetone
Concen: 210.695 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 229985

Ion	Ratio	Lower	Upper
43	100		
58	31.5	27.1	40.7



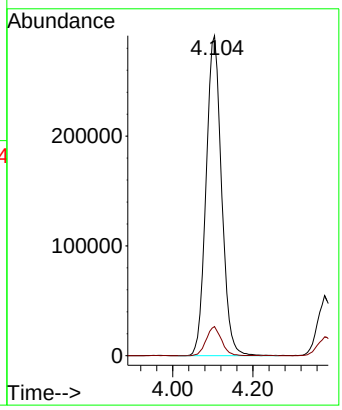


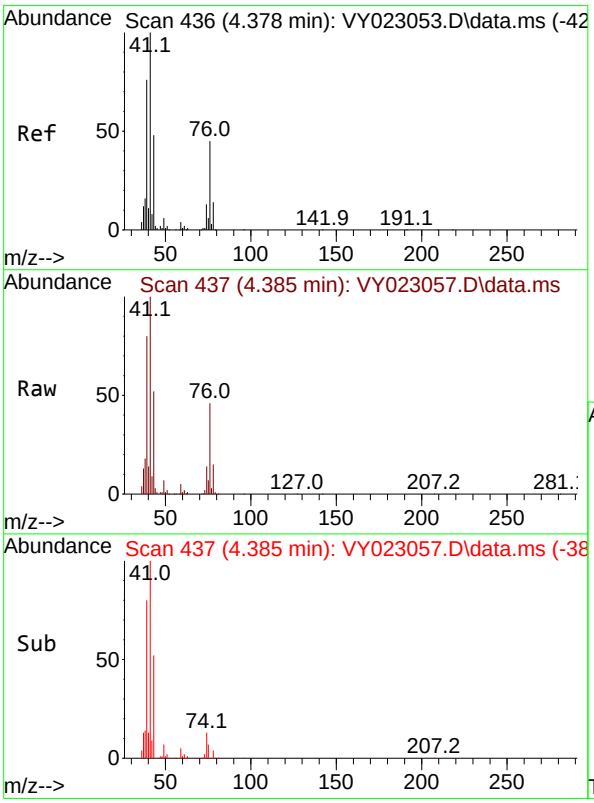
#17
Carbon Disulfide
Concen: 46.948 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 76 Resp: 779852

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2

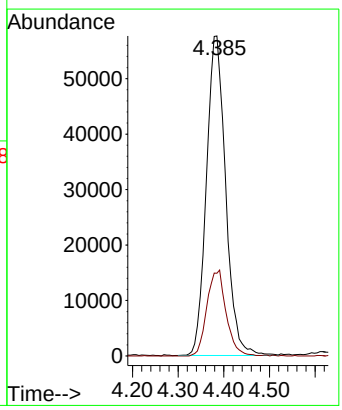


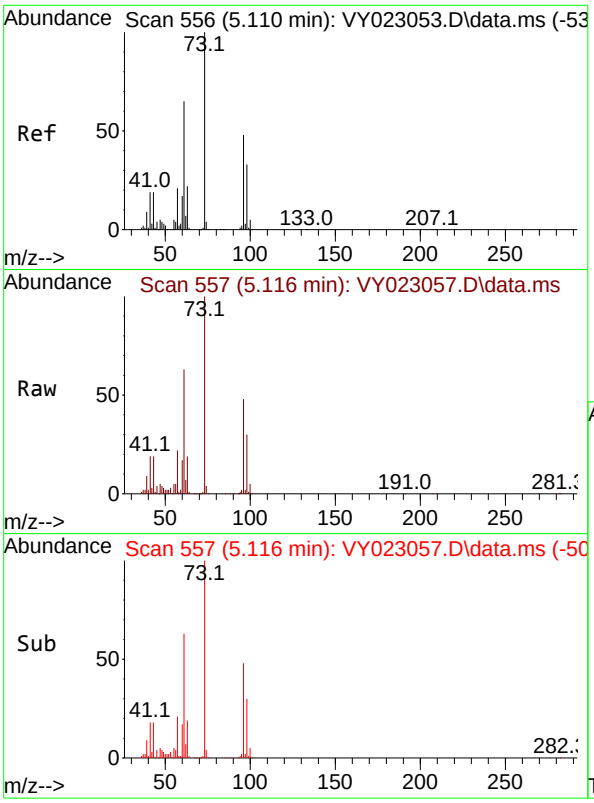


#18
Methyl Acetate
Concen: 51.972 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 168821

Ion	Ratio	Lower	Upper
43	100		
74	26.8	21.2	31.8



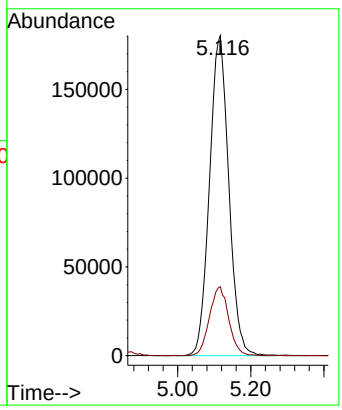


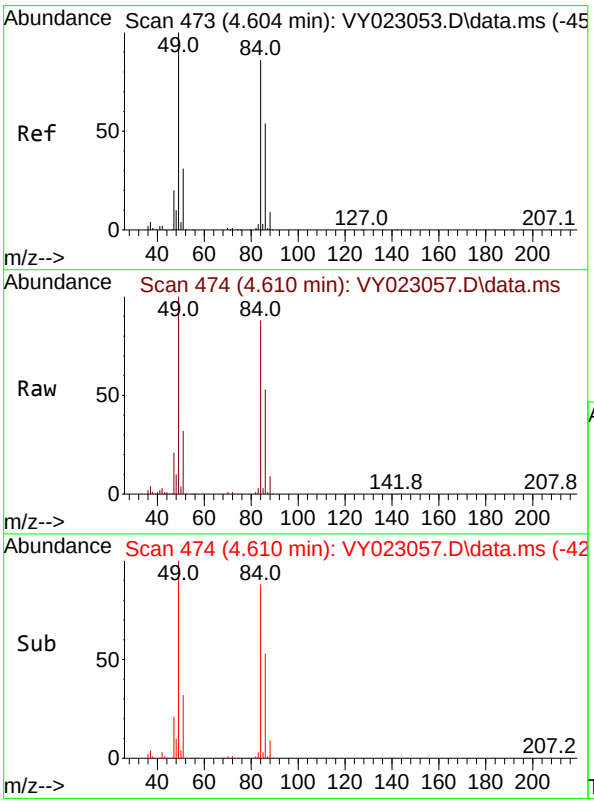
#19
Methyl tert-butyl Ether
Concen: 49.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 73 Resp: 658713

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

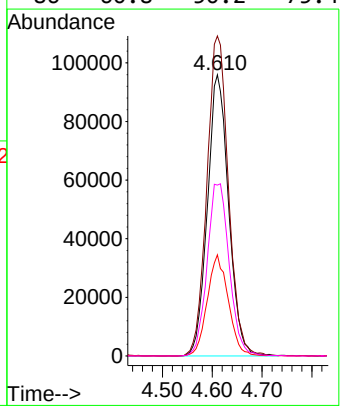


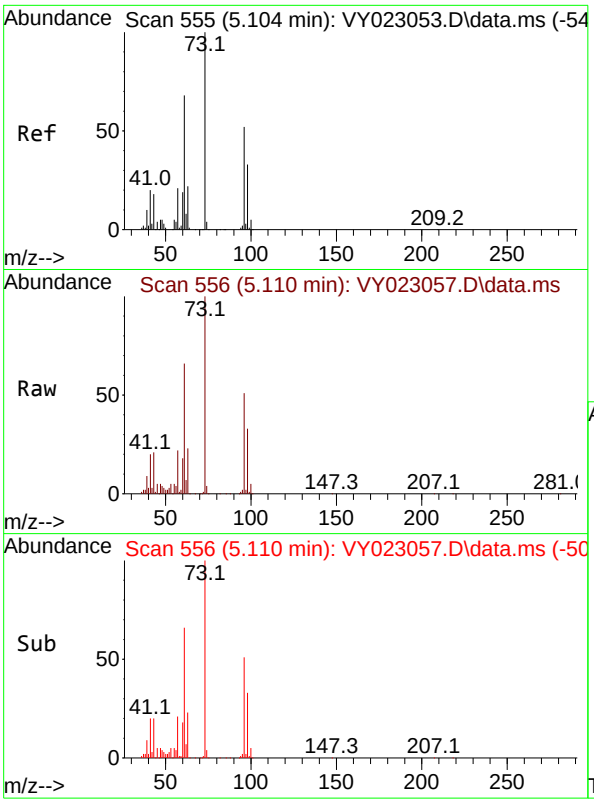


#20
Methylene Chloride
Concen: 49.960 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



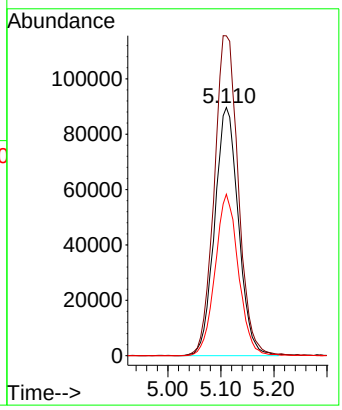


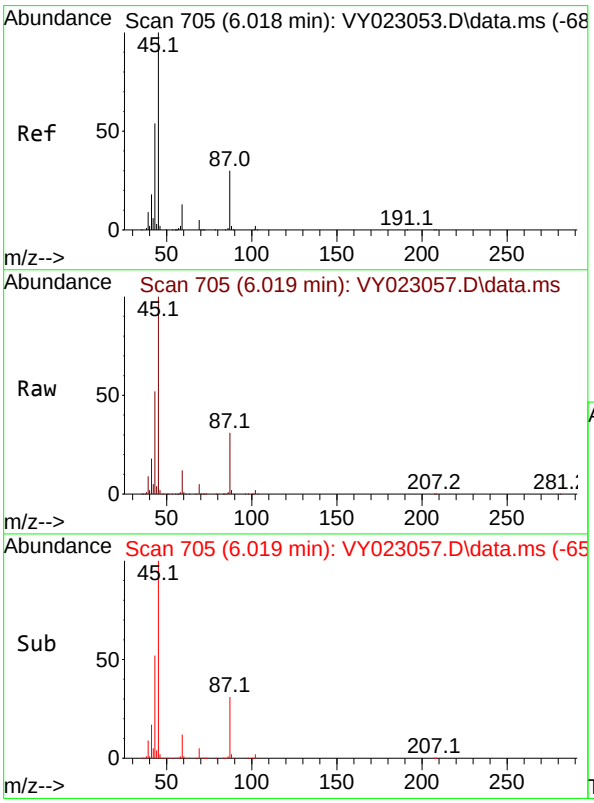
#21
trans-1,2-Dichloroethene
Concen: 48.765 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

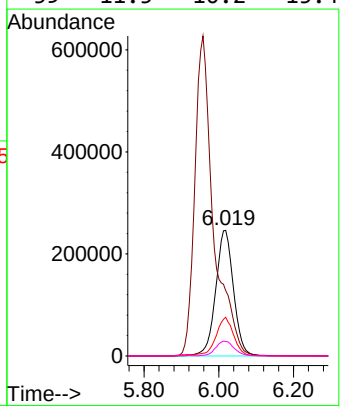


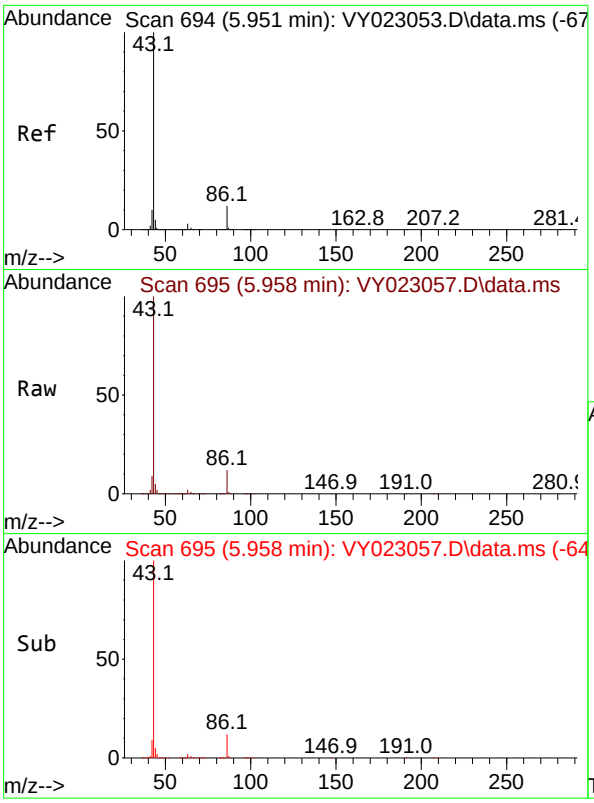


#22
Diisopropyl ether
Concen: 50.011 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



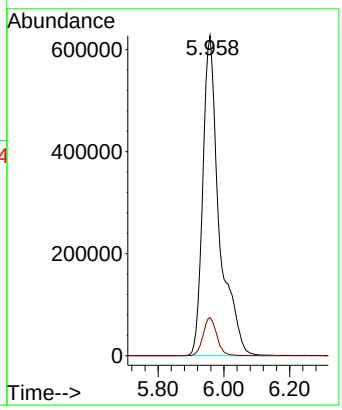


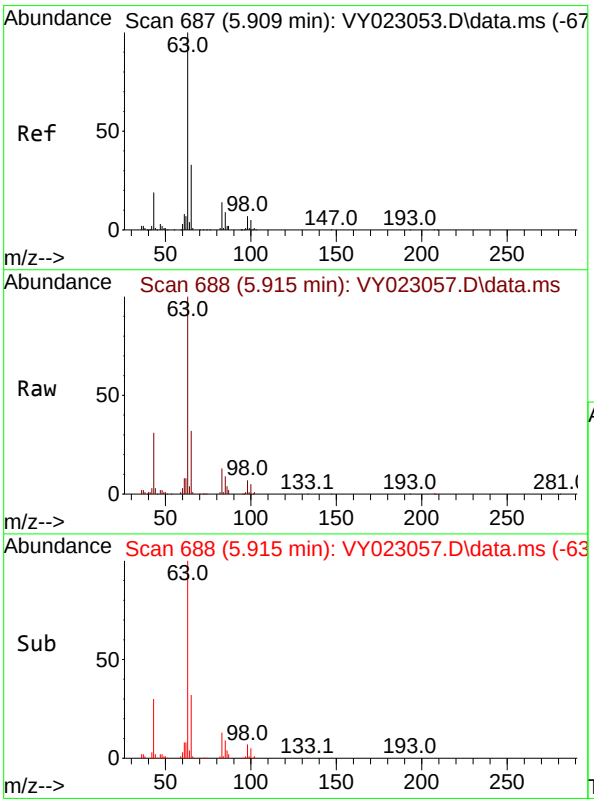
#23
Vinyl Acetate
Concen: 242.360 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 2182924

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4

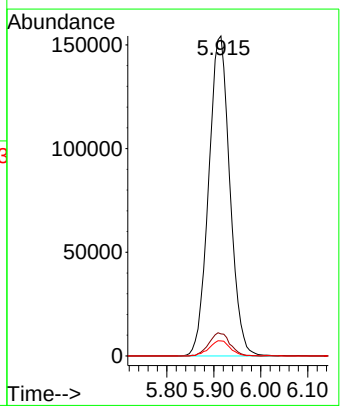


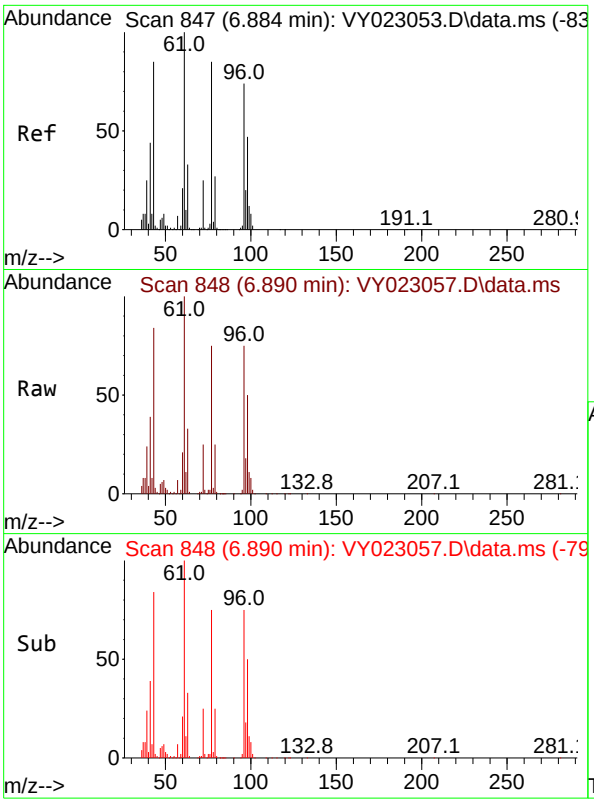


#24
1,1-Dichloroethane
Concen: 48.551 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



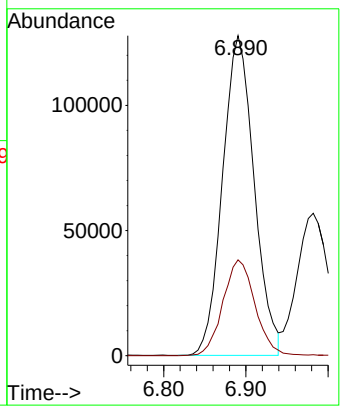


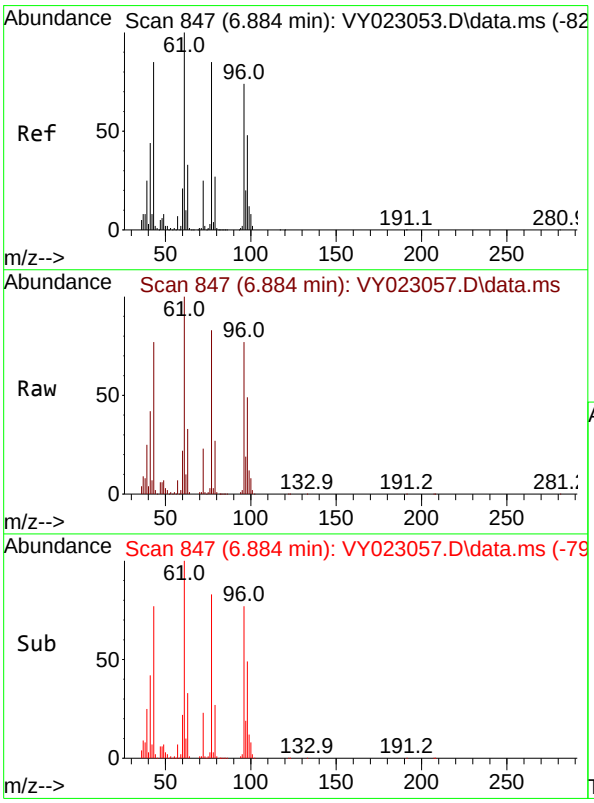
#25
2-Butanone
Concen: 230.028 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 341490

Ion	Ratio	Lower	Upper
43	100		
72	30.0	23.5	35.3

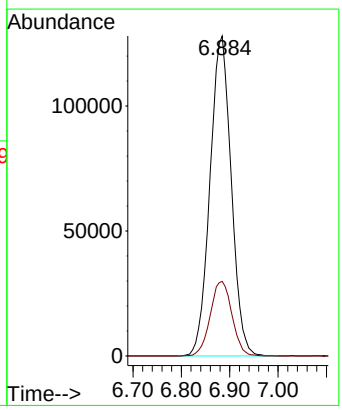


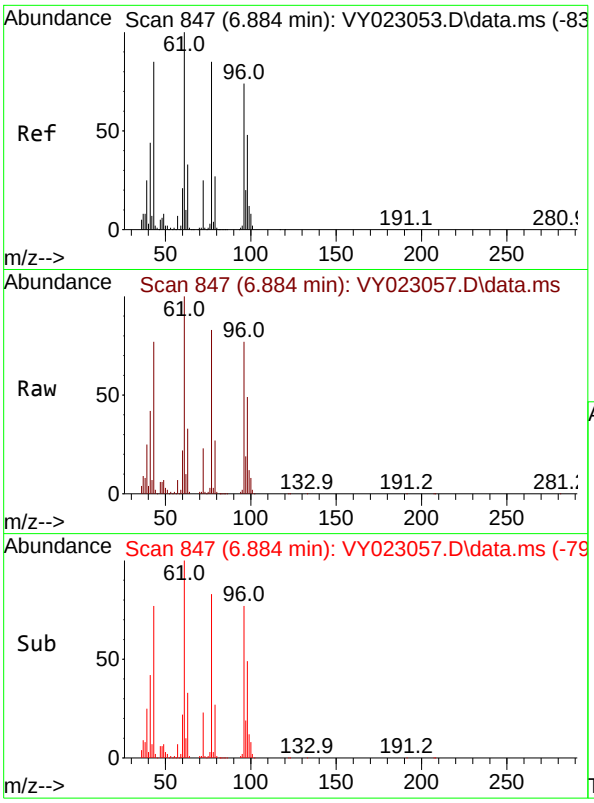


#26
2,2-Dichloropropane
Concen: 45.475 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 77 Resp: 390777

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.8



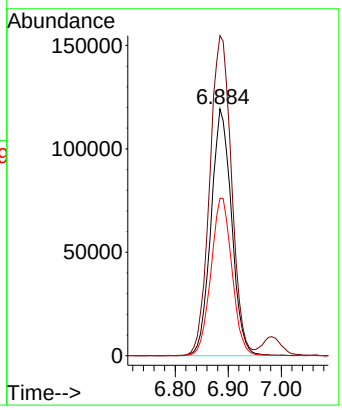


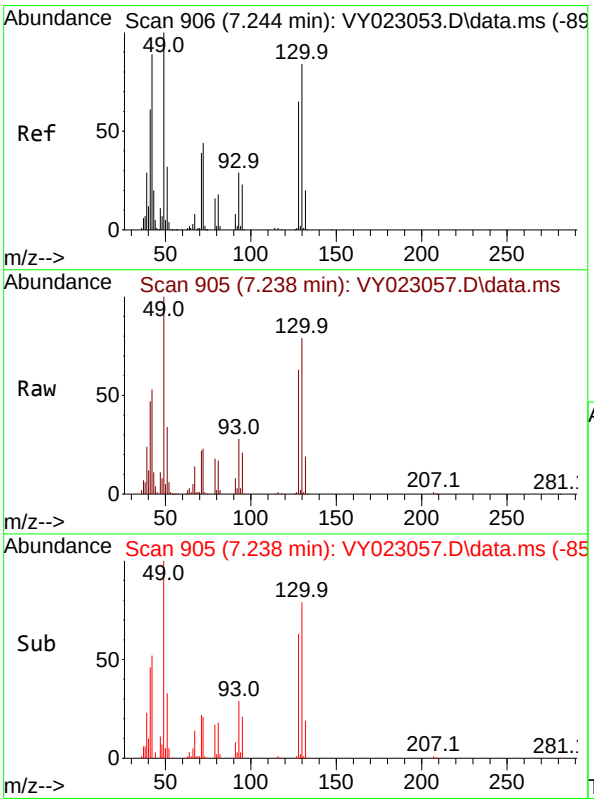
#27
cis-1,2-Dichloroethene
Concen: 48.720 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

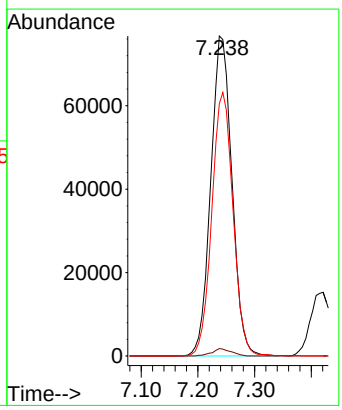


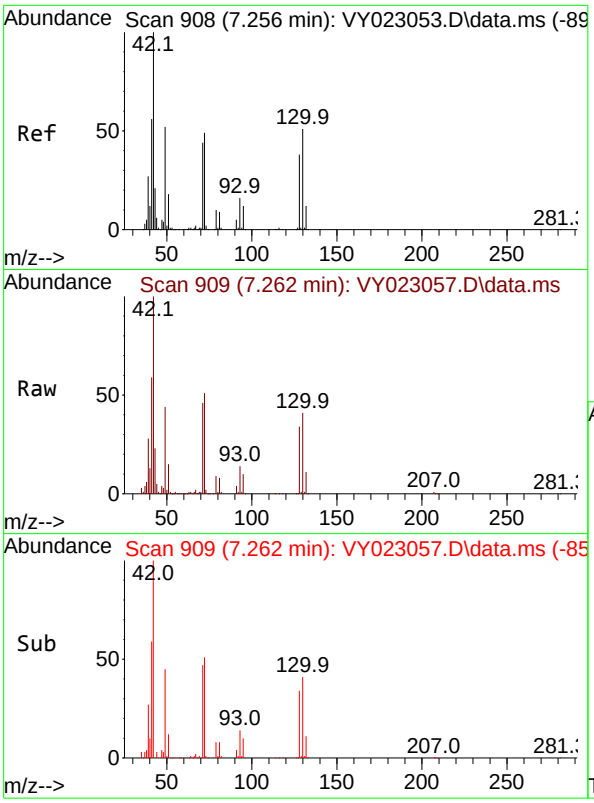


#28
Bromochloromethane
Concen: 50.275 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



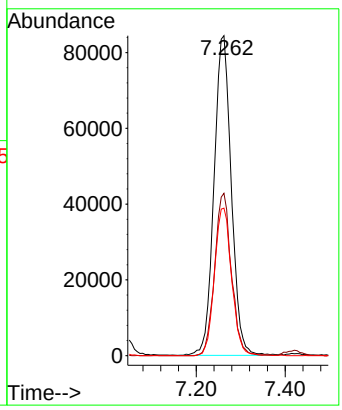


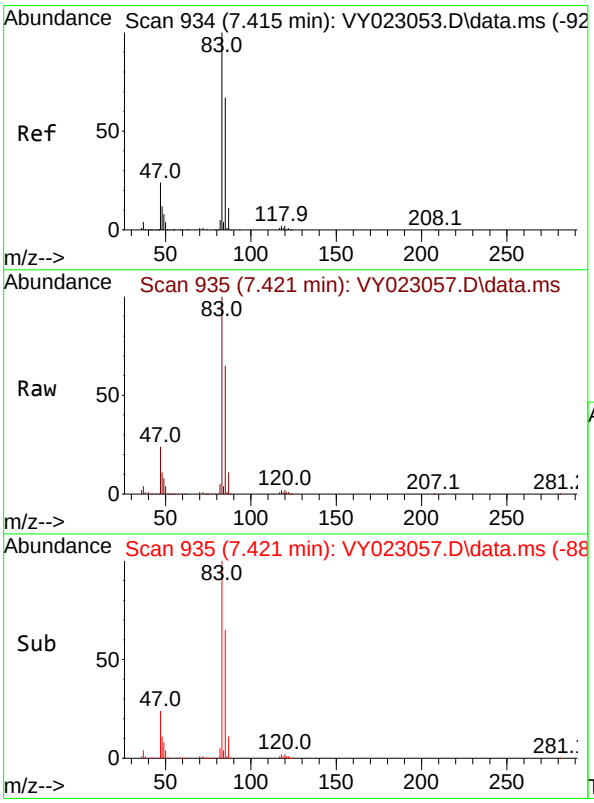
#29
Tetrahydrofuran
Concen: 247.420 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

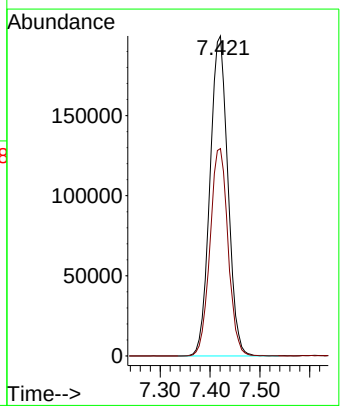


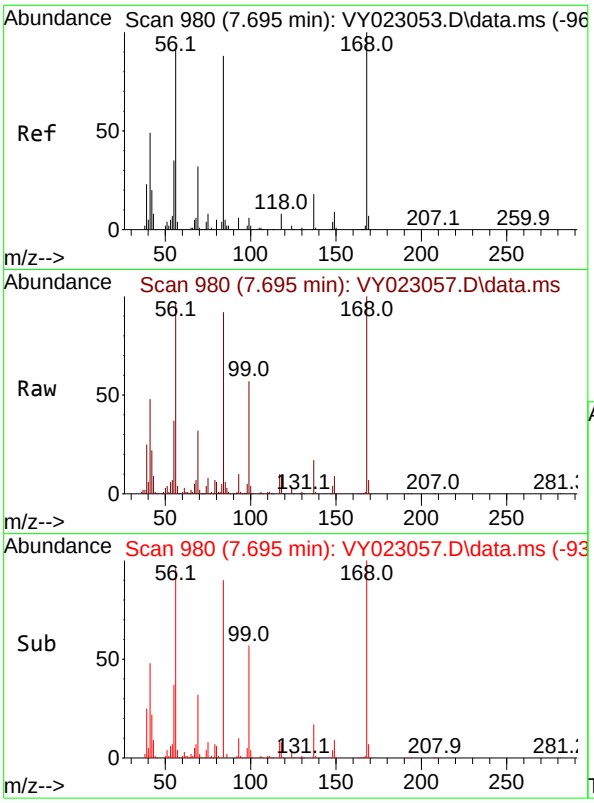


#30
Chloroform
Concen: 48.450 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 497627

Ion	Ratio	Lower	Upper
83	100		
85	64.8	53.8	80.8



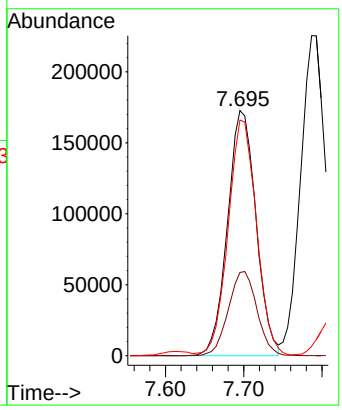


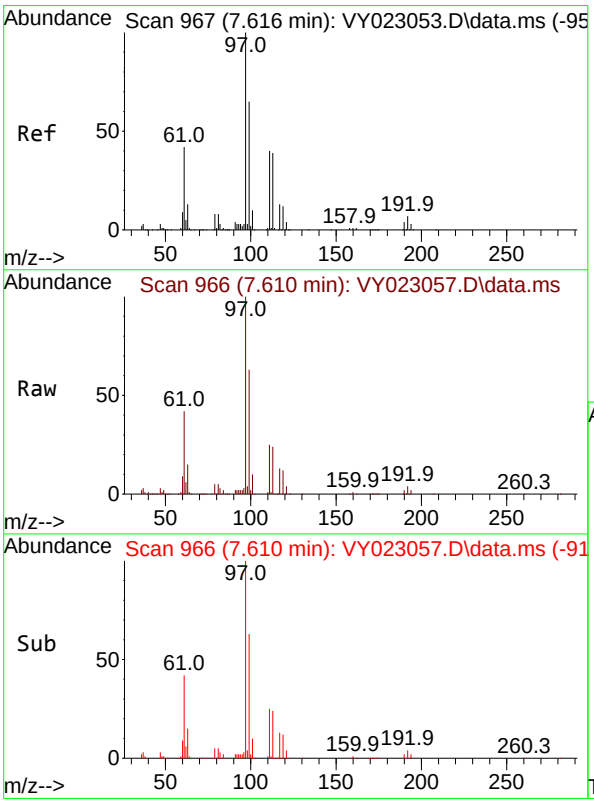
#31
Cyclohexane
Concen: 46.526 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

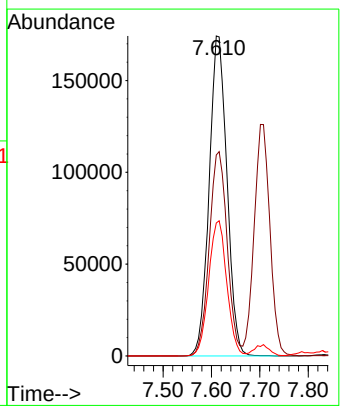


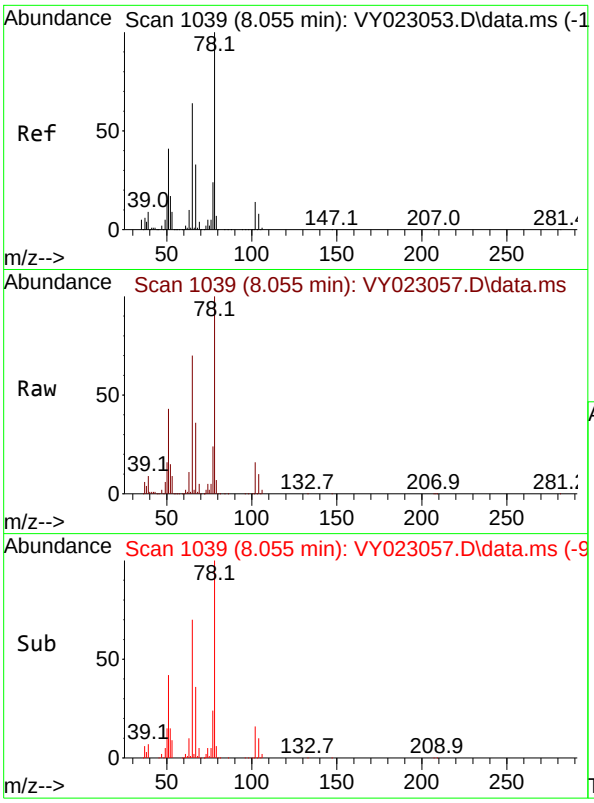


#32
1,1,1-Trichloroethane
Concen: 48.933 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



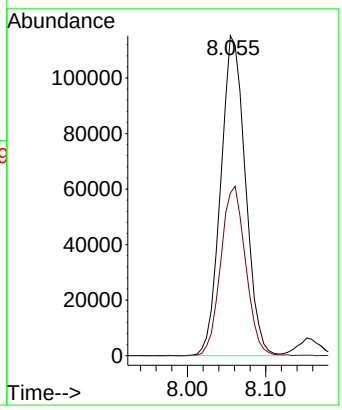


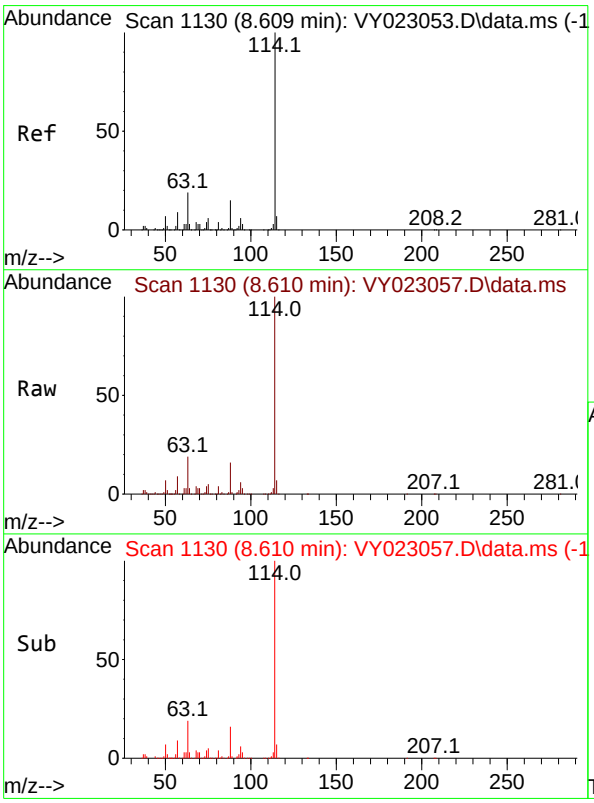
#33
1,2-Dichloroethane-d4
Concen: 50.038 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 65 Resp: 252116

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	106.8

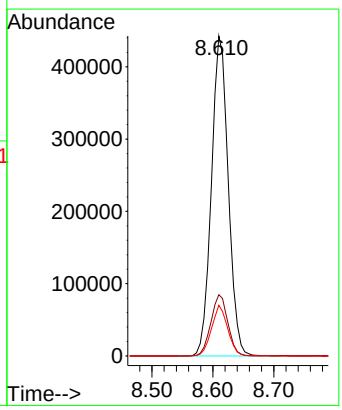


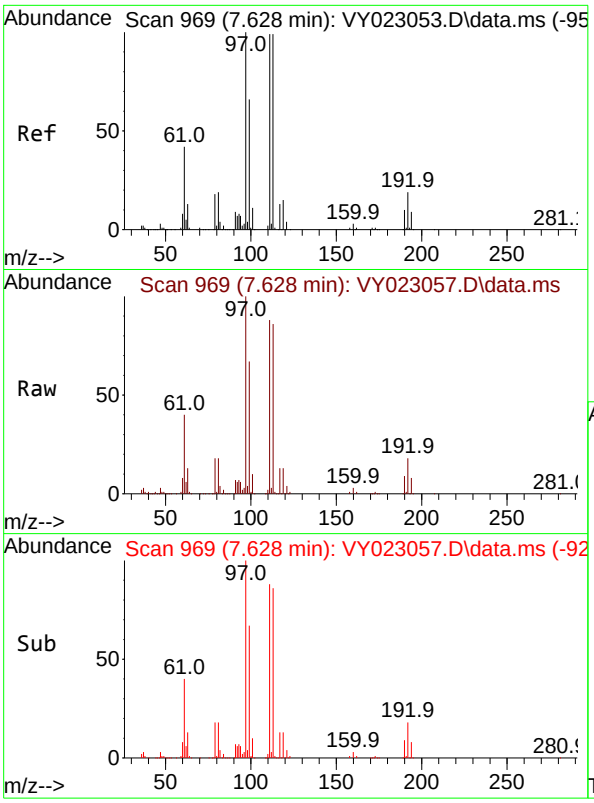


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



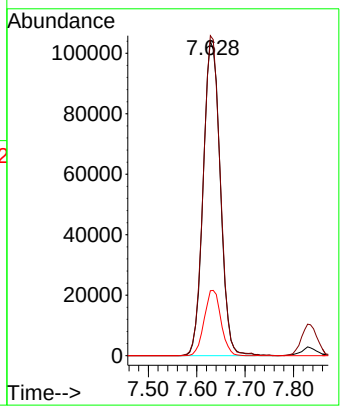


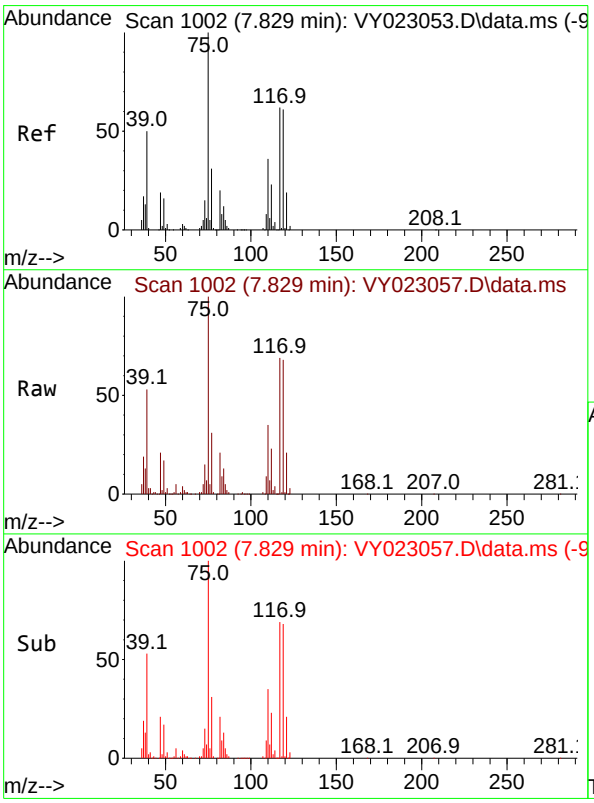
#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

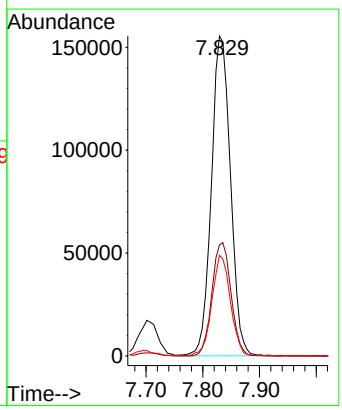


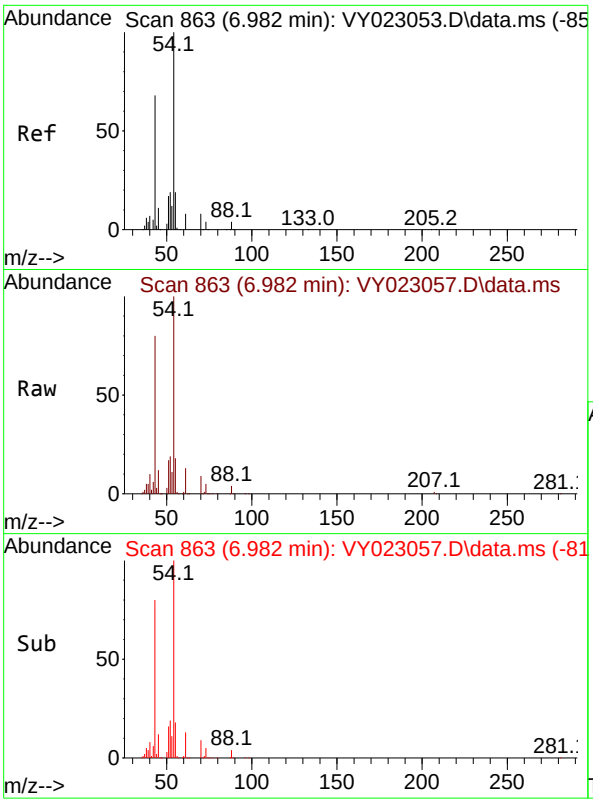


#36
1,1-Dichloropropene
Concen: 48.193 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



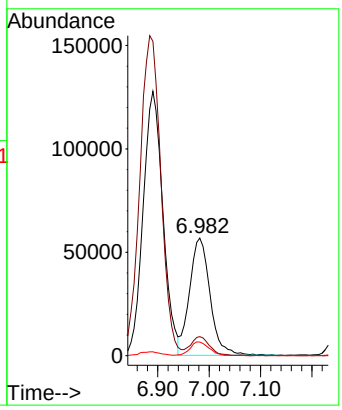


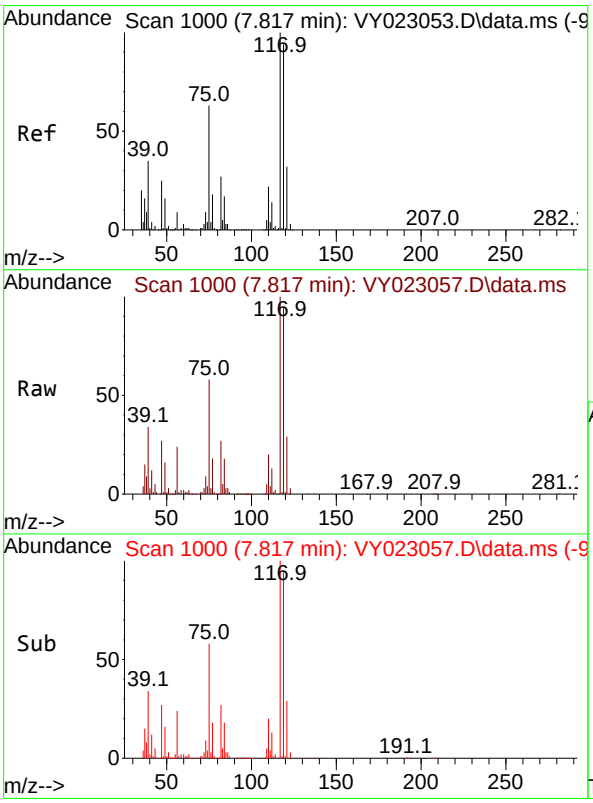
#37
Ethyl Acetate
Concen: 49.621 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

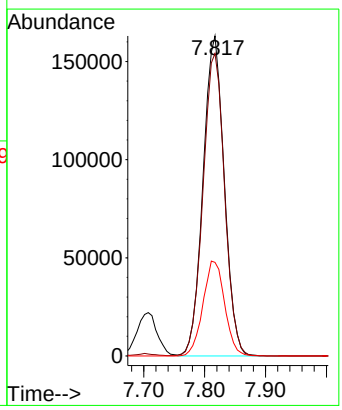


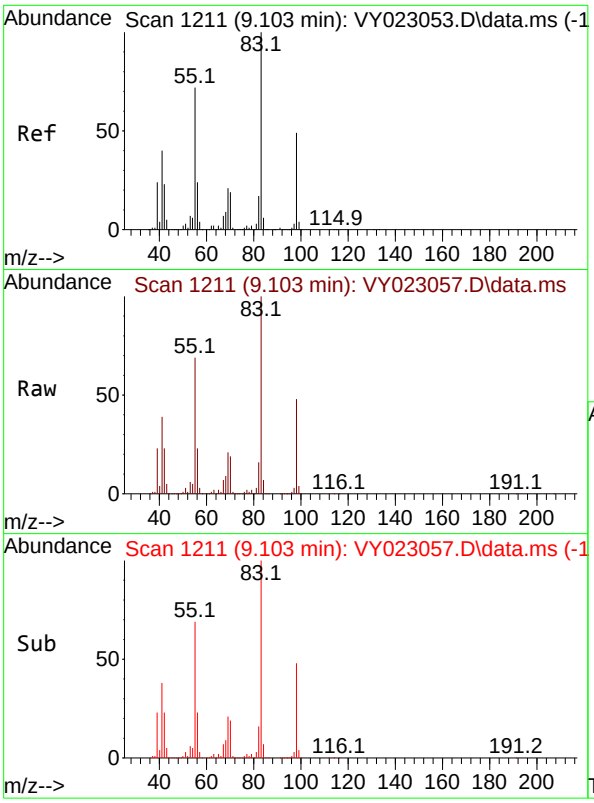


#38
Carbon Tetrachloride
Concen: 48.030 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



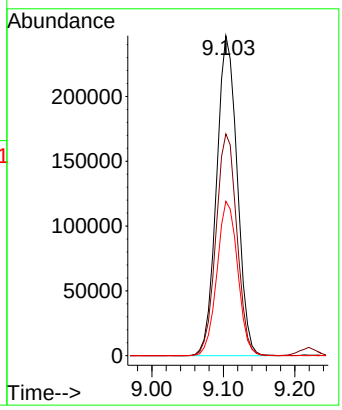


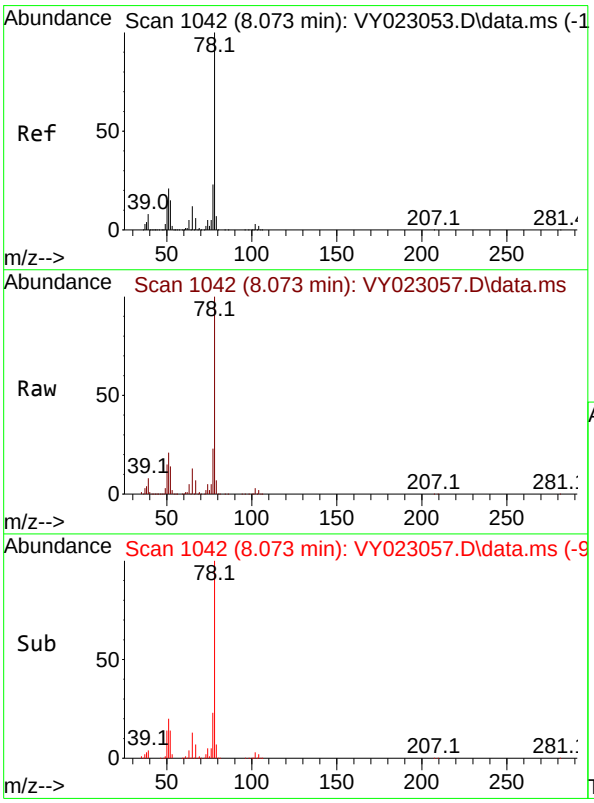
#39
Methylcyclohexane
Concen: 49.625 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

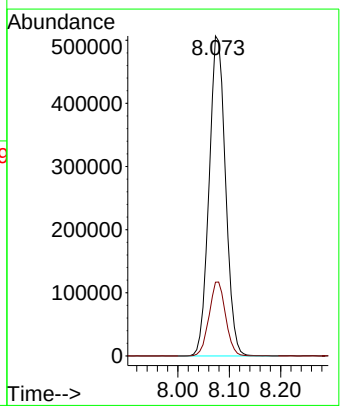


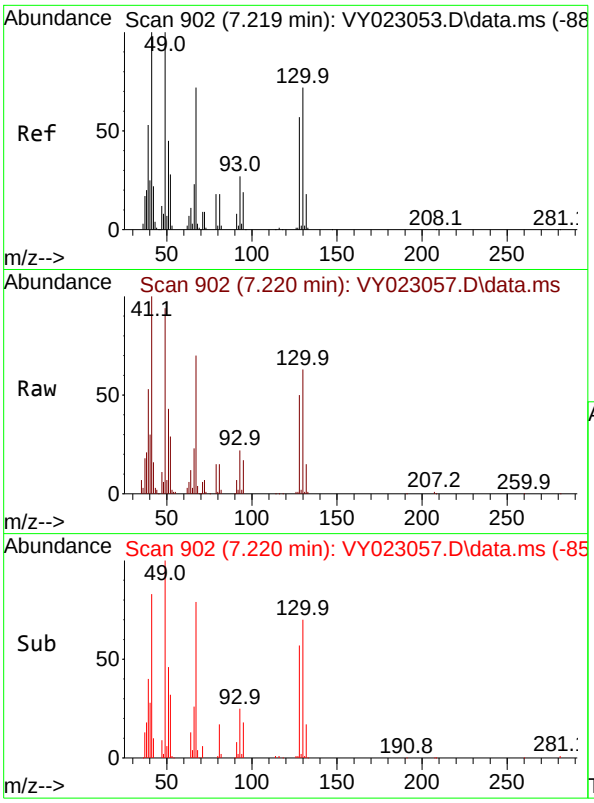


#40
Benzene
Concen: 48.428 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 78 Resp: 1128023

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.6	28.0



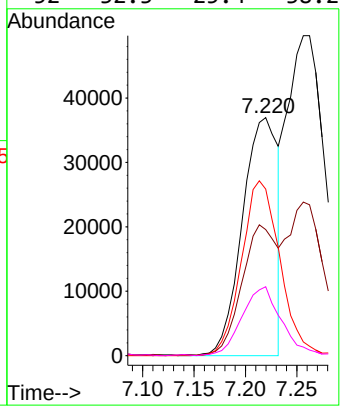


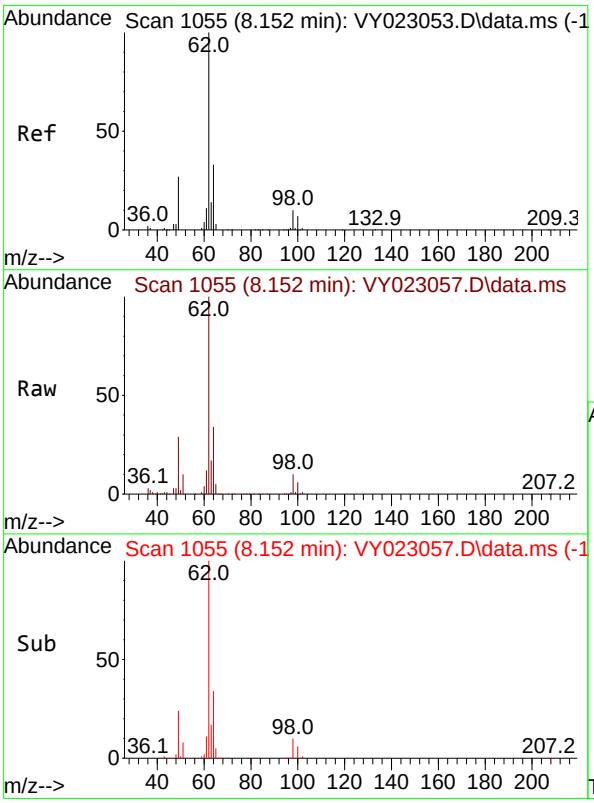
#41
Methacrylonitrile
Concen: 48.269 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

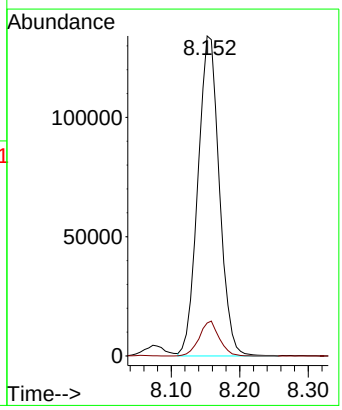


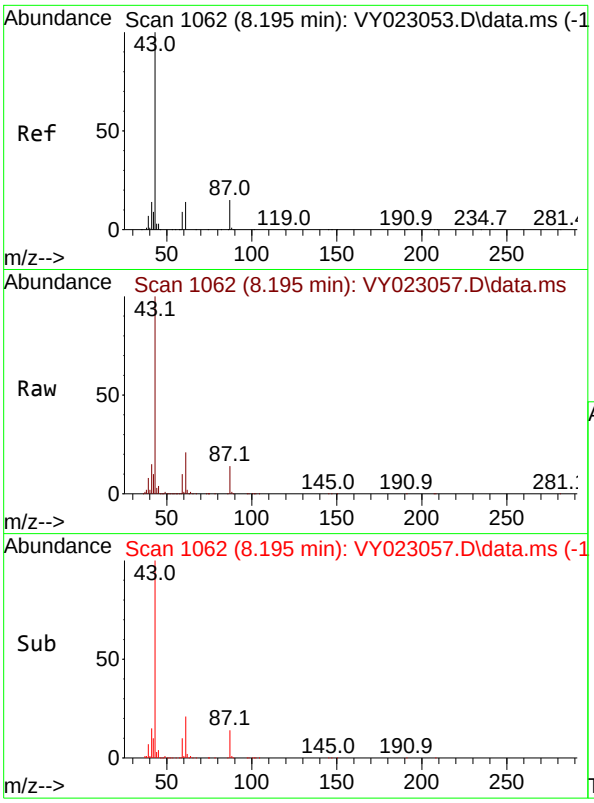


#42
1,2-Dichloroethane
Concen: 48.162 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 291766

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



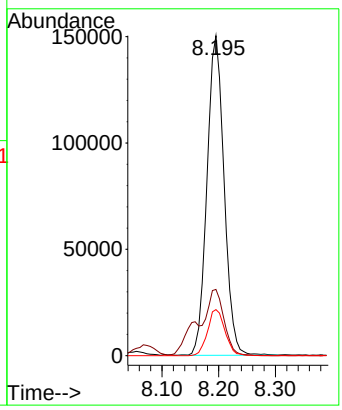


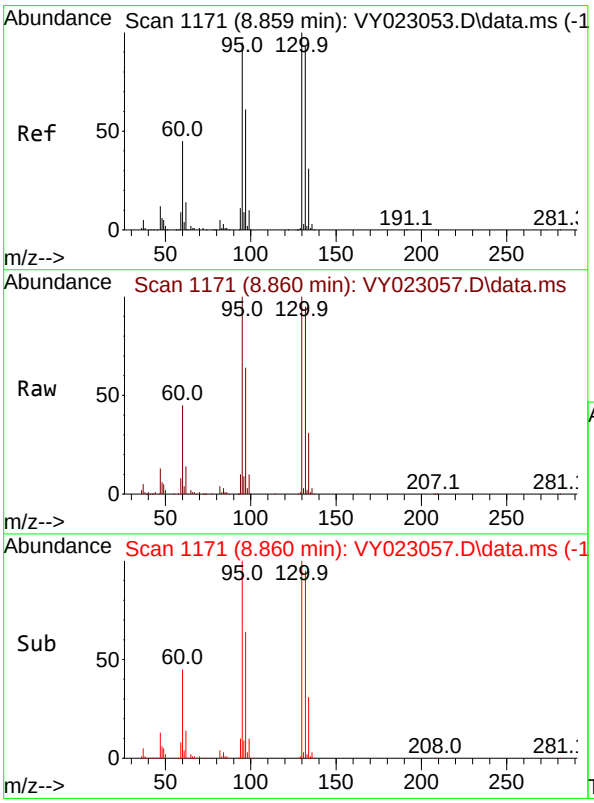
#43
Isopropyl Acetate
Concen: 49.094 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

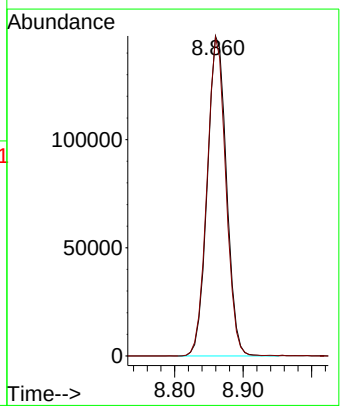


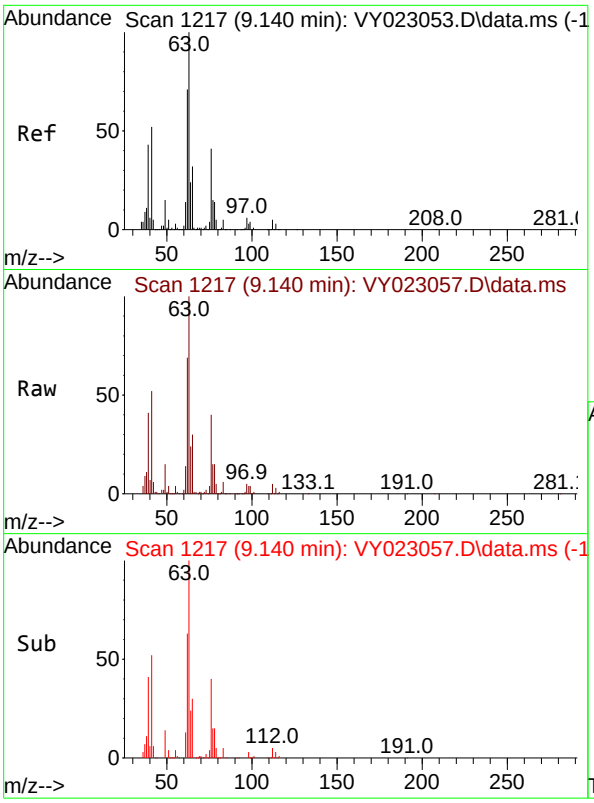


#44
Trichloroethene
Concen: 47.803 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:130 Resp: 287745

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	190.2



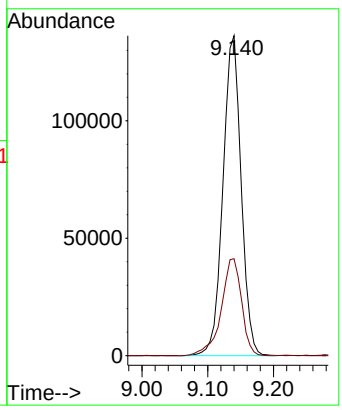


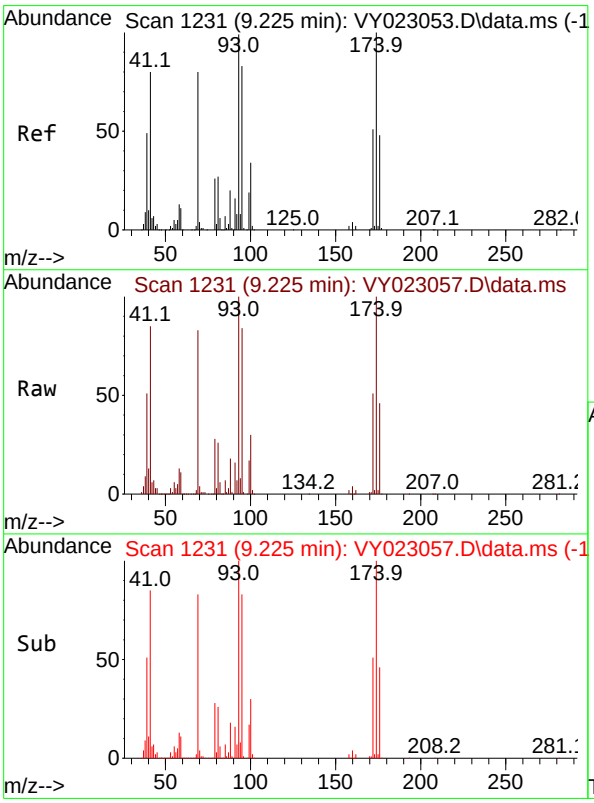
#45
1,2-Dichloropropane
Concen: 48.961 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 63 Resp: 262408

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.3	37.9

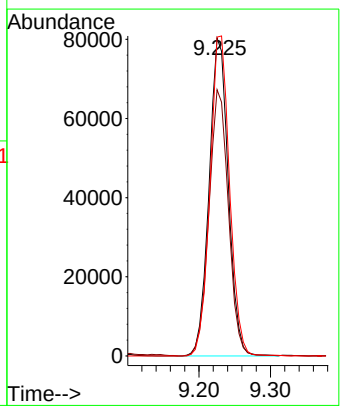


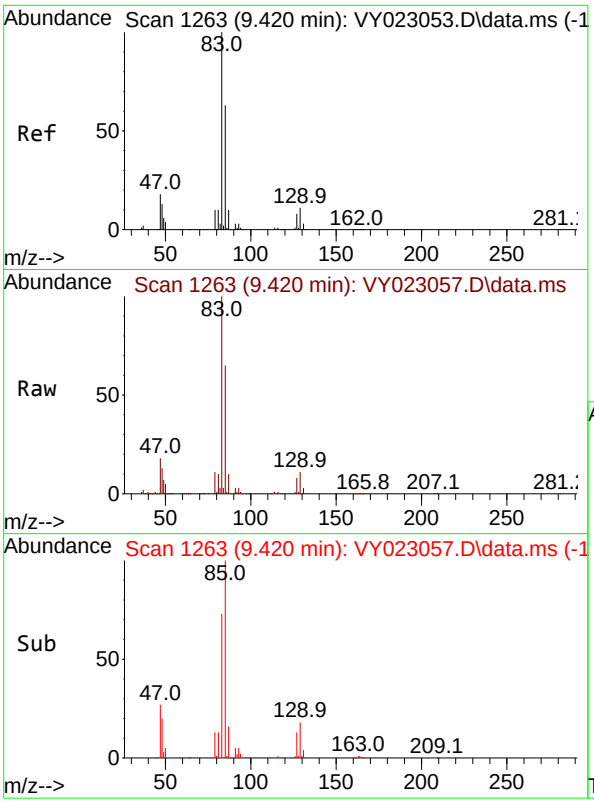


#46
Dibromomethane
Concen: 48.679 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



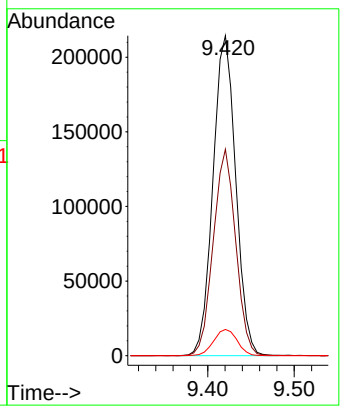


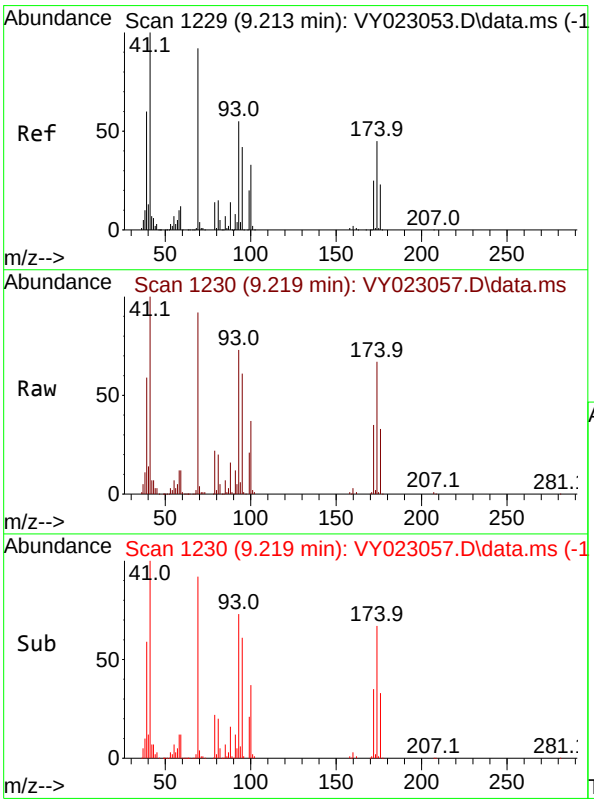
#47
Bromodichloromethane
Concen: 49.463 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

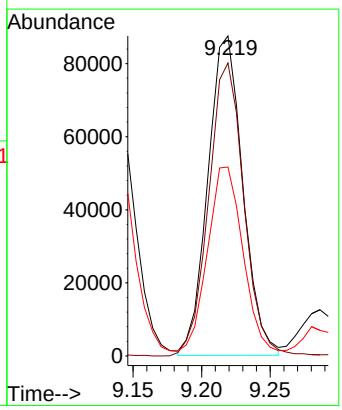


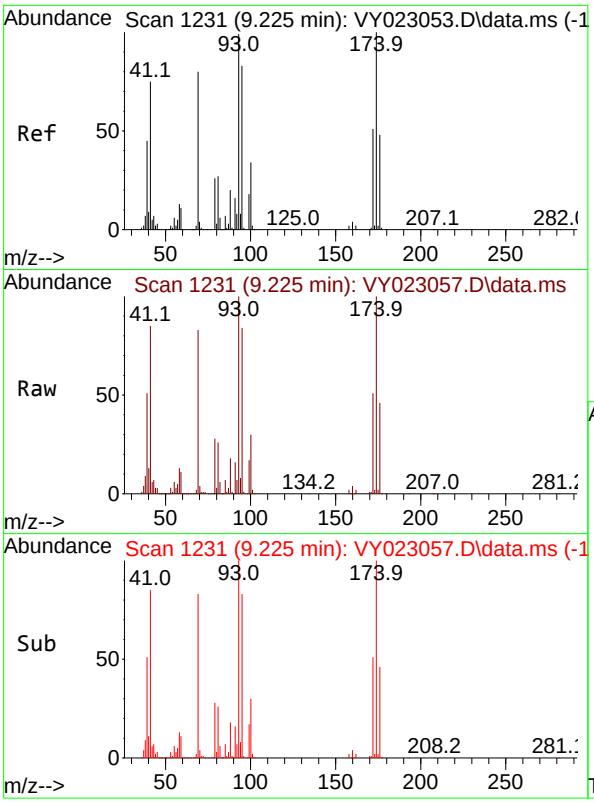


#48
Methyl methacrylate
Concen: 50.520 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



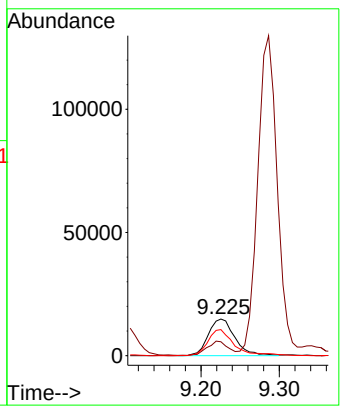


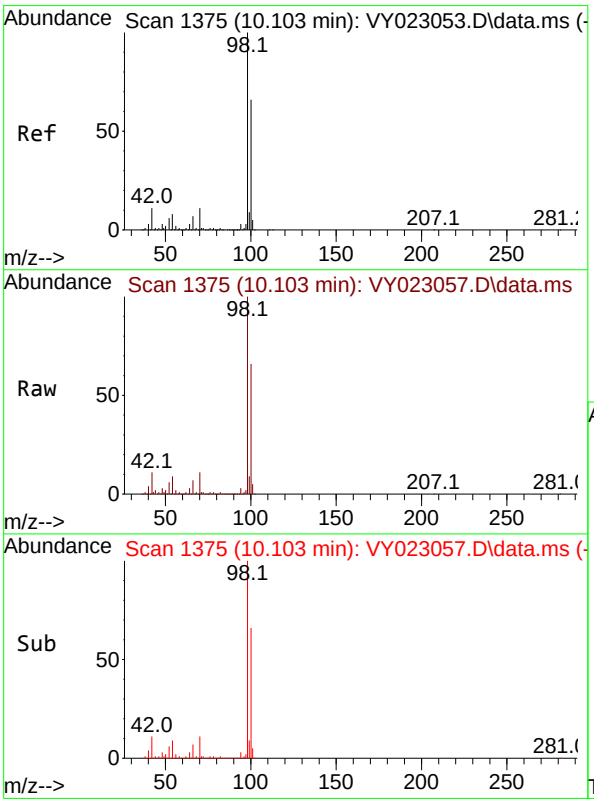
#49
1,4-Dioxane
Concen: 971.749 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

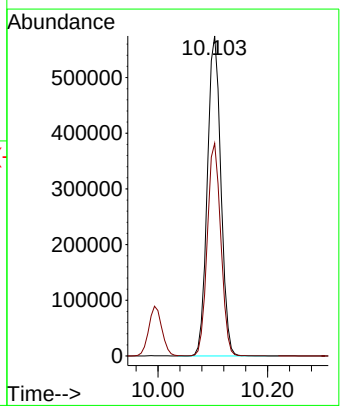


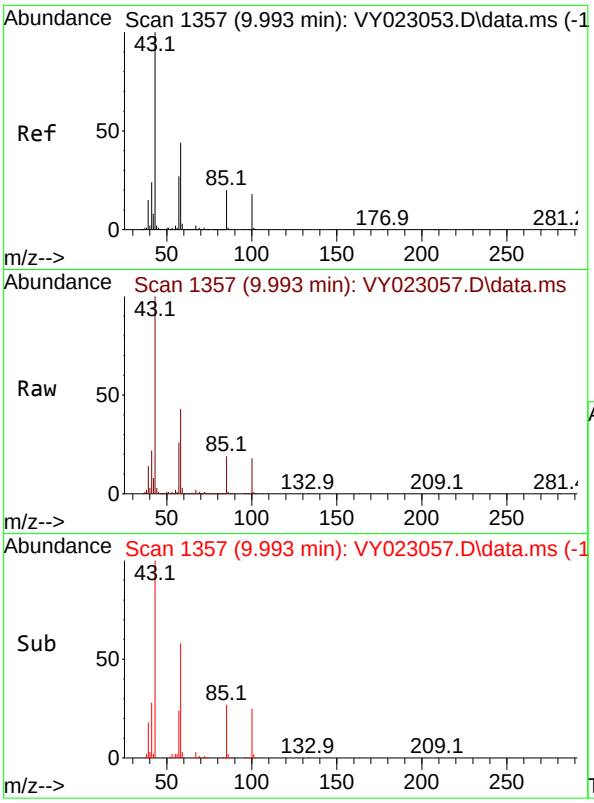


#50
Toluene-d8
Concen: 49.306 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 98 Resp: 979510

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.3	78.5



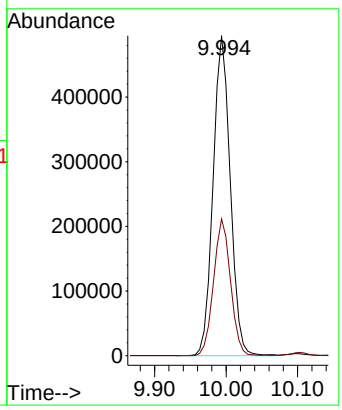


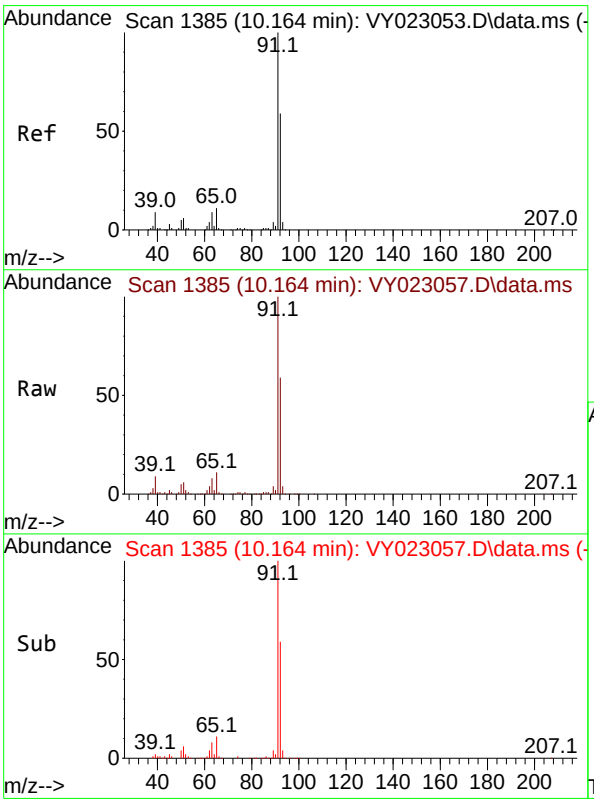
#51
4-Methyl-2-Pentanone
Concen: 248.943 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 823949

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3

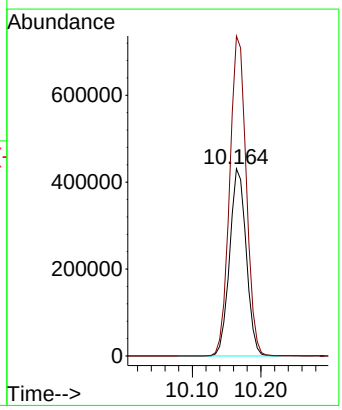


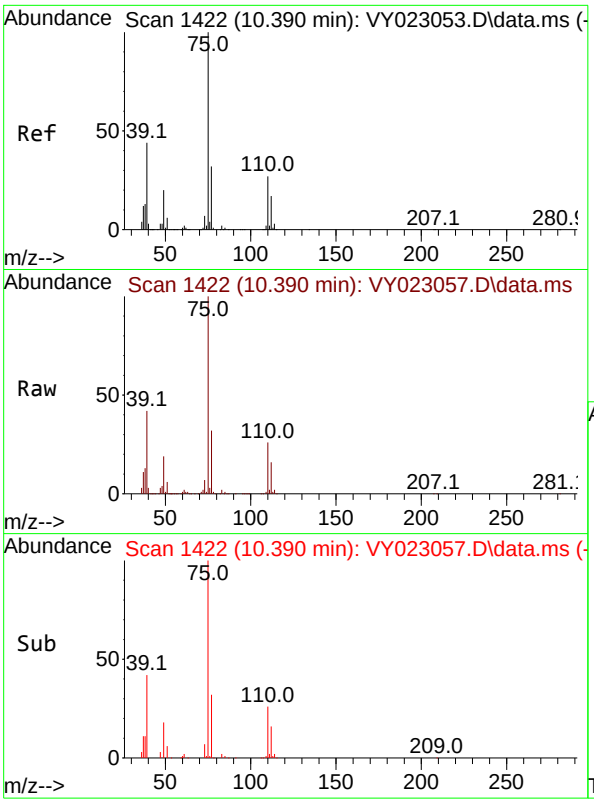


#52
Toluene
Concen: 48.963 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 92 Resp: 724356

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.4	204.6



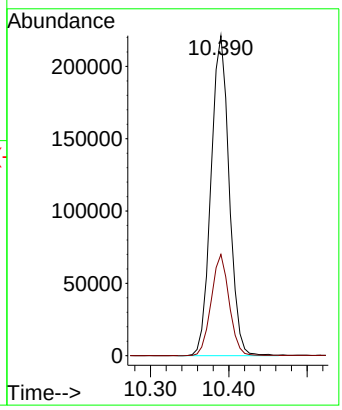


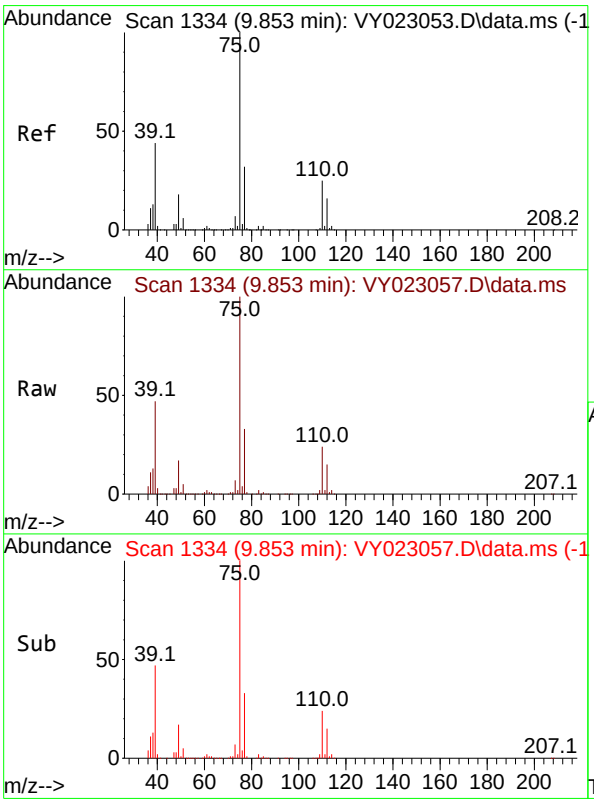
#53
t-1,3-Dichloropropene
Concen: 49.699 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 75 Resp: 356228

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5

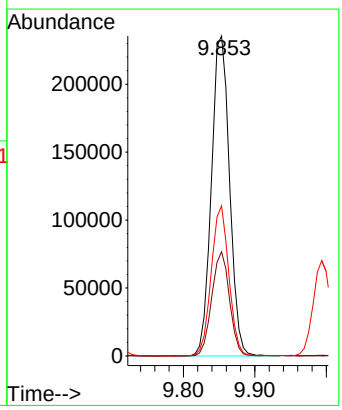


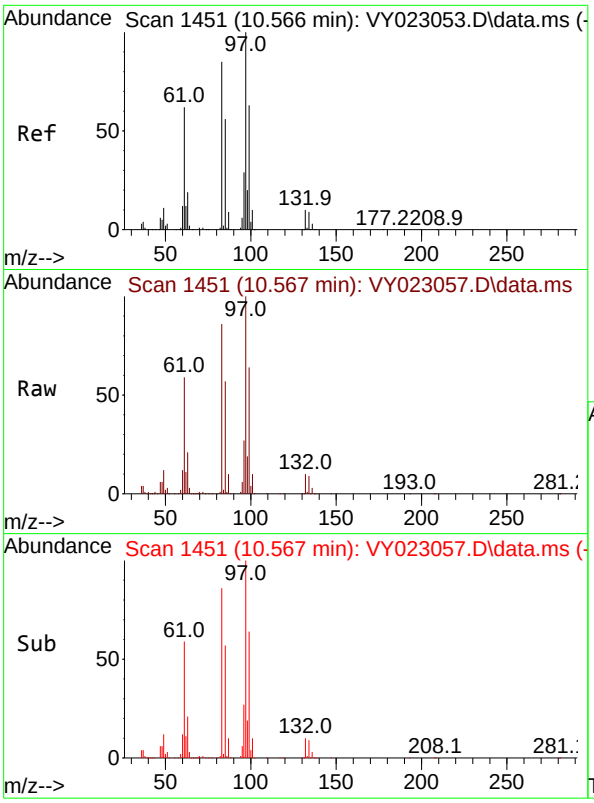


#54
cis-1,3-Dichloropropene
Concen: 48.965 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



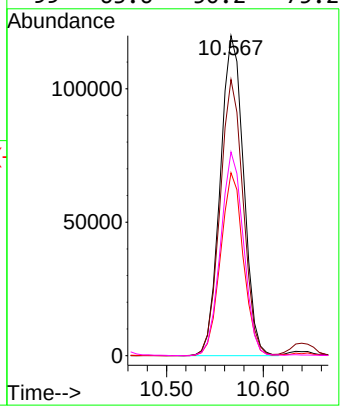


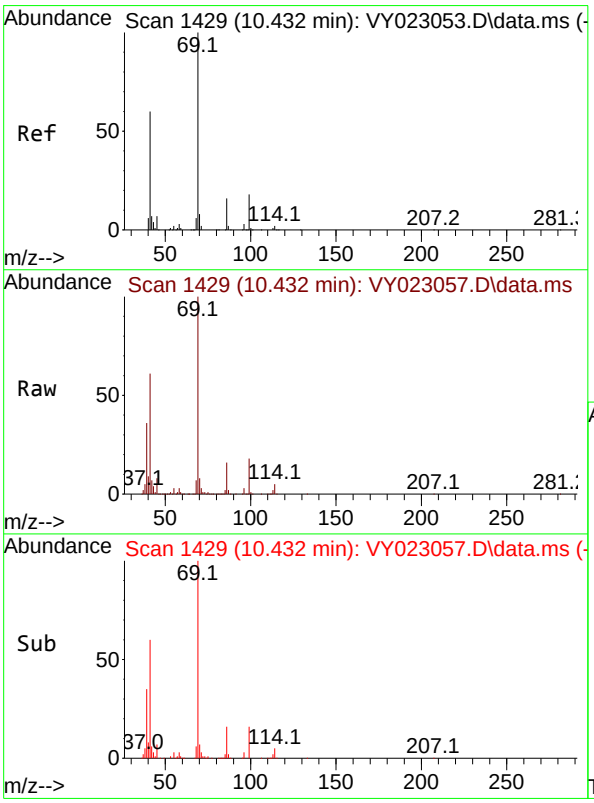
#55
1,1,2-Trichloroethane
Concen: 48.867 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

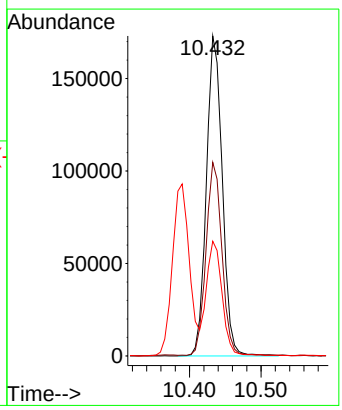


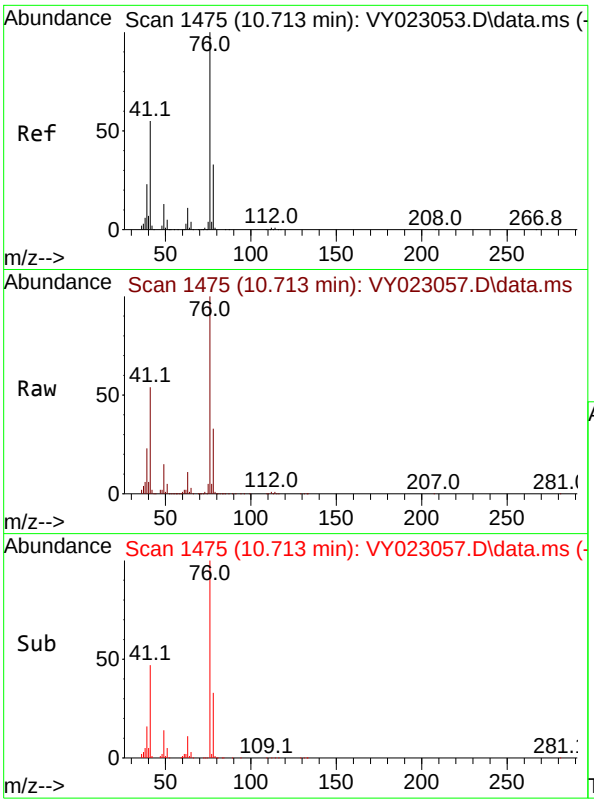


#56
Ethyl methacrylate
Concen: 50.779 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



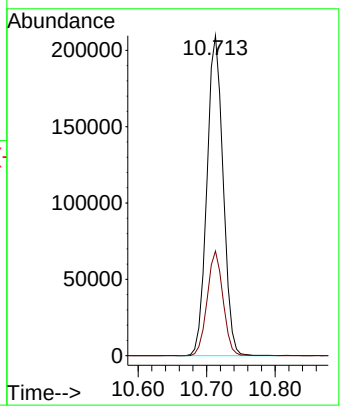


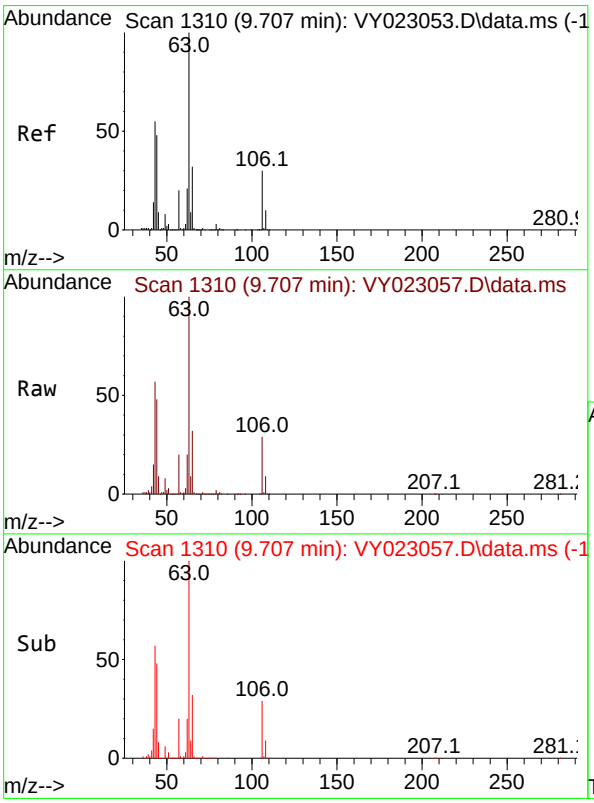
#57
1,3-Dichloropropane
Concen: 49.228 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 76 Resp: 343649

Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.0	39.0

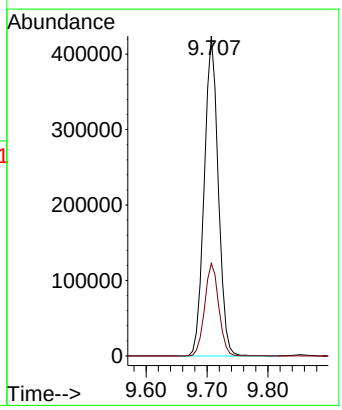


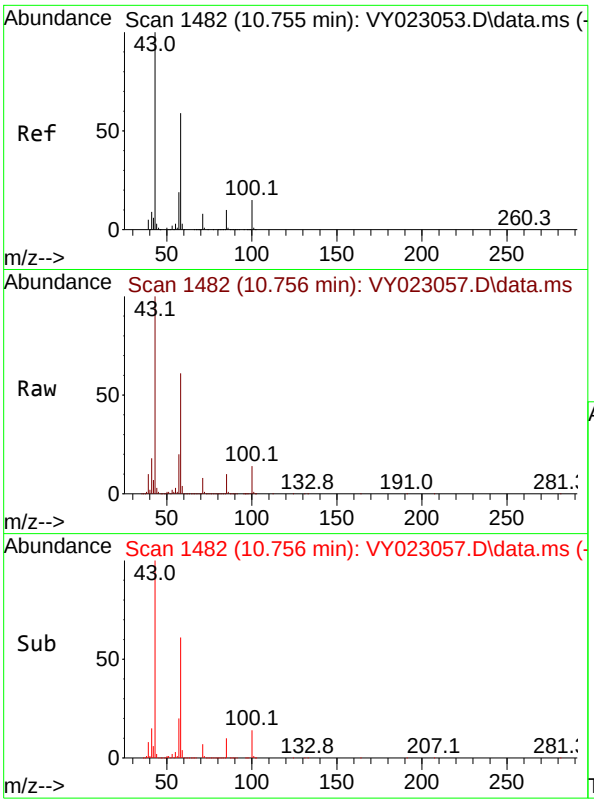


#58
2-Chloroethyl Vinyl ether
Concen: 273.240 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 678865

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.2	34.8



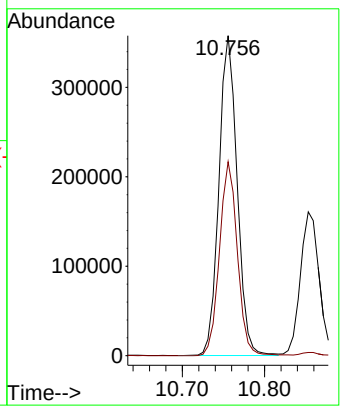


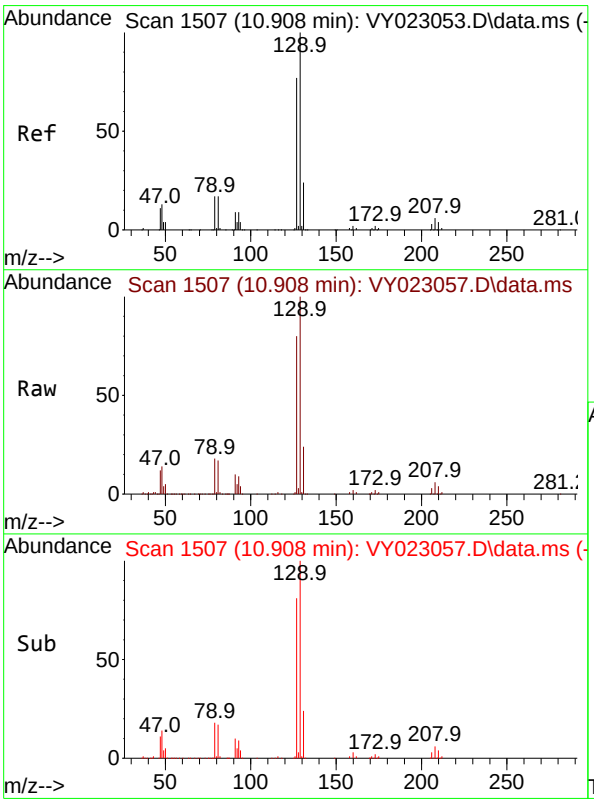
#59
2-Hexanone
Concen: 244.812 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 43 Resp: 551743

Ion	Ratio	Lower	Upper
43	100		
58	59.5	29.5	88.5

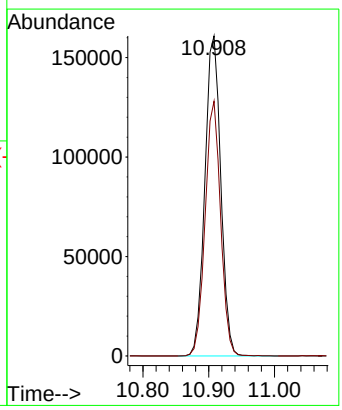


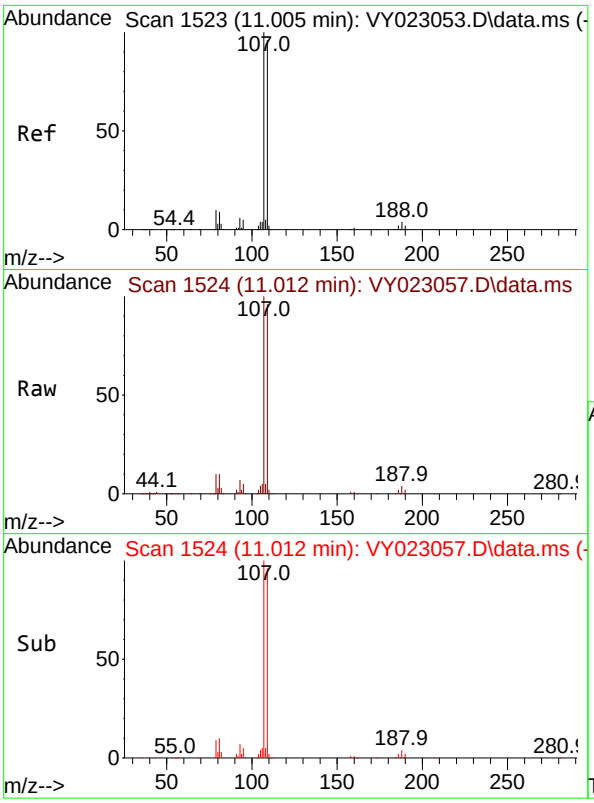


#60
Dibromochloromethane
Concen: 49.810 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:129 Resp: 270536

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.5	115.5



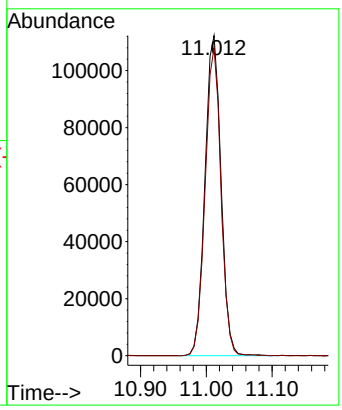


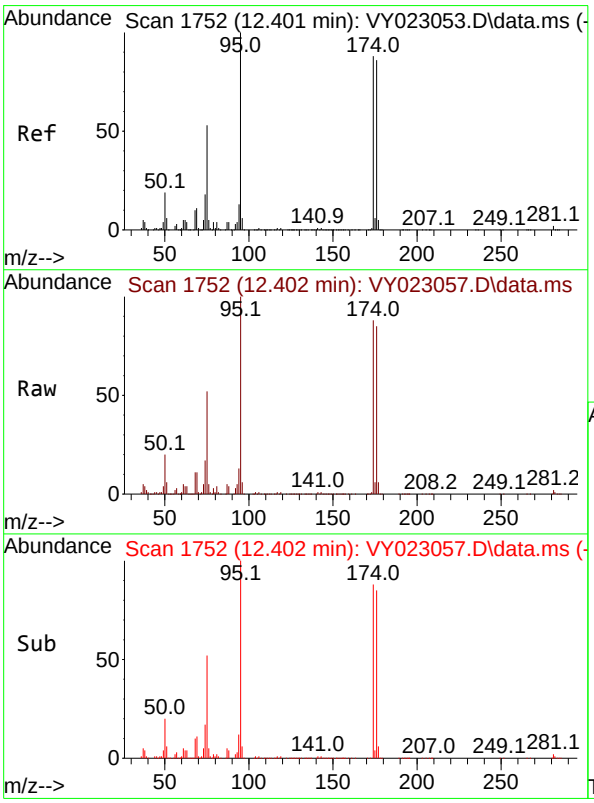
#61
1,2-Dibromoethane
Concen: 49.197 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:107 Resp: 190334

Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.6	113.4

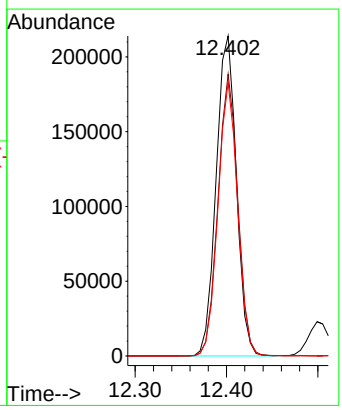


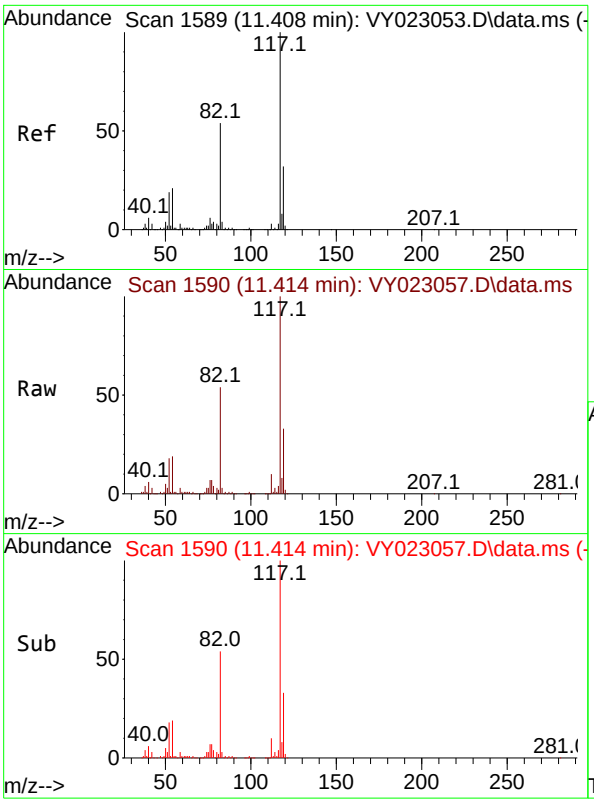


#62
4-Bromofluorobenzene
Concen: 51.500 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



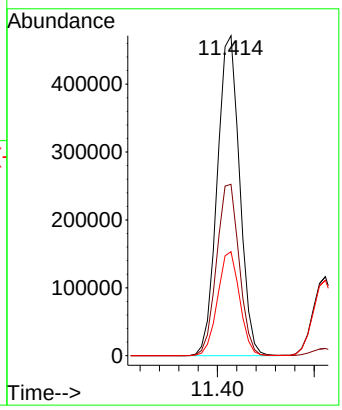


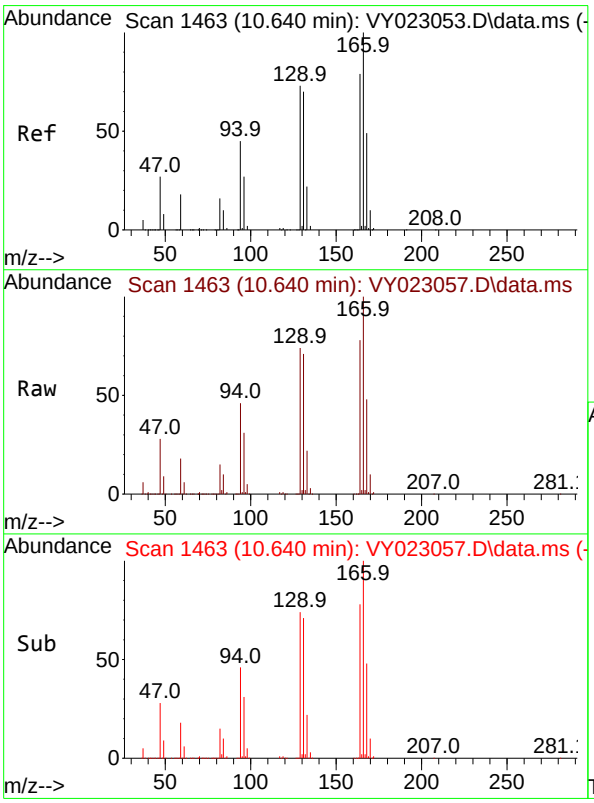
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

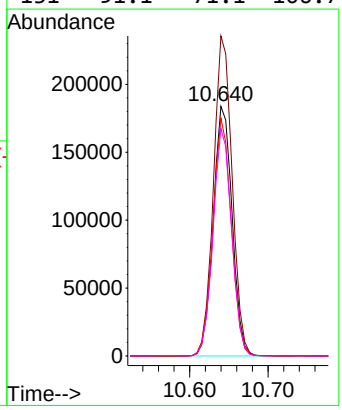


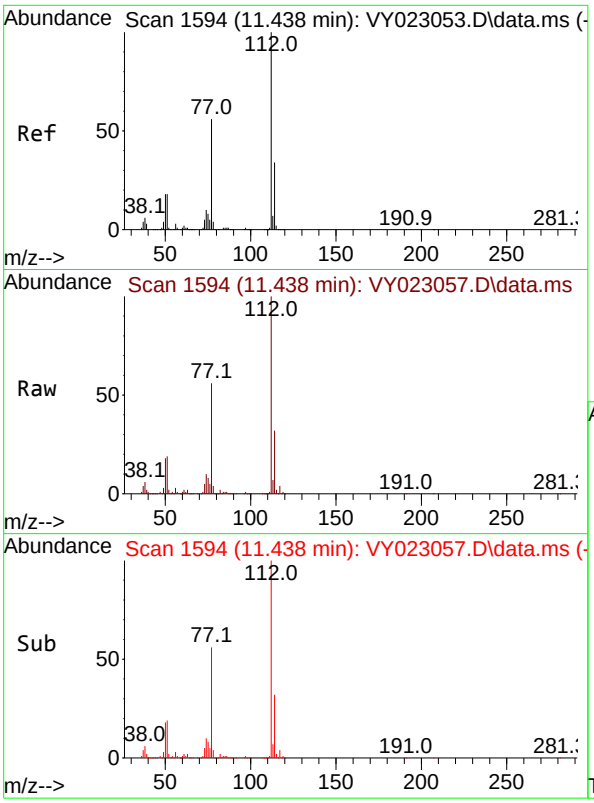


#64
Tetrachloroethene
Concen: 45.512 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



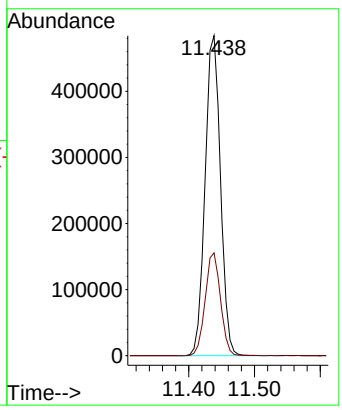


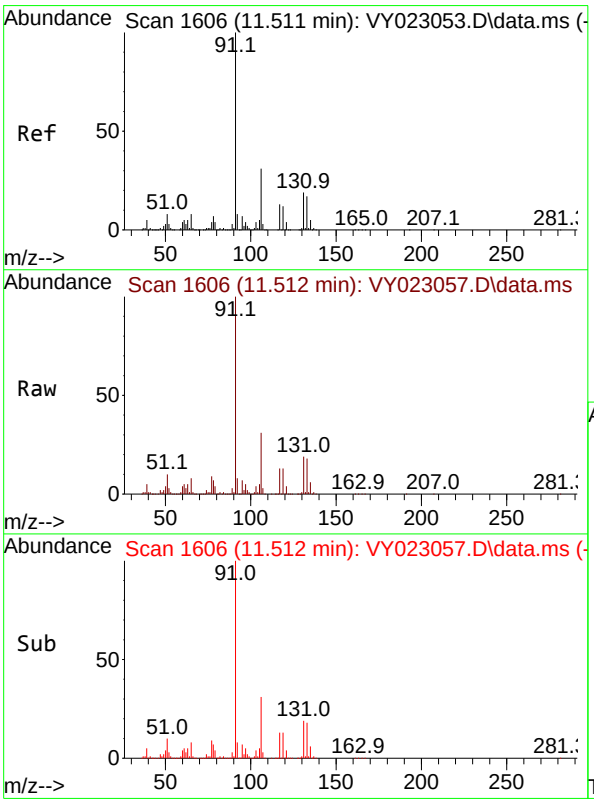
#65
Chlorobenzene
Concen: 48.275 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:112 Resp: 787799

Ion	Ratio	Lower	Upper
112	100		
114	32.2	27.0	40.4

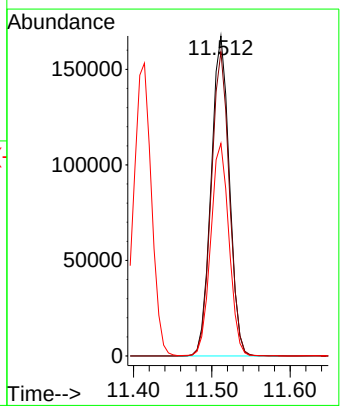


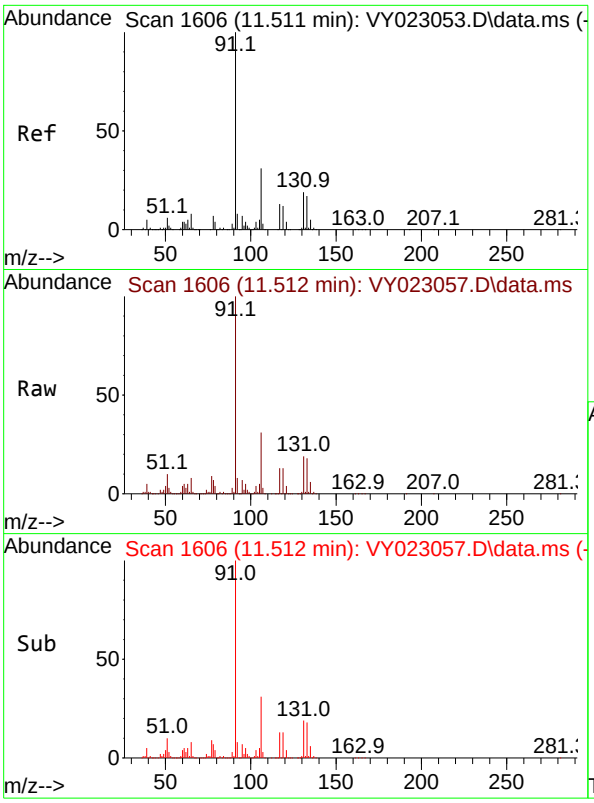


#66
1,1,1,2-Tetrachloroethane
Concen: 48.815 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



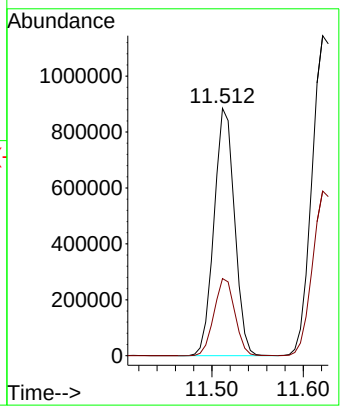


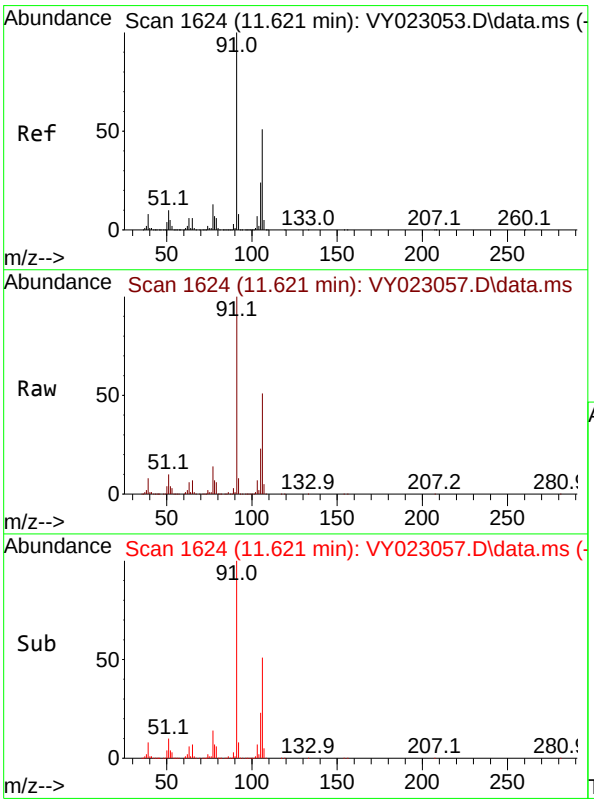
#67
Ethyl Benzene
Concen: 49.163 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 91 Resp: 1380648

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.0	37.4

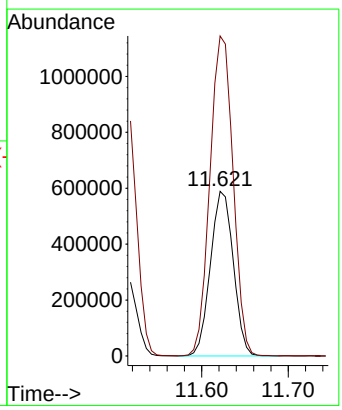


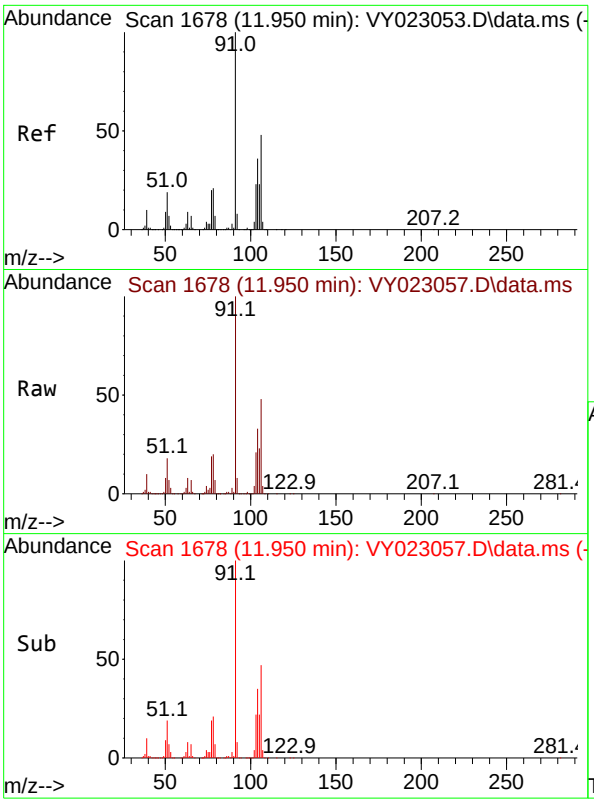


#68
m/p-Xylenes
Concen: 98.515 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:106 Resp: 1080541

Ion	Ratio	Lower	Upper
106	100		
91	197.0	158.6	238.0



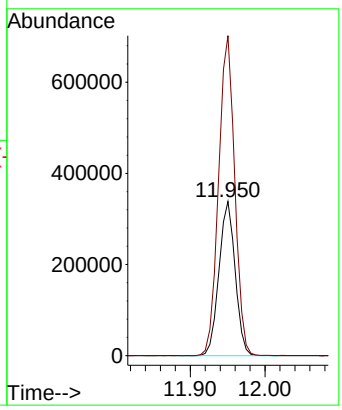


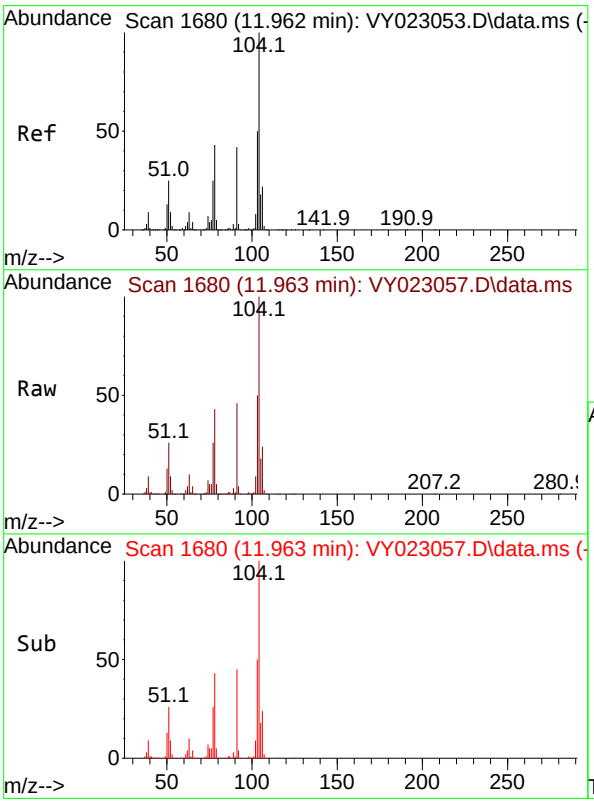
#69
o-Xylene
Concen: 49.645 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:106 Resp: 509991

Ion	Ratio	Lower	Upper
106	100		
91	207.4	103.2	309.4

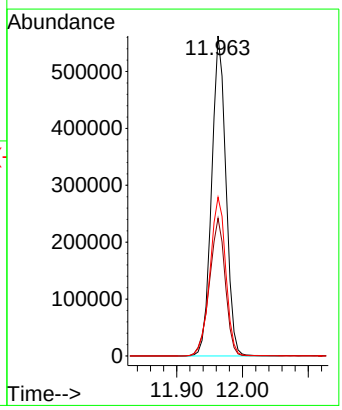


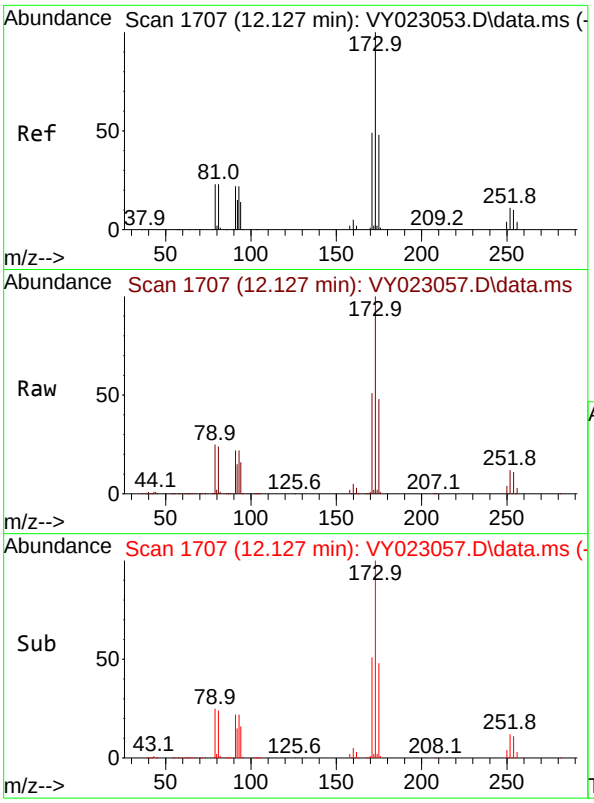


#70
Styrene
Concen: 50.733 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



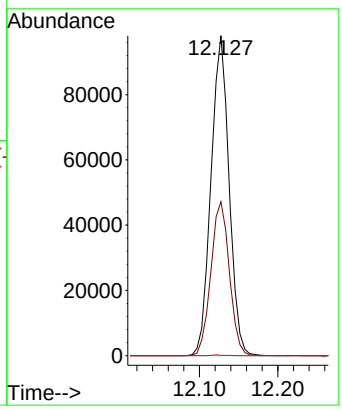


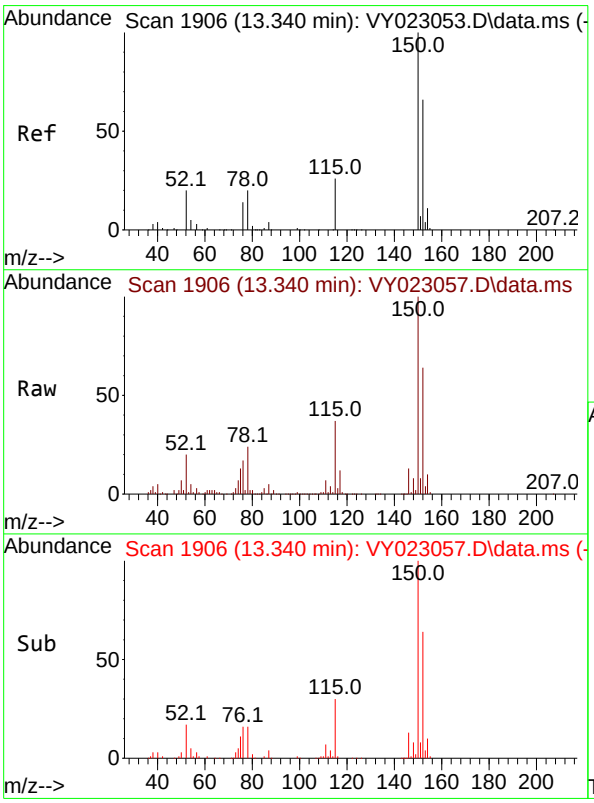
#71
Bromoform
Concen: 48.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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#

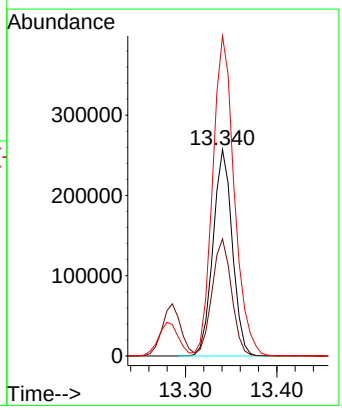


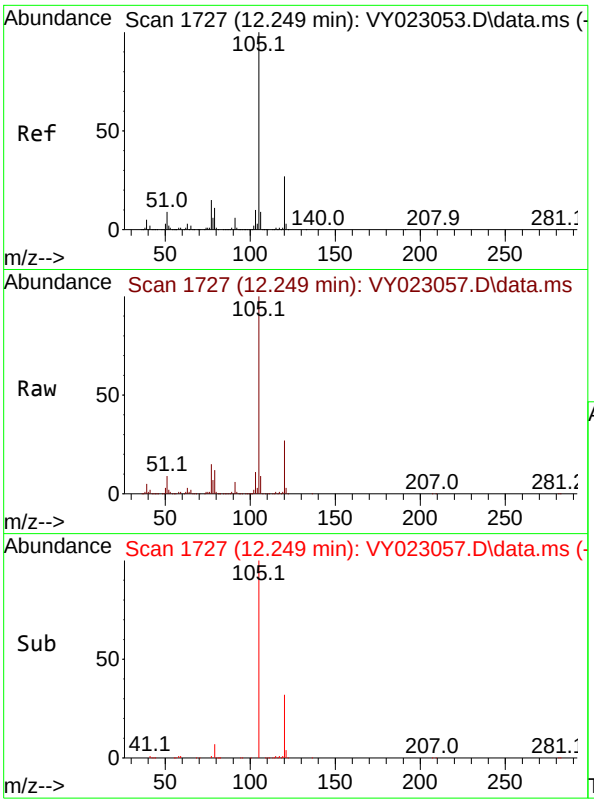


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



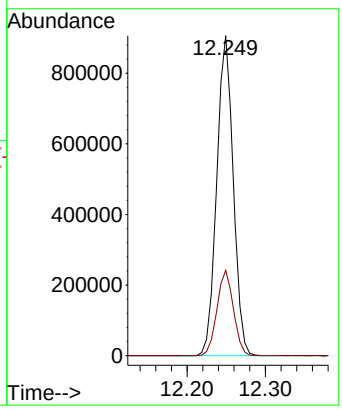


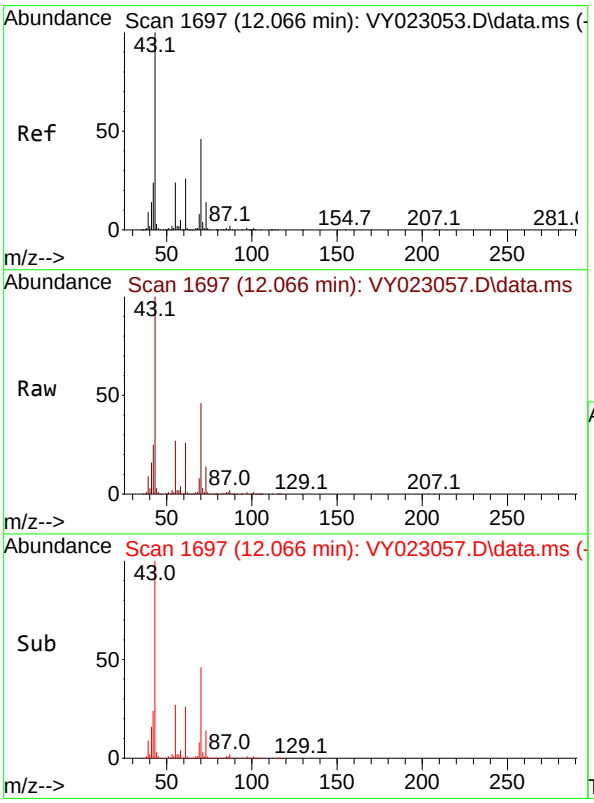
#73
Isopropylbenzene
Concen: 49.876 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:105 Resp: 1327070

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.4	40.2

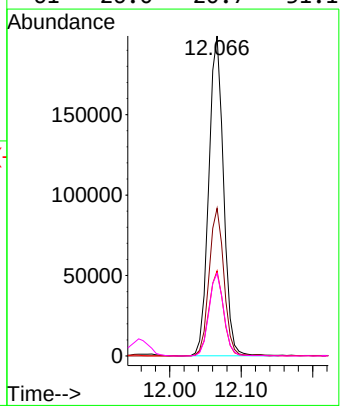


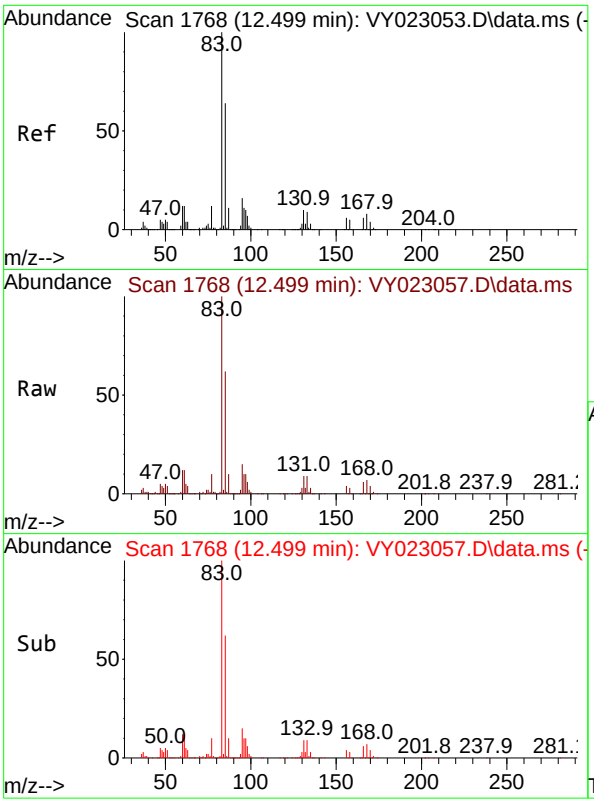


#74
N-amyl acetate
Concen: 50.529 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



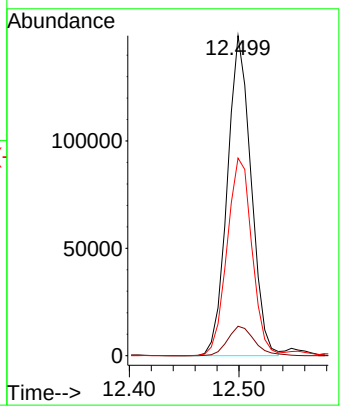


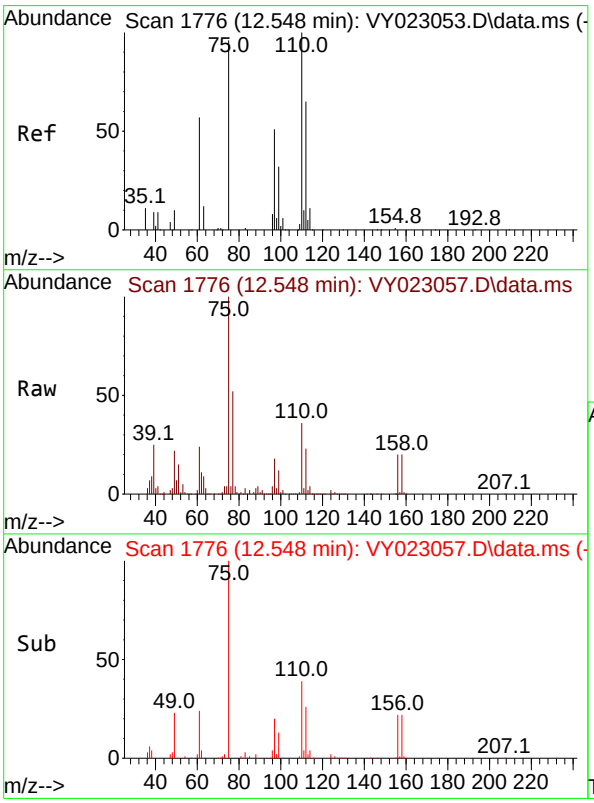
#75
1,1,2,2-Tetrachloroethane
Concen: 49.350 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

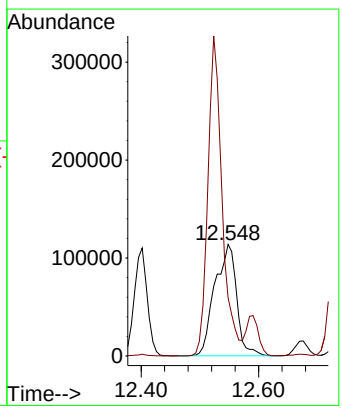


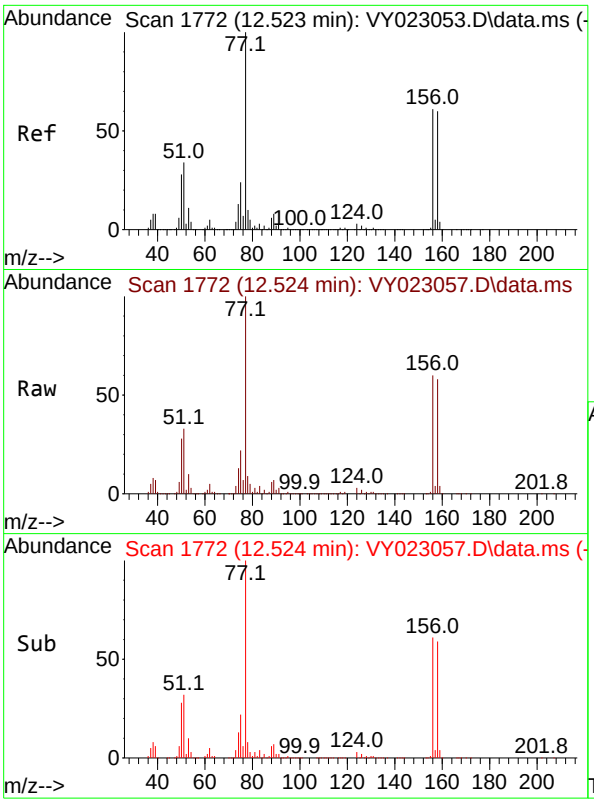


#76
1,2,3-Trichloropropane
Concen: 80.862 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 294203

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



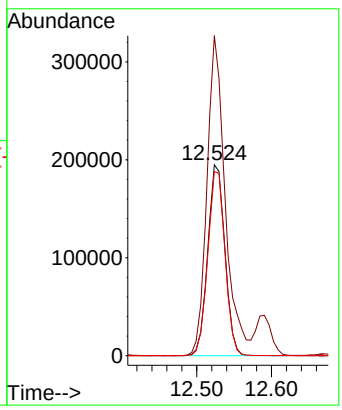


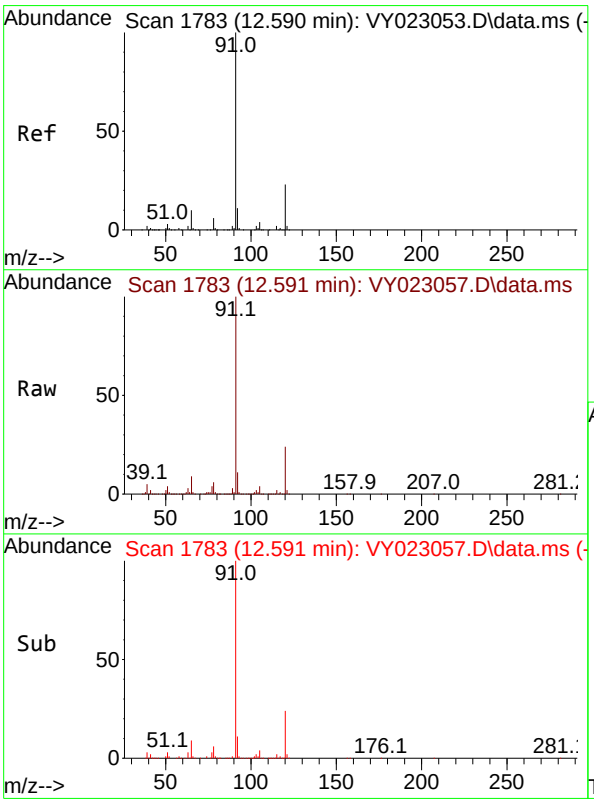
#77
Bromobenzene
Concen: 49.004 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

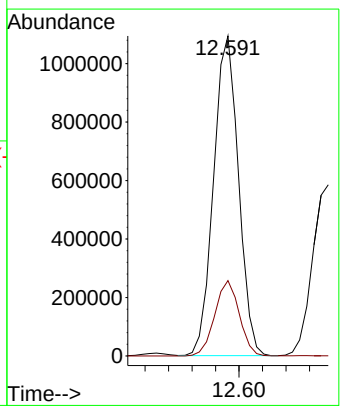


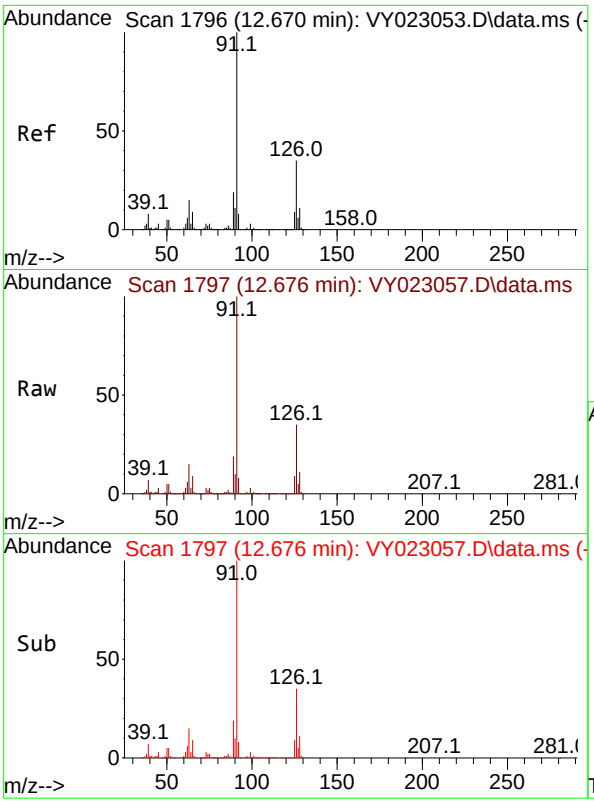


#78
n-propylbenzene
Concen: 50.853 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 1610911

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5



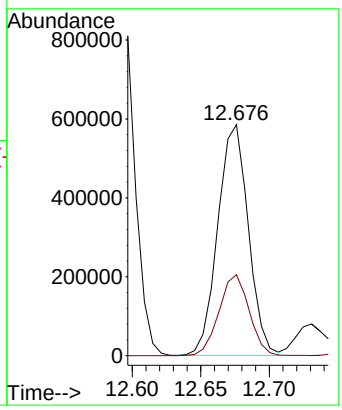


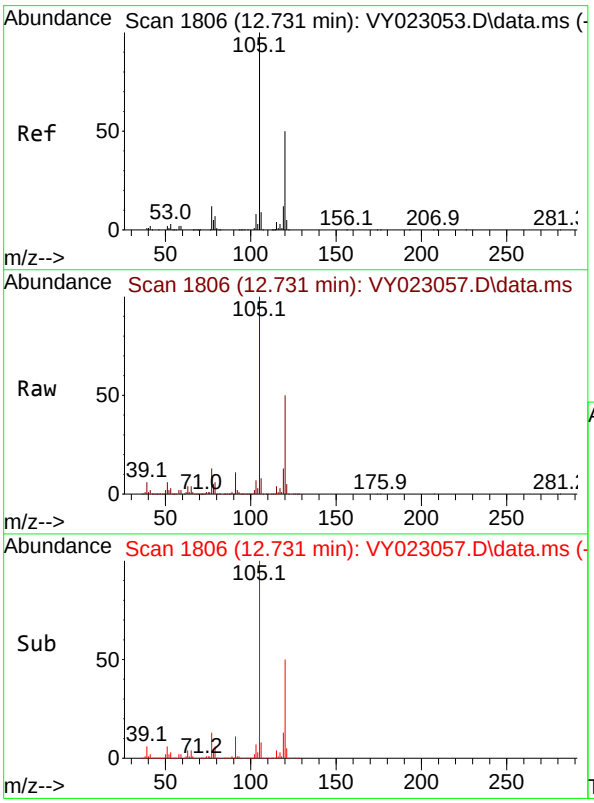
#79
2-Chlorotoluene
Concen: 49.898 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion: 91 Resp: 905657

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

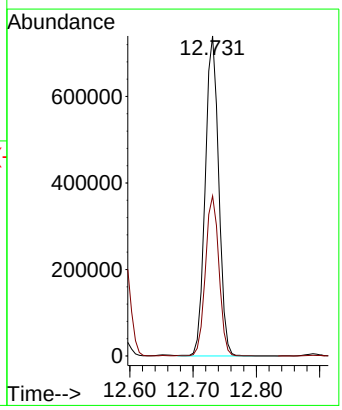


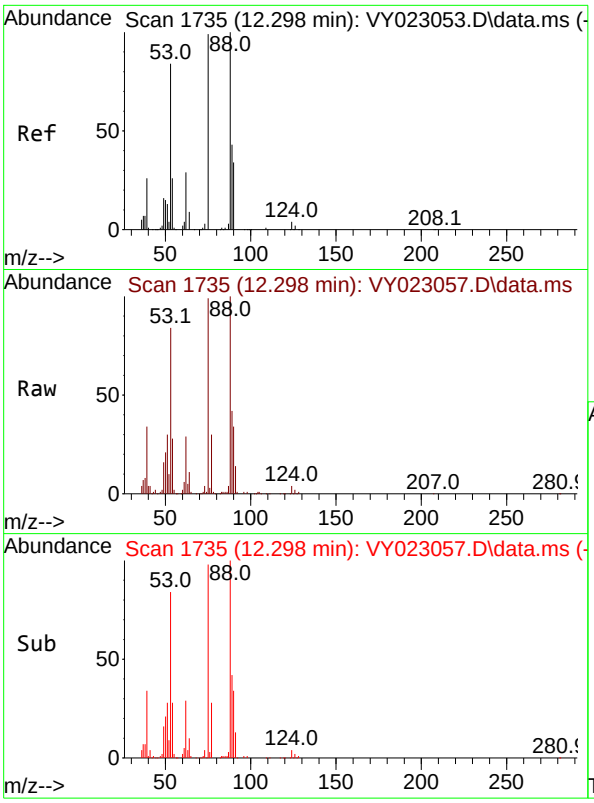


#80
1,3,5-Trimethylbenzene
Concen: 50.916 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1094902

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4



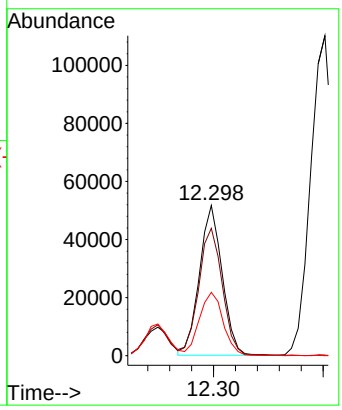


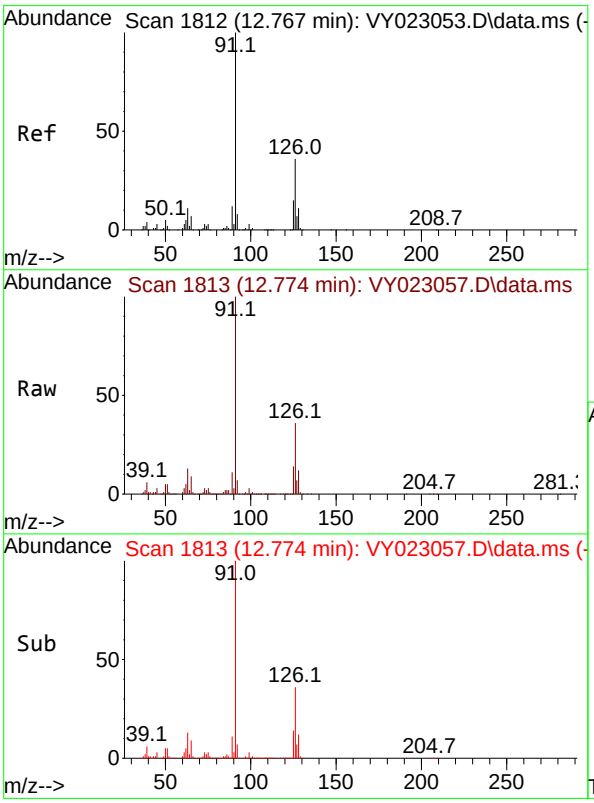
#81
trans-1,4-Dichloro-2-butene
Concen: 49.409 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

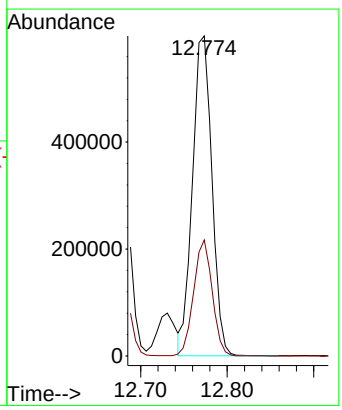


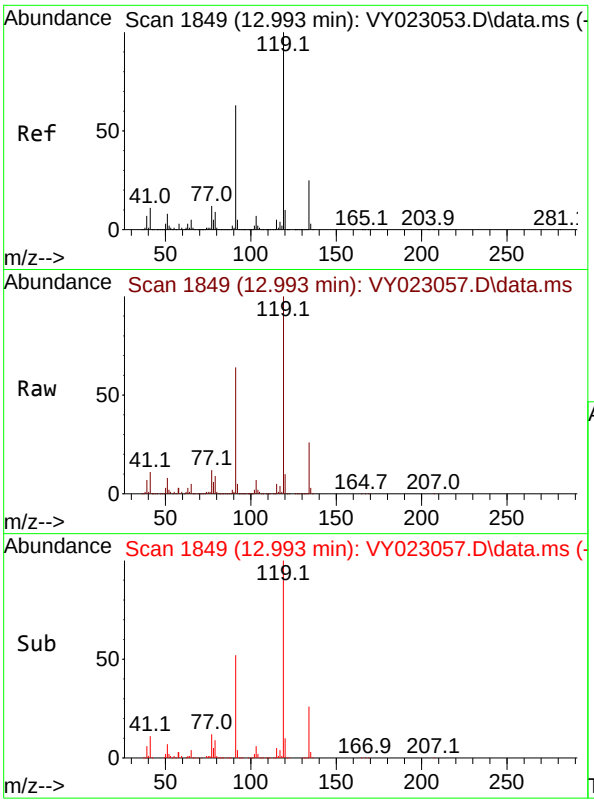


#82
4-Chlorotoluene
Concen: 49.505 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 932114

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0



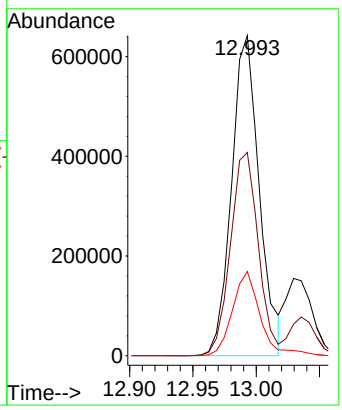


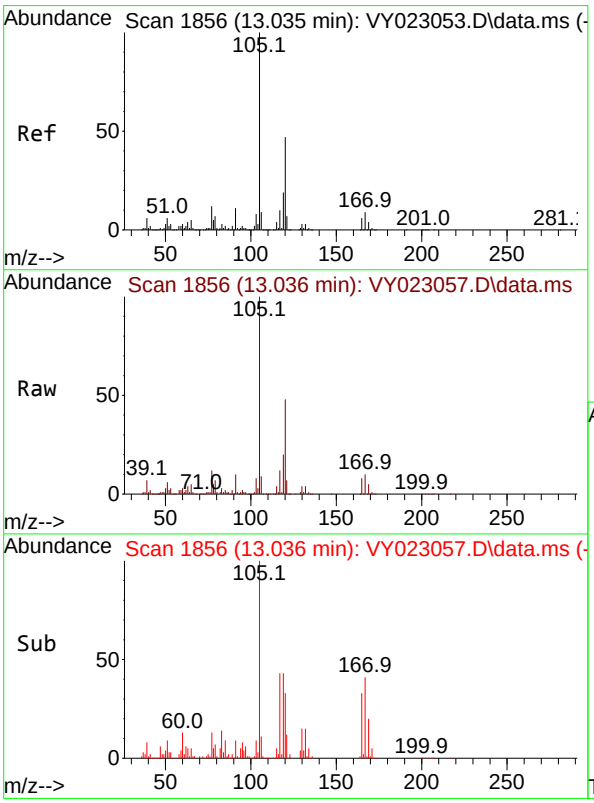
#83
tert-Butylbenzene
Concen: 50.443 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

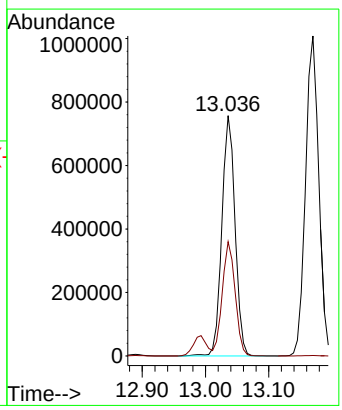


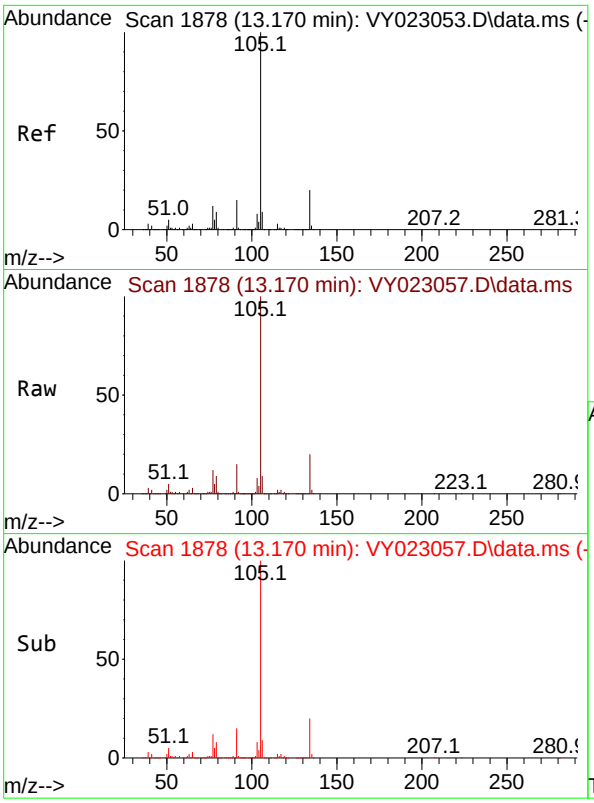


#84
1,2,4-Trimethylbenzene
Concen: 51.042 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1092616

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0



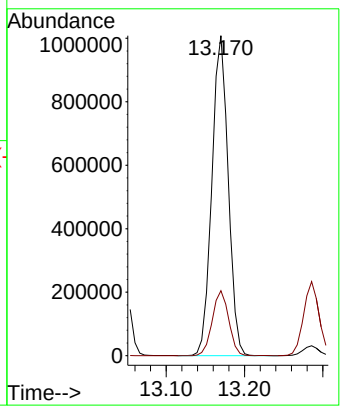


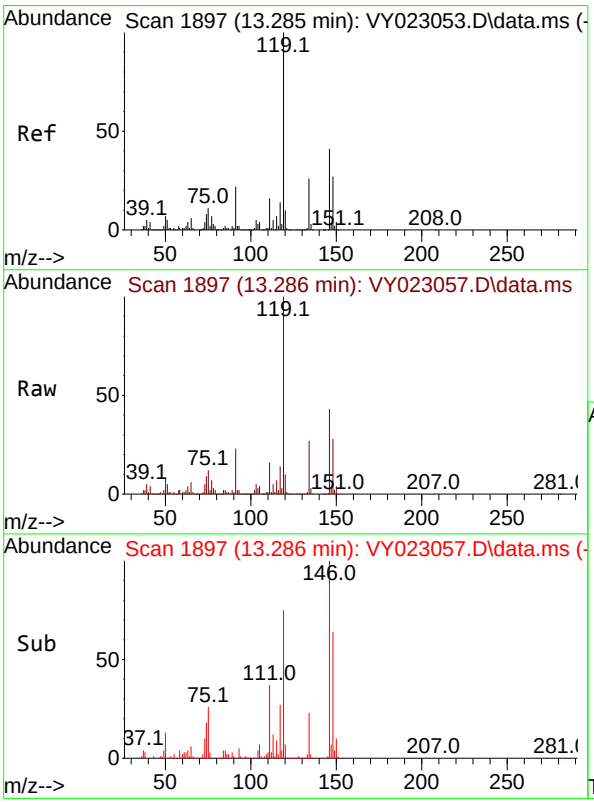
#85
sec-Butylbenzene
Concen: 51.154 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY081225

Tgt Ion:105 Resp: 1459437

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

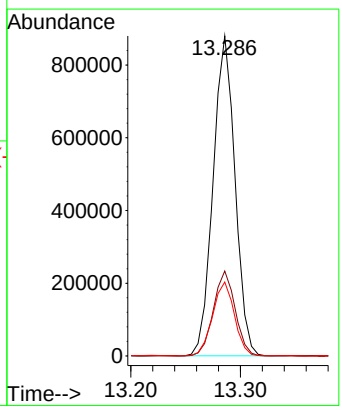


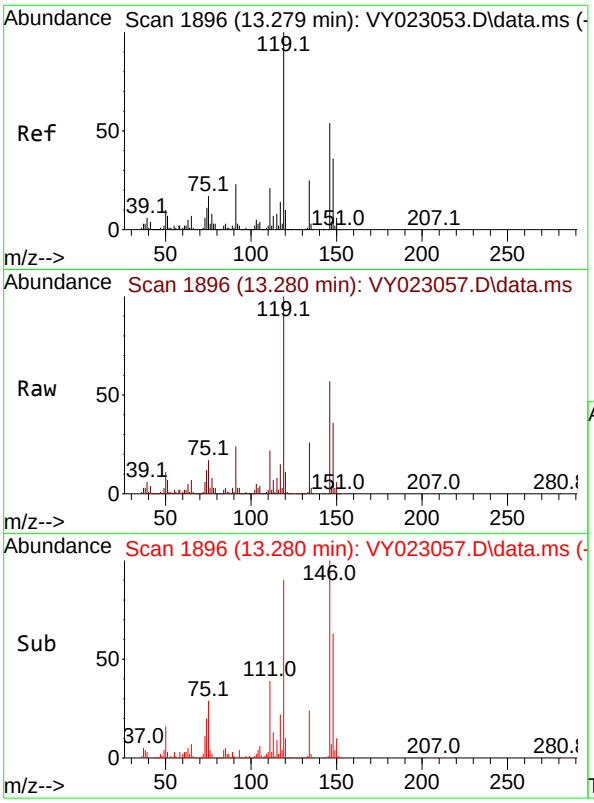


#86
p-Isopropyltoluene
Concen: 51.639 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



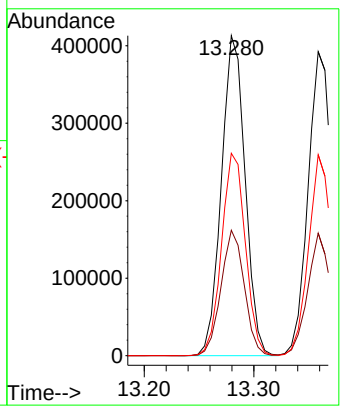


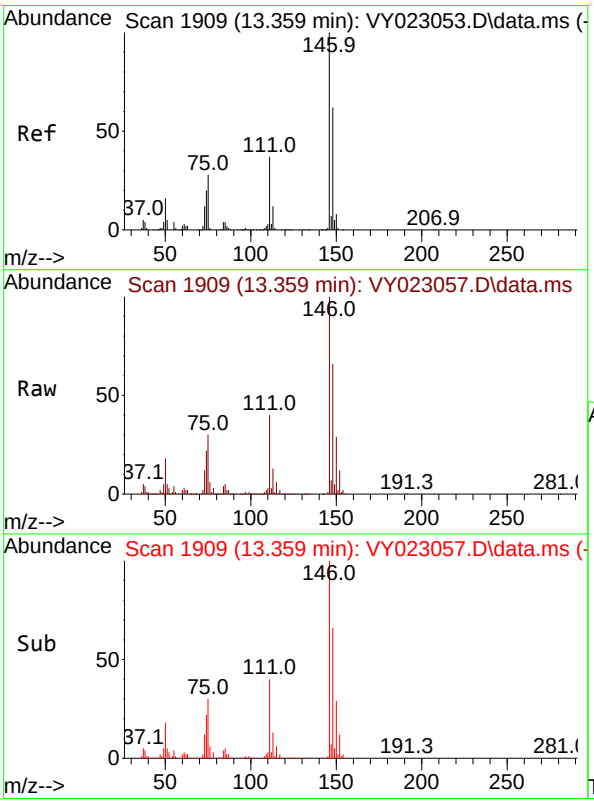
#87
1,3-Dichlorobenzene
Concen: 49.639 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

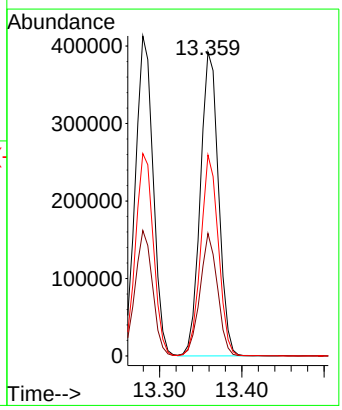


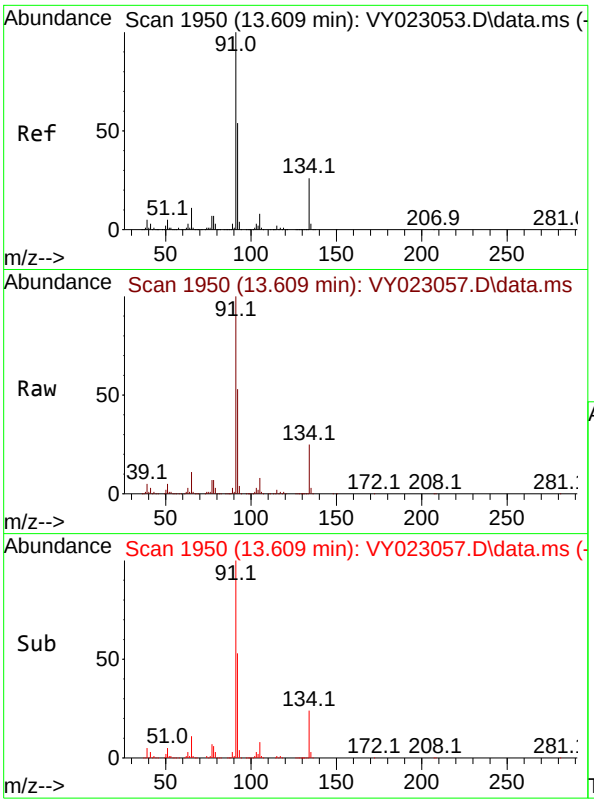


#88
1,4-Dichlorobenzene
Concen: 48.514 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



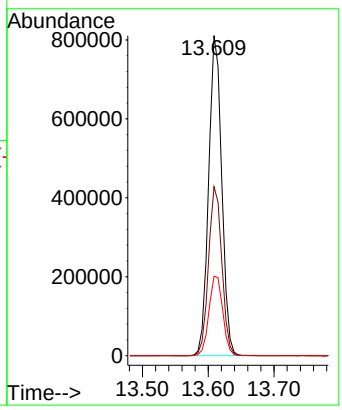


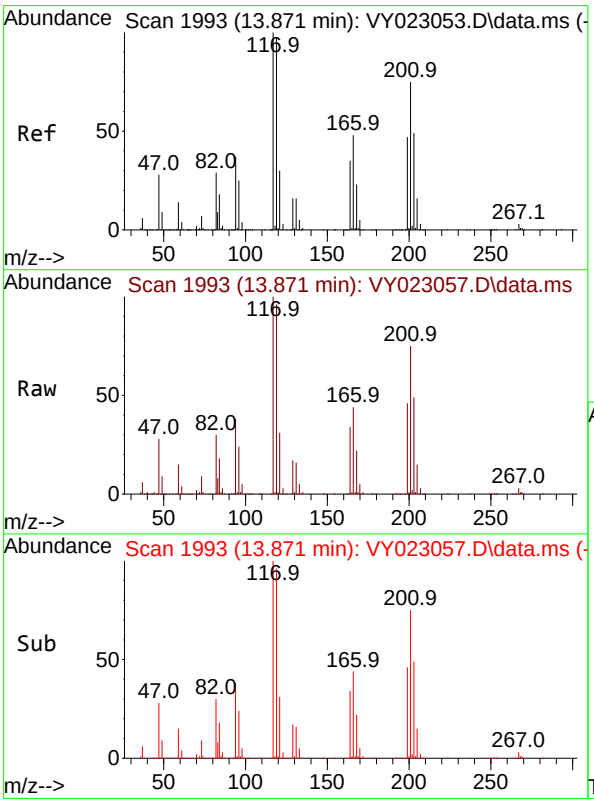
#89
n-Butylbenzene
Concen: 51.594 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

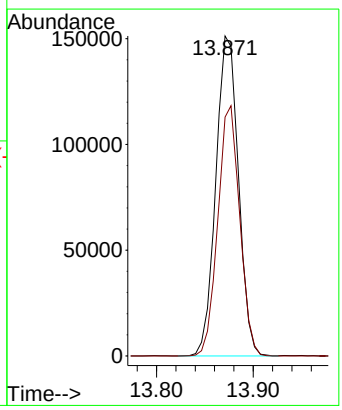


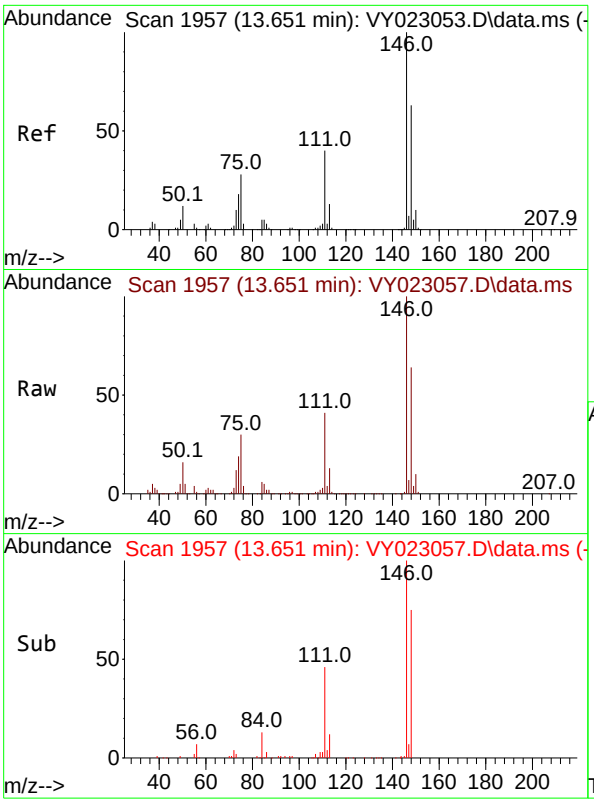


#90
Hexachloroethane
Concen: 50.617 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 245386

Ion	Ratio	Lower	Upper
117	100		
201	75.7	38.4	115.1



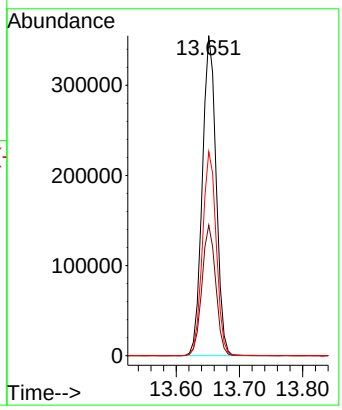


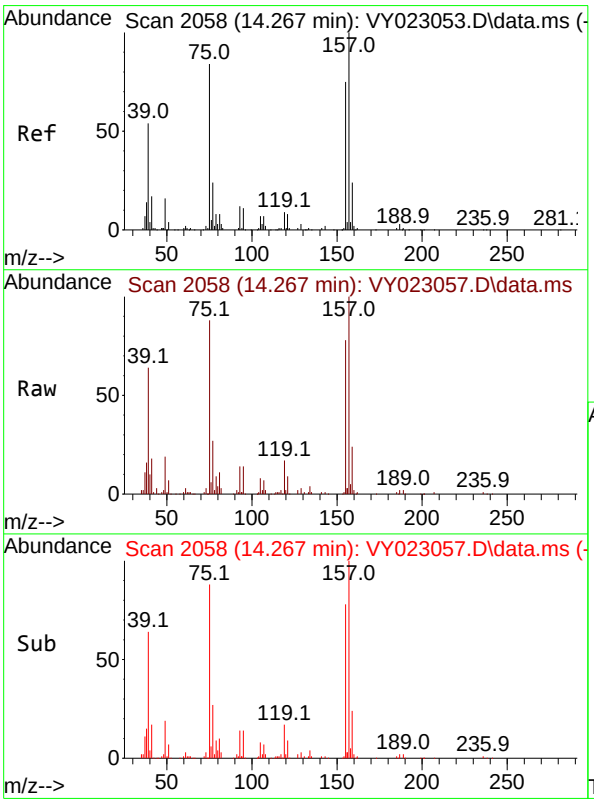
#91
1,2-Dichlorobenzene
Concen: 49.234 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

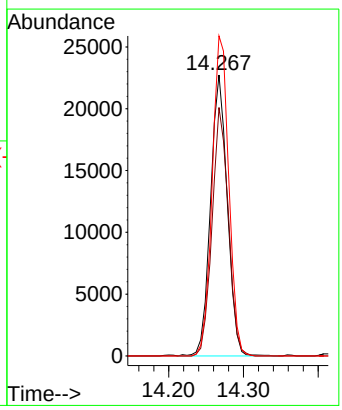


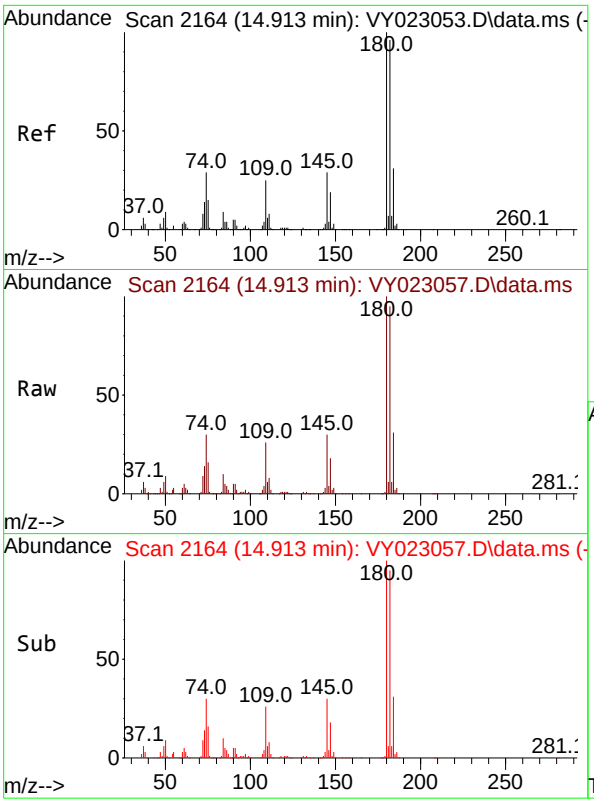


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.085 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



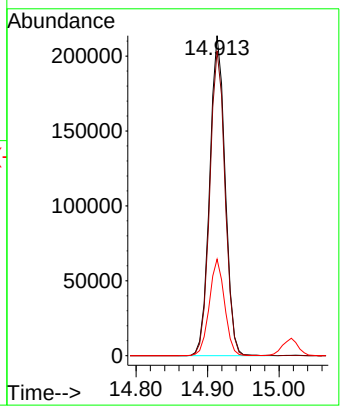


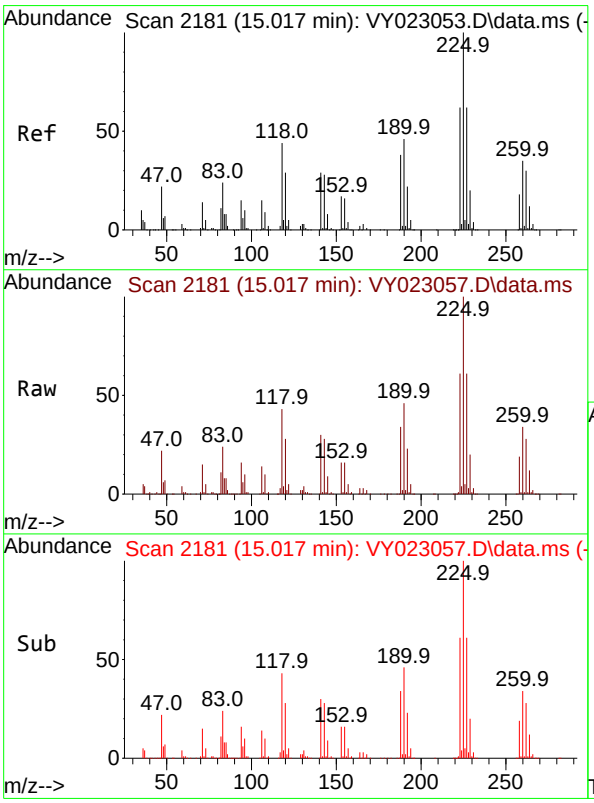
#93
1,2,4-Trichlorobenzene
Concen: 49.363 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

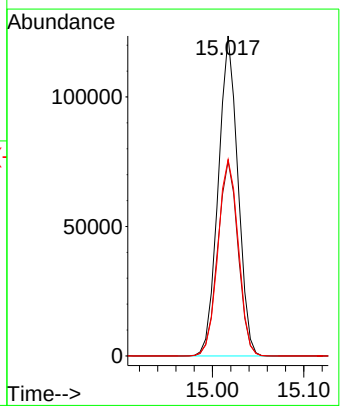


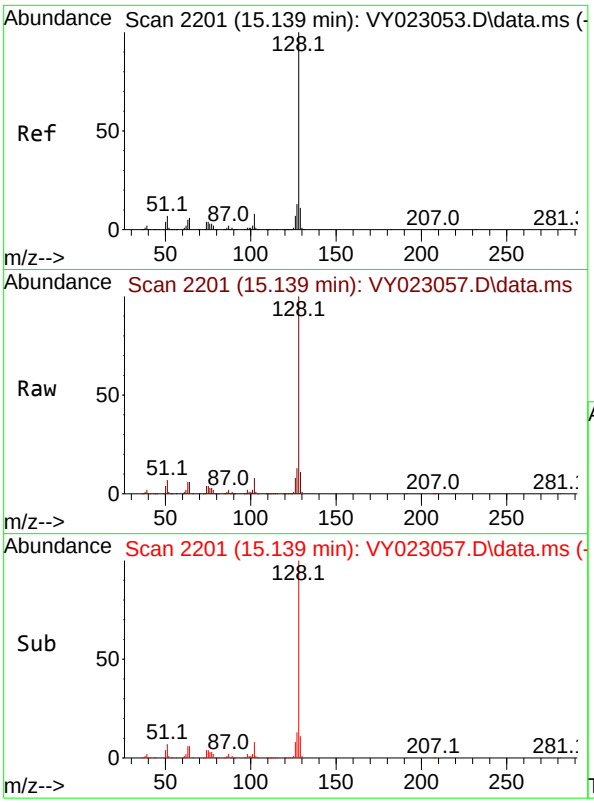


#94
Hexachlorobutadiene
Concen: 48.344 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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



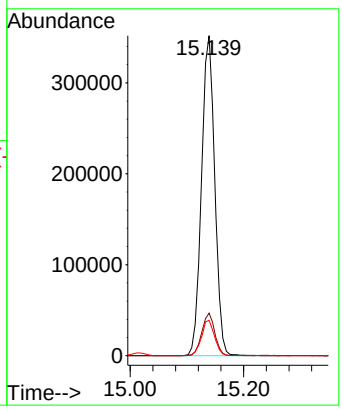


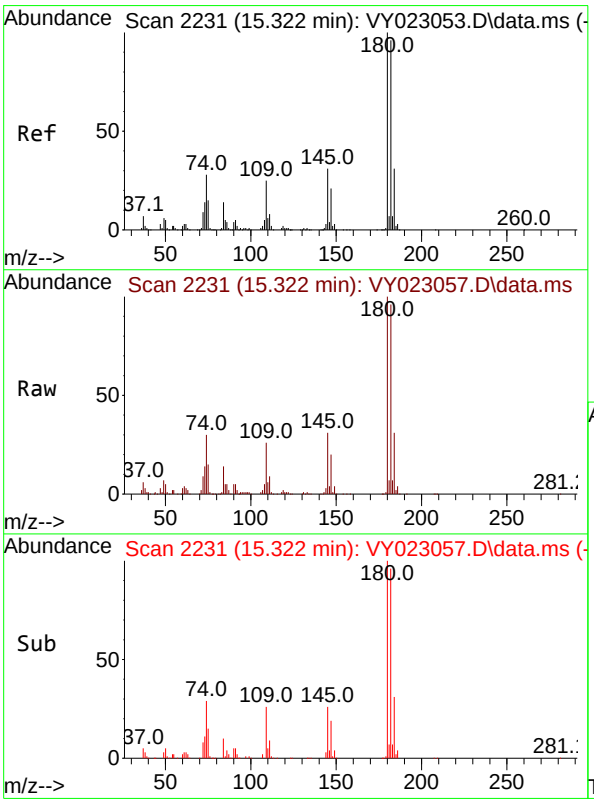
#95
Naphthalene
Concen: 51.623 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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

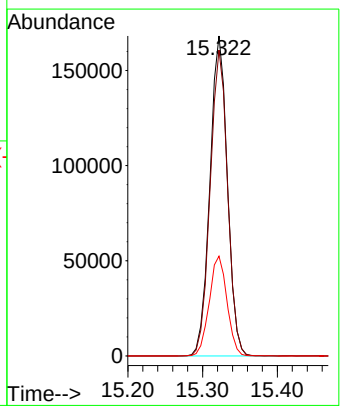




#96
1,2,3-Trichlorobenzene
Concen: 48.735 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

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\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	7.701	168	535817	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	845865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	741859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	361154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	254983	49.931	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.860%			
35) Dibromofluoromethane	7.628	113	254219	50.227	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.460%			
50) Toluene-d8	10.103	98	1014903	51.328	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.660%			
62) 4-Bromofluorobenzene	12.401	95	318073	50.020	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	179347	41.006	ug/l	97
3) Chloromethane	2.068	50	331973	46.863	ug/l	99
4) Vinyl Chloride	2.202	62	422026	48.195	ug/l	99
5) Bromomethane	2.592	94	308334	47.148	ug/l	97
6) Chloroethane	2.732	64	286888	49.279	ug/l	100
7) Trichlorofluoromethane	3.049	101	505891	47.512	ug/l	98
8) Diethyl Ether	3.452	74	128306	45.547	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	249222	47.444	ug/l	99
10) Methyl Iodide	3.994	142	285188	50.312	ug/l	99
11) Tert butyl alcohol	4.860	59	73451	209.916	ug/l	100
12) 1,1-Dichloroethene	3.781	96	245840	47.613	ug/l	99
13) Acrolein	3.647	56	106236	207.313	ug/l	98
14) Allyl chloride	4.378	41	367684	48.395	ug/l	99
15) Acrylonitrile	5.049	53	258896	226.059	ug/l	99
16) Acetone	3.866	43	280197	253.265	ug/l	97
17) Carbon Disulfide	4.098	76	802293	47.654	ug/l	100
18) Methyl Acetate	4.378	43	137365	41.723	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	620651	46.387	ug/l	99
20) Methylene Chloride	4.610	84	277983	48.260	ug/l	100
21) trans-1,2-Dichloroethene	5.104	96	281759	48.558	ug/l	99
22) Diisopropyl ether	6.018	45	804095	48.705	ug/l	98
23) Vinyl Acetate	5.951	43	2205285	241.571	ug/l	99
24) 1,1-Dichloroethane	5.909	63	489342	48.480	ug/l	99
25) 2-Butanone	6.890	43	345112	229.361	ug/l	99
26) 2,2-Dichloropropane	6.878	77	435291	49.978	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	319779	47.671	ug/l	98
28) Bromochloromethane	7.238	49	197112	49.222	ug/l	98
29) Tetrahydrofuran	7.256	42	209787	224.929	ug/l	99
30) Chloroform	7.414	83	499613	47.994	ug/l	98
31) Cyclohexane	7.695	56	440040	46.262	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	450437	48.765	ug/l	99
36) 1,1-Dichloropropene	7.829	75	365059	48.533	ug/l	99
37) Ethyl Acetate	6.976	43	143345	45.366	ug/l	98
38) Carbon Tetrachloride	7.817	117	399023	48.841	ug/l	97
39) Methylcyclohexane	9.103	83	486544	49.119	ug/l	98
40) Benzene	8.079	78	1128264	48.666	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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	82958	45.492 ug/l		97
42) 1,2-Dichloroethane	8.152	62	287233	47.637 ug/l		99
43) Isopropyl Acetate	8.195	43	294919	46.179 ug/l	#	85
44) Trichloroethene	8.859	130	290876	48.551 ug/l		98
45) 1,2-Dichloropropane	9.140	63	259199	48.591 ug/l		98
46) Dibromomethane	9.225	93	147784	48.268 ug/l		96
47) Bromodichloromethane	9.420	83	380333	48.276 ug/l		99
48) Methyl methacrylate	9.219	41	139803	45.747 ug/l		97
49) 1,4-Dioxane	9.225	88	32506	905.464 ug/l		94
51) 4-Methyl-2-Pentanone	9.993	43	766289	232.613 ug/l		100
52) Toluene	10.170	92	730616	49.619 ug/l		100
53) t-1,3-Dichloropropene	10.390	75	346881	48.623 ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	410557	48.667 ug/l		98
55) 1,1,2-Trichloroethane	10.566	97	189812	46.330 ug/l		95
56) Ethyl methacrylate	10.438	69	252654	48.194 ug/l		99
57) 1,3-Dichloropropane	10.713	76	328997	47.351 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	609788	246.593 ug/l		99
59) 2-Hexanone	10.755	43	545617	243.235 ug/l		98
60) Dibromochloromethane	10.908	129	253556	46.904 ug/l		99
61) 1,2-Dibromoethane	11.011	107	180061	46.761 ug/l		99
64) Tetrachloroethene	10.646	164	331676	50.070 ug/l		97
65) Chlorobenzene	11.438	112	773624	48.346 ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.511	131	261298	48.113 ug/l		99
67) Ethyl Benzene	11.517	91	1376524	49.987 ug/l		99
68) m/p-Xylenes	11.627	106	1075458	99.994 ug/l		99
69) o-Xylene	11.950	106	505296	50.162 ug/l		99
70) Styrene	11.969	104	833474	50.595 ug/l		100
71) Bromoform	12.127	173	144602	45.557 ug/l		100
73) Isopropylbenzene	12.249	105	1308324	51.327 ug/l		100
74) N-amyl acetate	12.066	43	269858	49.922 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	199792	45.905 ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	279690	80.243 ug/l	#	100
77) Bromobenzene	12.529	156	296723	48.794 ug/l		98
78) n-propylbenzene	12.590	91	1579912	52.061 ug/l		100
79) 2-Chlorotoluene	12.676	91	881616	50.703 ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1062229	51.563 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	69624	48.354 ug/l		98
82) 4-Chlorotoluene	12.773	91	913772	50.659 ug/l		100
83) tert-Butylbenzene	12.993	119	950248	51.072 ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	1060687	51.723 ug/l		100
85) sec-Butylbenzene	13.170	105	1414361	51.748 ug/l		100
86) p-Isopropyltoluene	13.285	119	1182656	52.130 ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	598001	49.866 ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	582375	48.956 ug/l		100
89) n-Butylbenzene	13.615	91	1098867	52.737 ug/l		99
90) Hexachloroethane	13.877	117	234252	50.439 ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	509973	48.490 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32155	47.451 ug/l		95
93) 1,2,4-Trichlorobenzene	14.913	180	300082	48.250 ug/l		99
94) Hexachlorobutadiene	15.017	225	175599	48.048 ug/l		99
95) Naphthalene	15.139	128	502833	47.413 ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	252008	47.023 ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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

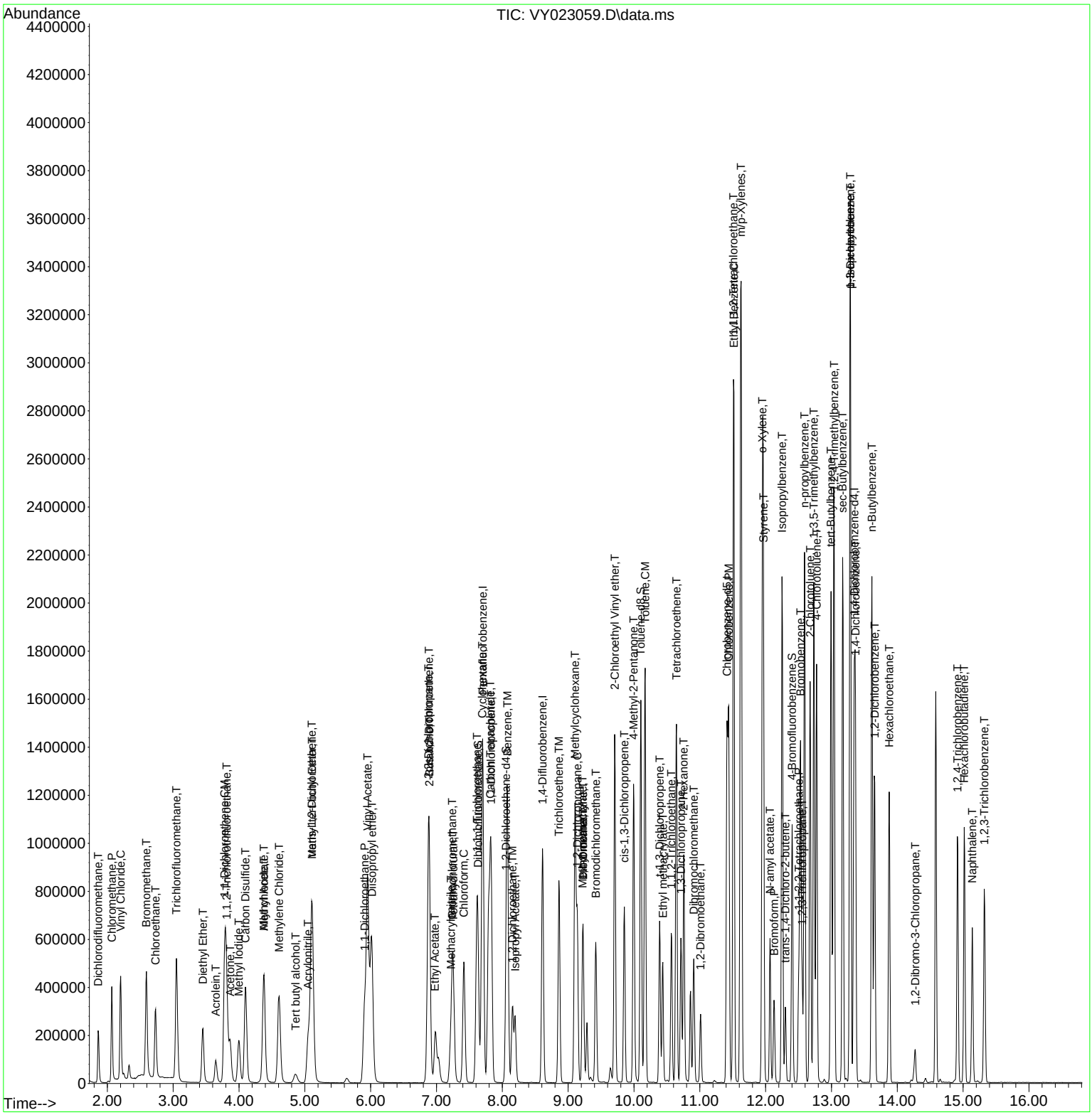
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

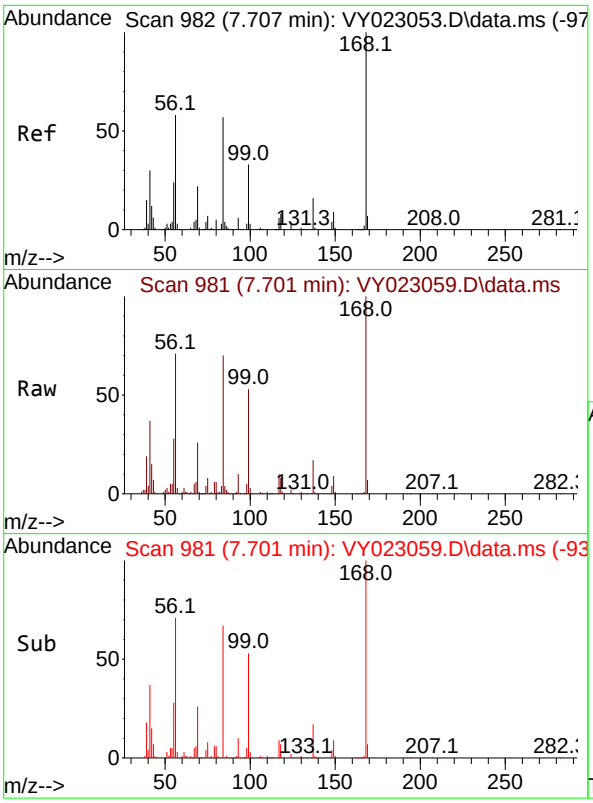
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
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 14 01:19:16 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



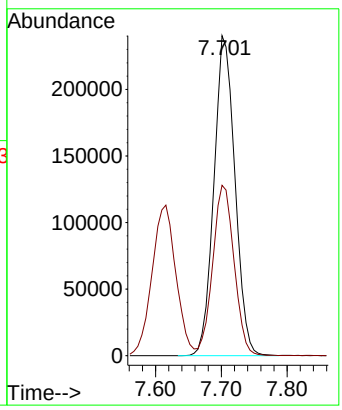


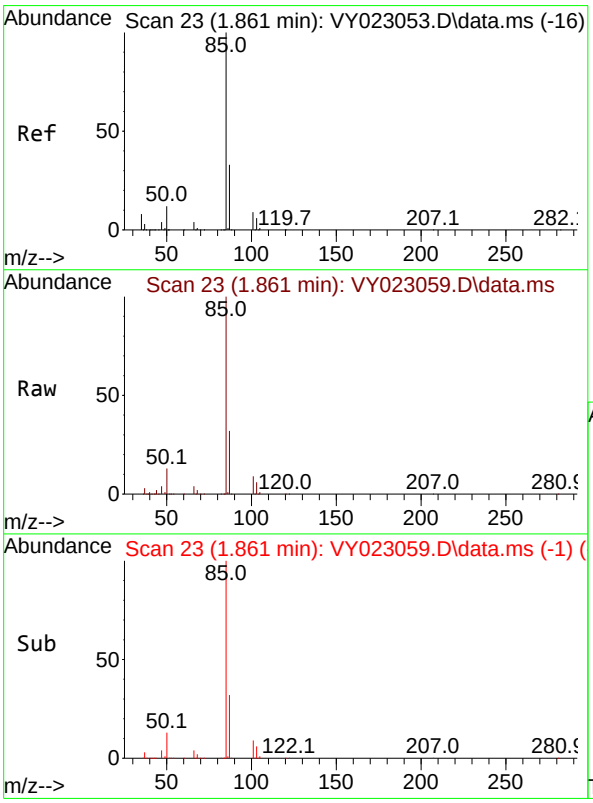
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 535817

Ion	Ratio	Lower	Upper
168	100		
99	53.2	42.8	64.2

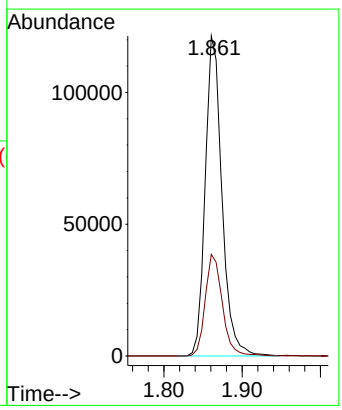


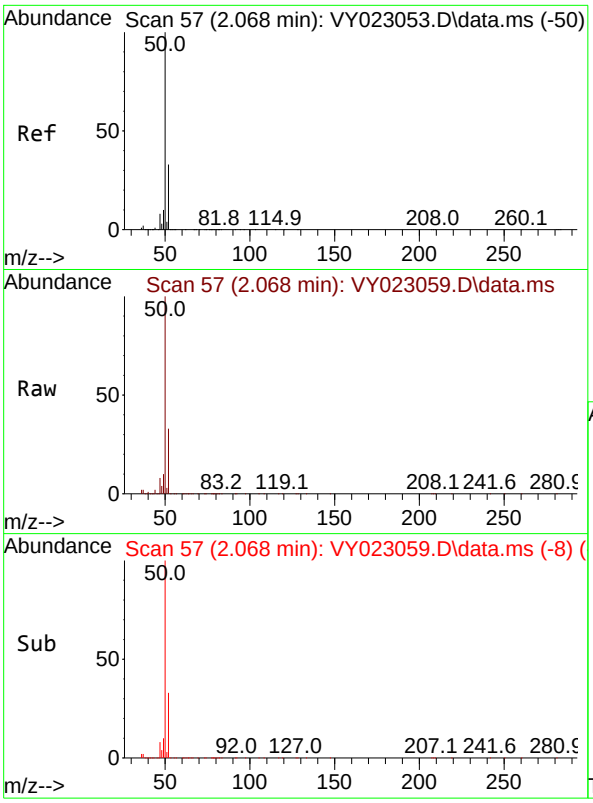


#2
Dichlorodifluoromethane
Concen: 41.006 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 85 Resp: 179347

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.6	49.8



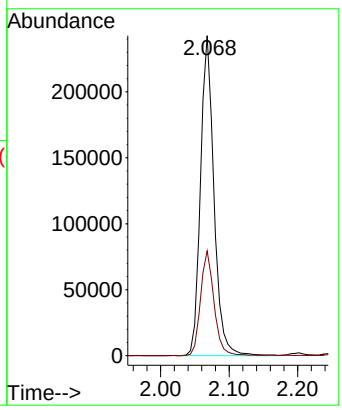


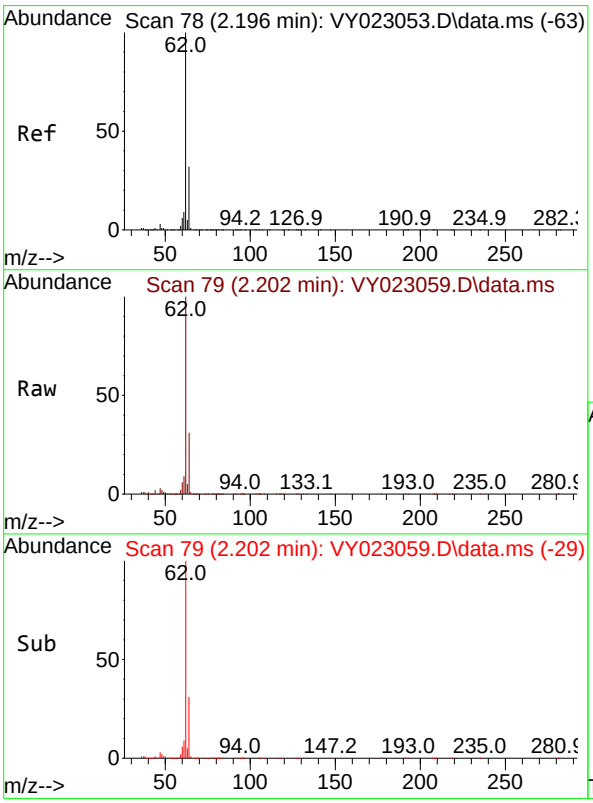
#3
Chloromethane
Concen: 46.863 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 331973

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.7	40.1

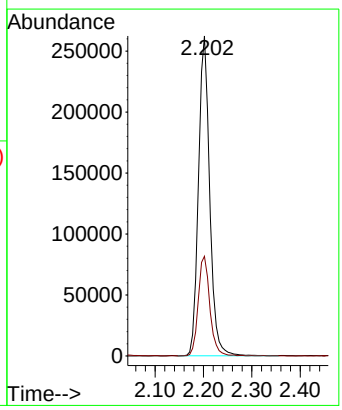


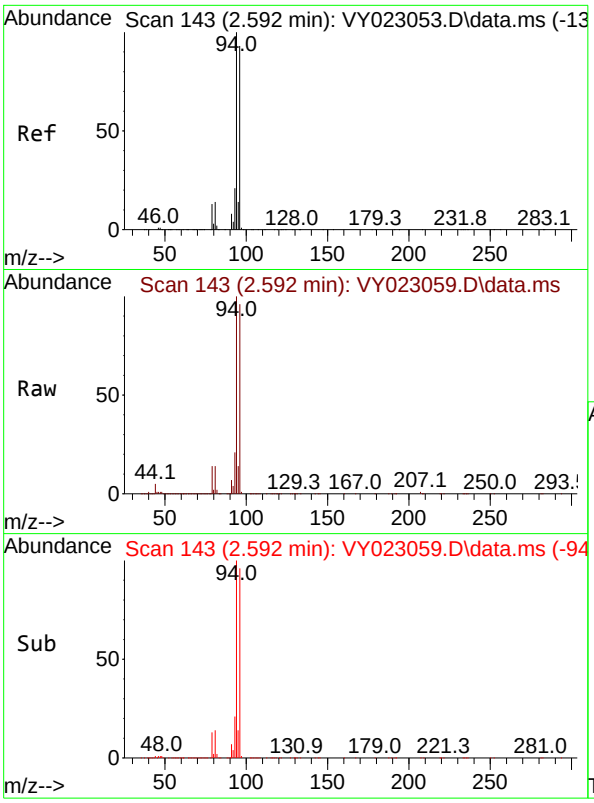


#4
Vinyl Chloride
Concen: 48.195 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 422026

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.4	38.0



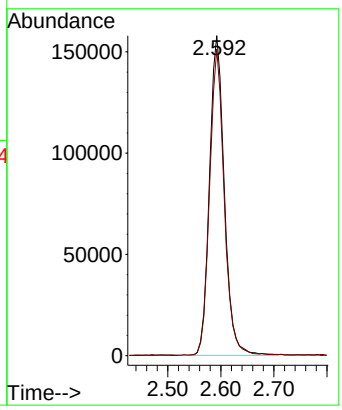


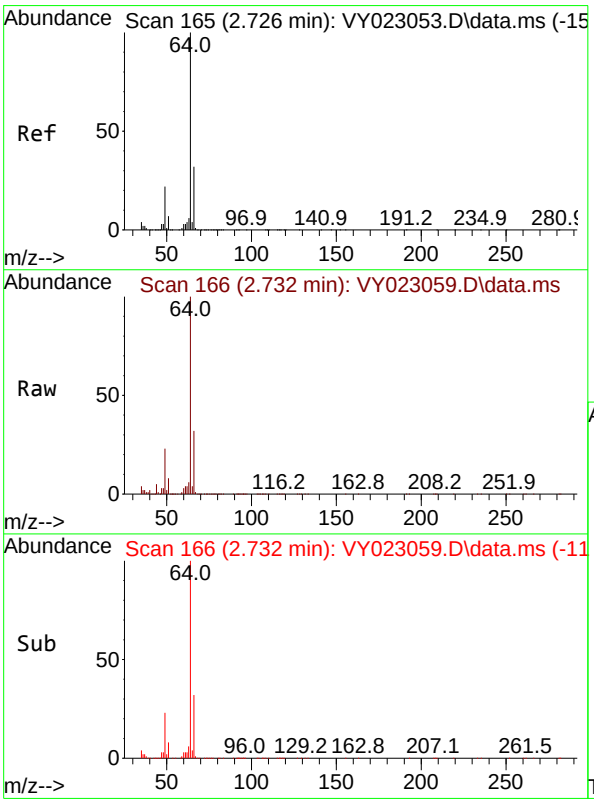
#5
Bromomethane
Concen: 47.148 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 308334

Ion	Ratio	Lower	Upper
94	100		
96	95.8	74.6	112.0

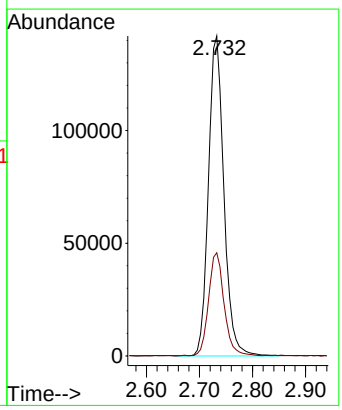


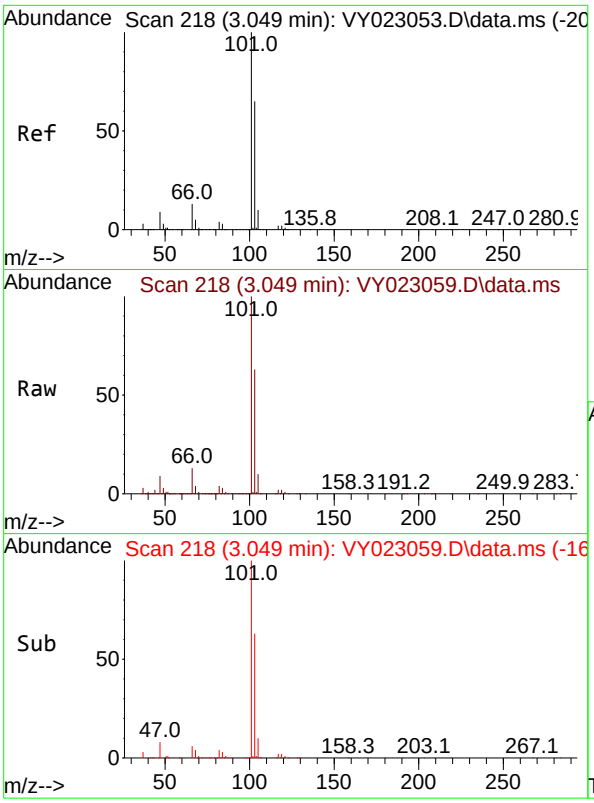


#6
Chloroethane
Concen: 49.279 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 64 Resp: 286888

Ion	Ratio	Lower	Upper
64	100		
66	32.2	25.8	38.6



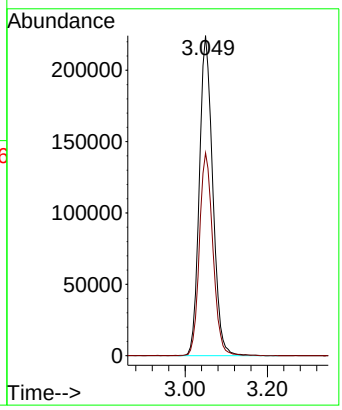


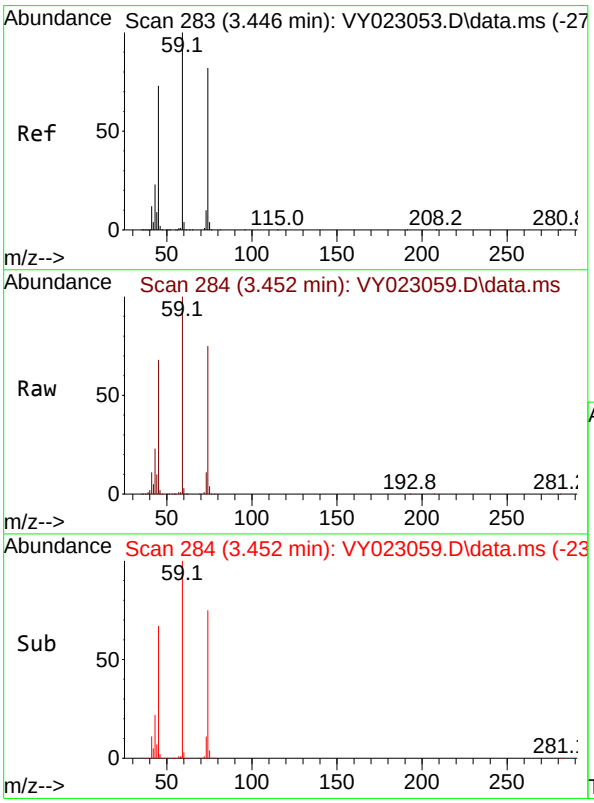
#7
Trichlorofluoromethane
Concen: 47.512 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 505891

Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.9	77.9

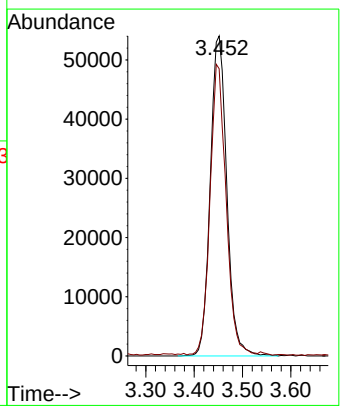


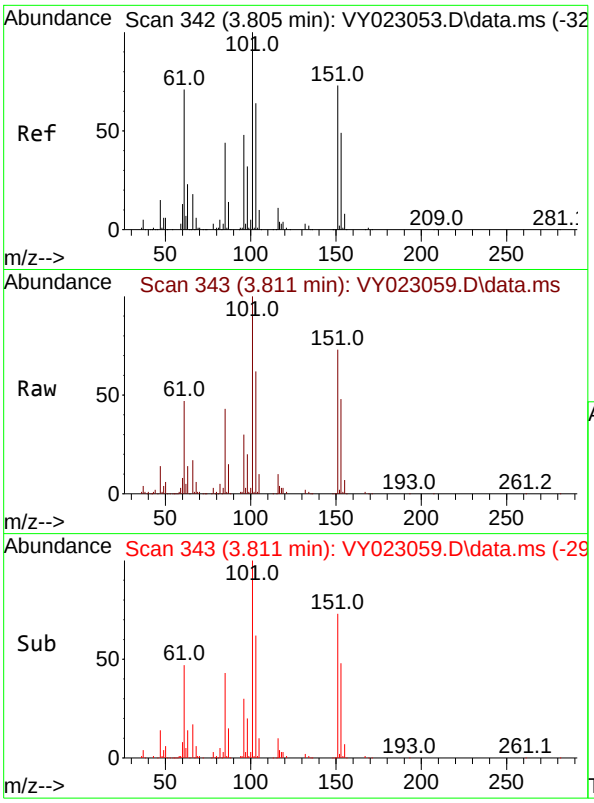


#8
Diethyl Ether
Concen: 45.547 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 74 Resp: 128306

Ion	Ratio	Lower	Upper
74	100		
45	88.1	44.4	133.2



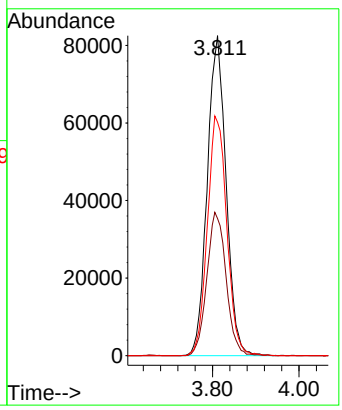


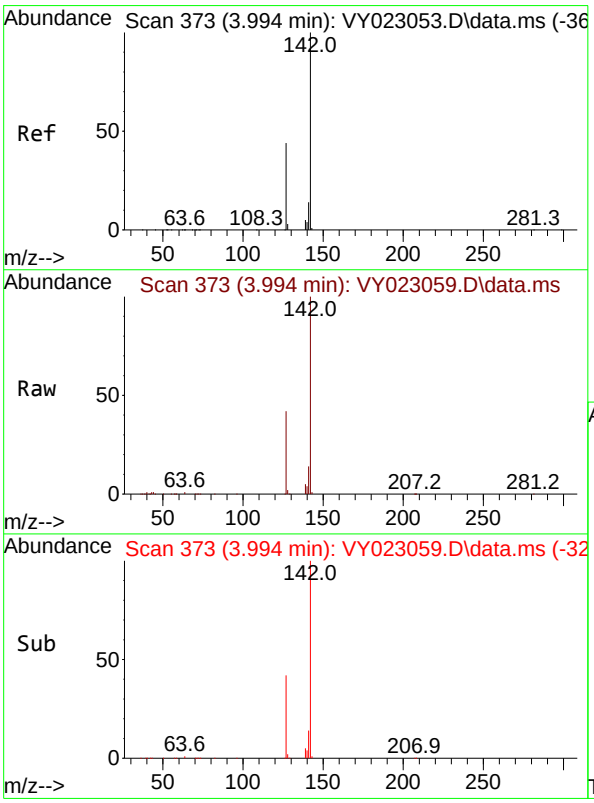
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.444 ug/l
RT: 3.811 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 249222

Ion	Ratio	Lower	Upper
101	100		
85	45.9	36.3	54.5
151	77.3	61.5	92.3

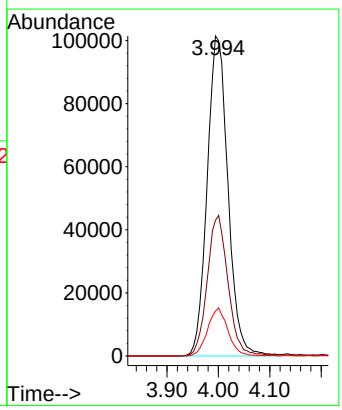


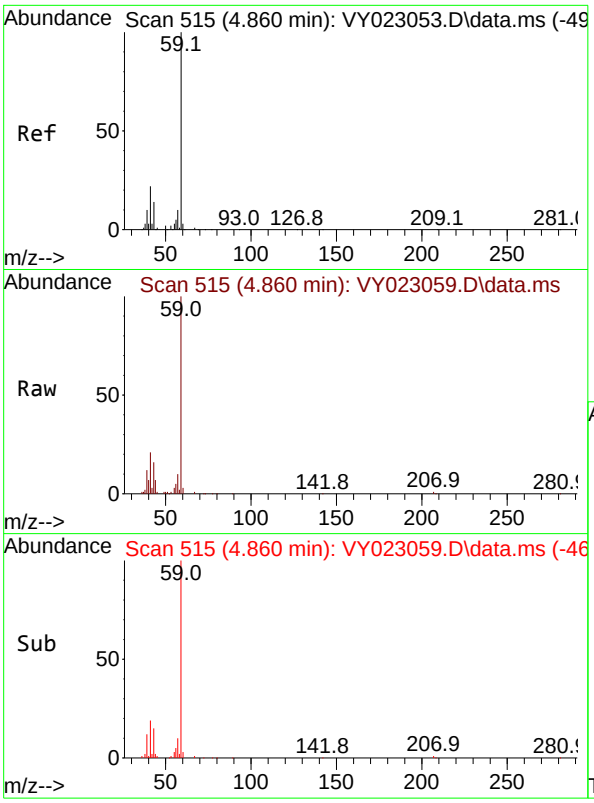


#10
Methyl Iodide
Concen: 50.312 ug/l
RT: 3.994 min Scan# 373
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:142 Resp: 285188

Ion	Ratio	Lower	Upper
142	100		
127	43.9	34.9	52.3
141	14.7	11.3	16.9



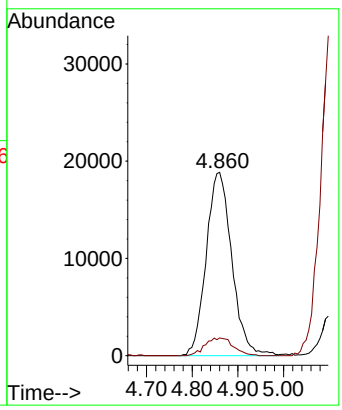


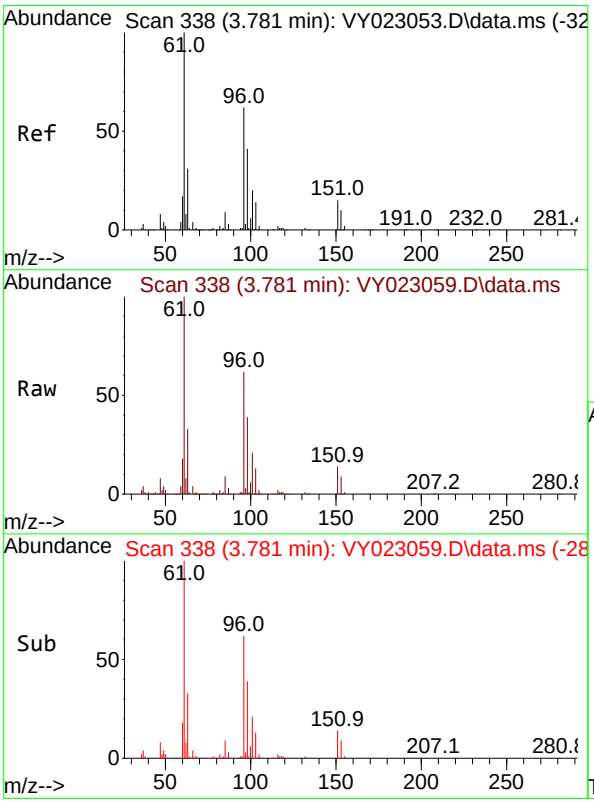
#11
Tert butyl alcohol
Concen: 209.916 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 73451

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	13.0

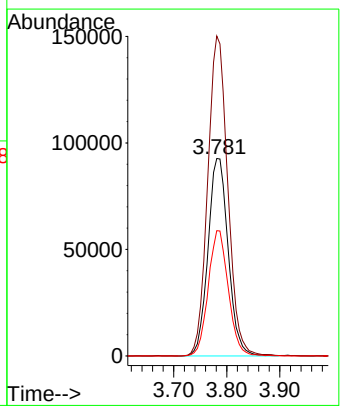


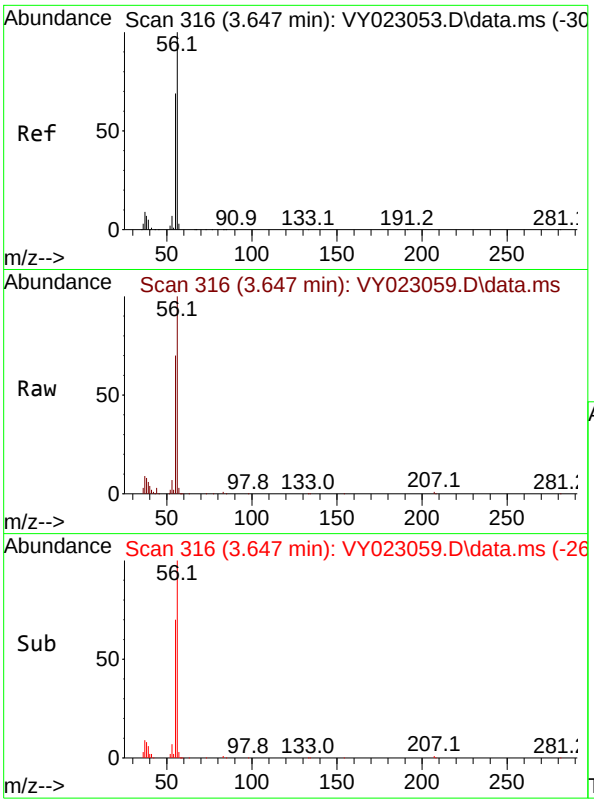


#12
1,1-Dichloroethene
Concen: 47.613 ug/l
RT: 3.781 min Scan# 338
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 245840

Ion	Ratio	Lower	Upper
96	100		
61	162.1	129.4	194.2
98	63.4	52.8	79.2



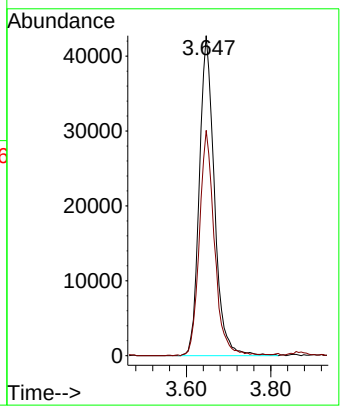


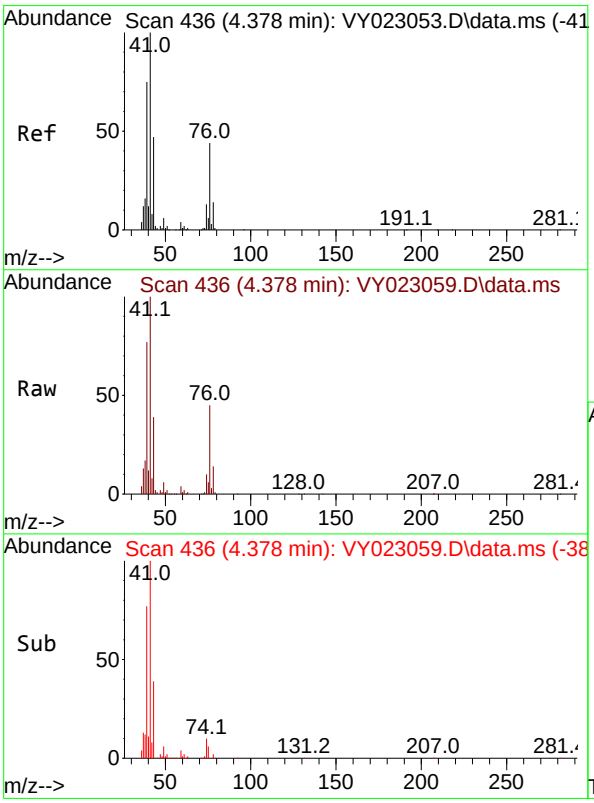
#13
Acrolein
Concen: 207.313 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 106236

Ion	Ratio	Lower	Upper
56	100		
55	70.6	55.2	82.8

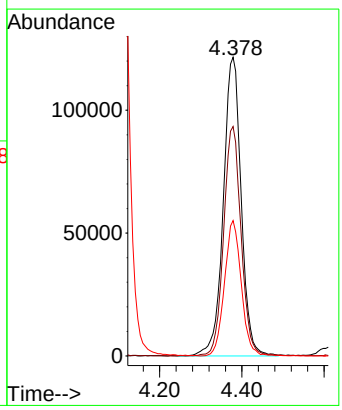


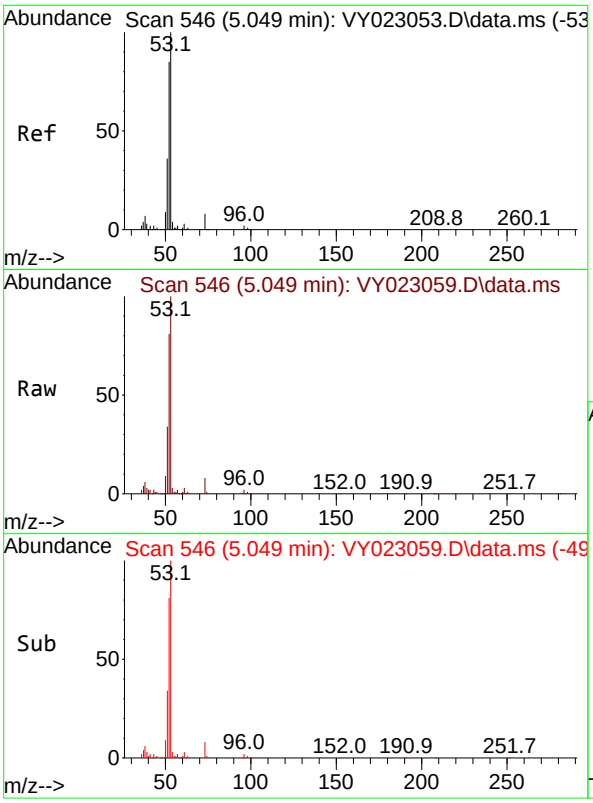


#14
Allyl chloride
Concen: 48.395 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 367684

Ion	Ratio	Lower	Upper
41	100		
39	75.0	59.8	89.6
76	42.6	33.7	50.5



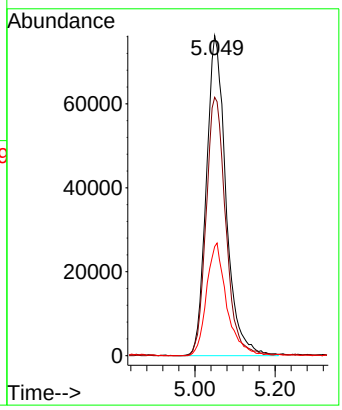


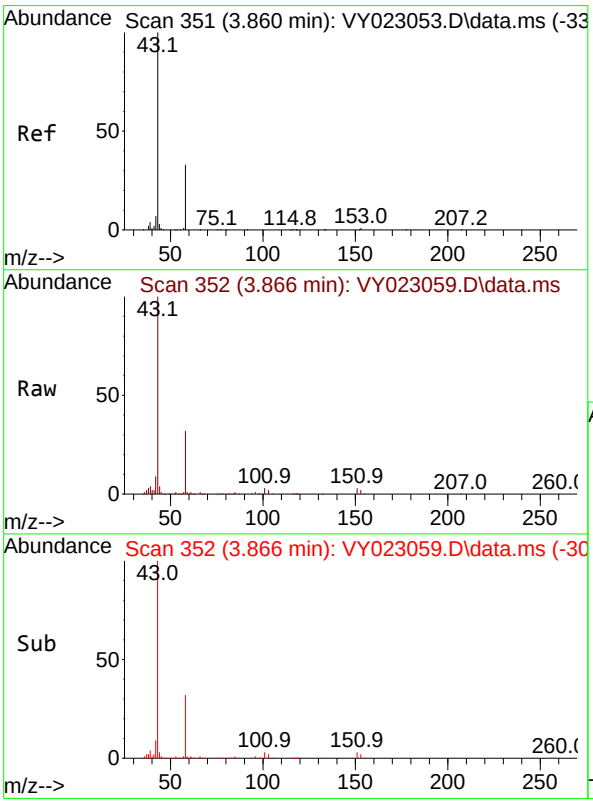
#15
Acrylonitrile
Concen: 226.059 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 258896

Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.3	97.9
51	36.3	29.5	44.3

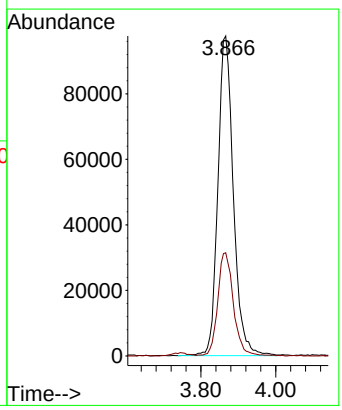


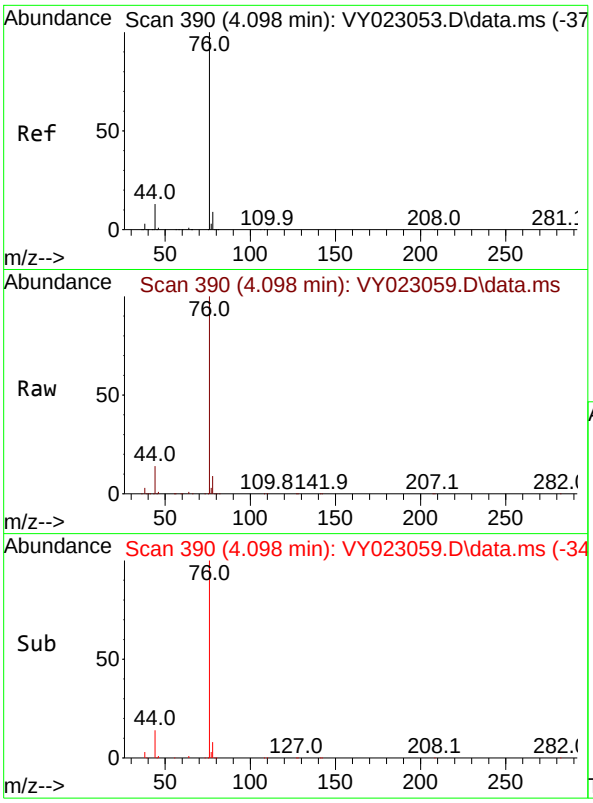


#16
Acetone
Concen: 253.265 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 280197

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7



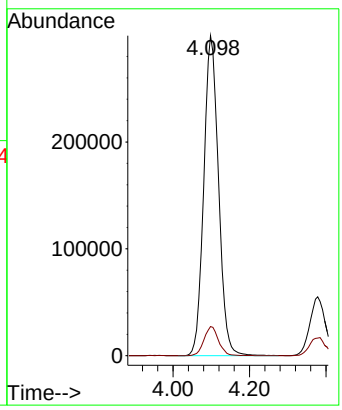


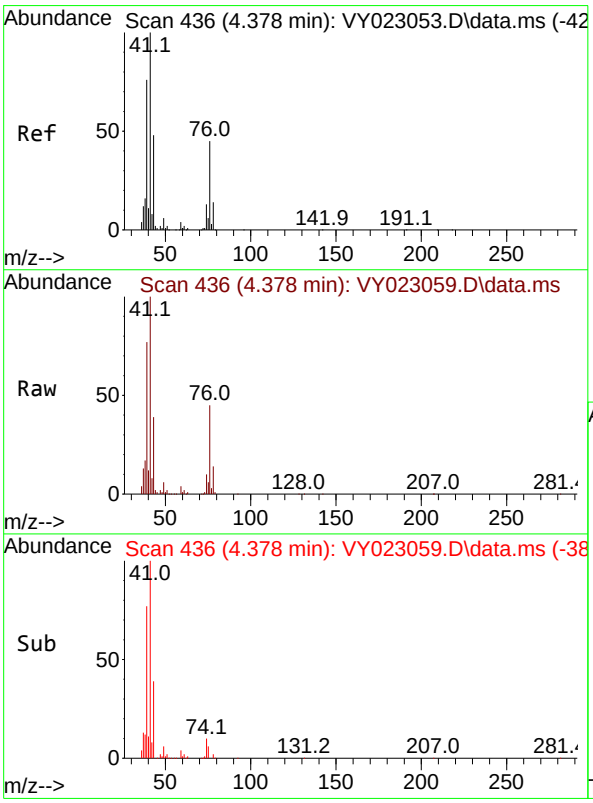
#17
Carbon Disulfide
Concen: 47.654 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 802293

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.2

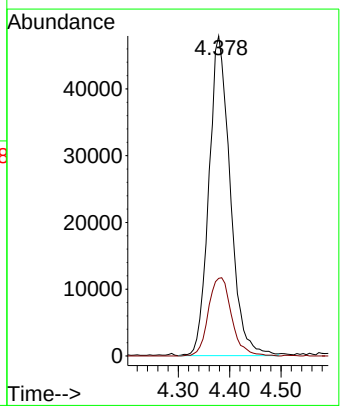


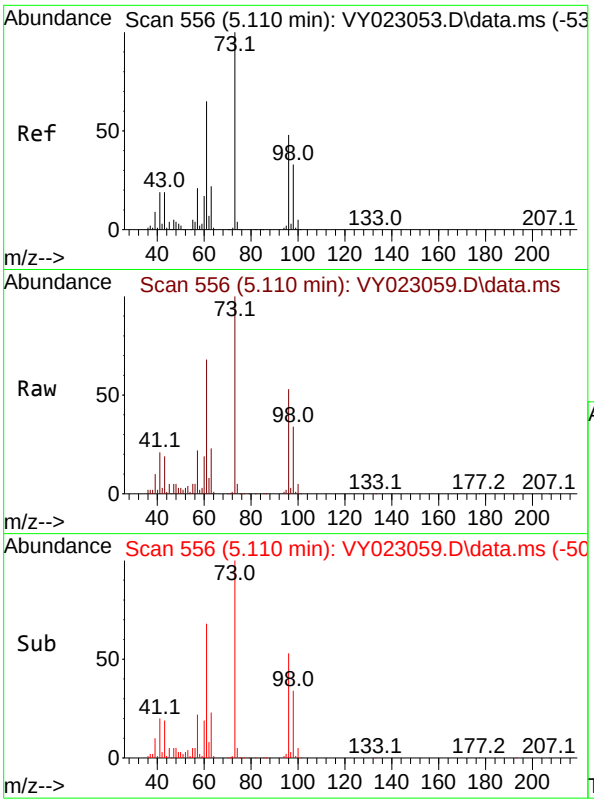


#18
Methyl Acetate
Concen: 41.723 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 137365

Ion	Ratio	Lower	Upper
43	100		
74	26.7	21.2	31.8



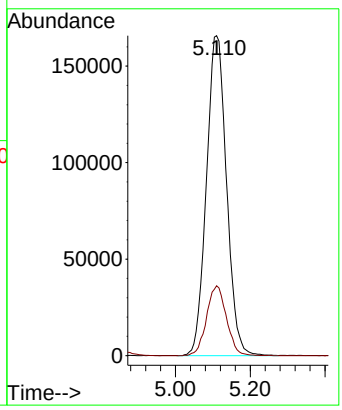


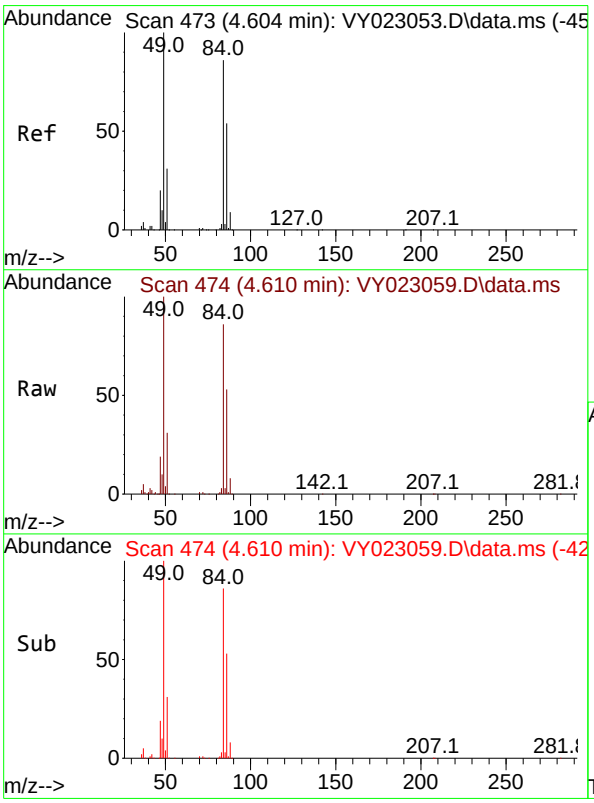
#19
Methyl tert-butyl Ether
Concen: 46.387 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 620651

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.1	25.7

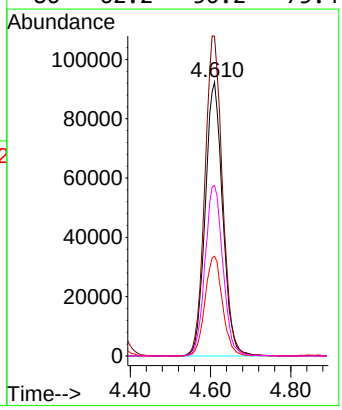


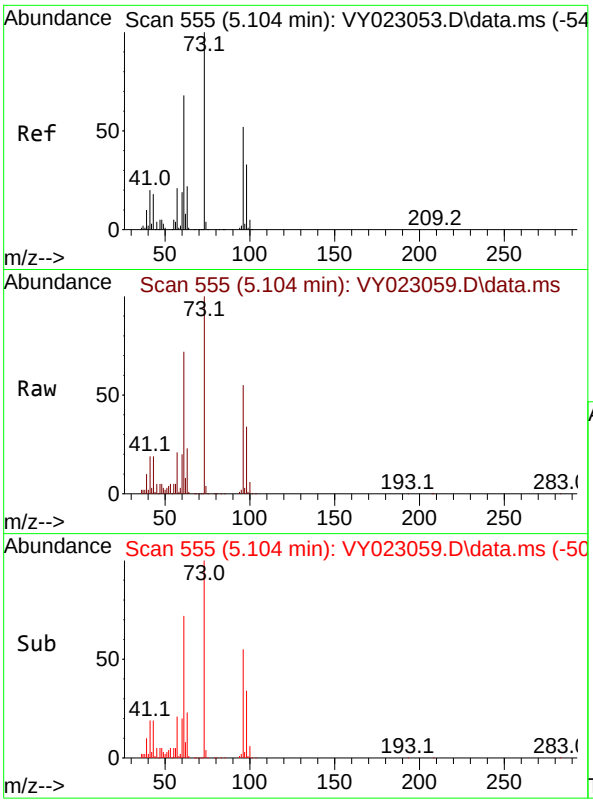


#20
Methylene Chloride
Concen: 48.260 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 84 Resp: 277983

Ion	Ratio	Lower	Upper
84	100		
49	116.8	93.0	139.6
51	36.4	29.0	43.4
86	62.2	50.2	75.4



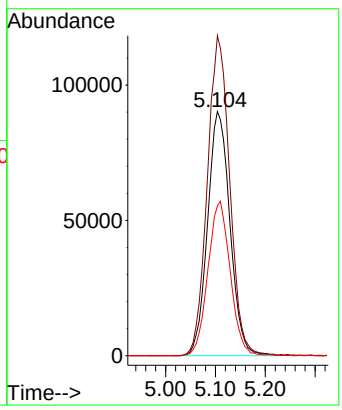


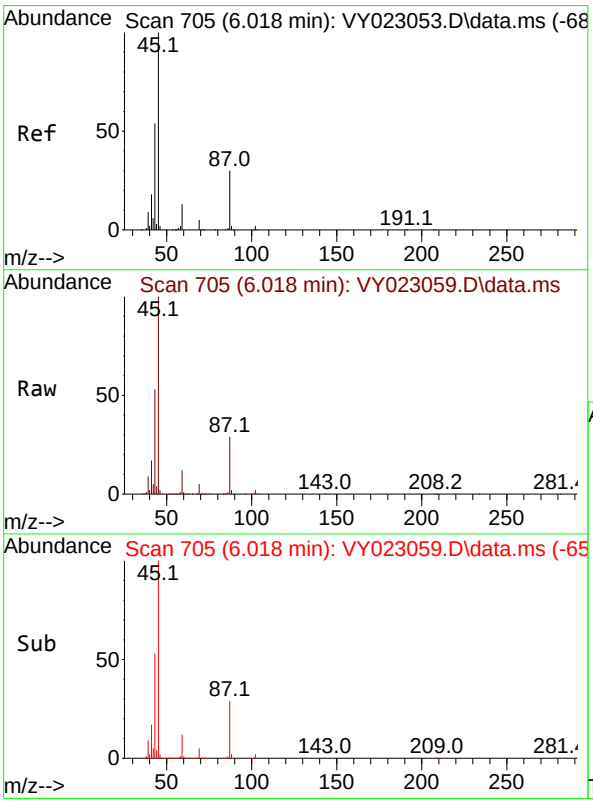
#21
trans-1,2-Dichloroethene
Concen: 48.558 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 281759

Ion	Ratio	Lower	Upper
96	100		
61	131.1	104.8	157.2
98	61.4	50.1	75.1

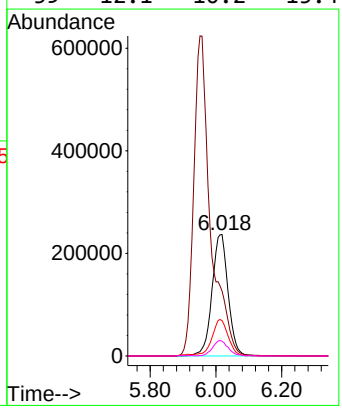


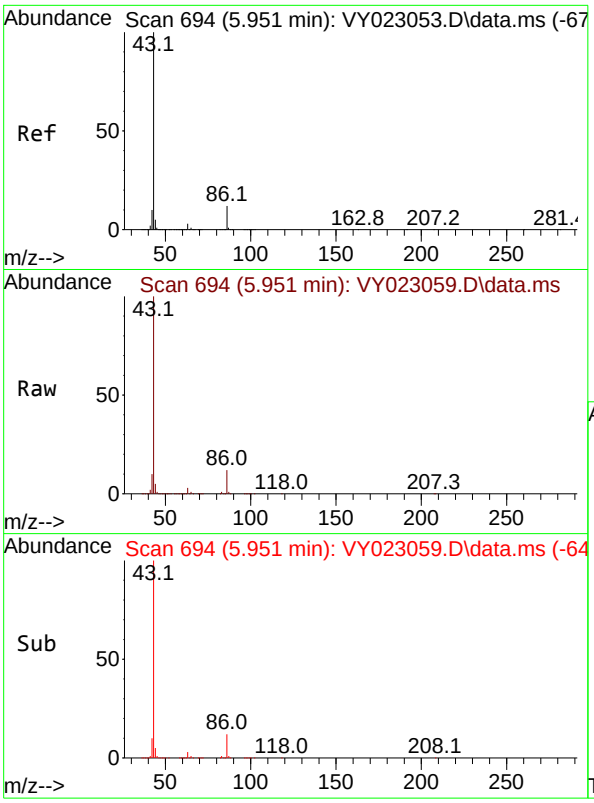


#22
Diisopropyl ether
Concen: 48.705 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 45 Resp: 804095

Ion	Ratio	Lower	Upper
45	100		
43	53.2	43.4	65.0
87	29.2	24.4	36.6
59	12.1	10.2	15.4



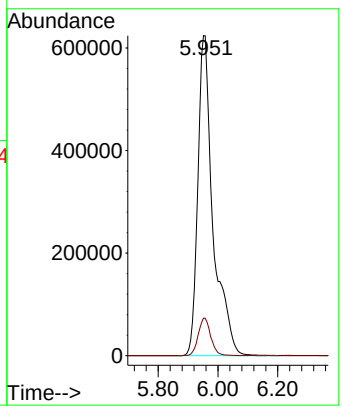


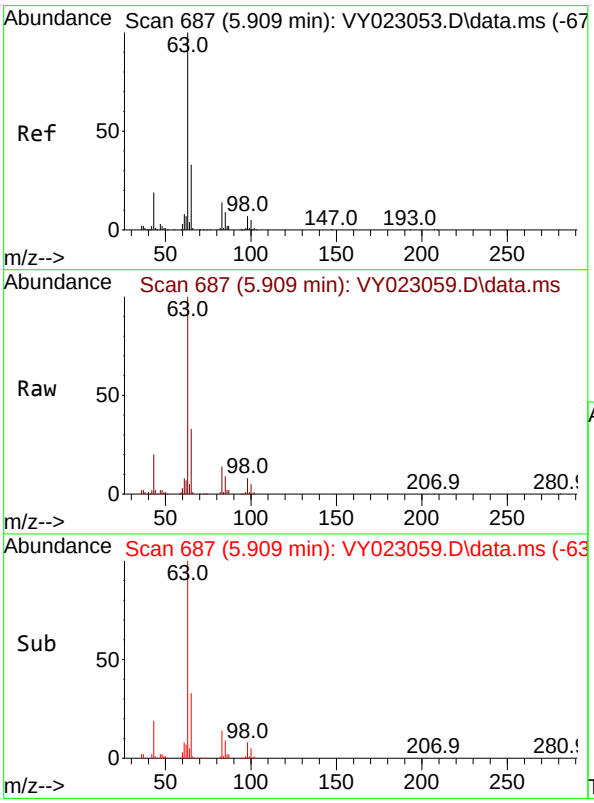
#23
Vinyl Acetate
Concen: 241.571 ug/l
RT: 5.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2205285

Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.6	14.4

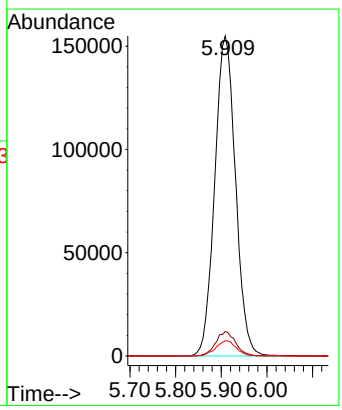


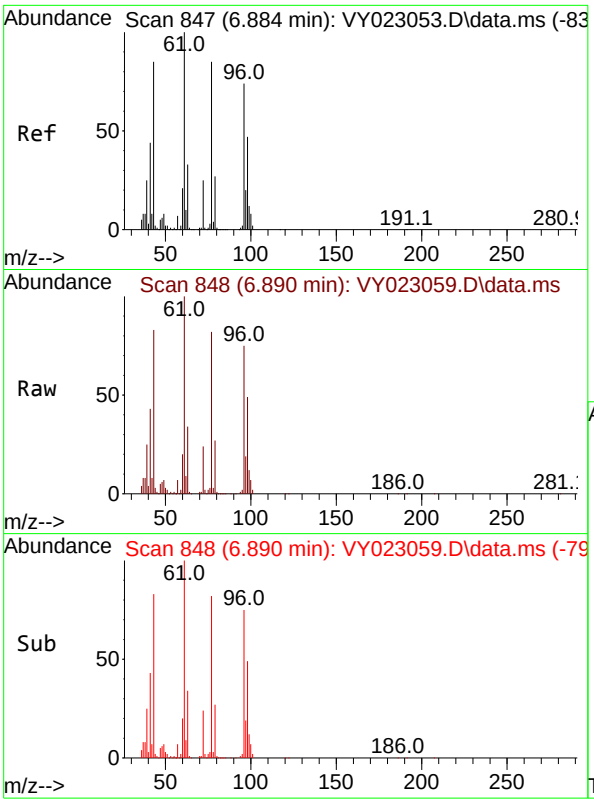


#24
1,1-Dichloroethane
Concen: 48.480 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 489342

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.5	10.6
100	4.8	2.4	7.1



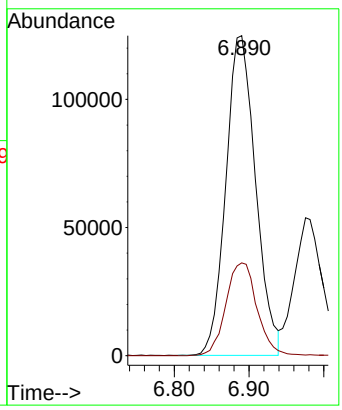


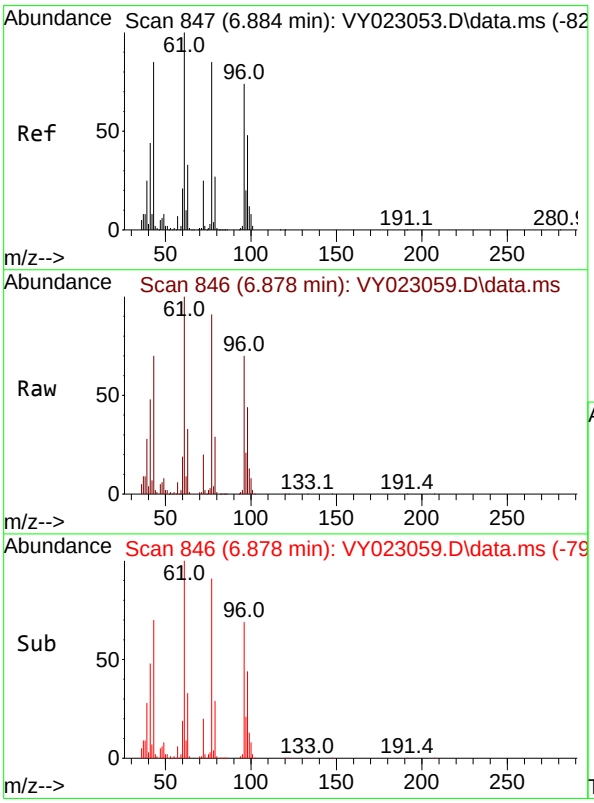
#25
2-Butanone
Concen: 229.361 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 345112

Ion	Ratio	Lower	Upper
43	100		
72	29.0	23.5	35.3

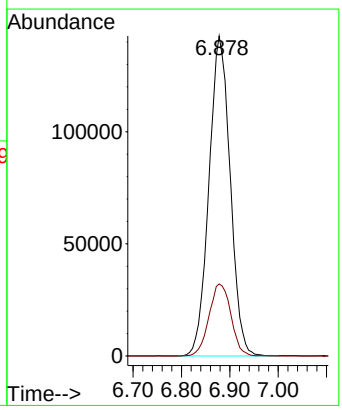


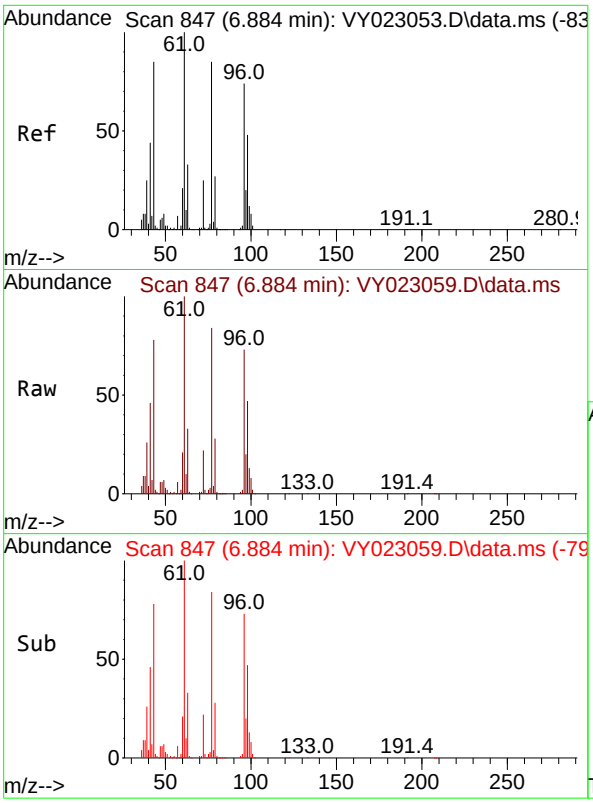


#26
2,2-Dichloropropane
Concen: 49.978 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 77 Resp: 435291

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8



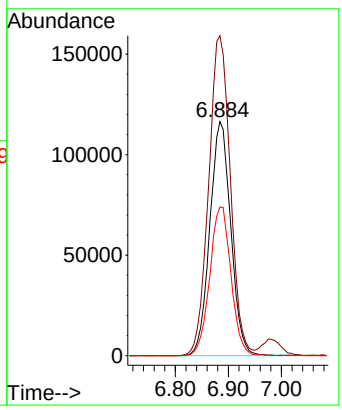


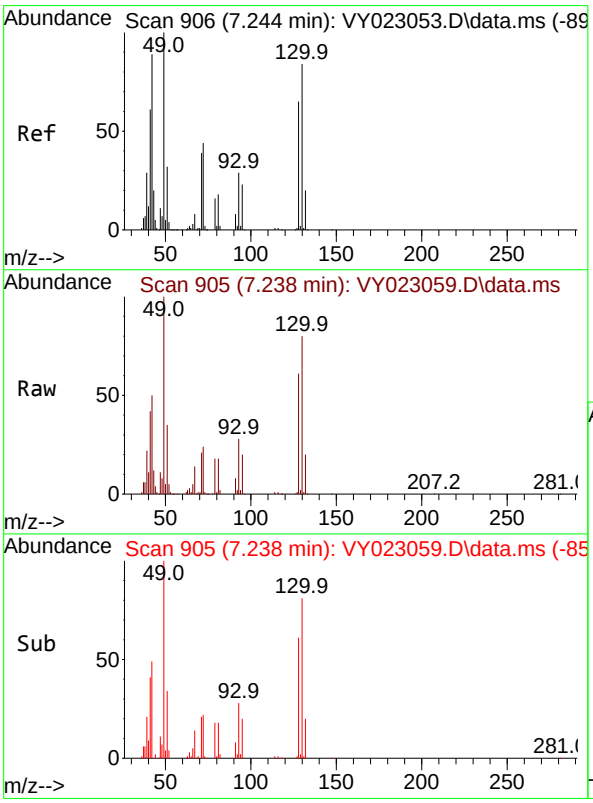
#27
cis-1,2-Dichloroethene
Concen: 47.671 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 319779

Ion	Ratio	Lower	Upper
96	100		
61	141.4	0.0	278.6
98	64.4	0.0	130.4

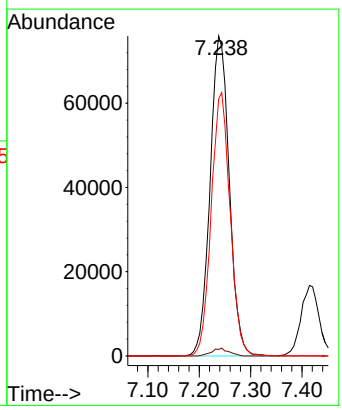


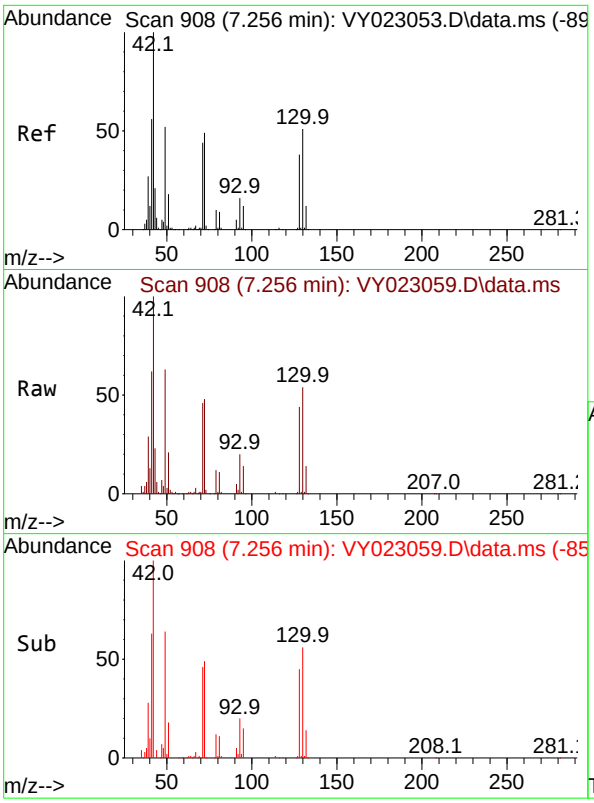


#28
Bromochloromethane
Concen: 49.222 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 49 Resp: 197112

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	80.9	66.4	99.6



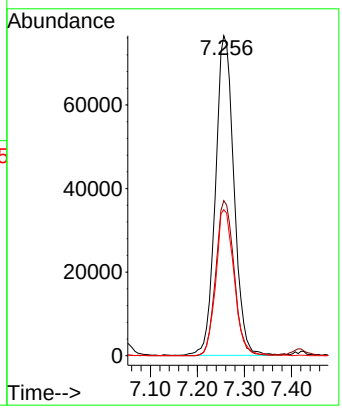


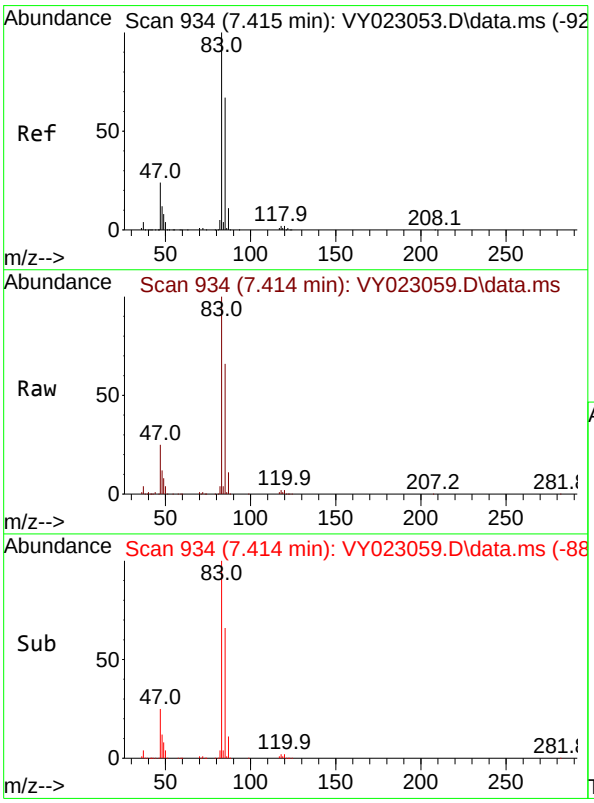
#29
Tetrahydrofuran
Concen: 224.929 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 209787

Ion	Ratio	Lower	Upper
42	100		
72	48.0	39.4	59.2
71	45.1	36.5	54.7

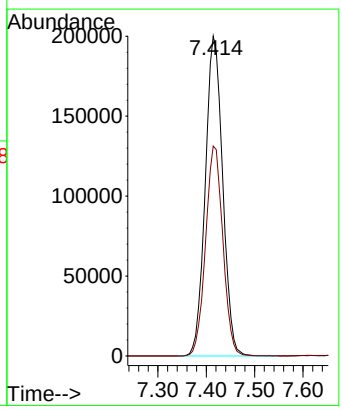


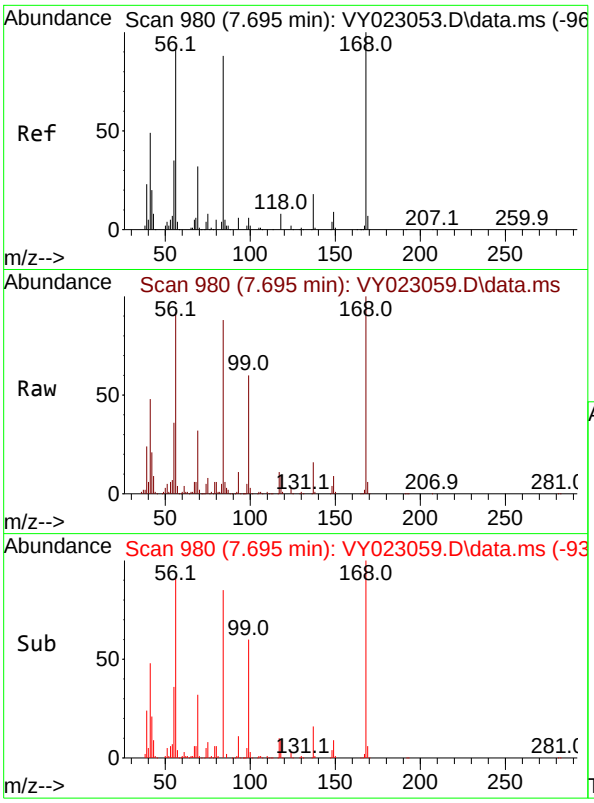


#30
Chloroform
Concen: 47.994 ug/l
RT: 7.414 min Scan# 934
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 499613

Ion	Ratio	Lower	Upper
83	100		
85	65.6	53.8	80.8



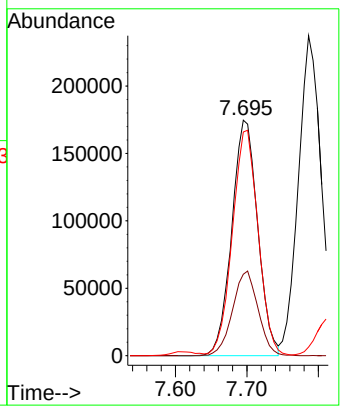


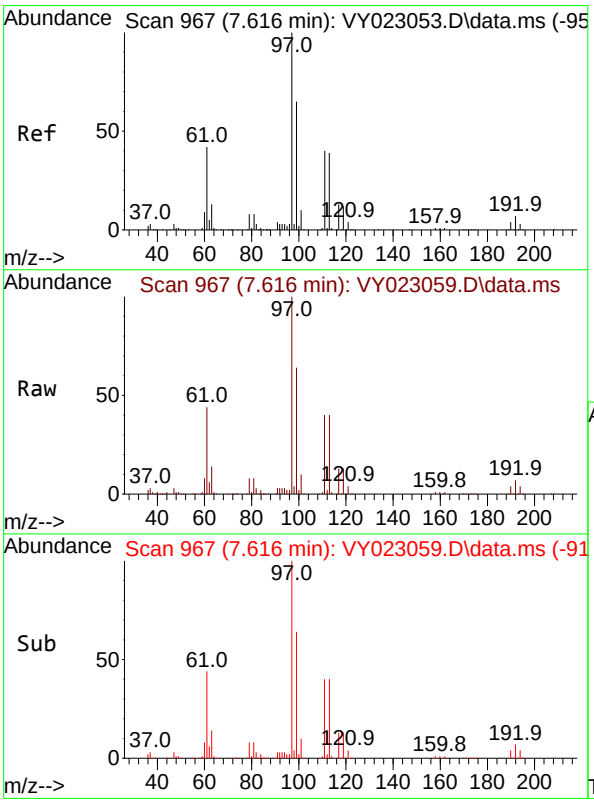
#31
Cyclohexane
Concen: 46.262 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 440040

Ion	Ratio	Lower	Upper
56	100		
69	34.6	28.2	42.2
84	93.2	76.6	114.8

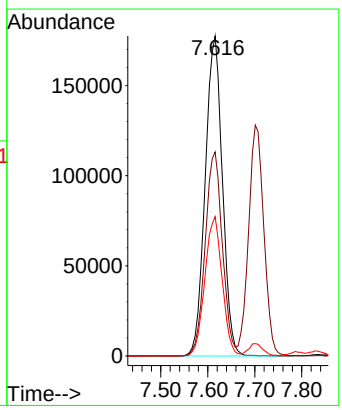


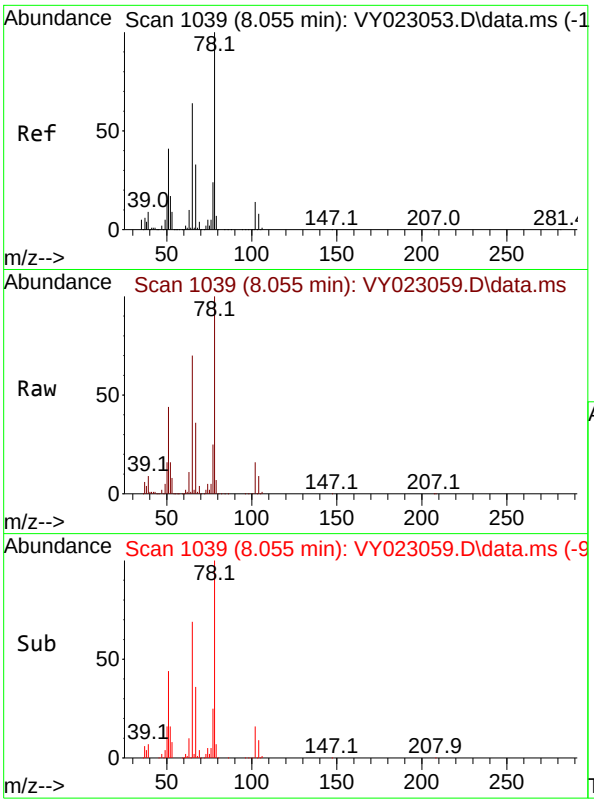


#32
1,1,1-Trichloroethane
Concen: 48.765 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 97 Resp: 450437

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.6	77.4
61	43.8	34.2	51.2



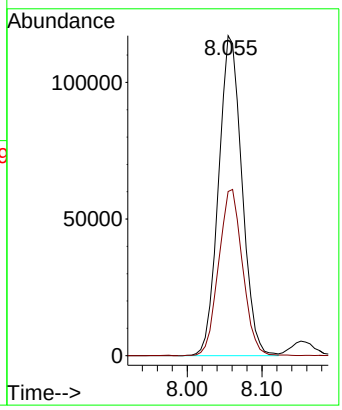


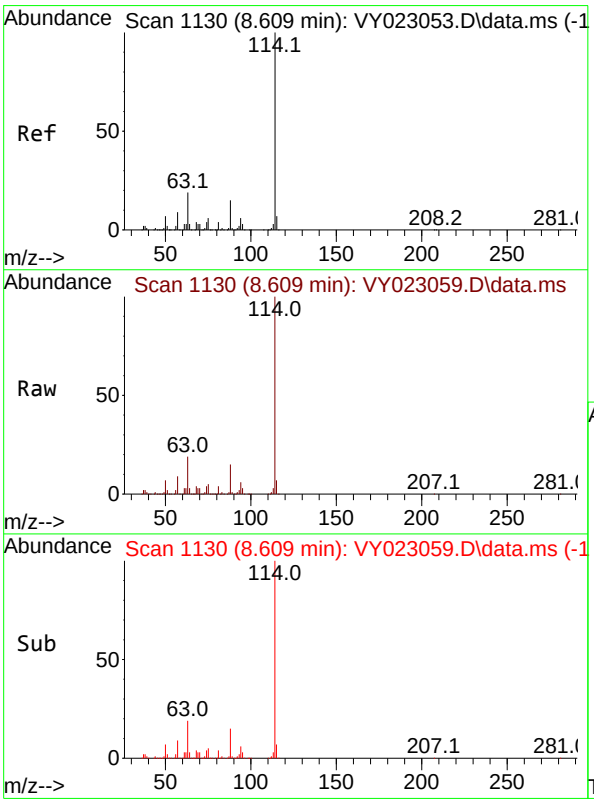
#33
1,2-Dichloroethane-d4
Concen: 49.931 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 254983

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.8

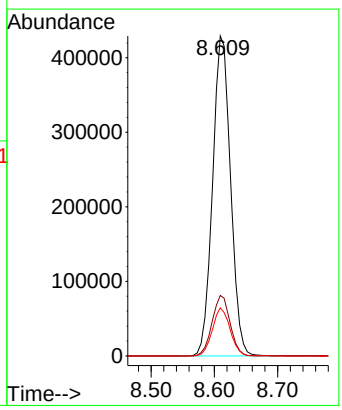


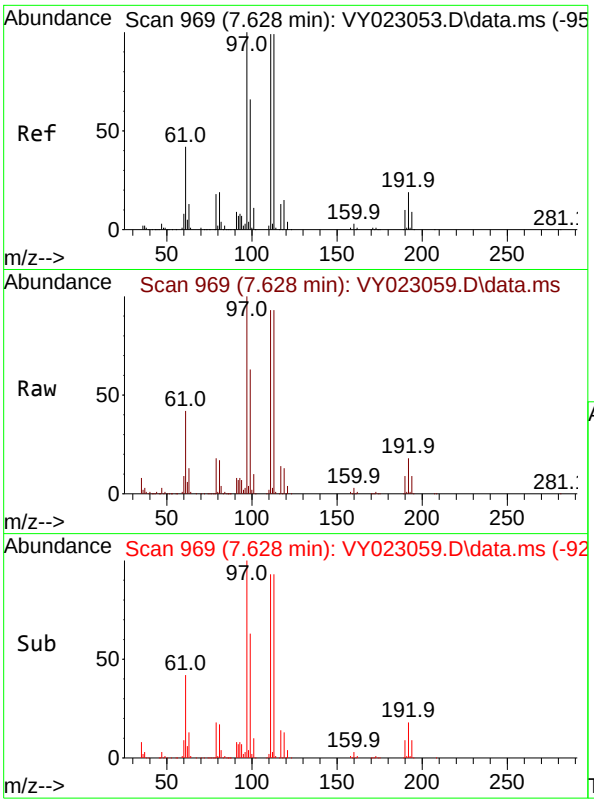


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:114 Resp: 845865

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	38.4
88	15.1	0.0	30.0



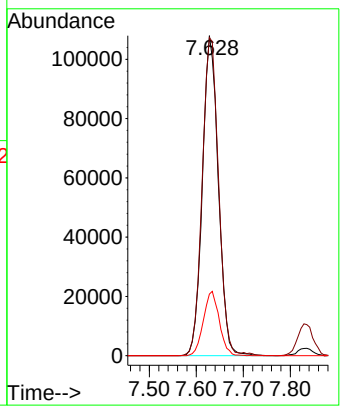


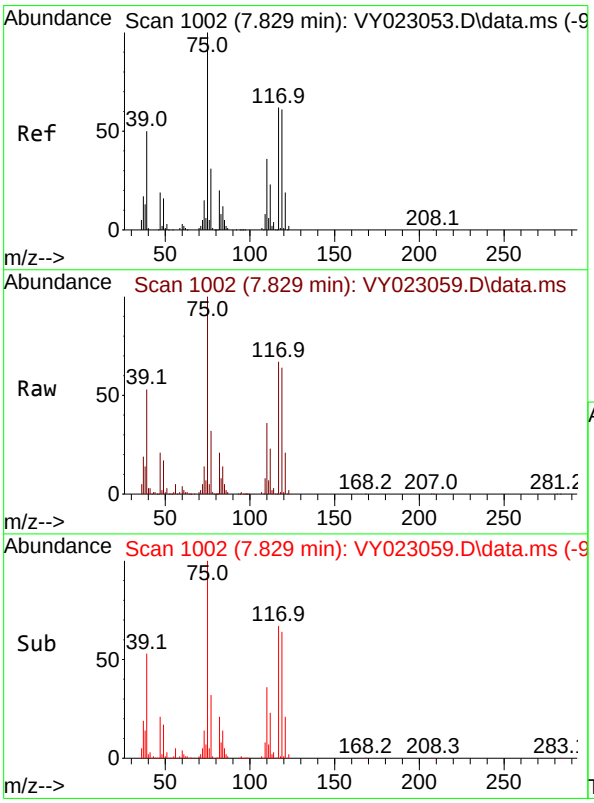
#35
Dibromofluoromethane
Concen: 50.227 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 254219

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.1	121.7
192	20.0	16.2	24.4

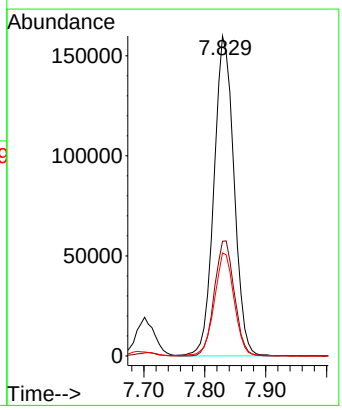


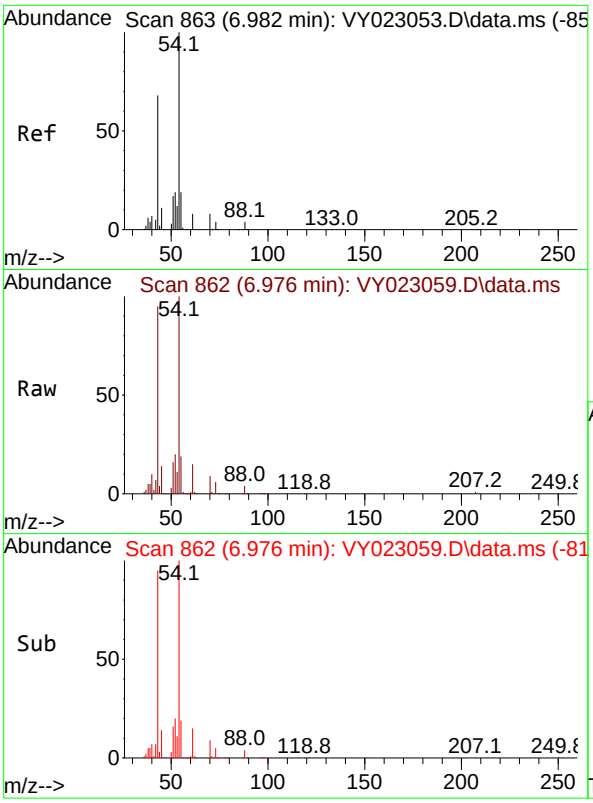


#36
1,1-Dichloropropene
Concen: 48.533 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 365059

Ion	Ratio	Lower	Upper
75	100		
110	35.9	18.1	54.4
77	32.0	24.6	37.0



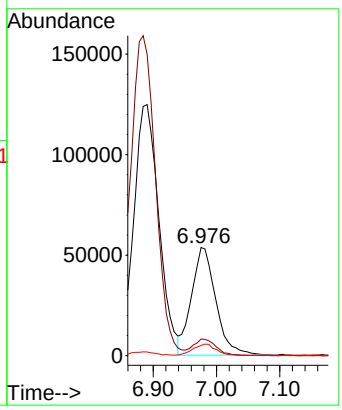


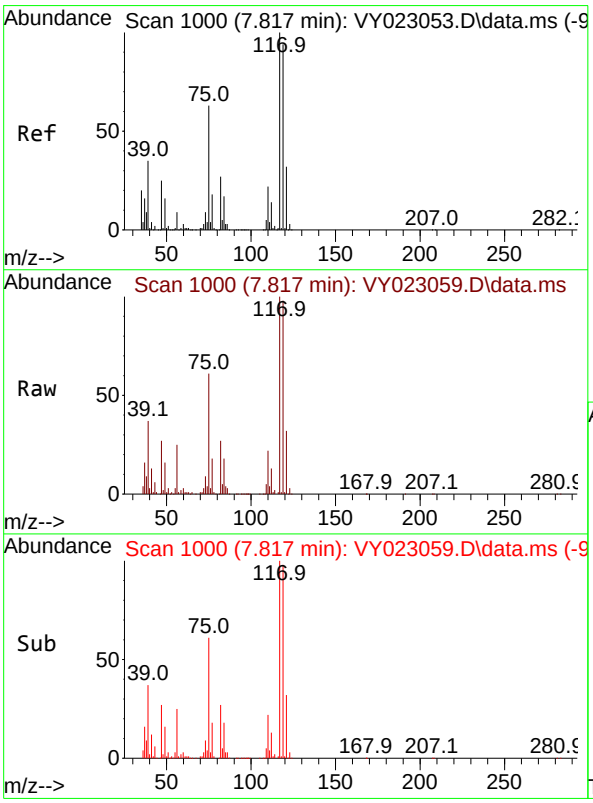
#37
Ethyl Acetate
Concen: 45.366 ug/l
RT: 6.976 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 143345

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.9	17.9
70	10.6	8.8	13.2

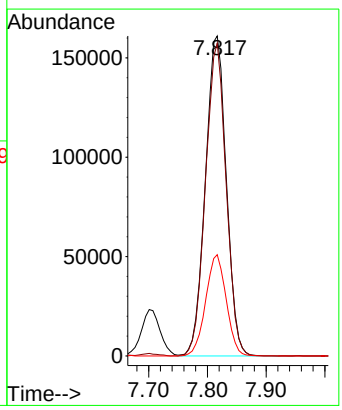


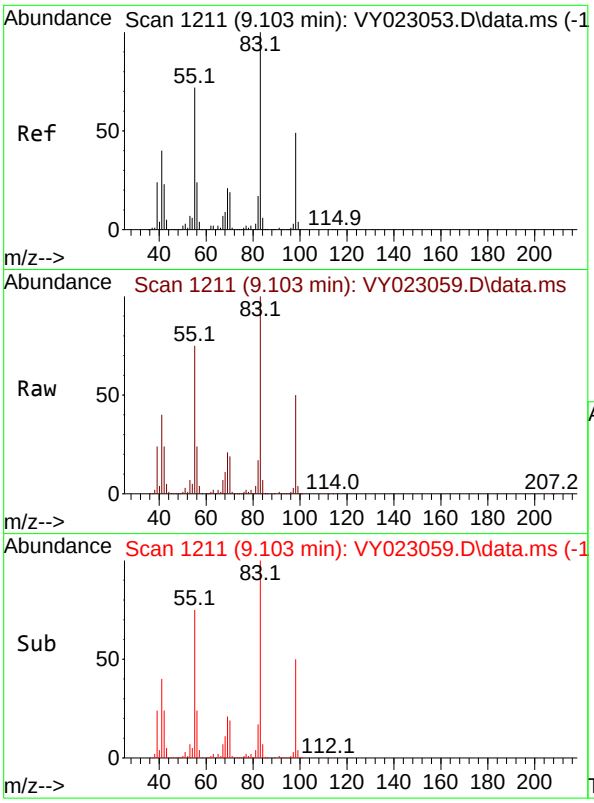


#38
Carbon Tetrachloride
Concen: 48.841 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 399023

Ion	Ratio	Lower	Upper
117	100		
119	97.7	75.6	113.4
121	31.6	25.8	38.8



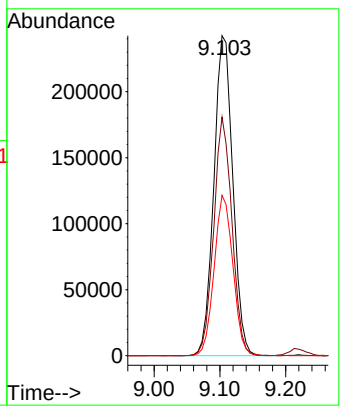


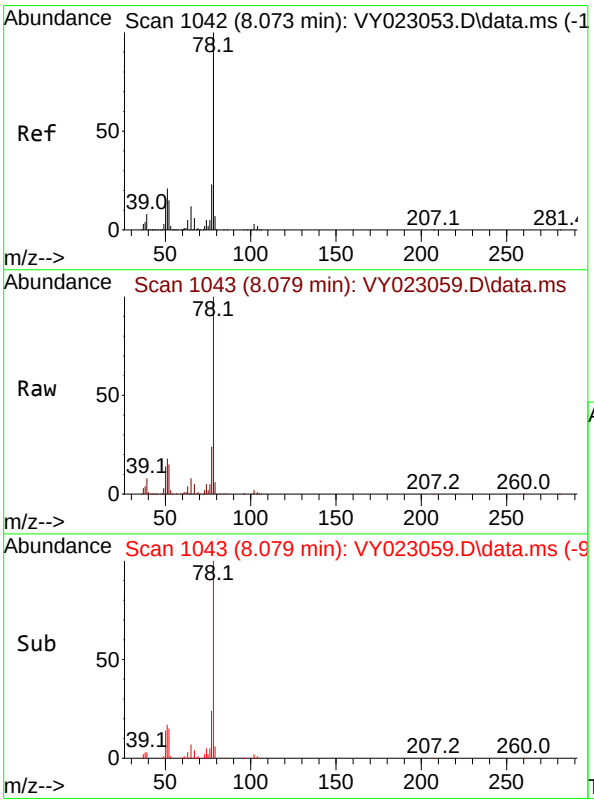
#39
Methylcyclohexane
Concen: 49.119 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 486544

Ion	Ratio	Lower	Upper
83	100		
55	74.6	57.6	86.4
98	50.1	39.2	58.8

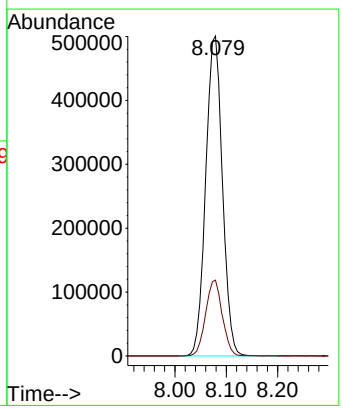


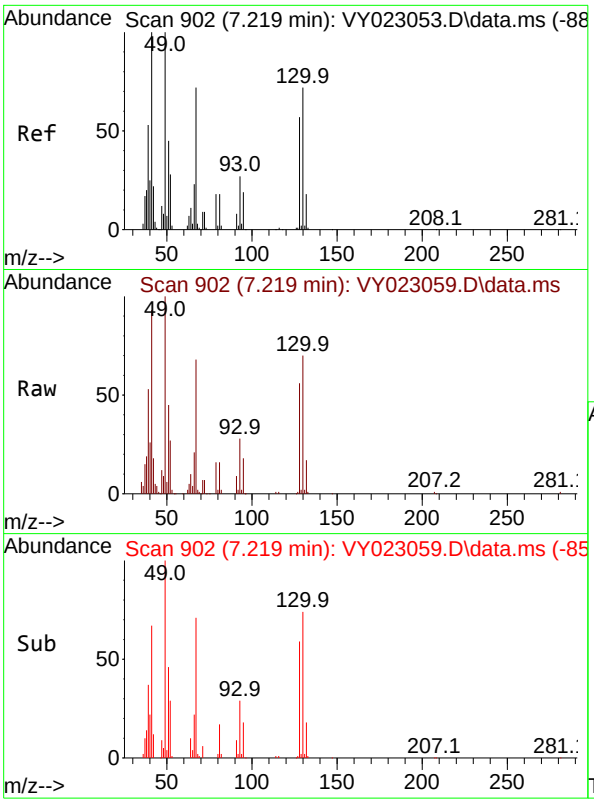


#40
Benzene
Concen: 48.666 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 78 Resp: 1128264

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0



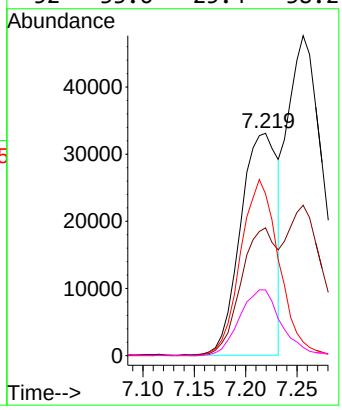


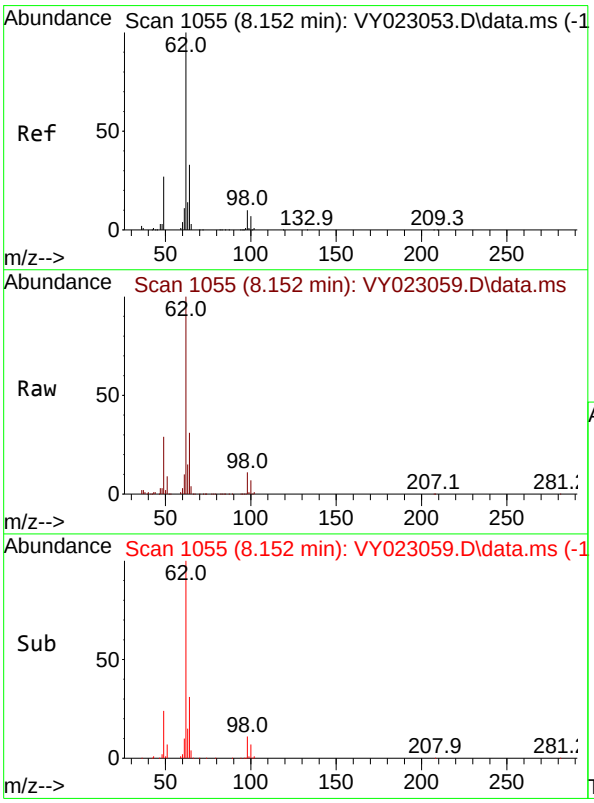
#41
Methacrylonitrile
Concen: 45.492 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 82958

Ion	Ratio	Lower	Upper
41	100		
39	56.1	43.4	65.2
67	82.9	63.6	95.4
52	33.6	25.4	38.2

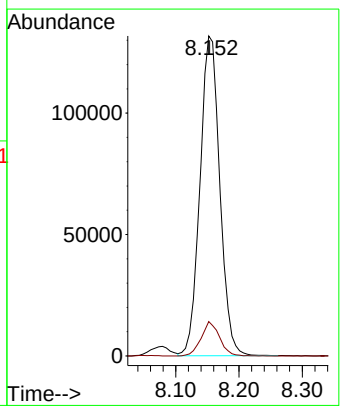


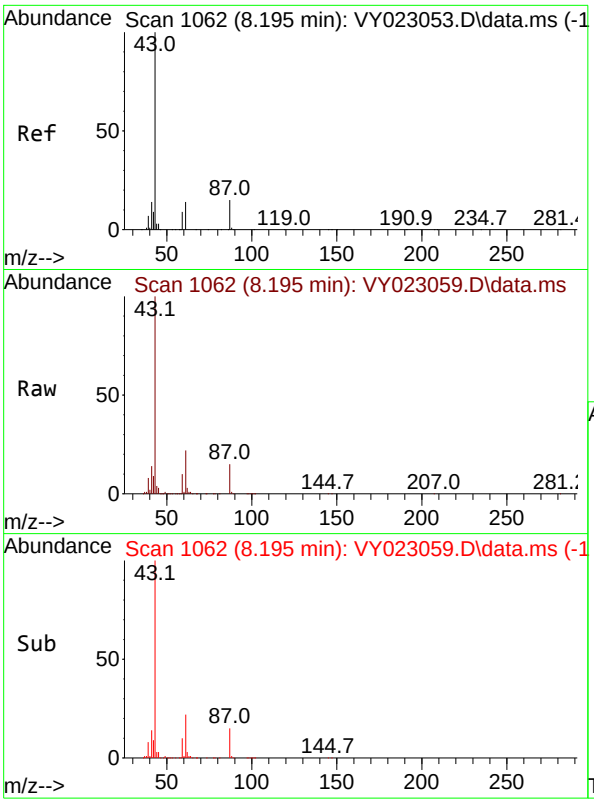


#42
1,2-Dichloroethane
Concen: 47.637 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 287233

Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.6



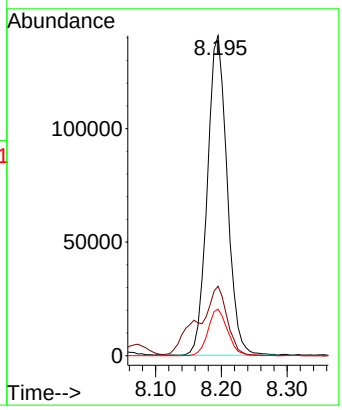


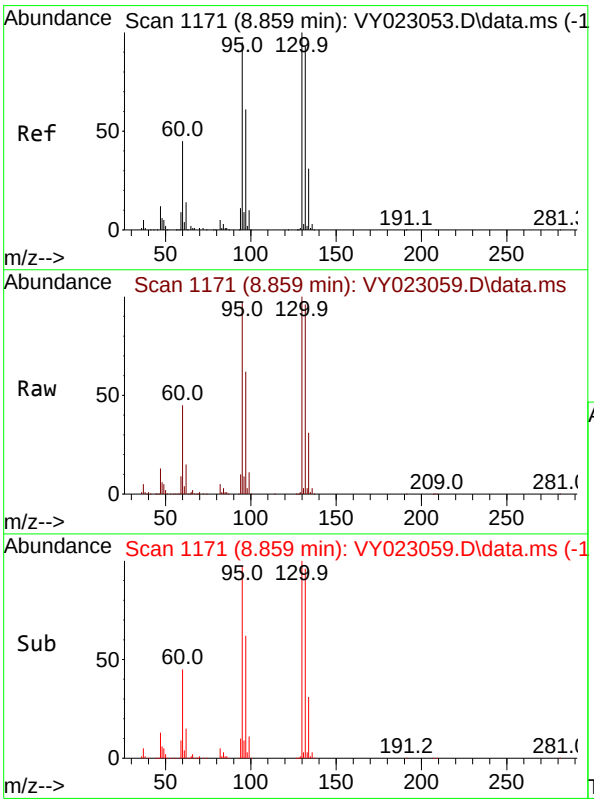
#43
Isopropyl Acetate
Concen: 46.179 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 294919

Ion	Ratio	Lower	Upper
43	100		
61	31.9	16.4	24.6#
87	14.4	11.8	17.6

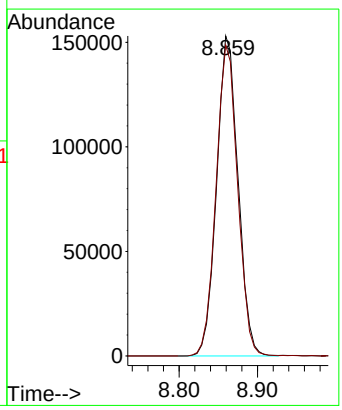


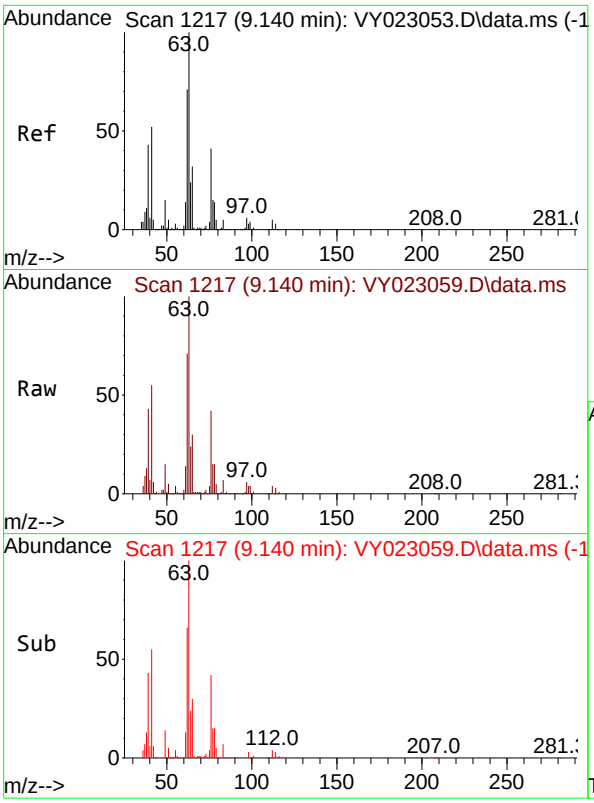


#44
Trichloroethene
Concen: 48.551 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:130 Resp: 290876

Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	190.2



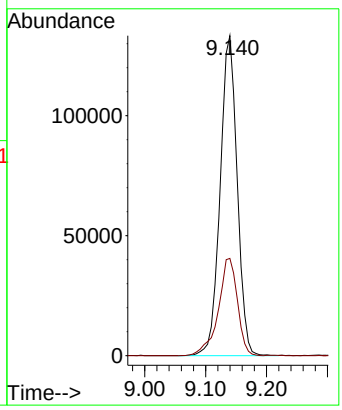


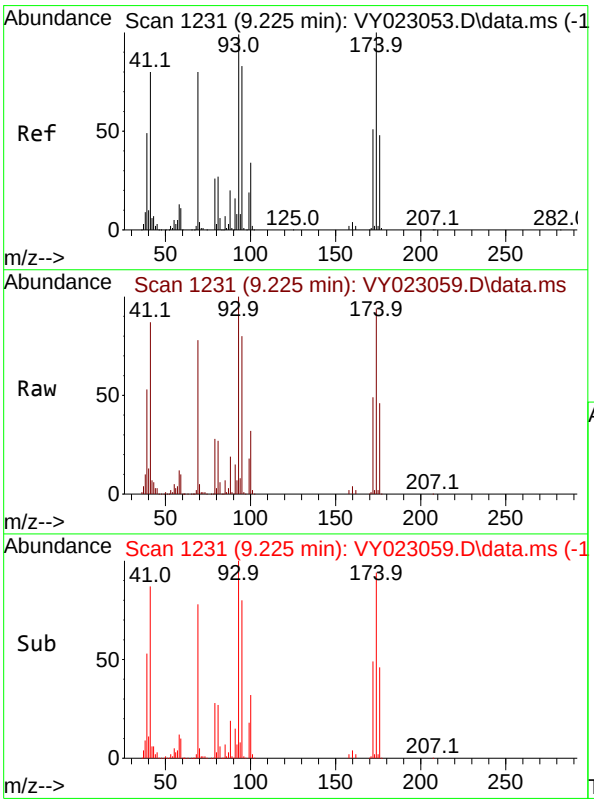
#45
1,2-Dichloropropane
Concen: 48.591 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 259199

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.3	37.9

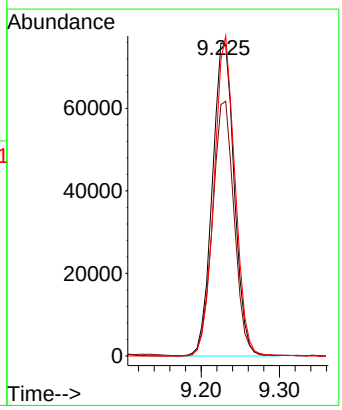


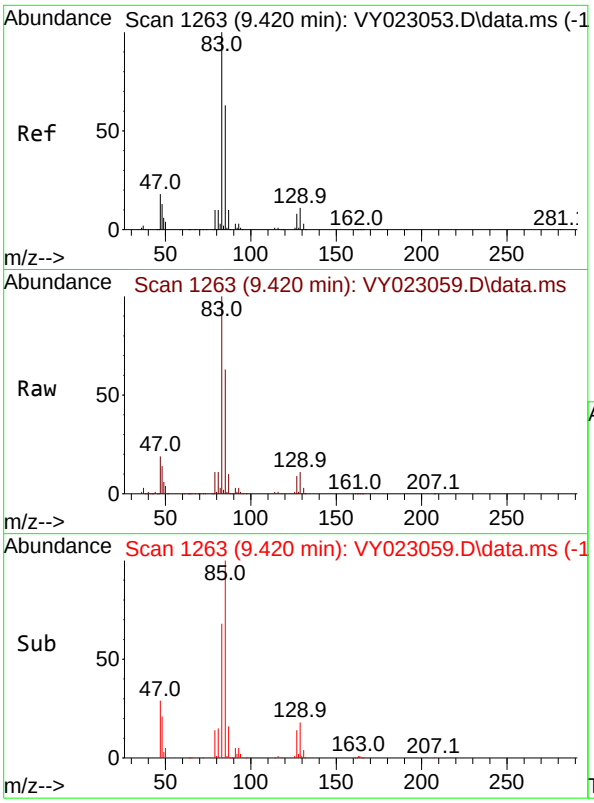


#46
Dibromomethane
Concen: 48.268 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 93 Resp: 147784

Ion	Ratio	Lower	Upper
93	100		
95	80.3	66.5	99.7
174	97.5	81.8	122.8



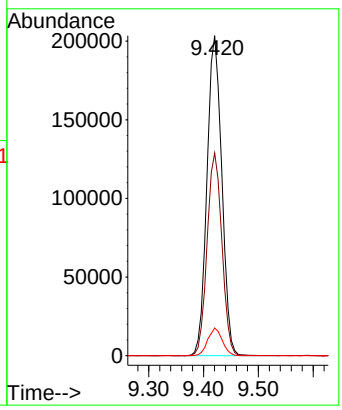


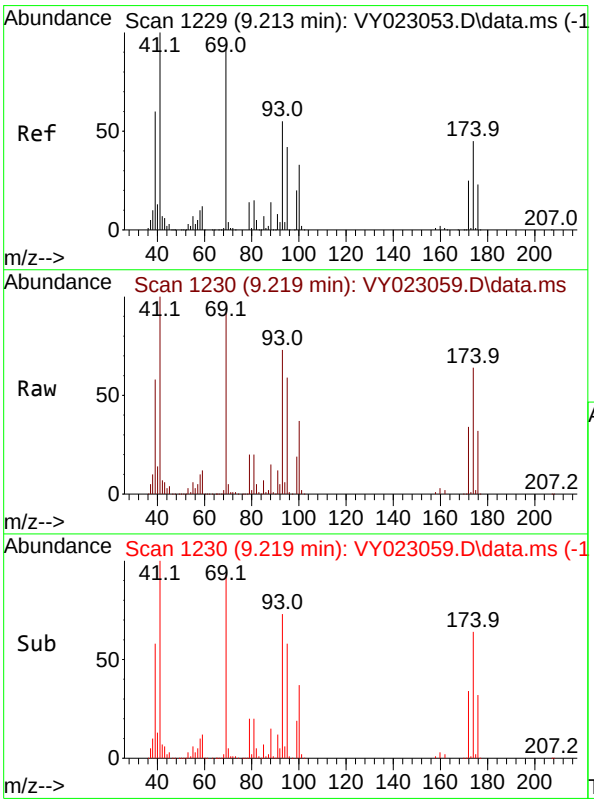
#47
Bromodichloromethane
Concen: 48.276 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 380333

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.2	75.4
127	8.7	6.6	10.0

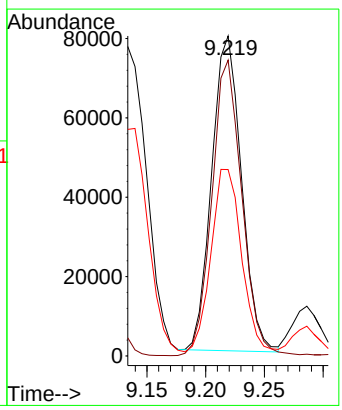


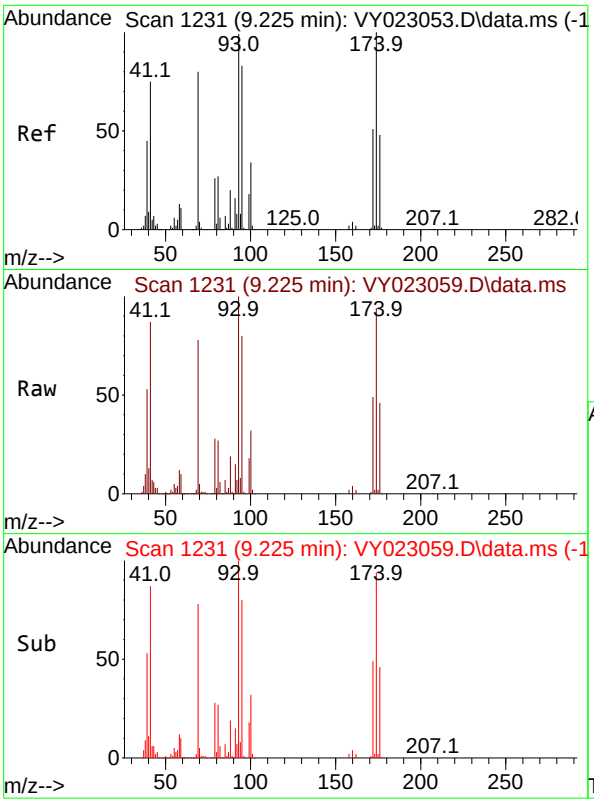


#48
Methyl methacrylate
Concen: 45.747 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 139803

Ion	Ratio	Lower	Upper
41	100		
69	95.0	73.2	109.8
39	59.5	47.0	70.4



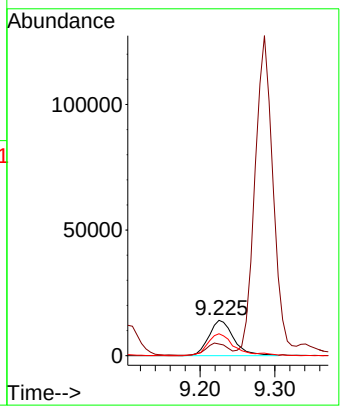


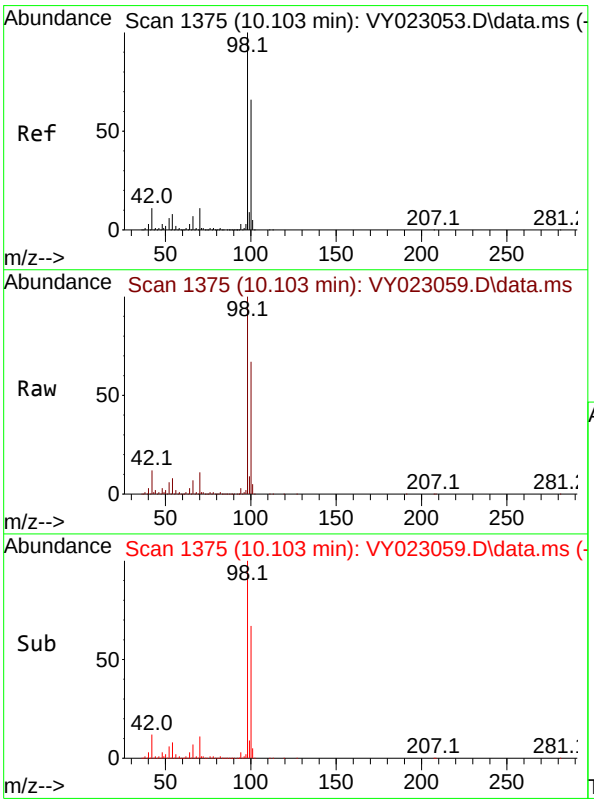
#49
1,4-Dioxane
Concen: 905.464 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 32506

Ion	Ratio	Lower	Upper
88	100		
43	29.3	24.3	36.5
58	62.5	55.4	83.0

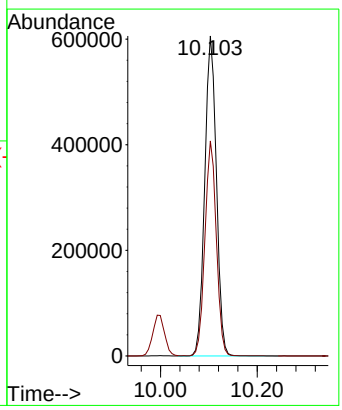


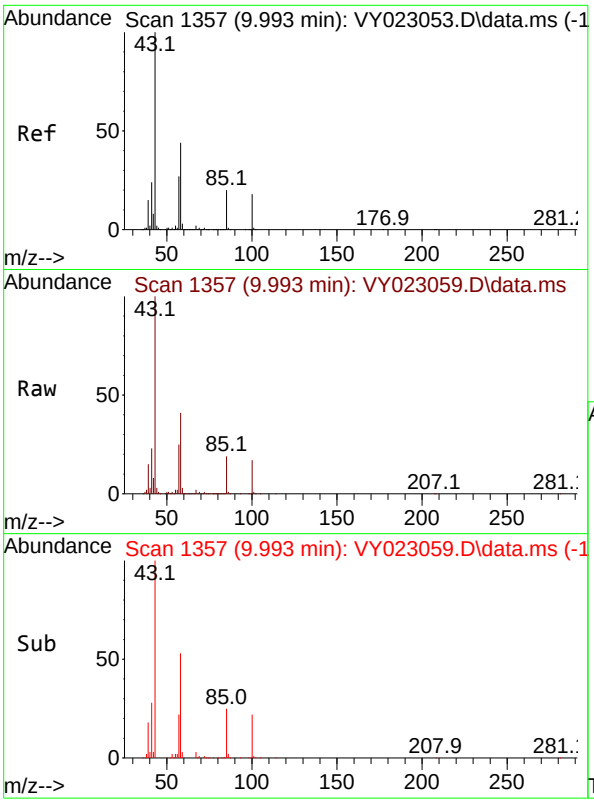


#50
Toluene-d8
Concen: 51.328 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 98 Resp: 1014903

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.3	78.5



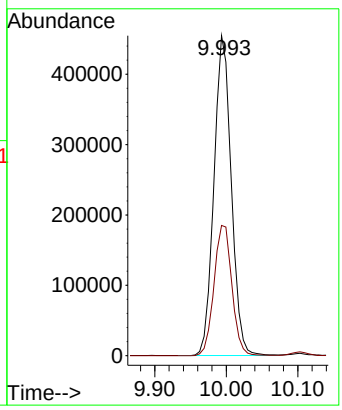


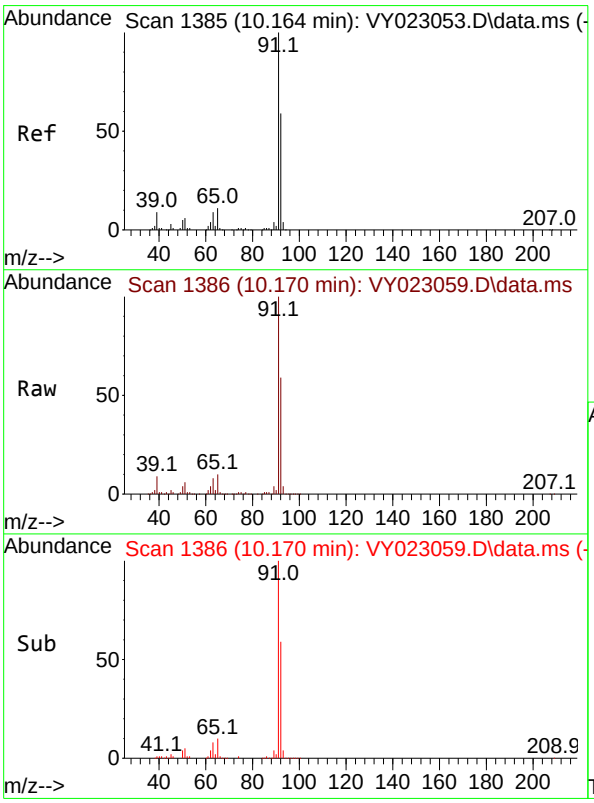
#51
4-Methyl-2-Pentanone
Concen: 232.613 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 766289

Ion	Ratio	Lower	Upper
43	100		
58	42.1	33.5	50.3

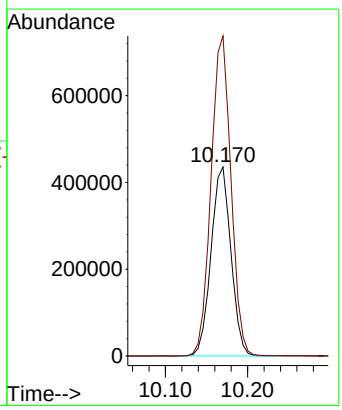


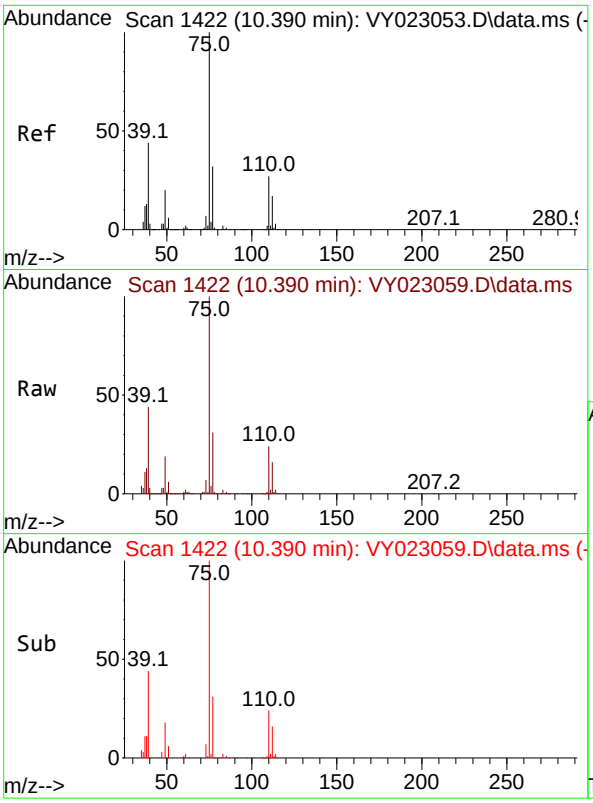


#52
Toluene
Concen: 49.619 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 92 Resp: 730616

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.4	204.6



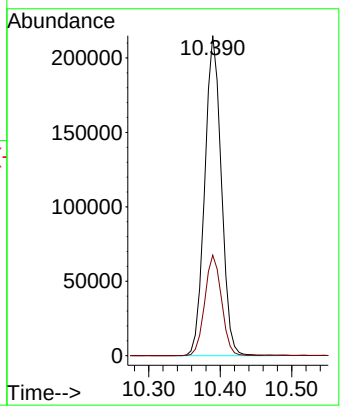


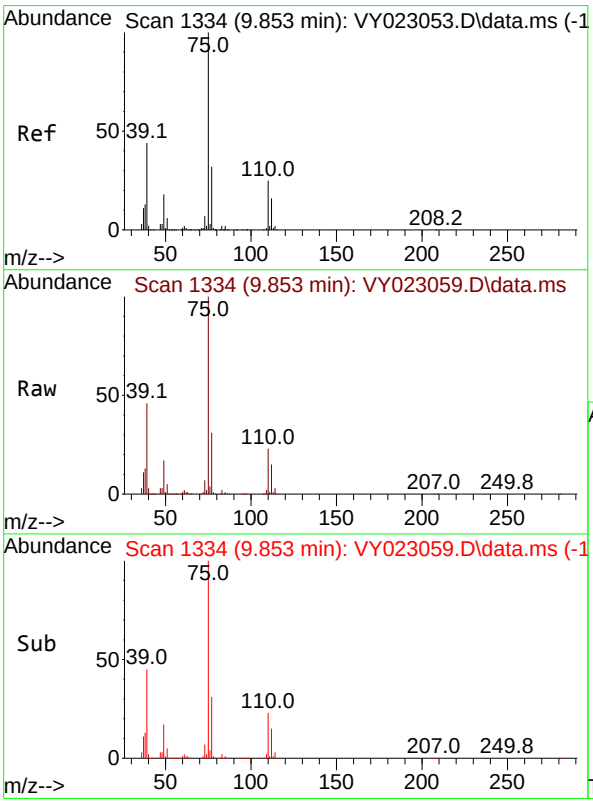
#53
t-1,3-Dichloropropene
Concen: 48.623 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 346881

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5

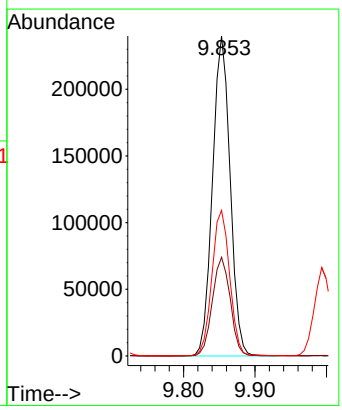


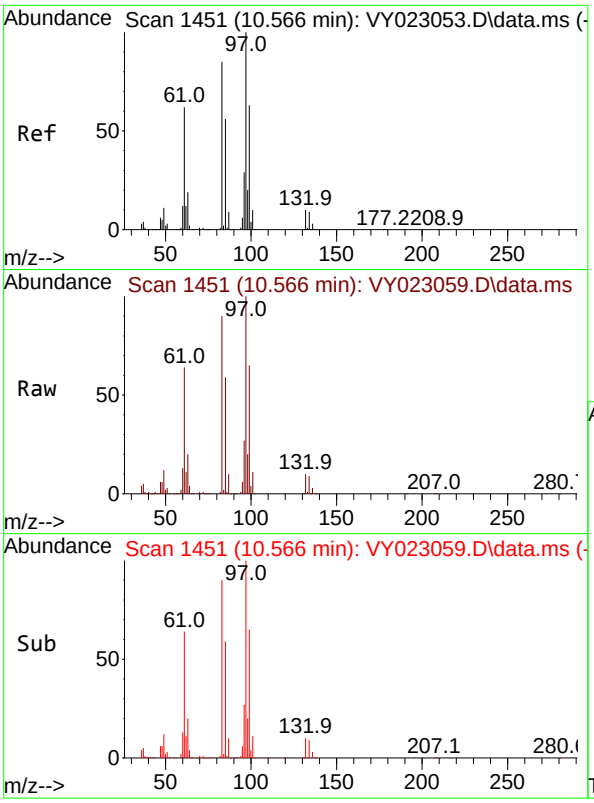


#54
cis-1,3-Dichloropropene
Concen: 48.667 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 410557

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0
39	45.5	35.6	53.4



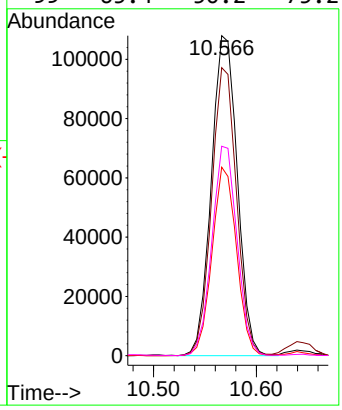


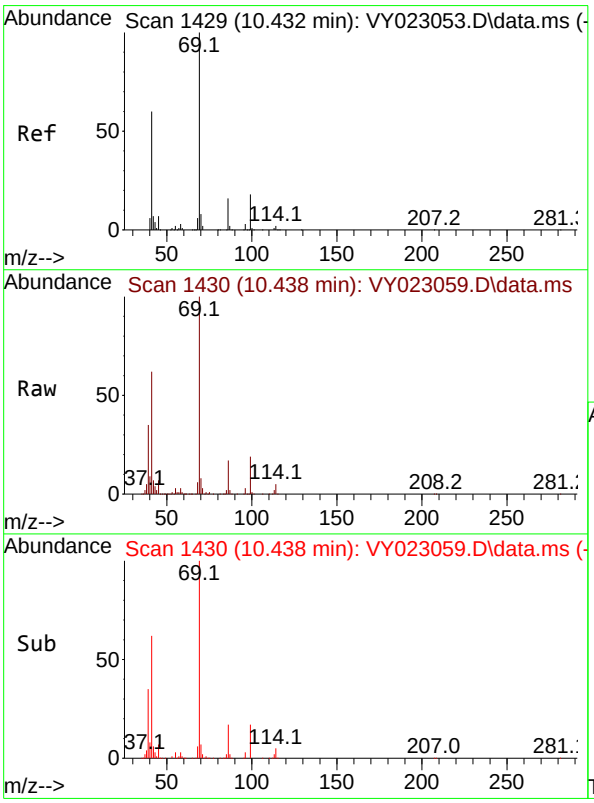
#55
1,1,2-Trichloroethane
Concen: 46.330 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 189812

Ion	Ratio	Lower	Upper
97	100		
83	89.9	67.7	101.5
85	58.8	44.5	66.7
99	65.4	50.2	75.2

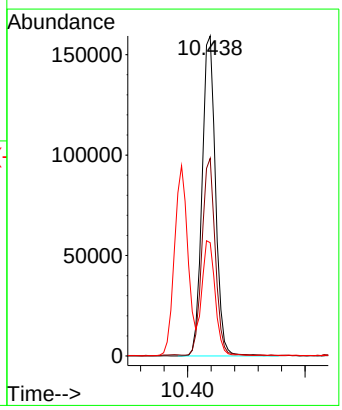


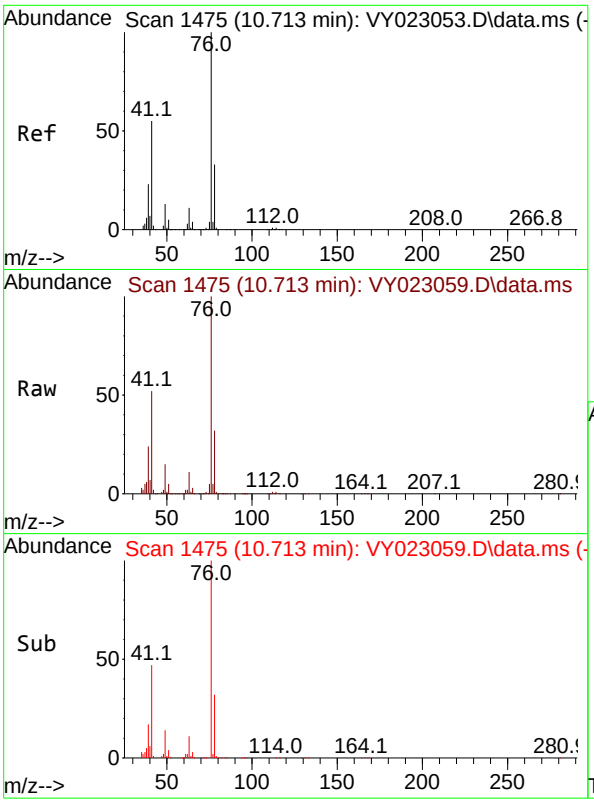


#56
Ethyl methacrylate
Concen: 48.194 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 69 Resp: 252654

Ion	Ratio	Lower	Upper
69	100		
41	61.0	48.6	72.8
39	35.3	27.0	40.4



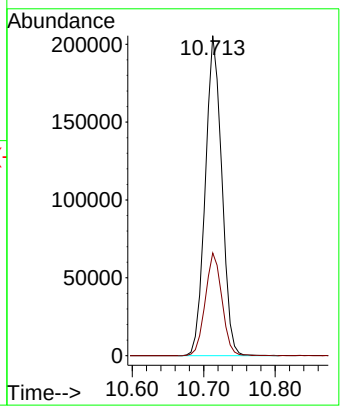


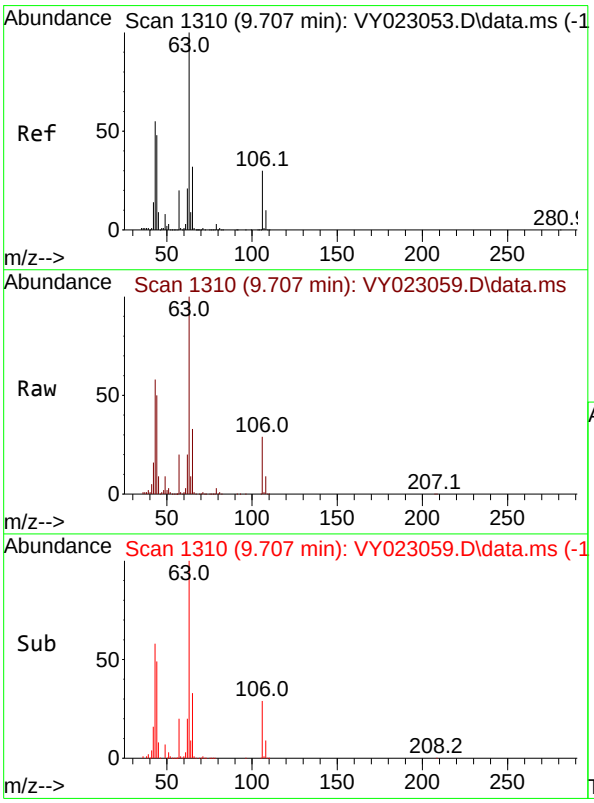
#57
1,3-Dichloropropane
Concen: 47.351 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 328997

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0

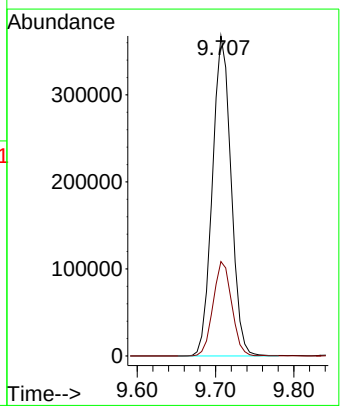


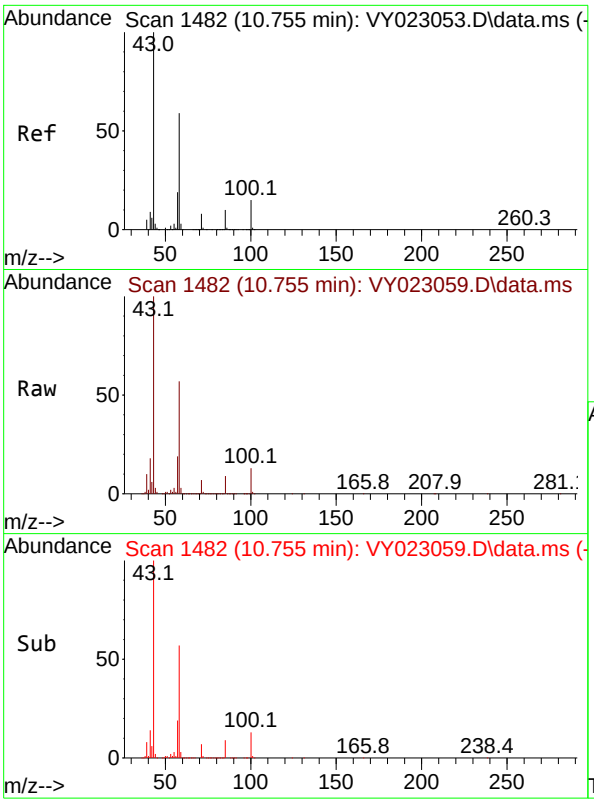


#58
2-Chloroethyl Vinyl ether
Concen: 246.593 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 609788

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.2	34.8



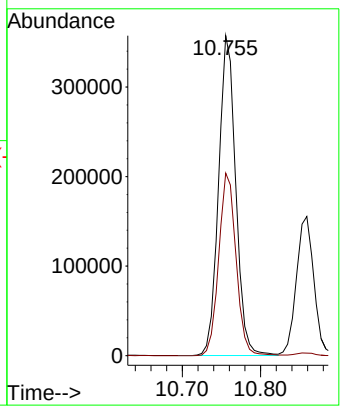


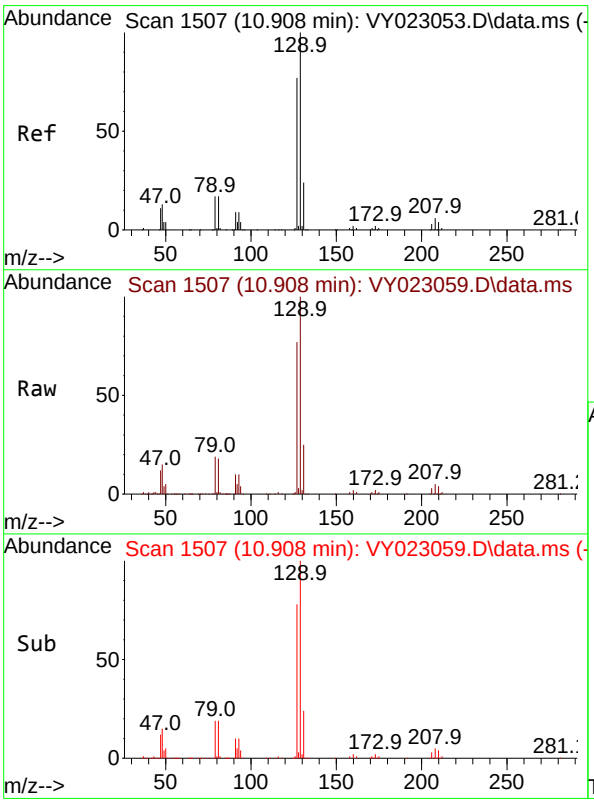
#59
2-Hexanone
Concen: 243.235 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 545617

Ion	Ratio	Lower	Upper
43	100		
58	57.6	29.5	88.5

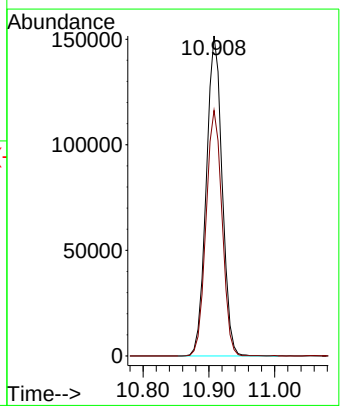


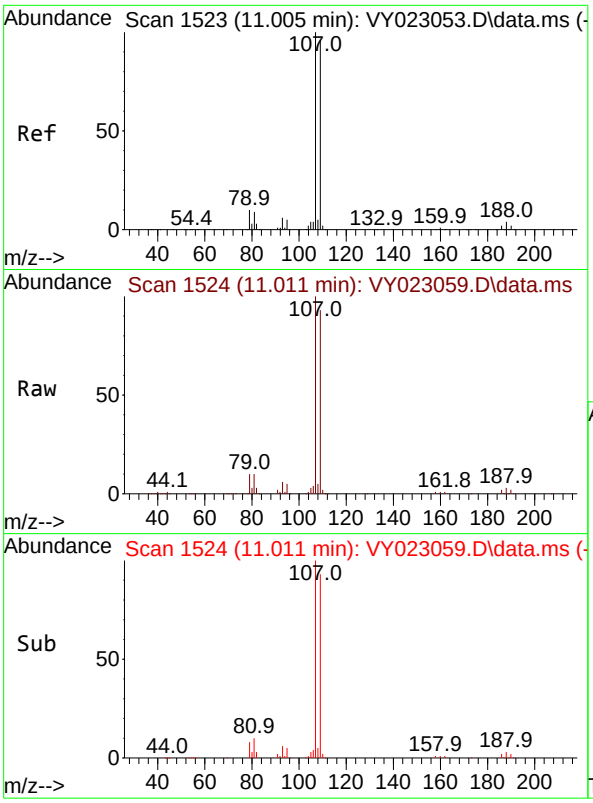


#60
Dibromochloromethane
Concen: 46.904 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:129 Resp: 253556

Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.5	115.5



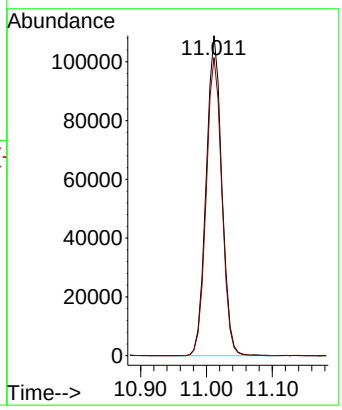


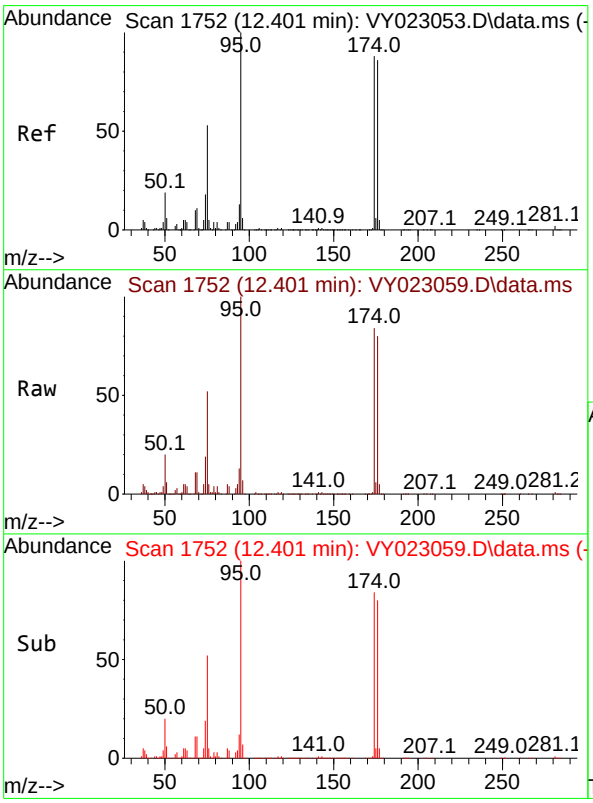
#61
1,2-Dibromoethane
Concen: 46.761 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 180061

Ion	Ratio	Lower	Upper
107	100		
109	93.2	75.6	113.4

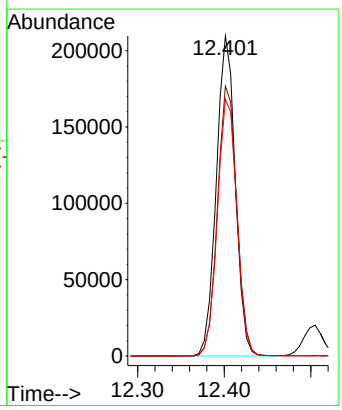


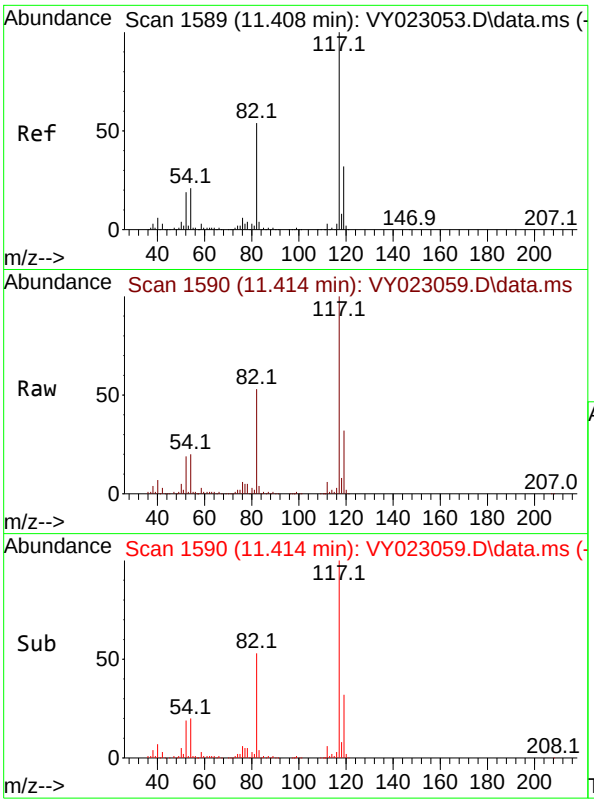


#62
4-Bromofluorobenzene
Concen: 50.020 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 95 Resp: 318073

Ion	Ratio	Lower	Upper
95	100		
174	85.9	0.0	171.6
176	82.6	0.0	167.6



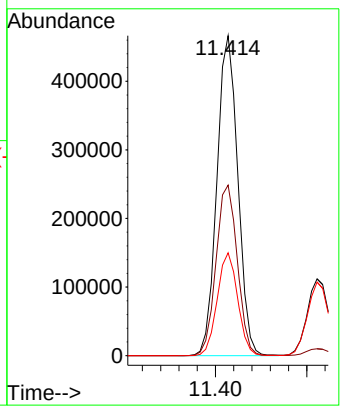


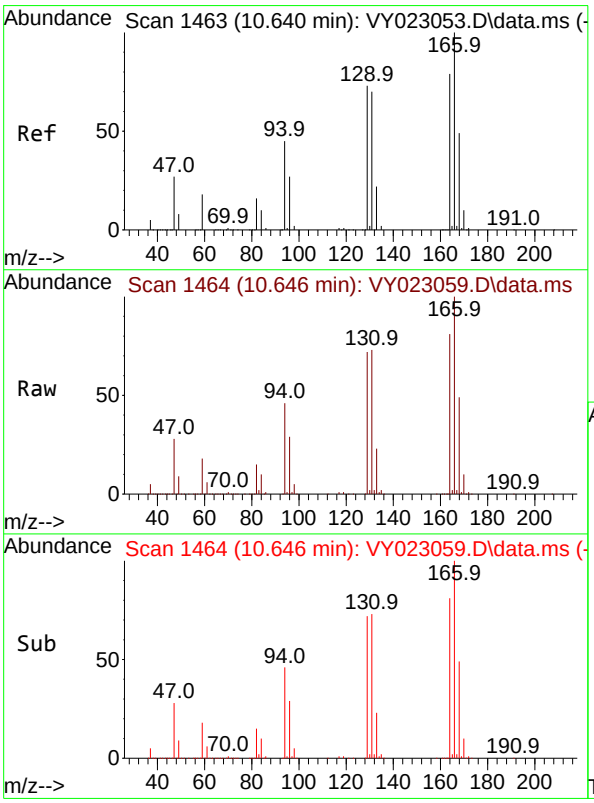
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 741859

Ion	Ratio	Lower	Upper
117	100		
82	53.3	43.4	65.0
119	32.2	25.6	38.4

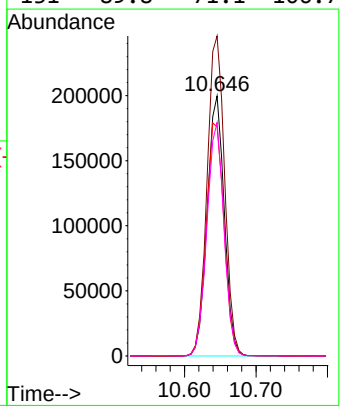


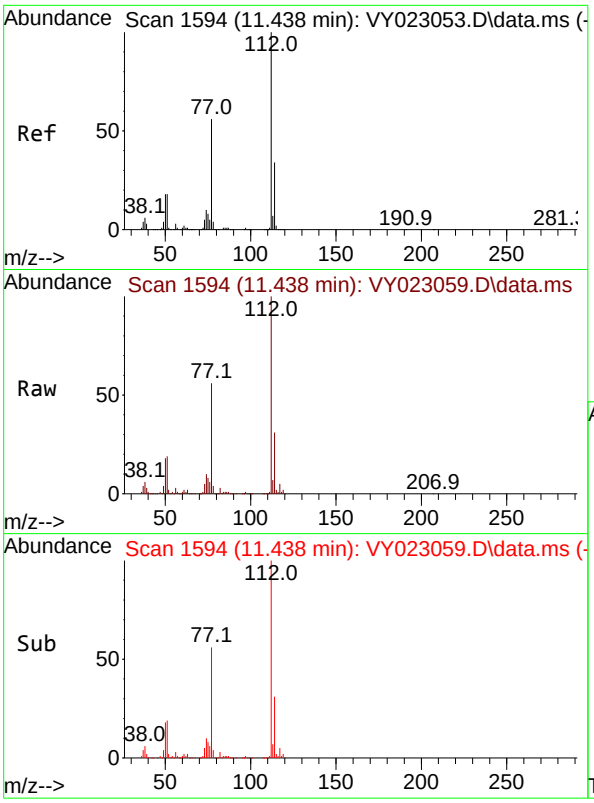


#64
Tetrachloroethene
Concen: 50.070 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:164 Resp: 331676

Ion	Ratio	Lower	Upper
164	100		
166	123.1	101.1	151.7
129	88.1	74.0	111.0
131	89.8	71.1	106.7



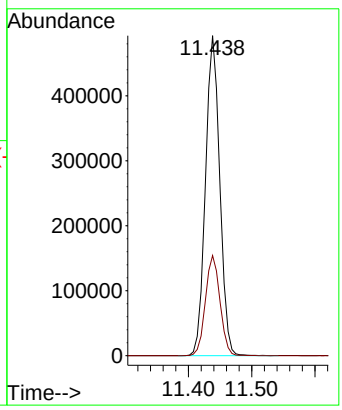


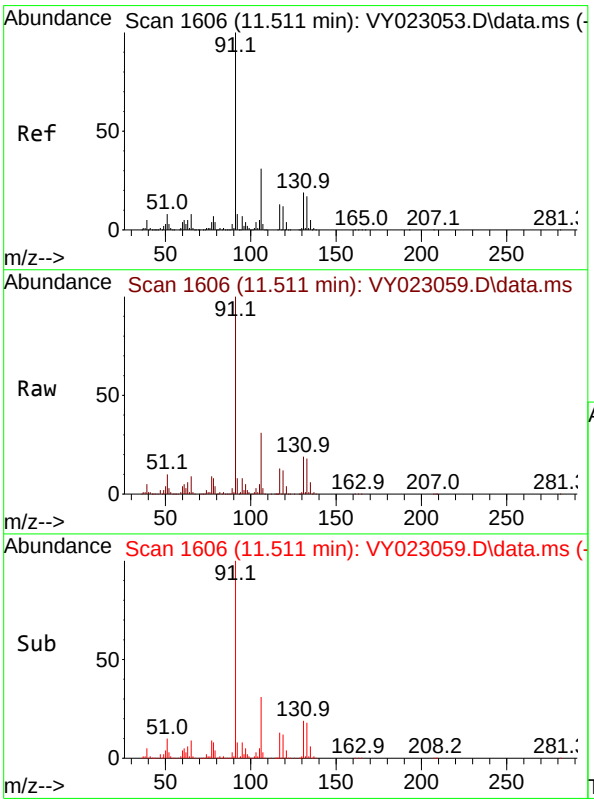
#65
Chlorobenzene
Concen: 48.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 773624

Ion	Ratio	Lower	Upper
112	100		
114	31.3	27.0	40.4

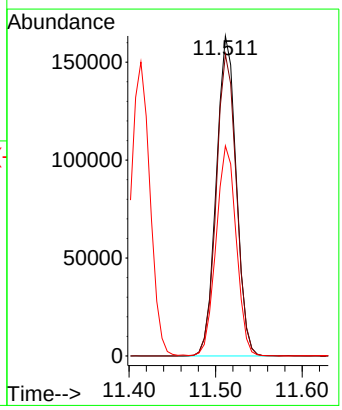


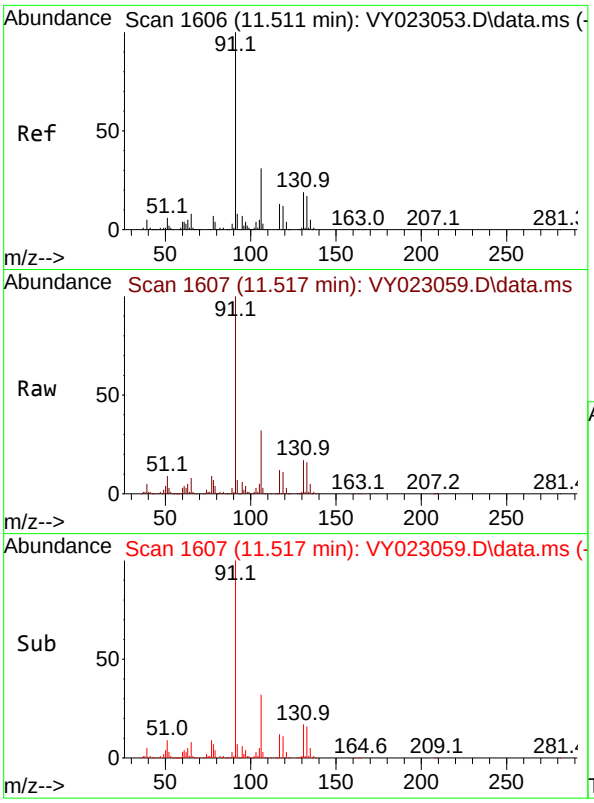


#66
1,1,1,2-Tetrachloroethane
Concen: 48.113 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:131 Resp: 261298

Ion	Ratio	Lower	Upper
131	100		
133	95.3	46.9	140.6
119	66.5	33.2	99.6



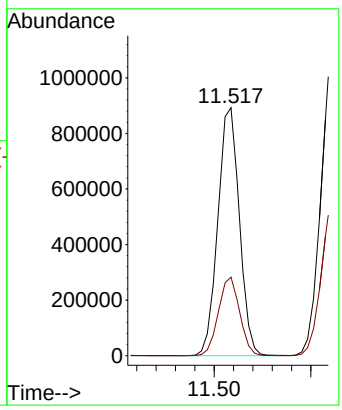


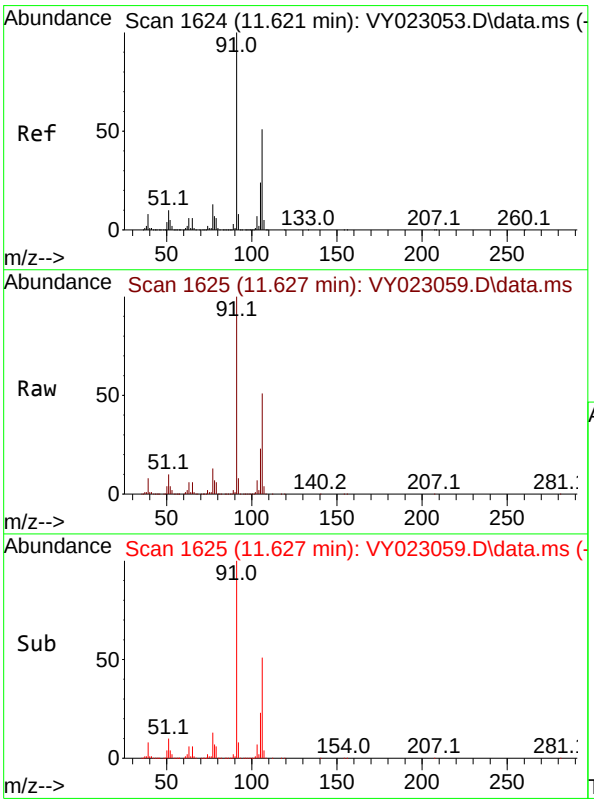
#67
Ethyl Benzene
Concen: 49.987 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1376524

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.0	37.4

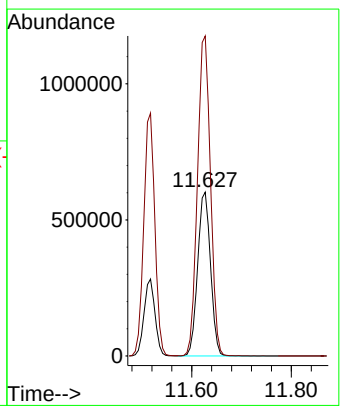


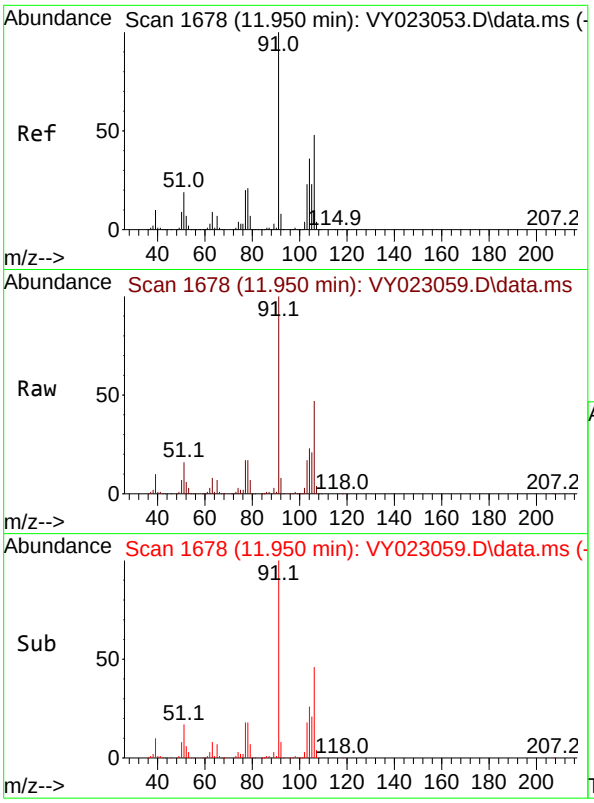


#68
m/p-Xylenes
Concen: 99.994 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:106 Resp: 1075458

Ion	Ratio	Lower	Upper
106	100		
91	197.3	158.6	238.0



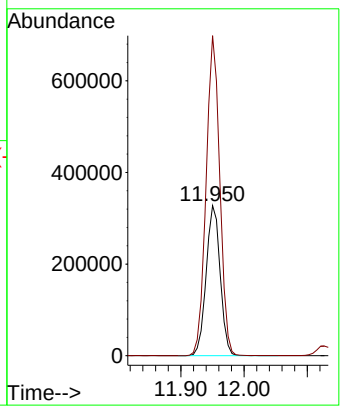


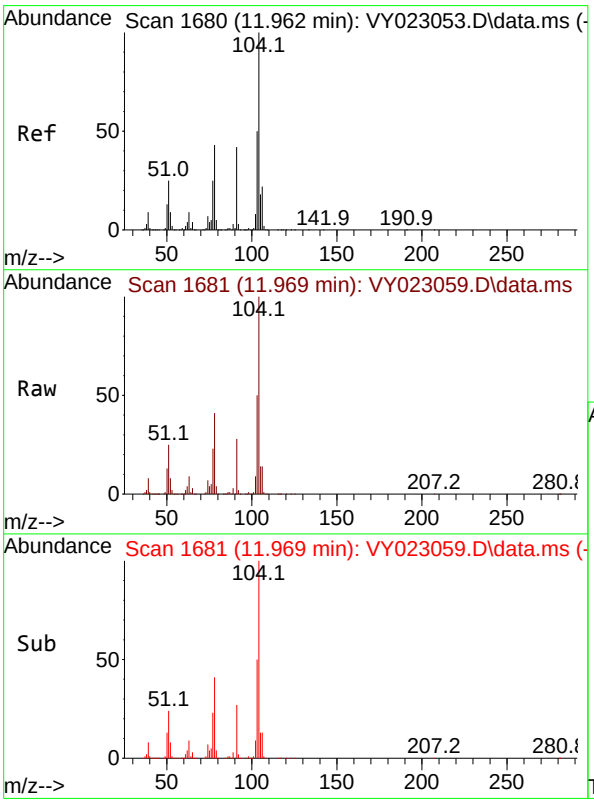
#69
o-Xylene
Concen: 50.162 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 505296

Ion	Ratio	Lower	Upper
106	100		
91	208.1	103.2	309.4

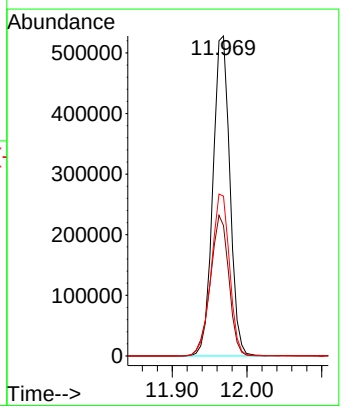


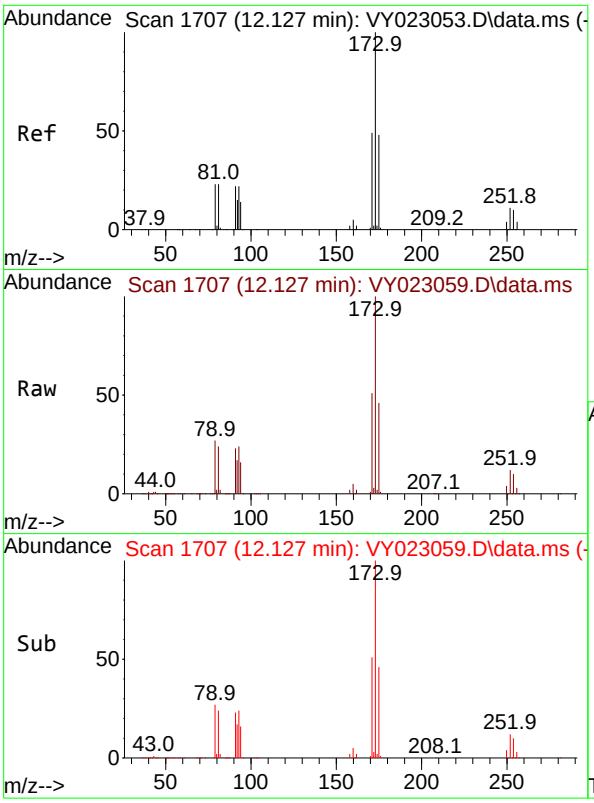


#70
Styrene
Concen: 50.595 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:104 Resp: 833474

Ion	Ratio	Lower	Upper
104	100		
78	47.8	38.5	57.7
103	54.9	43.7	65.5



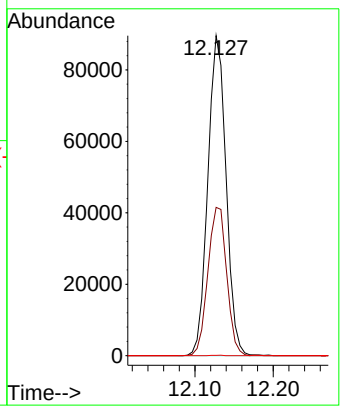


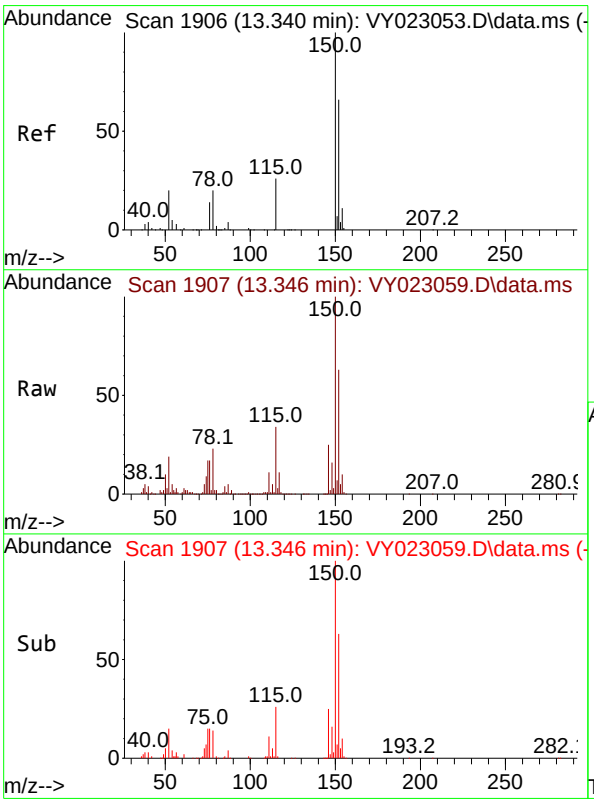
#71
Bromoform
Concen: 45.557 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 144602

Ion	Ratio	Lower	Upper
173	100		
175	47.9	23.9	71.7
254	0.1	0.1	0.1

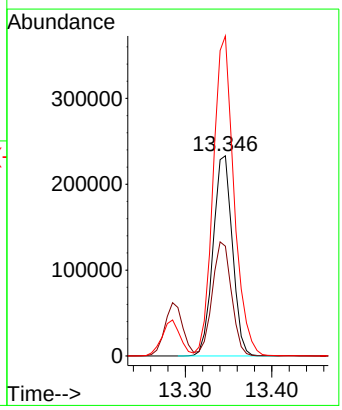


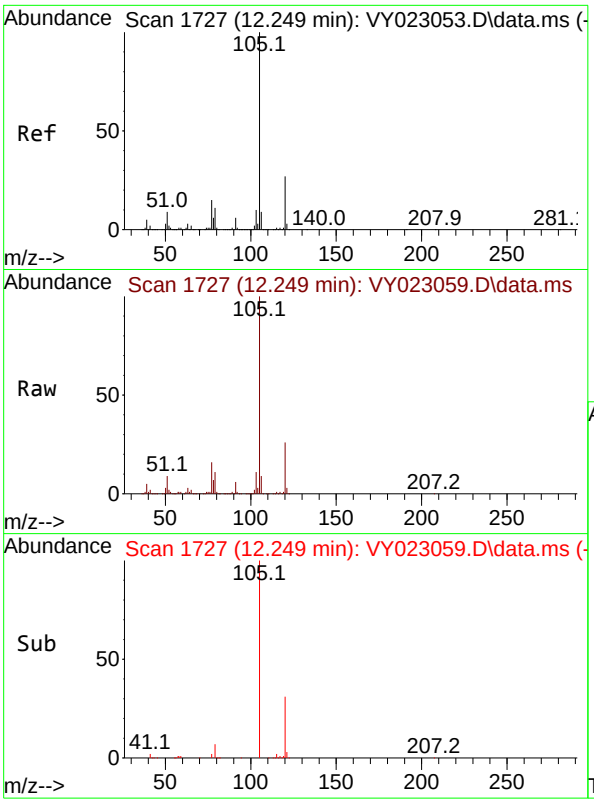


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:152 Resp: 361154

Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.2	84.6
150	172.3	0.0	348.0



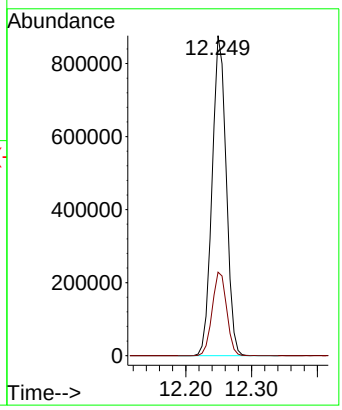


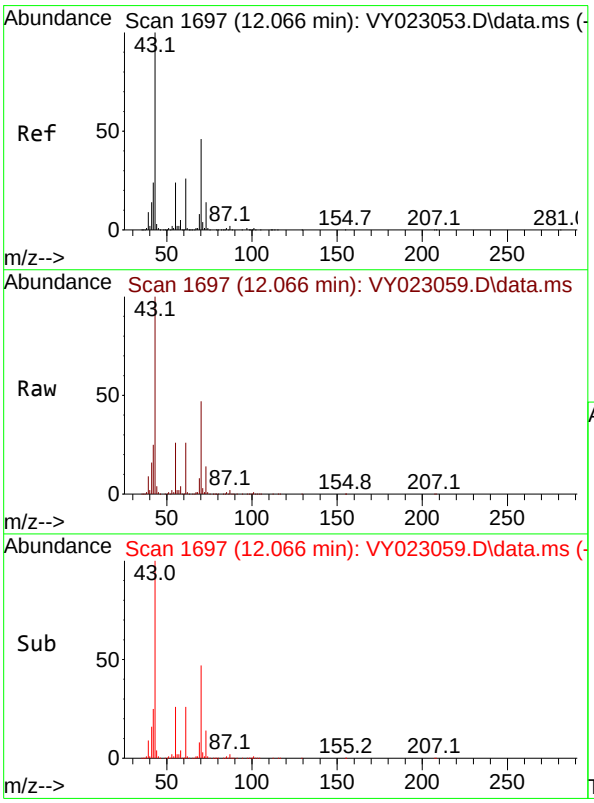
#73
Isopropylbenzene
Concen: 51.327 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1308324

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2

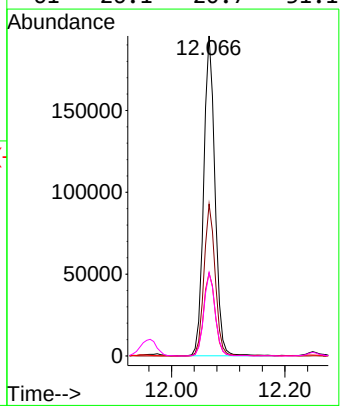


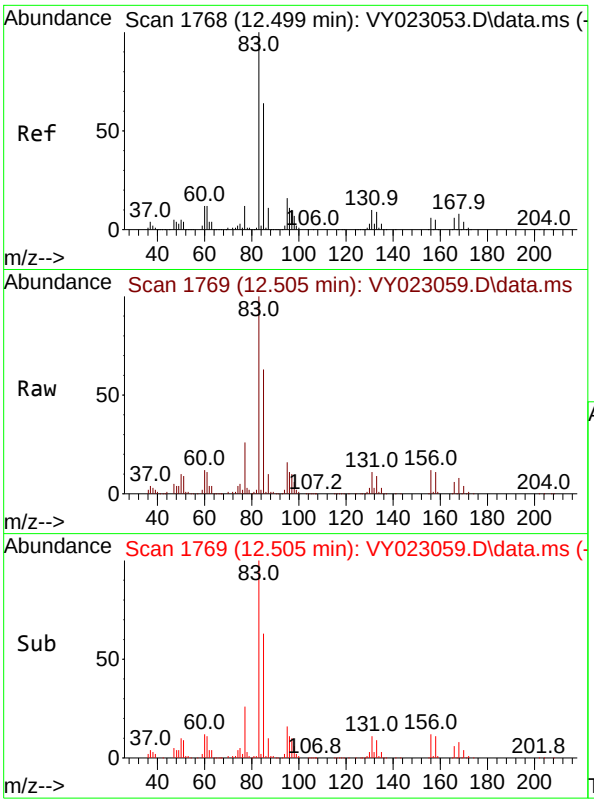


#74
N-amyl acetate
Concen: 49.922 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 269858

Ion	Ratio	Lower	Upper
43	100		
70	47.1	37.5	56.3
55	26.7	20.7	31.1
61	26.1	20.7	31.1



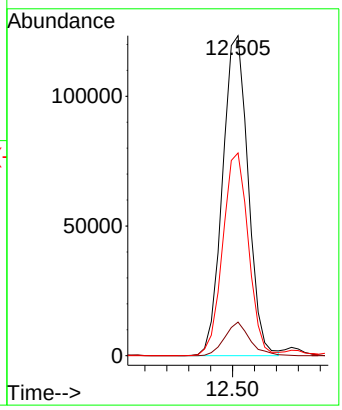


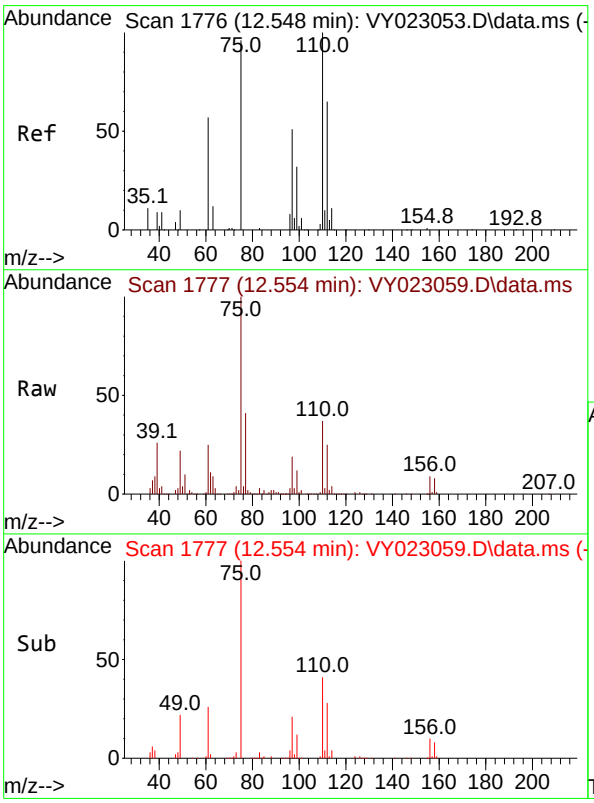
#75
1,1,2,2-Tetrachloroethane
Concen: 45.905 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 199792

Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.3
85	63.6	31.8	95.3

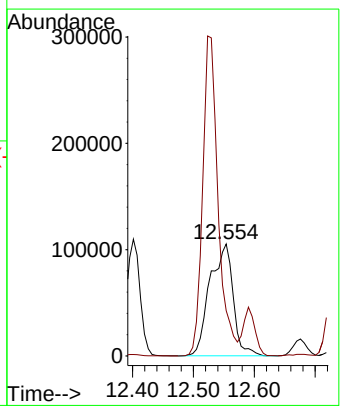


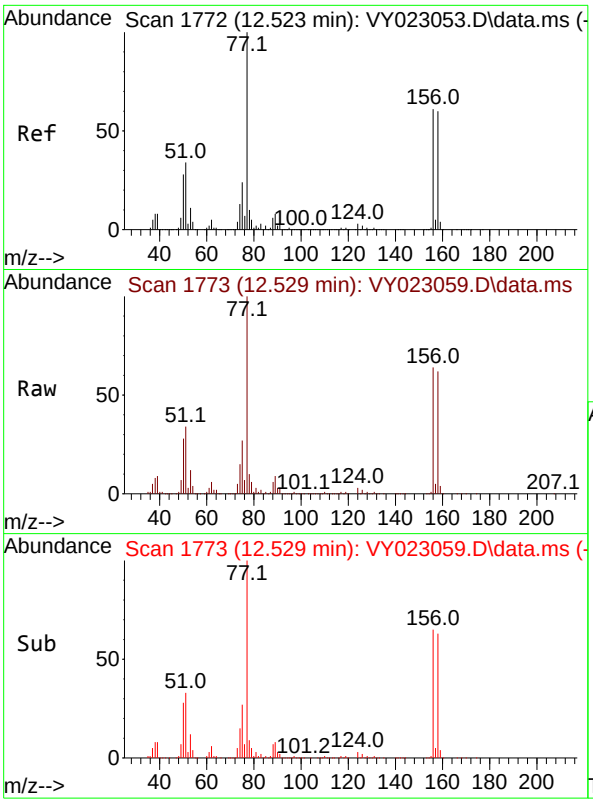


#76
1,2,3-Trichloropropane
Concen: 80.243 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 279690

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



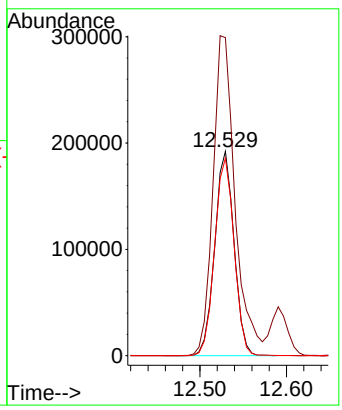


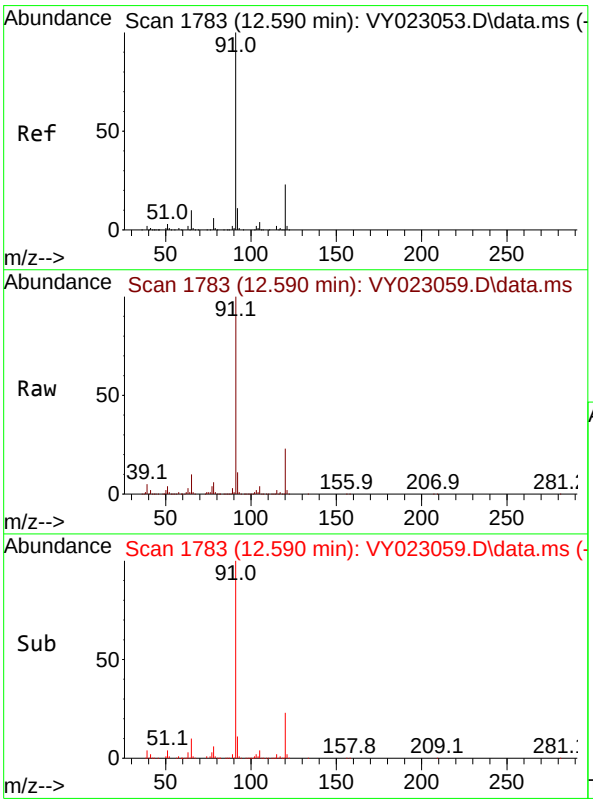
#77
Bromobenzene
Concen: 48.794 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 296723

Ion	Ratio	Lower	Upper
156	100		
77	179.1	88.1	264.4
158	97.6	48.0	144.0

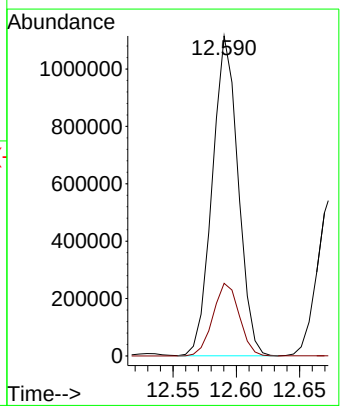


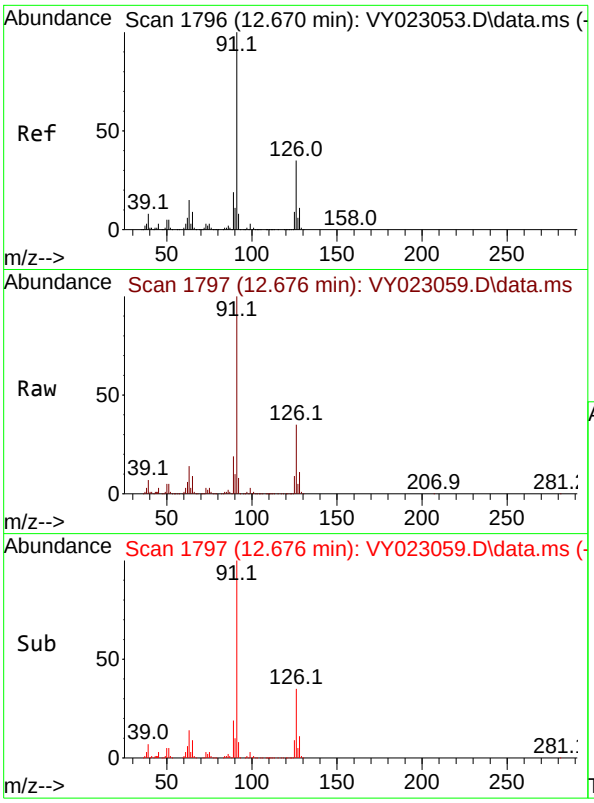


#78
n-propylbenzene
Concen: 52.061 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 1579912

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5



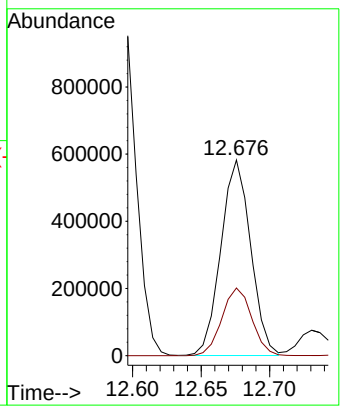


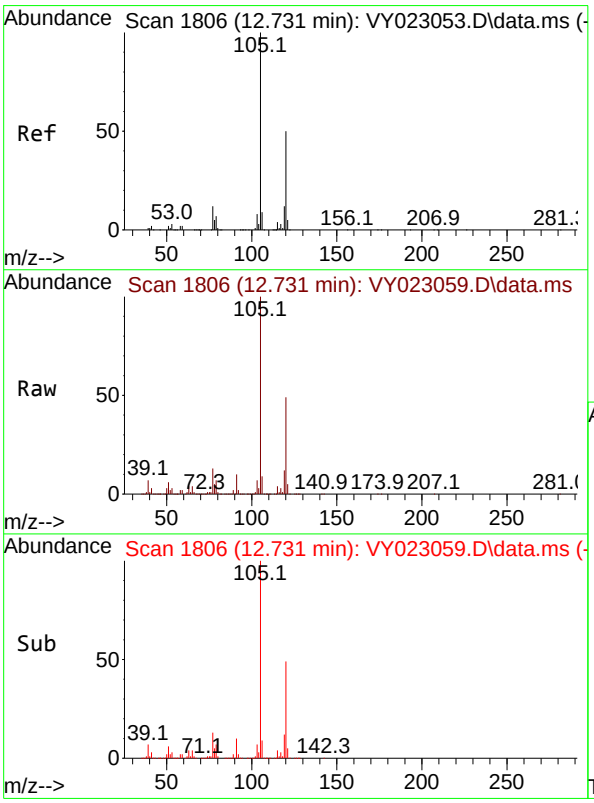
#79
2-Chlorotoluene
Concen: 50.703 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 881616

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

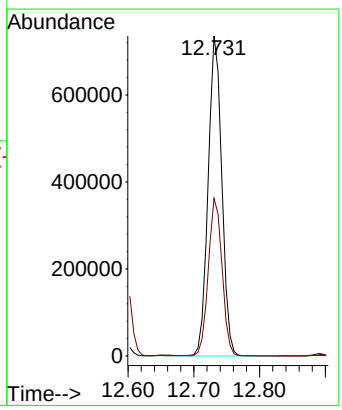


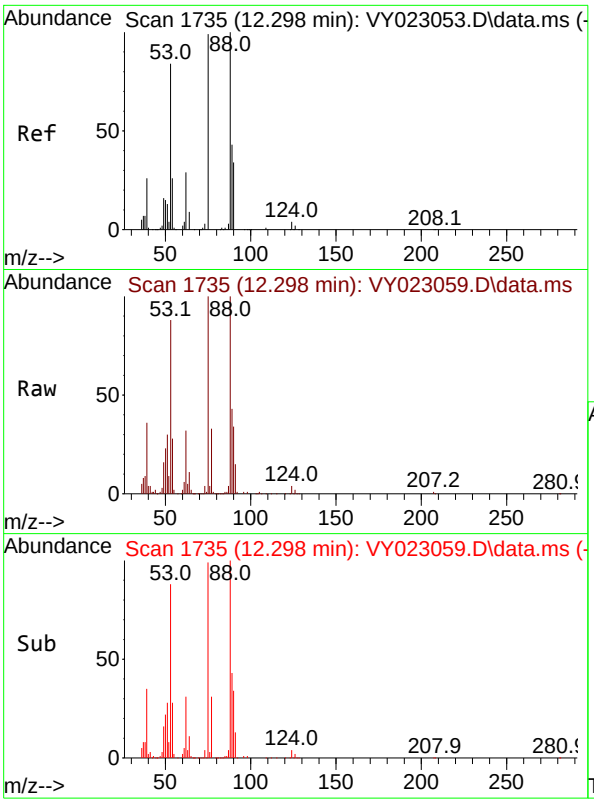


#80
1,3,5-Trimethylbenzene
Concen: 51.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1062229

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



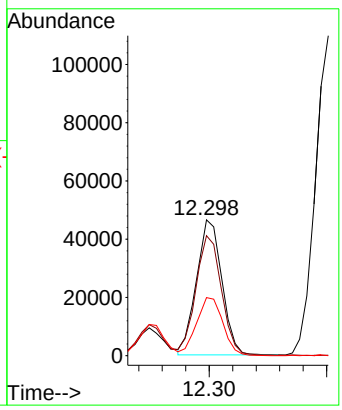


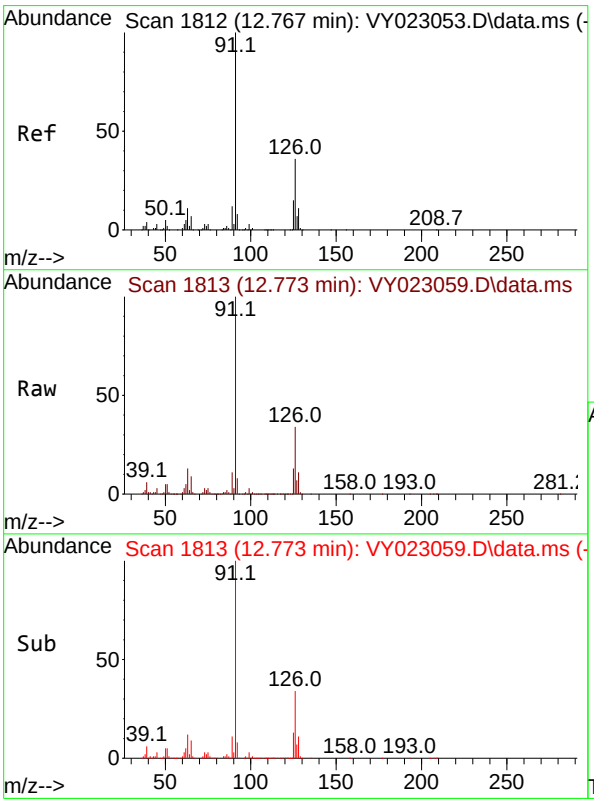
#81
trans-1,4-Dichloro-2-butene
Concen: 48.354 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 69624

Ion	Ratio	Lower	Upper
75	100		
53	89.4	70.8	106.2
89	44.8	38.1	57.1

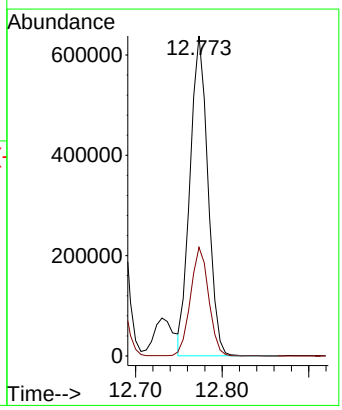


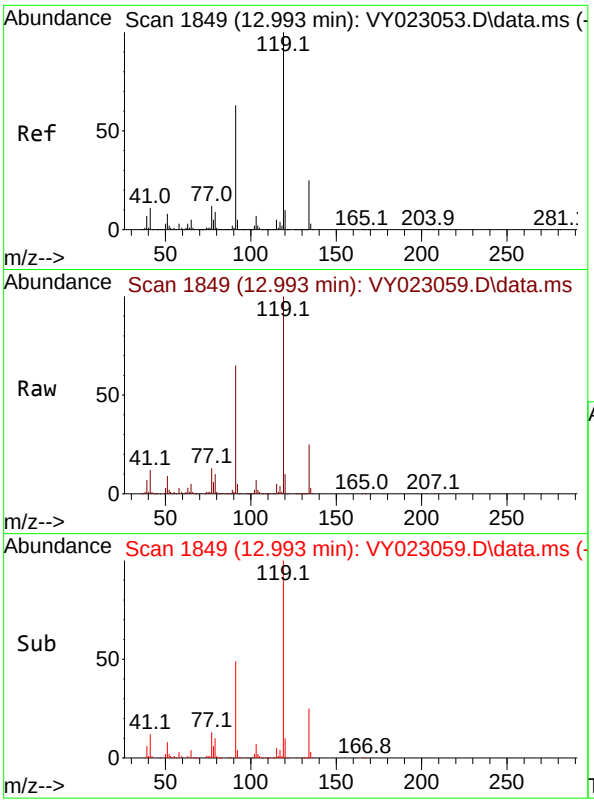


#82
4-Chlorotoluene
Concen: 50.659 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 913772

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	52.0



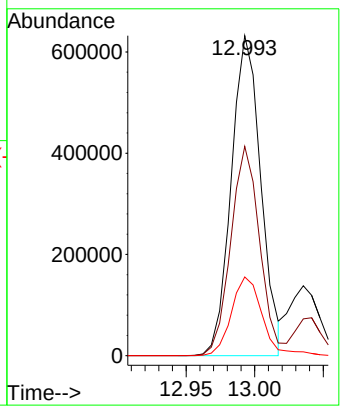


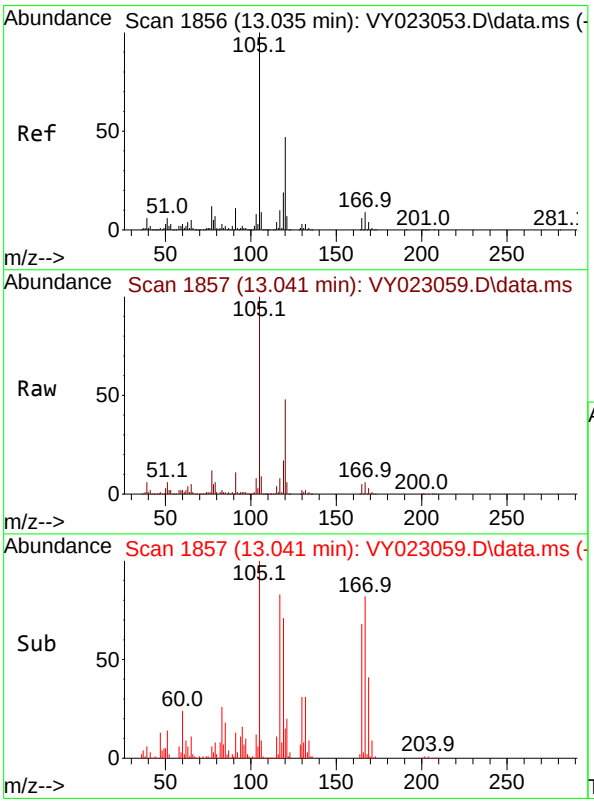
#83
tert-Butylbenzene
Concen: 51.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 950248

Ion	Ratio	Lower	Upper
119	100		
91	64.3	31.6	94.8
134	25.8	12.9	38.7

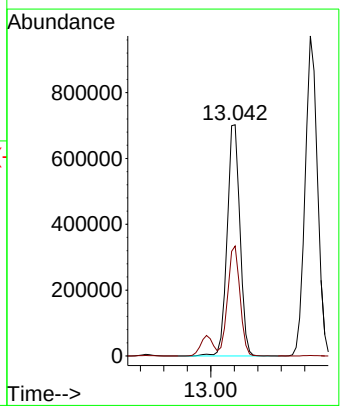


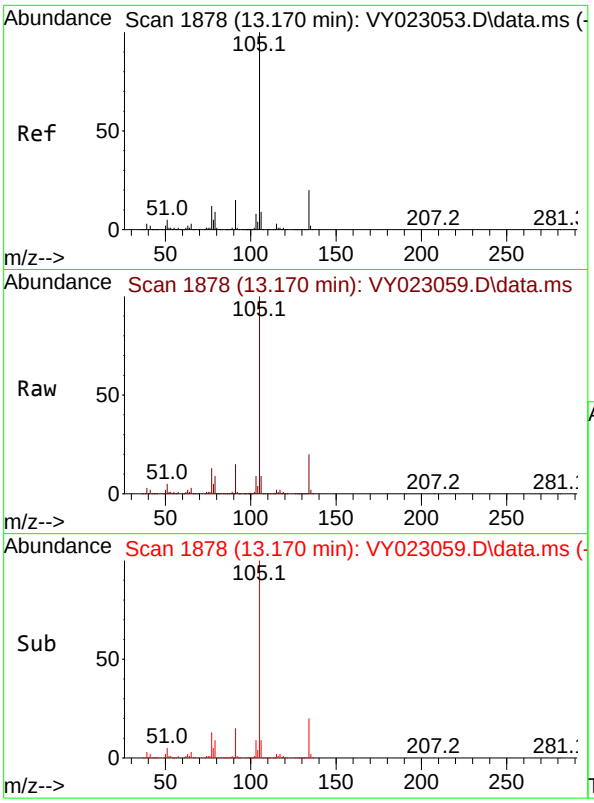


#84
1,2,4-Trimethylbenzene
Concen: 51.723 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1060687

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.0	69.0



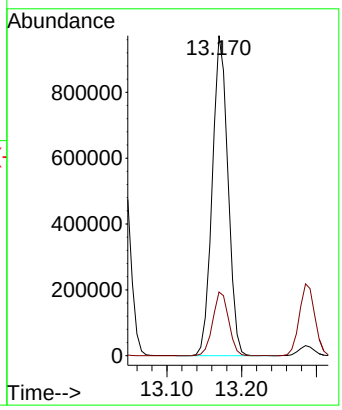


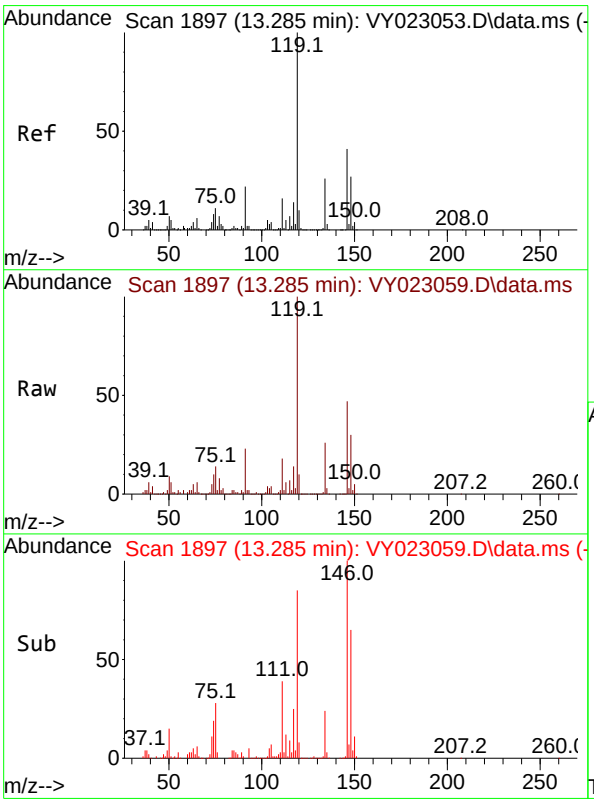
#85
sec-Butylbenzene
Concen: 51.748 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1414361

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.2	30.4

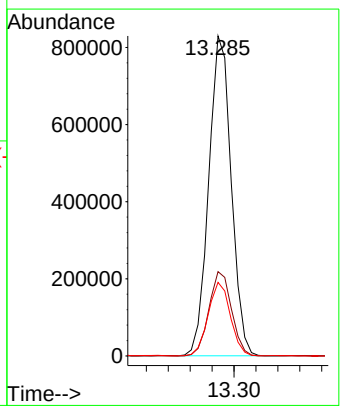


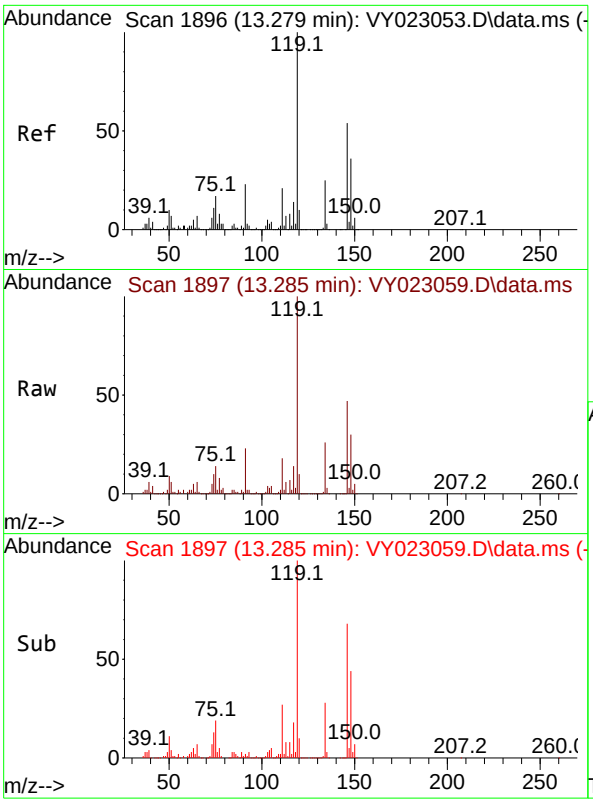


#86
p-Isopropyltoluene
Concen: 52.130 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:119 Resp: 1182656

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.2	39.6
91	22.7	11.3	33.8



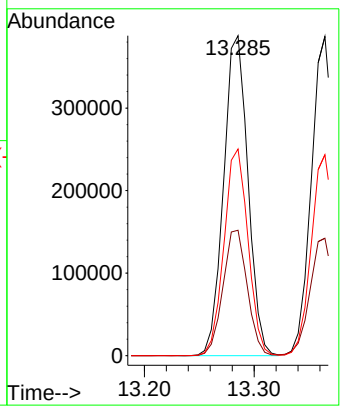


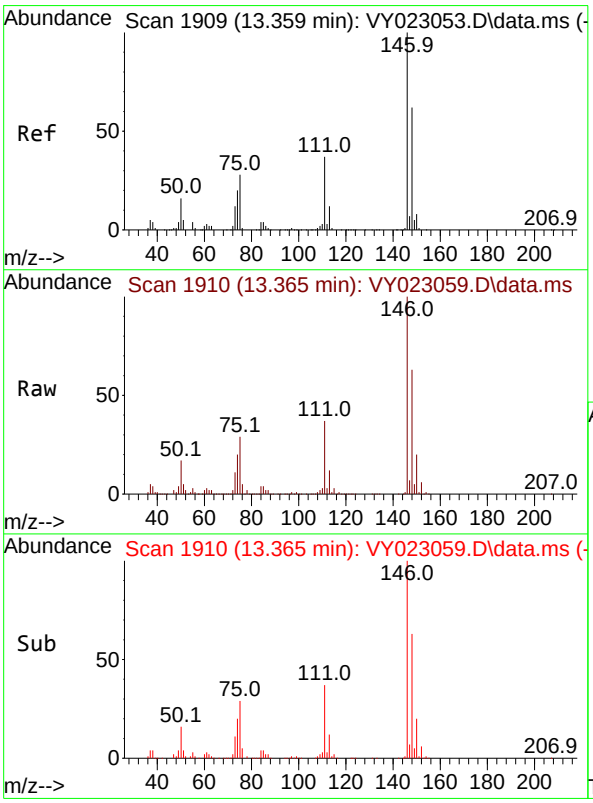
#87
1,3-Dichlorobenzene
Concen: 49.866 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 598001

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.7
148	63.7	32.5	97.5

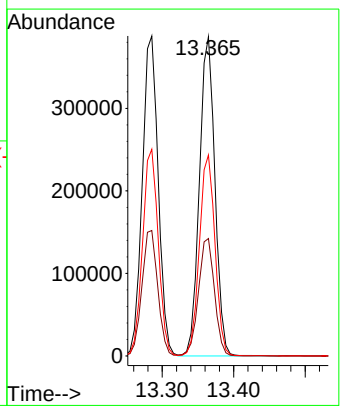


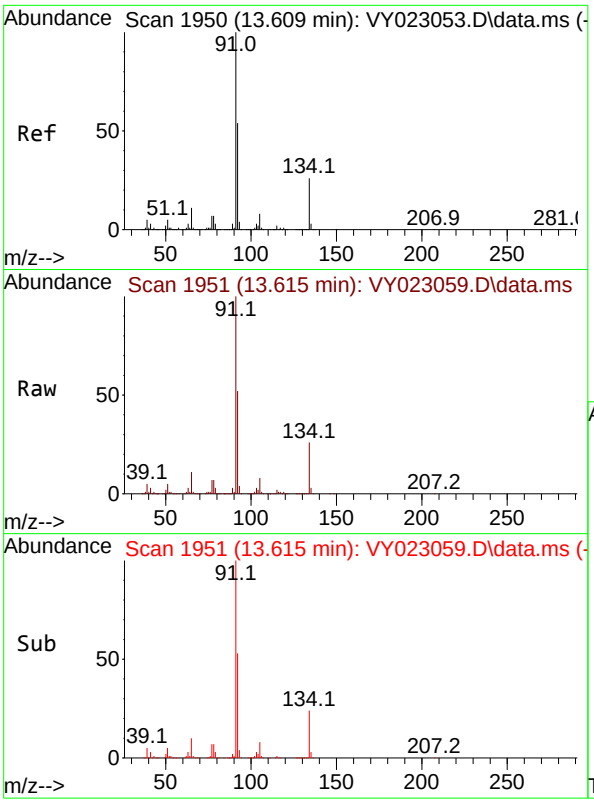


#88
1,4-Dichlorobenzene
Concen: 48.956 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 582375

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.1
148	63.5	31.6	94.7



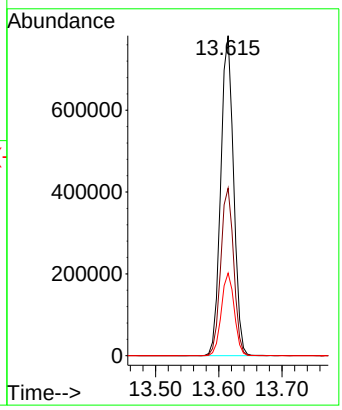


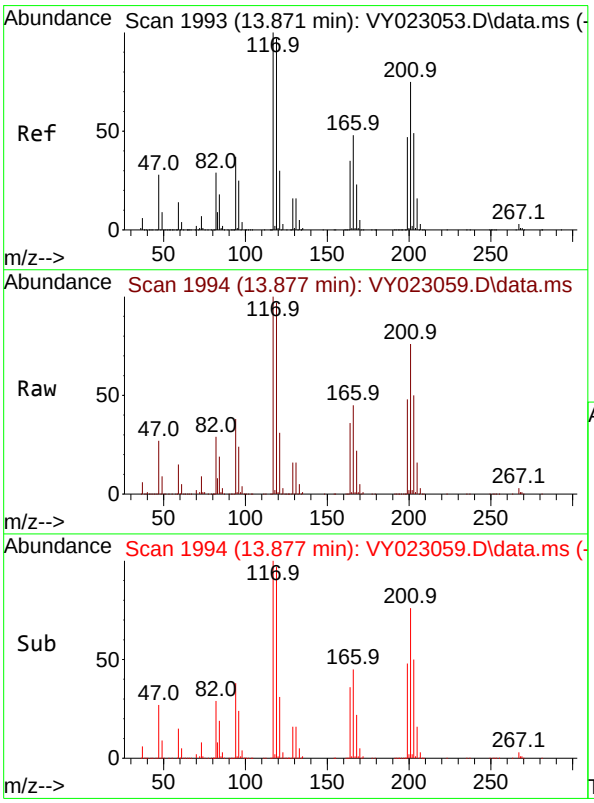
#89
n-Butylbenzene
Concen: 52.737 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1098867

Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.7
134	25.9	13.2	39.5

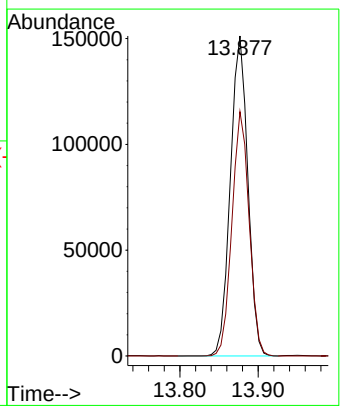


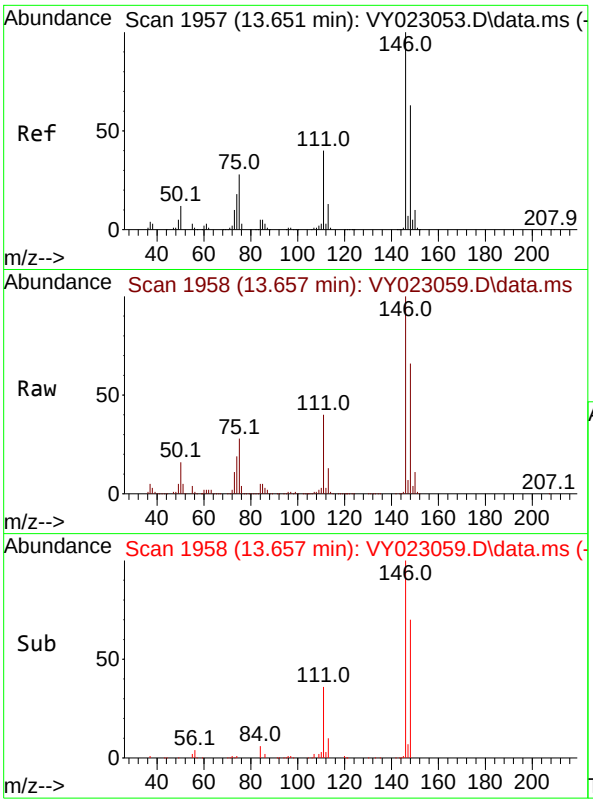


#90
Hexachloroethane
Concen: 50.439 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 234252

Ion	Ratio	Lower	Upper
117	100		
201	75.0	38.4	115.1



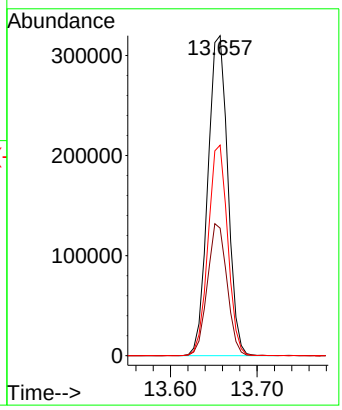


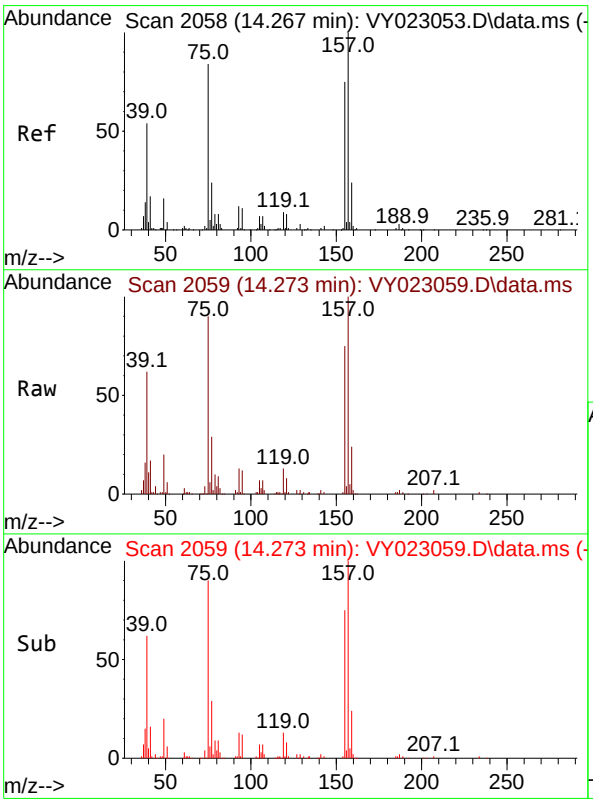
#91
1,2-Dichlorobenzene
Concen: 48.490 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 509973

Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.3	60.8
148	64.7	32.2	96.6

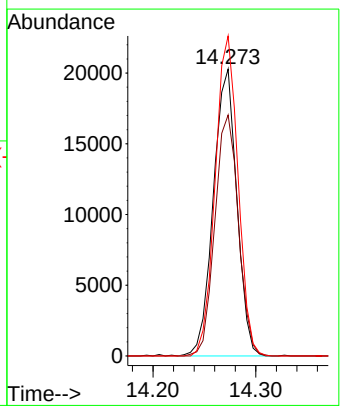


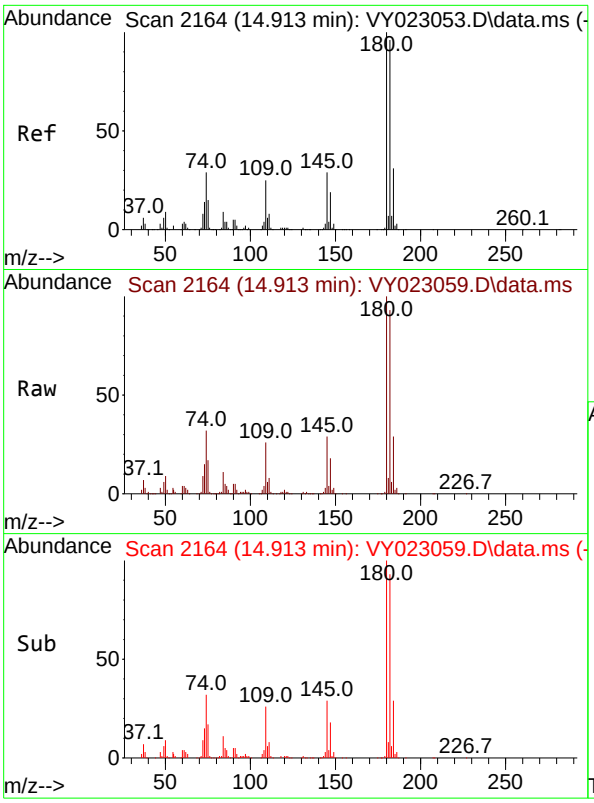


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.451 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 32155

Ion	Ratio	Lower	Upper
75	100		
155	83.9	43.9	131.6
157	108.4	57.2	171.6



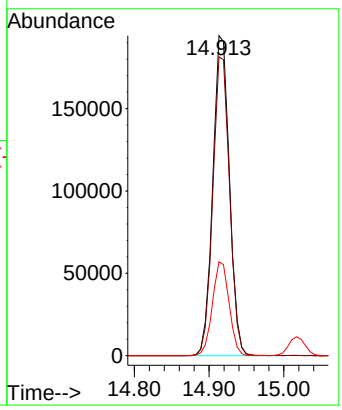


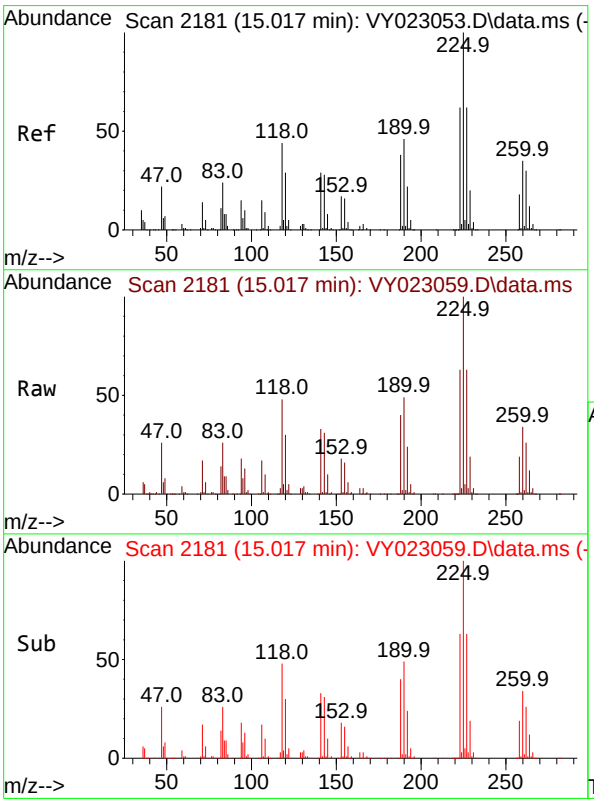
#93
1,2,4-Trichlorobenzene
Concen: 48.250 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 300082

Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.8	140.4
145	29.5	14.4	43.4

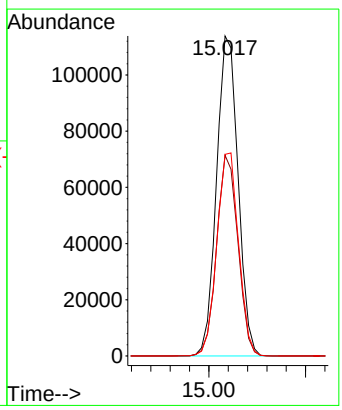


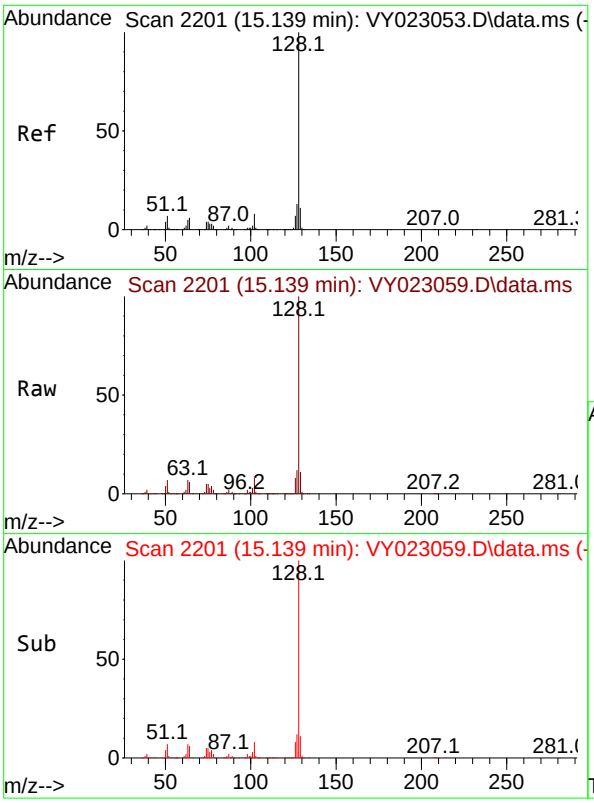


#94
Hexachlorobutadiene
Concen: 48.048 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:225 Resp: 175599

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.3	93.8
227	64.2	31.5	94.5



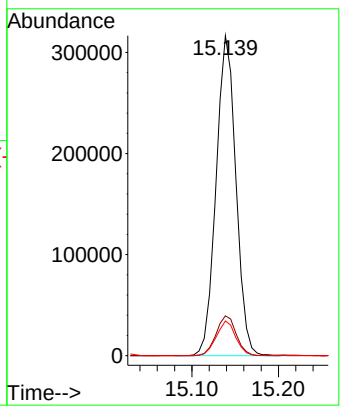


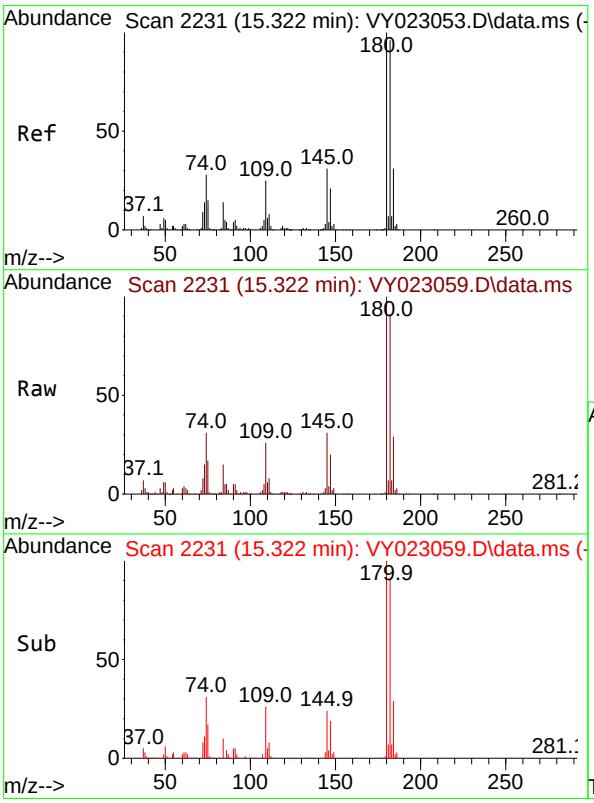
#95
Naphthalene
Concen: 47.413 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 502833

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.7	9.0	13.4

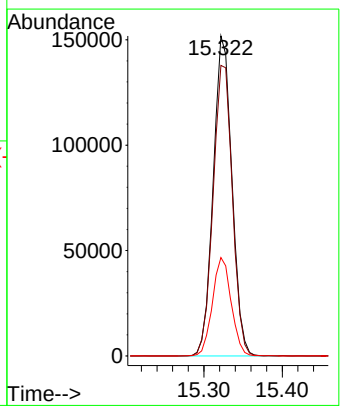




#96
1,2,3-Trichlorobenzene
Concen: 47.023 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:180 Resp: 252008

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.9	143.7
145	30.9	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Quant Time: Aug 14 01:20:39 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	478194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	775826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	675926	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	325106	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	229361	50.326	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.660%			
35) Dibromofluoromethane	7.628	113	229320	49.398	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.800%			
50) Toluene-d8	10.103	98	906626	49.992	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.980%			
62) 4-Bromofluorobenzene	12.401	95	279619	47.943	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	86360	22.125	ug/l	98
3) Chloromethane	2.068	50	149822	23.698	ug/l	99
4) Vinyl Chloride	2.202	62	184278	23.580	ug/l	99
5) Bromomethane	2.586	94	139698	23.936	ug/l	95
6) Chloroethane	2.726	64	120677	23.227	ug/l	100
7) Trichlorofluoromethane	3.049	101	213662	22.485	ug/l	98
8) Diethyl Ether	3.452	74	51671	20.553	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	101004	21.545	ug/l	100
10) Methyl Iodide	4.001	142	97379	19.249	ug/l	99
11) Tert butyl alcohol	4.854	59	27933	89.450	ug/l	99
12) 1,1-Dichloroethene	3.781	96	98921	21.467	ug/l	97
13) Acrolein	3.647	56	42693	93.352	ug/l	95
14) Allyl chloride	4.372	41	143464	21.158	ug/l	99
15) Acrylonitrile	5.049	53	100833	98.653	ug/l	98
16) Acetone	3.866	43	99920	101.199	ug/l	96
17) Carbon Disulfide	4.098	76	326606	21.737	ug/l	98
18) Methyl Acetate	4.379	43	55687	18.953	ug/l	100
19) Methyl tert-butyl Ether	5.110	73	237530	19.892	ug/l	100
20) Methylene Chloride	4.610	84	118853	21.623	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	109941	21.230	ug/l	95
22) Diisopropyl ether	6.012	45	313978	21.310	ug/l	96
23) Vinyl Acetate	5.951	43	814993	100.034	ug/l	98
24) 1,1-Dichloroethane	5.909	63	192114	21.326	ug/l	99
25) 2-Butanone	6.890	43	130779	97.389	ug/l	96
26) 2,2-Dichloropropane	6.878	77	169264	21.776	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	126291	21.095	ug/l	99
28) Bromochloromethane	7.238	49	74346	20.802	ug/l	99
29) Tetrahydrofuran	7.262	42	79003	94.913	ug/l	97
30) Chloroform	7.415	83	200297	21.559	ug/l	95
31) Cyclohexane	7.695	56	173959	20.493	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	176542	21.416	ug/l	98
36) 1,1-Dichloropropene	7.829	75	142922	20.716	ug/l	98
37) Ethyl Acetate	6.982	43	55643	19.200	ug/l	99
38) Carbon Tetrachloride	7.811	117	154916	20.674	ug/l	100
39) Methylcyclohexane	9.103	83	184052	20.258	ug/l	99
40) Benzene	8.073	78	446973	21.020	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Quant Time: Aug 14 01:20:39 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	7.213	41	27413	16.390 ug/l #	88
42) 1,2-Dichloroethane	8.152	62	114299	20.668 ug/l	98
43) Isopropyl Acetate	8.195	43	108405	18.507 ug/l	98
44) Trichloroethene	8.859	130	113487	20.652 ug/l	94
45) 1,2-Dichloropropane	9.134	63	103105	21.073 ug/l	97
46) Dibromomethane	9.225	93	57310	20.408 ug/l	98
47) Bromodichloromethane	9.420	83	151024	20.900 ug/l	100
48) Methyl methacrylate	9.219	41	51033	18.207 ug/l	95
49) 1,4-Dioxane	9.225	88	13354	405.561 ug/l	99
51) 4-Methyl-2-Pentanone	9.993	43	281551	93.183 ug/l	99
52) Toluene	10.164	92	280495	20.769 ug/l	100
53) t-1,3-Dichloropropene	10.390	75	128144	19.584 ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	157108	20.305 ug/l	98
55) 1,1,2-Trichloroethane	10.566	97	73477	19.554 ug/l	97
56) Ethyl methacrylate	10.438	69	88174	18.338 ug/l	97
57) 1,3-Dichloropropane	10.713	76	129029	20.247 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.707	63	214069	94.383 ug/l	100
59) 2-Hexanone	10.755	43	191315	92.987 ug/l	97
60) Dibromochloromethane	10.908	129	97950	19.755 ug/l	99
61) 1,2-Dibromoethane	11.011	107	69337	19.632 ug/l	99
64) Tetrachloroethene	10.640	164	134131	22.223 ug/l	98
65) Chlorobenzene	11.438	112	297874	20.431 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.511	131	101895	20.592 ug/l	99
67) Ethyl Benzene	11.511	91	512586	20.430 ug/l	99
68) m/p-Xylenes	11.627	106	399348	40.752 ug/l	98
69) o-Xylene	11.950	106	184155	20.065 ug/l	98
70) Styrene	11.963	104	302870	20.179 ug/l	99
71) Bromoform	12.127	173	55061	19.039 ug/l #	98
73) Isopropylbenzene	12.249	105	481276	20.975 ug/l	100
74) N-amyl acetate	12.066	43	94137	19.346 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	71870	18.344 ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	103385	32.950 ug/l #	100
77) Bromobenzene	12.529	156	111502	20.369 ug/l	98
78) n-propylbenzene	12.590	91	581635	21.291 ug/l	100
79) 2-Chlorotoluene	12.676	91	332511	21.244 ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	390462	21.055 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	25293	19.514 ug/l	98
82) 4-Chlorotoluene	12.773	91	343845	21.176 ug/l	100
83) tert-Butylbenzene	12.993	119	344106	20.545 ug/l	100
84) 1,2,4-Trimethylbenzene	13.036	105	390034	21.128 ug/l	99
85) sec-Butylbenzene	13.170	105	515732	20.962 ug/l	100
86) p-Isopropyltoluene	13.285	119	426905	20.904 ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	220435	20.420 ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	219736	20.520 ug/l	99
89) n-Butylbenzene	13.615	91	390572	20.823 ug/l	98
90) Hexachloroethane	13.877	117	89456	21.398 ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	191827	20.262 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	11881	19.477 ug/l	93
93) 1,2,4-Trichlorobenzene	14.913	180	105900	18.915 ug/l	98
94) Hexachlorobutadiene	15.017	225	66091	20.089 ug/l	98
95) Naphthalene	15.139	128	162104	16.980 ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	89070	18.463 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Quant Time: Aug 14 01:20:39 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)

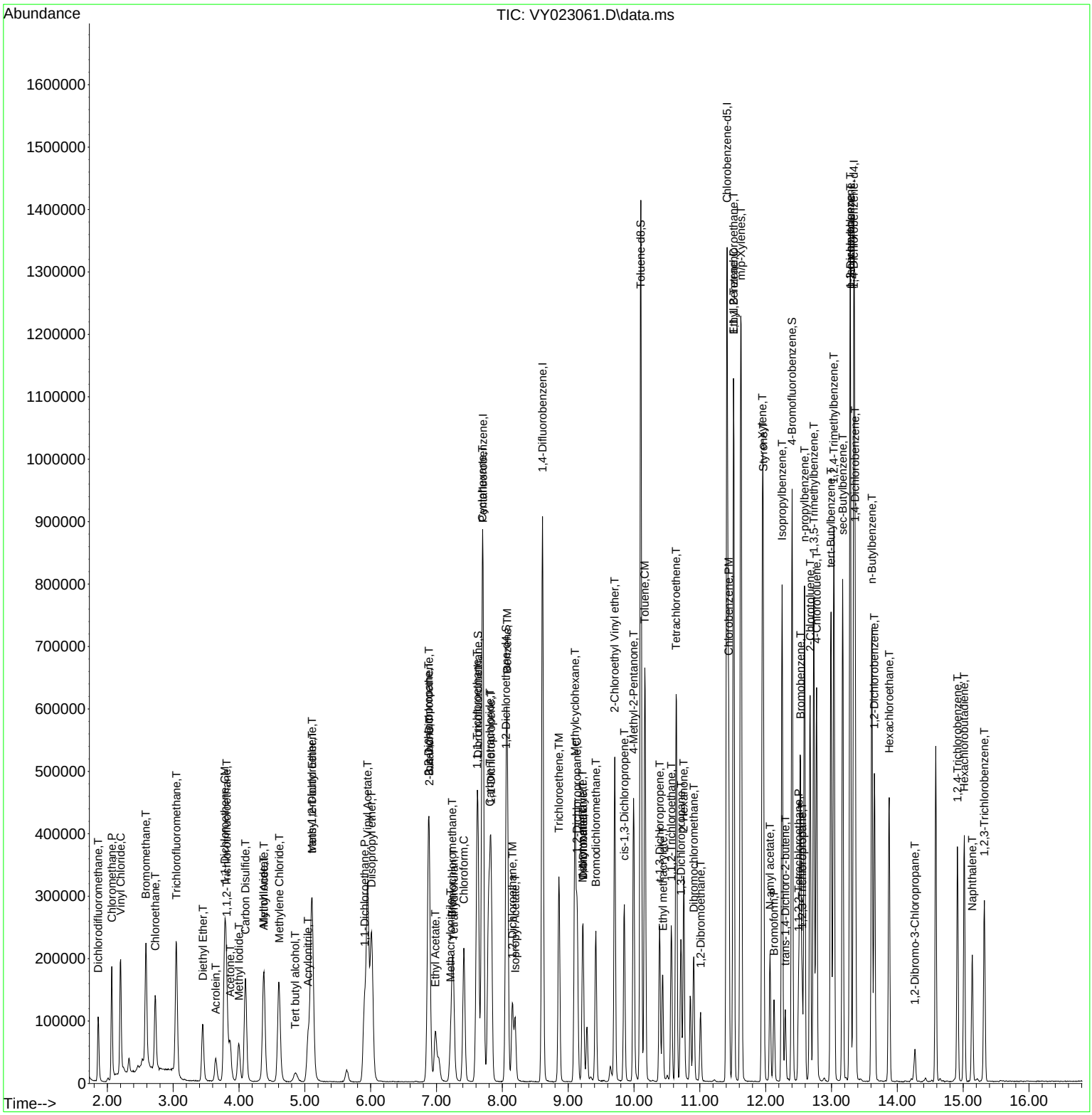
(#) = qualifier out of range (m) = manual integration (+) = signals summed

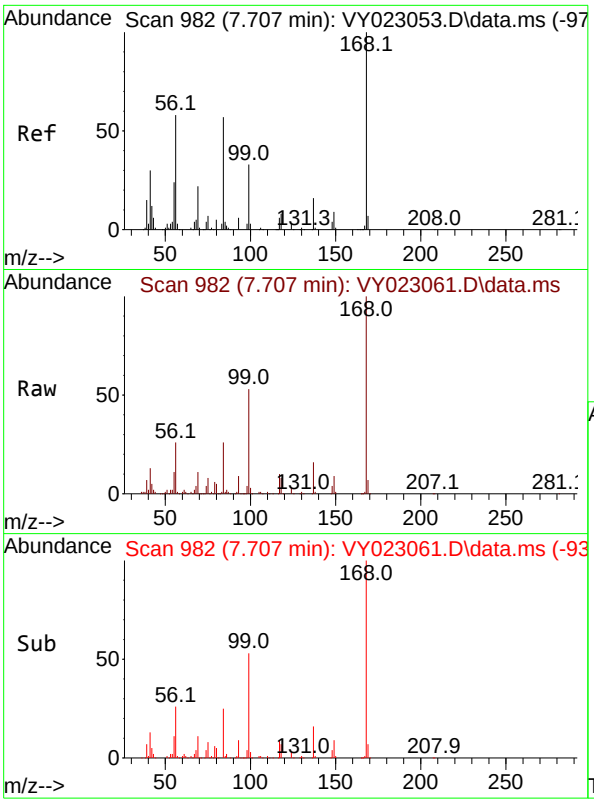
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Quant Time: Aug 14 01:20:39 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



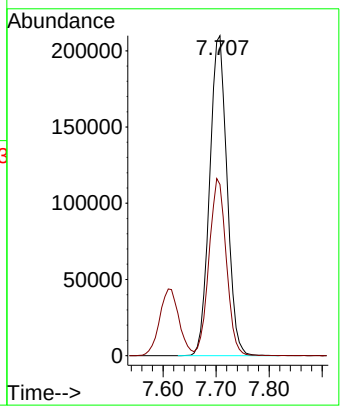


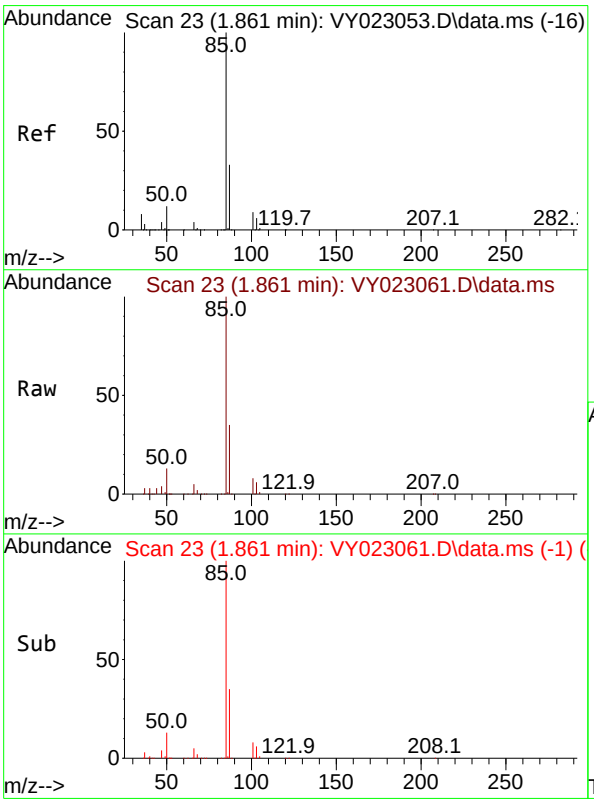
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:168 Resp: 478194

Ion	Ratio	Lower	Upper
168	100		
99	53.4	42.8	64.2

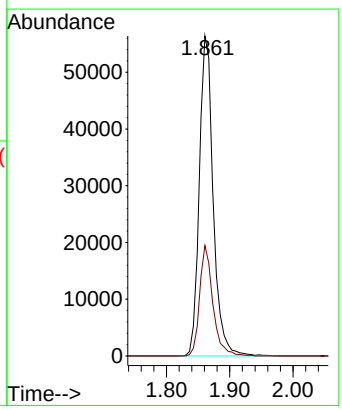


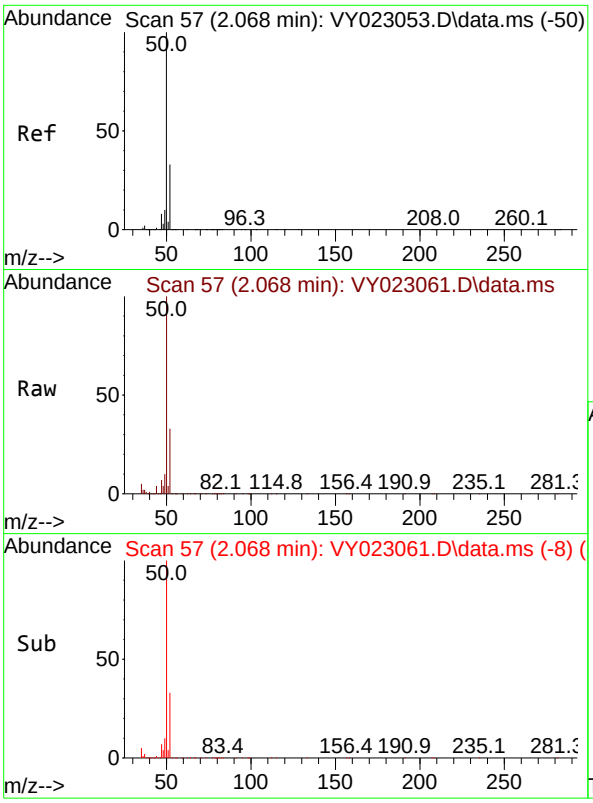


#2
Dichlorodifluoromethane
Concen: 22.125 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 85 Resp: 86360

Ion	Ratio	Lower	Upper
85	100		
87	34.5	16.6	49.8



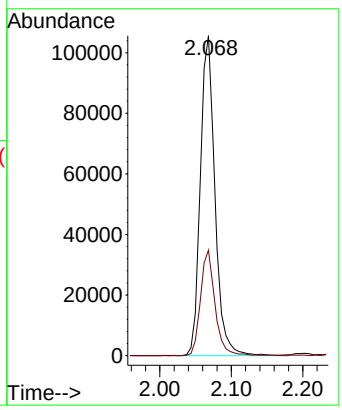


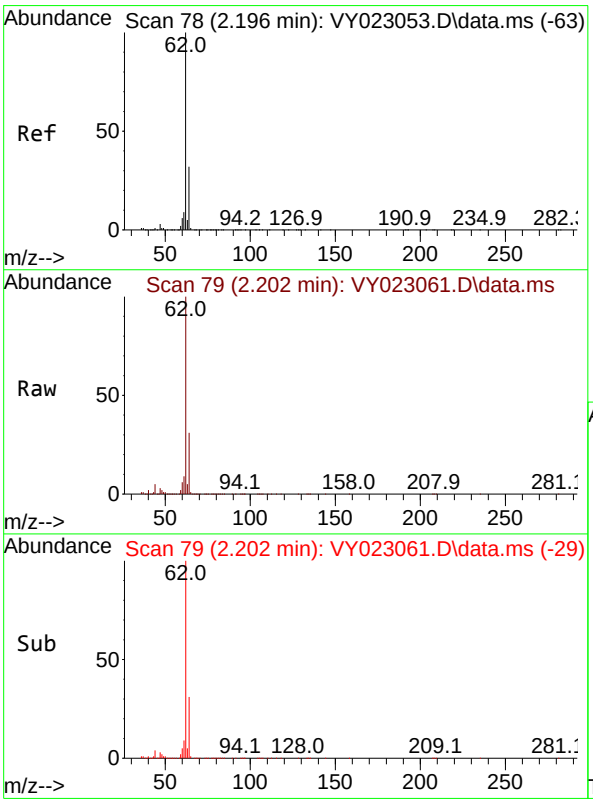
#3
Chloromethane
Concen: 23.698 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 50 Resp: 149822

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1

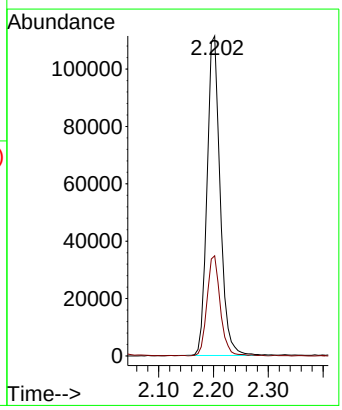


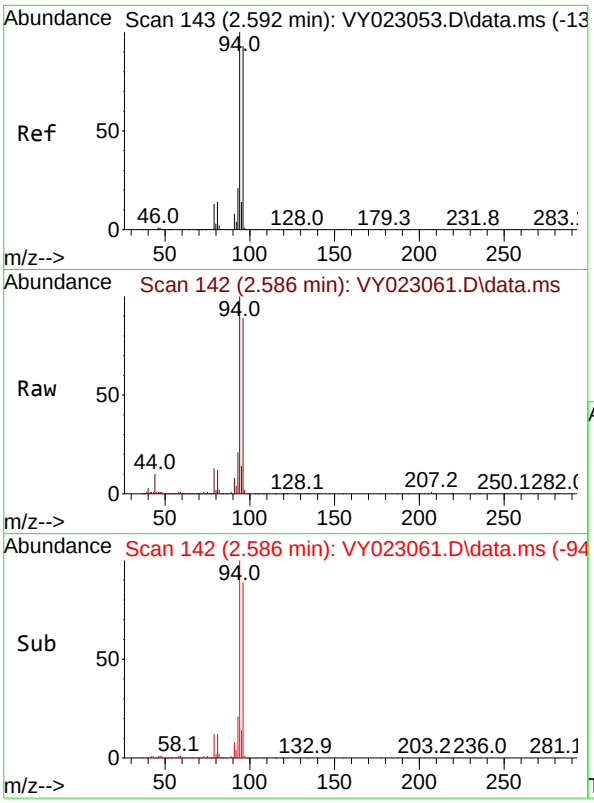


#4
Vinyl Chloride
Concen: 23.580 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 184278

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.4	38.0



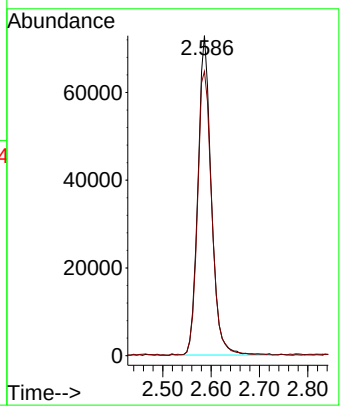


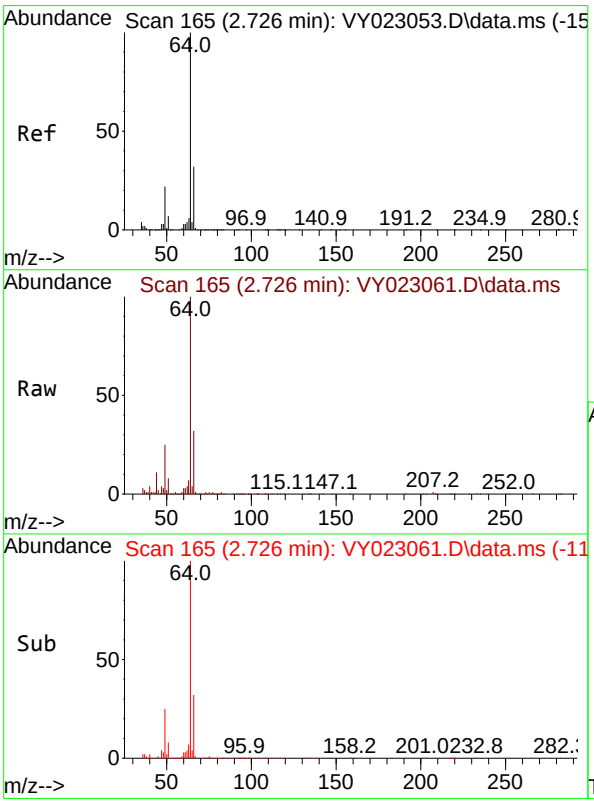
#5
Bromomethane
Concen: 23.936 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 94 Resp: 139698

Ion	Ratio	Lower	Upper
94	100		
96	88.8	74.6	112.0

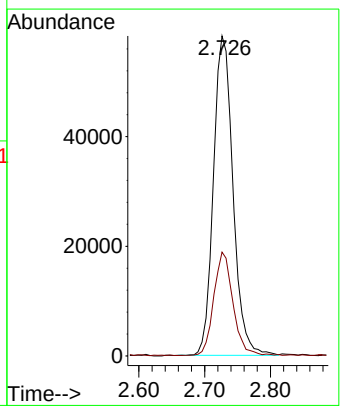


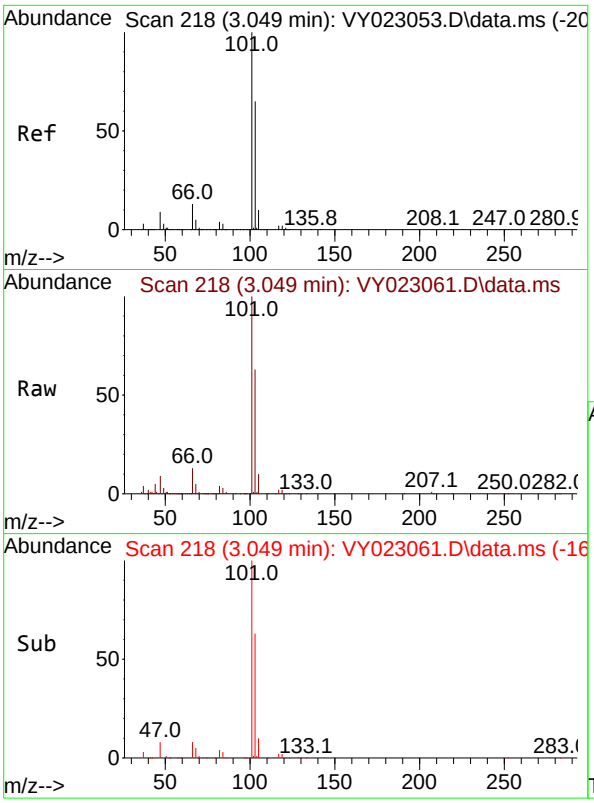


#6
Chloroethane
Concen: 23.227 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 64 Resp: 120677

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.8	38.6



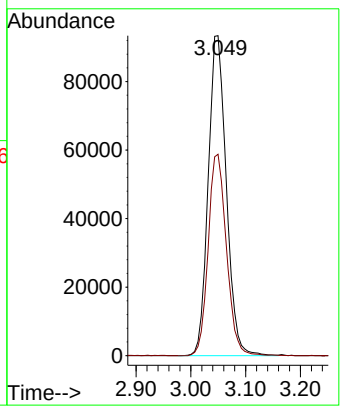


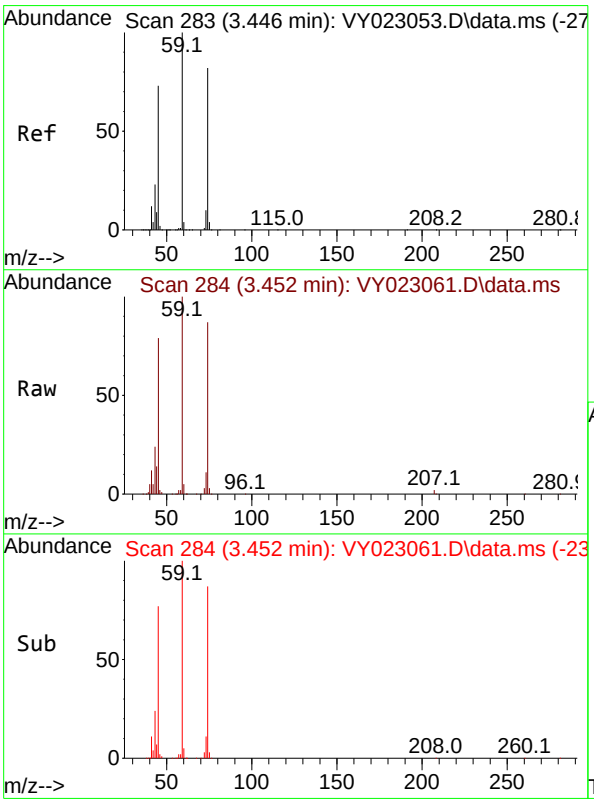
#7
Trichlorofluoromethane
Concen: 22.485 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:101 Resp: 213662

Ion	Ratio	Lower	Upper
101	100		
103	63.0	51.9	77.9

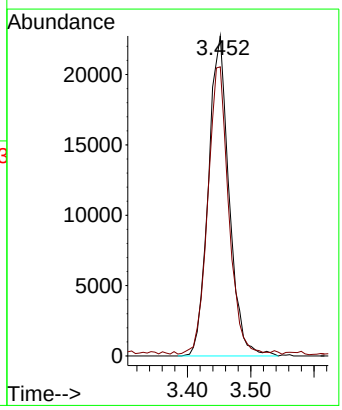


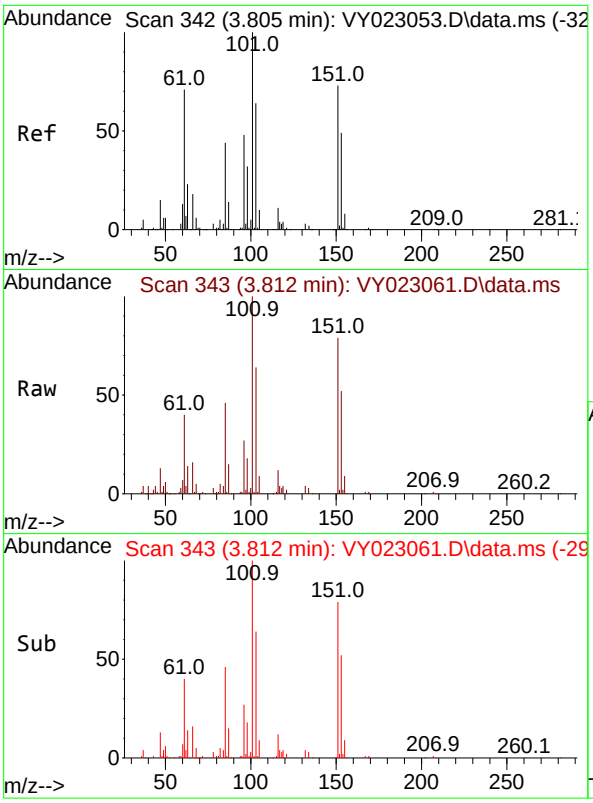


#8
Diethyl Ether
Concen: 20.553 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 74 Resp: 51671

Ion	Ratio	Lower	Upper
74	100		
45	90.4	44.4	133.2



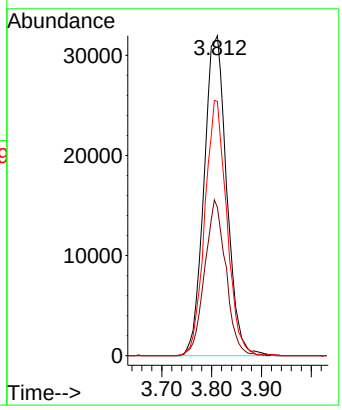


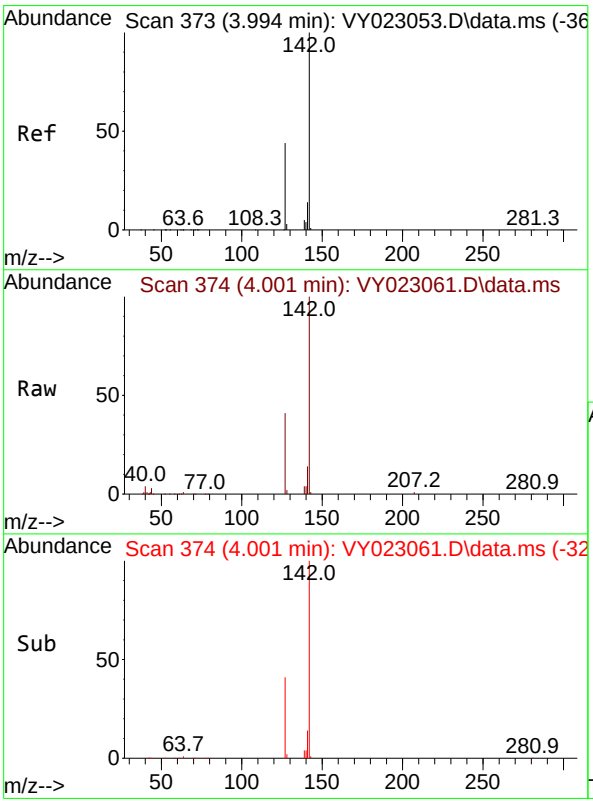
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.545 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:101 Resp: 101004

Ion	Ratio	Lower	Upper
101	100		
85	45.7	36.3	54.5
151	77.2	61.5	92.3

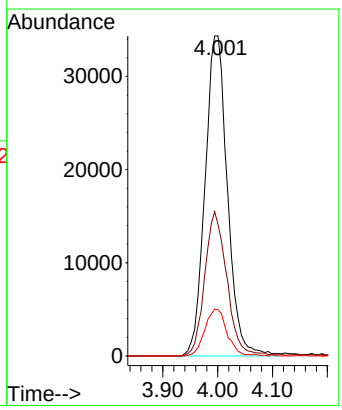


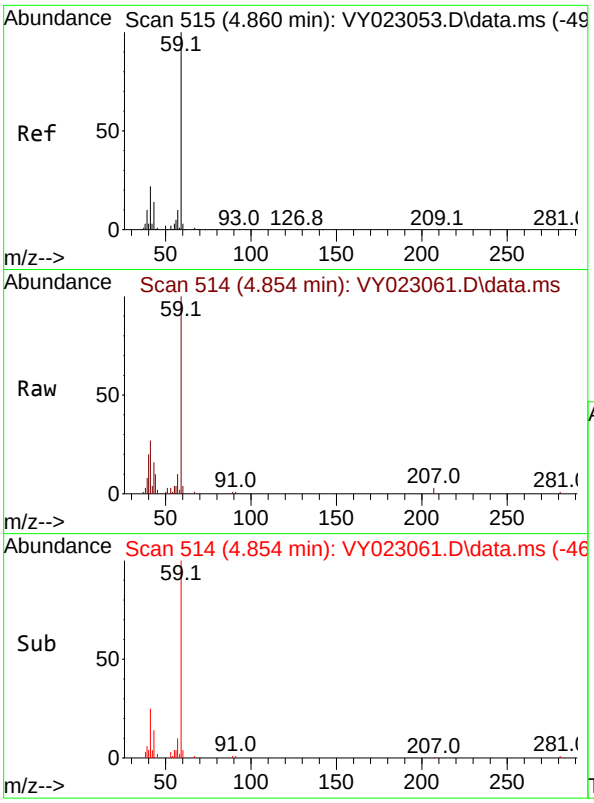


#10
Methyl Iodide
Concen: 19.249 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:142 Resp: 97379

Ion	Ratio	Lower	Upper
142	100		
127	44.6	34.9	52.3
141	14.5	11.3	16.9



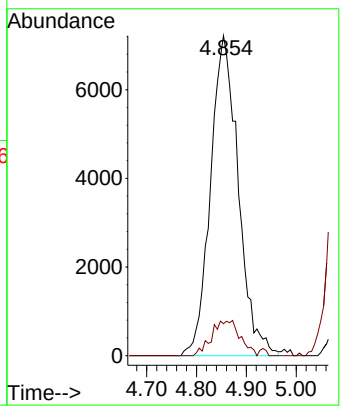


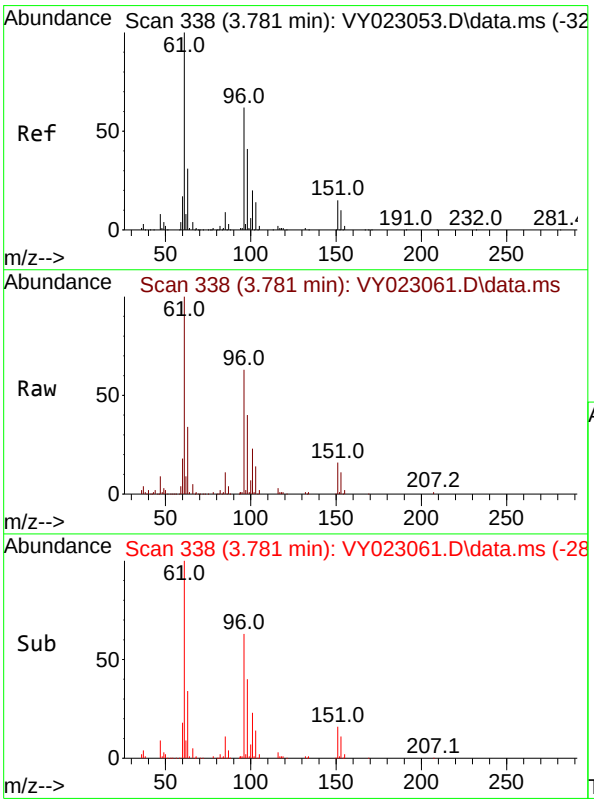
#11
Tert butyl alcohol
Concen: 89.450 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 59 Resp: 27933

Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.6	13.0

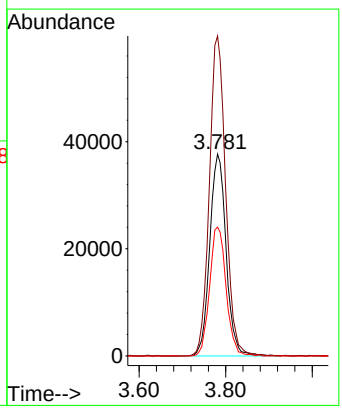


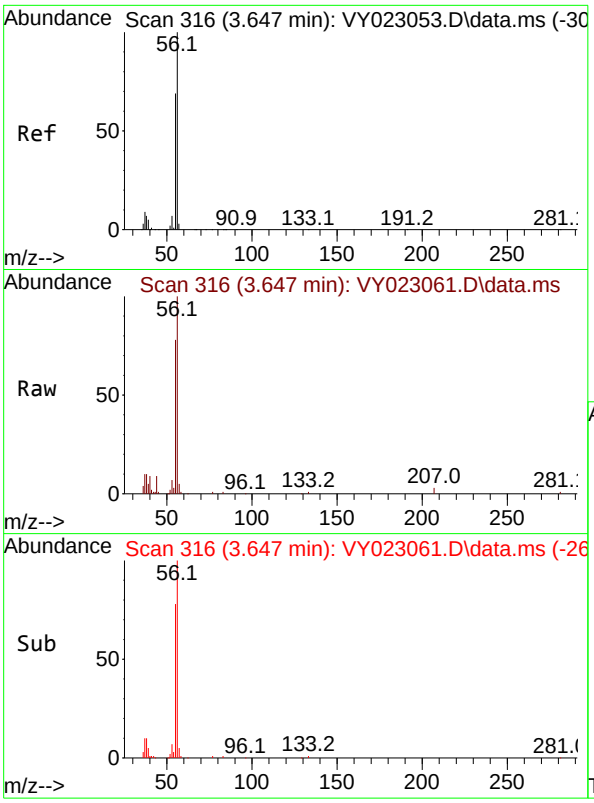


#12
1,1-Dichloroethene
Concen: 21.467 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 98921

Ion	Ratio	Lower	Upper
96	100		
61	158.4	129.4	194.2
98	63.8	52.8	79.2



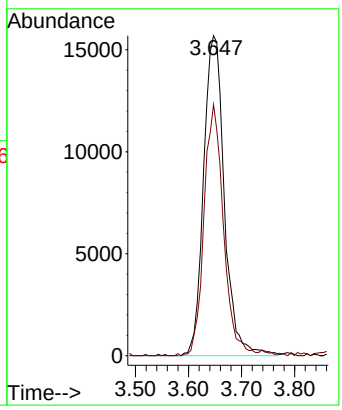


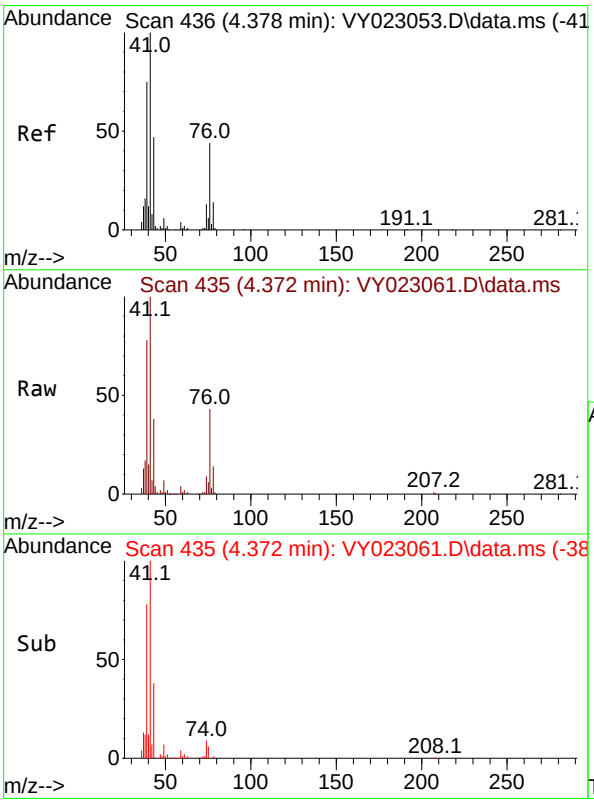
#13
Acrolein
Concen: 93.352 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 56 Resp: 42693

Ion	Ratio	Lower	Upper
56	100		
55	73.3	55.2	82.8

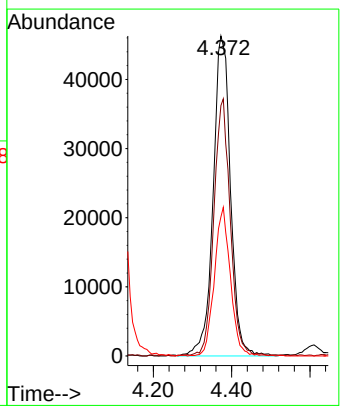


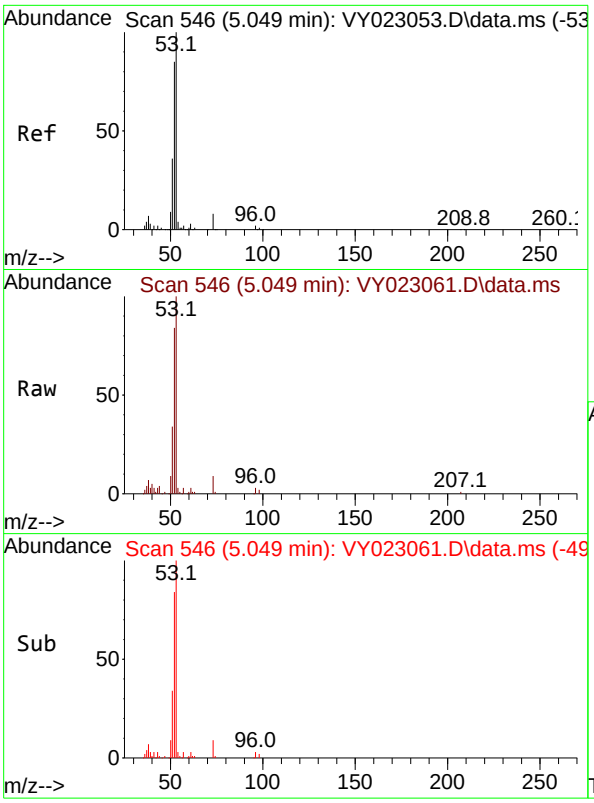


#14
Allyl chloride
Concen: 21.158 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 143464

Ion	Ratio	Lower	Upper
41	100		
39	75.4	59.8	89.6
76	42.6	33.7	50.5



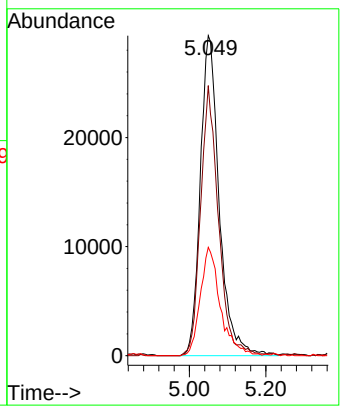


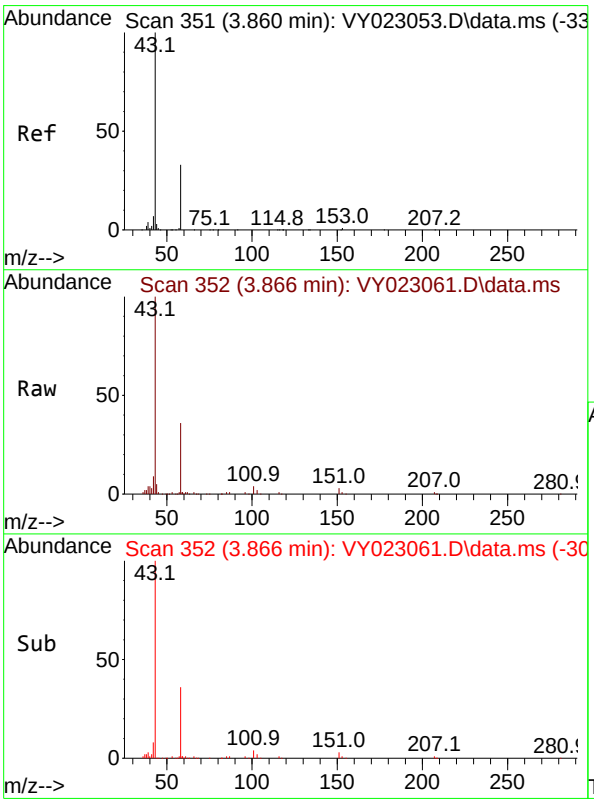
#15
Acrylonitrile
Concen: 98.653 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 53 Resp: 100833

Ion	Ratio	Lower	Upper
53	100		
52	79.6	65.3	97.9
51	35.9	29.5	44.3

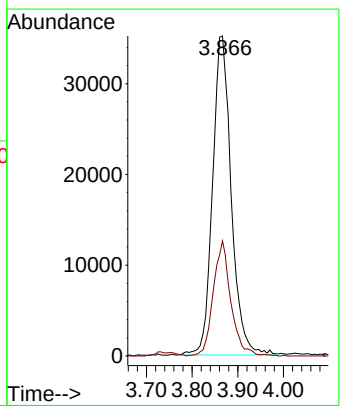


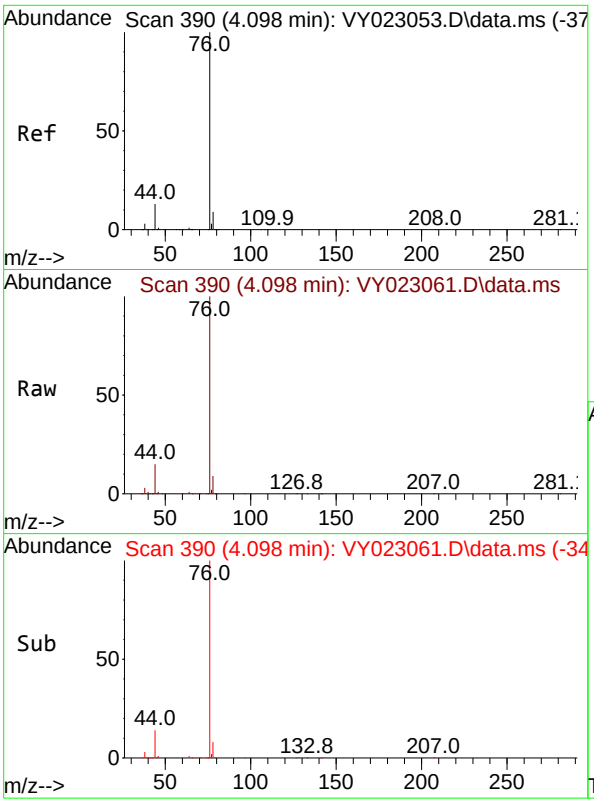


#16
Acetone
Concen: 101.199 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 99920

Ion	Ratio	Lower	Upper
43	100		
58	36.1	27.1	40.7



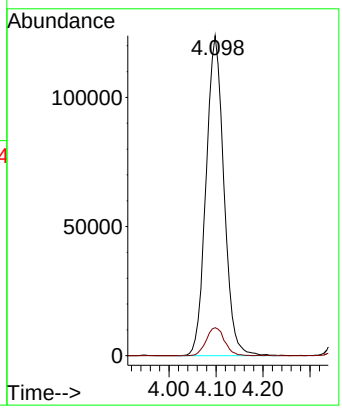


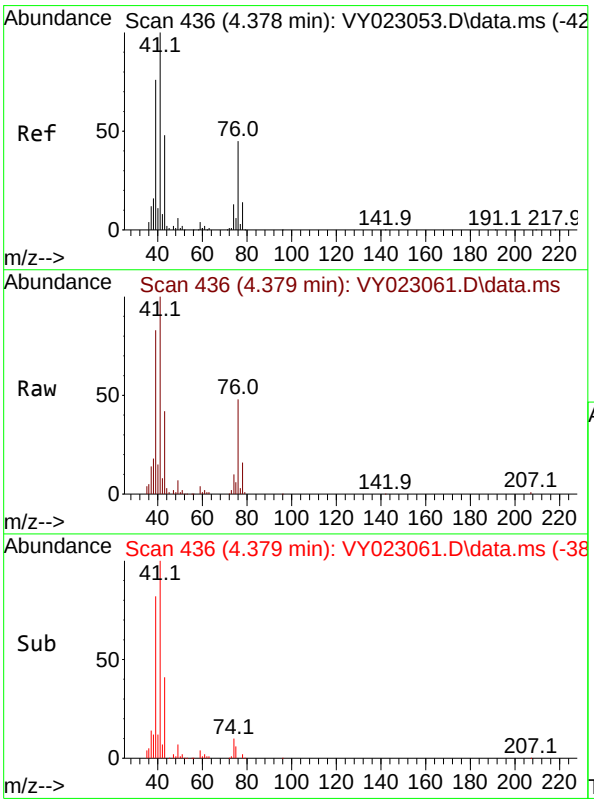
#17
Carbon Disulfide
Concen: 21.737 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 76 Resp: 326606

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.2

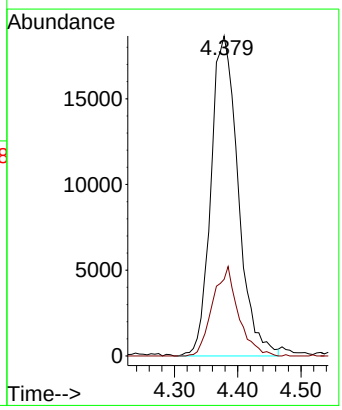


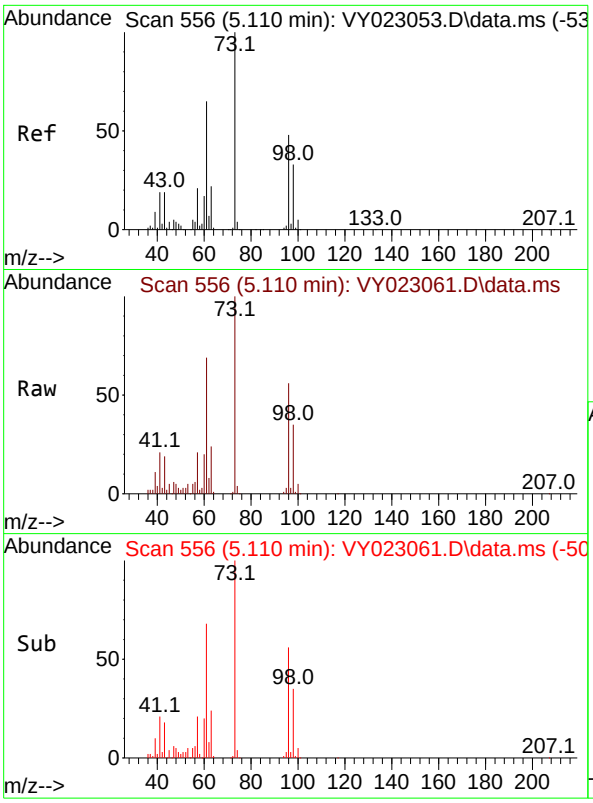


#18
Methyl Acetate
Concen: 18.953 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 55687

Ion	Ratio	Lower	Upper
43	100		
74	26.3	21.2	31.8



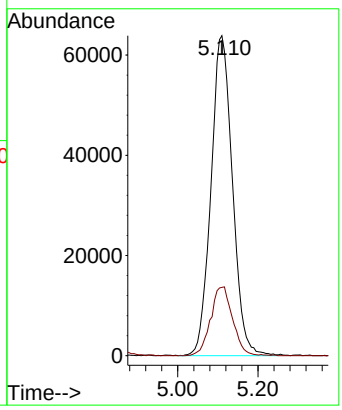


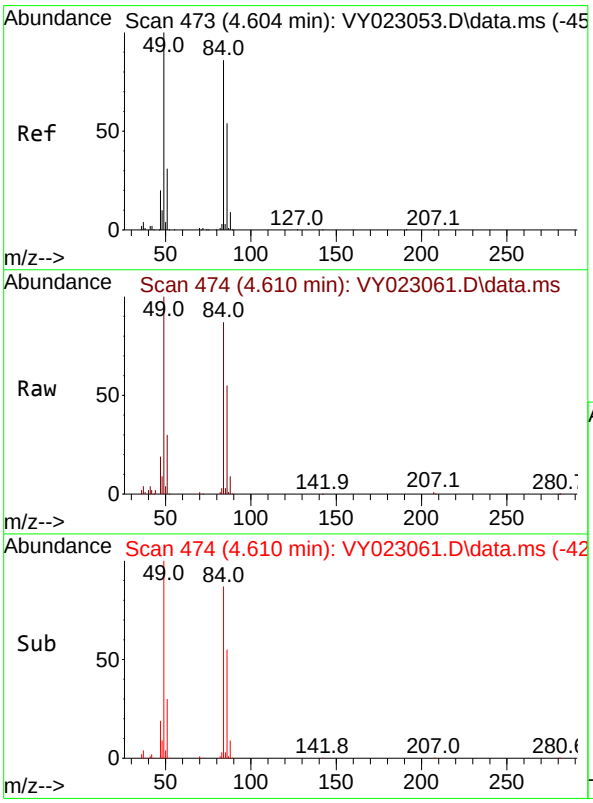
#19
Methyl tert-butyl Ether
Concen: 19.892 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 73 Resp: 237530

Ion	Ratio	Lower	Upper
73	100		
57	21.4	17.1	25.7

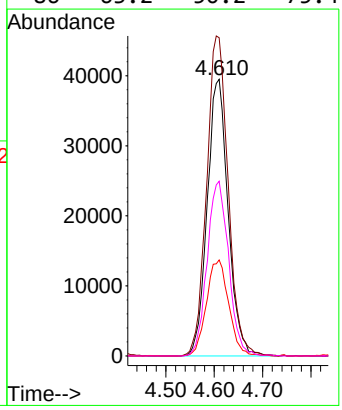


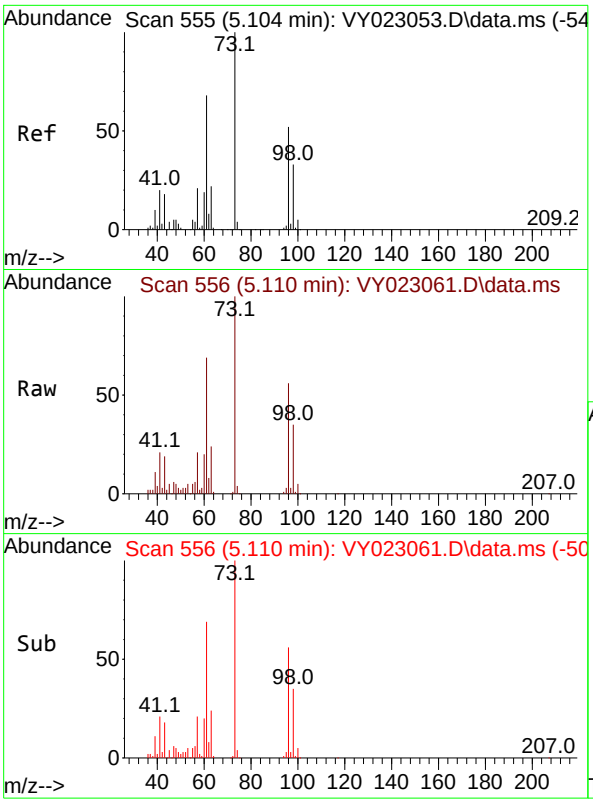


#20
Methylene Chloride
Concen: 21.623 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 84 Resp: 118853

Ion	Ratio	Lower	Upper
84	100		
49	115.1	93.0	139.6
51	34.7	29.0	43.4
86	63.2	50.2	75.4



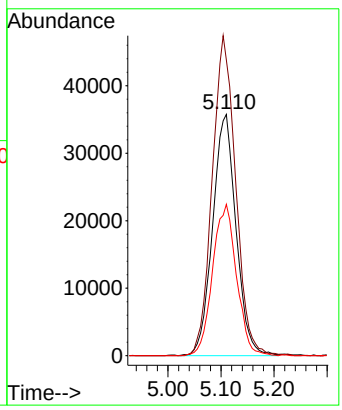


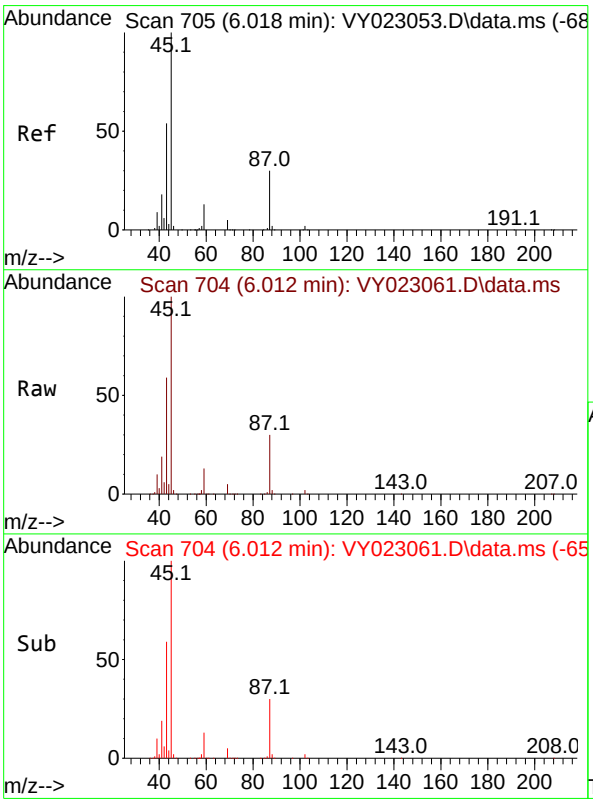
#21
trans-1,2-Dichloroethene
Concen: 21.230 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 96 Resp: 109941

Ion	Ratio	Lower	Upper
96	100		
61	122.5	104.8	157.2
98	62.7	50.1	75.1

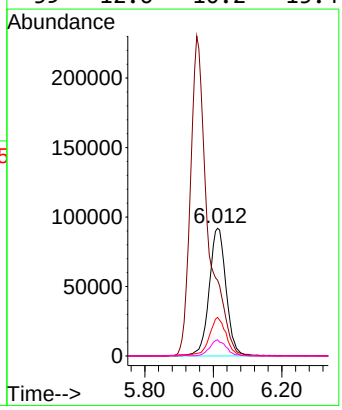


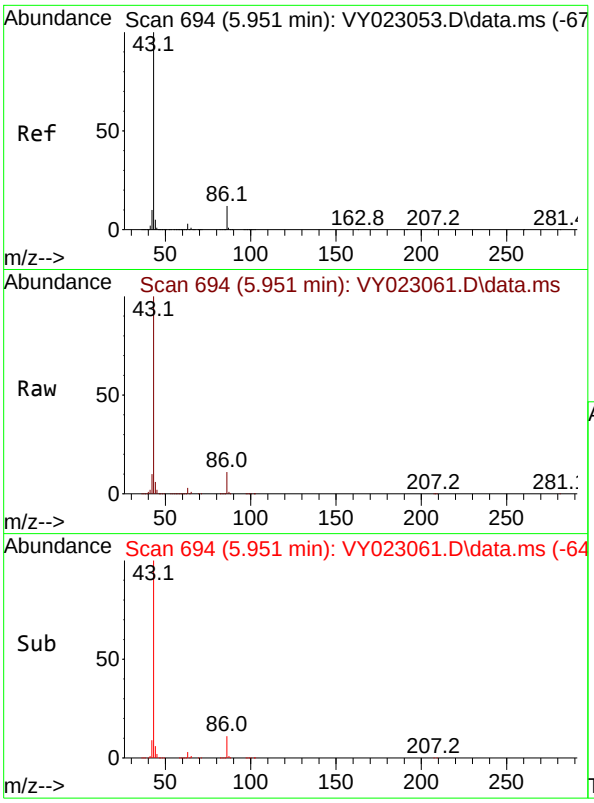


#22
Diisopropyl ether
Concen: 21.310 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 45 Resp: 313978

Ion	Ratio	Lower	Upper
45	100		
43	59.0	43.4	65.0
87	30.2	24.4	36.6
59	12.6	10.2	15.4



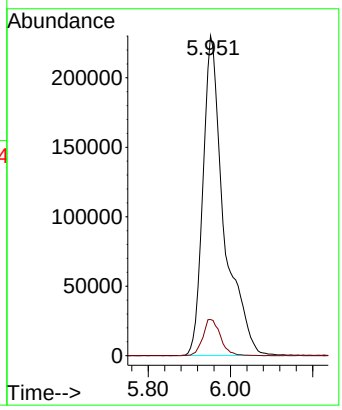


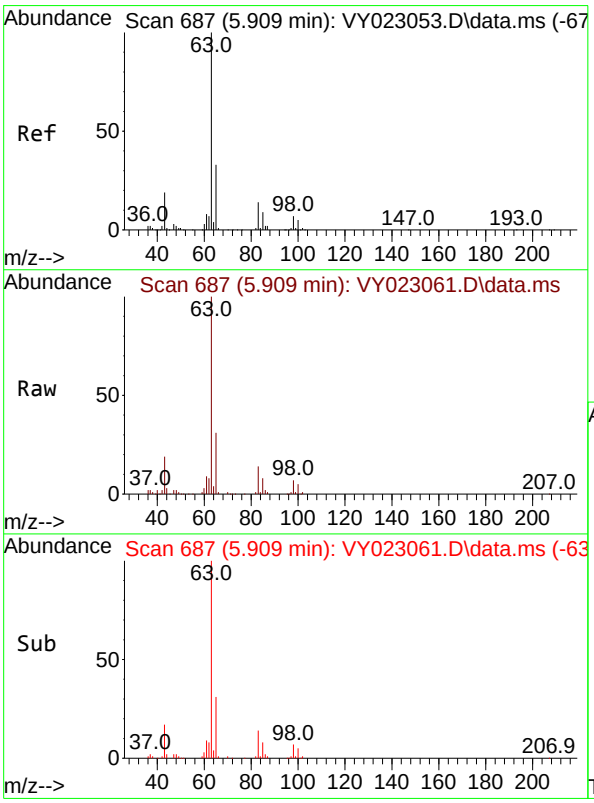
#23
Vinyl Acetate
Concen: 100.034 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 43 Resp: 814993

Ion	Ratio	Lower	Upper
43	100		
86	11.3	9.6	14.4

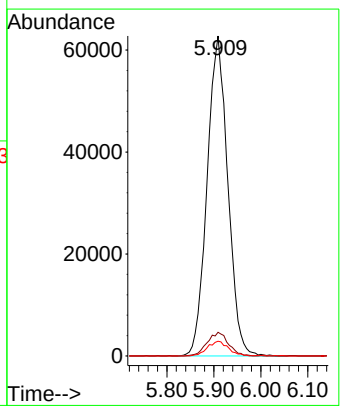


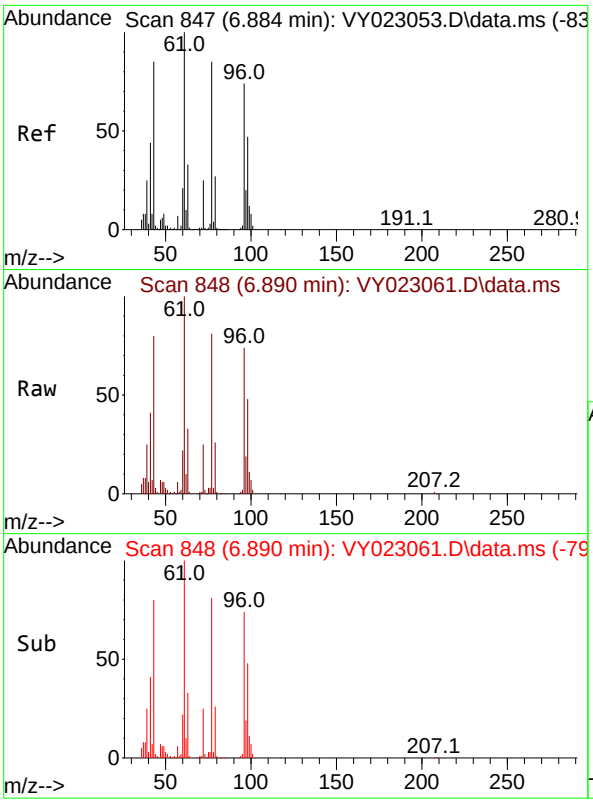


#24
1,1-Dichloroethane
Concen: 21.326 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 192114

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.6
100	4.6	2.4	7.1



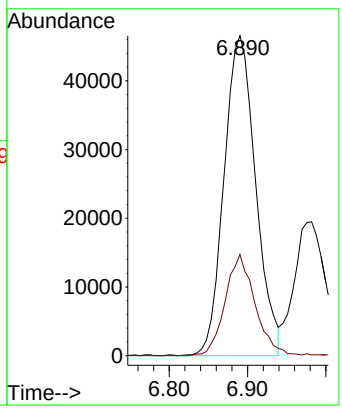


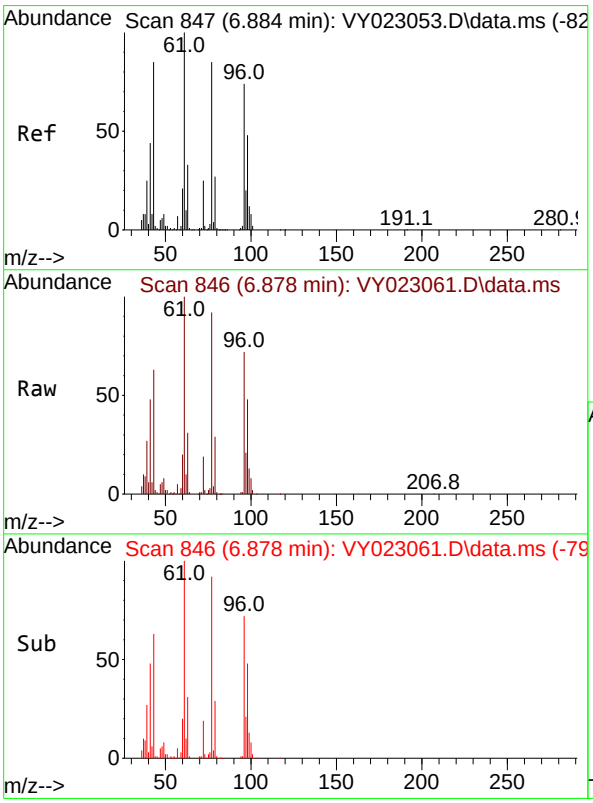
#25
2-Butanone
Concen: 97.389 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 43 Resp: 130779

Ion	Ratio	Lower	Upper
43	100		
72	31.6	23.5	35.3

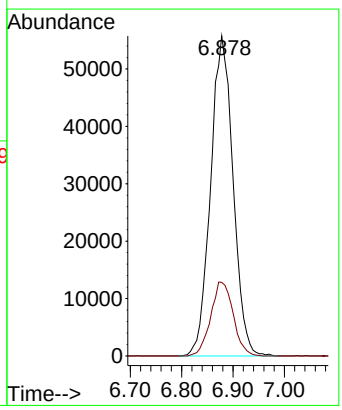


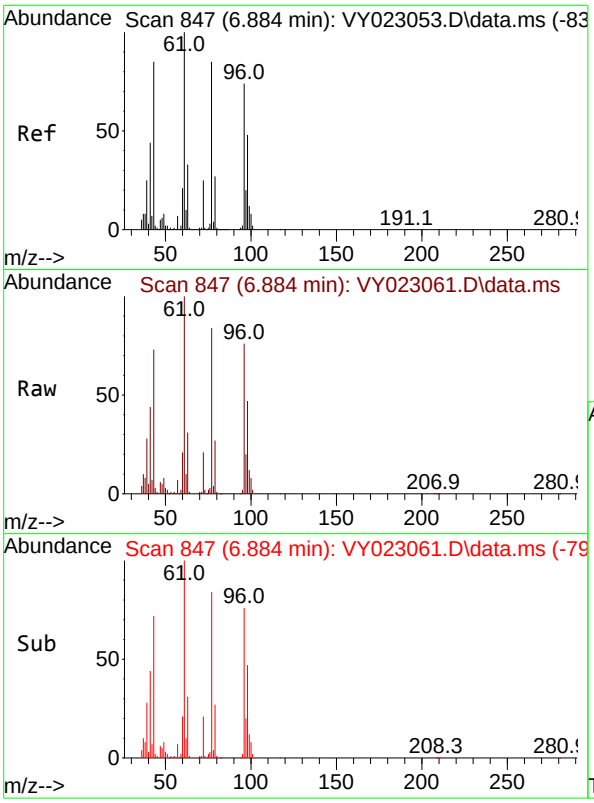


#26
2,2-Dichloropropane
Concen: 21.776 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 77 Resp: 169264

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.8



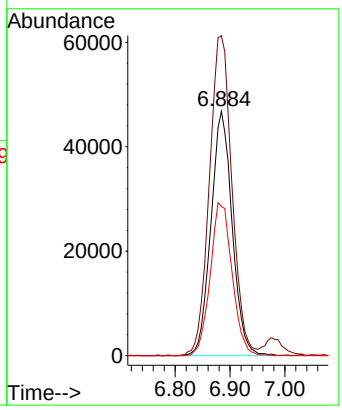


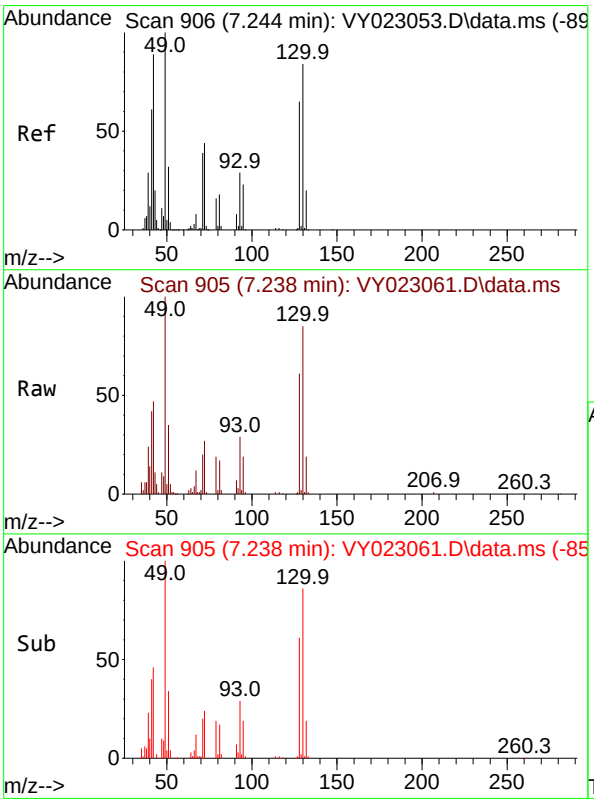
#27
cis-1,2-Dichloroethene
Concen: 21.095 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 96 Resp: 126291

Ion	Ratio	Lower	Upper
96	100		
61	138.9	0.0	278.6
98	64.3	0.0	130.4

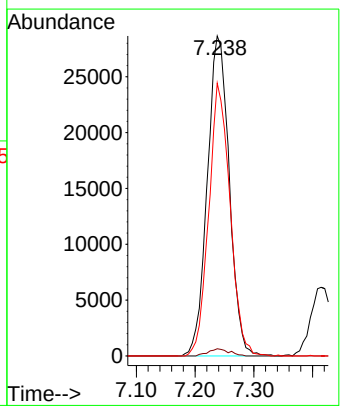


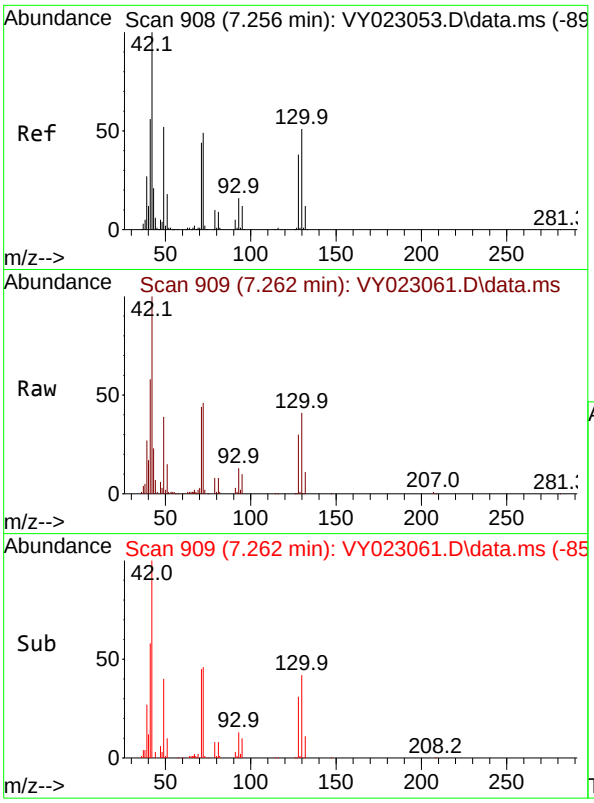


#28
Bromochloromethane
Concen: 20.802 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 49 Resp: 74346

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.5	66.4	99.6



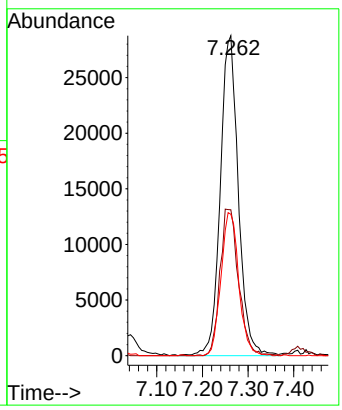


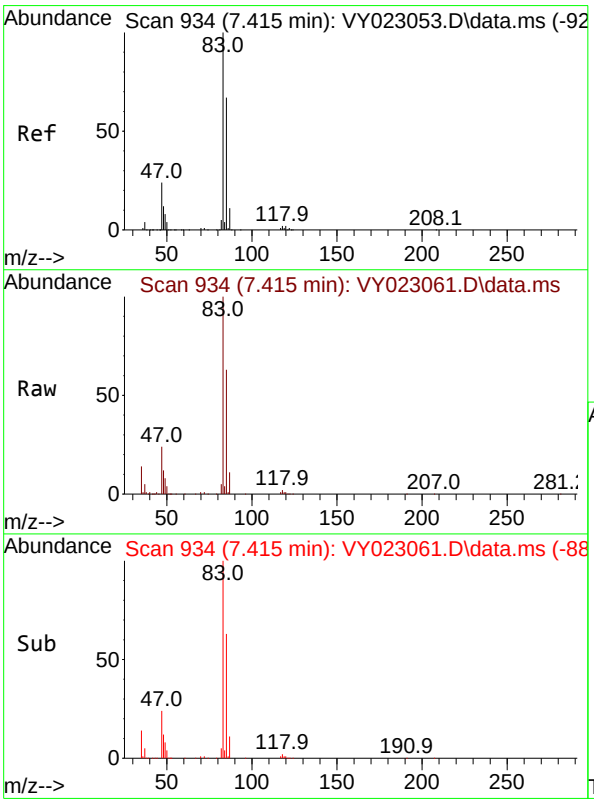
#29
Tetrahydrofuran
Concen: 94.913 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 42 Resp: 79003

Ion	Ratio	Lower	Upper
42	100		
72	47.0	39.4	59.2
71	44.1	36.5	54.7

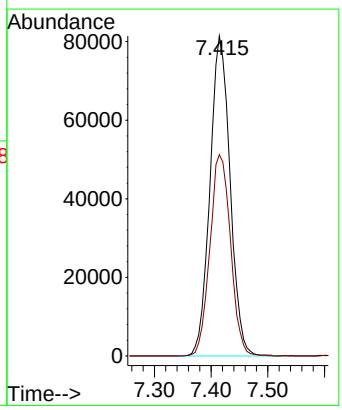


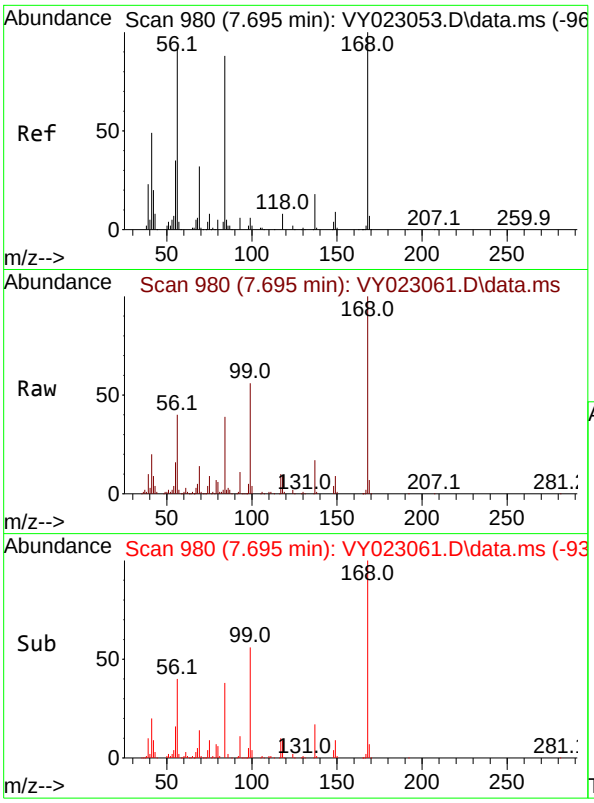


#30
Chloroform
Concen: 21.559 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 200297

Ion	Ratio	Lower	Upper
83	100		
85	62.9	53.8	80.8



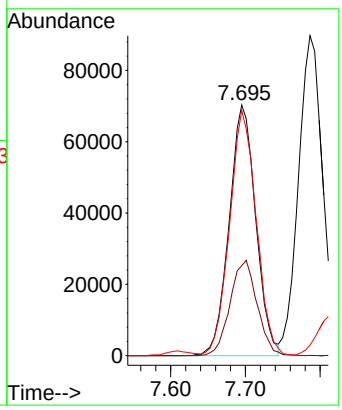


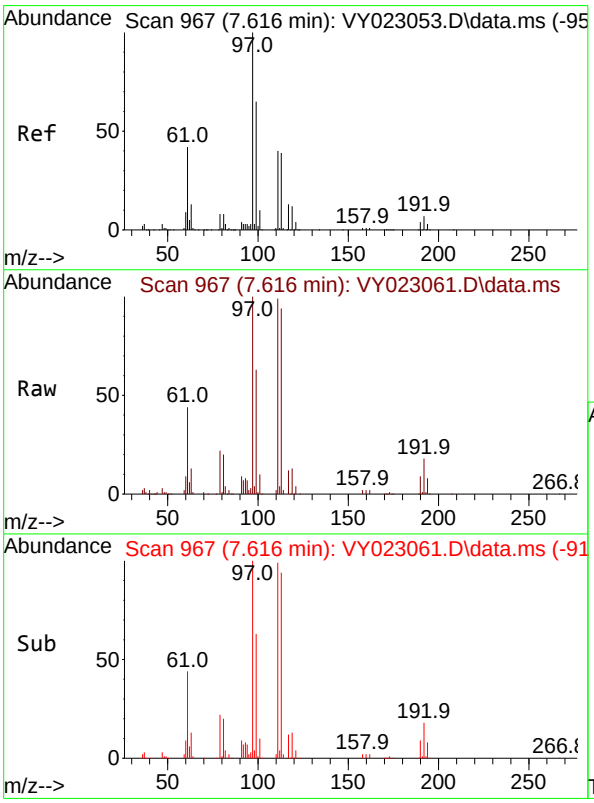
#31
Cyclohexane
Concen: 20.493 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 56 Resp: 173959

Ion	Ratio	Lower	Upper
56	100		
69	35.9	28.2	42.2
84	95.9	76.6	114.8

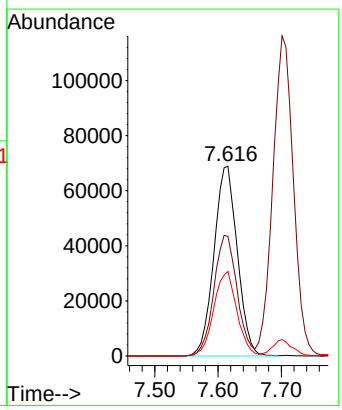


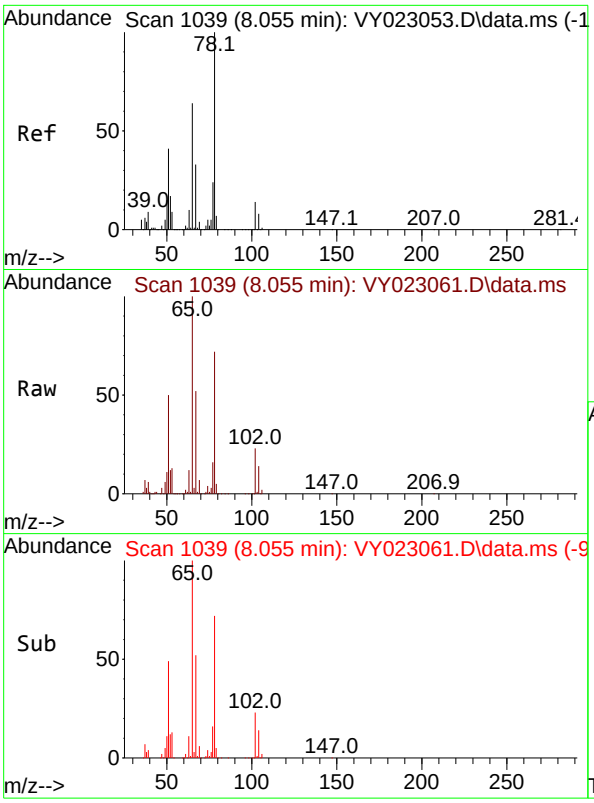


#32
1,1,1-Trichloroethane
Concen: 21.416 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 97 Resp: 176542

Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.6	77.4
61	44.0	34.2	51.2



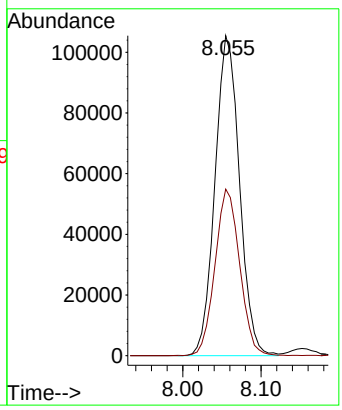


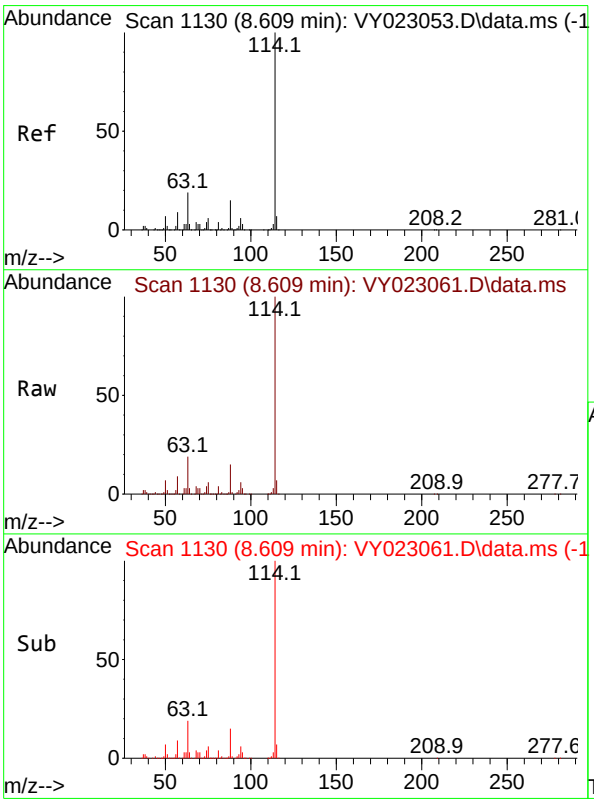
#33
1,2-Dichloroethane-d4
Concen: 50.326 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 65 Resp: 229361

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.8

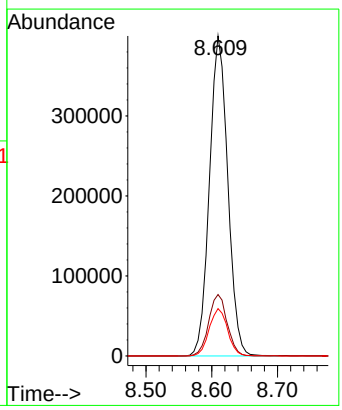


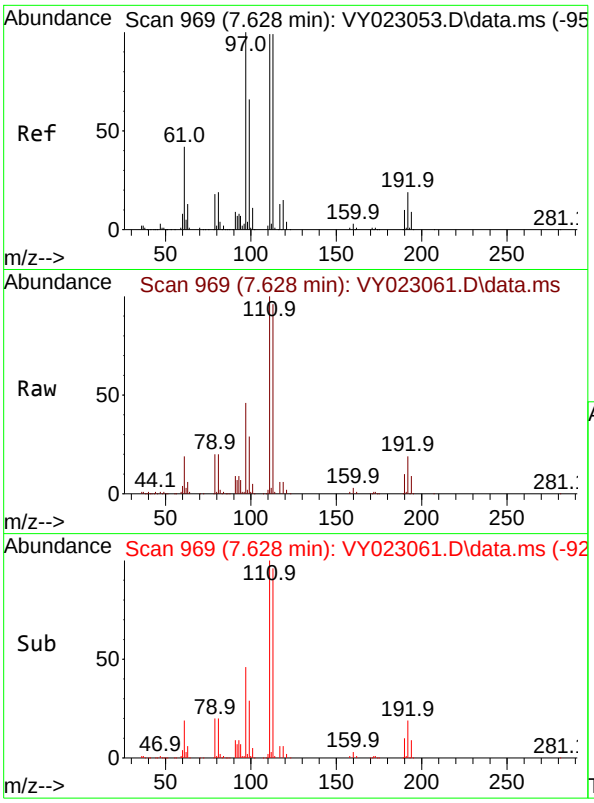


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:114 Resp: 775826

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	38.4
88	14.8	0.0	30.0



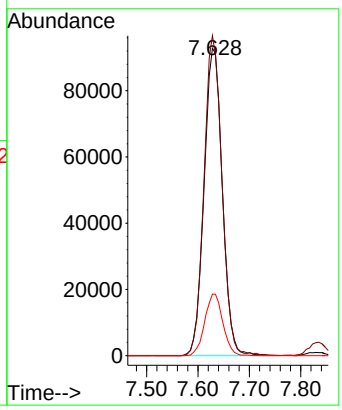


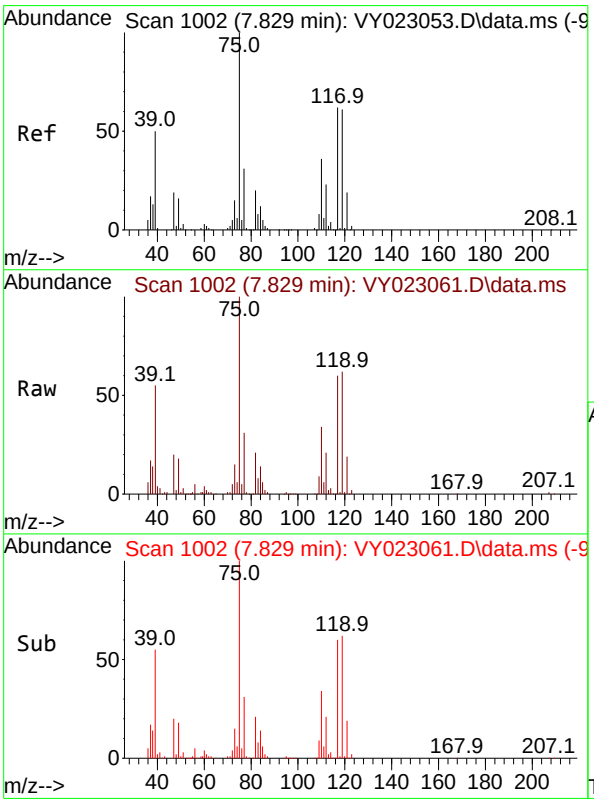
#35
Dibromofluoromethane
Concen: 49.398 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:113 Resp: 229320

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.1	121.7
192	19.9	16.2	24.4

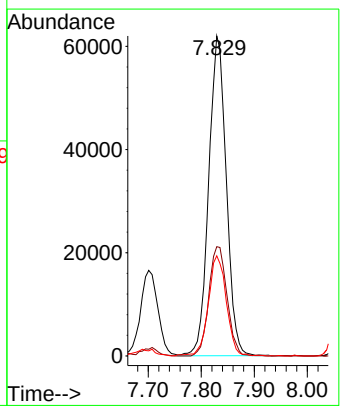


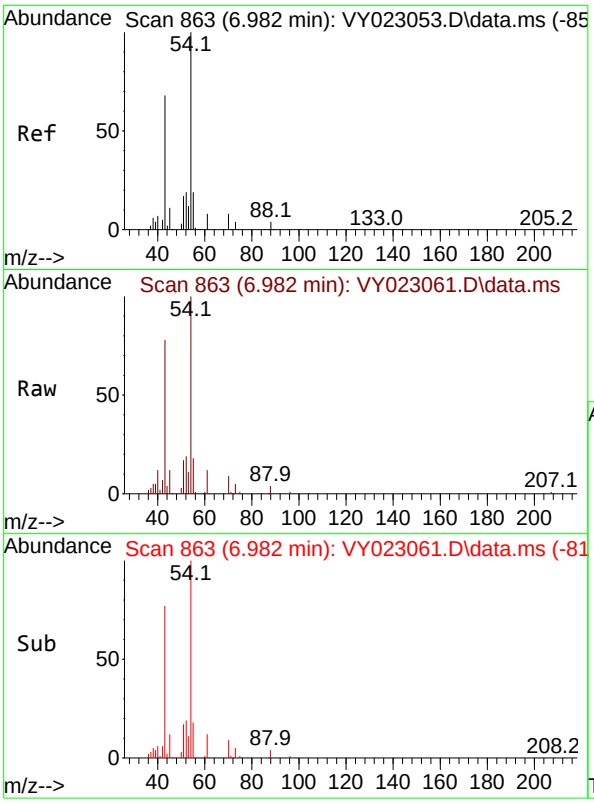


#36
1,1-Dichloropropene
Concen: 20.716 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 142922

Ion	Ratio	Lower	Upper
75	100		
110	35.3	18.1	54.4
77	32.0	24.6	37.0



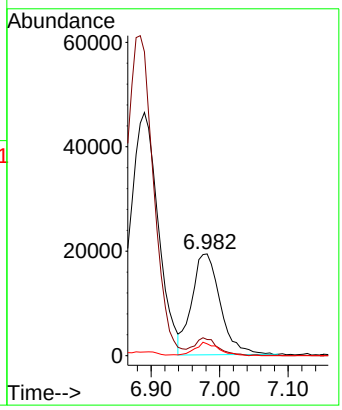


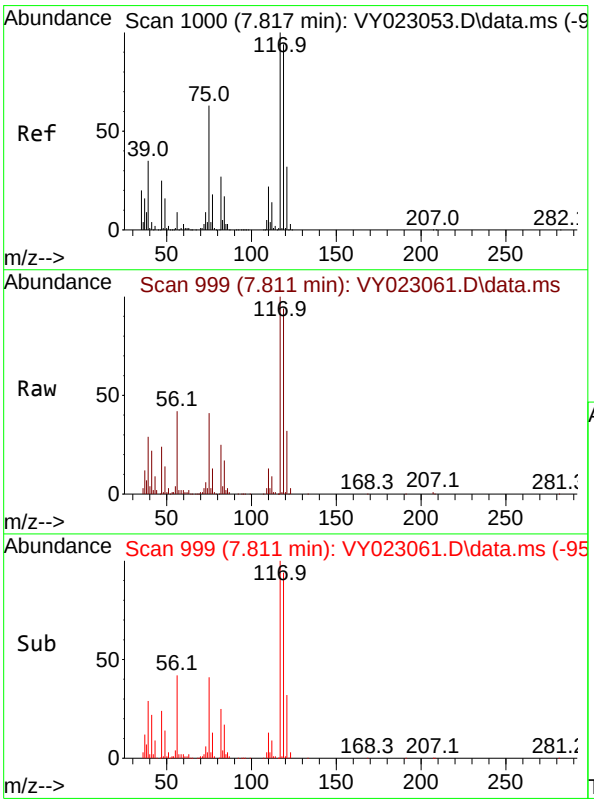
#37
Ethyl Acetate
Concen: 19.200 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 43 Resp: 55643

Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.9	17.9
70	11.3	8.8	13.2

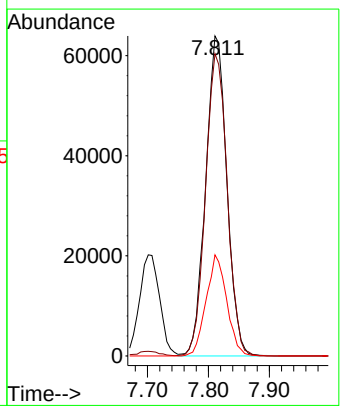


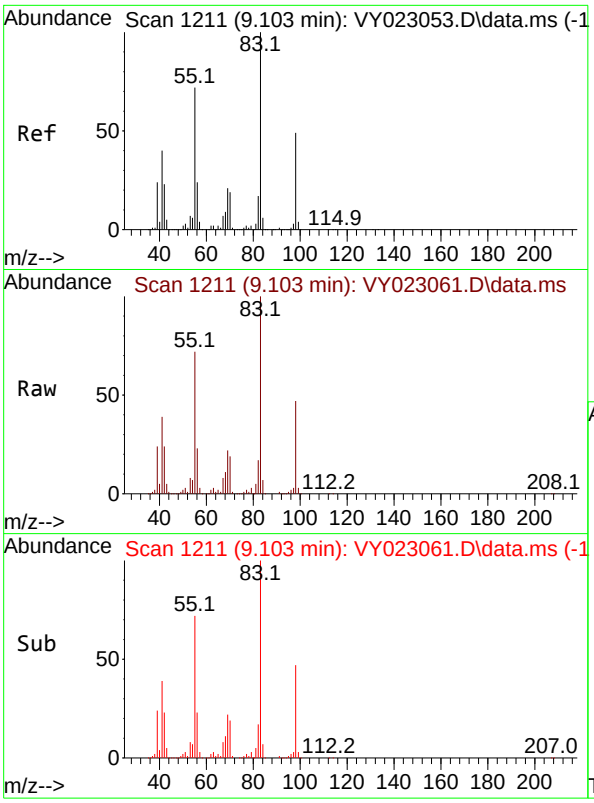


#38
Carbon Tetrachloride
Concen: 20.674 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 154916

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	31.6	25.8	38.8



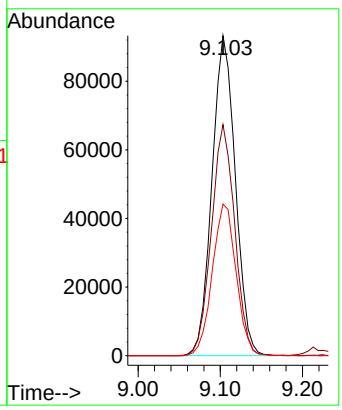


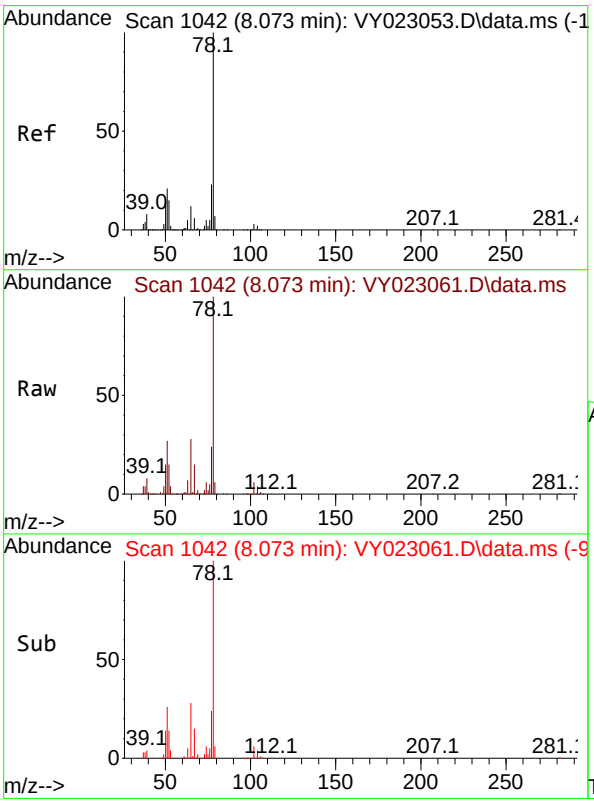
#39
Methylcyclohexane
Concen: 20.258 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 83 Resp: 184052

Ion	Ratio	Lower	Upper
83	100		
55	72.2	57.6	86.4
98	47.4	39.2	58.8

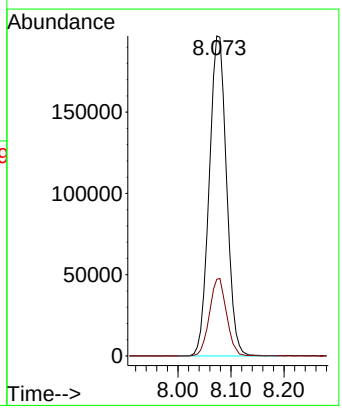


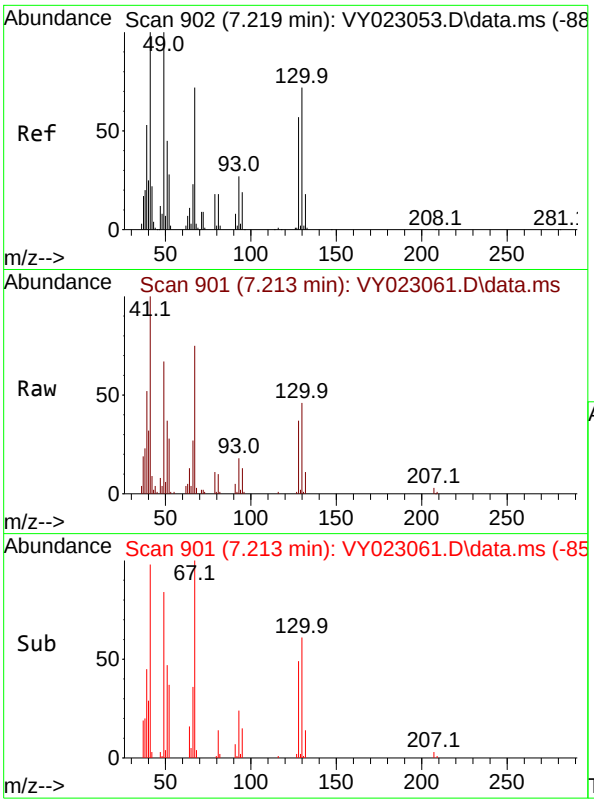


#40
Benzene
Concen: 21.020 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 78 Resp: 446973

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0



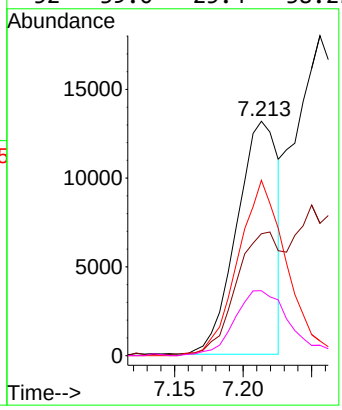


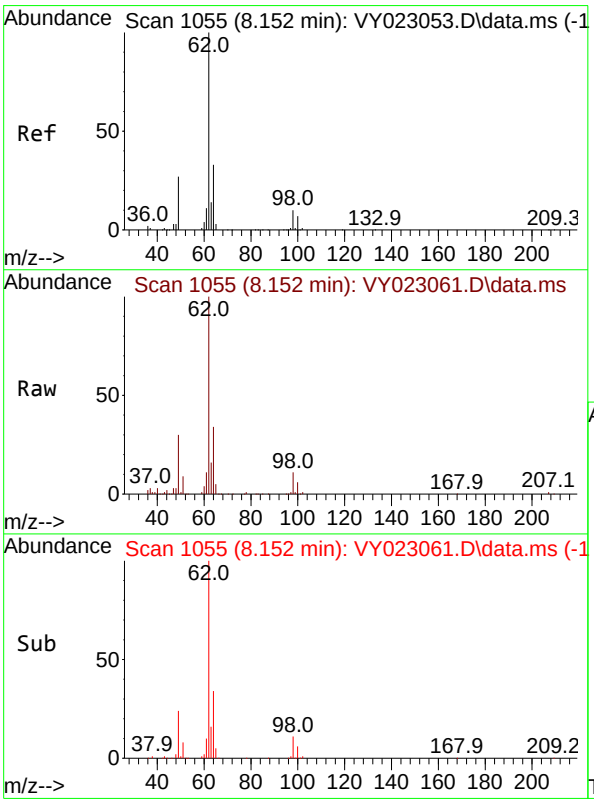
#41
Methacrylonitrile
Concen: 16.390 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 41 Resp: 27413

Ion	Ratio	Lower	Upper
41	100		
39	61.6	43.4	65.2
67	90.2	63.6	95.4
52	39.0	25.4	38.2#

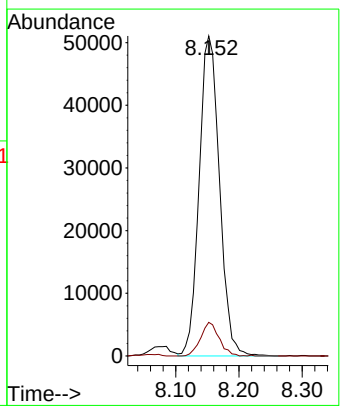


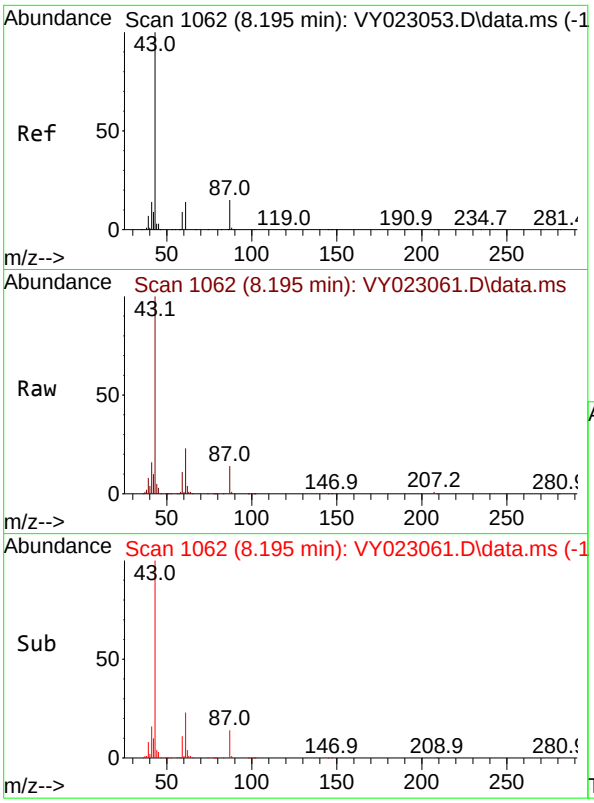


#42
1,2-Dichloroethane
Concen: 20.668 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 114299

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6



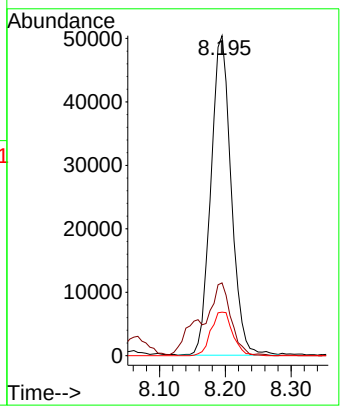


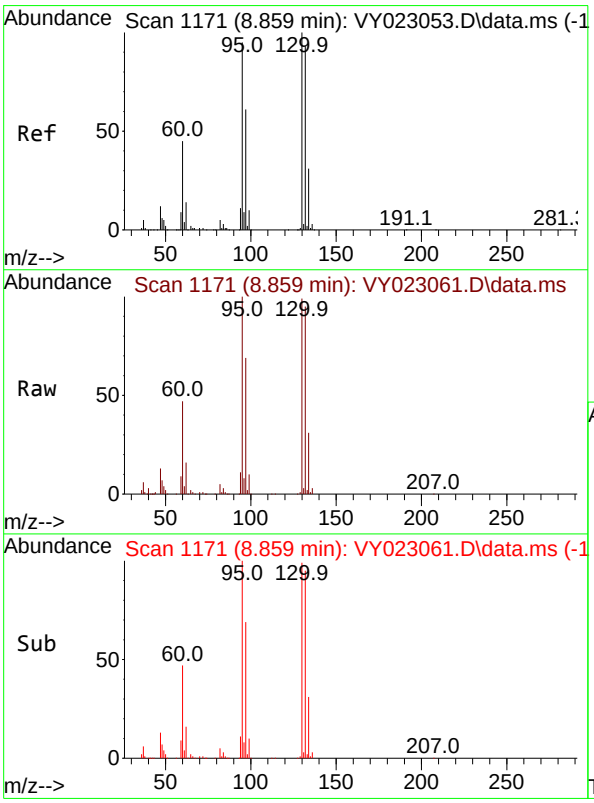
#43
Isopropyl Acetate
Concen: 18.507 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 43 Resp: 108405

Ion	Ratio	Lower	Upper
43	100		
61	22.2	16.4	24.6
87	14.5	11.8	17.6

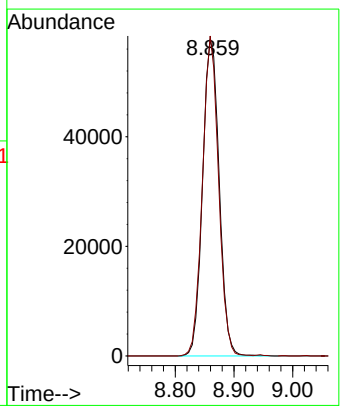


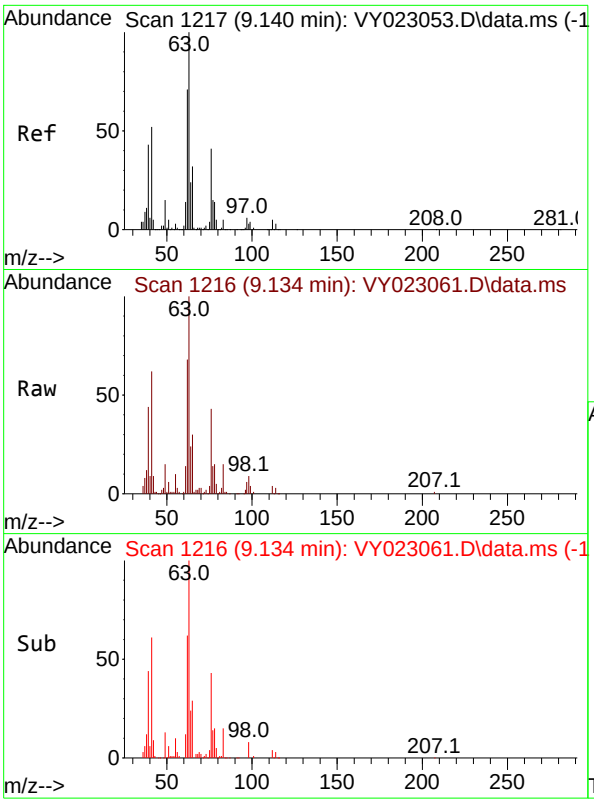


#44
Trichloroethene
Concen: 20.652 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:130 Resp: 113487

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	190.2



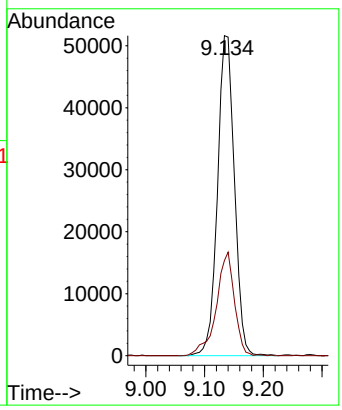


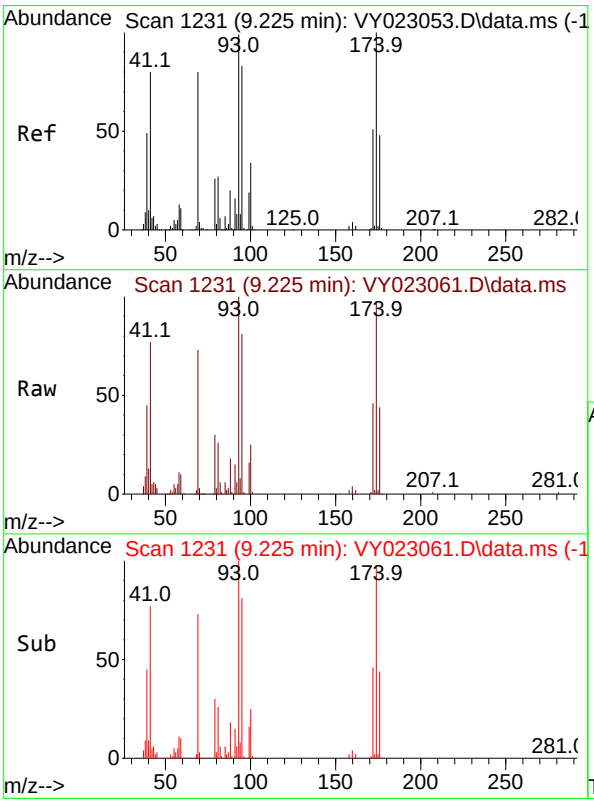
#45
1,2-Dichloropropane
Concen: 21.073 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 63 Resp: 103105

Ion	Ratio	Lower	Upper
63	100		
65	29.8	25.3	37.9

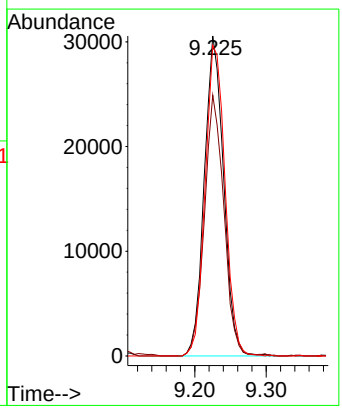


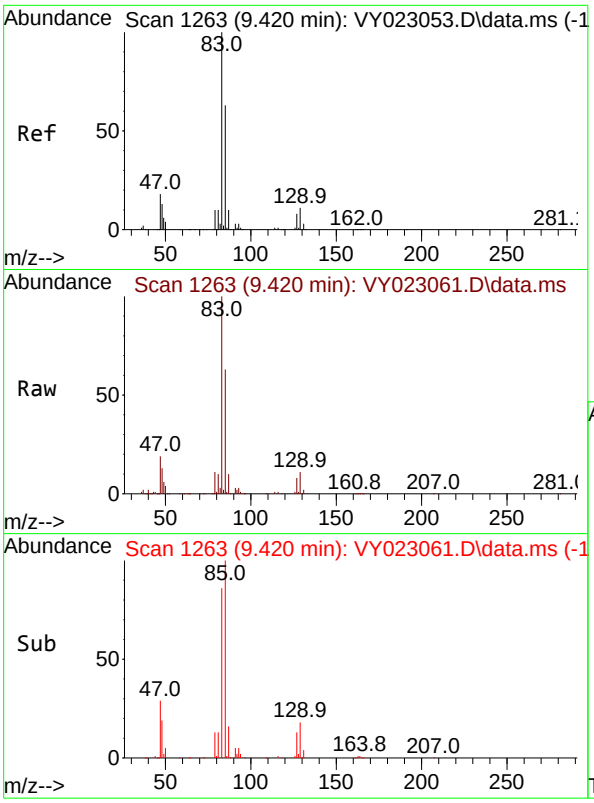


#46
Dibromomethane
Concen: 20.408 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 93 Resp: 57310

Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.5	99.7
174	100.0	81.8	122.8



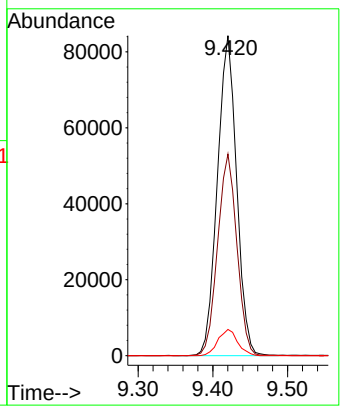


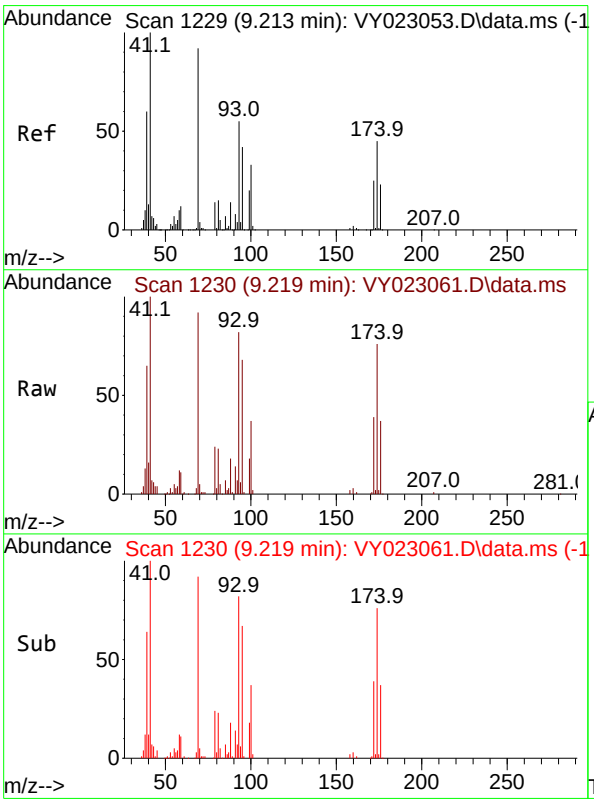
#47
Bromodichloromethane
Concen: 20.900 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 83 Resp: 151024

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.2	75.4
127	8.2	6.6	10.0

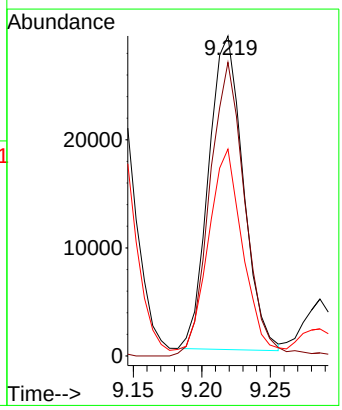


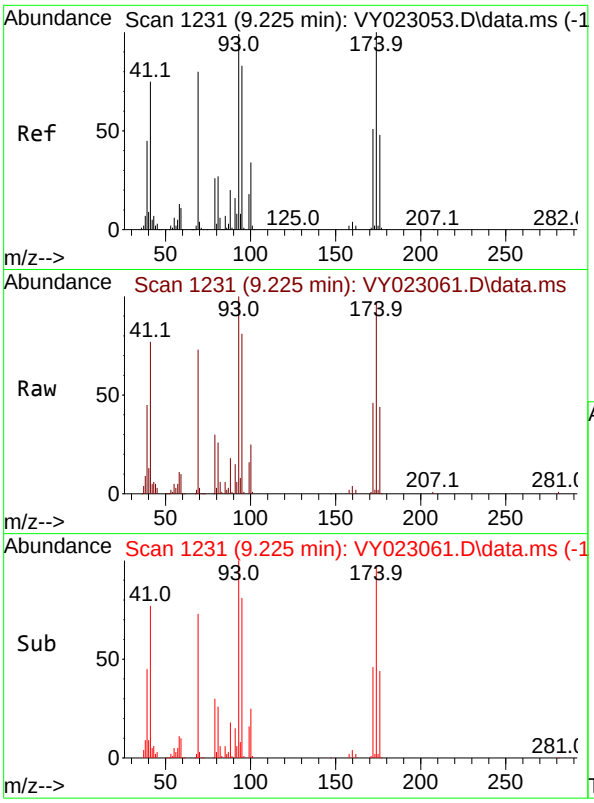


#48
Methyl methacrylate
Concen: 18.207 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 51033

Ion	Ratio	Lower	Upper
41	100		
69	95.5	73.2	109.8
39	62.7	47.0	70.4



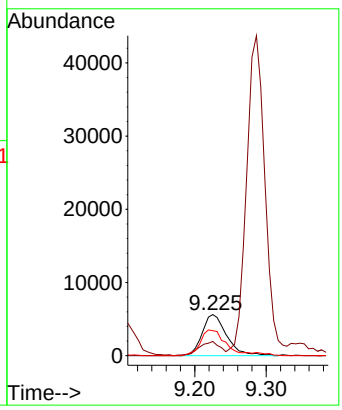


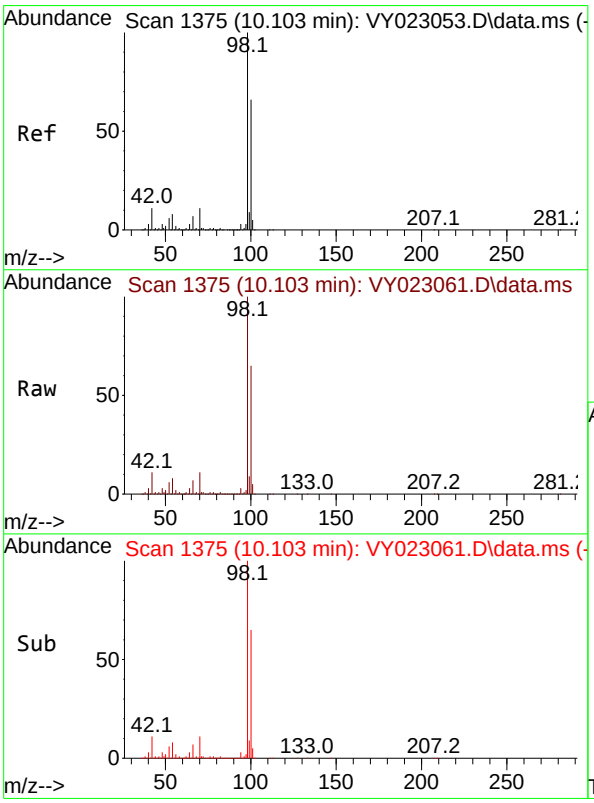
#49
1,4-Dioxane
Concen: 405.561 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 88 Resp: 13354

Ion	Ratio	Lower	Upper
88	100		
43	29.7	24.3	36.5
58	68.0	55.4	83.0

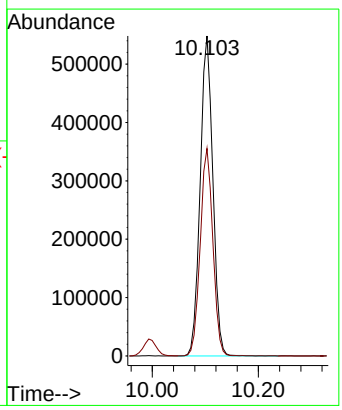


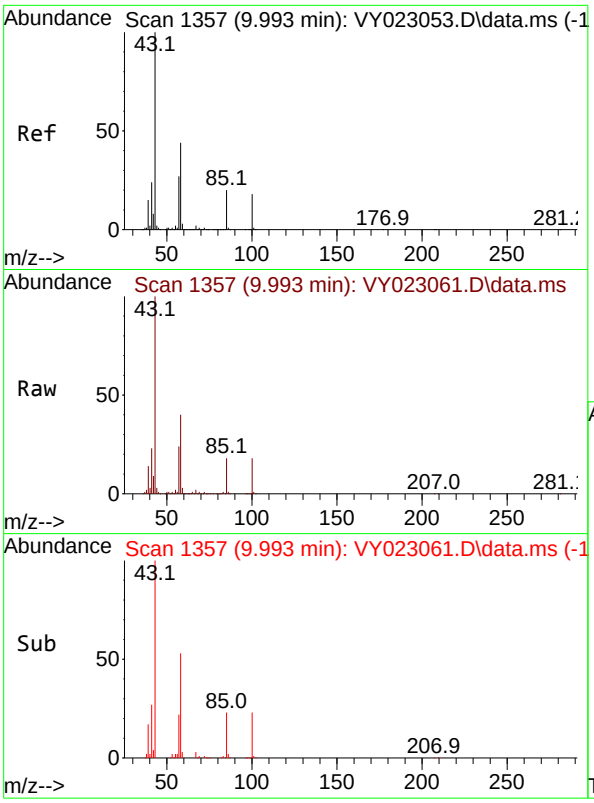


#50
Toluene-d8
Concen: 49.992 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 98 Resp: 906626

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.3	78.5



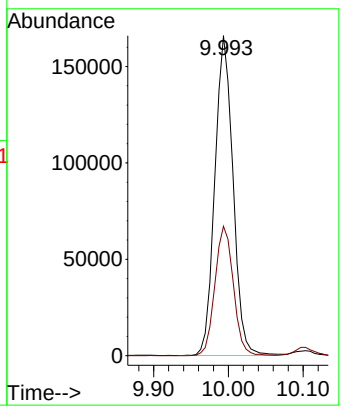


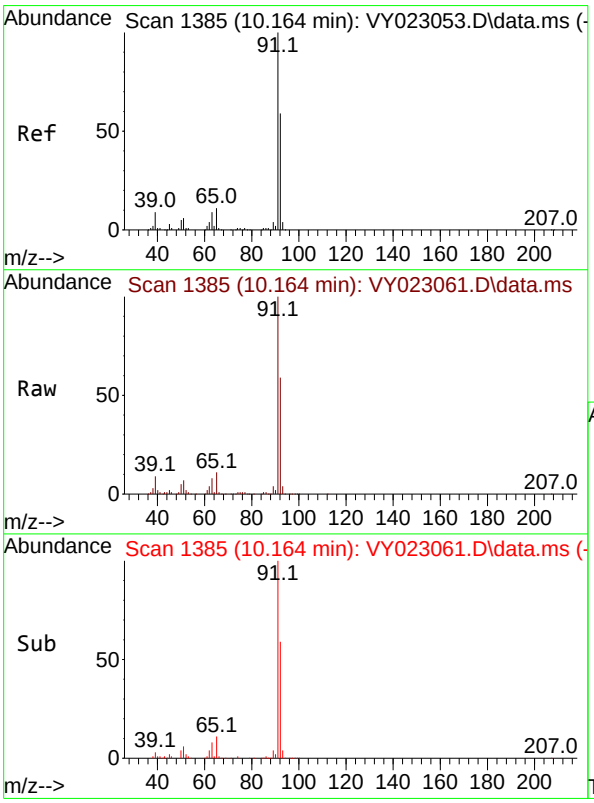
#51
4-Methyl-2-Pentanone
Concen: 93.183 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 43 Resp: 281551

Ion	Ratio	Lower	Upper
43	100		
58	41.1	33.5	50.3

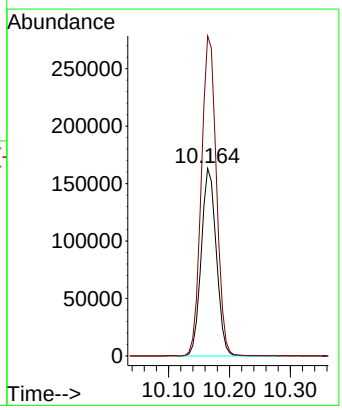


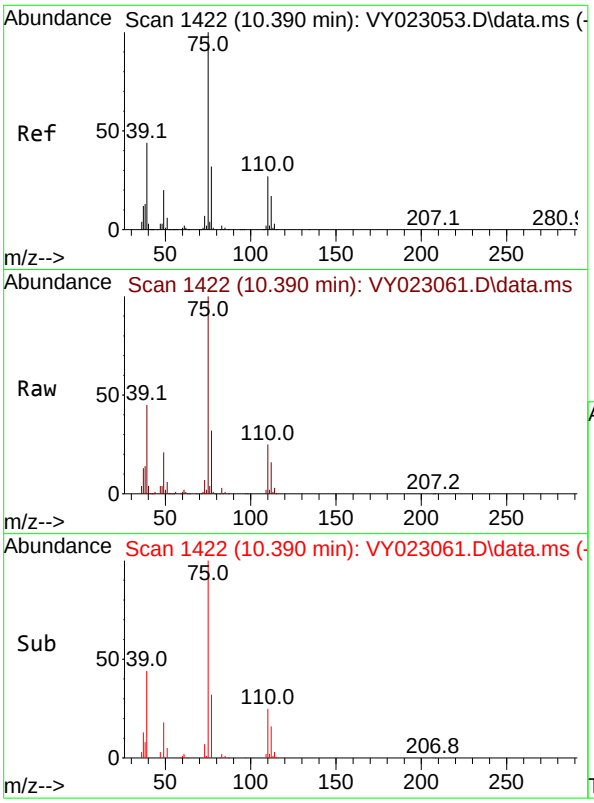


#52
Toluene
Concen: 20.769 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 92 Resp: 280495

Ion	Ratio	Lower	Upper
92	100		
91	170.9	136.4	204.6



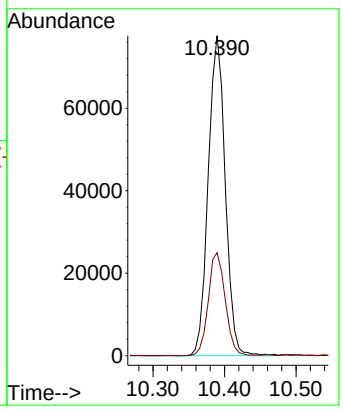


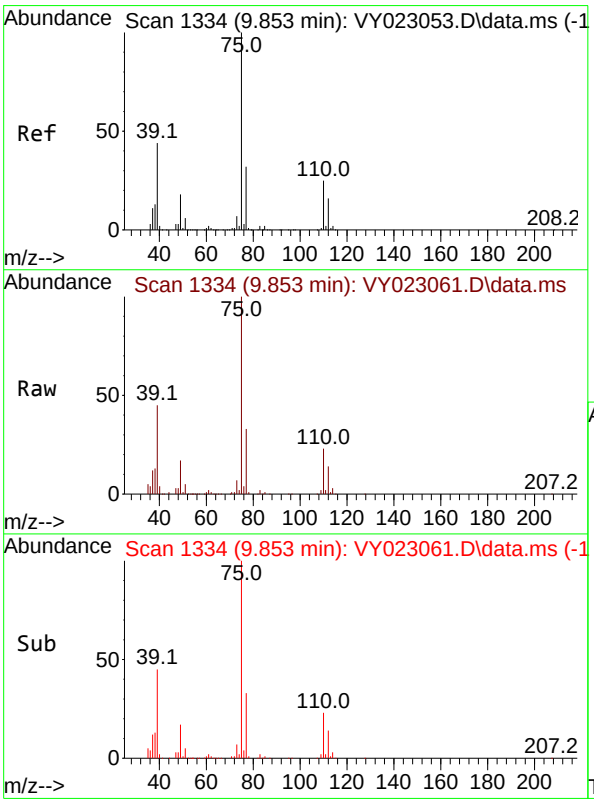
#53
t-1,3-Dichloropropene
Concen: 19.584 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 75 Resp: 128144

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.7	38.5

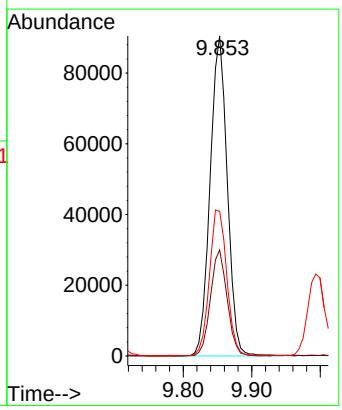


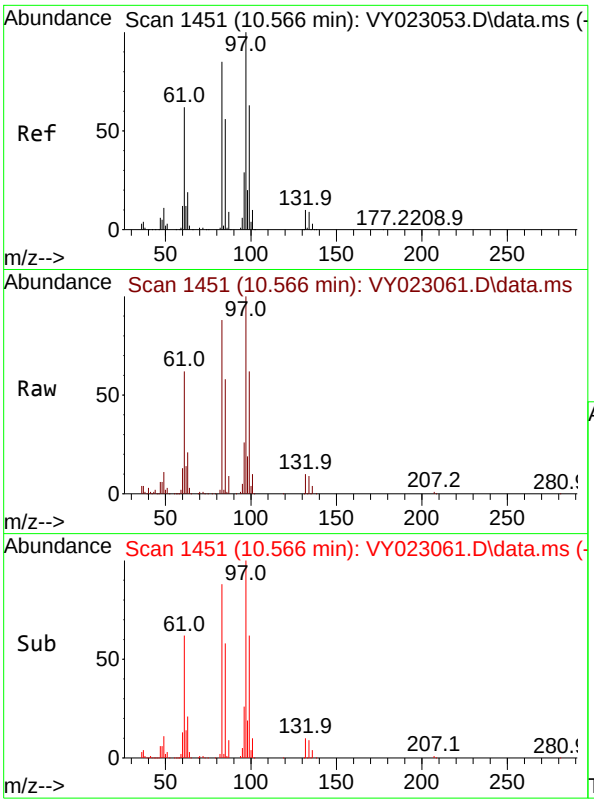


#54
cis-1,3-Dichloropropene
Concen: 20.305 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 157108

Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.4	38.0
39	45.1	35.6	53.4



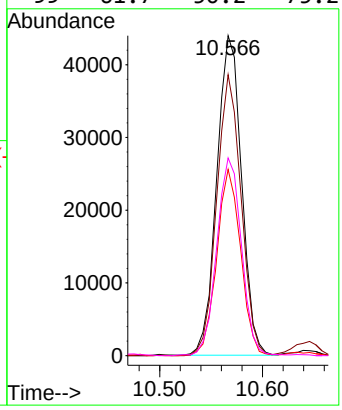


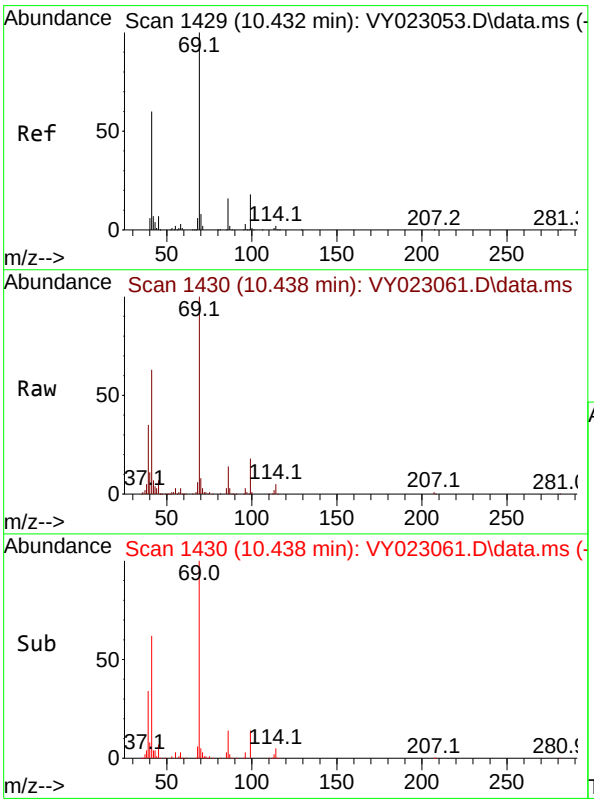
#55
1,1,2-Trichloroethane
Concen: 19.554 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 97 Resp: 73477

Ion	Ratio	Lower	Upper
97	100		
83	87.9	67.7	101.5
85	58.3	44.5	66.7
99	61.7	50.2	75.2

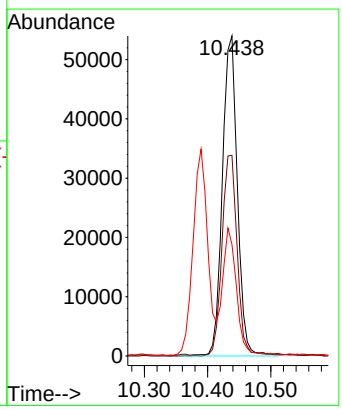


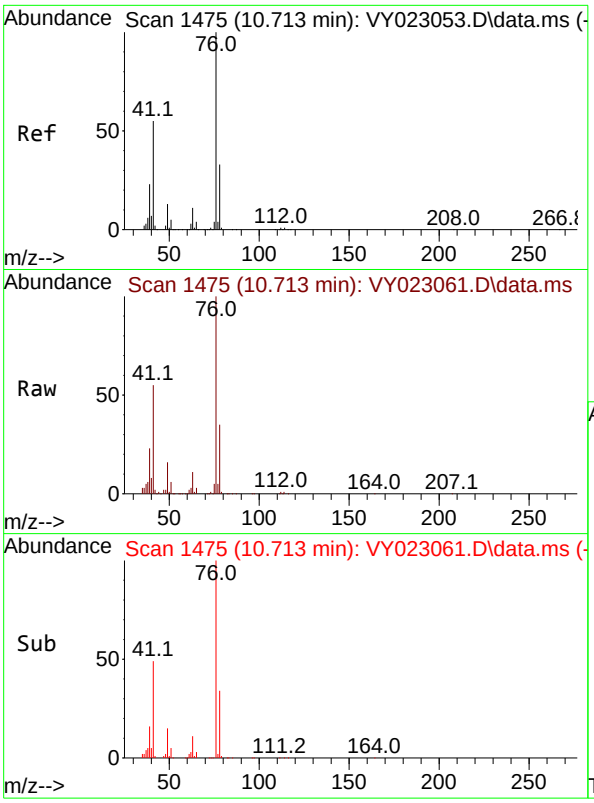


#56
Ethyl methacrylate
Concen: 18.338 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 69 Resp: 88174

Ion	Ratio	Lower	Upper
69	100		
41	62.4	48.6	72.8
39	35.5	27.0	40.4



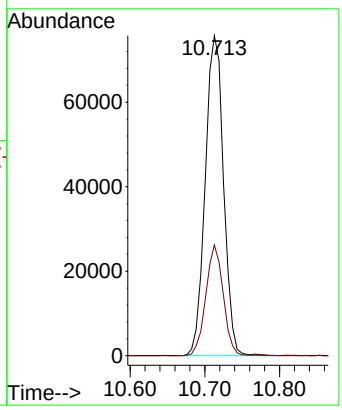


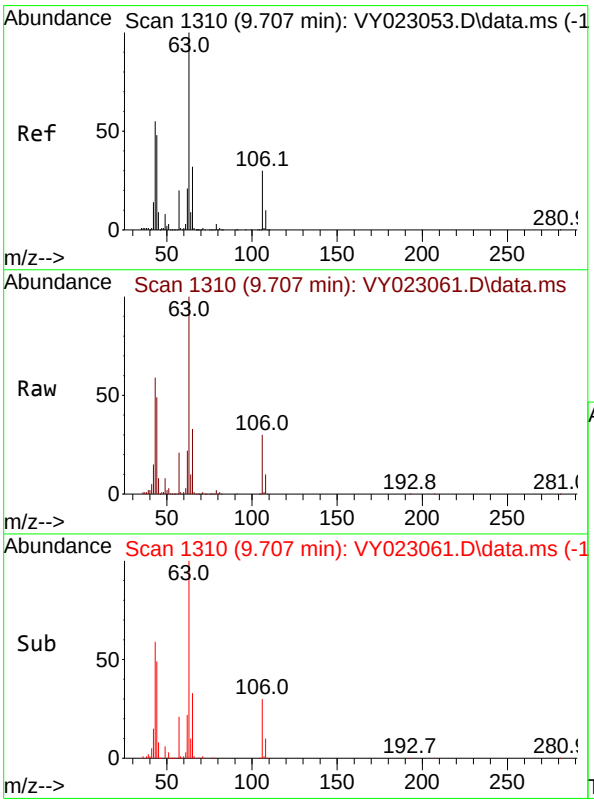
#57
1,3-Dichloropropane
Concen: 20.247 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 76 Resp: 129029

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.0	39.0

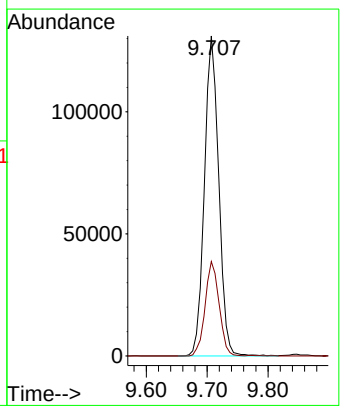


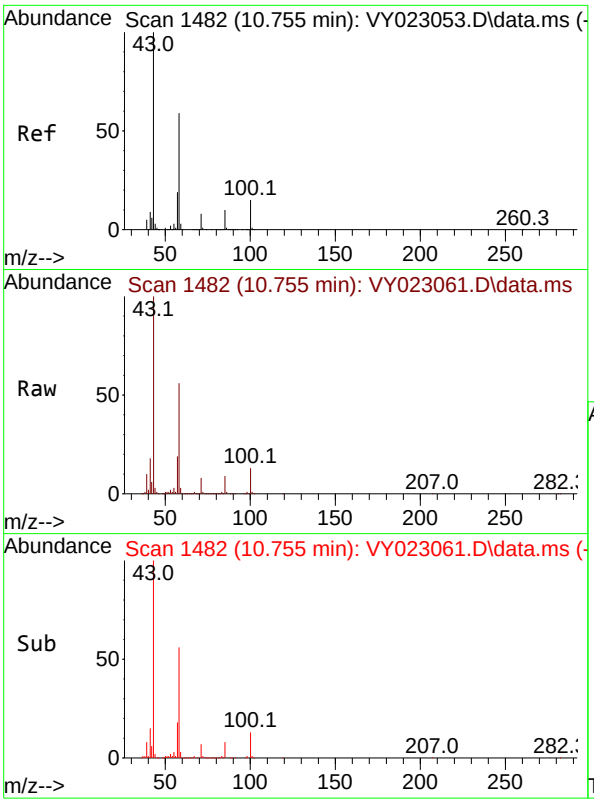


#58
2-Chloroethyl Vinyl ether
Concen: 94.383 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 214069

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8



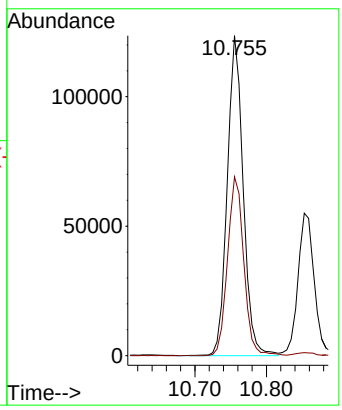


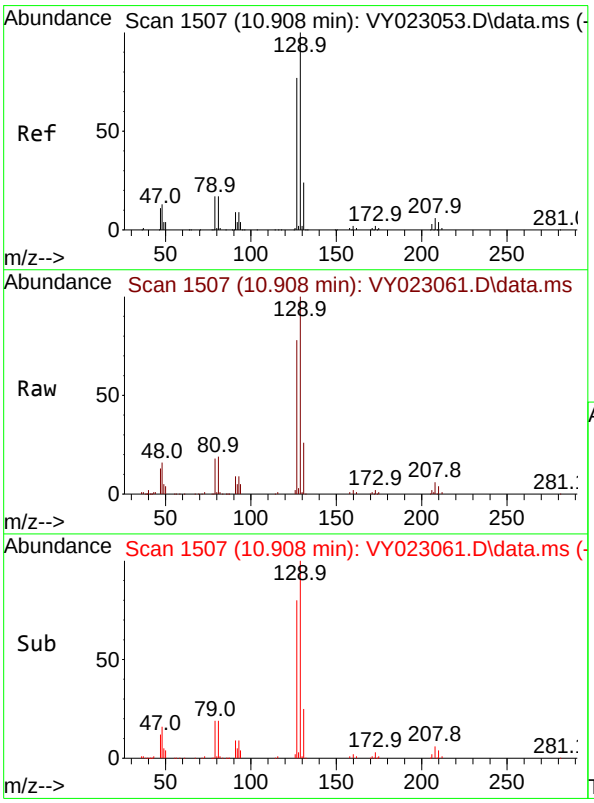
#59
2-Hexanone
Concen: 92.987 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 43 Resp: 191315

Ion	Ratio	Lower	Upper
43	100		
58	57.0	29.5	88.5

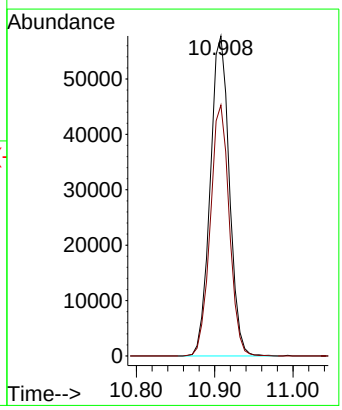


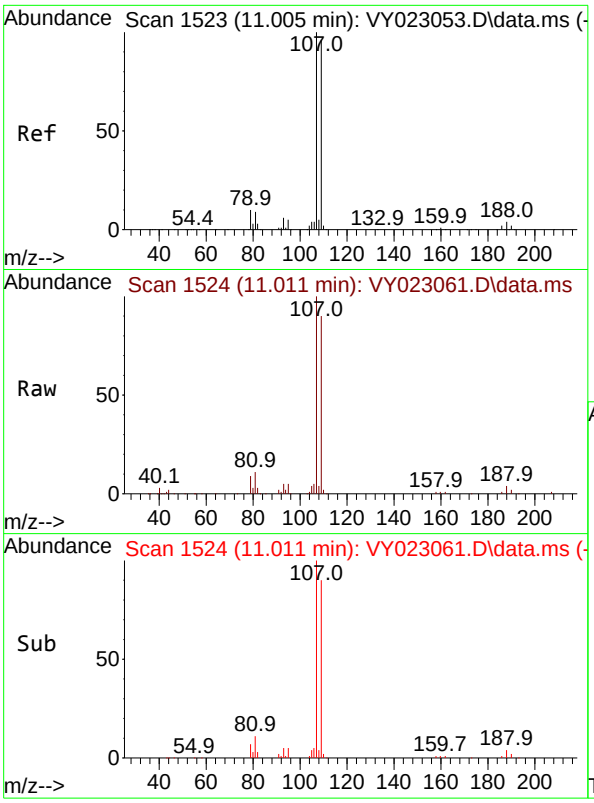


#60
Dibromochloromethane
Concen: 19.755 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:129 Resp: 97950

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5



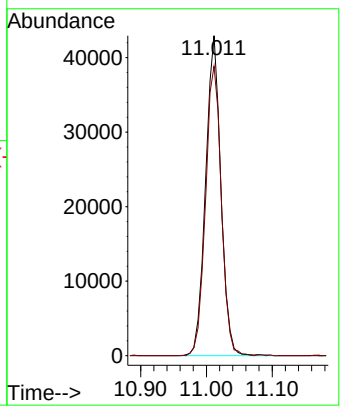


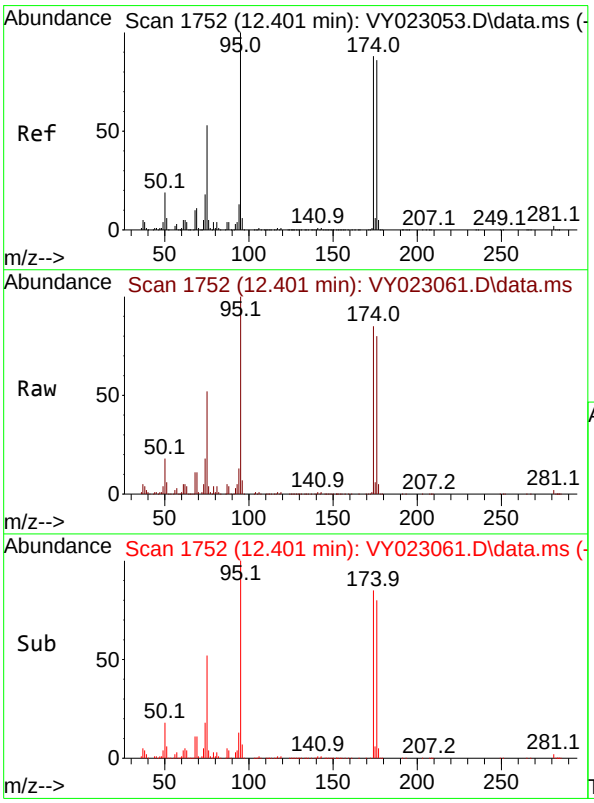
#61
1,2-Dibromoethane
Concen: 19.632 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:107 Resp: 69337

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.6	113.4

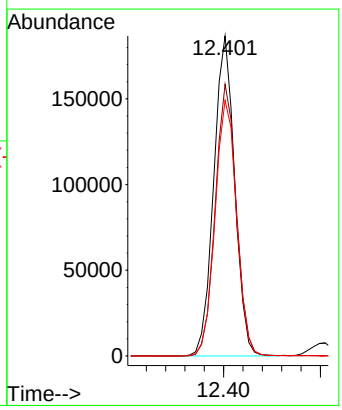


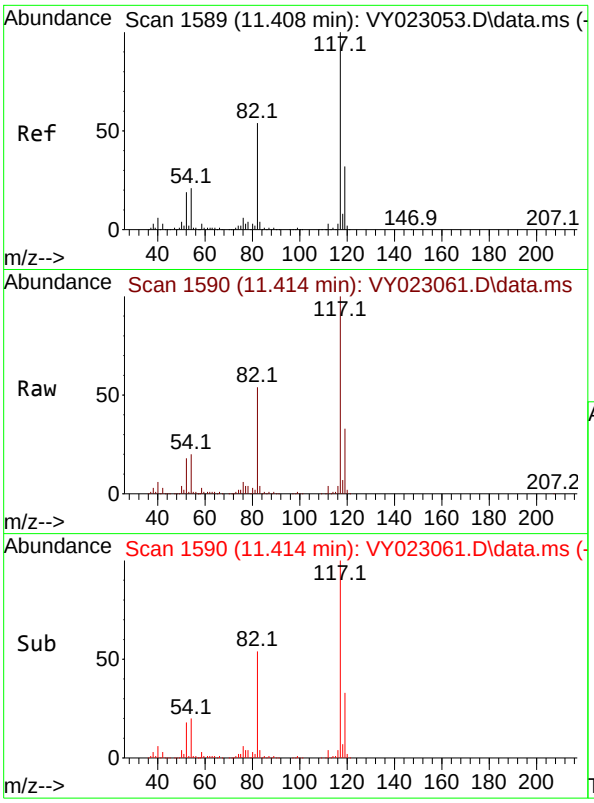


#62
4-Bromofluorobenzene
Concen: 47.943 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 95 Resp: 279619

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	171.6
176	82.3	0.0	167.6



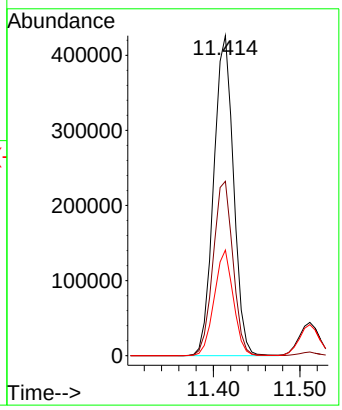


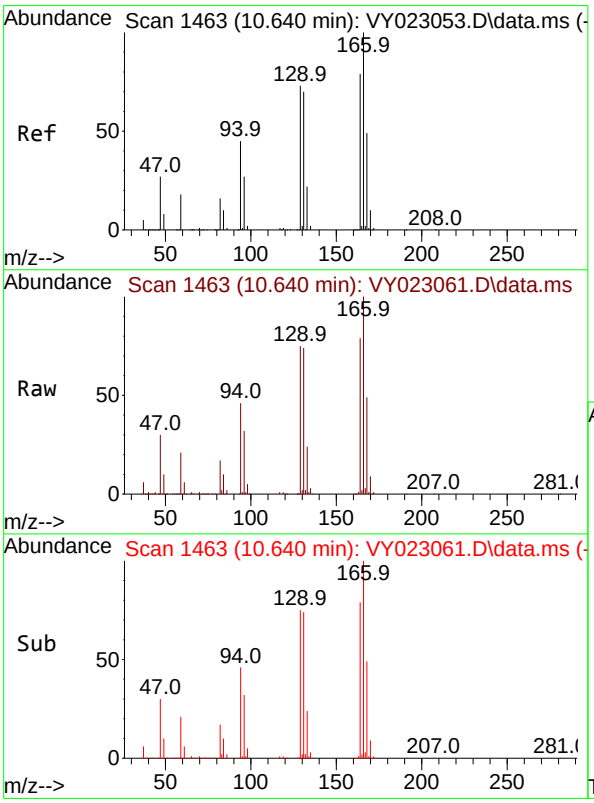
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:117 Resp: 675926

Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.4	65.0
119	33.0	25.6	38.4

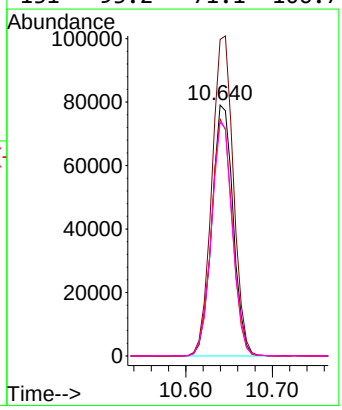


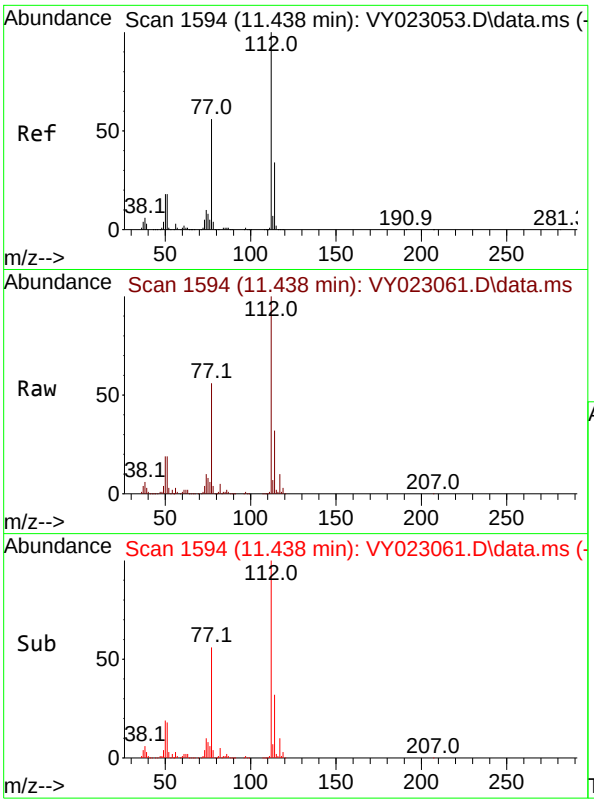


#64
Tetrachloroethene
Concen: 22.223 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:164 Resp: 134131

Ion	Ratio	Lower	Upper
164	100		
166	126.1	101.1	151.7
129	94.4	74.0	111.0
131	93.2	71.1	106.7



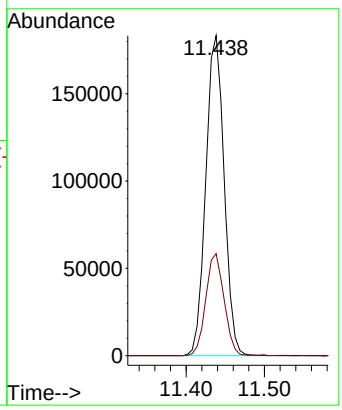


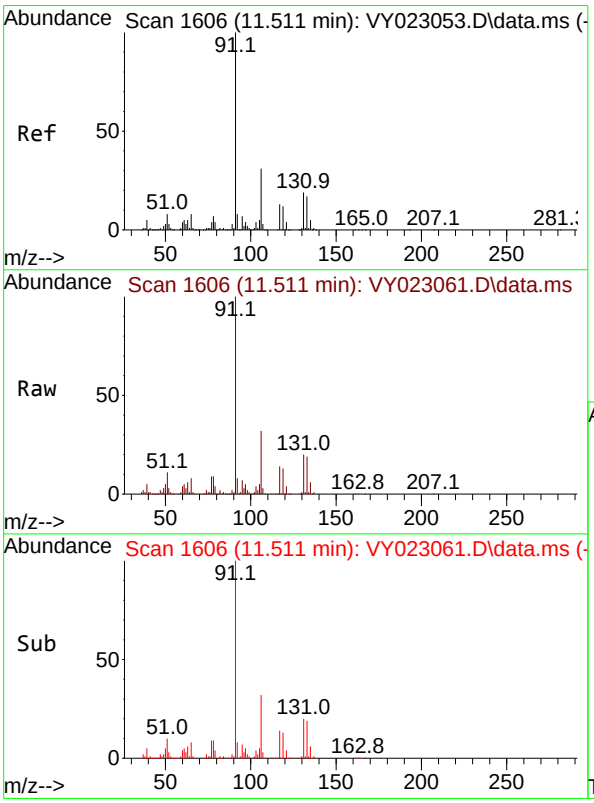
#65
Chlorobenzene
Concen: 20.431 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:112 Resp: 297874

Ion	Ratio	Lower	Upper
112	100		
114	31.9	27.0	40.4

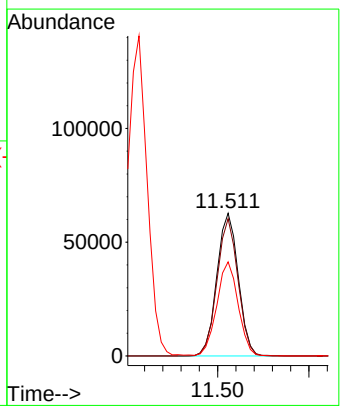


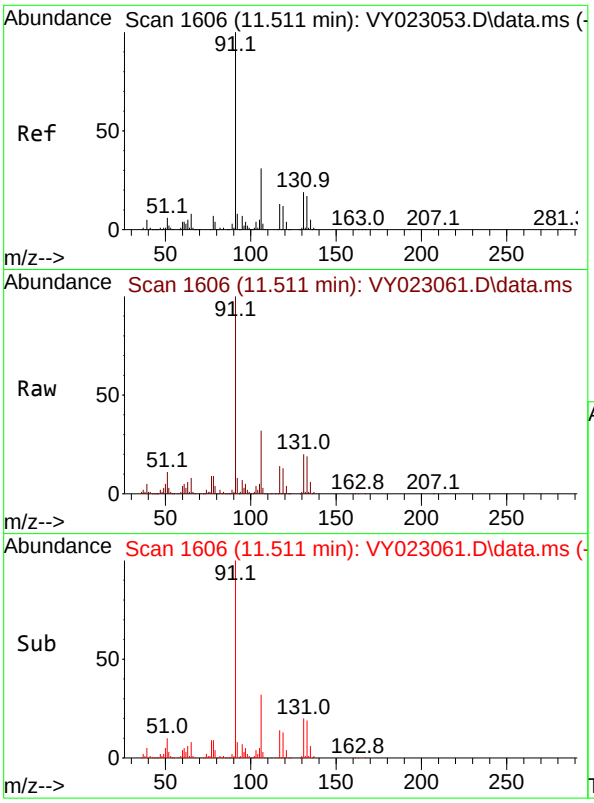


#66
1,1,1,2-Tetrachloroethane
Concen: 20.592 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:131 Resp: 101895

Ion	Ratio	Lower	Upper
131	100		
133	94.6	46.9	140.6
119	65.9	33.2	99.6



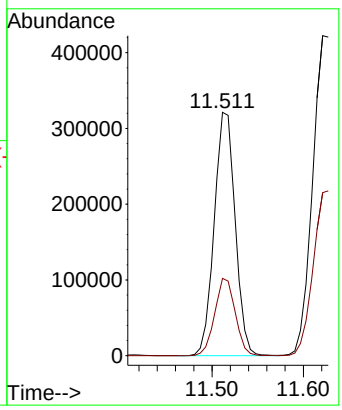


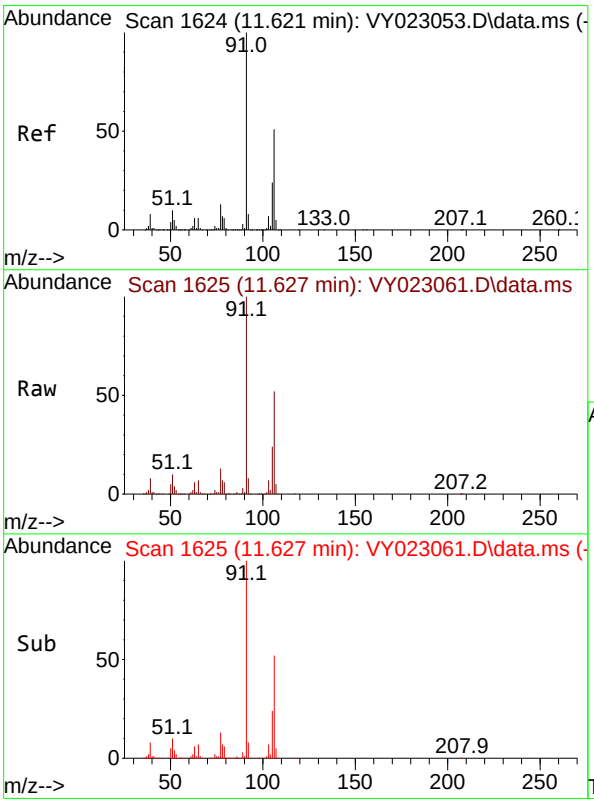
#67
Ethyl Benzene
Concen: 20.430 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 91 Resp: 512586

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

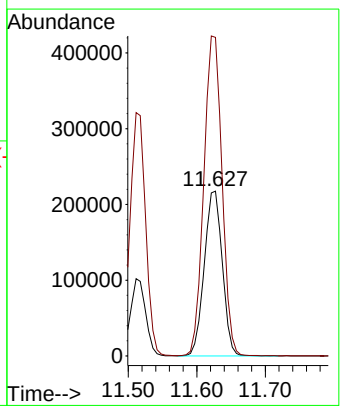


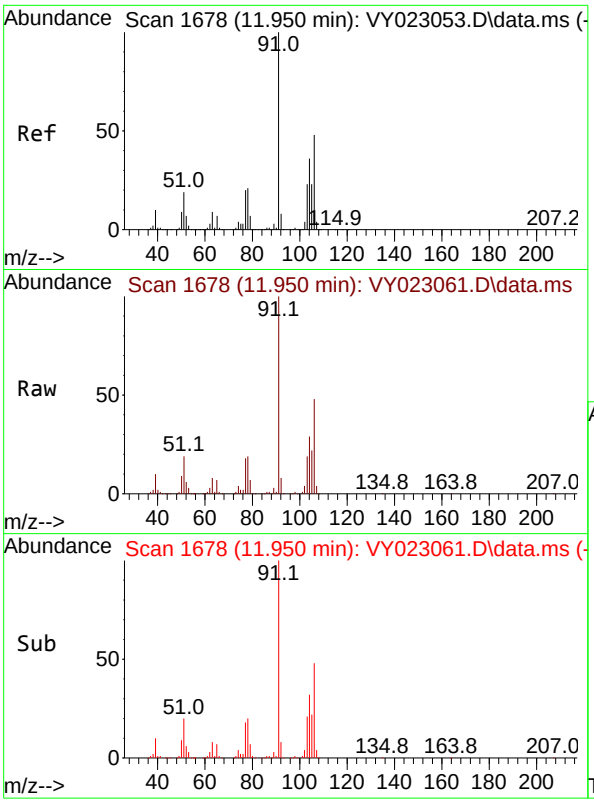


#68
m/p-Xylenes
Concen: 40.752 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:106 Resp: 399348

Ion	Ratio	Lower	Upper
106	100		
91	195.8	158.6	238.0



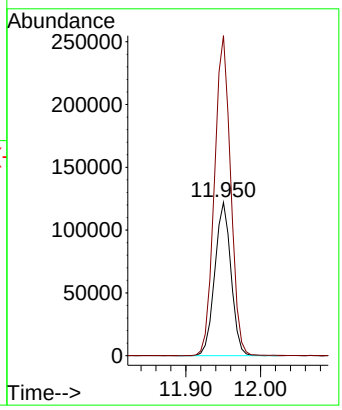


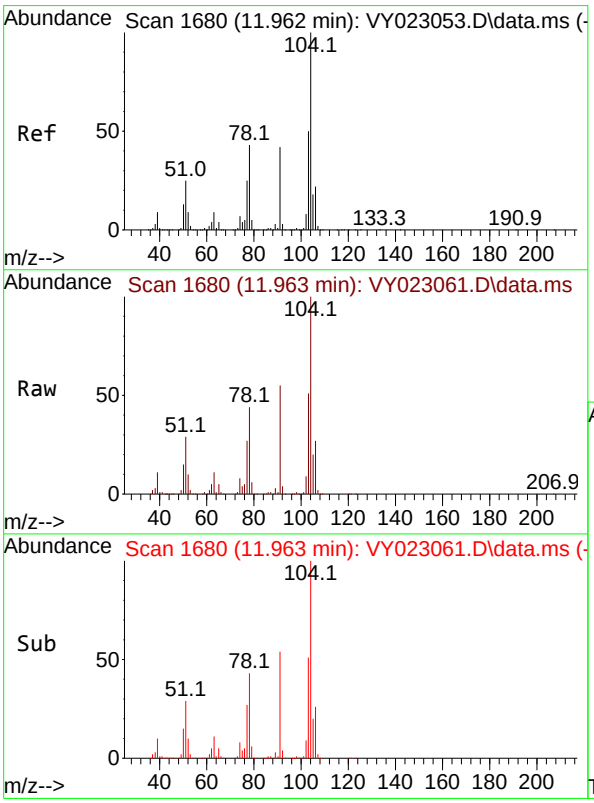
#69
o-Xylene
Concen: 20.065 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:106 Resp: 184155

Ion	Ratio	Lower	Upper
106	100		
91	209.2	103.2	309.4

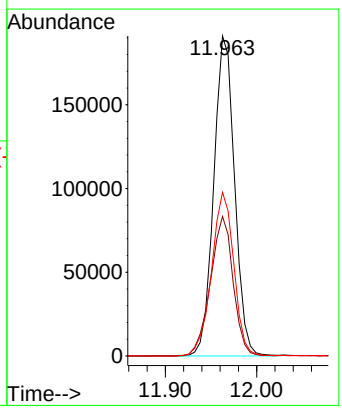


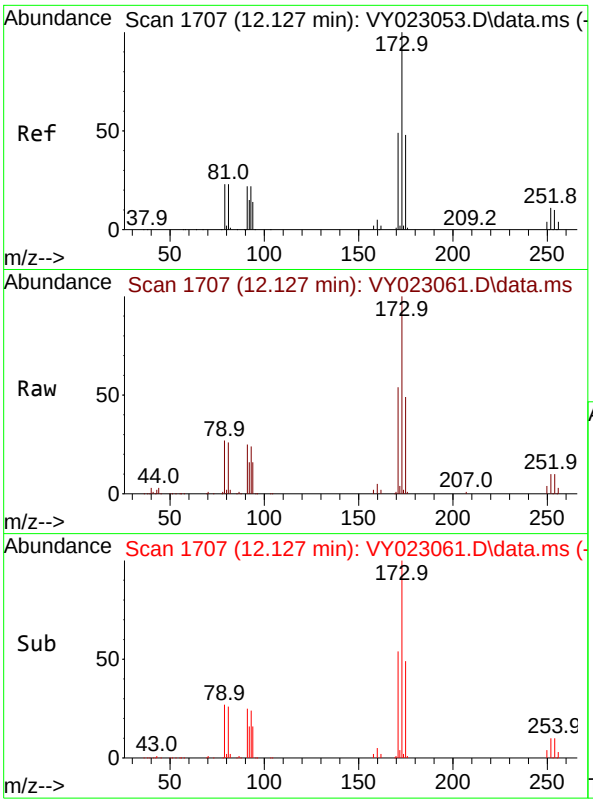


#70
Styrene
Concen: 20.179 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:104 Resp: 302870

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	54.5	43.7	65.5



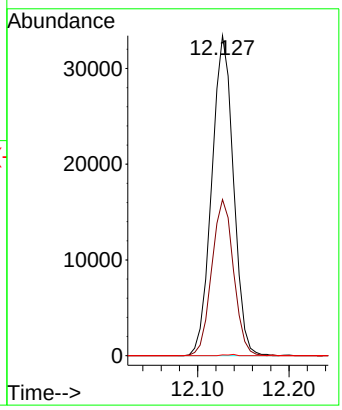


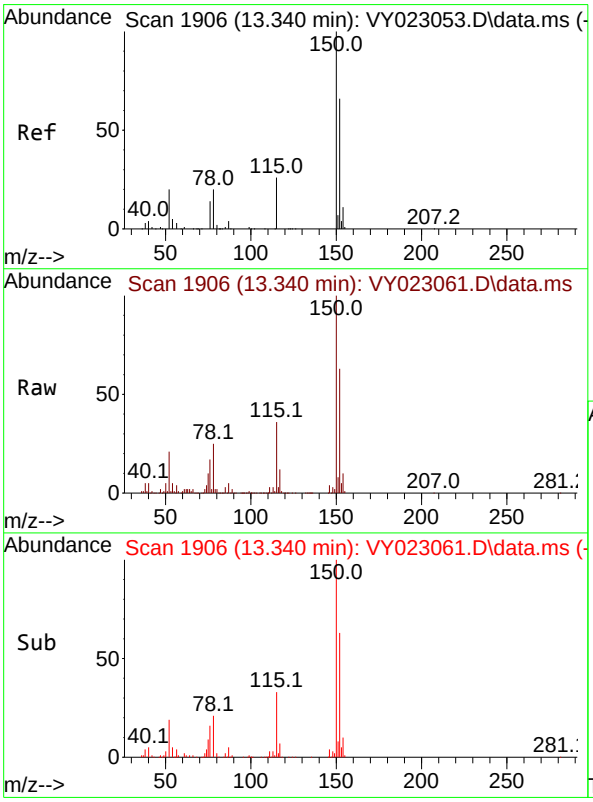
#71
Bromoform
Concen: 19.039 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:173 Resp: 55061

Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.9	71.7
254	0.2	0.1	0.1#

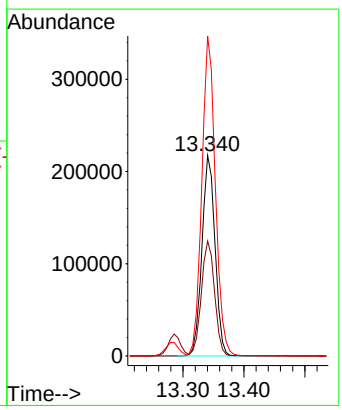


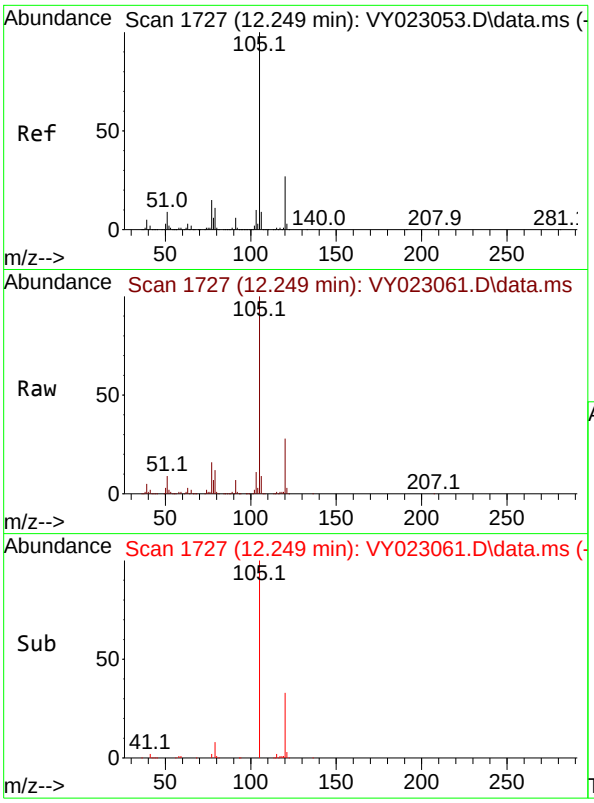


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:152 Resp: 325106

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.2	84.6
150	164.8	0.0	348.0



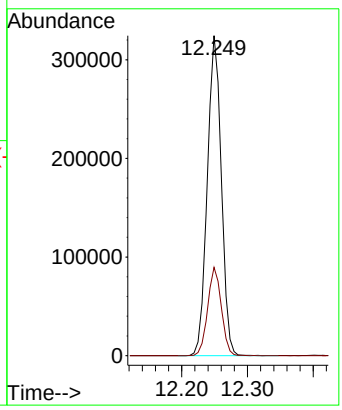


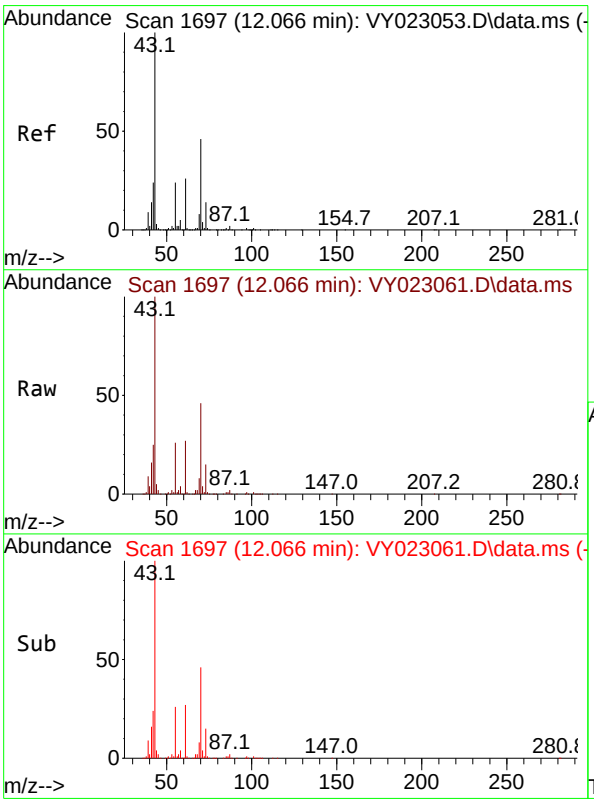
#73
Isopropylbenzene
Concen: 20.975 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:105 Resp: 481276

Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.4	40.2

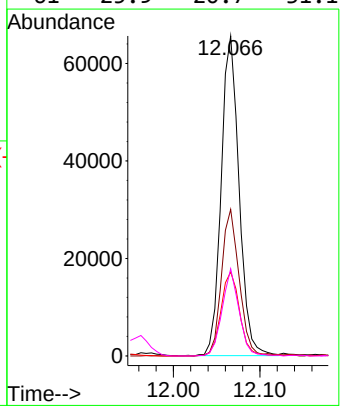


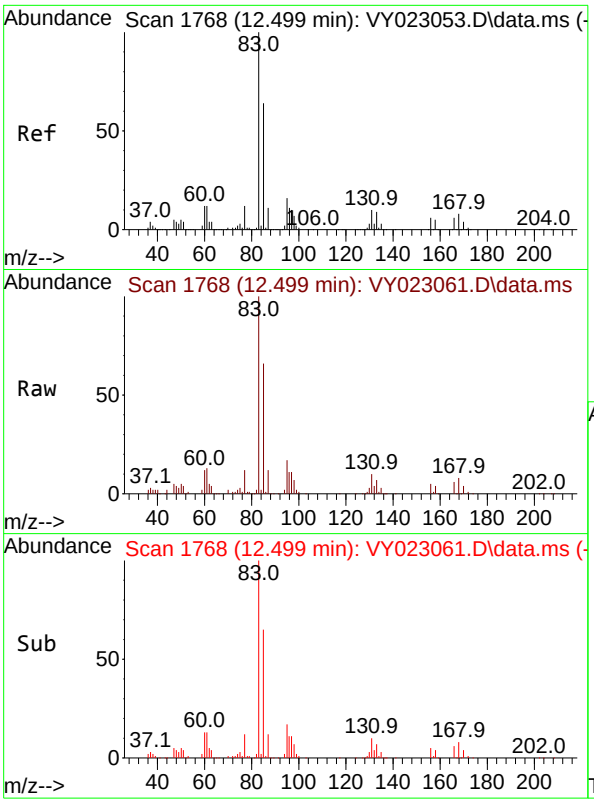


#74
N-amyl acetate
Concen: 19.346 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 94137

Ion	Ratio	Lower	Upper
43	100		
70	45.7	37.5	56.3
55	27.5	20.7	31.1
61	25.9	20.7	31.1



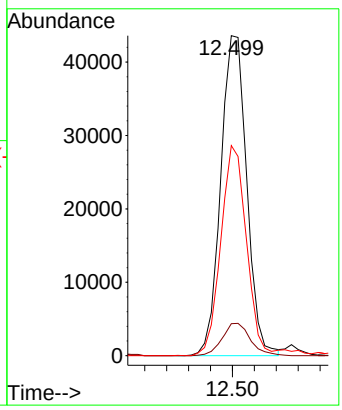


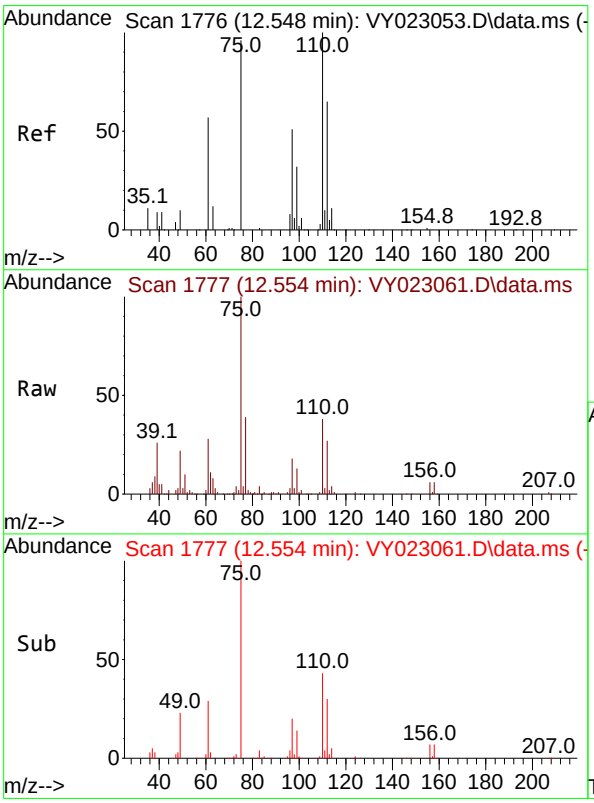
#75
1,1,2,2-Tetrachloroethane
Concen: 18.344 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 83 Resp: 71870

Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.1	15.3
85	64.7	31.8	95.3

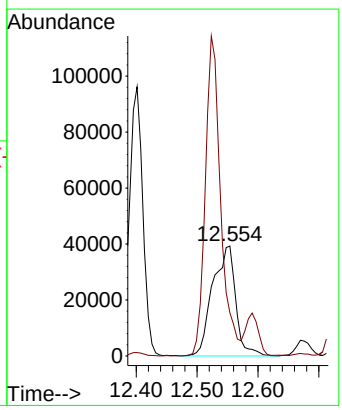


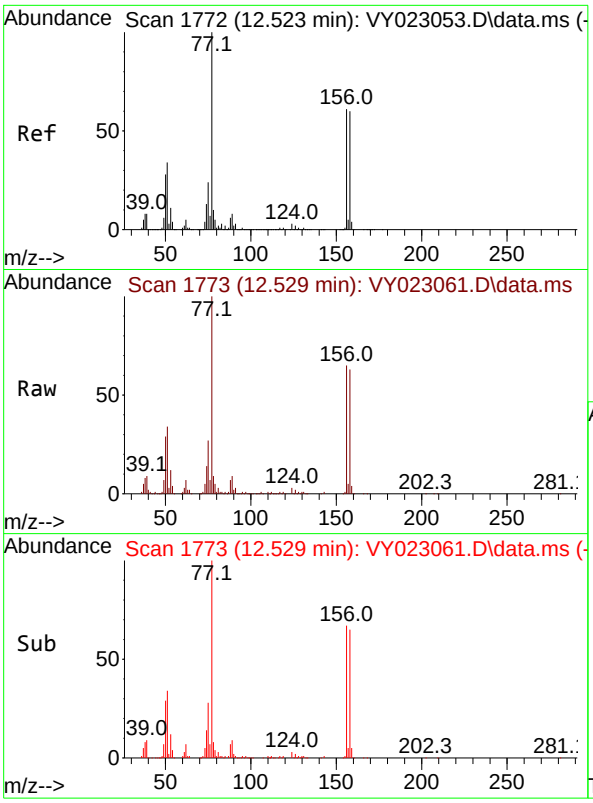


#76
1,2,3-Trichloropropane
Concen: 32.950 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 103385

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



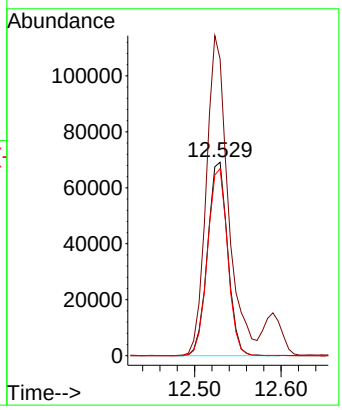


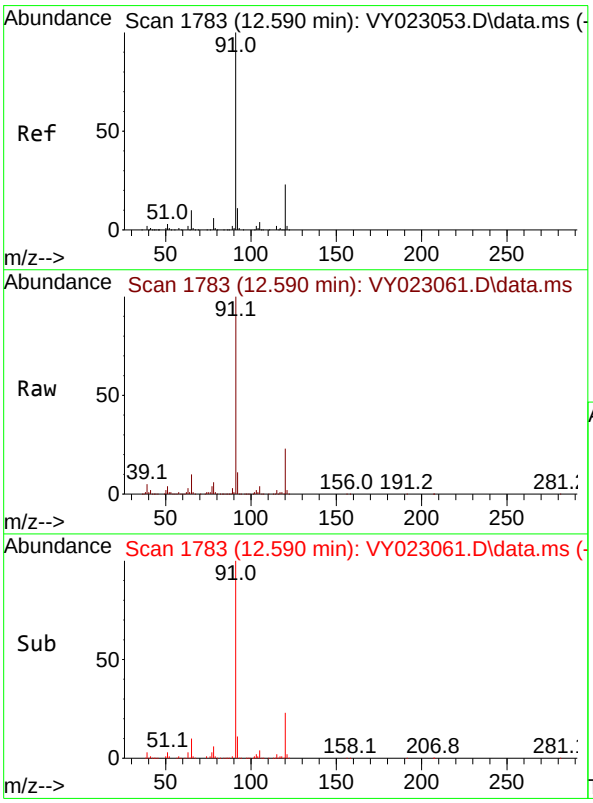
#77
Bromobenzene
Concen: 20.369 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:156 Resp: 111502

Ion	Ratio	Lower	Upper
156	100		
77	180.3	88.1	264.4
158	96.4	48.0	144.0

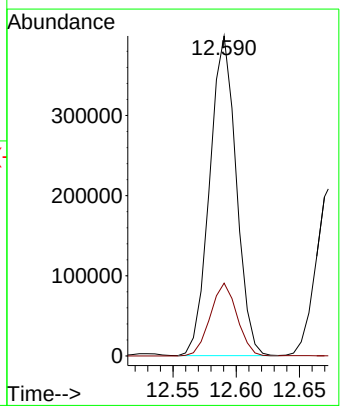


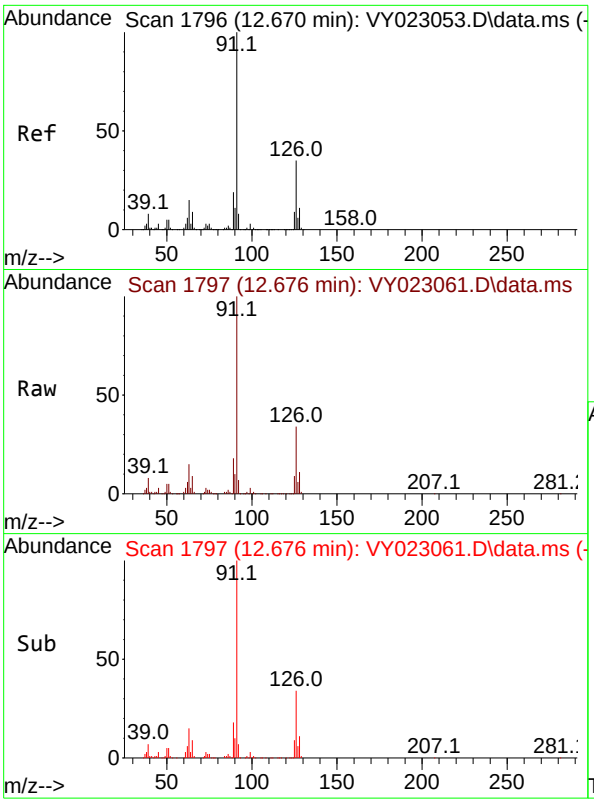


#78
n-propylbenzene
Concen: 21.291 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 581635

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



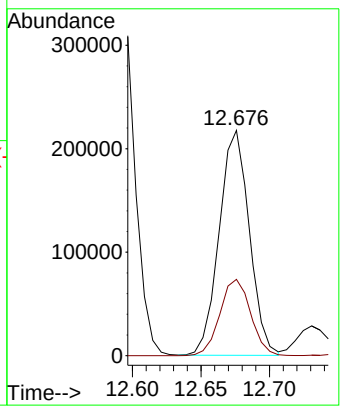


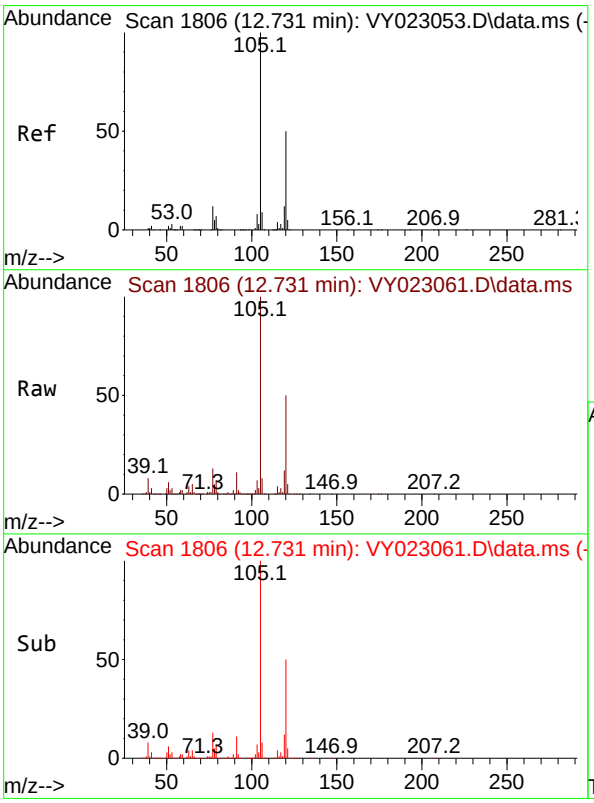
#79
2-Chlorotoluene
Concen: 21.244 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 91 Resp: 332511

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.4	52.3

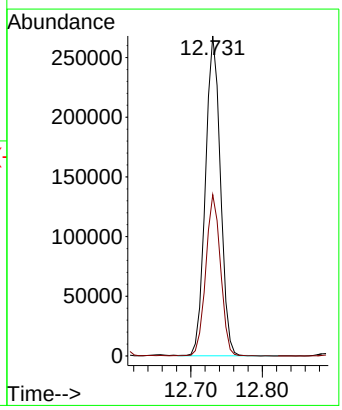


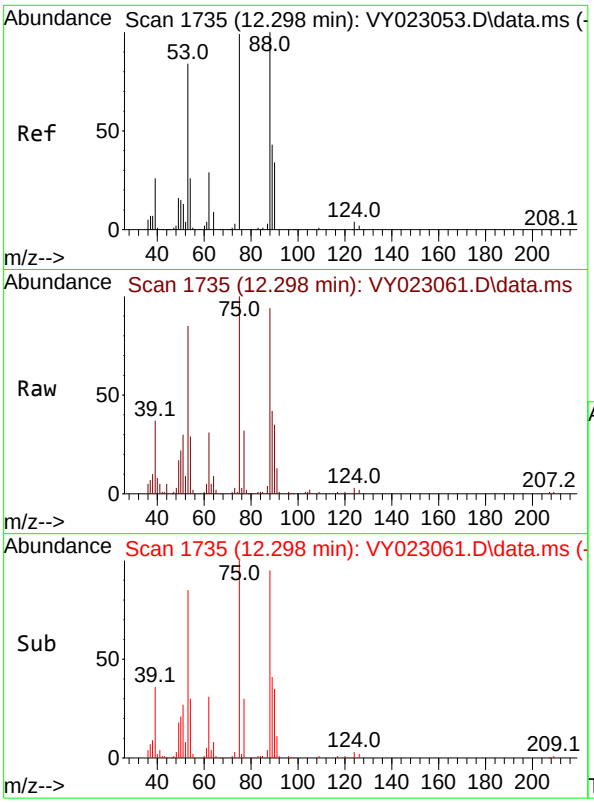


#80
1,3,5-Trimethylbenzene
Concen: 21.055 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390462

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.8	74.4



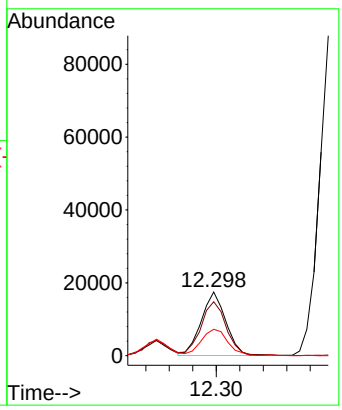


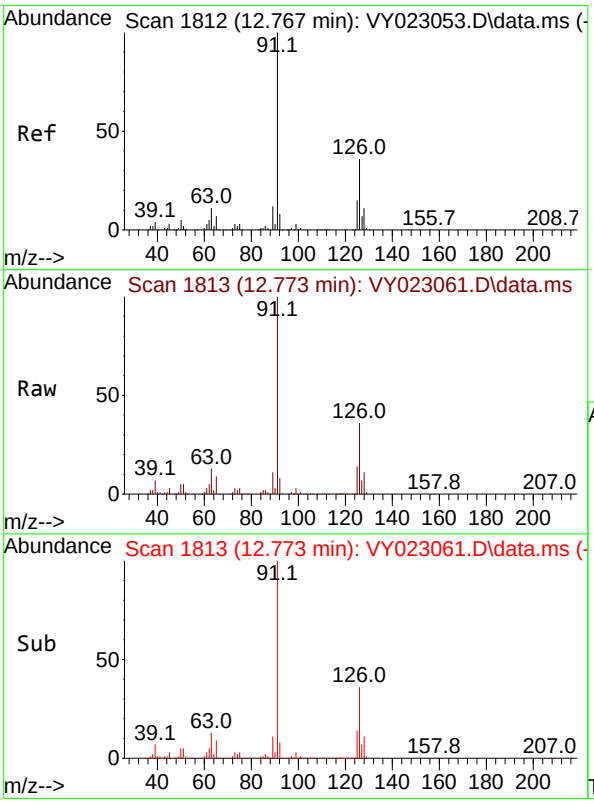
#81
trans-1,4-Dichloro-2-butene
Concen: 19.514 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 75 Resp: 25293

Ion	Ratio	Lower	Upper
75	100		
53	88.0	70.8	106.2
89	43.7	38.1	57.1

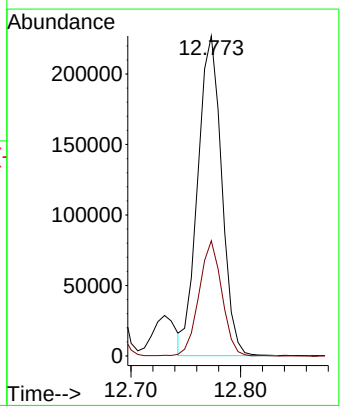


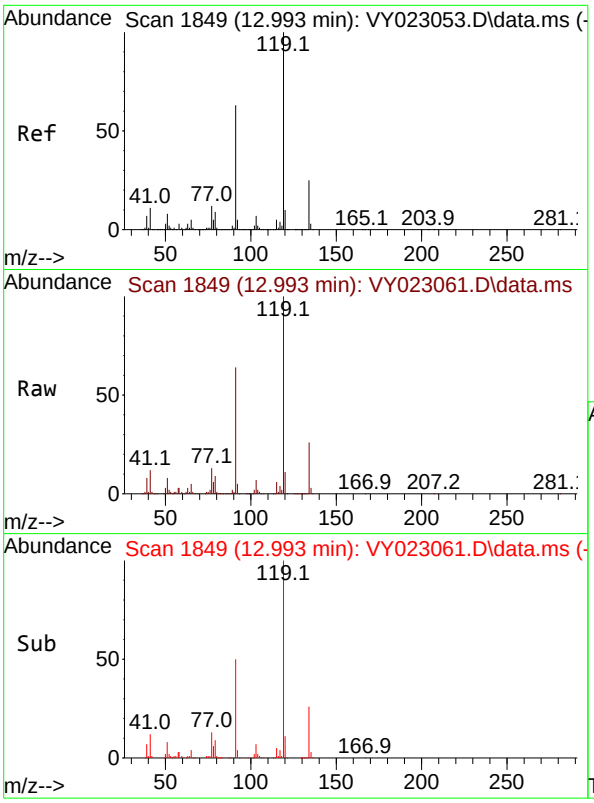


#82
4-Chlorotoluene
Concen: 21.176 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 343845

Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	52.0



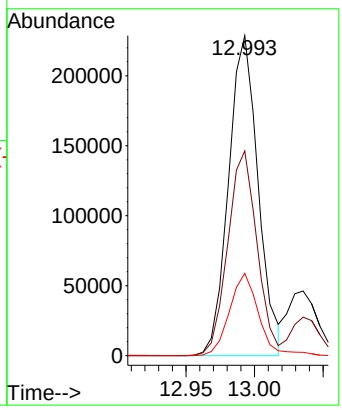


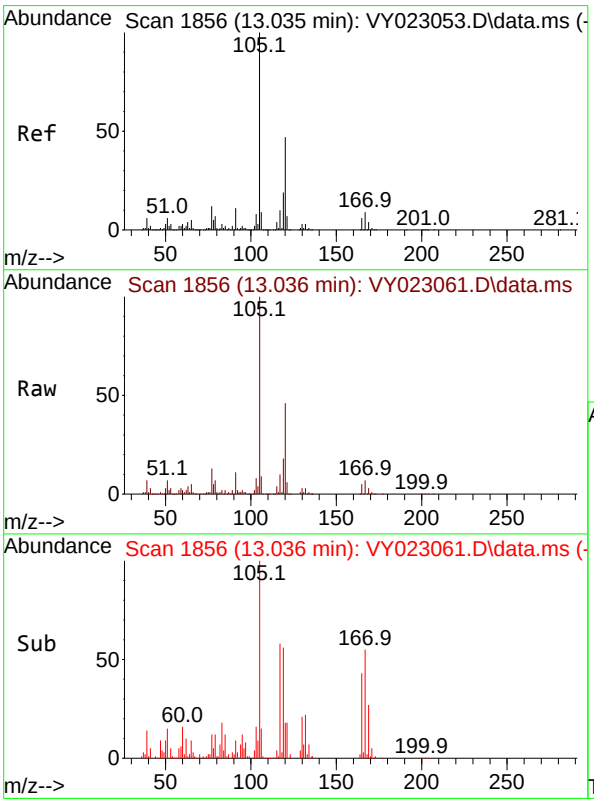
#83
tert-Butylbenzene
Concen: 20.545 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:119 Resp: 344106

Ion	Ratio	Lower	Upper
119	100		
91	63.0	31.6	94.8
134	25.4	12.9	38.7

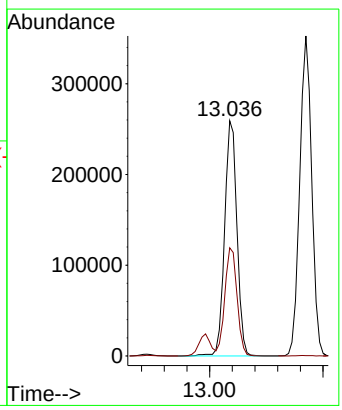


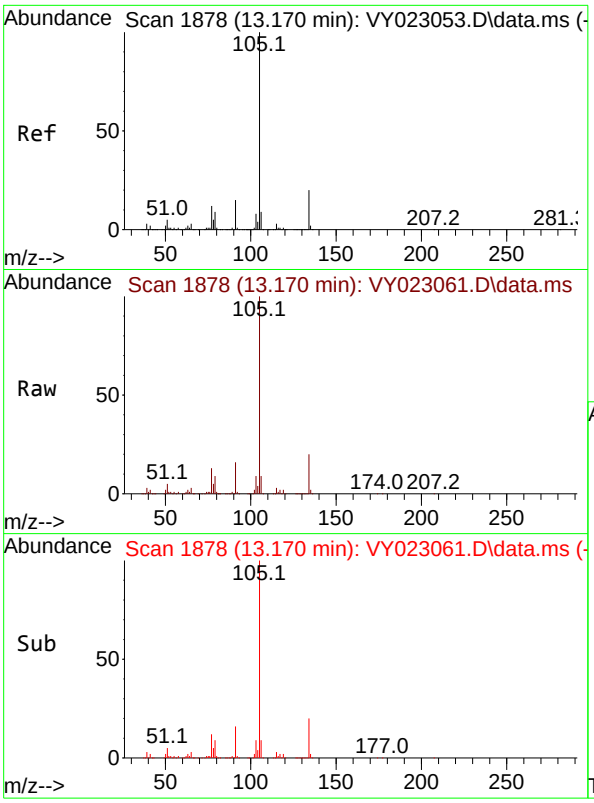


#84
1,2,4-Trimethylbenzene
Concen: 21.128 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390034

Ion	Ratio	Lower	Upper
105	100		
120	45.5	23.0	69.0



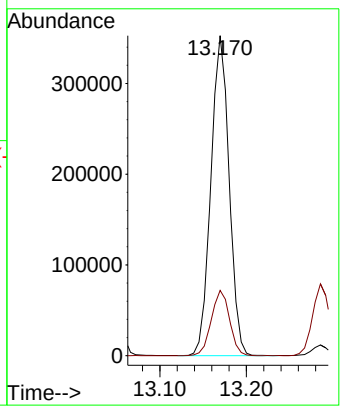


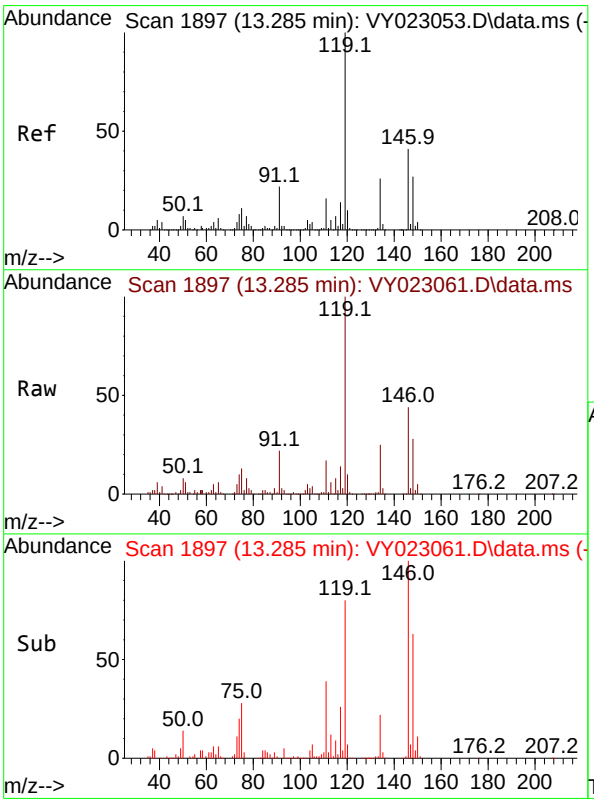
#85
sec-Butylbenzene
Concen: 20.962 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:105 Resp: 515732

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

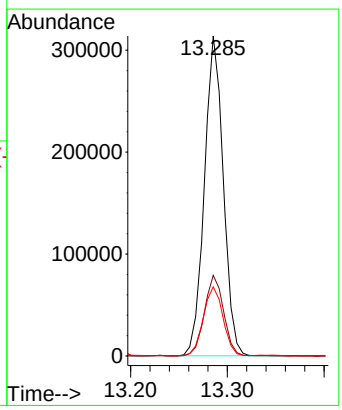


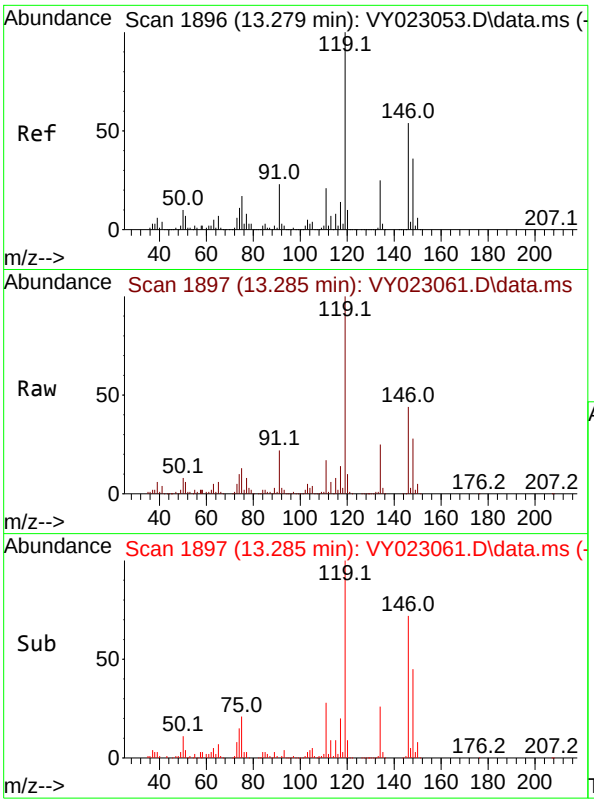


#86
p-Isopropyltoluene
Concen: 20.904 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:119 Resp: 426905

Ion	Ratio	Lower	Upper
119	100		
134	25.5	13.2	39.6
91	22.3	11.3	33.8



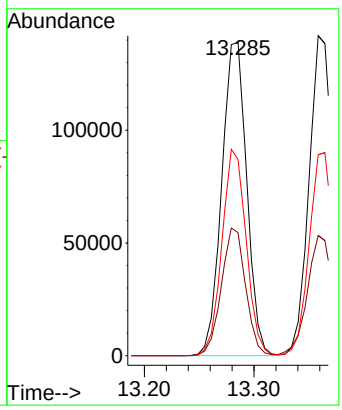


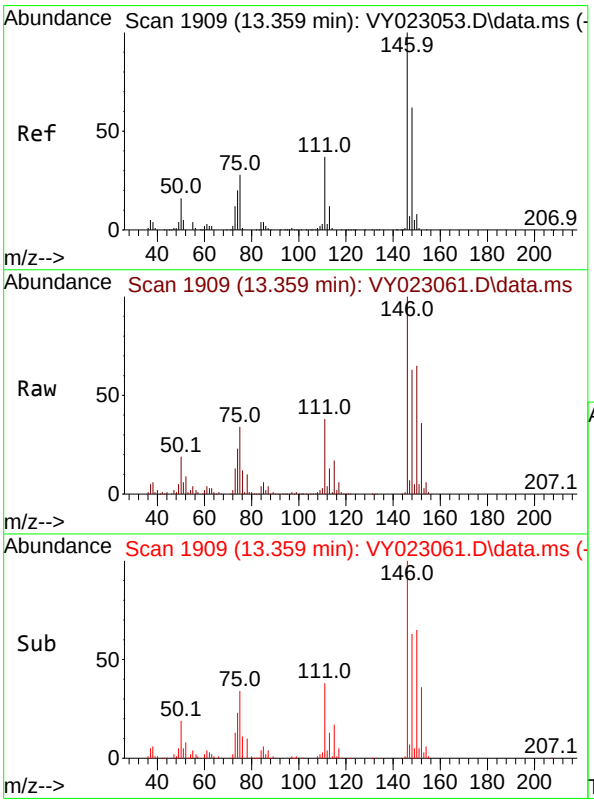
#87
1,3-Dichlorobenzene
Concen: 20.420 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:146 Resp: 220435

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.6	58.7
148	63.9	32.5	97.5

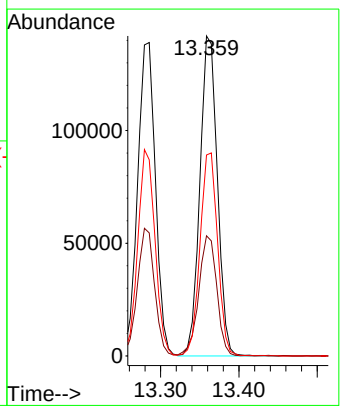


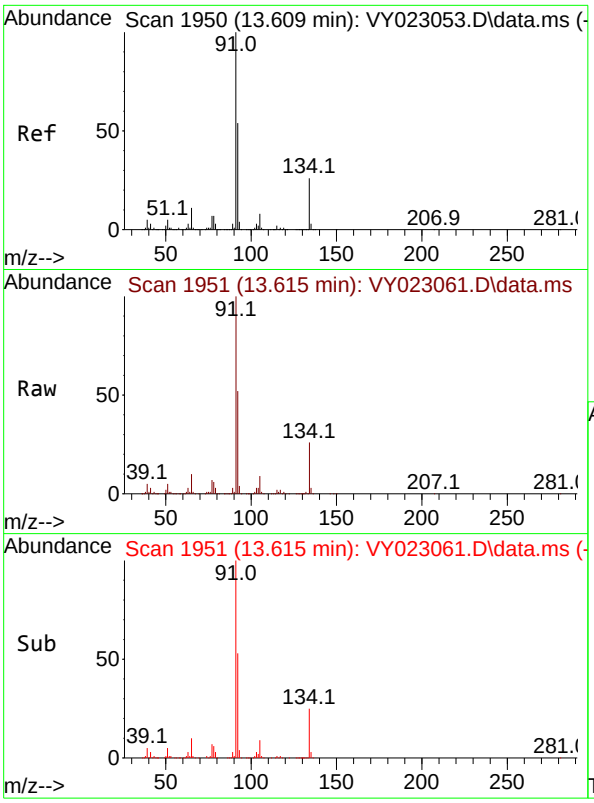


#88
1,4-Dichlorobenzene
Concen: 20.520 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 219736

Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.1	57.1
148	63.8	31.6	94.7



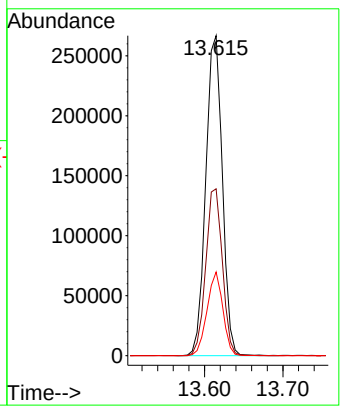


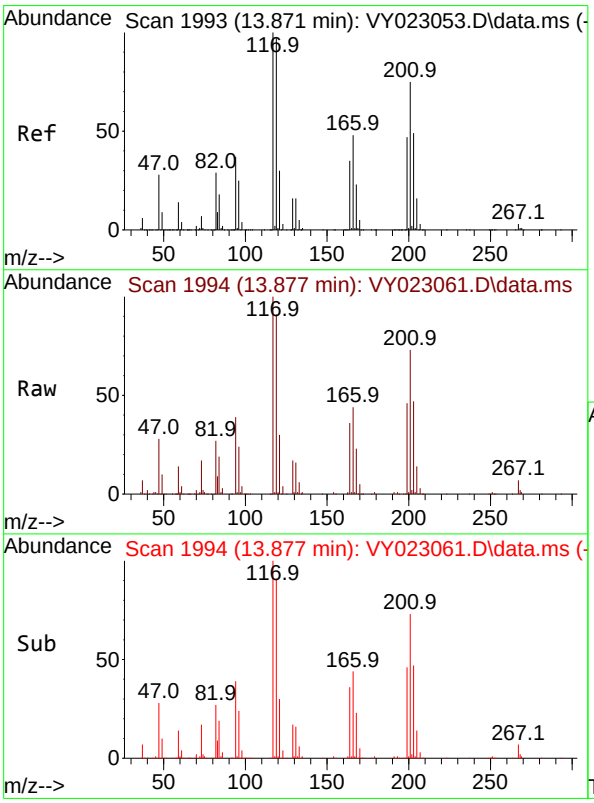
#89
n-Butylbenzene
Concen: 20.823 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion: 91 Resp: 390572

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.9	80.7
134	25.0	13.2	39.5

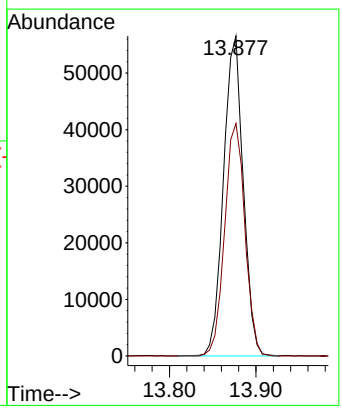


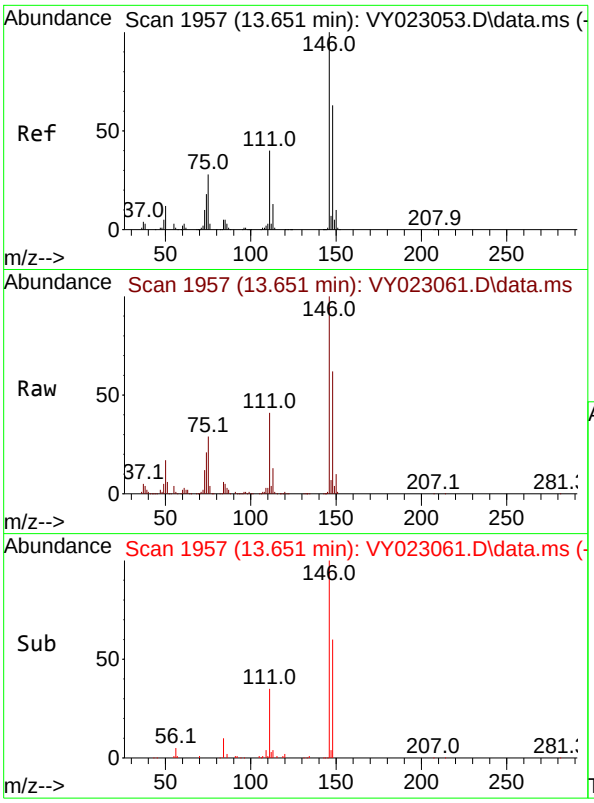


#90
Hexachloroethane
Concen: 21.398 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 89456

Ion	Ratio	Lower	Upper
117	100		
201	74.6	38.4	115.1



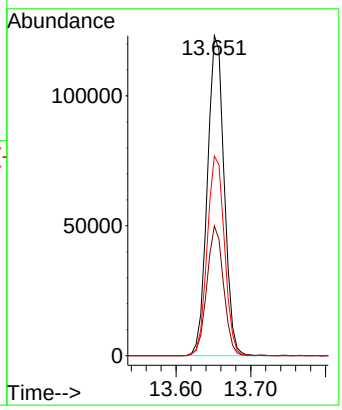


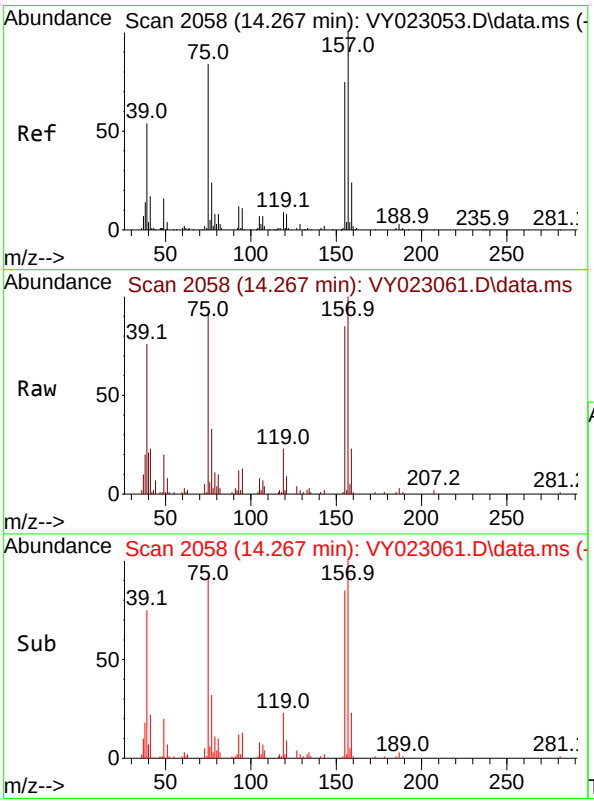
#91
1,2-Dichlorobenzene
Concen: 20.262 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:146 Resp: 191827

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.8
148	64.0	32.2	96.6

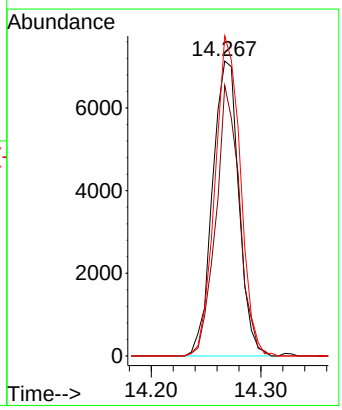


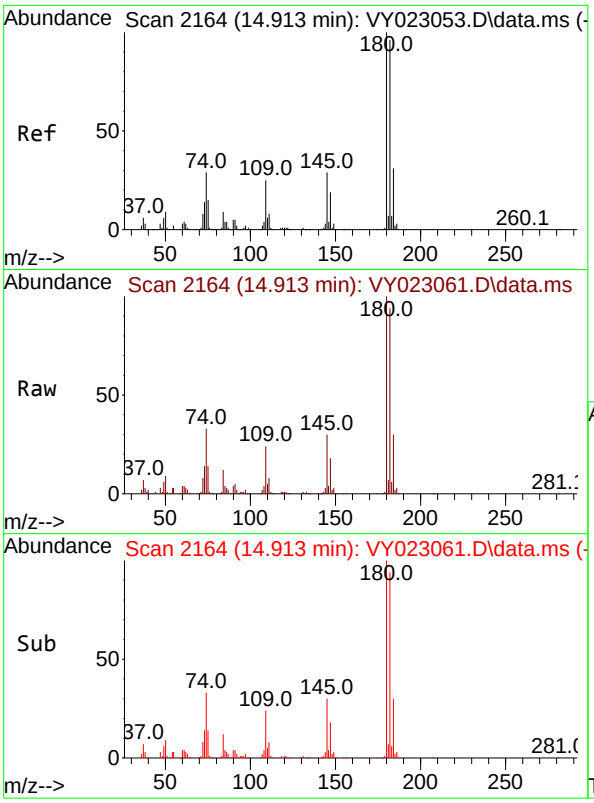


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.477 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 11881

Ion	Ratio	Lower	Upper
75	100		
155	82.7	43.9	131.6
157	105.1	57.2	171.6



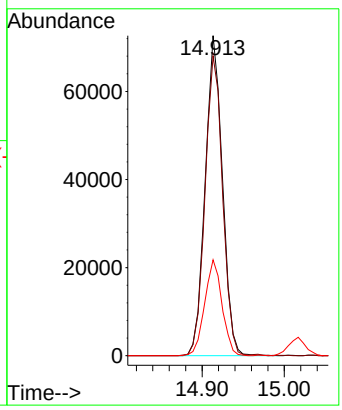


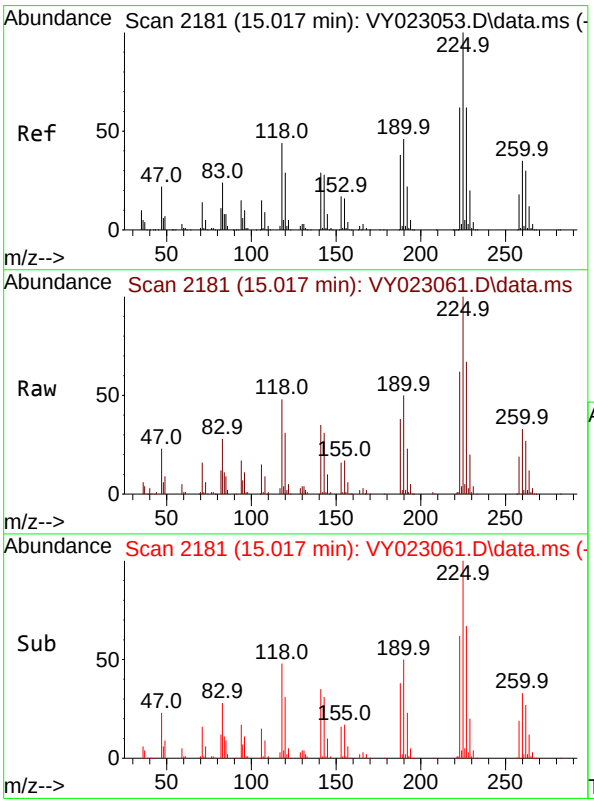
#93
1,2,4-Trichlorobenzene
Concen: 18.915 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:180 Resp: 105900

Ion	Ratio	Lower	Upper
180	100		
182	95.1	46.8	140.4
145	30.1	14.4	43.4

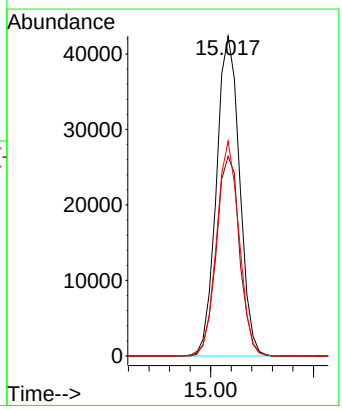


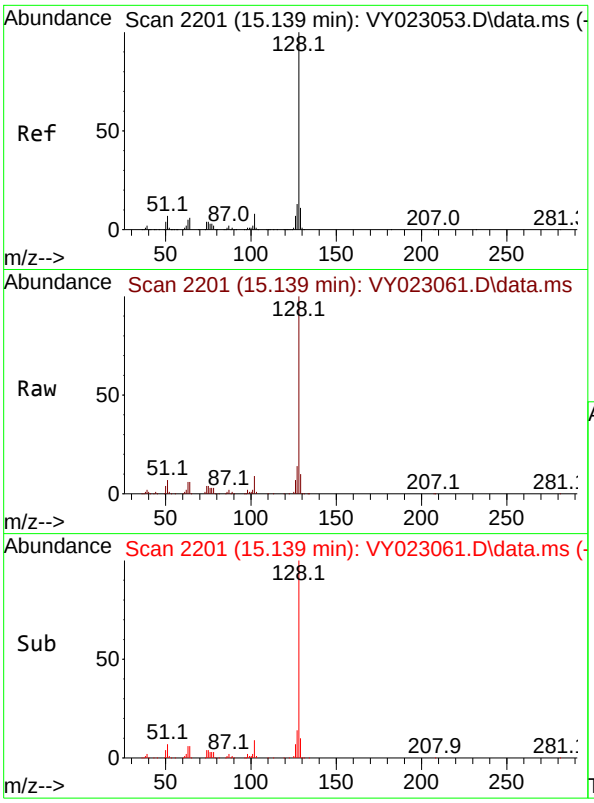


#94
Hexachlorobutadiene
Concen: 20.089 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:225 Resp: 66091

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.3	93.8
227	65.3	31.5	94.5



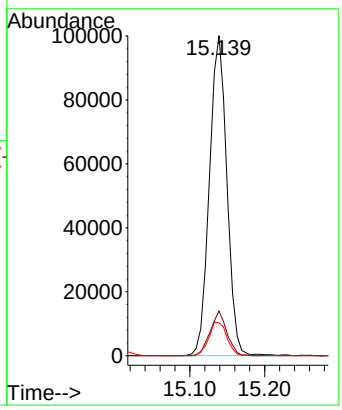


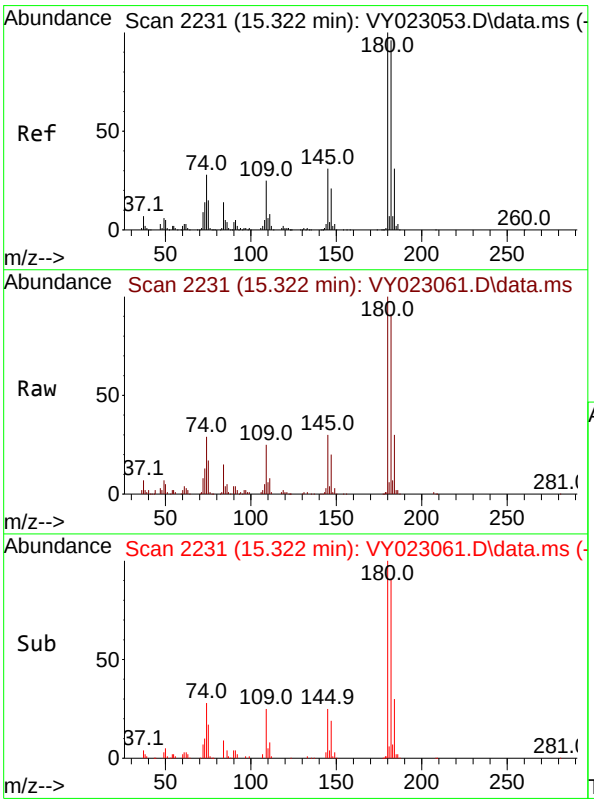
#95
Naphthalene
Concen: 16.980 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Instrument :
MSVOA_Y
ClientSampleId :
VY0813SBS01

Tgt Ion:128 Resp: 162104

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	11.0	9.0	13.4

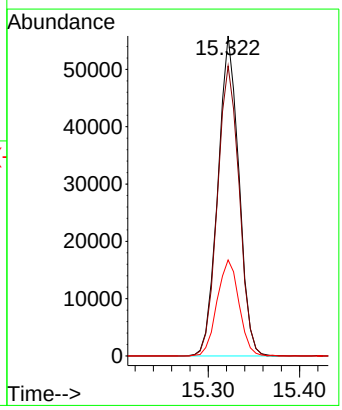




#96
1,2,3-Trichlorobenzene
Concen: 18.463 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:180 Resp: 89070

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.9	143.7
145	31.4	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Quant Time: Aug 14 01:24:42 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

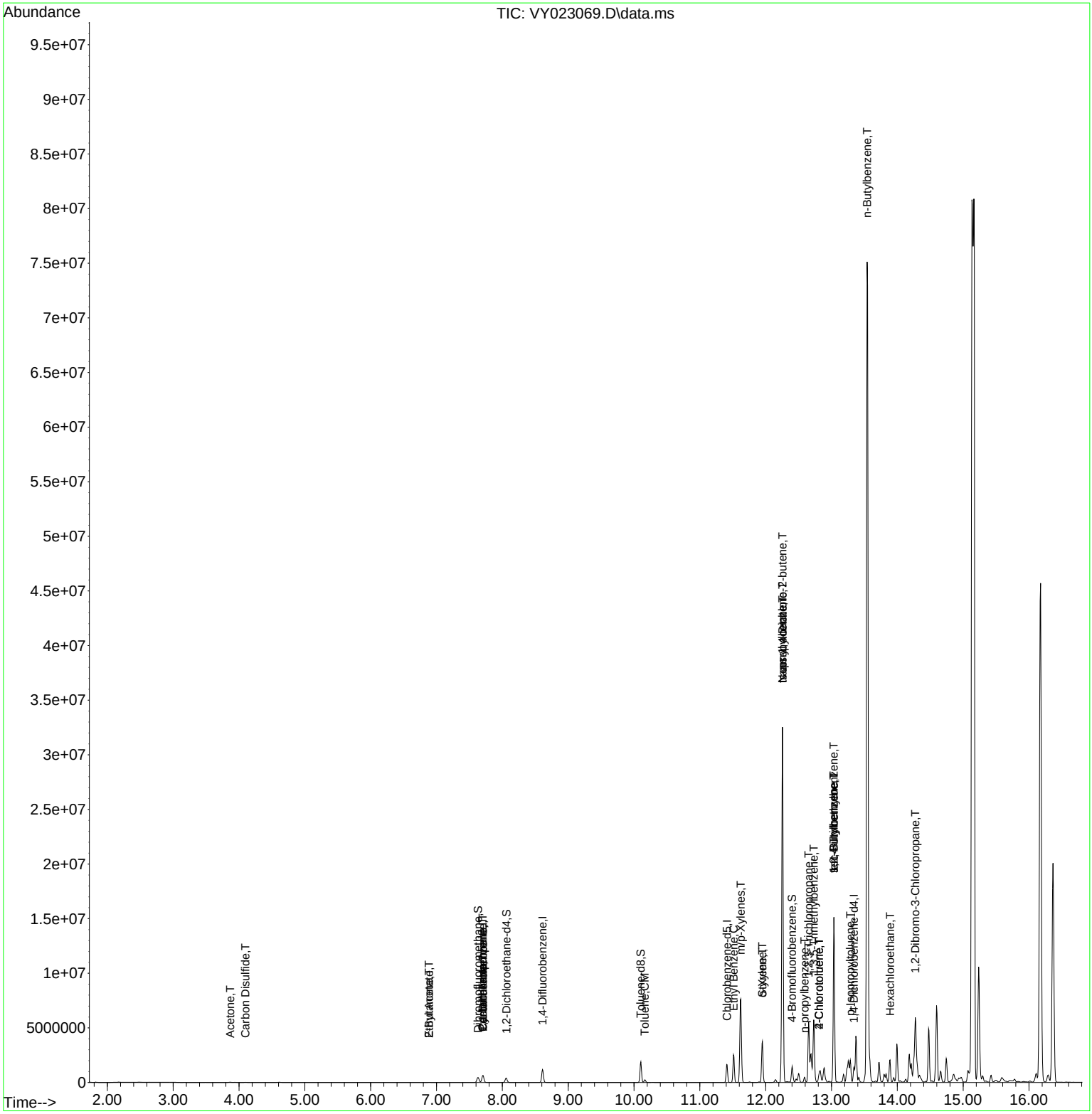
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	499481	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.609	114	998493	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	877177	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	339290	50.000	ug/l	#	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	316941	66.579	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.160%				
35) Dibromofluoromethane	7.628	113	329759	55.193	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.380%				
50) Toluene-d8	10.103	98	1198822	51.362	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.720%				
62) 4-Bromofluorobenzene	12.401	95	378383	50.409	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.820%				
Target Compounds							Qvalue
16) Acetone	3.866	43	50603	49.067	ug/l		97
17) Carbon Disulfide	4.098	76	24835	1.582	ug/l		97
25) 2-Butanone	6.884	43	17580	12.534	ug/l		95
31) Cyclohexane	7.701	56	11278	1.272	ug/l	#	8
36) 1,1-Dichloropropene	7.701	75	39792	4.481	ug/l	#	49
37) Ethyl Acetate	6.884	43	17580	4.713	ug/l	#	68
38) Carbon Tetrachloride	7.701	117	48784	5.058	ug/l	#	17
52) Toluene	10.164	92	104466	6.010	ug/l		100
67) Ethyl Benzene	11.511	91	1711204	52.554	ug/l		99
68) m/p-Xylenes	11.621	106	2334647	183.584	ug/l		99
69) o-Xylene	11.950	106	979527	82.239	ug/l		98
70) Styrene	11.950	104	54628	2.805	ug/l	#	1
73) Isopropylbenzene	12.255	105	2066252	86.285	ug/l		76
74) N-amyl acetate	12.255	43	523882	103.160	ug/l	#	11
76) 1,2,3-Trichloropropane	12.651	75	28026	8.559	ug/l	#	100
78) n-propylbenzene	12.590	91	304969	10.697	ug/l		100
79) 2-Chlorotoluene	12.810	91	64981	3.978	ug/l		77
80) 1,3,5-Trimethylbenzene	12.731	105	2717714	140.425	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.255	75	44097	32.599	ug/l	#	1
82) 4-Chlorotoluene	12.810	91	63624	3.755	ug/l		78
83) tert-Butylbenzene	13.035	119	985298	56.369	ug/l	#	67
84) 1,2,4-Trimethylbenzene	13.035	105	7563336	392.581	ug/l		96
85) sec-Butylbenzene	13.035	105	7563336	294.557	ug/l	#	56
86) p-Isopropyltoluene	13.285	119	1058617	49.669	ug/l	#	78
89) n-Butylbenzene	13.541	91	8872019	453.226	ug/l	#	43
90) Hexachloroethane	13.889	117	103728	23.774	ug/l	#	11
92) 1,2-Dibromo-3-Chloropr...	14.273	75	136619	214.601	ug/l	#	1

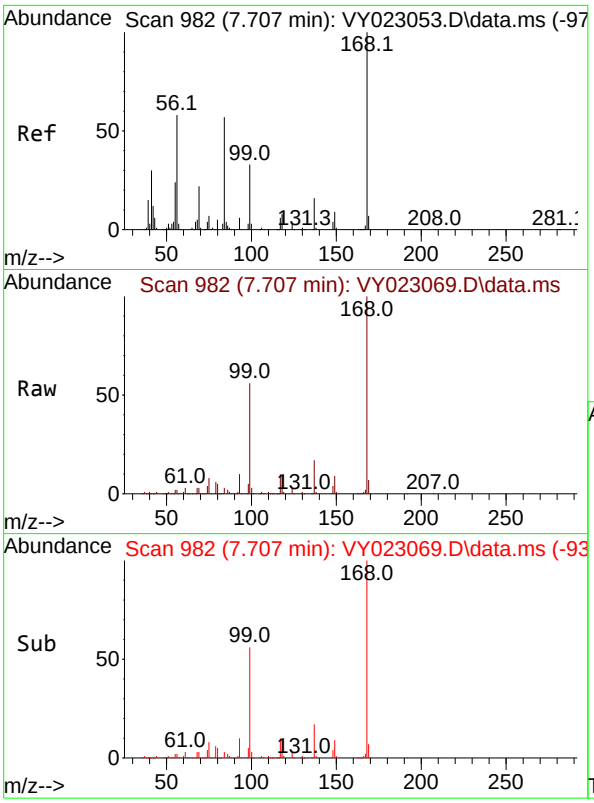
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Quant Time: Aug 14 01:24:42 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



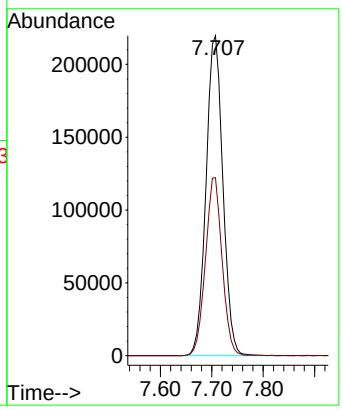


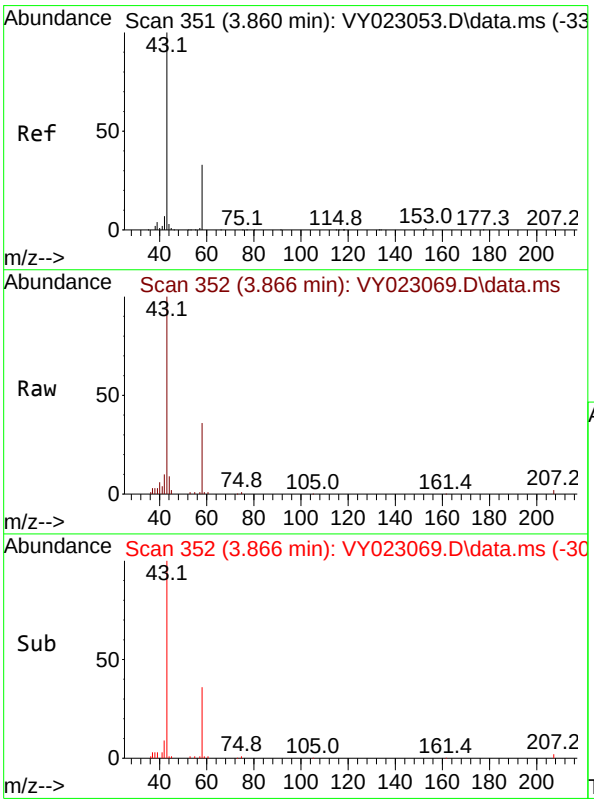
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:168 Resp: 499481

Ion	Ratio	Lower	Upper
168	100		
99	55.6	42.8	64.2

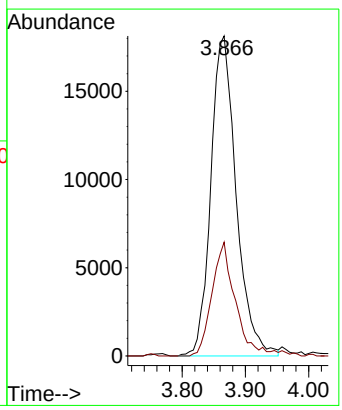


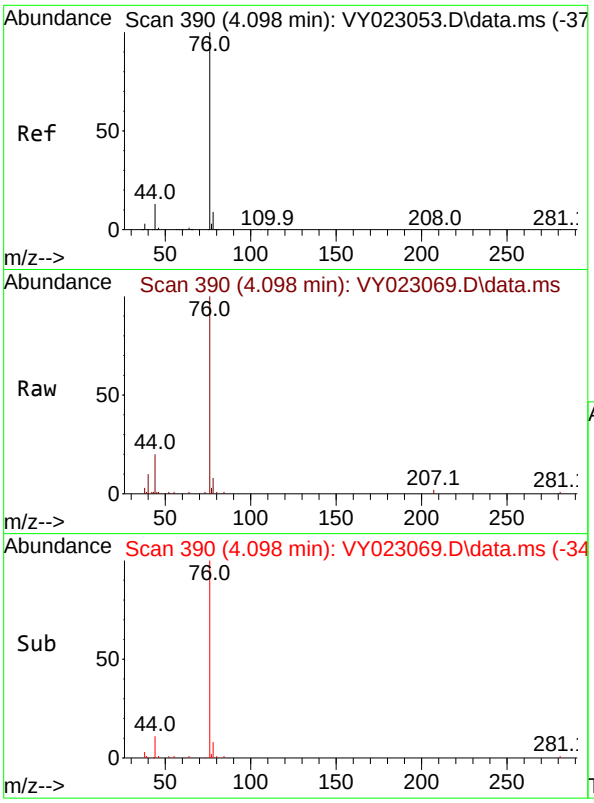


#16
Acetone
Concen: 49.067 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 50603

Ion	Ratio	Lower	Upper
43	100		
58	35.5	27.1	40.7



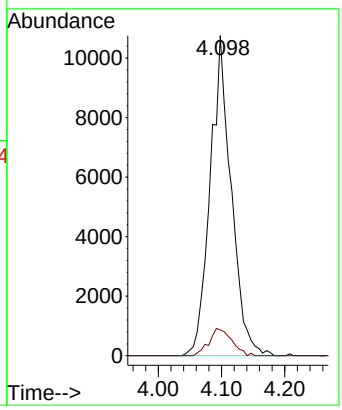


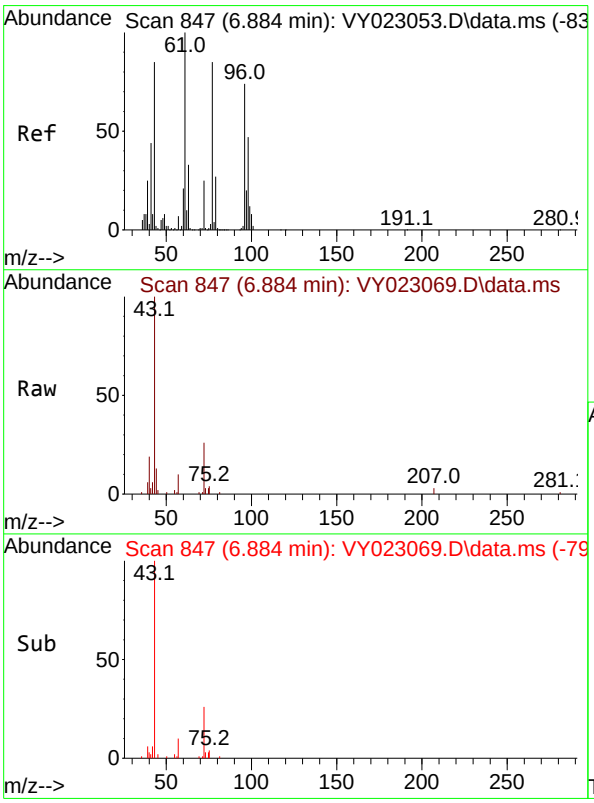
#17
Carbon Disulfide
Concen: 1.582 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 76 Resp: 24835

Ion	Ratio	Lower	Upper
76	100		
78	8.1	7.4	11.2

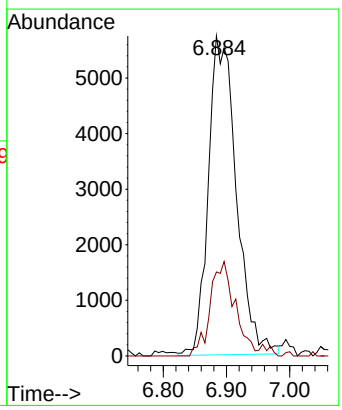


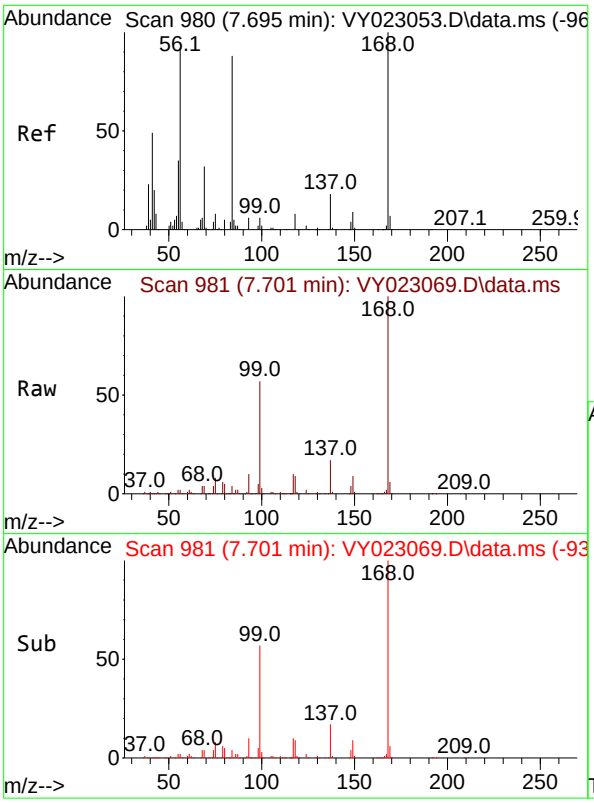


#25
2-Butanone
Concen: 12.534 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580

Ion	Ratio	Lower	Upper
43	100		
72	26.5	23.5	35.3



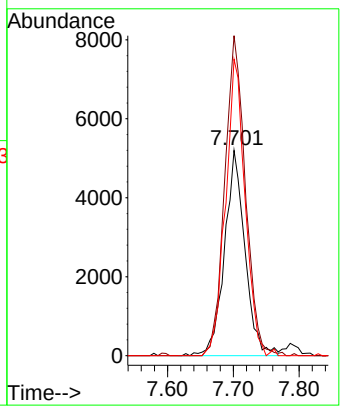


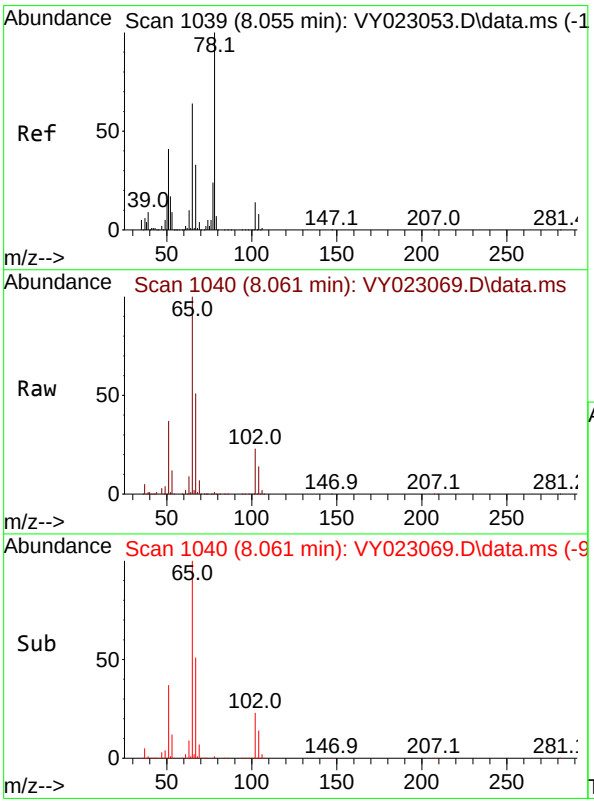
#31
Cyclohexane
Concen: 1.272 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 56 Resp: 11278

Ion	Ratio	Lower	Upper
56	100		
69	155.9	28.2	42.2#
84	144.4	76.6	114.8#

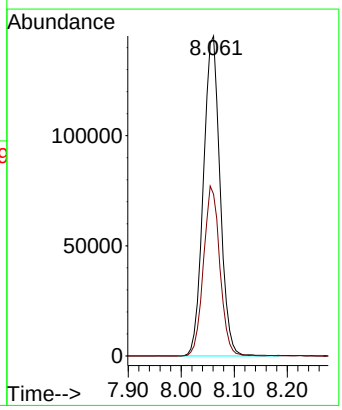


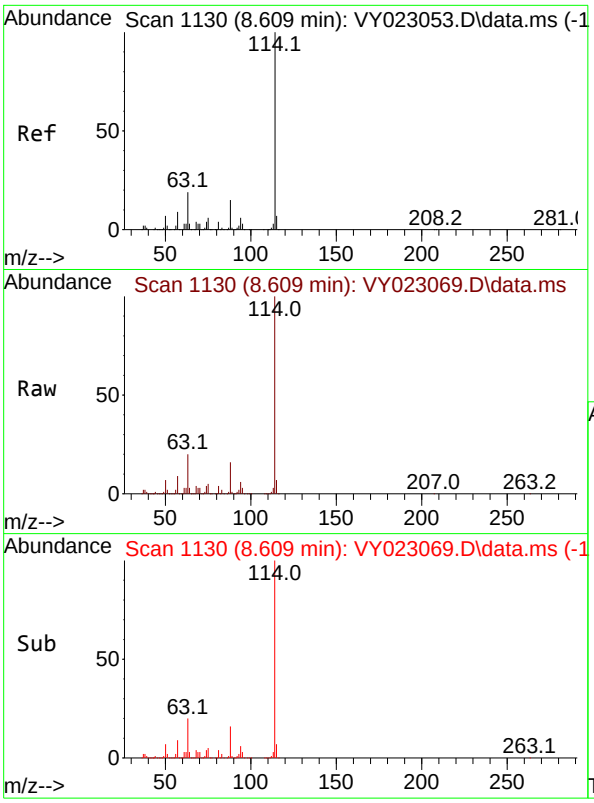


#33
1,2-Dichloroethane-d4
Concen: 66.579 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 65 Resp: 316941

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.8



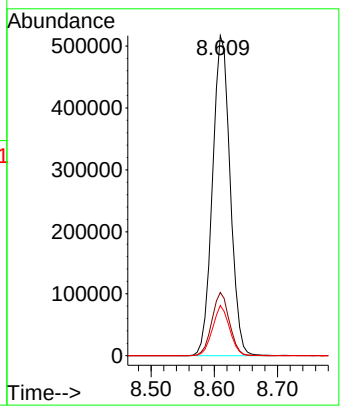


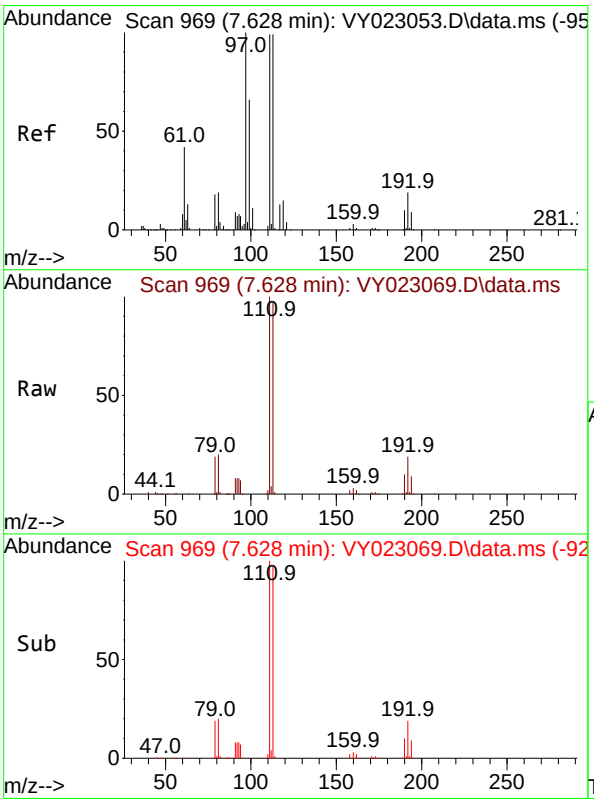
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:114 Resp: 998493

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.4
88	15.7	0.0	30.0

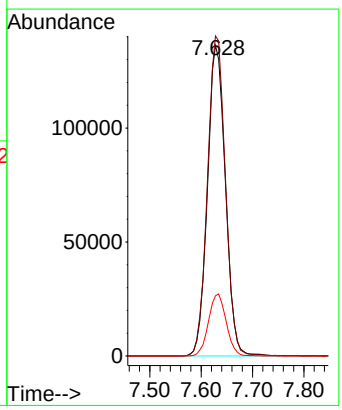


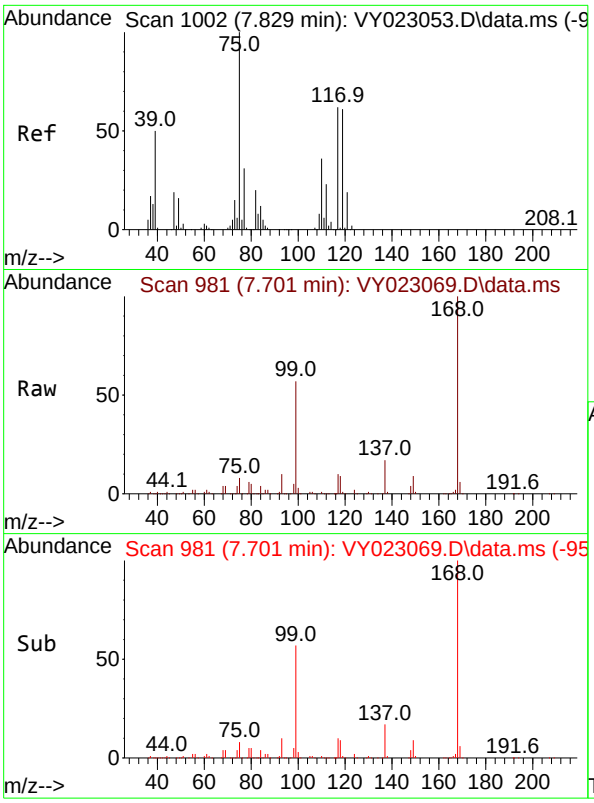


#35
Dibromofluoromethane
Concen: 55.193 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:113 Resp: 329759

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.1	121.7
192	19.7	16.2	24.4



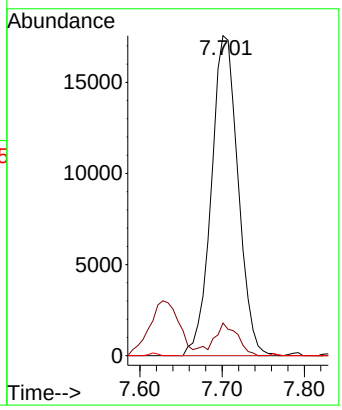


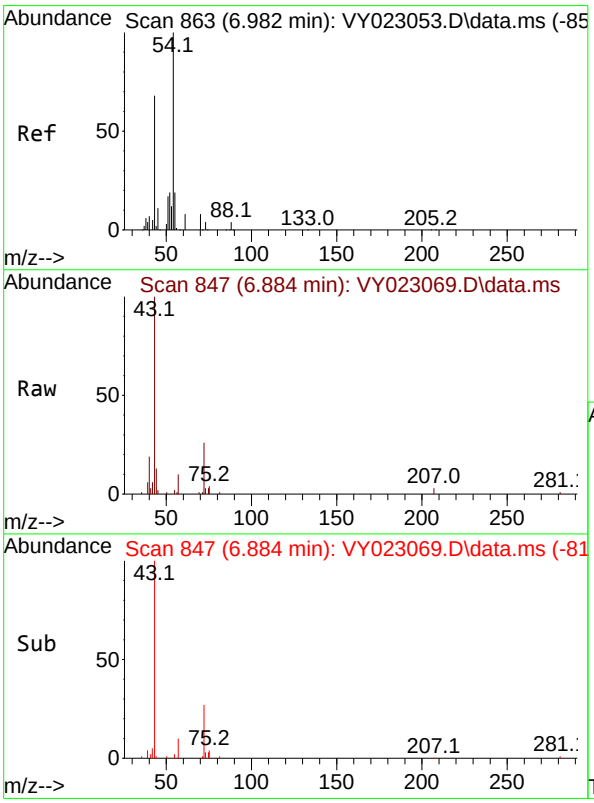
#36
1,1-Dichloropropene
Concen: 4.481 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.128 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 75 Resp: 39792

Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.0	24.6	37.0#

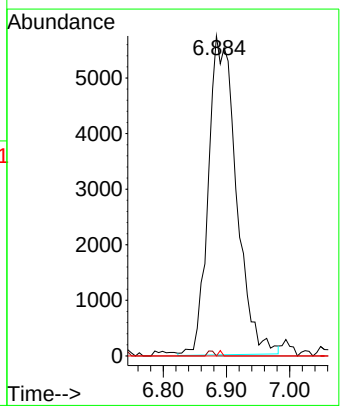


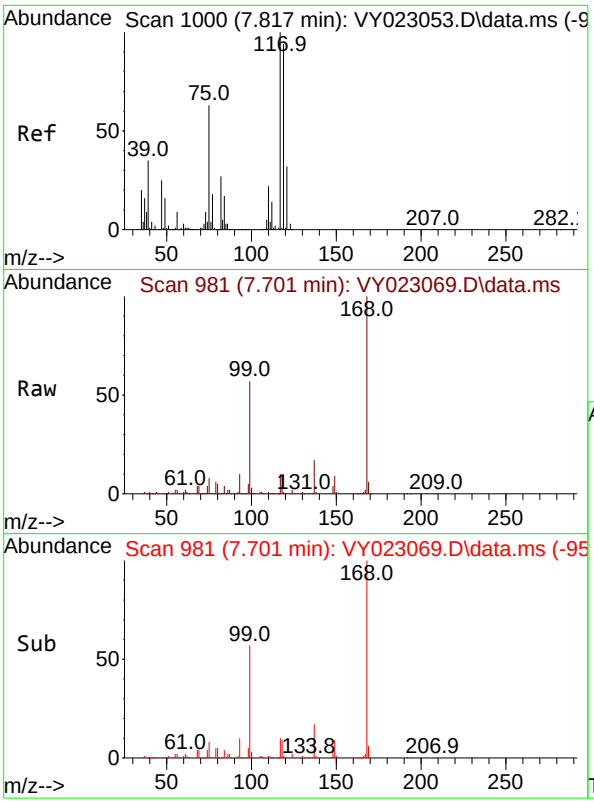


#37
Ethyl Acetate
Concen: 4.713 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.098 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580

Ion	Ratio	Lower	Upper
43	100		
61	0.4	11.9	17.9#
70	0.2	8.8	13.2#



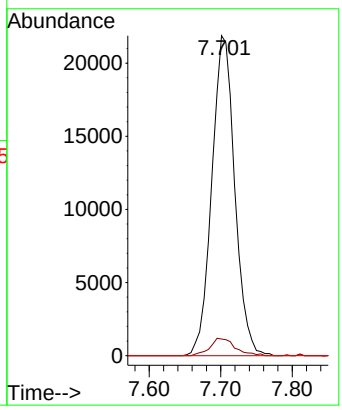


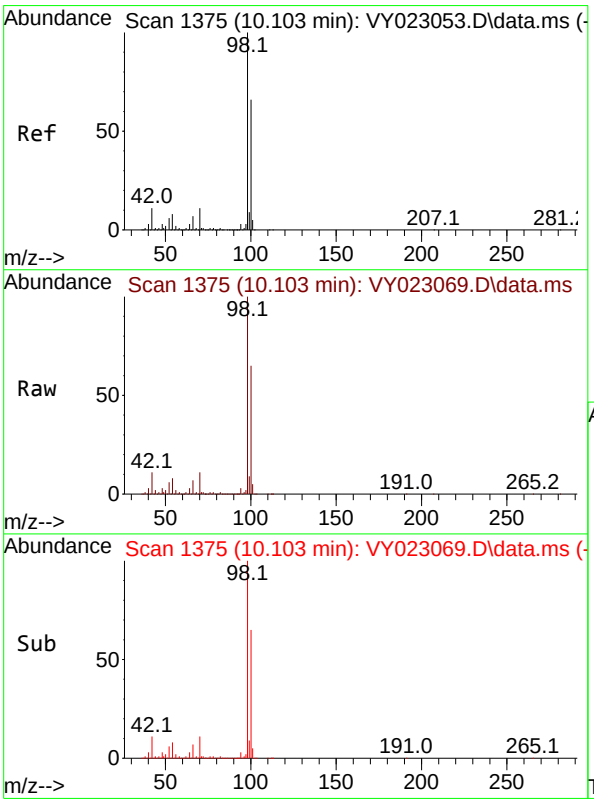
#38
Carbon Tetrachloride
Concen: 5.058 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.116 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:117 Resp: 48784

Ion	Ratio	Lower	Upper
117	100		
119	5.2	75.6	113.4#
121	0.0	25.8	38.8#

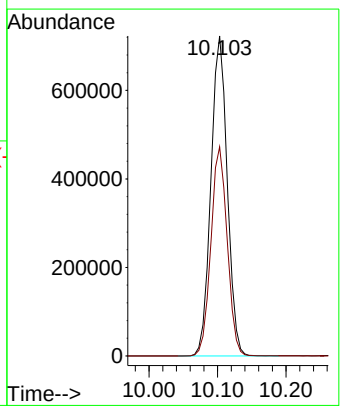


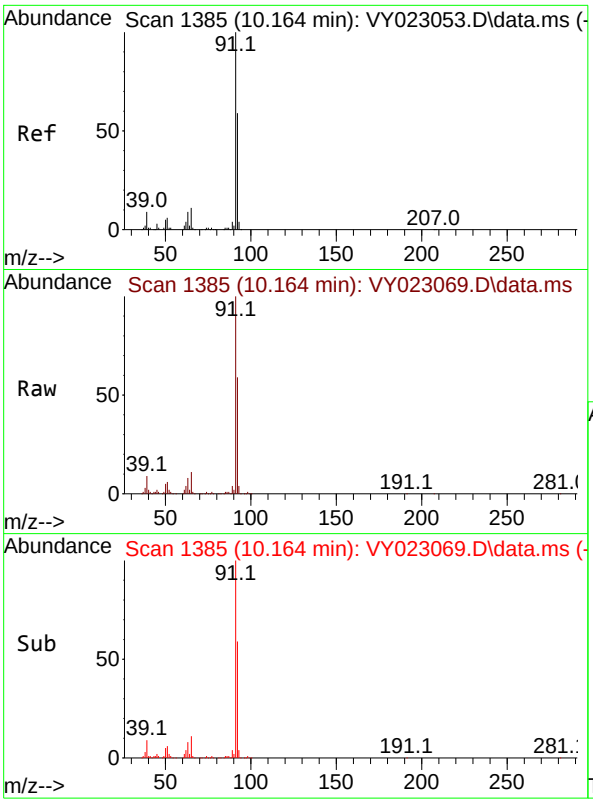


#50
Toluene-d8
Concen: 51.362 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 98 Resp: 1198822

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5



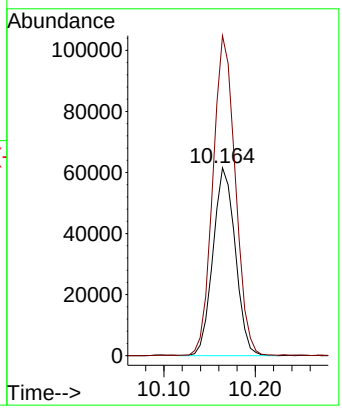


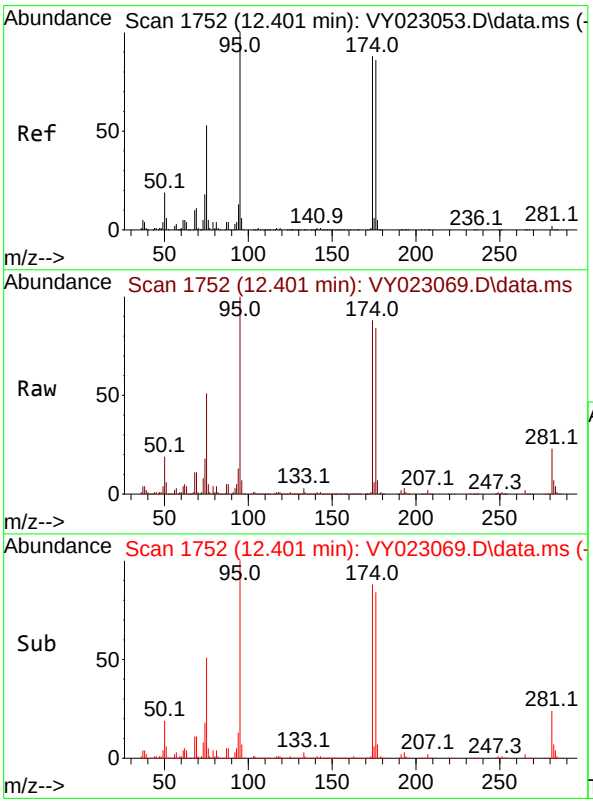
#52
Toluene
Concen: 6.010 ug/l
RT: 10.164 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 92 Resp: 104466

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.4	204.6

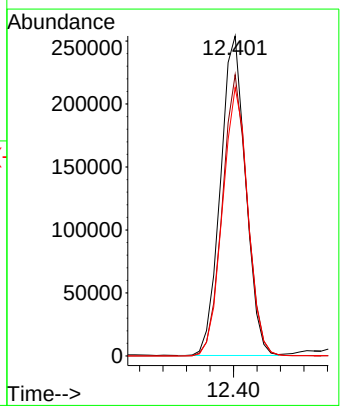


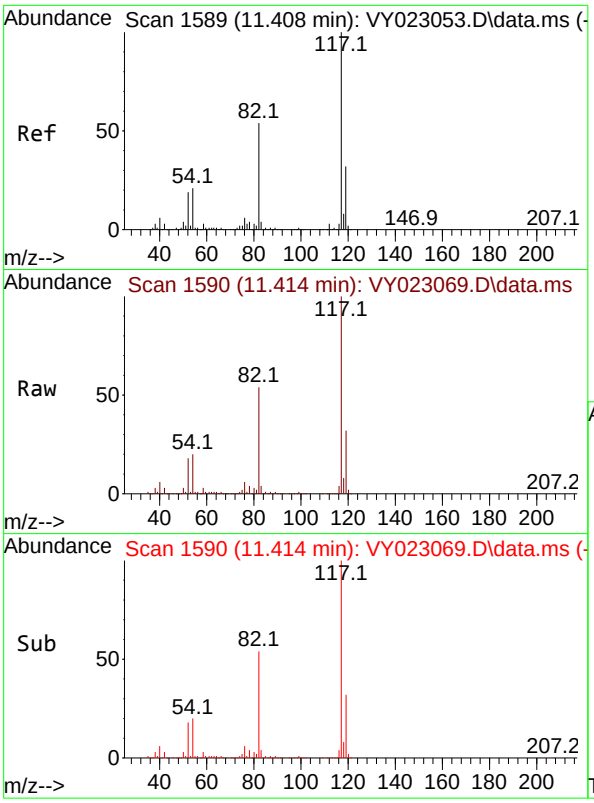


#62
4-Bromofluorobenzene
Concen: 50.409 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 95 Resp: 378383

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	171.6
176	84.7	0.0	167.6



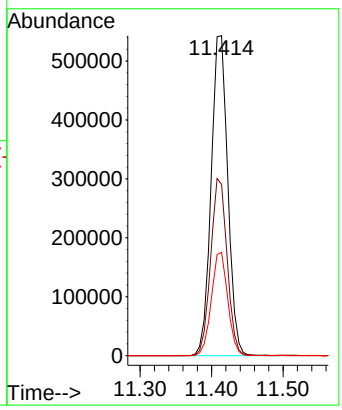


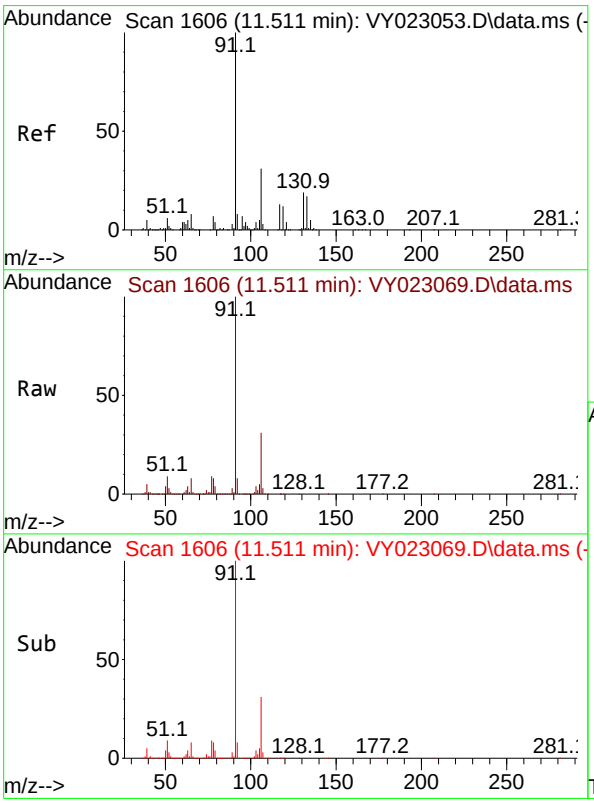
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:117 Resp: 877177

Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.4	65.0
119	32.3	25.6	38.4

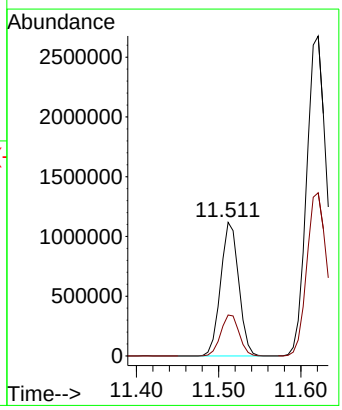


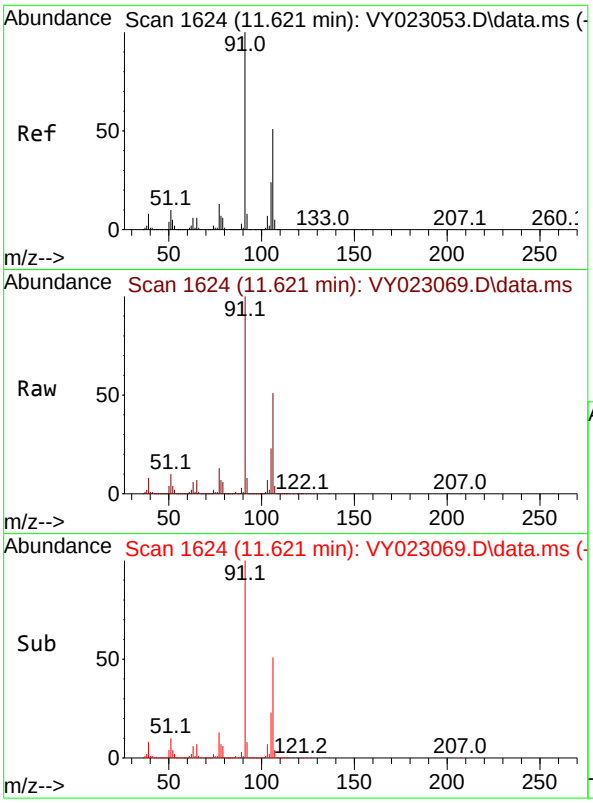


#67
Ethyl Benzene
Concen: 52.554 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 1711204

Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.0	37.4



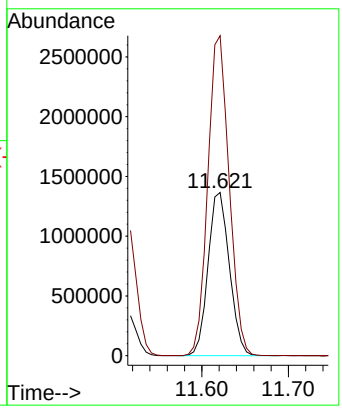


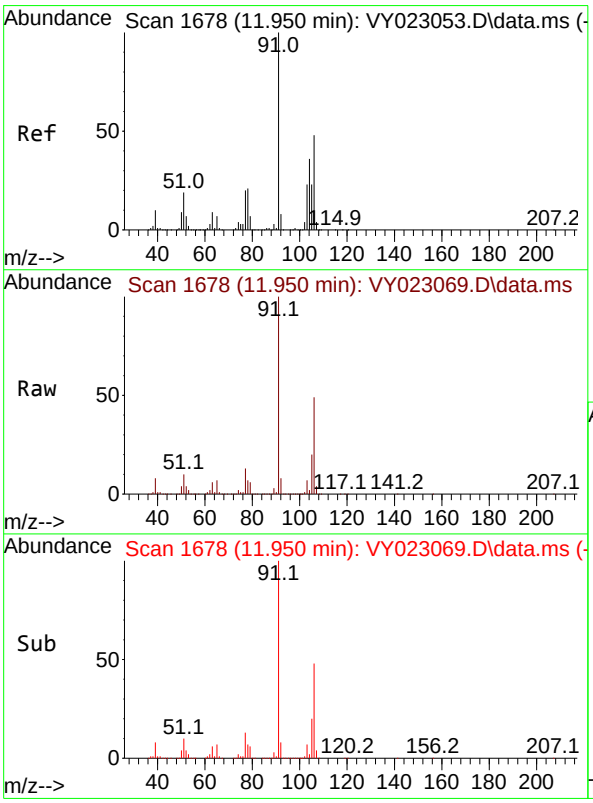
#68
m/p-Xylenes
Concen: 183.584 ug/l
RT: 11.621 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:106 Resp: 2334647

Ion	Ratio	Lower	Upper
106	100		
91	196.2	158.6	238.0

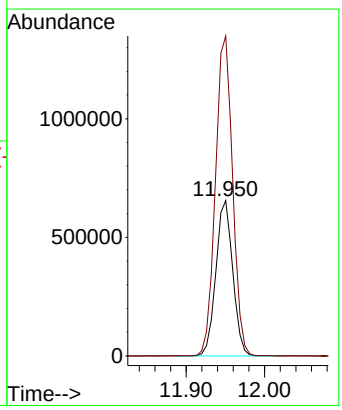


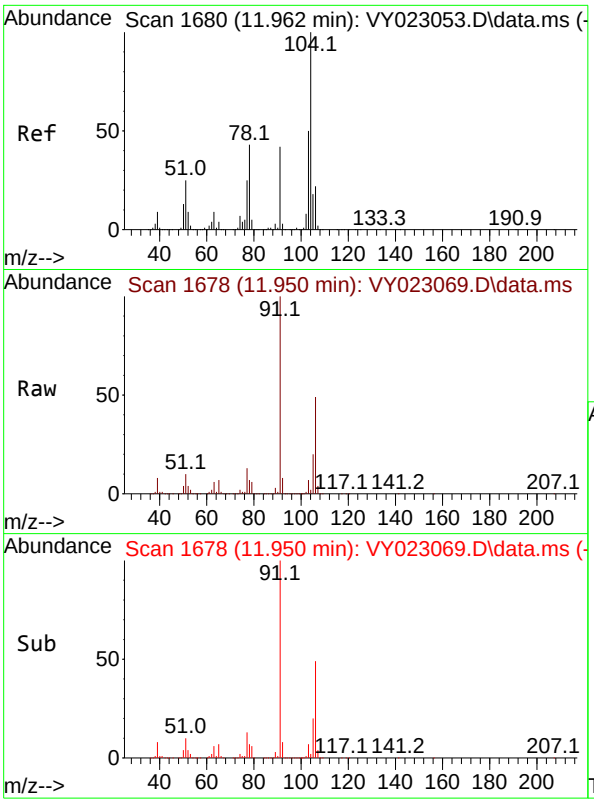


#69
o-Xylene
Concen: 82.239 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:106 Resp: 979527

Ion	Ratio	Lower	Upper
106	100		
91	210.0	103.2	309.4



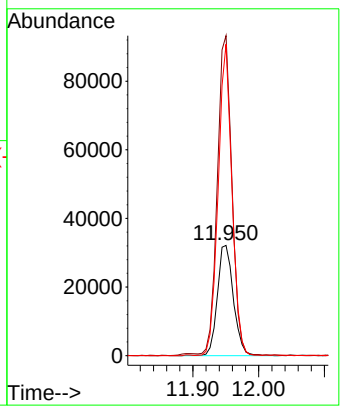


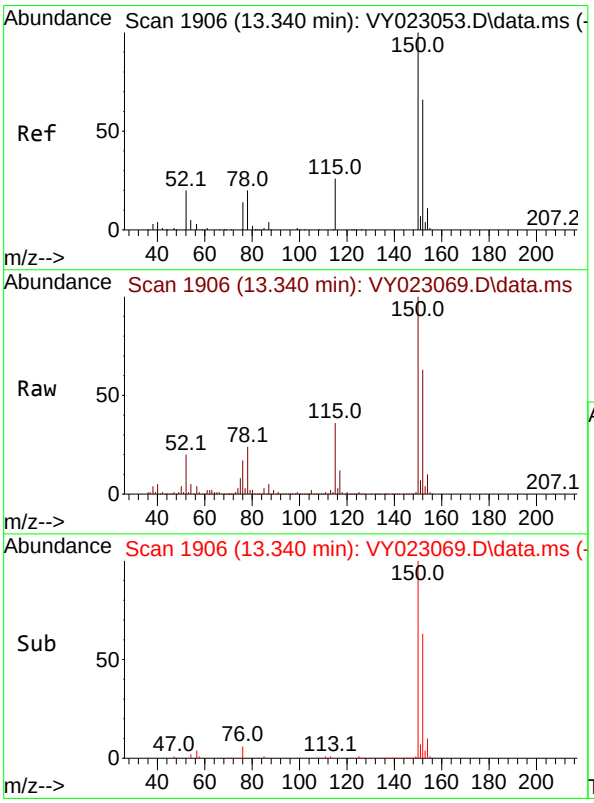
#70
Styrene
Concen: 2.805 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:104 Resp: 54628

Ion	Ratio	Lower	Upper
104	100		
78	262.2	38.5	57.7#
103	242.7	43.7	65.5#

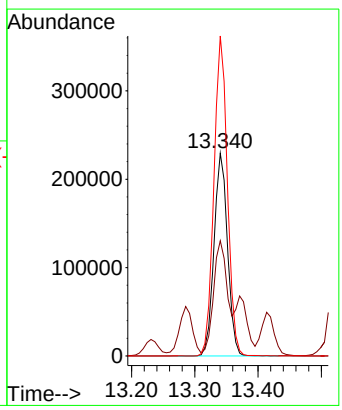


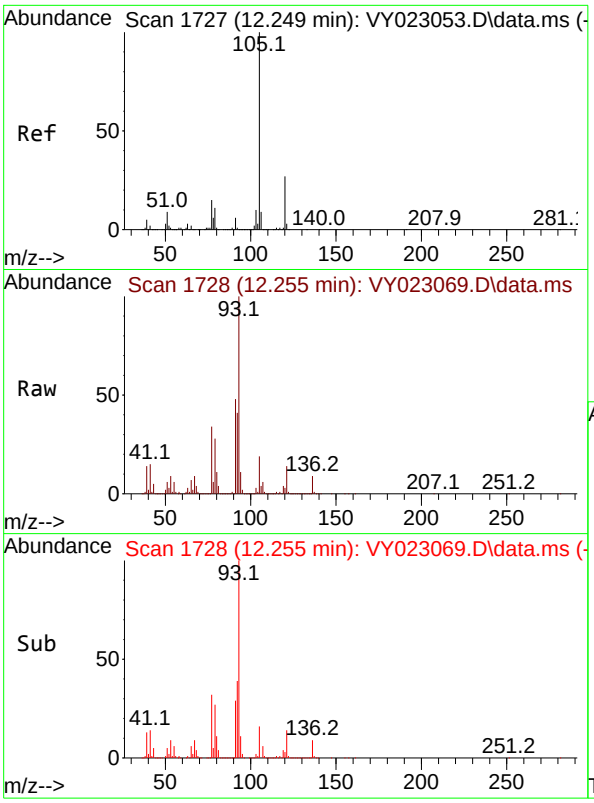


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:152 Resp: 339290

Ion	Ratio	Lower	Upper
152	100		
115	0.0	28.2	84.6#
150	157.3	0.0	348.0



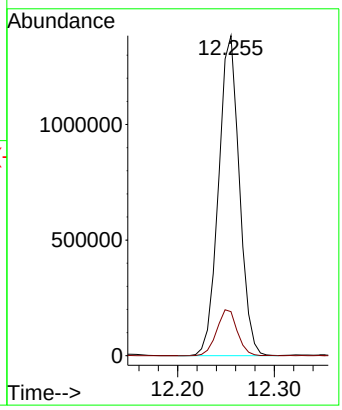


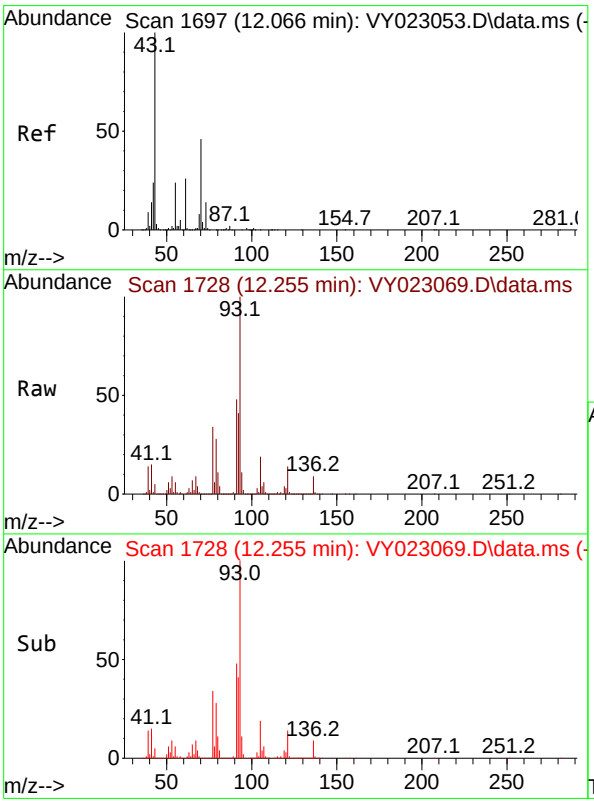
#73
Isopropylbenzene
Concen: 86.285 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:105 Resp: 2066252

Ion	Ratio	Lower	Upper
105	100		
120	14.2	13.4	40.2

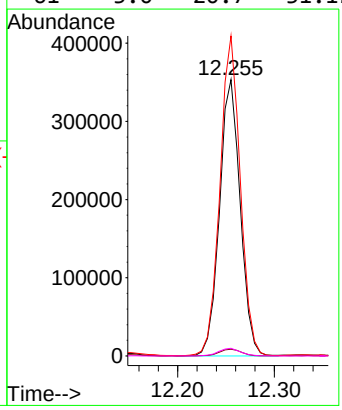


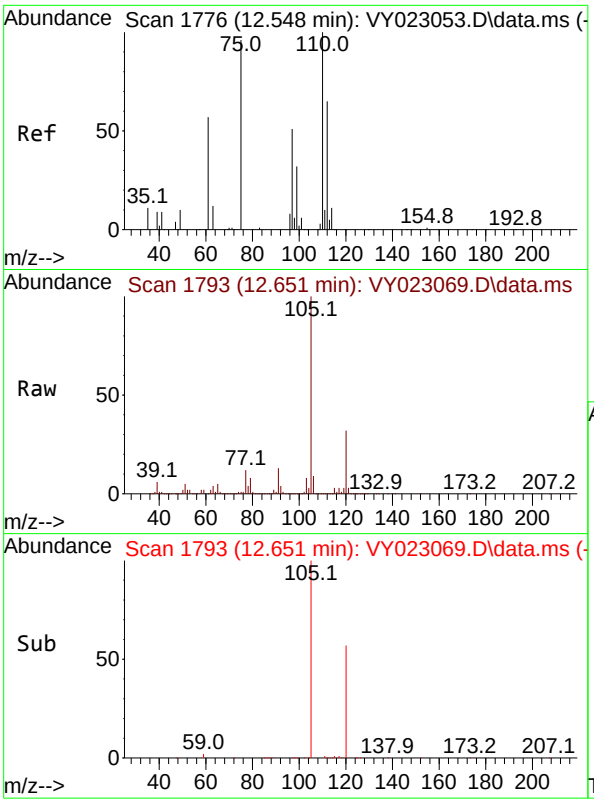


#74
N-amyl acetate
Concen: 103.160 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.189 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 523882

Ion	Ratio	Lower	Upper
43	100		
70	2.6	37.5	56.3#
55	113.6	20.7	31.1#
61	3.0	20.7	31.1#



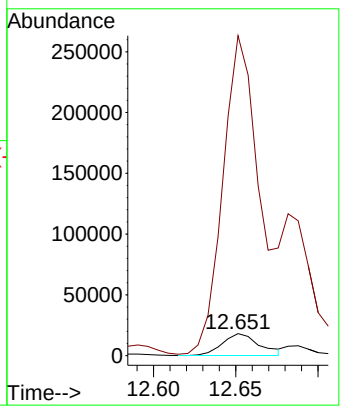


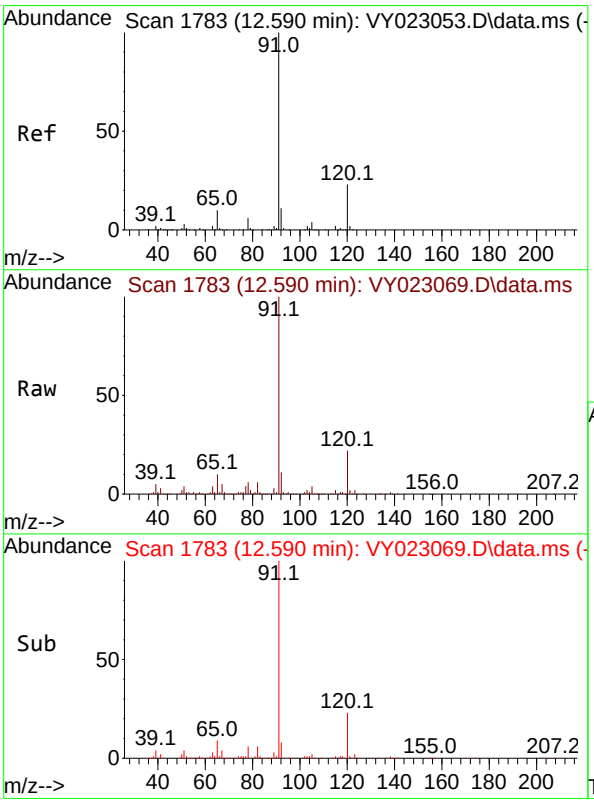
#76
1,2,3-Trichloropropane
Concen: 8.559 ug/l
RT: 12.651 min Scan# 1
Delta R.T. 0.104 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 75 Resp: 28026

Ion	Ratio	Lower	Upper
75	100		
77	1481.7	0.0	0.0#

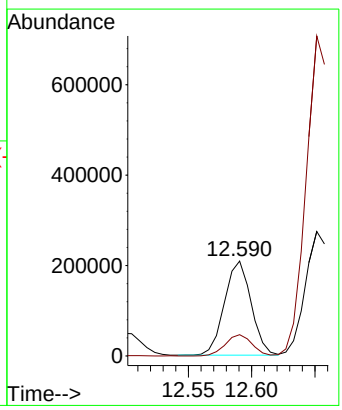


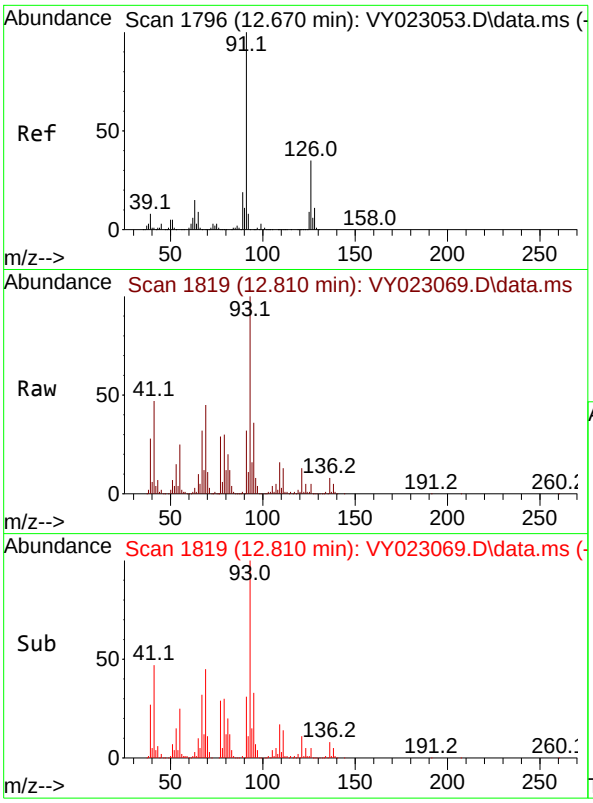


#78
n-propylbenzene
Concen: 10.697 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 304969

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5



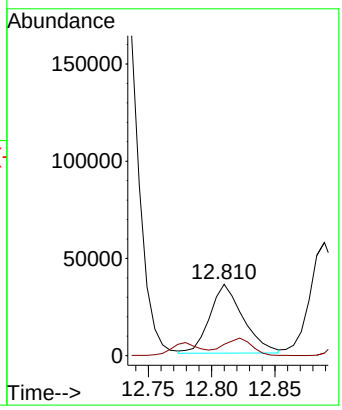


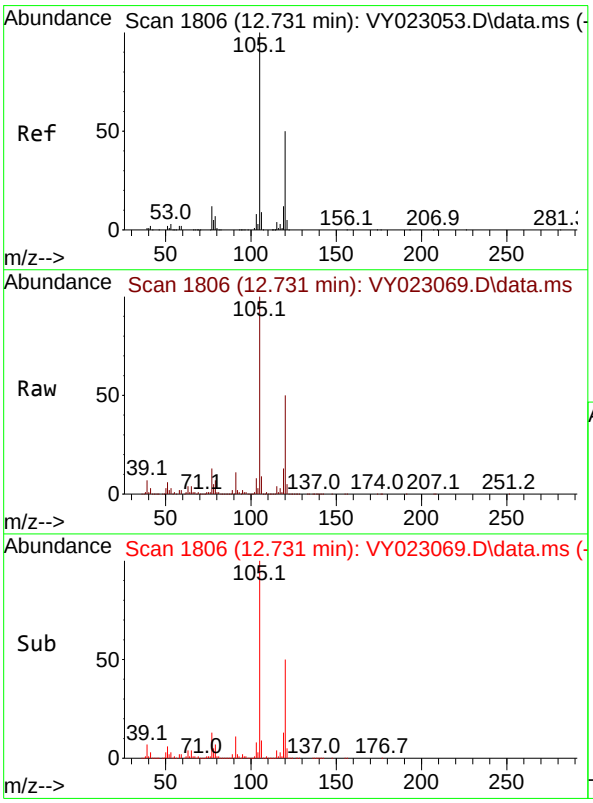
#79
2-Chlorotoluene
Concen: 3.978 ug/l
RT: 12.810 min Scan# 1
Delta R.T. 0.140 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 91 Resp: 64981

Ion	Ratio	Lower	Upper
91	100		
126	21.3	17.4	52.3

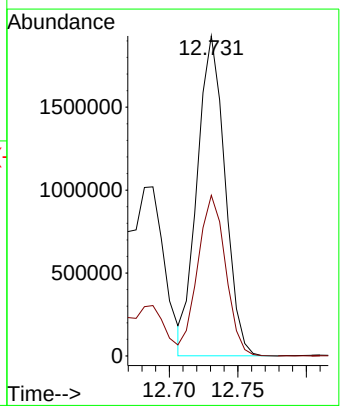


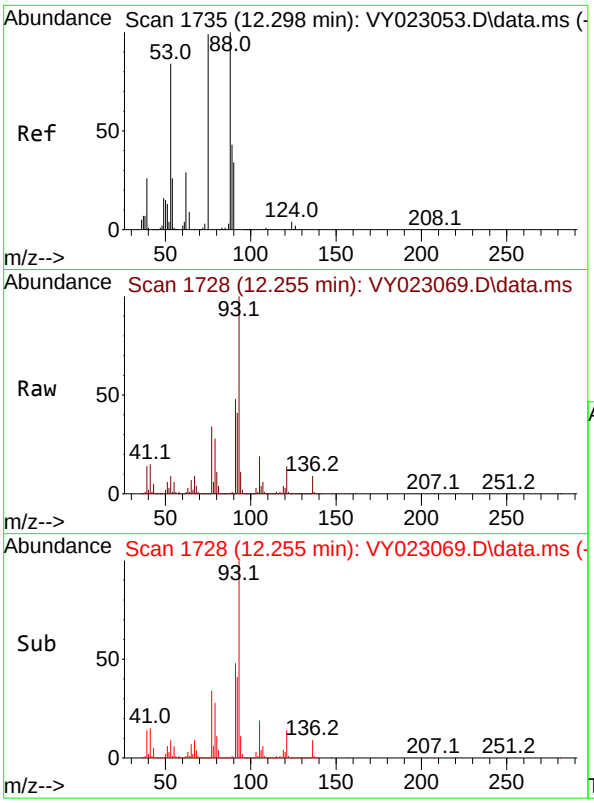


#80
1,3,5-Trimethylbenzene
Concen: 140.425 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 2717714

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.8	74.4



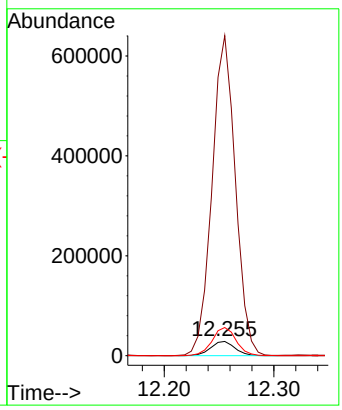


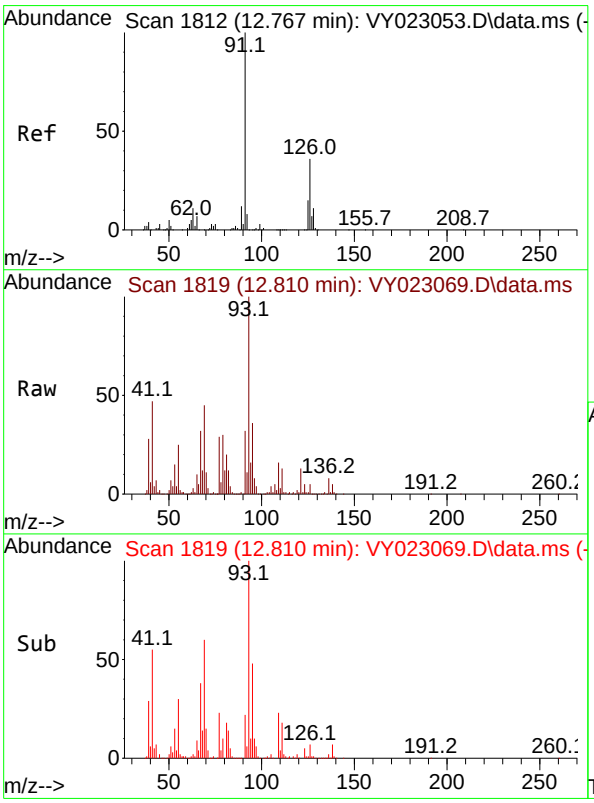
#81
trans-1,4-Dichloro-2-butene
Concen: 32.599 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 75 Resp: 44097

Ion	Ratio	Lower	Upper
75	100		
53	2150.2	70.8	106.2#
89	195.1	38.1	57.1#

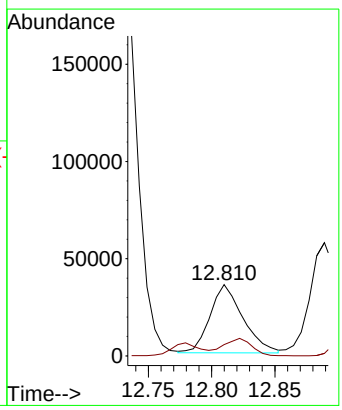


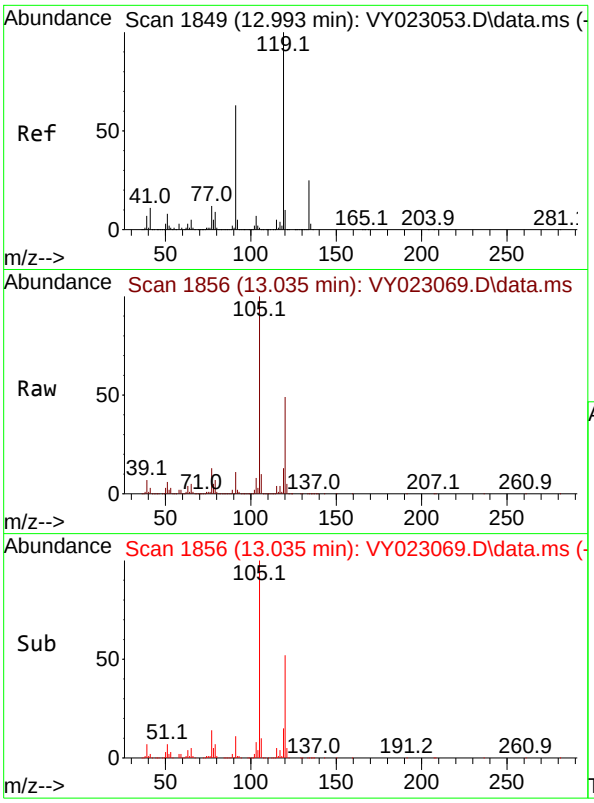


#82
4-Chlorotoluene
Concen: 3.755 ug/l
RT: 12.810 min Scan# 1819
Delta R.T. 0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 63624

Ion	Ratio	Lower	Upper
91	100		
126	21.7	17.3	52.0



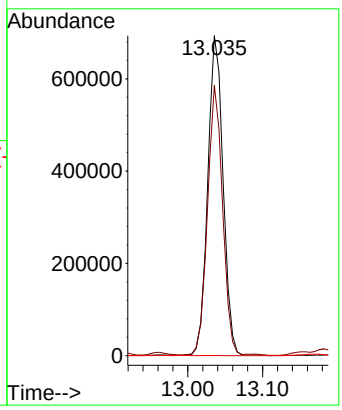


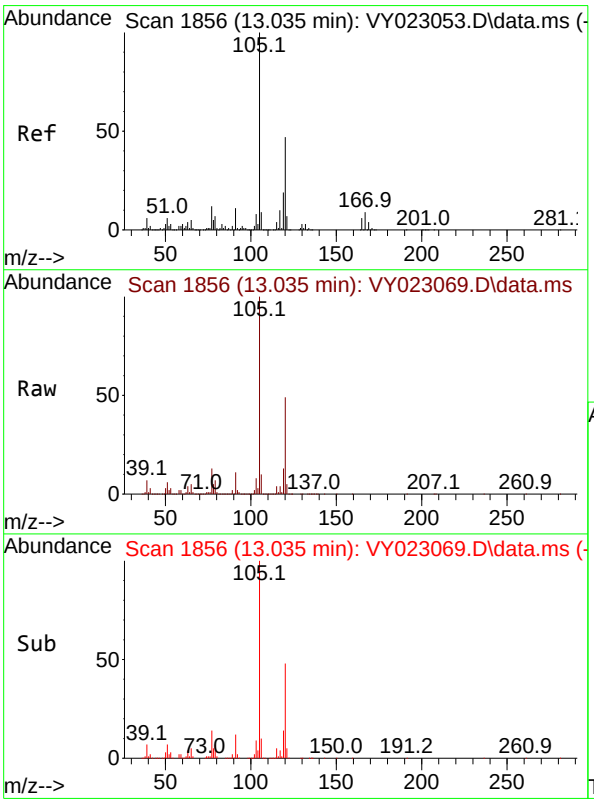
#83
tert-Butylbenzene
Concen: 56.369 ug/l
RT: 13.035 min Scan# 1
Delta R.T. 0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:119 Resp: 985298

Ion	Ratio	Lower	Upper
119	100		
91	82.8	31.6	94.8
134	0.0	12.9	38.7#

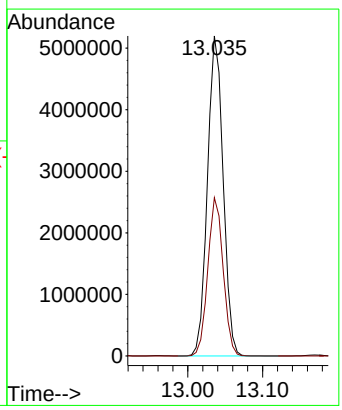


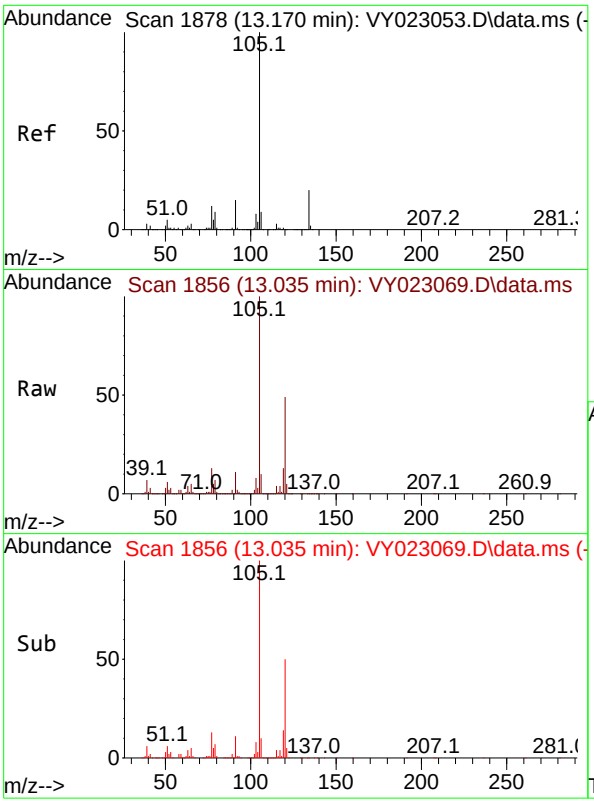


#84
1,2,4-Trimethylbenzene
Concen: 392.581 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 7563336

Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.0	69.0



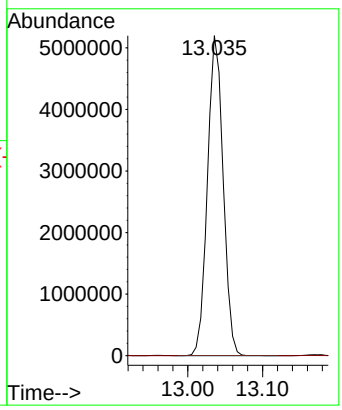


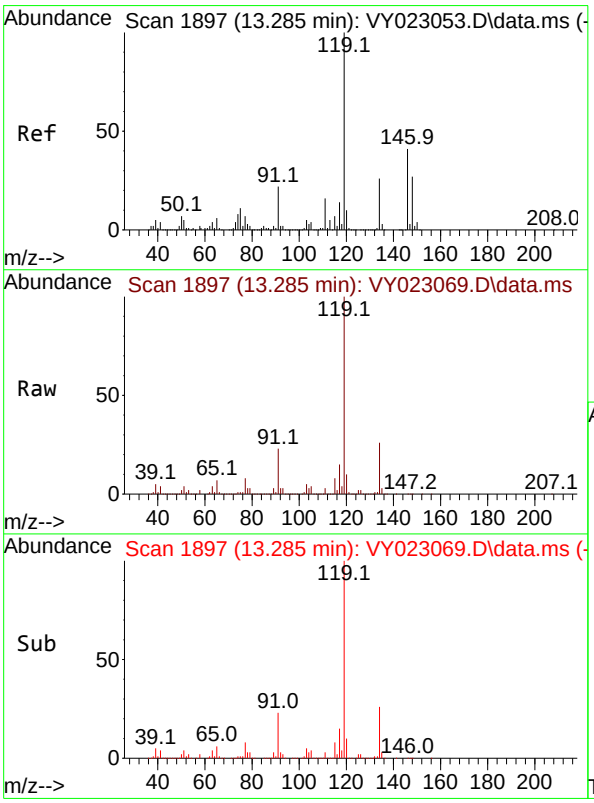
#85
sec-Butylbenzene
Concen: 294.557 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.134 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion:105 Resp: 7563336

Ion	Ratio	Lower	Upper
105	100		
134	0.0	10.2	30.4#

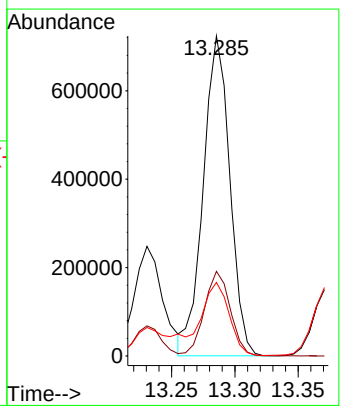


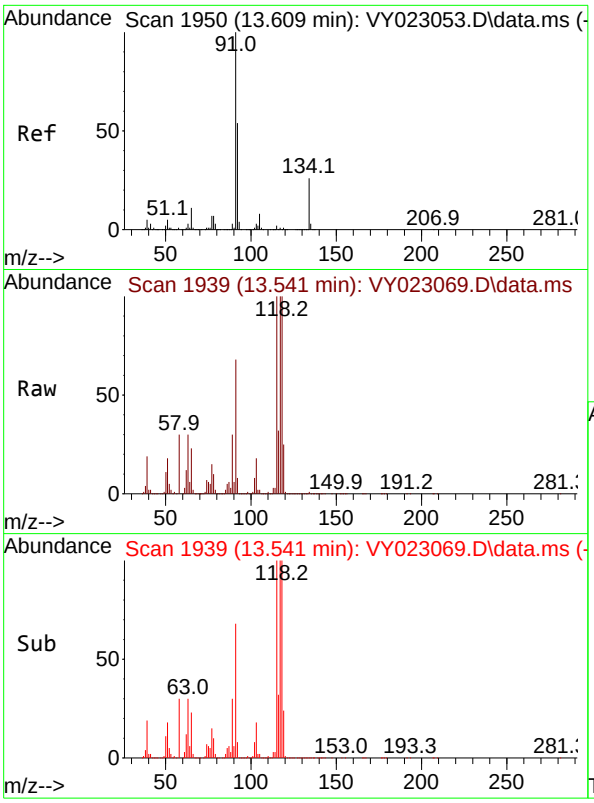


#86
p-Isopropyltoluene
Concen: 49.669 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:119 Resp: 1058617

Ion	Ratio	Lower	Upper
119	100		
134	25.8	13.2	39.6
91	0.0	11.3	33.8#



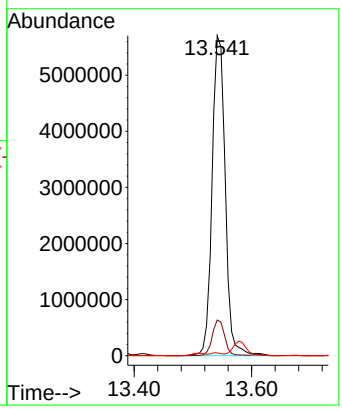


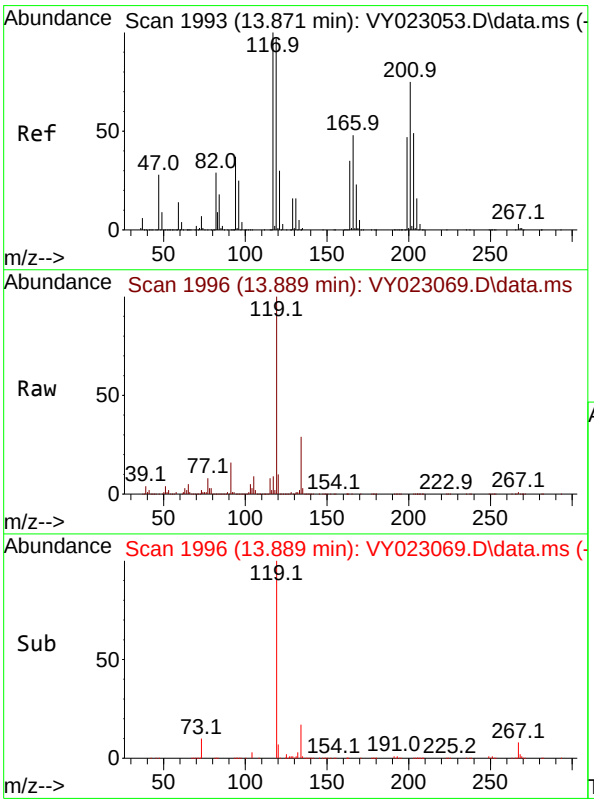
#89
n-Butylbenzene
Concen: 453.226 ug/l
RT: 13.541 min Scan# 1
Delta R.T. -0.067 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 91 Resp: 8872019

Ion	Ratio	Lower	Upper
91	100		
92	10.6	26.9	80.7#
134	0.8	13.2	39.5#

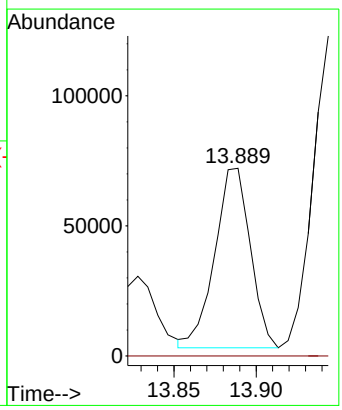


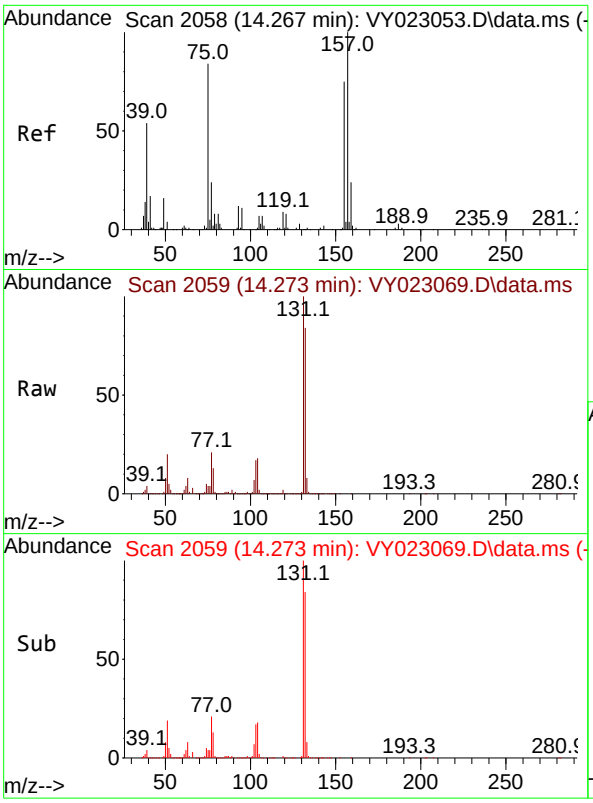


#90
Hexachloroethane
Concen: 23.774 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.018 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:117 Resp: 103728

Ion	Ratio	Lower	Upper
117	100		
201	0.0	38.4	115.1#



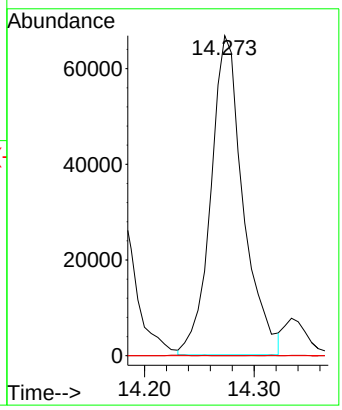


#92
1,2-Dibromo-3-Chloropropane
Concen: 214.601 ug/l
RT: 14.273 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Instrument :
MSVOA_Y
ClientSampleId :
11M-N

Tgt Ion: 75 Resp: 136619

Ion	Ratio	Lower	Upper
75	100		
155	0.0	43.9	131.6#
157	0.0	57.2	171.6#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 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	442938	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	730611	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	653170	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	337955	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	217167	51.443	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.880%			
35) Dibromofluoromethane	7.628	113	218038	49.874	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.740%			
50) Toluene-d8	10.103	98	848458	49.680	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.360%			
62) 4-Bromofluorobenzene	12.401	95	277110	50.453	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	141385	39.105	ug/l	97
3) Chloromethane	2.068	50	301762	51.531	ug/l	97
4) Vinyl Chloride	2.202	62	376058	51.951	ug/l	98
5) Bromomethane	2.592	94	302117	55.884	ug/l	99
6) Chloroethane	2.732	64	263860	54.827	ug/l	99
7) Trichlorofluoromethane	3.049	101	418963	47.599	ug/l	98
8) Diethyl Ether	3.458	74	110091	47.275	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.811	101	201980	46.513	ug/l	100
10) Methyl Iodide	4.000	142	222876	47.564	ug/l	98
11) Tert butyl alcohol	4.860	59	63163	218.366	ug/l	100
12) 1,1-Dichloroethene	3.787	96	201251	47.150	ug/l	96
13) Acrolein	3.653	56	74262	175.306	ug/l	96
14) Allyl chloride	4.378	41	299858	47.744	ug/l	99
15) Acrylonitrile	5.055	53	229299	242.199	ug/l	99
16) Acetone	3.872	43	181474	198.426	ug/l	95
17) Carbon Disulfide	4.104	76	659370	47.377	ug/l	98
18) Methyl Acetate	4.385	43	144547	53.111	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	540452	48.863	ug/l	98
20) Methylene Chloride	4.610	84	245813	51.824	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	239199	49.867	ug/l	98
22) Diisopropyl ether	6.018	45	695381	50.952	ug/l	98
23) Vinyl Acetate	5.957	43	1789905	237.183	ug/l	100
24) 1,1-Dichloroethane	5.909	63	424330	50.854	ug/l	100
25) 2-Butanone	6.890	43	279864	224.999	ug/l	99
26) 2,2-Dichloropropane	6.884	77	314878	43.733	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	280376	50.561	ug/l	98
28) Bromochloromethane	7.244	49	174333	52.662	ug/l	97
29) Tetrahydrofuran	7.256	42	183892	238.509	ug/l	98
30) Chloroform	7.421	83	441927	51.354	ug/l	98
31) Cyclohexane	7.701	56	356707	45.365	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	376634	49.325	ug/l	99
36) 1,1-Dichloropropene	7.835	75	308332	47.457	ug/l	99
37) Ethyl Acetate	6.982	43	121535	44.531	ug/l	100
38) Carbon Tetrachloride	7.817	117	333012	47.191	ug/l	98
39) Methylcyclohexane	9.103	83	397504	46.461	ug/l	99
40) Benzene	8.079	78	984401	49.159	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 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	68628	43.571	ug/l		91
42) 1,2-Dichloroethane	8.158	62	256723	49.294	ug/l		99
43) Isopropyl Acetate	8.195	43	254100	46.064	ug/l		98
44) Trichloroethene	8.859	130	247693	47.865	ug/l		98
45) 1,2-Dichloropropane	9.140	63	231080	50.153	ug/l		100
46) Dibromomethane	9.225	93	131895	49.874	ug/l		96
47) Bromodichloromethane	9.420	83	337254	49.561	ug/l		98
48) Methyl methacrylate	9.219	41	122447	46.388	ug/l		96
49) 1,4-Dioxane	9.225	88	29363	946.941	ug/l		95
51) 4-Methyl-2-Pentanone	9.993	43	670681	235.707	ug/l		99
52) Toluene	10.164	92	634517	49.890	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	292128	47.408	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	348886	47.881	ug/l		99
55) 1,1,2-Trichloroethane	10.566	97	171270	48.399	ug/l		99
56) Ethyl methacrylate	10.438	69	218091	48.164	ug/l		98
57) 1,3-Dichloropropane	10.713	76	294300	49.039	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	563277	263.718	ug/l		100
59) 2-Hexanone	10.755	43	444743	229.542	ug/l		99
60) Dibromochloromethane	10.908	129	228588	48.956	ug/l		99
61) 1,2-Dibromoethane	11.011	107	162363	48.817	ug/l		98
64) Tetrachloroethene	10.646	164	288562	49.476	ug/l		99
65) Chlorobenzene	11.438	112	684648	48.595	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	232459	48.615	ug/l		99
67) Ethyl Benzene	11.517	91	1179134	48.633	ug/l		99
68) m/p-Xylenes	11.627	106	928592	98.062	ug/l		99
69) o-Xylene	11.950	106	437649	49.346	ug/l		98
70) Styrene	11.962	104	741269	51.107	ug/l		99
71) Bromoform	12.127	173	128021	45.809	ug/l	#	97
73) Isopropylbenzene	12.249	105	1120808	46.989	ug/l		99
74) N-amyl acetate	12.066	43	227982	45.070	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.499	83	181898	44.662	ug/l		99
76) 1,2,3-Trichloropropane	12.548	75	243249	74.579	ug/l	#	100
77) Bromobenzene	12.523	156	261080	45.880	ug/l		98
78) n-propylbenzene	12.590	91	1351965	47.608	ug/l		100
79) 2-Chlorotoluene	12.676	91	768315	47.220	ug/l		99
80) 1,3,5-Trimethylbenzene	12.731	105	925355	48.002	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	55874	41.468	ug/l		99
82) 4-Chlorotoluene	12.773	91	801214	47.468	ug/l		100
83) tert-Butylbenzene	12.993	119	810256	46.538	ug/l		99
84) 1,2,4-Trimethylbenzene	13.035	105	927586	48.337	ug/l		100
85) sec-Butylbenzene	13.170	105	1204282	47.086	ug/l		100
86) p-Isopropyltoluene	13.285	119	1019726	48.033	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	527390	46.997	ug/l		98
88) 1,4-Dichlorobenzene	13.359	146	517037	46.447	ug/l		99
89) n-Butylbenzene	13.615	91	926009	47.492	ug/l		99
90) Hexachloroethane	13.877	117	207292	47.698	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	460225	46.764	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	28670	45.213	ug/l		95
93) 1,2,4-Trichlorobenzene	14.913	180	253171	43.501	ug/l		99
94) Hexachlorobutadiene	15.017	225	143600	41.989	ug/l		98
95) Naphthalene	15.139	128	459045	46.256	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	216348	43.140	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 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

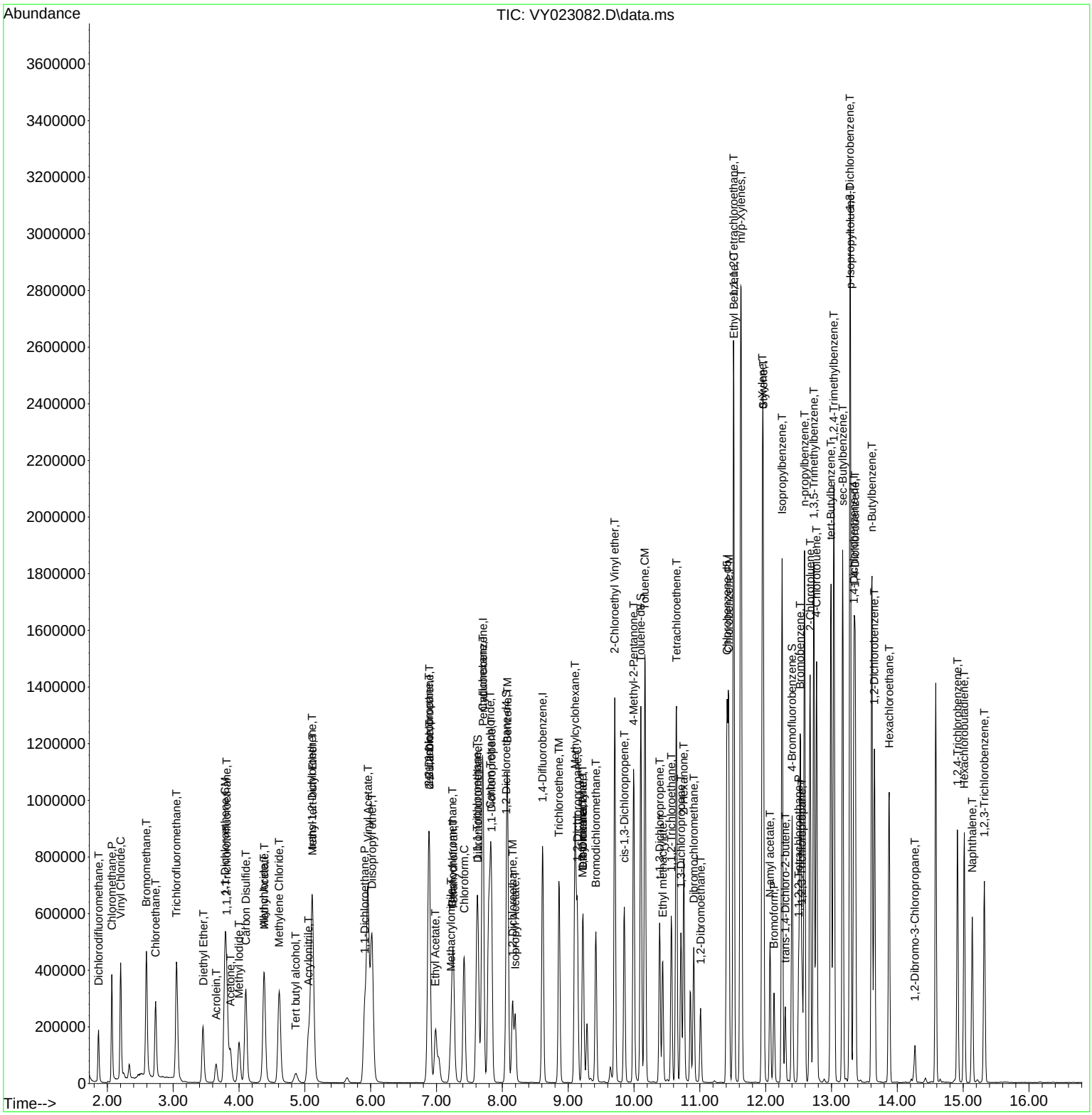
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

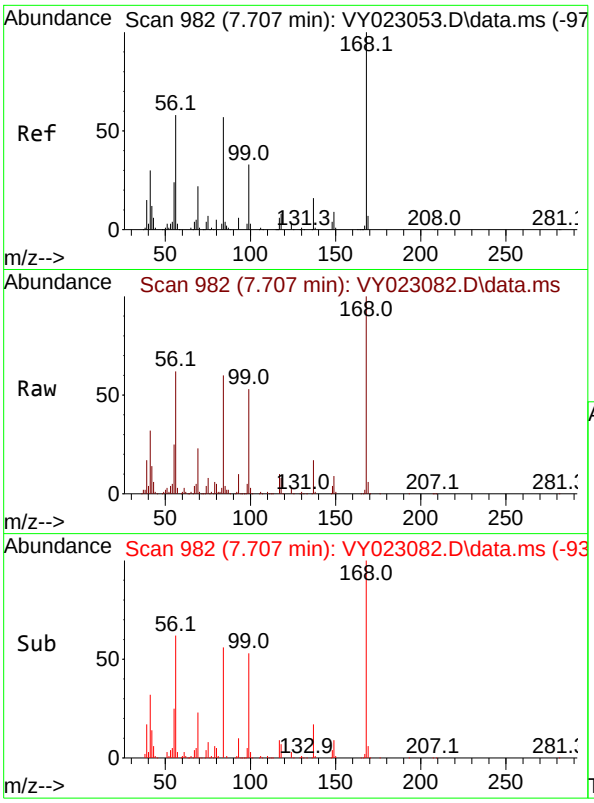
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 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



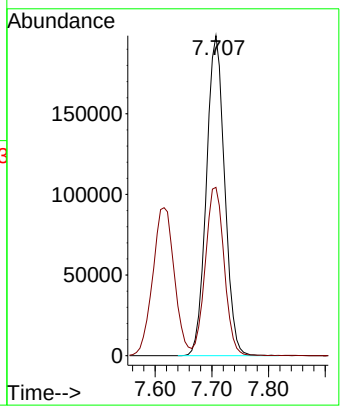


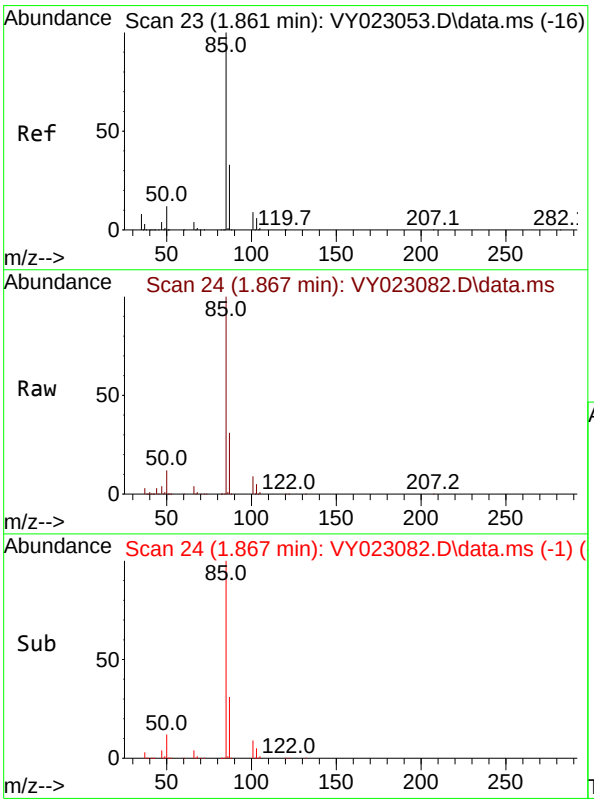
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 442938

Ion	Ratio	Lower	Upper
168	100		
99	52.5	42.8	64.2

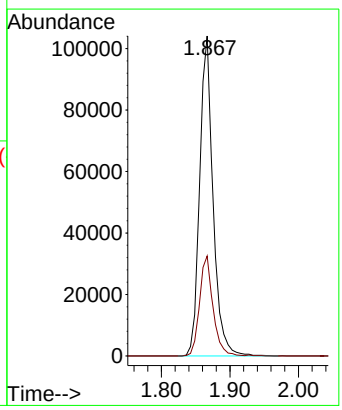


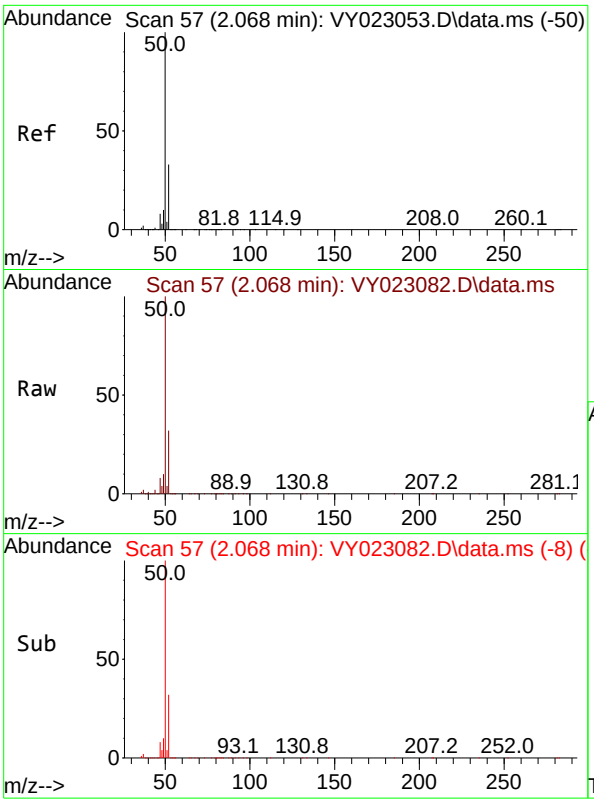


#2
Dichlorodifluoromethane
Concen: 39.105 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 85 Resp: 141385

Ion	Ratio	Lower	Upper
85	100		
87	31.3	16.6	49.8



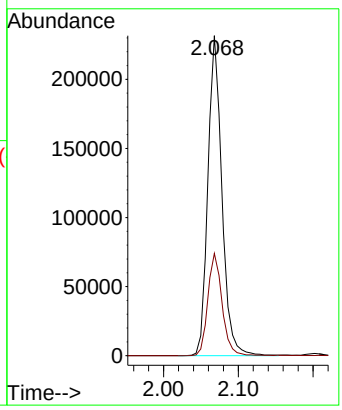


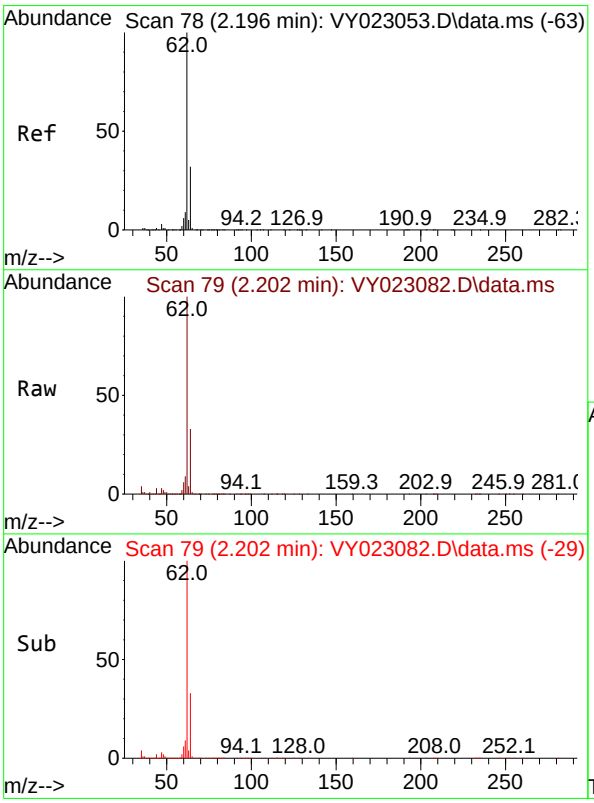
#3
Chloromethane
Concen: 51.531 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 301762

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1

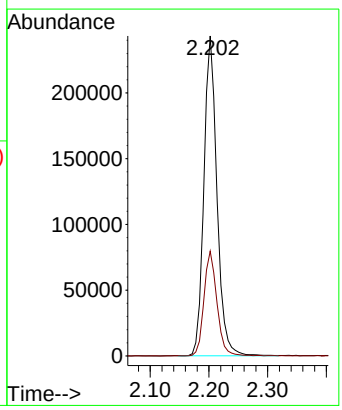


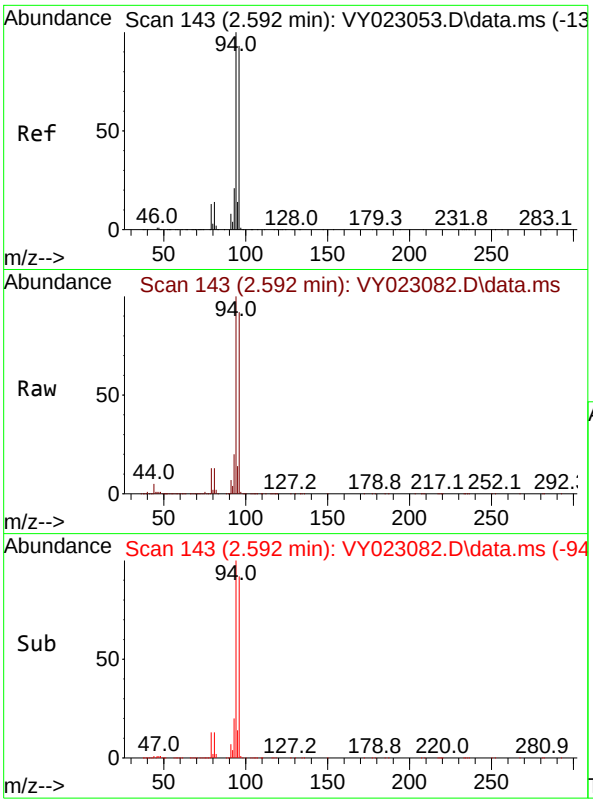


#4
Vinyl Chloride
Concen: 51.951 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 376058

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.4	38.0



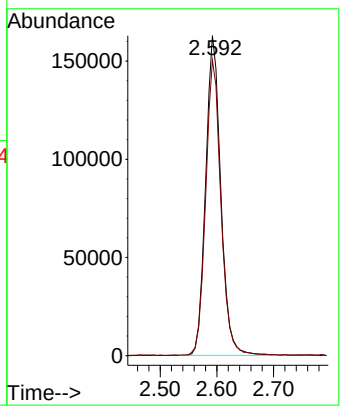


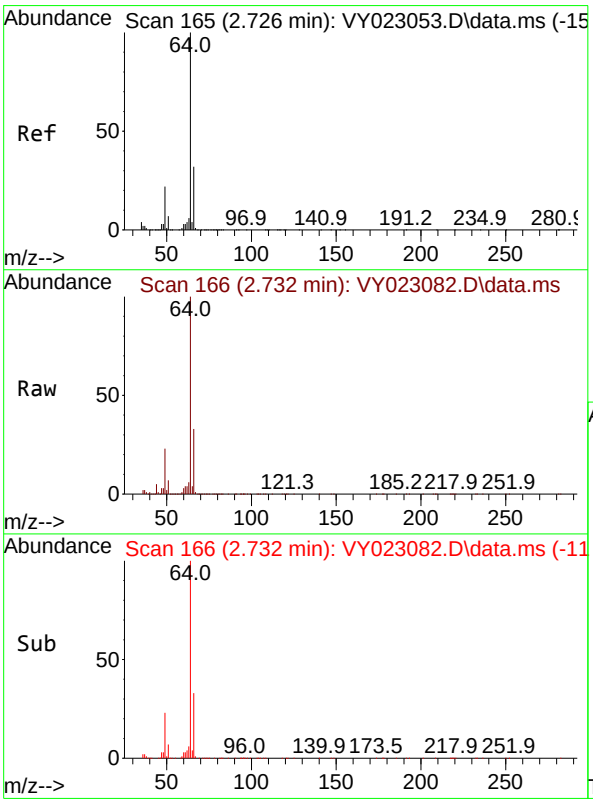
#5
Bromomethane
Concen: 55.884 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 302117

Ion	Ratio	Lower	Upper
94	100		
96	92.2	74.6	112.0

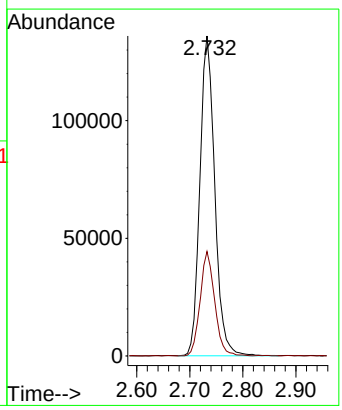


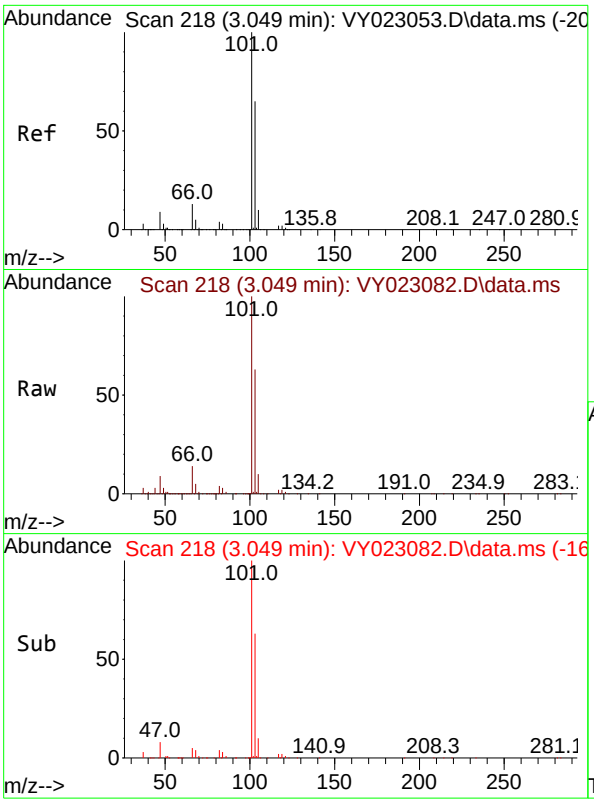


#6
Chloroethane
Concen: 54.827 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 64 Resp: 263860

Ion	Ratio	Lower	Upper
64	100		
66	32.6	25.8	38.6



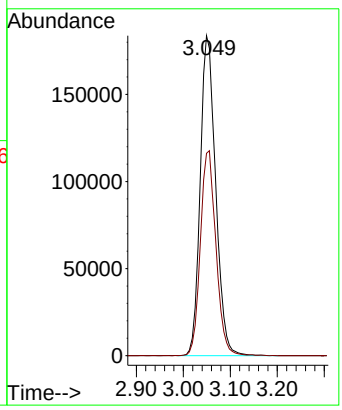


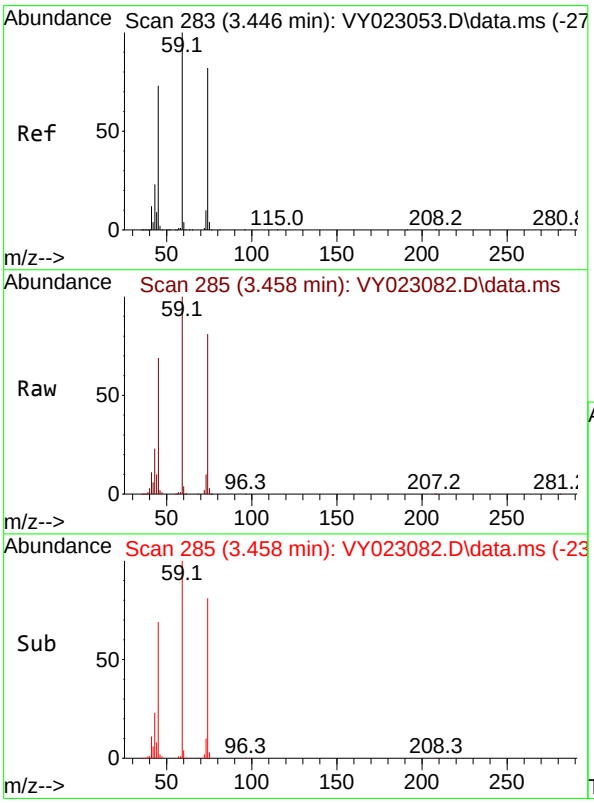
#7
Trichlorofluoromethane
Concen: 47.599 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 418963

Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.9	77.9

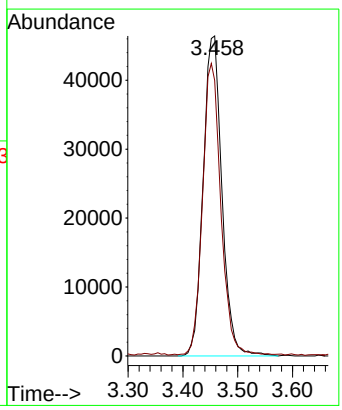


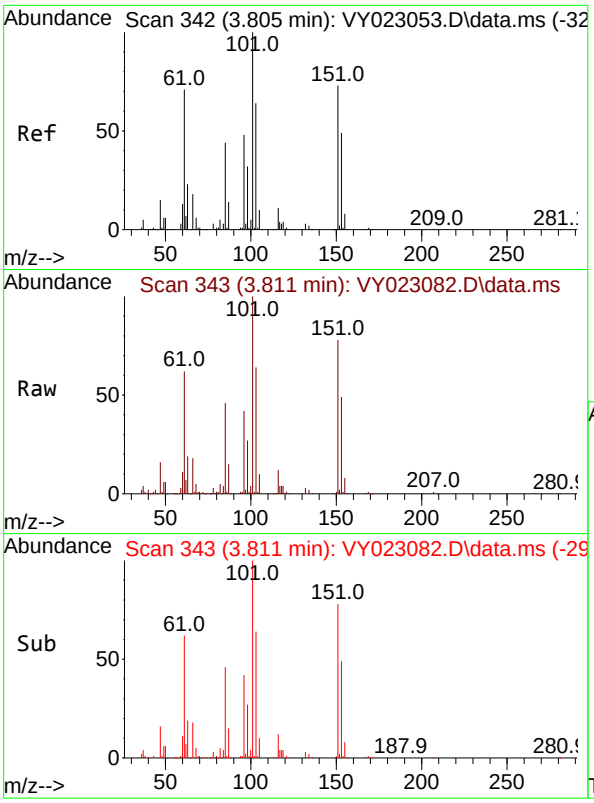


#8
Diethyl Ether
Concen: 47.275 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 74 Resp: 110091

Ion	Ratio	Lower	Upper
74	100		
45	88.4	44.4	133.2



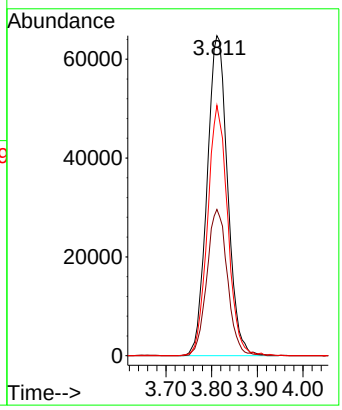


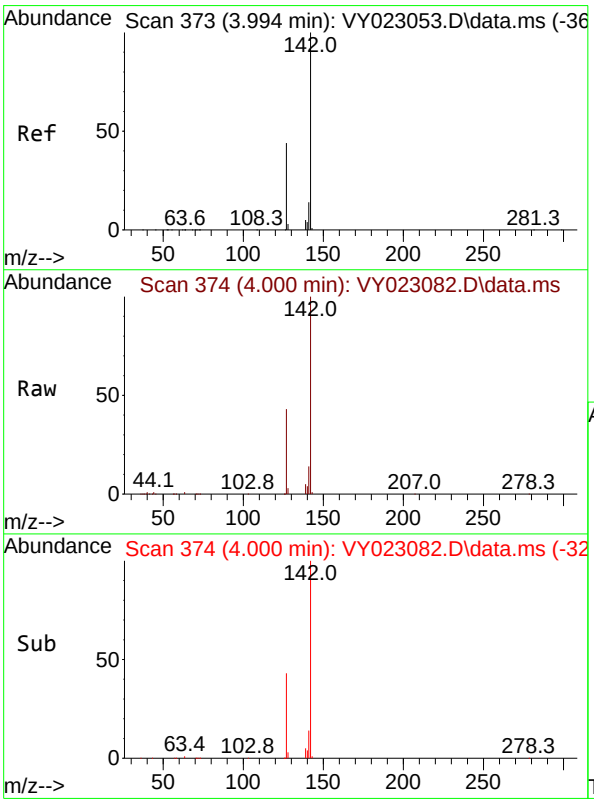
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.513 ug/l
RT: 3.811 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 201980

Ion	Ratio	Lower	Upper
101	100		
85	45.8	36.3	54.5
151	76.7	61.5	92.3

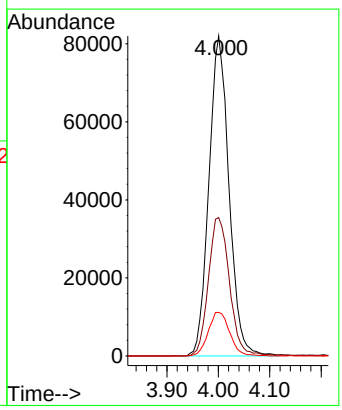


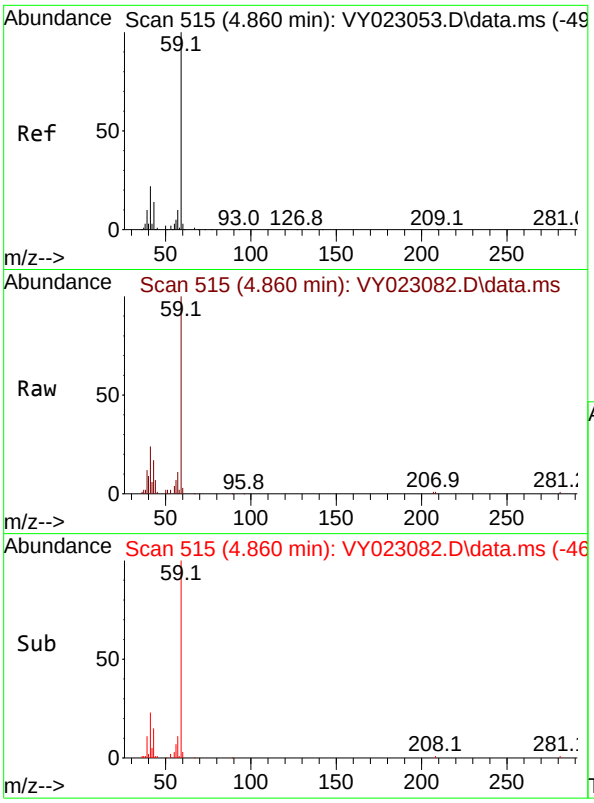


#10
Methyl Iodide
Concen: 47.564 ug/l
RT: 4.000 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:142 Resp: 222876

Ion	Ratio	Lower	Upper
142	100		
127	45.4	34.9	52.3
141	14.6	11.3	16.9



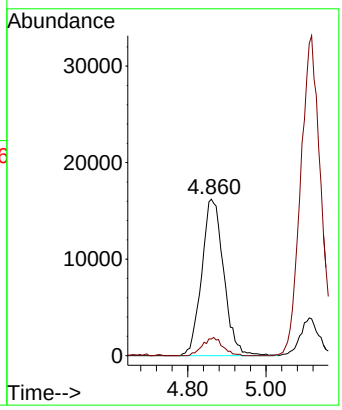


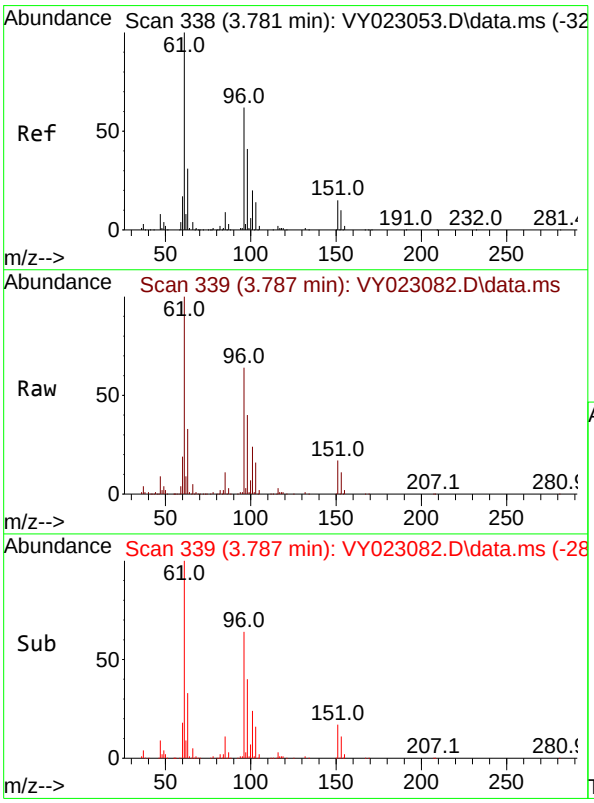
#11
Tert butyl alcohol
Concen: 218.366 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 63163

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.6	13.0

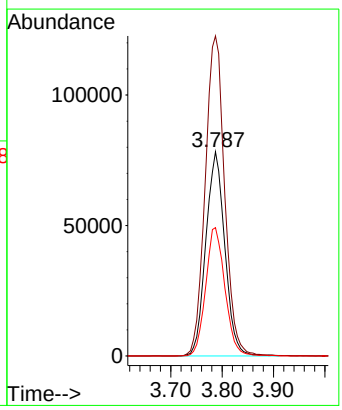


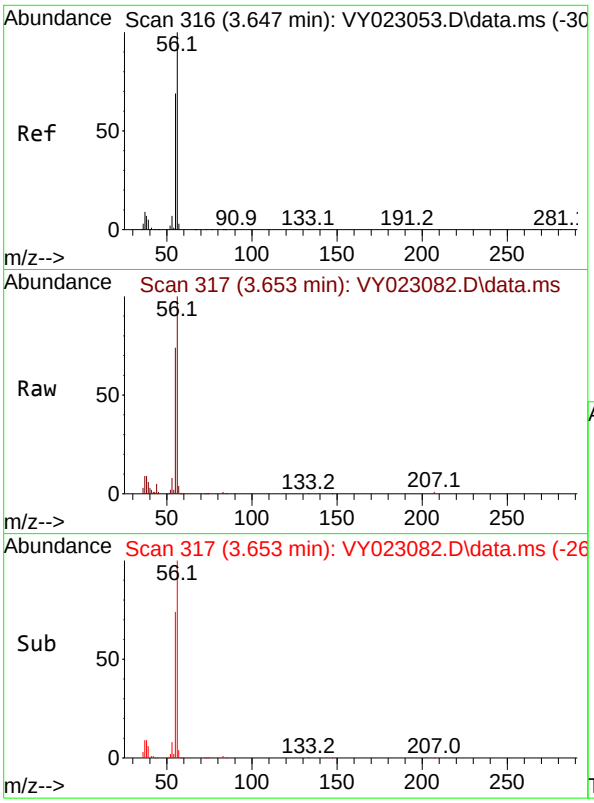


#12
1,1-Dichloroethene
Concen: 47.150 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 201251

Ion	Ratio	Lower	Upper
96	100		
61	156.7	129.4	194.2
98	62.9	52.8	79.2



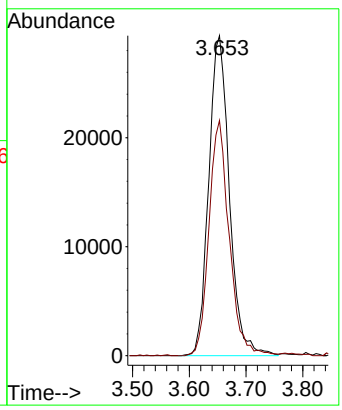


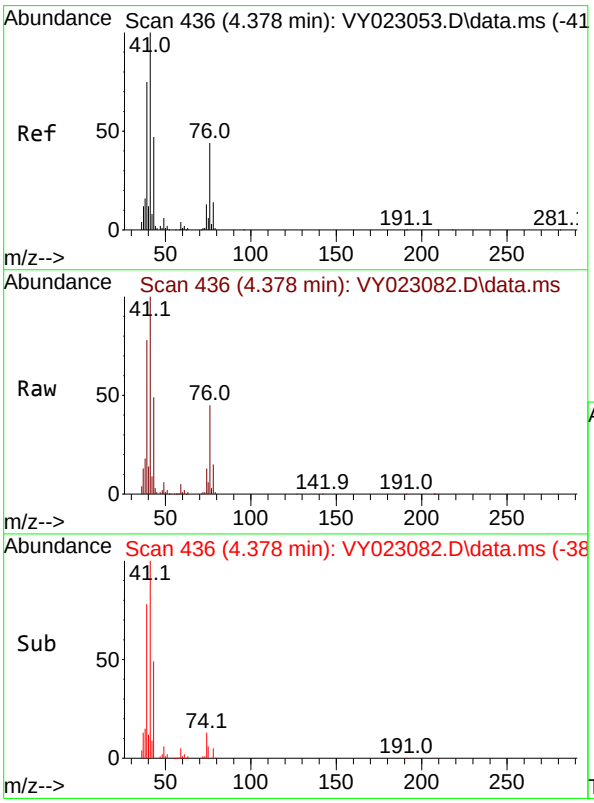
#13
Acrolein
Concen: 175.306 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 74262

Ion	Ratio	Lower	Upper
56	100		
55	72.1	55.2	82.8

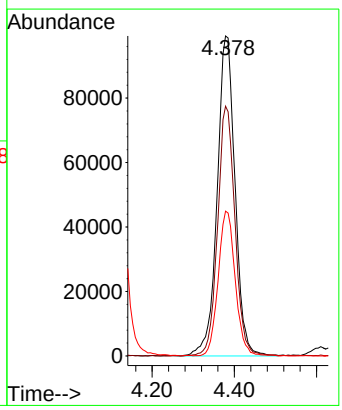


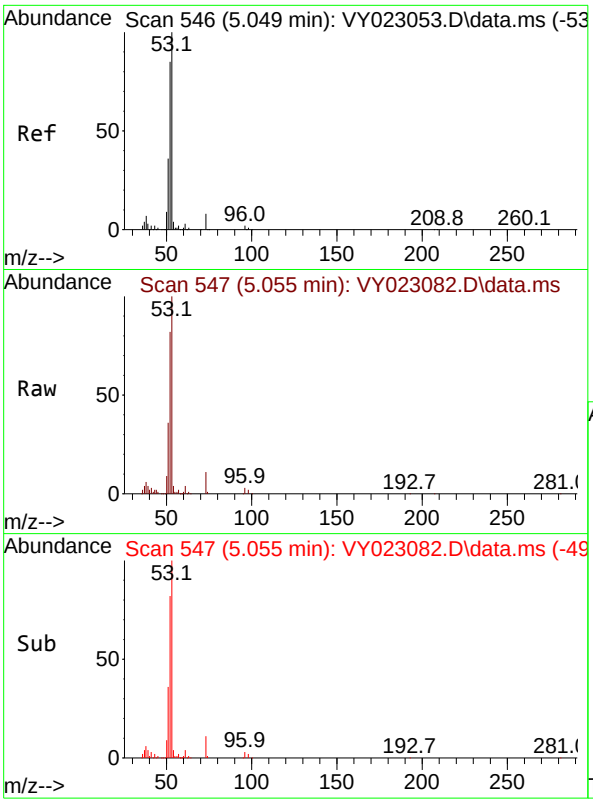


#14
Allyl chloride
Concen: 47.744 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 299858

Ion	Ratio	Lower	Upper
41	100		
39	75.7	59.8	89.6
76	43.3	33.7	50.5



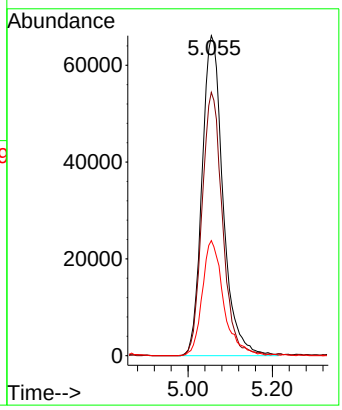


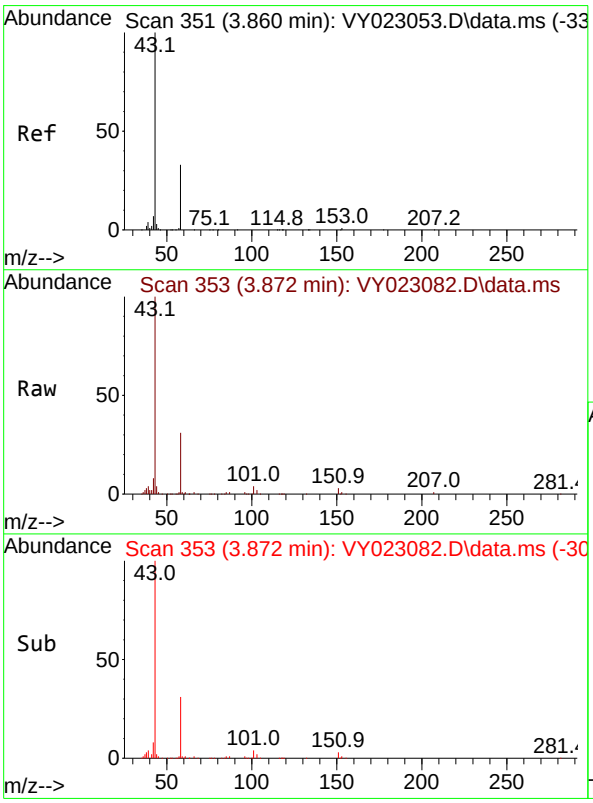
#15
Acrylonitrile
Concen: 242.199 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 229299

Ion	Ratio	Lower	Upper
53	100		
52	80.1	65.3	97.9
51	36.6	29.5	44.3

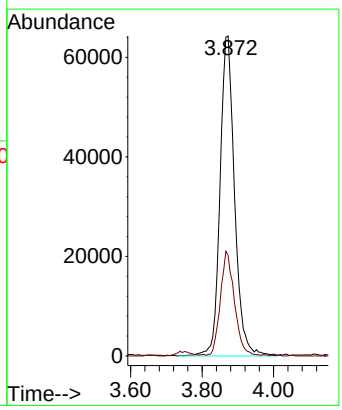


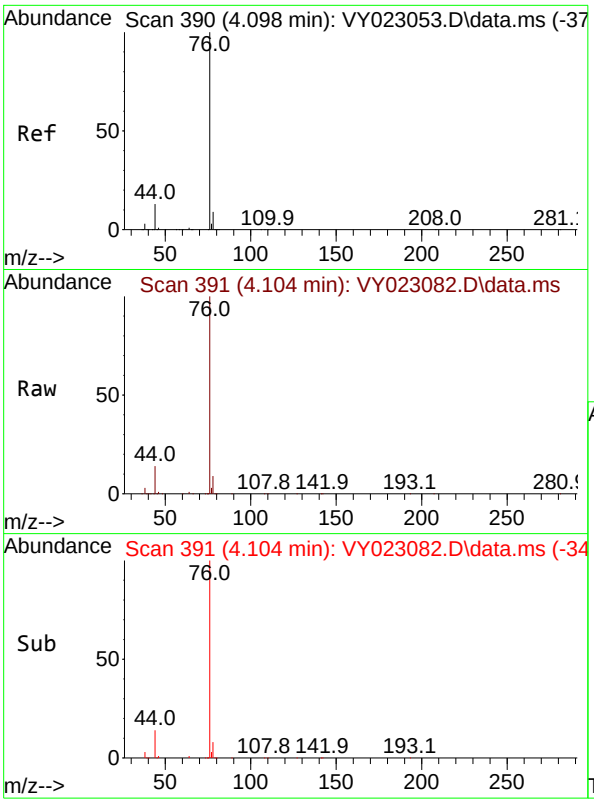


#16
Acetone
Concen: 198.426 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 181474

Ion	Ratio	Lower	Upper
43	100		
58	31.2	27.1	40.7



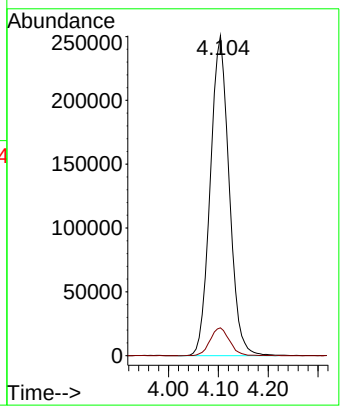


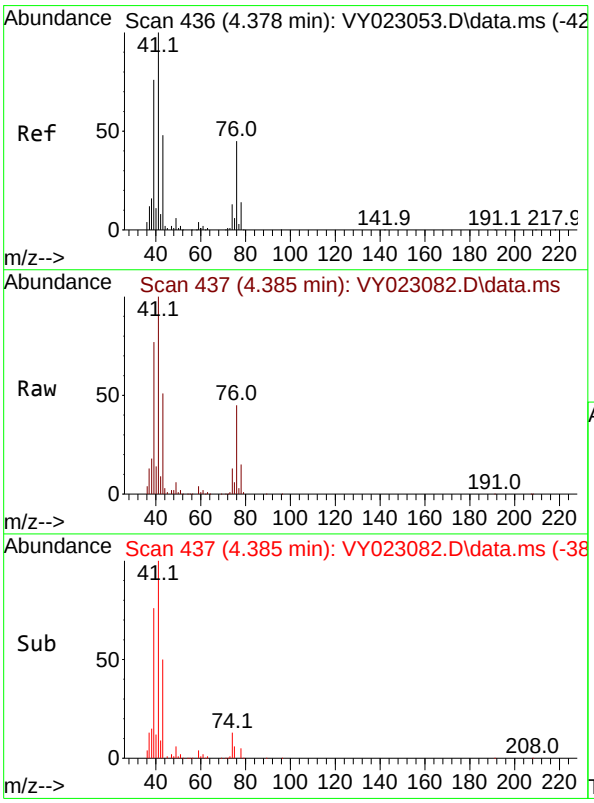
#17
Carbon Disulfide
Concen: 47.377 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 659370

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.2

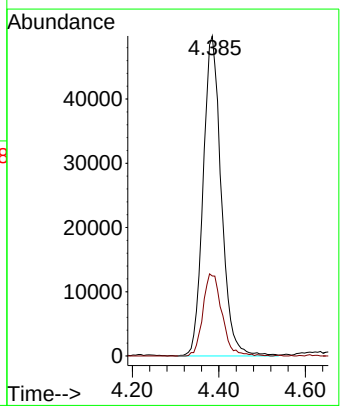


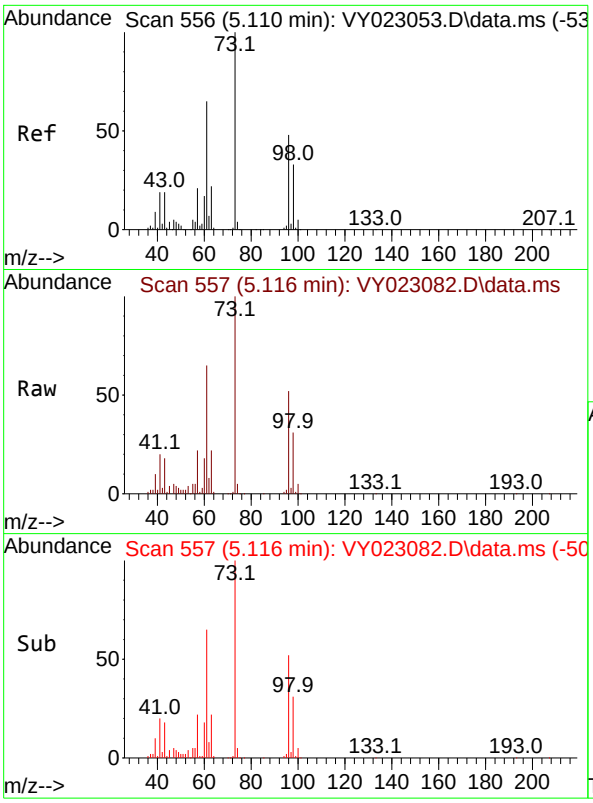


#18
Methyl Acetate
Concen: 53.111 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 144547

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8



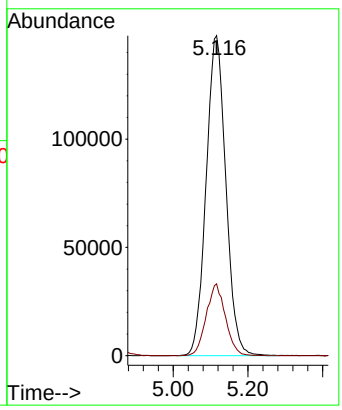


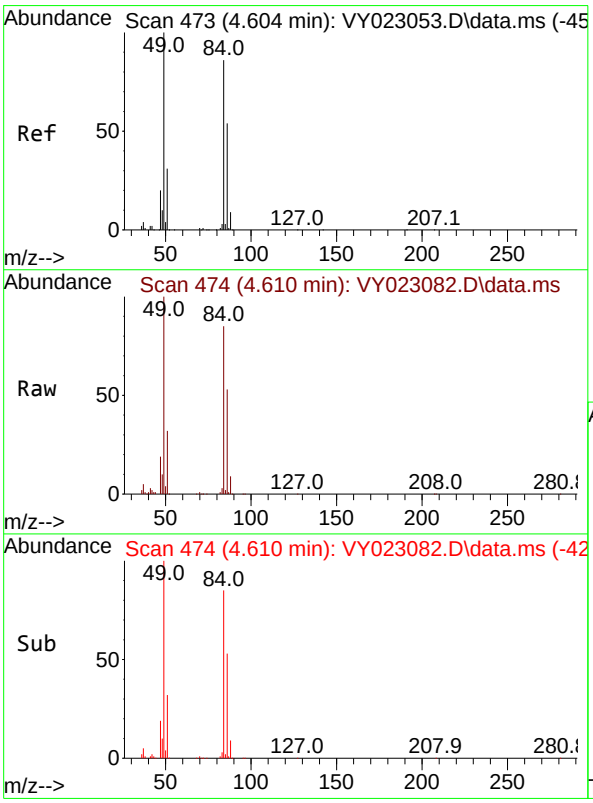
#19
Methyl tert-butyl Ether
Concen: 48.863 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 540452

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.1	25.7

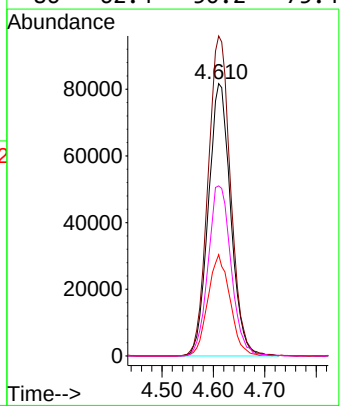


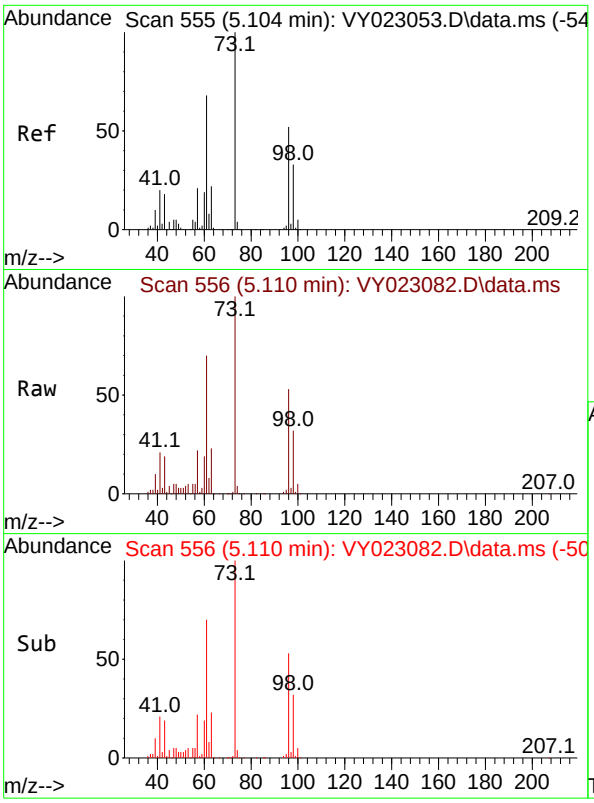


#20
Methylene Chloride
Concen: 51.824 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 84 Resp: 245813

Ion	Ratio	Lower	Upper
84	100		
49	117.4	93.0	139.6
51	37.1	29.0	43.4
86	62.4	50.2	75.4



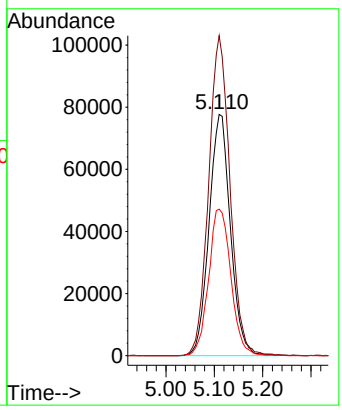


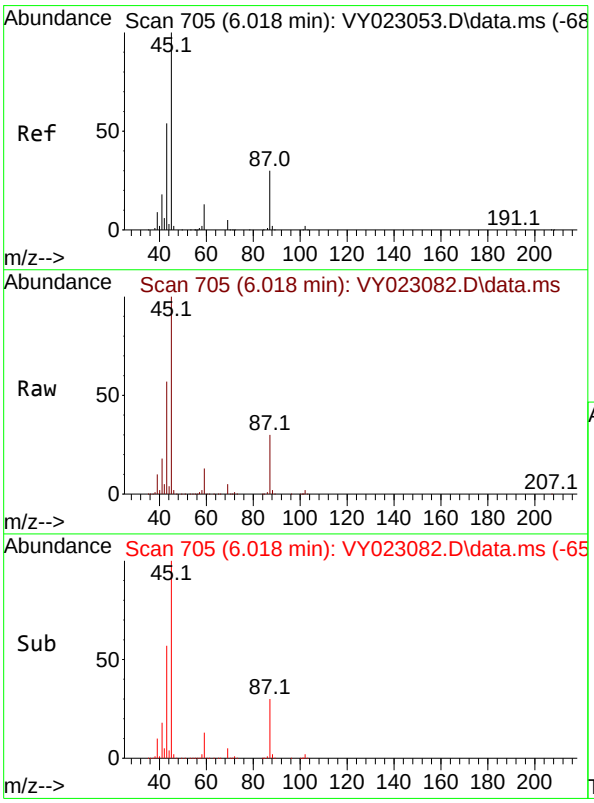
#21
trans-1,2-Dichloroethene
Concen: 49.867 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 239199

Ion	Ratio	Lower	Upper
96	100		
61	132.6	104.8	157.2
98	60.7	50.1	75.1

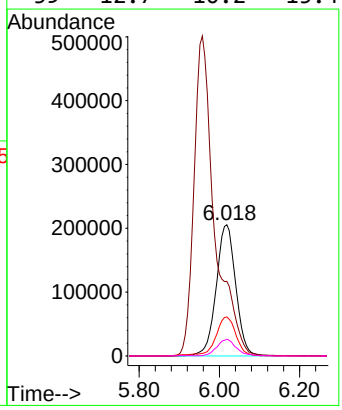


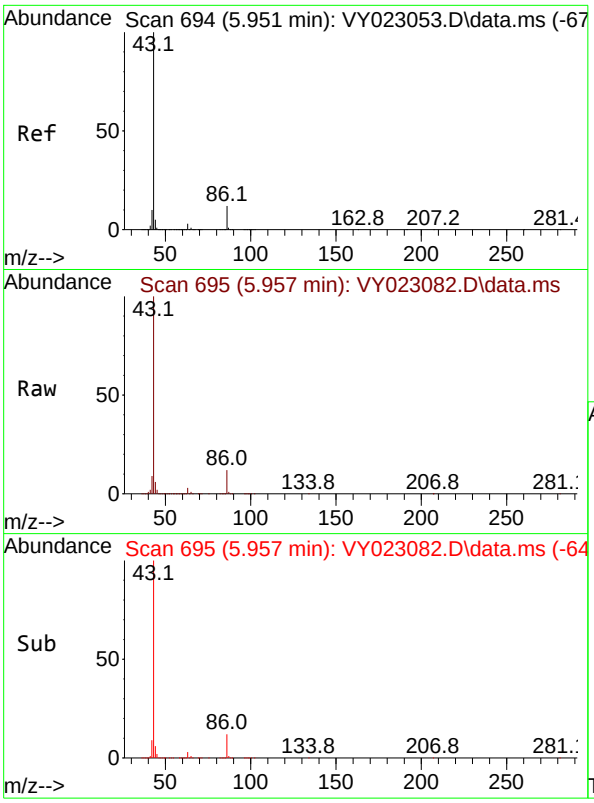


#22
Diisopropyl ether
Concen: 50.952 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 45 Resp: 695381

Ion	Ratio	Lower	Upper
45	100		
43	56.4	43.4	65.0
87	29.7	24.4	36.6
59	12.7	10.2	15.4



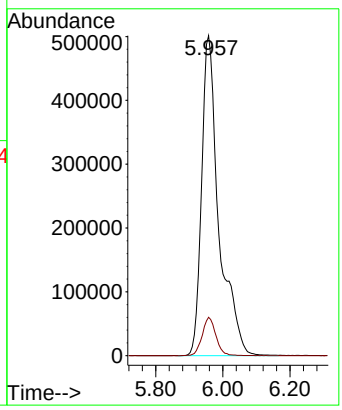


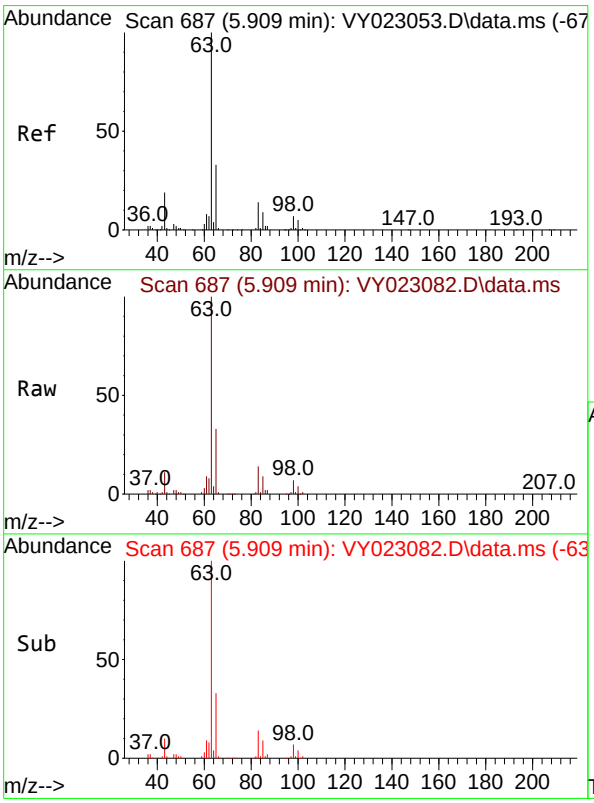
#23
Vinyl Acetate
Concen: 237.183 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1789905

Ion	Ratio	Lower	Upper
43	100		
86	12.0	9.6	14.4

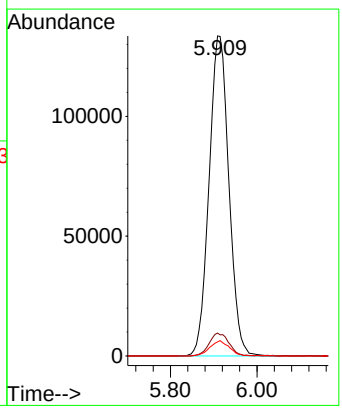


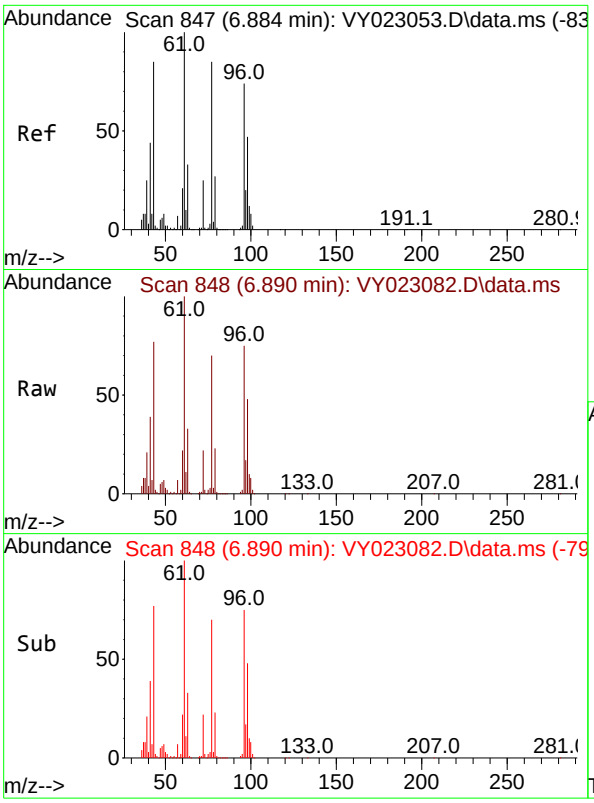


#24
1,1-Dichloroethane
Concen: 50.854 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 424330

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.4	2.4	7.1



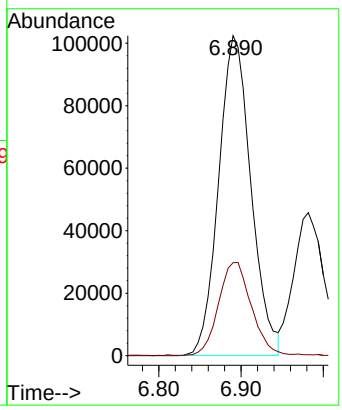


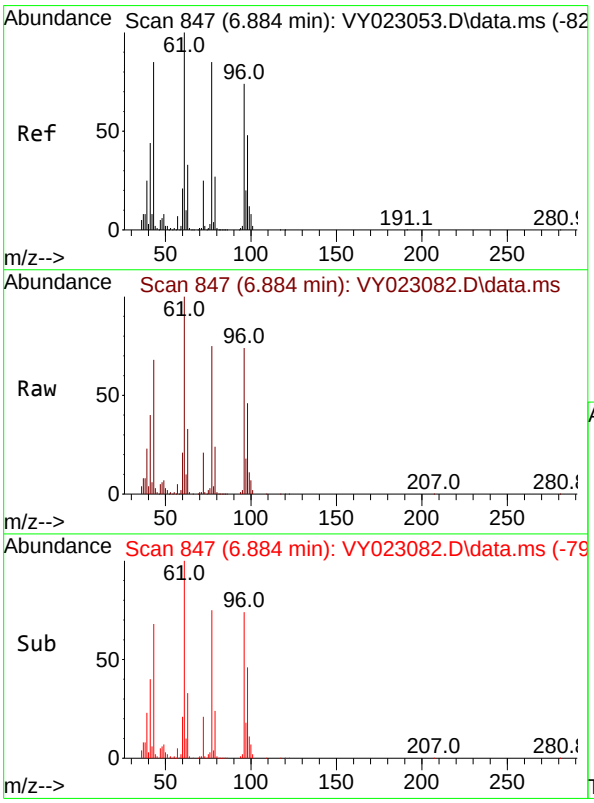
#25
2-Butanone
Concen: 224.999 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 279864

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.5	35.3

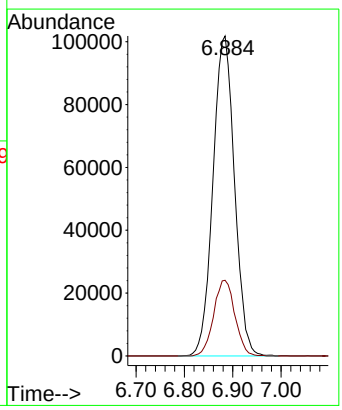


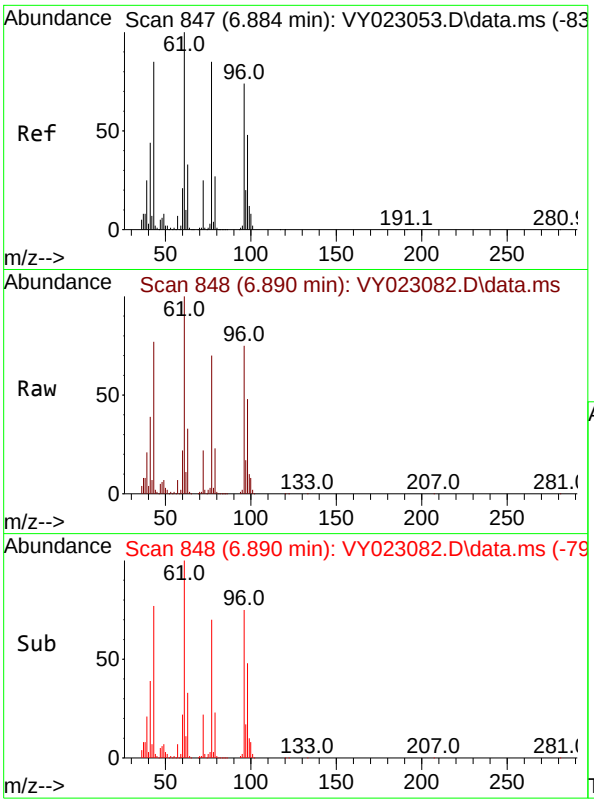


#26
2,2-Dichloropropane
Concen: 43.733 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 77 Resp: 314878

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.8



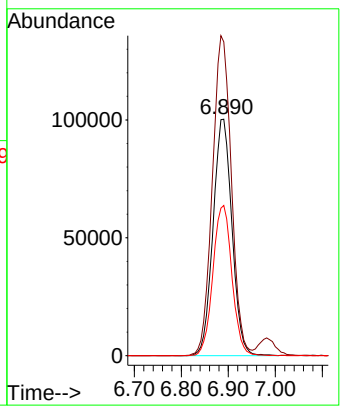


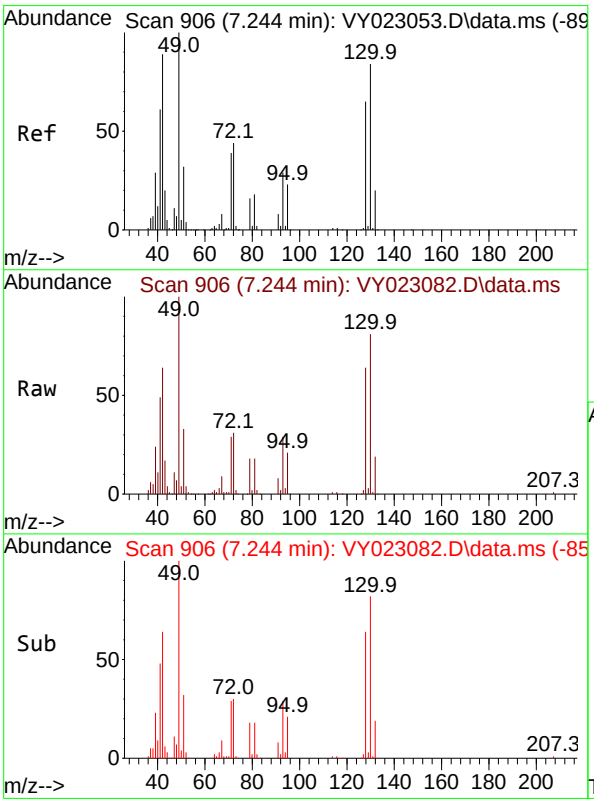
#27
cis-1,2-Dichloroethene
Concen: 50.561 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 280376

Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	278.6
98	63.9	0.0	130.4

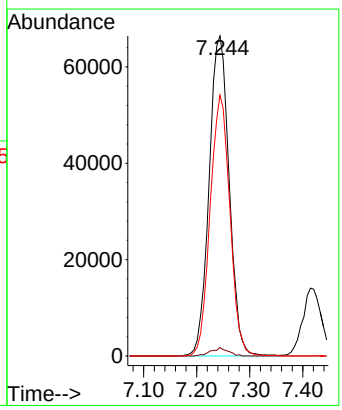


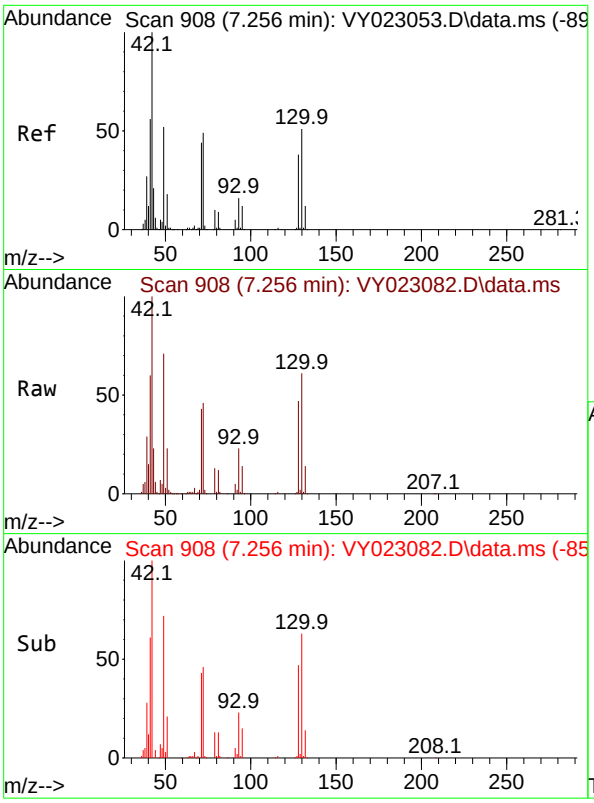


#28
Bromochloromethane
Concen: 52.662 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 49 Resp: 174333

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	80.2	66.4	99.6



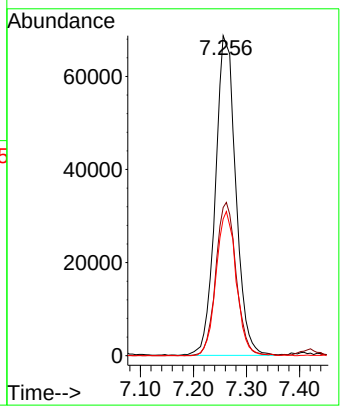


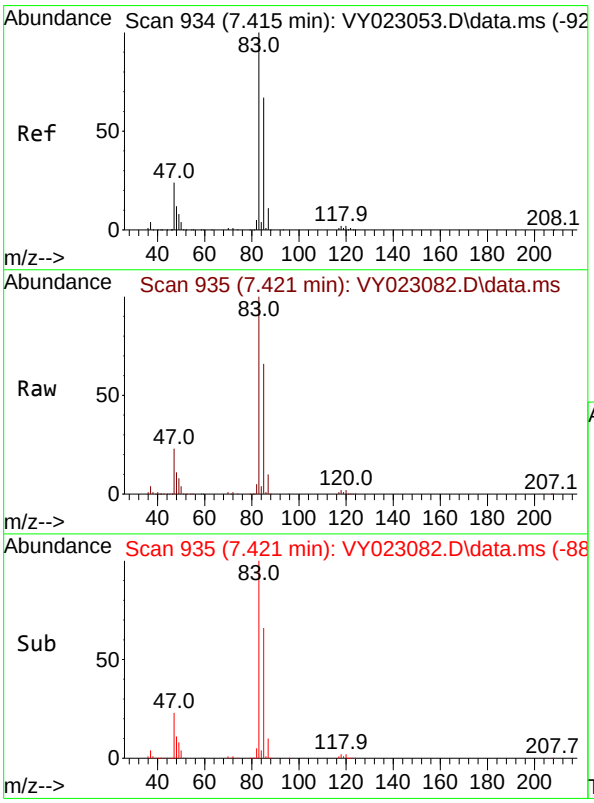
#29
Tetrahydrofuran
Concen: 238.509 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 183892

Ion	Ratio	Lower	Upper
42	100		
72	47.8	39.4	59.2
71	44.6	36.5	54.7

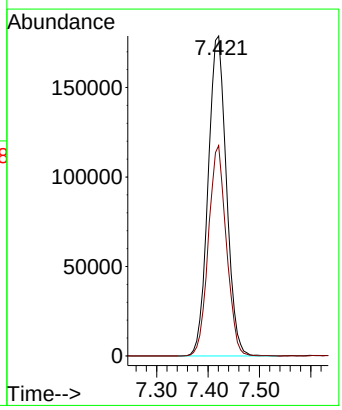


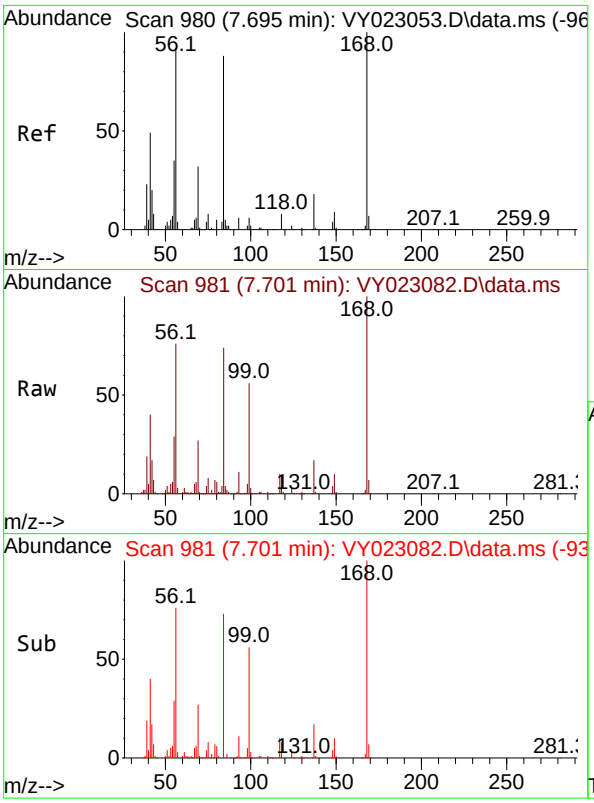


#30
Chloroform
Concen: 51.354 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 441927

Ion	Ratio	Lower	Upper
83	100		
85	65.7	53.8	80.8



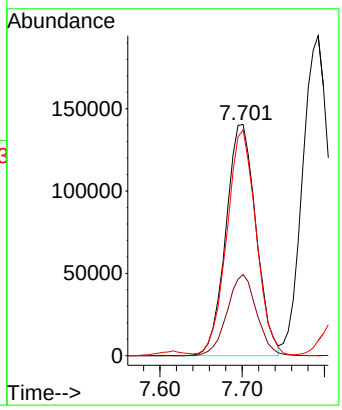


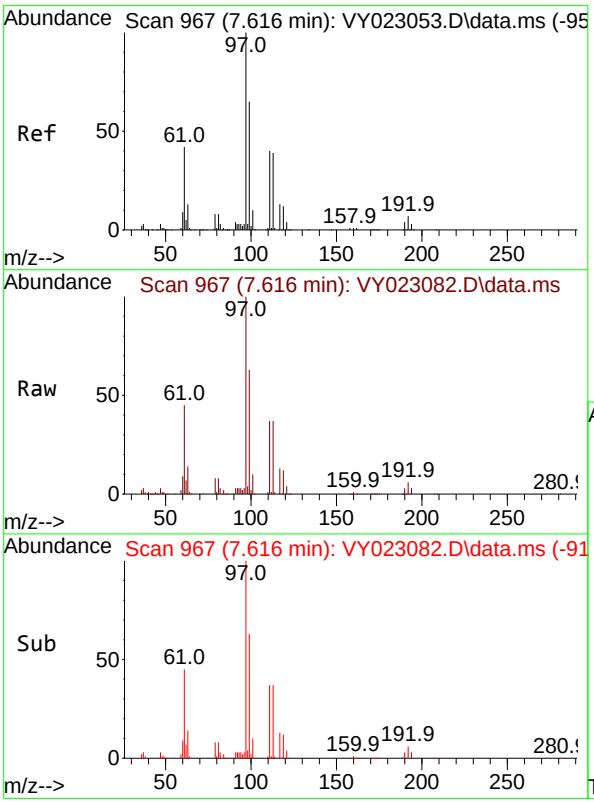
#31
Cyclohexane
Concen: 45.365 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 356707

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.2	42.2
84	96.1	76.6	114.8

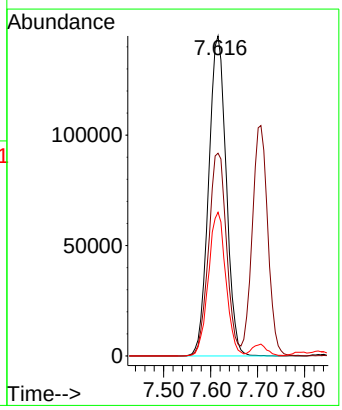


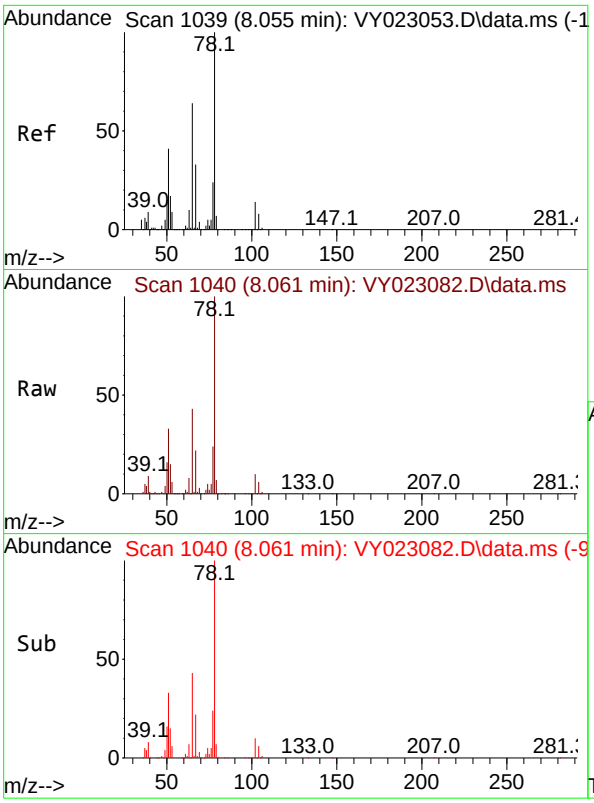


#32
1,1,1-Trichloroethane
Concen: 49.325 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 97 Resp: 376634

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	44.6	34.2	51.2



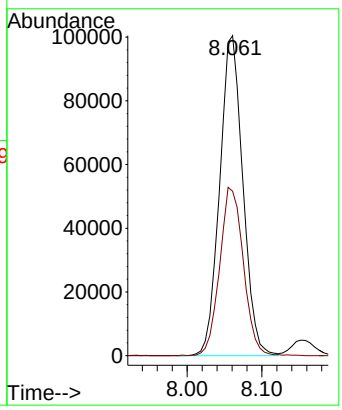


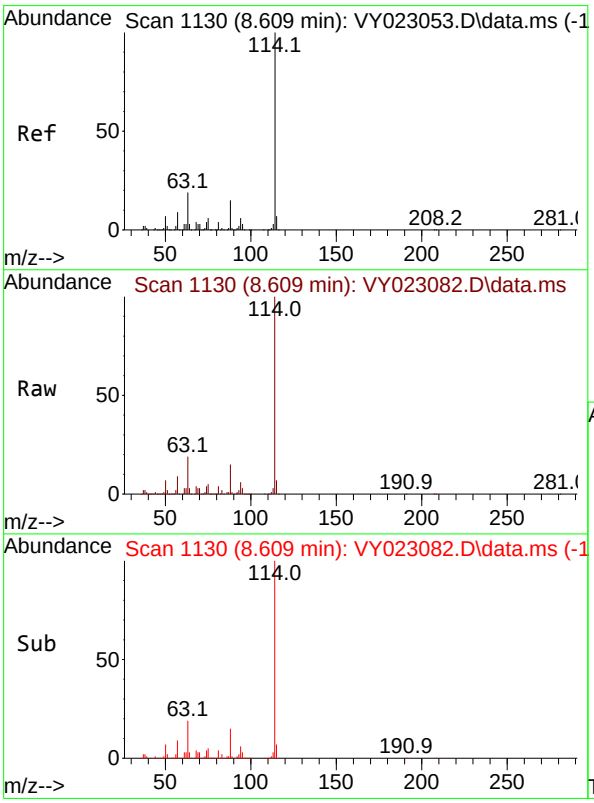
#33
1,2-Dichloroethane-d4
Concen: 51.443 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 217167

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	106.8

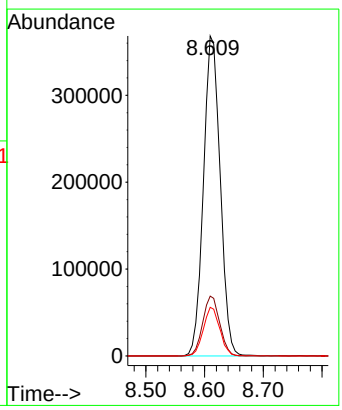


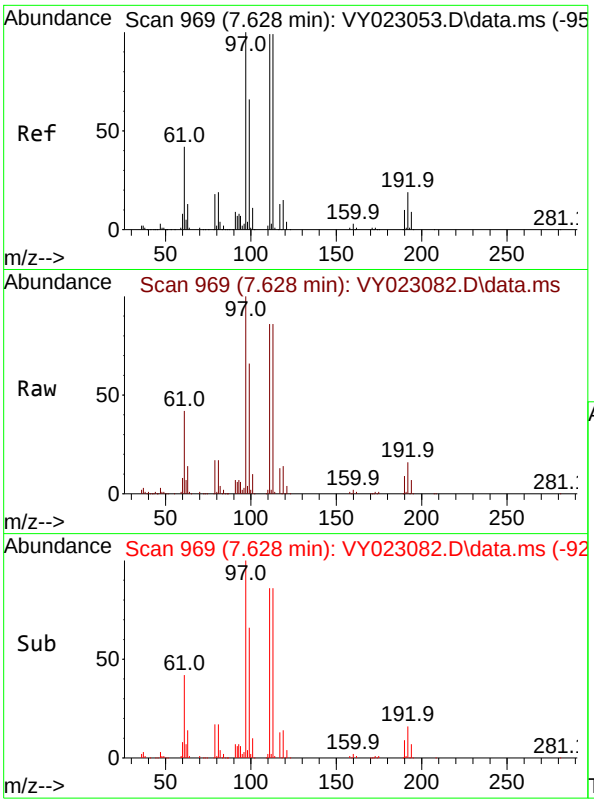


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:114 Resp: 730611

Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	38.4
88	15.2	0.0	30.0



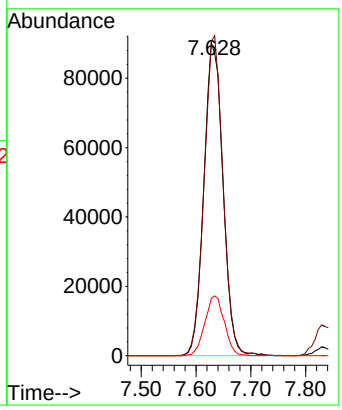


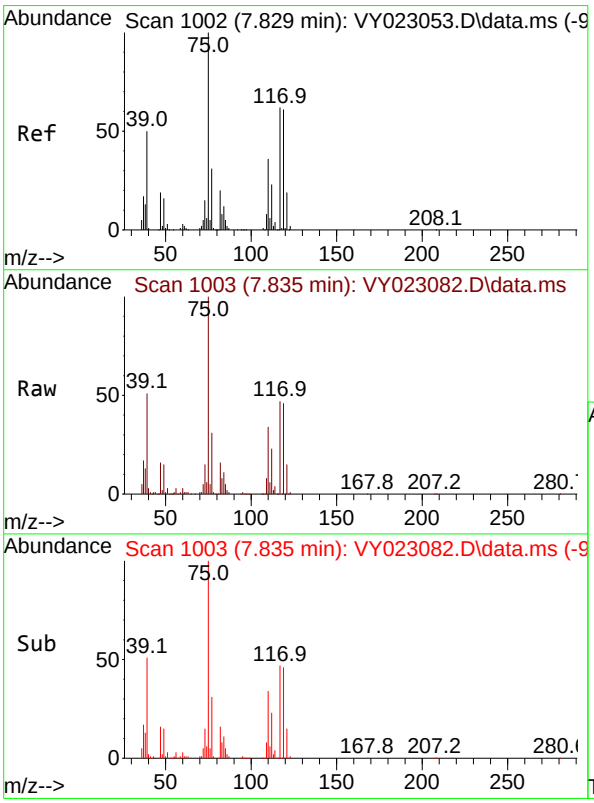
#35
Dibromofluoromethane
Concen: 49.874 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 218038

Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.1	121.7
192	19.4	16.2	24.4

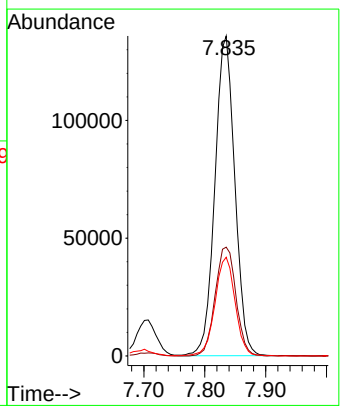


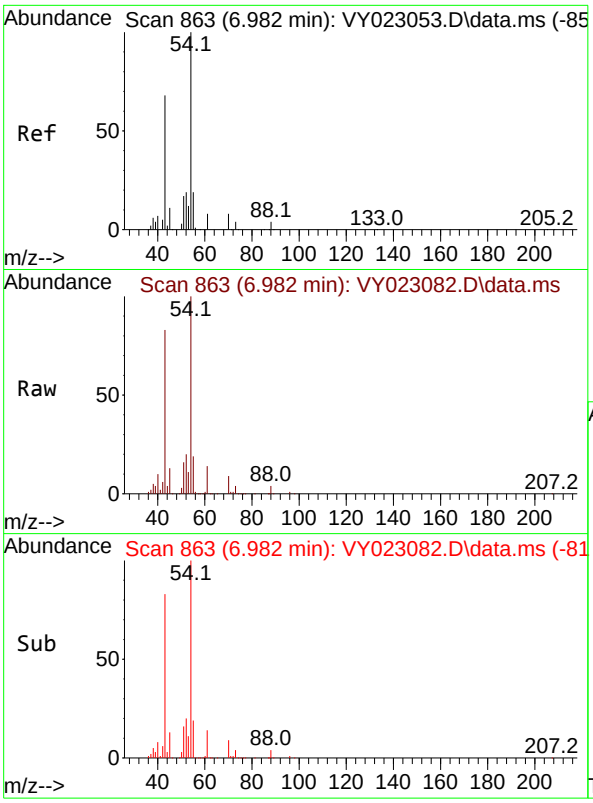


#36
1,1-Dichloropropene
Concen: 47.457 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 308332

Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.4
77	31.3	24.6	37.0



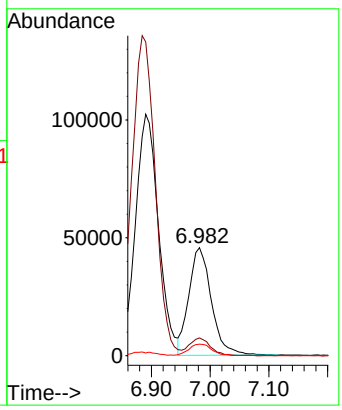


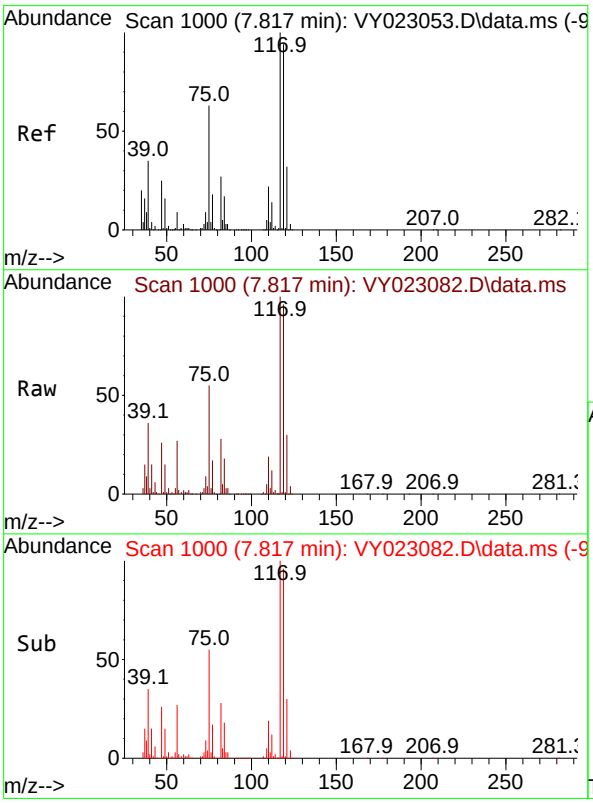
#37
Ethyl Acetate
Concen: 44.531 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 121535

Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.9	17.9
70	11.1	8.8	13.2

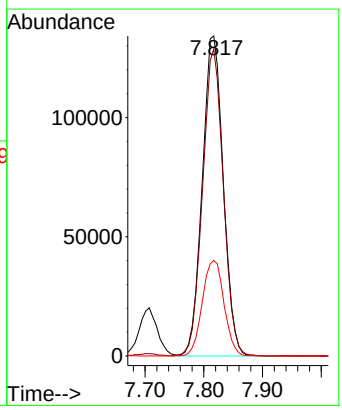


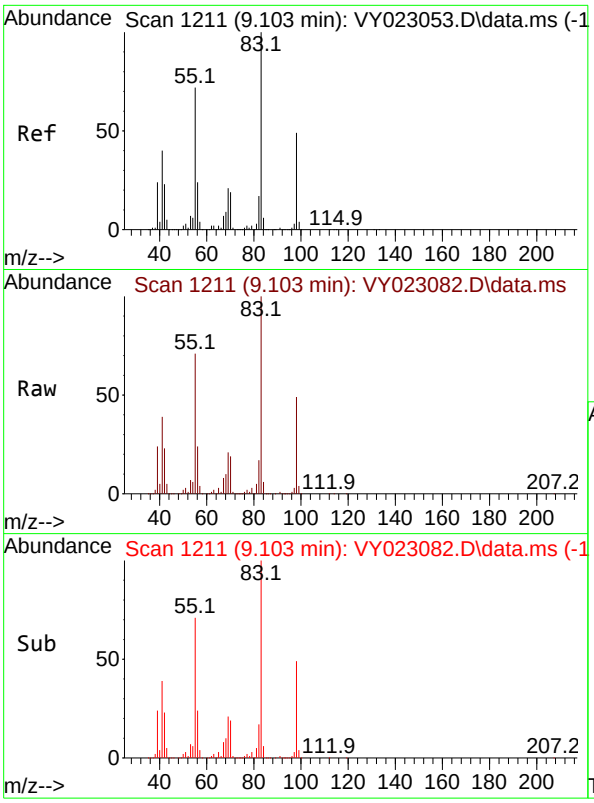


#38
Carbon Tetrachloride
Concen: 47.191 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 333012

Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.6	113.4
121	29.9	25.8	38.8



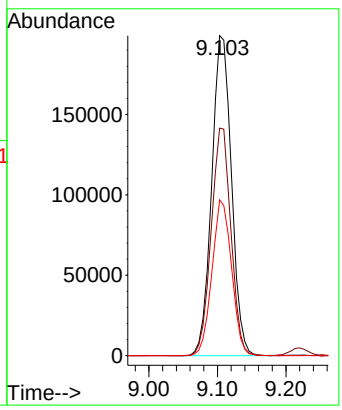


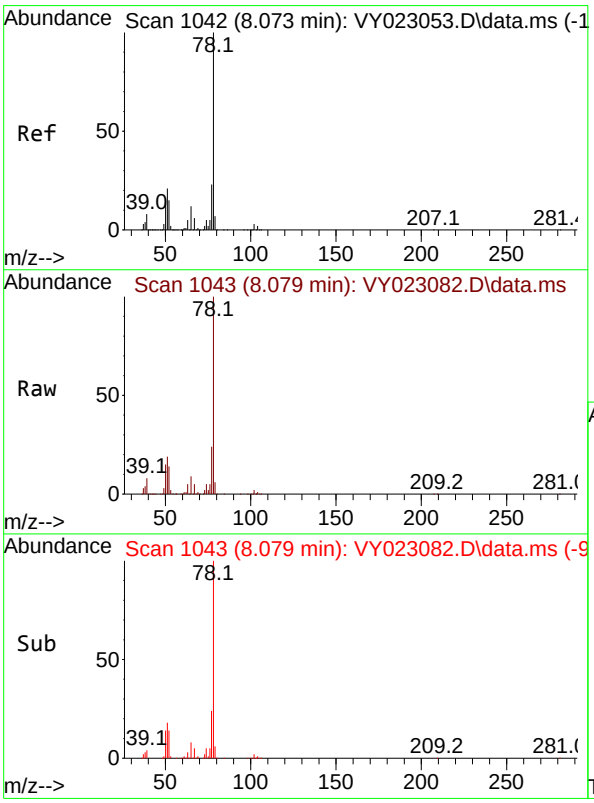
#39
Methylcyclohexane
Concen: 46.461 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 397504

Ion	Ratio	Lower	Upper
83	100		
55	71.1	57.6	86.4
98	48.7	39.2	58.8

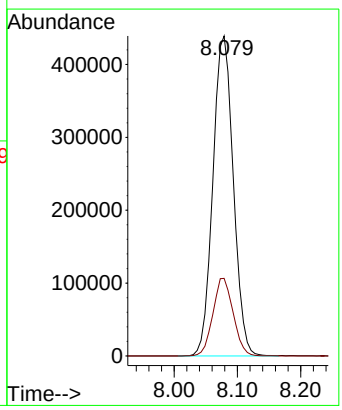


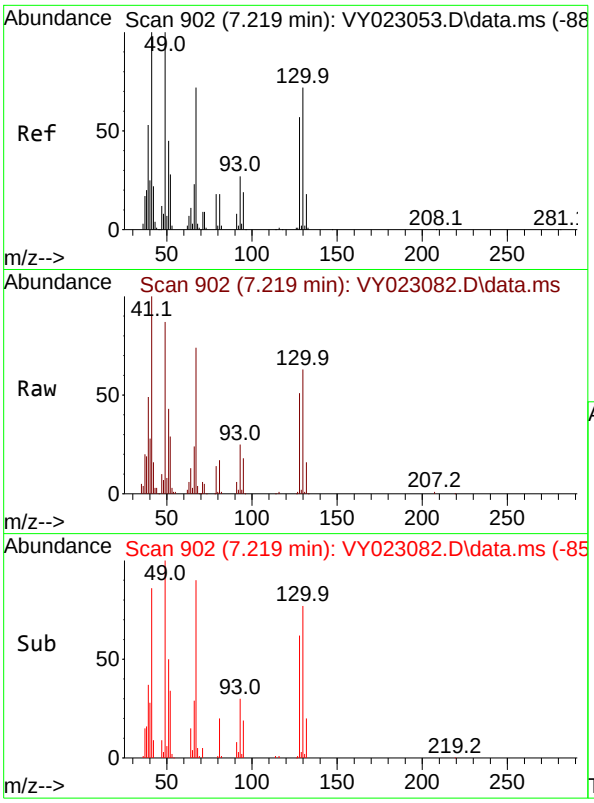


#40
Benzene
Concen: 49.159 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 78 Resp: 984401

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.6	28.0



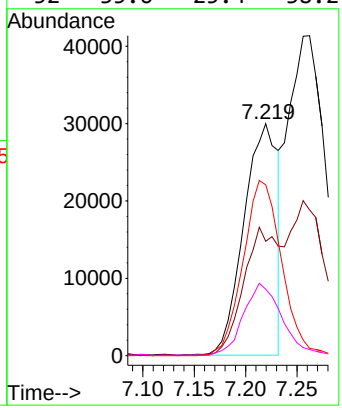


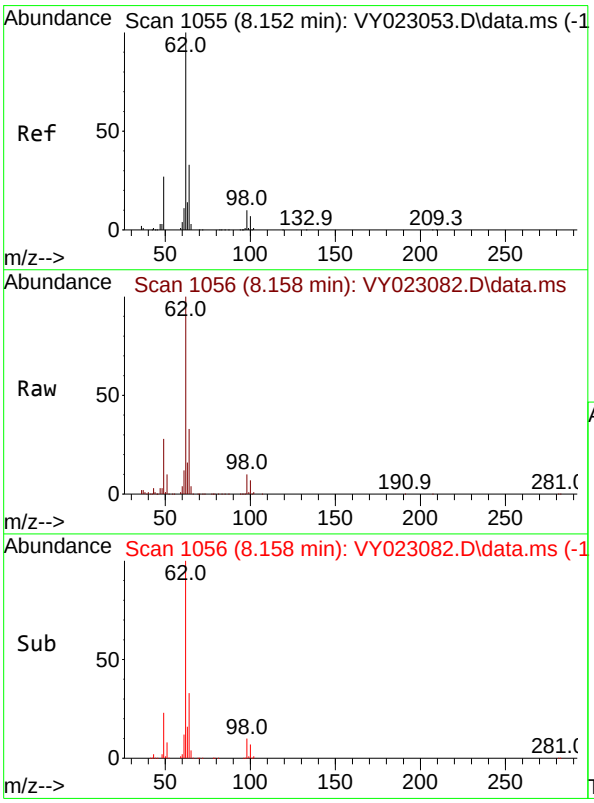
#41
Methacrylonitrile
Concen: 43.571 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 68628

Ion	Ratio	Lower	Upper
41	100		
39	62.4	43.4	65.2
67	86.2	63.6	95.4
52	35.6	25.4	38.2

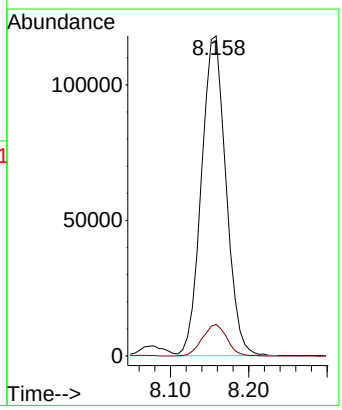


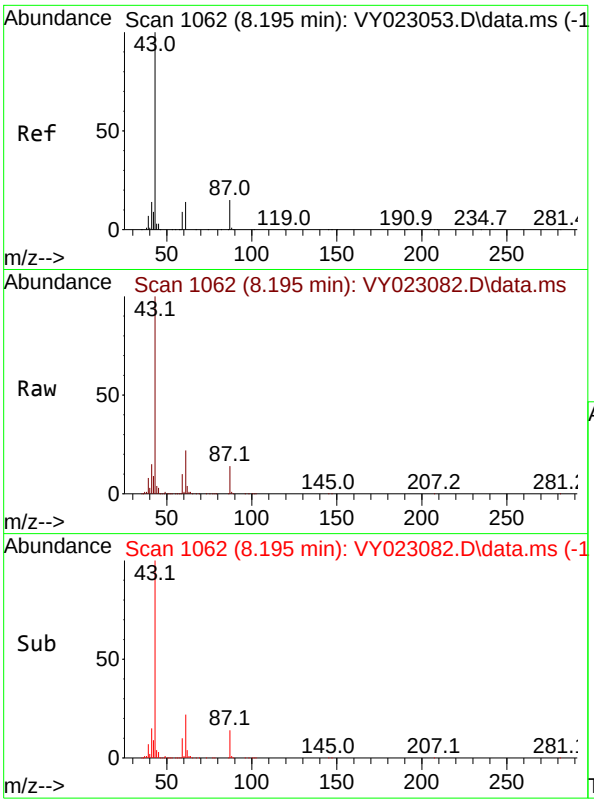


#42
1,2-Dichloroethane
Concen: 49.294 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 256723

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.6



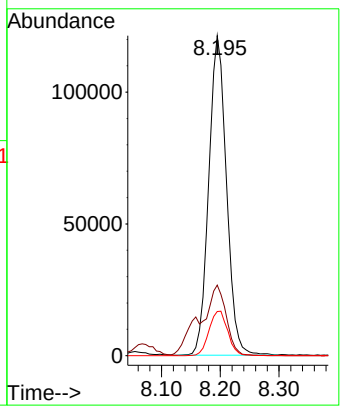


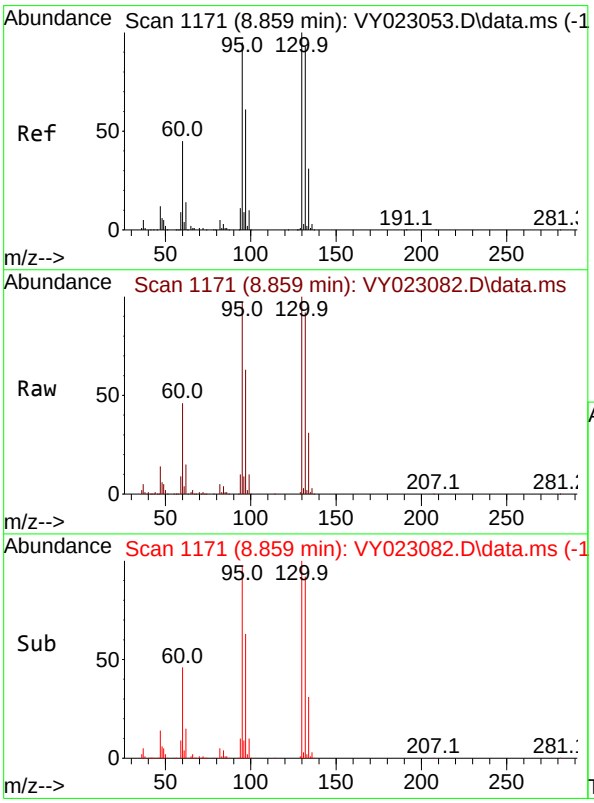
#43
Isopropyl Acetate
Concen: 46.064 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 254100

Ion	Ratio	Lower	Upper
43	100		
61	21.8	16.4	24.6
87	14.7	11.8	17.6

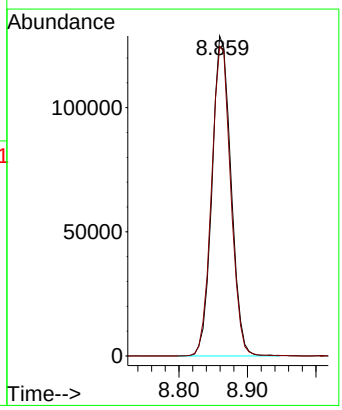


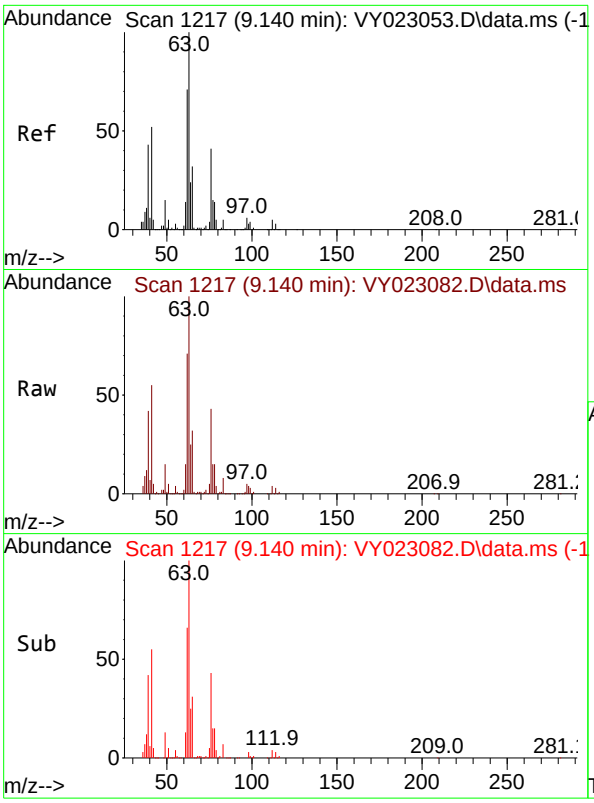


#44
Trichloroethene
Concen: 47.865 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:130 Resp: 247693

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	190.2



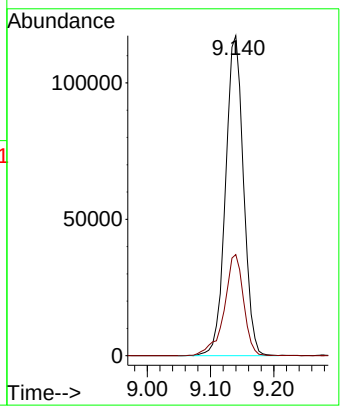


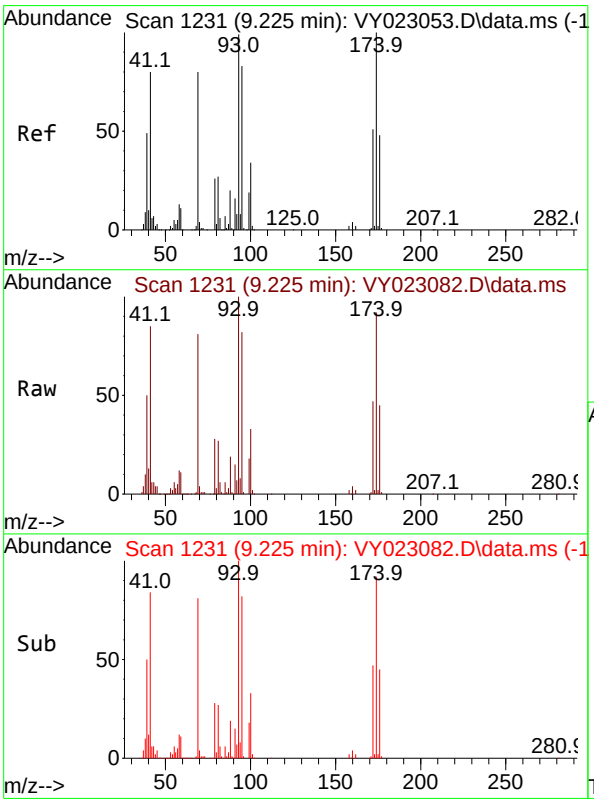
#45
1,2-Dichloropropane
Concen: 50.153 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 231080

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.3	37.9

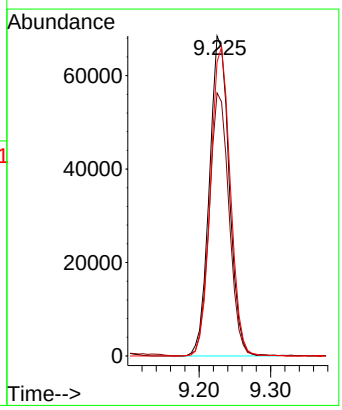


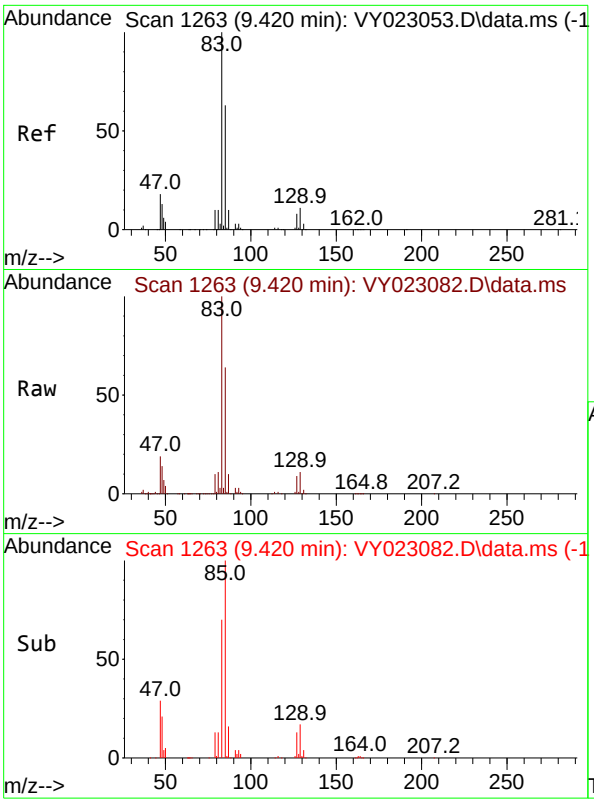


#46
Dibromomethane
Concen: 49.874 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 93 Resp: 131895

Ion	Ratio	Lower	Upper
93	100		
95	81.9	66.5	99.7
174	96.5	81.8	122.8



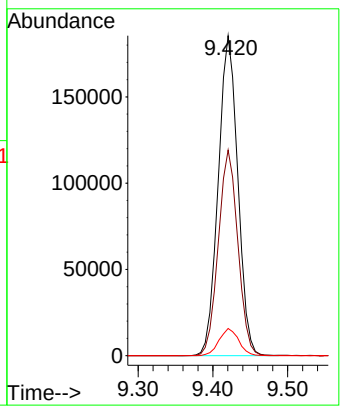


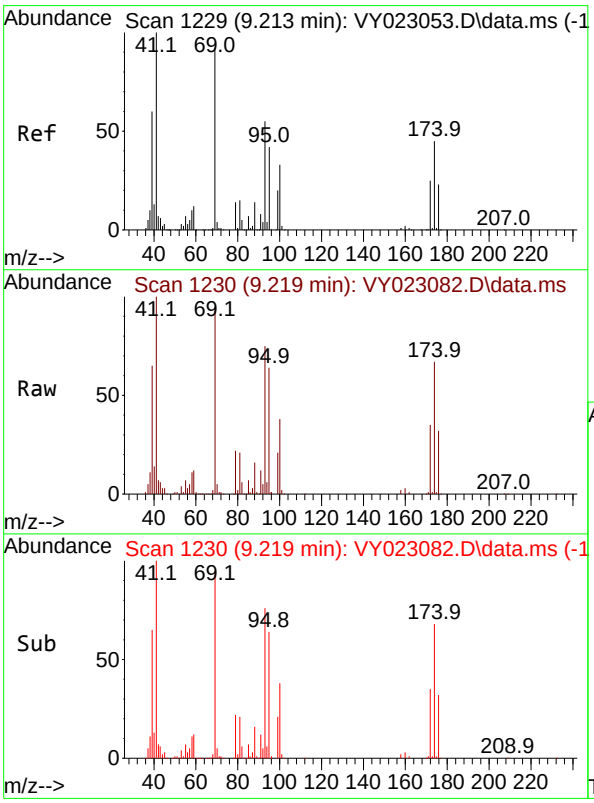
#47
Bromodichloromethane
Concen: 49.561 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 337254

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.2	75.4
127	8.5	6.6	10.0

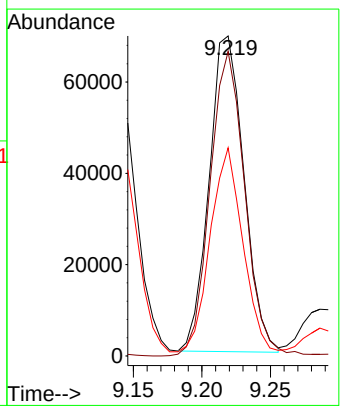


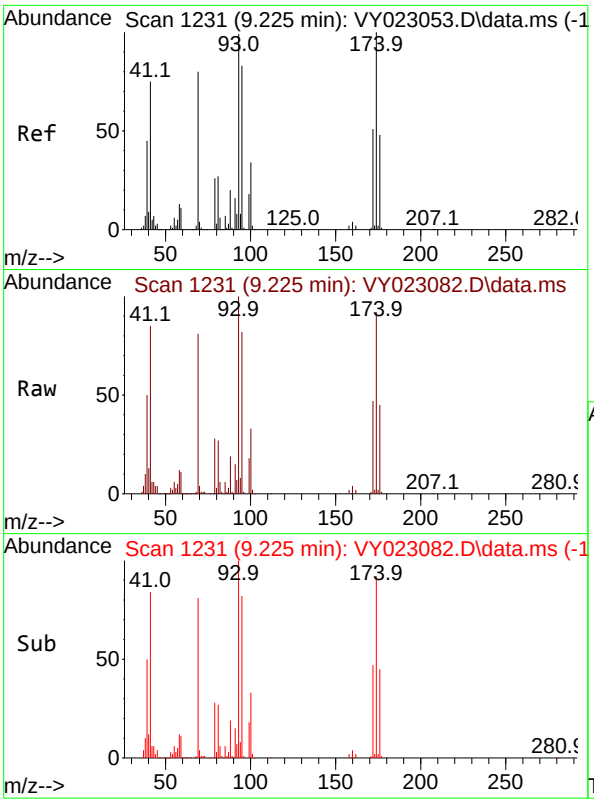


#48
Methyl methacrylate
Concen: 46.388 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 122447

Ion	Ratio	Lower	Upper
41	100		
69	96.6	73.2	109.8
39	60.4	47.0	70.4



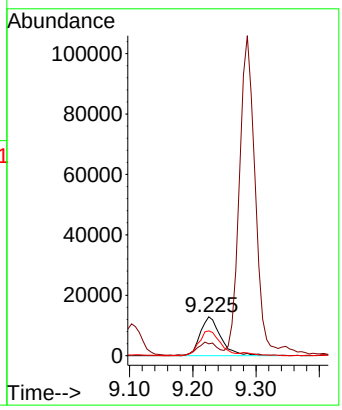


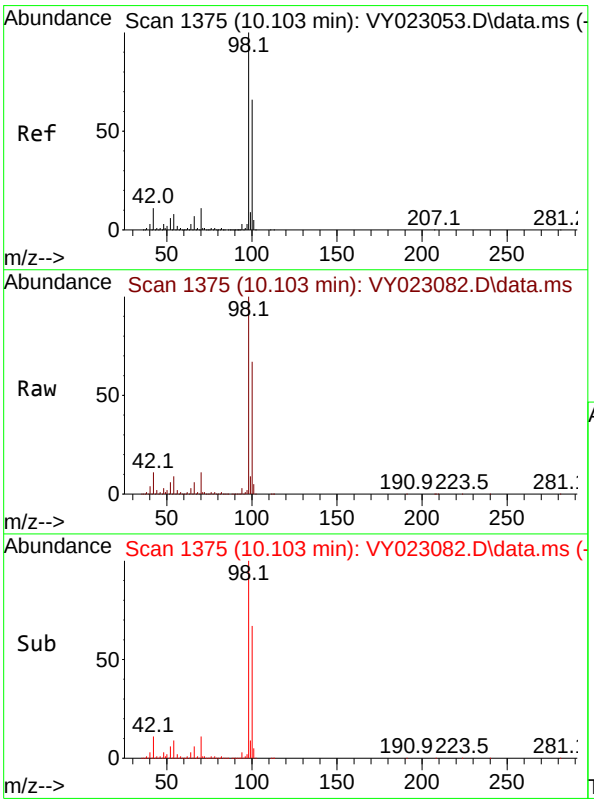
#49
1,4-Dioxane
Concen: 946.941 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 29363

Ion	Ratio	Lower	Upper
88	100		
43	33.1	24.3	36.5
58	64.7	55.4	83.0

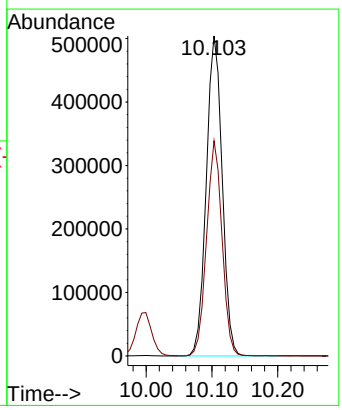


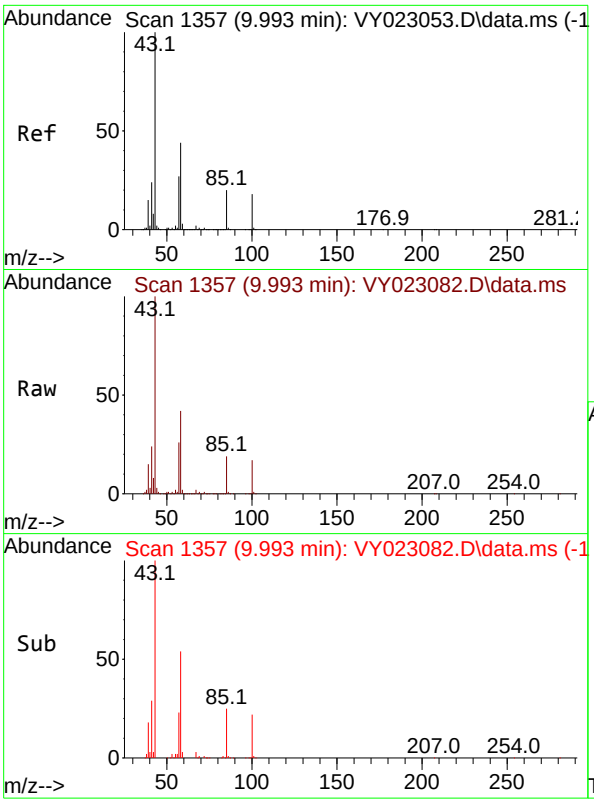


#50
Toluene-d8
Concen: 49.680 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 98 Resp: 848458

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.3	78.5



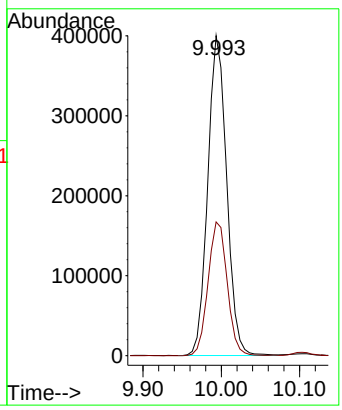


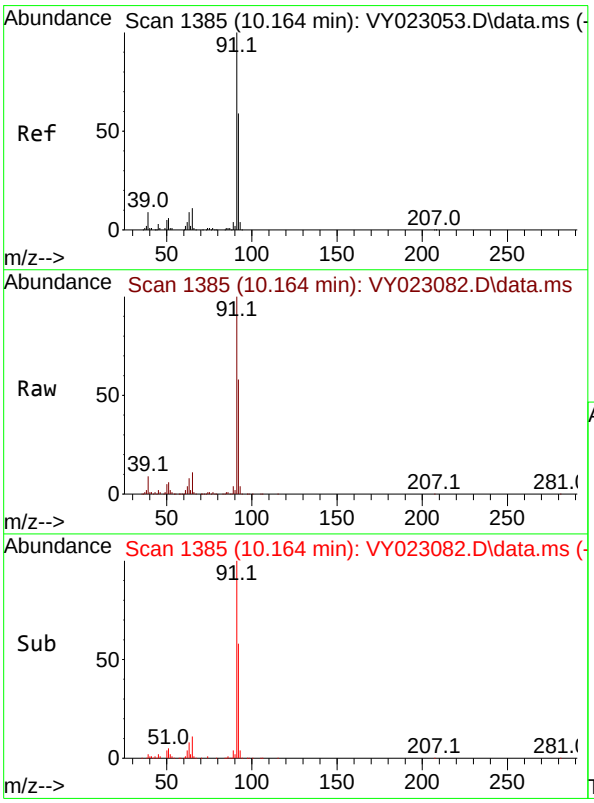
#51
4-Methyl-2-Pentanone
Concen: 235.707 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 670681

Ion	Ratio	Lower	Upper
43	100		
58	42.4	33.5	50.3

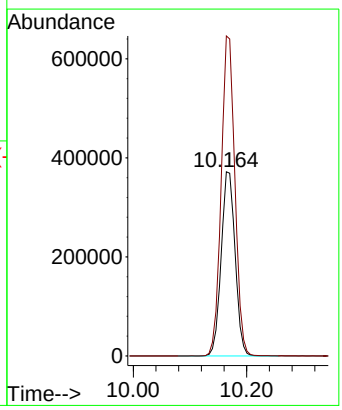


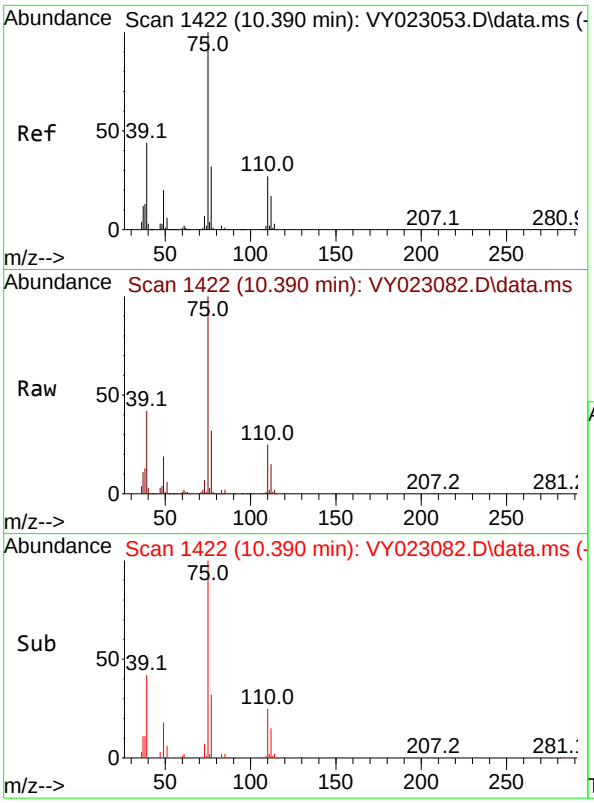


#52
Toluene
Concen: 49.890 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 92 Resp: 634517

Ion	Ratio	Lower	Upper
92	100		
91	171.1	136.4	204.6



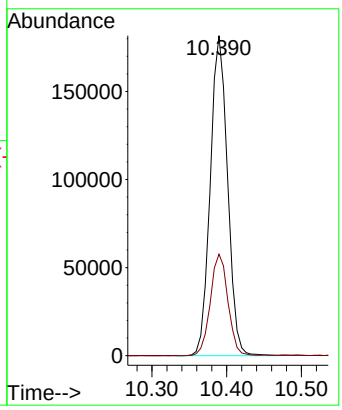


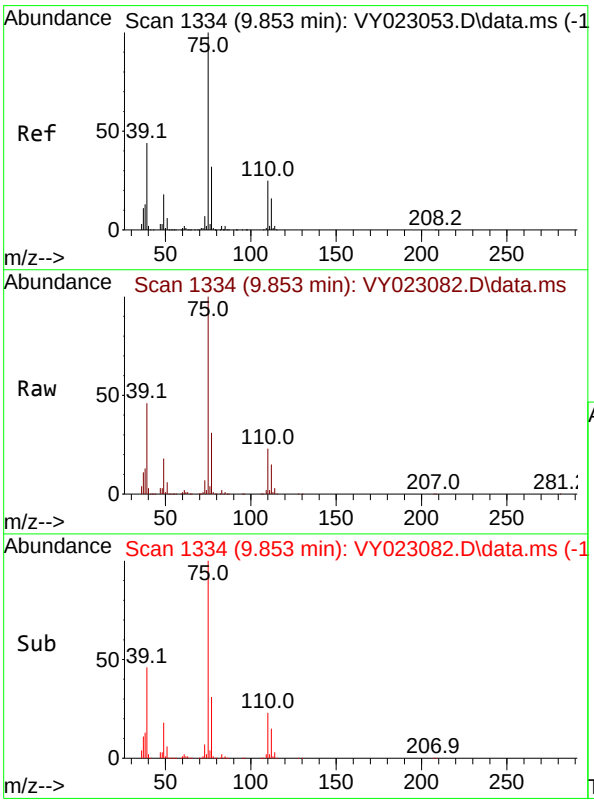
#53
t-1,3-Dichloropropene
Concen: 47.408 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 292128

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5

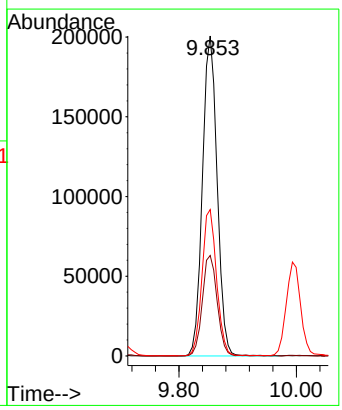


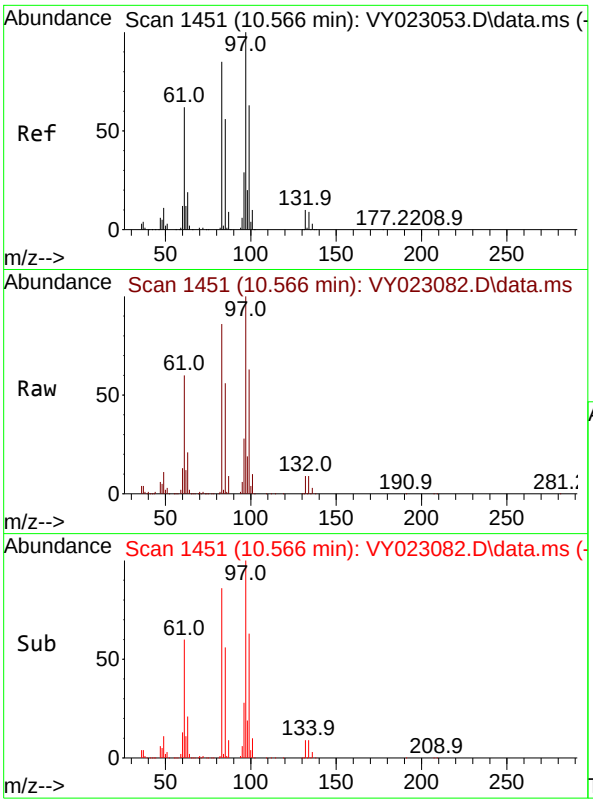


#54
cis-1,3-Dichloropropene
Concen: 47.881 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 348886

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	45.7	35.6	53.4



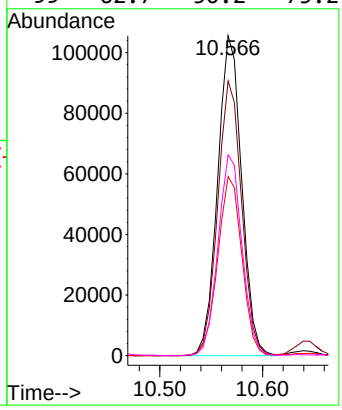


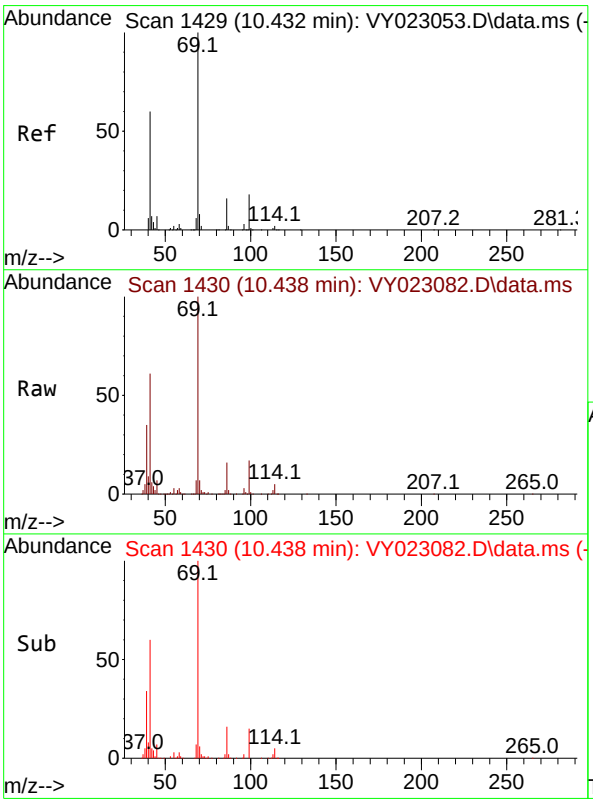
#55
1,1,2-Trichloroethane
Concen: 48.399 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 171270

Ion	Ratio	Lower	Upper
97	100		
83	85.9	67.7	101.5
85	55.9	44.5	66.7
99	62.7	50.2	75.2

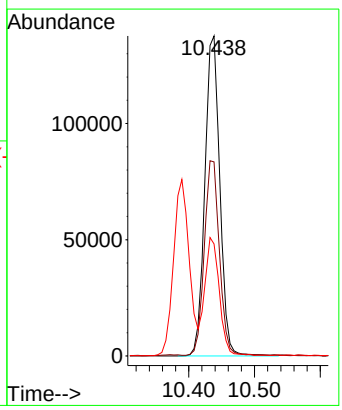


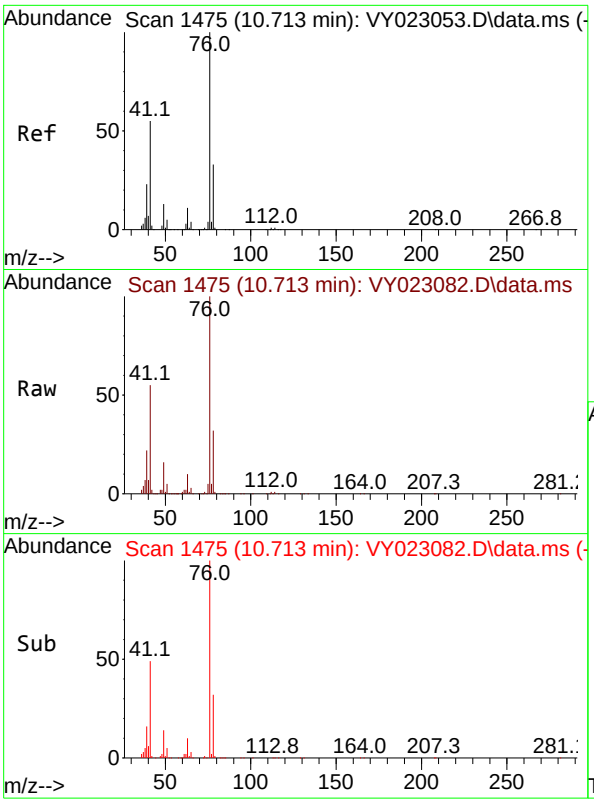


#56
Ethyl methacrylate
Concen: 48.164 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 69 Resp: 218091

Ion	Ratio	Lower	Upper
69	100		
41	61.3	48.6	72.8
39	35.8	27.0	40.4



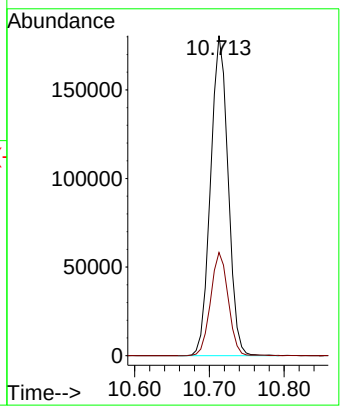


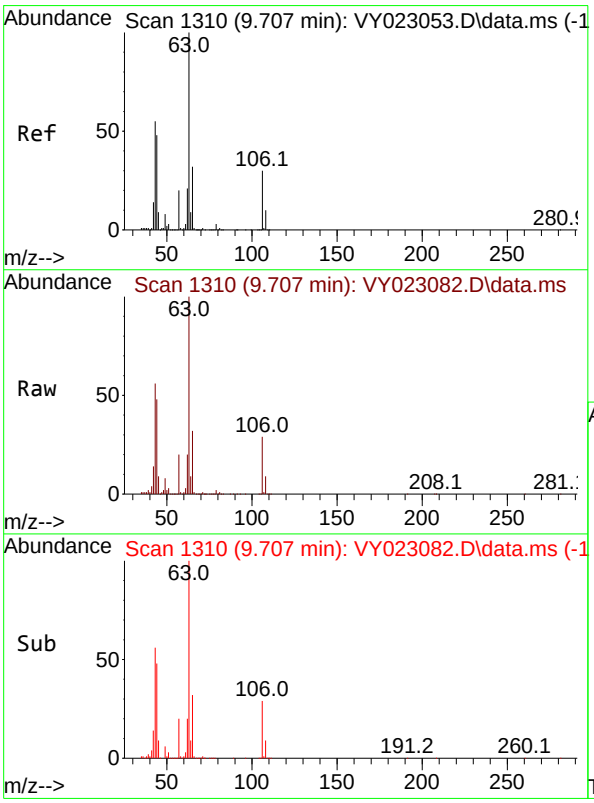
#57
1,3-Dichloropropane
Concen: 49.039 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 294300

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.0	39.0

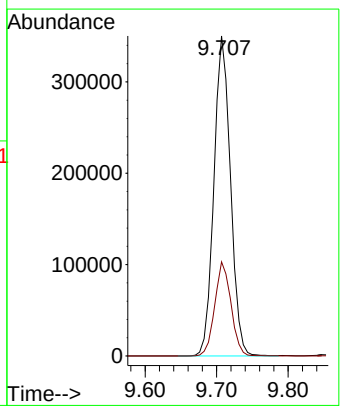


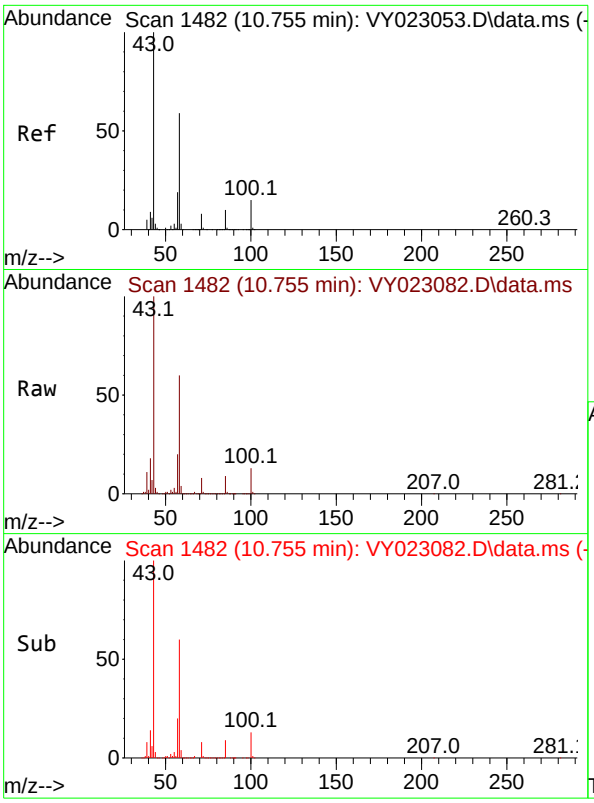


#58
2-Chloroethyl Vinyl ether
Concen: 263.718 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 563277

Ion	Ratio	Lower	Upper
63	100		
106	28.8	23.2	34.8



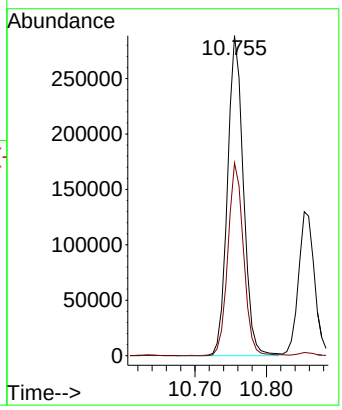


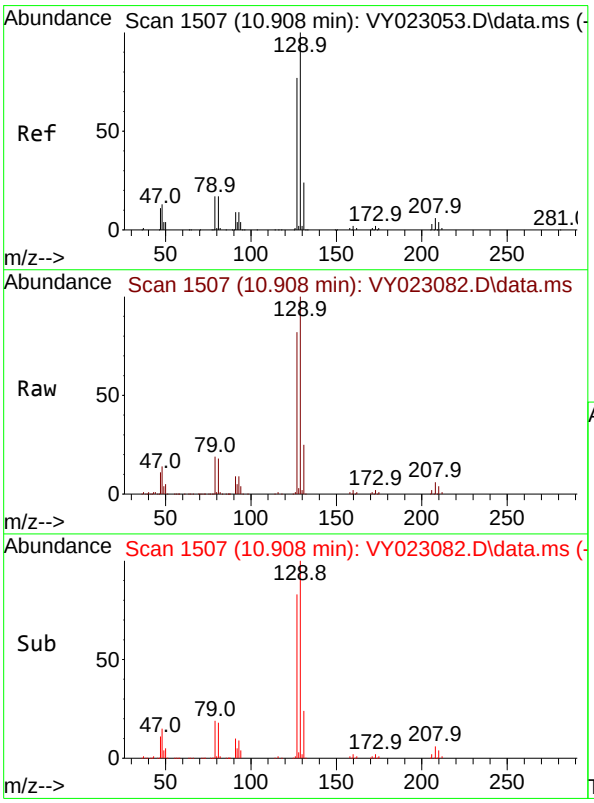
#59
2-Hexanone
Concen: 229.542 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 444743

Ion	Ratio	Lower	Upper
43	100		
58	59.4	29.5	88.5

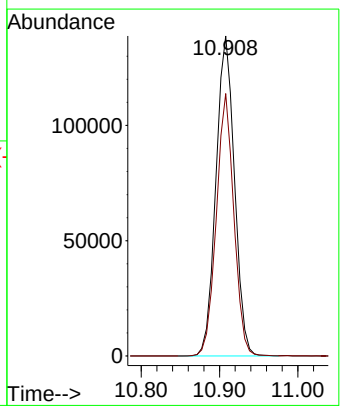


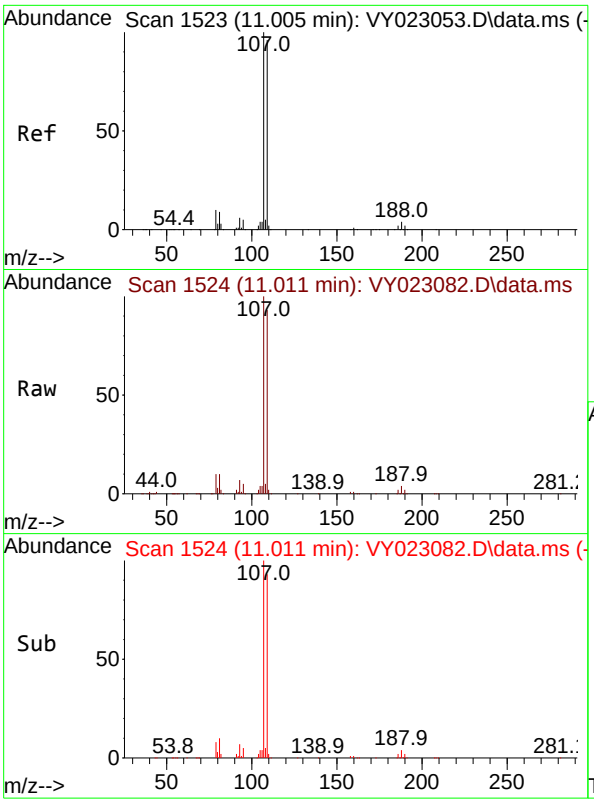


#60
Dibromochloromethane
Concen: 48.956 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:129 Resp: 228588

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.5



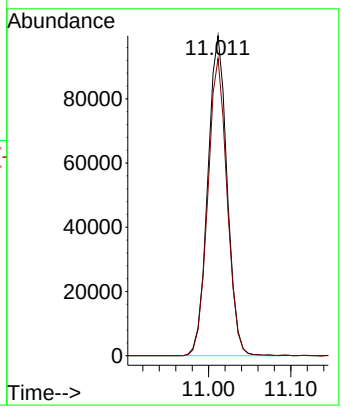


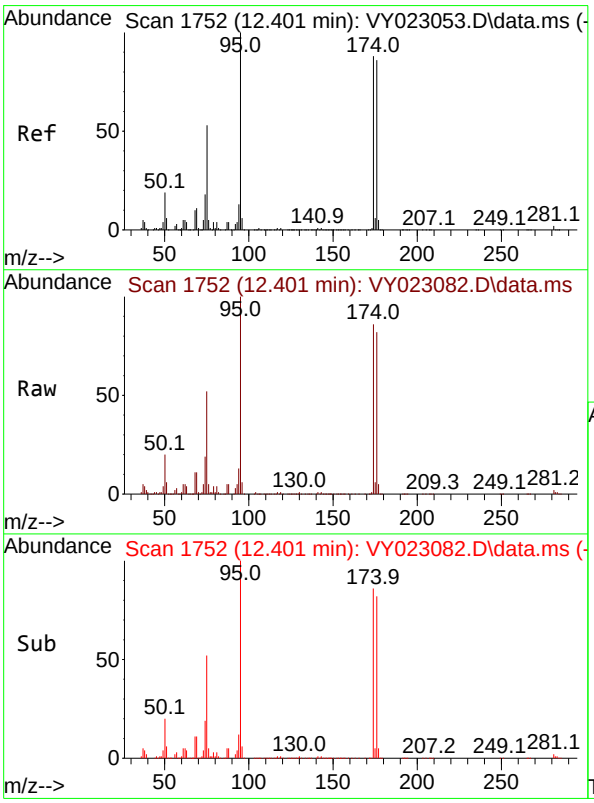
#61
1,2-Dibromoethane
Concen: 48.817 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 162363

Ion	Ratio	Lower	Upper
107	100		
109	92.4	75.6	113.4

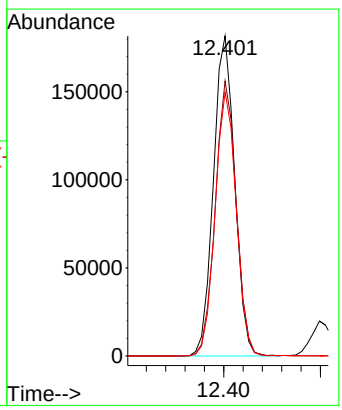


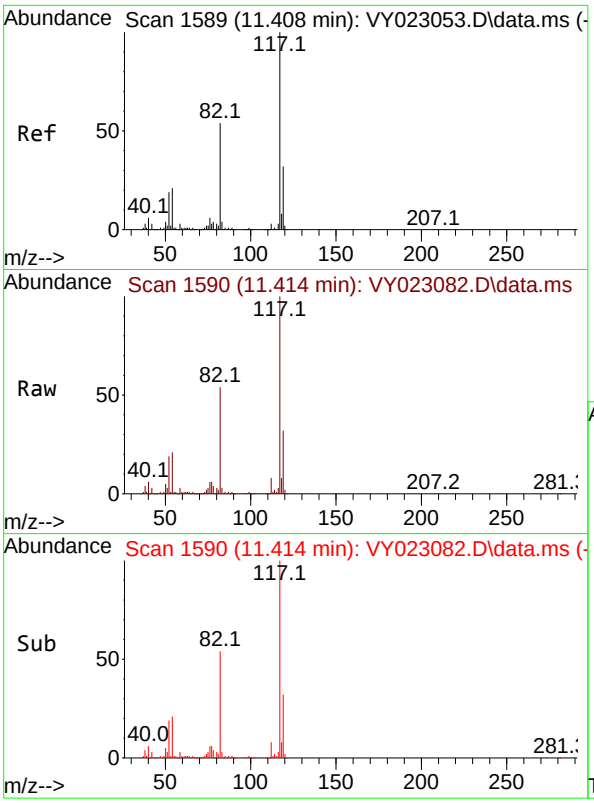


#62
4-Bromofluorobenzene
Concen: 50.453 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 95 Resp: 277110

Ion	Ratio	Lower	Upper
95	100		
174	84.6	0.0	171.6
176	82.0	0.0	167.6



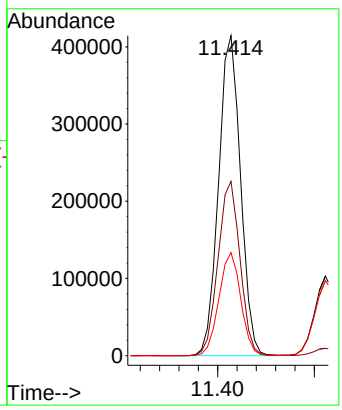


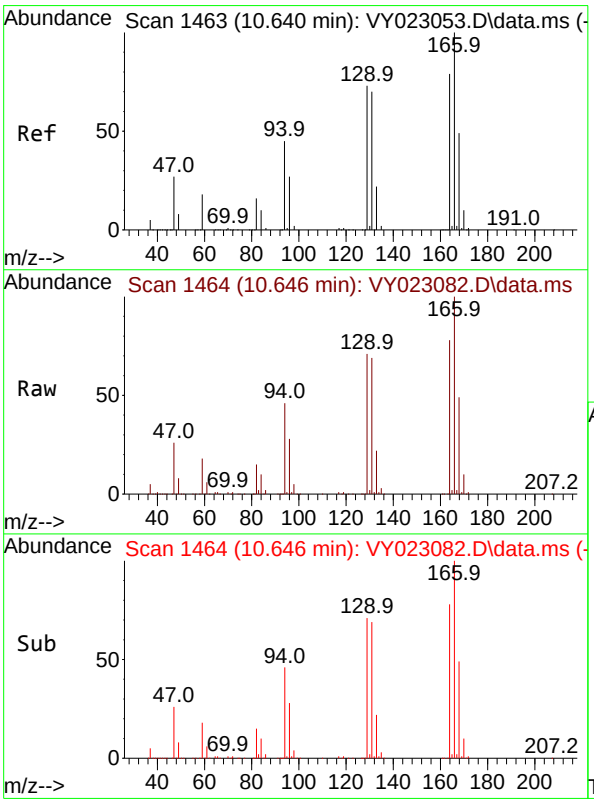
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 653170

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	32.2	25.6	38.4

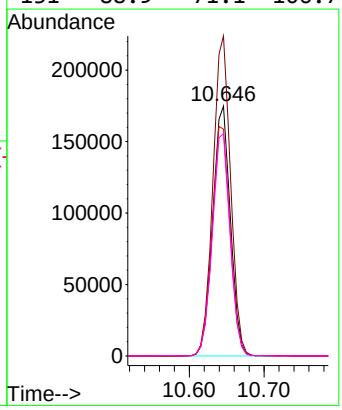


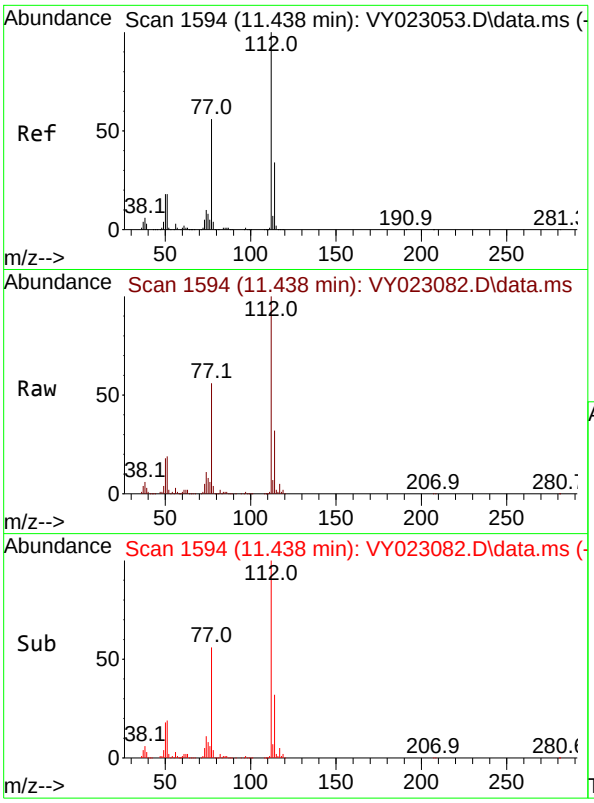


#64
Tetrachloroethene
Concen: 49.476 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:164 Resp: 288562

Ion	Ratio	Lower	Upper
164	100		
166	128.1	101.1	151.7
129	90.8	74.0	111.0
131	88.9	71.1	106.7



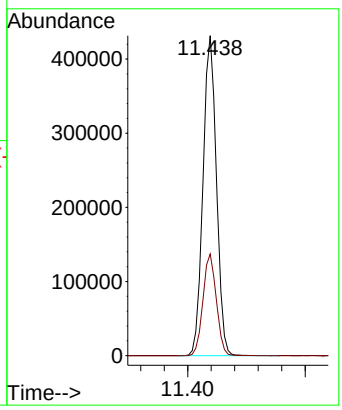


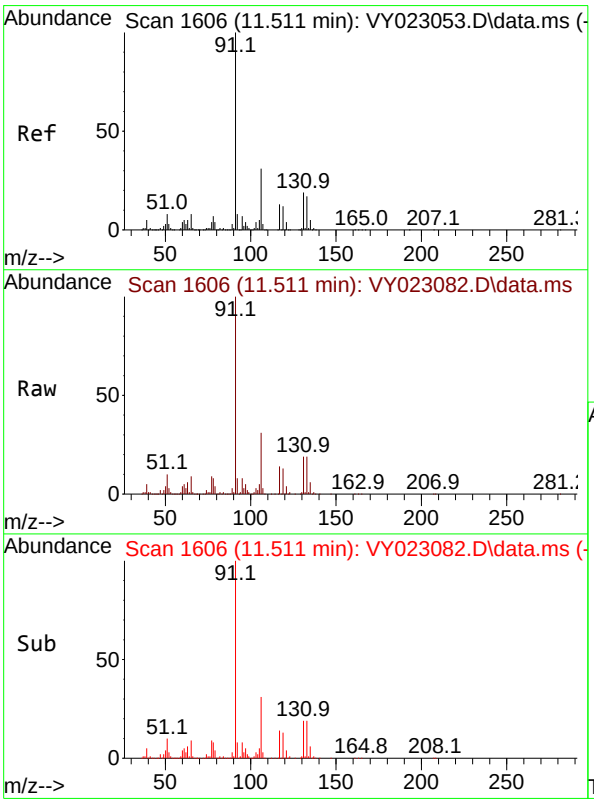
#65
Chlorobenzene
Concen: 48.595 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 684648

Ion	Ratio	Lower	Upper
112	100		
114	31.8	27.0	40.4

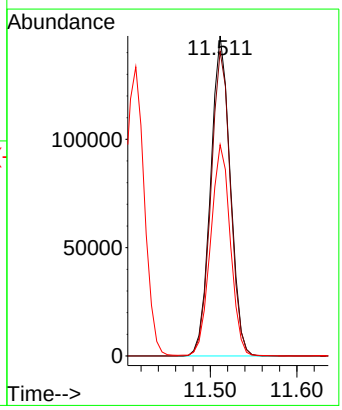


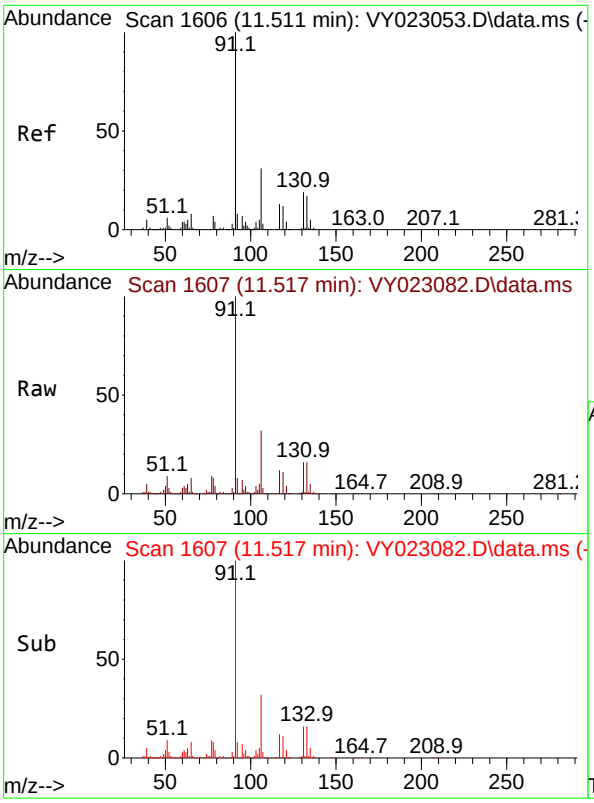


#66
1,1,1,2-Tetrachloroethane
Concen: 48.615 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:131 Resp: 232459

Ion	Ratio	Lower	Upper
131	100		
133	95.0	46.9	140.6
119	66.7	33.2	99.6



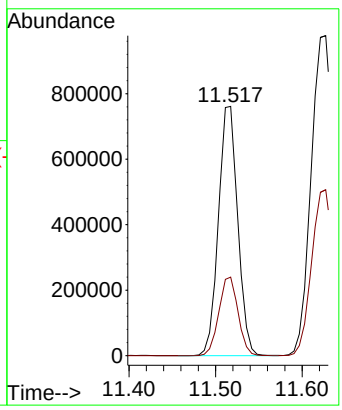


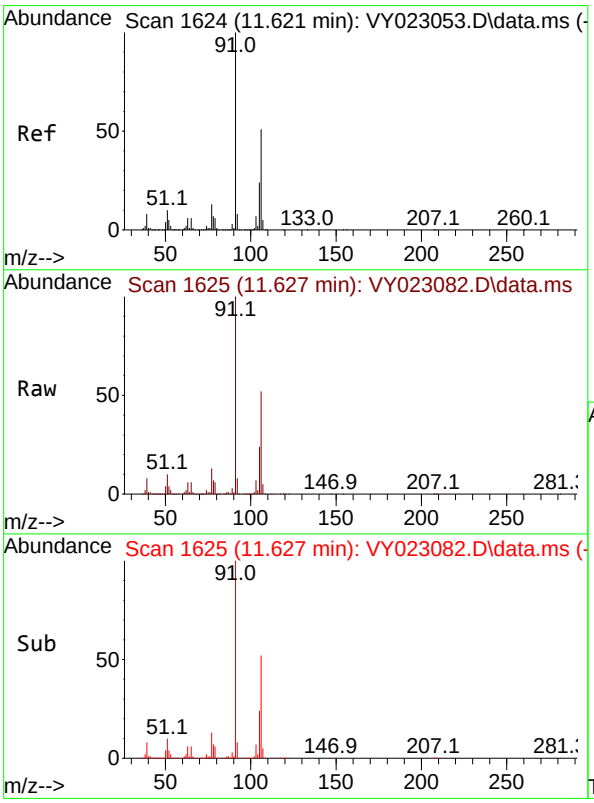
#67
Ethyl Benzene
Concen: 48.633 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1179134

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.0	37.4

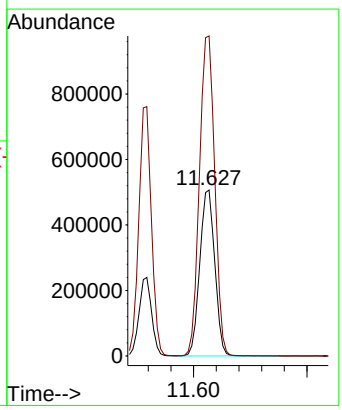


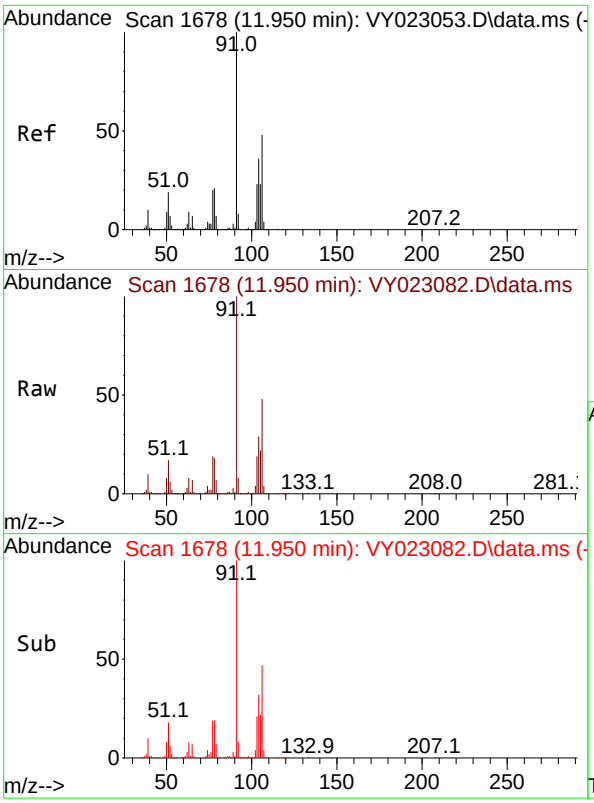


#68
m/p-Xylenes
Concen: 98.062 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:106 Resp: 928592

Ion	Ratio	Lower	Upper
106	100		
91	197.0	158.6	238.0



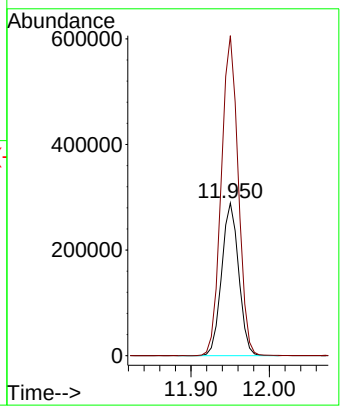


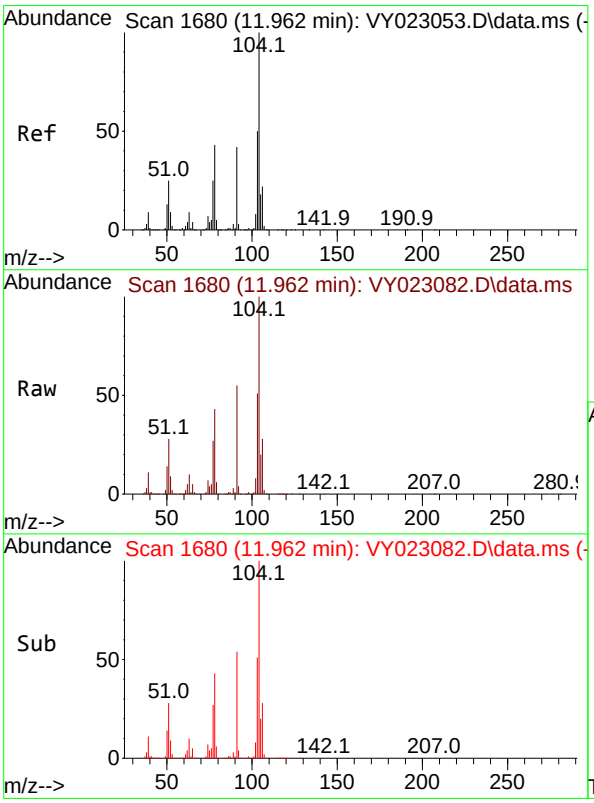
#69
o-Xylene
Concen: 49.346 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 437649

Ion	Ratio	Lower	Upper
106	100		
91	209.1	103.2	309.4

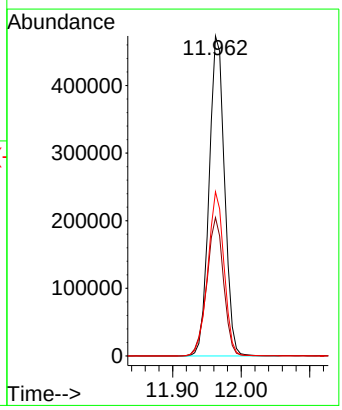


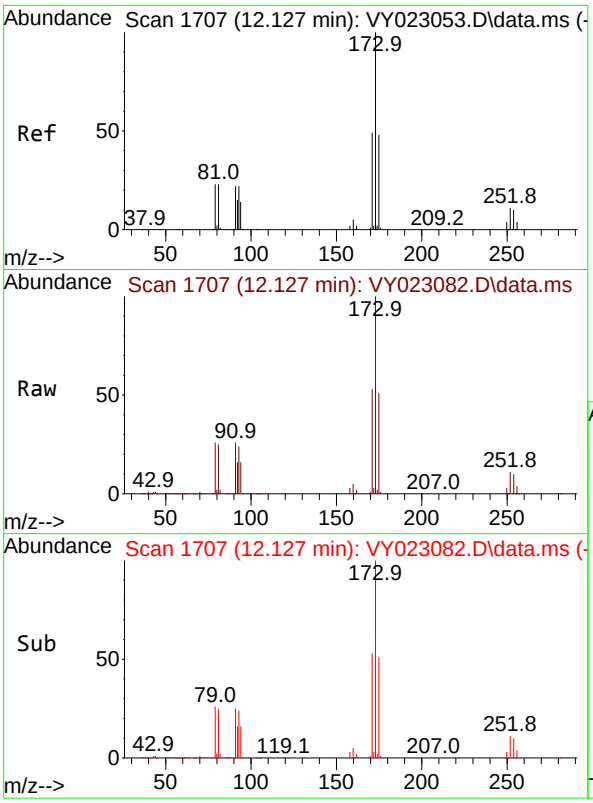


#70
Styrene
Concen: 51.107 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:104 Resp: 741269

Ion	Ratio	Lower	Upper
104	100		
78	46.9	38.5	57.7
103	54.1	43.7	65.5



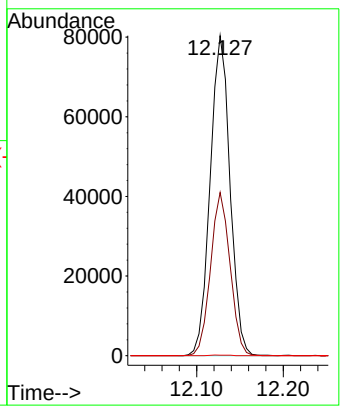


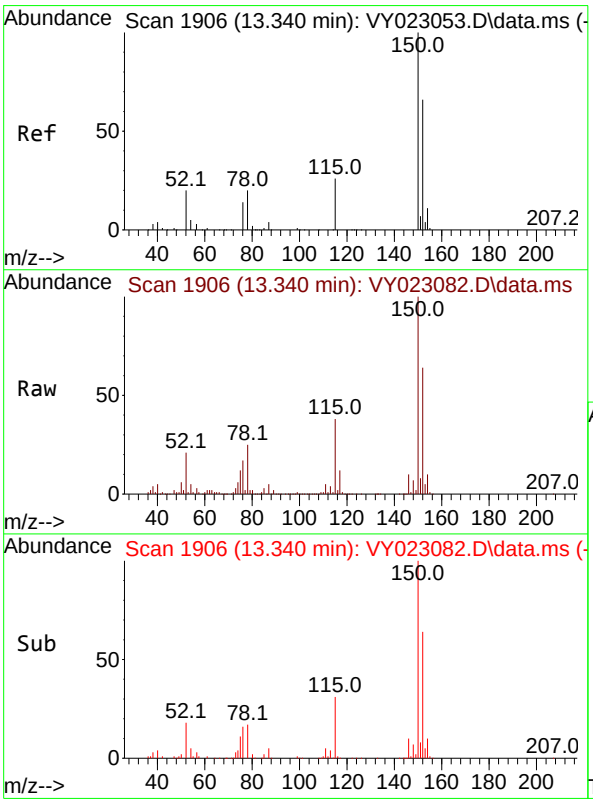
#71
Bromoform
Concen: 45.809 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 128021

Ion	Ratio	Lower	Upper
173	100		
175	50.0	23.9	71.7
254	0.2	0.1	0.1#

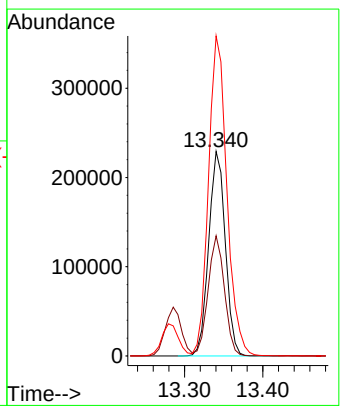


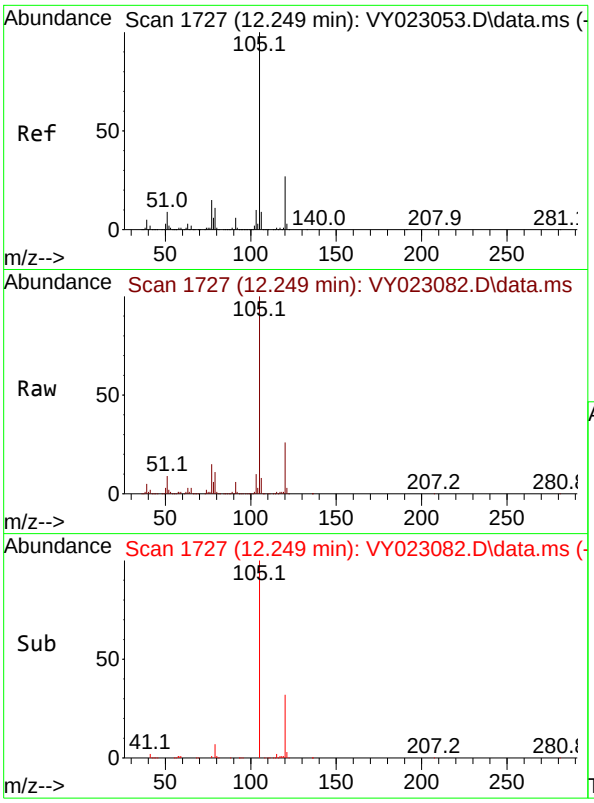


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:152 Resp: 337955

Ion	Ratio	Lower	Upper
152	100		
115	57.6	28.2	84.6
150	172.7	0.0	348.0



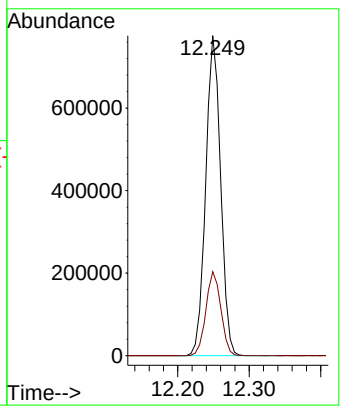


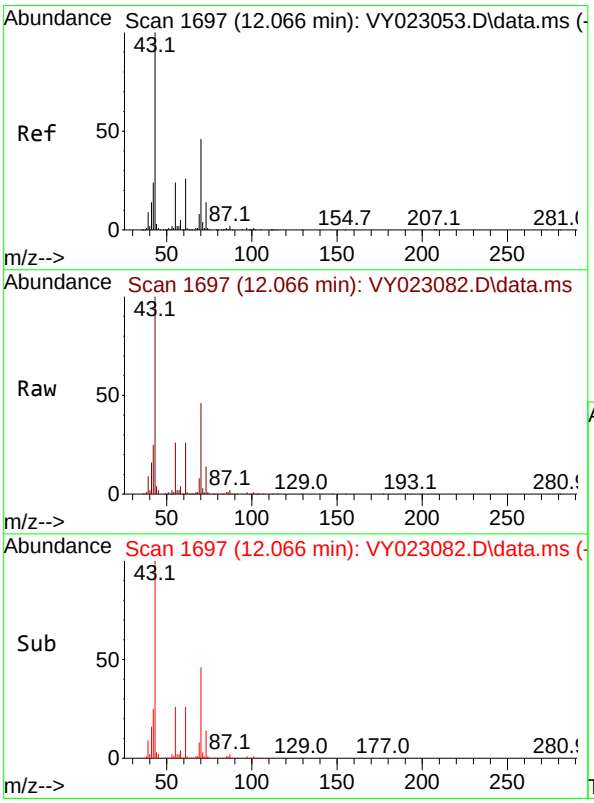
#73
Isopropylbenzene
Concen: 46.989 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1120808

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.4	40.2

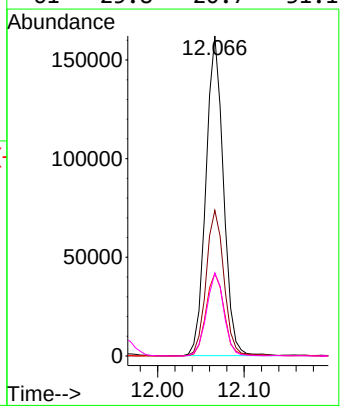


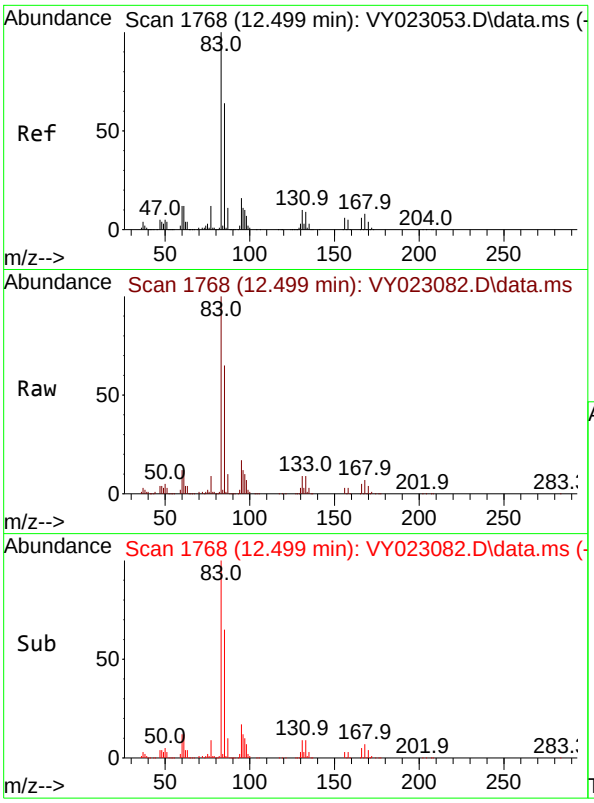


#74
N-amyl acetate
Concen: 45.070 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 227982

Ion	Ratio	Lower	Upper
43	100		
70	46.7	37.5	56.3
55	27.0	20.7	31.1
61	25.8	20.7	31.1



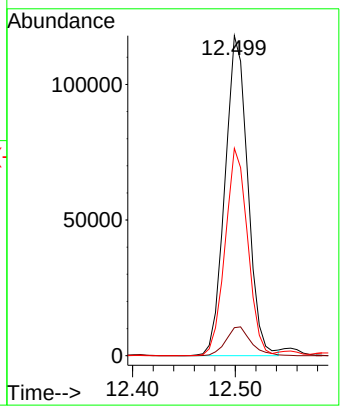


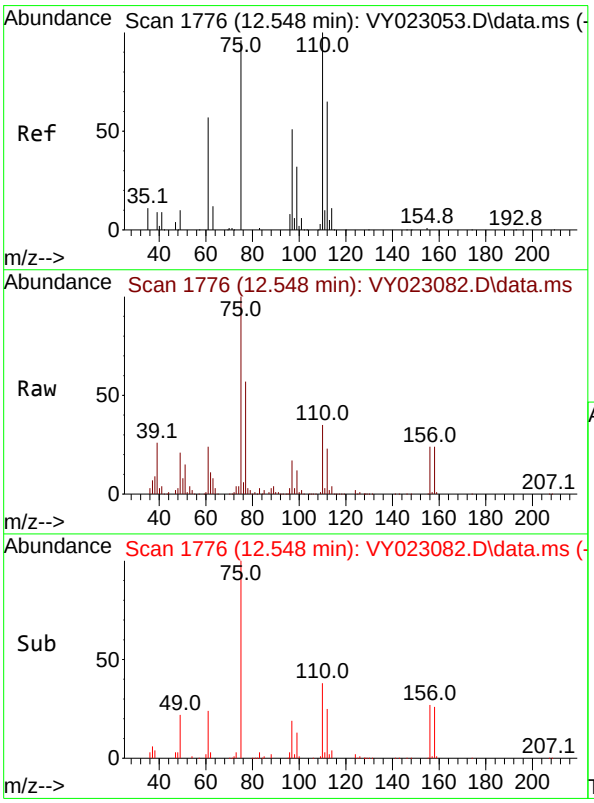
#75
1,1,2,2-Tetrachloroethane
Concen: 44.662 ug/l
RT: 12.499 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 181898

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.3
85	64.0	31.8	95.3

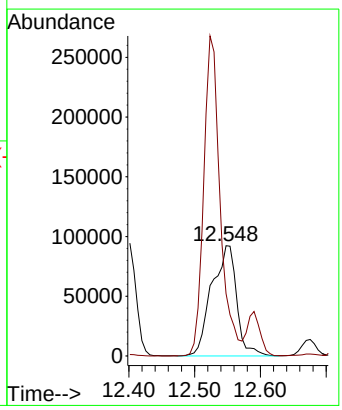


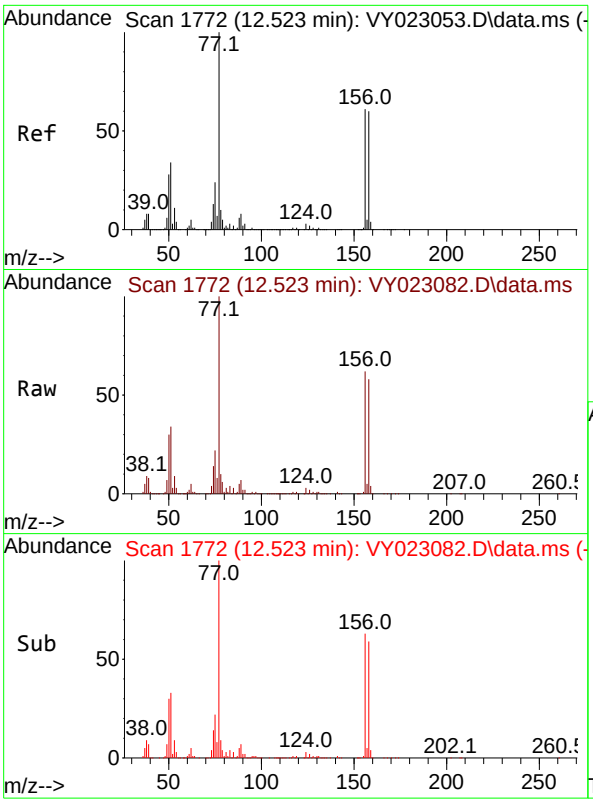


#76
1,2,3-Trichloropropane
Concen: 74.579 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 243249

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



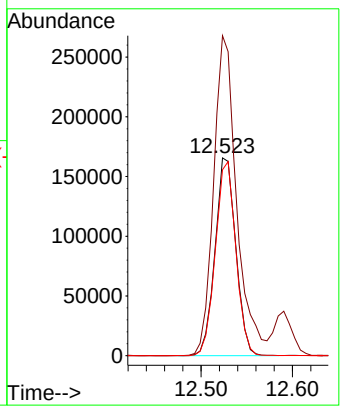


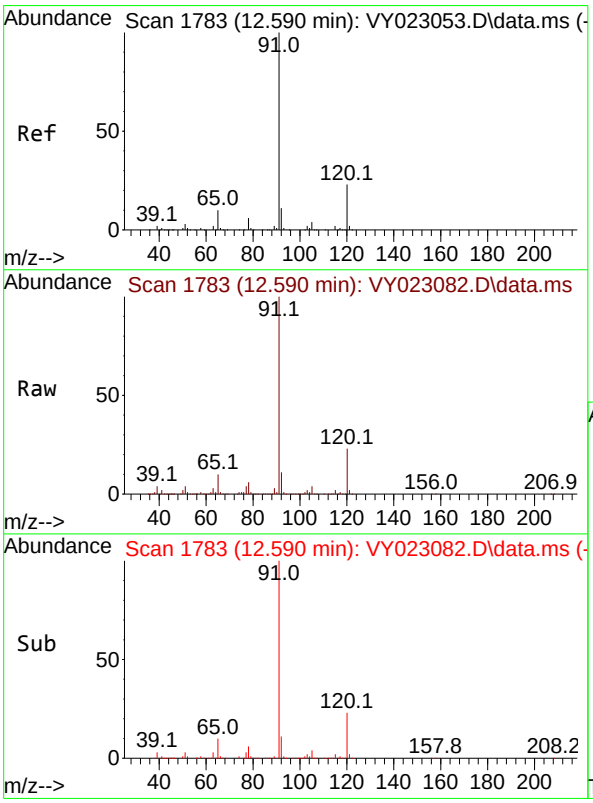
#77
Bromobenzene
Concen: 45.880 ug/l
RT: 12.523 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 261080

Ion	Ratio	Lower	Upper
156	100		
77	179.7	88.1	264.4
158	97.1	48.0	144.0

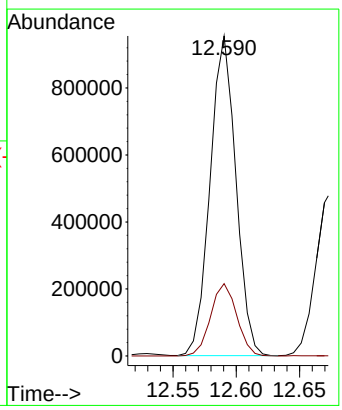


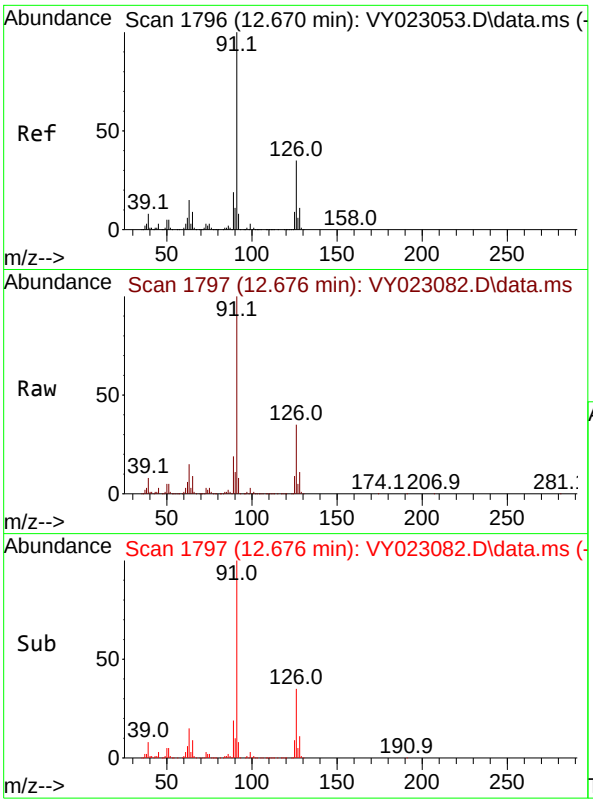


#78
n-propylbenzene
Concen: 47.608 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 1351965

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



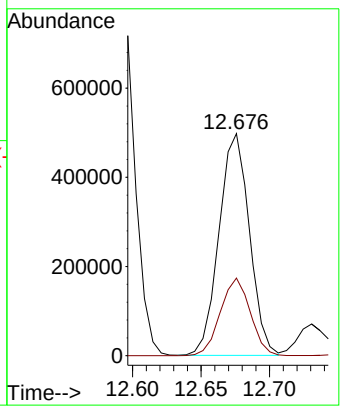


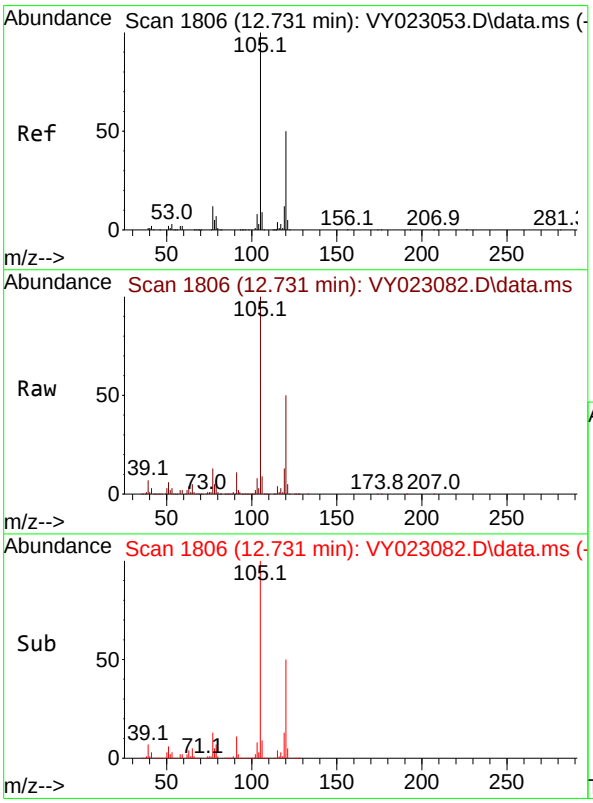
#79
2-Chlorotoluene
Concen: 47.220 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 768315

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.4	52.3

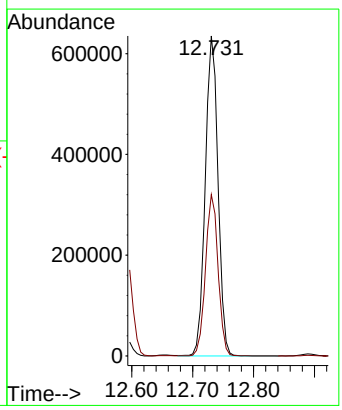


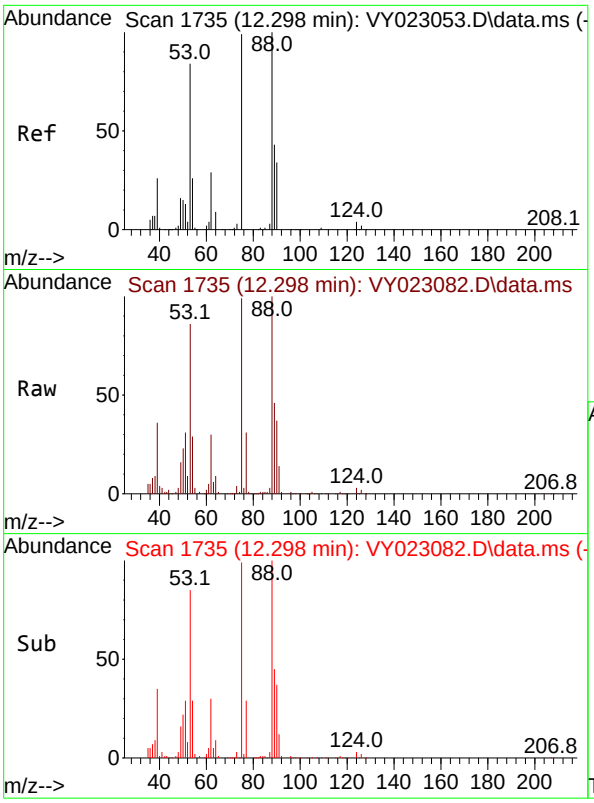


#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 925355

Ion	Ratio	Lower	Upper
105	100		
120	49.9	24.8	74.4



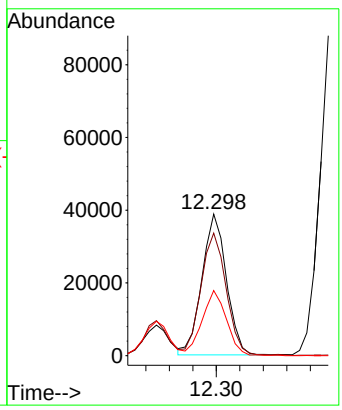


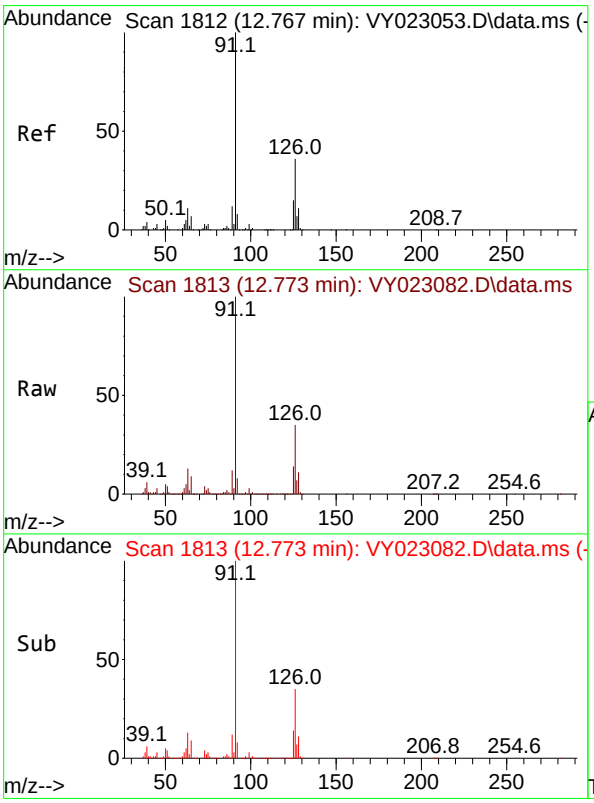
#81
trans-1,4-Dichloro-2-butene
Concen: 41.468 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 55874

Ion	Ratio	Lower	Upper
75	100		
53	89.1	70.8	106.2
89	46.0	38.1	57.1

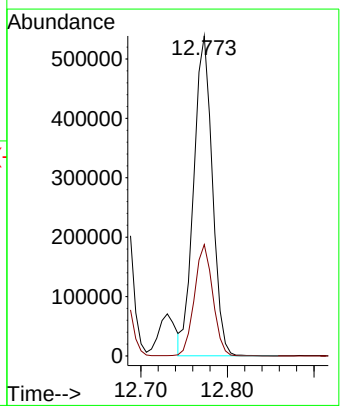


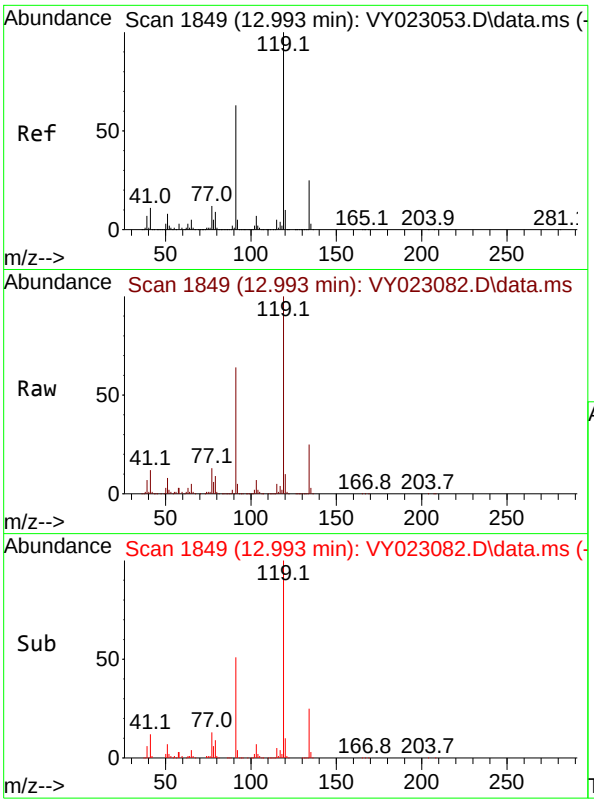


#82
4-Chlorotoluene
Concen: 47.468 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 801214

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.3	52.0



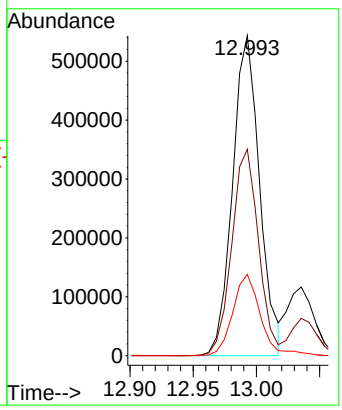


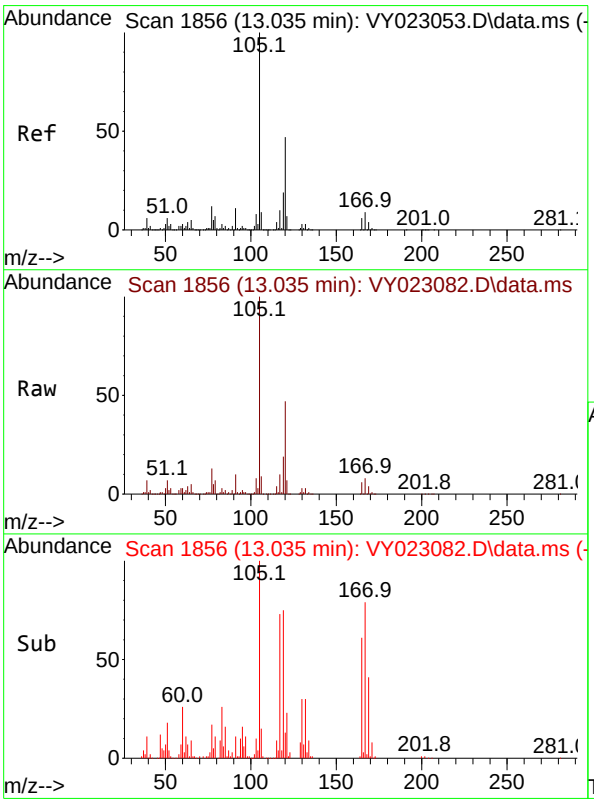
#83
tert-Butylbenzene
Concen: 46.538 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 810256

Ion	Ratio	Lower	Upper
119	100		
91	63.8	31.6	94.8
134	26.0	12.9	38.7

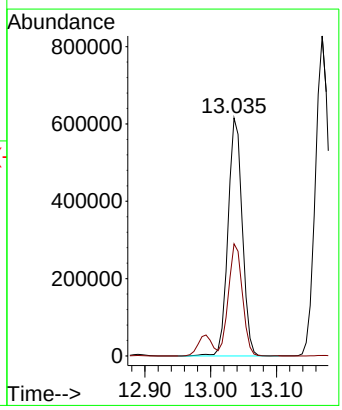


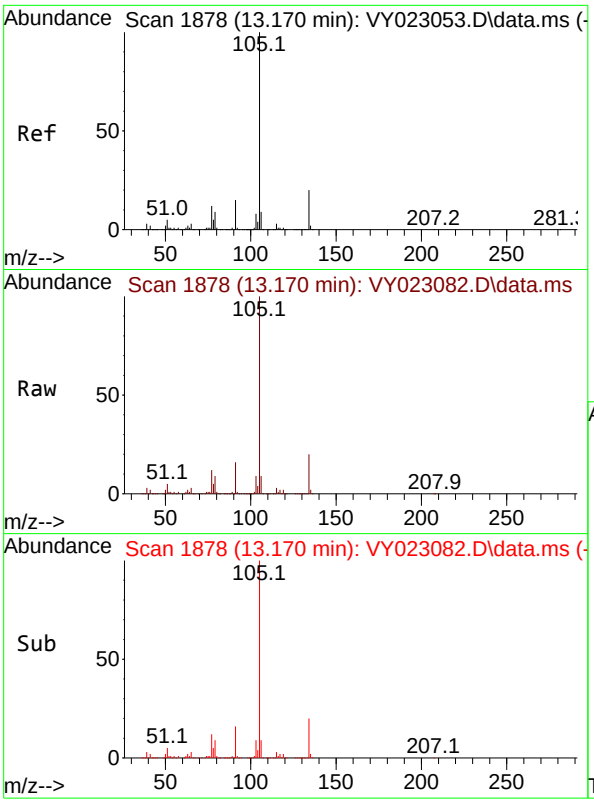


#84
1,2,4-Trimethylbenzene
Concen: 48.337 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 927586

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



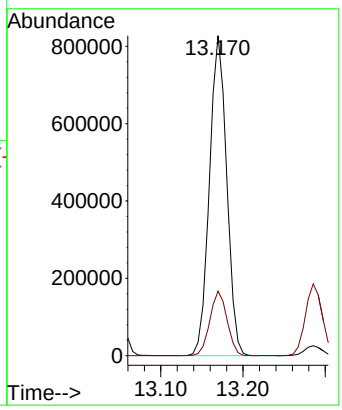


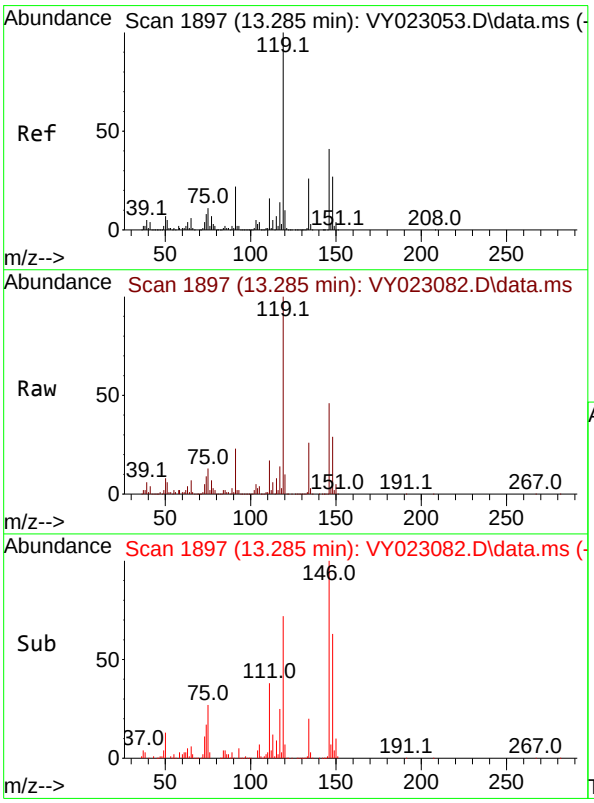
#85
sec-Butylbenzene
Concen: 47.086 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1204282

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

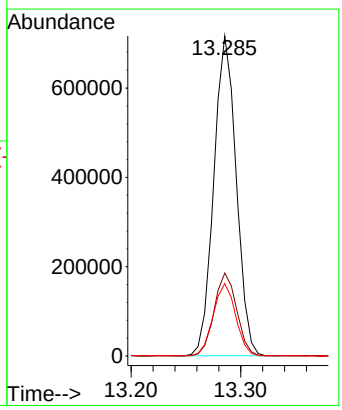


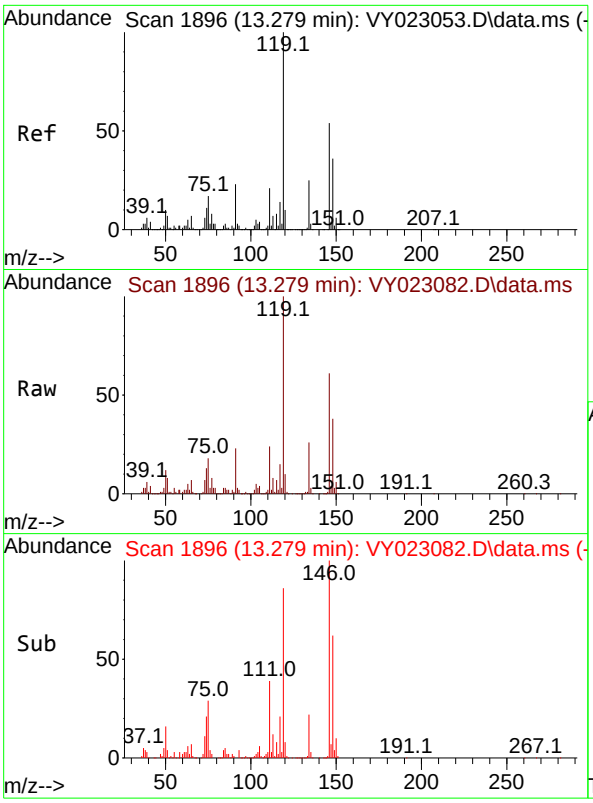


#86
p-Isopropyltoluene
Concen: 48.033 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:119 Resp: 1019726

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.2	39.6
91	22.7	11.3	33.8



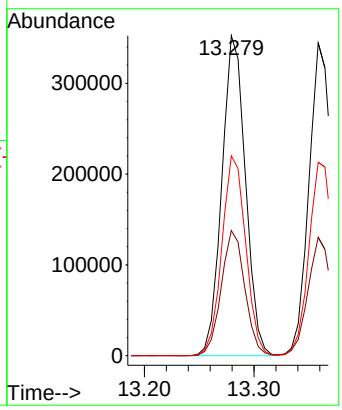


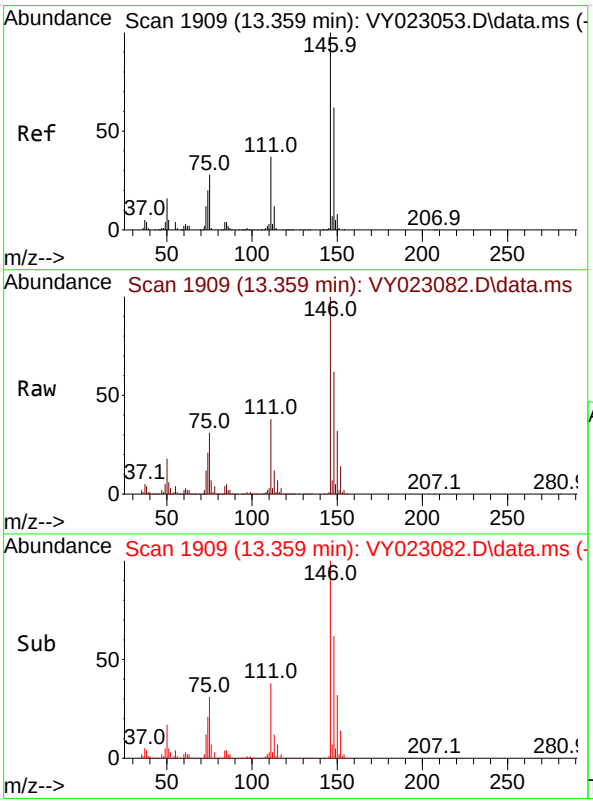
#87
1,3-Dichlorobenzene
Concen: 46.997 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 527390

Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.6	58.7
148	63.1	32.5	97.5

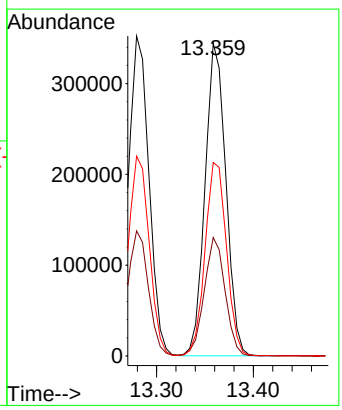


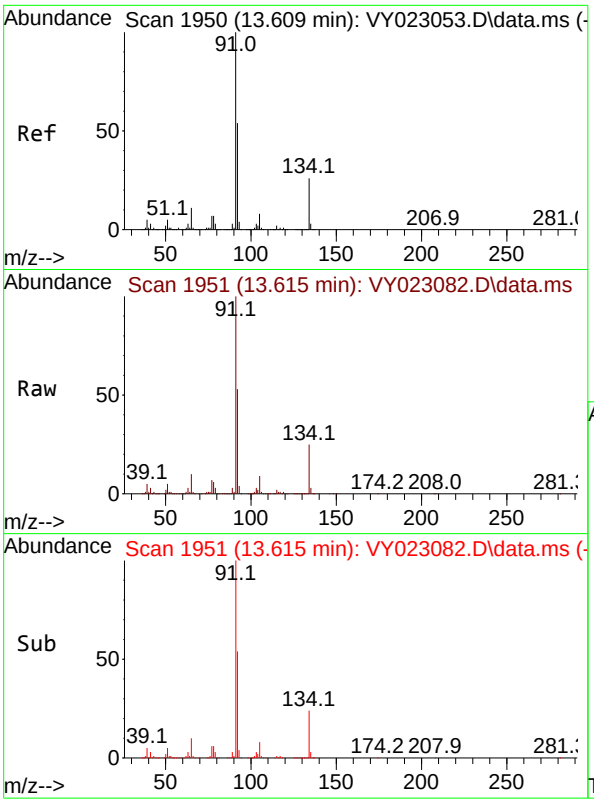


#88
1,4-Dichlorobenzene
Concen: 46.447 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 517037

Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.1
148	63.9	31.6	94.7



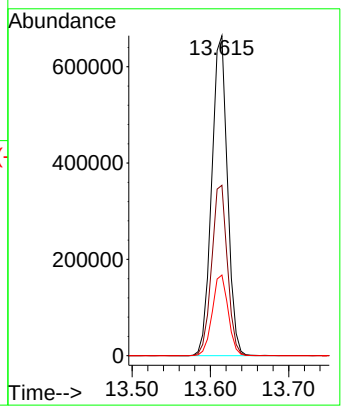


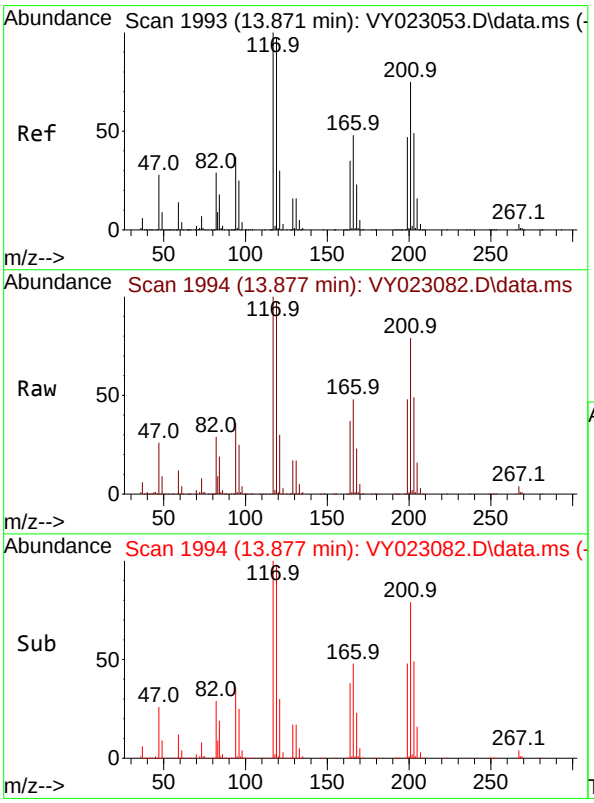
#89
n-Butylbenzene
Concen: 47.492 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 926009

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.9	80.7
134	25.5	13.2	39.5

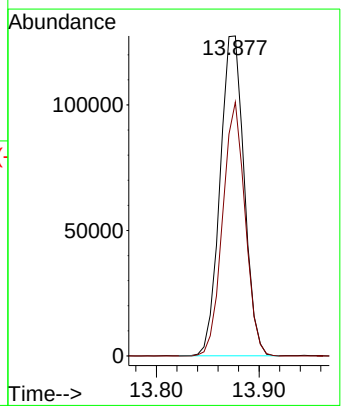


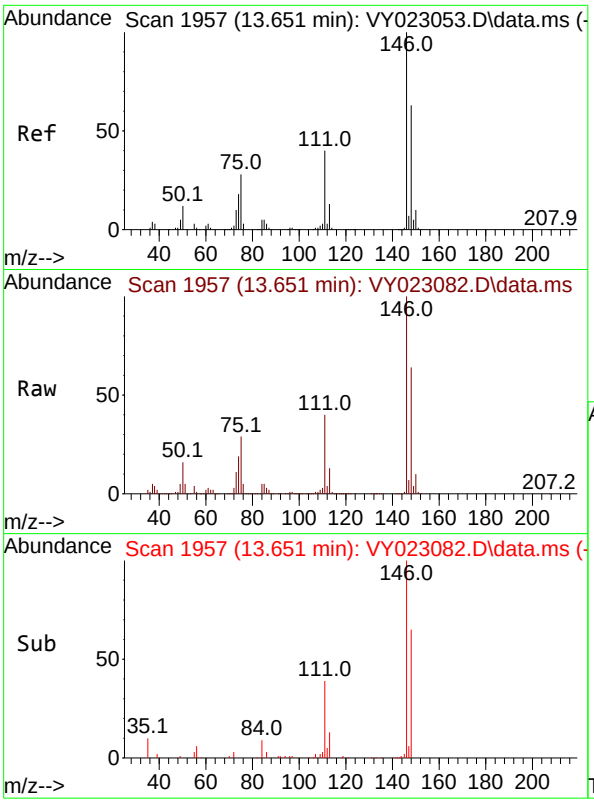


#90
Hexachloroethane
Concen: 47.698 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 207292

Ion	Ratio	Lower	Upper
117	100		
201	73.9	38.4	115.1



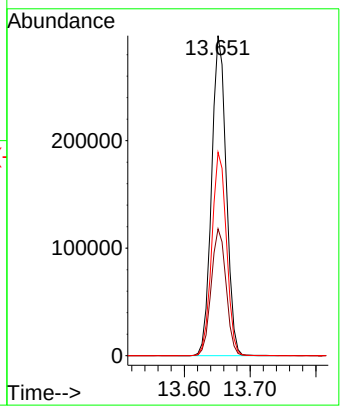


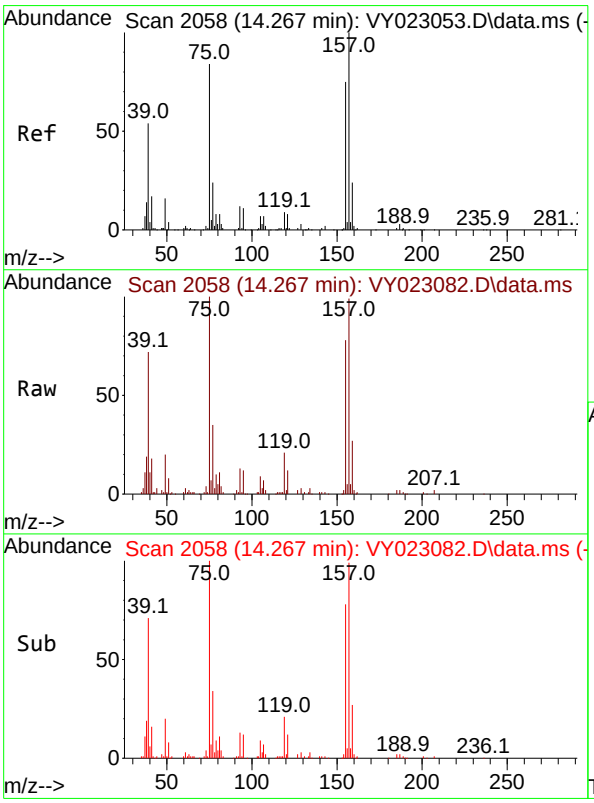
#91
1,2-Dichlorobenzene
Concen: 46.764 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 460225

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.8
148	63.8	32.2	96.6

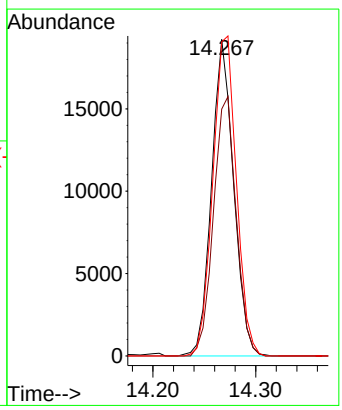


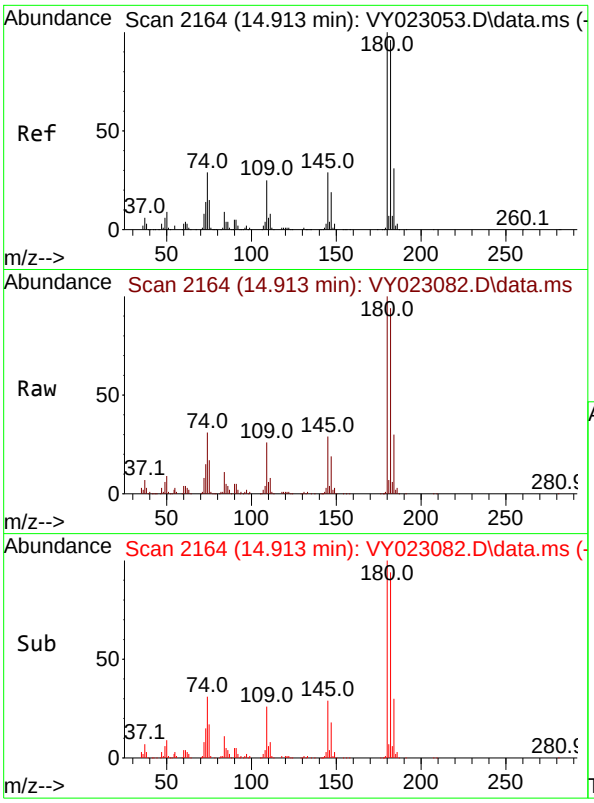


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.213 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 28670

Ion	Ratio	Lower	Upper
75	100		
155	84.2	43.9	131.6
157	107.8	57.2	171.6



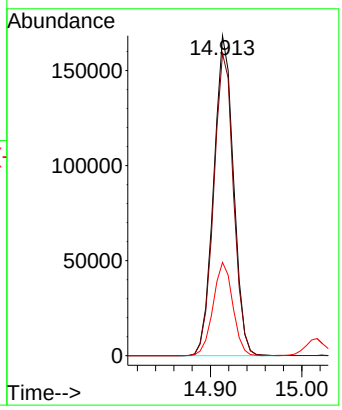


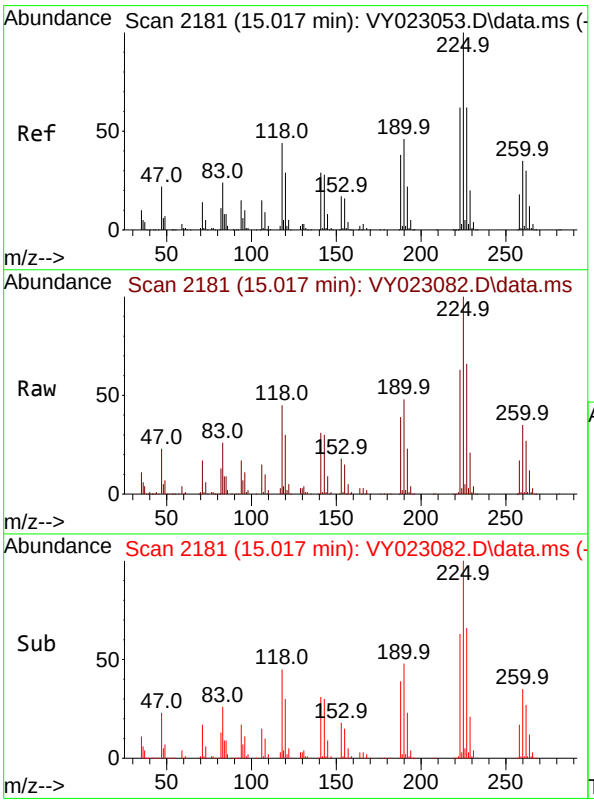
#93
1,2,4-Trichlorobenzene
Concen: 43.501 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 253171

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.8	140.4
145	29.0	14.4	43.4

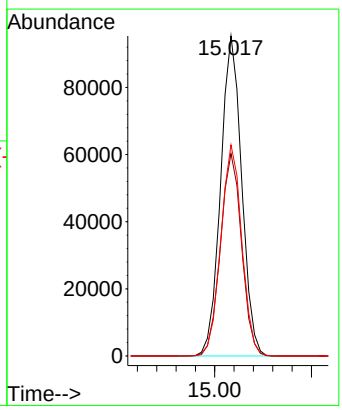


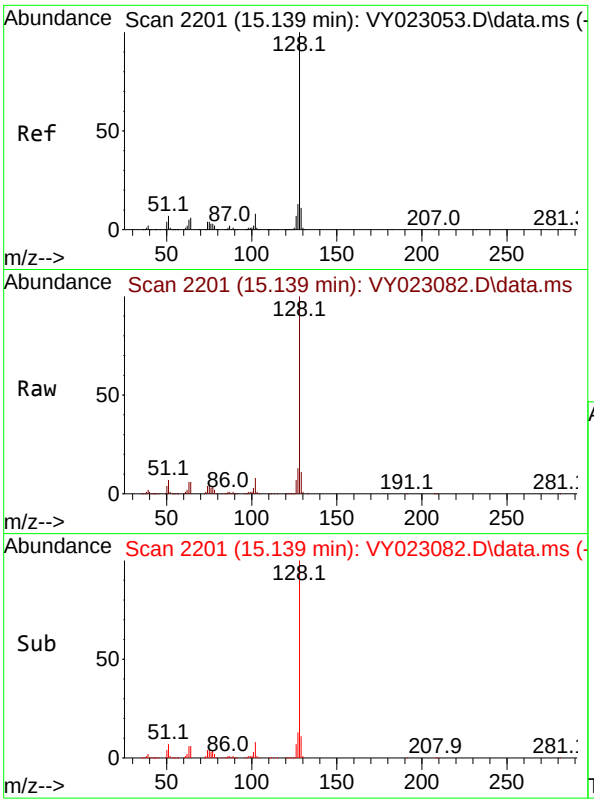


#94
Hexachlorobutadiene
Concen: 41.989 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:225 Resp: 143600

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.3	93.8
227	65.6	31.5	94.5



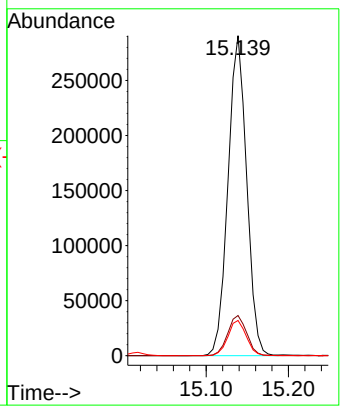


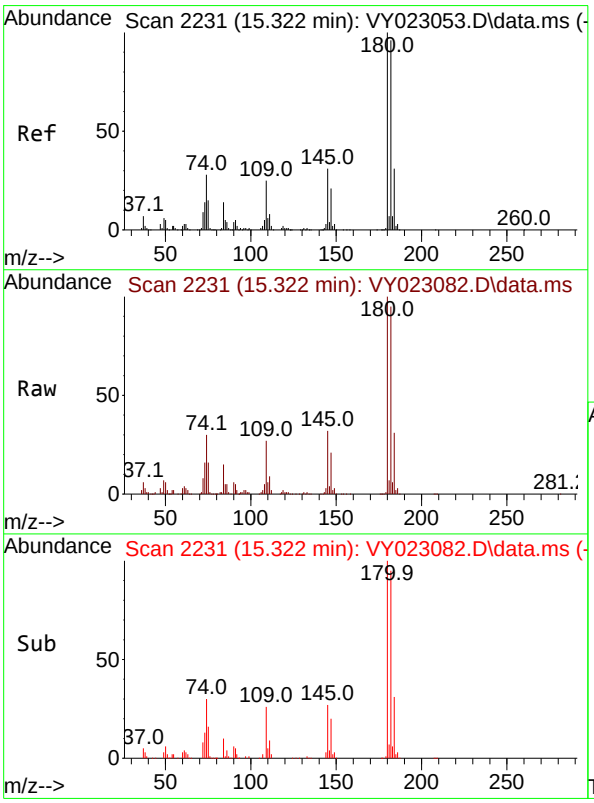
#95
Naphthalene
Concen: 46.256 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 459045

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.9	9.0	13.4

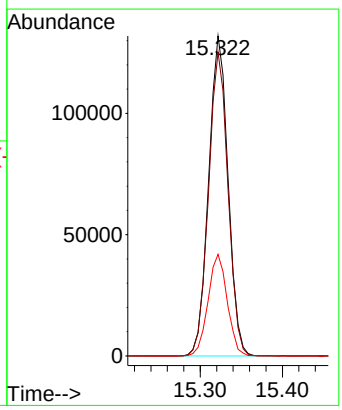




#96
1,2,3-Trichlorobenzene
Concen: 43.140 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:180 Resp: 216348

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.9	143.7
145	31.4	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	410930	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	647551	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	582049	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	290049	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	221987	56.681	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.360%			
35) Dibromofluoromethane	7.628	113	223080	57.573	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 115.140%			
50) Toluene-d8	10.103	98	875441	57.835	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 115.660%			
62) 4-Bromofluorobenzene	12.401	95	276611	56.822	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 113.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	151094	45.046	ug/l	100
3) Chloromethane	2.068	50	303228	55.814	ug/l	96
4) Vinyl Chloride	2.202	62	388943	57.916	ug/l	98
5) Bromomethane	2.592	94	288079	57.438	ug/l	99
6) Chloroethane	2.732	64	273182	61.186	ug/l	98
7) Trichlorofluoromethane	3.050	101	438280	53.672	ug/l	97
8) Diethyl Ether	3.452	74	108282	50.120	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	217833	54.071	ug/l	99
10) Methyl Iodide	4.001	142	268014	61.652	ug/l	98
11) Tert butyl alcohol	4.854	59	58207	216.906	ug/l	99
12) 1,1-Dichloroethene	3.787	96	210368	53.125	ug/l	99
13) Acrolein	3.647	56	70939	180.505	ug/l	95
14) Allyl chloride	4.379	41	309516	53.120	ug/l	98
15) Acrylonitrile	5.055	53	225862	257.151	ug/l	99
16) Acetone	3.860	43	217392	256.214	ug/l	96
17) Carbon Disulfide	4.104	76	693545	53.714	ug/l	99
18) Methyl Acetate	4.379	43	127782	50.608	ug/l	99
19) Methyl tert-butyl Ether	5.110	73	525251	51.188	ug/l	99
20) Methylene Chloride	4.610	84	249658	57.006	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	245991	55.278	ug/l	98
22) Diisopropyl ether	6.012	45	701401	55.396	ug/l	97
23) Vinyl Acetate	5.958	43	1858955	265.520	ug/l	99
24) 1,1-Dichloroethane	5.909	63	437716	56.544	ug/l	100
25) 2-Butanone	6.890	43	291161	252.314	ug/l	99
26) 2,2-Dichloropropane	6.884	77	369032	55.247	ug/l	99
27) cis-1,2-Dichloroethene	6.884	96	282758	54.962	ug/l	99
28) Bromochloromethane	7.244	49	180624	58.812	ug/l	97
29) Tetrahydrofuran	7.262	42	176218	246.358	ug/l	99
30) Chloroform	7.415	83	452700	56.703	ug/l	92
31) Cyclohexane	7.695	56	369548	50.659	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	395153	55.782	ug/l	99
36) 1,1-Dichloropropene	7.835	75	324519	56.356	ug/l	99
37) Ethyl Acetate	6.982	43	127399	52.667	ug/l	98
38) Carbon Tetrachloride	7.811	117	351380	56.181	ug/l	98
39) Methylcyclohexane	9.109	83	412645	54.417	ug/l	99
40) Benzene	8.079	78	1015204	57.200	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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	7.213	41	60193	43.117 ug/l #	84
42) 1,2-Dichloroethane	8.158	62	257953	55.883 ug/l	98
43) Isopropyl Acetate	8.195	43	247901	50.705 ug/l	99
44) Trichloroethene	8.866	130	256850	56.001 ug/l	98
45) 1,2-Dichloropropane	9.140	63	236969	58.028 ug/l	98
46) Dibromomethane	9.231	93	132779	56.649 ug/l	98
47) Bromodichloromethane	9.420	83	344511	57.122 ug/l	98
48) Methyl methacrylate	9.219	41	123024	52.585 ug/l	99
49) 1,4-Dioxane	9.225	88	28396	1033.218 ug/l	95
51) 4-Methyl-2-Pentanone	9.993	43	657357	260.657 ug/l	99
52) Toluene	10.170	92	647492	57.441 ug/l	98
53) t-1,3-Dichloropropene	10.390	75	301282	55.165 ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	360945	55.890 ug/l	97
55) 1,1,2-Trichloroethane	10.566	97	173079	55.184 ug/l	96
56) Ethyl methacrylate	10.438	69	213481	53.193 ug/l	97
57) 1,3-Dichloropropane	10.713	76	292765	55.040 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	530251	280.099 ug/l	100
59) 2-Hexanone	10.755	43	442922	257.924 ug/l	98
60) Dibromochloromethane	10.908	129	231534	55.947 ug/l	100
61) 1,2-Dibromoethane	11.012	107	159967	54.265 ug/l	99
64) Tetrachloroethene	10.646	164	288037	55.420 ug/l	99
65) Chlorobenzene	11.438	112	693789	55.261 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.511	131	237008	55.623 ug/l	99
67) Ethyl Benzene	11.518	91	1213079	56.146 ug/l	99
68) m/p-Xylenes	11.627	106	959256	113.678 ug/l	100
69) o-Xylene	11.950	106	445491	56.368 ug/l	99
70) Styrene	11.969	104	755359	58.442 ug/l	99
71) Bromoform	12.127	173	128615	51.645 ug/l #	98
73) Isopropylbenzene	12.249	105	1153144	56.330 ug/l	100
74) N-amyl acetate	12.066	43	224404	51.690 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	180470	51.630 ug/l	99
76) 1,2,3-Trichloropropane	12.554	75	244310	87.276 ug/l #	100
77) Bromobenzene	12.530	156	264791	54.218 ug/l	99
78) n-propylbenzene	12.590	91	1411858	57.928 ug/l	100
79) 2-Chlorotoluene	12.676	91	778755	55.767 ug/l	100
80) 1,3,5-Trimethylbenzene	12.731	105	950021	57.421 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.298	75	56963	49.259 ug/l	96
82) 4-Chlorotoluene	12.773	91	813961	56.188 ug/l	100
83) tert-Butylbenzene	12.993	119	830094	55.552 ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	956285	58.063 ug/l	100
85) sec-Butylbenzene	13.170	105	1262155	57.500 ug/l	99
86) p-Isopropyltoluene	13.285	119	1062415	58.310 ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	540543	56.125 ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	526660	55.125 ug/l	100
89) n-Butylbenzene	13.615	91	968977	57.904 ug/l	100
90) Hexachloroethane	13.877	117	210671	56.482 ug/l	98
91) 1,2-Dichlorobenzene	13.651	146	469762	55.616 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	28212	51.839 ug/l	92
93) 1,2,4-Trichlorobenzene	14.919	180	258580	51.769 ug/l	99
94) Hexachlorobutadiene	15.017	225	158788	54.099 ug/l	99
95) Naphthalene	15.139	128	433775	50.929 ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	220135	51.145 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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)

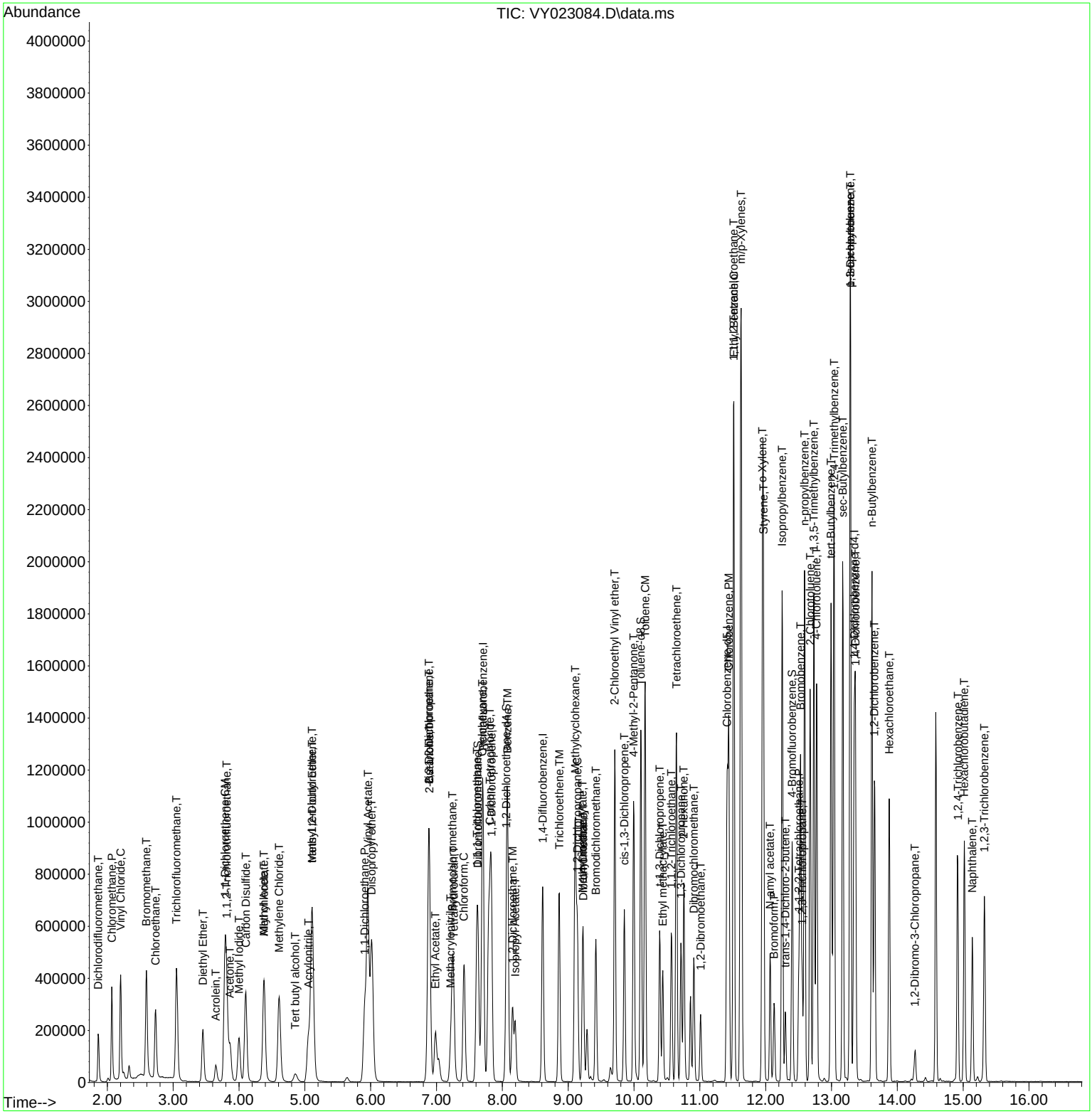
(#) = qualifier out of range (m) = manual integration (+) = signals summed

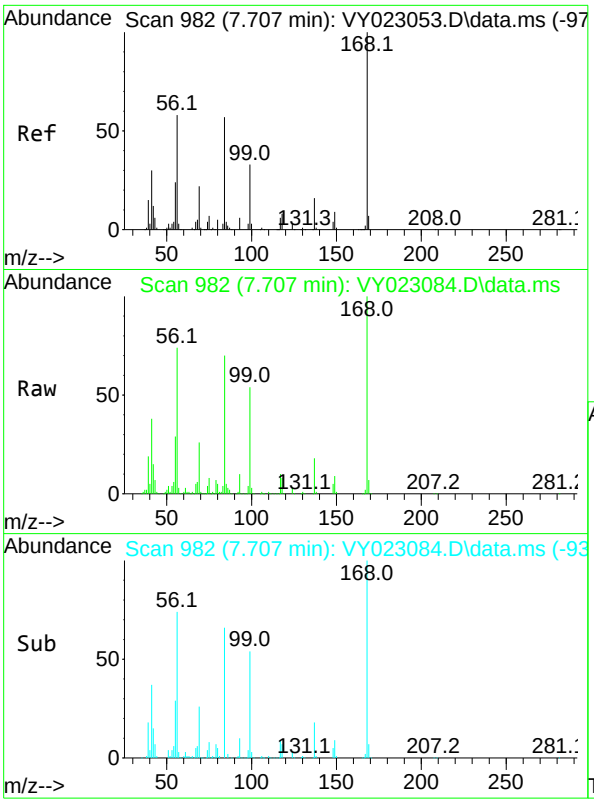
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
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 14 14:46:40 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



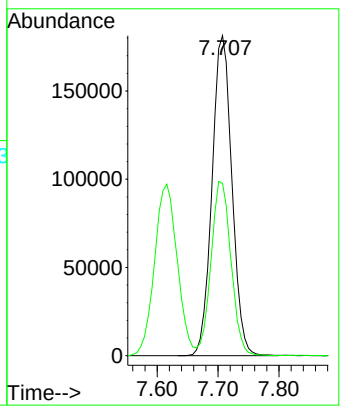


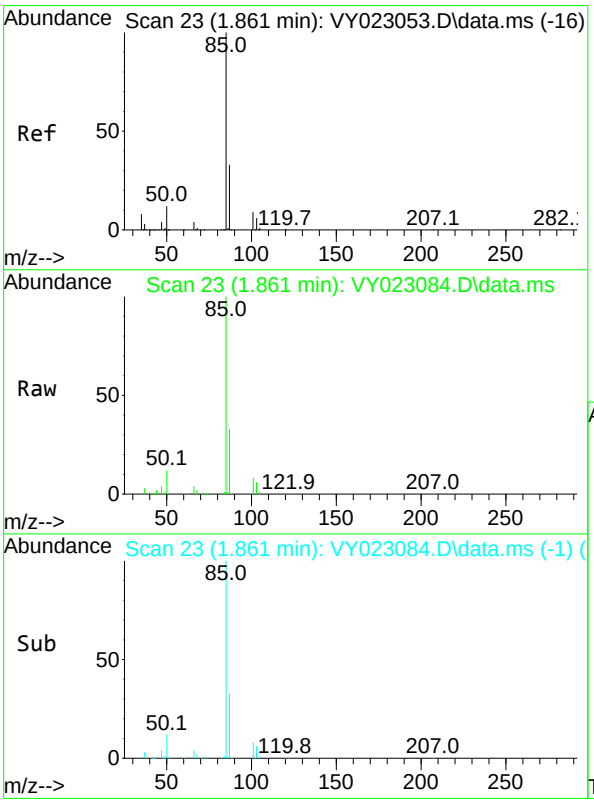
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 410930

Ion	Ratio	Lower	Upper
168	100		
99	53.7	42.8	64.2

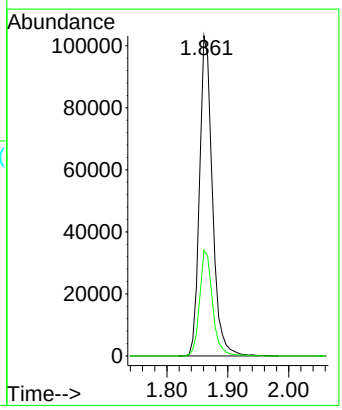


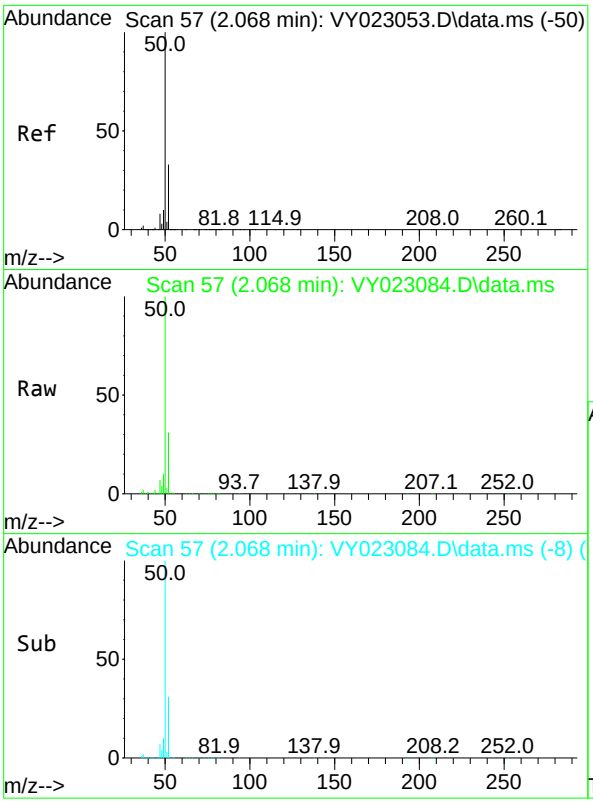


#2
Dichlorodifluoromethane
Concen: 45.046 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 85 Resp: 151094

Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.6	49.8



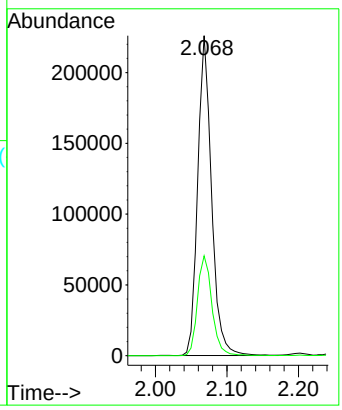


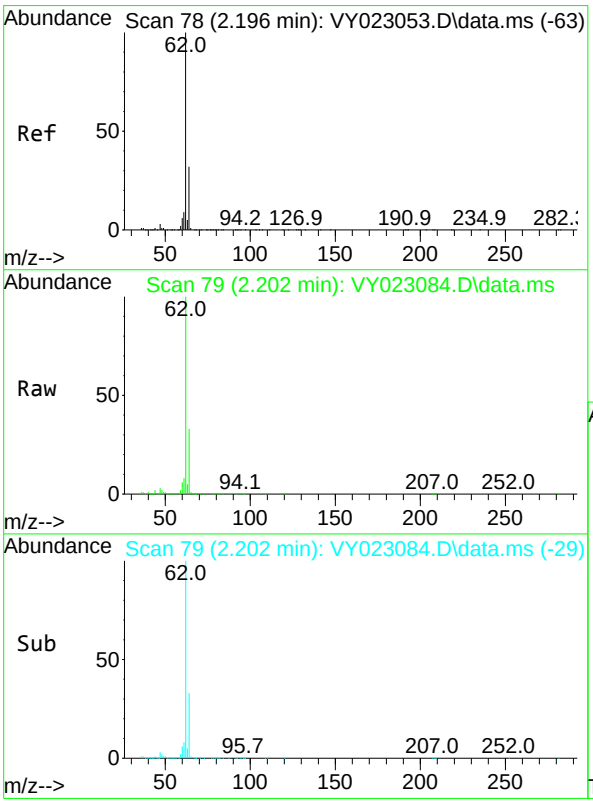
#3
Chloromethane
Concen: 55.814 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 303228

Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.7	40.1

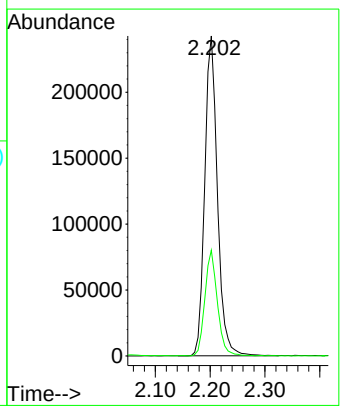


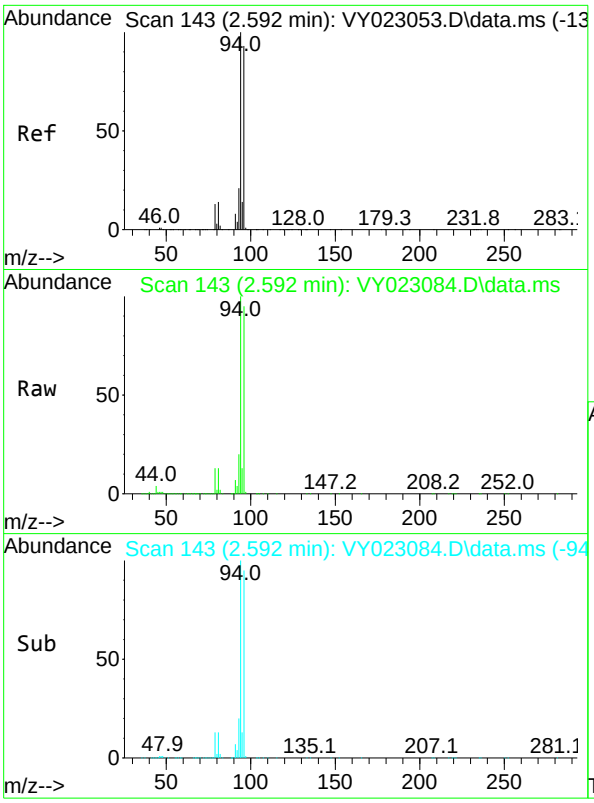


#4
Vinyl Chloride
Concen: 57.916 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 388943

Ion	Ratio	Lower	Upper
62	100		
64	33.0	25.4	38.0



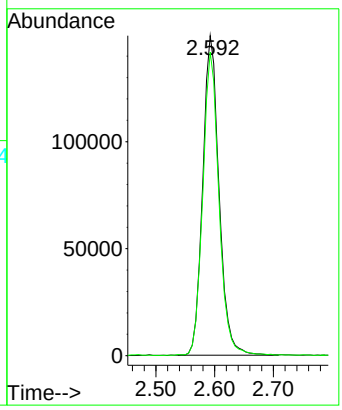


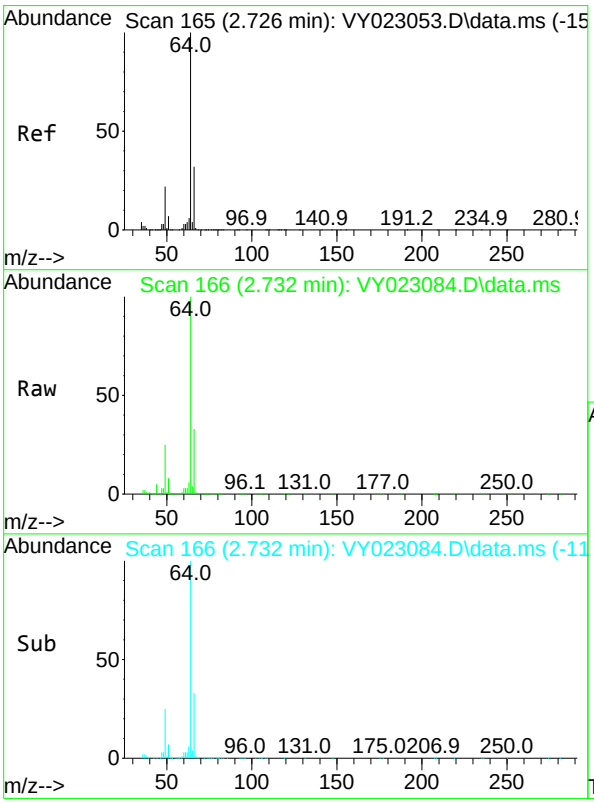
#5
Bromomethane
Concen: 57.438 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 288079

Ion	Ratio	Lower	Upper
94	100		
96	94.7	74.6	112.0

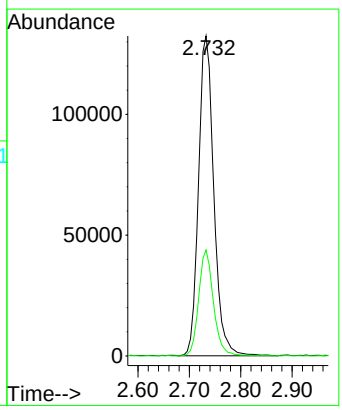


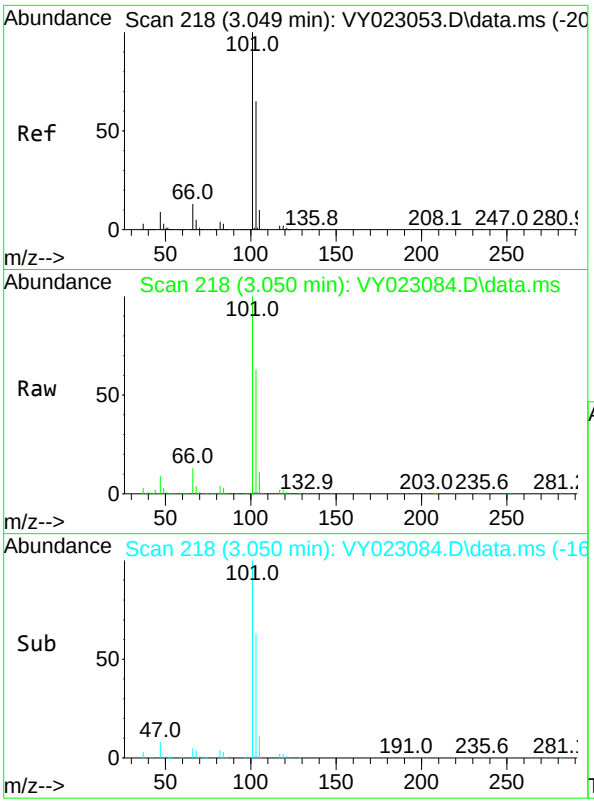


#6
Chloroethane
Concen: 61.186 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 64 Resp: 273182

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.8	38.6



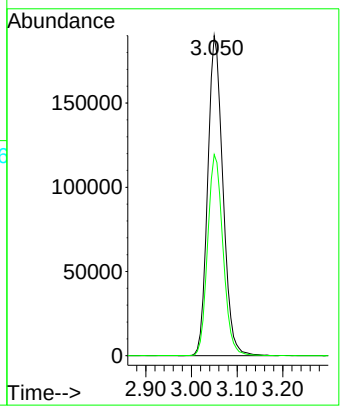


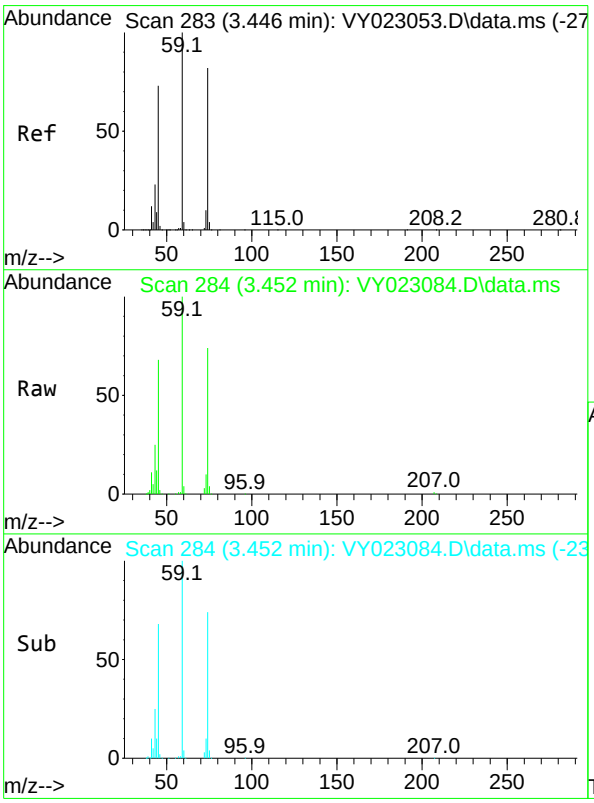
#7
Trichlorofluoromethane
Concen: 53.672 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 438280

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.9	77.9

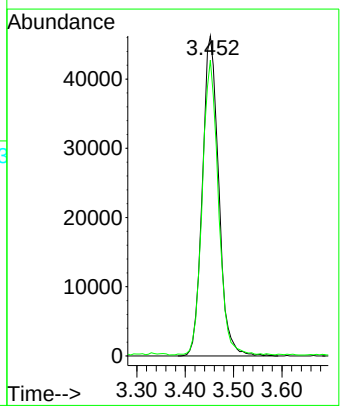


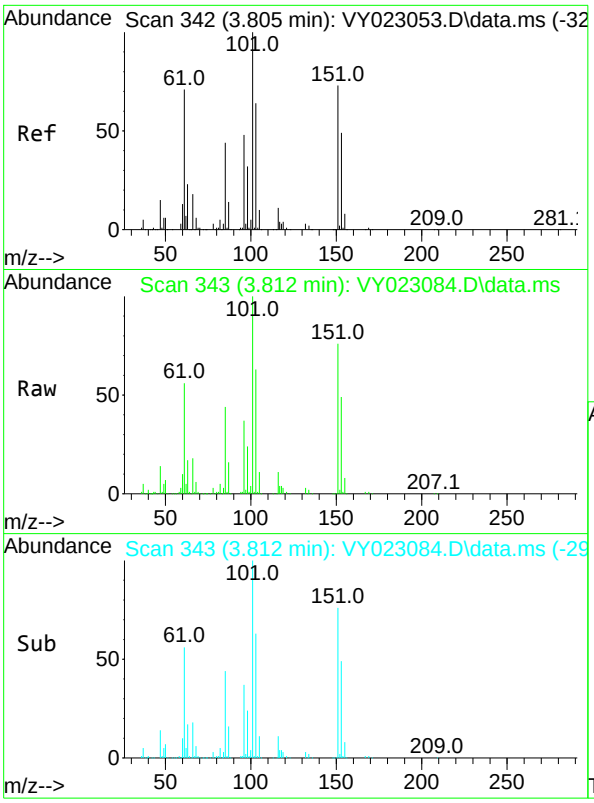


#8
Diethyl Ether
Concen: 50.120 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 74 Resp: 108282

Ion	Ratio	Lower	Upper
74	100		
45	91.1	44.4	133.2



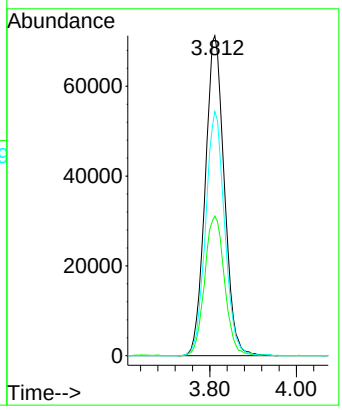


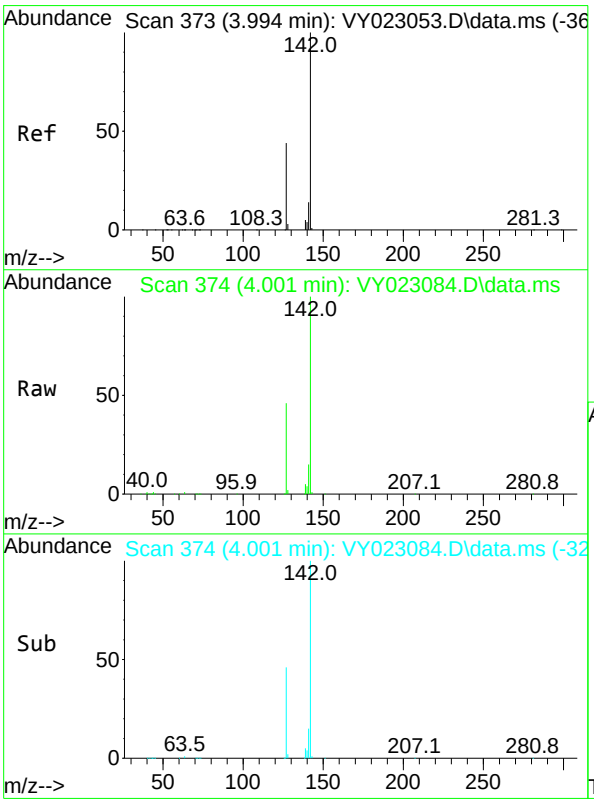
#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.071 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 217833

Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.3	54.5
151	76.2	61.5	92.3

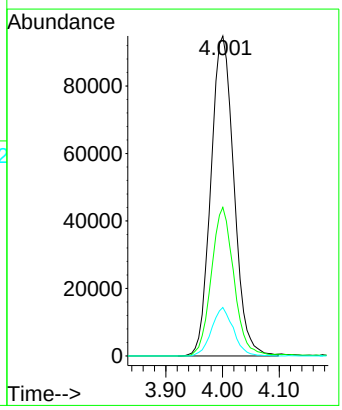


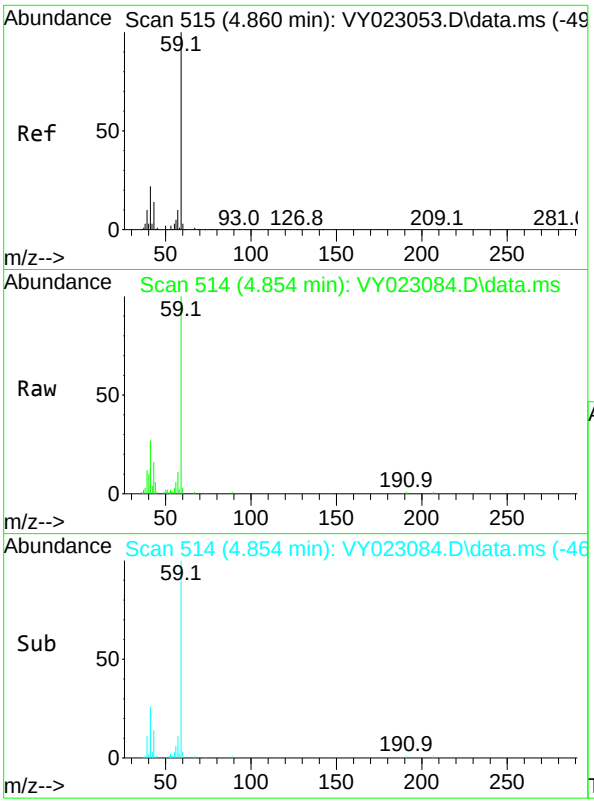


#10
Methyl Iodide
Concen: 61.652 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:142 Resp: 268014

Ion	Ratio	Lower	Upper
142	100		
127	45.4	34.9	52.3
141	14.4	11.3	16.9



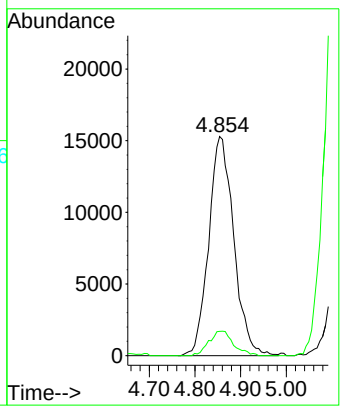


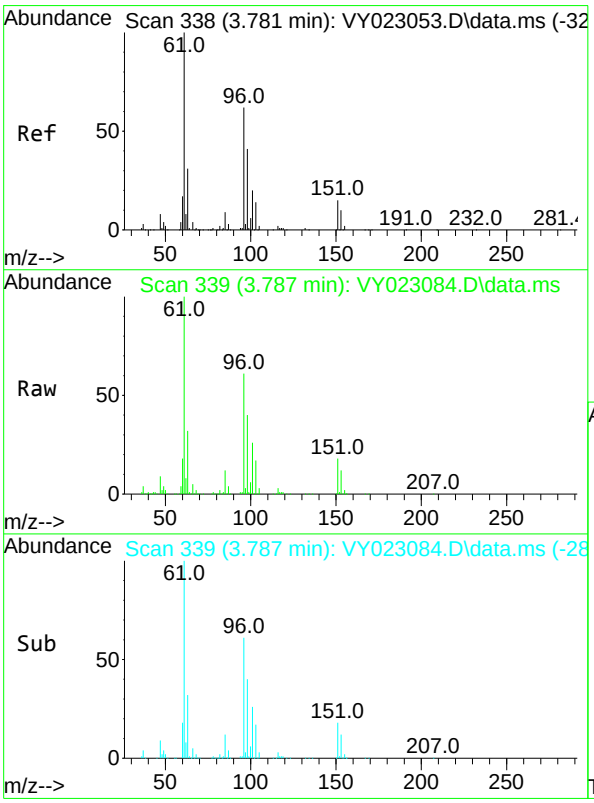
#11
Tert butyl alcohol
Concen: 216.906 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 58207

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0

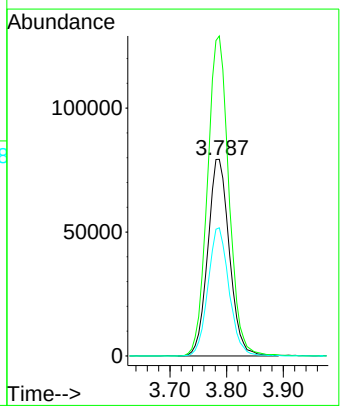


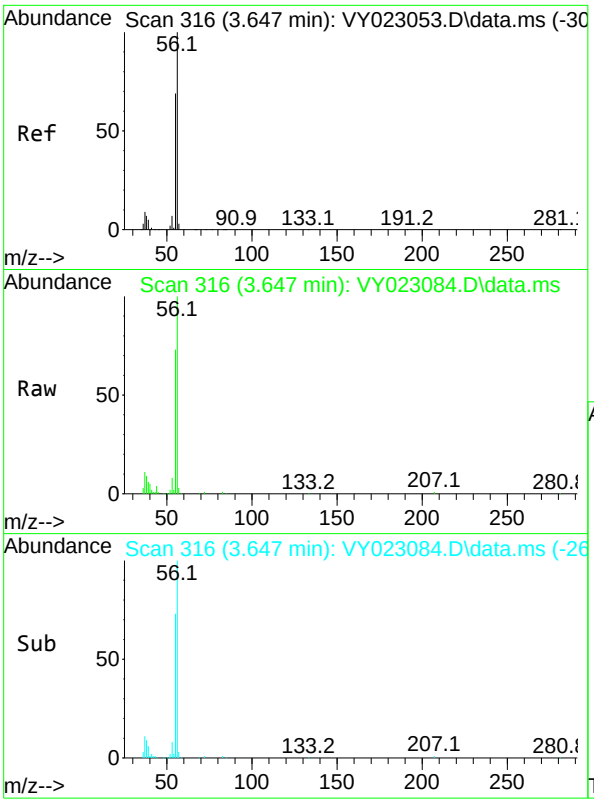


#12
1,1-Dichloroethene
Concen: 53.125 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 210368

Ion	Ratio	Lower	Upper
96	100		
61	162.8	129.4	194.2
98	65.2	52.8	79.2



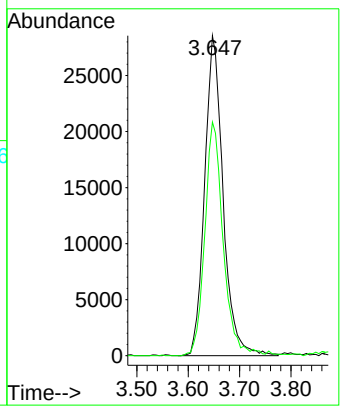


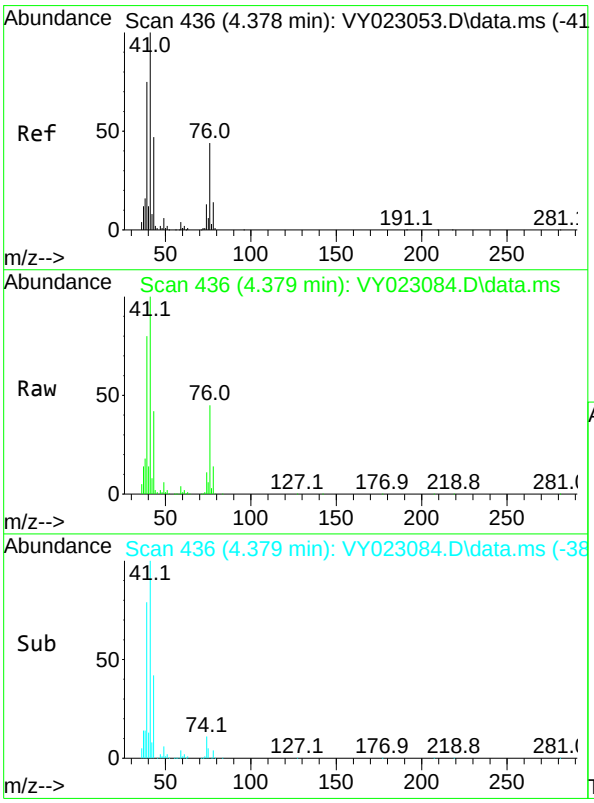
#13
Acrolein
Concen: 180.505 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 70939

Ion	Ratio	Lower	Upper
56	100		
55	72.8	55.2	82.8

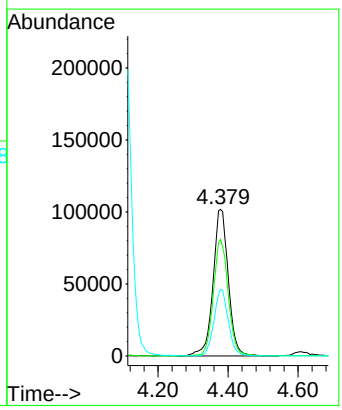


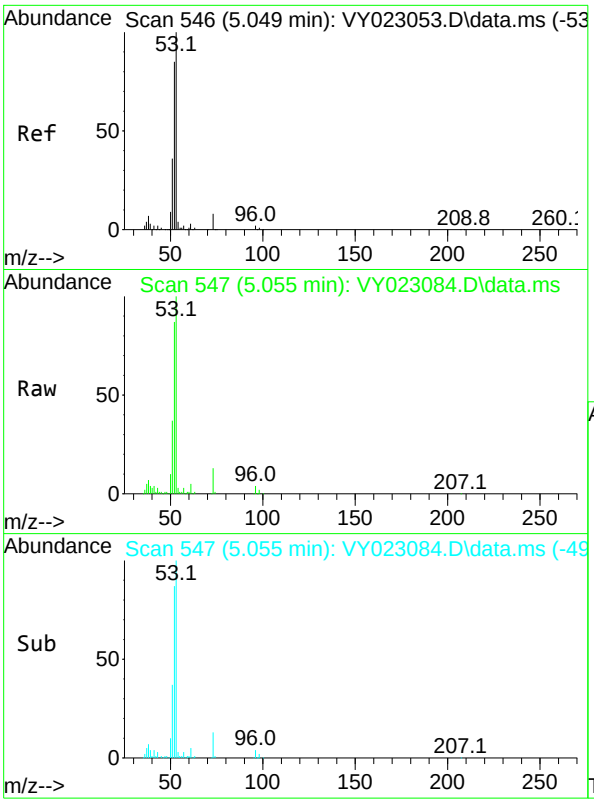


#14
Allyl chloride
Concen: 53.120 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 309516

Ion	Ratio	Lower	Upper
41	100		
39	77.3	59.8	89.6
76	42.3	33.7	50.5



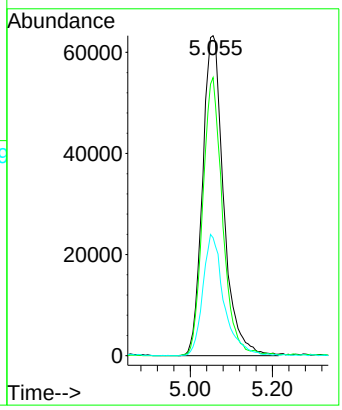


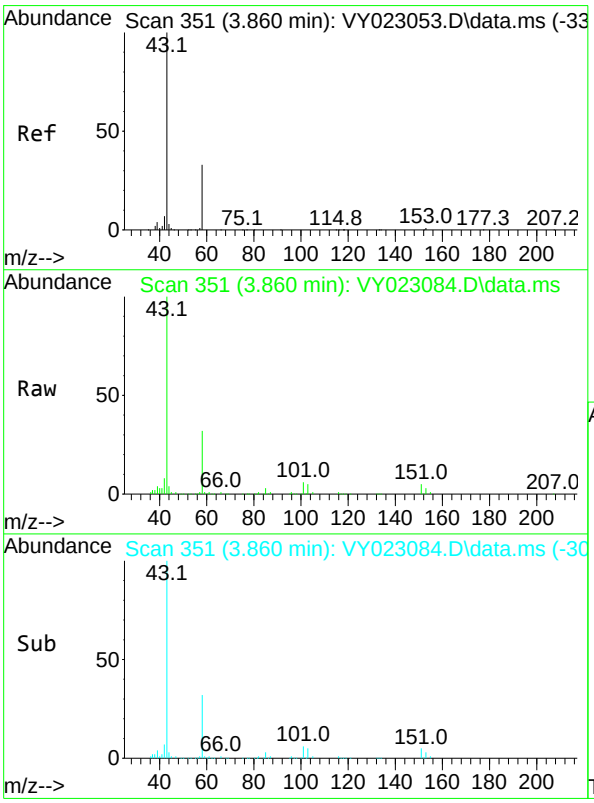
#15
Acrylonitrile
Concen: 257.151 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 225862

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.3	97.9
51	37.6	29.5	44.3

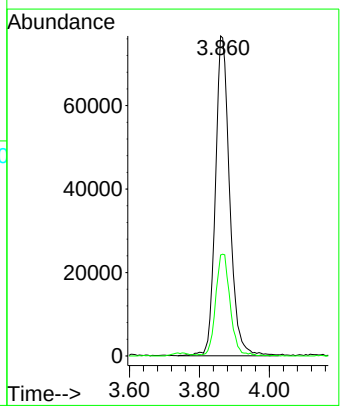


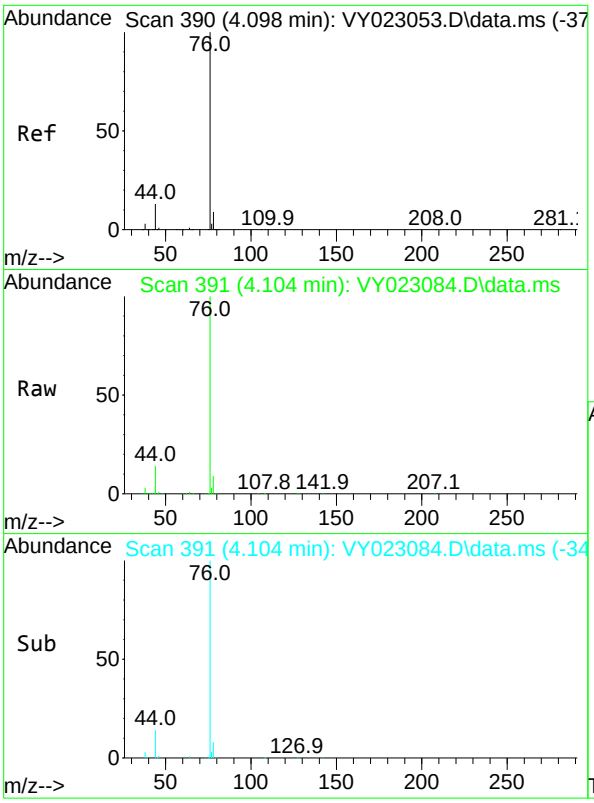


#16
Acetone
Concen: 256.214 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 217392

Ion	Ratio	Lower	Upper
43	100		
58	31.5	27.1	40.7



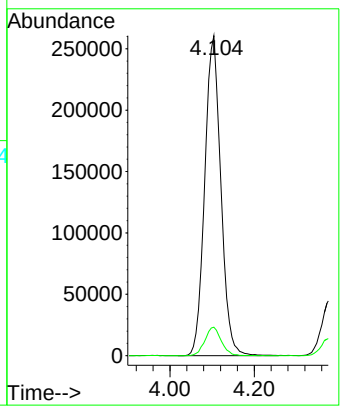


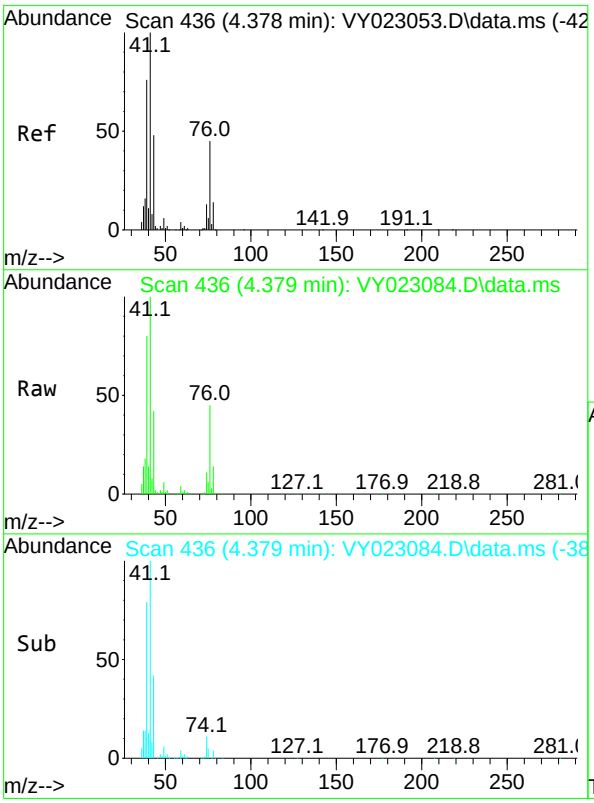
#17
Carbon Disulfide
Concen: 53.714 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 693545

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

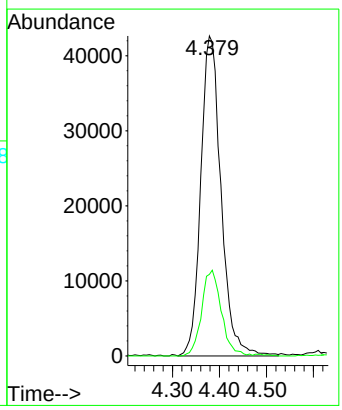


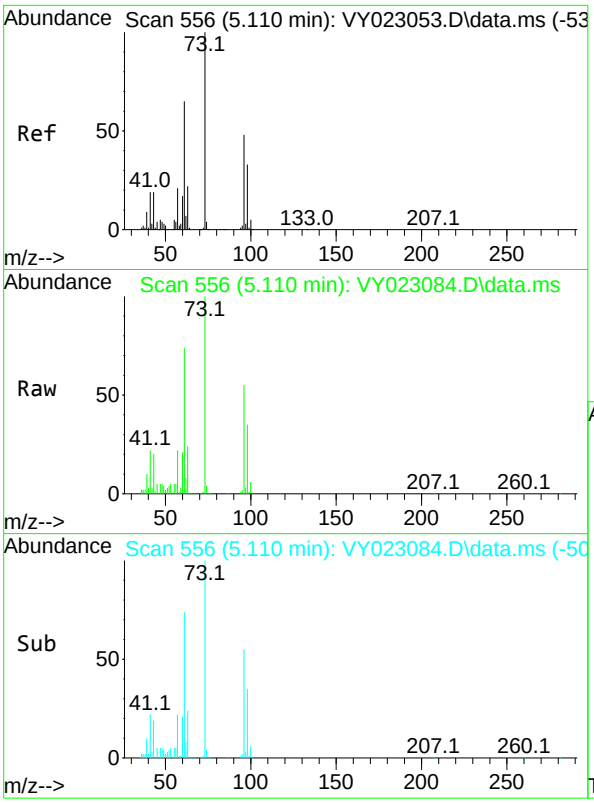


#18
Methyl Acetate
Concen: 50.608 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 127782

Ion	Ratio	Lower	Upper
43	100		
74	26.0	21.2	31.8



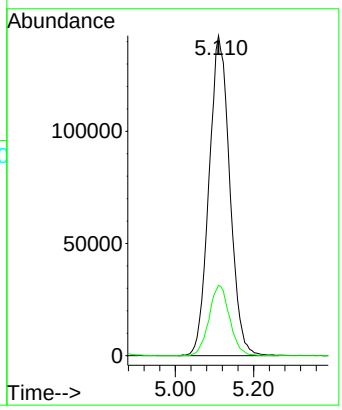


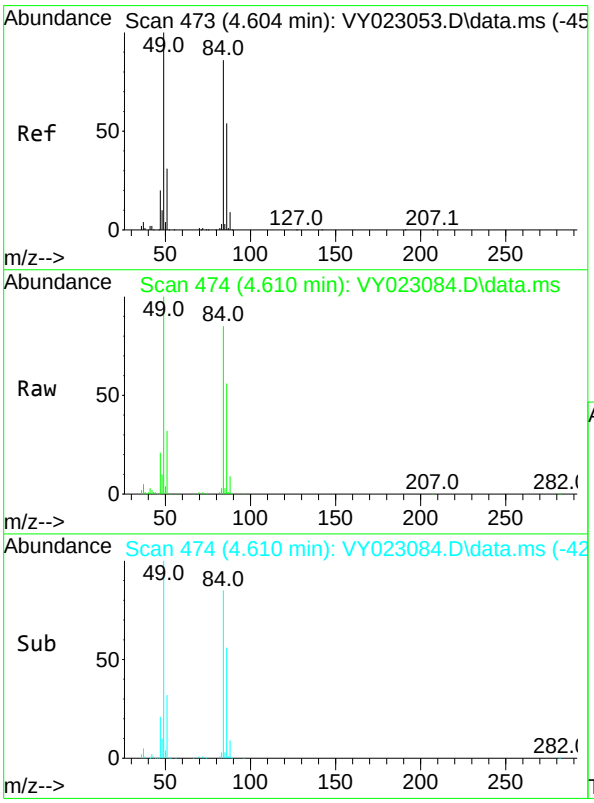
#19
Methyl tert-butyl Ether
Concen: 51.188 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 525251

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.1	25.7

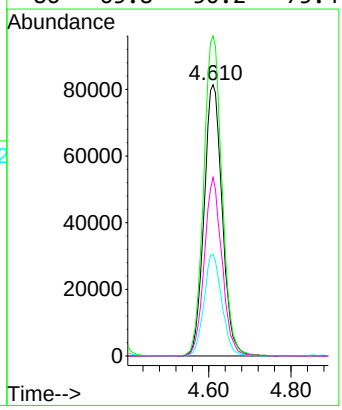


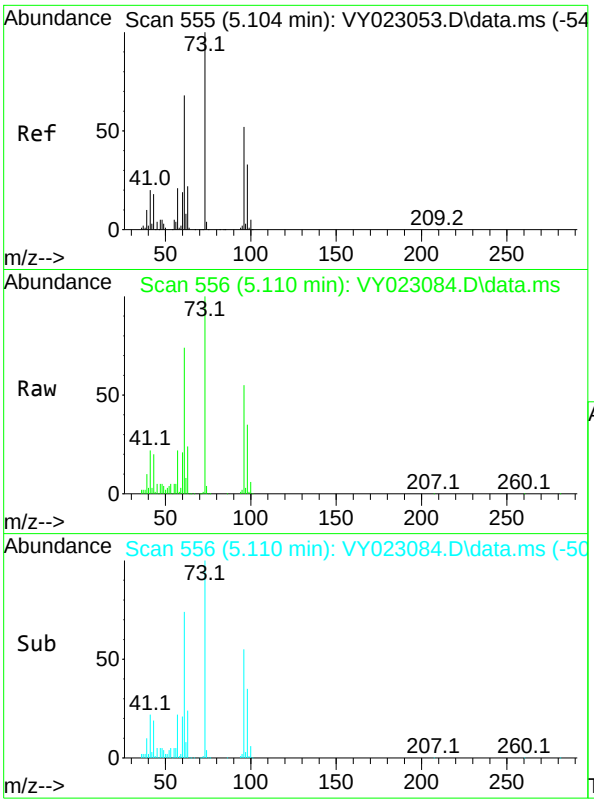


#20
Methylene Chloride
Concen: 57.006 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 84 Resp: 249658

Ion	Ratio	Lower	Upper
84	100		
49	117.9	93.0	139.6
51	37.5	29.0	43.4
86	65.8	50.2	75.4



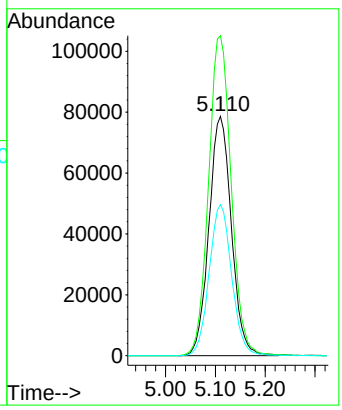


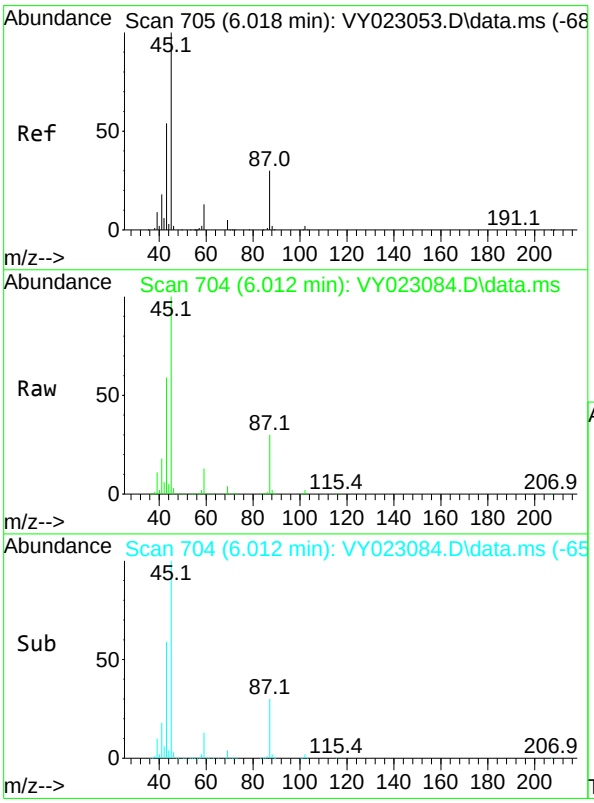
#21
trans-1,2-Dichloroethene
Concen: 55.278 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 245991

Ion	Ratio	Lower	Upper
96	100		
61	133.6	104.8	157.2
98	63.1	50.1	75.1

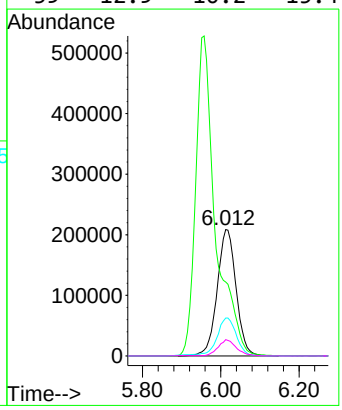


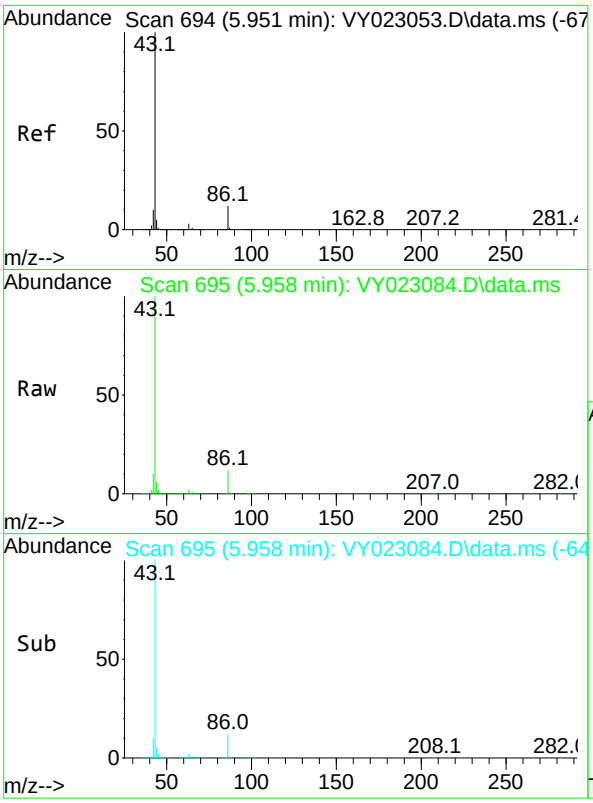


#22
Diisopropyl ether
Concen: 55.396 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 45 Resp: 701401

Ion	Ratio	Lower	Upper
45	100		
43	58.3	43.4	65.0
87	29.9	24.4	36.6
59	12.9	10.2	15.4



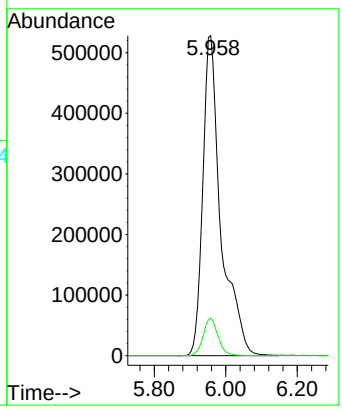


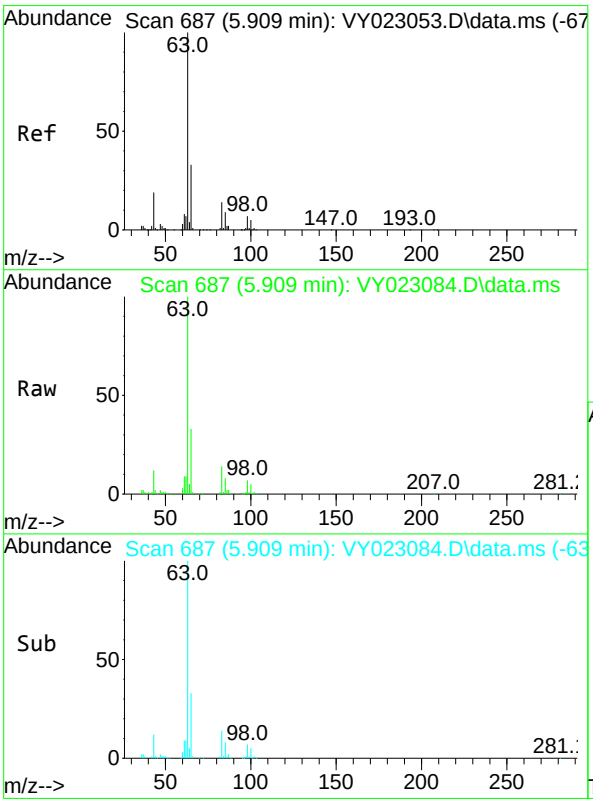
#23
Vinyl Acetate
Concen: 265.520 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1858955

Ion	Ratio	Lower	Upper
43	100		
86	11.7	9.6	14.4

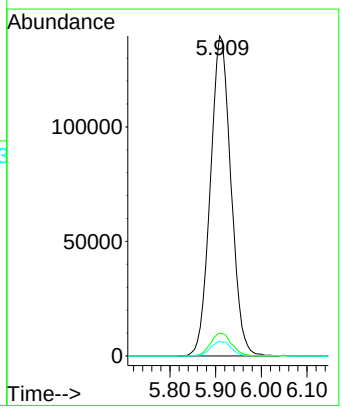


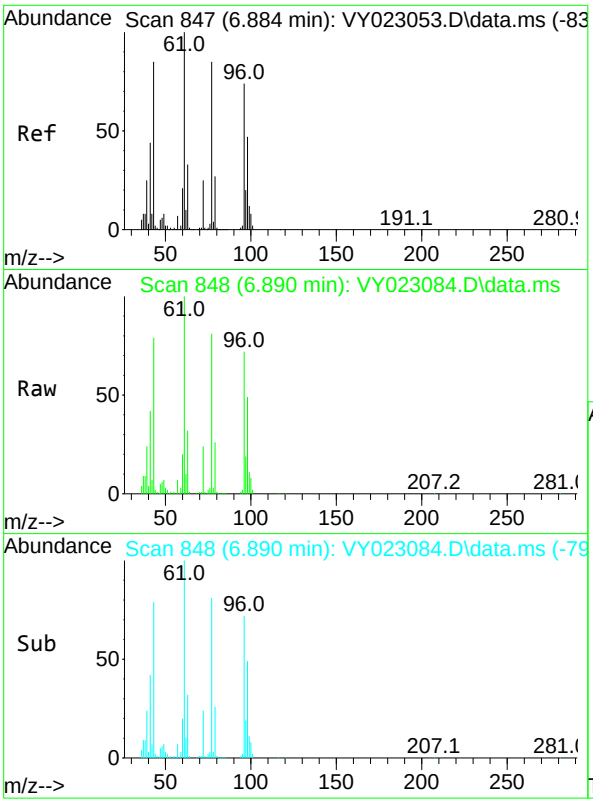


#24
1,1-Dichloroethane
Concen: 56.544 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 437716

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.6
100	4.6	2.4	7.1



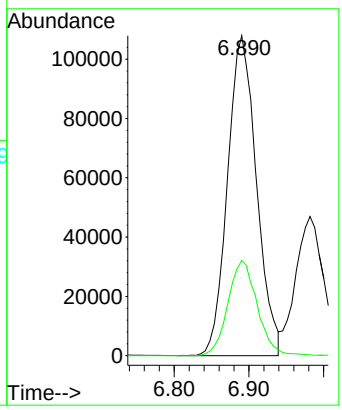


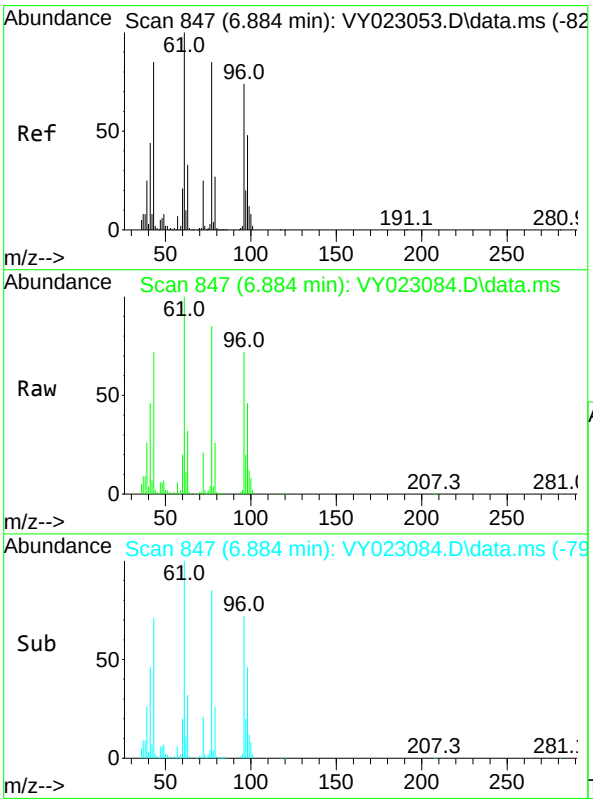
#25
2-Butanone
Concen: 252.314 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 291161

Ion	Ratio	Lower	Upper
43	100		
72	29.8	23.5	35.3

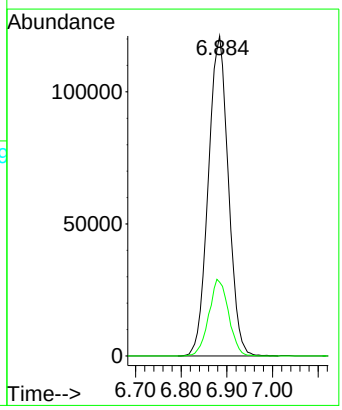


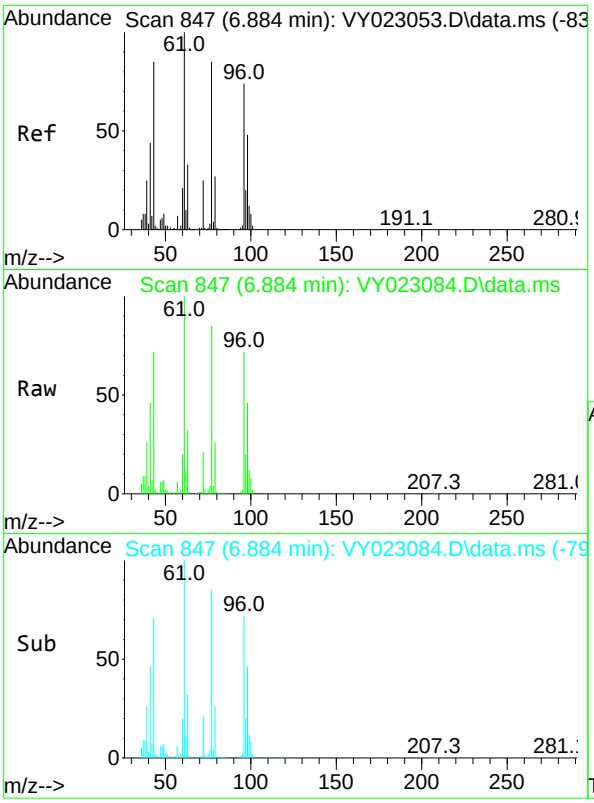


#26
2,2-Dichloropropane
Concen: 55.247 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 77 Resp: 369032

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.8



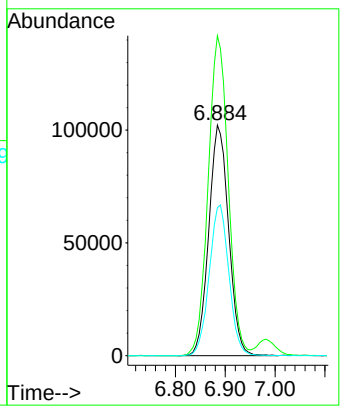


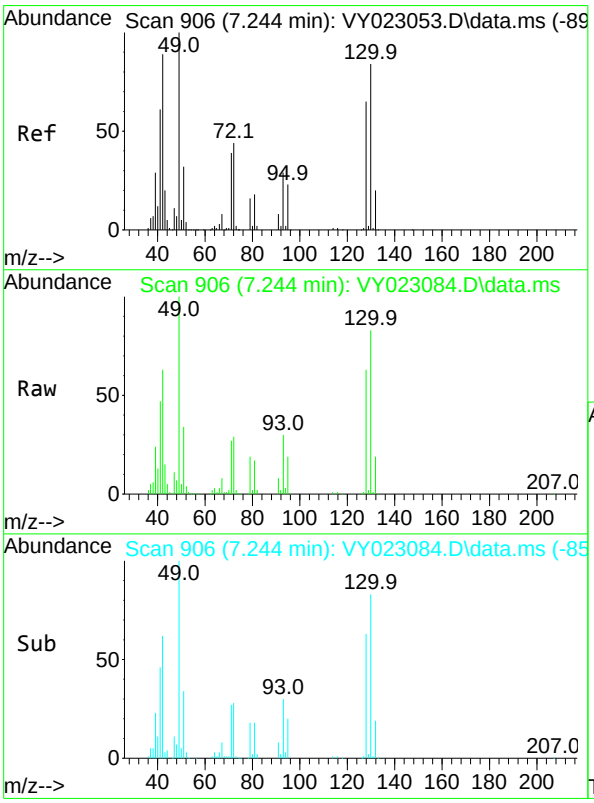
#27
cis-1,2-Dichloroethene
Concen: 54.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 282758

Ion	Ratio	Lower	Upper
96	100		
61	140.4	0.0	278.6
98	64.9	0.0	130.4

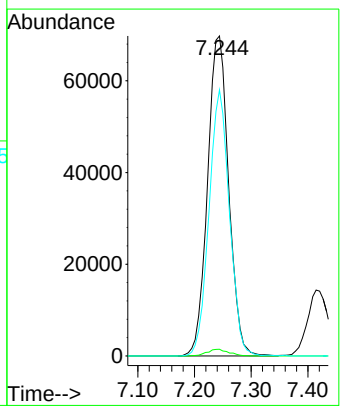


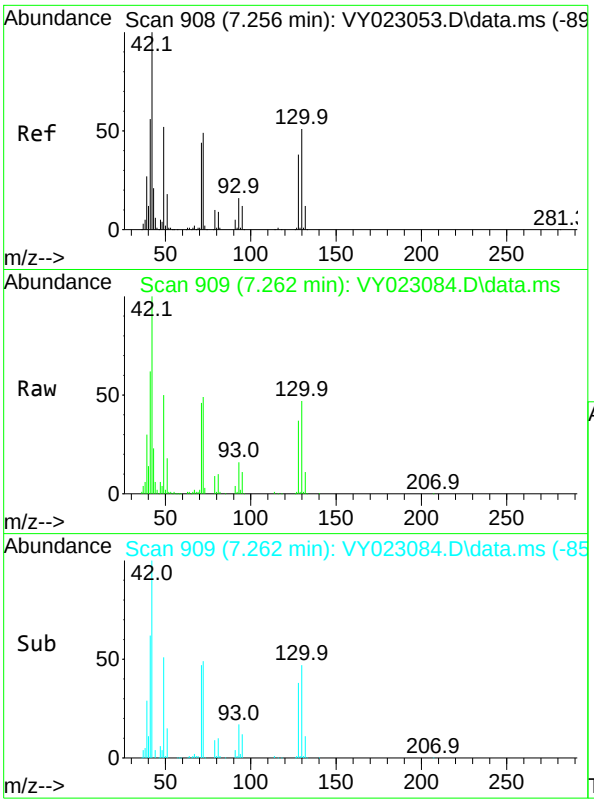


#28
Bromochloromethane
Concen: 58.812 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 49 Resp: 180624

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	80.4	66.4	99.6



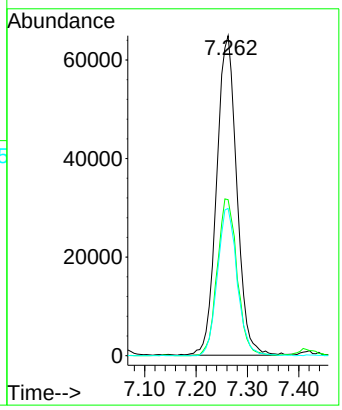


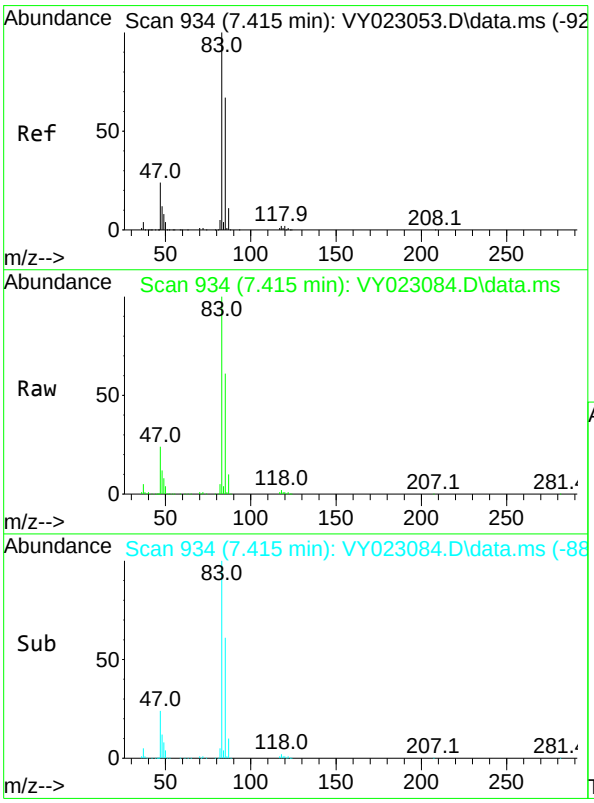
#29
Tetrahydrofuran
Concen: 246.358 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 176218

Ion	Ratio	Lower	Upper
42	100		
72	48.6	39.4	59.2
71	45.4	36.5	54.7

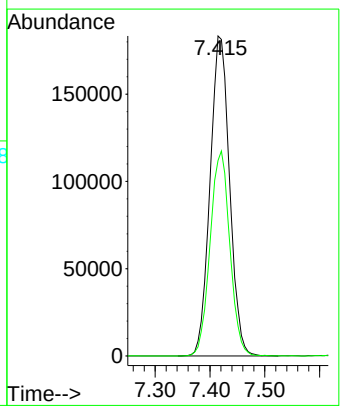


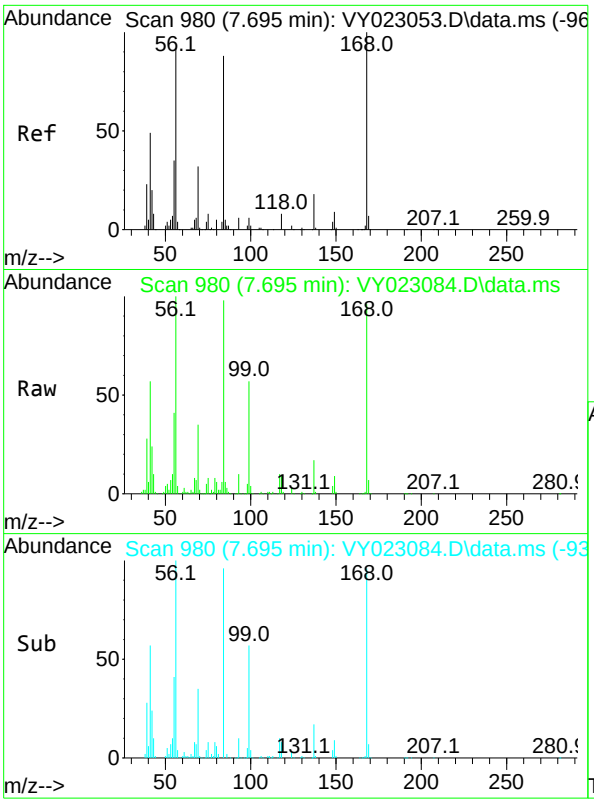


#30
Chloroform
Concen: 56.703 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 452700

Ion	Ratio	Lower	Upper
83	100		
85	61.1	53.8	80.8



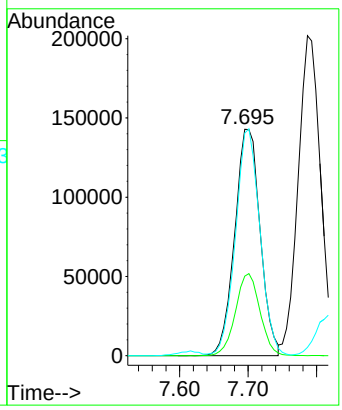


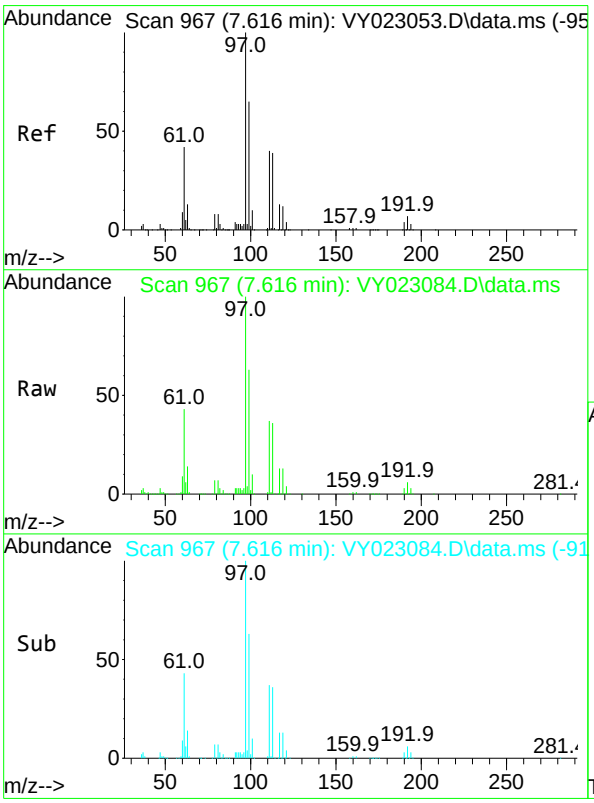
#31
Cyclohexane
Concen: 50.659 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 369548

Ion	Ratio	Lower	Upper
56	100		
69	35.1	28.2	42.2
84	97.3	76.6	114.8

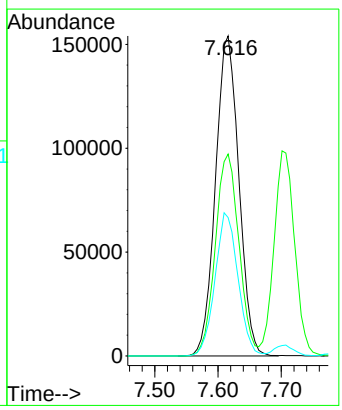


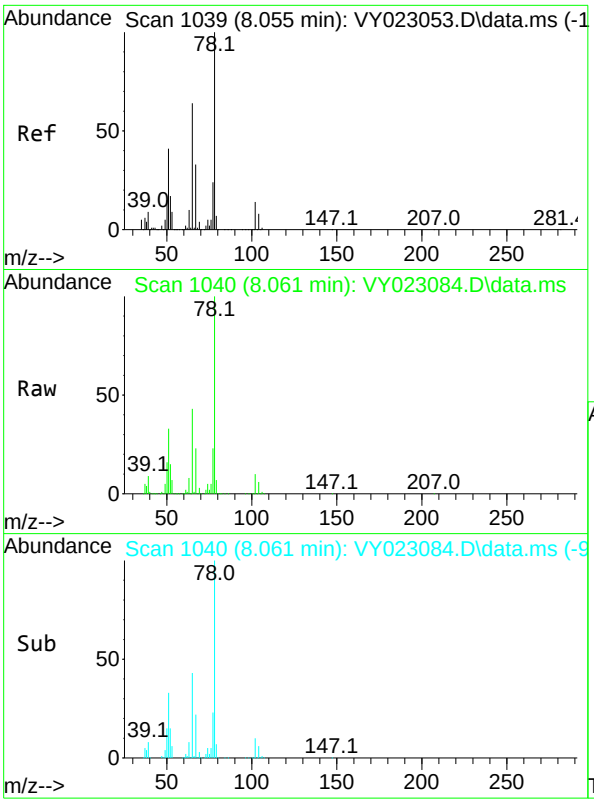


#32
1,1,1-Trichloroethane
Concen: 55.782 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 97 Resp: 395153

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	44.1	34.2	51.2



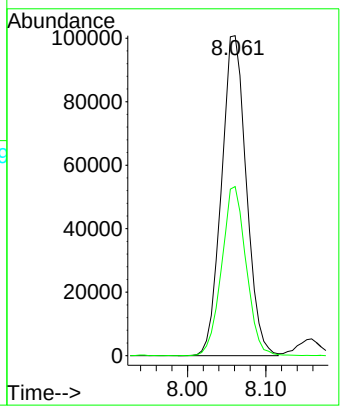


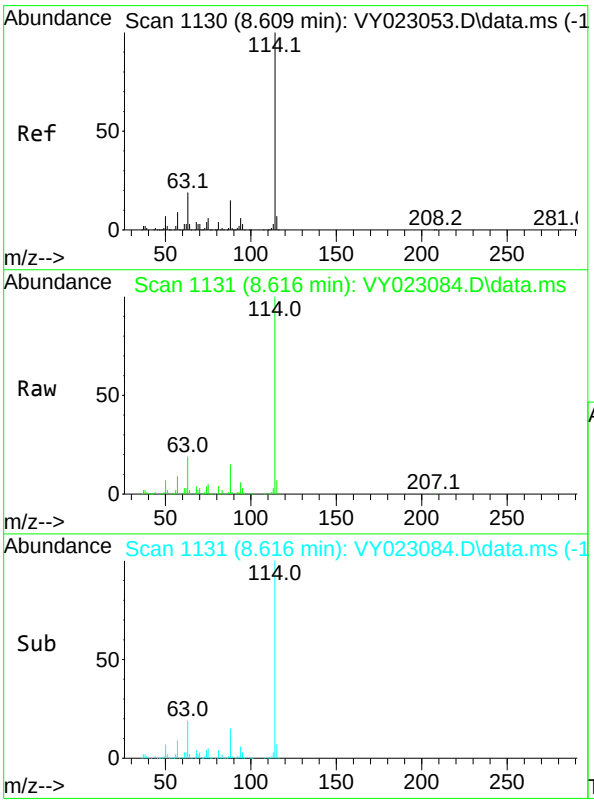
#33
1,2-Dichloroethane-d4
Concen: 56.681 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 221987

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.8

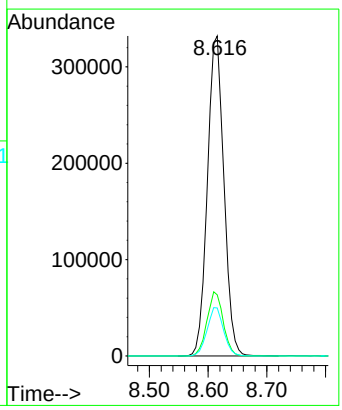


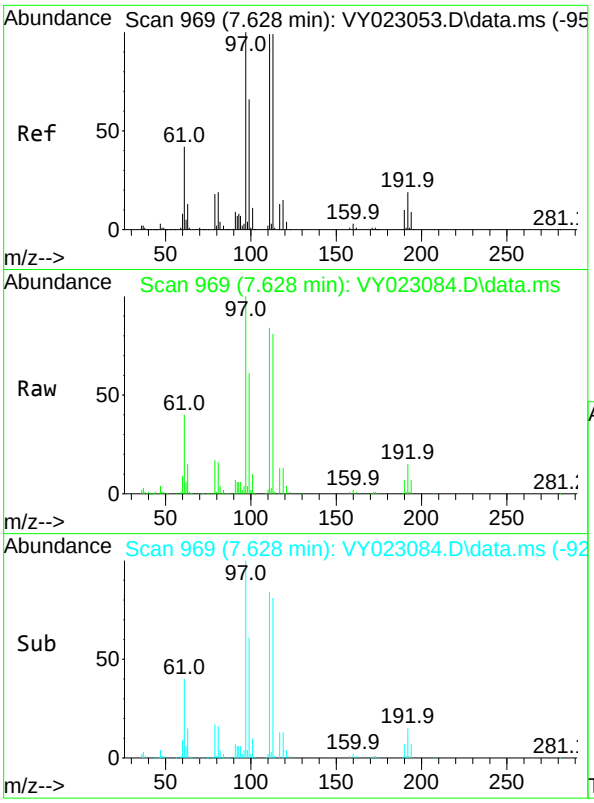


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:114 Resp: 647551

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.4
88	15.0	0.0	30.0



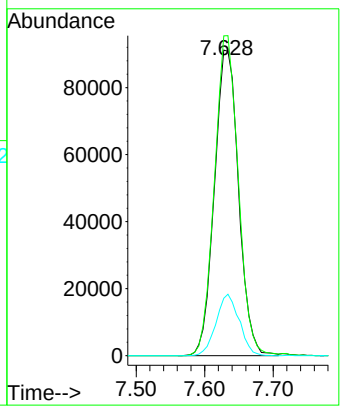


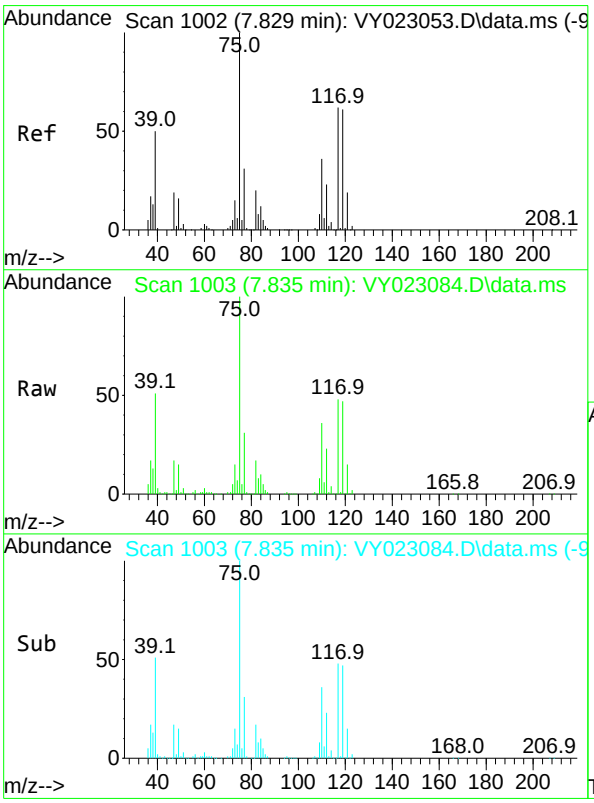
#35
Dibromofluoromethane
Concen: 57.573 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 223080

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.1	121.7
192	19.3	16.2	24.4

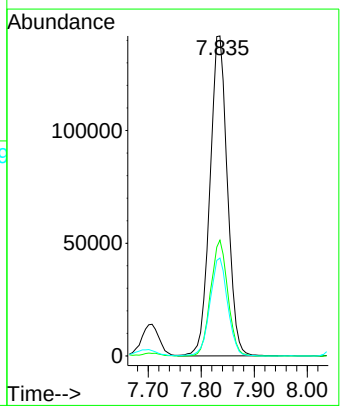


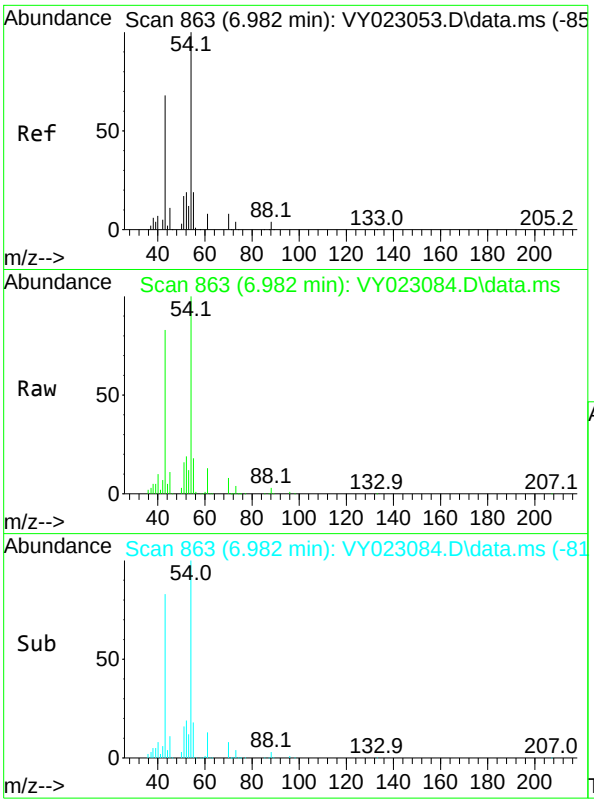


#36
1,1-Dichloropropene
Concen: 56.356 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 324519

Ion	Ratio	Lower	Upper
75	100		
110	35.6	18.1	54.4
77	30.9	24.6	37.0



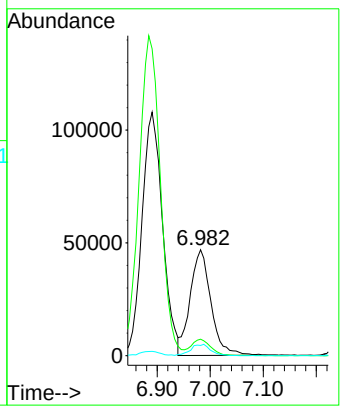


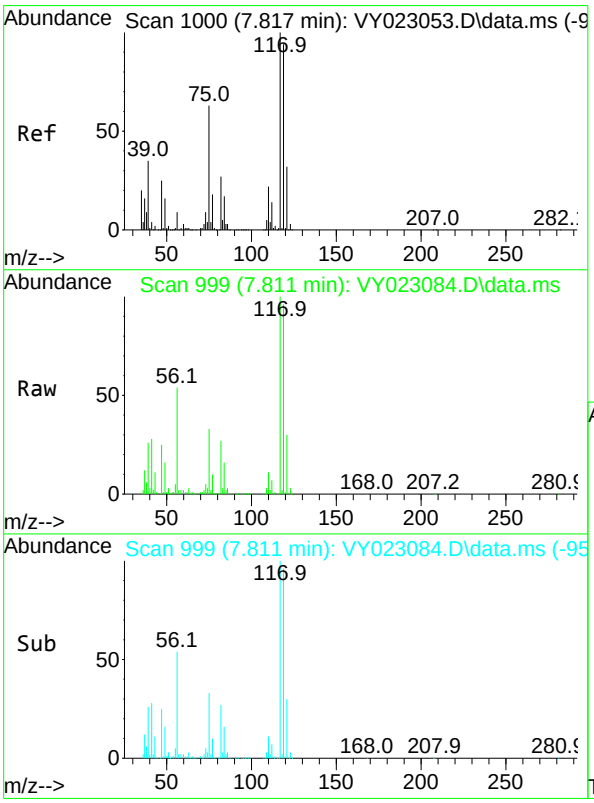
#37
Ethyl Acetate
Concen: 52.667 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 127399

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.9	17.9
70	10.3	8.8	13.2

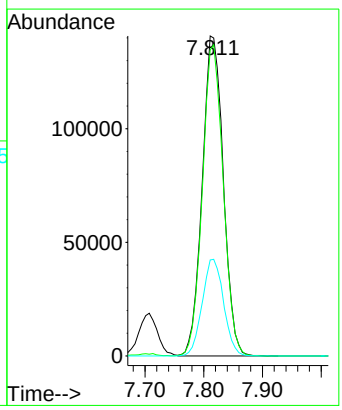


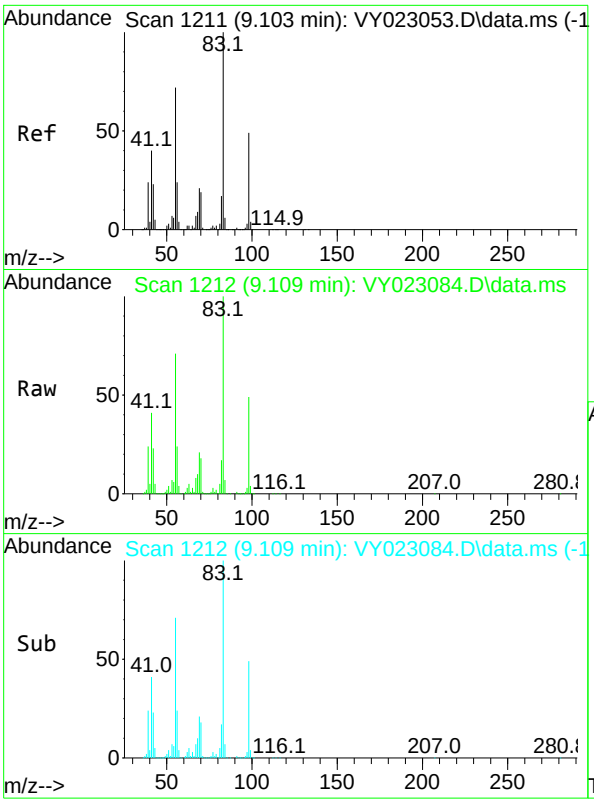


#38
Carbon Tetrachloride
Concen: 56.181 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 351380

Ion	Ratio	Lower	Upper
117	100		
119	95.6	75.6	113.4
121	30.0	25.8	38.8



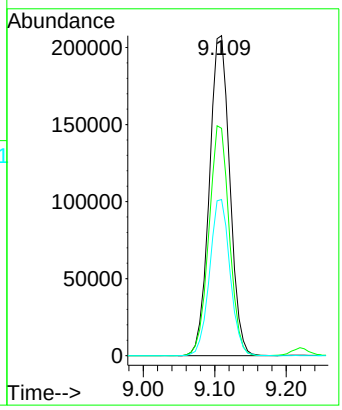


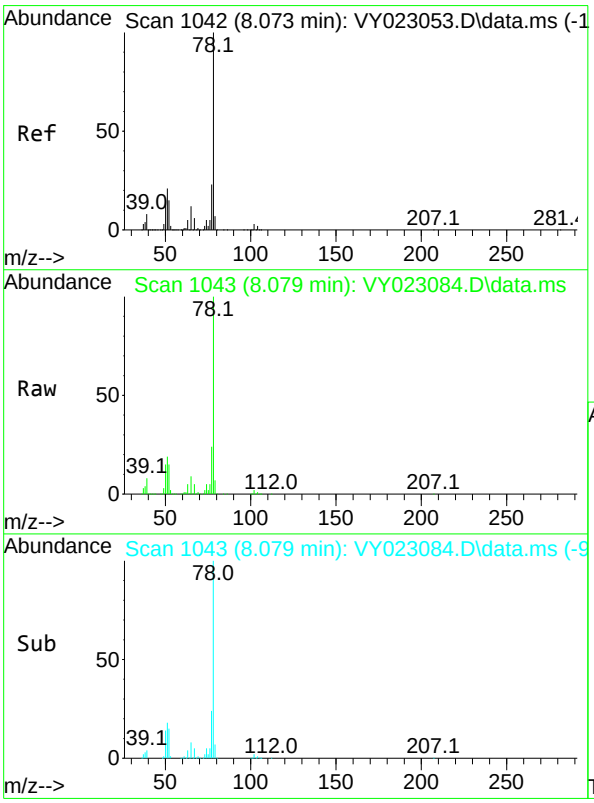
#39
Methylcyclohexane
Concen: 54.417 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 412645

Ion	Ratio	Lower	Upper
83	100		
55	71.0	57.6	86.4
98	48.8	39.2	58.8

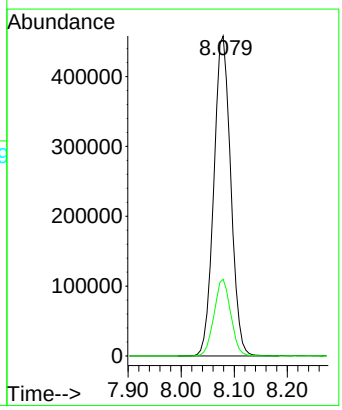


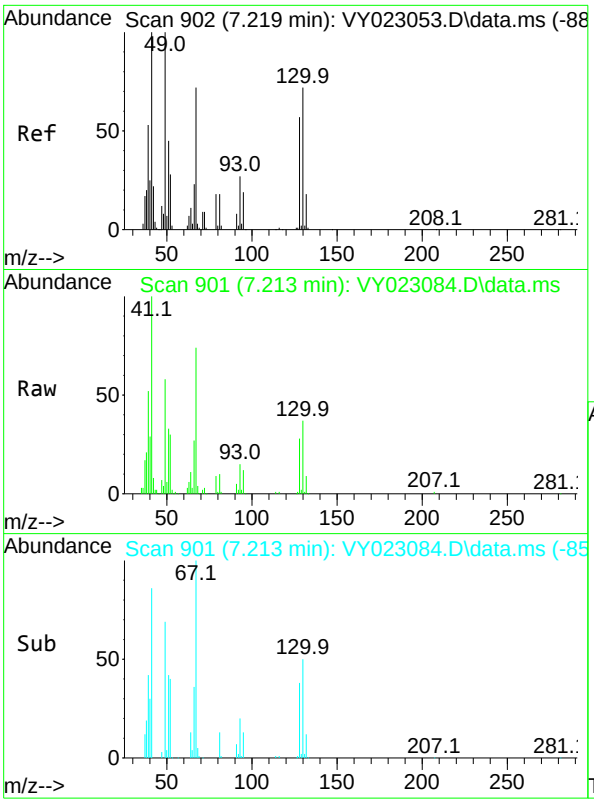


#40
Benzene
Concen: 57.200 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 78 Resp: 1015204

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0



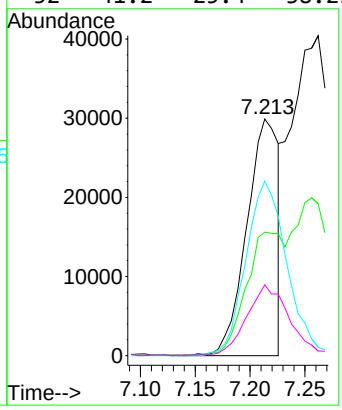


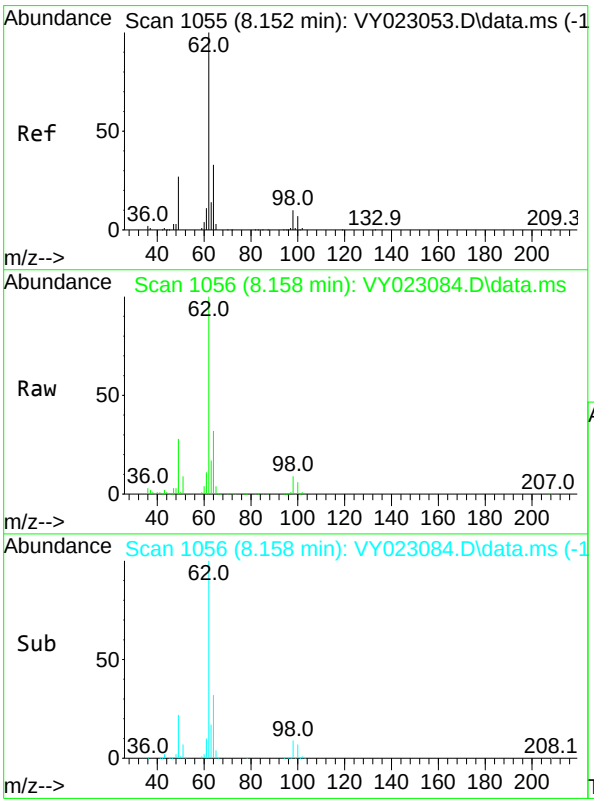
#41
Methacrylonitrile
Concen: 43.117 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 60193

Ion	Ratio	Lower	Upper
41	100		
39	62.5	43.4	65.2
67	95.9	63.6	95.4#
52	41.2	25.4	38.2#

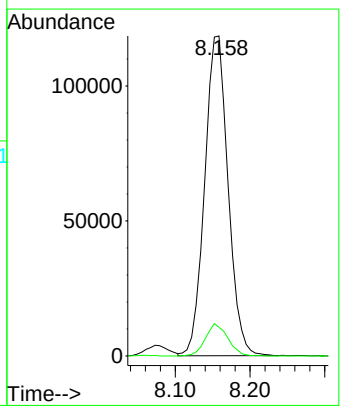


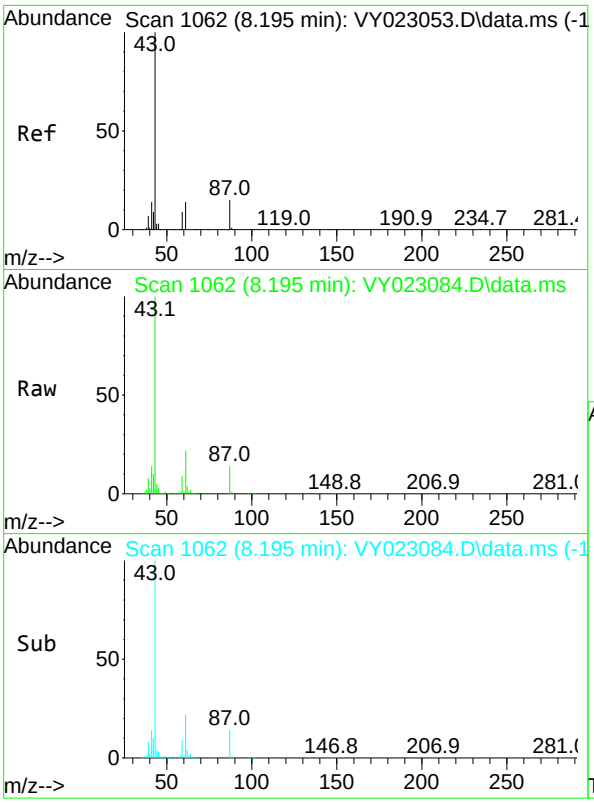


#42
1,2-Dichloroethane
Concen: 55.883 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 257953

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6



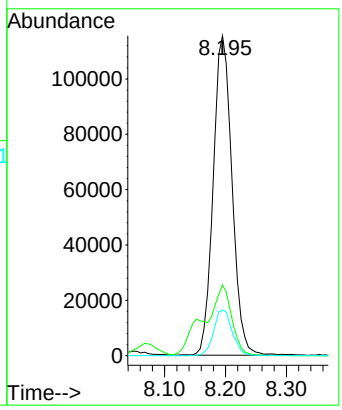


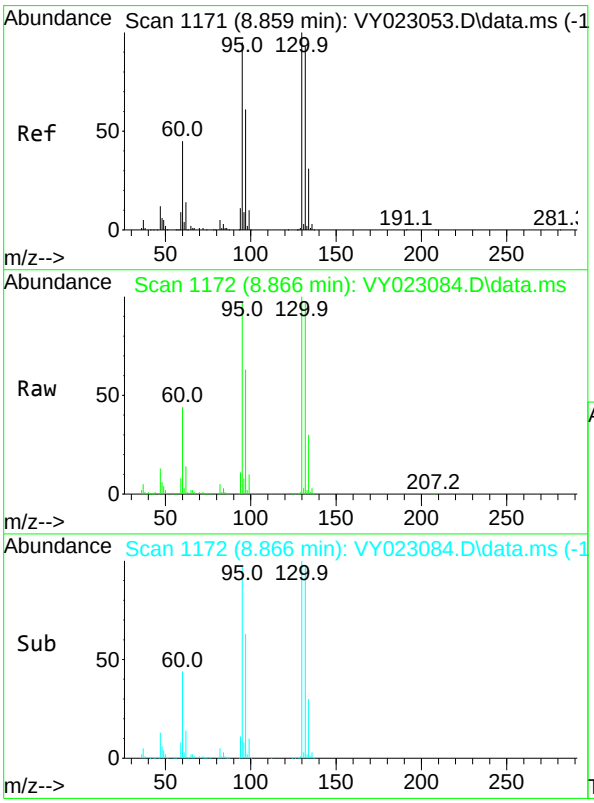
#43
Isopropyl Acetate
Concen: 50.705 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 247901

Ion	Ratio	Lower	Upper
43	100		
61	21.2	16.4	24.6
87	14.2	11.8	17.6

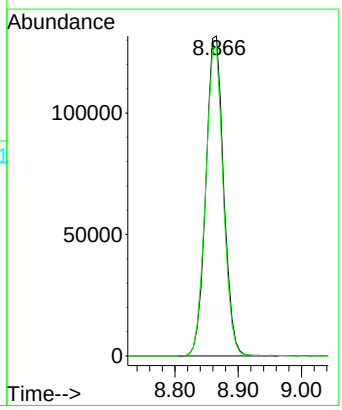


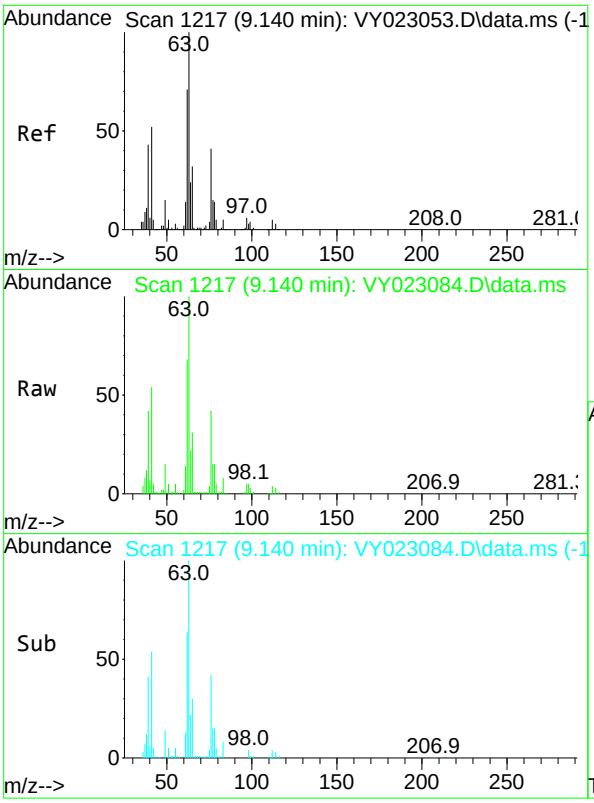


#44
Trichloroethene
Concen: 56.001 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:130 Resp: 256850

Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	190.2



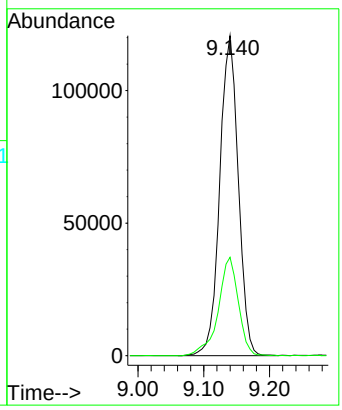


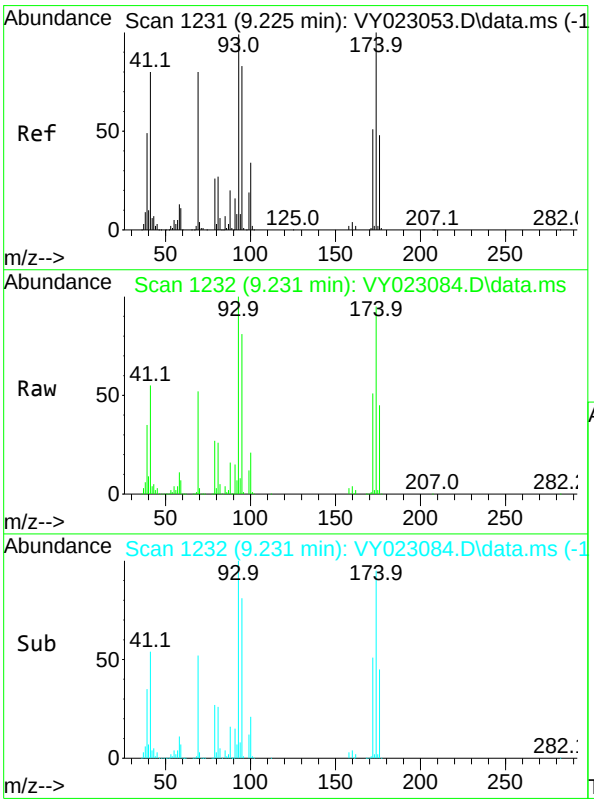
#45
1,2-Dichloropropane
Concen: 58.028 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 236969

Ion	Ratio	Lower	Upper
63	100		
65	30.7	25.3	37.9

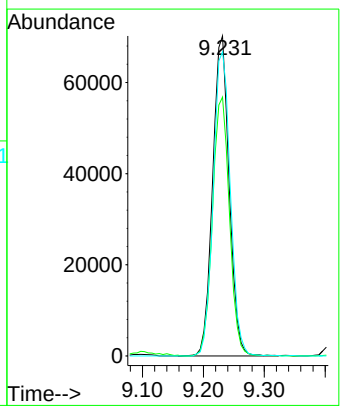


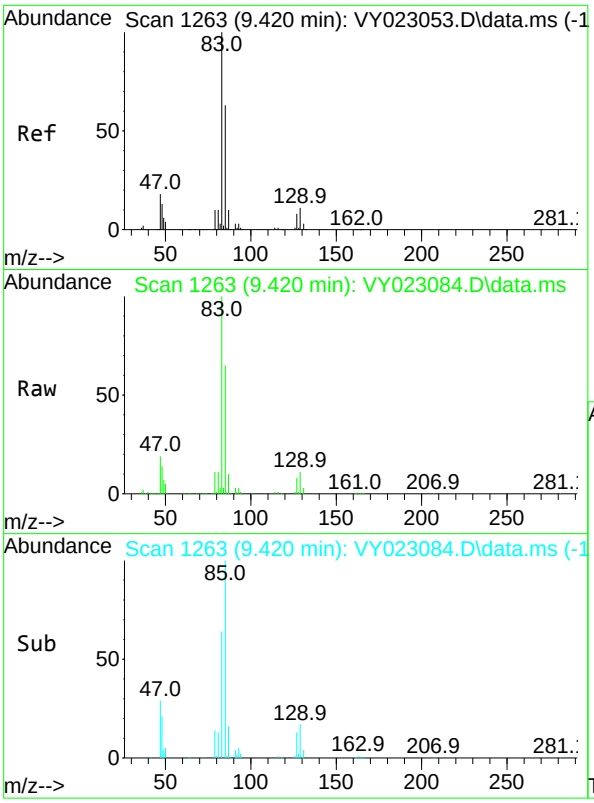


#46
Dibromomethane
Concen: 56.649 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 93 Resp: 132779

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.5	99.7
174	98.1	81.8	122.8



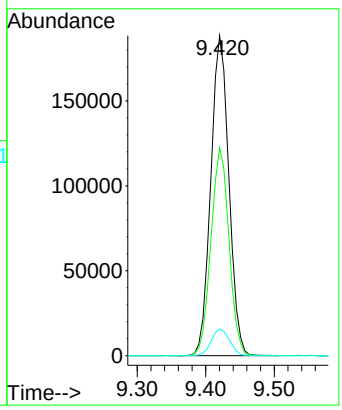


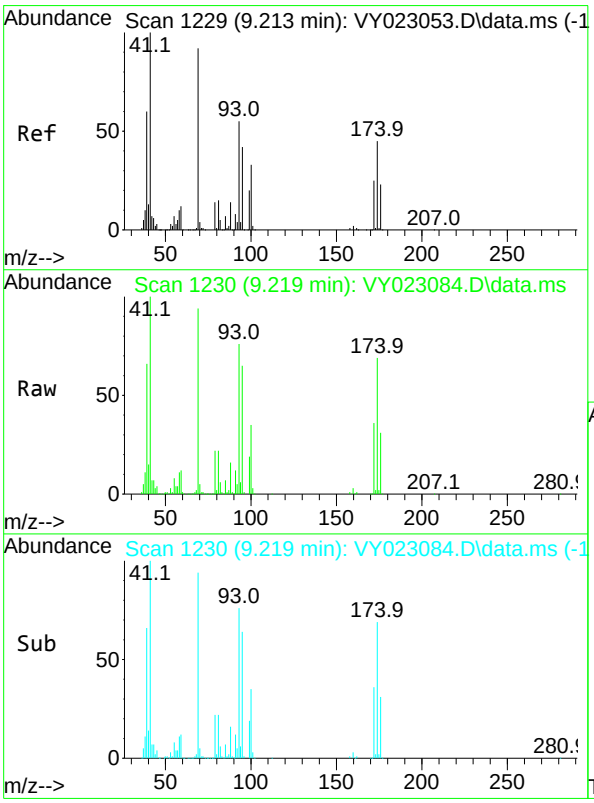
#47
Bromodichloromethane
Concen: 57.122 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 344511

Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.2	75.4
127	8.3	6.6	10.0

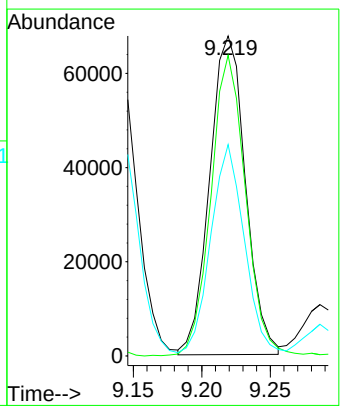


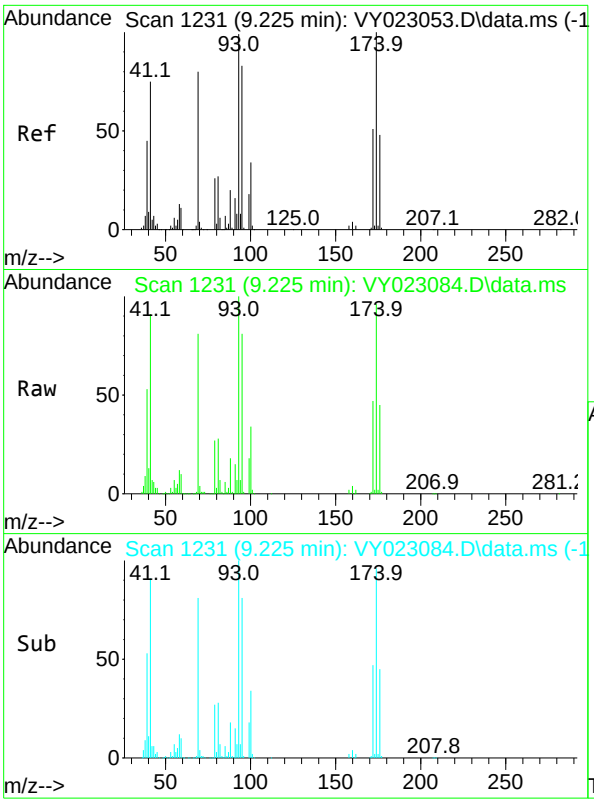


#48
Methyl methacrylate
Concen: 52.585 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 123024

Ion	Ratio	Lower	Upper
41	100		
69	91.9	73.2	109.8
39	60.6	47.0	70.4



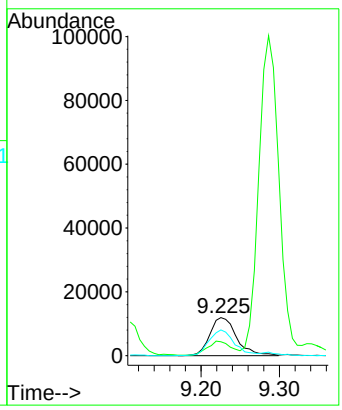


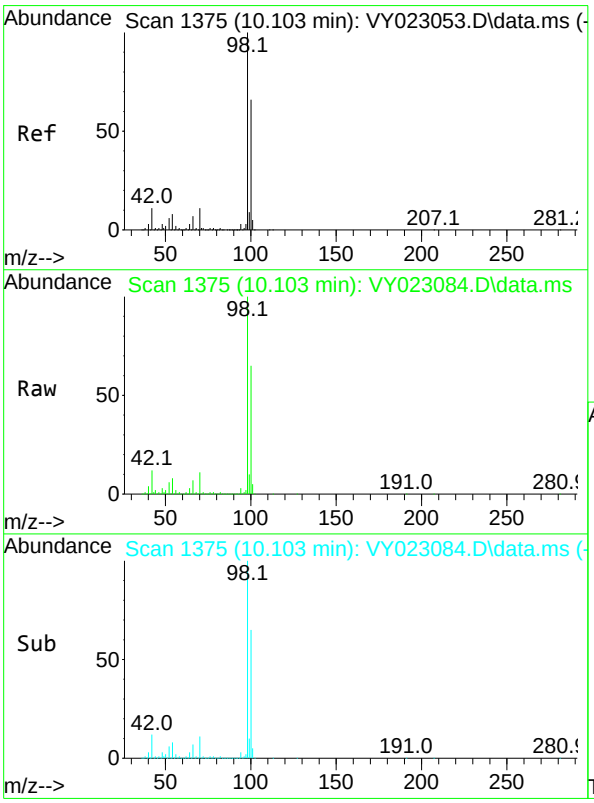
#49
1,4-Dioxane
Concen: 1033.218 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28396

Ion	Ratio	Lower	Upper
88	100		
43	32.2	24.3	36.5
58	64.3	55.4	83.0

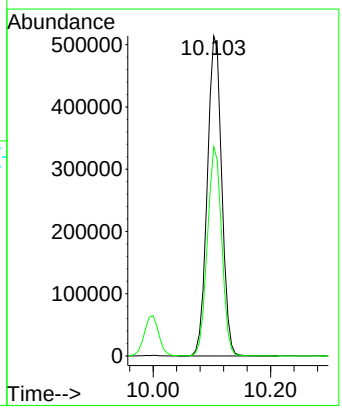


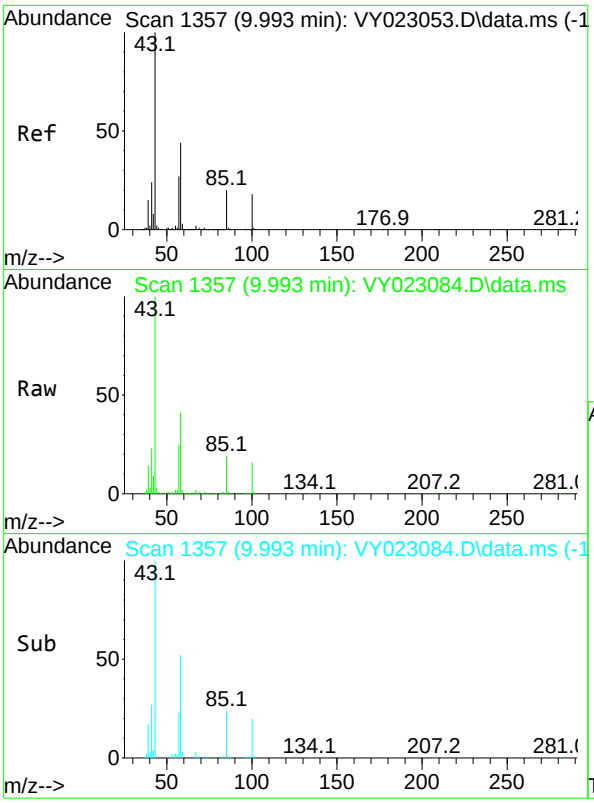


#50
Toluene-d8
Concen: 57.835 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 98 Resp: 875441

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5



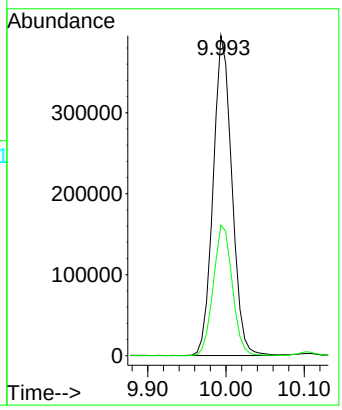


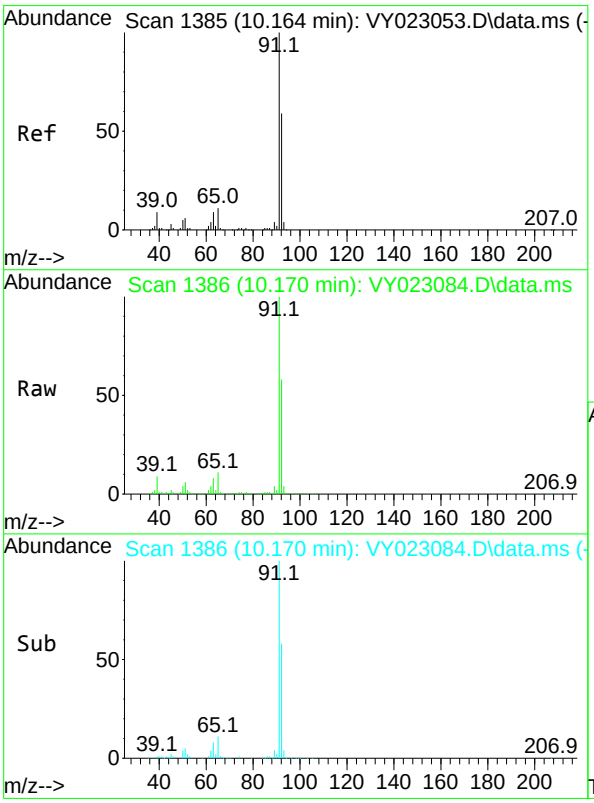
#51
4-Methyl-2-Pentanone
Concen: 260.657 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 657357

Ion	Ratio	Lower	Upper
43	100		
58	41.5	33.5	50.3

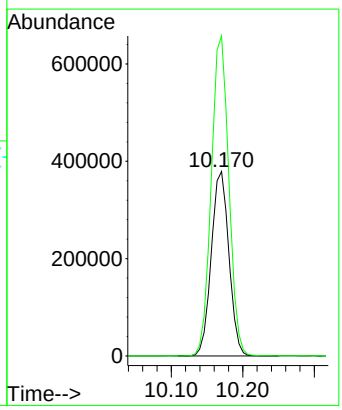


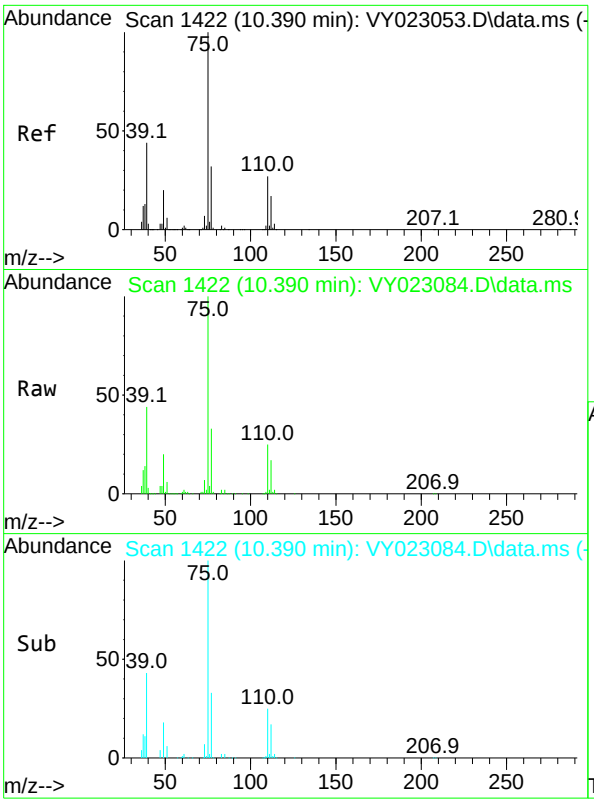


#52
Toluene
Concen: 57.441 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 92 Resp: 647492

Ion	Ratio	Lower	Upper
92	100		
91	173.1	136.4	204.6



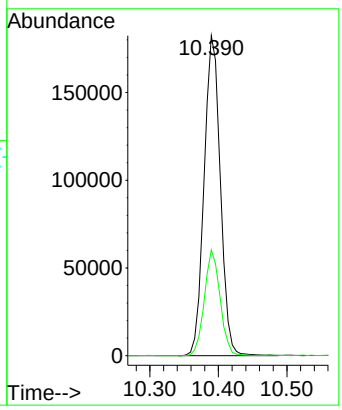


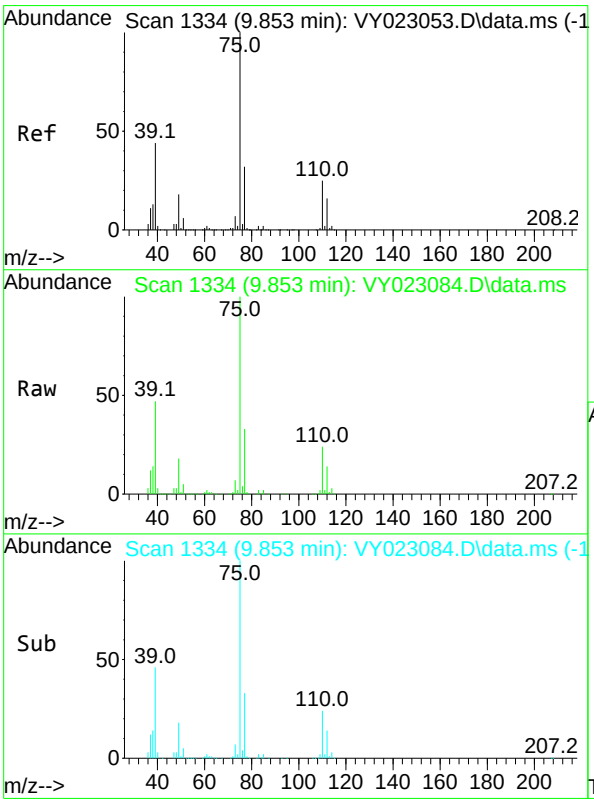
#53
t-1,3-Dichloropropene
Concen: 55.165 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 301282

Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.7	38.5

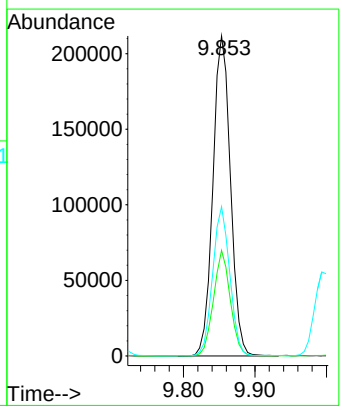


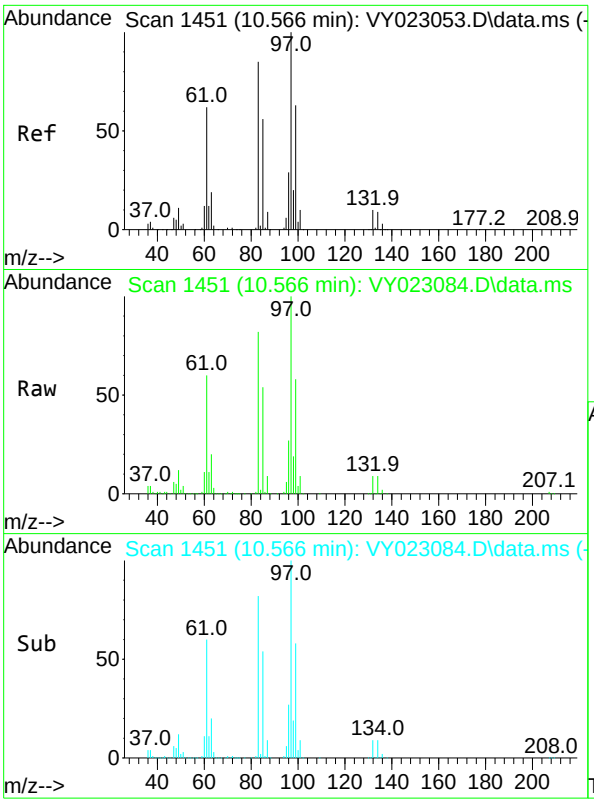


#54
cis-1,3-Dichloropropene
Concen: 55.890 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 360945

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.4	38.0
39	46.5	35.6	53.4



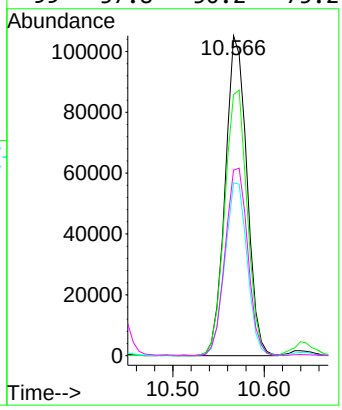


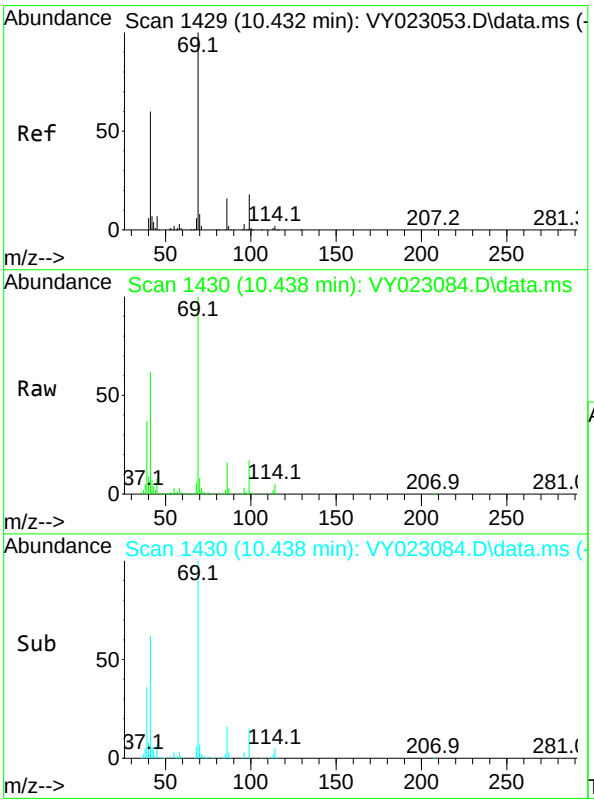
#55
1,1,2-Trichloroethane
Concen: 55.184 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 173079

Ion	Ratio	Lower	Upper
97	100		
83	81.6	67.7	101.5
85	54.0	44.5	66.7
99	57.8	50.2	75.2

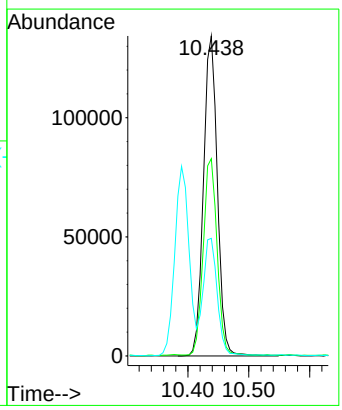


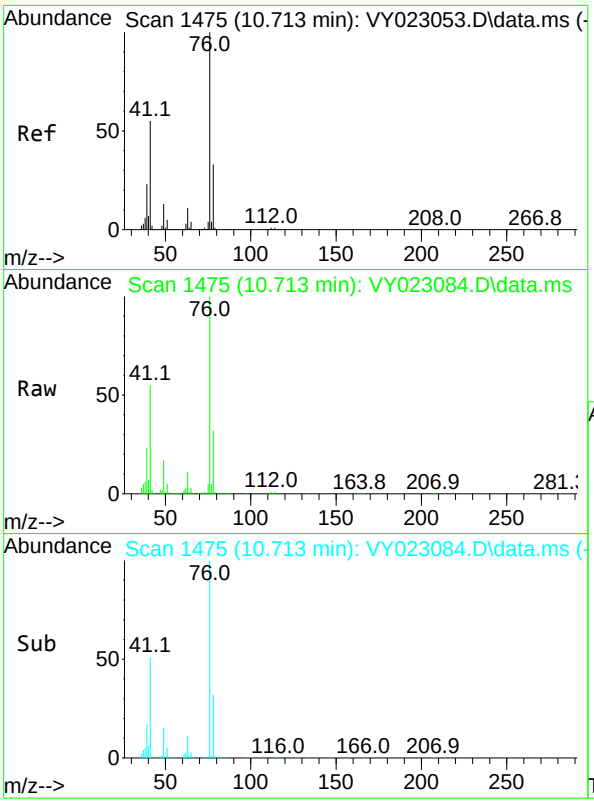


#56
Ethyl methacrylate
Concen: 53.193 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 69 Resp: 213481

Ion	Ratio	Lower	Upper
69	100		
41	61.4	48.6	72.8
39	37.0	27.0	40.4



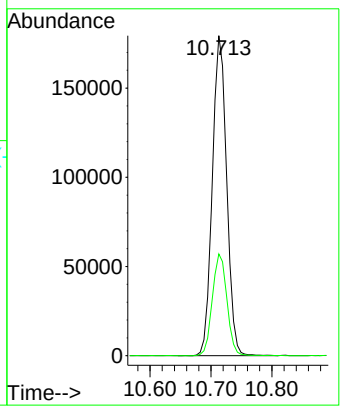


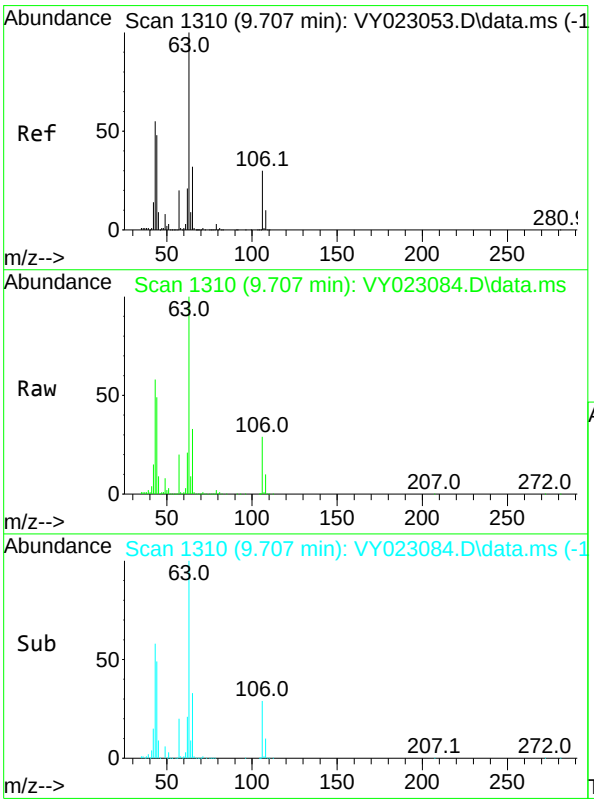
#57
1,3-Dichloropropane
Concen: 55.040 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 292765

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.0	39.0

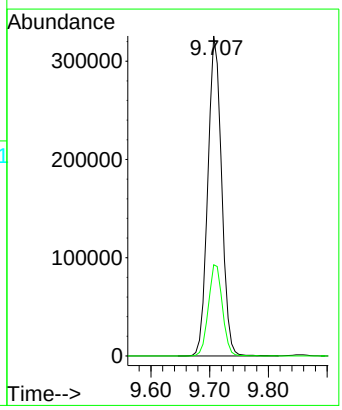


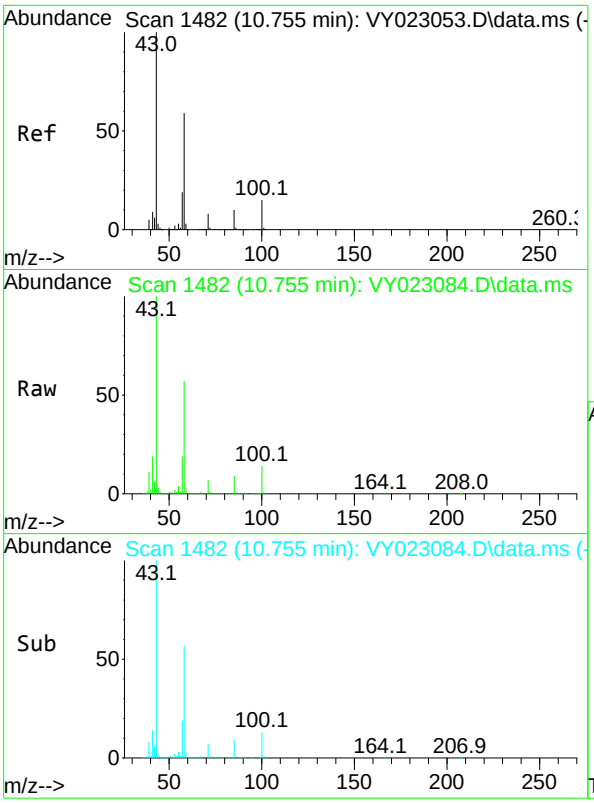


#58
2-Chloroethyl Vinyl ether
Concen: 280.099 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 530251

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8



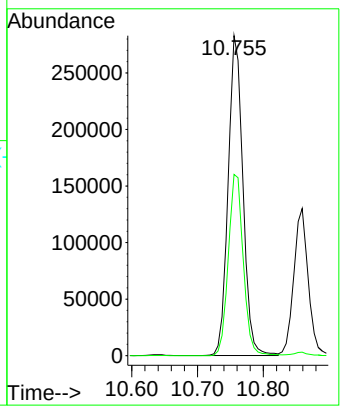


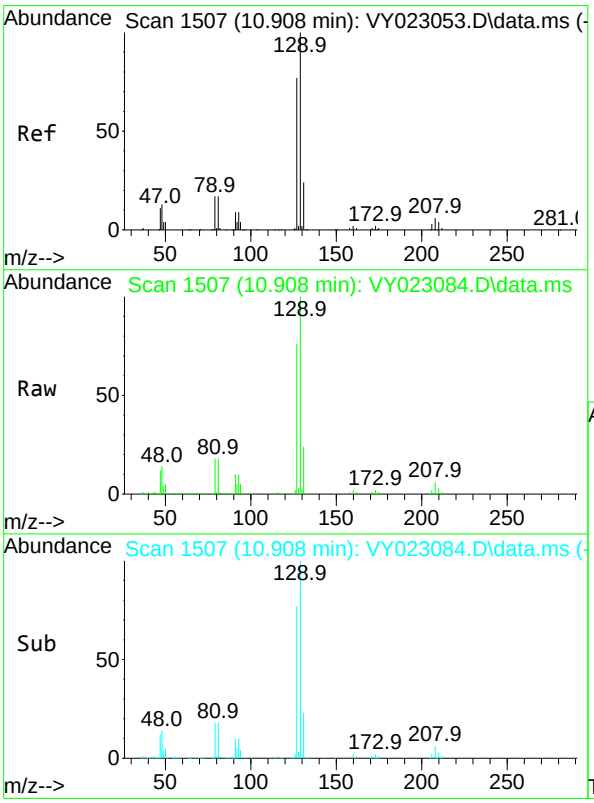
#59
2-Hexanone
Concen: 257.924 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 442922

Ion	Ratio	Lower	Upper
43	100		
58	57.4	29.5	88.5

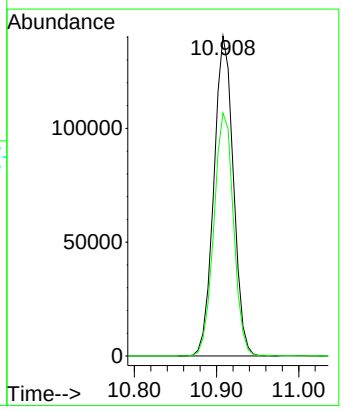


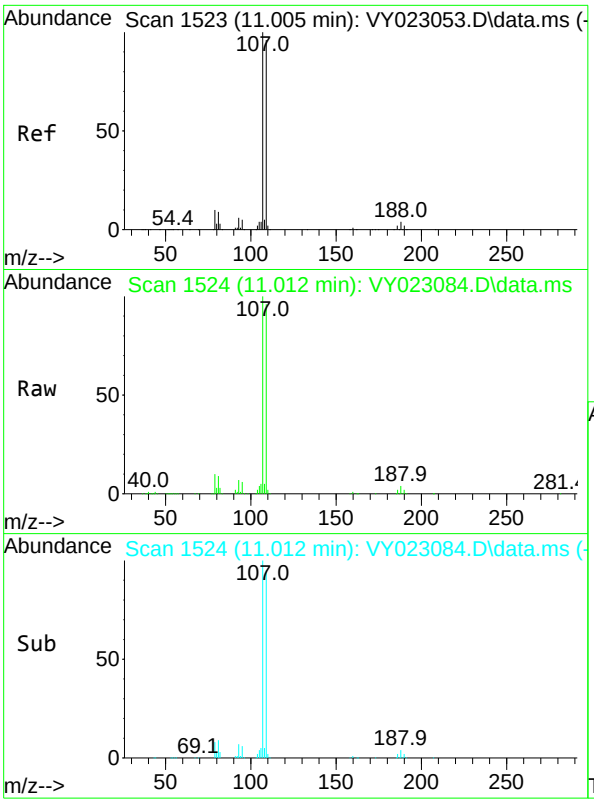


#60
Dibromochloromethane
Concen: 55.947 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:129 Resp: 231534

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.5	115.5



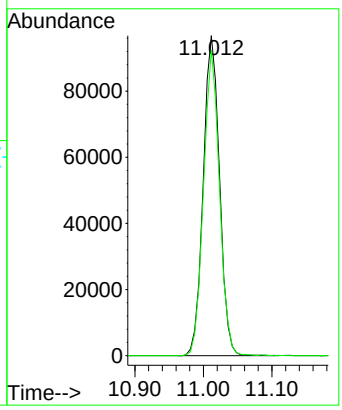


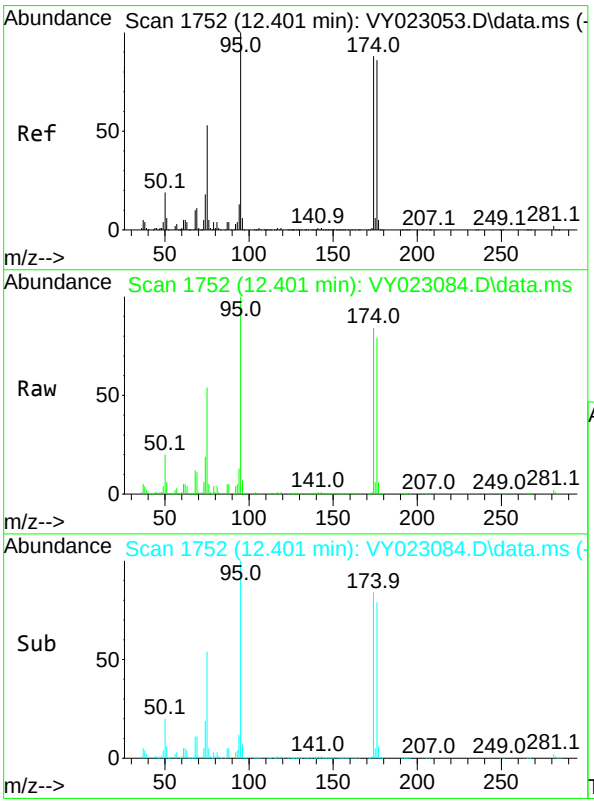
#61
1,2-Dibromoethane
Concen: 54.265 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 159967

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.6	113.4

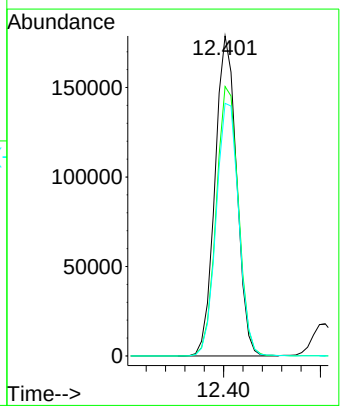


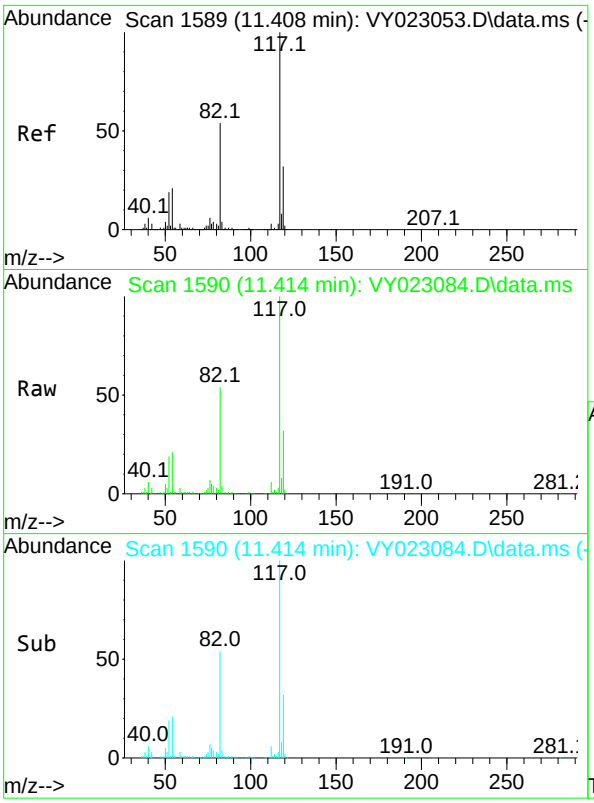


#62
4-Bromofluorobenzene
Concen: 56.822 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 95 Resp: 276611

Ion	Ratio	Lower	Upper
95	100		
174	86.6	0.0	171.6
176	82.3	0.0	167.6



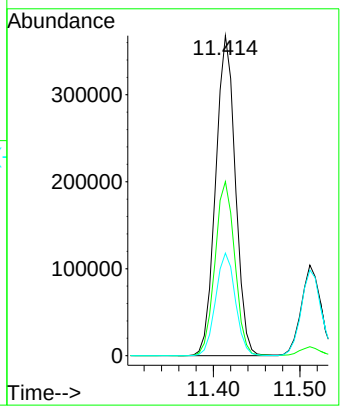


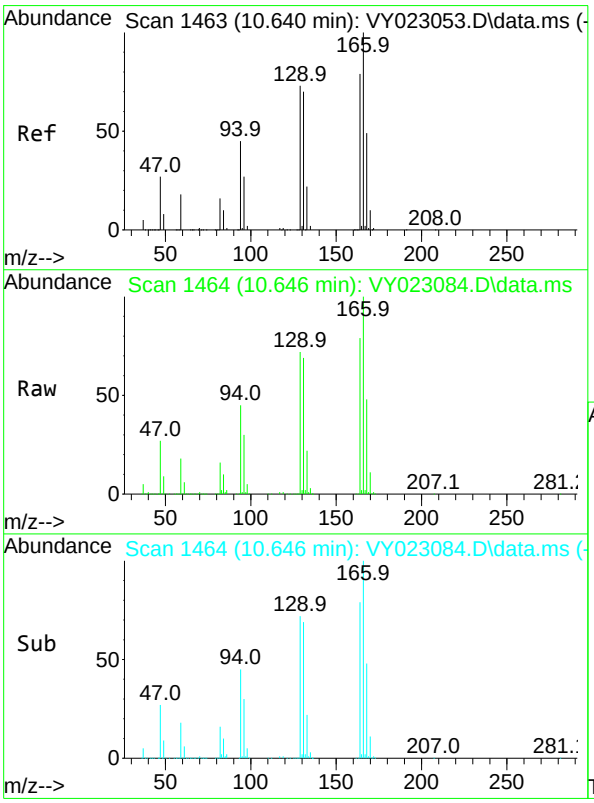
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 582049

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	32.0	25.6	38.4

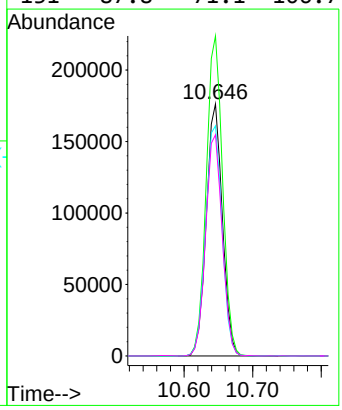


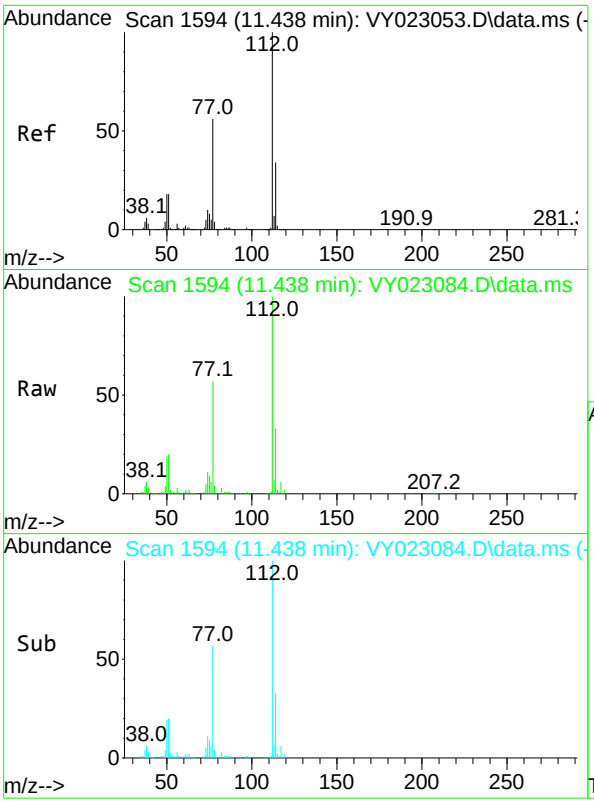


#64
Tetrachloroethene
Concen: 55.420 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:164 Resp: 288037

Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.1	151.7
129	91.4	74.0	111.0
131	87.8	71.1	106.7



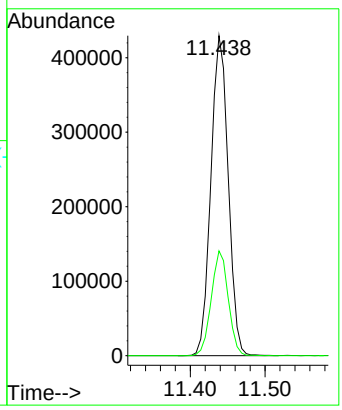


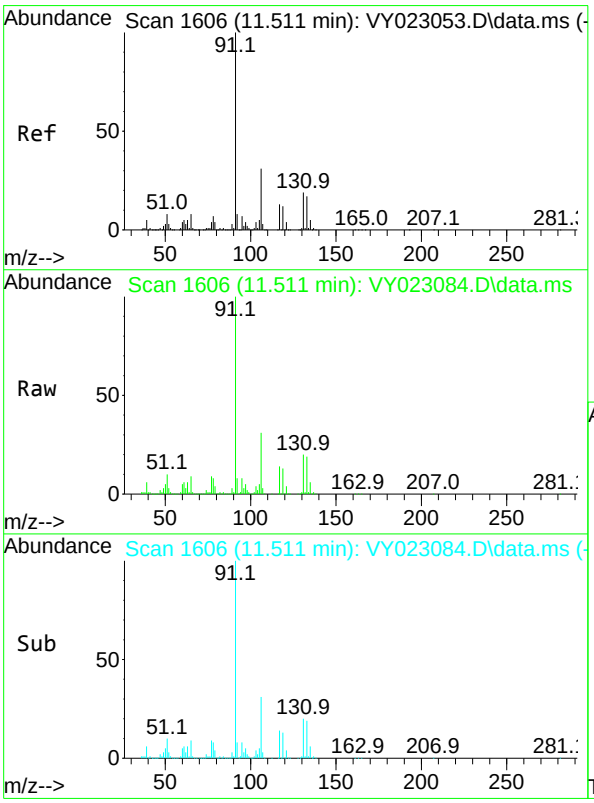
#65
Chlorobenzene
Concen: 55.261 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 693789

Ion	Ratio	Lower	Upper
112	100		
114	32.7	27.0	40.4

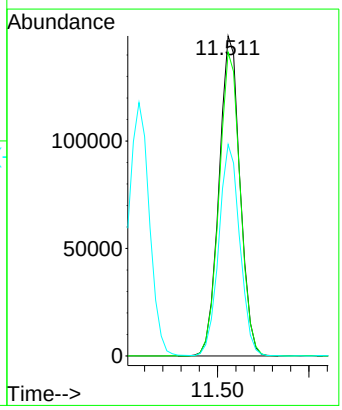


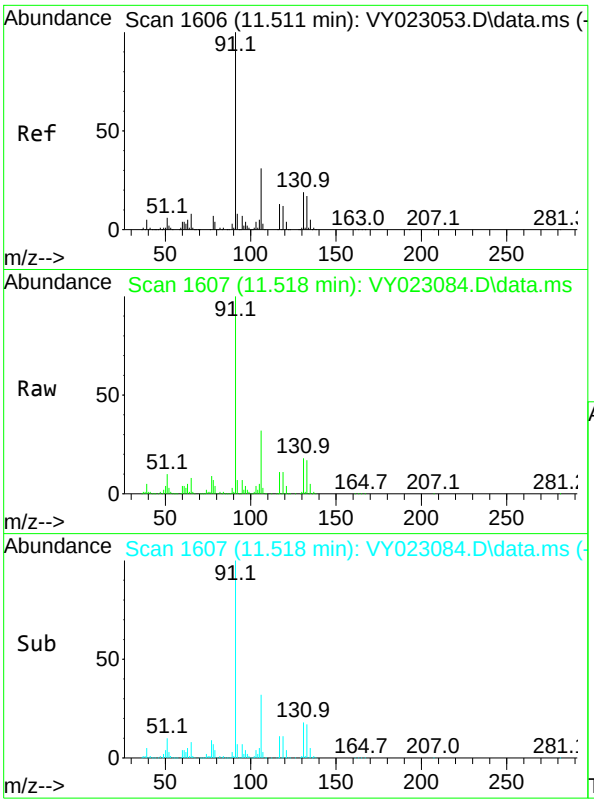


#66
1,1,1,2-Tetrachloroethane
Concen: 55.623 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:131 Resp: 237008

Ion	Ratio	Lower	Upper
131	100		
133	95.6	46.9	140.6
119	66.3	33.2	99.6



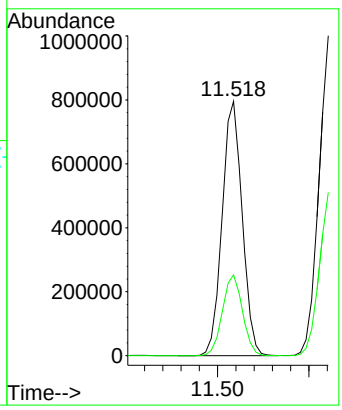


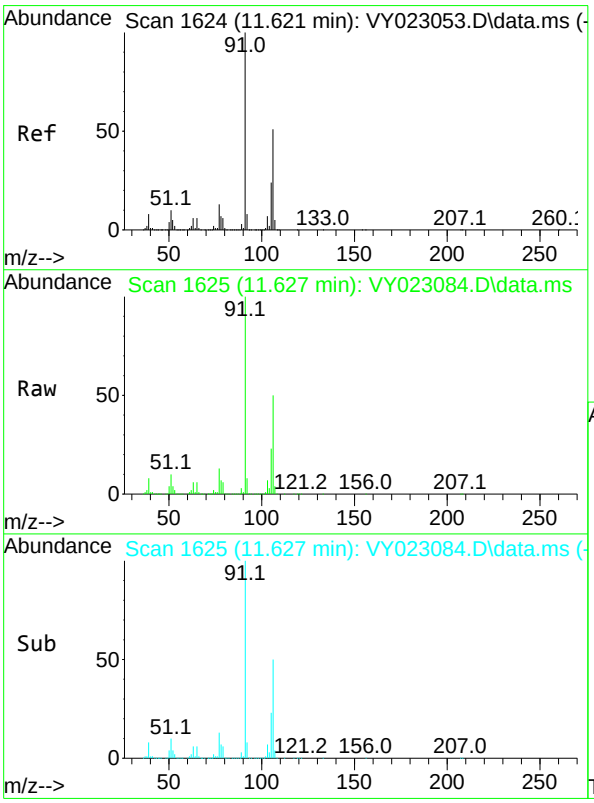
#67
Ethyl Benzene
Concen: 56.146 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1213079

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

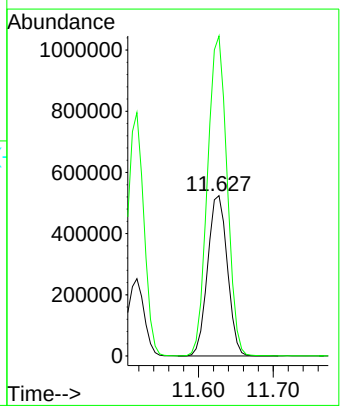


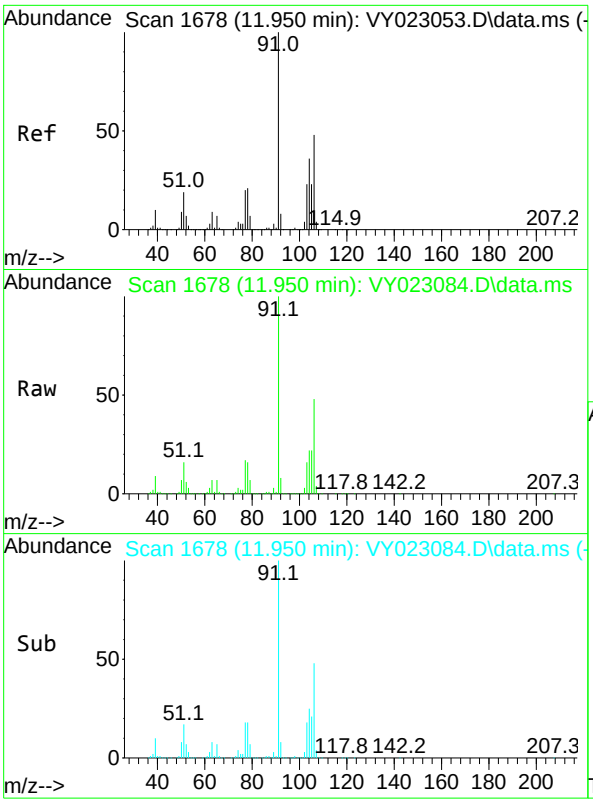


#68
m/p-Xylenes
Concen: 113.678 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:106 Resp: 959256

Ion	Ratio	Lower	Upper
106	100		
91	198.3	158.6	238.0



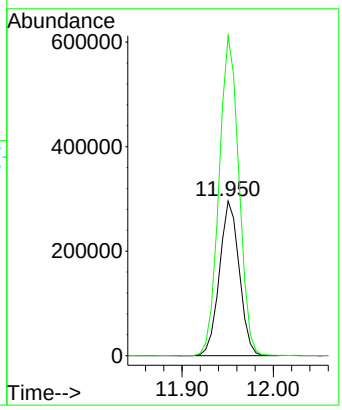


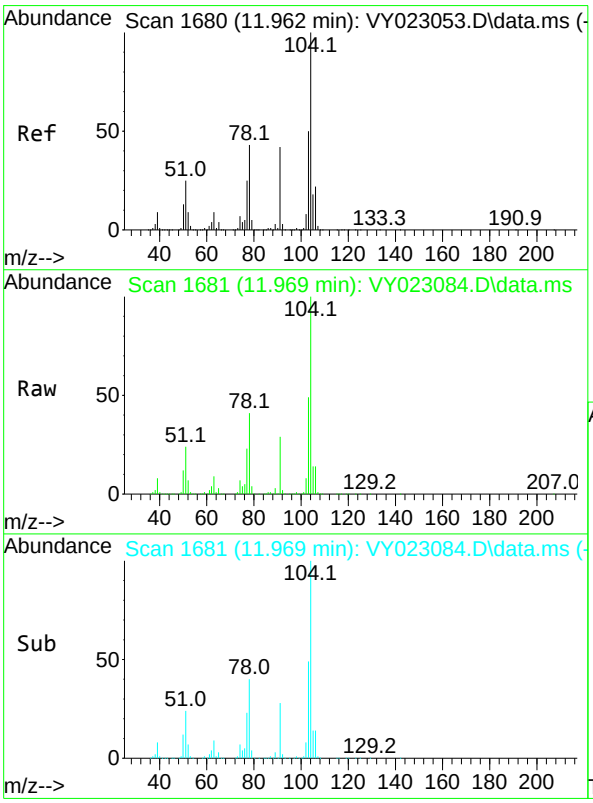
#69
o-Xylene
Concen: 56.368 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 445491

Ion	Ratio	Lower	Upper
106	100		
91	207.9	103.2	309.4

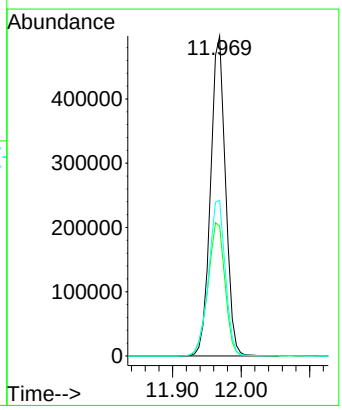


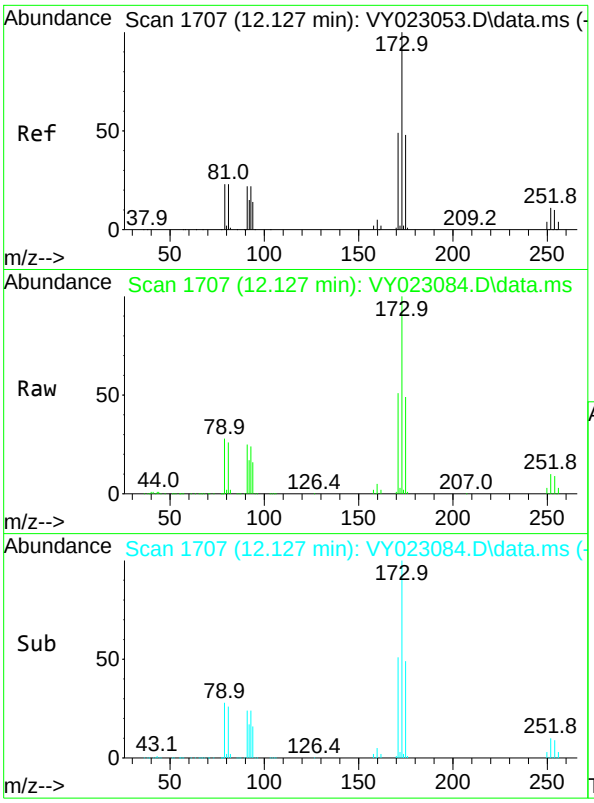


#70
Styrene
Concen: 58.442 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:104 Resp: 755359

Ion	Ratio	Lower	Upper
104	100		
78	47.6	38.5	57.7
103	54.3	43.7	65.5



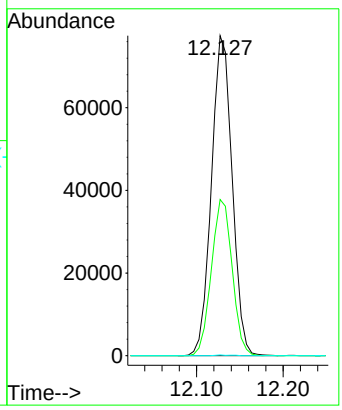


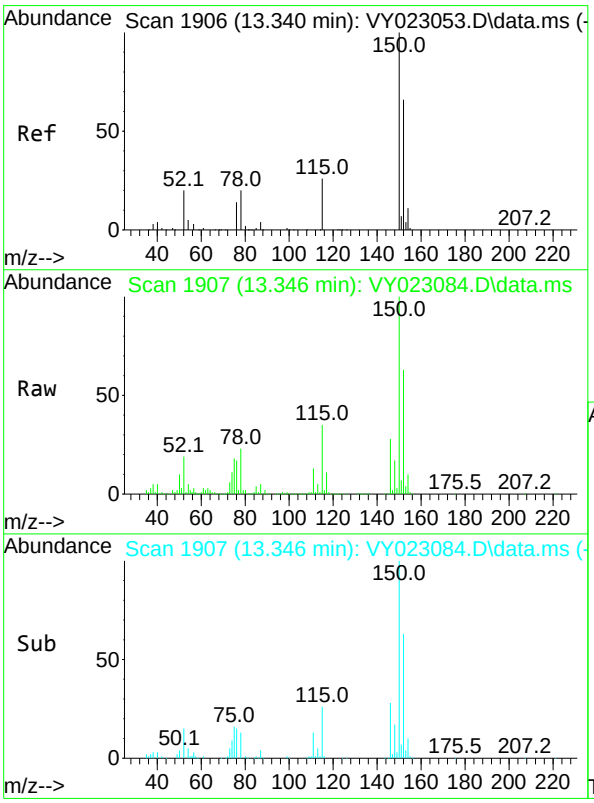
#71
Bromoform
Concen: 51.645 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 128615

Ion	Ratio	Lower	Upper
173	100		
175	49.0	23.9	71.7
254	0.2	0.1	0.1#

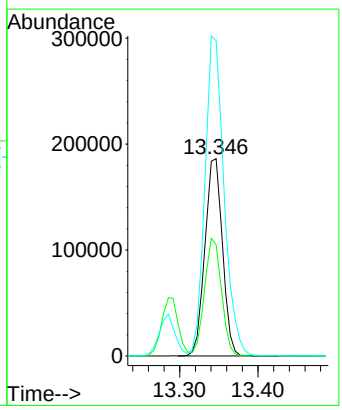


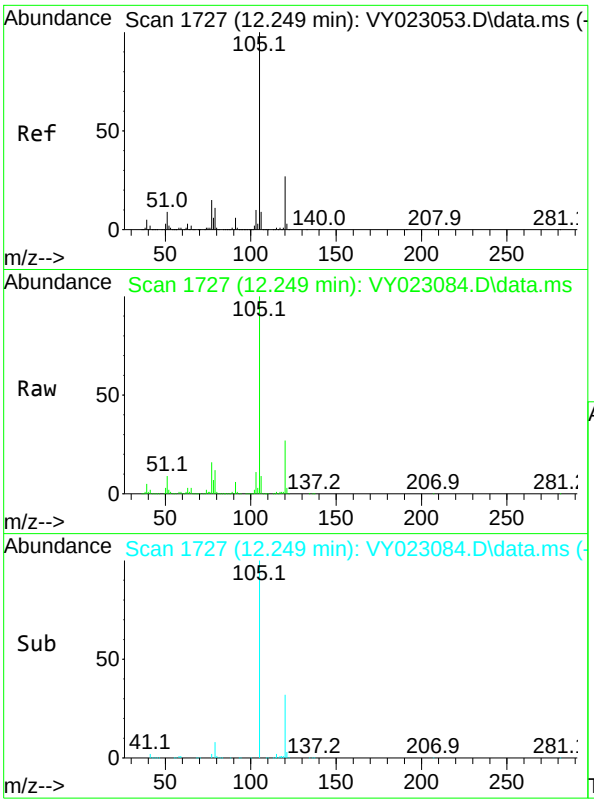


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:152 Resp: 290049

Ion	Ratio	Lower	Upper
152	100		
115	57.2	28.2	84.6
150	176.3	0.0	348.0



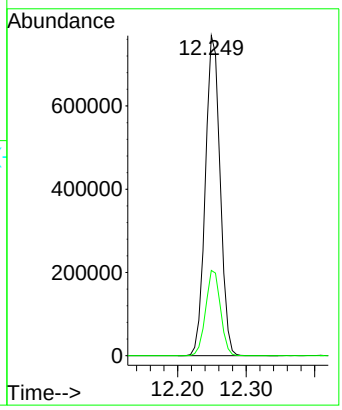


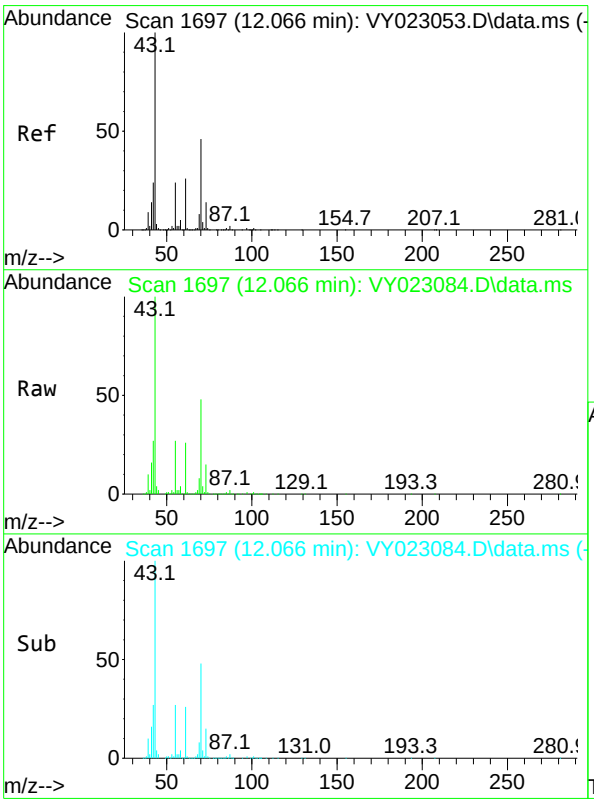
#73
Isopropylbenzene
Concen: 56.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1153144

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.2

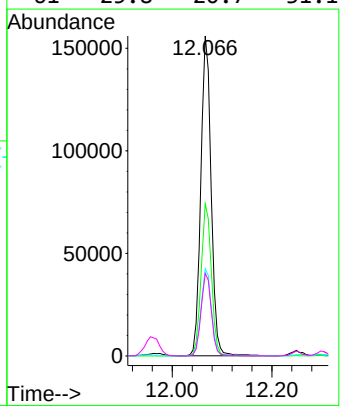


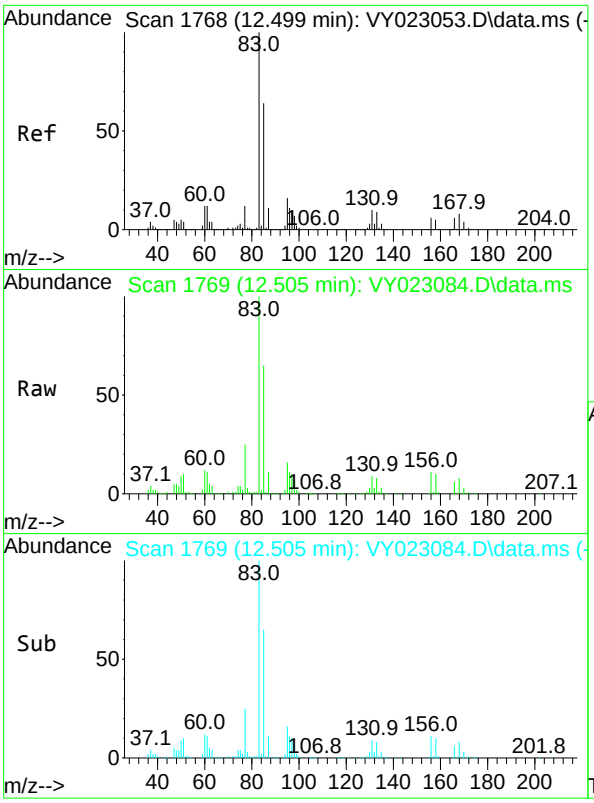


#74
N-amyl acetate
Concen: 51.690 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 224404

Ion	Ratio	Lower	Upper
43	100		
70	47.2	37.5	56.3
55	27.8	20.7	31.1
61	25.8	20.7	31.1



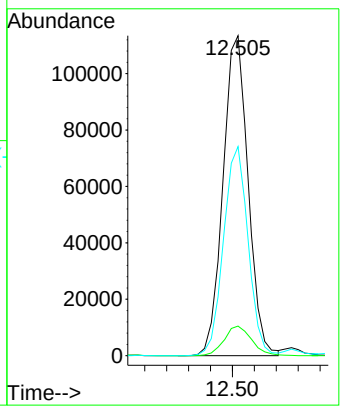


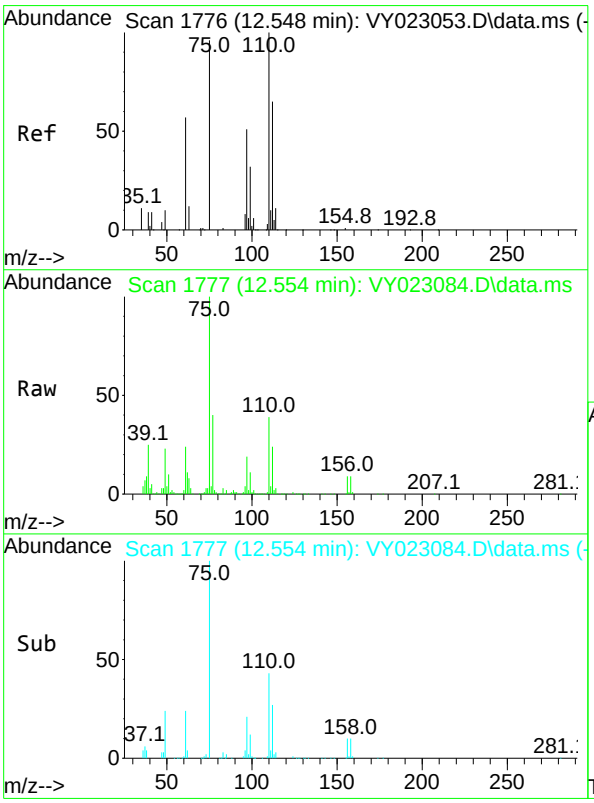
#75
1,1,2,2-Tetrachloroethane
Concen: 51.630 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 180470

Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	64.0	31.8	95.3

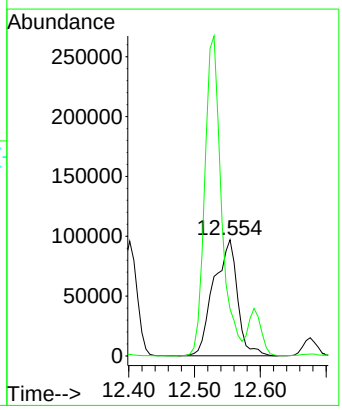


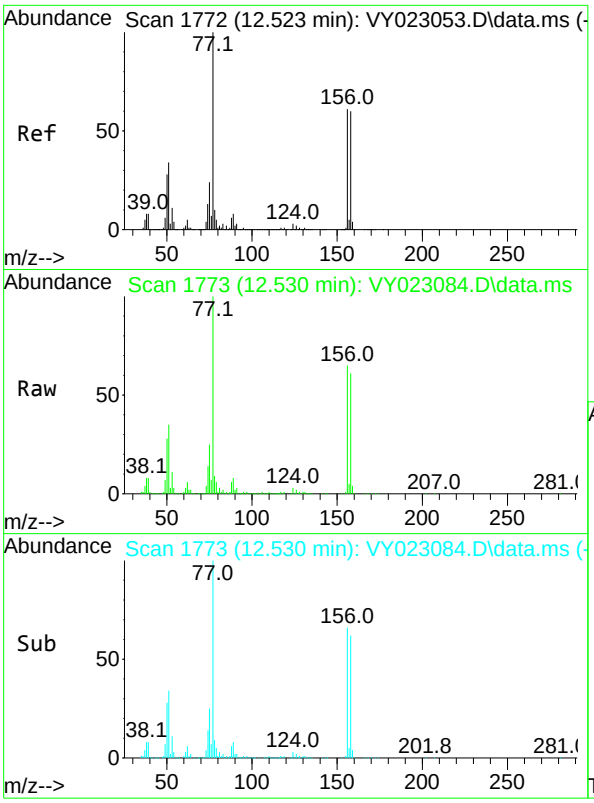


#76
1,2,3-Trichloropropane
Concen: 87.276 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 244310

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



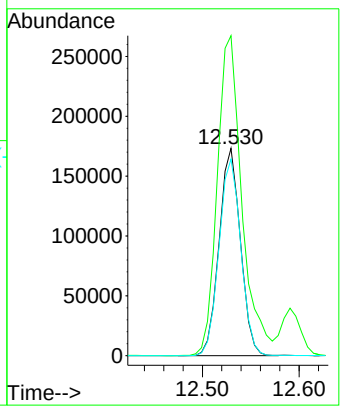


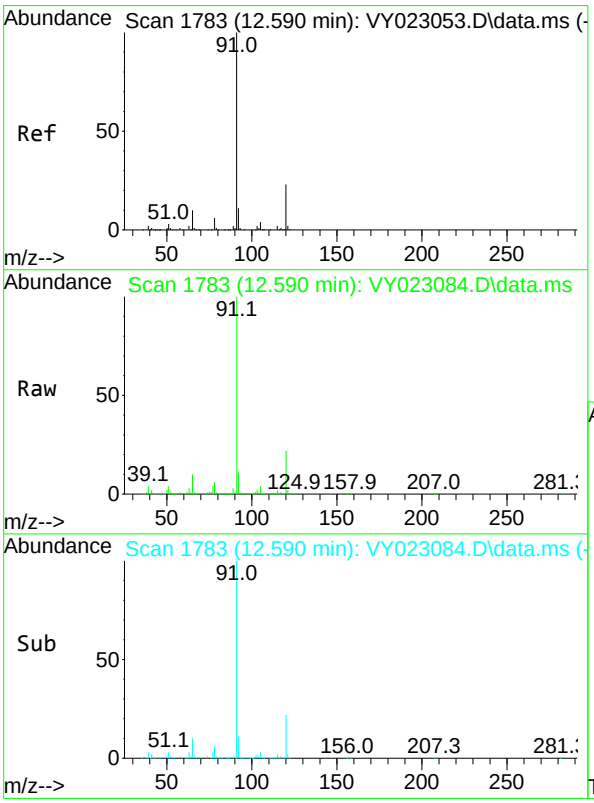
#77
Bromobenzene
Concen: 54.218 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 264791

Ion	Ratio	Lower	Upper
156	100		
77	178.6	88.1	264.4
158	97.1	48.0	144.0

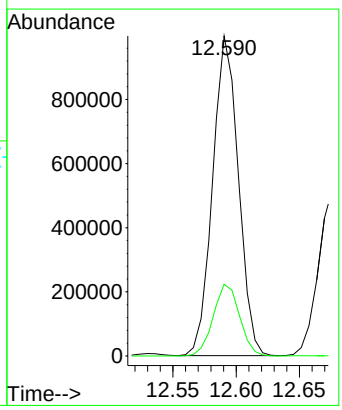


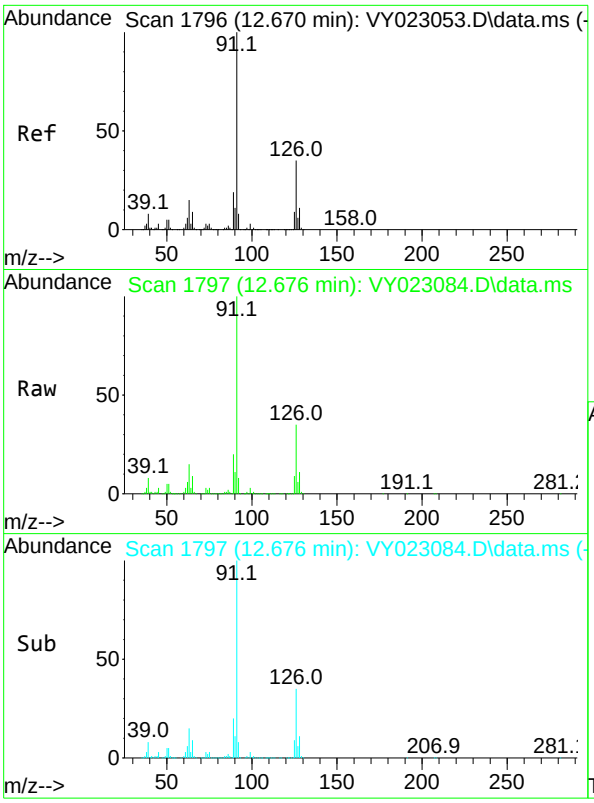


#78
n-propylbenzene
Concen: 57.928 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 1411858

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



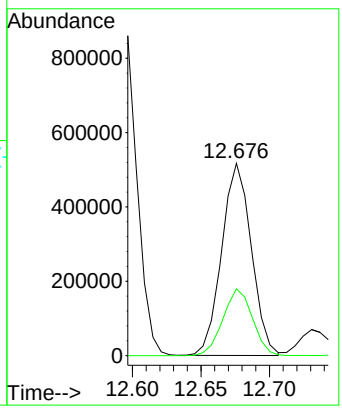


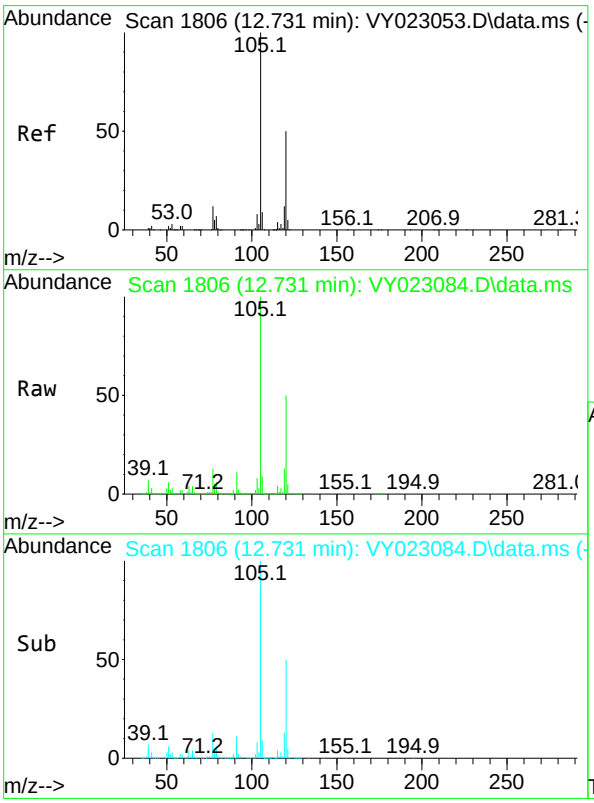
#79
2-Chlorotoluene
Concen: 55.767 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 778755

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

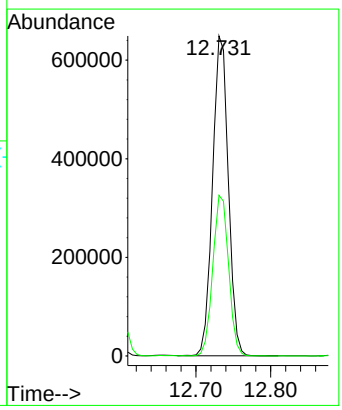


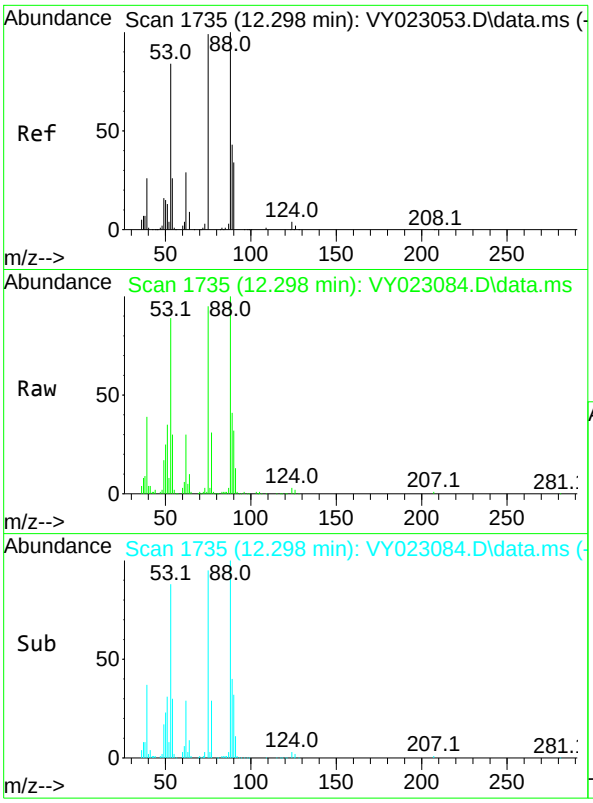


#80
1,3,5-Trimethylbenzene
Concen: 57.421 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 950021

Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.8	74.4



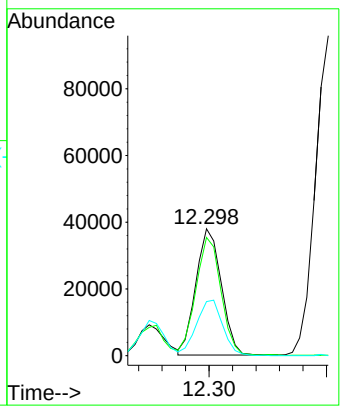


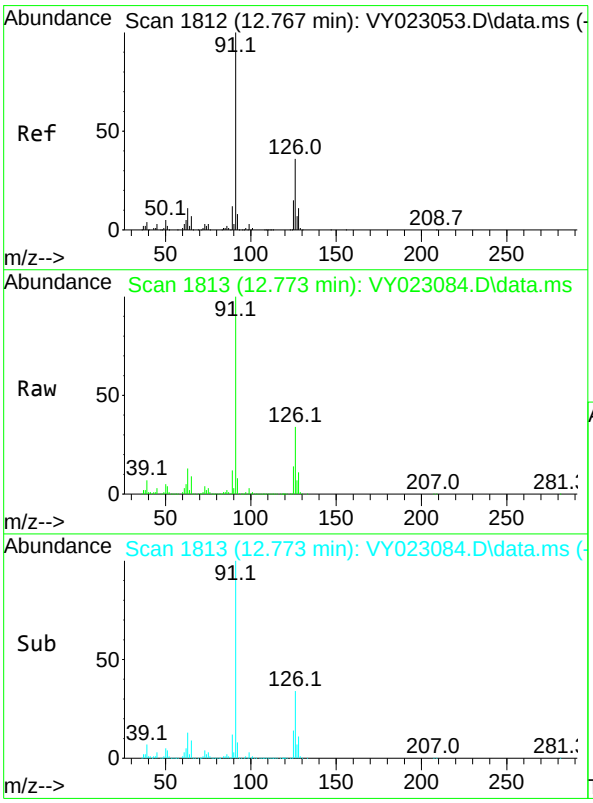
#81
trans-1,4-Dichloro-2-butene
Concen: 49.259 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 56963

Ion	Ratio	Lower	Upper
75	100		
53	92.9	70.8	106.2
89	45.6	38.1	57.1

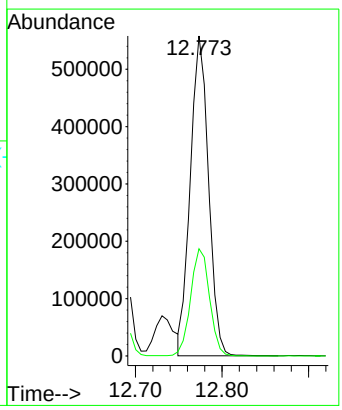


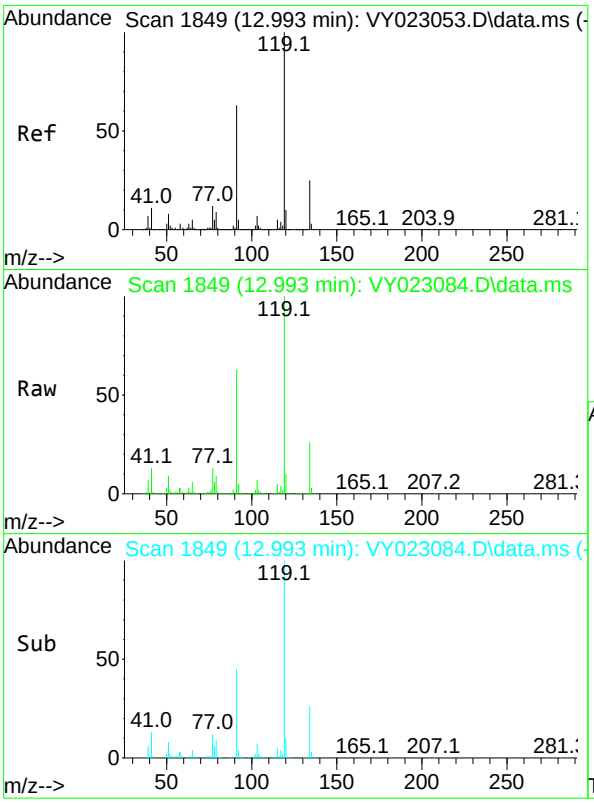


#82
4-Chlorotoluene
Concen: 56.188 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 813961

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.3	52.0



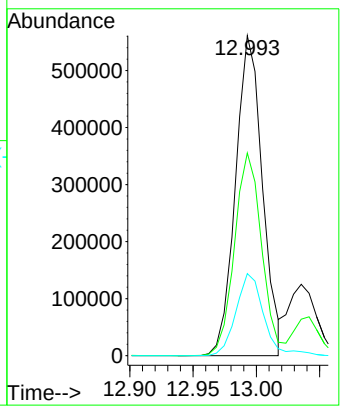


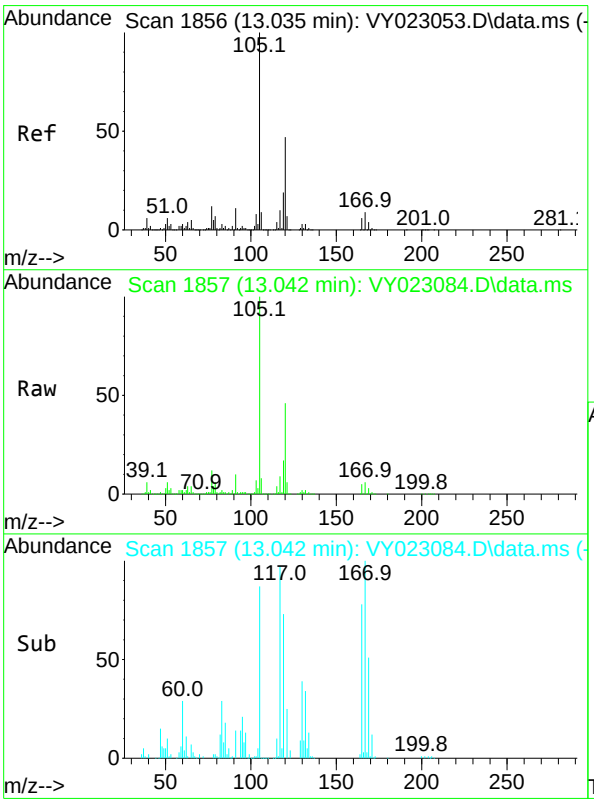
#83
tert-Butylbenzene
Concen: 55.552 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 830094

Ion	Ratio	Lower	Upper
119	100		
91	64.3	31.6	94.8
134	26.6	12.9	38.7

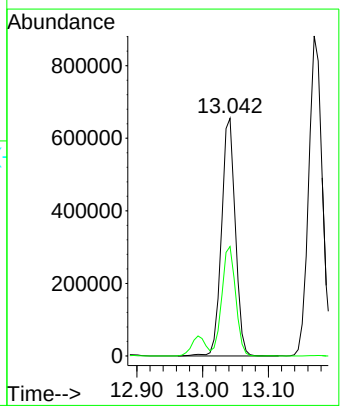


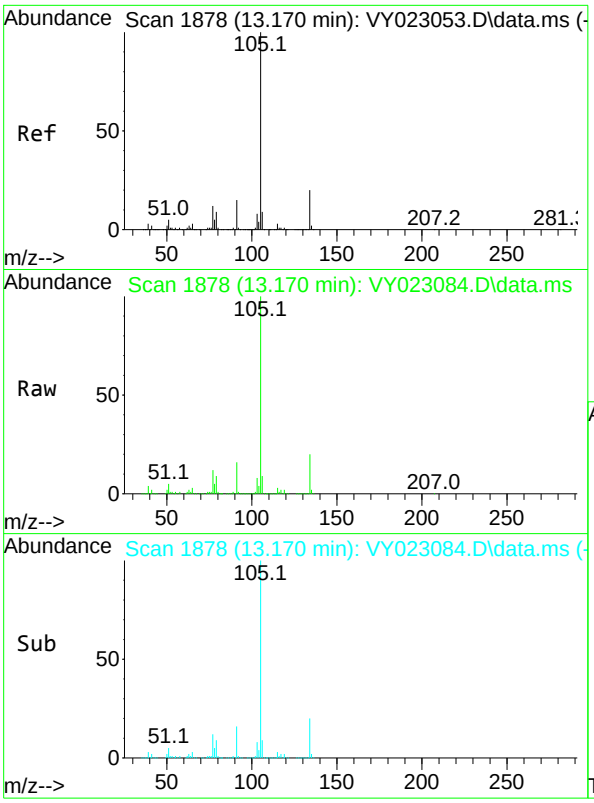


#84
1,2,4-Trimethylbenzene
Concen: 58.063 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 956285

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.0	69.0



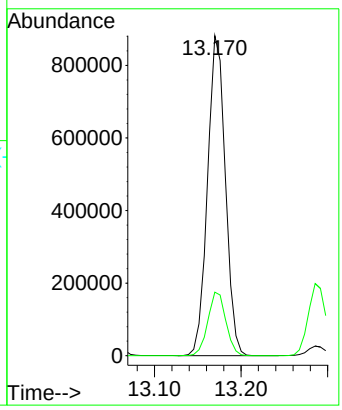


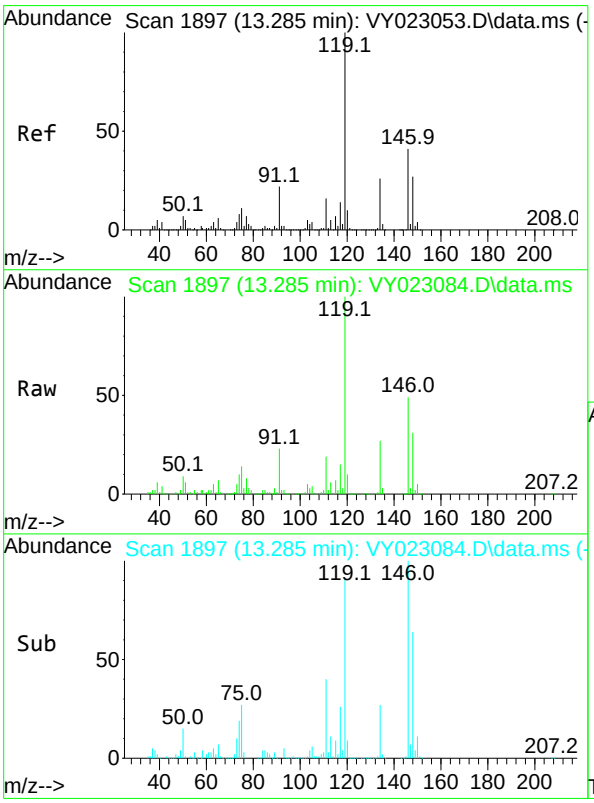
#85
sec-Butylbenzene
Concen: 57.500 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1262155

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

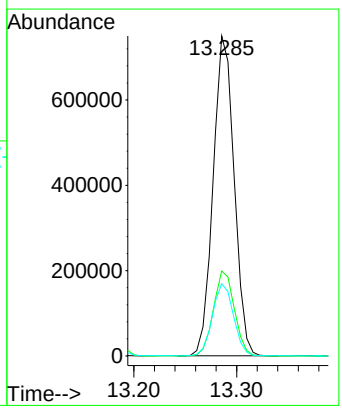


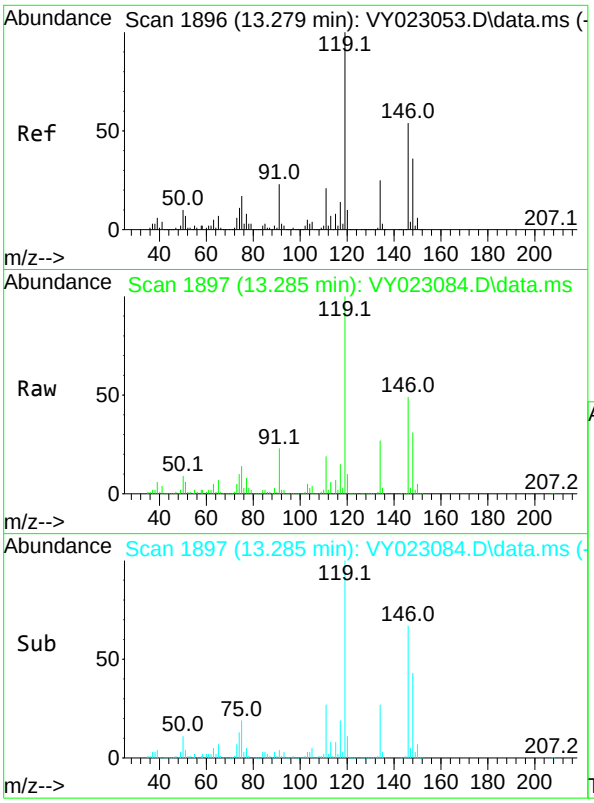


#86
p-Isopropyltoluene
Concen: 58.310 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:119 Resp: 1062415

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	22.6	11.3	33.8



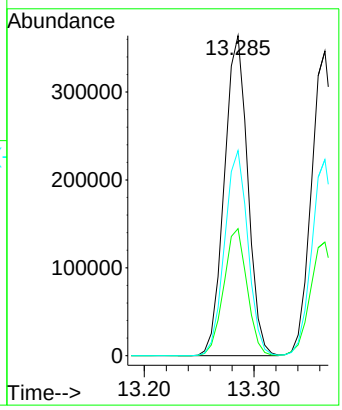


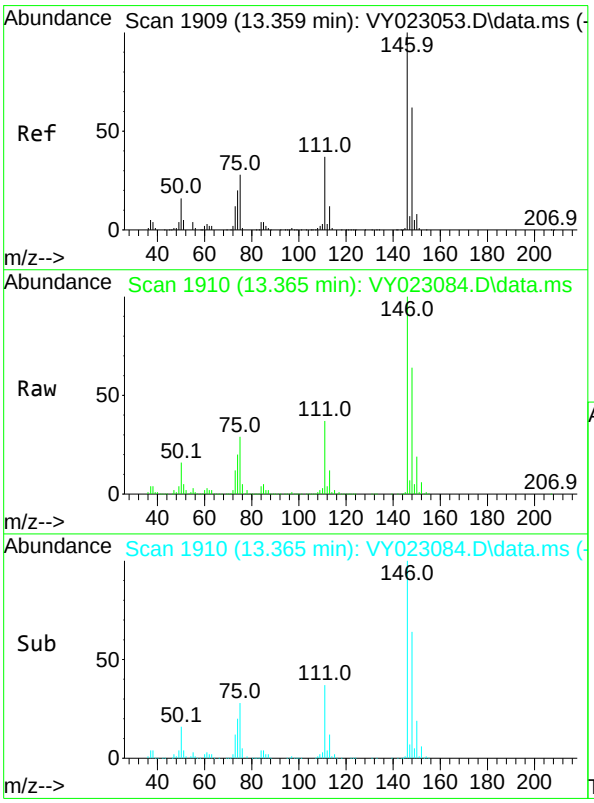
#87
1,3-Dichlorobenzene
Concen: 56.125 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 540543

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.7
148	63.8	32.5	97.5

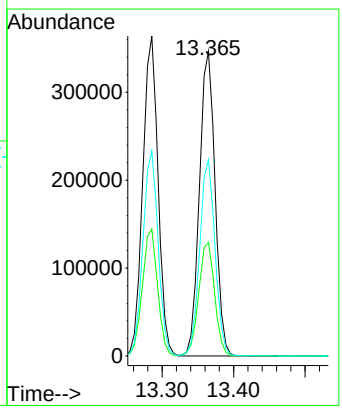


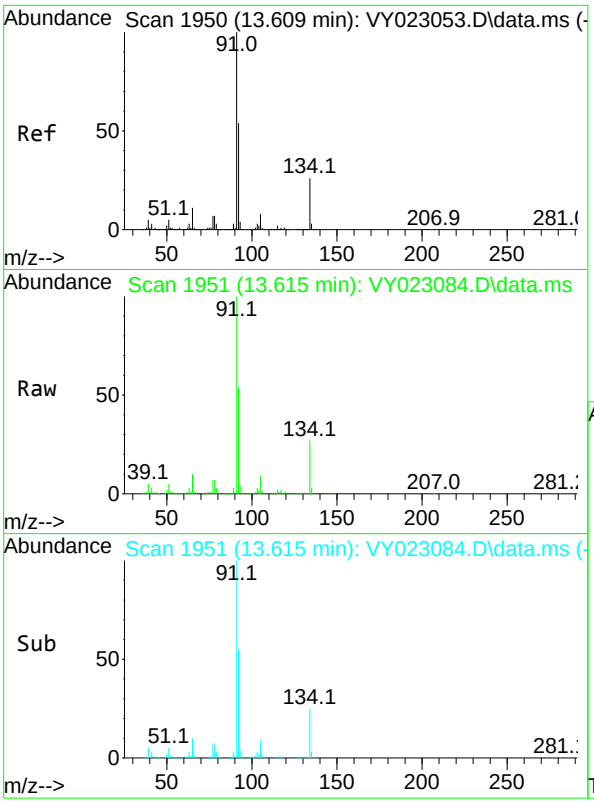


#88
1,4-Dichlorobenzene
Concen: 55.125 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 526660

Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.1	57.1
148	63.6	31.6	94.7



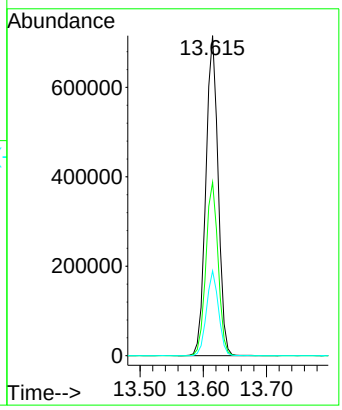


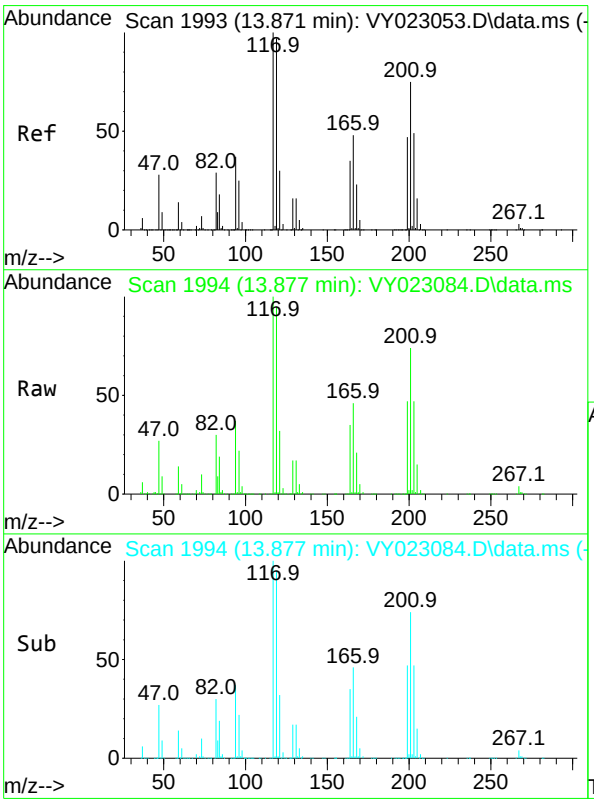
#89
n-Butylbenzene
Concen: 57.904 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 968977

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.9	80.7
134	25.8	13.2	39.5

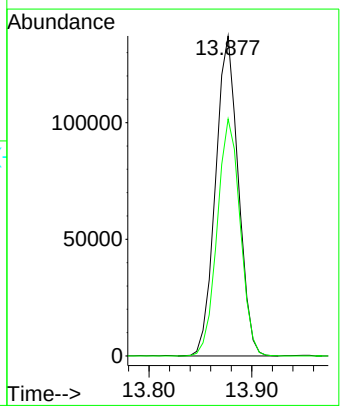


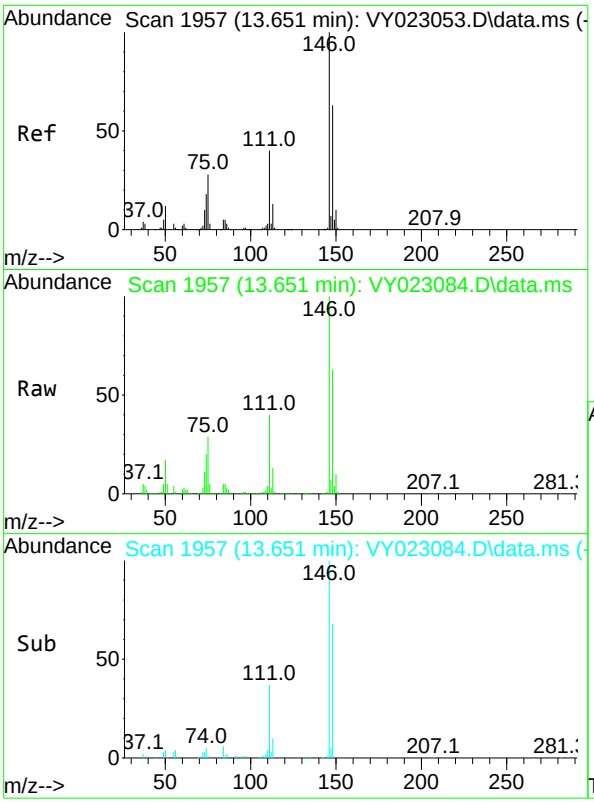


#90
Hexachloroethane
Concen: 56.482 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 210671

Ion	Ratio	Lower	Upper
117	100		
201	74.8	38.4	115.1



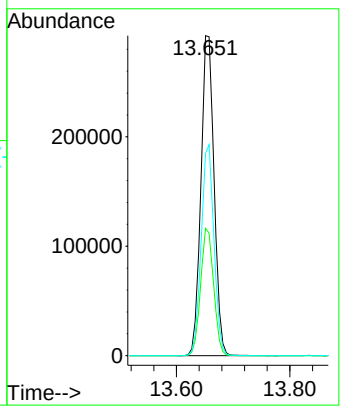


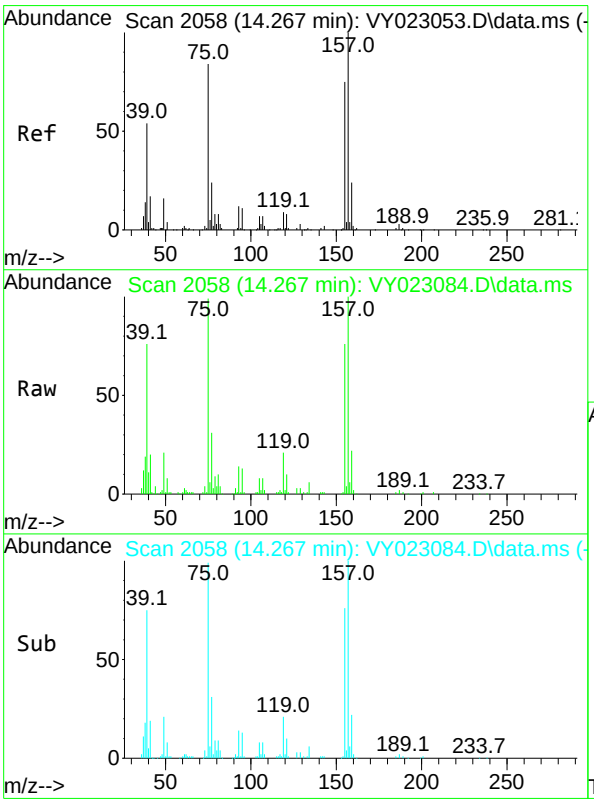
#91
1,2-Dichlorobenzene
Concen: 55.616 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 469762

Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.3	60.8
148	64.0	32.2	96.6

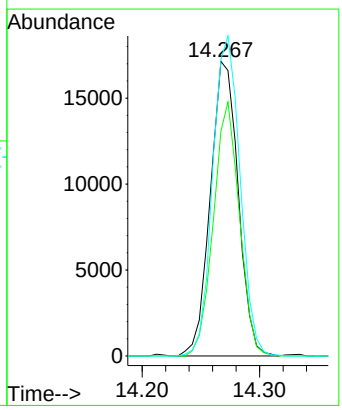


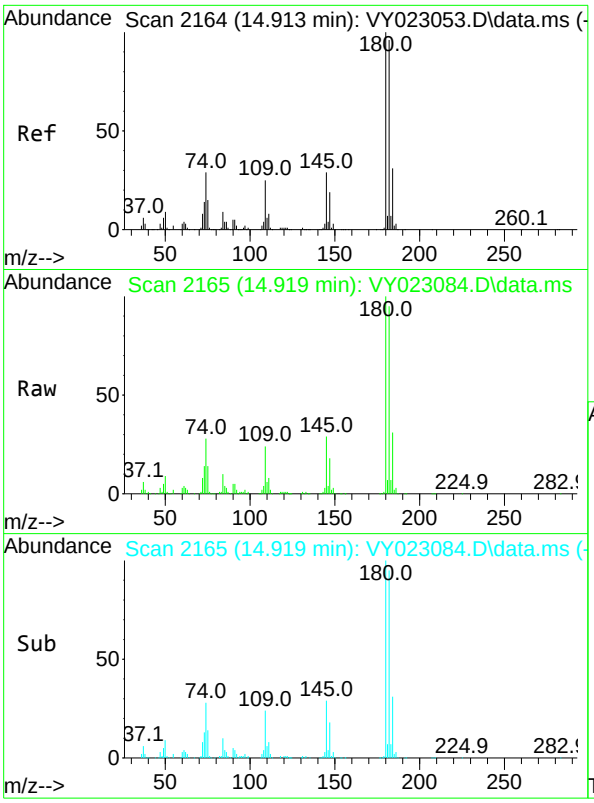


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.839 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 28212

Ion	Ratio	Lower	Upper
75	100		
155	80.2	43.9	131.6
157	106.5	57.2	171.6



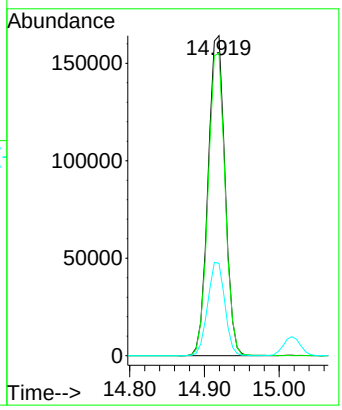


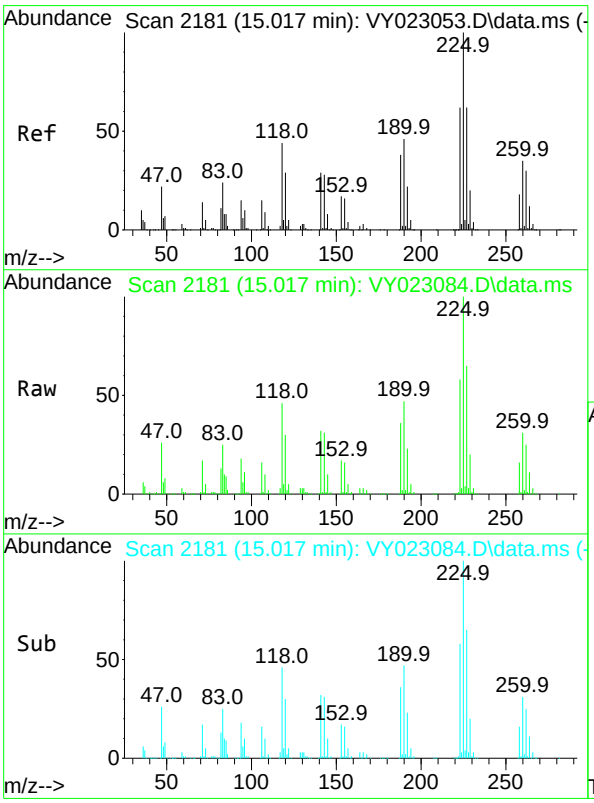
#93
1,2,4-Trichlorobenzene
Concen: 51.769 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 258580

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.8	140.4
145	29.5	14.4	43.4

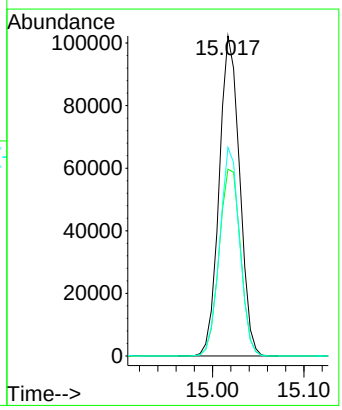


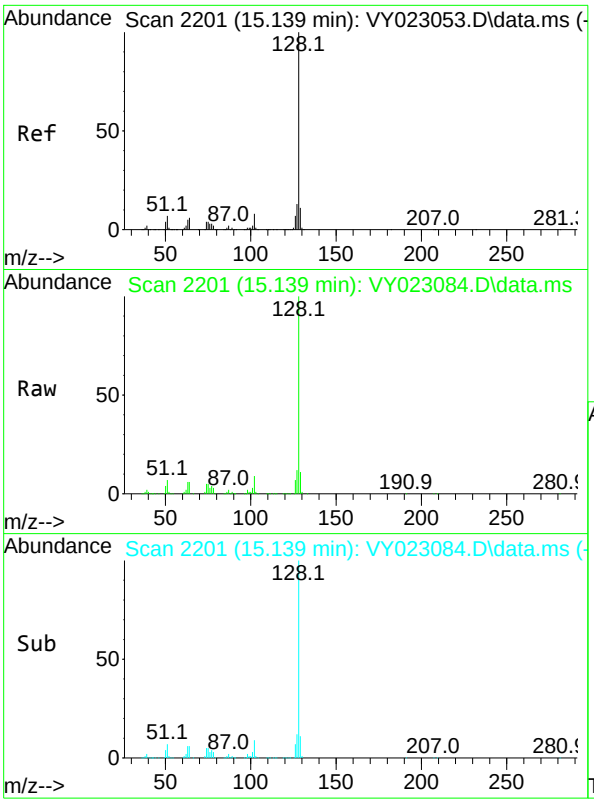


#94
Hexachlorobutadiene
Concen: 54.099 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:225 Resp: 158788

Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.3	93.8
227	63.5	31.5	94.5



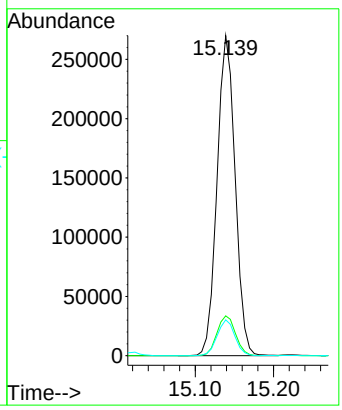


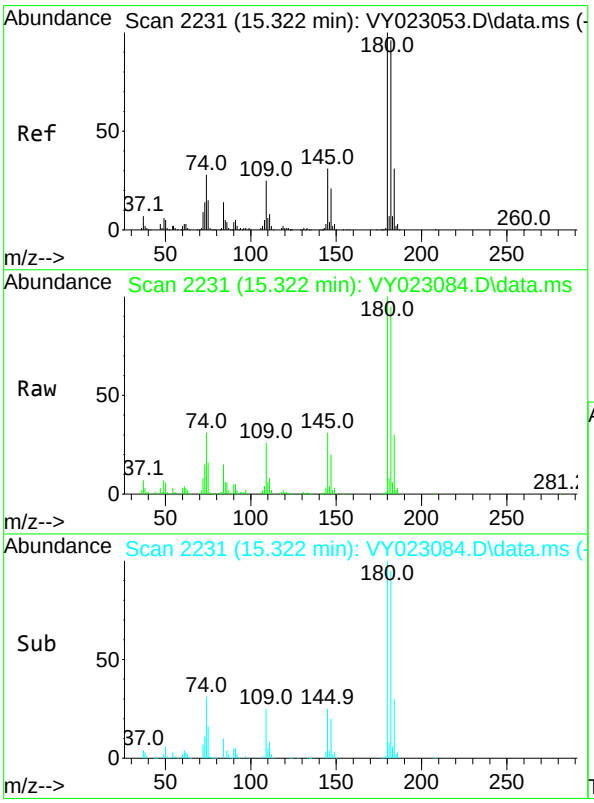
#95
Naphthalene
Concen: 50.929 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 433775

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	11.0	9.0	13.4

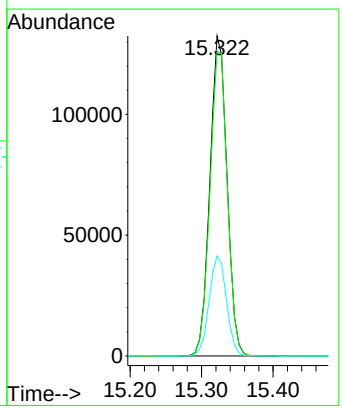




#96
1,2,3-Trichlorobenzene
Concen: 51.145 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:180 Resp: 220135

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.9	143.7
145	31.7	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Quant Time: Aug 14 14:47:08 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	455827	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	734618	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	641778	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	309825	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	218317	50.253	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.500%			
35) Dibromofluoromethane	7.634	113	220130	50.078	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.160%			
50) Toluene-d8	10.103	98	873299	50.855	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.720%			
62) 4-Bromofluorobenzene	12.401	95	263190	47.657	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	74341	19.980	ug/l	100
3) Chloromethane	2.068	50	139194	23.098	ug/l	97
4) Vinyl Chloride	2.202	62	172200	23.116	ug/l	97
5) Bromomethane	2.586	94	129347	23.250	ug/l	97
6) Chloroethane	2.726	64	116610	23.545	ug/l	96
7) Trichlorofluoromethane	3.049	101	197599	21.815	ug/l	99
8) Diethyl Ether	3.452	74	42819	17.867	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.812	101	93242	20.865	ug/l	98
10) Methyl Iodide	3.994	142	103105	21.381	ug/l	99
11) Tert butyl alcohol	4.860	59	23075	77.519	ug/l	100
12) 1,1-Dichloroethene	3.781	96	87863	20.003	ug/l	98
13) Acrolein	3.647	56	34035	78.072	ug/l	97
14) Allyl chloride	4.372	41	125844	19.470	ug/l	97
15) Acrylonitrile	5.055	53	87301	89.605	ug/l	98
16) Acetone	3.866	43	88645	94.185	ug/l	94
17) Carbon Disulfide	4.098	76	295393	20.624	ug/l	99
18) Methyl Acetate	4.385	43	49793	17.778	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	204114	17.932	ug/l	99
20) Methylene Chloride	4.610	84	107429	20.355	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	99704	20.198	ug/l	98
22) Diisopropyl ether	6.012	45	279897	19.929	ug/l	96
23) Vinyl Acetate	5.957	43	703379	90.570	ug/l	100
24) 1,1-Dichloroethane	5.909	63	177456	20.666	ug/l	100
25) 2-Butanone	6.890	43	113667	88.799	ug/l	95
26) 2,2-Dichloropropane	6.878	77	150616	20.328	ug/l	100
27) cis-1,2-Dichloroethene	6.884	96	114706	20.100	ug/l	99
28) Bromochloromethane	7.244	49	69276	20.335	ug/l	96
29) Tetrahydrofuran	7.262	42	67731	85.363	ug/l	95
30) Chloroform	7.415	83	182352	20.591	ug/l	96
31) Cyclohexane	7.695	56	156917	19.392	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	161426	20.543	ug/l	98
36) 1,1-Dichloropropene	7.829	75	131067	20.063	ug/l	99
37) Ethyl Acetate	6.982	43	45793	16.687	ug/l	98
38) Carbon Tetrachloride	7.817	117	142349	20.062	ug/l	98
39) Methylcyclohexane	9.109	83	160783	18.690	ug/l	97
40) Benzene	8.073	78	408860	20.306	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Quant Time: Aug 14 14:47:08 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	7.213	41	23134	14.607 ug/l #	86
42) 1,2-Dichloroethane	8.152	62	104577	19.970 ug/l	98
43) Isopropyl Acetate	8.195	43	95745	17.262 ug/l	98
44) Trichloroethene	8.859	130	106605	20.488 ug/l	98
45) 1,2-Dichloropropane	9.140	63	95447	20.603 ug/l	99
46) Dibromomethane	9.225	93	51967	19.543 ug/l	97
47) Bromodichloromethane	9.420	83	137131	20.042 ug/l	98
48) Methyl methacrylate	9.219	41	45987	17.327 ug/l	98
49) 1,4-Dioxane	9.225	88	10785	345.913 ug/l #	94
51) 4-Methyl-2-Pentanone	9.993	43	238881	83.495 ug/l	97
52) Toluene	10.164	92	252944	19.780 ug/l	97
53) t-1,3-Dichloropropene	10.390	75	114364	18.458 ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	141980	19.379 ug/l	99
55) 1,1,2-Trichloroethane	10.566	97	66658	18.734 ug/l	97
56) Ethyl methacrylate	10.438	69	75122	16.500 ug/l	98
57) 1,3-Dichloropropane	10.713	76	114859	19.034 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	187201	87.167 ug/l	100
59) 2-Hexanone	10.755	43	159619	81.934 ug/l	98
60) Dibromochloromethane	10.908	129	88354	18.819 ug/l	100
61) 1,2-Dibromoethane	11.011	107	61746	18.463 ug/l	100
64) Tetrachloroethene	10.646	164	123429	21.538 ug/l	98
65) Chlorobenzene	11.438	112	272937	19.716 ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.511	131	93115	19.819 ug/l	98
67) Ethyl Benzene	11.517	91	461952	19.391 ug/l	100
68) m/p-Xylenes	11.627	106	362129	38.921 ug/l	98
69) o-Xylene	11.950	106	165485	18.990 ug/l	97
70) Styrene	11.963	104	273749	19.209 ug/l	99
71) Bromoform	12.127	173	49863	18.159 ug/l #	100
73) Isopropylbenzene	12.249	105	423027	19.345 ug/l	99
74) N-amyl acetate	12.066	43	78613	16.952 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.499	83	64150	17.181 ug/l	94
76) 1,2,3-Trichloropropane	12.554	75	91421	30.574 ug/l #	100
77) Bromobenzene	12.529	156	100851	19.332 ug/l	98
78) n-propylbenzene	12.590	91	520711	20.001 ug/l	100
79) 2-Chlorotoluene	12.676	91	297769	19.962 ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	348710	19.731 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.298	75	21491	17.398 ug/l	94
82) 4-Chlorotoluene	12.773	91	312655	20.205 ug/l	98
83) tert-Butylbenzene	12.993	119	303222	18.997 ug/l	100
84) 1,2,4-Trimethylbenzene	13.036	105	351003	19.952 ug/l	99
85) sec-Butylbenzene	13.170	105	458024	19.534 ug/l	99
86) p-Isopropyltoluene	13.285	119	374466	19.240 ug/l	99
87) 1,3-Dichlorobenzene	13.279	146	200869	19.525 ug/l	99
88) 1,4-Dichlorobenzene	13.359	146	200293	19.626 ug/l	98
89) n-Butylbenzene	13.615	91	344791	19.289 ug/l	98
90) Hexachloroethane	13.877	117	80689	20.252 ug/l	97
91) 1,2-Dichlorobenzene	13.651	146	172852	19.158 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	9872	16.982 ug/l	95
93) 1,2,4-Trichlorobenzene	14.913	180	93915	17.602 ug/l	99
94) Hexachlorobutadiene	15.017	225	58299	18.595 ug/l	98
95) Naphthalene	15.139	128	142271	15.638 ug/l	99
96) 1,2,3-Trichlorobenzene	15.322	180	79576	17.308 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Quant Time: Aug 14 14:47:08 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)

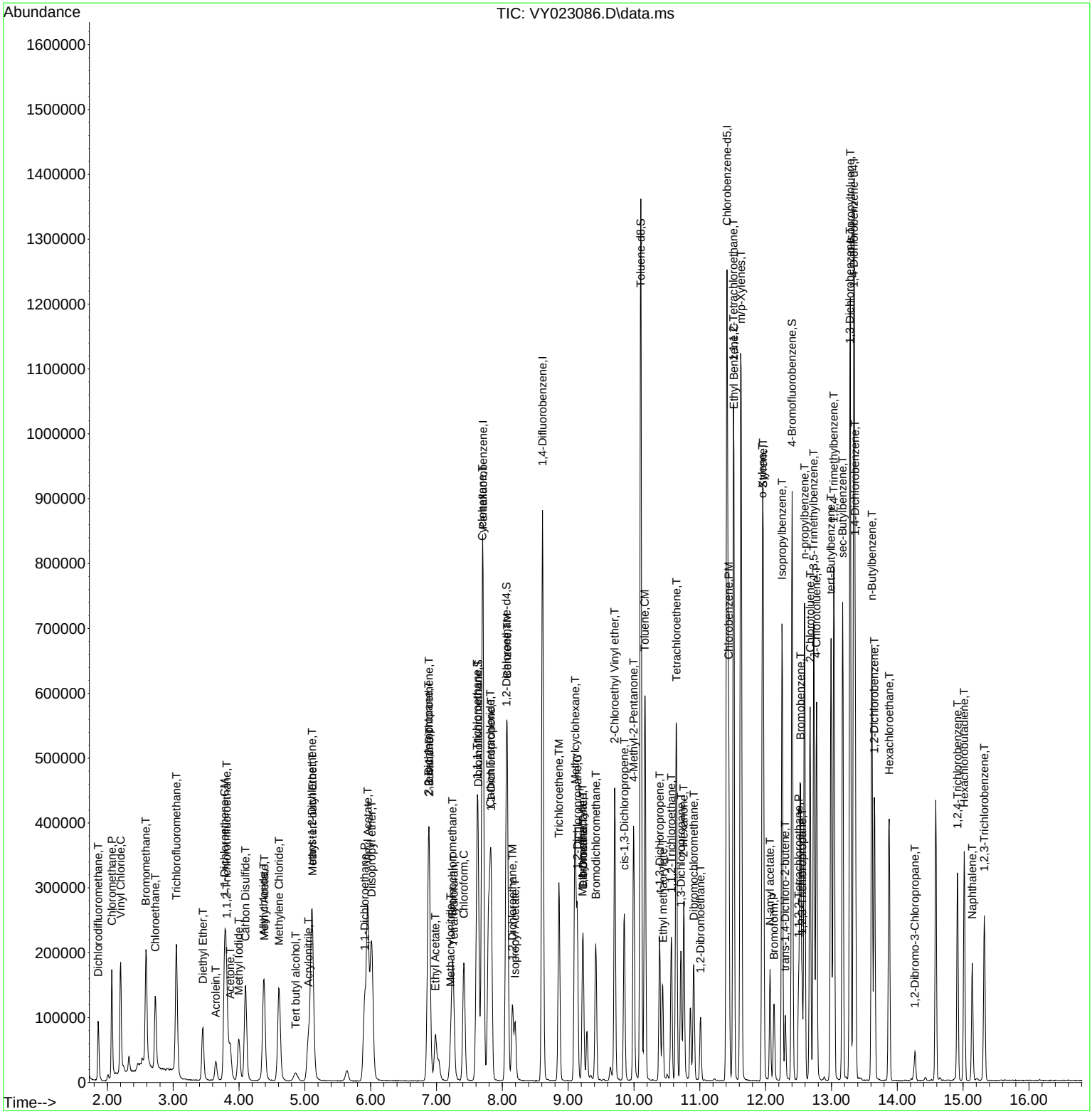
(#) = qualifier out of range (m) = manual integration (+) = signals summed

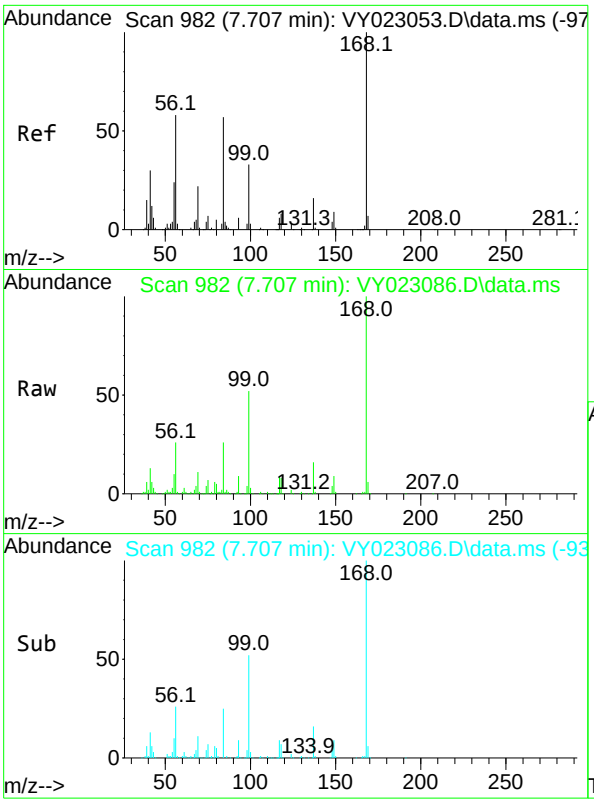
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Quant Time: Aug 14 14:47:08 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



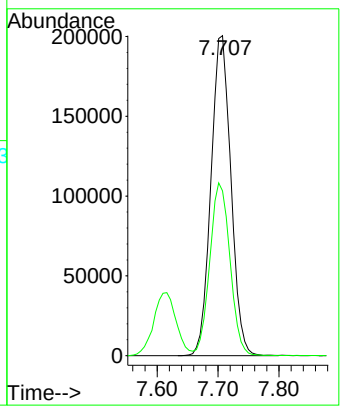


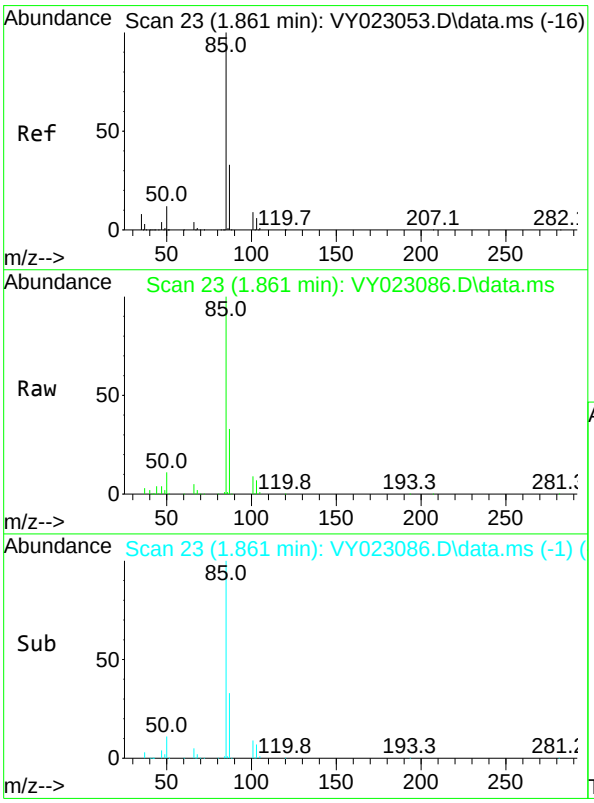
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:168 Resp: 455827

Ion	Ratio	Lower	Upper
168	100		
99	51.4	42.8	64.2

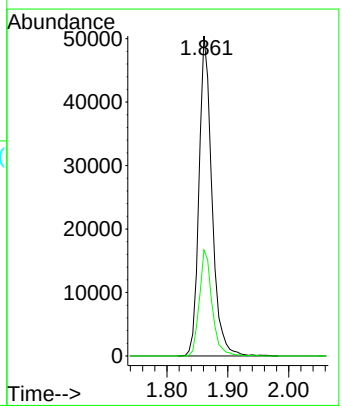


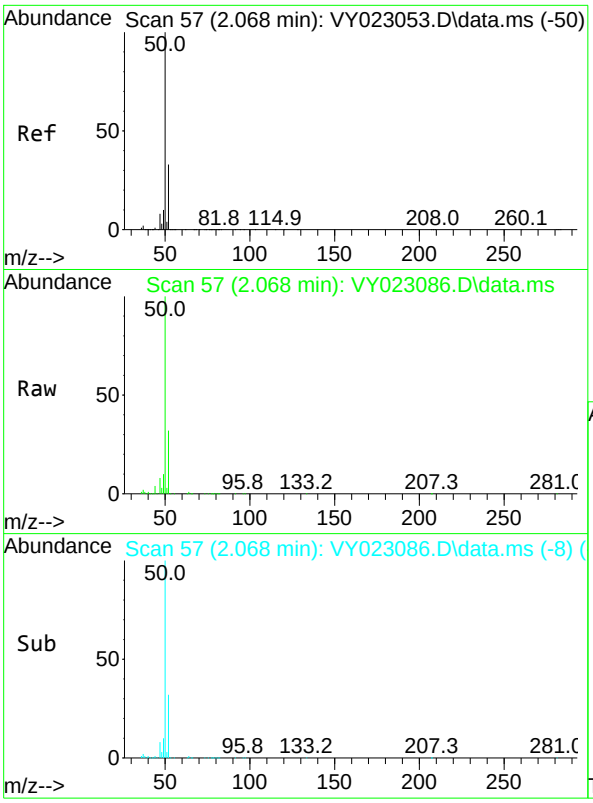


#2
Dichlorodifluoromethane
Concen: 19.980 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 85 Resp: 74341

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.6	49.8



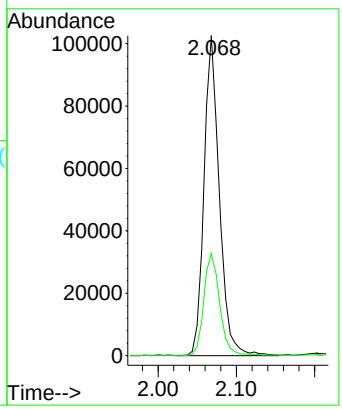


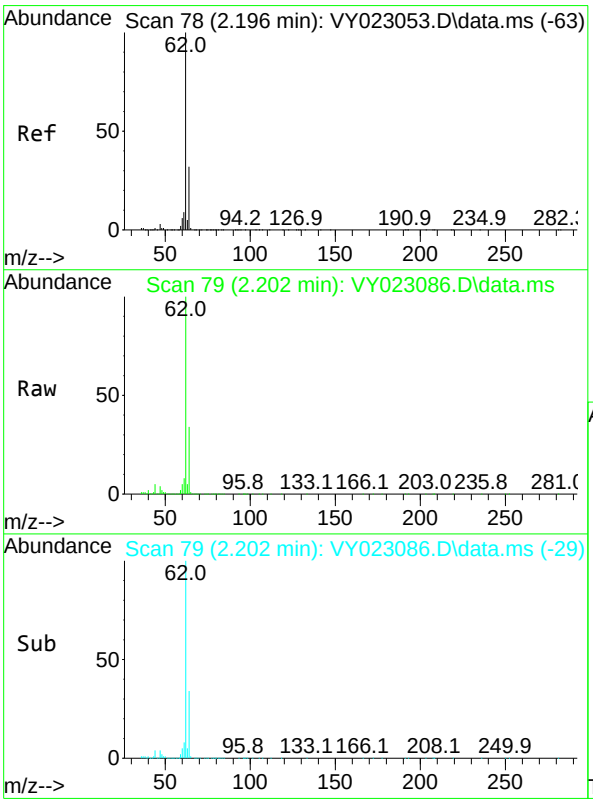
#3
Chloromethane
Concen: 23.098 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 50 Resp: 139194

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.7	40.1

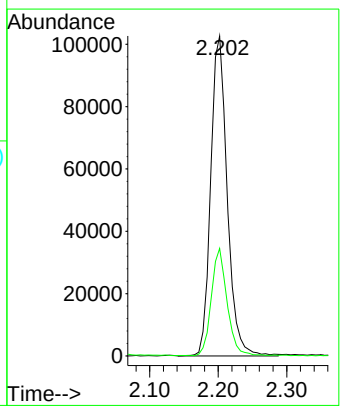


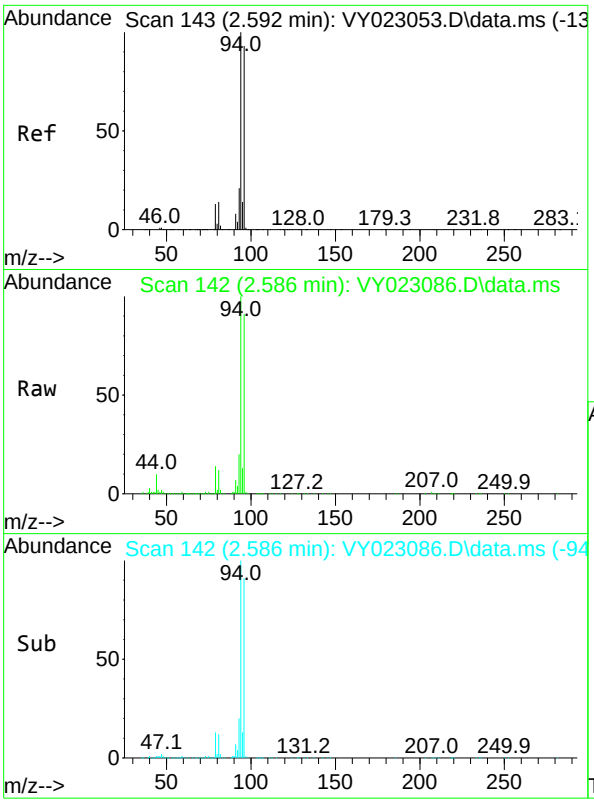


#4
Vinyl Chloride
Concen: 23.116 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 172200

Ion	Ratio	Lower	Upper
62	100		
64	33.4	25.4	38.0



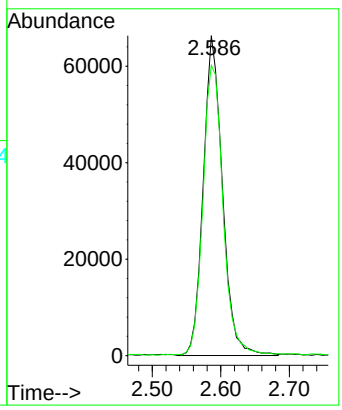


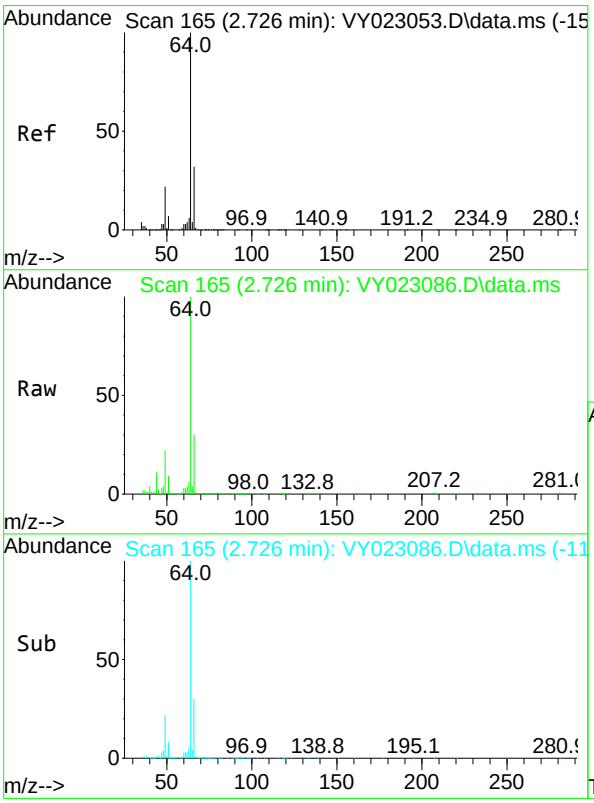
#5
Bromomethane
Concen: 23.250 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 94 Resp: 129347

Ion	Ratio	Lower	Upper
94	100		
96	90.4	74.6	112.0

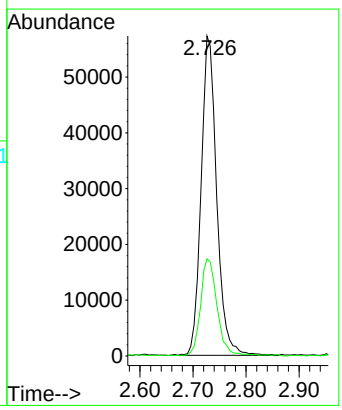


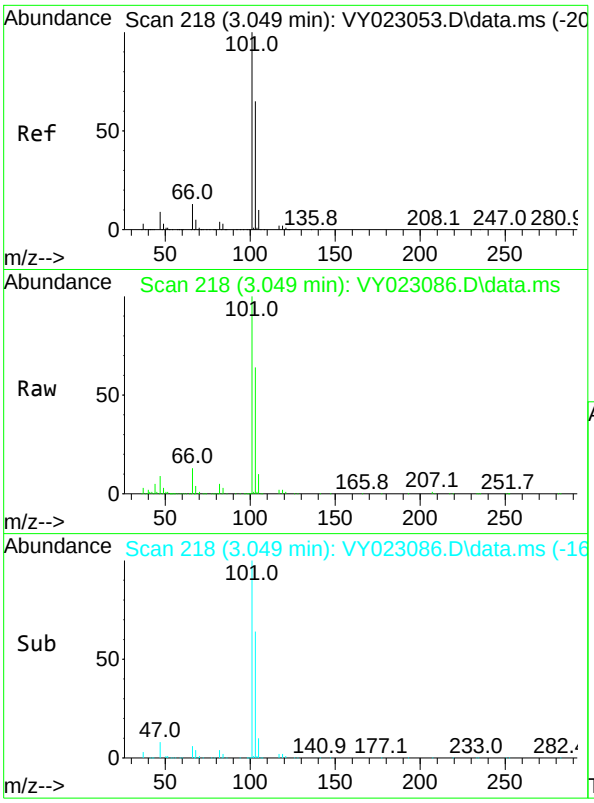


#6
Chloroethane
Concen: 23.545 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 64 Resp: 116610

Ion	Ratio	Lower	Upper
64	100		
66	30.2	25.8	38.6



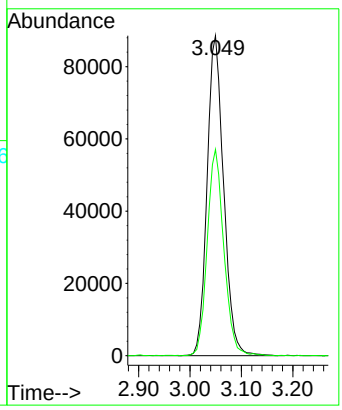


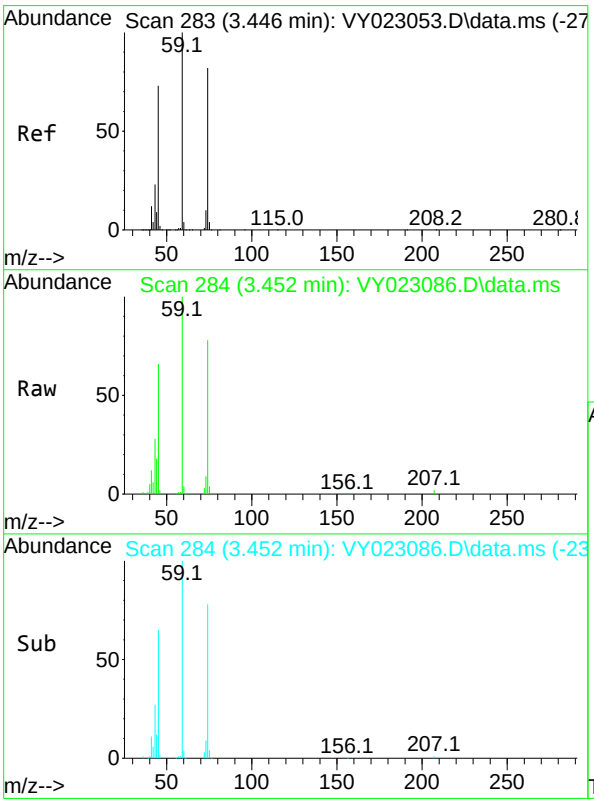
#7
Trichlorofluoromethane
Concen: 21.815 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:101 Resp: 197599

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.9	77.9

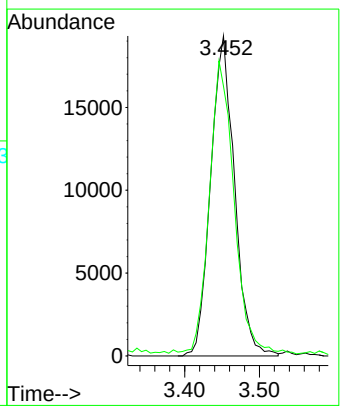


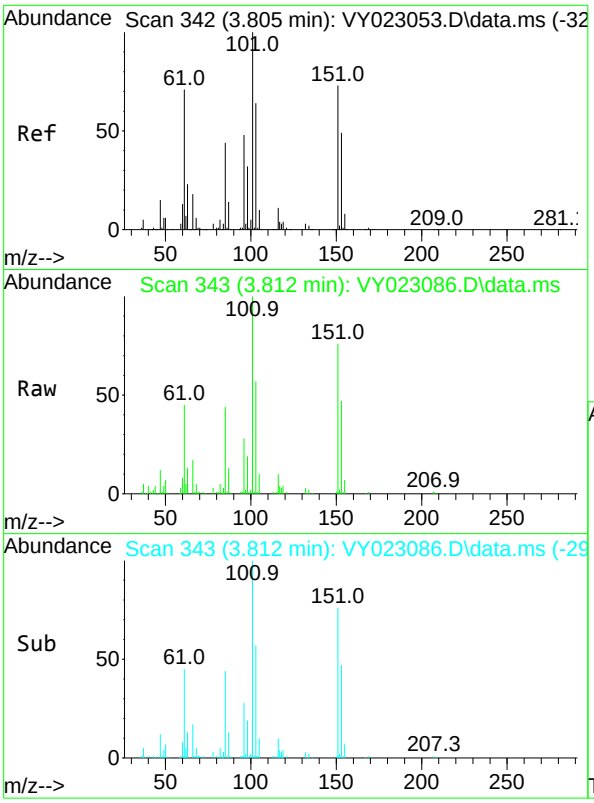


#8
Diethyl Ether
Concen: 17.867 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 74 Resp: 42819

Ion	Ratio	Lower	Upper
74	100		
45	94.9	44.4	133.2



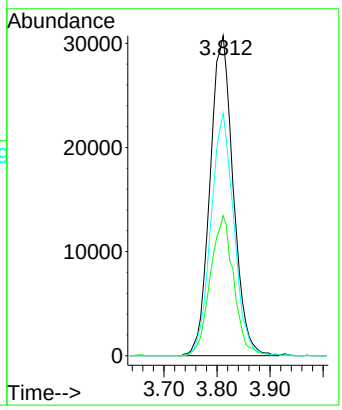


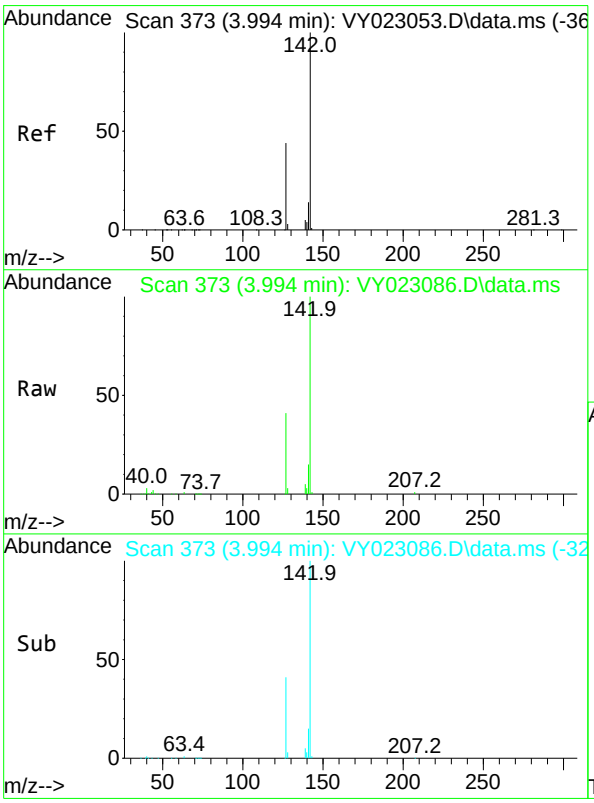
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.865 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:101 Resp: 93242

Ion	Ratio	Lower	Upper
101	100		
85	44.2	36.3	54.5
151	75.1	61.5	92.3

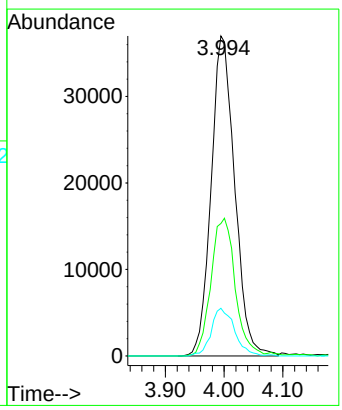


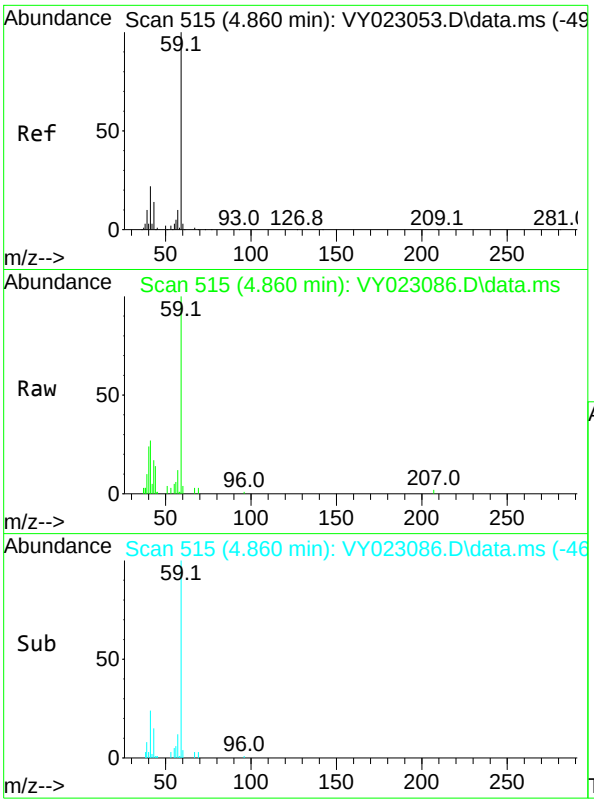


#10
Methyl Iodide
Concen: 21.381 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:142 Resp: 103105

Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.9	52.3
141	14.8	11.3	16.9



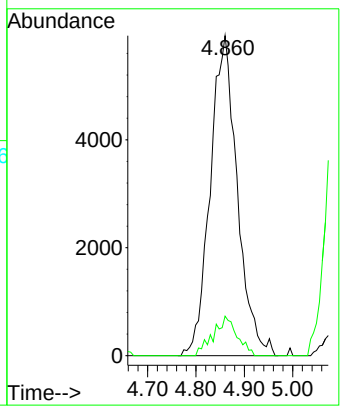


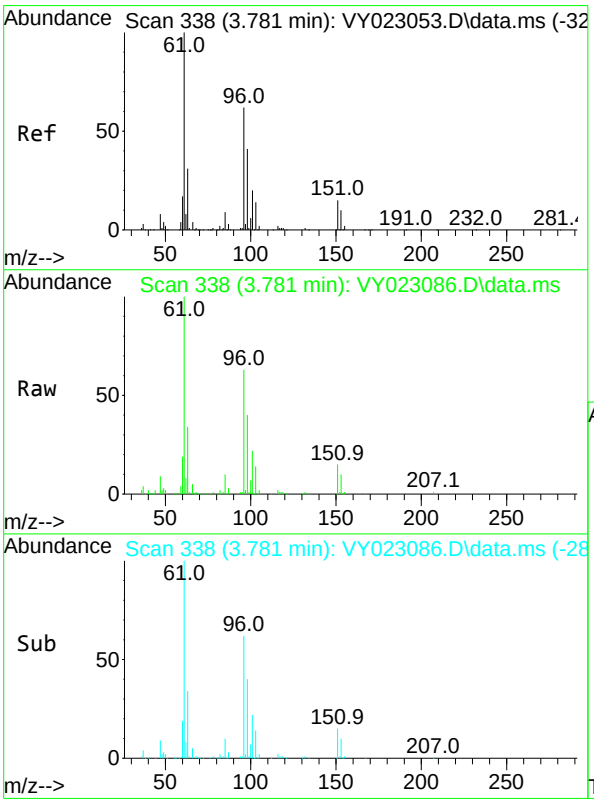
#11
Tert butyl alcohol
Concen: 77.519 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 59 Resp: 23075

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

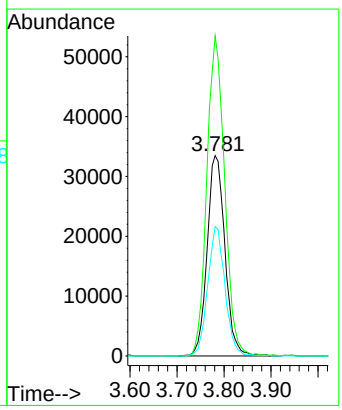


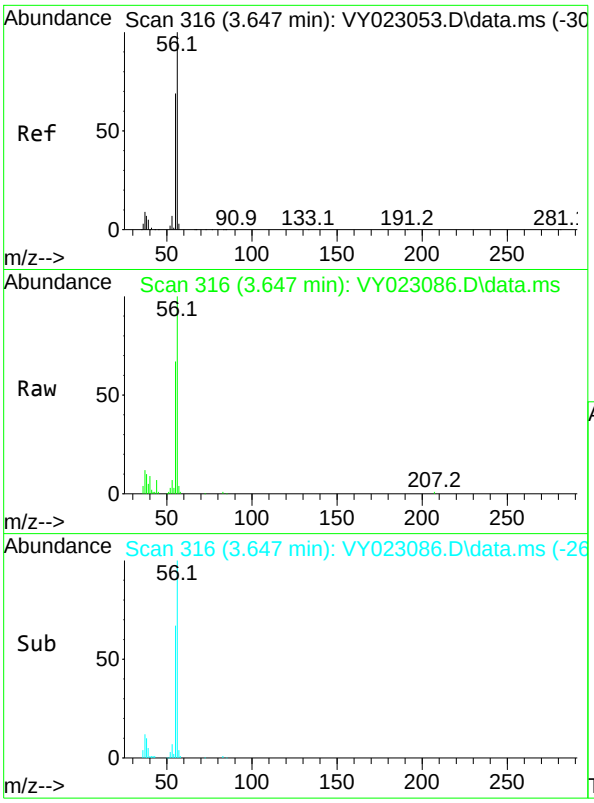


#12
1,1-Dichloroethene
Concen: 20.003 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 87863

Ion	Ratio	Lower	Upper
96	100		
61	159.8	129.4	194.2
98	64.5	52.8	79.2



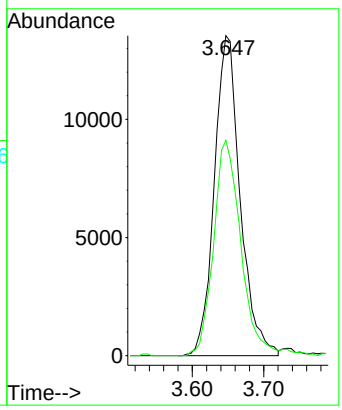


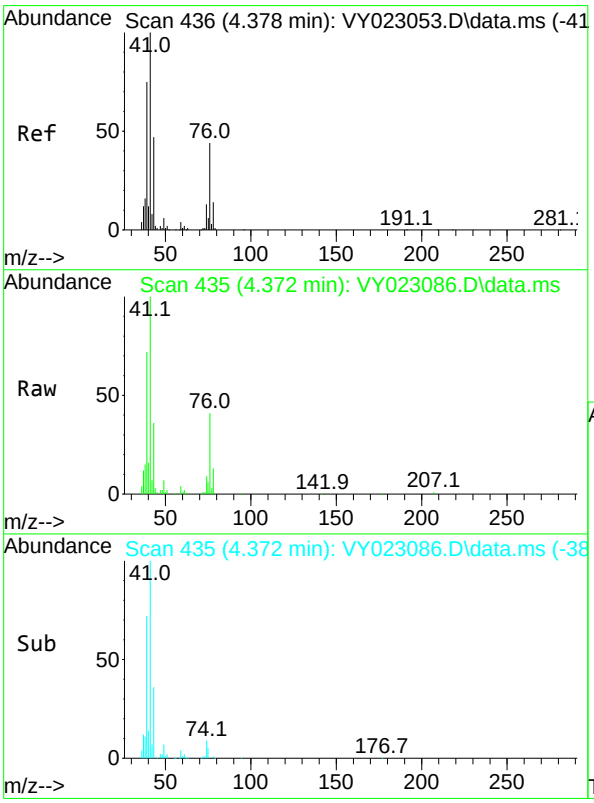
#13
Acrolein
Concen: 78.072 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 56 Resp: 34035

Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.2	82.8

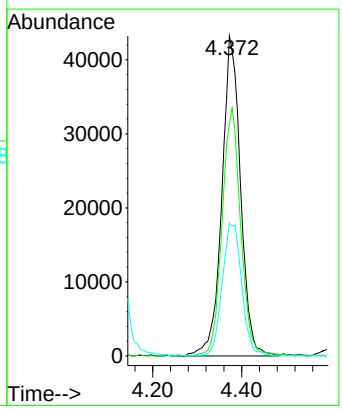


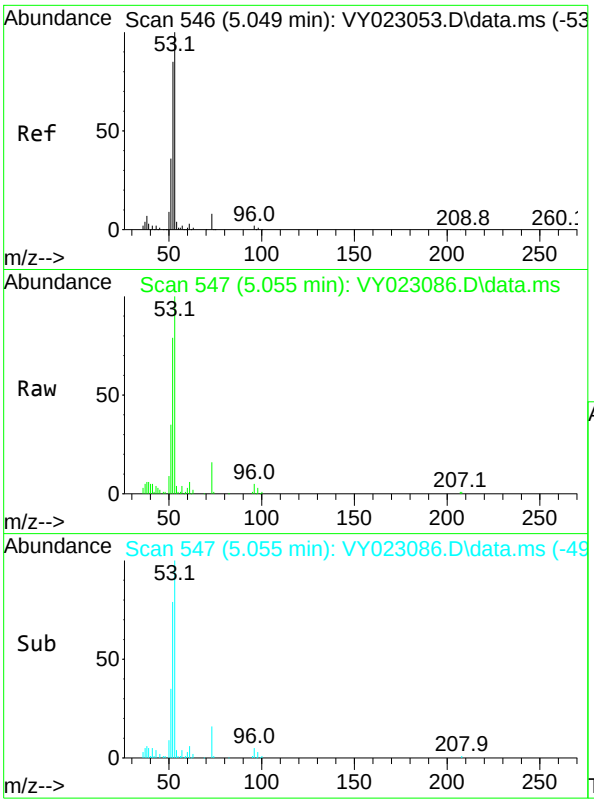


#14
Allyl chloride
Concen: 19.470 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 125844

Ion	Ratio	Lower	Upper
41	100		
39	77.3	59.8	89.6
76	43.1	33.7	50.5



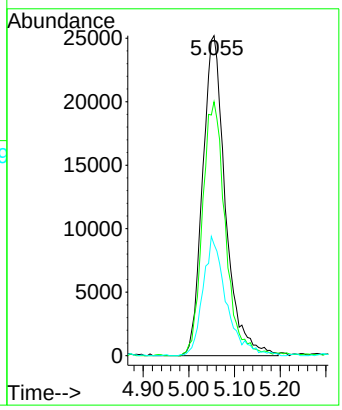


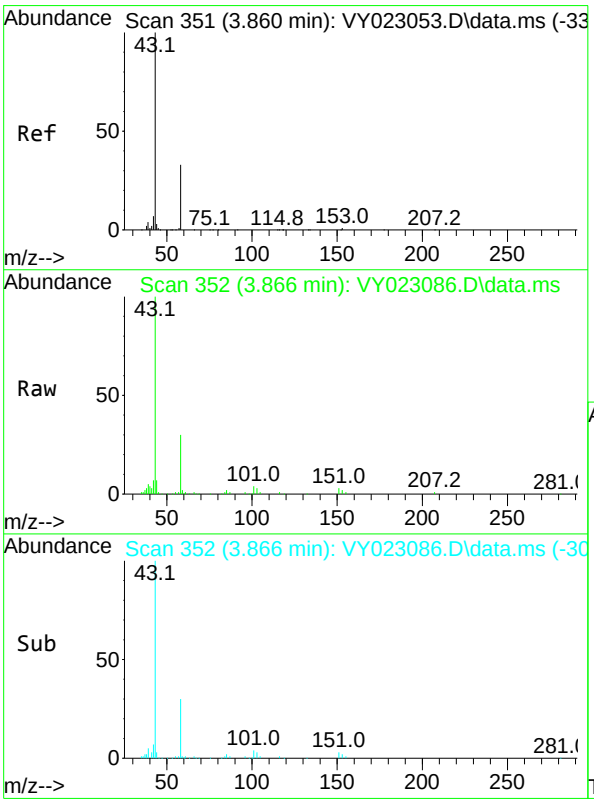
#15
Acrylonitrile
Concen: 89.605 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 53 Resp: 87301

Ion	Ratio	Lower	Upper
53	100		
52	79.5	65.3	97.9
51	38.2	29.5	44.3

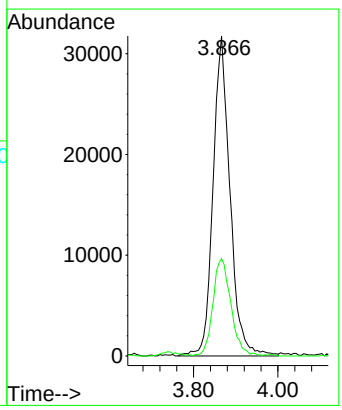


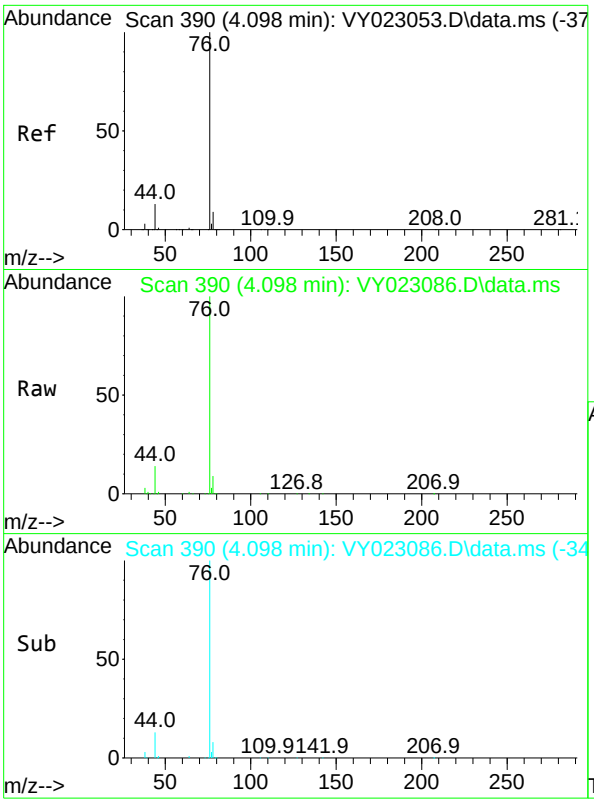


#16
Acetone
Concen: 94.185 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 88645

Ion	Ratio	Lower	Upper
43	100		
58	30.4	27.1	40.7



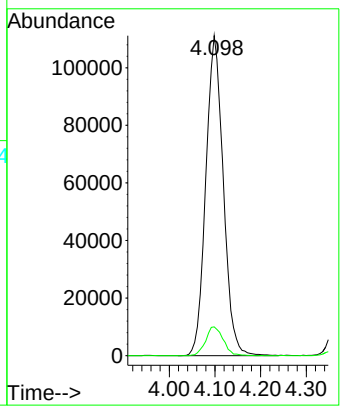


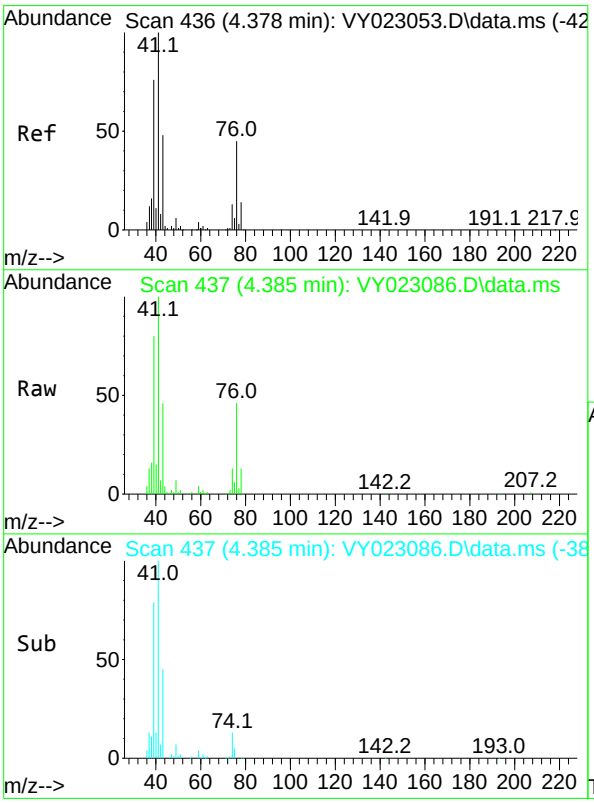
#17
Carbon Disulfide
Concen: 20.624 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 76 Resp: 295393

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.2

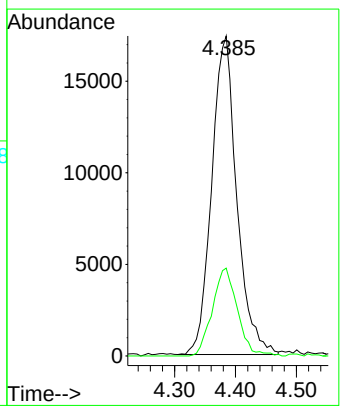


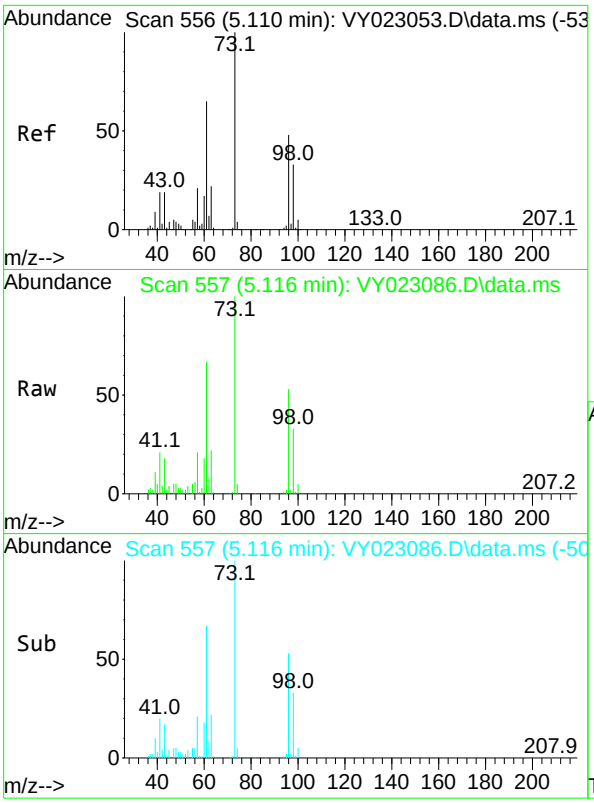


#18
Methyl Acetate
Concen: 17.778 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 49793

Ion	Ratio	Lower	Upper
43	100		
74	27.4	21.2	31.8



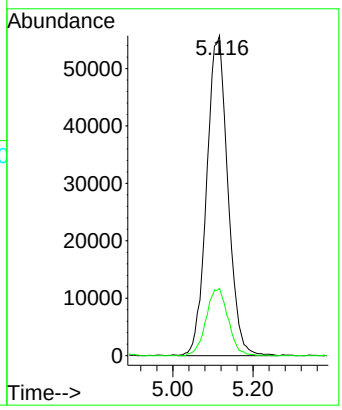


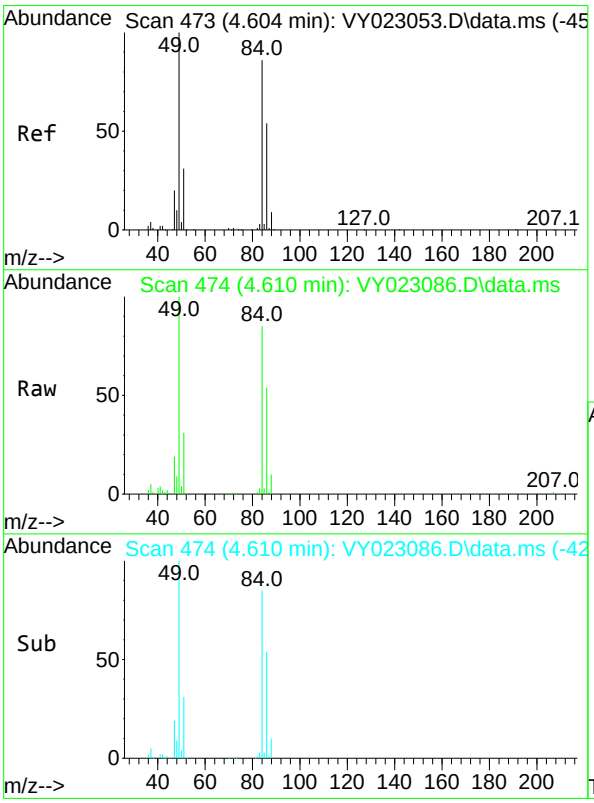
#19
Methyl tert-butyl Ether
Concen: 17.932 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 73 Resp: 204114

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.1	25.7

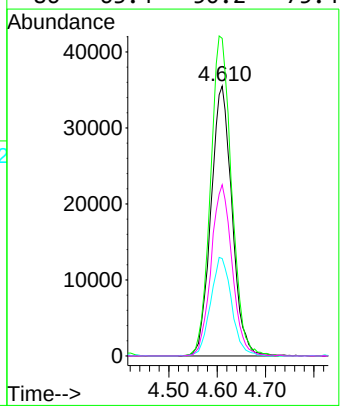


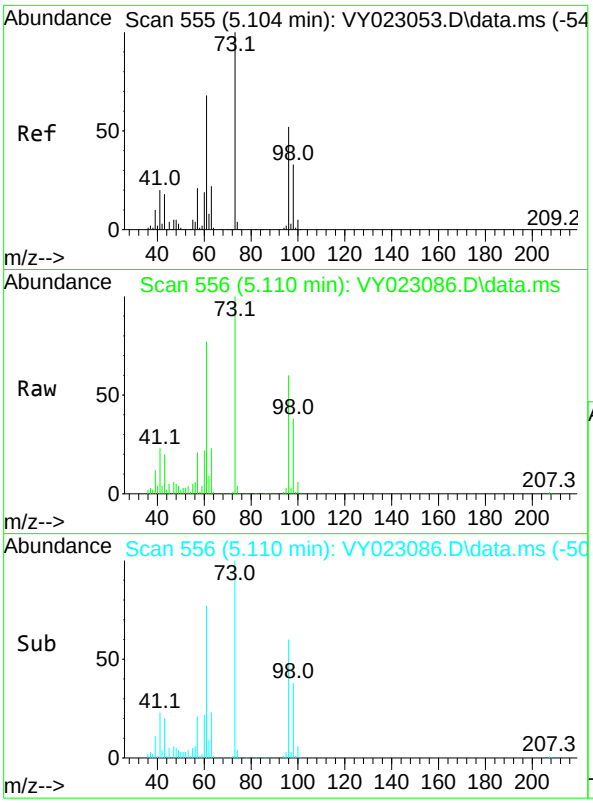


#20
Methylene Chloride
Concen: 20.355 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 84 Resp: 107429

Ion	Ratio	Lower	Upper
84	100		
49	117.7	93.0	139.6
51	36.1	29.0	43.4
86	63.4	50.2	75.4



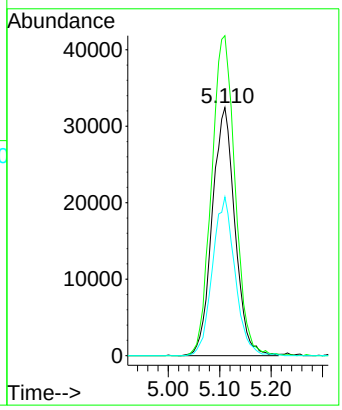


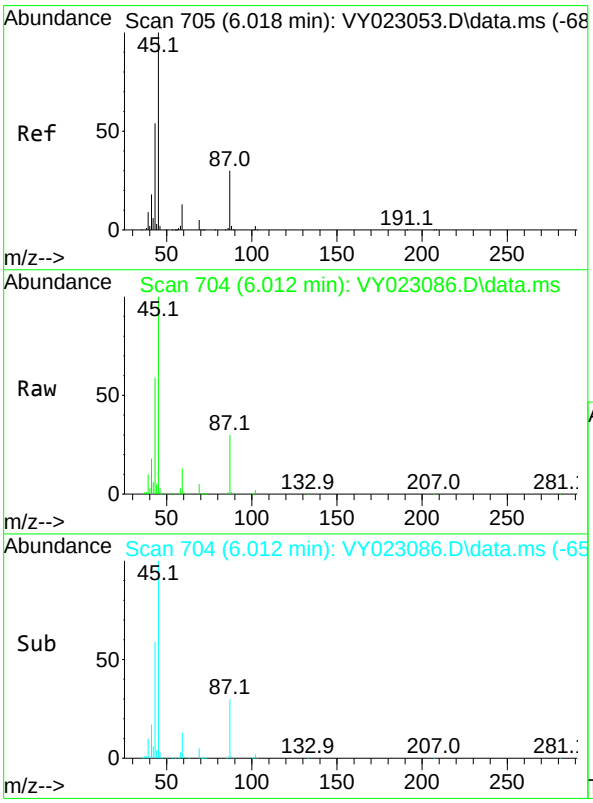
#21
trans-1,2-Dichloroethene
Concen: 20.198 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 96 Resp: 99704

Ion	Ratio	Lower	Upper
96	100		
61	128.9	104.8	157.2
98	64.0	50.1	75.1

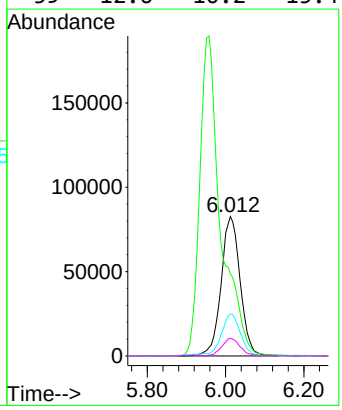


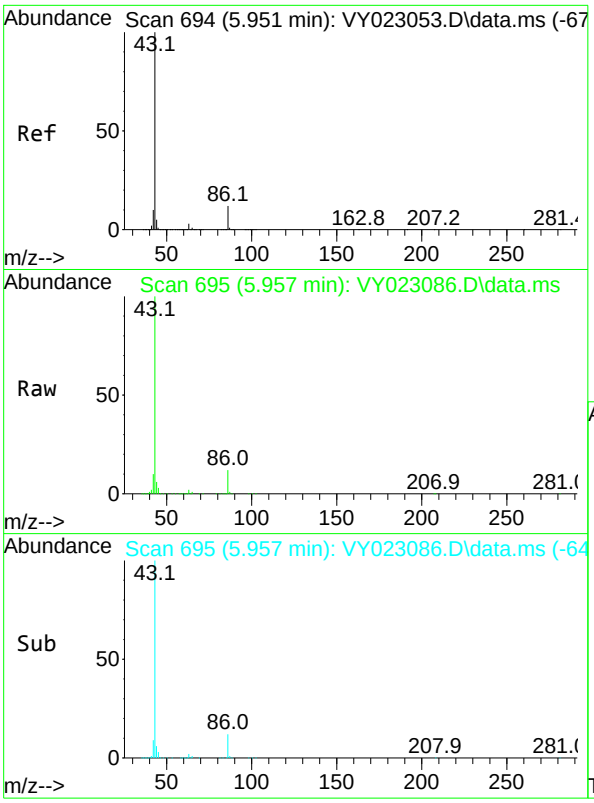


#22
Diisopropyl ether
Concen: 19.929 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 45 Resp: 279897

Ion	Ratio	Lower	Upper
45	100		
43	59.0	43.4	65.0
87	30.1	24.4	36.6
59	12.6	10.2	15.4



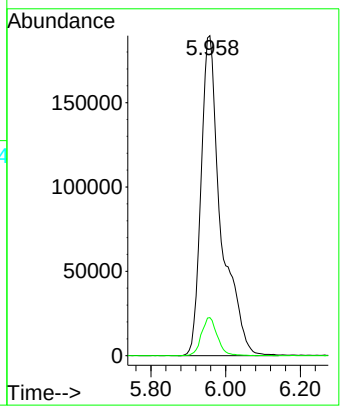


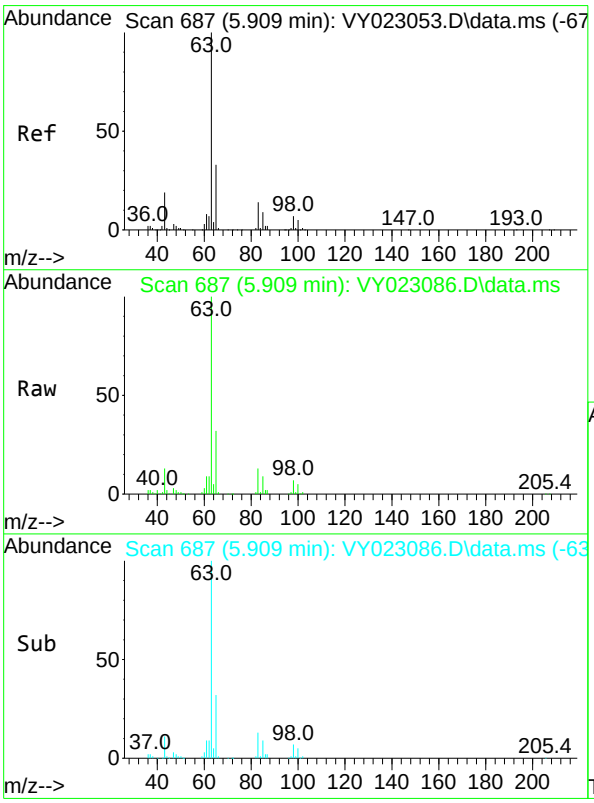
#23
Vinyl Acetate
Concen: 90.570 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 43 Resp: 703379

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4

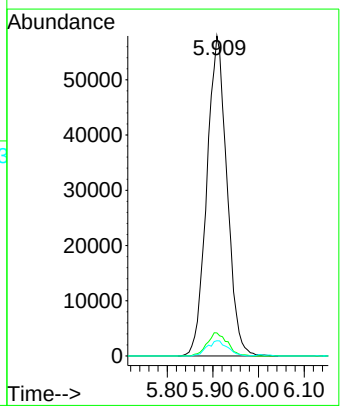


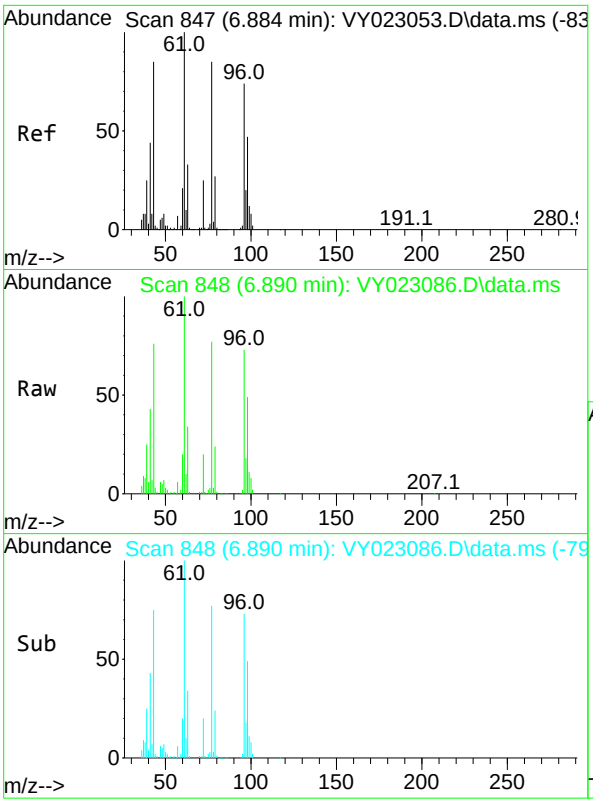


#24
1,1-Dichloroethane
Concen: 20.666 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 177456

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.5	10.6
100	4.7	2.4	7.1



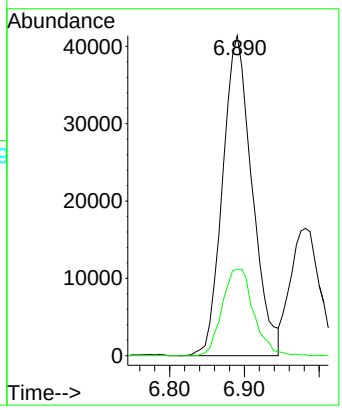


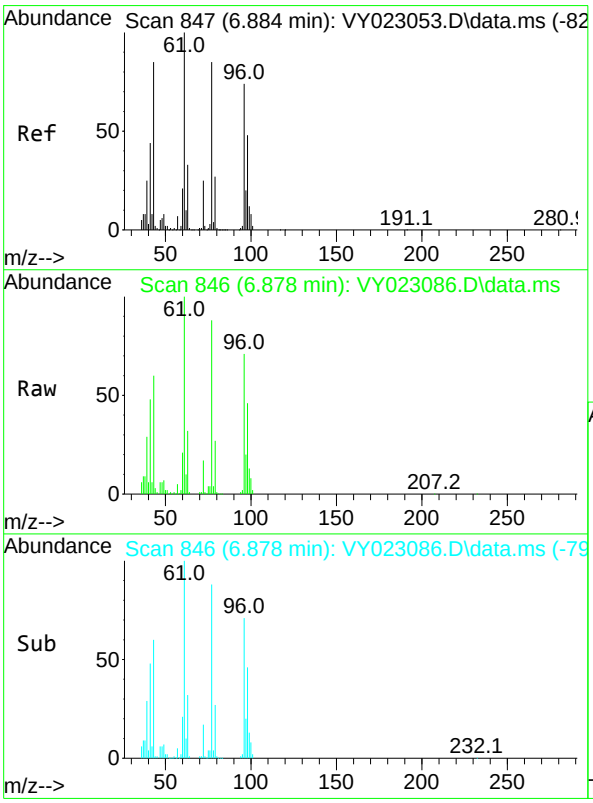
#25
2-Butanone
Concen: 88.799 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 43 Resp: 113667

Ion	Ratio	Lower	Upper
43	100		
72	26.8	23.5	35.3

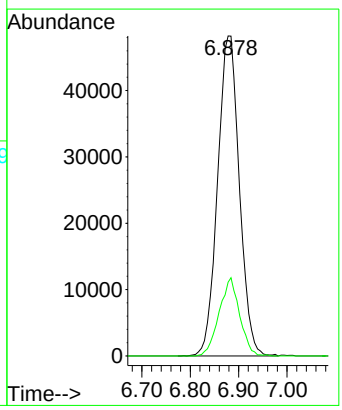


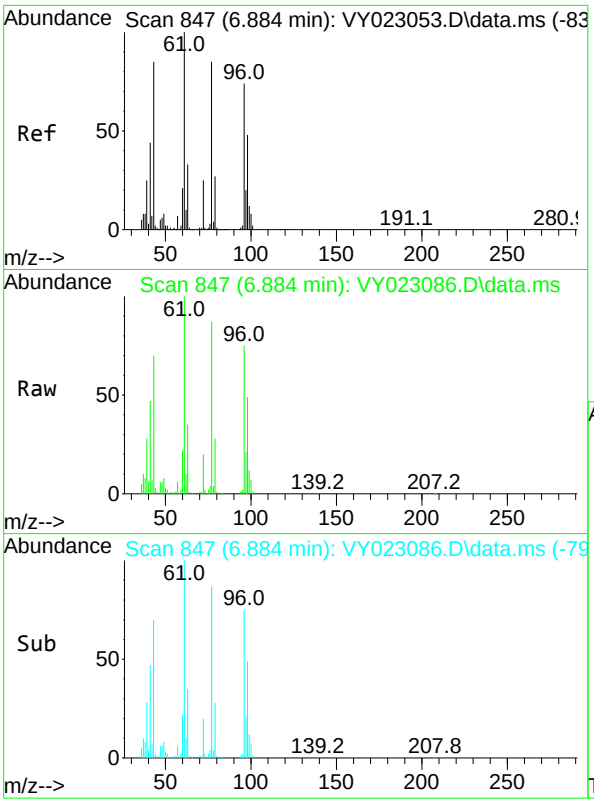


#26
2,2-Dichloropropane
Concen: 20.328 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 77 Resp: 150616

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.6	34.8



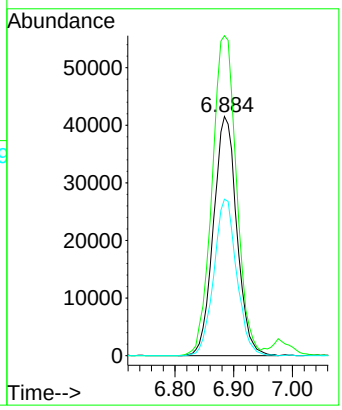


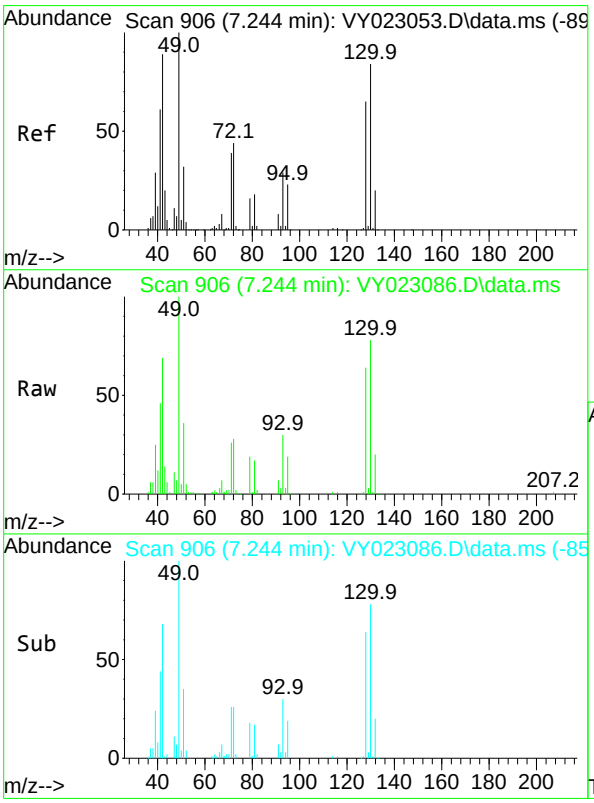
#27
cis-1,2-Dichloroethene
Concen: 20.100 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 96 Resp: 114706

Ion	Ratio	Lower	Upper
96	100		
61	139.9	0.0	278.6
98	64.0	0.0	130.4

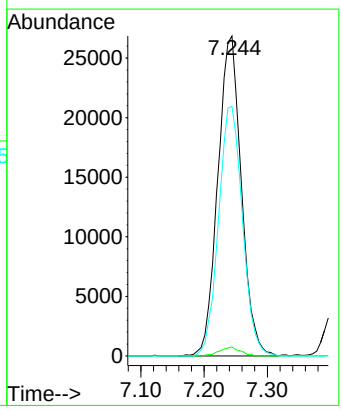


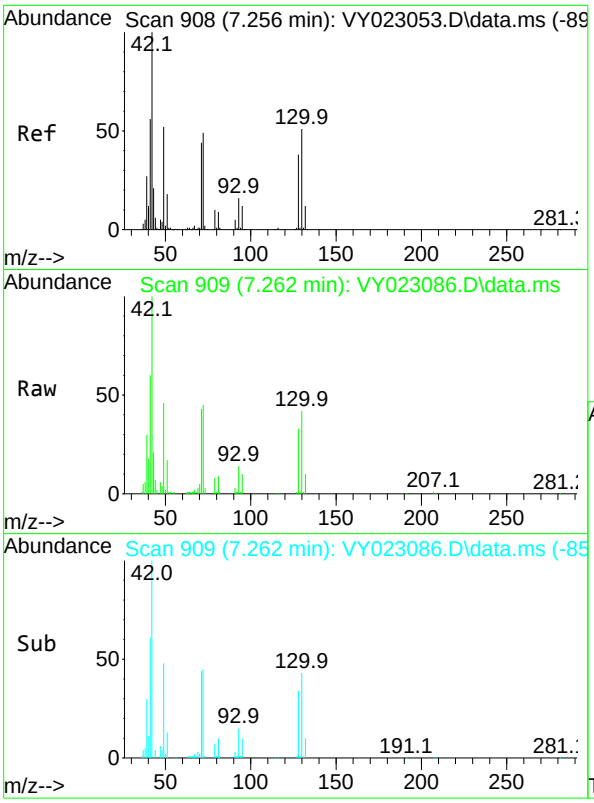


#28
Bromochloromethane
Concen: 20.335 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 49 Resp: 69276

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	79.4	66.4	99.6



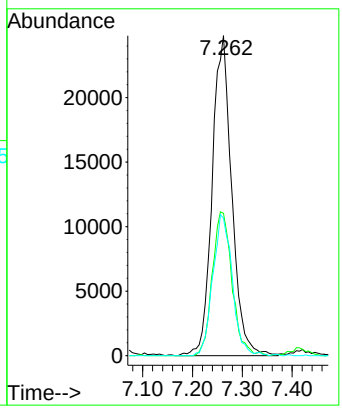


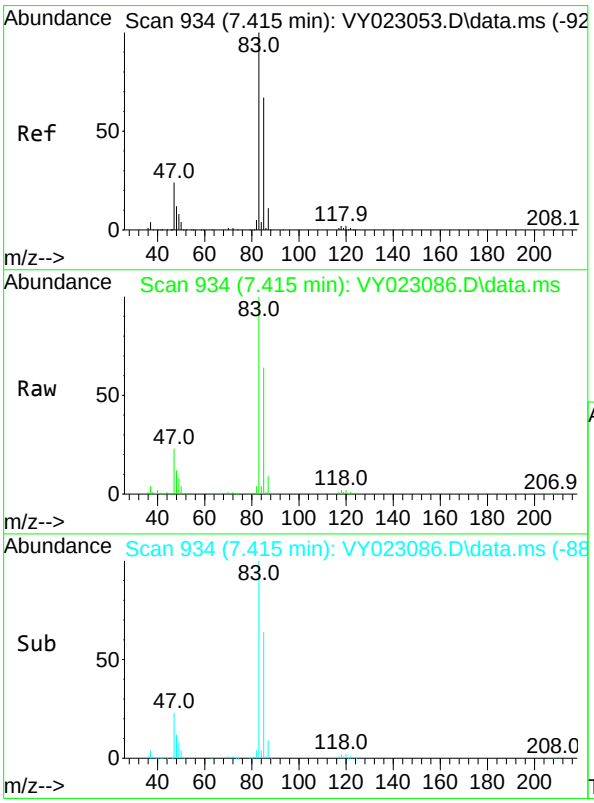
#29
Tetrahydrofuran
Concen: 85.363 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 42 Resp: 67731

Ion	Ratio	Lower	Upper
42	100		
72	45.3	39.4	59.2
71	43.6	36.5	54.7

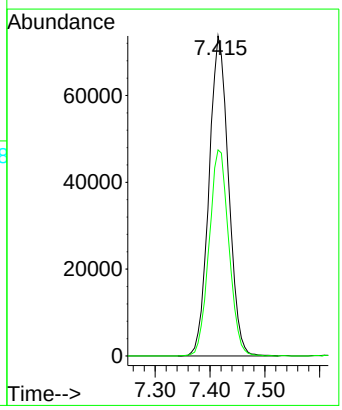


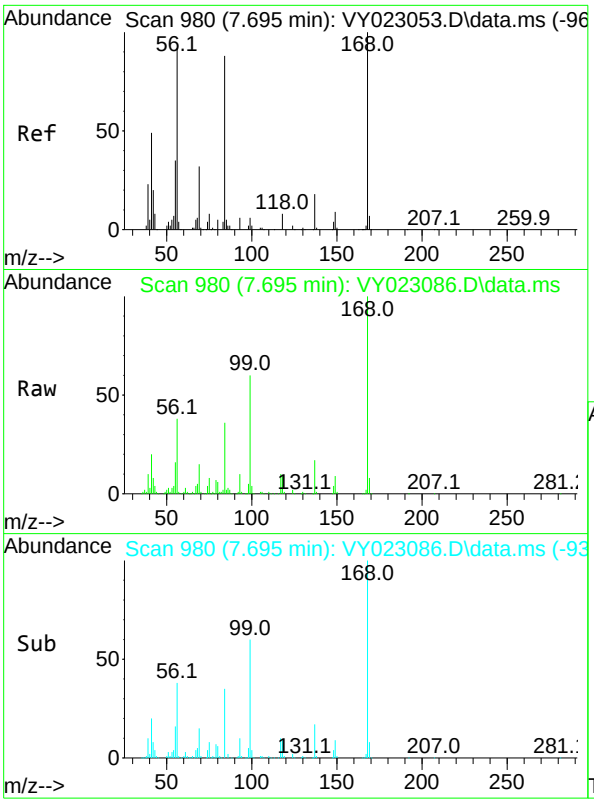


#30
Chloroform
Concen: 20.591 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 182352

Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.8	80.8



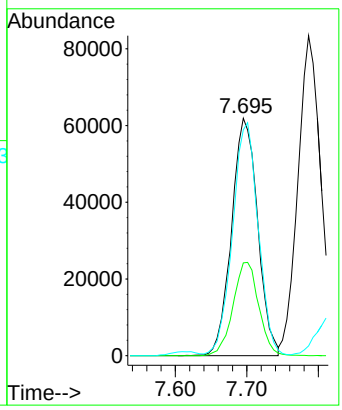


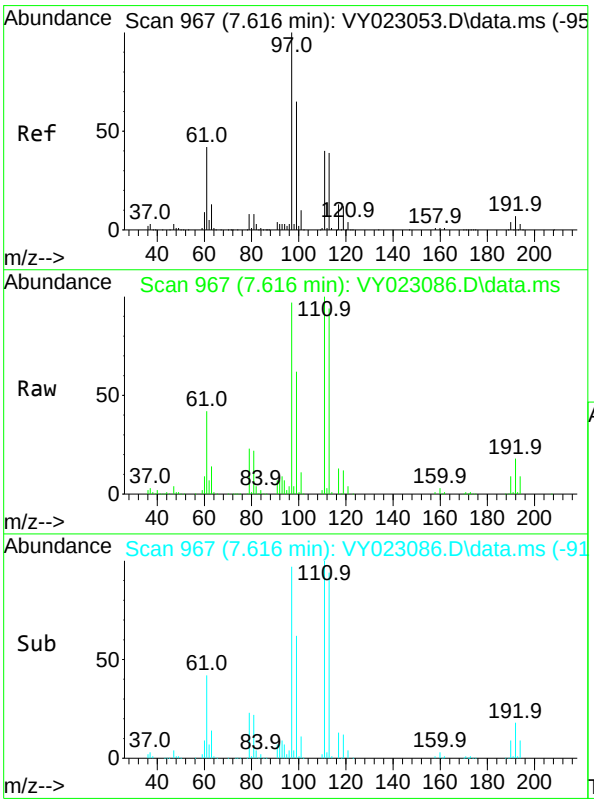
#31
Cyclohexane
Concen: 19.392 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 56 Resp: 156917

Ion	Ratio	Lower	Upper
56	100		
69	39.1	28.2	42.2
84	93.6	76.6	114.8

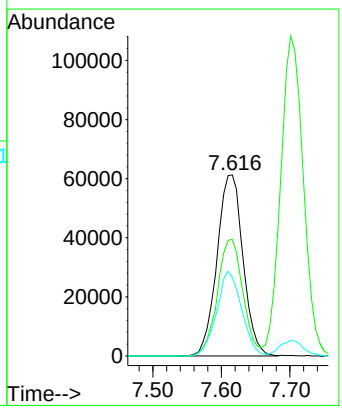


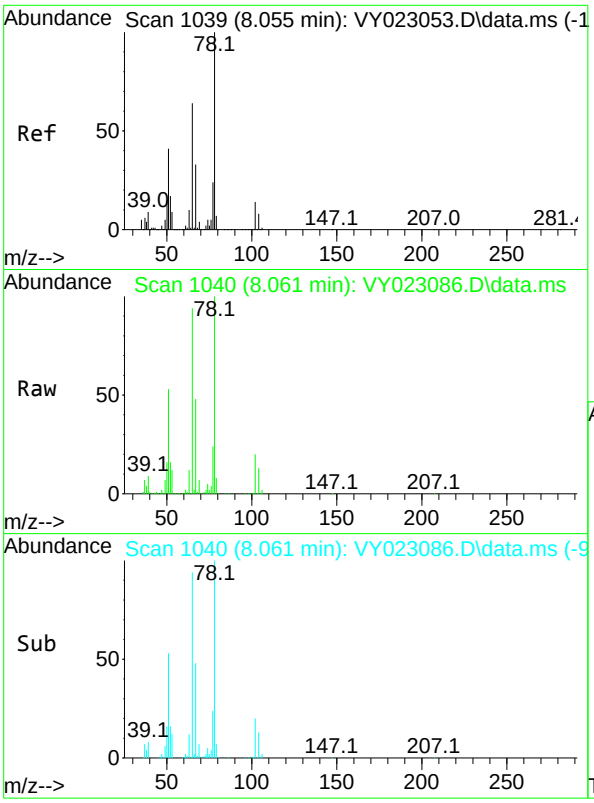


#32
1,1,1-Trichloroethane
Concen: 20.543 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 97 Resp: 161426

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.6	77.4
61	44.8	34.2	51.2



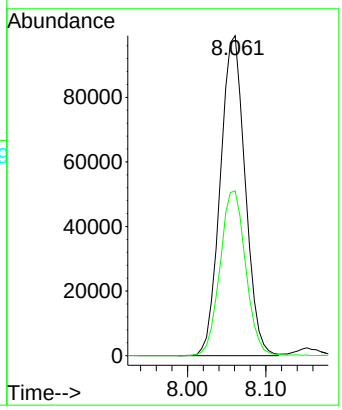


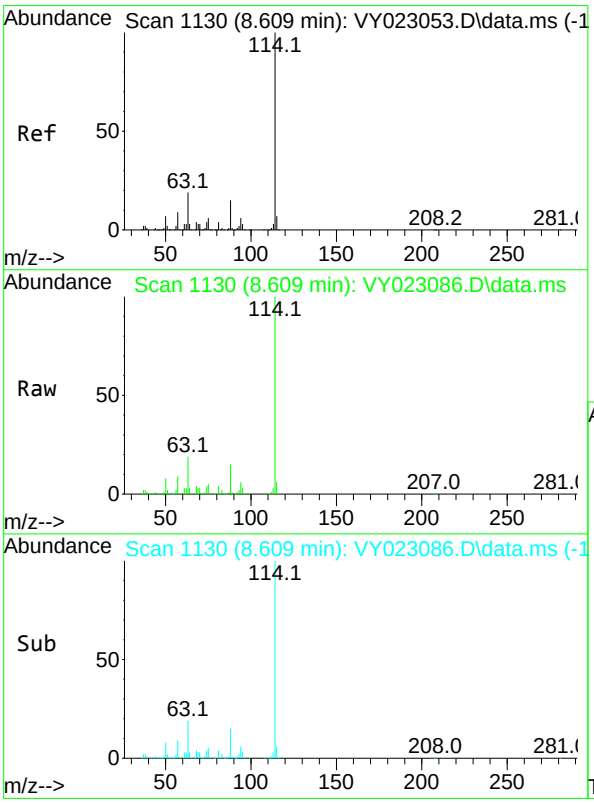
#33
1,2-Dichloroethane-d4
Concen: 50.253 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 65 Resp: 218317

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.8

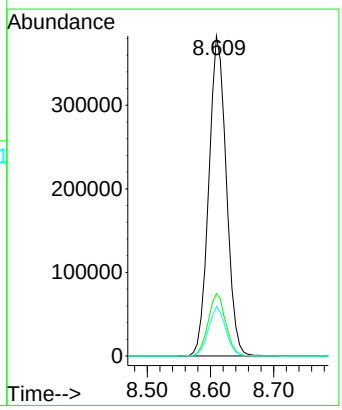


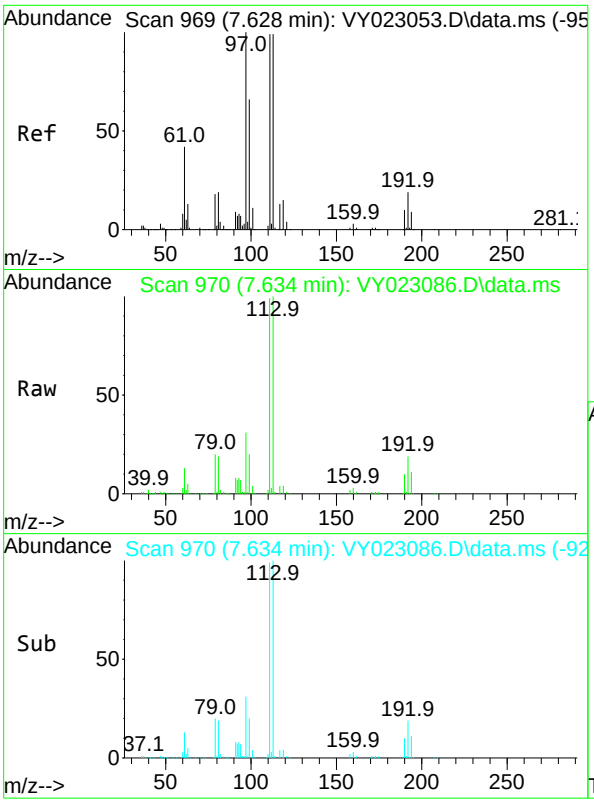


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:114 Resp: 734618

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	38.4
88	15.4	0.0	30.0



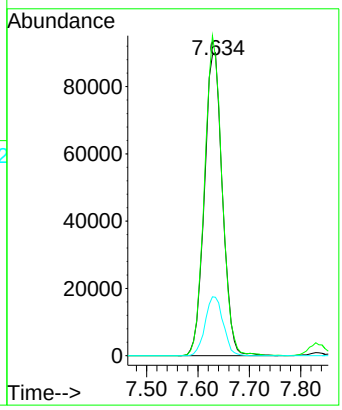


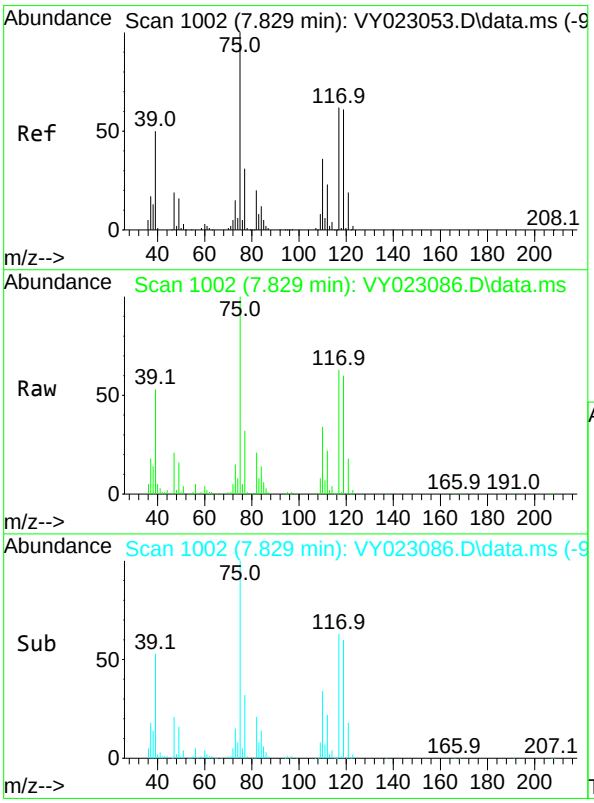
#35
Dibromofluoromethane
Concen: 50.078 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:113 Resp: 220130

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.1	121.7
192	19.4	16.2	24.4

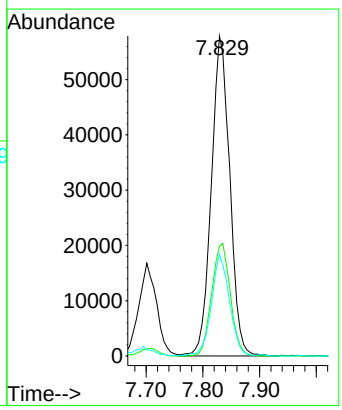


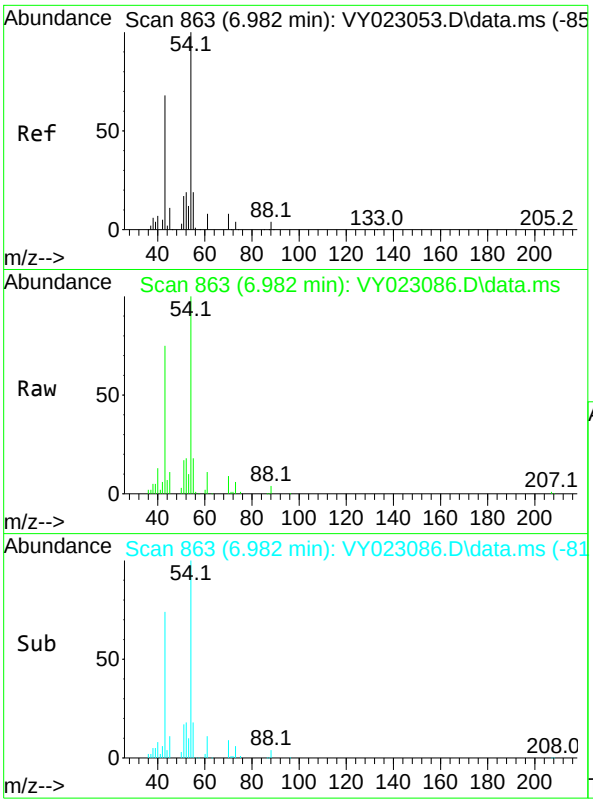


#36
1,1-Dichloropropene
Concen: 20.063 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 131067

Ion	Ratio	Lower	Upper
75	100		
110	35.5	18.1	54.4
77	30.8	24.6	37.0



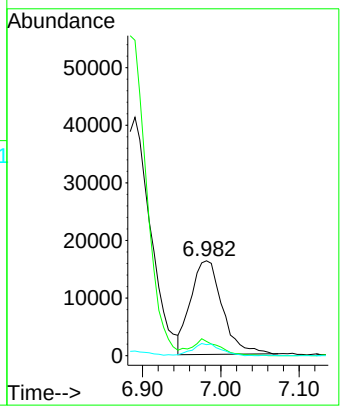


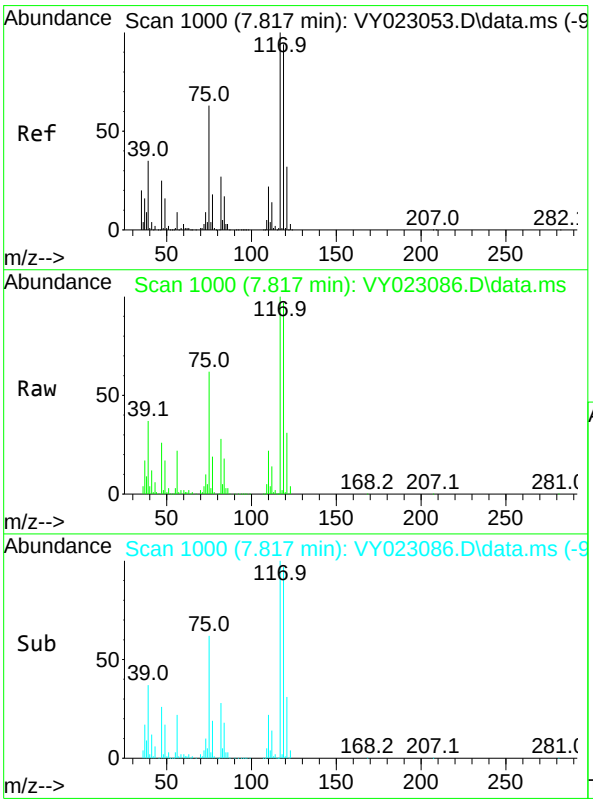
#37
Ethyl Acetate
Concen: 16.687 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 43 Resp: 45793

Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.9	17.9
70	11.4	8.8	13.2

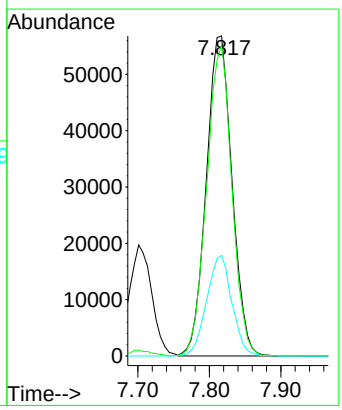


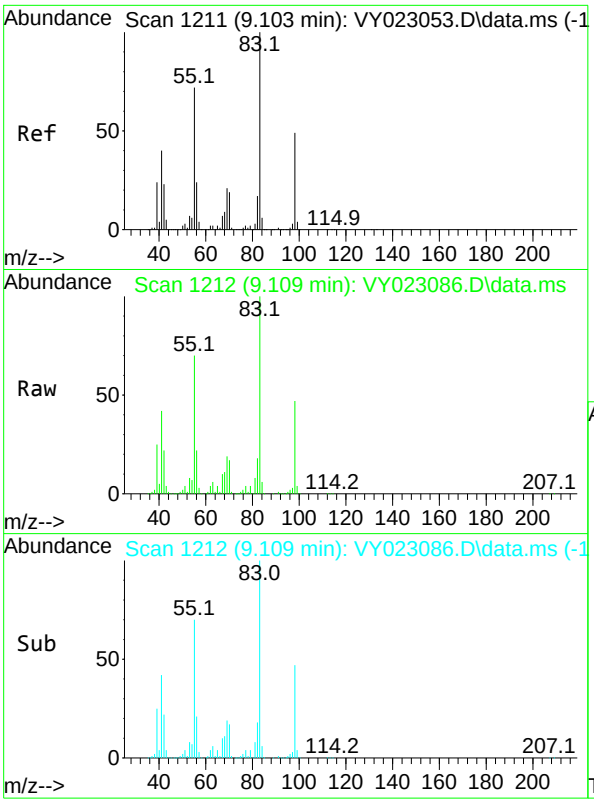


#38
Carbon Tetrachloride
Concen: 20.062 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 142349

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.6	113.4
121	31.4	25.8	38.8



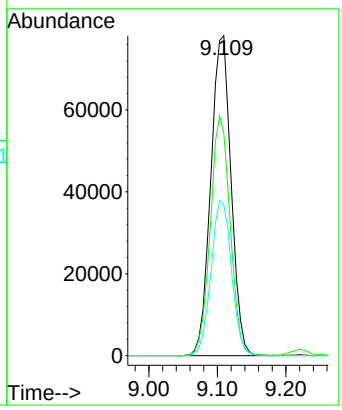


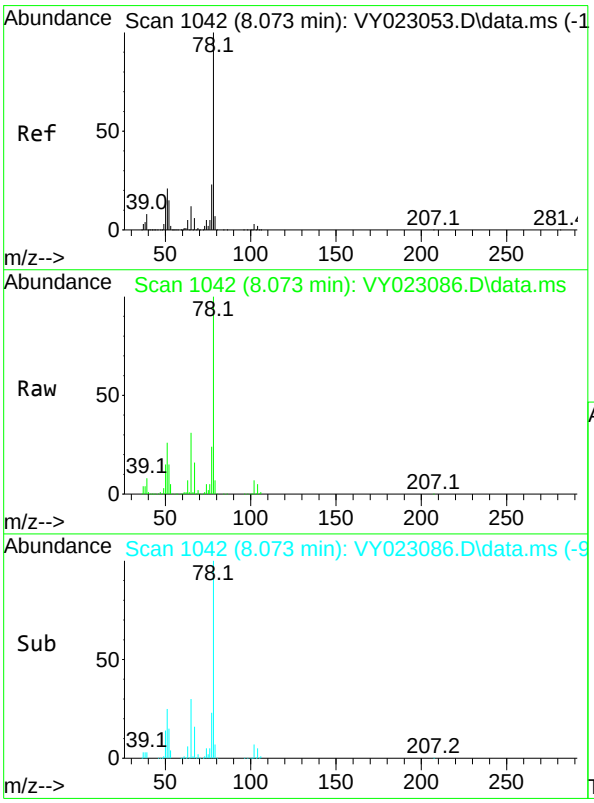
#39
Methylcyclohexane
Concen: 18.690 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 83 Resp: 160783

Ion	Ratio	Lower	Upper
83	100		
55	69.6	57.6	86.4
98	47.1	39.2	58.8

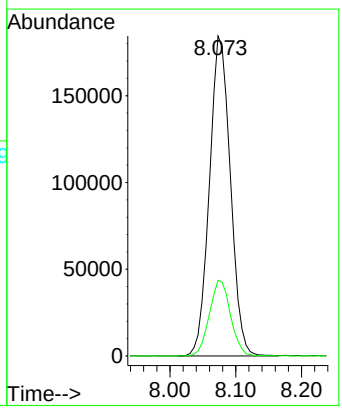


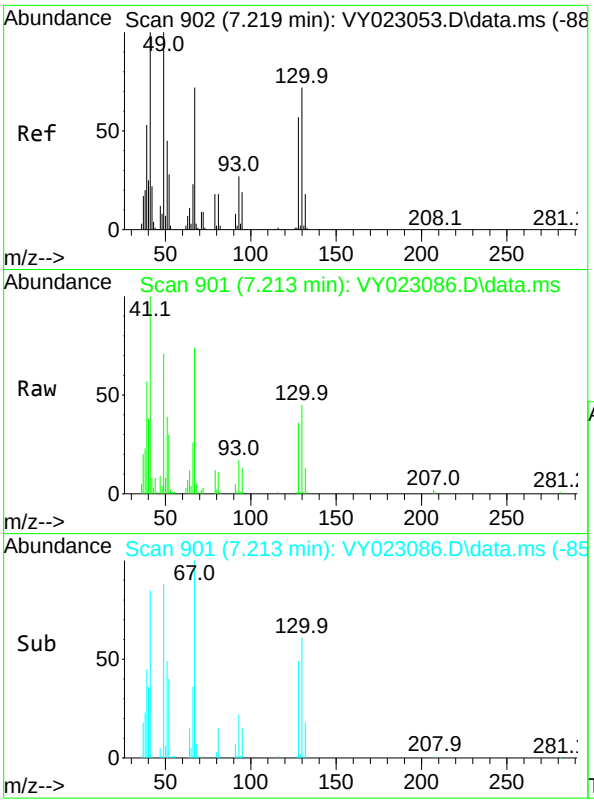


#40
Benzene
Concen: 20.306 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 78 Resp: 408860

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.6	28.0



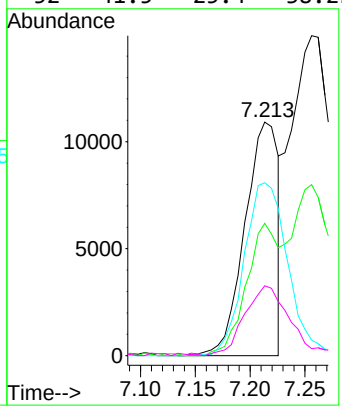


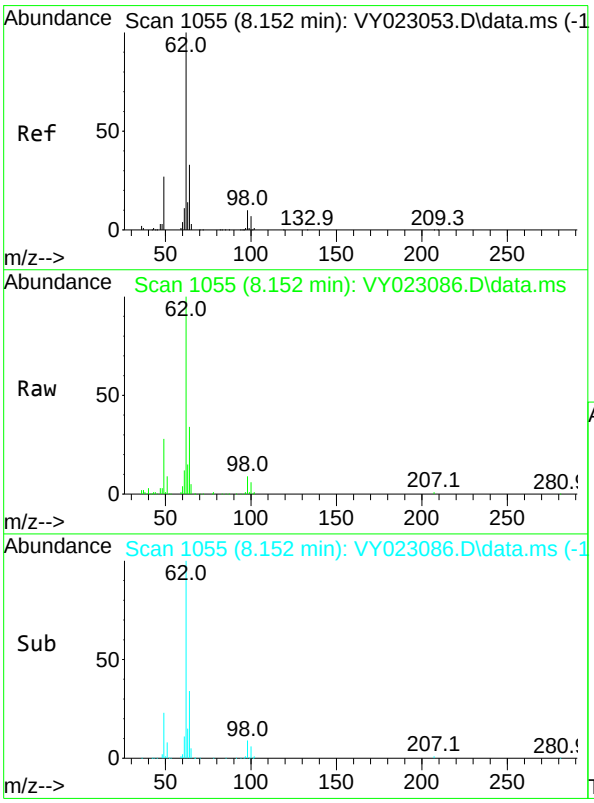
#41
Methacrylonitrile
Concen: 14.607 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 41 Resp: 23134

Ion	Ratio	Lower	Upper
41	100		
39	53.2	43.4	65.2
67	97.5	63.6	95.4#
52	41.5	25.4	38.2#

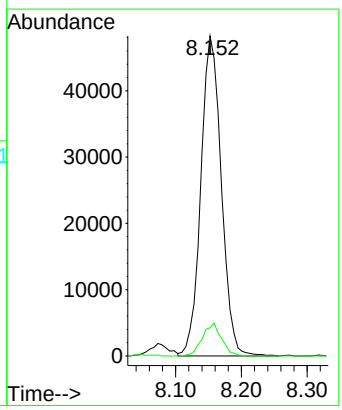


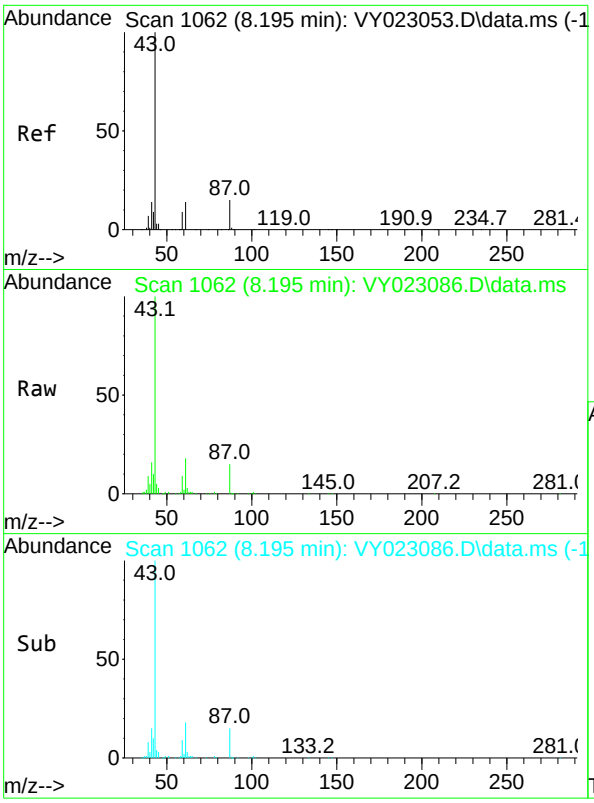


#42
1,2-Dichloroethane
Concen: 19.970 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 104577

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6



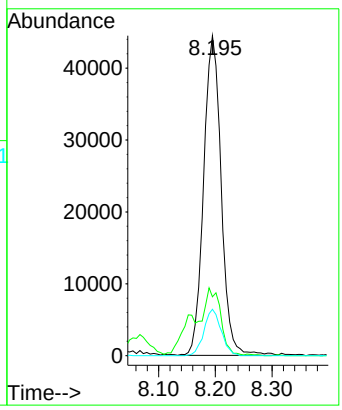


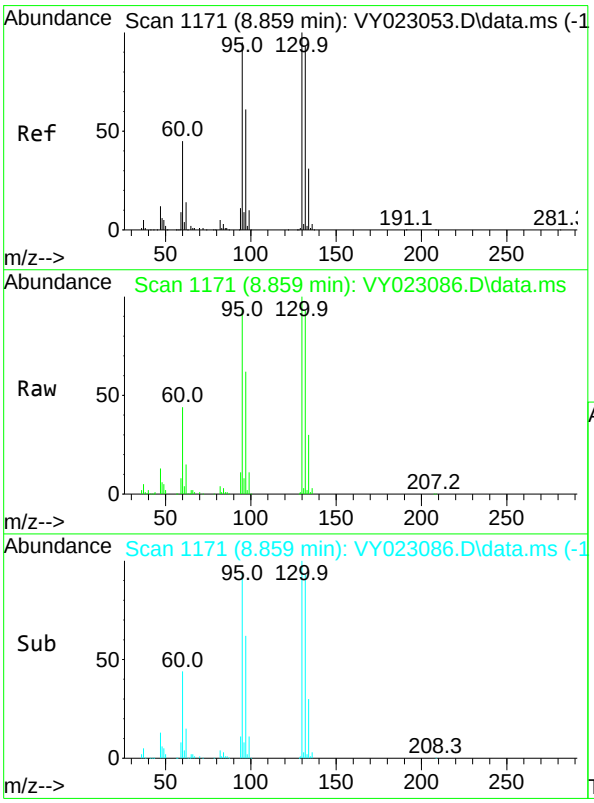
#43
Isopropyl Acetate
Concen: 17.262 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 43 Resp: 95745

Ion	Ratio	Lower	Upper
43	100		
61	19.7	16.4	24.6
87	14.2	11.8	17.6

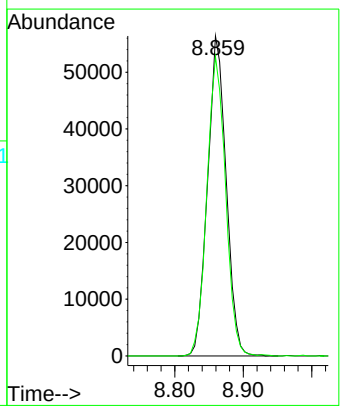


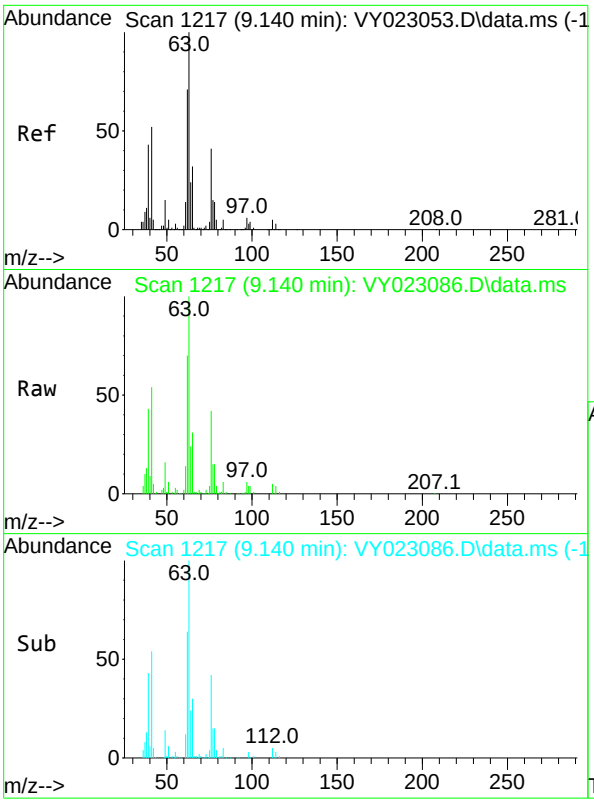


#44
Trichloroethene
Concen: 20.488 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:130 Resp: 106605

Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	190.2



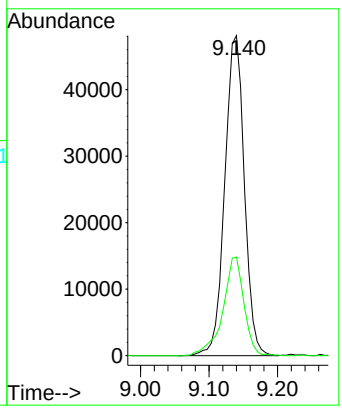


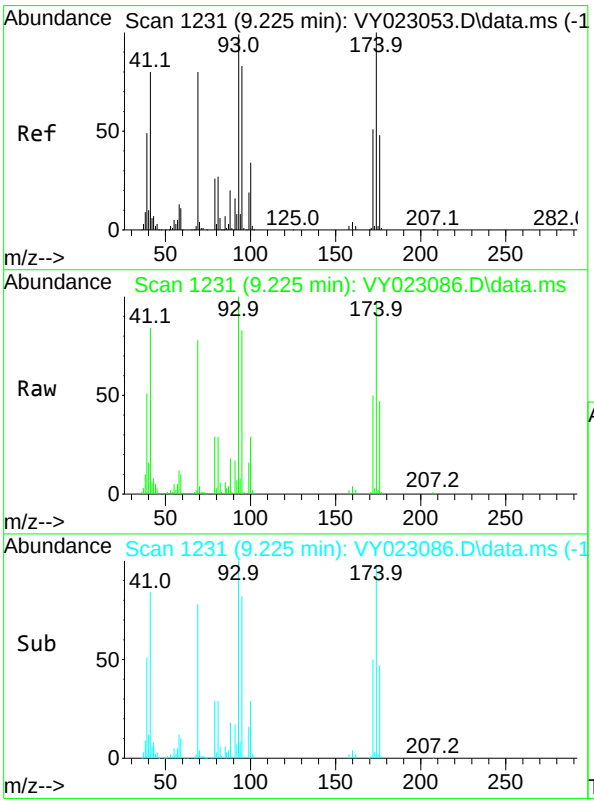
#45
1,2-Dichloropropane
Concen: 20.603 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 63 Resp: 95447

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.3	37.9

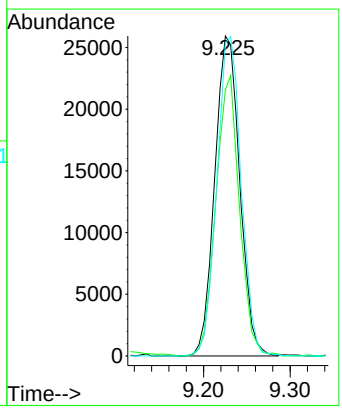


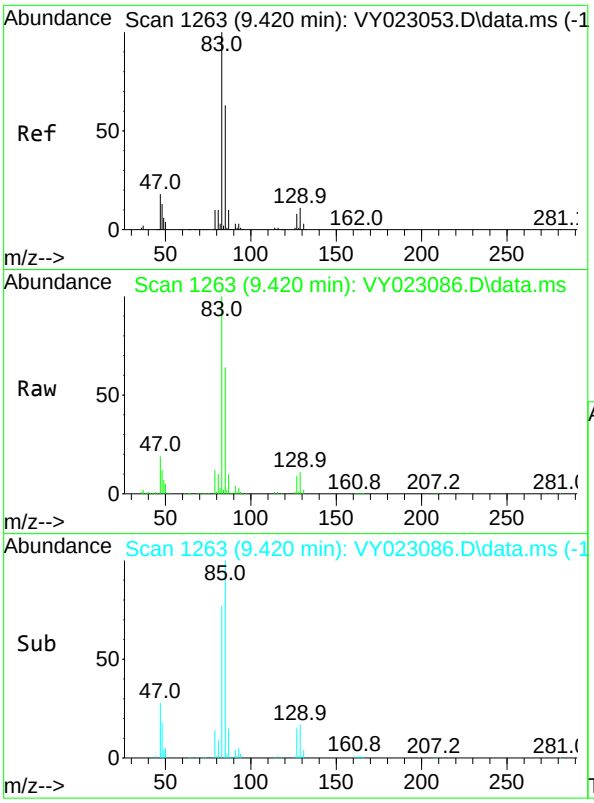


#46
Dibromomethane
Concen: 19.543 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 93 Resp: 51967

Ion	Ratio	Lower	Upper
93	100		
95	82.9	66.5	99.7
174	97.3	81.8	122.8



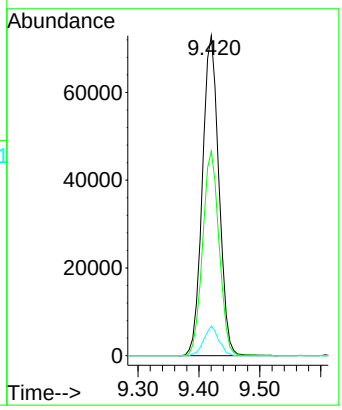


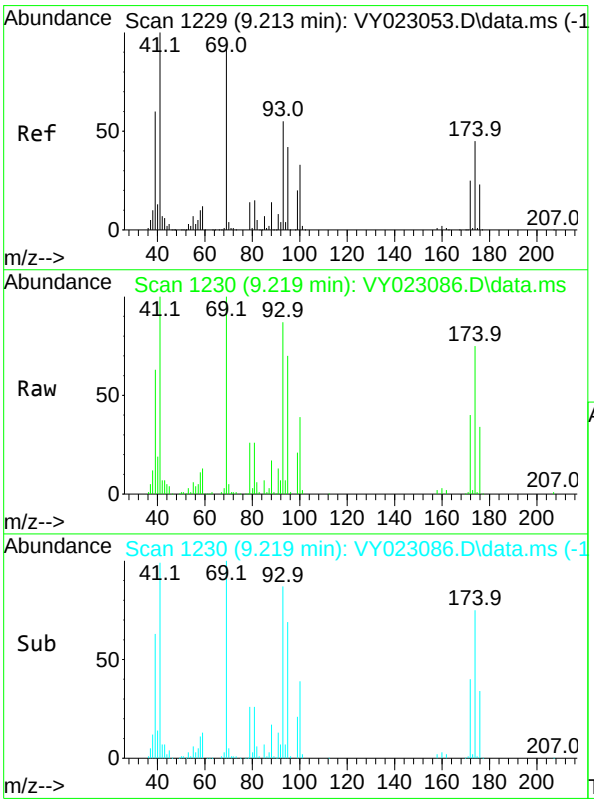
#47
Bromodichloromethane
Concen: 20.042 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 83 Resp: 137131

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.2	75.4
127	9.2	6.6	10.0

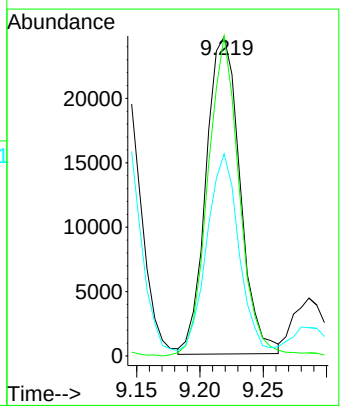


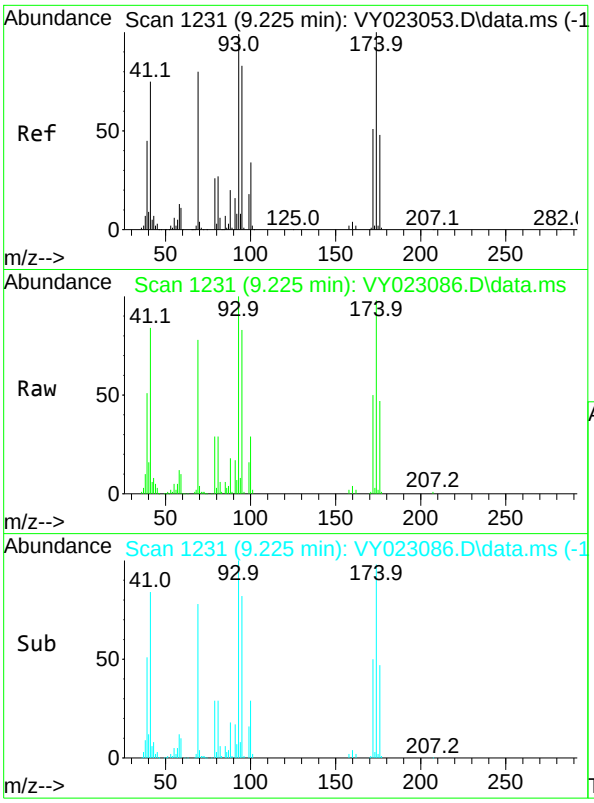


#48
Methyl methacrylate
Concen: 17.327 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 45987

Ion	Ratio	Lower	Upper
41	100		
69	93.6	73.2	109.8
39	58.0	47.0	70.4



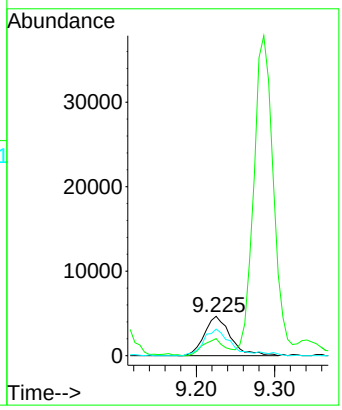


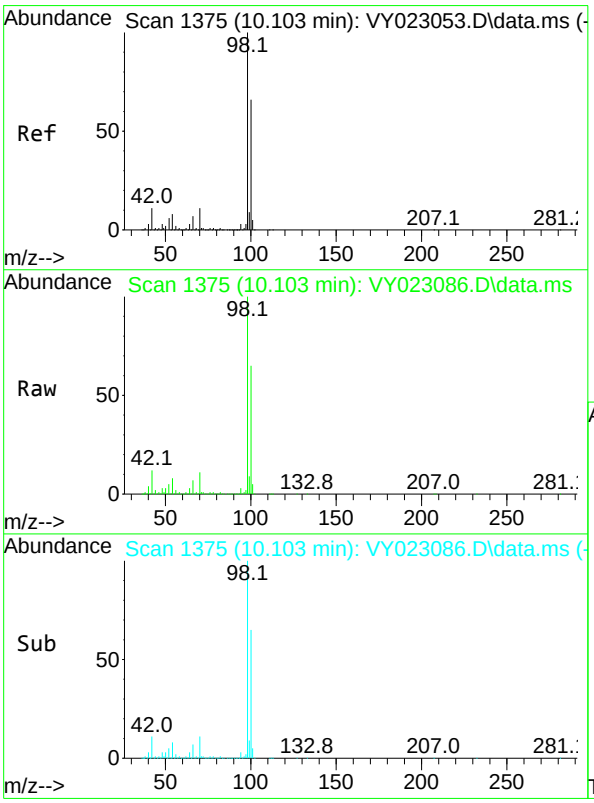
#49
1,4-Dioxane
Concen: 345.913 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 88 Resp: 10785

Ion	Ratio	Lower	Upper
88	100		
43	37.3	24.3	36.5#
58	67.2	55.4	83.0

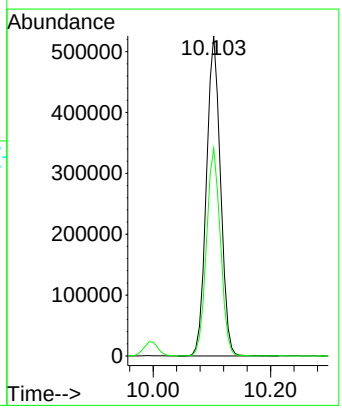


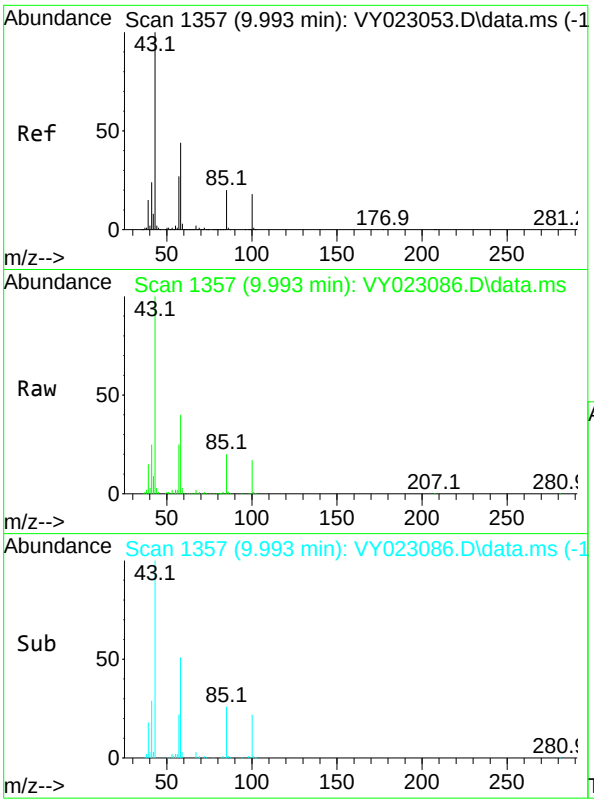


#50
Toluene-d8
Concen: 50.855 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 98 Resp: 873299

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.3	78.5



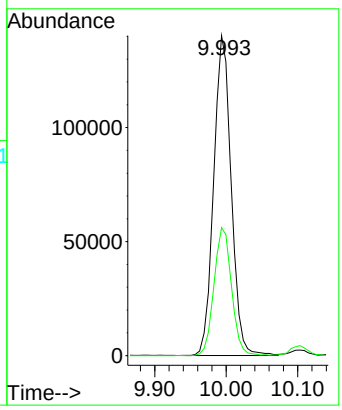


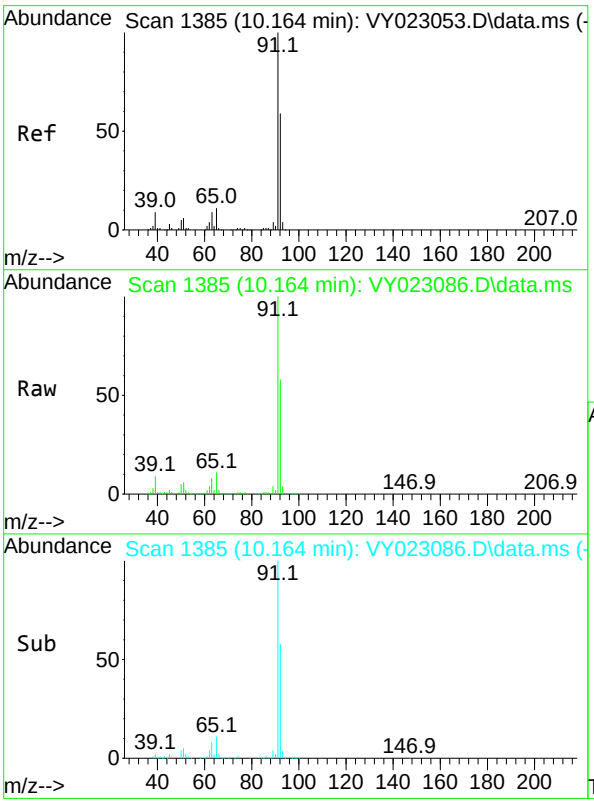
#51
4-Methyl-2-Pentanone
Concen: 83.495 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 43 Resp: 238881

Ion	Ratio	Lower	Upper
43	100		
58	40.1	33.5	50.3

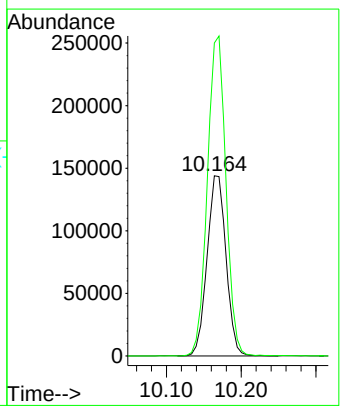


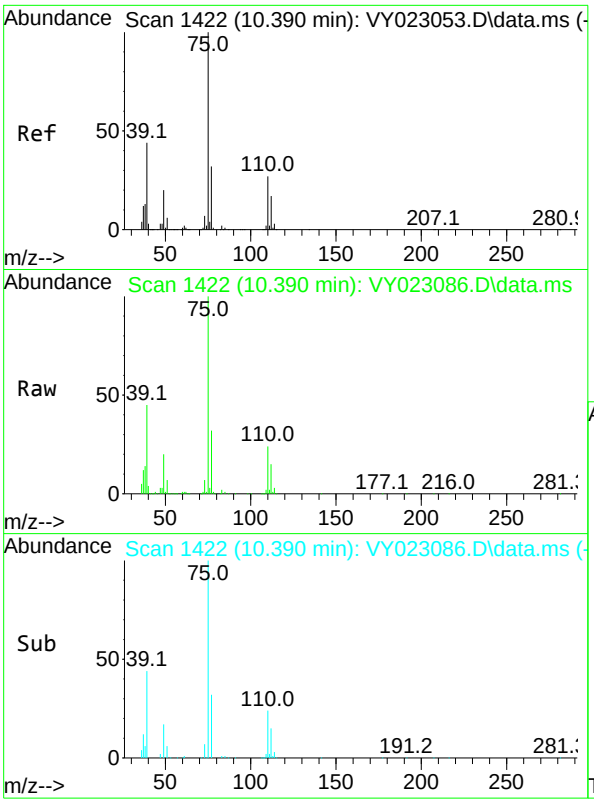


#52
Toluene
Concen: 19.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 92 Resp: 252944

Ion	Ratio	Lower	Upper
92	100		
91	174.7	136.4	204.6



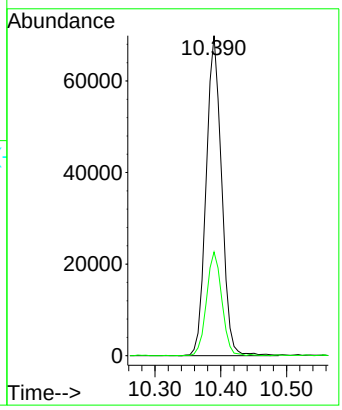


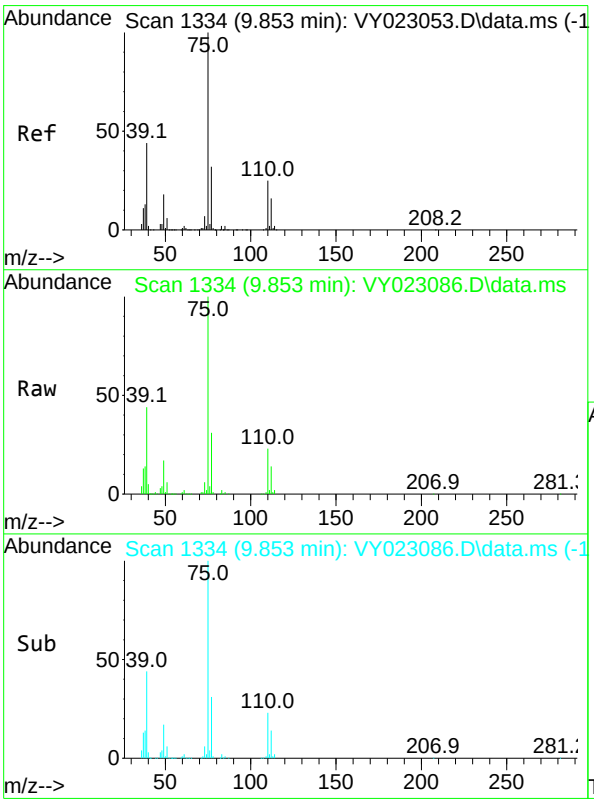
#53
t-1,3-Dichloropropene
Concen: 18.458 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 75 Resp: 114364

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.7	38.5

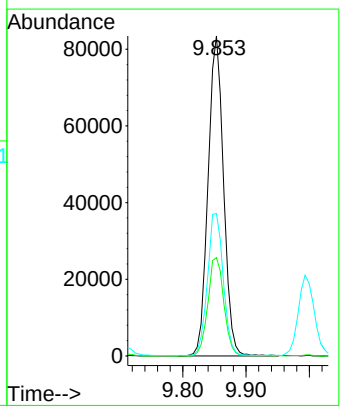


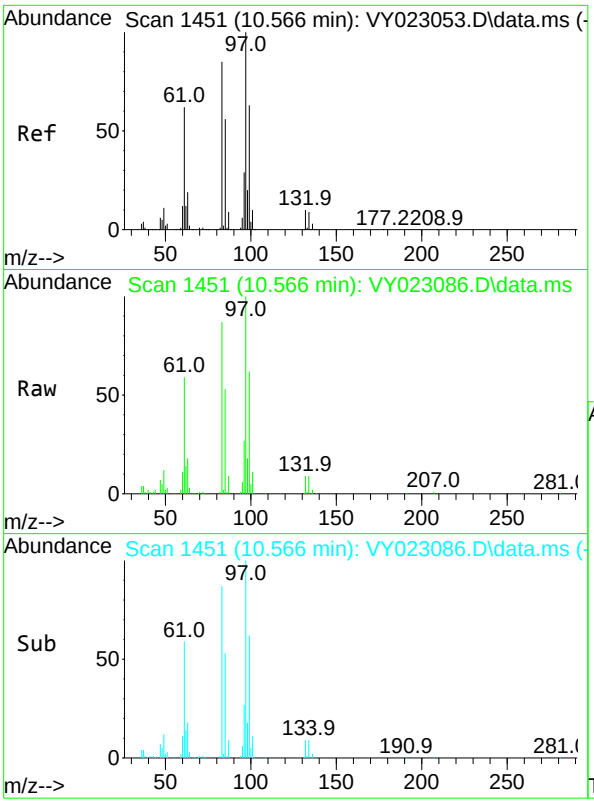


#54
cis-1,3-Dichloropropene
Concen: 19.379 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 141980

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0
39	44.3	35.6	53.4



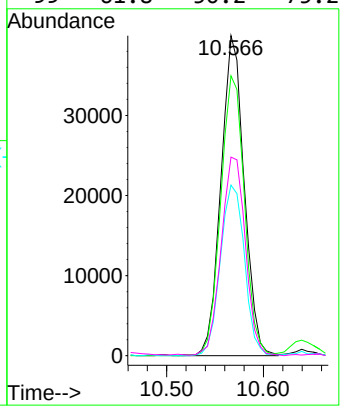


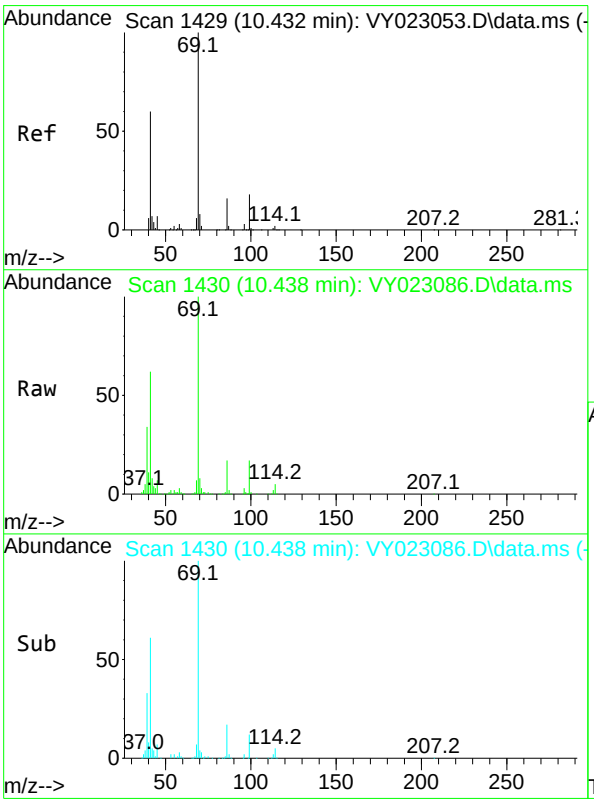
#55
1,1,2-Trichloroethane
Concen: 18.734 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 97 Resp: 66658

Ion	Ratio	Lower	Upper
97	100		
83	87.4	67.7	101.5
85	53.3	44.5	66.7
99	61.8	50.2	75.2

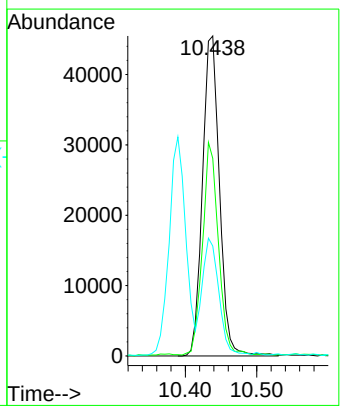


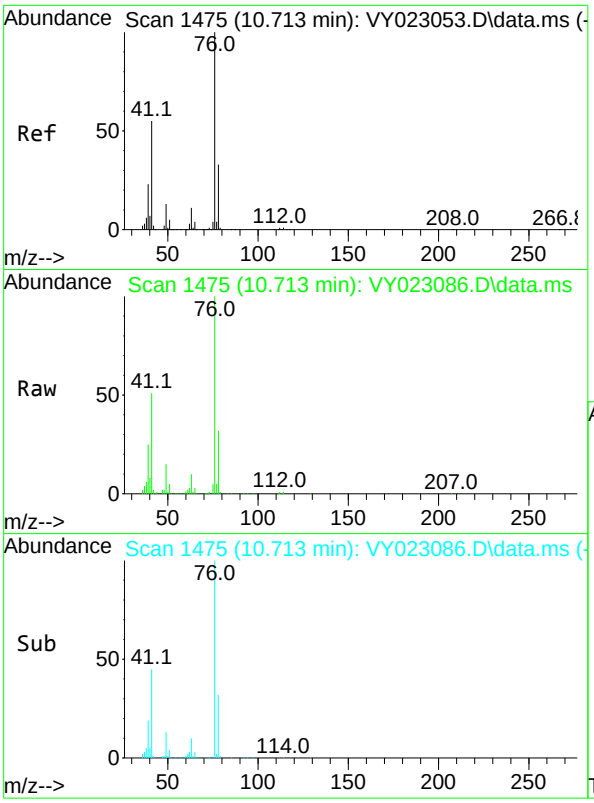


#56
Ethyl methacrylate
Concen: 16.500 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 69 Resp: 75122

Ion	Ratio	Lower	Upper
69	100		
41	61.9	48.6	72.8
39	35.1	27.0	40.4



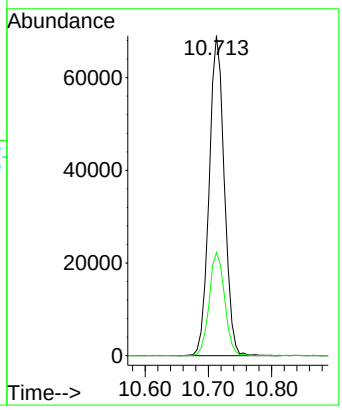


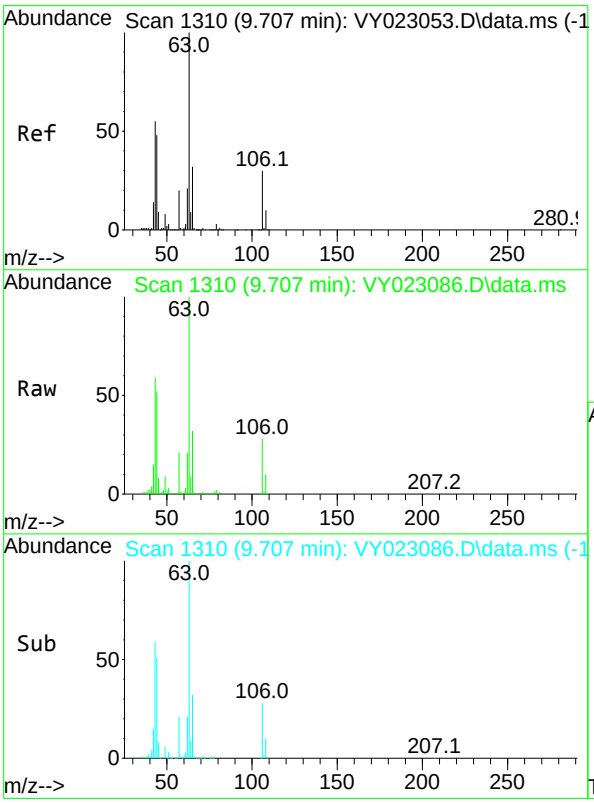
#57
1,3-Dichloropropane
Concen: 19.034 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 76 Resp: 114859

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.0	39.0

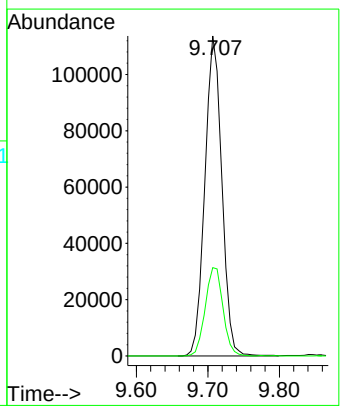


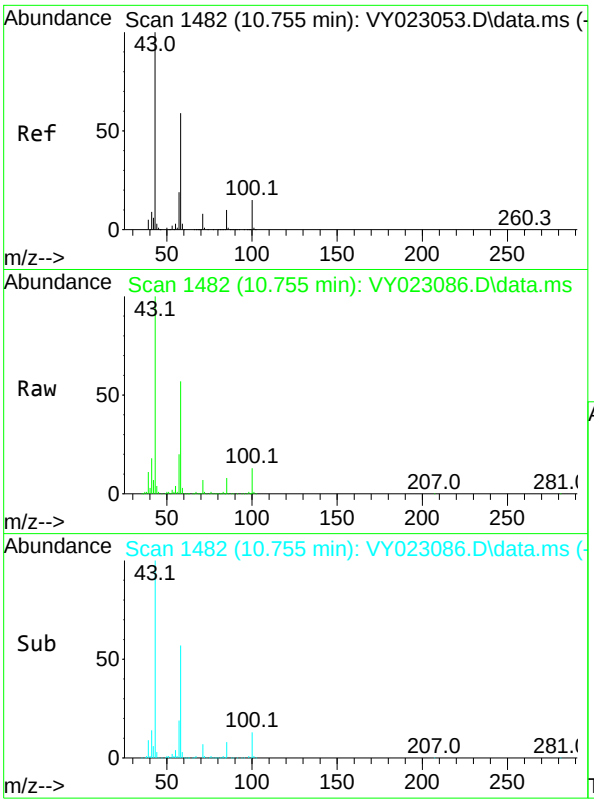


#58
2-Chloroethyl Vinyl ether
Concen: 87.167 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 187201

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.2	34.8



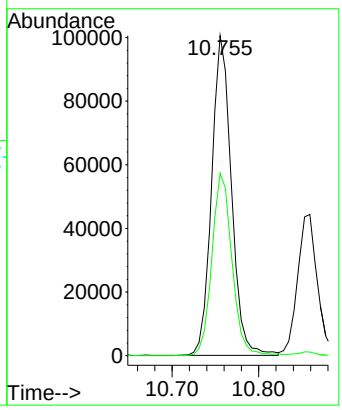


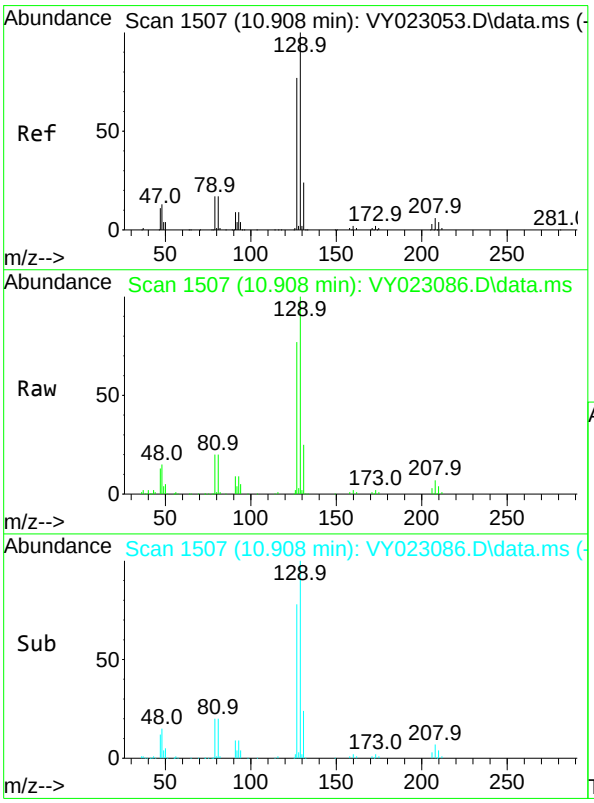
#59
2-Hexanone
Concen: 81.934 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 43 Resp: 159619

Ion	Ratio	Lower	Upper
43	100		
58	57.8	29.5	88.5

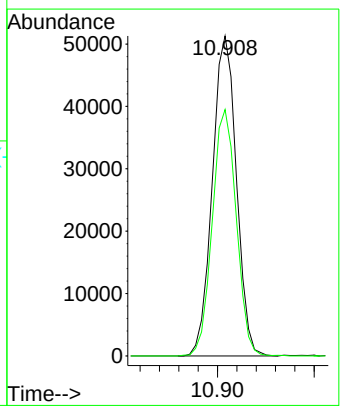


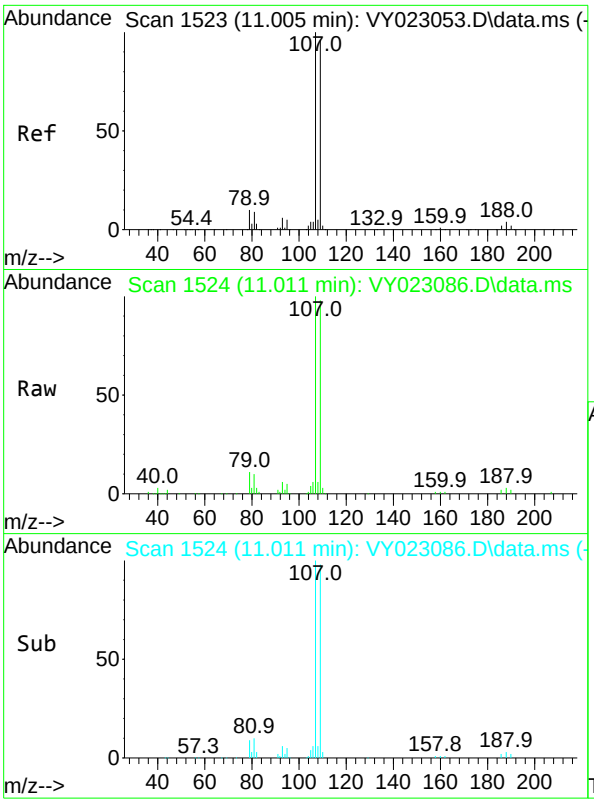


#60
Dibromochloromethane
Concen: 18.819 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:129 Resp: 88354

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.5



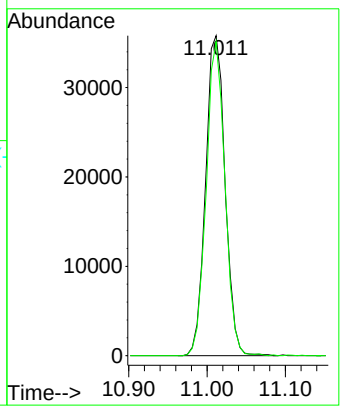


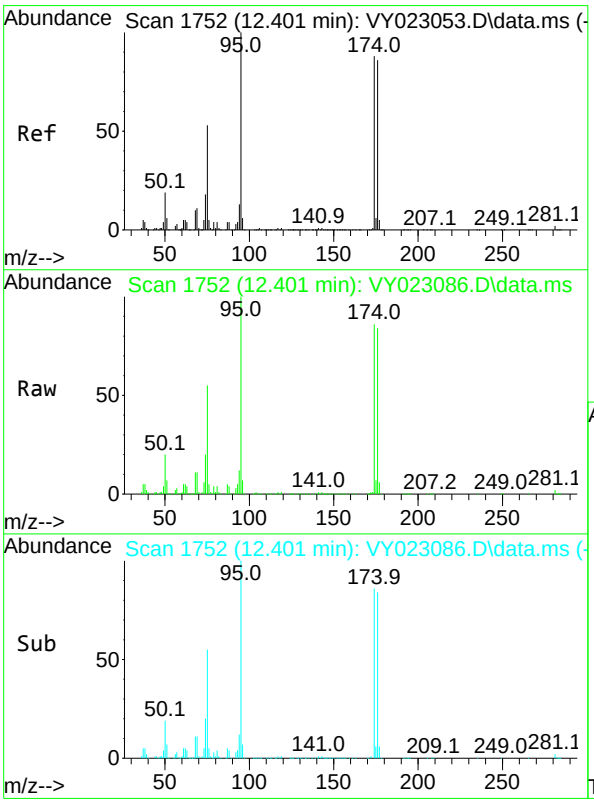
#61
1,2-Dibromoethane
Concen: 18.463 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:107 Resp: 61746

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.6	113.4

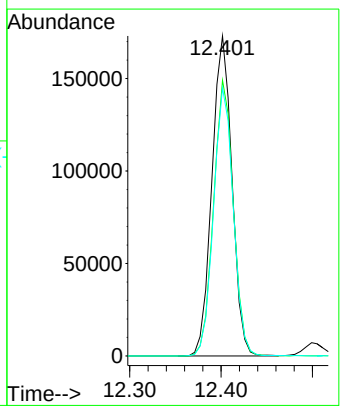


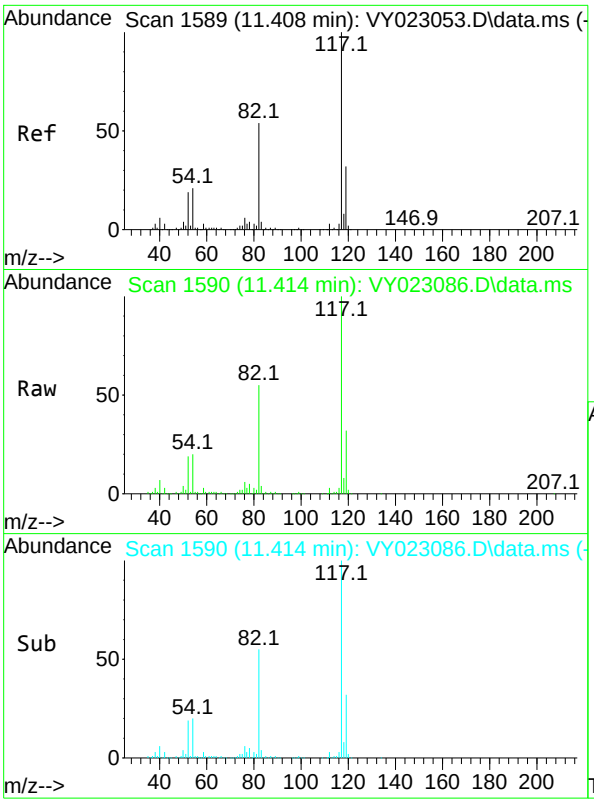


#62
4-Bromofluorobenzene
Concen: 47.657 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 95 Resp: 263190

Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	171.6
176	82.8	0.0	167.6



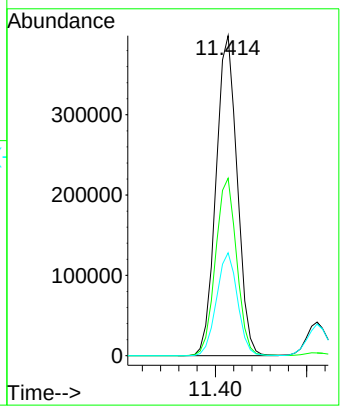


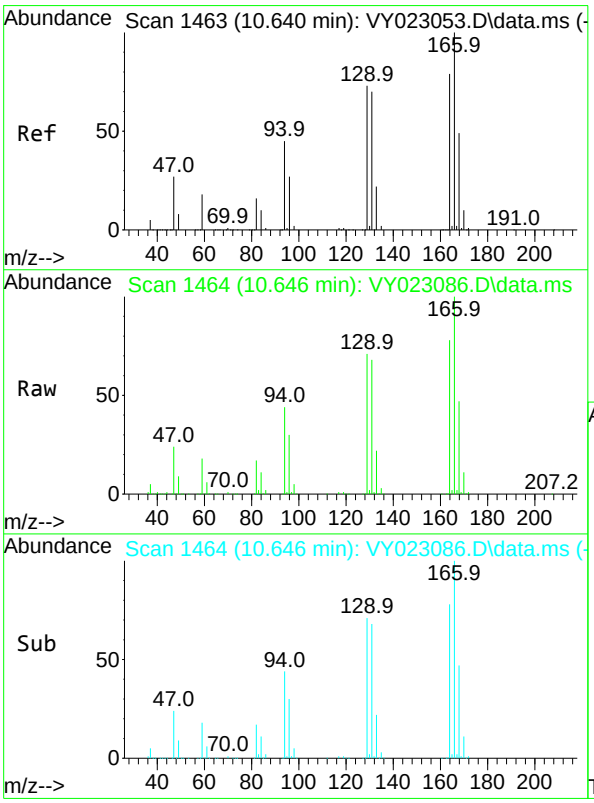
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:117 Resp: 641778

Ion	Ratio	Lower	Upper
117	100		
82	55.5	43.4	65.0
119	32.2	25.6	38.4

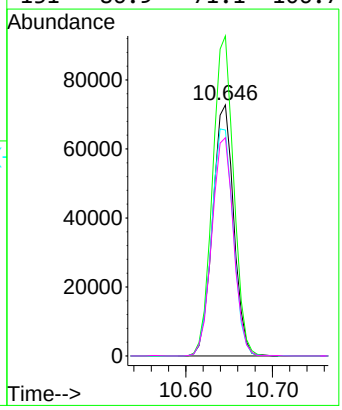


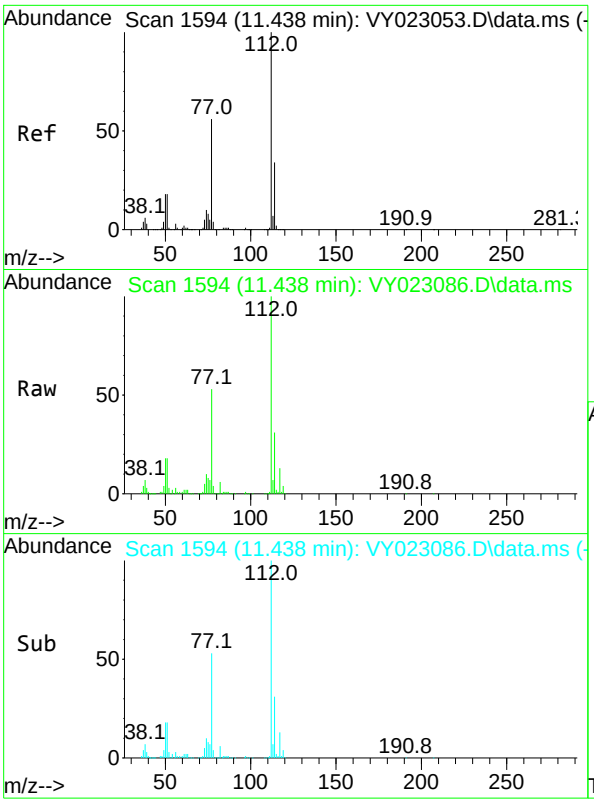


#64
Tetrachloroethene
Concen: 21.538 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:164 Resp: 123429

Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.1	151.7
129	90.0	74.0	111.0
131	86.9	71.1	106.7



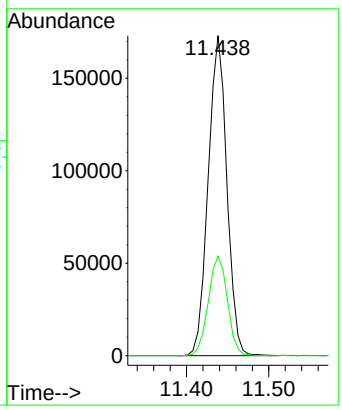


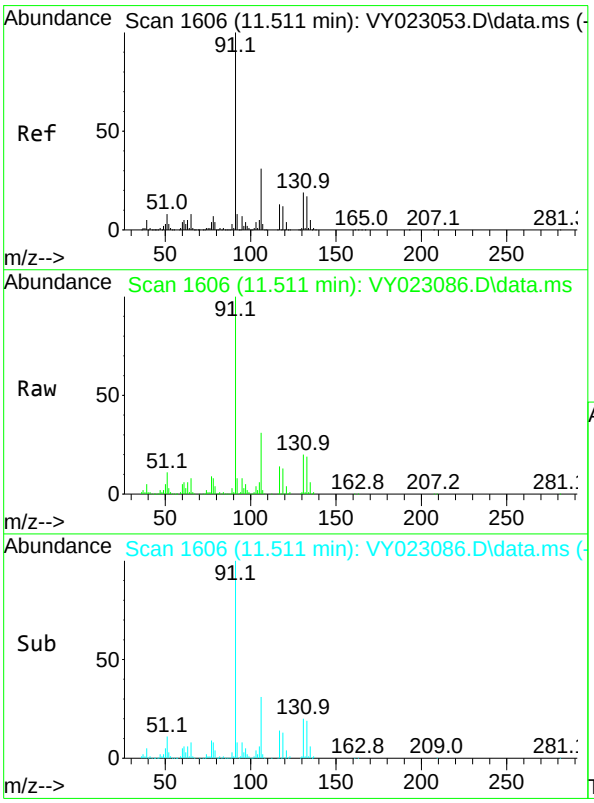
#65
Chlorobenzene
Concen: 19.716 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:112 Resp: 272937

Ion	Ratio	Lower	Upper
112	100		
114	31.1	27.0	40.4

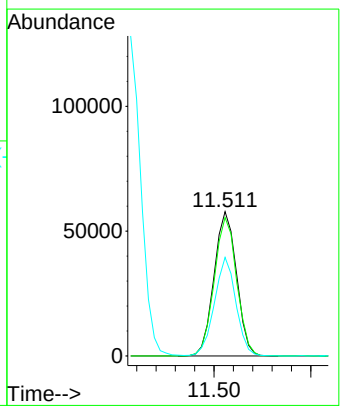


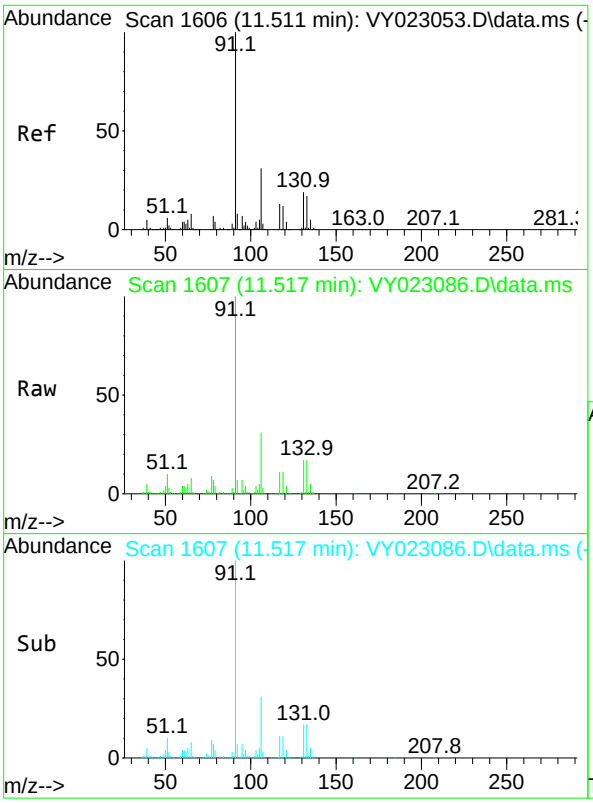


#66
1,1,1,2-Tetrachloroethane
Concen: 19.819 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:131 Resp: 93115

Ion	Ratio	Lower	Upper
131	100		
133	96.1	46.9	140.6
119	65.5	33.2	99.6



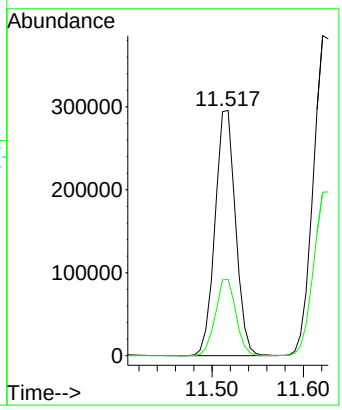


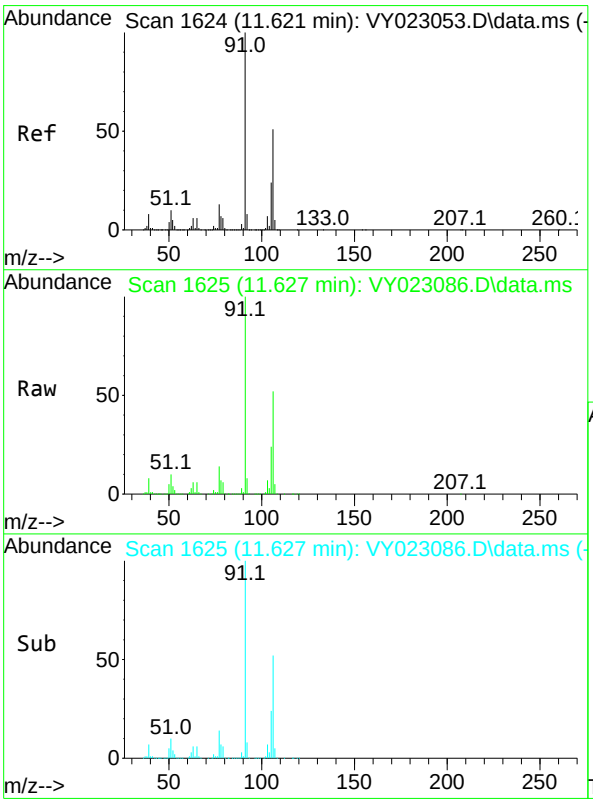
#67
Ethyl Benzene
Concen: 19.391 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 91 Resp: 461952

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.0	37.4

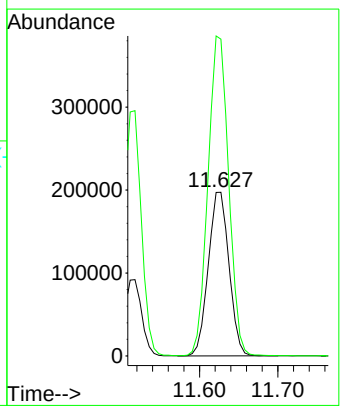


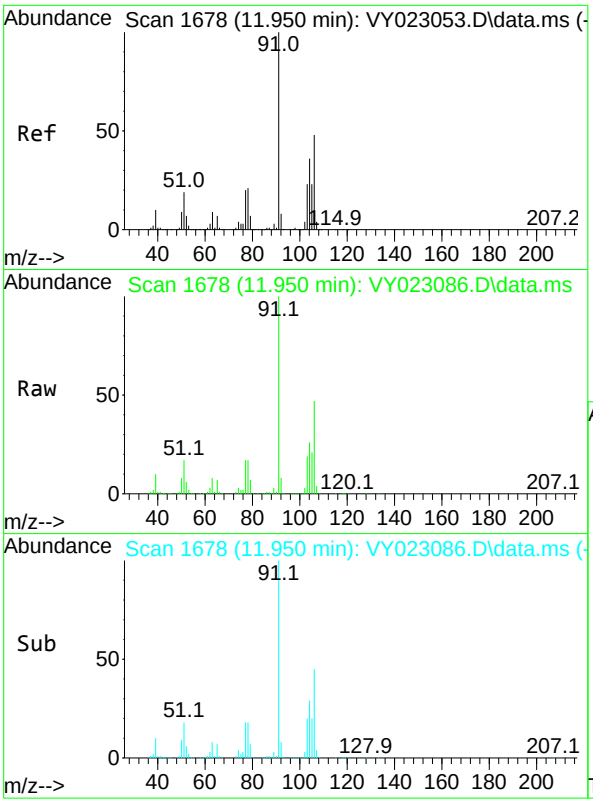


#68
m/p-Xylenes
Concen: 38.921 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:106 Resp: 362129

Ion	Ratio	Lower	Upper
106	100		
91	195.1	158.6	238.0



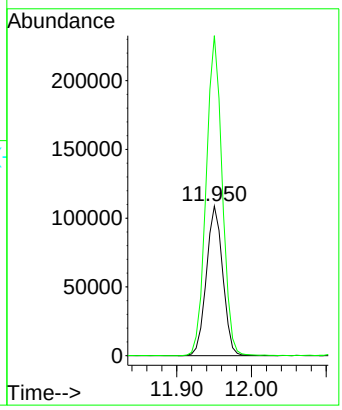


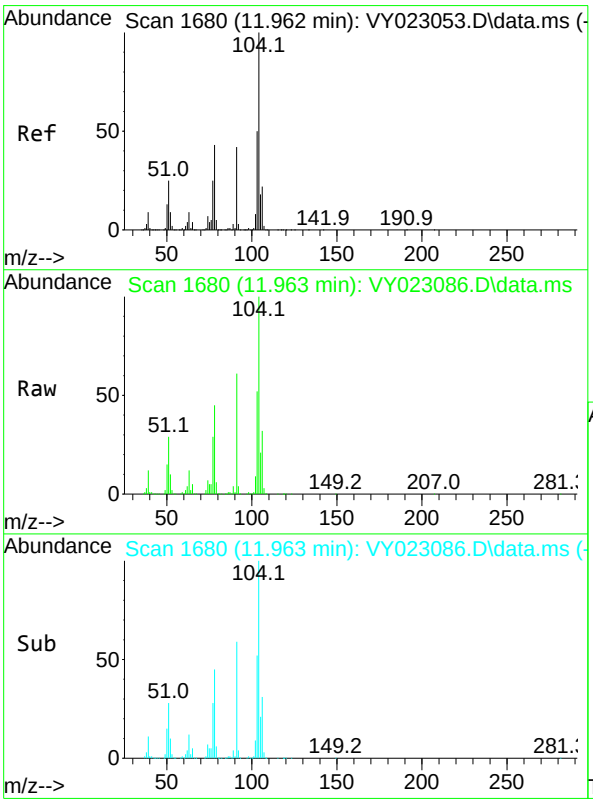
#69
o-Xylene
Concen: 18.990 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:106 Resp: 165485

Ion	Ratio	Lower	Upper
106	100		
91	210.3	103.2	309.4

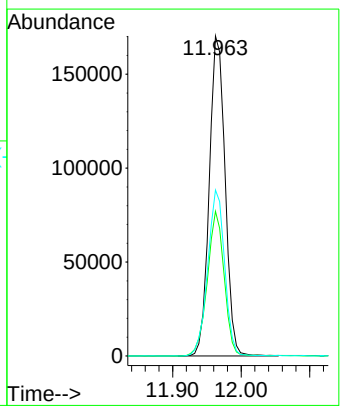


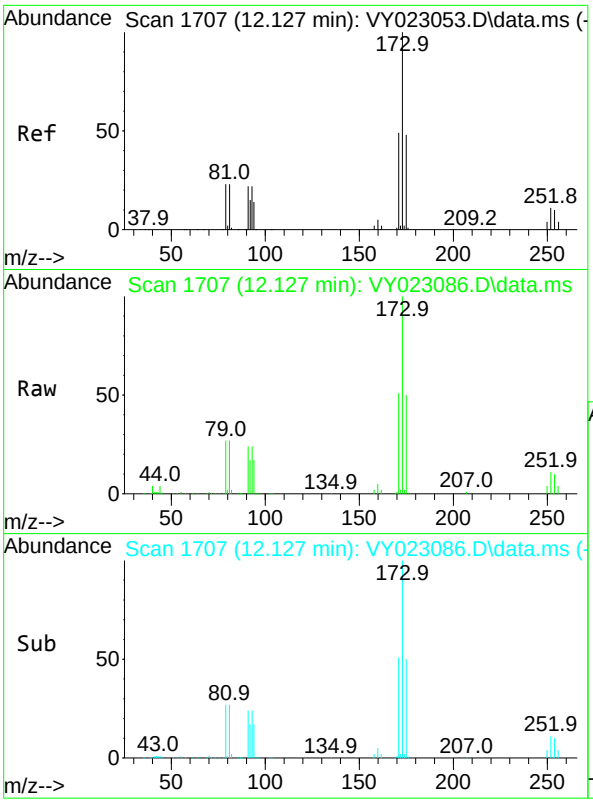


#70
Styrene
Concen: 19.209 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:104 Resp: 273749

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.5	57.7
103	55.5	43.7	65.5



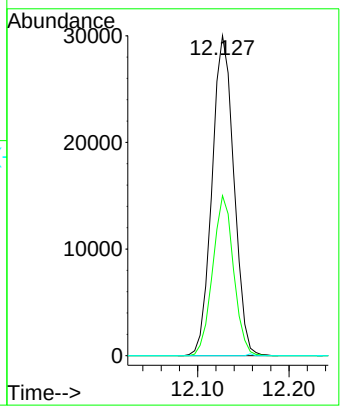


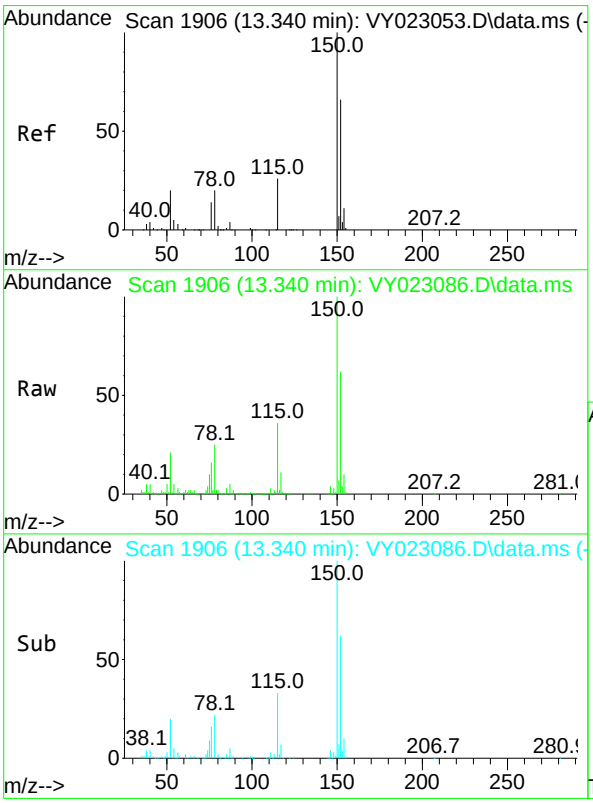
#71
Bromoform
Concen: 18.159 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:173 Resp: 49863

Ion	Ratio	Lower	Upper
173	100		
175	47.7	23.9	71.7
254	0.0	0.1	0.1#

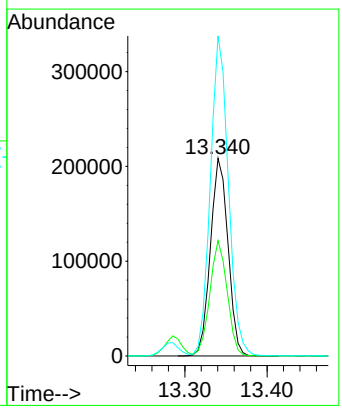


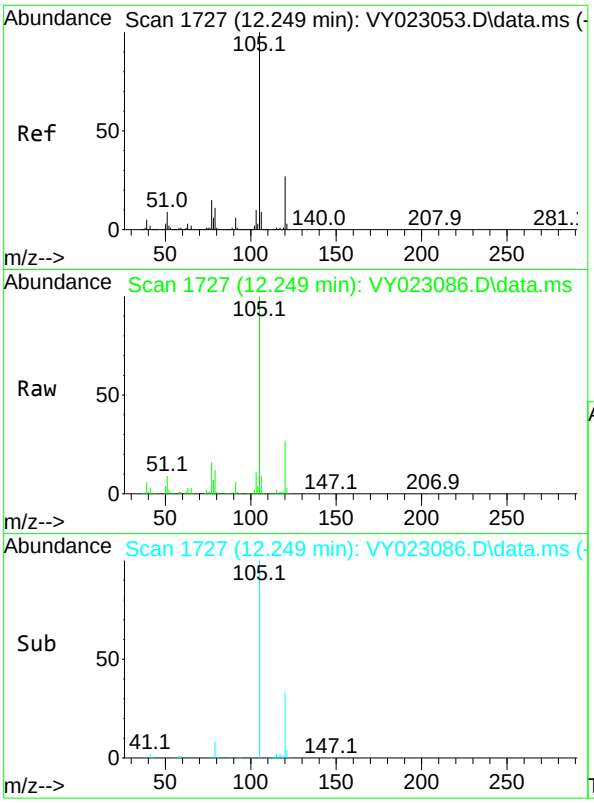


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:152 Resp: 309825

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.2	84.6
150	166.2	0.0	348.0



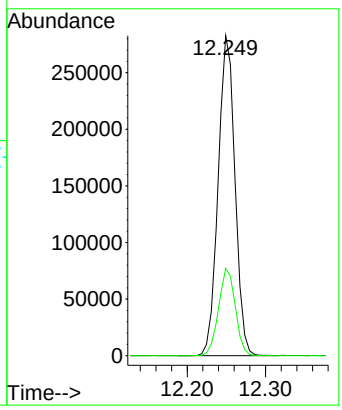


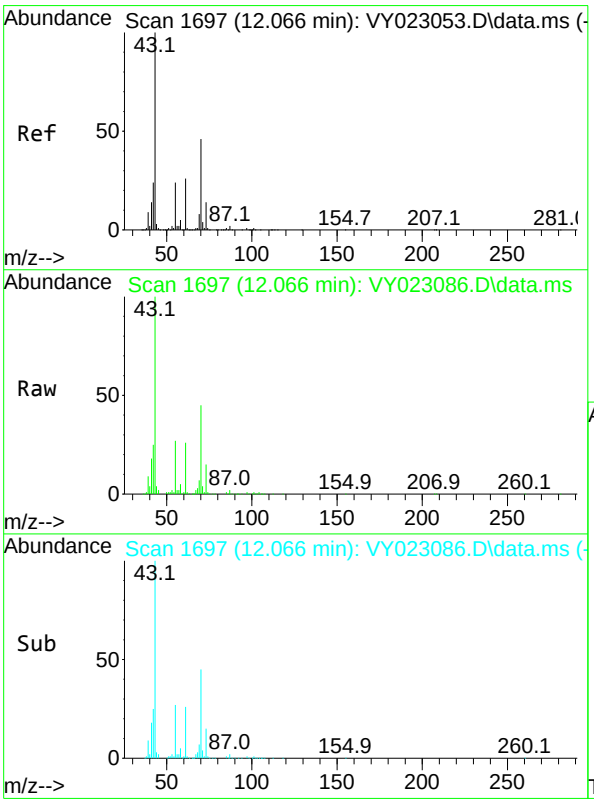
#73
Isopropylbenzene
Concen: 19.345 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:105 Resp: 423027

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2

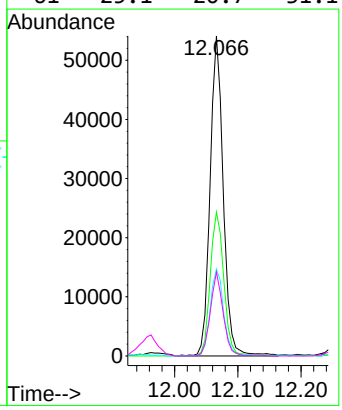


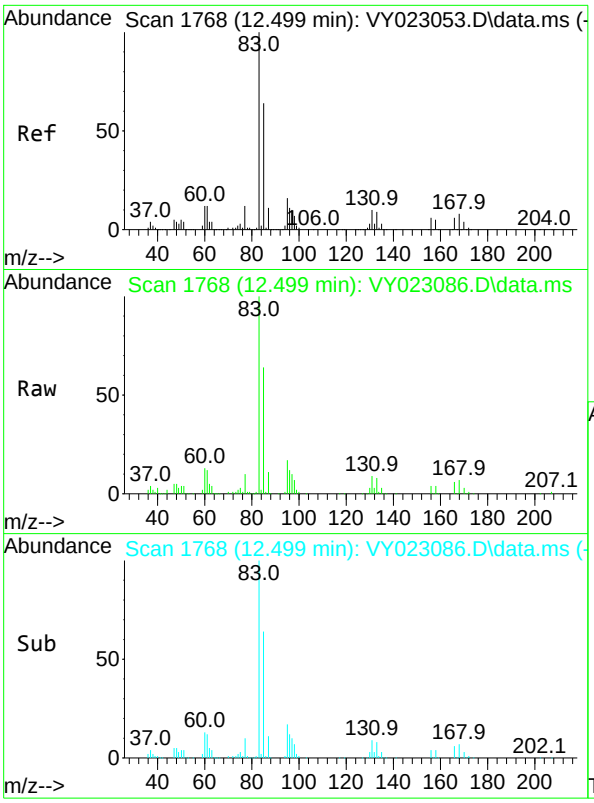


#74
N-amyl acetate
Concen: 16.952 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 78613

Ion	Ratio	Lower	Upper
43	100		
70	46.5	37.5	56.3
55	28.0	20.7	31.1
61	25.1	20.7	31.1



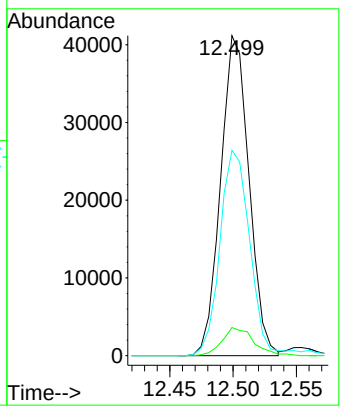


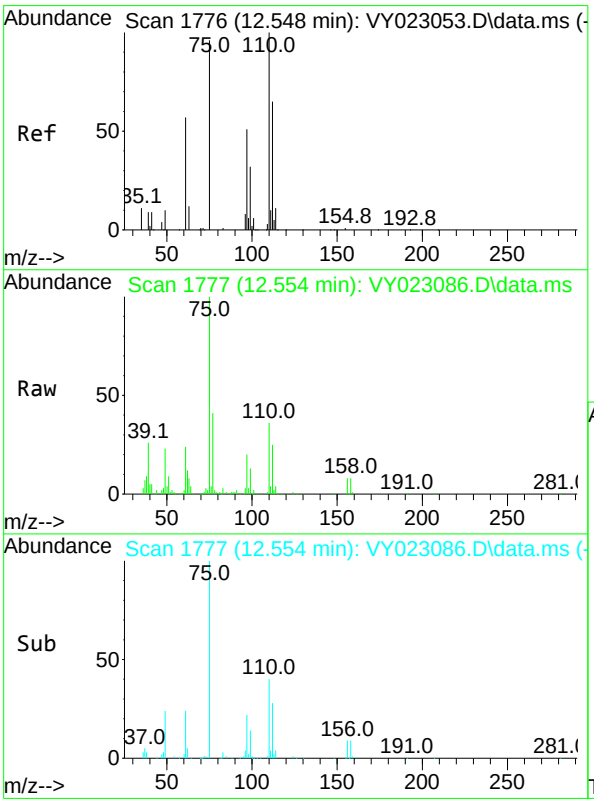
#75
1,1,2,2-Tetrachloroethane
Concen: 17.181 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 83 Resp: 64150

Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.1	15.3
85	68.5	31.8	95.3

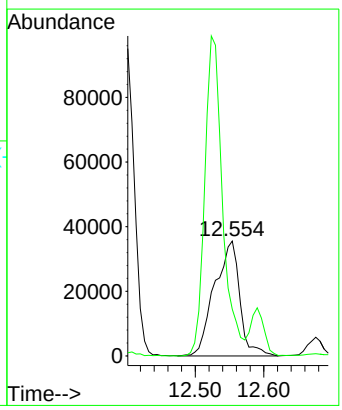


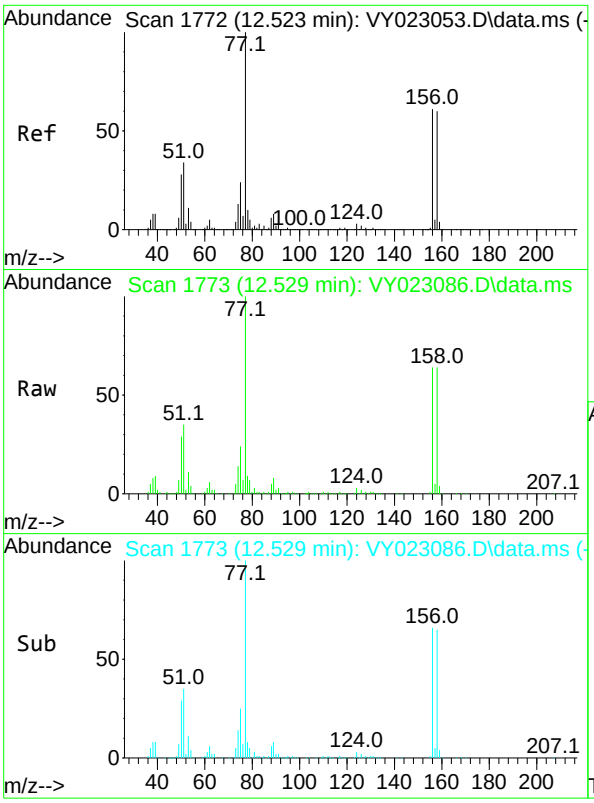


#76
1,2,3-Trichloropropane
Concen: 30.574 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 91421

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



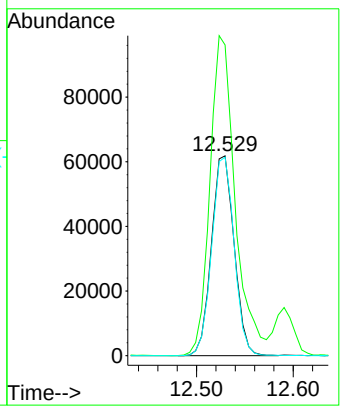


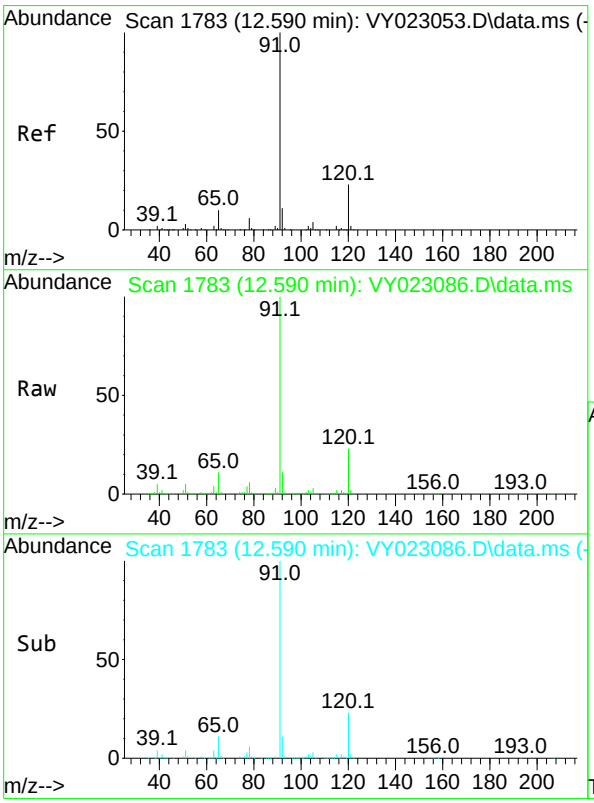
#77
Bromobenzene
Concen: 19.332 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:156 Resp: 100851

Ion	Ratio	Lower	Upper
156	100		
77	178.0	88.1	264.4
158	98.1	48.0	144.0

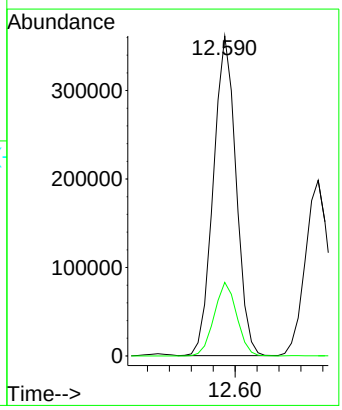


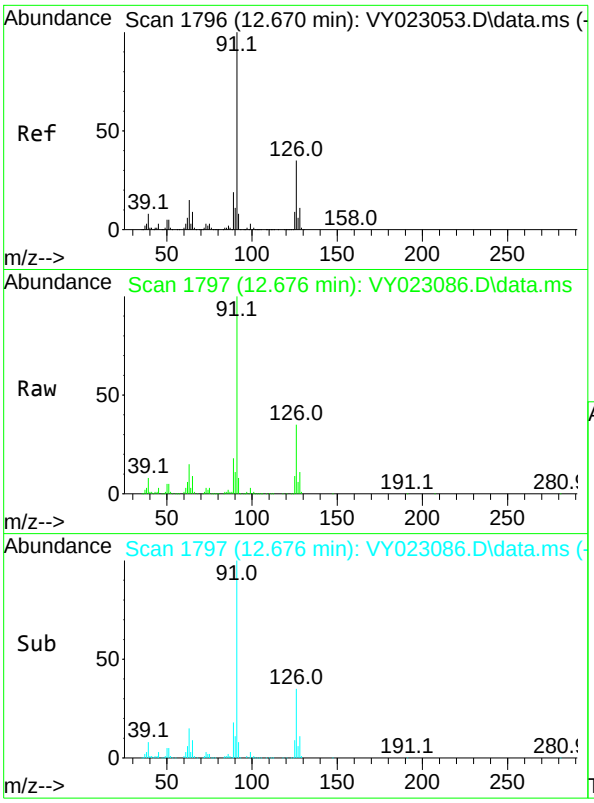


#78
n-propylbenzene
Concen: 20.001 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 520711

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.5	34.5



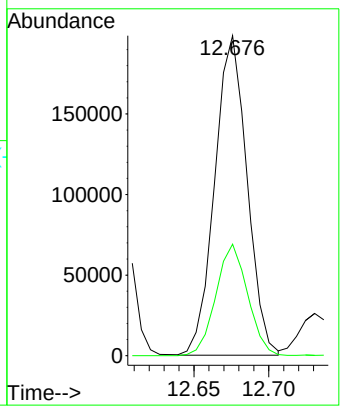


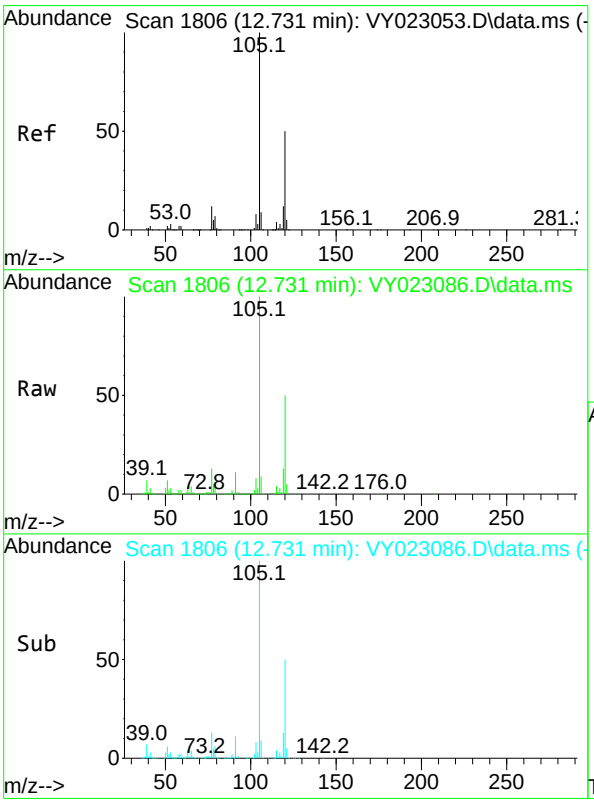
#79
2-Chlorotoluene
Concen: 19.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 91 Resp: 297769

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.4	52.3

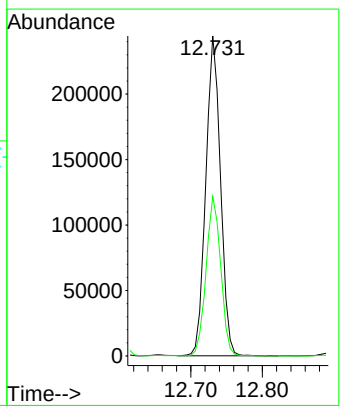


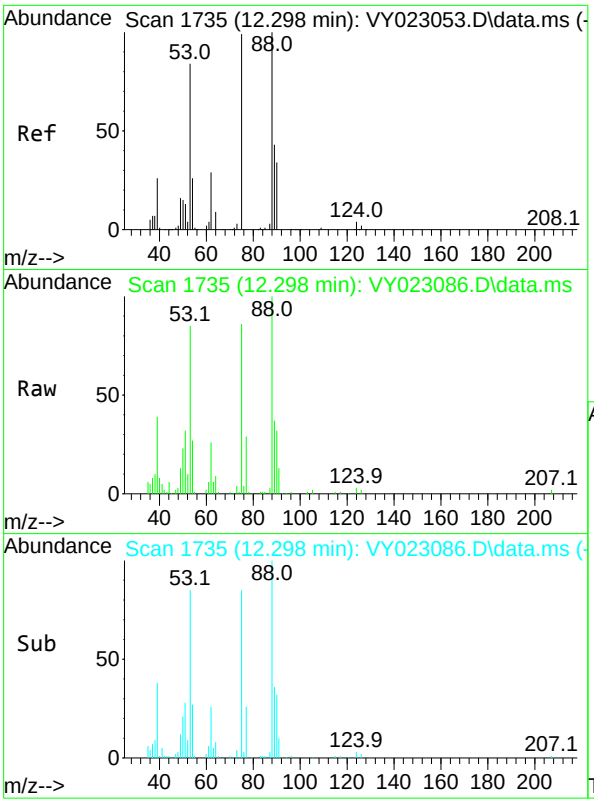


#80
1,3,5-Trimethylbenzene
Concen: 19.731 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 348710

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.8	74.4



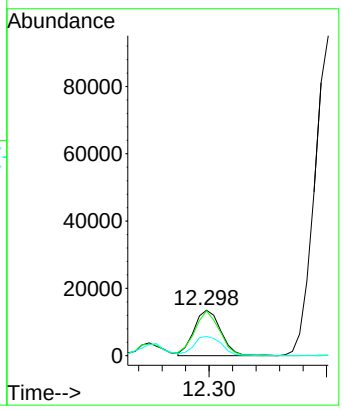


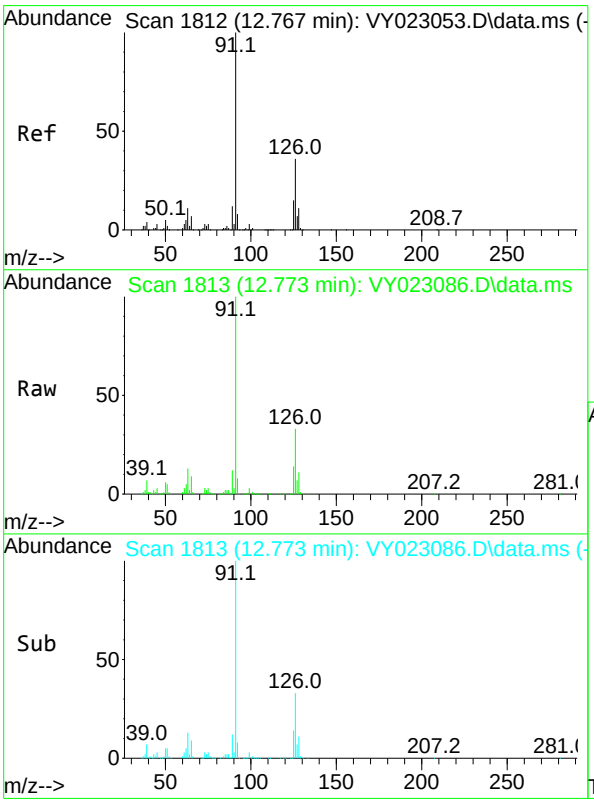
#81
trans-1,4-Dichloro-2-butene
Concen: 17.398 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 75 Resp: 21491

Ion	Ratio	Lower	Upper
75	100		
53	93.8	70.8	106.2
89	43.7	38.1	57.1

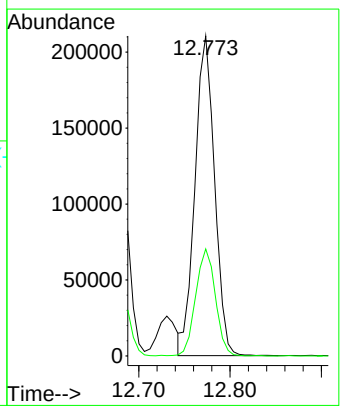


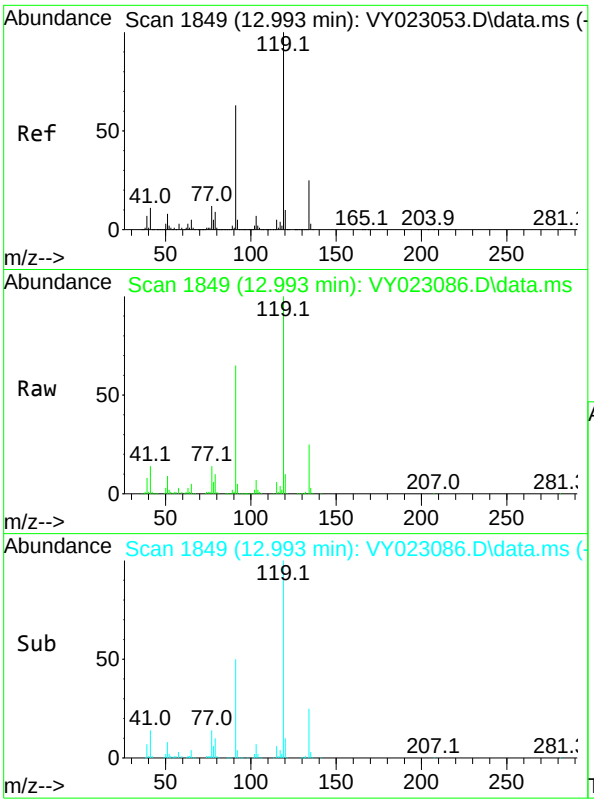


#82
4-Chlorotoluene
Concen: 20.205 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 312655

Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.3	52.0



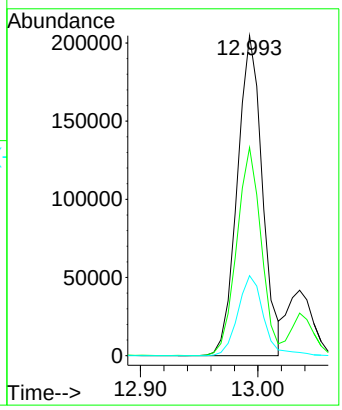


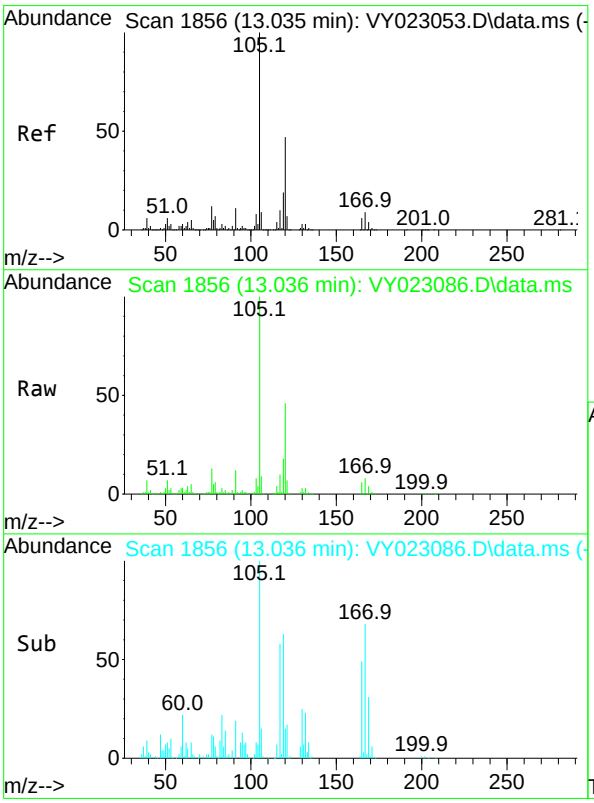
#83
tert-Butylbenzene
Concen: 18.997 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:119 Resp: 303222

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.6	94.8
134	25.8	12.9	38.7

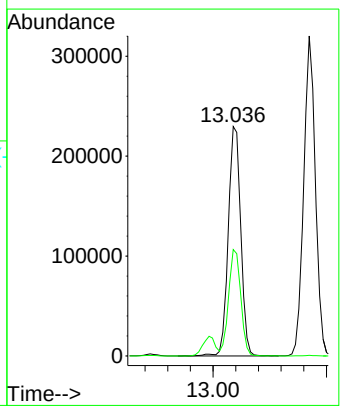


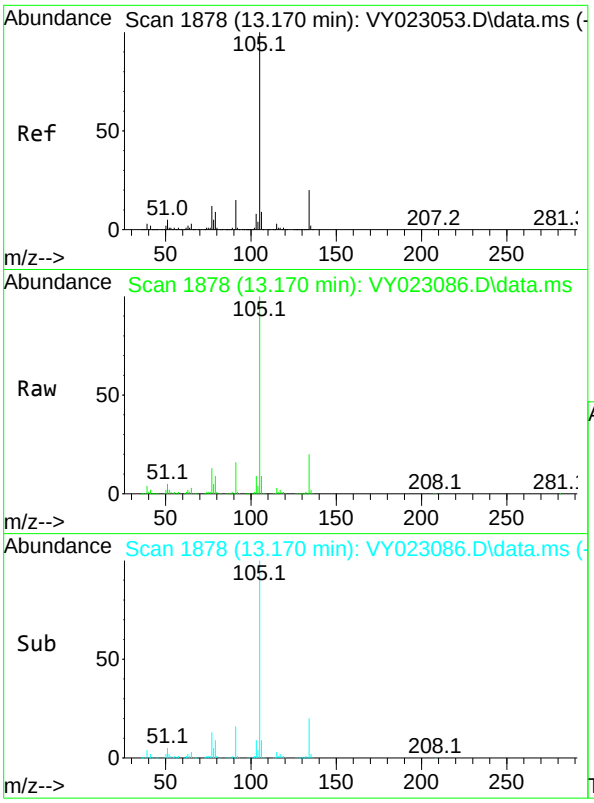


#84
1,2,4-Trimethylbenzene
Concen: 19.952 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 351003

Ion	Ratio	Lower	Upper
105	100		
120	45.2	23.0	69.0



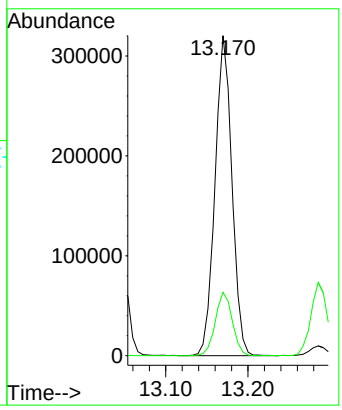


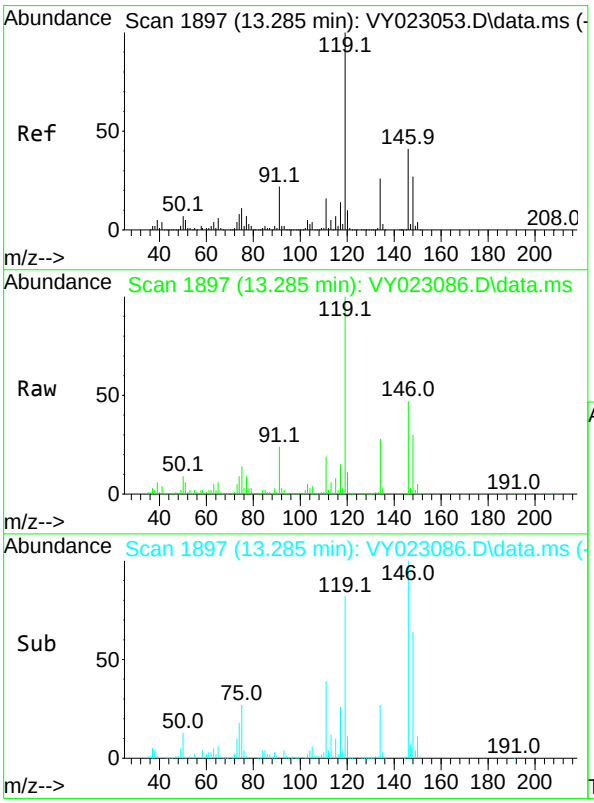
#85
sec-Butylbenzene
Concen: 19.534 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:105 Resp: 458024

Ion	Ratio	Lower	Upper
105	100		
134	19.9	10.2	30.4

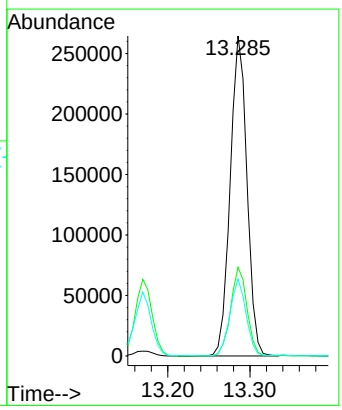


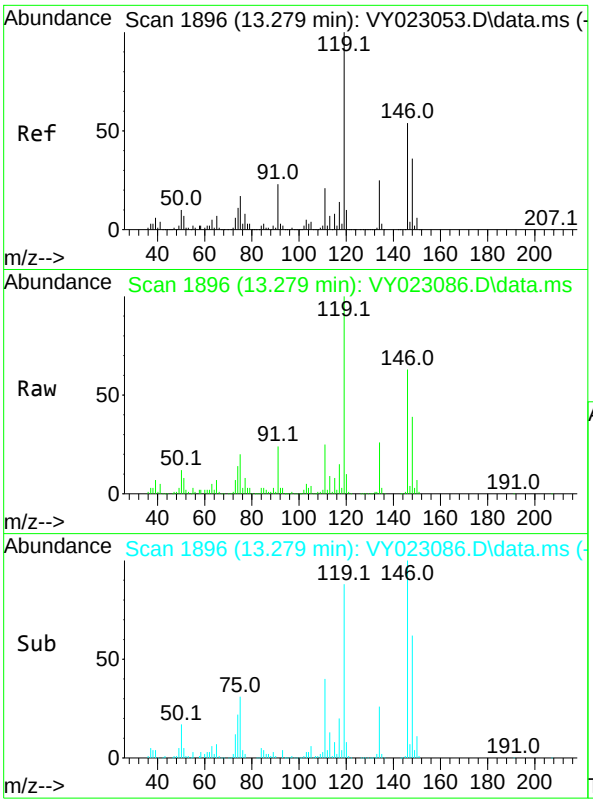


#86
p-Isopropyltoluene
Concen: 19.240 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:119 Resp: 374466

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.2	39.6
91	23.1	11.3	33.8



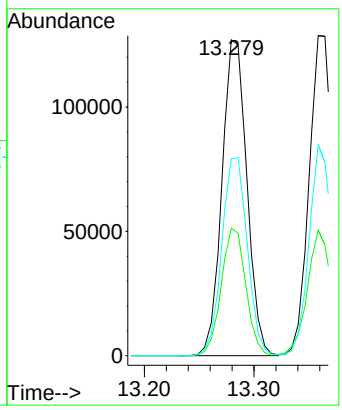


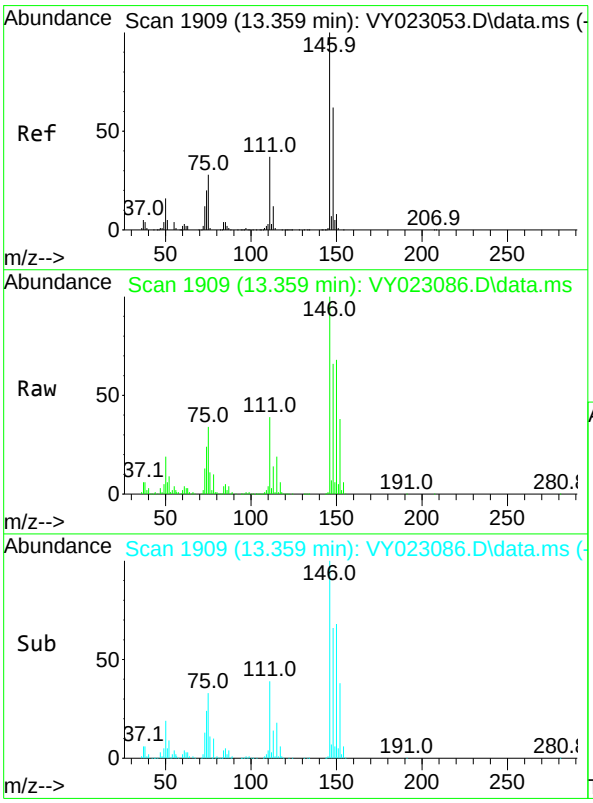
#87
1,3-Dichlorobenzene
Concen: 19.525 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:146 Resp: 200869

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.6	58.7
148	64.2	32.5	97.5

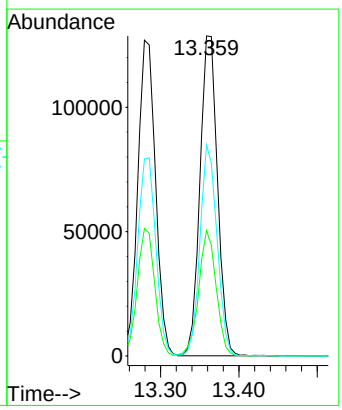


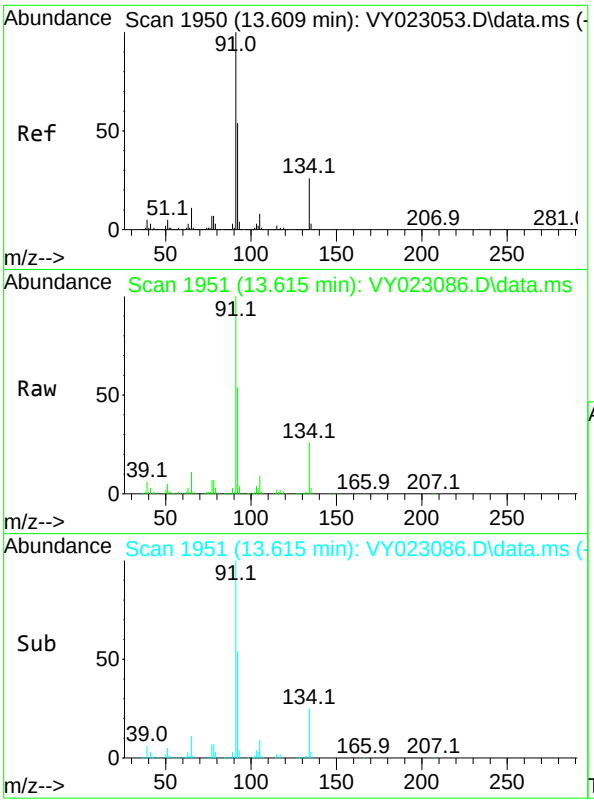


#88
1,4-Dichlorobenzene
Concen: 19.626 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 200293

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.1	57.1
148	64.3	31.6	94.7



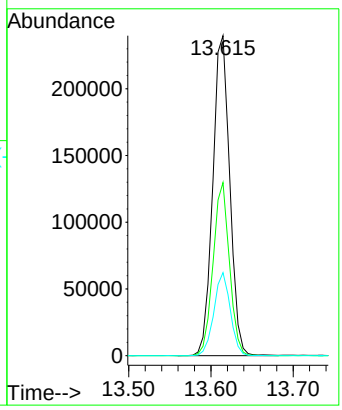


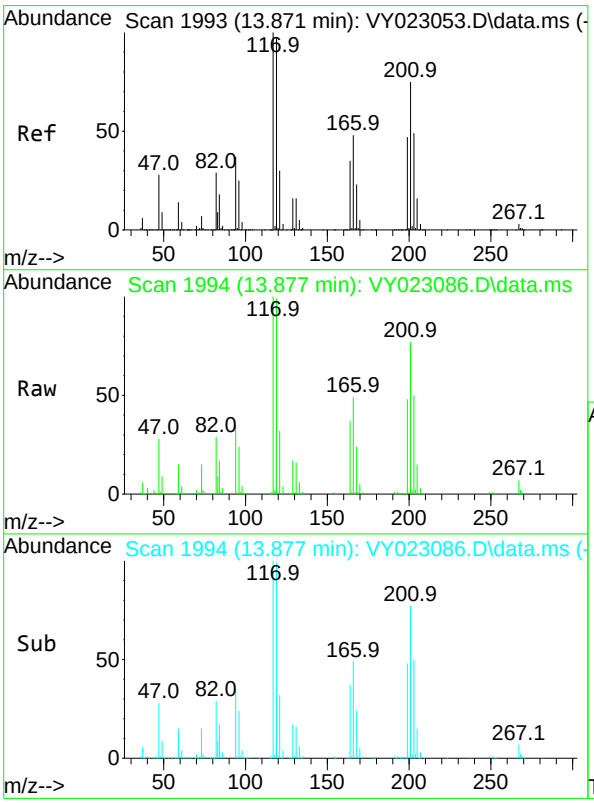
#89
n-Butylbenzene
Concen: 19.289 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion: 91 Resp: 344791

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.7
134	25.1	13.2	39.5

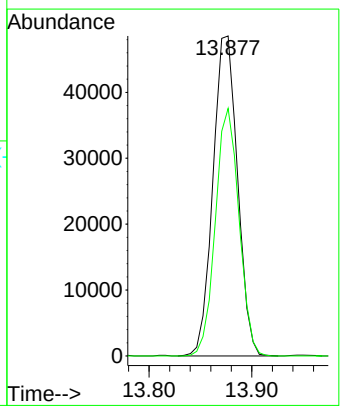


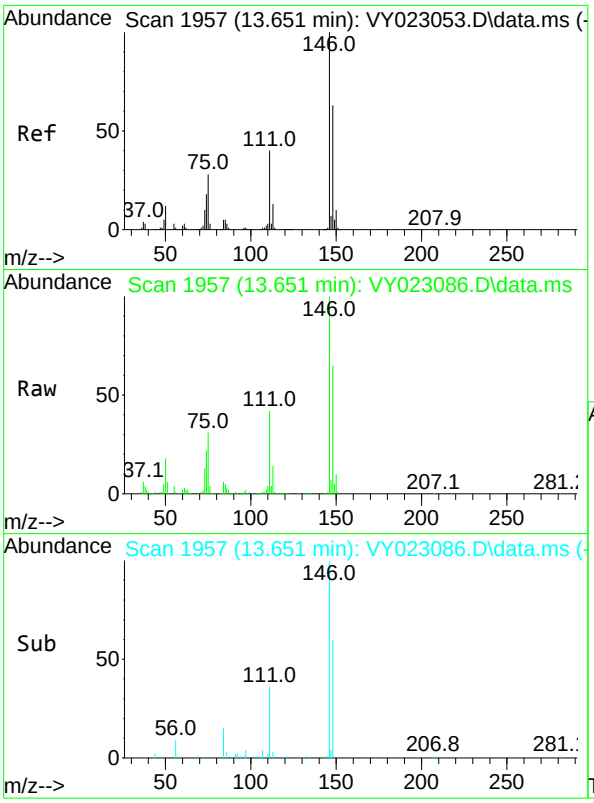


#90
Hexachloroethane
Concen: 20.252 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 80689

Ion	Ratio	Lower	Upper
117	100		
201	74.1	38.4	115.1



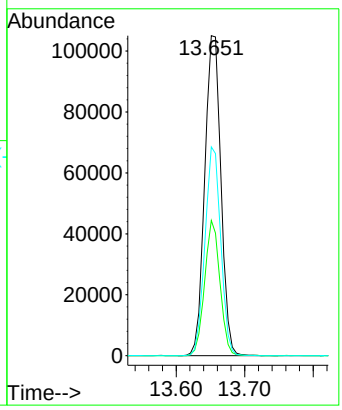


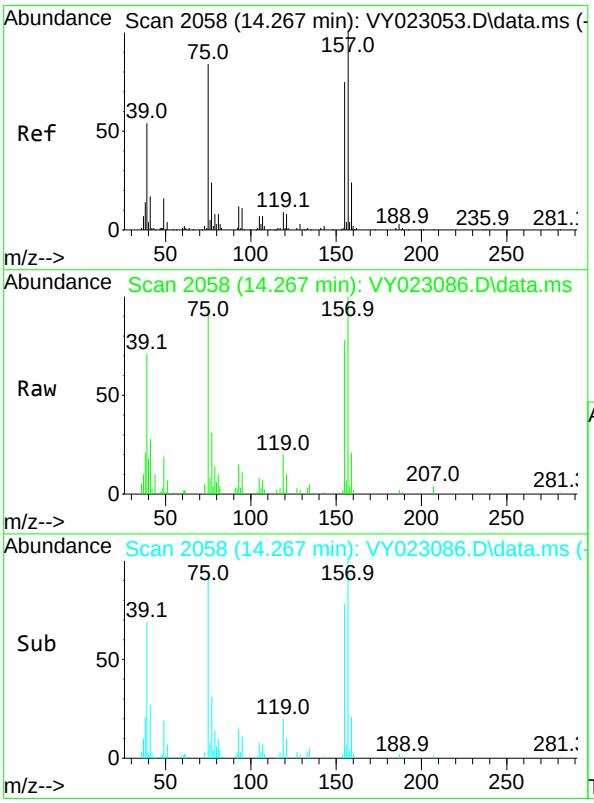
#91
1,2-Dichlorobenzene
Concen: 19.158 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:146 Resp: 172852

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.3	60.8
148	63.6	32.2	96.6

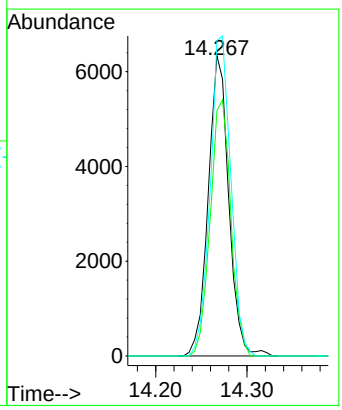


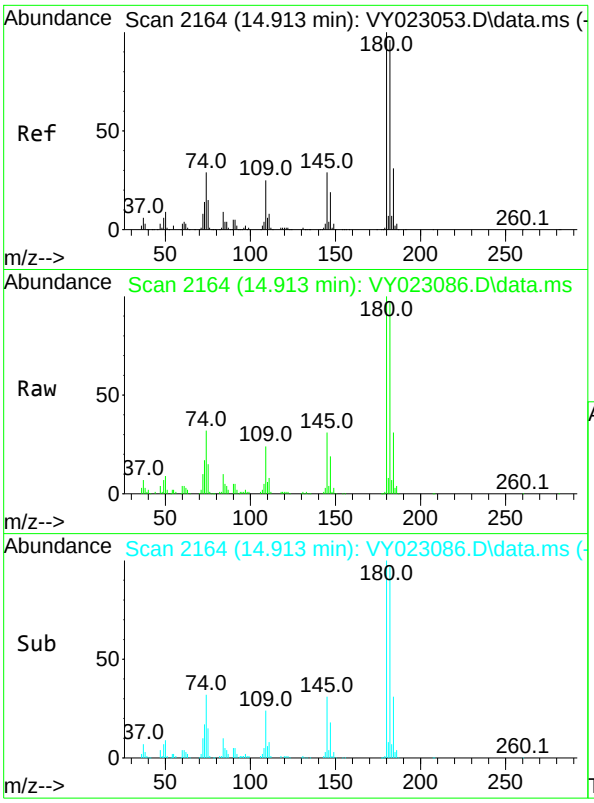


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 9872

Ion	Ratio	Lower	Upper
75	100		
155	85.7	43.9	131.6
157	107.5	57.2	171.6



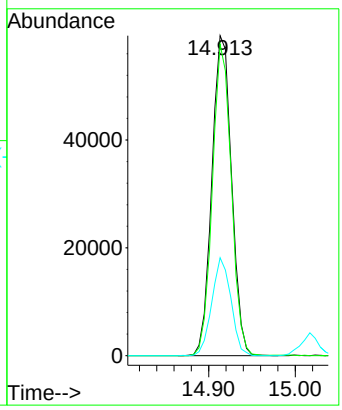


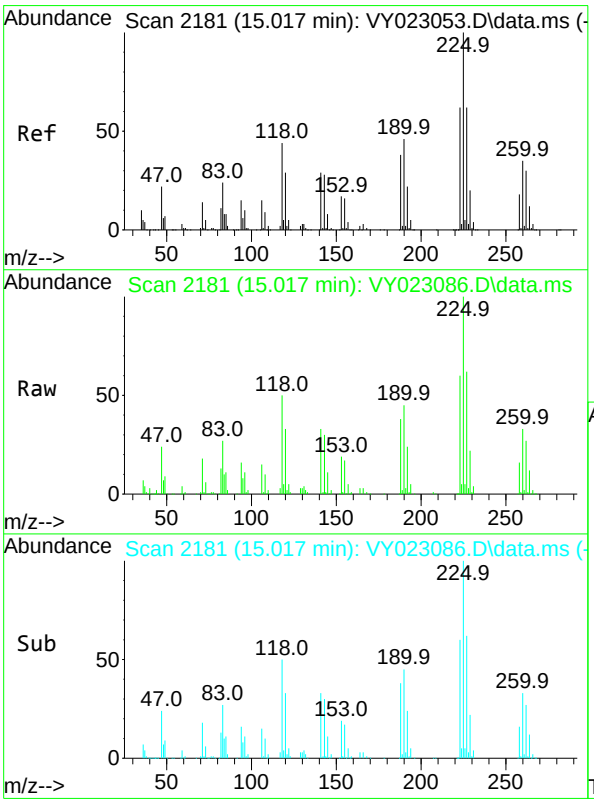
#93
1,2,4-Trichlorobenzene
Concen: 17.602 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:180 Resp: 93915

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.8	140.4
145	29.7	14.4	43.4

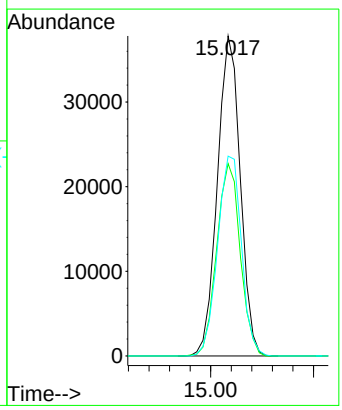


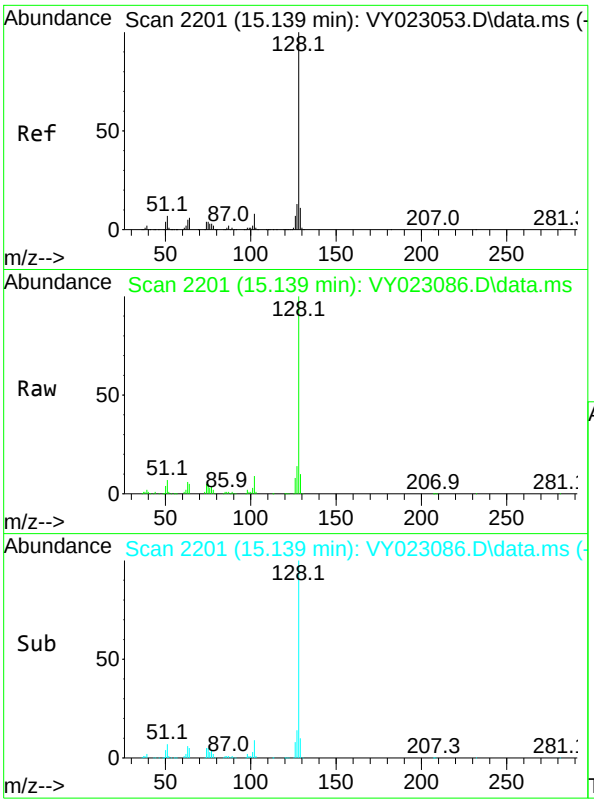


#94
Hexachlorobutadiene
Concen: 18.595 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:225 Resp: 58299

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.3	93.8
227	65.2	31.5	94.5



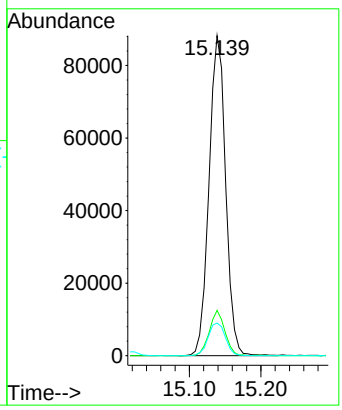


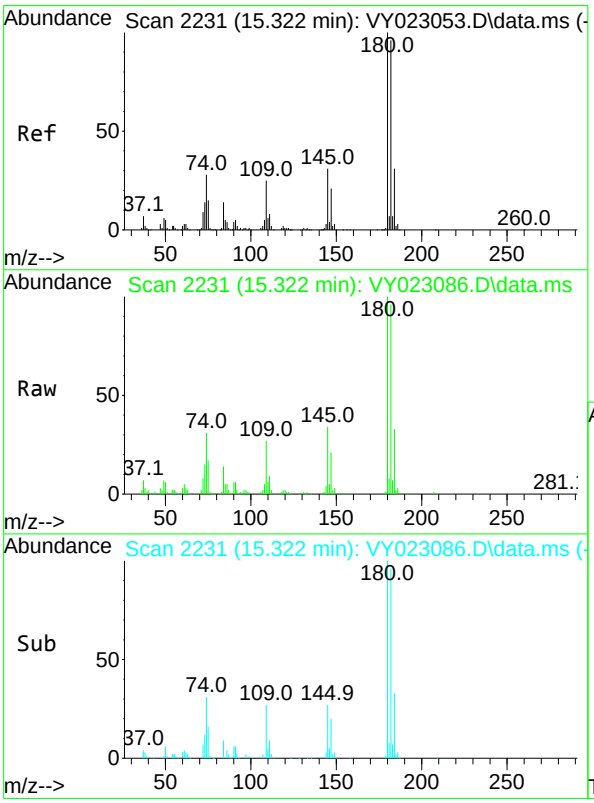
#95
Naphthalene
Concen: 15.638 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Instrument :
MSVOA_Y
ClientSampleId :
VY0814SBS01

Tgt Ion:128 Resp: 142271

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.7	9.0	13.4

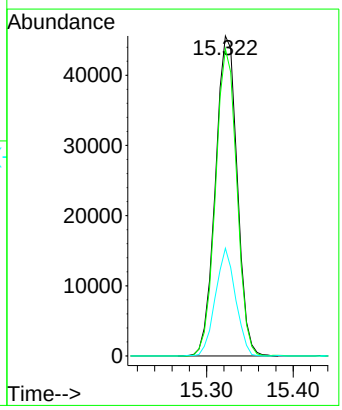




#96
1,2,3-Trichlorobenzene
Concen: 17.308 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:180 Resp: 79576

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.9	143.7
145	31.2	15.9	47.7



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 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	416366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	692312	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	629047	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	327747	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	213894	53.901	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.800%			
35) Dibromofluoromethane	7.634	113	209862	50.660	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.320%			
50) Toluene-d8	10.103	98	824760	50.964	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.920%			
62) 4-Bromofluorobenzene	12.402	95	268864	51.660	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 103.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	127230	37.436	ug/l	98
3) Chloromethane	2.068	50	278602	50.612	ug/l	100
4) Vinyl Chloride	2.202	62	362671	53.299	ug/l	100
5) Bromomethane	2.592	94	284864	56.056	ug/l	100
6) Chloroethane	2.733	64	256493	56.698	ug/l	99
7) Trichlorofluoromethane	3.050	101	393227	47.526	ug/l	98
8) Diethyl Ether	3.458	74	102502	46.826	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	185323	45.401	ug/l	99
10) Methyl Iodide	4.001	142	230343	52.294	ug/l	98
11) Tert butyl alcohol	4.866	59	59656	219.404	ug/l	99
12) 1,1-Dichloroethene	3.787	96	186960	46.597	ug/l	97
13) Acrolein	3.653	56	59794	150.160	ug/l	99
14) Allyl chloride	4.385	41	270891	45.884	ug/l	97
15) Acrylonitrile	5.055	53	214746	241.303	ug/l	99
16) Acetone	3.873	43	156746	182.326	ug/l	98
17) Carbon Disulfide	4.104	76	605160	46.257	ug/l	99
18) Methyl Acetate	4.385	43	132078	51.627	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	513333	49.373	ug/l	100
20) Methylene Chloride	4.616	84	226871	50.830	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	219760	48.739	ug/l	100
22) Diisopropyl ether	6.019	45	647978	50.509	ug/l	98
23) Vinyl Acetate	5.958	43	1688350	238.003	ug/l	99
24) 1,1-Dichloroethane	5.915	63	397112	50.629	ug/l	99
25) 2-Butanone	6.896	43	257717	220.416	ug/l	98
26) 2,2-Dichloropropane	6.884	77	282620	41.758	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	262868	50.429	ug/l	99
28) Bromochloromethane	7.244	49	156731	50.366	ug/l	99
29) Tetrahydrofuran	7.262	42	170771	235.626	ug/l	99
30) Chloroform	7.421	83	420476	51.980	ug/l	96
31) Cyclohexane	7.701	56	325108	43.985	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	359591	50.099	ug/l	98
36) 1,1-Dichloropropene	7.835	75	290479	47.183	ug/l	99
37) Ethyl Acetate	6.982	43	118629	45.871	ug/l	98
38) Carbon Tetrachloride	7.817	117	315347	47.160	ug/l	97
39) Methylcyclohexane	9.109	83	372844	45.989	ug/l	98
40) Benzene	8.079	78	942603	49.676	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 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	63879	42.799	ug/l		93
42) 1,2-Dichloroethane	8.158	62	245917	49.831	ug/l		99
43) Isopropyl Acetate	8.195	43	245206	46.911	ug/l		100
44) Trichloroethene	8.866	130	232571	47.429	ug/l		99
45) 1,2-Dichloropropane	9.140	63	219128	50.190	ug/l		98
46) Dibromomethane	9.231	93	125840	50.217	ug/l		97
47) Bromodichloromethane	9.420	83	330836	51.308	ug/l		98
48) Methyl methacrylate	9.219	41	116562	46.602	ug/l		95
49) 1,4-Dioxane	9.225	88	28202	959.813	ug/l		93
51) 4-Methyl-2-Pentanone	9.993	43	648196	240.407	ug/l		100
52) Toluene	10.170	92	608495	50.491	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	280629	48.061	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	333217	48.260	ug/l		98
55) 1,1,2-Trichloroethane	10.567	97	164684	49.113	ug/l		97
56) Ethyl methacrylate	10.438	69	211730	49.346	ug/l		98
57) 1,3-Dichloropropane	10.713	76	280123	49.259	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	522597	258.207	ug/l		100
59) 2-Hexanone	10.756	43	429008	233.670	ug/l		99
60) Dibromochloromethane	10.908	129	220549	49.847	ug/l		99
61) 1,2-Dibromoethane	11.012	107	154512	49.026	ug/l		100
64) Tetrachloroethene	10.646	164	264997	47.178	ug/l		98
65) Chlorobenzene	11.438	112	655836	48.335	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.511	131	226496	49.184	ug/l		99
67) Ethyl Benzene	11.518	91	1138907	48.775	ug/l		99
68) m/p-Xylenes	11.627	106	910415	99.829	ug/l		99
69) o-Xylene	11.950	106	431382	50.504	ug/l		99
70) Styrene	11.963	104	723332	51.783	ug/l		99
71) Bromoform	12.127	173	127183	47.255	ug/l		98
73) Isopropylbenzene	12.249	105	1085768	46.938	ug/l		100
74) N-amyl acetate	12.066	43	218818	44.606	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.499	83	180905	45.802	ug/l		99
76) 1,2,3-Trichloropropane	12.548	75	236792	74.861	ug/l	#	100
77) Bromobenzene	12.530	156	254766	46.165	ug/l		98
78) n-propylbenzene	12.591	91	1321560	47.987	ug/l		100
79) 2-Chlorotoluene	12.676	91	749983	47.529	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	901239	48.207	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	51968	39.770	ug/l		94
82) 4-Chlorotoluene	12.773	91	794254	48.521	ug/l		99
83) tert-Butylbenzene	12.993	119	794810	47.072	ug/l		99
84) 1,2,4-Trimethylbenzene	13.036	105	915823	49.211	ug/l		100
85) sec-Butylbenzene	13.170	105	1185899	47.812	ug/l		100
86) p-Isopropyltoluene	13.286	119	997638	48.457	ug/l		99
87) 1,3-Dichlorobenzene	13.279	146	521768	47.944	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	506066	46.877	ug/l		100
89) n-Butylbenzene	13.615	91	922027	48.761	ug/l		98
90) Hexachloroethane	13.877	117	202066	47.944	ug/l		97
91) 1,2-Dichlorobenzene	13.651	146	449904	47.139	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	27986	45.509	ug/l		94
93) 1,2,4-Trichlorobenzene	14.913	180	252540	44.744	ug/l		98
94) Hexachlorobutadiene	15.017	225	143621	43.304	ug/l		99
95) Naphthalene	15.139	128	443360	46.067	ug/l		99
96) 1,2,3-Trichlorobenzene	15.322	180	218352	44.896	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 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

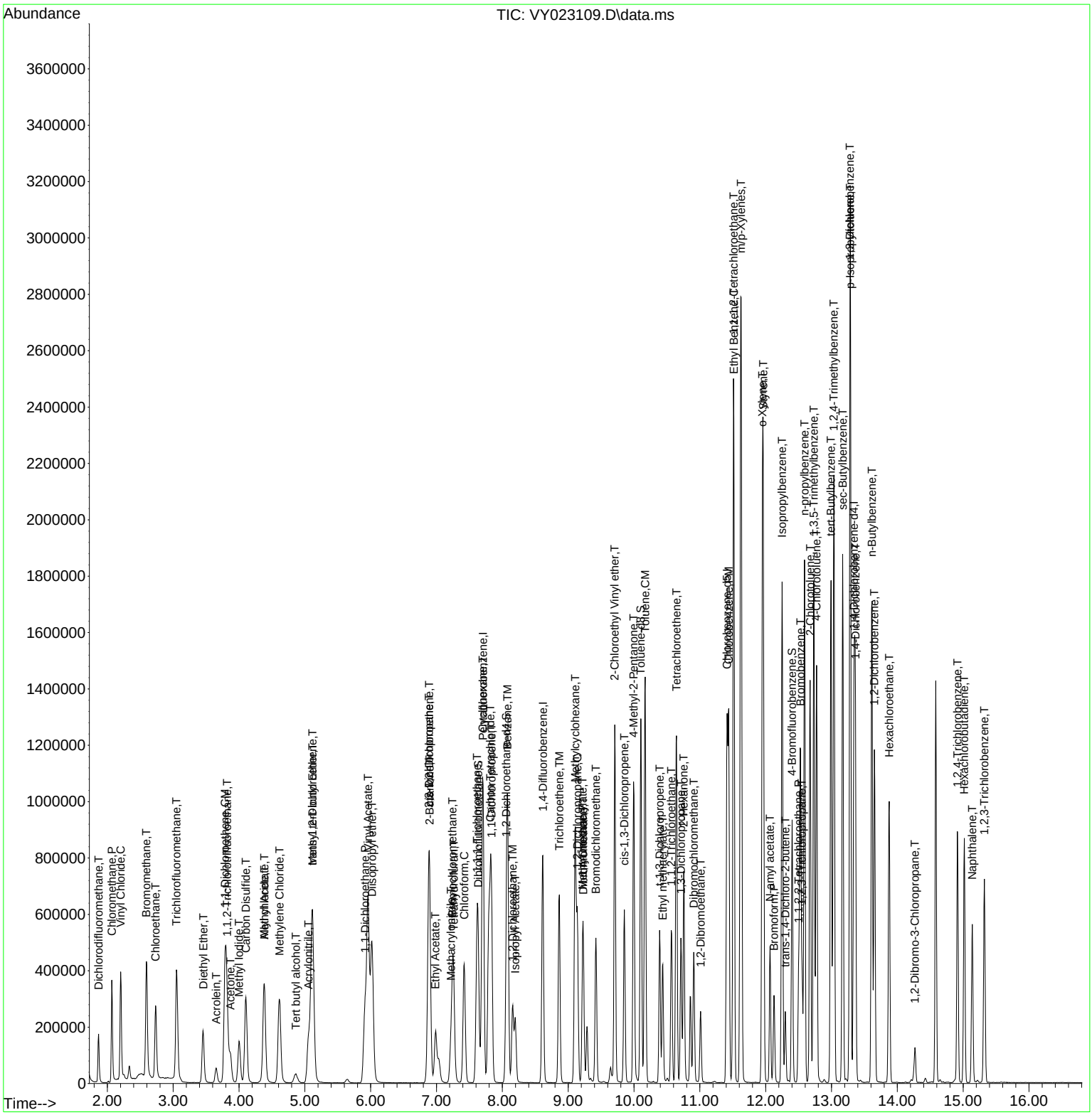
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

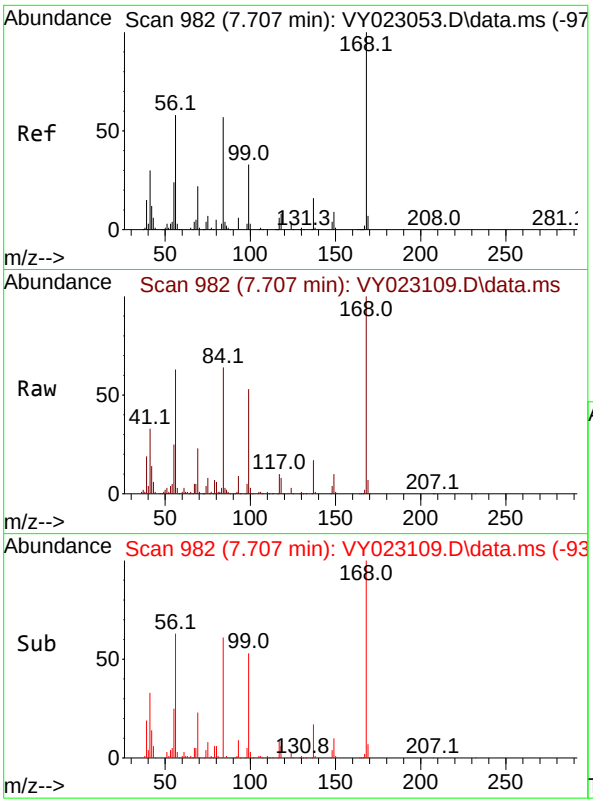
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 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



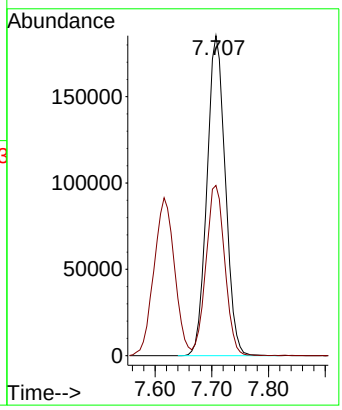


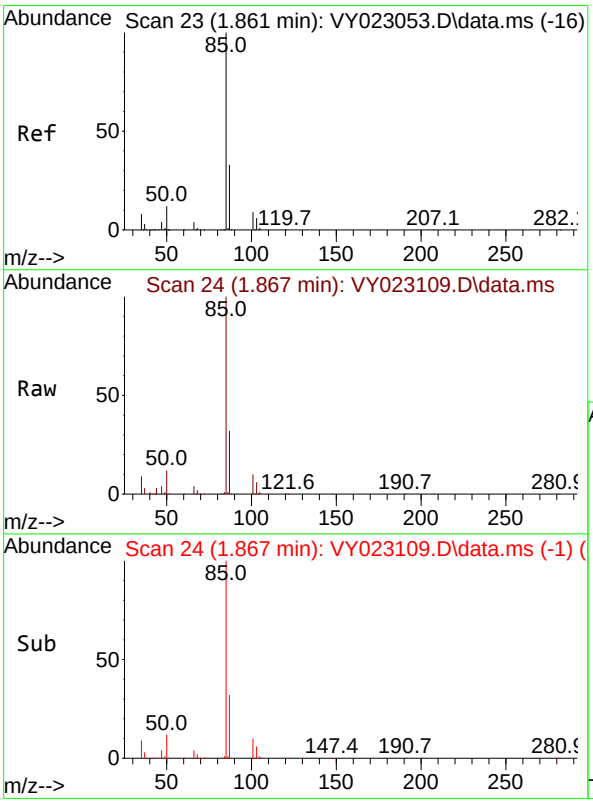
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 416366

Ion	Ratio	Lower	Upper
168	100		
99	53.2	42.8	64.2

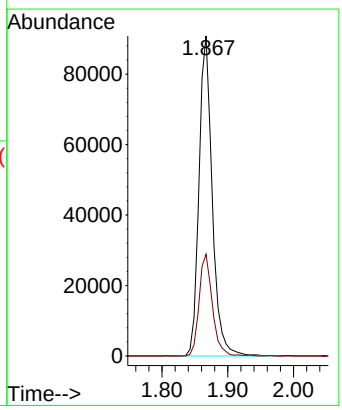


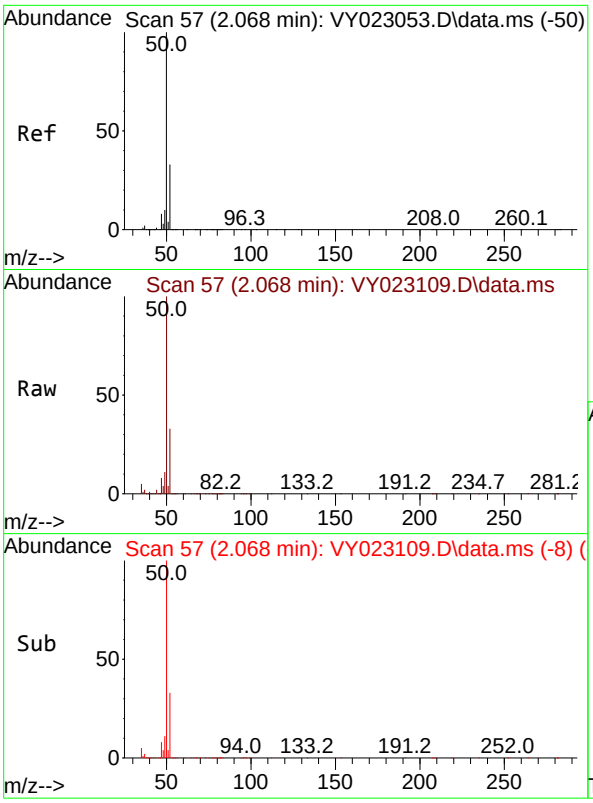


#2
Dichlorodifluoromethane
Concen: 37.436 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 85 Resp: 127230

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.6	49.8



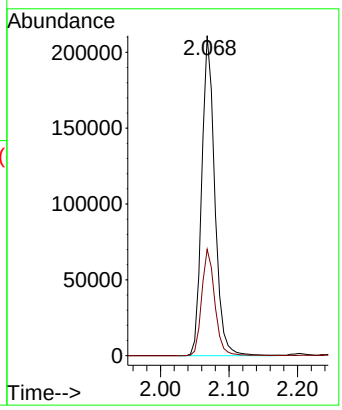


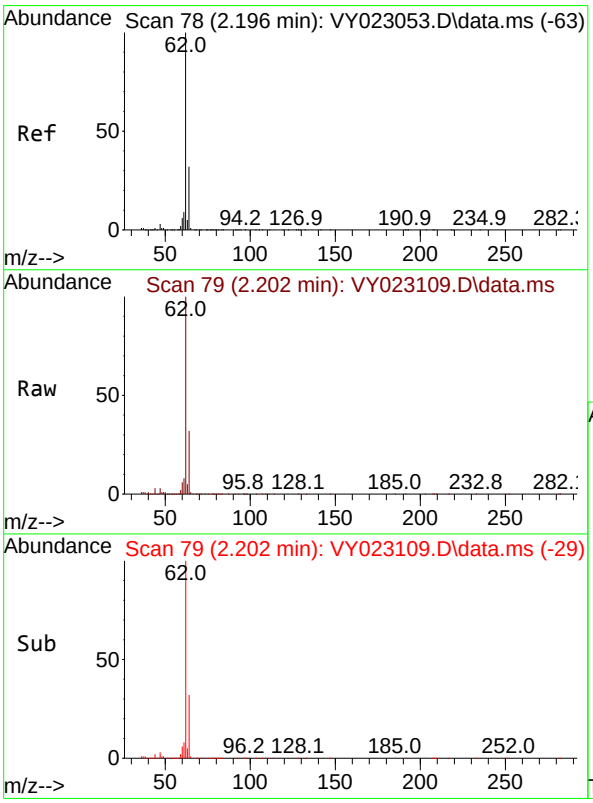
#3
Chloromethane
Concen: 50.612 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 278602

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.7	40.1

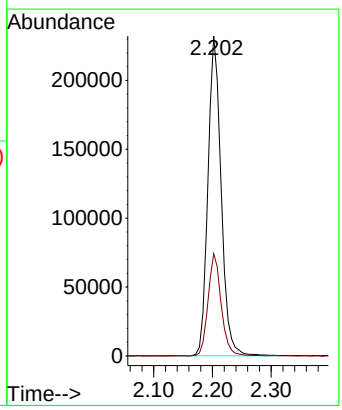


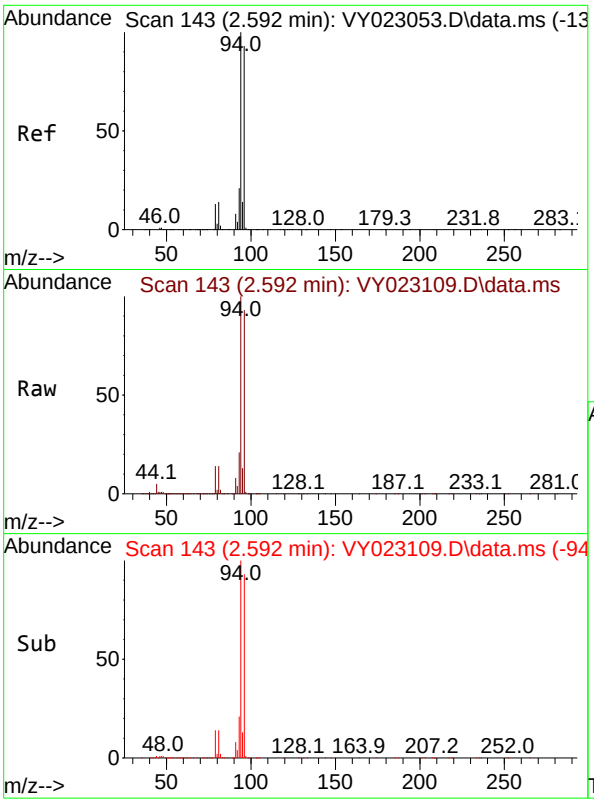


#4
Vinyl Chloride
Concen: 53.299 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 362671

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.4	38.0



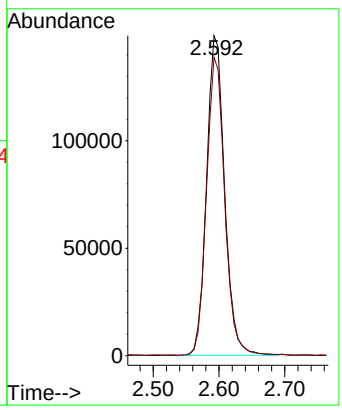


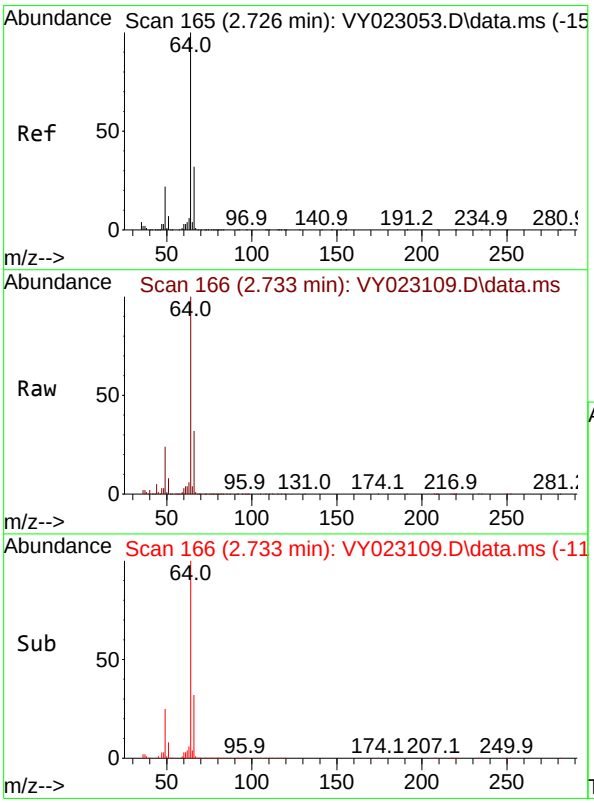
#5
Bromomethane
Concen: 56.056 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 284864

Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.6	112.0

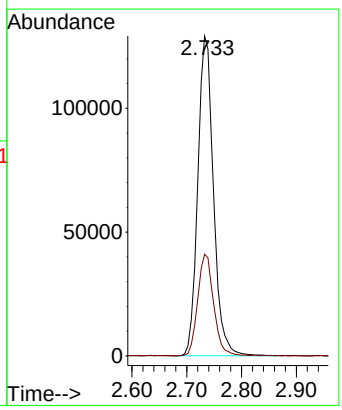


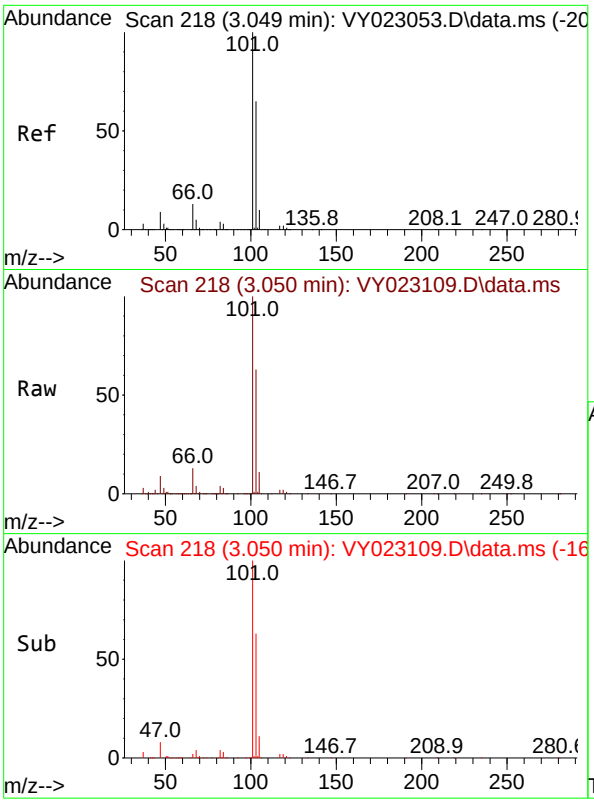


#6
Chloroethane
Concen: 56.698 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 64 Resp: 256493

Ion	Ratio	Lower	Upper
64	100		
66	31.8	25.8	38.6



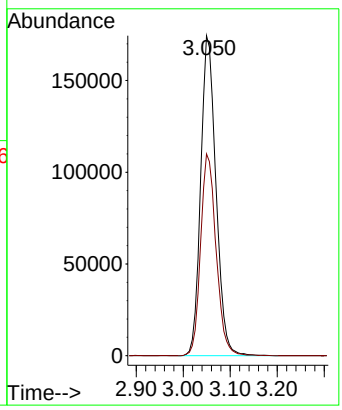


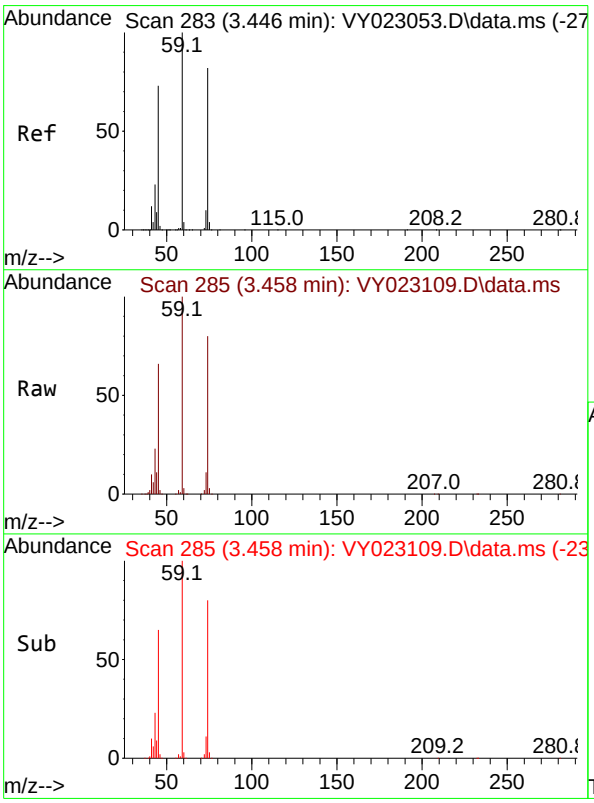
#7
Trichlorofluoromethane
Concen: 47.526 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 393227

Ion	Ratio	Lower	Upper
101	100		
103	63.0	51.9	77.9

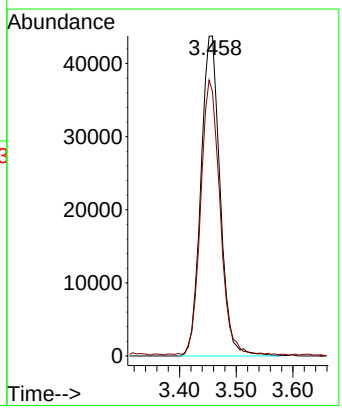


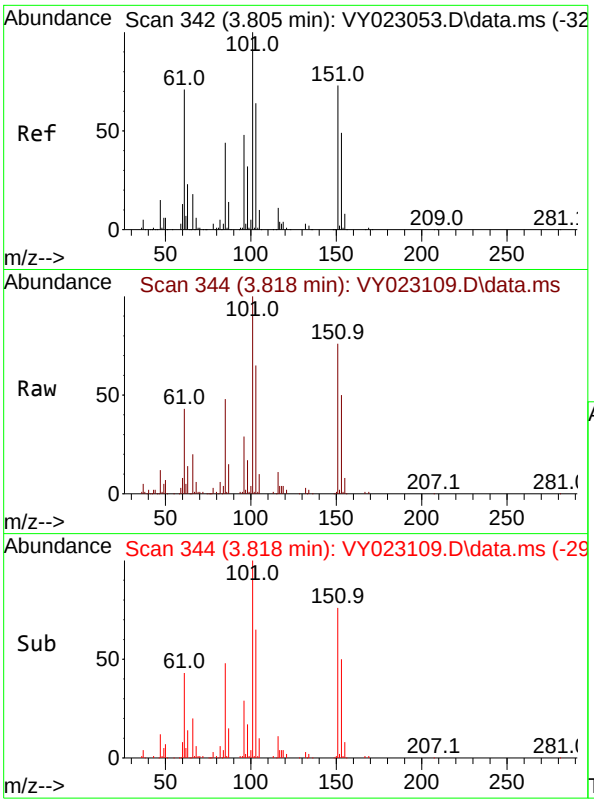


#8
Diethyl Ether
Concen: 46.826 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 74 Resp: 102502

Ion	Ratio	Lower	Upper
74	100		
45	86.7	44.4	133.2



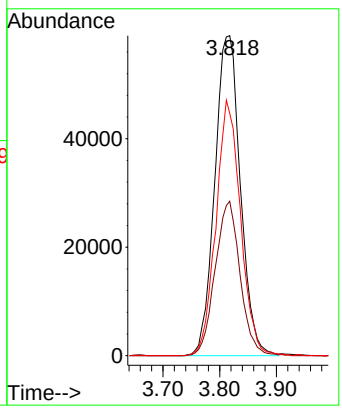


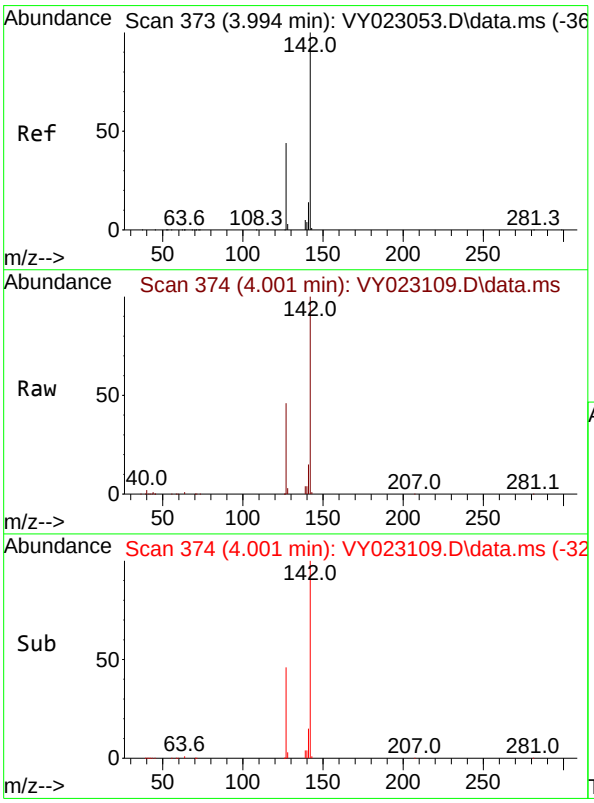
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.401 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 185323

Ion	Ratio	Lower	Upper
101	100		
85	47.0	36.3	54.5
151	76.6	61.5	92.3

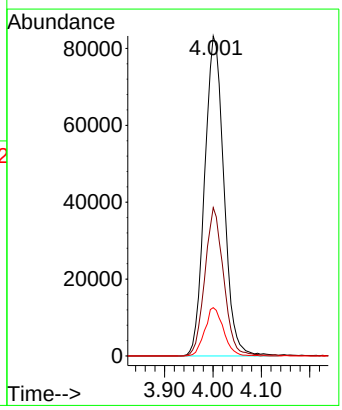


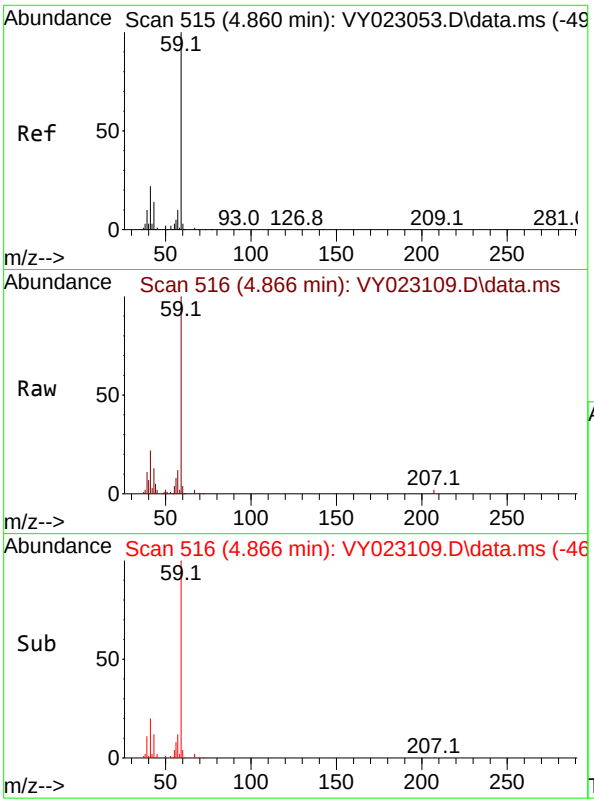


#10
Methyl Iodide
Concen: 52.294 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:142 Resp: 230343

Ion	Ratio	Lower	Upper
142	100		
127	45.3	34.9	52.3
141	14.7	11.3	16.9



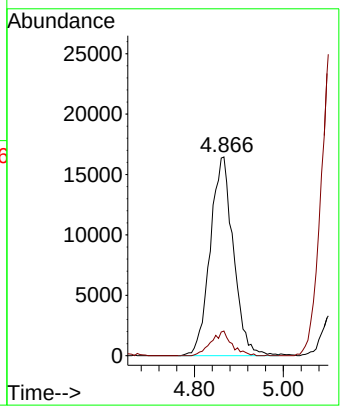


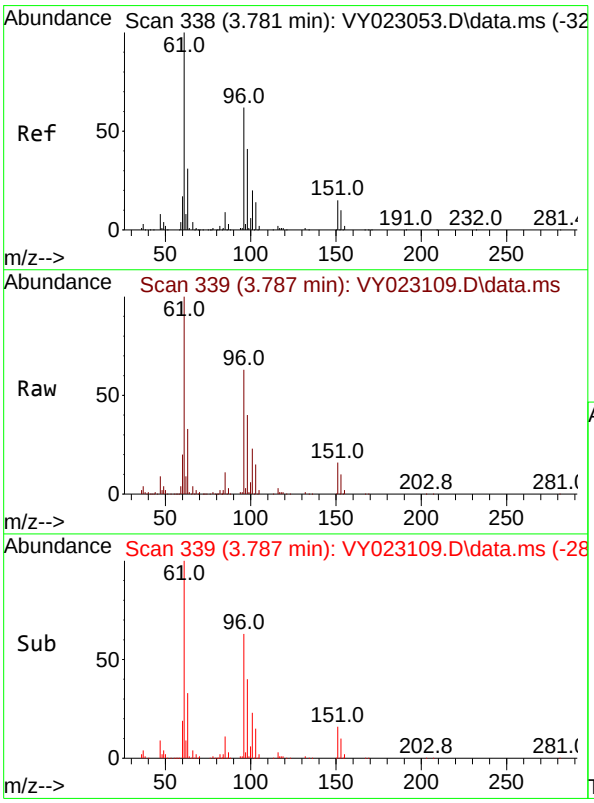
#11
Tert butyl alcohol
Concen: 219.404 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 59656

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0

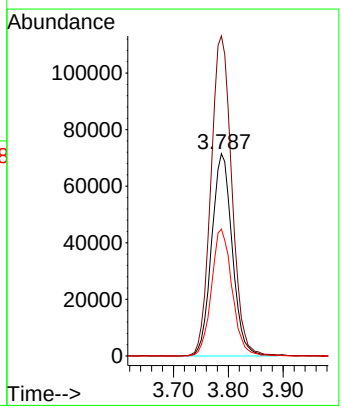


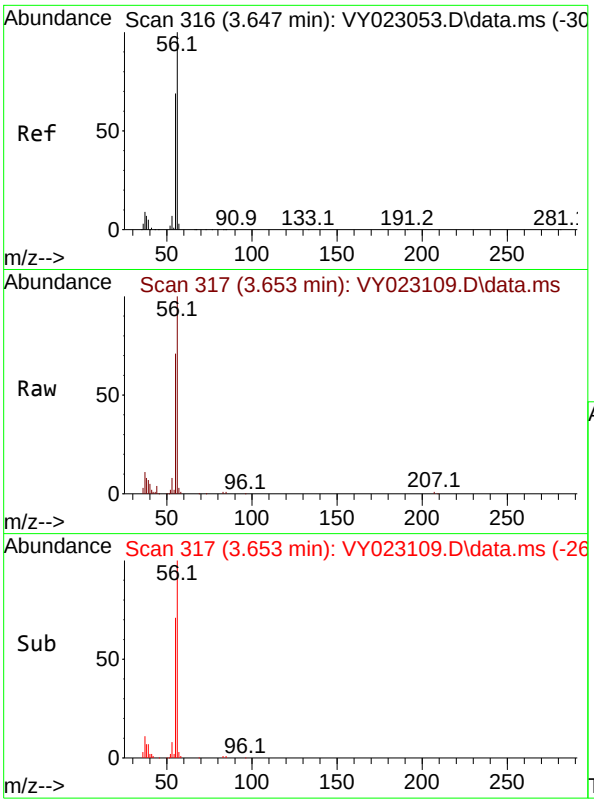


#12
1,1-Dichloroethene
Concen: 46.597 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 96 Resp: 186960

Ion	Ratio	Lower	Upper
96	100		
61	158.3	129.4	194.2
98	62.7	52.8	79.2



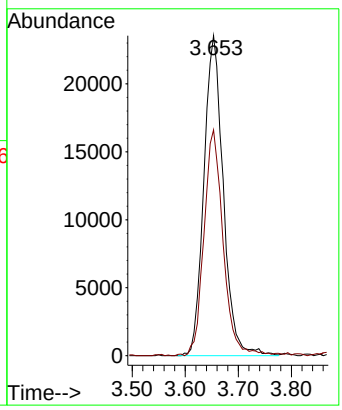


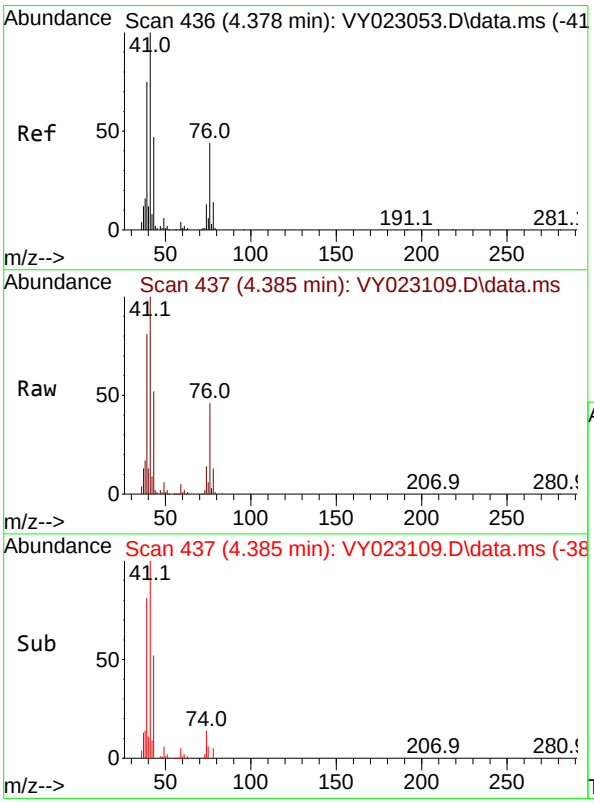
#13
Acrolein
Concen: 150.160 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 59794

Ion	Ratio	Lower	Upper
56	100		
55	69.6	55.2	82.8

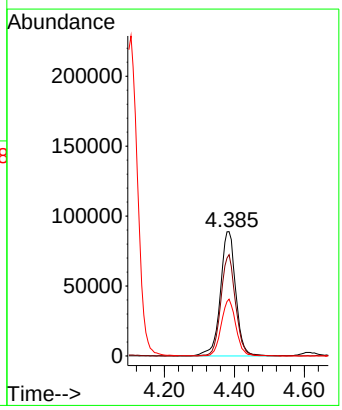


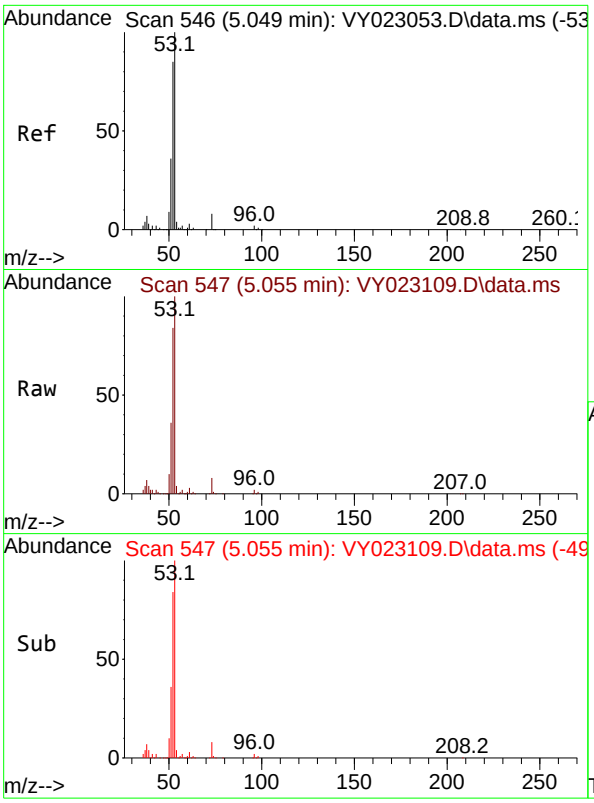


#14
Allyl chloride
Concen: 45.884 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 270891

Ion	Ratio	Lower	Upper
41	100		
39	78.0	59.8	89.6
76	43.3	33.7	50.5



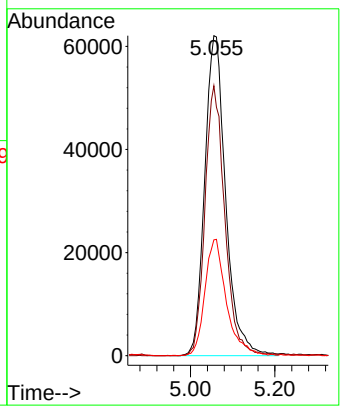


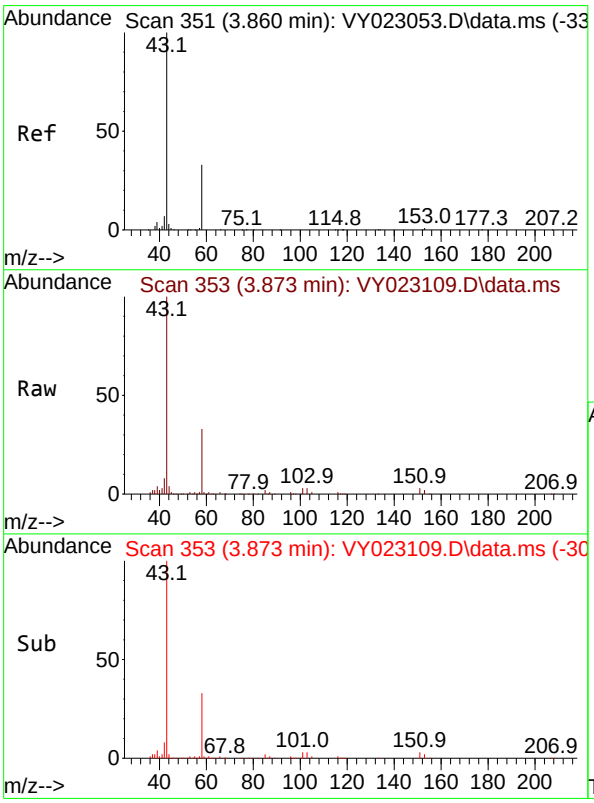
#15
Acrylonitrile
Concen: 241.303 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 214746

Ion	Ratio	Lower	Upper
53	100		
52	80.1	65.3	97.9
51	37.3	29.5	44.3

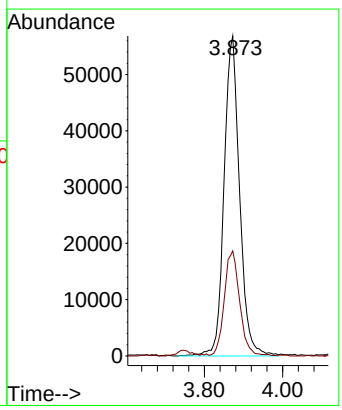


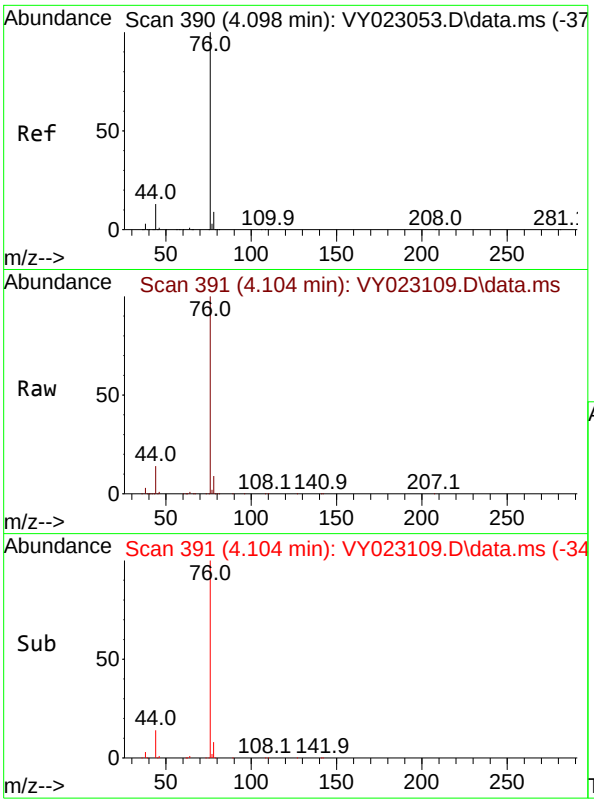


#16
Acetone
Concen: 182.326 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 156746

Ion	Ratio	Lower	Upper
43	100		
58	32.6	27.1	40.7



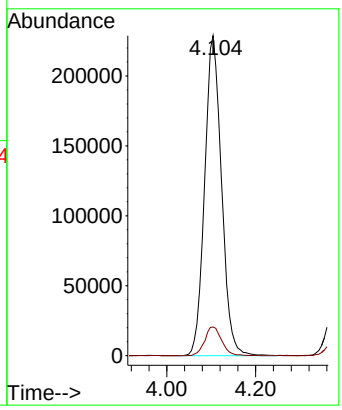


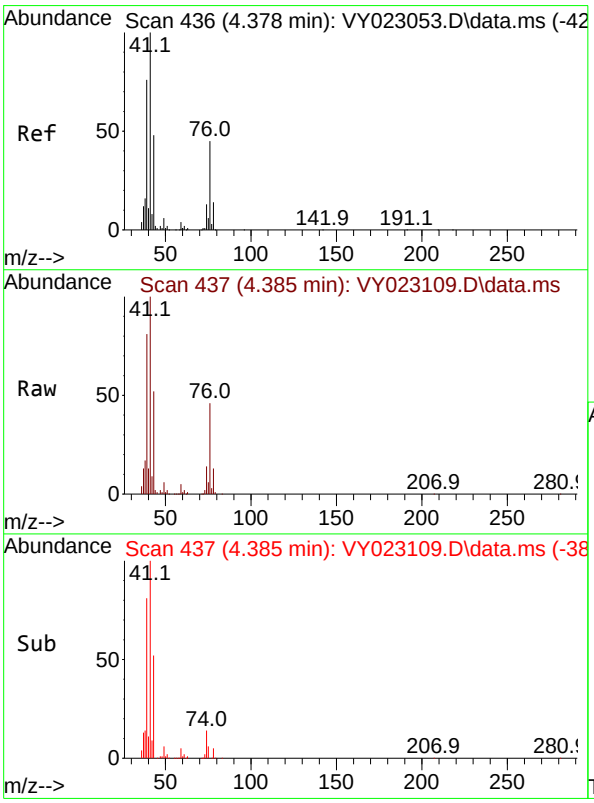
#17
Carbon Disulfide
Concen: 46.257 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 605160

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.2

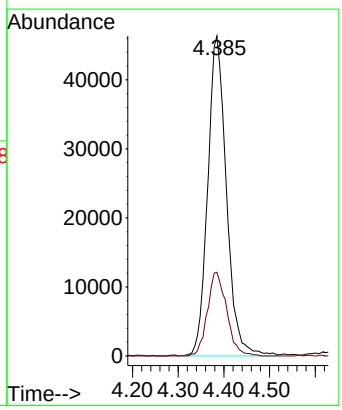


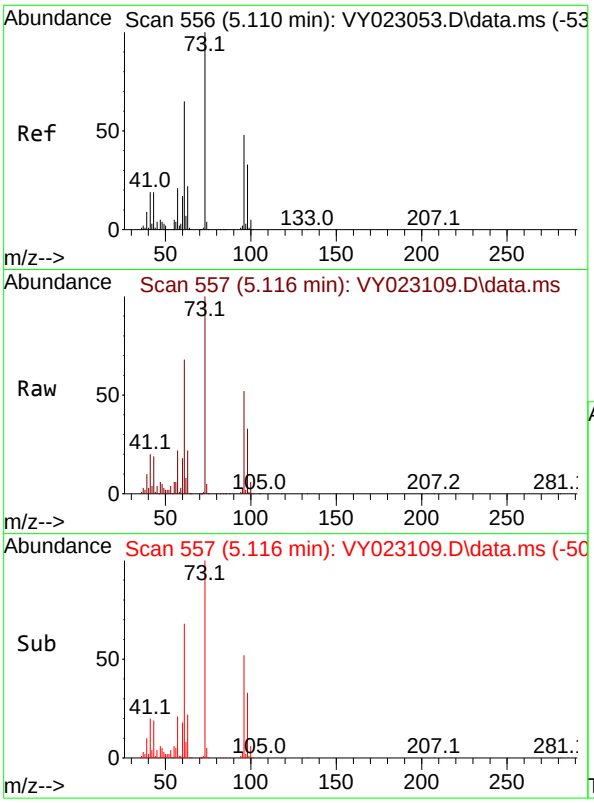


#18
Methyl Acetate
Concen: 51.627 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 132078

Ion	Ratio	Lower	Upper
43	100		
74	26.9	21.2	31.8



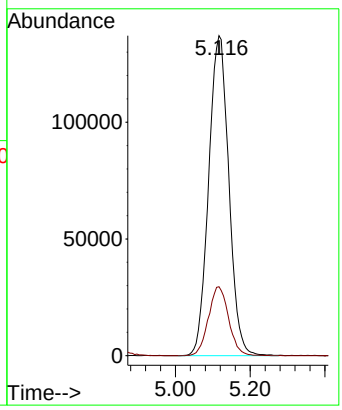


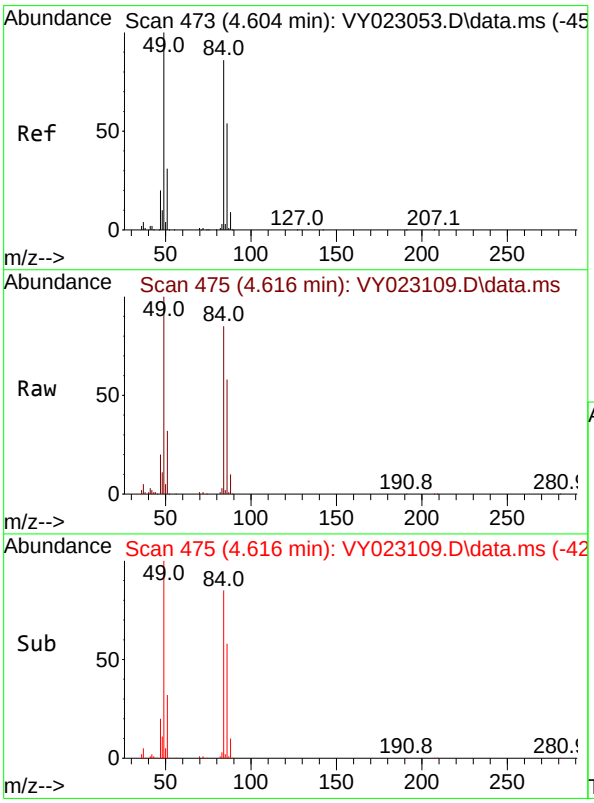
#19
Methyl tert-butyl Ether
Concen: 49.373 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 513333

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.1	25.7

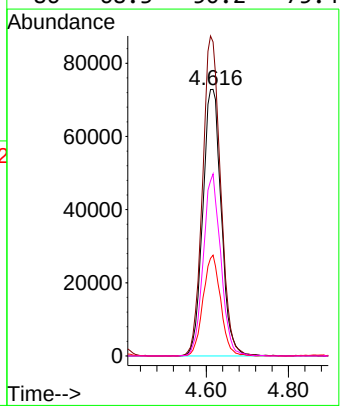


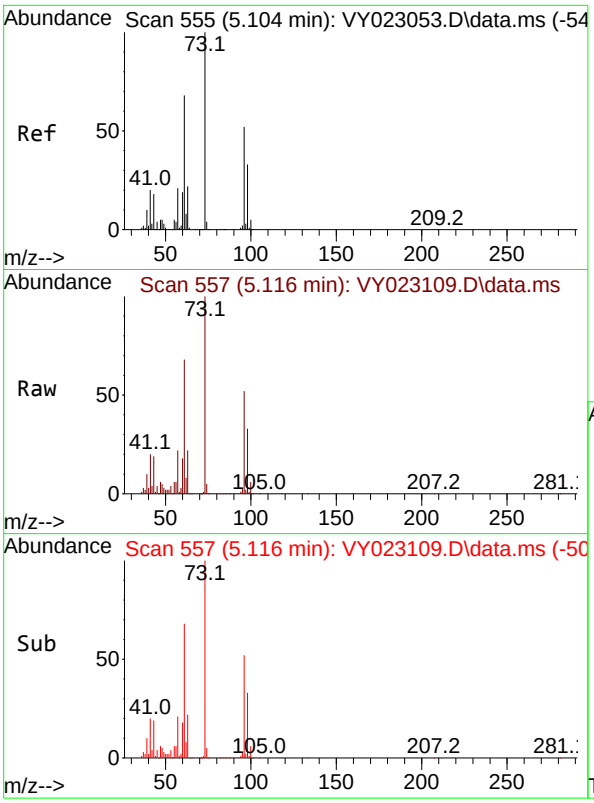


#20
Methylene Chloride
Concen: 50.830 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 84 Resp: 226871

Ion	Ratio	Lower	Upper
84	100		
49	117.8	93.0	139.6
51	37.9	29.0	43.4
86	68.3	50.2	75.4



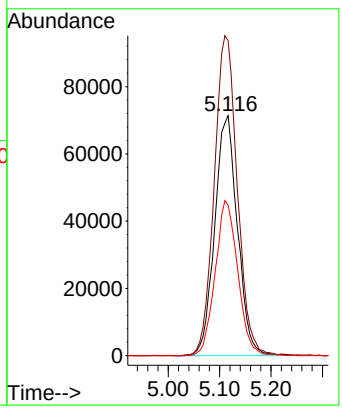


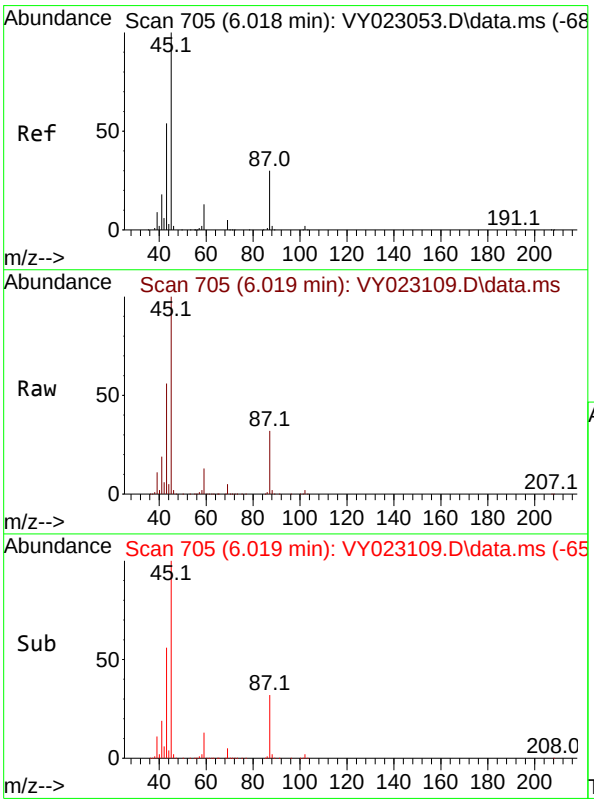
#21
trans-1,2-Dichloroethene
Concen: 48.739 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 219760

Ion	Ratio	Lower	Upper
96	100		
61	131.3	104.8	157.2
98	62.7	50.1	75.1

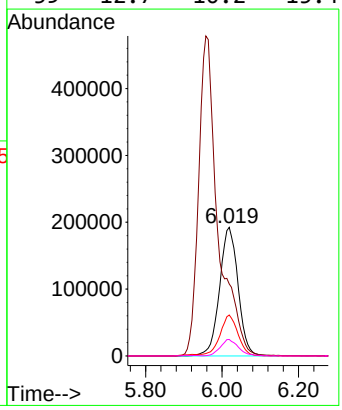


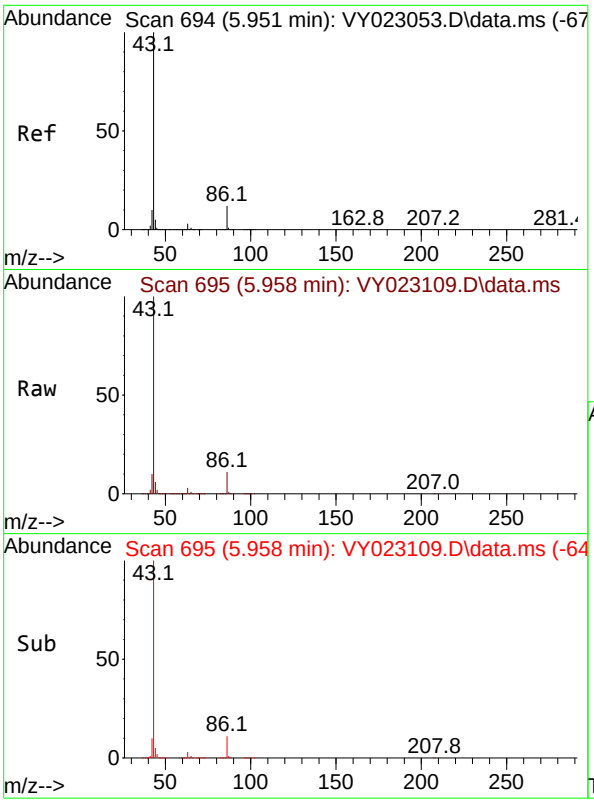


#22
Diisopropyl ether
Concen: 50.509 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 45 Resp: 647978

Ion	Ratio	Lower	Upper
45	100		
43	56.0	43.4	65.0
87	31.9	24.4	36.6
59	12.7	10.2	15.4



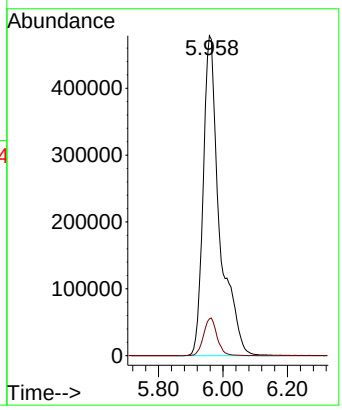


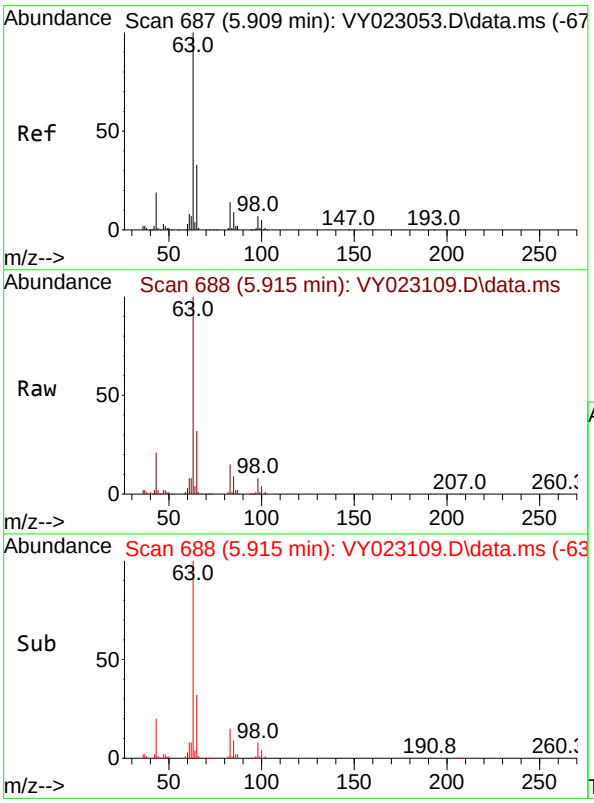
#23
Vinyl Acetate
Concen: 238.003 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1688350

Ion	Ratio	Lower	Upper
43	100		
86	11.5	9.6	14.4

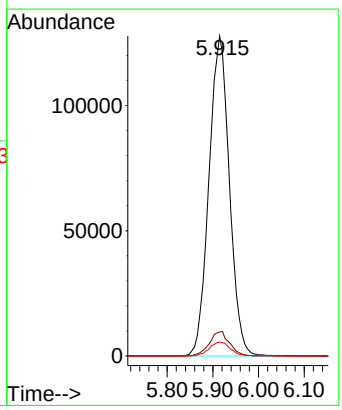


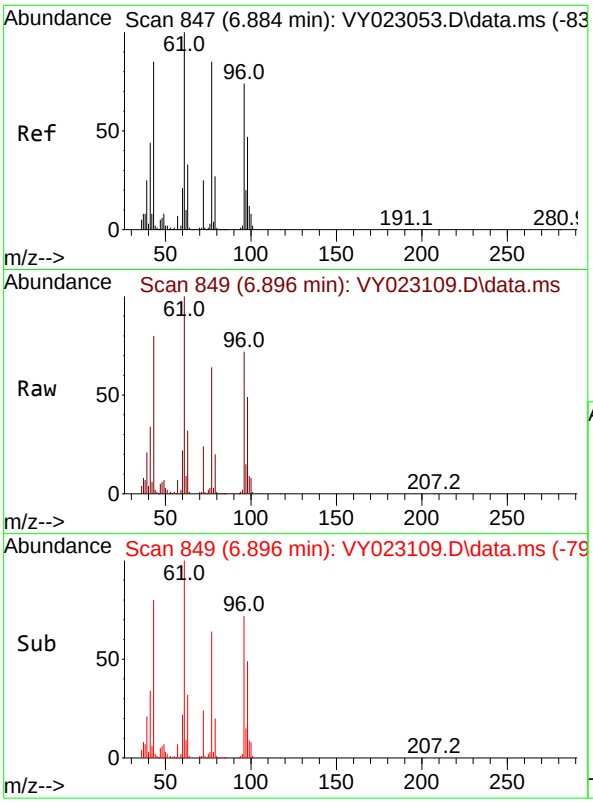


#24
1,1-Dichloroethane
Concen: 50.629 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 397112

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.5	10.6
100	4.4	2.4	7.1



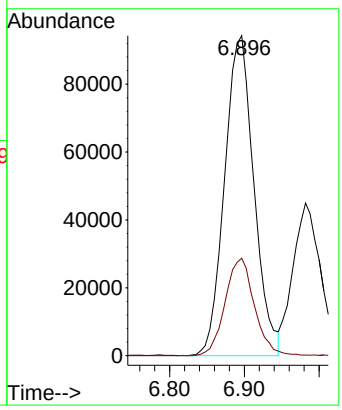


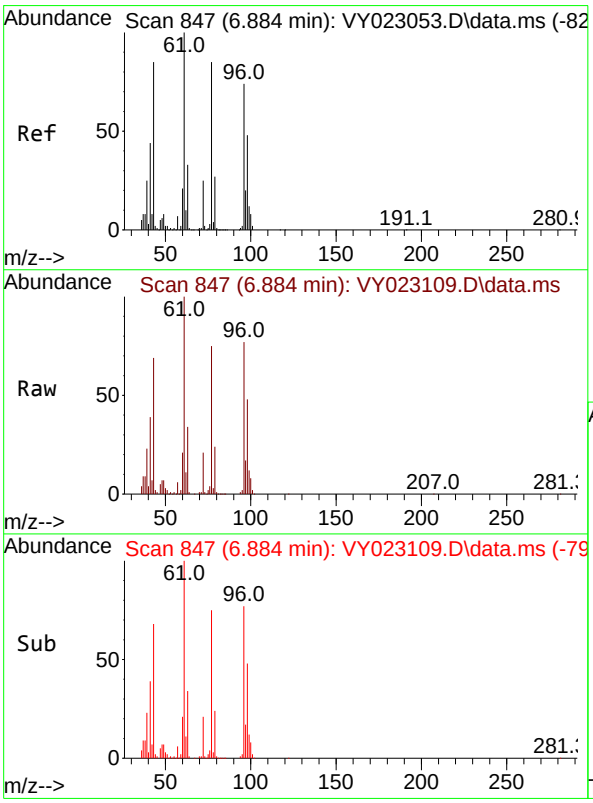
#25
2-Butanone
Concen: 220.416 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 257717

Ion	Ratio	Lower	Upper
43	100		
72	30.4	23.5	35.3

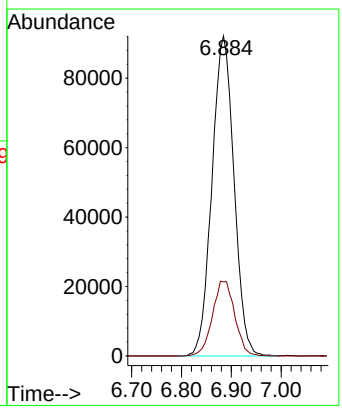


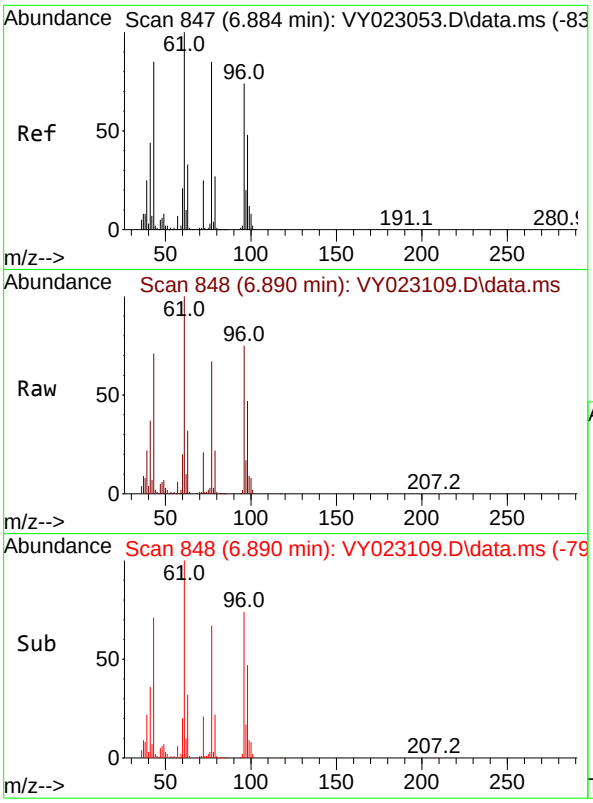


#26
2,2-Dichloropropane
Concen: 41.758 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 77 Resp: 282620

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.8



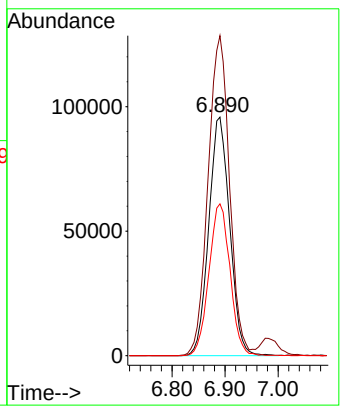


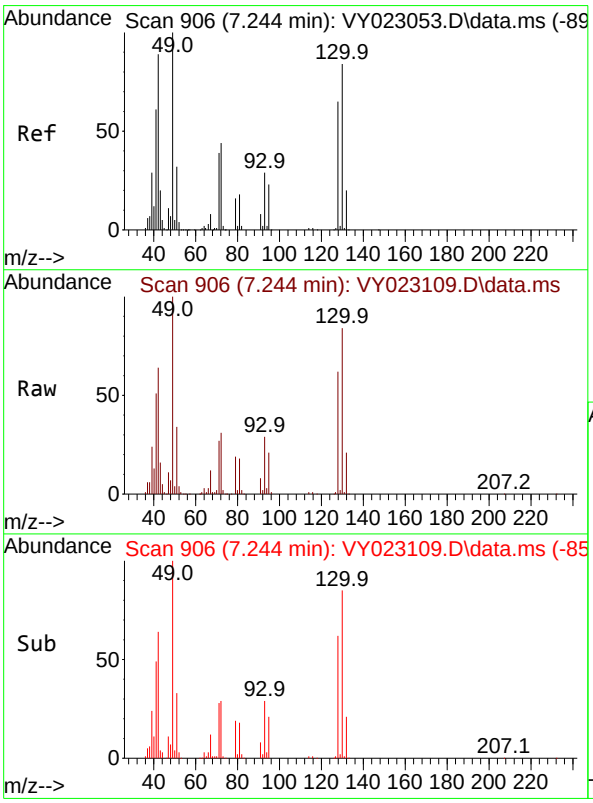
#27
cis-1,2-Dichloroethene
Concen: 50.429 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 262868

Ion	Ratio	Lower	Upper
96	100		
61	137.3	0.0	278.6
98	64.3	0.0	130.4

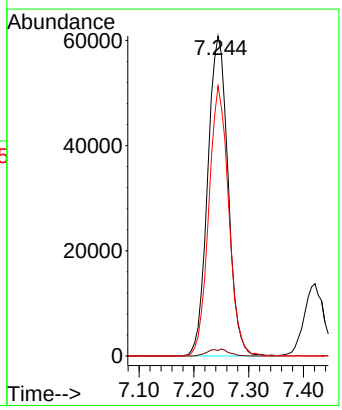


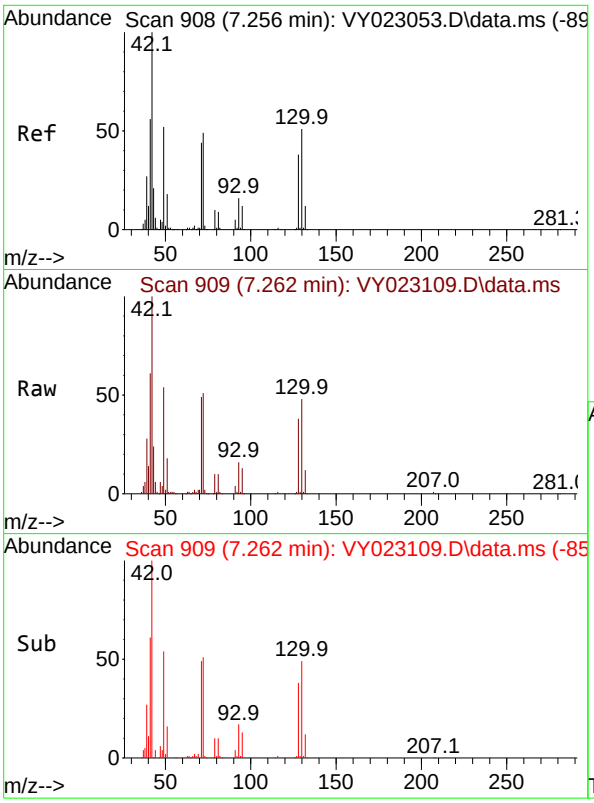


#28
Bromochloromethane
Concen: 50.366 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 49 Resp: 156731

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.2	66.4	99.6



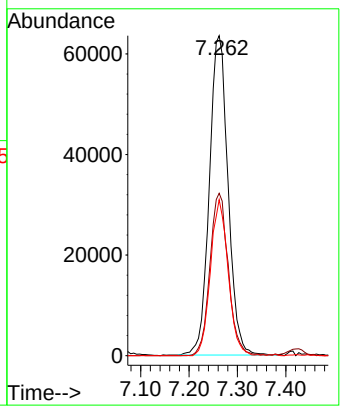


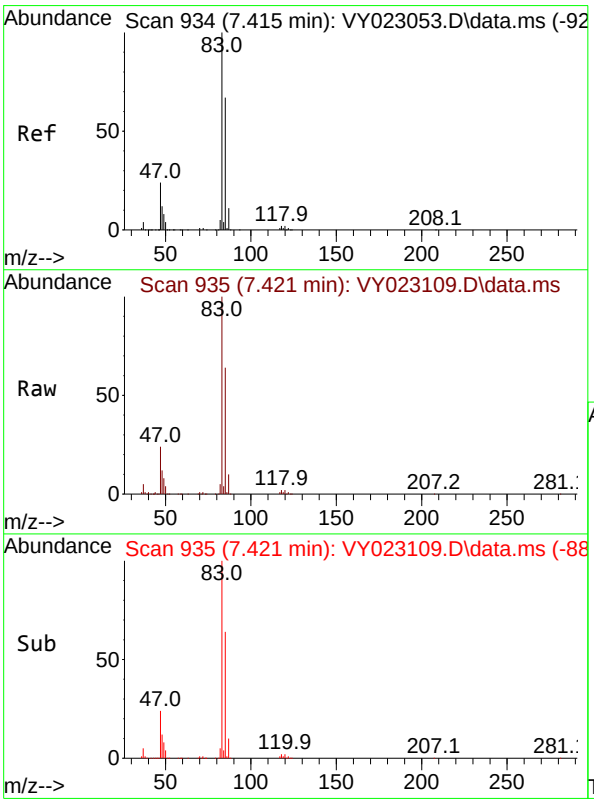
#29
Tetrahydrofuran
Concen: 235.626 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 170771

Ion	Ratio	Lower	Upper
42	100		
72	50.1	39.4	59.2
71	46.1	36.5	54.7

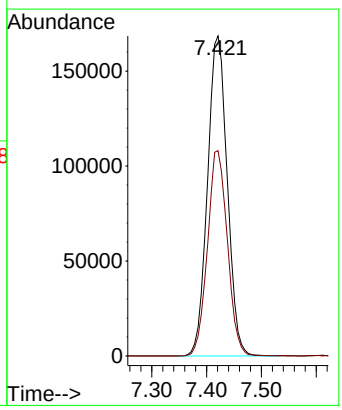


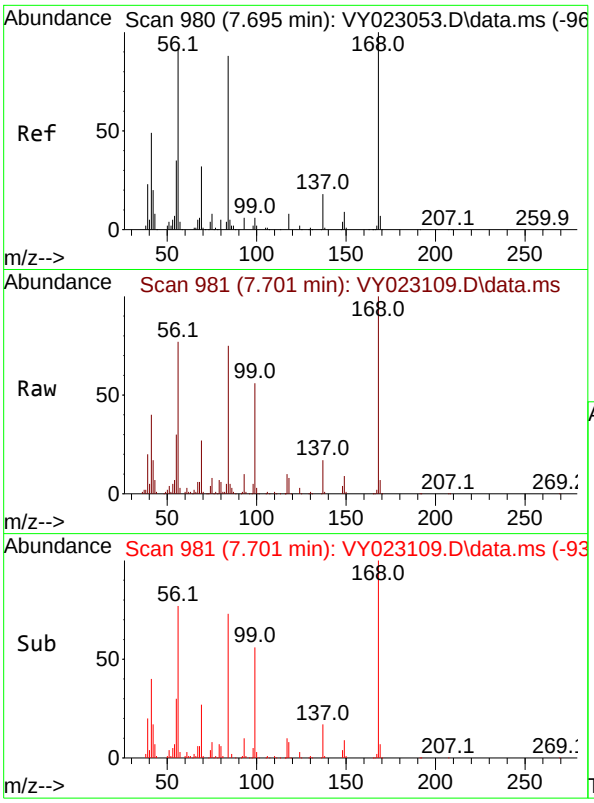


#30
Chloroform
Concen: 51.980 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 420476

Ion	Ratio	Lower	Upper
83	100		
85	64.2	53.8	80.8



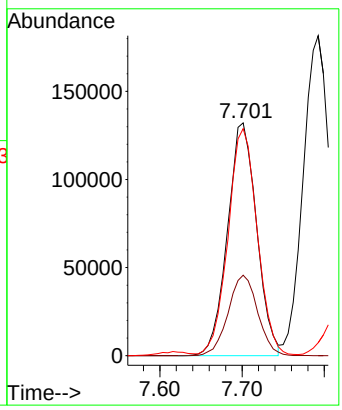


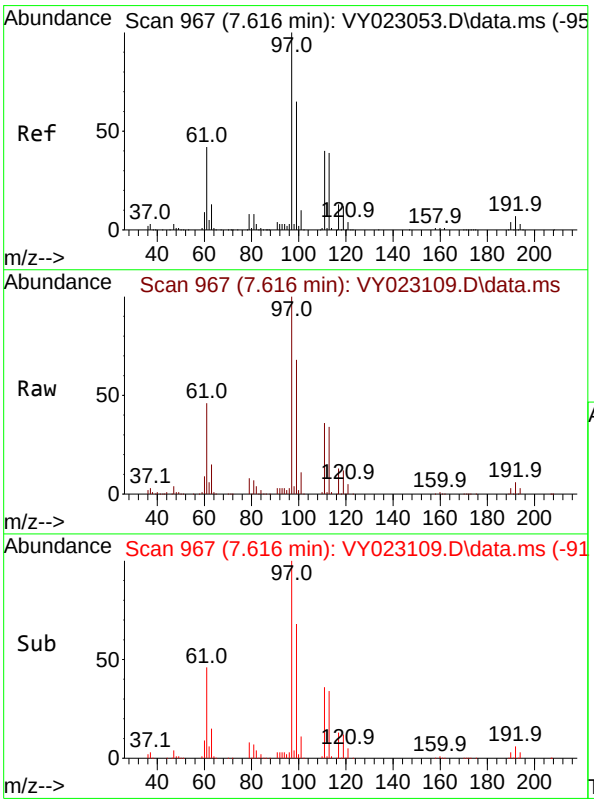
#31
Cyclohexane
Concen: 43.985 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 325108

Ion	Ratio	Lower	Upper
56	100		
69	34.6	28.2	42.2
84	96.0	76.6	114.8

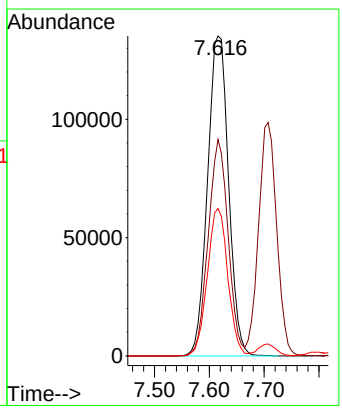


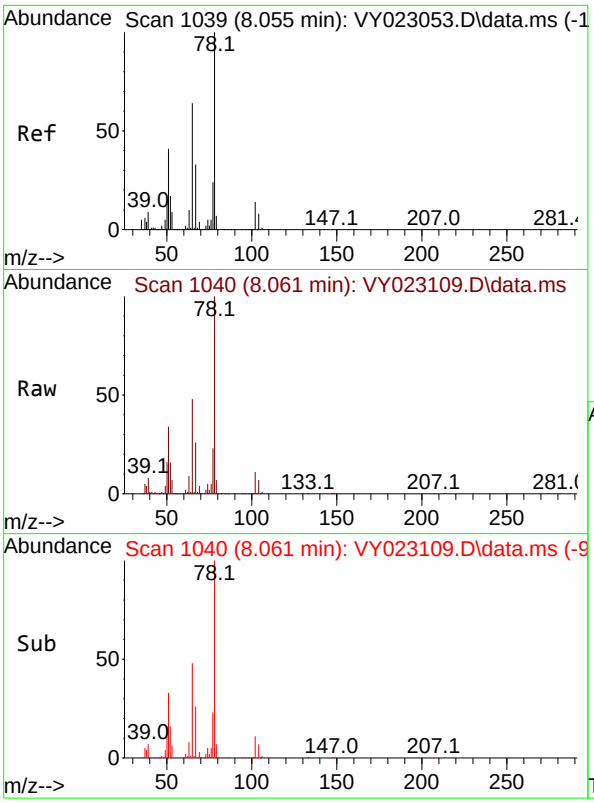


#32
1,1,1-Trichloroethane
Concen: 50.099 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 97 Resp: 359591

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.6	77.4
61	45.0	34.2	51.2



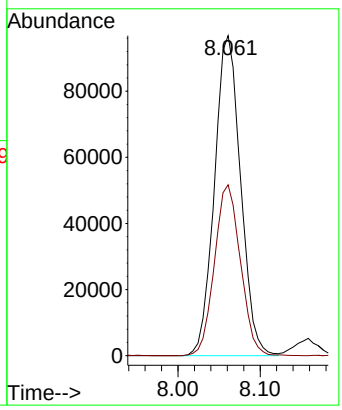


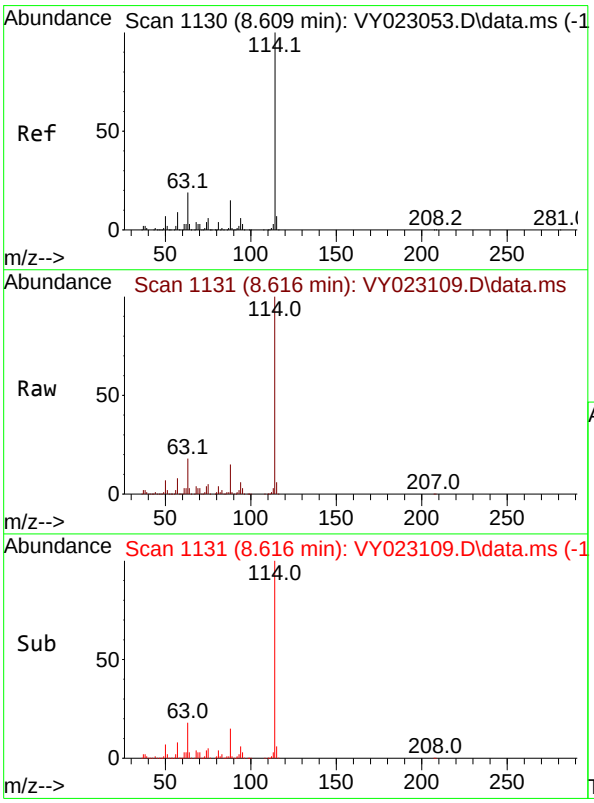
#33
1,2-Dichloroethane-d4
Concen: 53.901 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 213894

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8

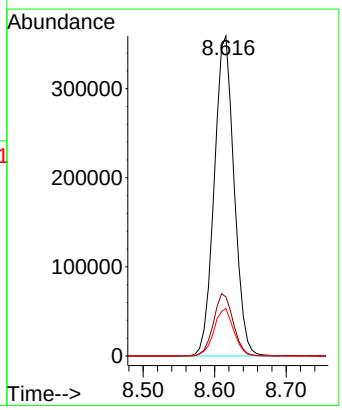


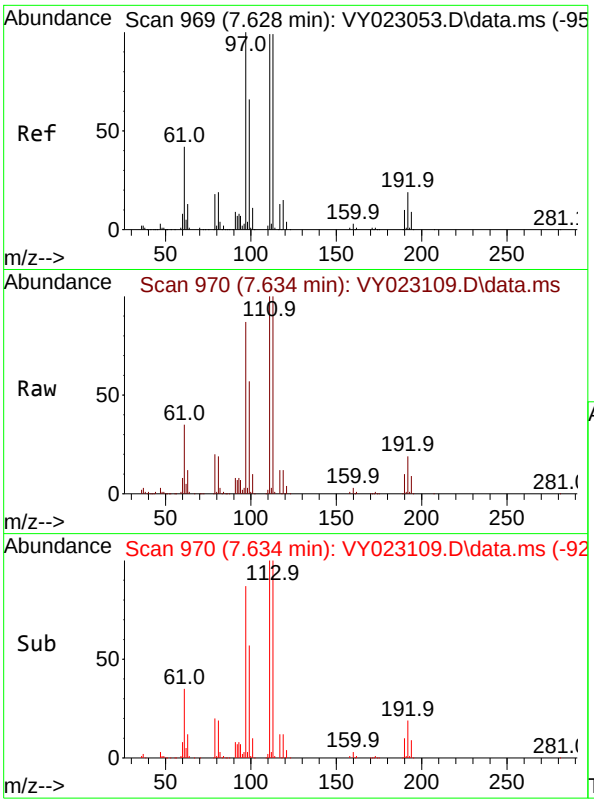


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:114 Resp: 692312

Ion	Ratio	Lower	Upper
114	100		
63	18.5	0.0	38.4
88	14.9	0.0	30.0



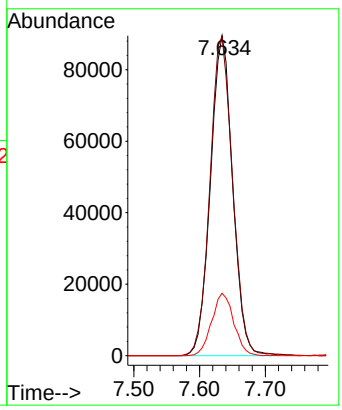


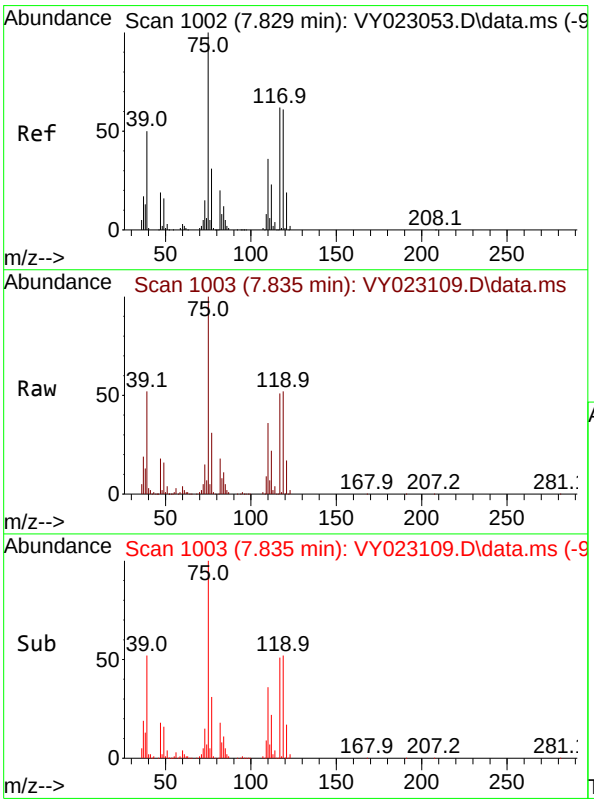
#35
Dibromofluoromethane
Concen: 50.660 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 209862

Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.1	121.7
192	19.4	16.2	24.4

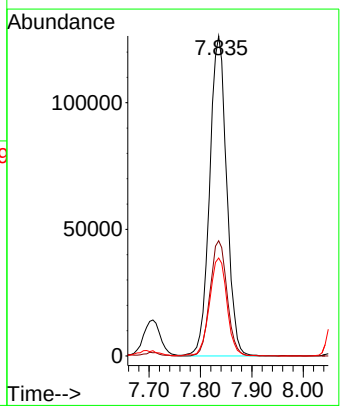


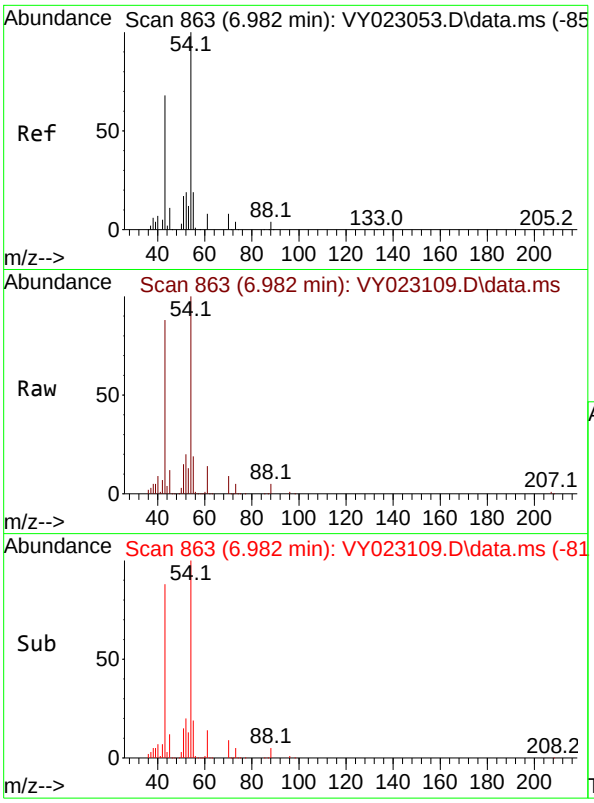


#36
1,1-Dichloropropene
Concen: 47.183 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 290479

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.4
77	31.4	24.6	37.0



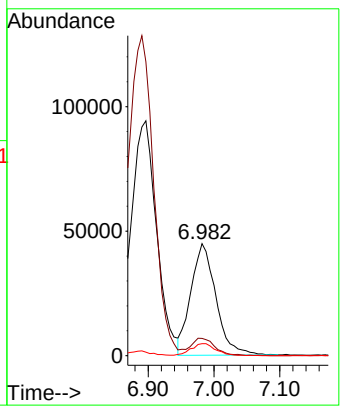


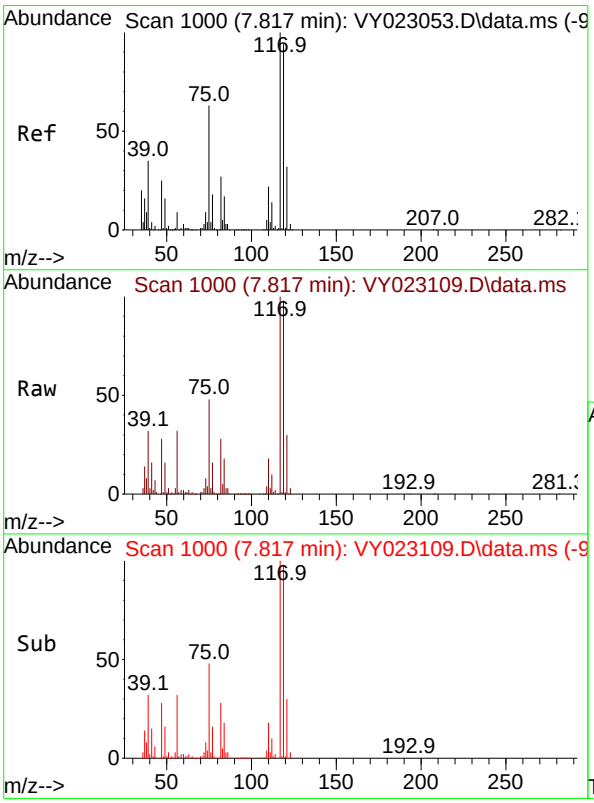
#37
Ethyl Acetate
Concen: 45.871 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 118629

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.9	17.9
70	10.4	8.8	13.2

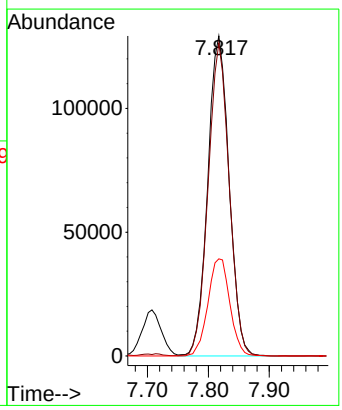


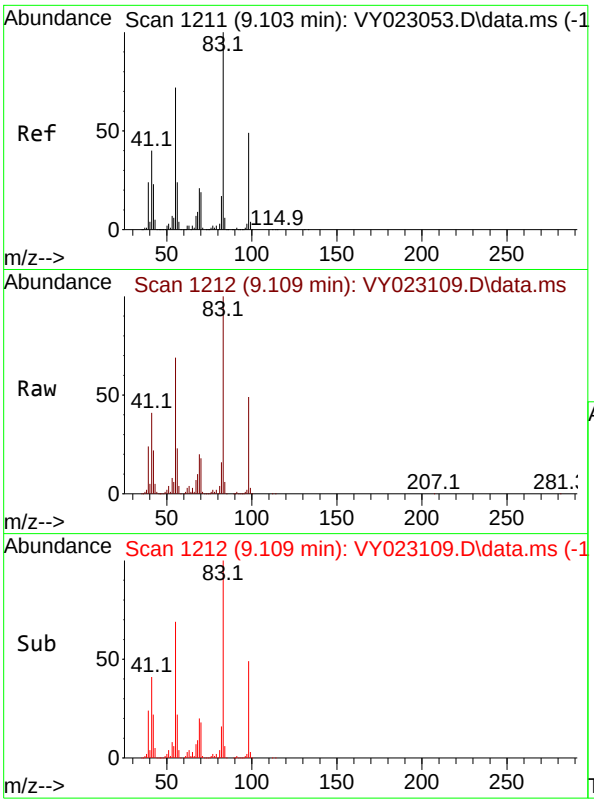


#38
Carbon Tetrachloride
Concen: 47.160 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 315347

Ion	Ratio	Lower	Upper
117	100		
119	97.8	75.6	113.4
121	30.4	25.8	38.8



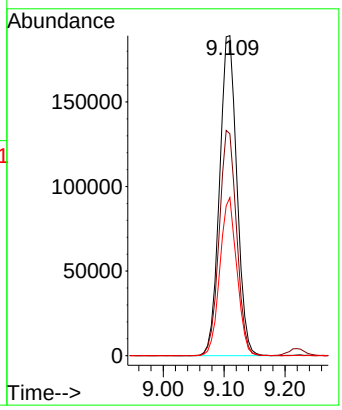


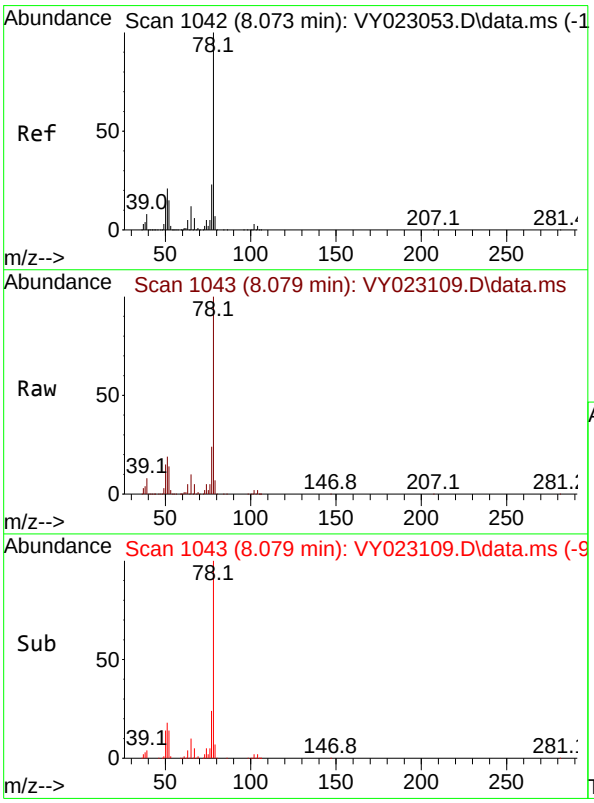
#39
Methylcyclohexane
Concen: 45.989 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 372844

Ion	Ratio	Lower	Upper
83	100		
55	69.4	57.6	86.4
98	49.4	39.2	58.8

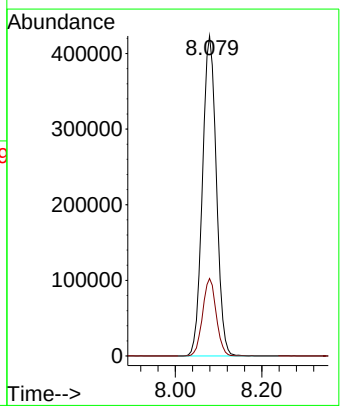


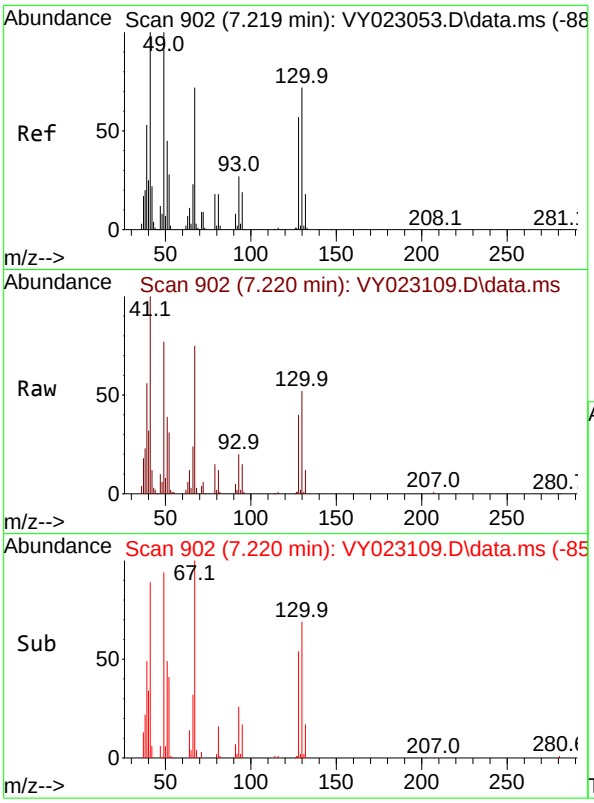


#40
Benzene
Concen: 49.676 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 78 Resp: 942603

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.6	28.0



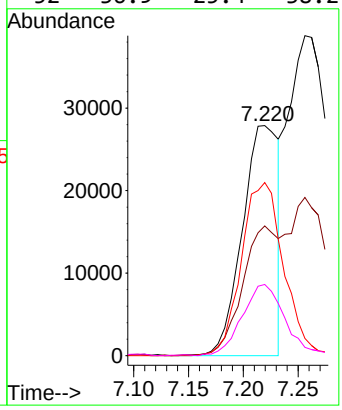


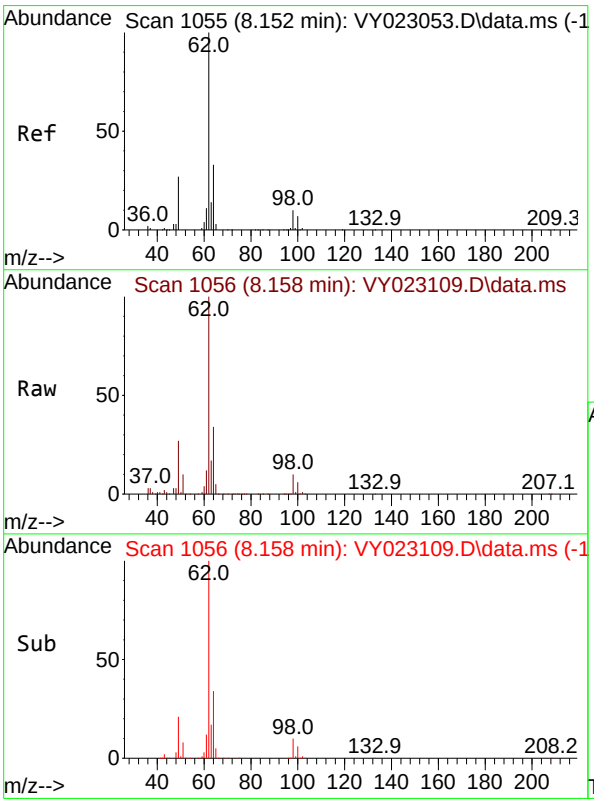
#41
Methacrylonitrile
Concen: 42.799 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 63879

Ion	Ratio	Lower	Upper
41	100		
39	55.6	43.4	65.2
67	88.2	63.6	95.4
52	36.9	25.4	38.2

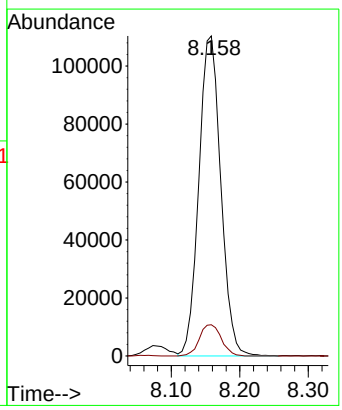


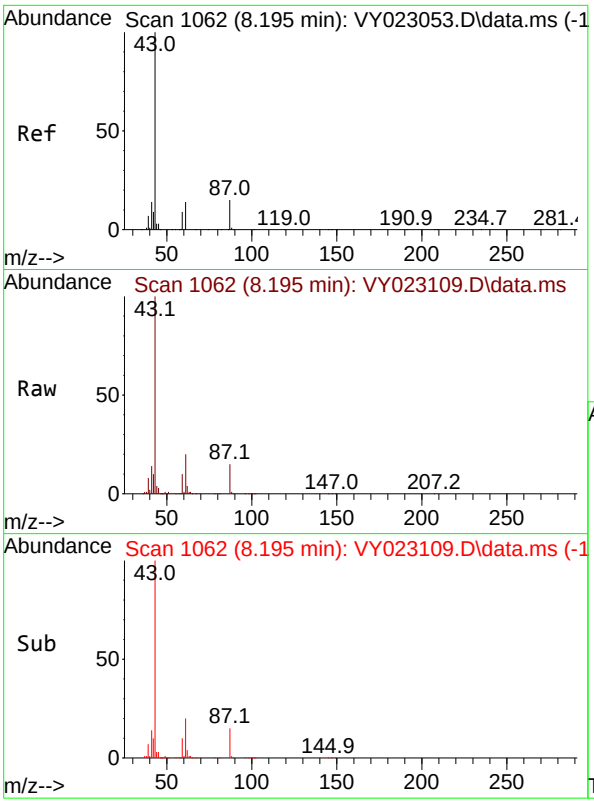


#42
1,2-Dichloroethane
Concen: 49.831 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 245917

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.6



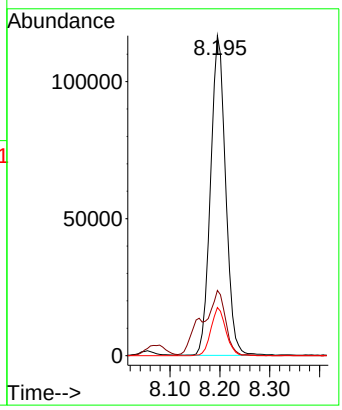


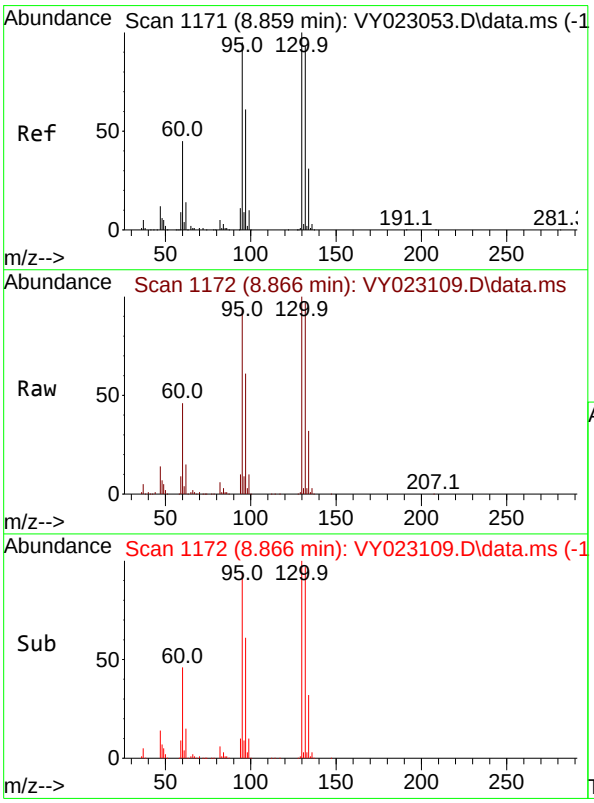
#43
Isopropyl Acetate
Concen: 46.911 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 245206

Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.4	24.6
87	14.9	11.8	17.6

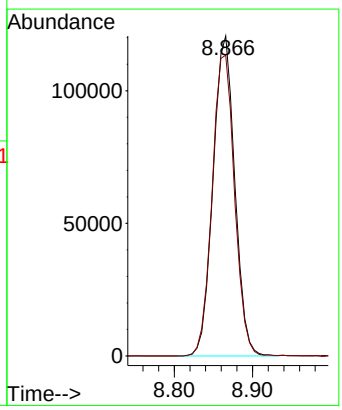


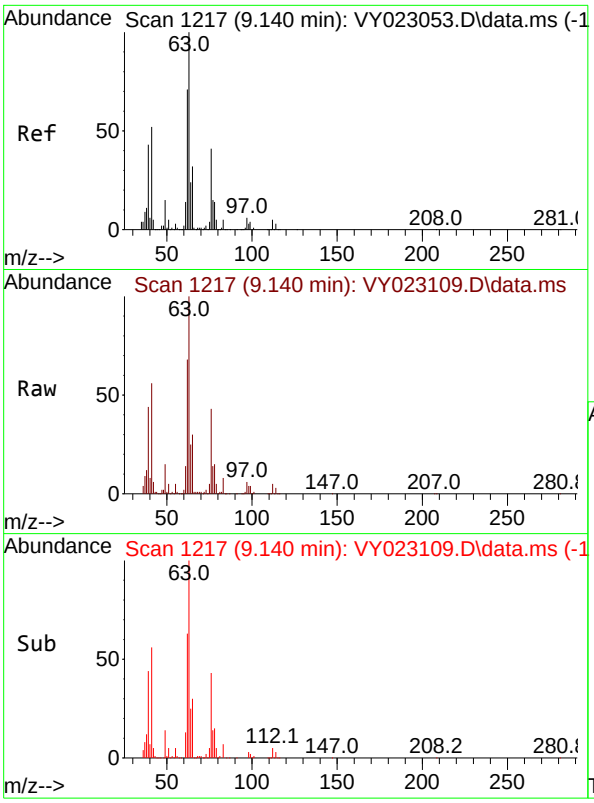


#44
Trichloroethene
Concen: 47.429 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:130 Resp: 232571

Ion	Ratio	Lower	Upper
130	100		
95	94.0	0.0	190.2



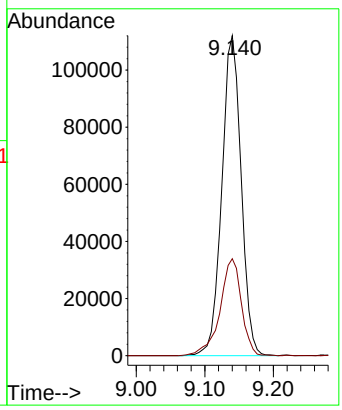


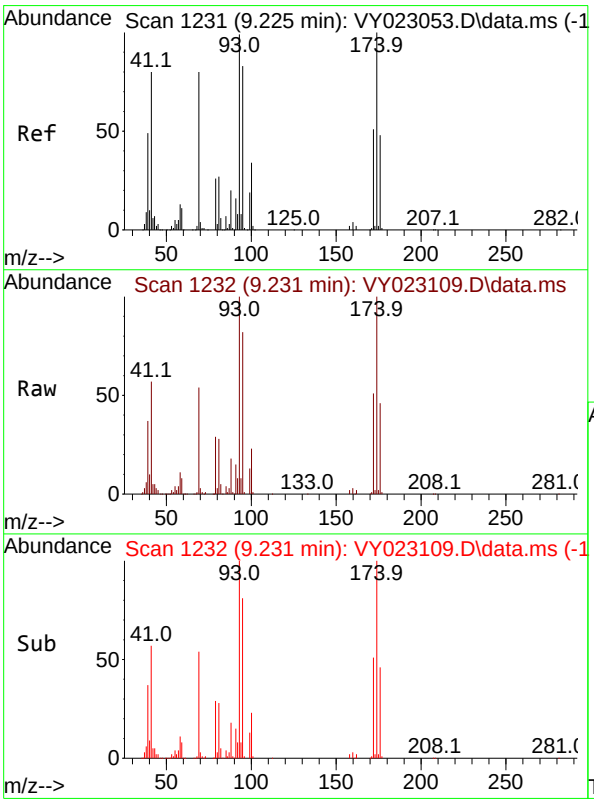
#45
1,2-Dichloropropane
Concen: 50.190 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 219128

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.3	37.9

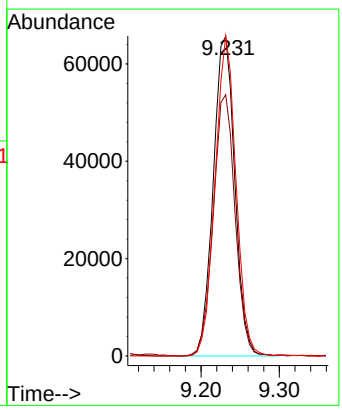


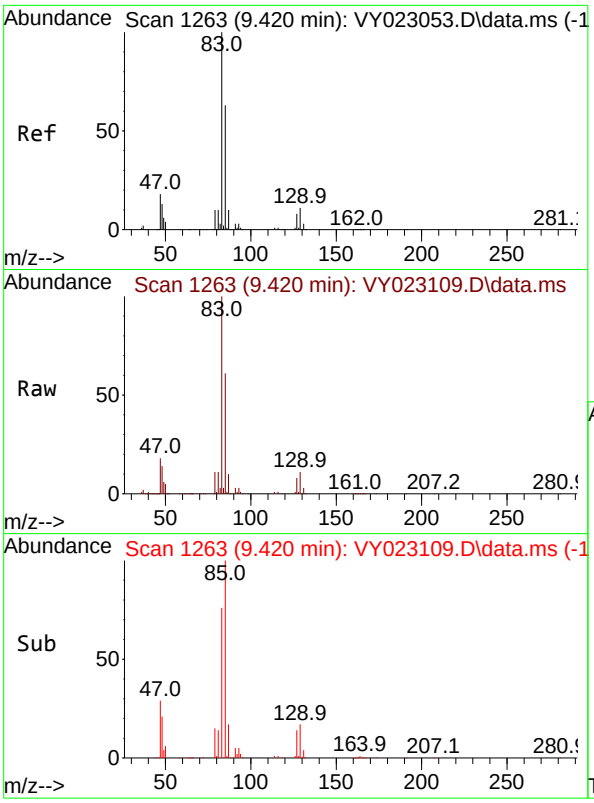


#46
Dibromomethane
Concen: 50.217 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 93 Resp: 125840

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.5	99.7
174	97.4	81.8	122.8



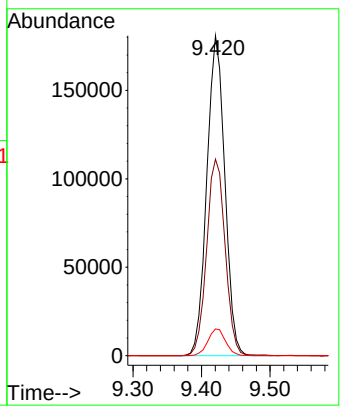


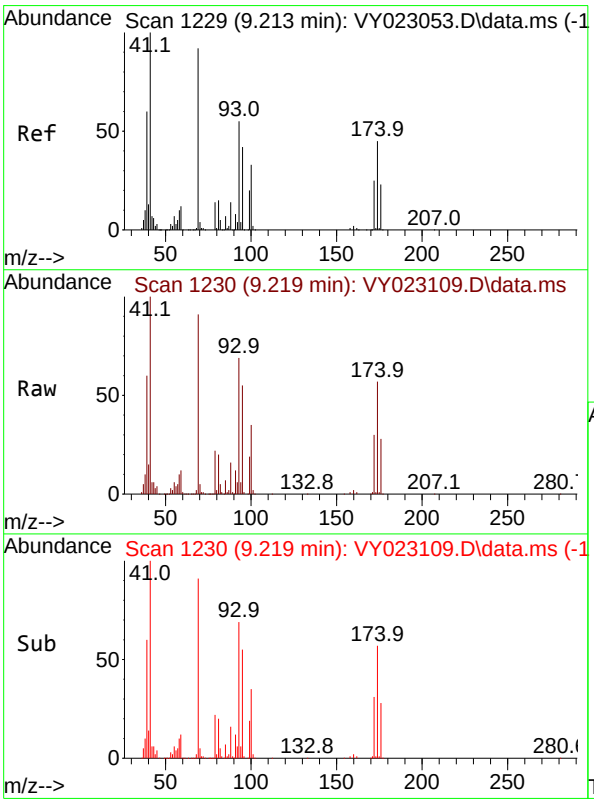
#47
Bromodichloromethane
Concen: 51.308 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 330836

Ion	Ratio	Lower	Upper
83	100		
85	61.4	50.2	75.4
127	8.3	6.6	10.0

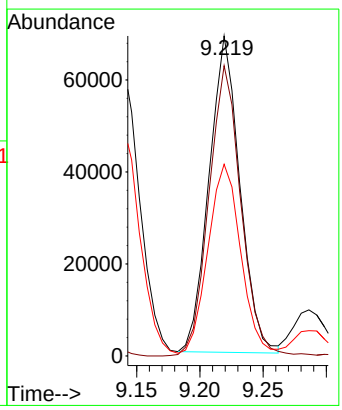


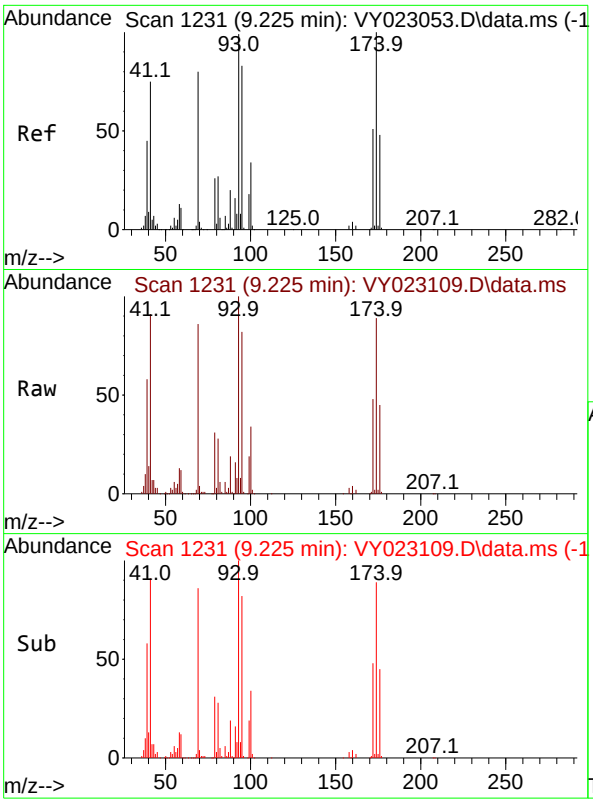


#48
Methyl methacrylate
Concen: 46.602 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 116562

Ion	Ratio	Lower	Upper
41	100		
69	95.4	73.2	109.8
39	63.1	47.0	70.4



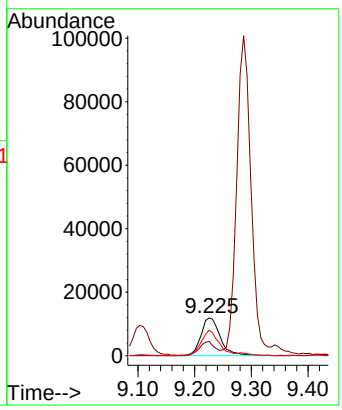


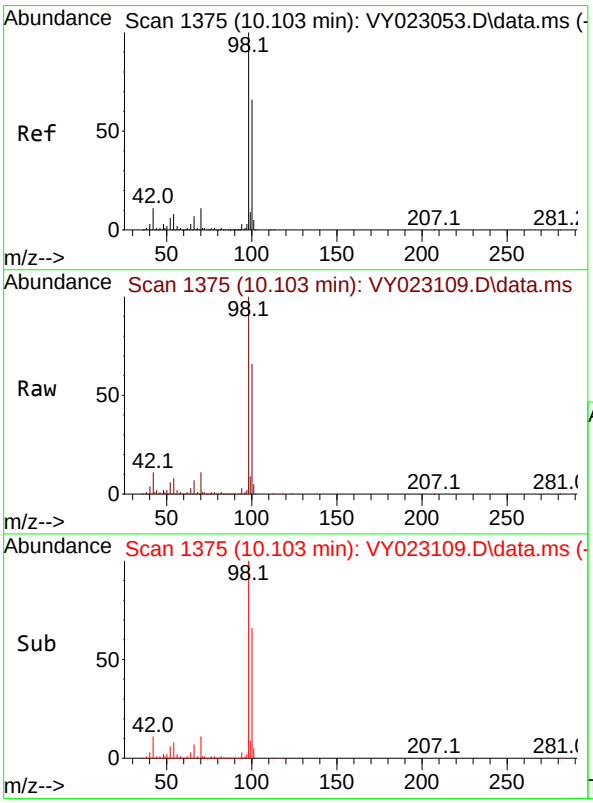
#49
1,4-Dioxane
Concen: 959.813 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 28202

Ion	Ratio	Lower	Upper
88	100		
43	28.7	24.3	36.5
58	62.1	55.4	83.0

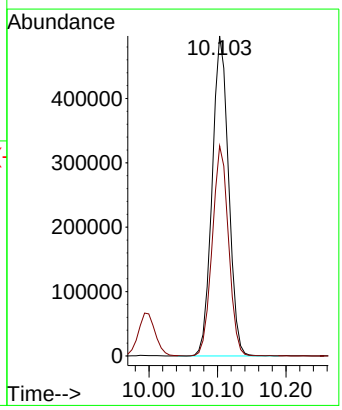


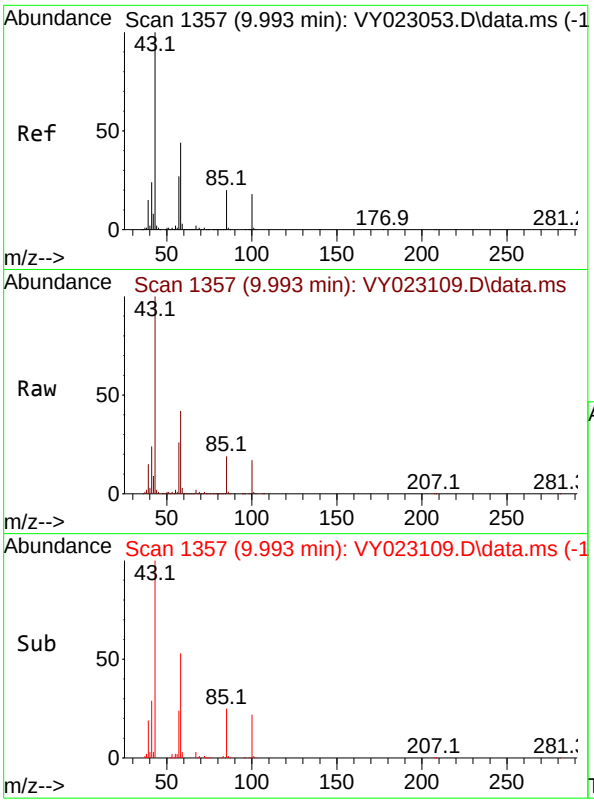


#50
Toluene-d8
Concen: 50.964 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 98 Resp: 824760

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.3	78.5



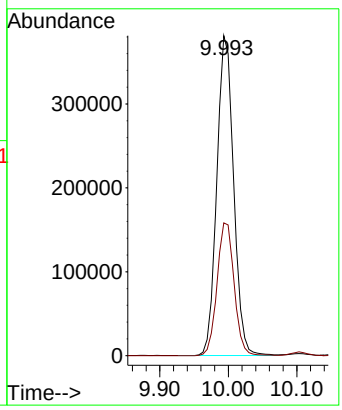


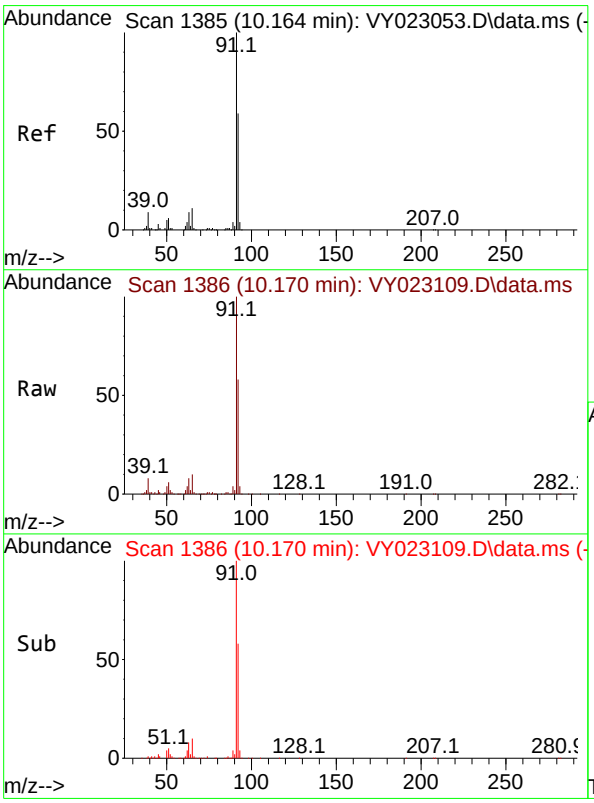
#51
4-Methyl-2-Pentanone
Concen: 240.407 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 648196

Ion	Ratio	Lower	Upper
43	100		
58	42.2	33.5	50.3

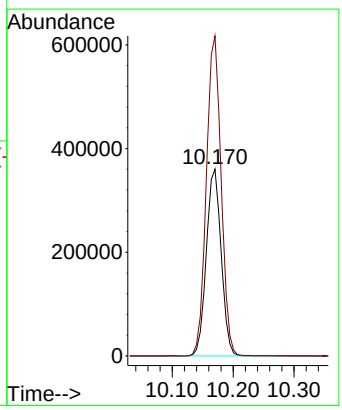


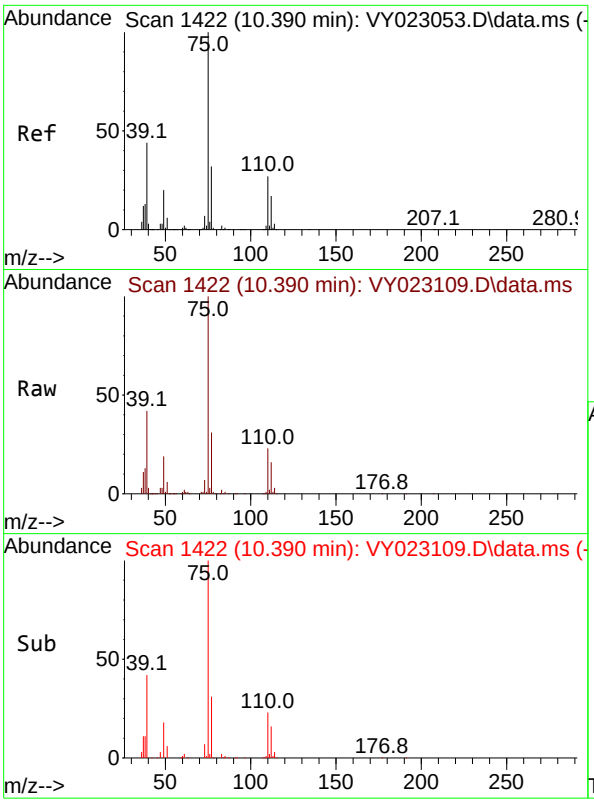


#52
Toluene
Concen: 50.491 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 92 Resp: 608495

Ion	Ratio	Lower	Upper
92	100		
91	171.0	136.4	204.6



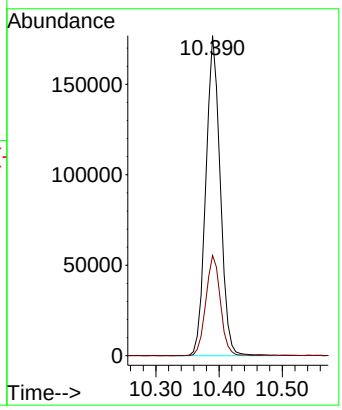


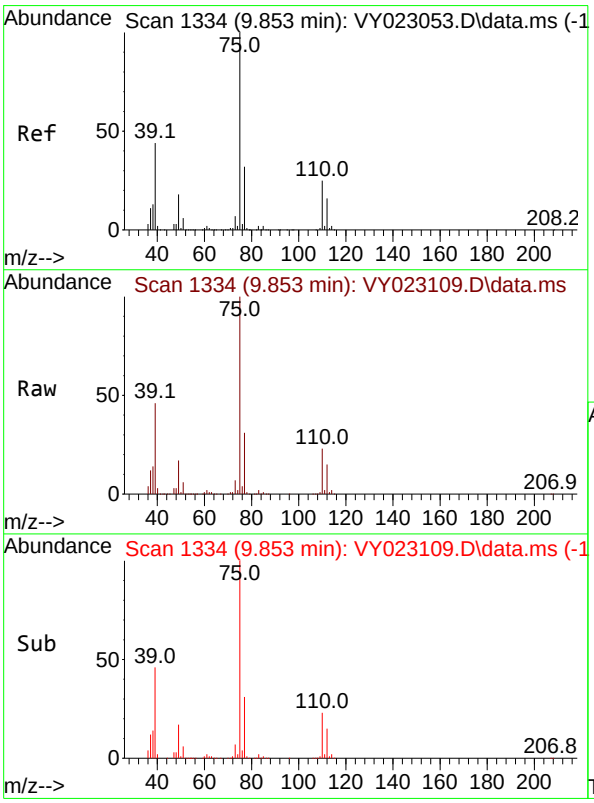
#53
t-1,3-Dichloropropene
Concen: 48.061 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 280629

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5

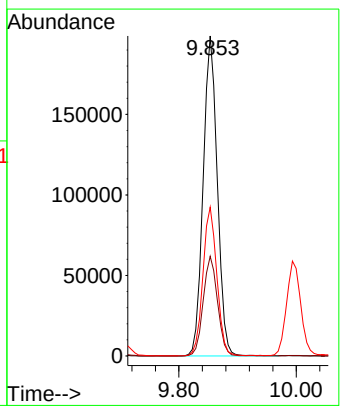


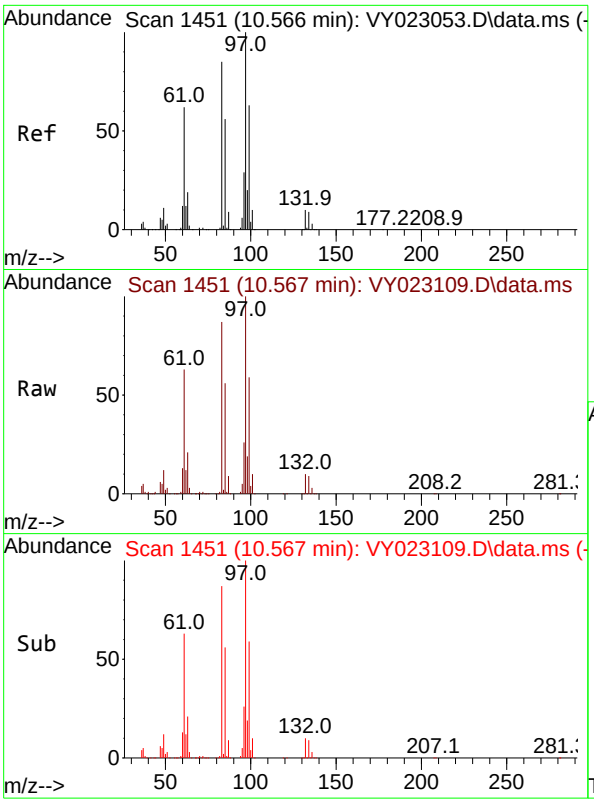


#54
cis-1,3-Dichloropropene
Concen: 48.260 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 333217

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	46.4	35.6	53.4



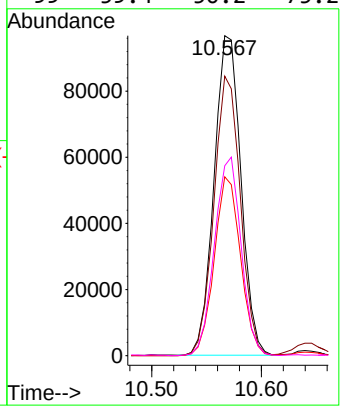


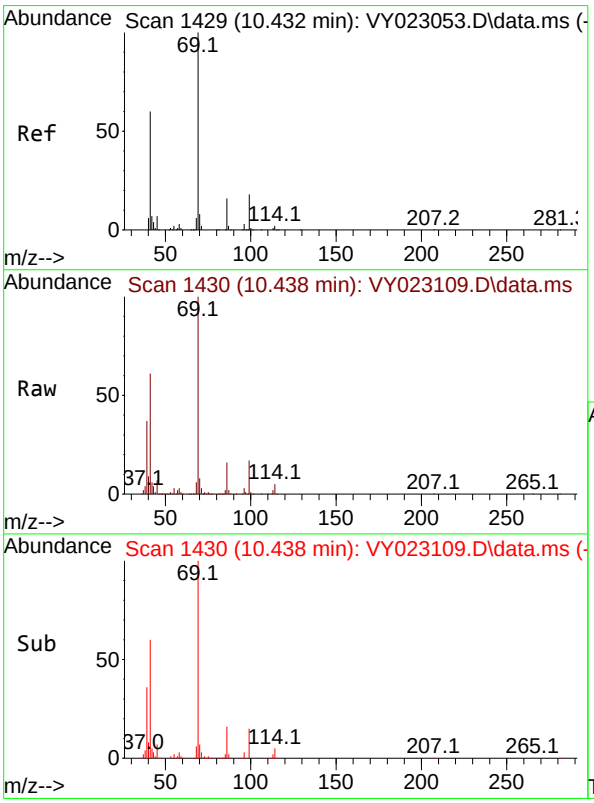
#55
1,1,2-Trichloroethane
Concen: 49.113 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 164684

Ion	Ratio	Lower	Upper
97	100		
83	87.5	67.7	101.5
85	56.0	44.5	66.7
99	59.4	50.2	75.2

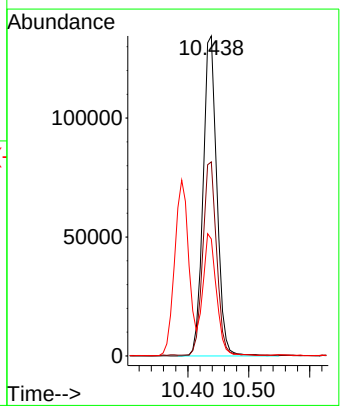


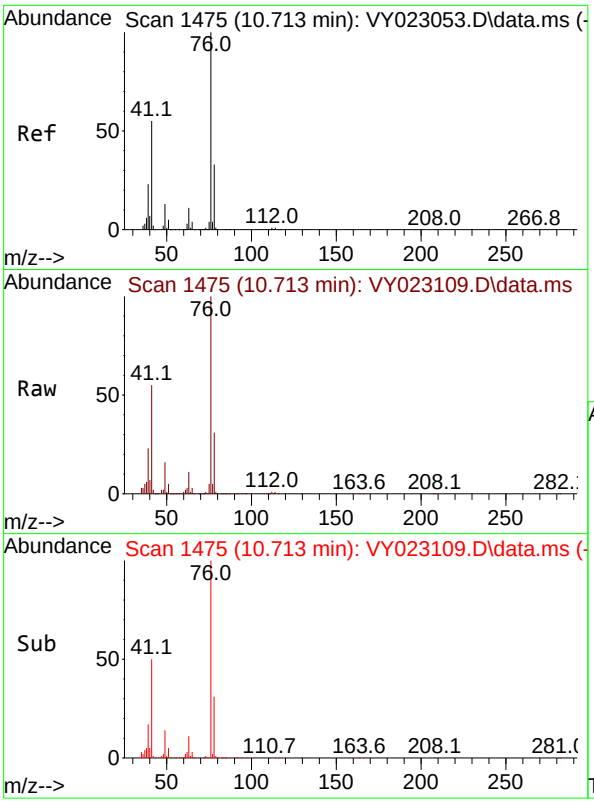


#56
Ethyl methacrylate
Concen: 49.346 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 69 Resp: 211730

Ion	Ratio	Lower	Upper
69	100		
41	60.3	48.6	72.8
39	37.1	27.0	40.4



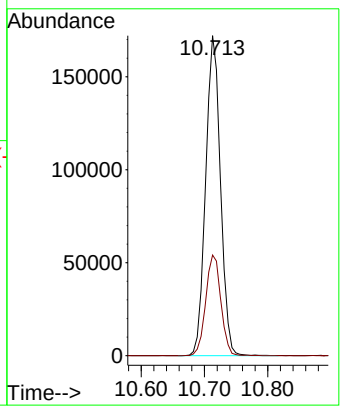


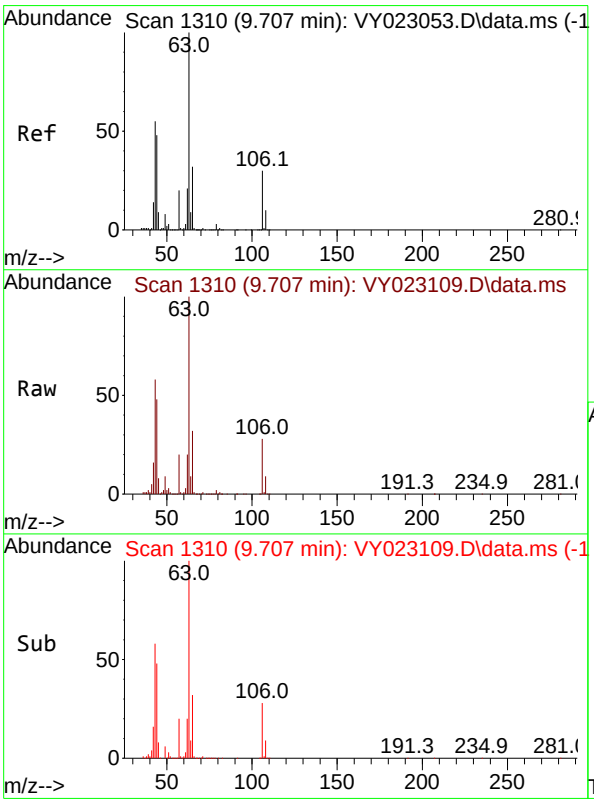
#57
1,3-Dichloropropane
Concen: 49.259 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 280123

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.0	39.0

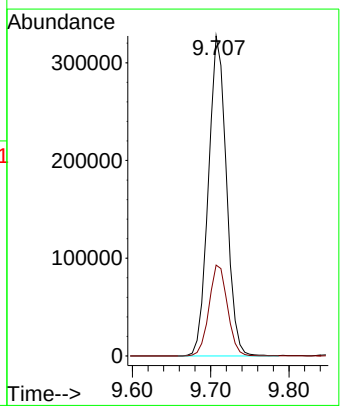


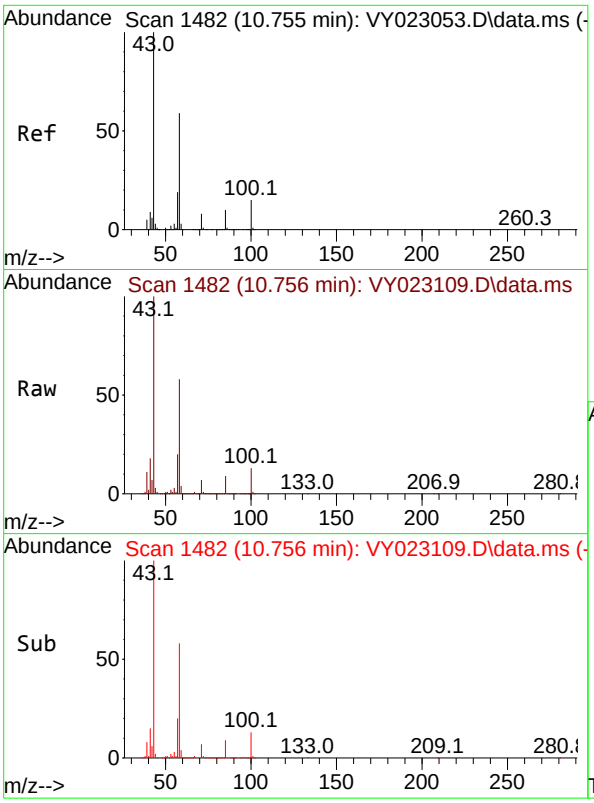


#58
2-Chloroethyl Vinyl ether
Concen: 258.207 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 522597

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.2	34.8



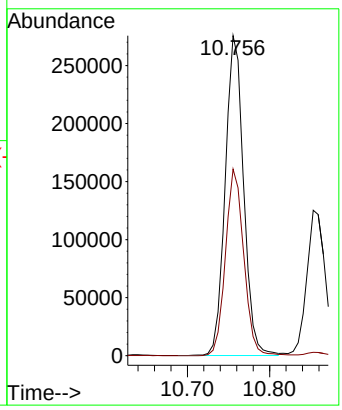


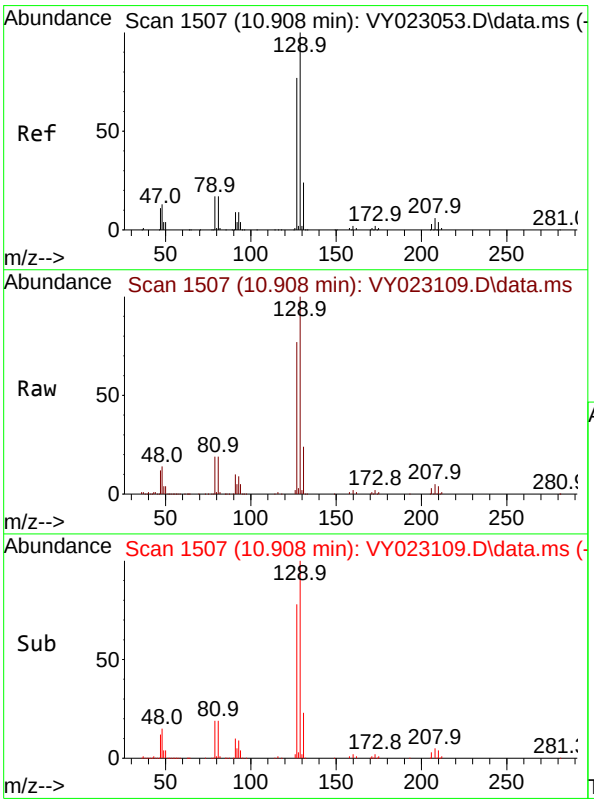
#59
2-Hexanone
Concen: 233.670 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 429008

Ion	Ratio	Lower	Upper
43	100		
58	58.2	29.5	88.5

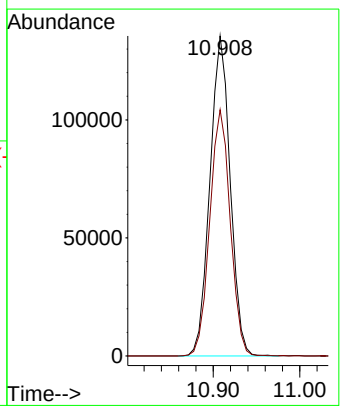


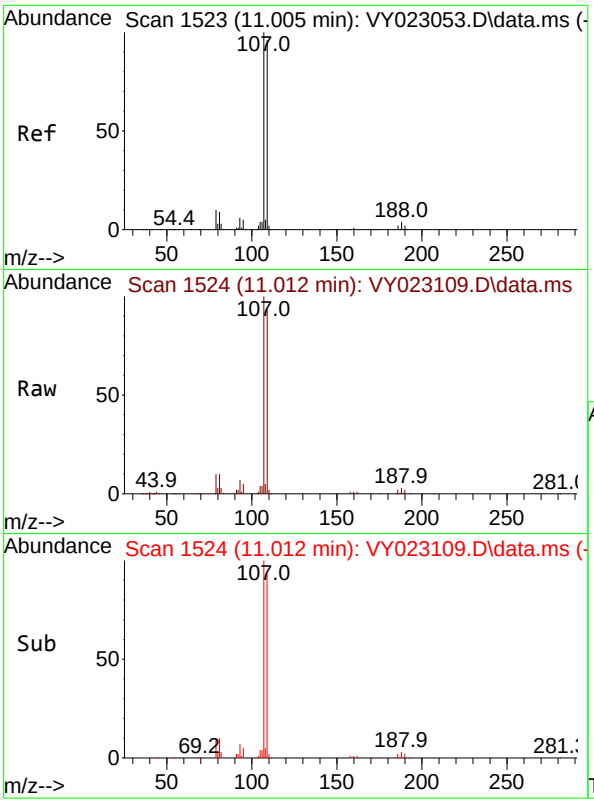


#60
Dibromochloromethane
Concen: 49.847 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:129 Resp: 220549

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.5	115.5



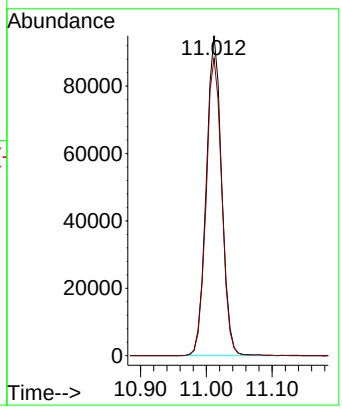


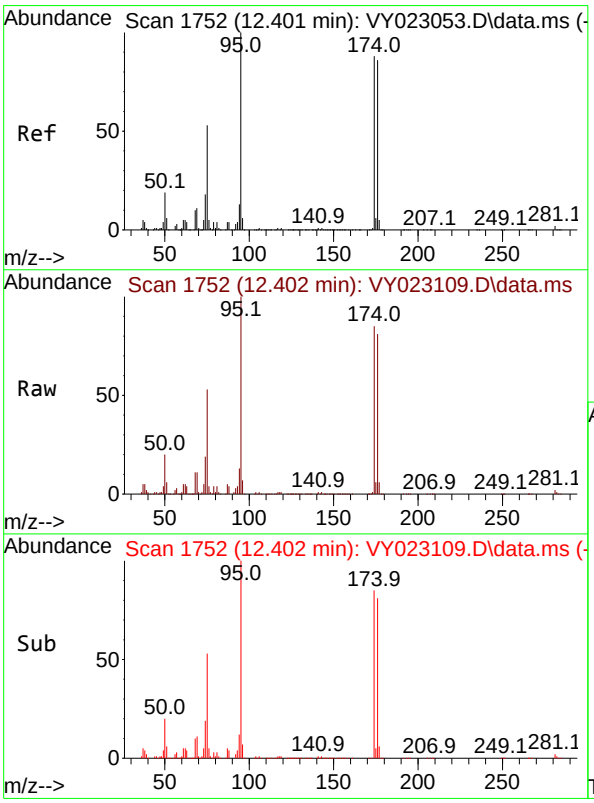
#61
1,2-Dibromoethane
Concen: 49.026 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 154512

Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.6	113.4

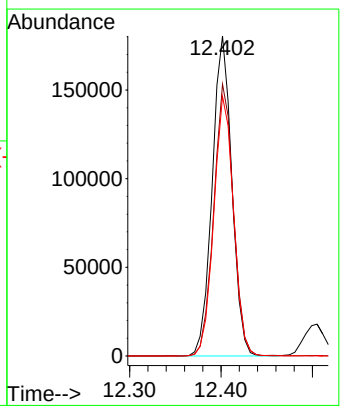


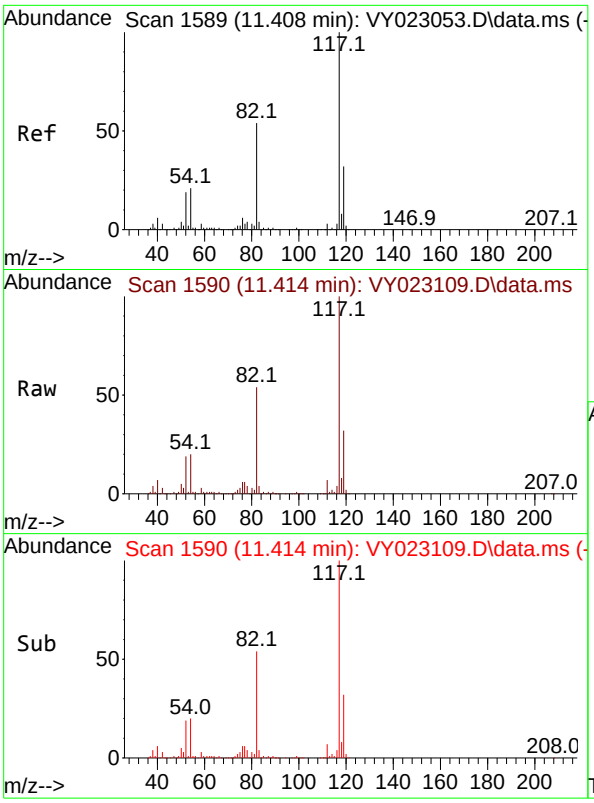


#62
4-Bromofluorobenzene
Concen: 51.660 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 95 Resp: 268864

Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	171.6
176	81.8	0.0	167.6



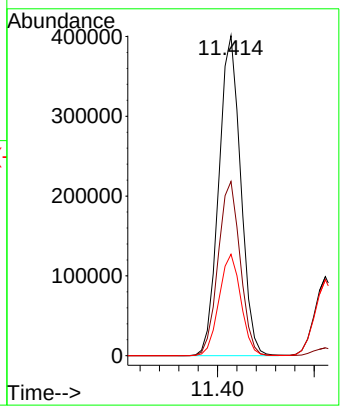


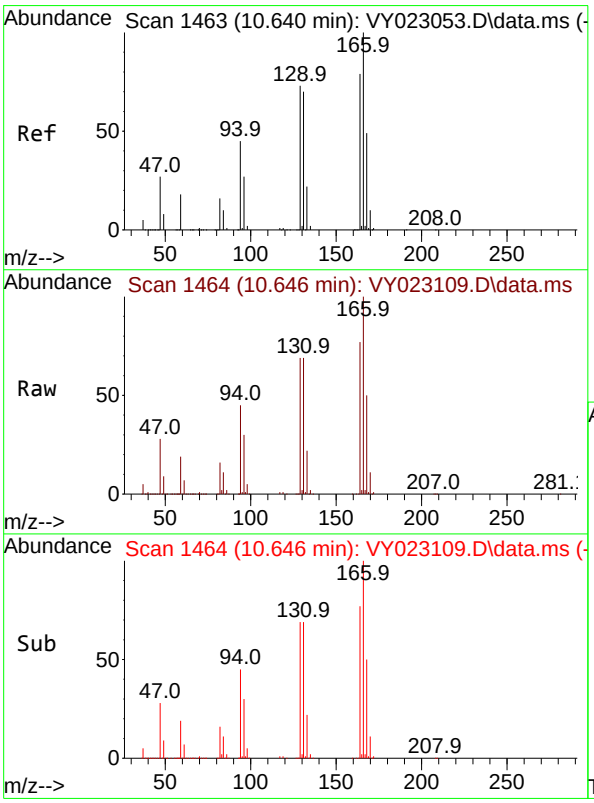
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 629047

Ion	Ratio	Lower	Upper
117	100		
82	54.4	43.4	65.0
119	31.7	25.6	38.4

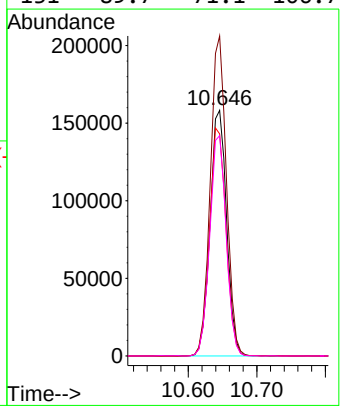


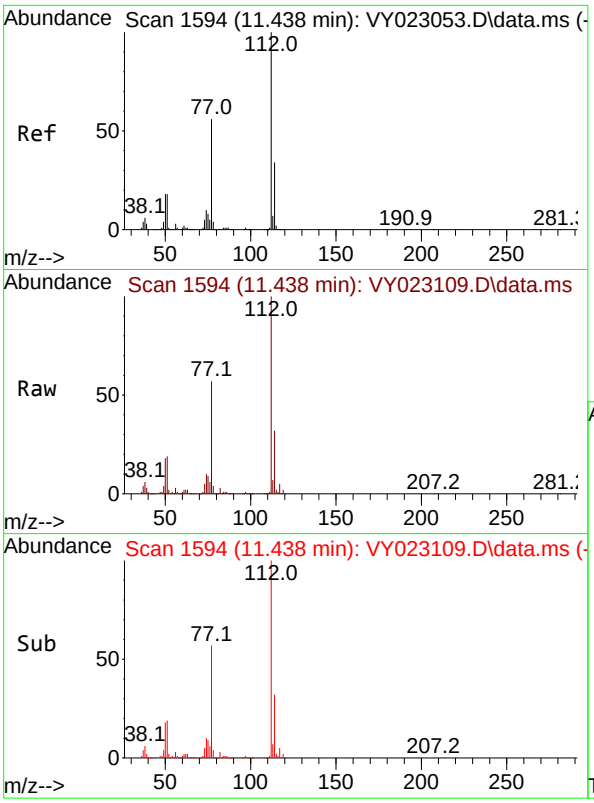


#64
Tetrachloroethene
Concen: 47.178 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:164 Resp: 264997

Ion	Ratio	Lower	Upper
164	100		
166	130.3	101.1	151.7
129	90.4	74.0	111.0
131	89.7	71.1	106.7



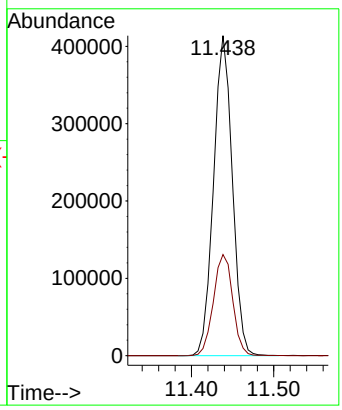


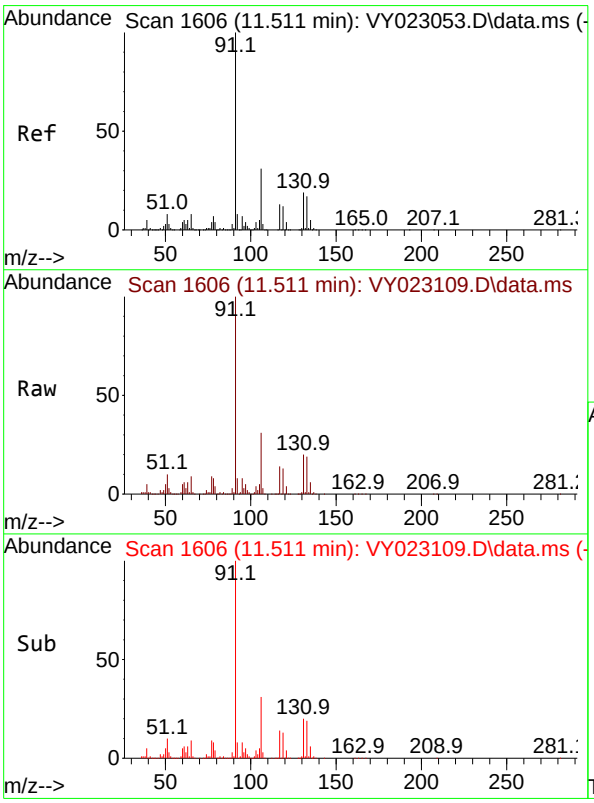
#65
Chlorobenzene
Concen: 48.335 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 655836

Ion	Ratio	Lower	Upper
112	100		
114	31.6	27.0	40.4

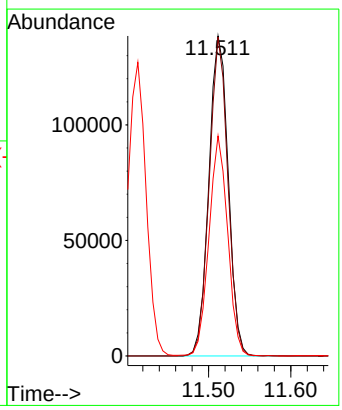


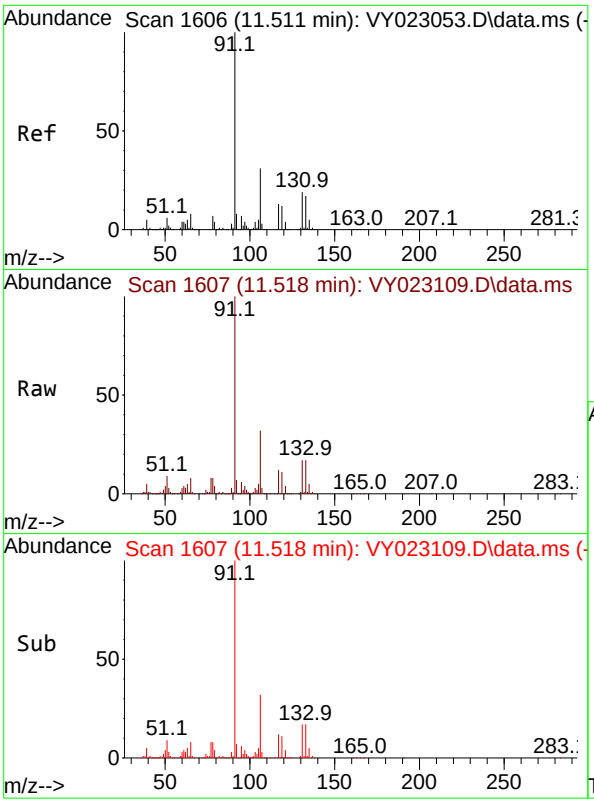


#66
1,1,1,2-Tetrachloroethane
Concen: 49.184 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:131 Resp: 226496

Ion	Ratio	Lower	Upper
131	100		
133	96.0	46.9	140.6
119	66.5	33.2	99.6



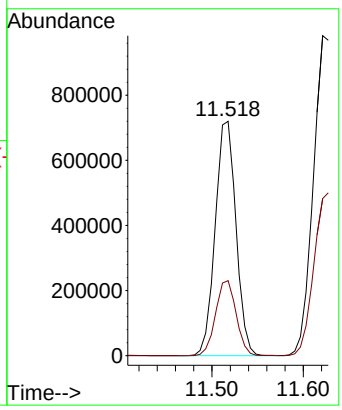


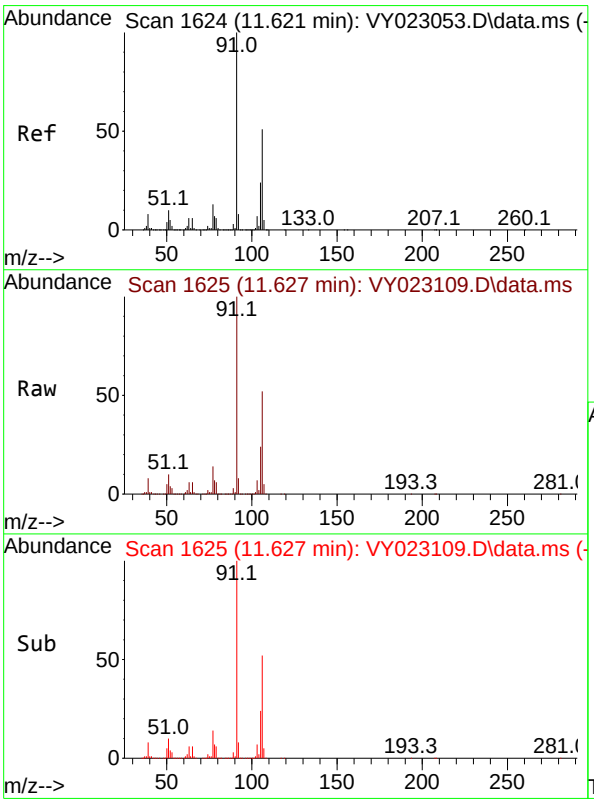
#67
Ethyl Benzene
Concen: 48.775 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1138907

Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.0	37.4

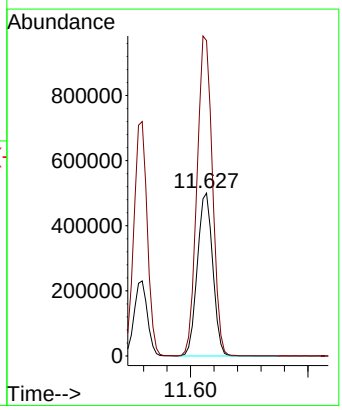


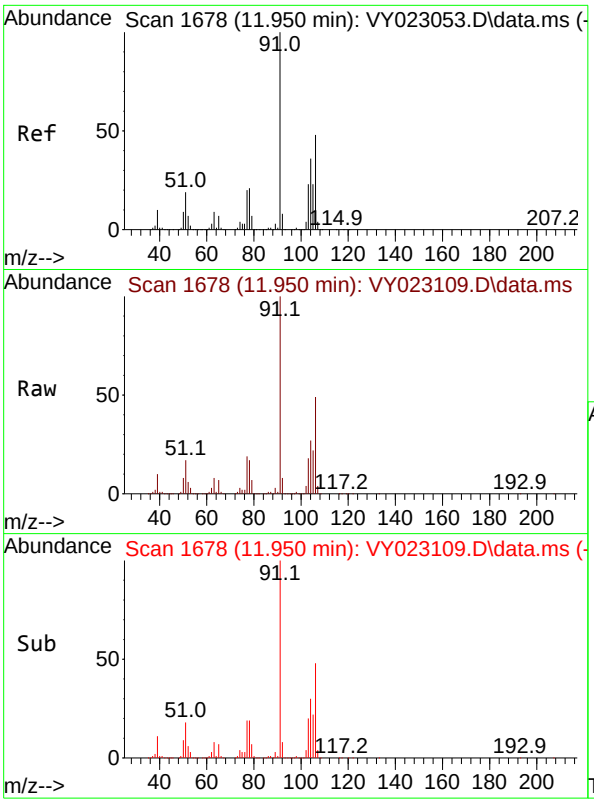


#68
m/p-Xylenes
Concen: 99.829 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:106 Resp: 910415

Ion	Ratio	Lower	Upper
106	100		
91	196.9	158.6	238.0



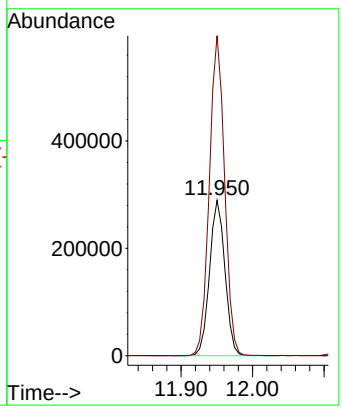


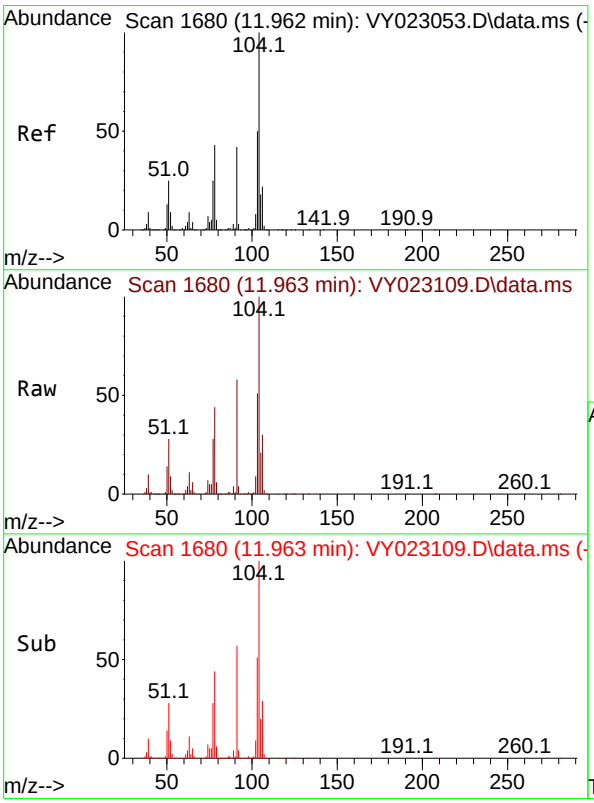
#69
o-Xylene
Concen: 50.504 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 431382

Ion	Ratio	Lower	Upper
106	100		
91	204.3	103.2	309.4

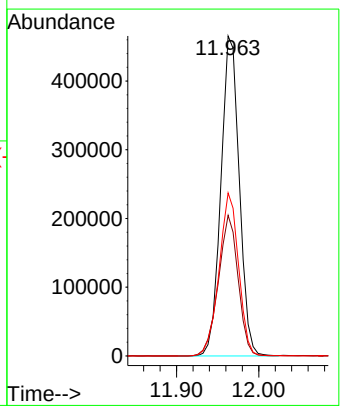


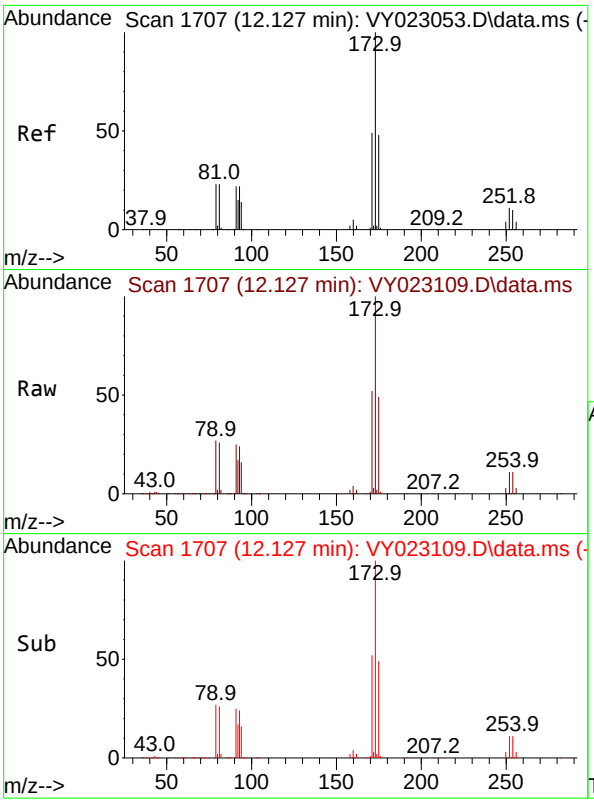


#70
Styrene
Concen: 51.783 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:104 Resp: 723332

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	54.1	43.7	65.5



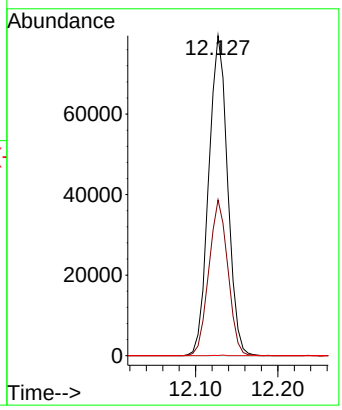


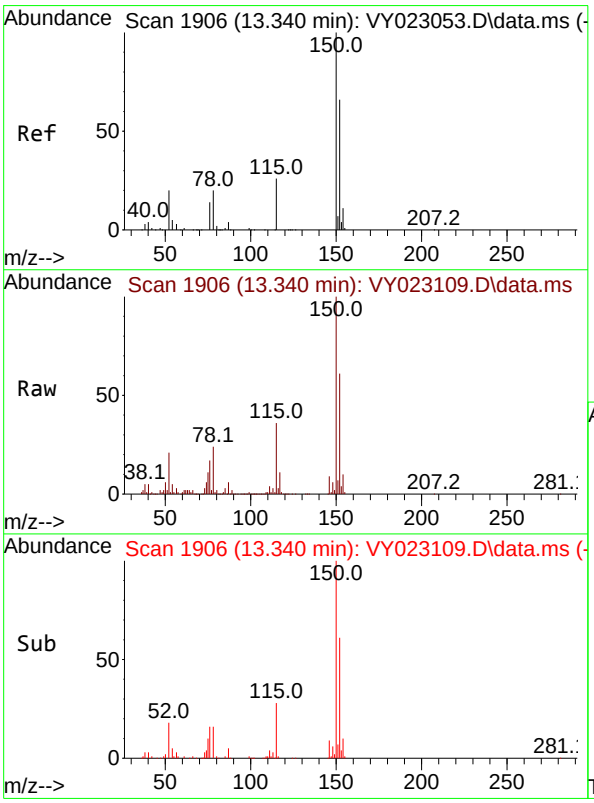
#71
Bromoform
Concen: 47.255 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 127183

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.7
254	0.1	0.1	0.1

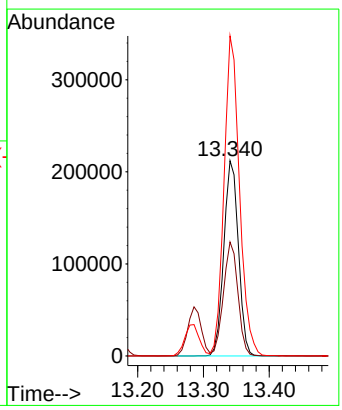


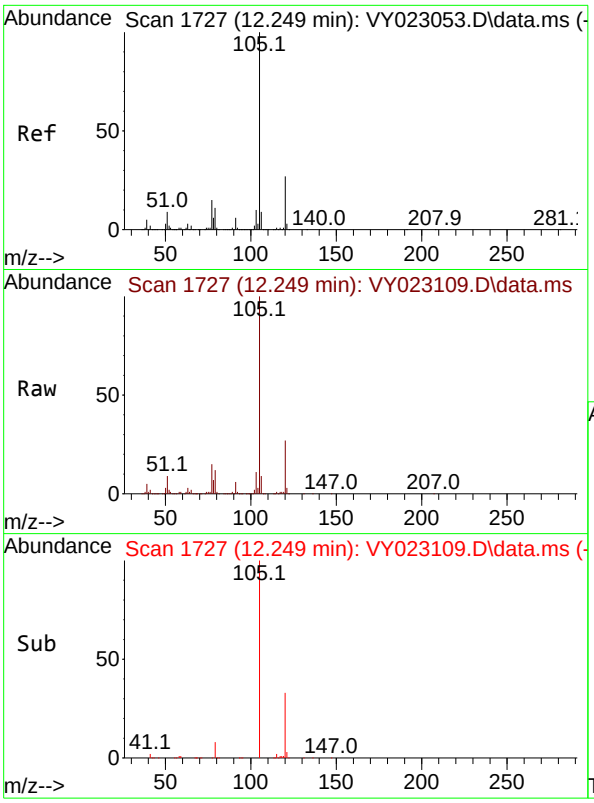


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:152 Resp: 327747

Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.2	84.6
150	173.7	0.0	348.0



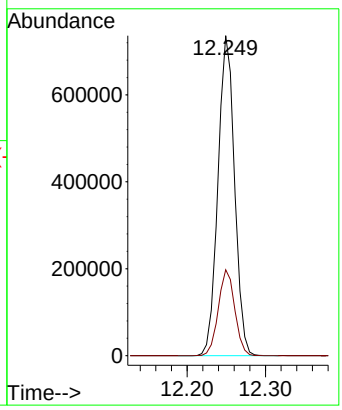


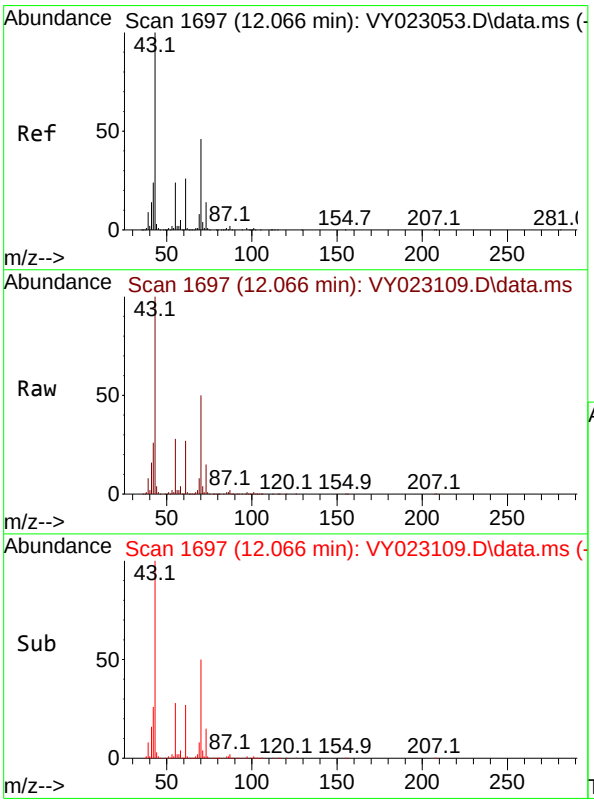
#73
Isopropylbenzene
Concen: 46.938 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1085768

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.4	40.2

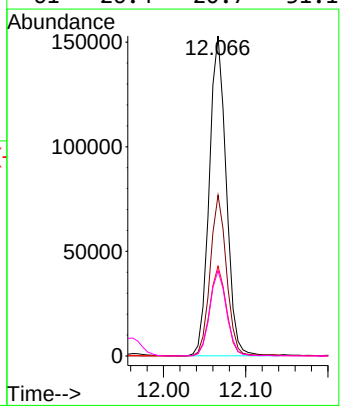


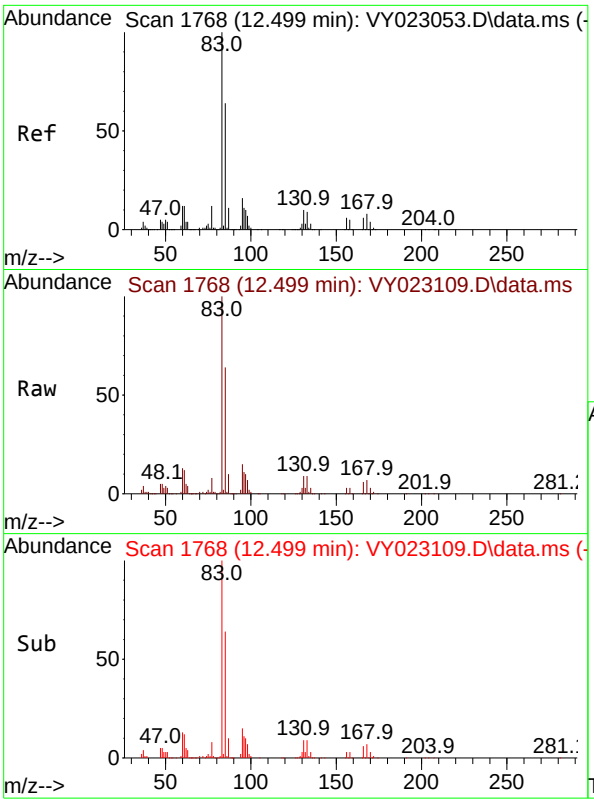


#74
N-amyl acetate
Concen: 44.606 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 218818

Ion	Ratio	Lower	Upper
43	100		
70	48.4	37.5	56.3
55	27.2	20.7	31.1
61	26.4	20.7	31.1



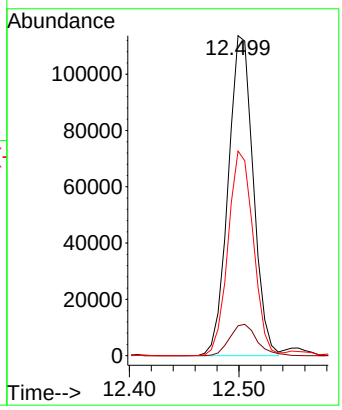


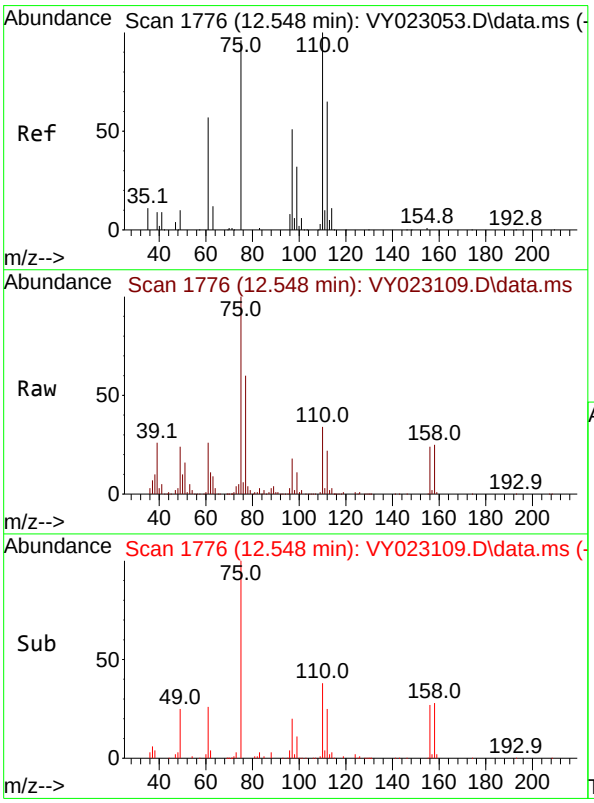
#75
1,1,2,2-Tetrachloroethane
Concen: 45.802 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 180905

Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	64.5	31.8	95.3

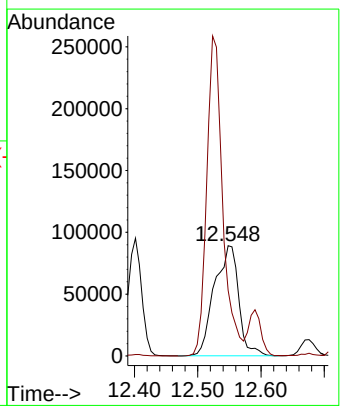


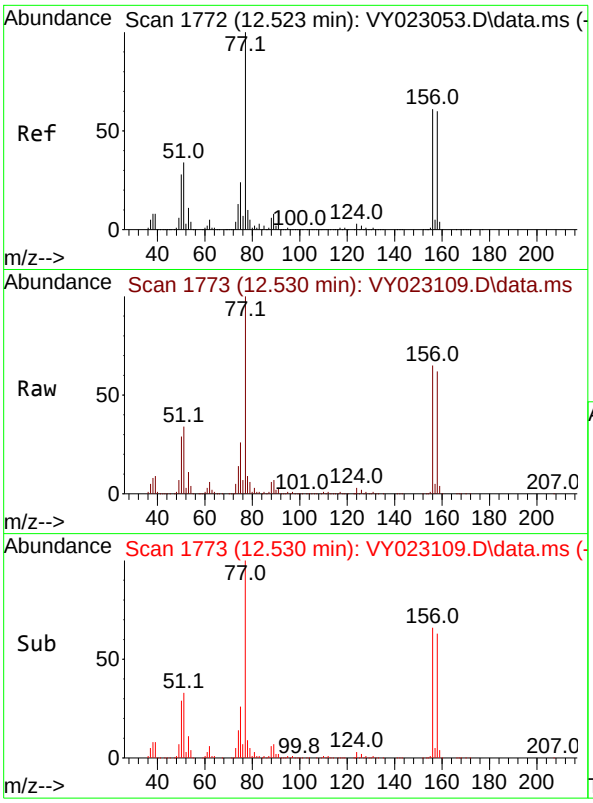


#76
1,2,3-Trichloropropane
Concen: 74.861 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 236792

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



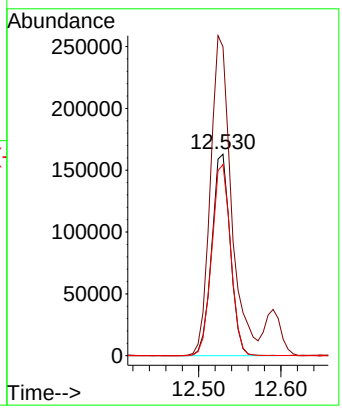


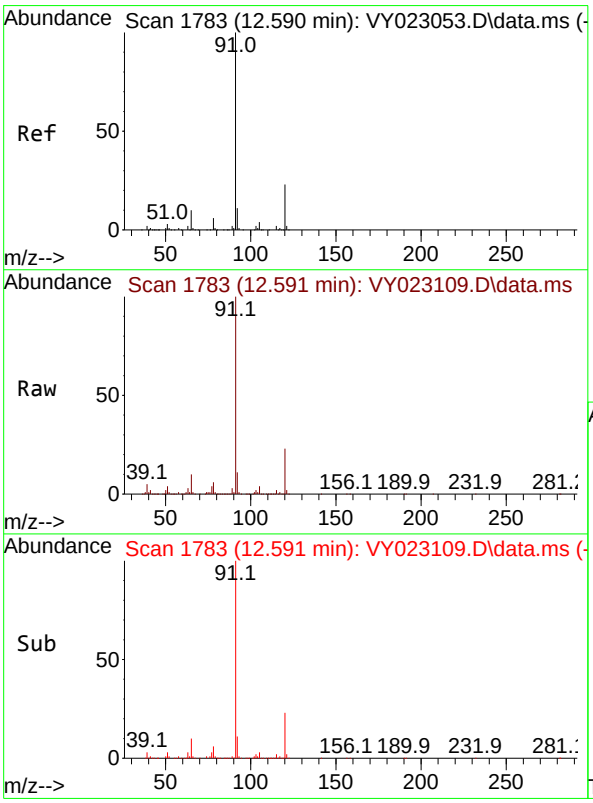
#77
Bromobenzene
Concen: 46.165 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 254766

Ion	Ratio	Lower	Upper
156	100		
77	179.4	88.1	264.4
158	96.6	48.0	144.0

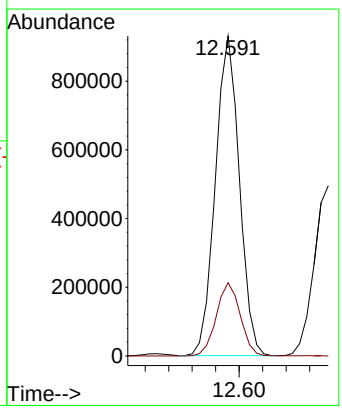


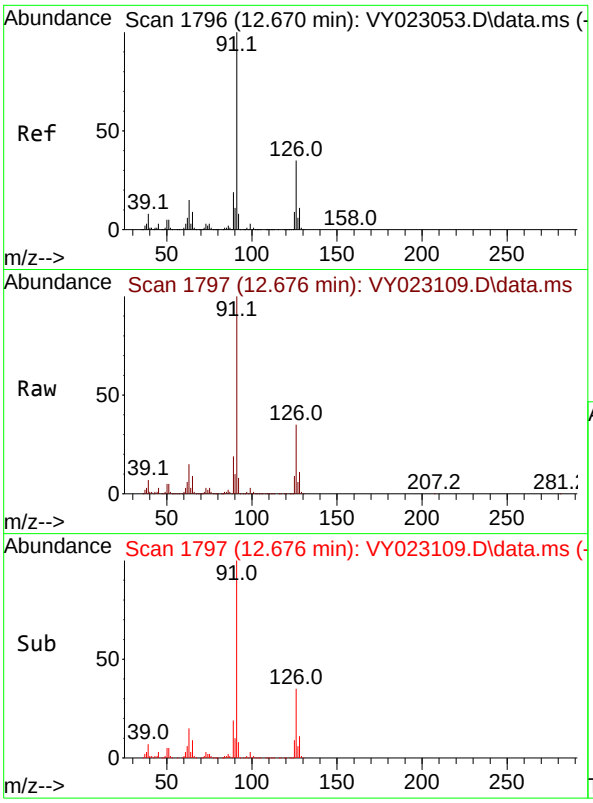


#78
n-propylbenzene
Concen: 47.987 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 1321560

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.5	34.5



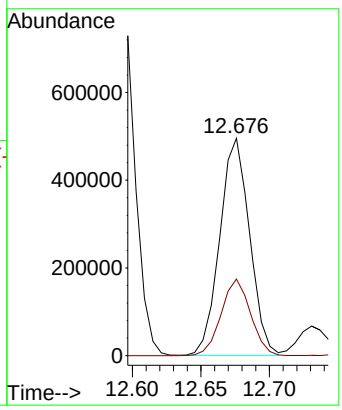


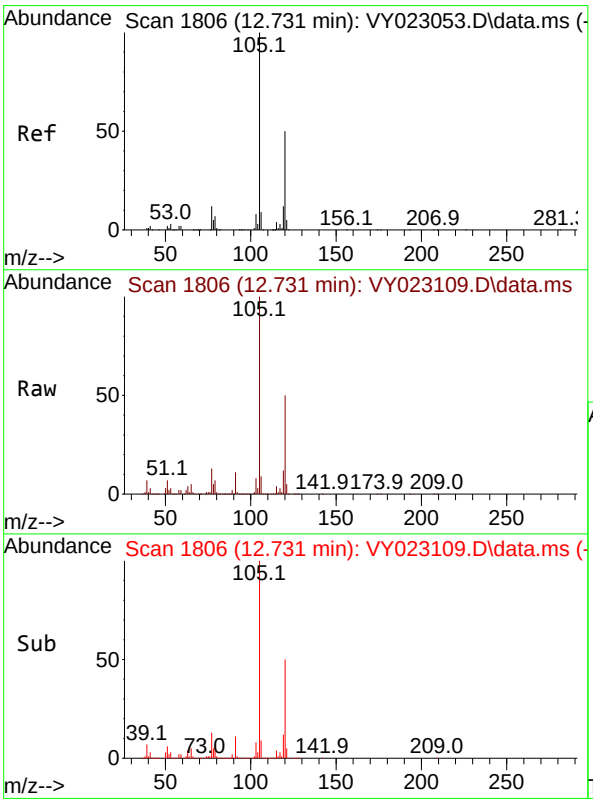
#79
2-Chlorotoluene
Concen: 47.529 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 749983

Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.4	52.3

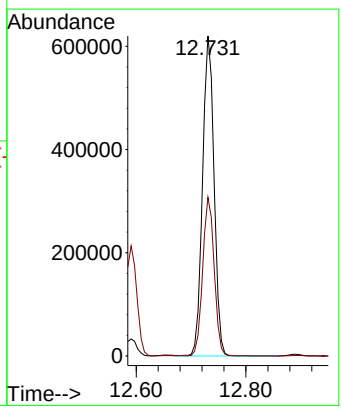


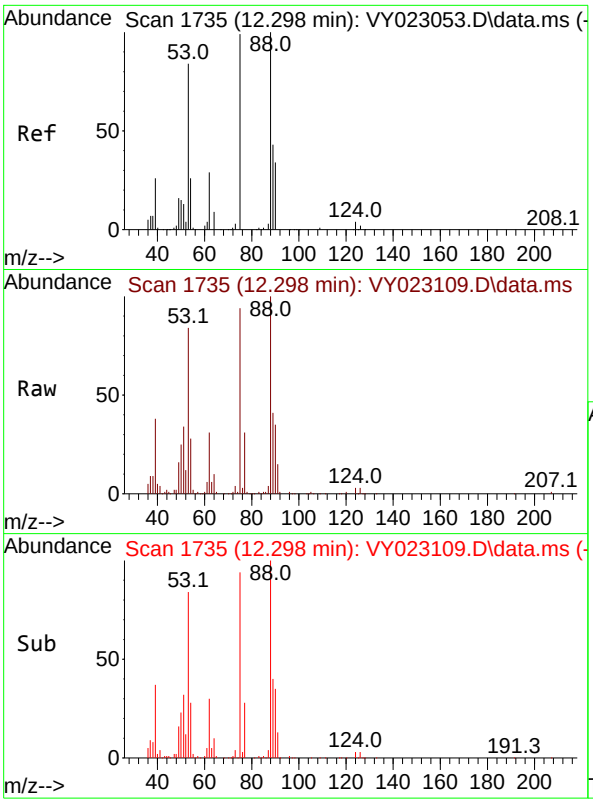


#80
1,3,5-Trimethylbenzene
Concen: 48.207 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 901239

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.8	74.4



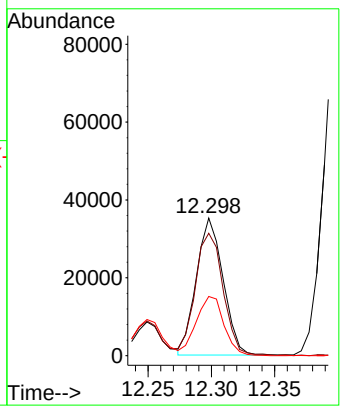


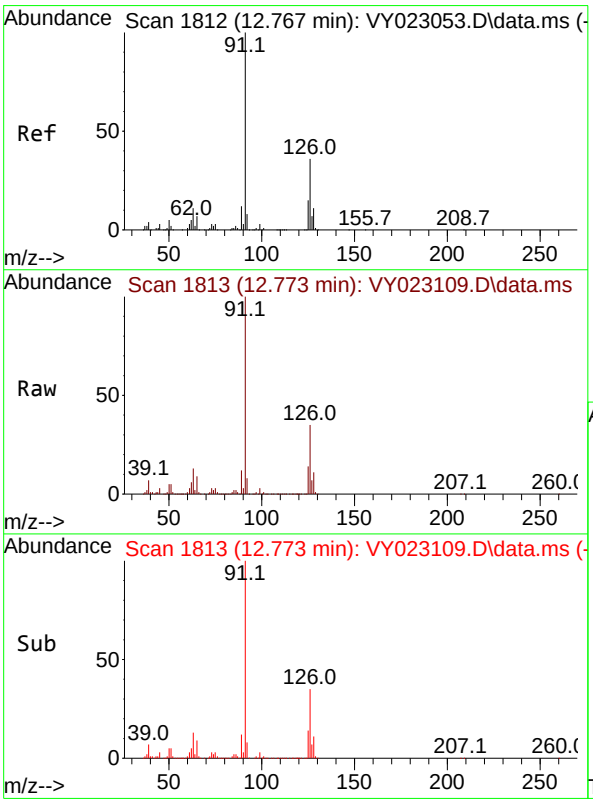
#81
trans-1,4-Dichloro-2-butene
Concen: 39.770 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 51968

Ion	Ratio	Lower	Upper
75	100		
53	94.6	70.8	106.2
89	44.8	38.1	57.1

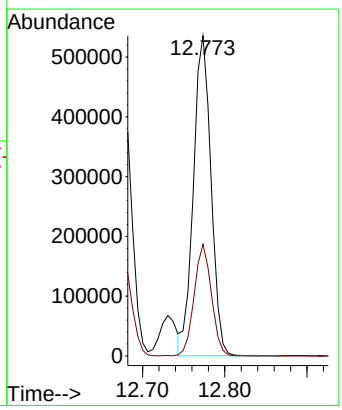


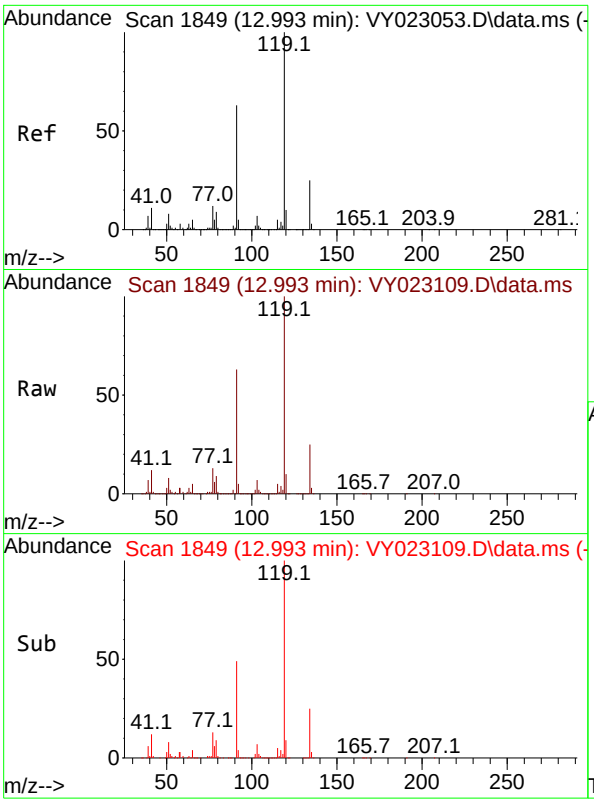


#82
4-Chlorotoluene
Concen: 48.521 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 794254

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.3	52.0



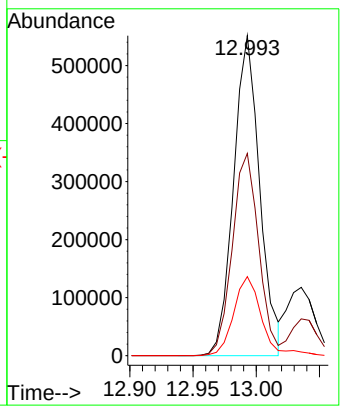


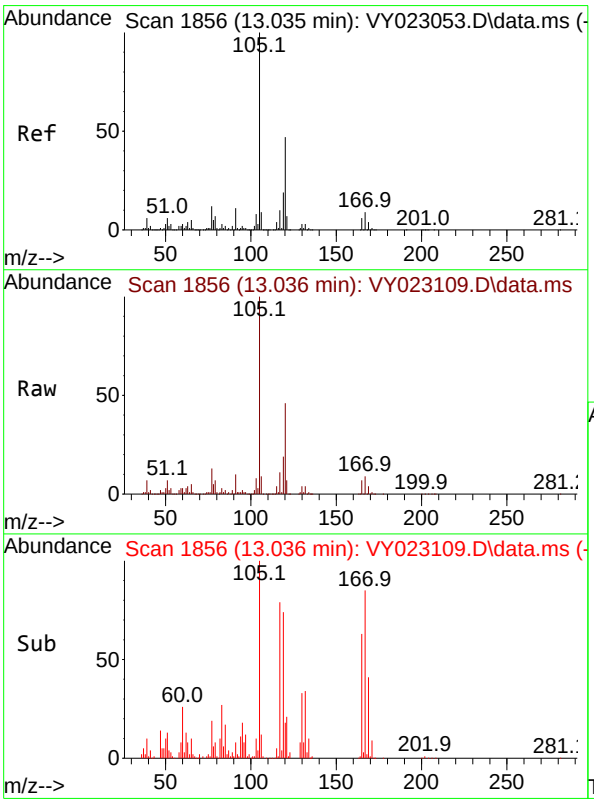
#83
tert-Butylbenzene
Concen: 47.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 794810

Ion	Ratio	Lower	Upper
119	100		
91	63.6	31.6	94.8
134	26.3	12.9	38.7

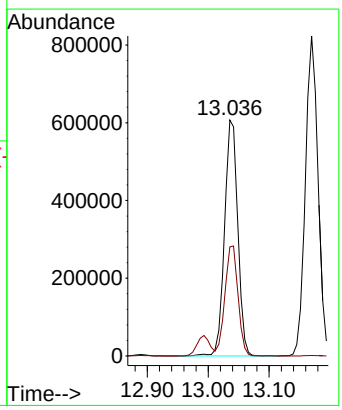


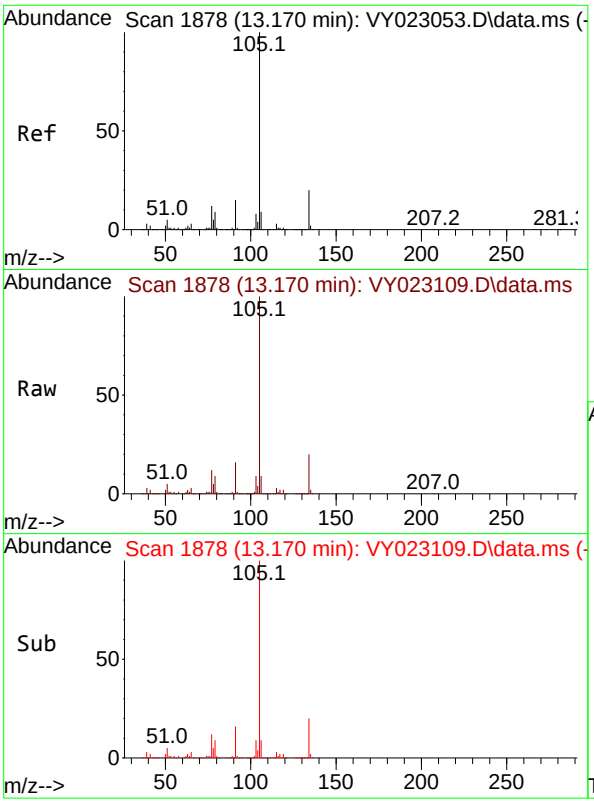


#84
1,2,4-Trimethylbenzene
Concen: 49.211 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 915823

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.0	69.0



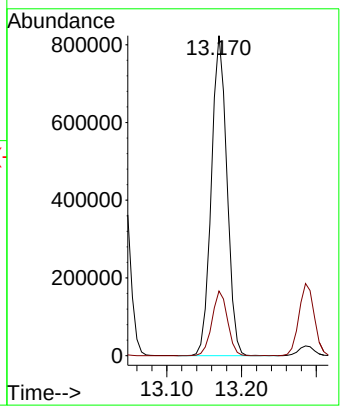


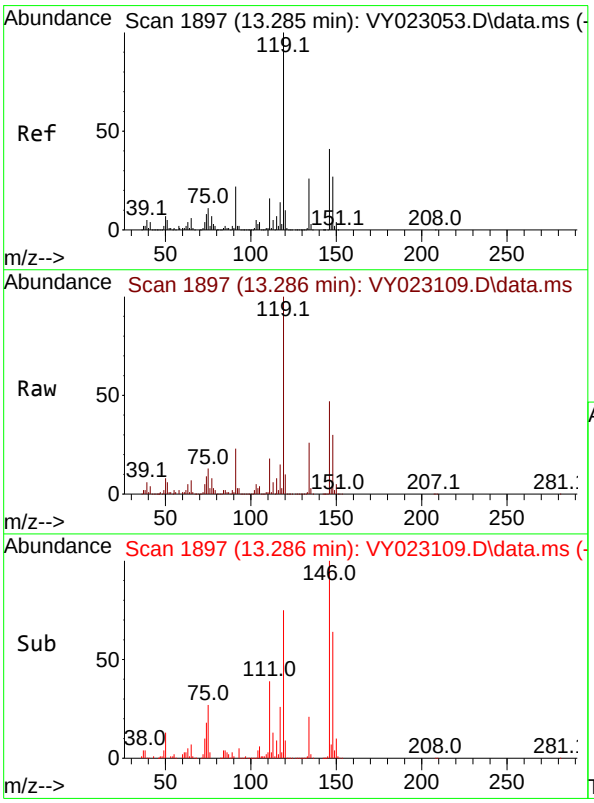
#85
sec-Butylbenzene
Concen: 47.812 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1185899

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.2	30.4

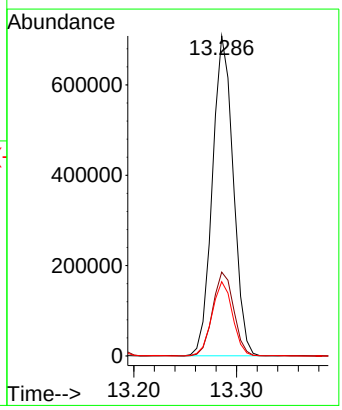


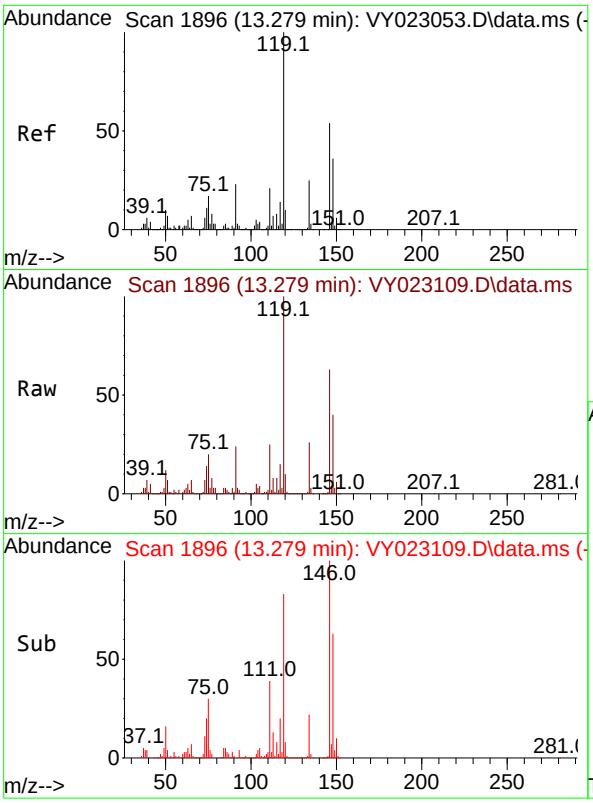


#86
p-Isopropyltoluene
Concen: 48.457 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:119 Resp: 997638

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.2	39.6
91	23.0	11.3	33.8



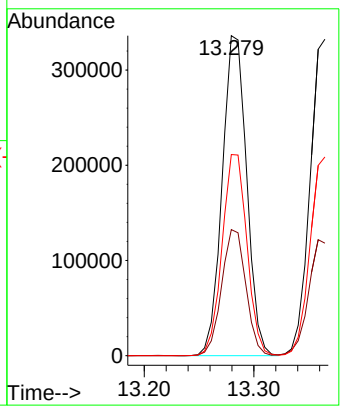


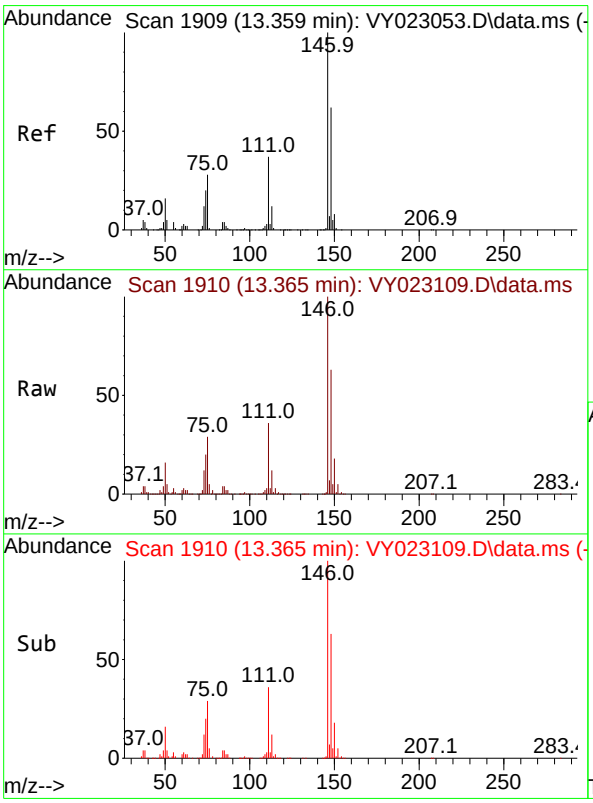
#87
1,3-Dichlorobenzene
Concen: 47.944 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 521768

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.6	58.7
148	63.8	32.5	97.5

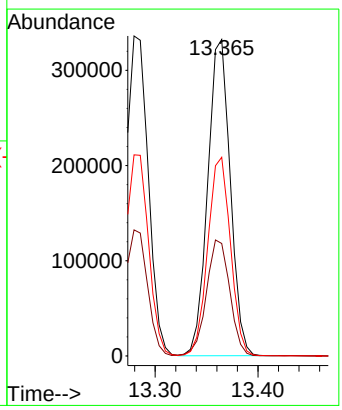


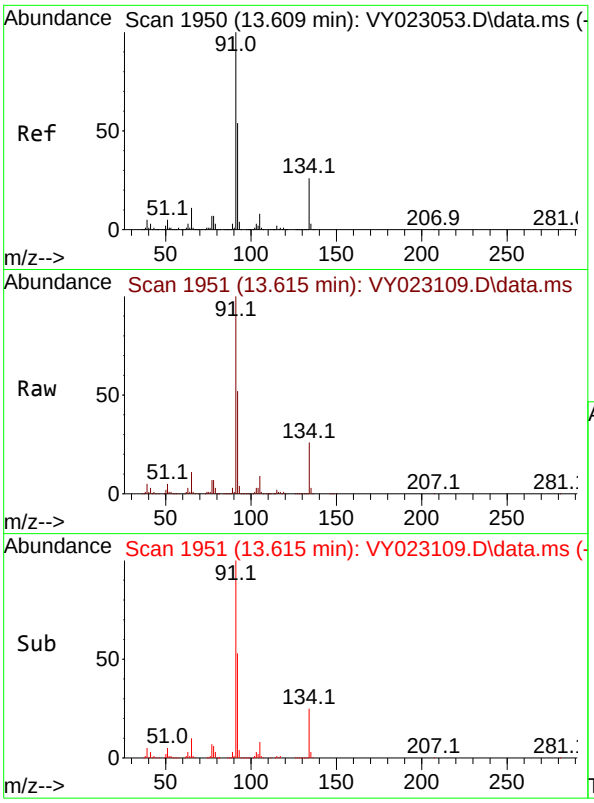


#88
1,4-Dichlorobenzene
Concen: 46.877 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 506066

Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.1
148	63.4	31.6	94.7



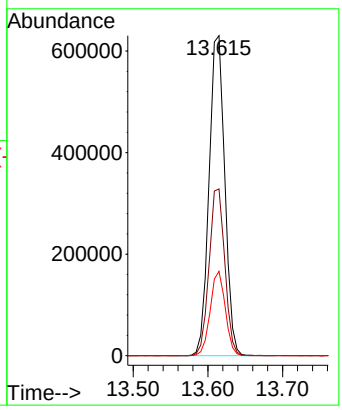


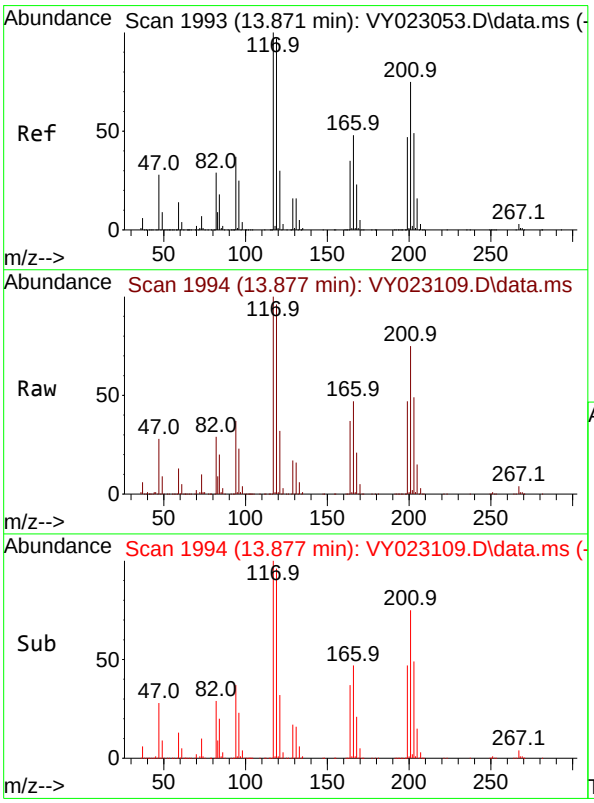
#89
n-Butylbenzene
Concen: 48.761 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 922027

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.7
134	25.2	13.2	39.5

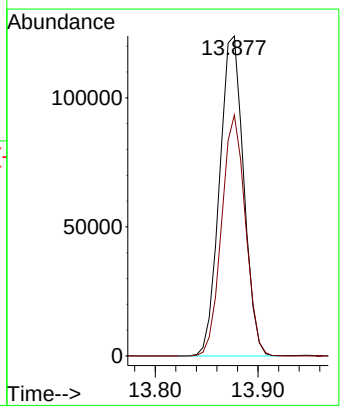


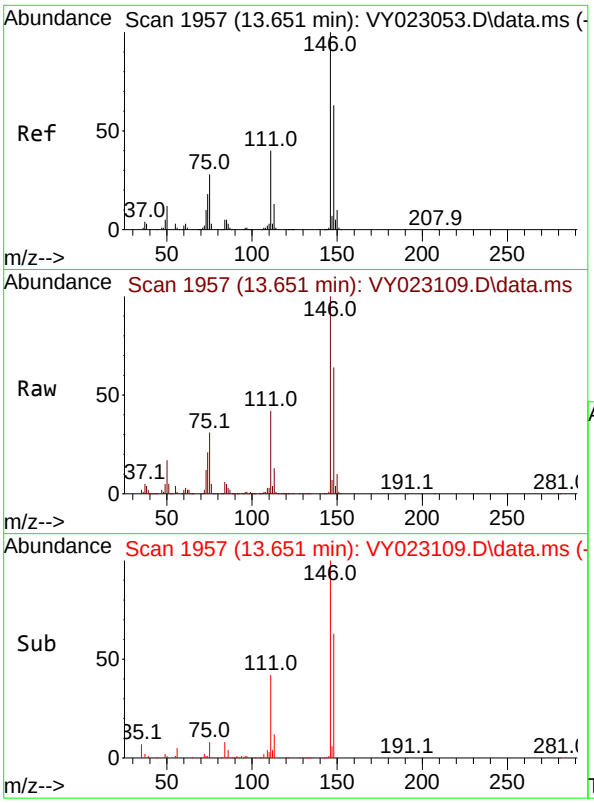


#90
Hexachloroethane
Concen: 47.944 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 202066

Ion	Ratio	Lower	Upper
117	100		
201	74.1	38.4	115.1



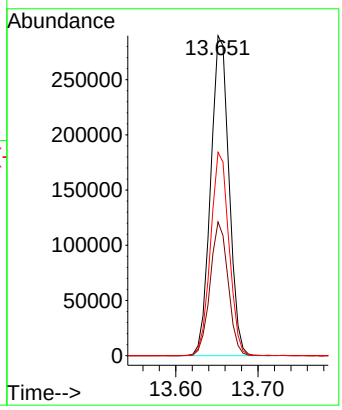


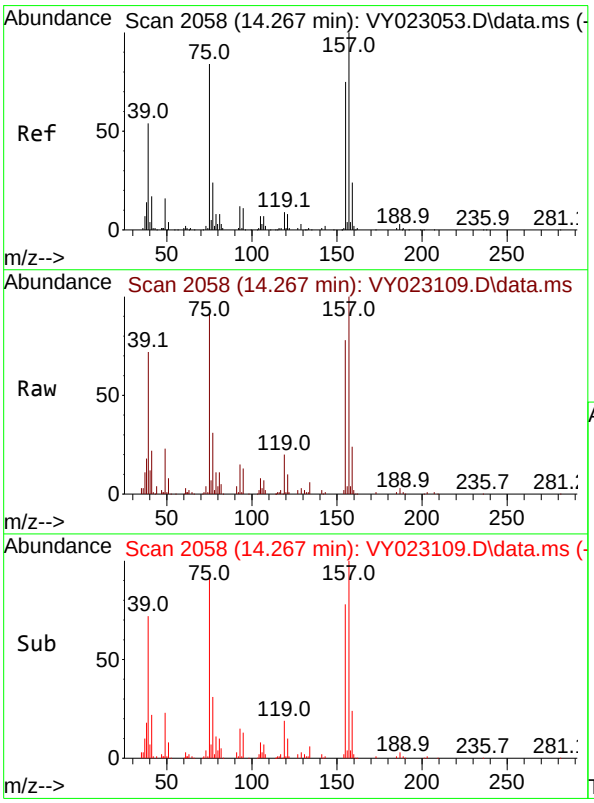
#91
1,2-Dichlorobenzene
Concen: 47.139 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 449904

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.3	60.8
148	63.8	32.2	96.6

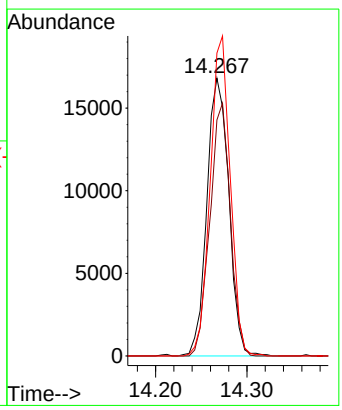


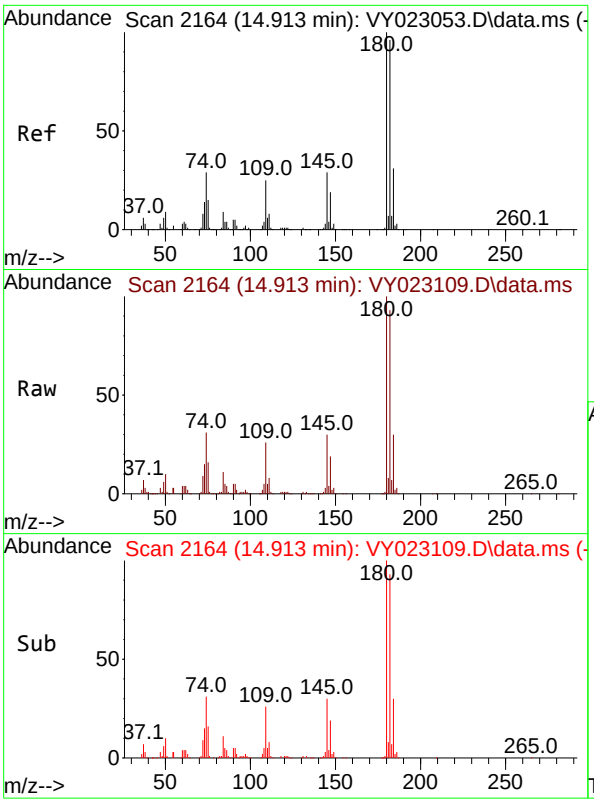


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.509 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 27986

Ion	Ratio	Lower	Upper
75	100		
155	85.1	43.9	131.6
157	105.7	57.2	171.6



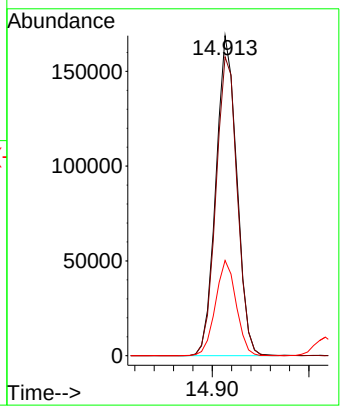


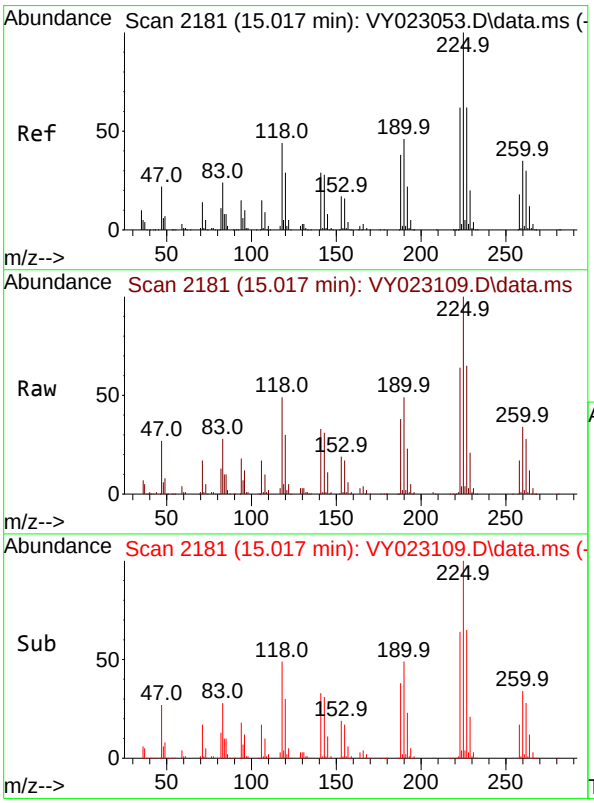
#93
1,2,4-Trichlorobenzene
Concen: 44.744 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 252540

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.8	140.4
145	29.5	14.4	43.4

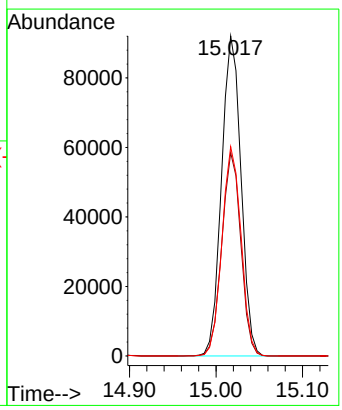


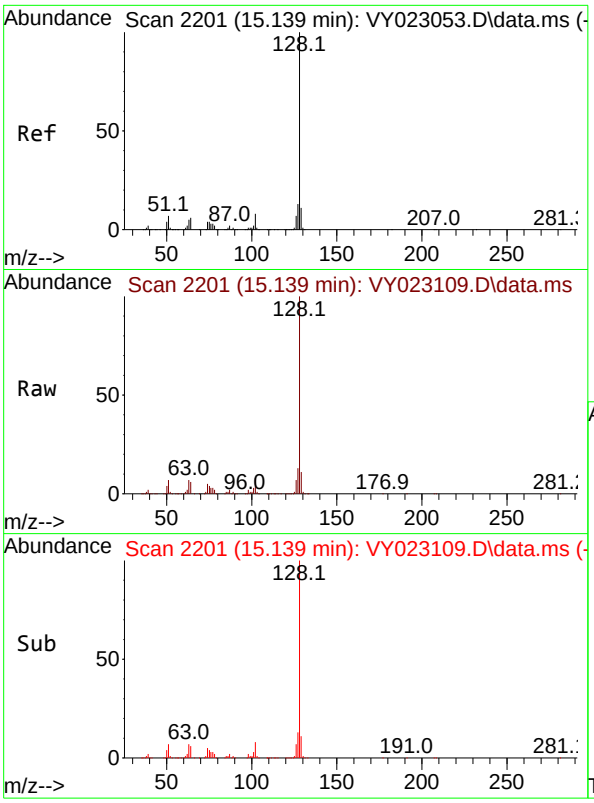


#94
Hexachlorobutadiene
Concen: 43.304 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:225 Resp: 143621

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.3	93.8
227	64.1	31.5	94.5



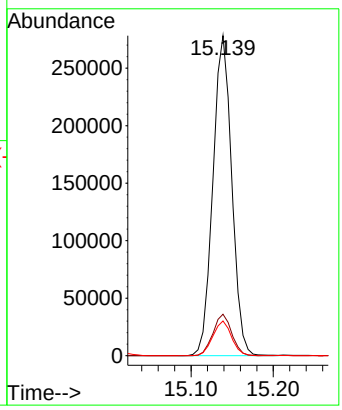


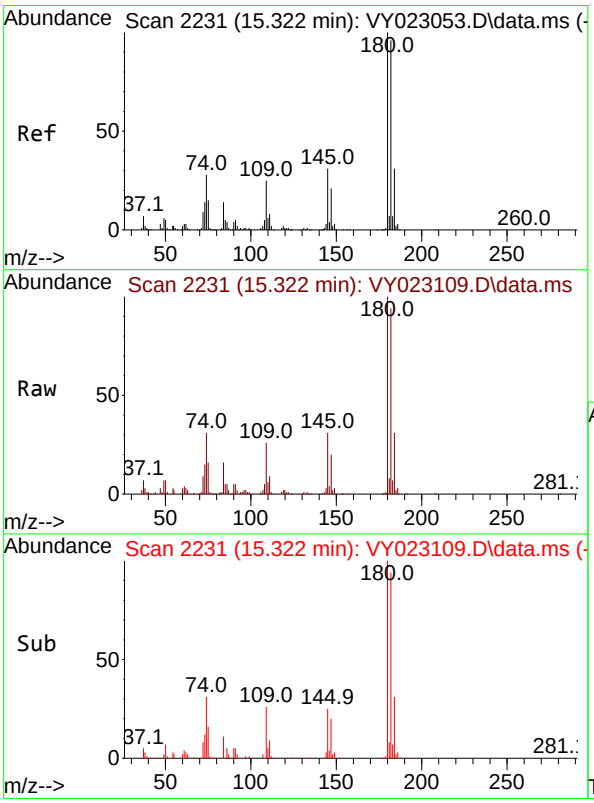
#95
Naphthalene
Concen: 46.067 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 443360

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.8	9.0	13.4

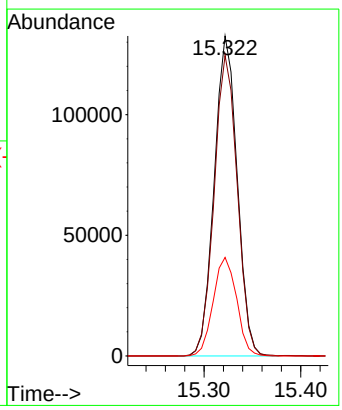




#96
1,2,3-Trichlorobenzene
Concen: 44.896 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:180 Resp: 218352

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.9	143.7
145	31.4	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

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)
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

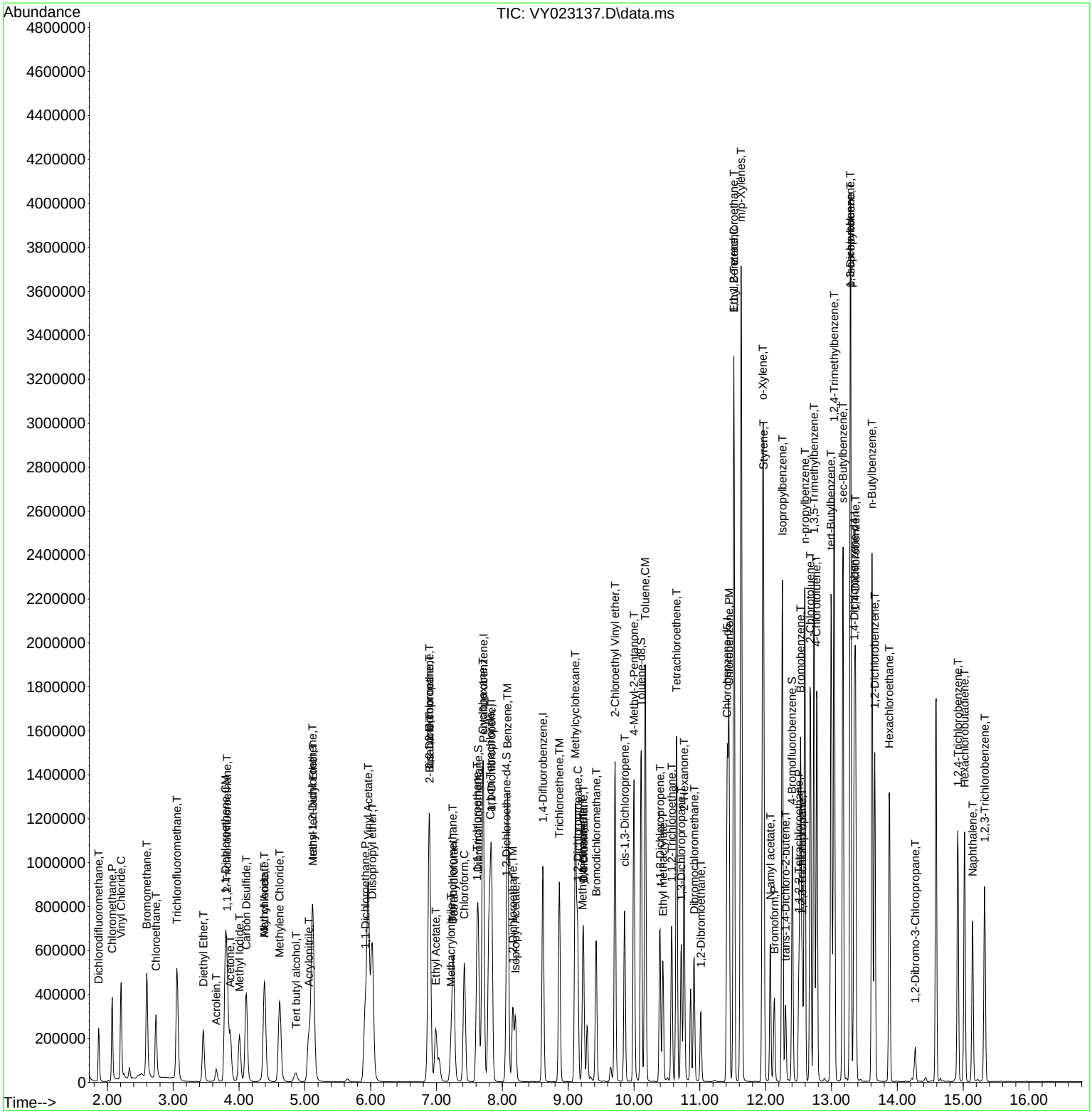
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

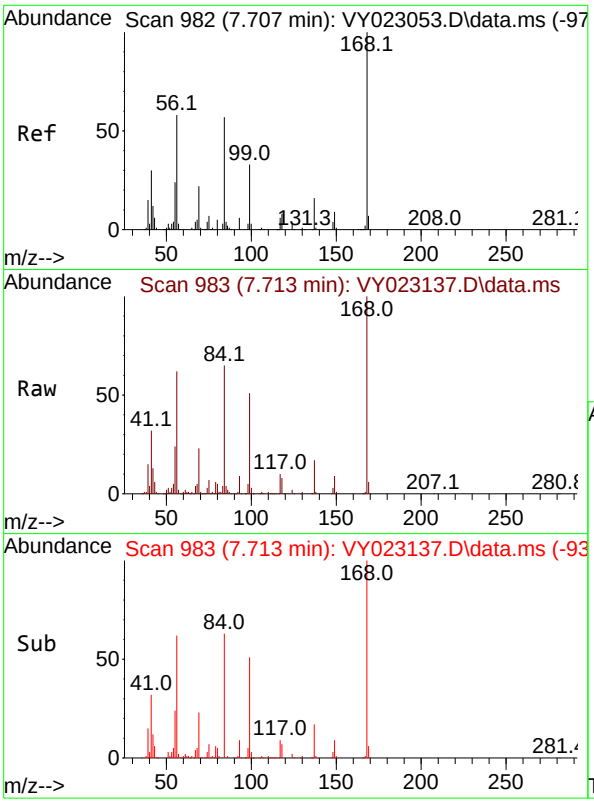
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



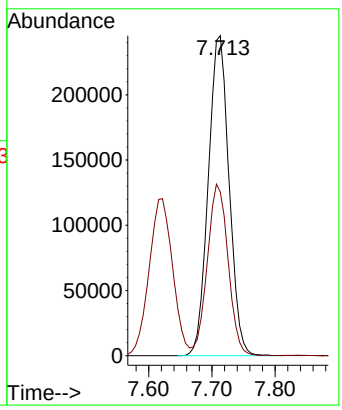


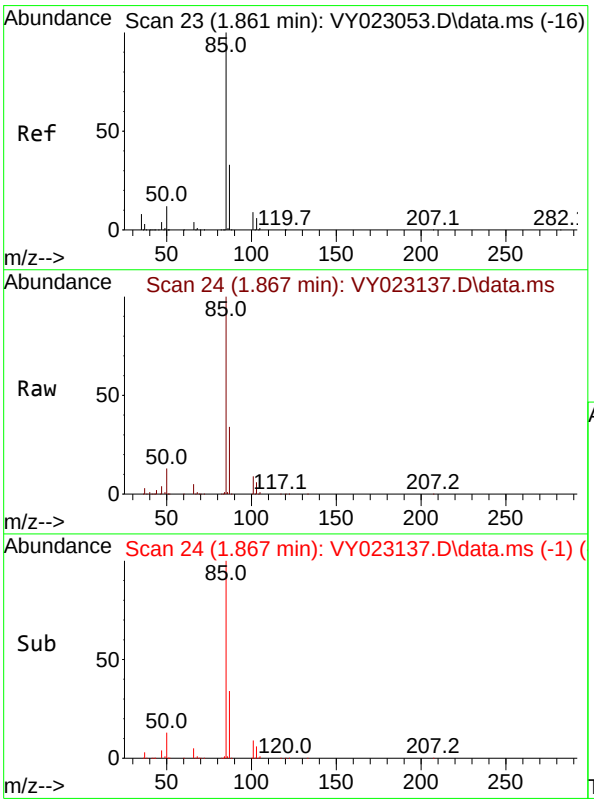
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 560294

Ion	Ratio	Lower	Upper
168	100		
99	51.1	42.8	64.2

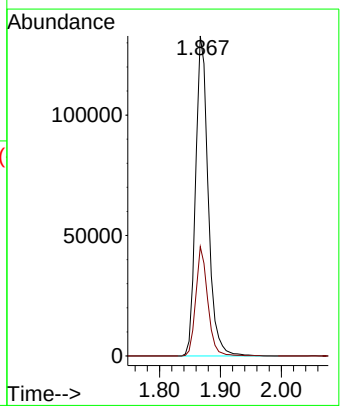


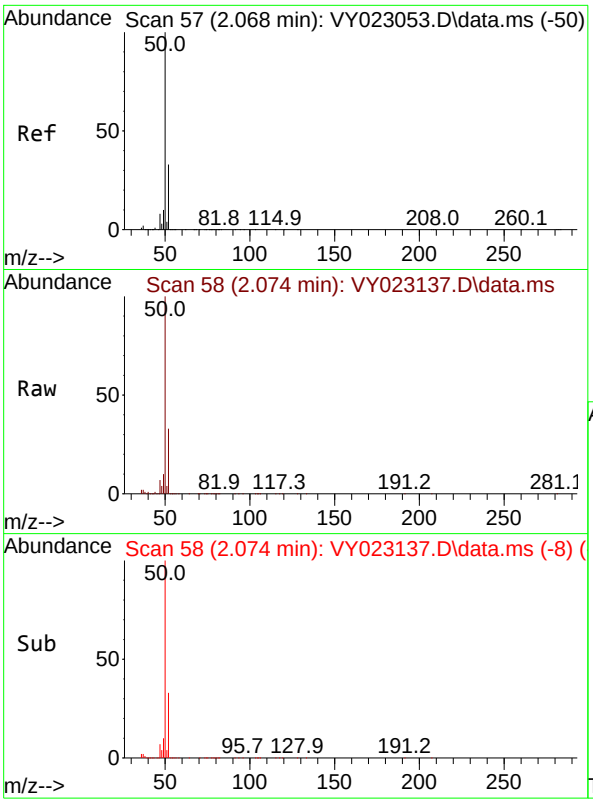


#2
Dichlorodifluoromethane
Concen: 41.557 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 85 Resp: 190057

Ion	Ratio	Lower	Upper
85	100		
87	34.2	16.6	49.8



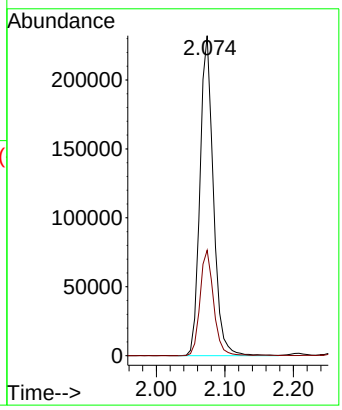


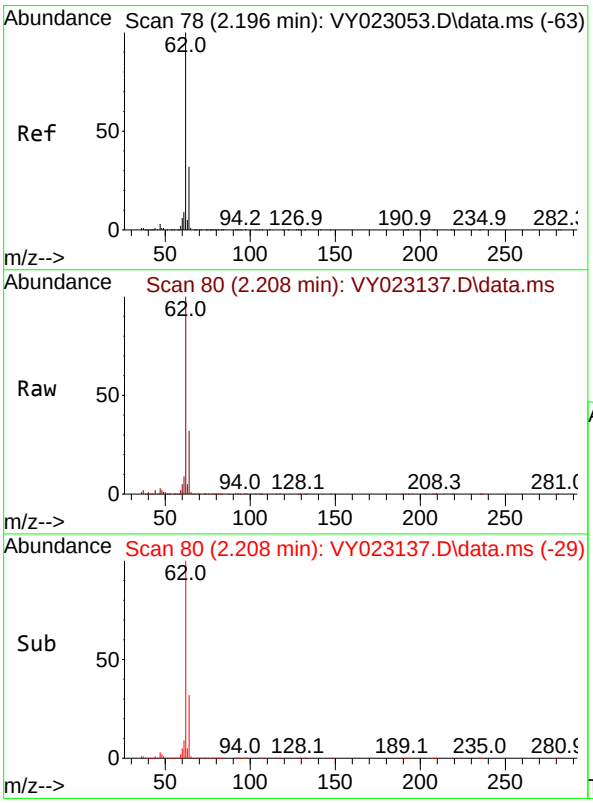
#3
Chloromethane
Concen: 42.705 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 316334

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.7	40.1

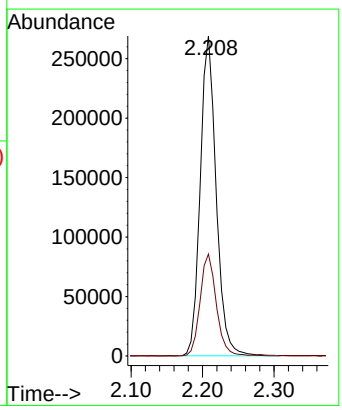


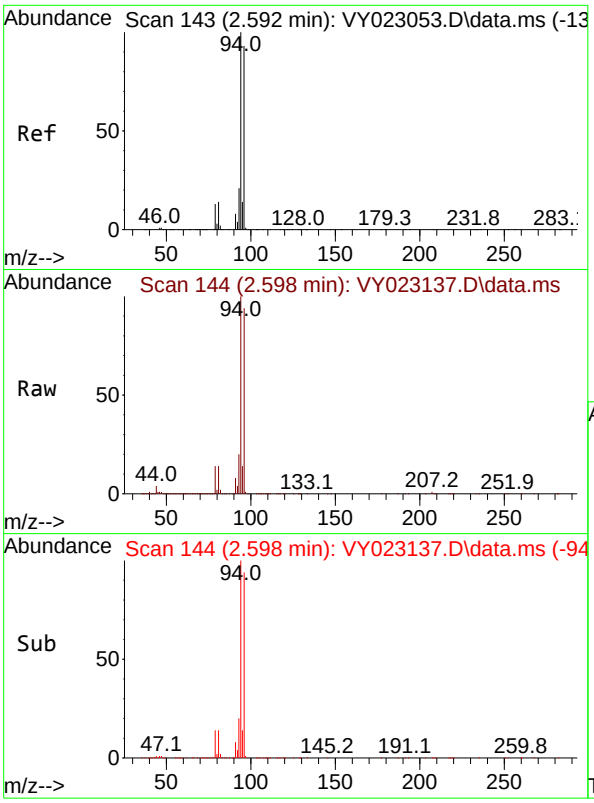


#4
Vinyl Chloride
Concen: 45.491 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 416548

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0



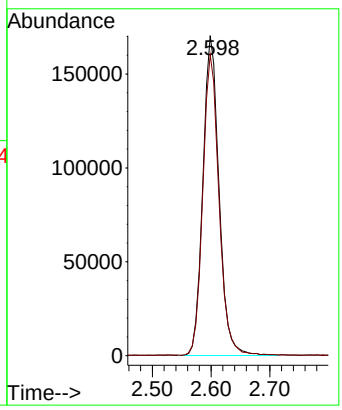


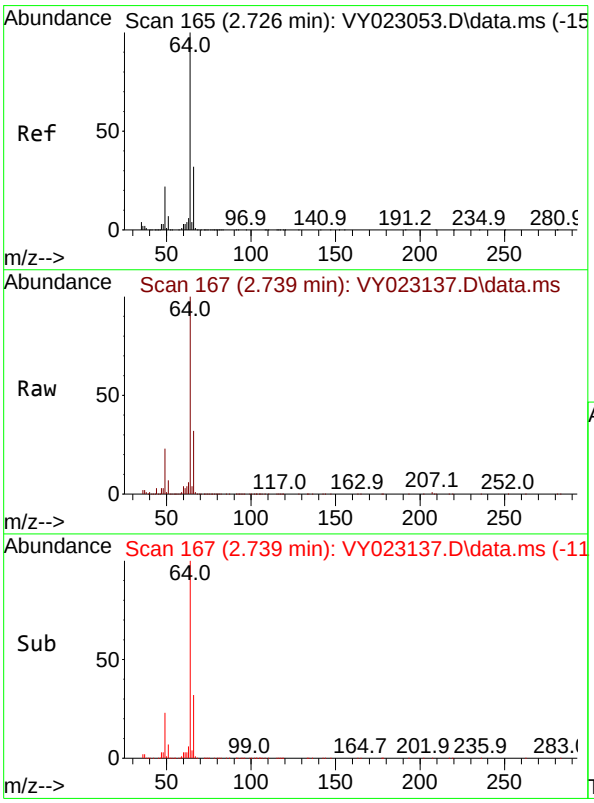
#5
Bromomethane
Concen: 47.481 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 324698

Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.6	112.0

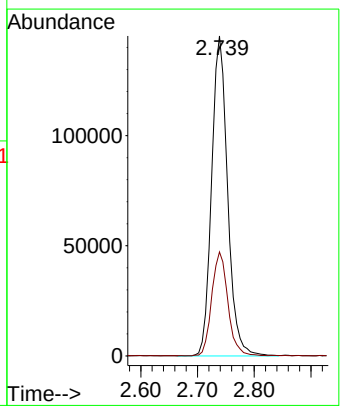


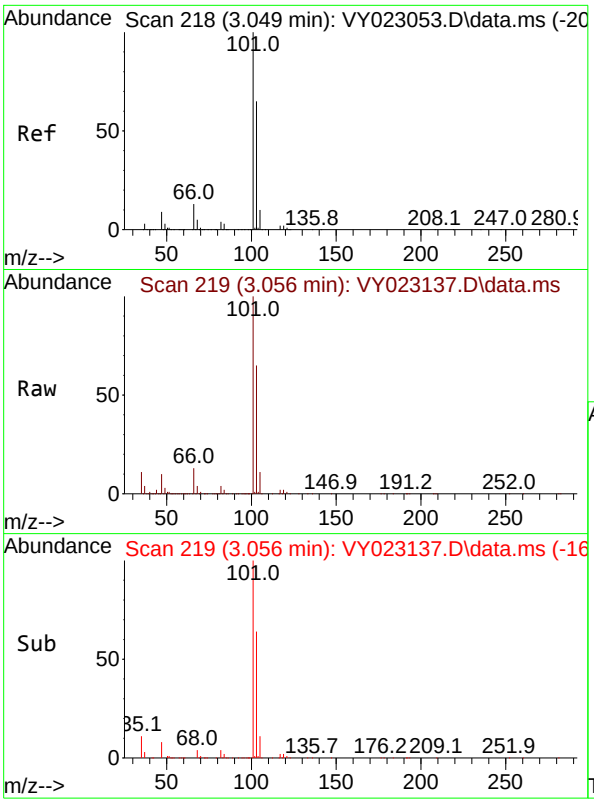


#6
Chloroethane
Concen: 46.683 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 64 Resp: 284191

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.8	38.6



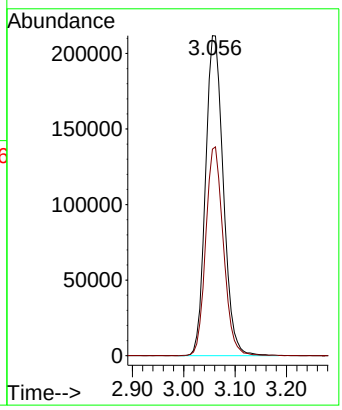


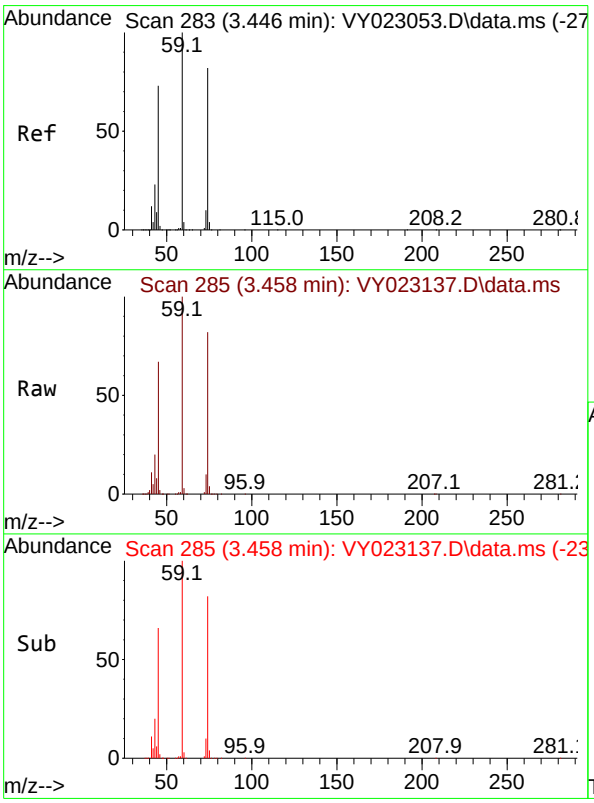
#7
Trichlorofluoromethane
Concen: 45.708 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 508922

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.9	77.9

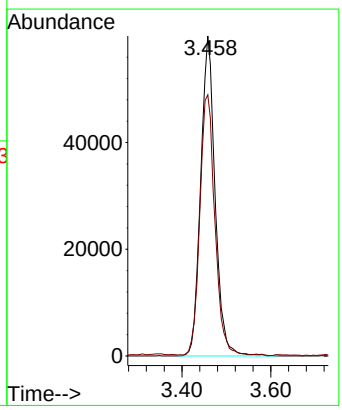


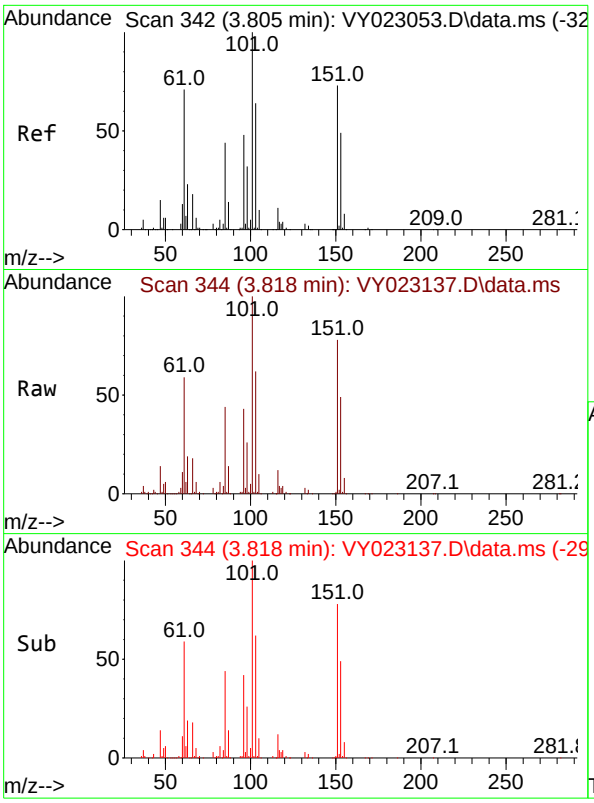


#8
Diethyl Ether
Concen: 46.102 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 74 Resp: 135802

Ion	Ratio	Lower	Upper
74	100		
45	84.4	44.4	133.2



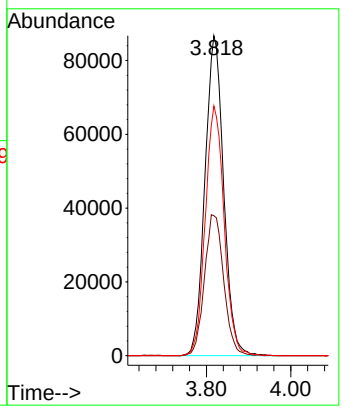


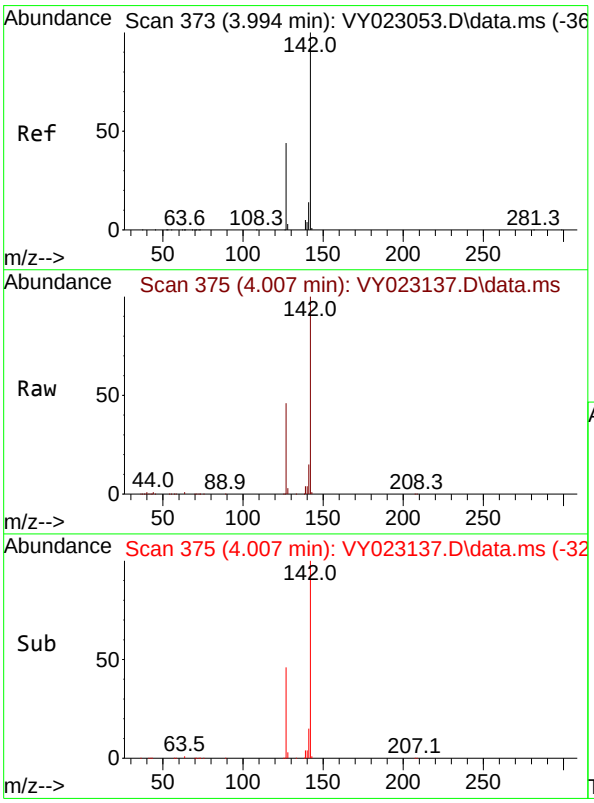
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.569 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

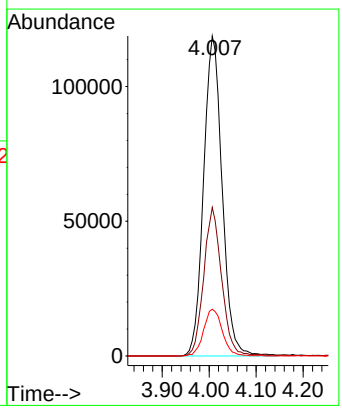


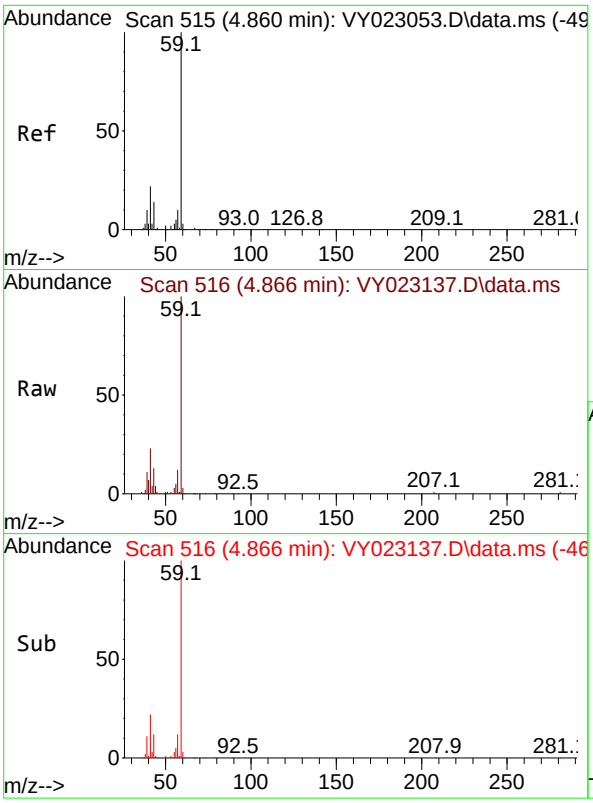


#10
Methyl Iodide
Concen: 54.916 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



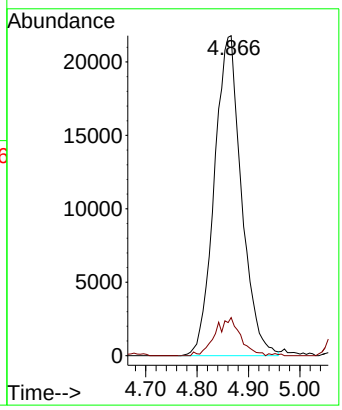


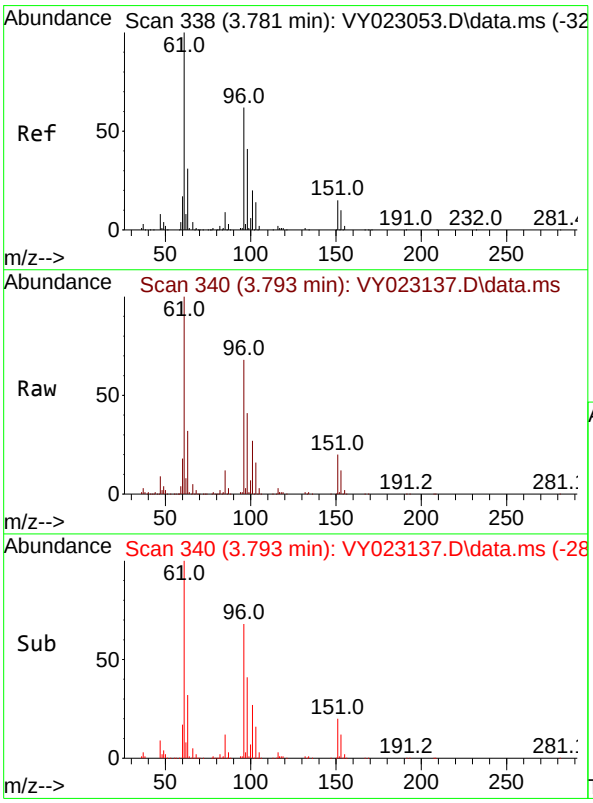
#11
Tert butyl alcohol
Concen: 218.191 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 79834

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0

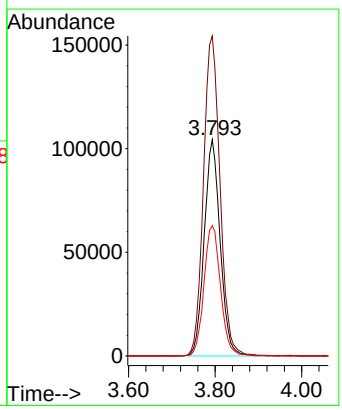


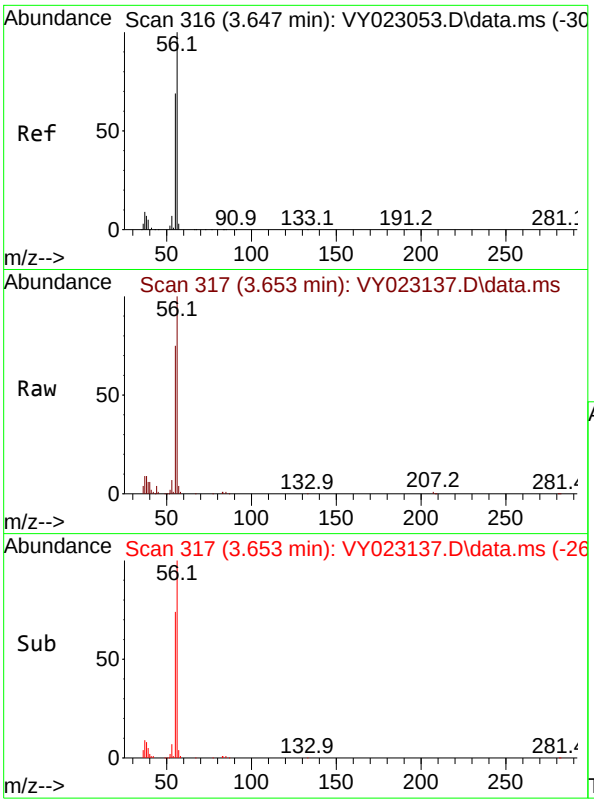


#12
1,1-Dichloroethene
Concen: 49.491 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



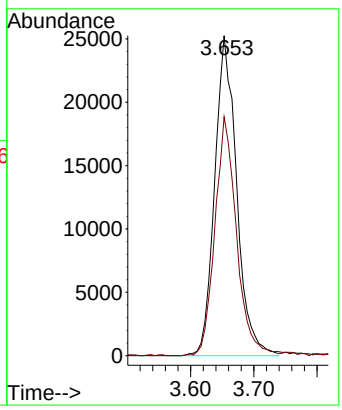


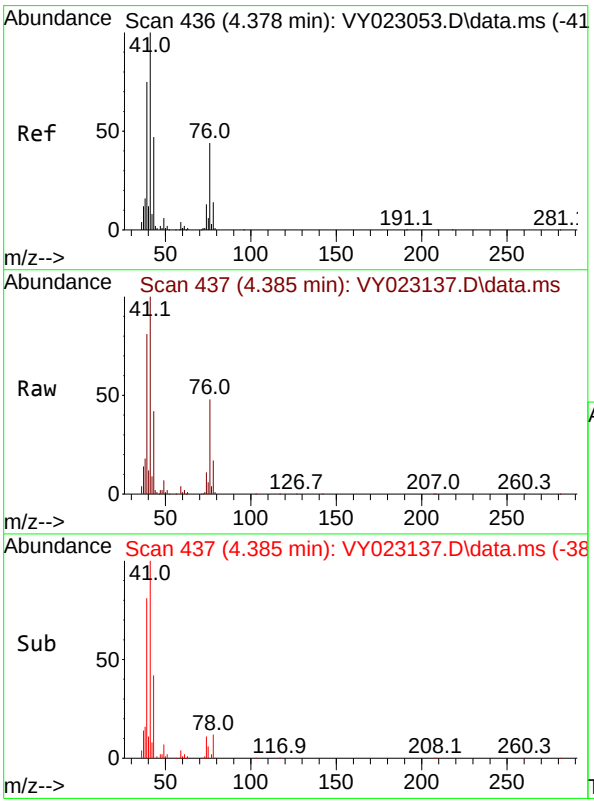
#13
Acrolein
Concen: 113.207 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 60662

Ion	Ratio	Lower	Upper
56	100		
55	74.5	55.2	82.8

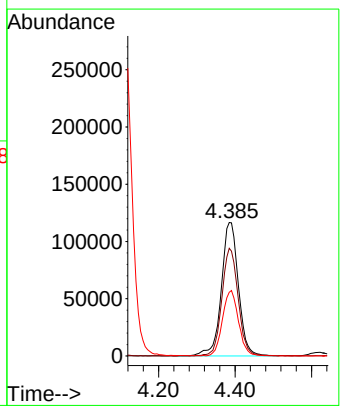


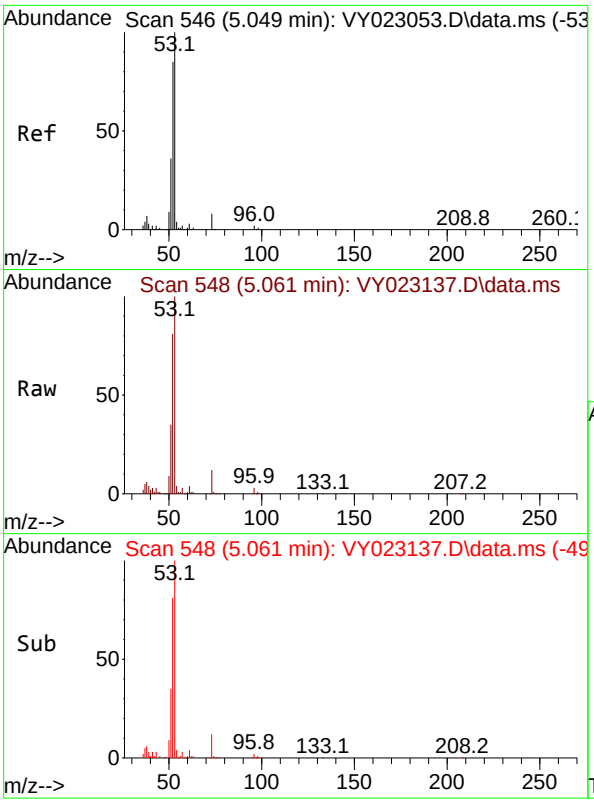


#14
Allyl chloride
Concen: 45.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



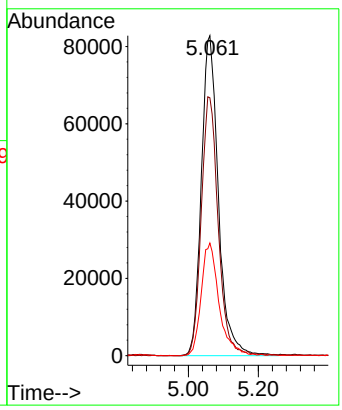


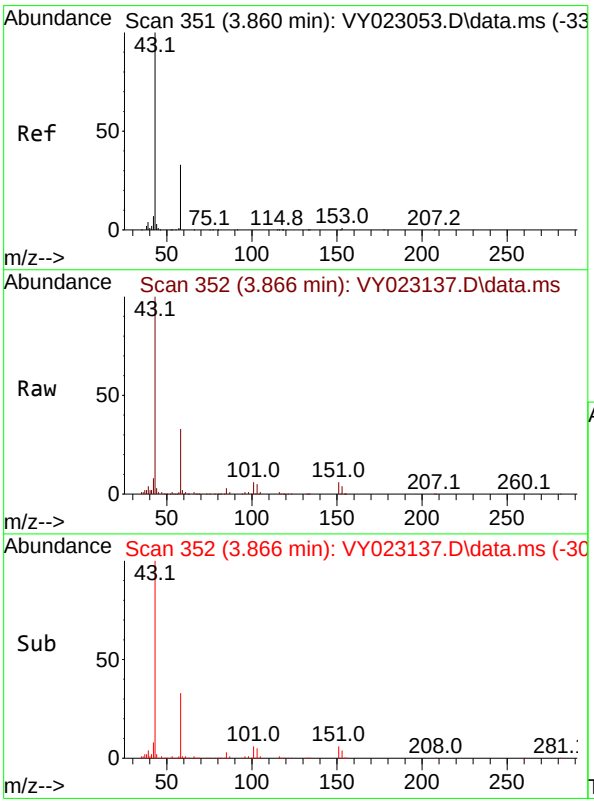
#15
Acrylonitrile
Concen: 233.725 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

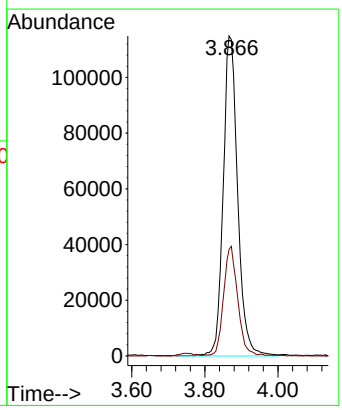


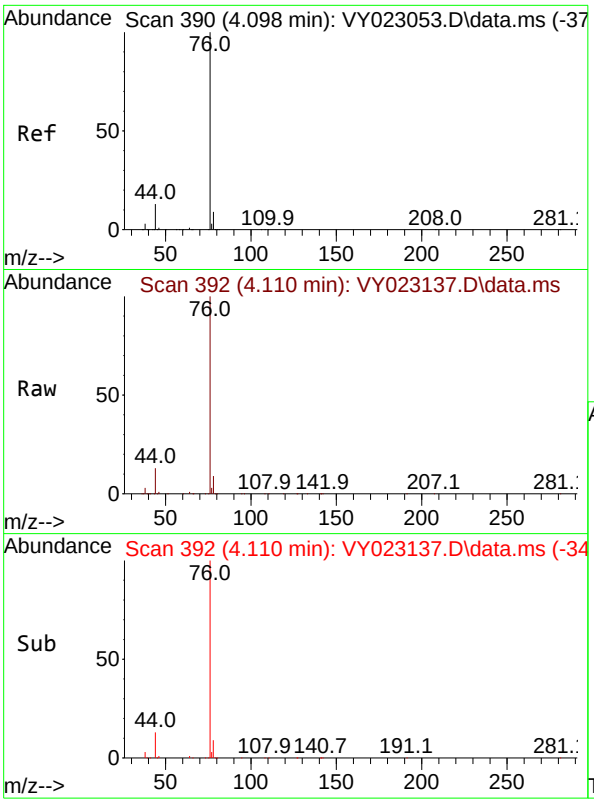


#16
Acetone
Concen: 273.812 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 316768

Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.1	40.7



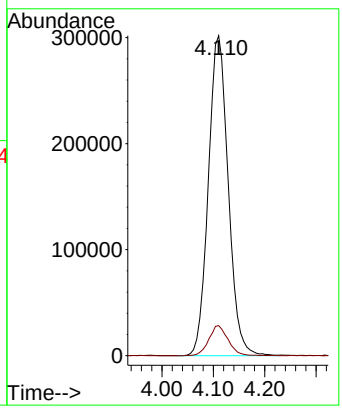


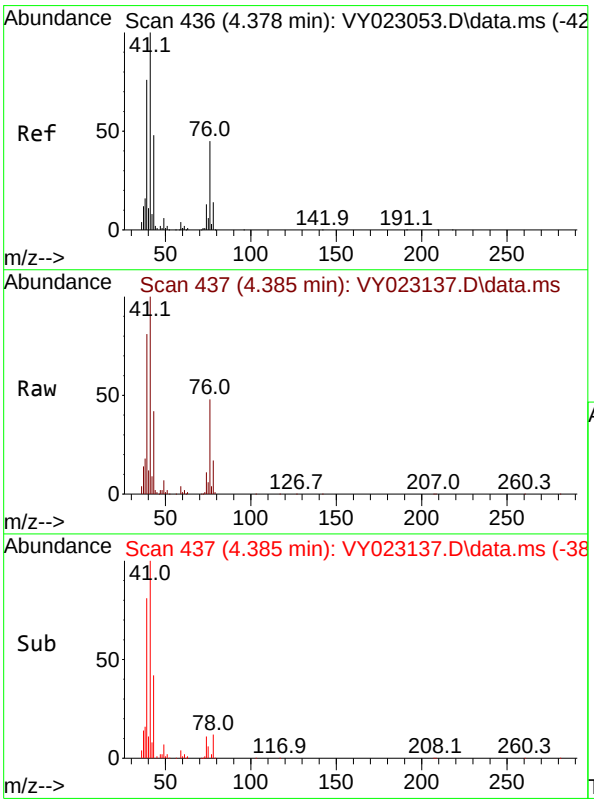
#17
Carbon Disulfide
Concen: 46.117 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 811887

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.2

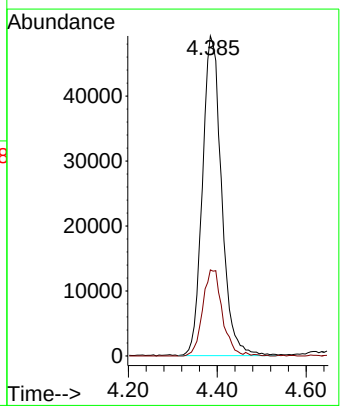


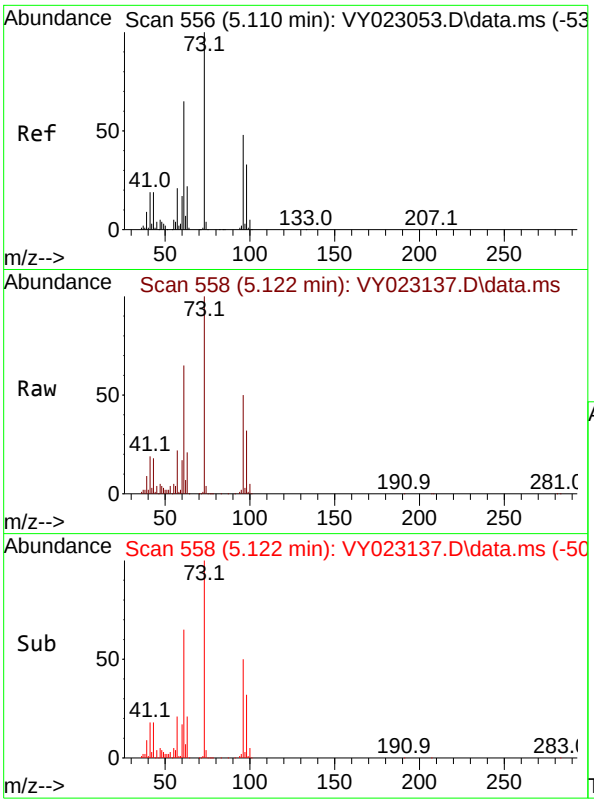


#18
Methyl Acetate
Concen: 42.821 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 147420

Ion	Ratio	Lower	Upper
43	100		
74	27.3	21.2	31.8



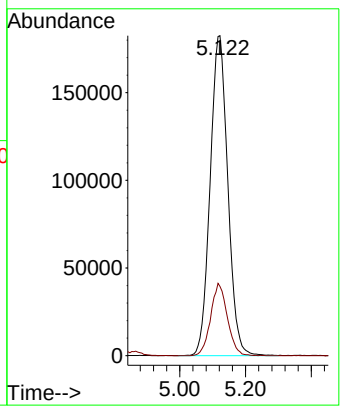


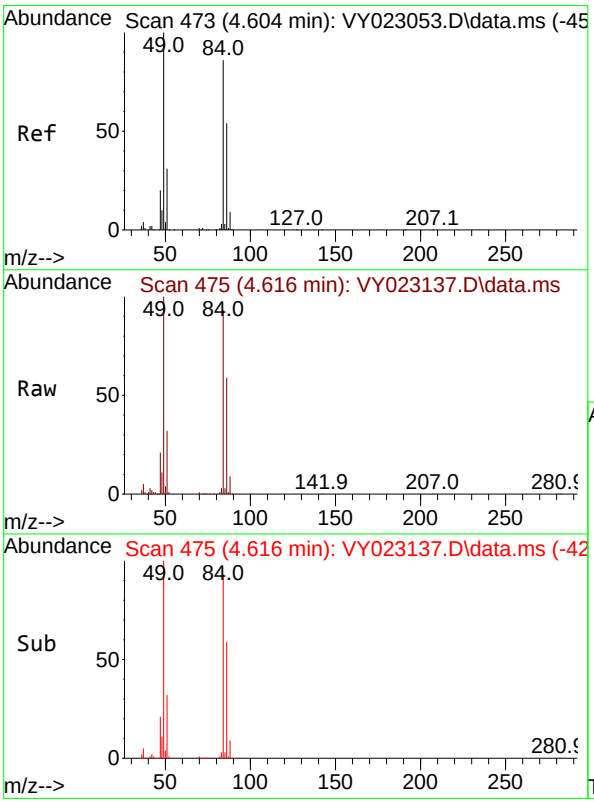
#19
Methyl tert-butyl Ether
Concen: 48.545 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 679197

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.1	25.7

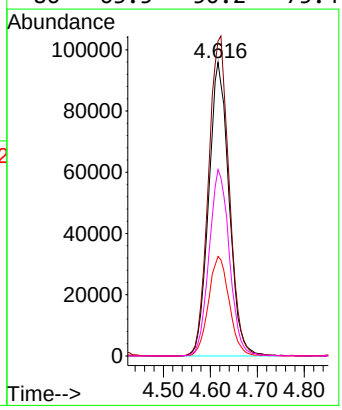


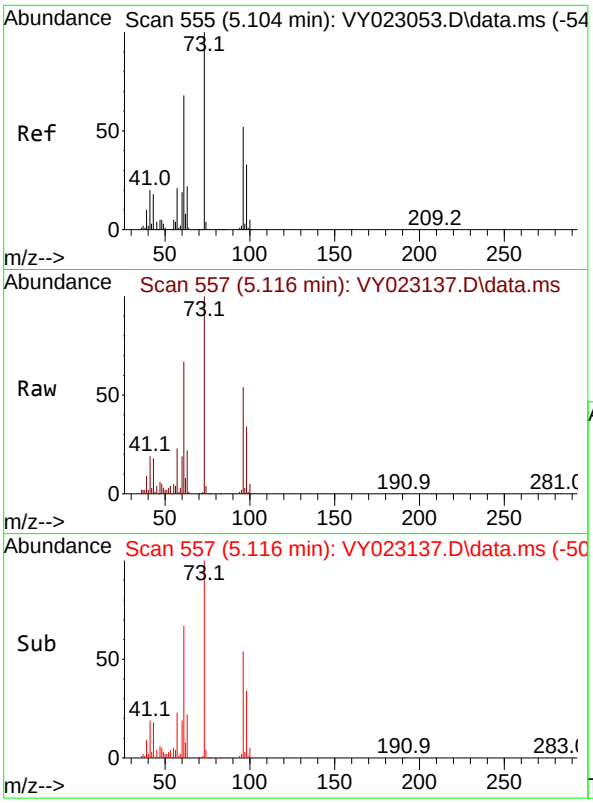


#20
Methylene Chloride
Concen: 47.727 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



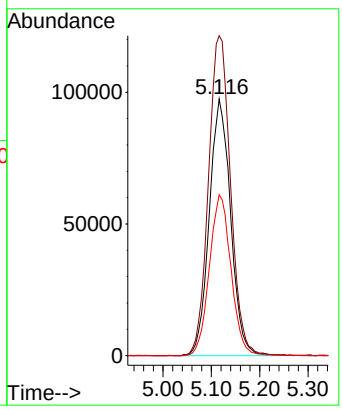


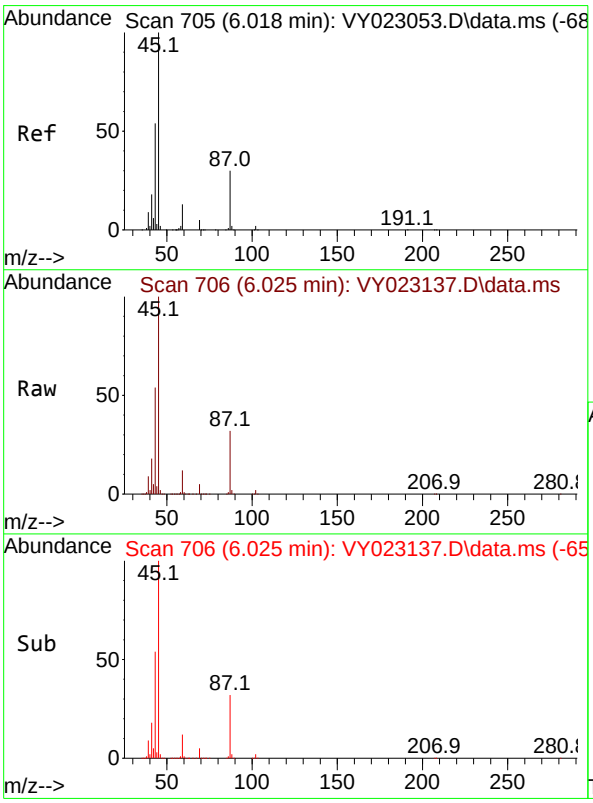
#21
trans-1,2-Dichloroethene
Concen: 49.404 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

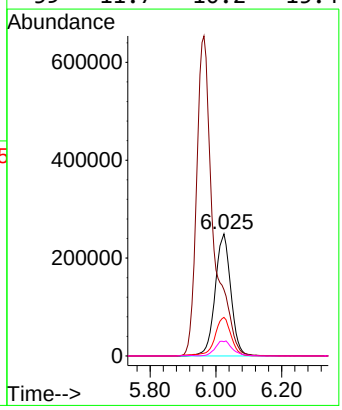


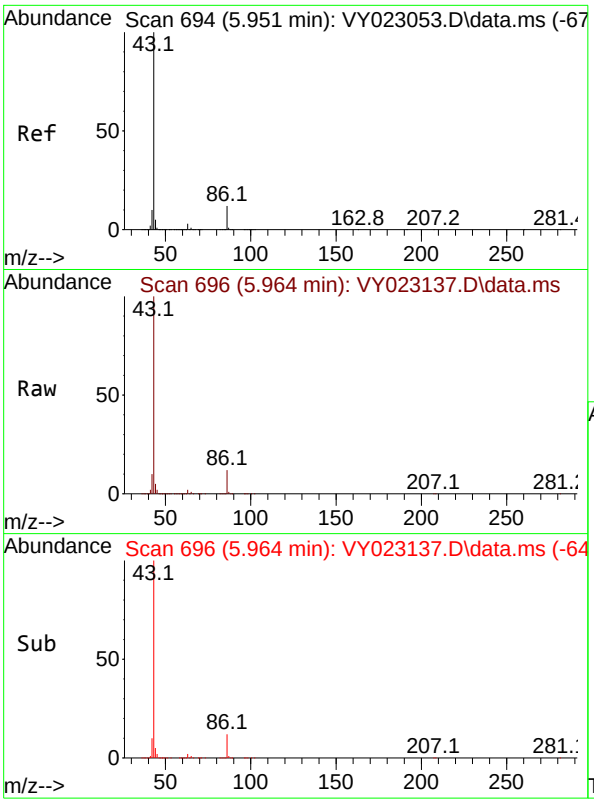


#22
Diisopropyl ether
Concen: 47.793 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



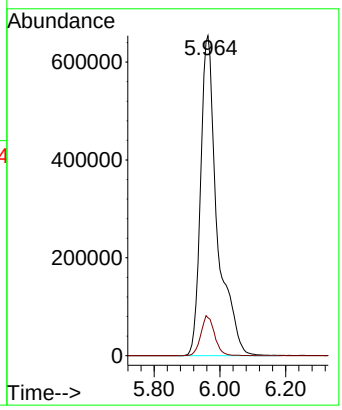


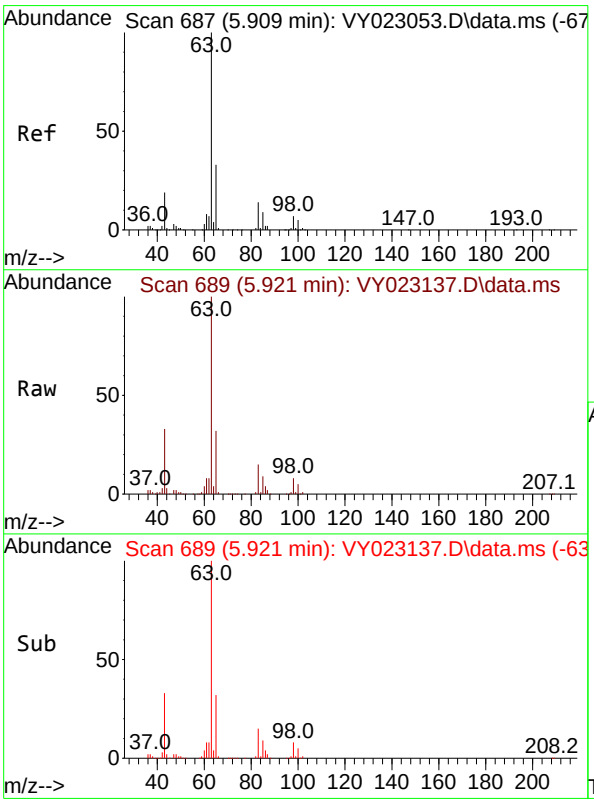
#23
Vinyl Acetate
Concen: 240.761 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2298296

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.6	14.4

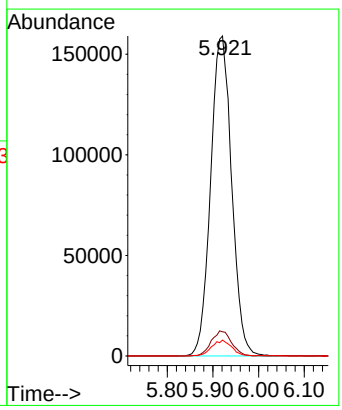


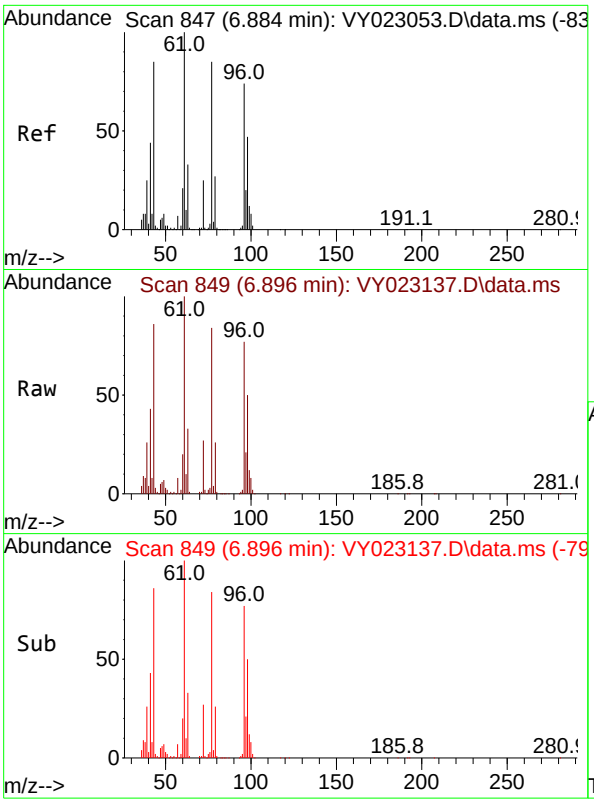


#24
1,1-Dichloroethane
Concen: 48.199 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



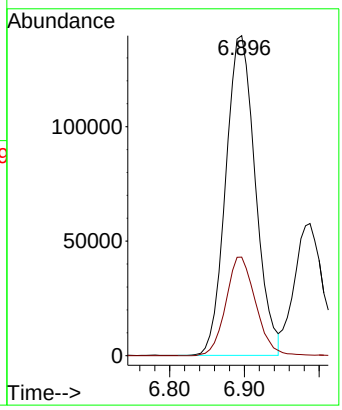


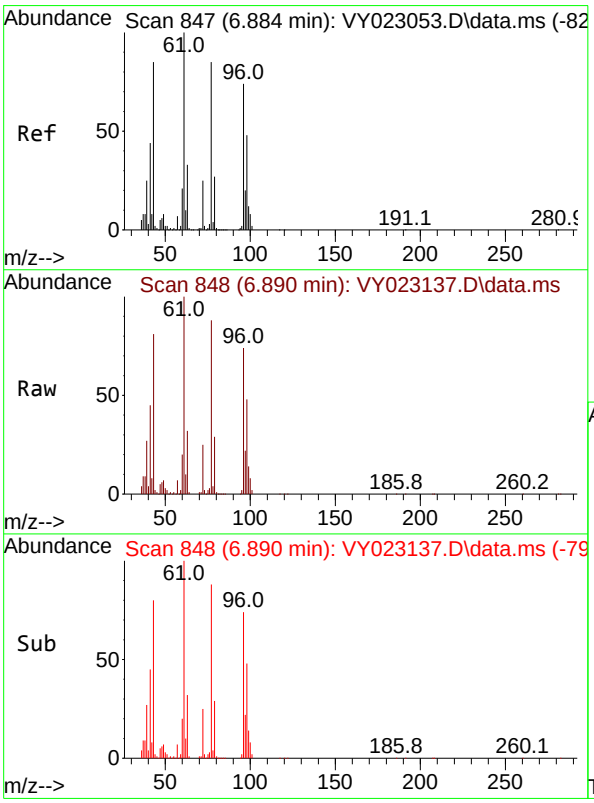
#25
2-Butanone
Concen: 244.351 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 384462

Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.5	35.3

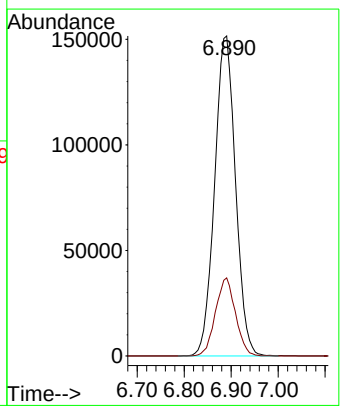


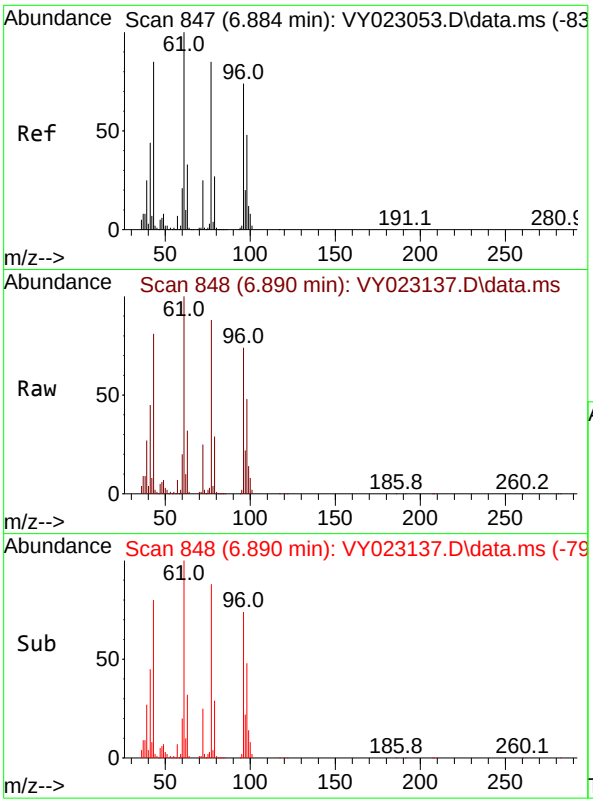


#26
2,2-Dichloropropane
Concen: 51.414 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 77 Resp: 468257

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.8



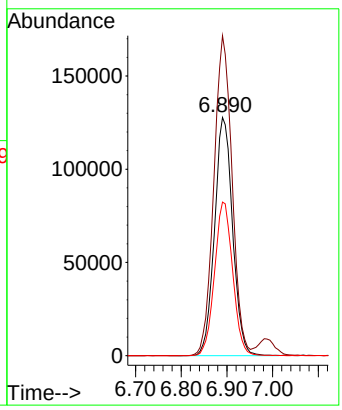


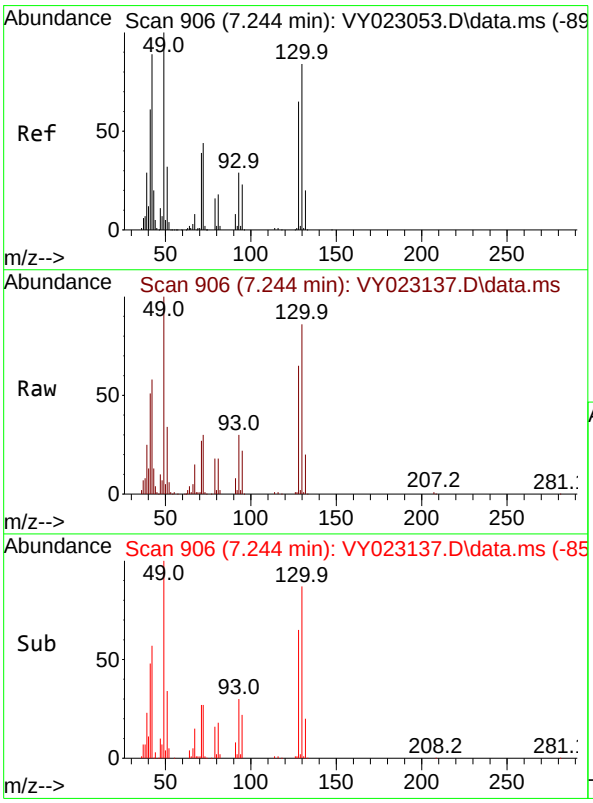
#27
cis-1,2-Dichloroethene
Concen: 50.042 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

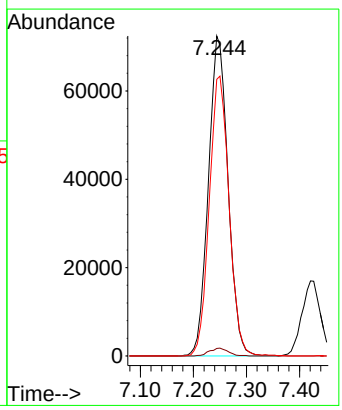


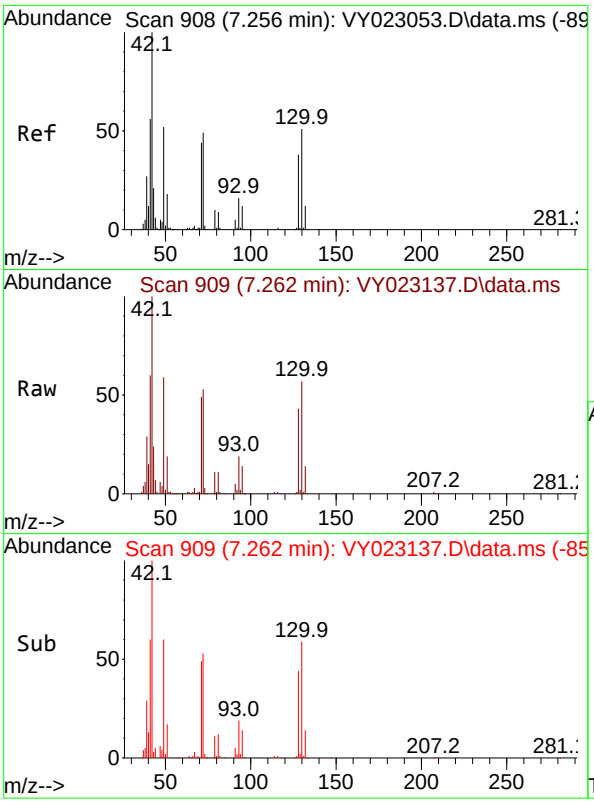


#28
Bromochloromethane
Concen: 44.509 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



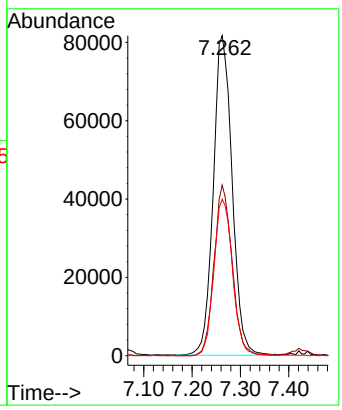


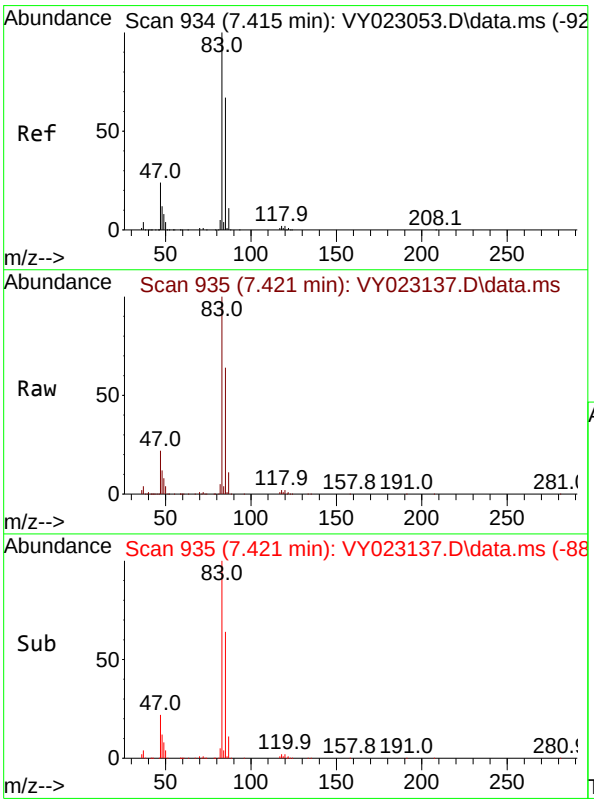
#29
Tetrahydrofuran
Concen: 226.737 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

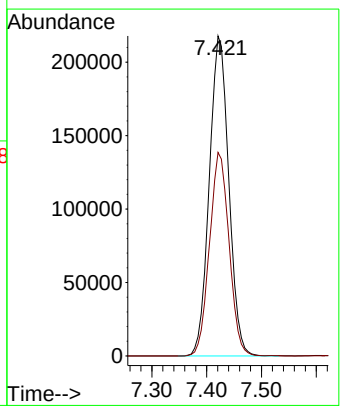


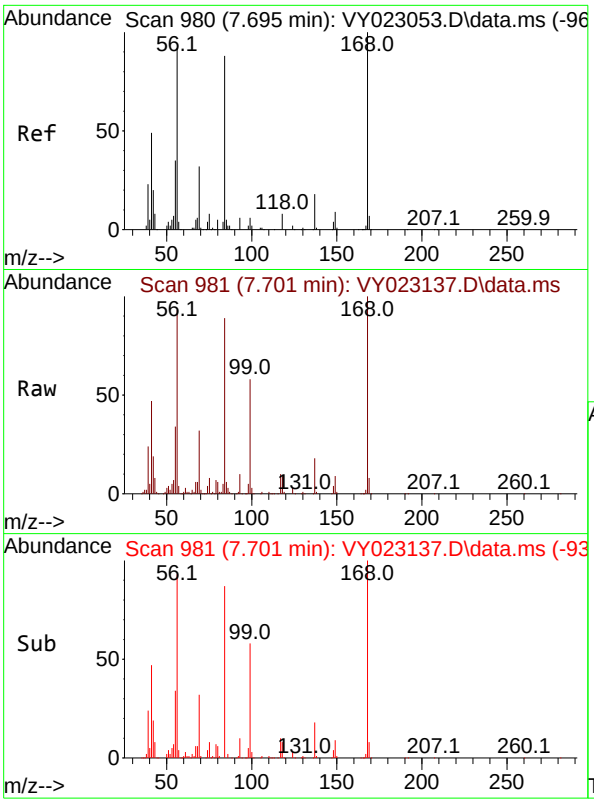


#30
Chloroform
Concen: 49.287 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 536519

Ion	Ratio	Lower	Upper
83	100		
85	63.6	53.8	80.8



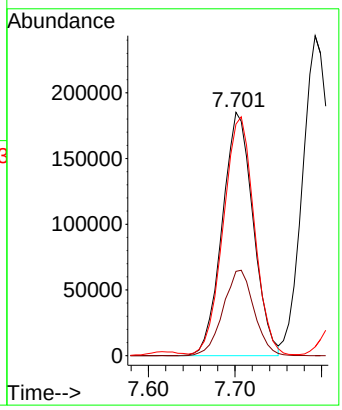


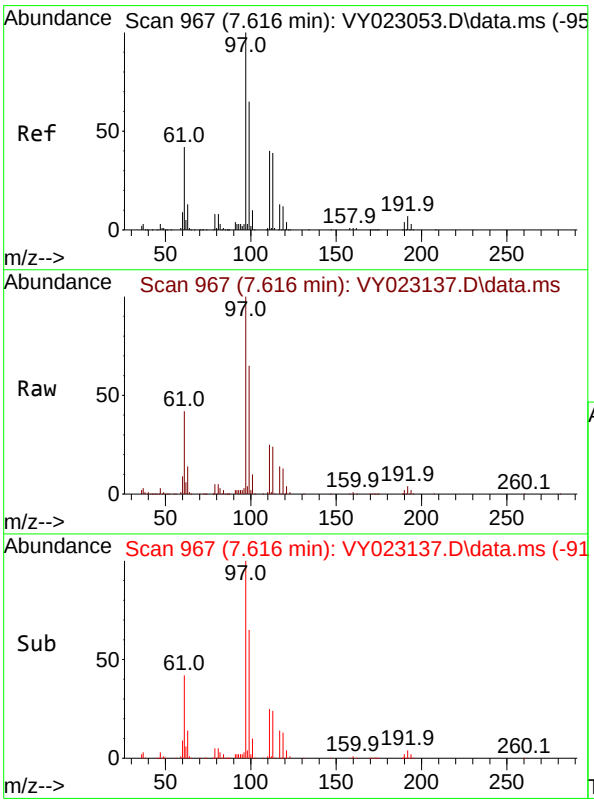
#31
Cyclohexane
Concen: 46.269 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

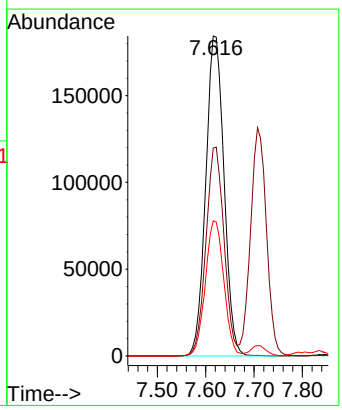


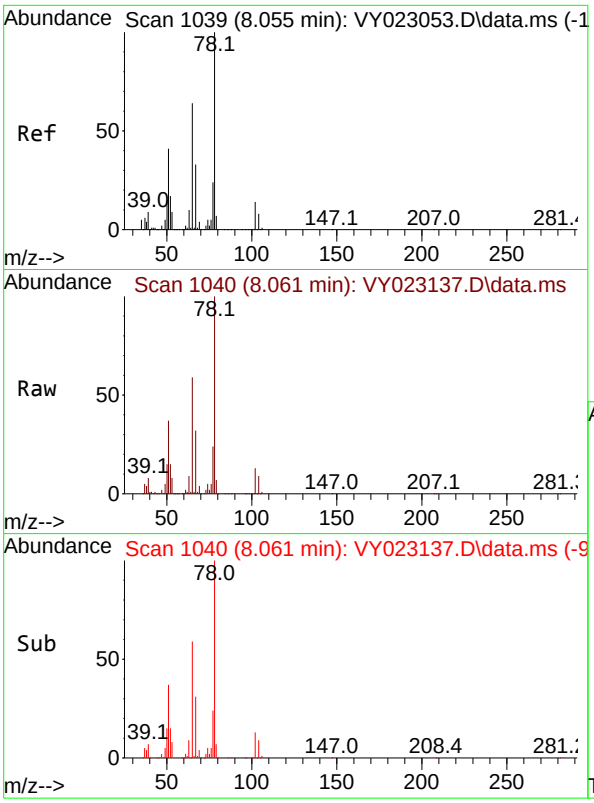


#32
1,1,1-Trichloroethane
Concen: 50.106 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



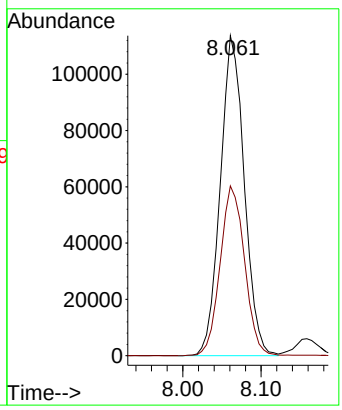


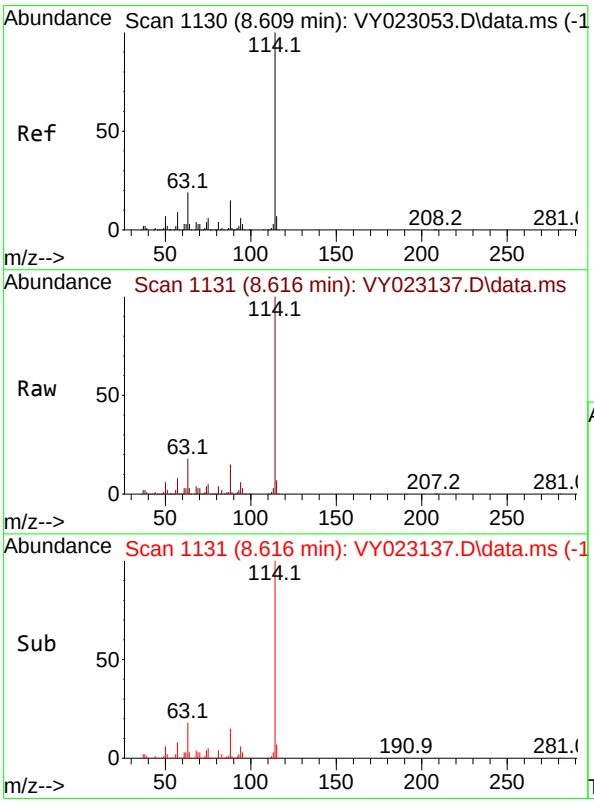
#33
1,2-Dichloroethane-d4
Concen: 45.256 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 241668

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	106.8

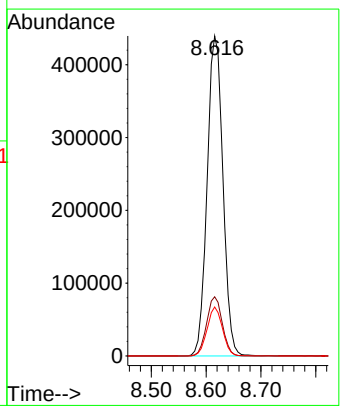


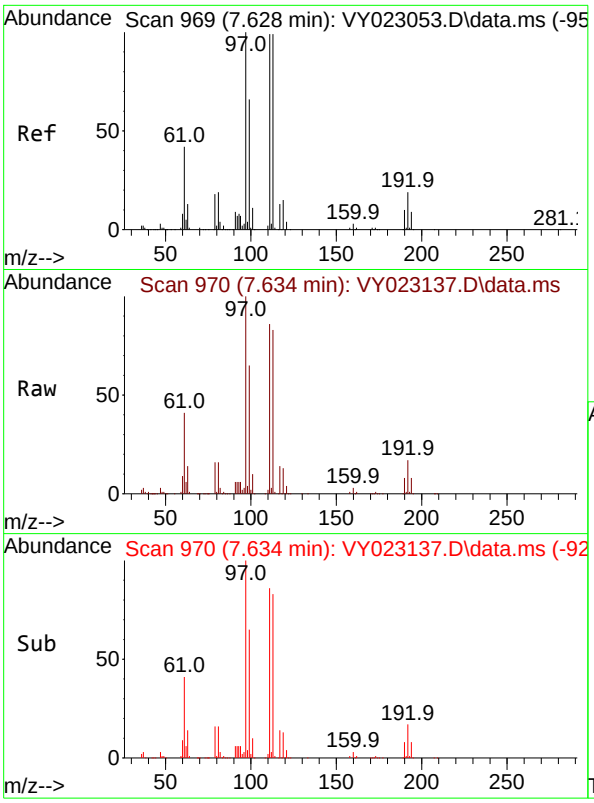


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



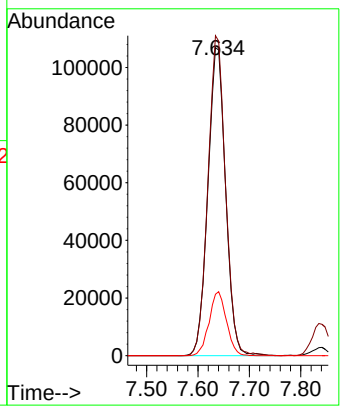


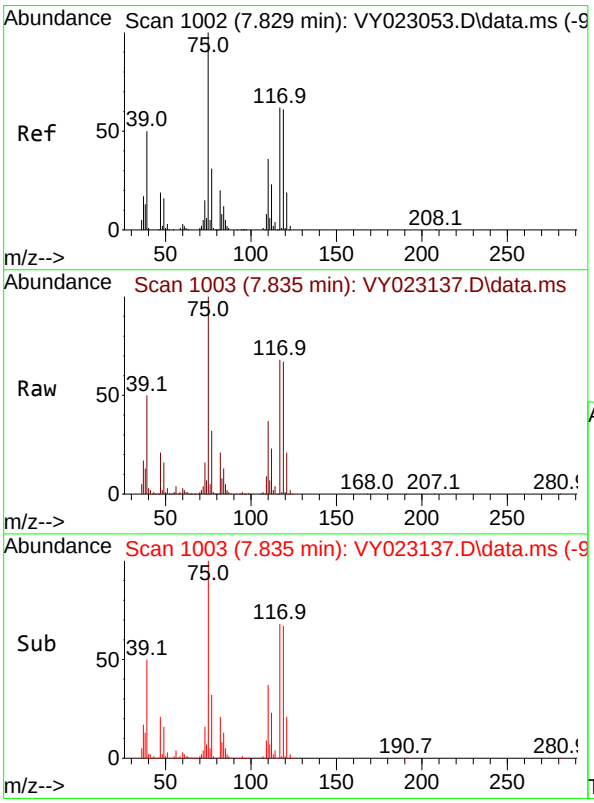
#35
Dibromofluoromethane
Concen: 48.854 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

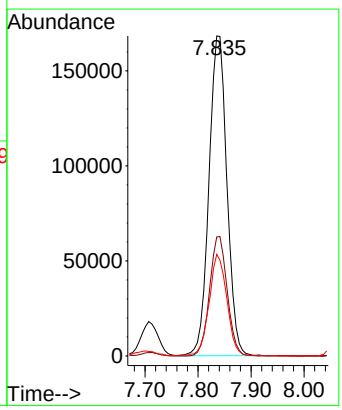


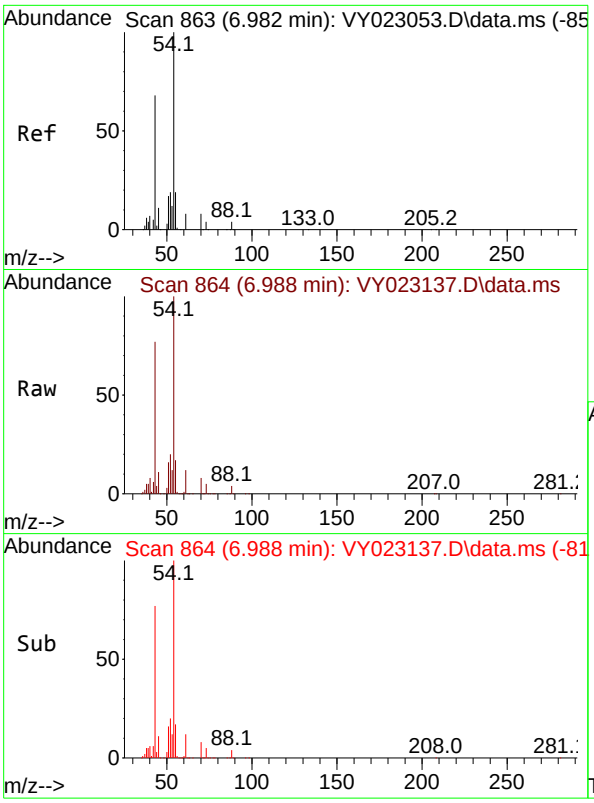


#36
1,1-Dichloropropene
Concen: 50.818 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



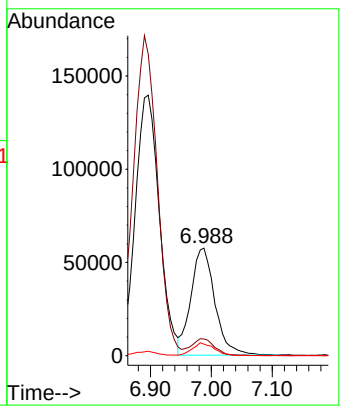


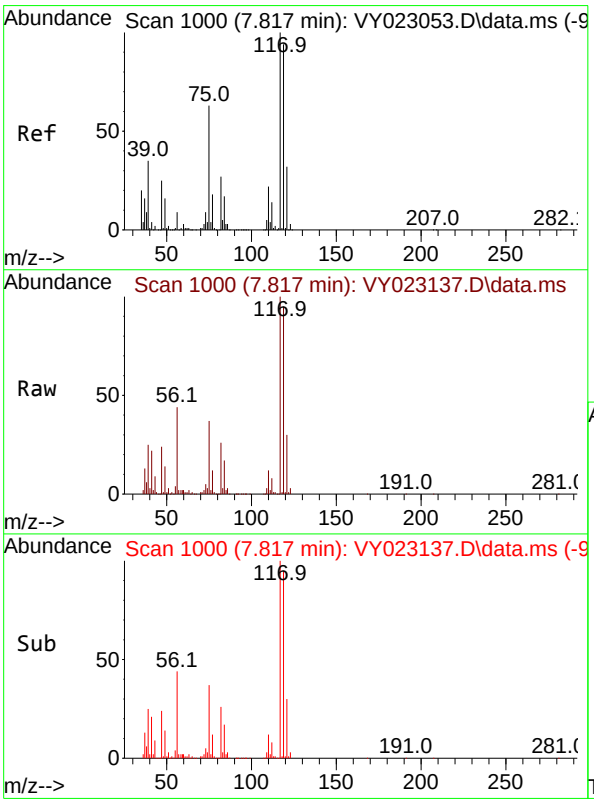
#37
Ethyl Acetate
Concen: 48.006 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

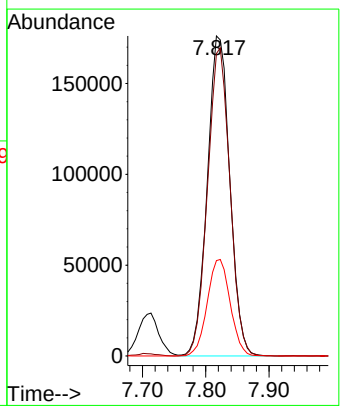


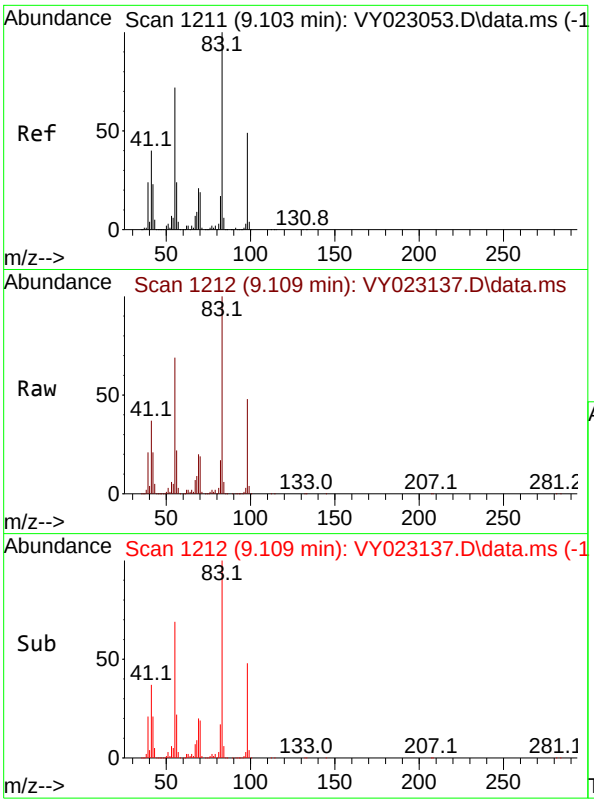


#38
Carbon Tetrachloride
Concen: 51.581 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



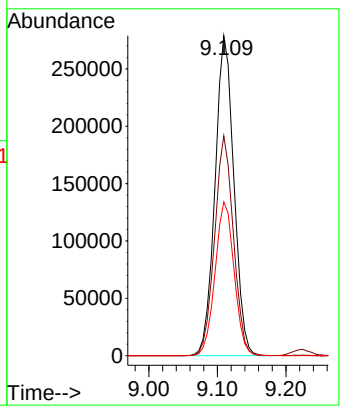


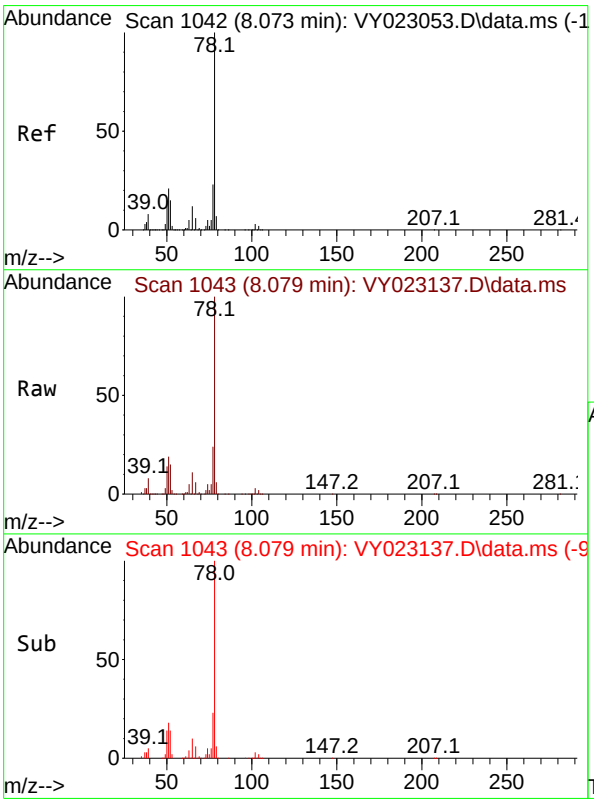
#39
Methylcyclohexane
Concen: 51.832 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

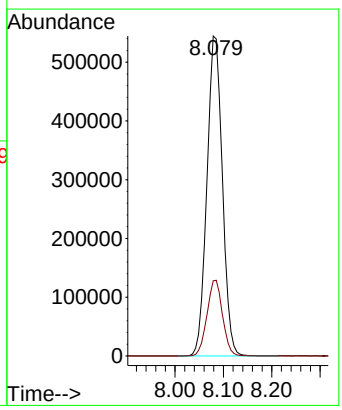


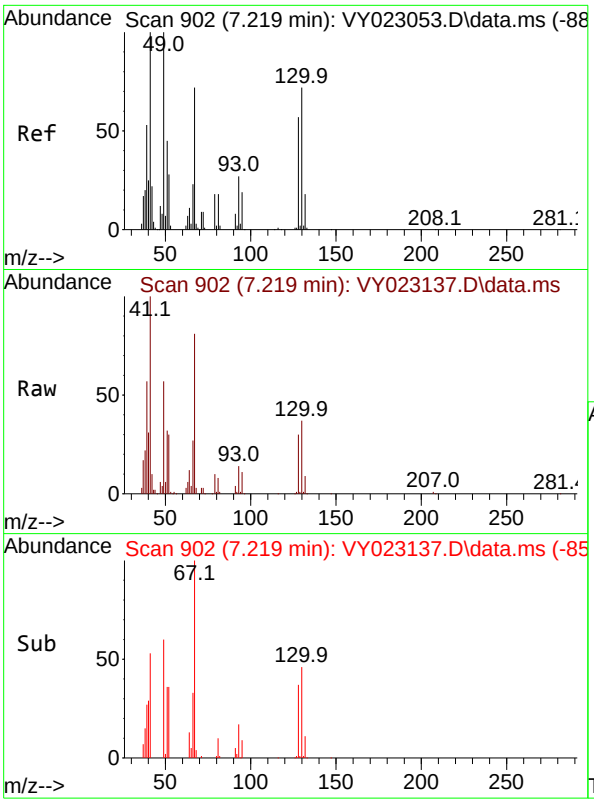


#40
Benzene
Concen: 50.401 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 78 Resp: 1210380

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0



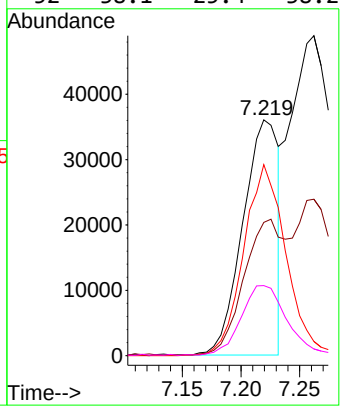


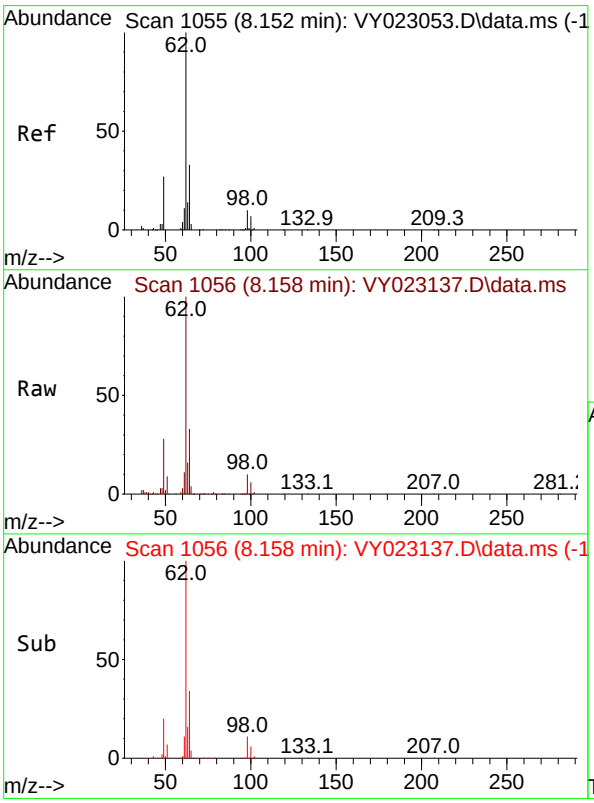
#41
Methacrylonitrile
Concen: 40.191 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

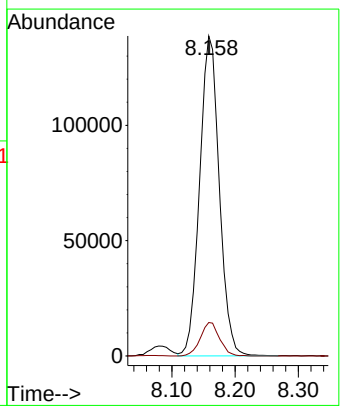


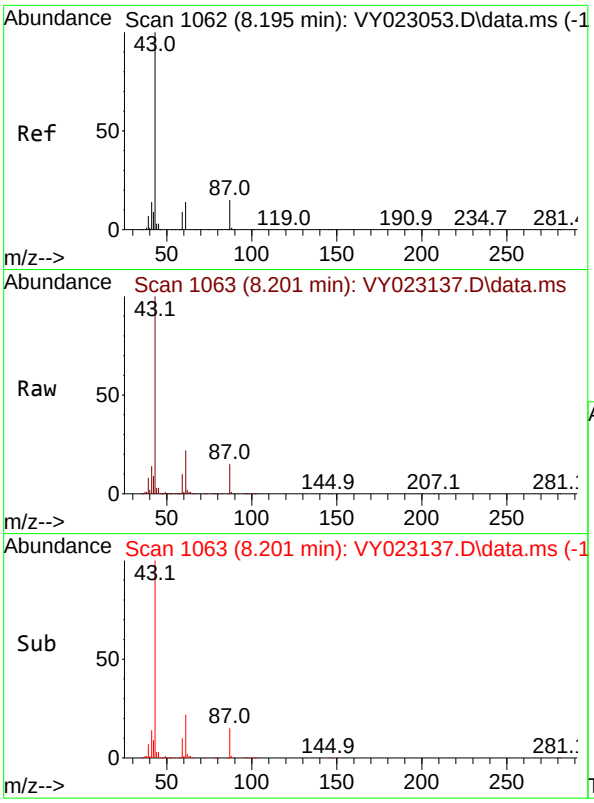


#42
1,2-Dichloroethane
Concen: 48.044 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 300070

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	20.6



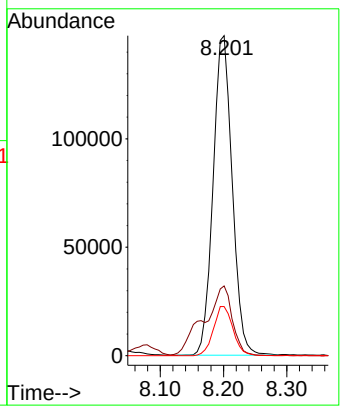


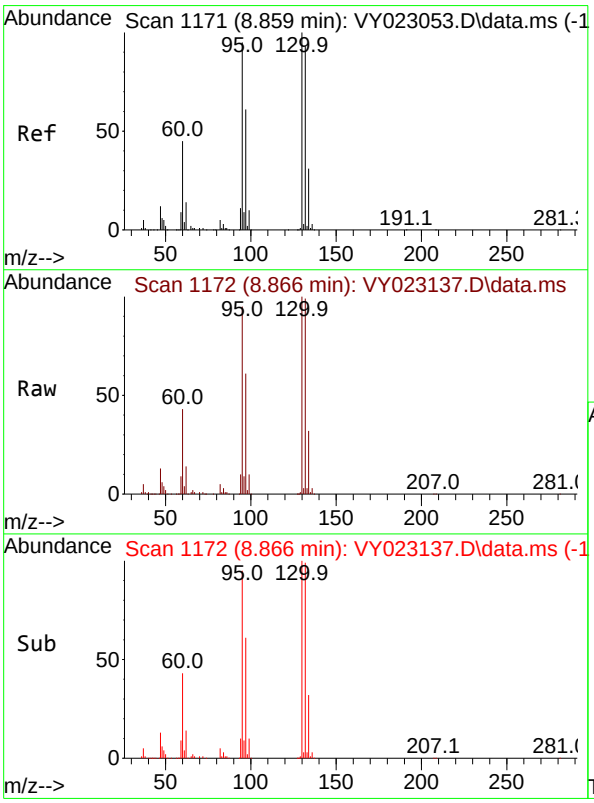
#43
Isopropyl Acetate
Concen: 46.703 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

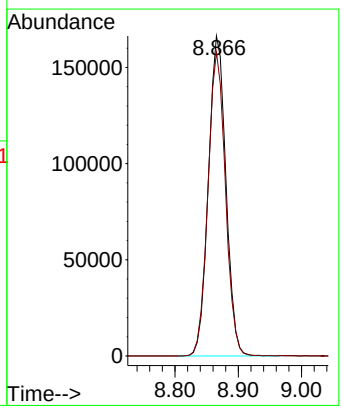


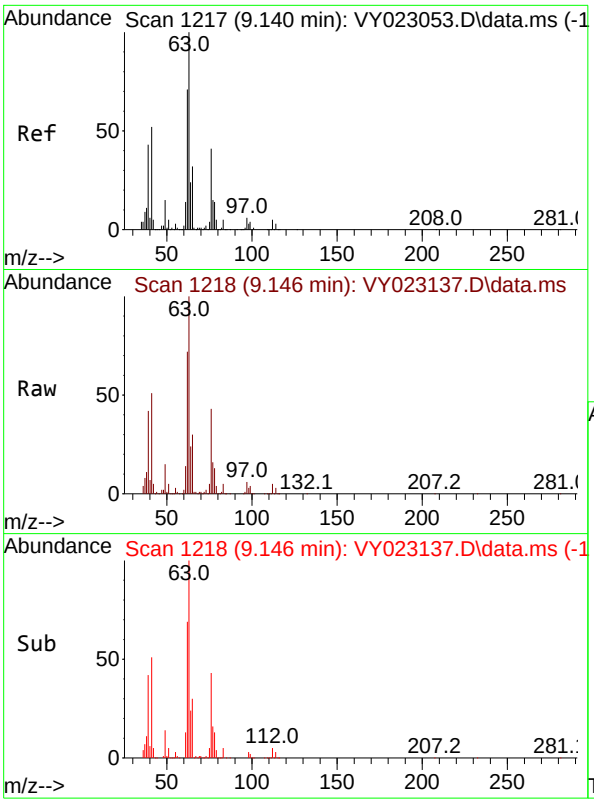


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:130 Resp: 319381

Ion	Ratio	Lower	Upper
130	100		
95	95.0	0.0	190.2



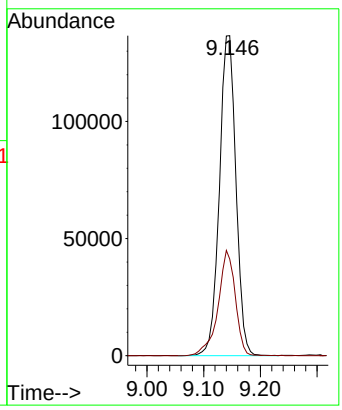


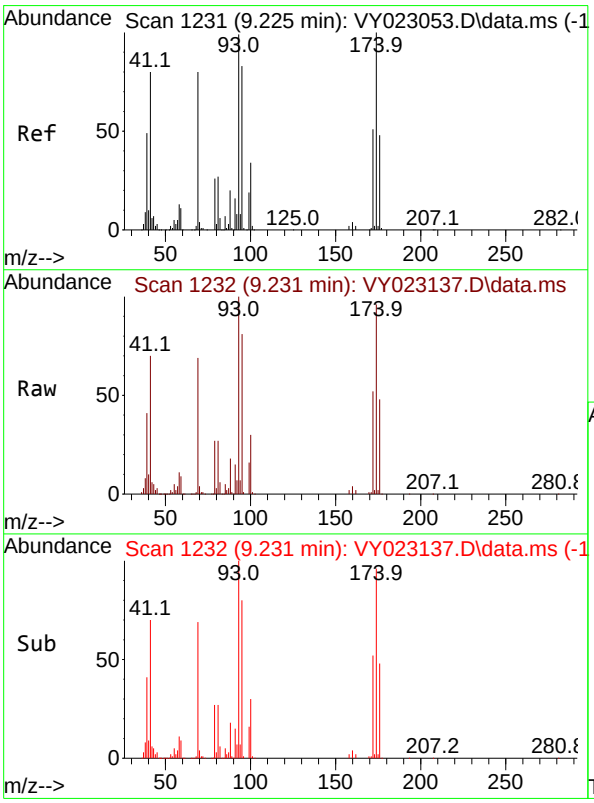
#45
1,2-Dichloropropane
Concen: 50.044 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 276520

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.3	37.9

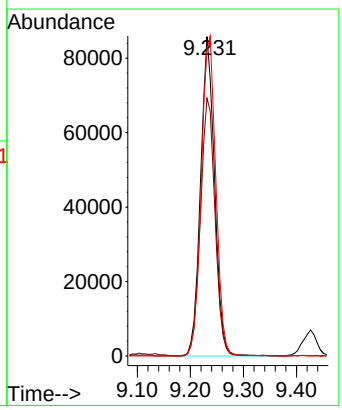


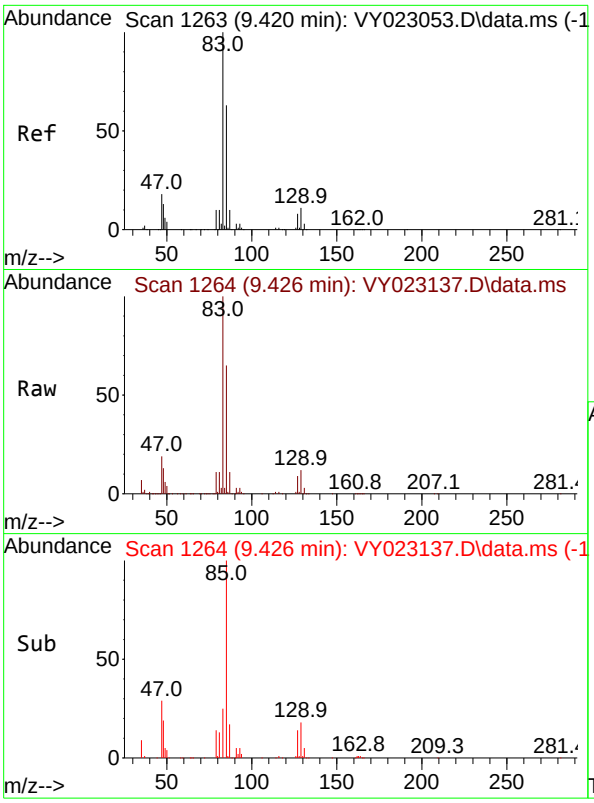


#46
Dibromomethane
Concen: 49.637 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



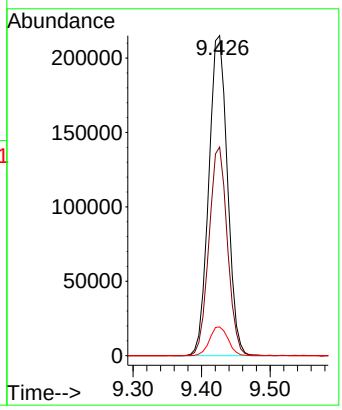


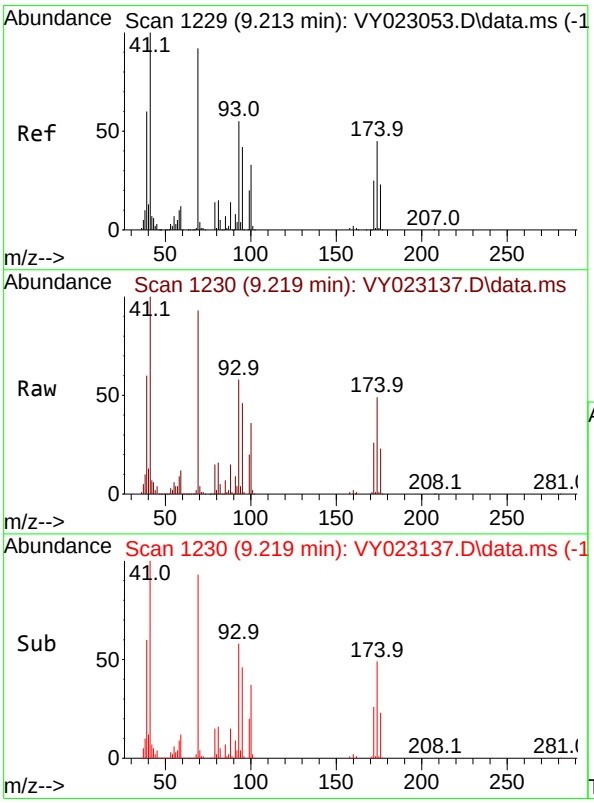
#47
Bromodichloromethane
Concen: 49.781 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

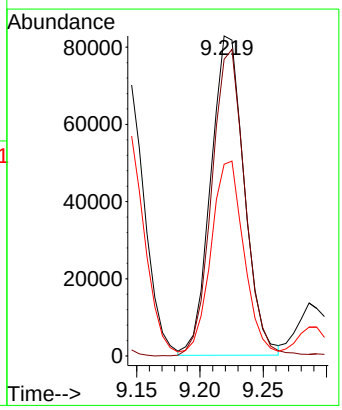


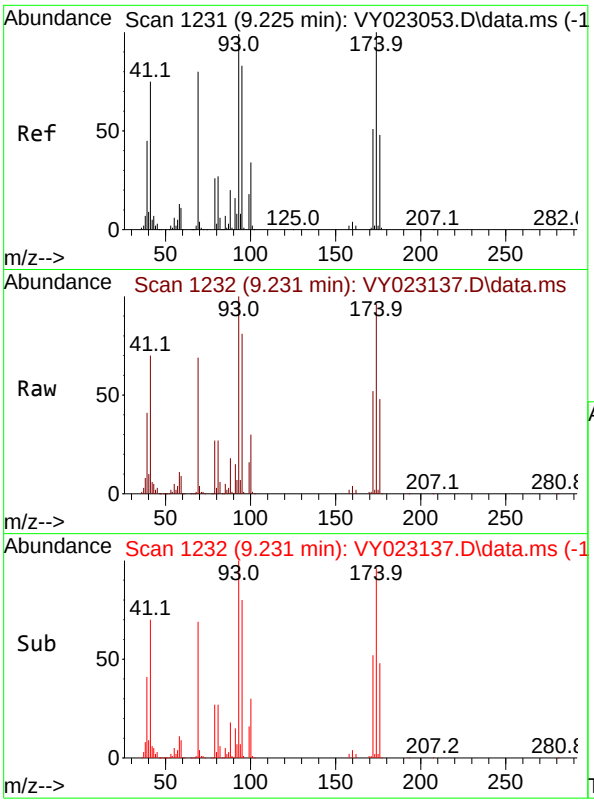


#48
Methyl methacrylate
Concen: 48.023 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



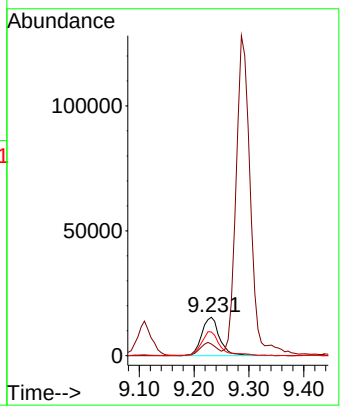


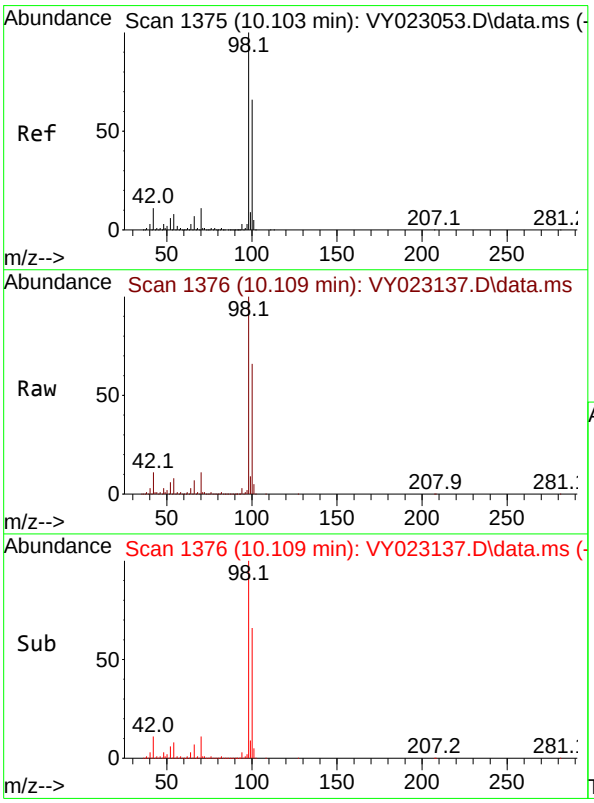
#49
1,4-Dioxane
Concen: 934.713 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

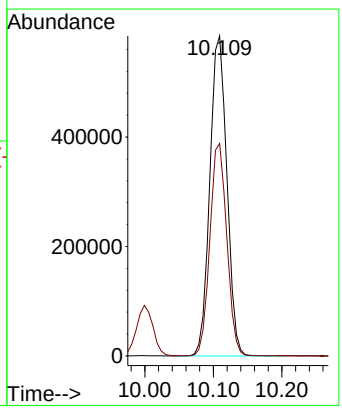


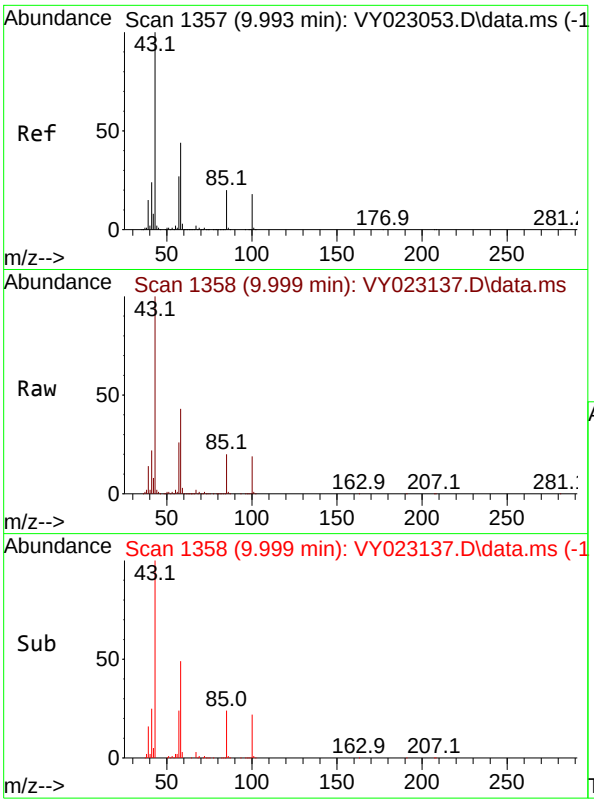


#50
Toluene-d8
Concen: 49.217 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 98 Resp: 1008048

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.3	78.5



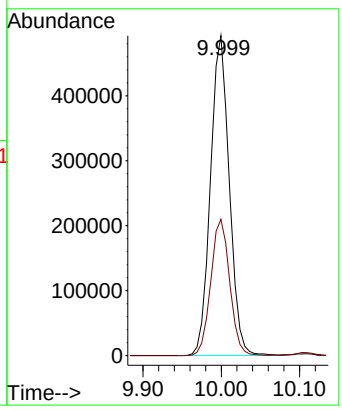


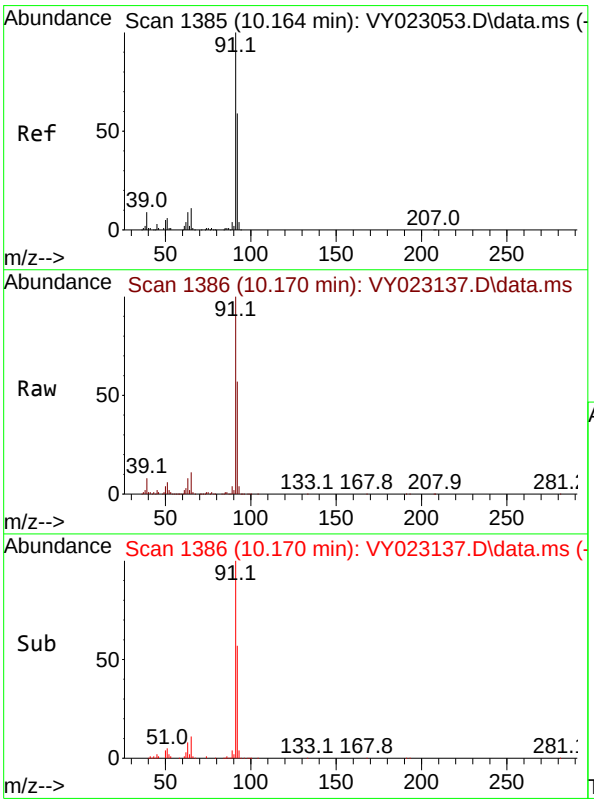
#51
4-Methyl-2-Pentanone
Concen: 240.906 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 822061

Ion	Ratio	Lower	Upper
43	100		
58	43.0	33.5	50.3

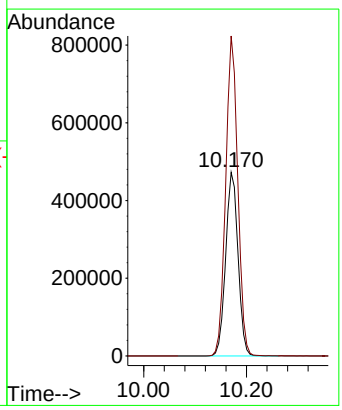


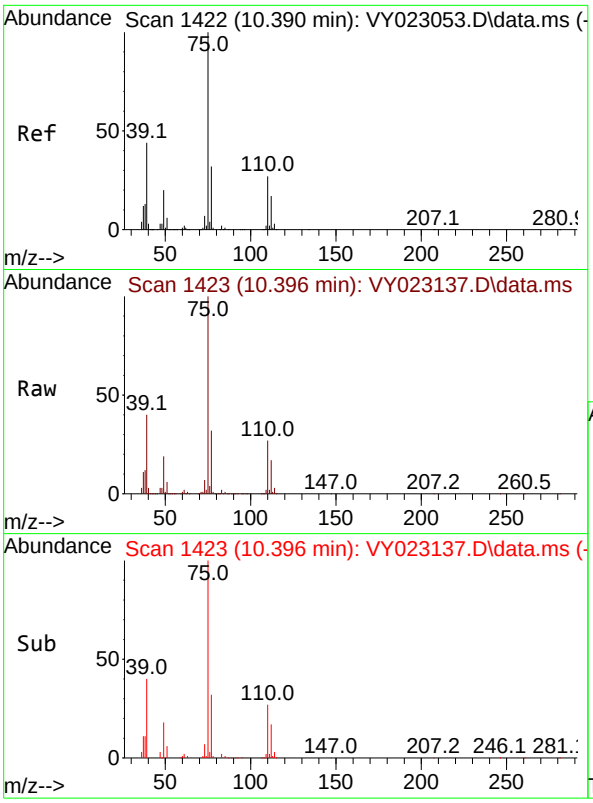


#52
Toluene
Concen: 51.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 92 Resp: 788070

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.4	204.6



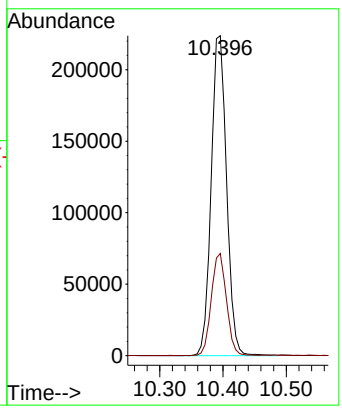


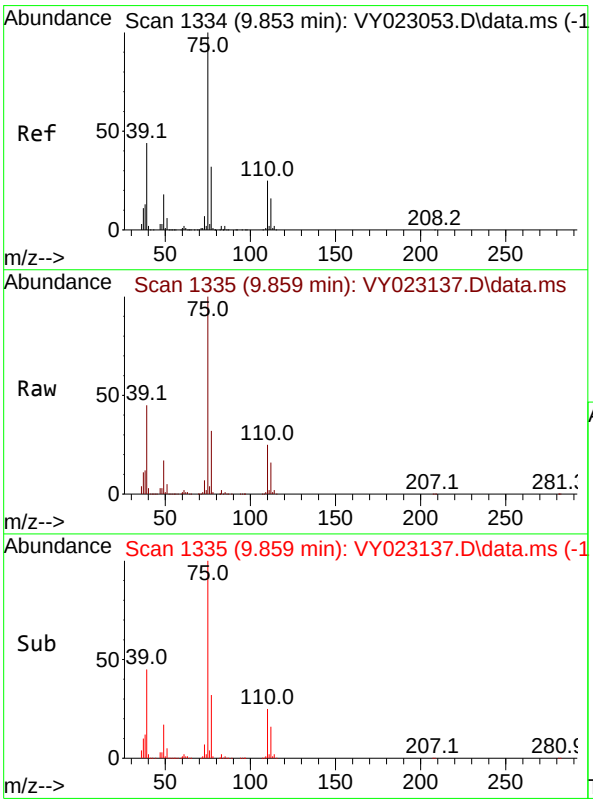
#53
t-1,3-Dichloropropene
Concen: 51.112 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 377708

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5

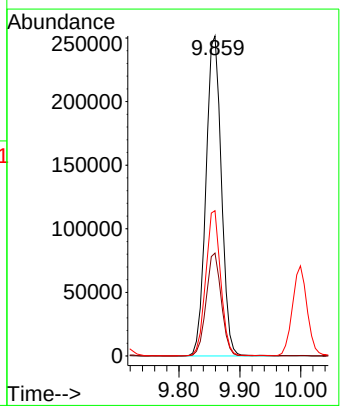


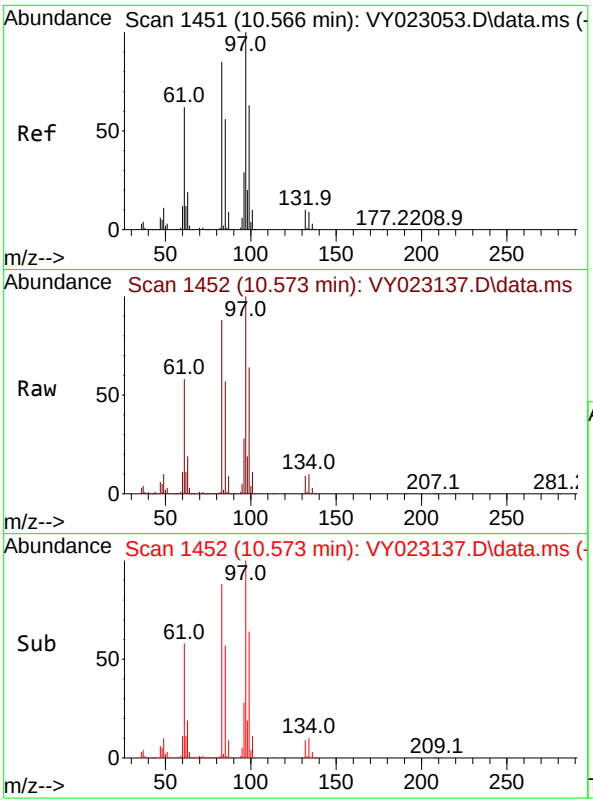


#54
cis-1,3-Dichloropropene
Concen: 50.516 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



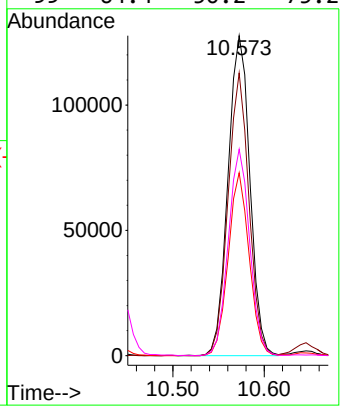


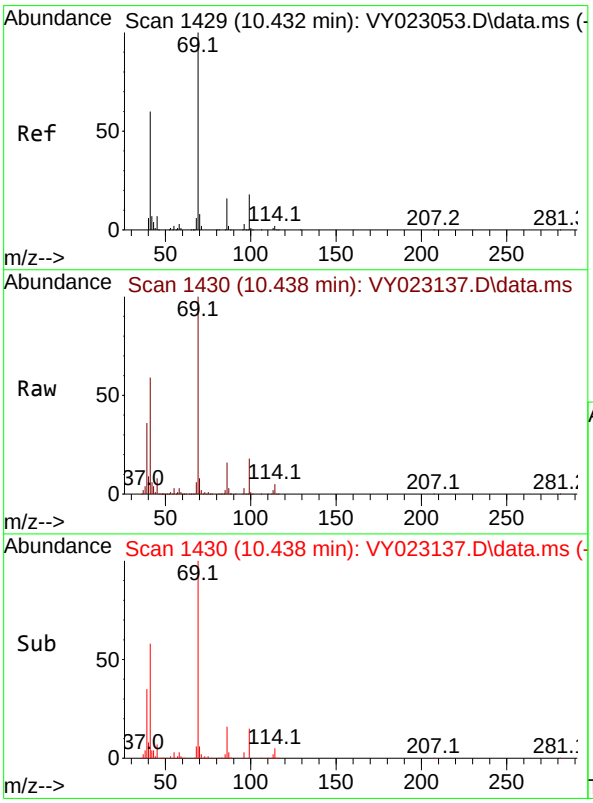
#55
1,1,2-Trichloroethane
Concen: 50.206 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

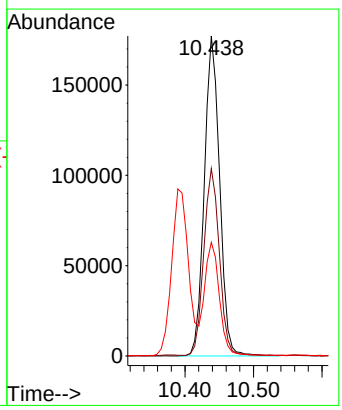


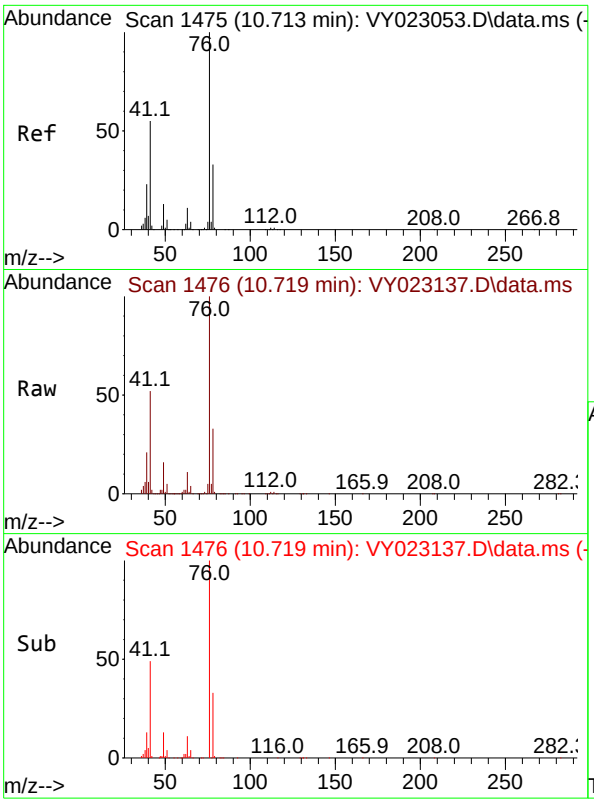


#56
Ethyl methacrylate
Concen: 50.859 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



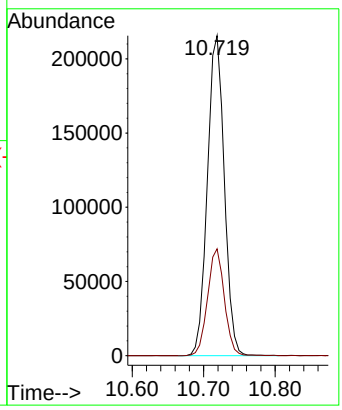


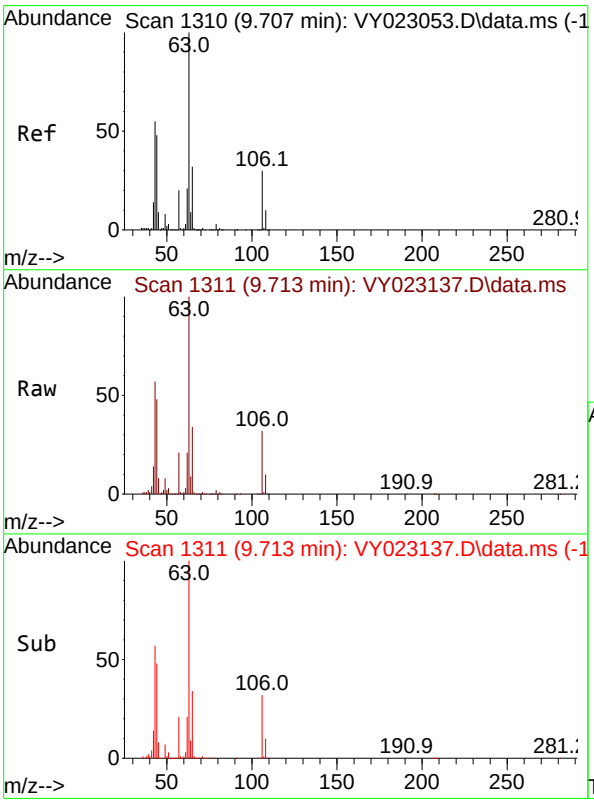
#57
1,3-Dichloropropane
Concen: 49.273 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 354628

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0

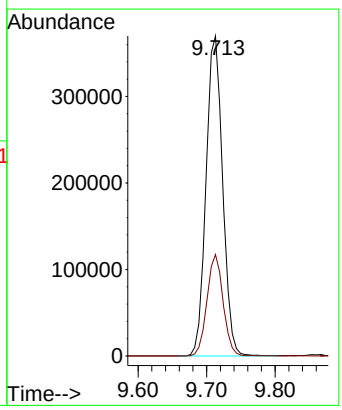


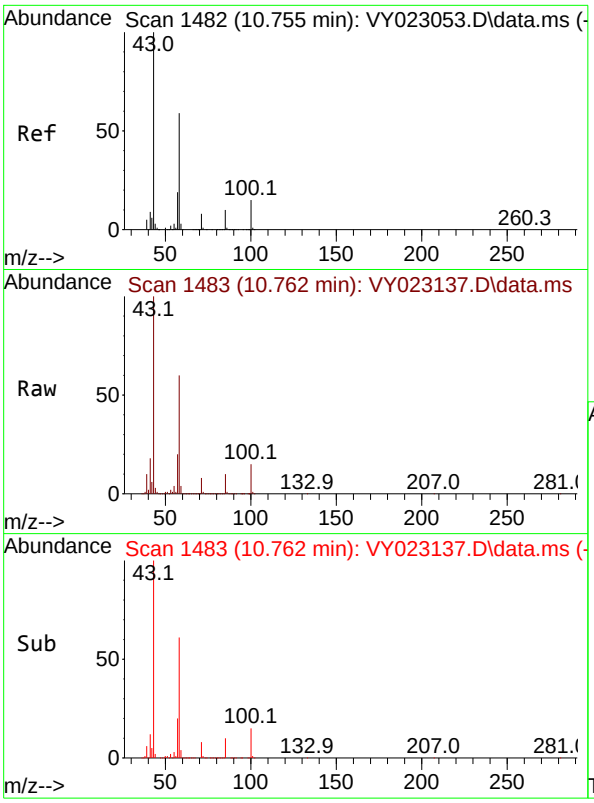


#58
2-Chloroethyl Vinyl ether
Concen: 242.835 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 622022

Ion	Ratio	Lower	Upper
63	100		
106	30.8	23.2	34.8



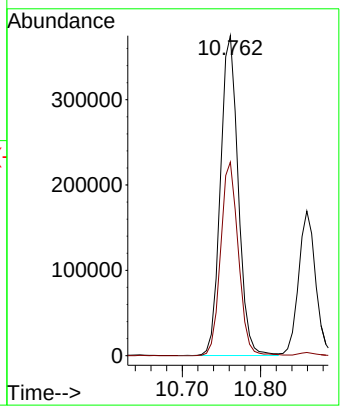


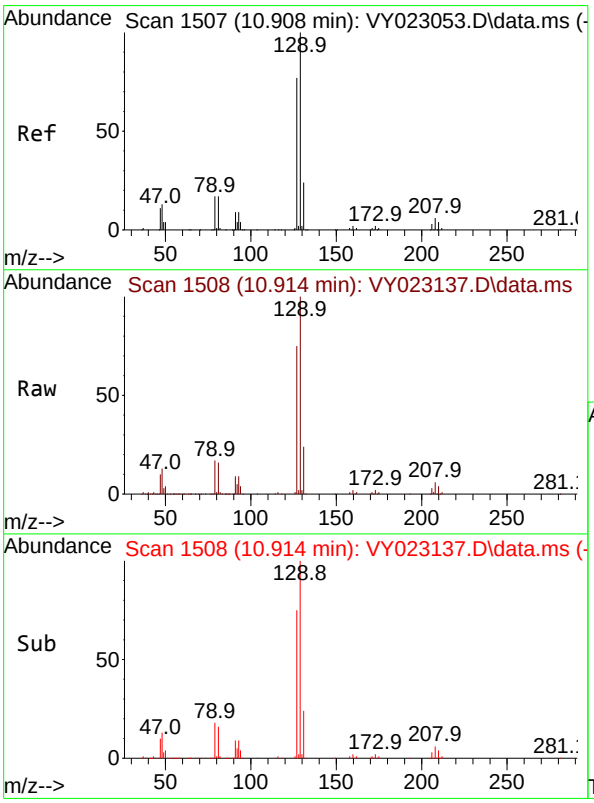
#59
2-Hexanone
Concen: 254.865 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 592202

Ion	Ratio	Lower	Upper
43	100		
58	60.2	29.5	88.5

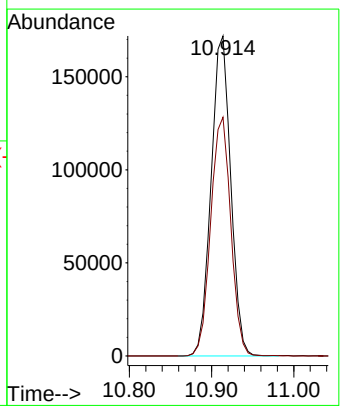


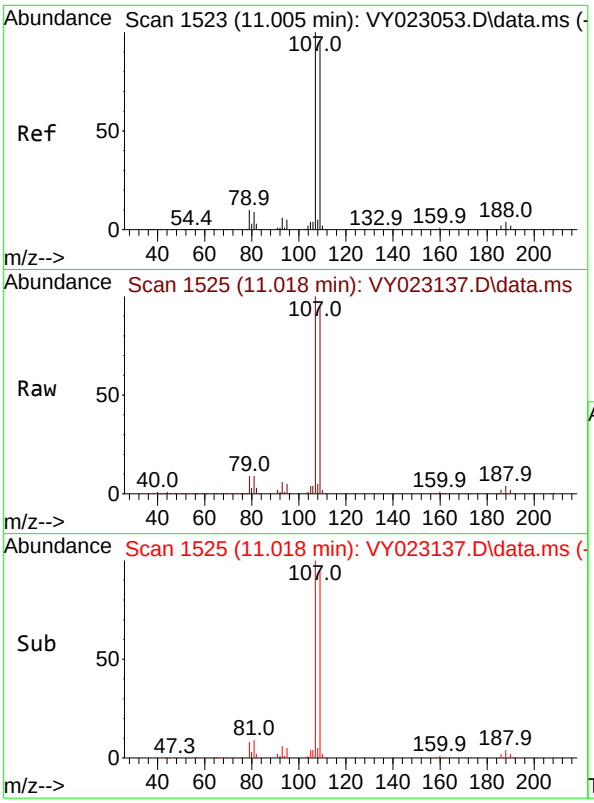


#60
Dibromochloromethane
Concen: 50.963 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:129 Resp: 285374

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.5	115.5



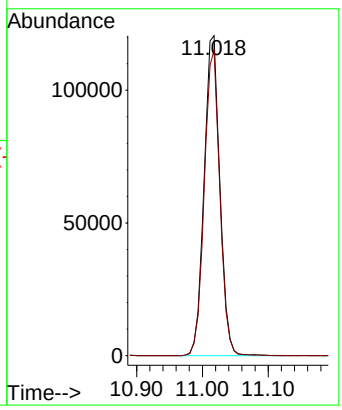


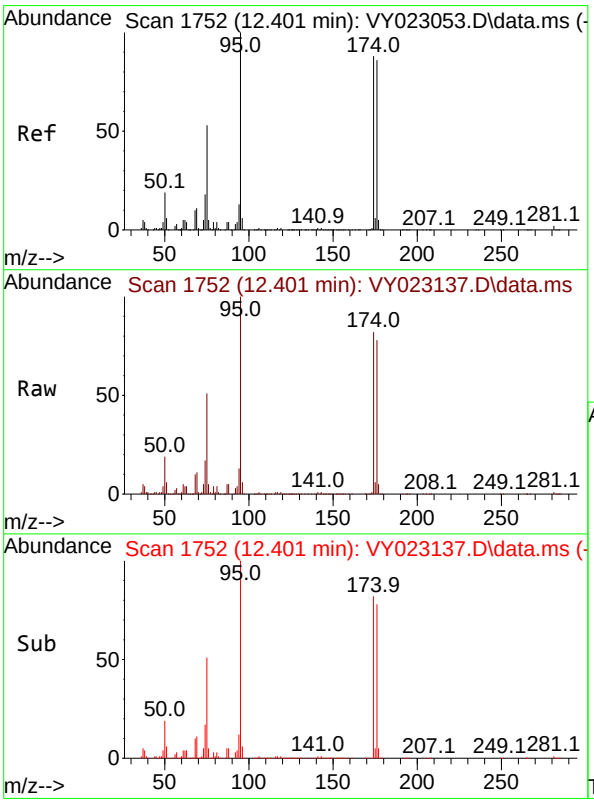
#61
1,2-Dibromoethane
Concen: 50.411 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 201073

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.6	113.4

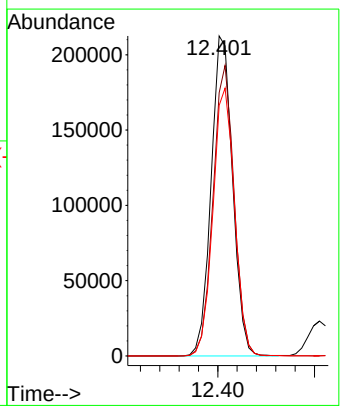


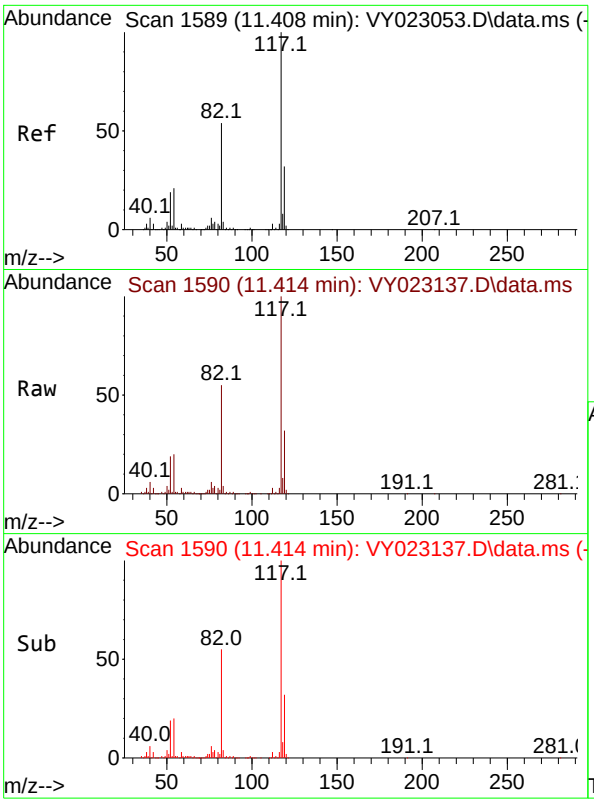


#62
4-Bromofluorobenzene
Concen: 49.618 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



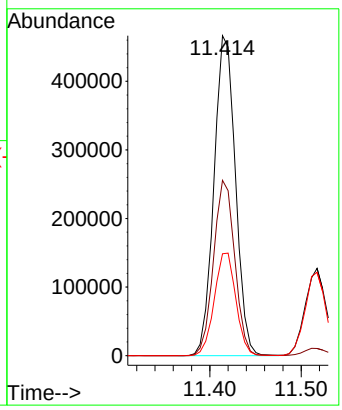


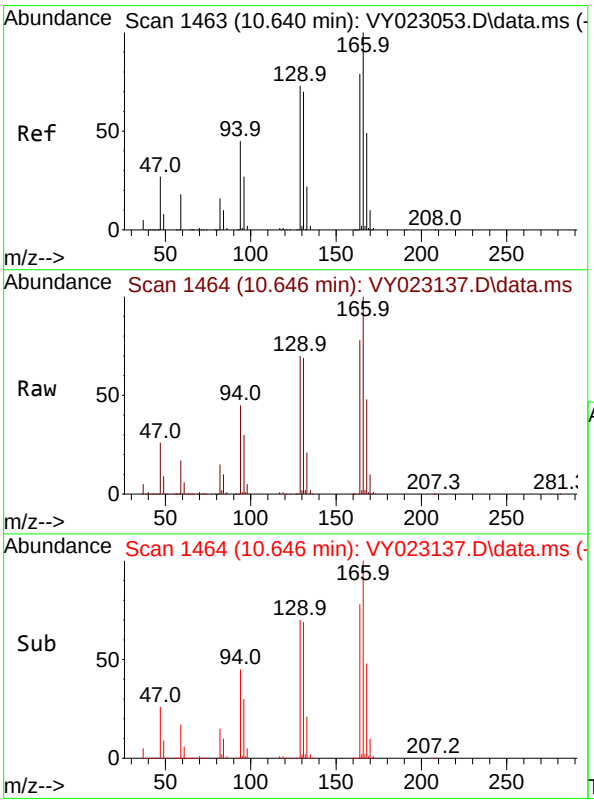
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

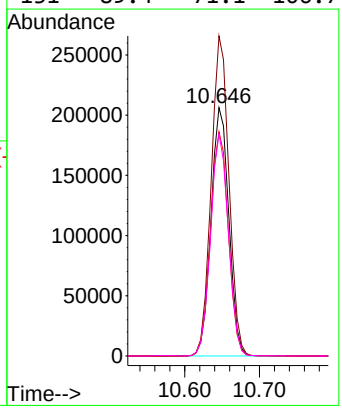


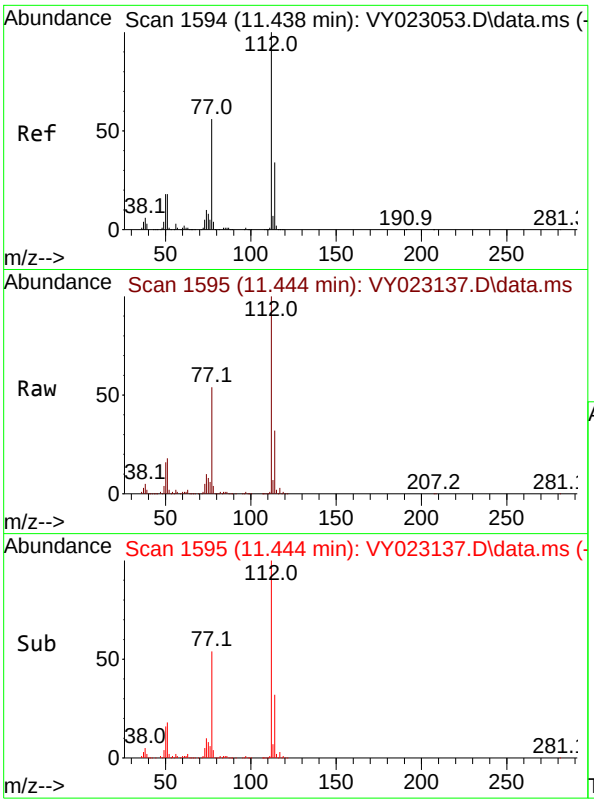


#64
Tetrachloroethene
Concen: 50.340 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



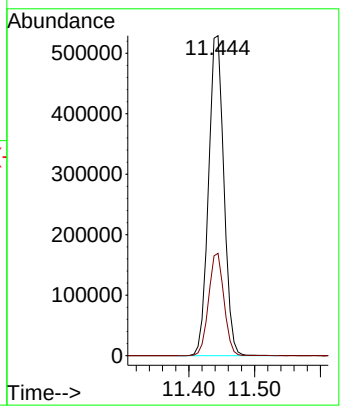


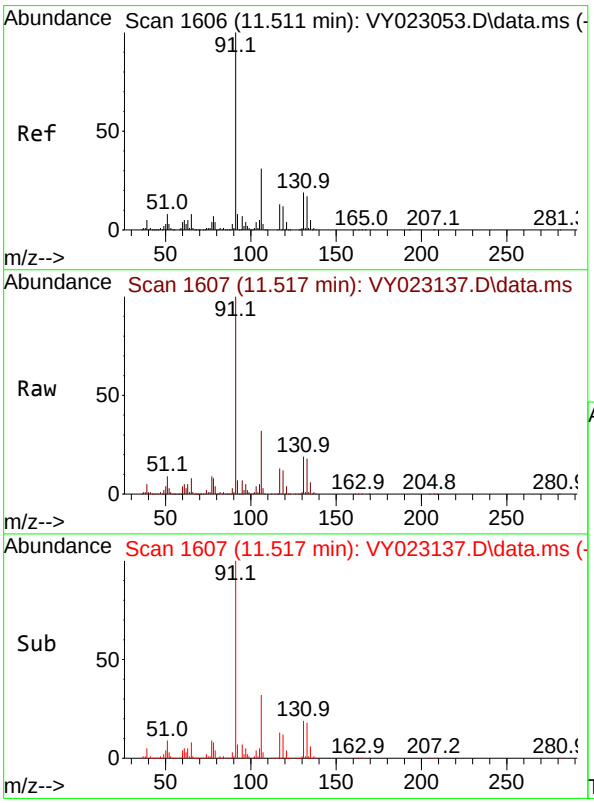
#65
Chlorobenzene
Concen: 52.238 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 858367

Ion	Ratio	Lower	Upper
112	100		
114	32.0	27.0	40.4

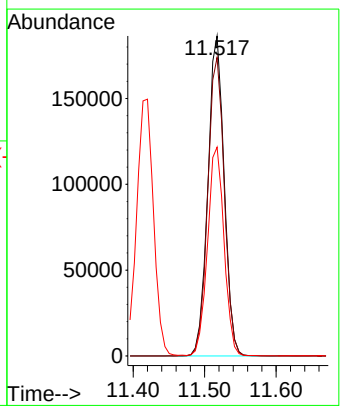


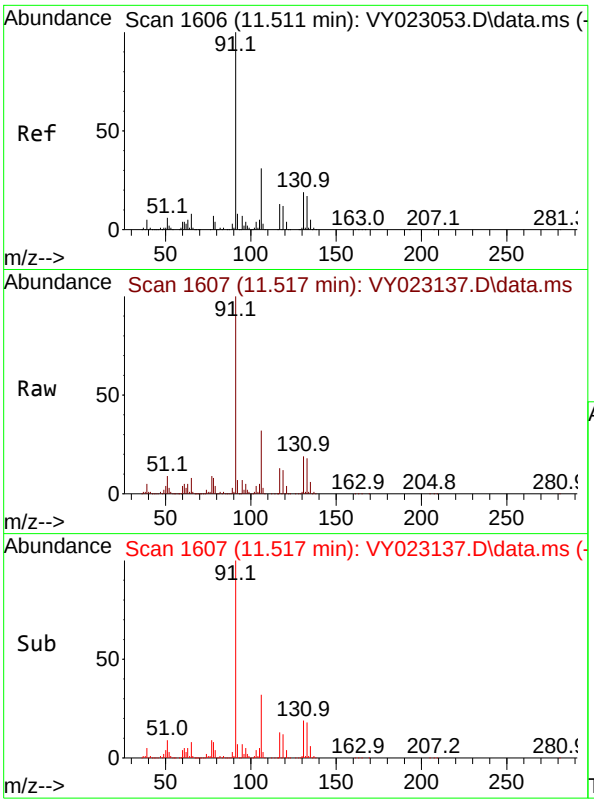


#66
1,1,1,2-Tetrachloroethane
Concen: 52.900 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



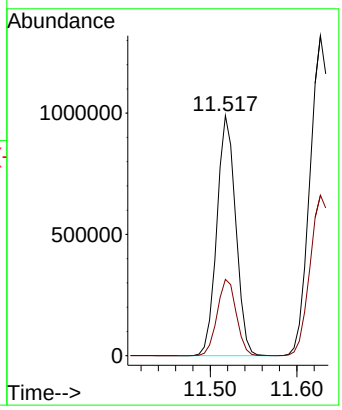


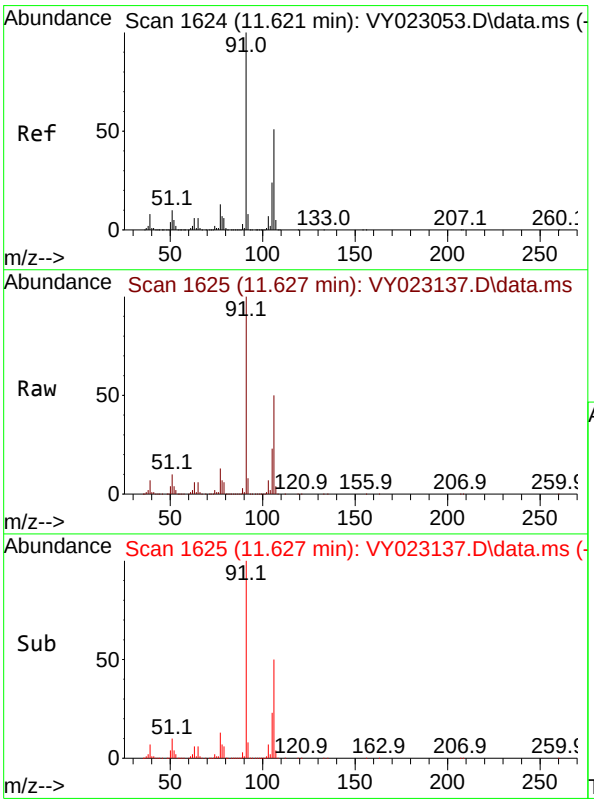
#67
Ethyl Benzene
Concen: 52.850 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1494465

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

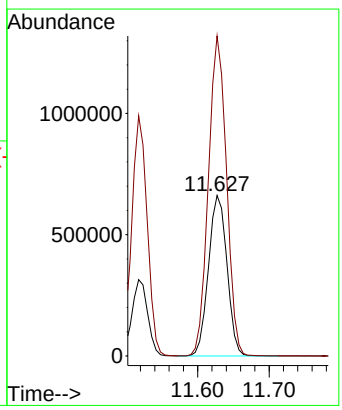


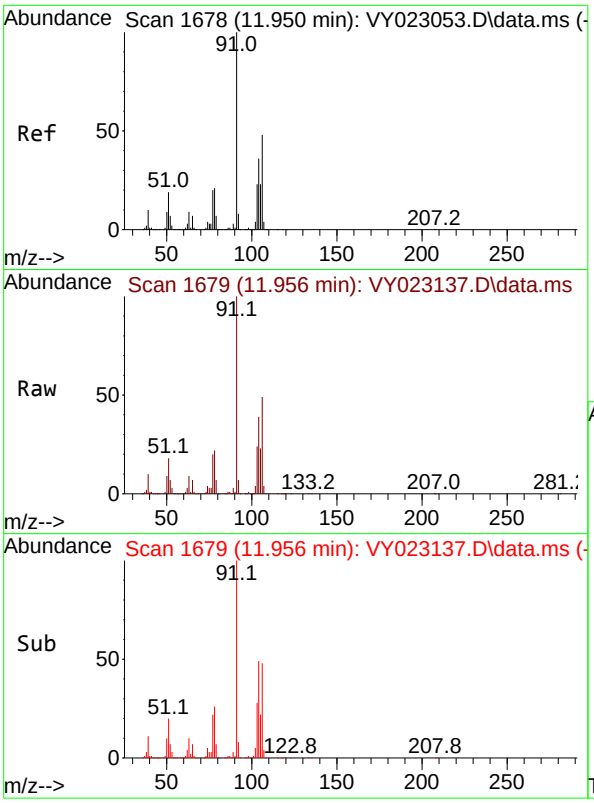


#68
m/p-Xylenes
Concen: 107.397 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 1186104

Ion	Ratio	Lower	Upper
106	100		
91	195.6	158.6	238.0



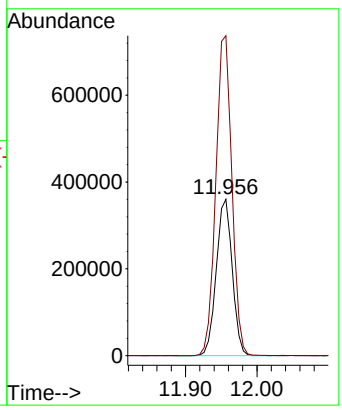


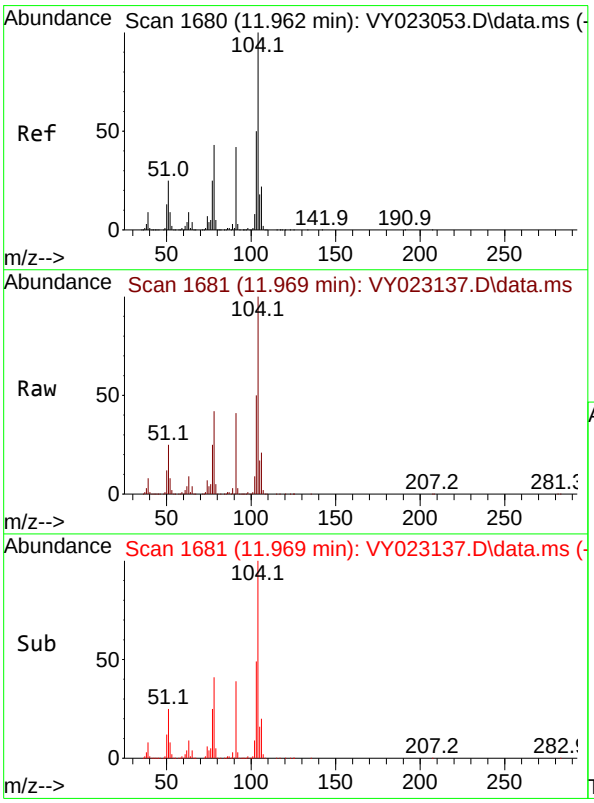
#69
o-Xylene
Concen: 53.940 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 557951

Ion	Ratio	Lower	Upper
106	100		
91	205.8	103.2	309.4

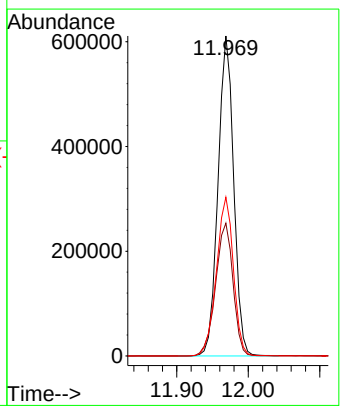


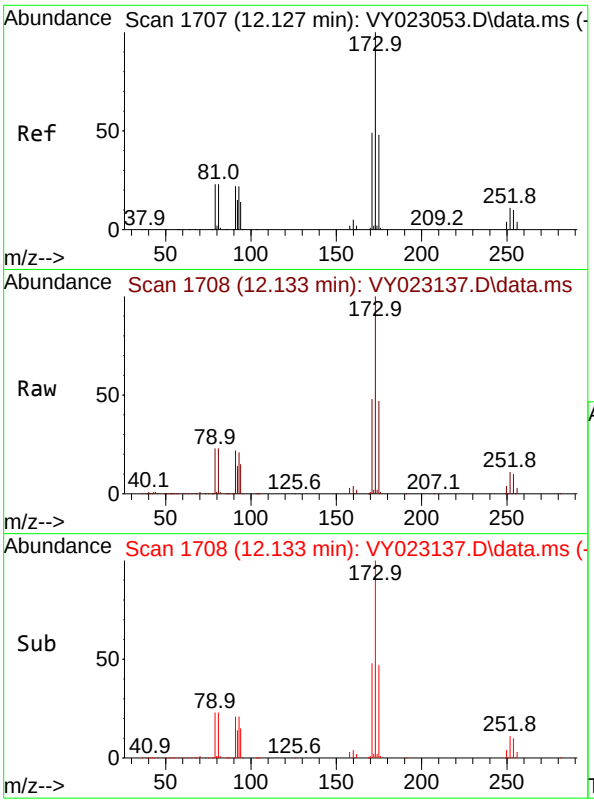


#70
Styrene
Concen: 55.007 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



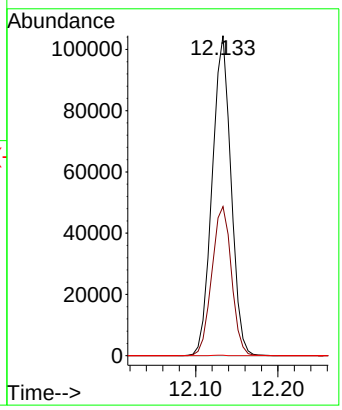


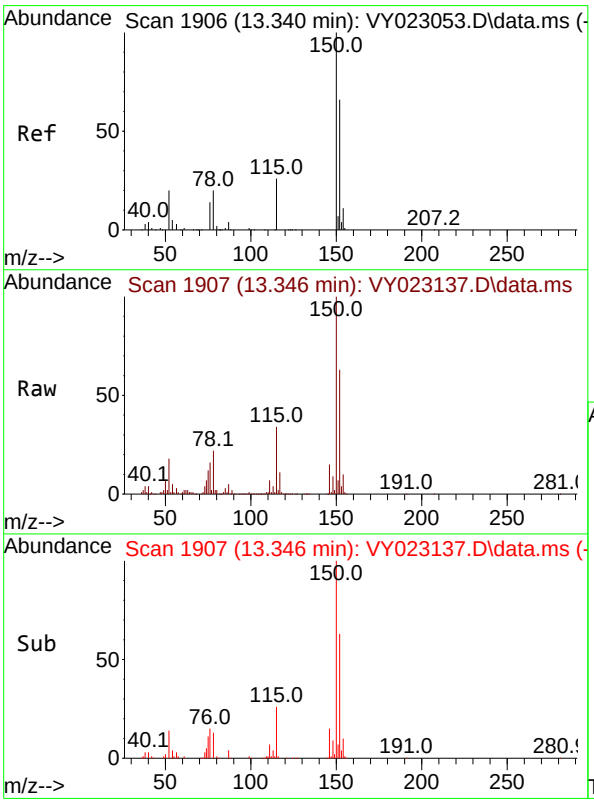
#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

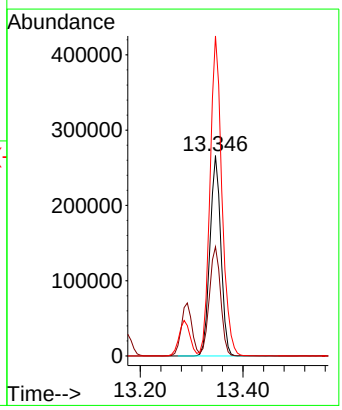


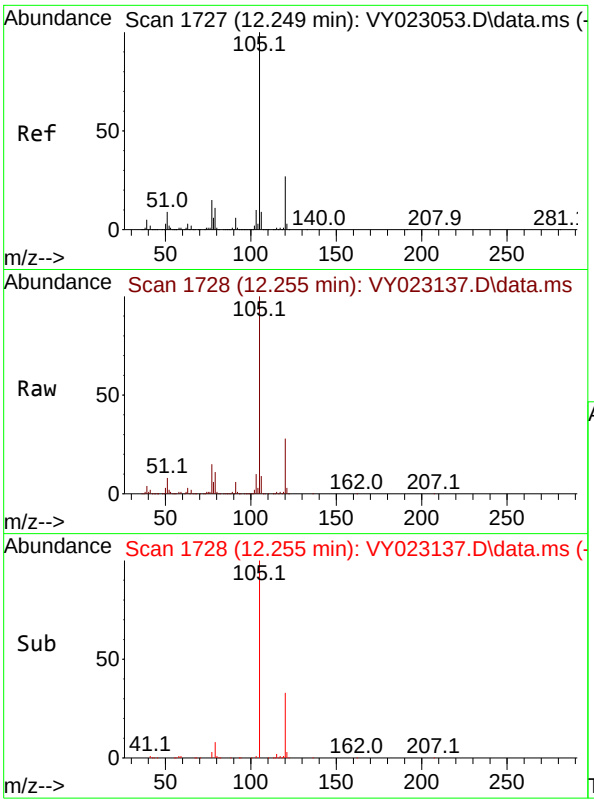


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



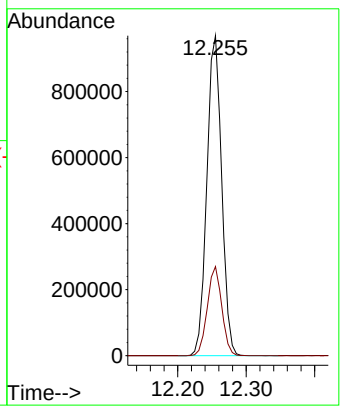


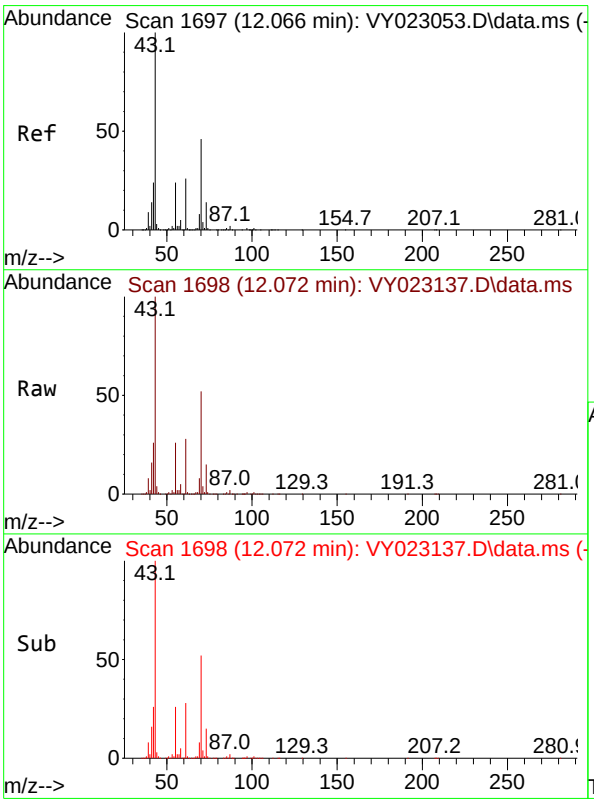
#73
Isopropylbenzene
Concen: 52.528 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1455261

Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.4	40.2

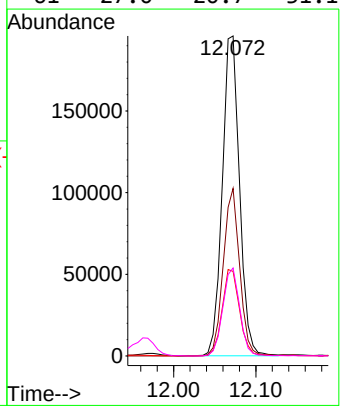


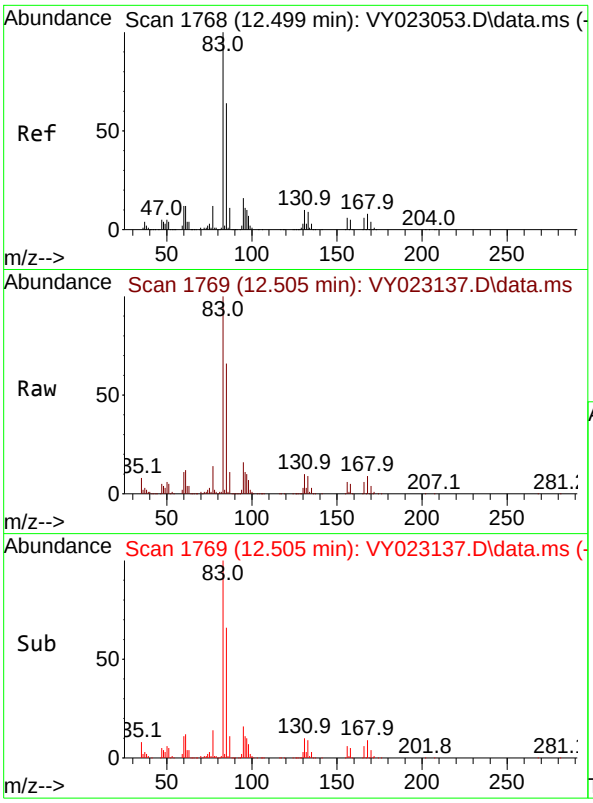


#74
N-amyl acetate
Concen: 48.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



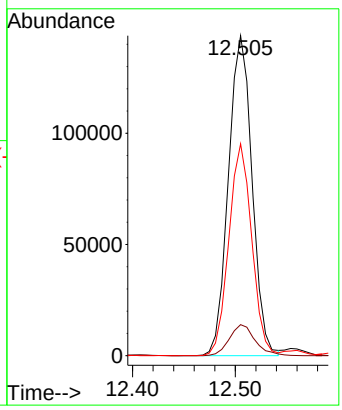


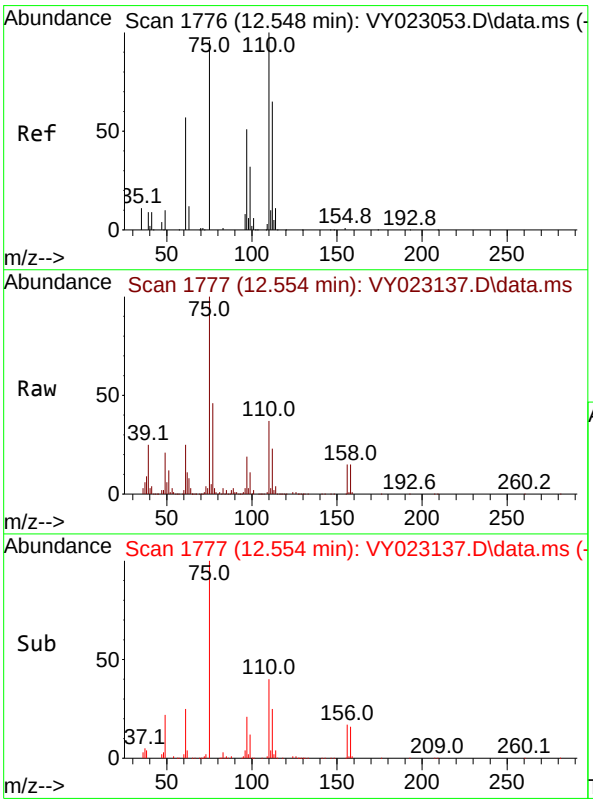
#75
1,1,2,2-Tetrachloroethane
Concen: 48.639 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

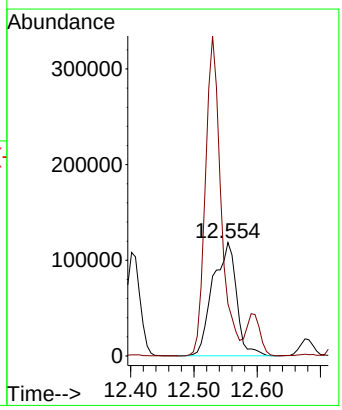


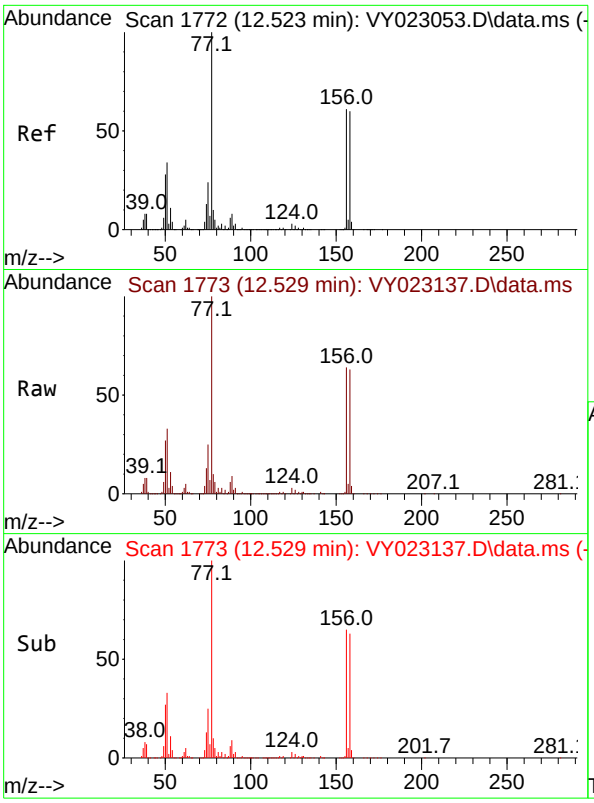


#76
1,2,3-Trichloropropane
Concen: 81.222 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 307699

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



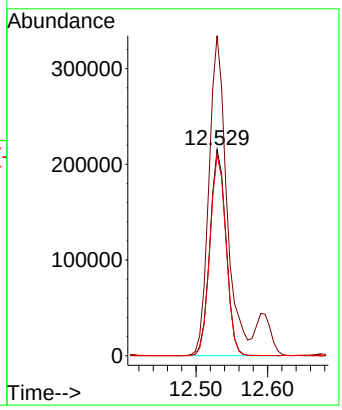


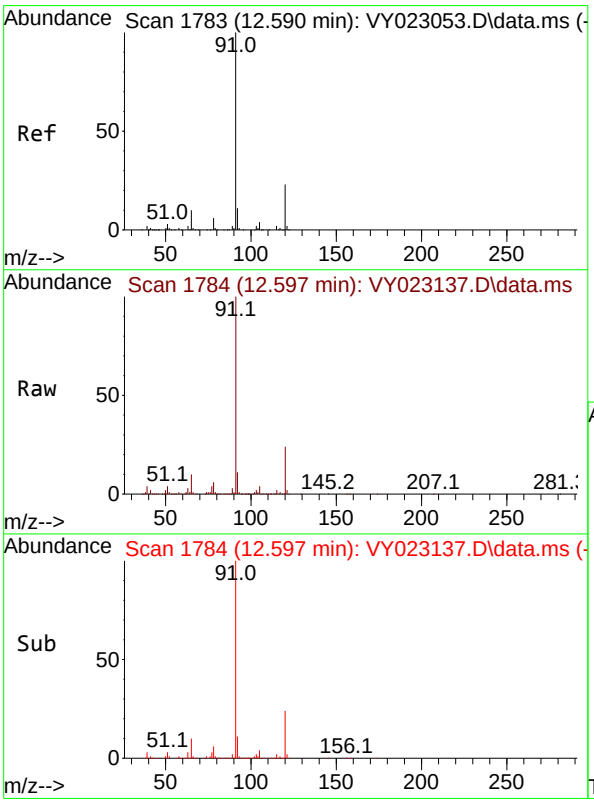
#77
Bromobenzene
Concen: 50.968 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

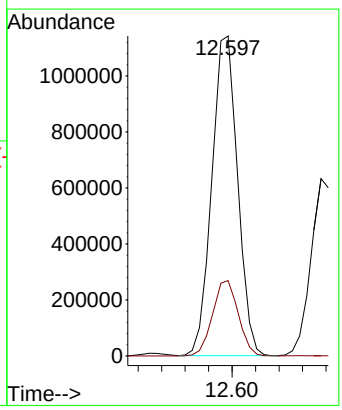


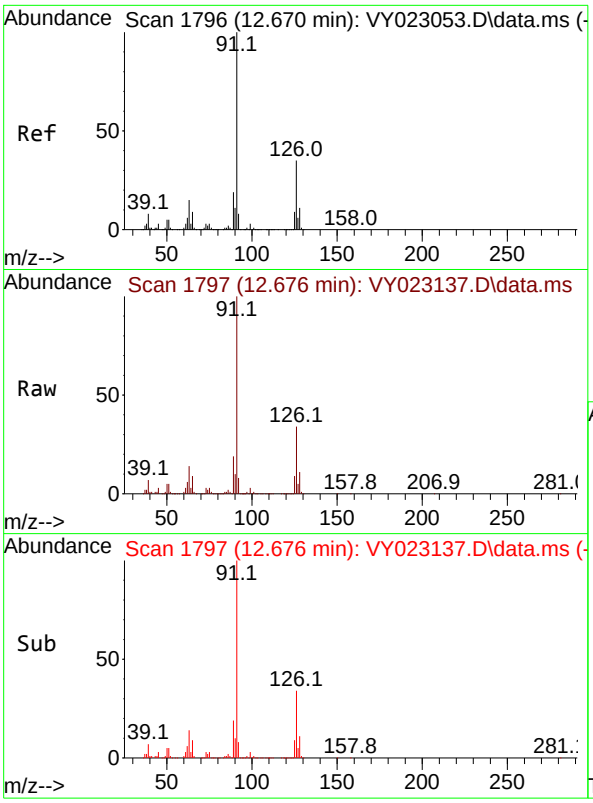


#78
n-propylbenzene
Concen: 52.806 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1741756

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5



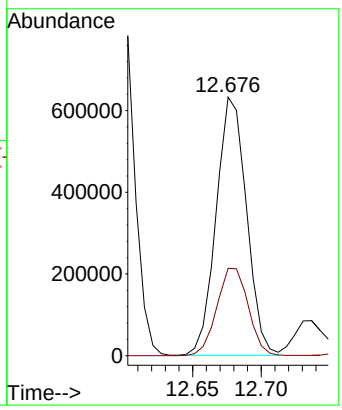


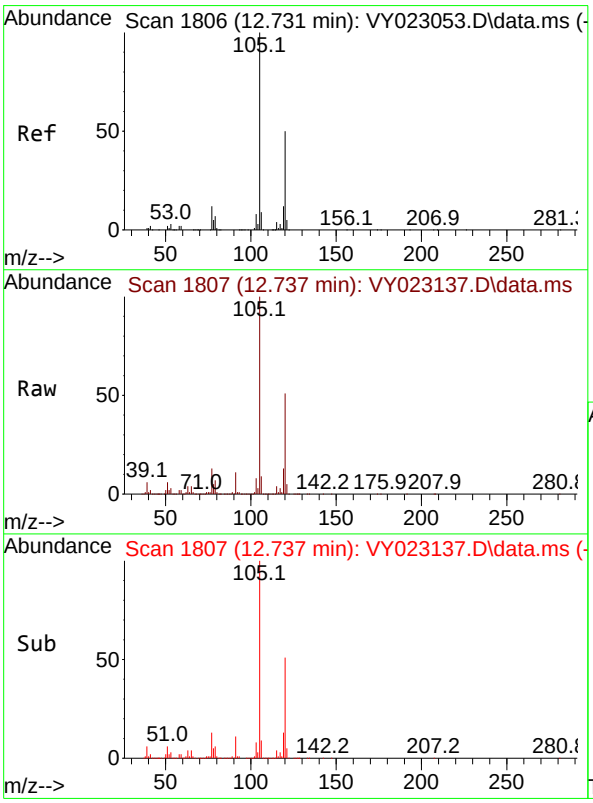
#79
2-Chlorotoluene
Concen: 51.594 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 975057

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3

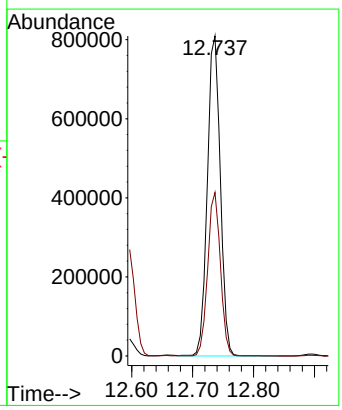


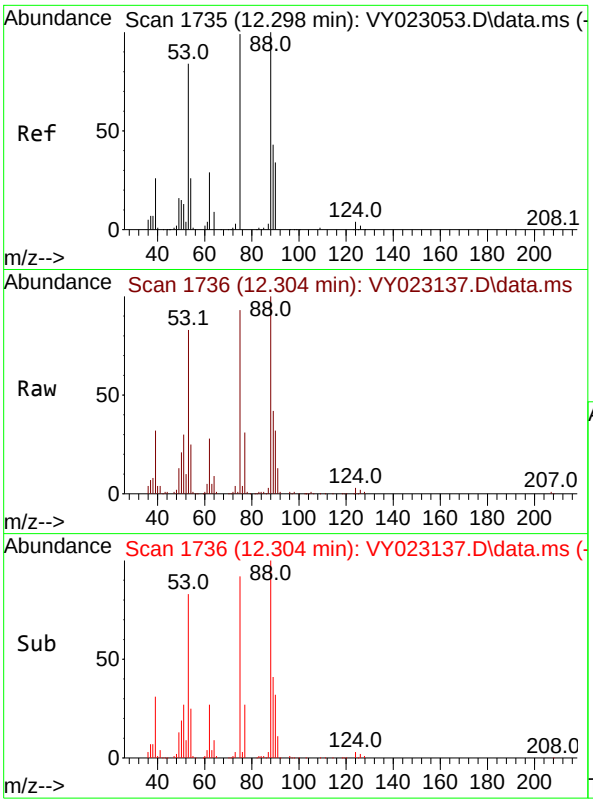


#80
1,3,5-Trimethylbenzene
Concen: 53.229 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191826

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4



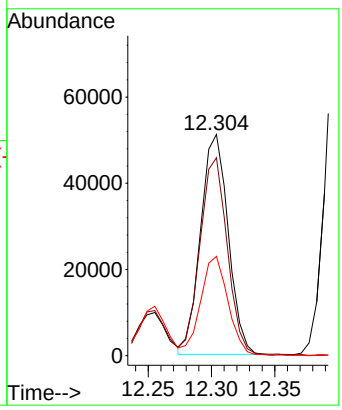


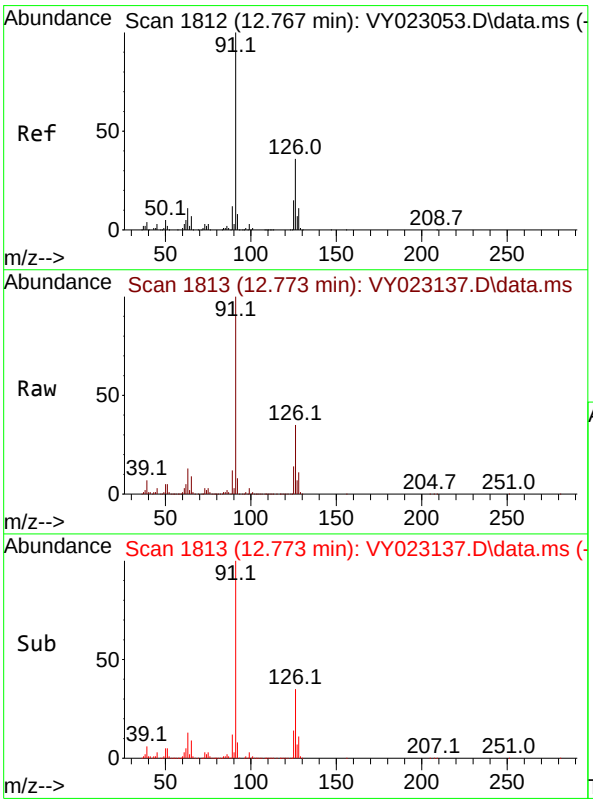
#81
trans-1,4-Dichloro-2-butene
Concen: 49.570 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

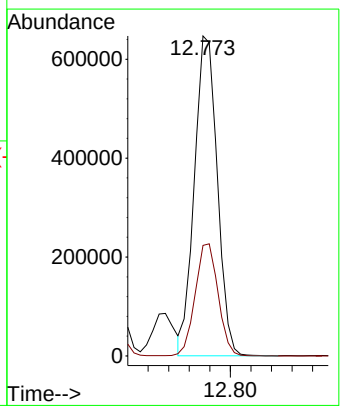


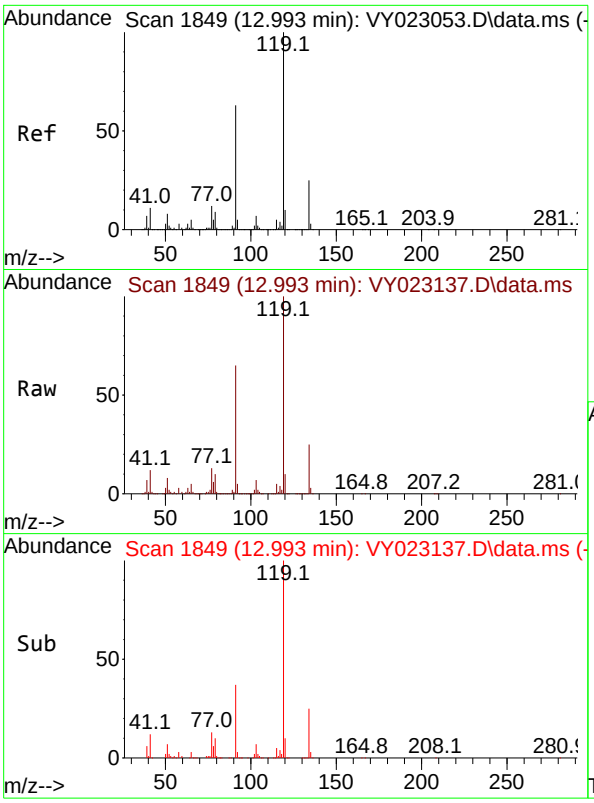


#82
4-Chlorotoluene
Concen: 51.036 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1000547

Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.3	52.0



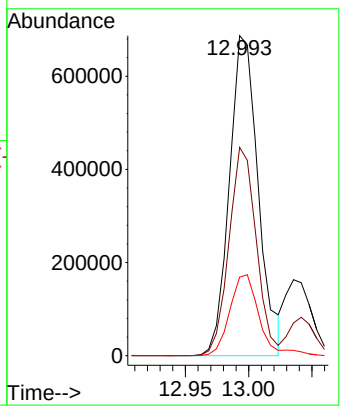


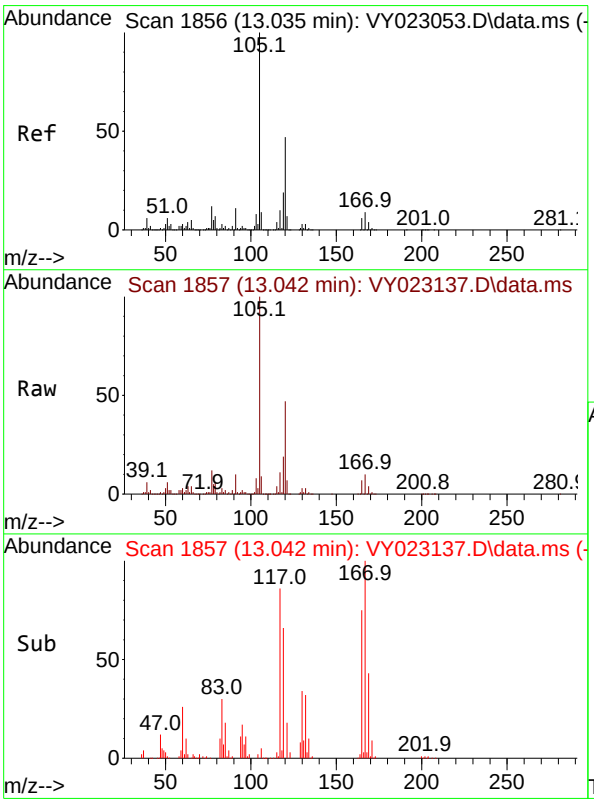
#83
tert-Butylbenzene
Concen: 53.956 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

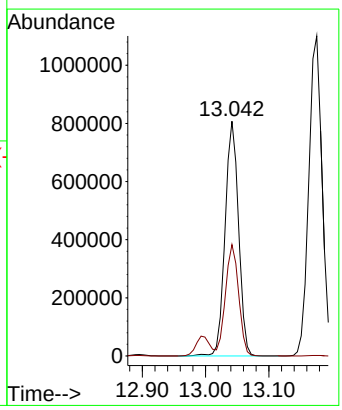


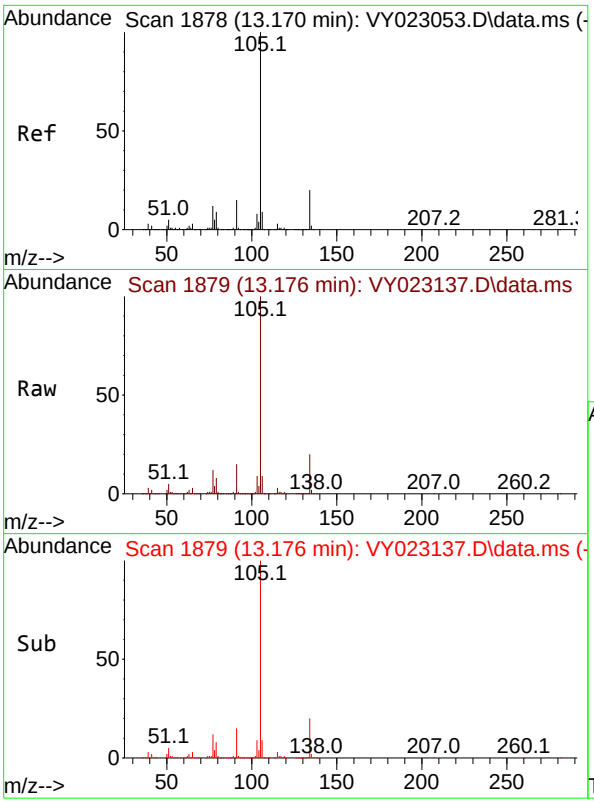


#84
1,2,4-Trimethylbenzene
Concen: 53.459 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191535

Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0



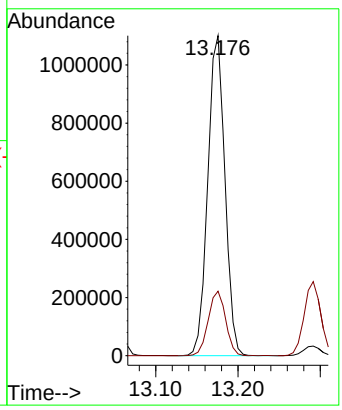


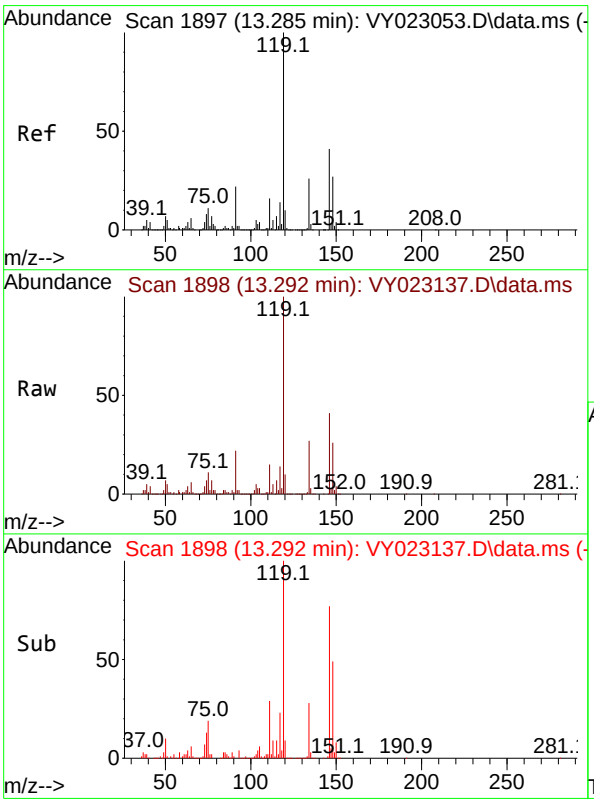
#85
sec-Butylbenzene
Concen: 53.673 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1594423

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

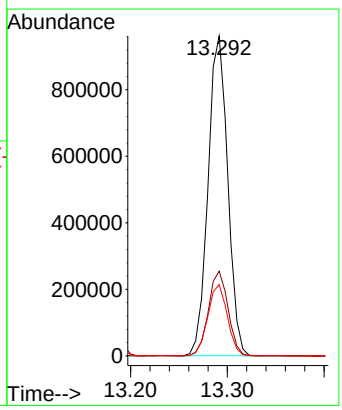


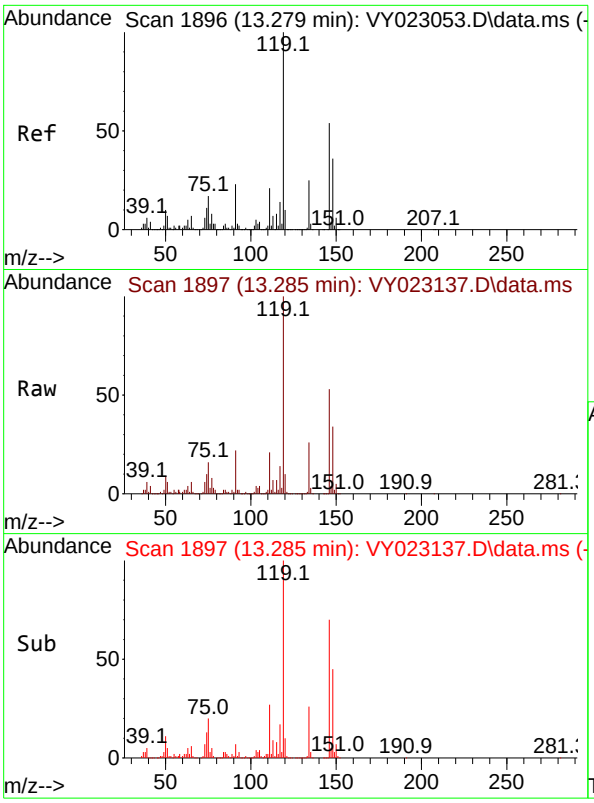


#86
p-Isopropyltoluene
Concen: 55.063 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



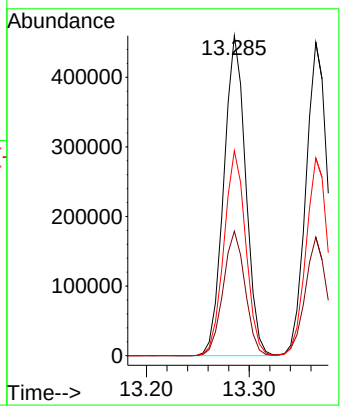


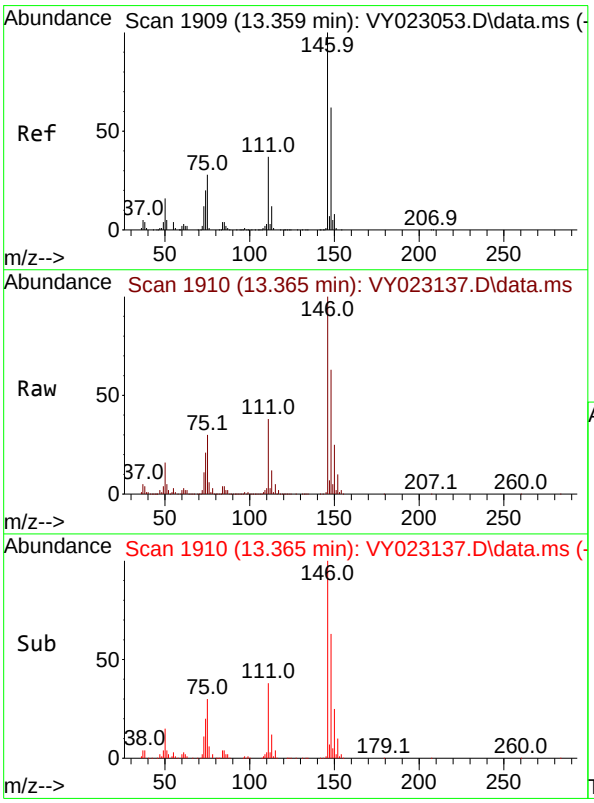
#87
1,3-Dichlorobenzene
Concen: 52.231 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

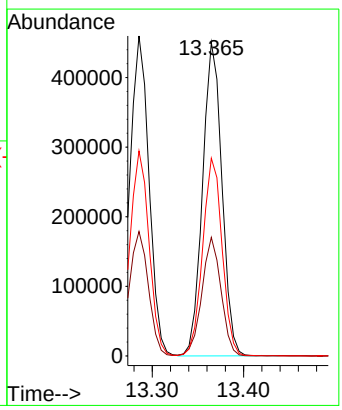


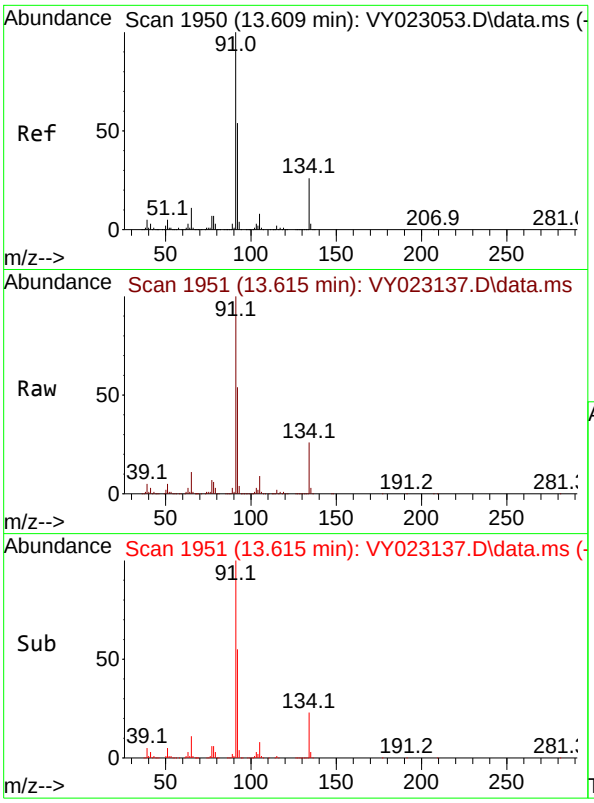


#88
1,4-Dichlorobenzene
Concen: 51.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



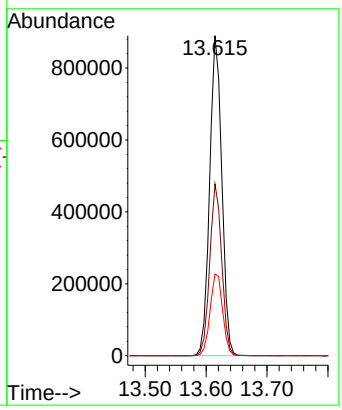


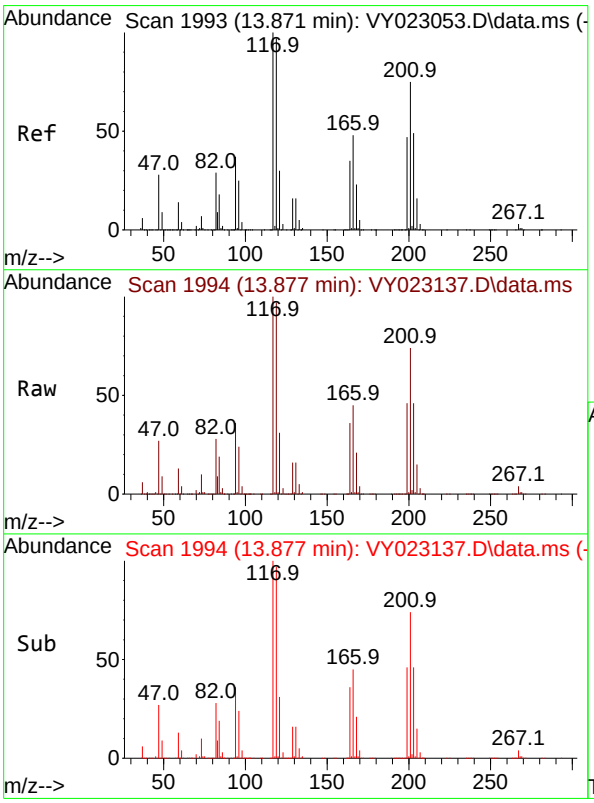
#89
n-Butylbenzene
Concen: 54.384 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

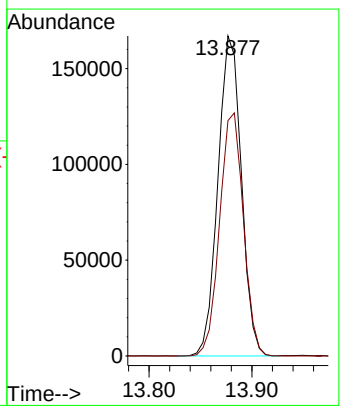


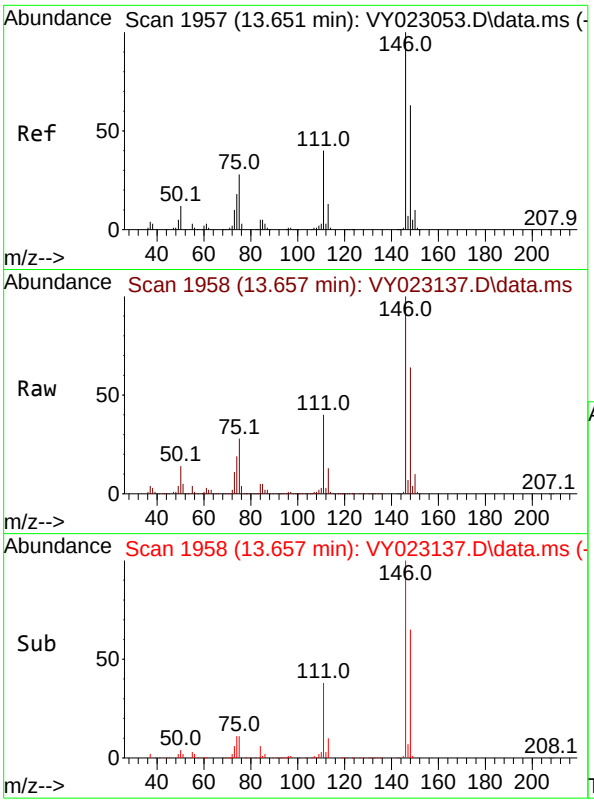


#90
Hexachloroethane
Concen: 52.354 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 264268

Ion	Ratio	Lower	Upper
117	100		
201	77.1	38.4	115.1



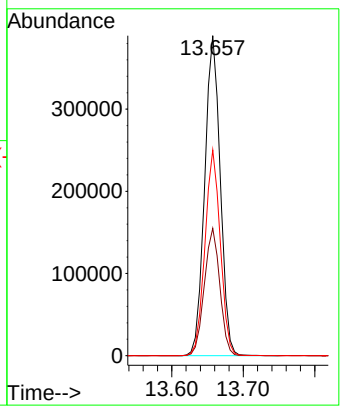


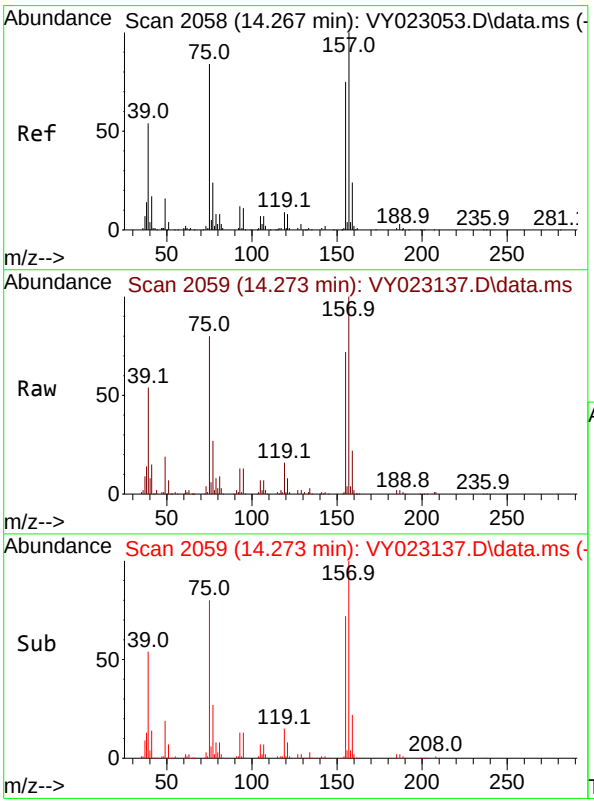
#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

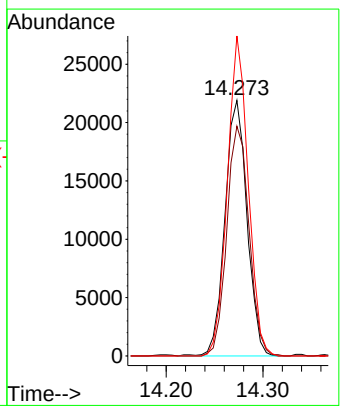


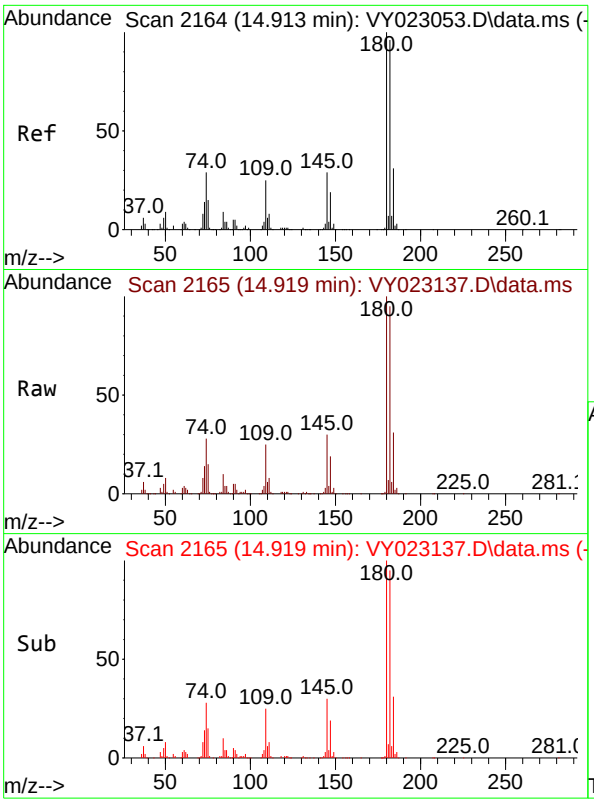


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.081 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



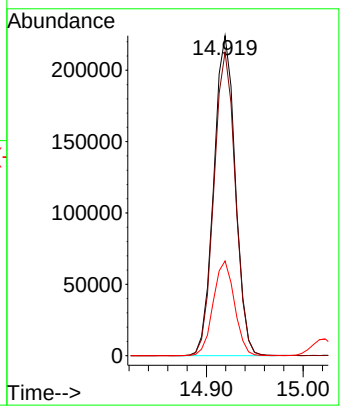


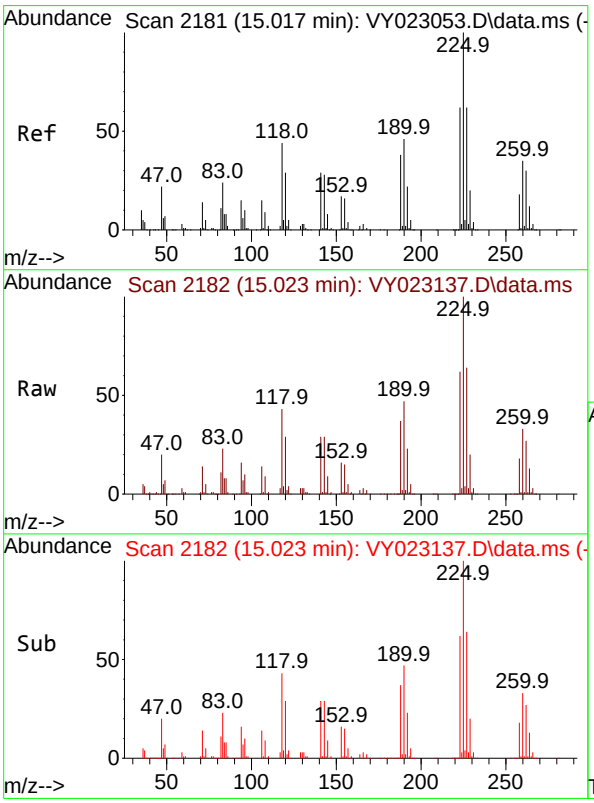
#93
1,2,4-Trichlorobenzene
Concen: 51.158 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

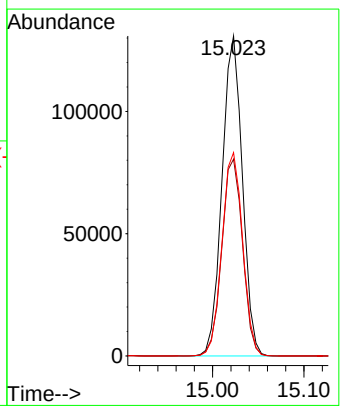


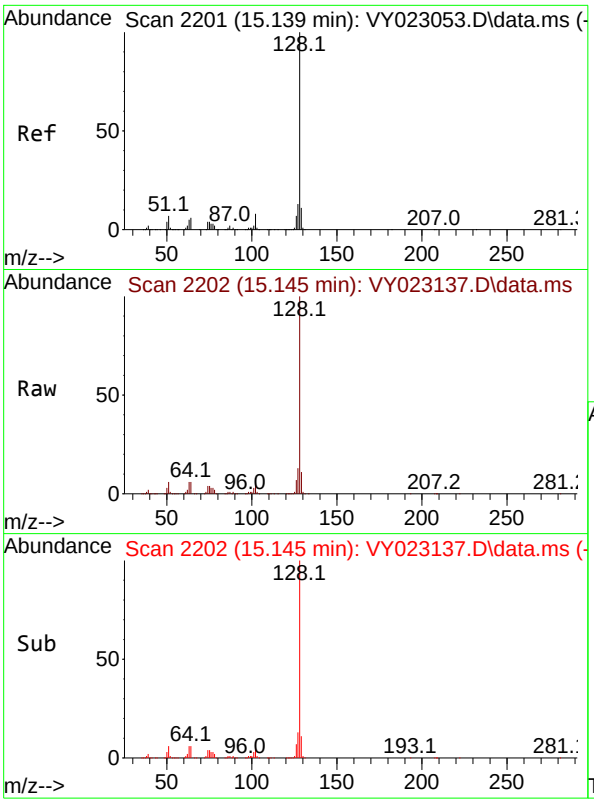


#94
Hexachlorobutadiene
Concen: 50.885 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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



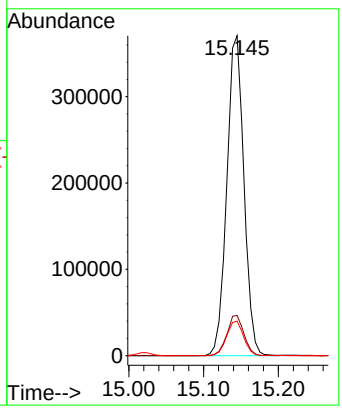


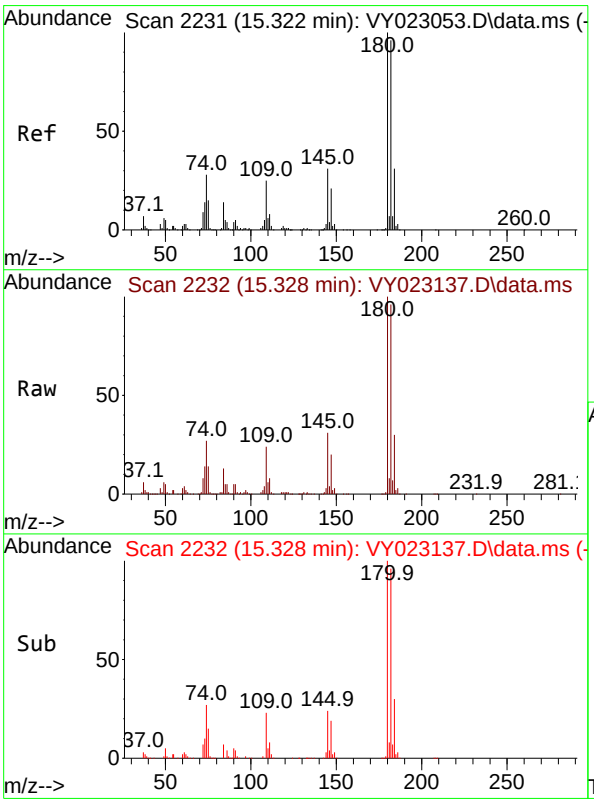
#95
Naphthalene
Concen: 51.208 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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

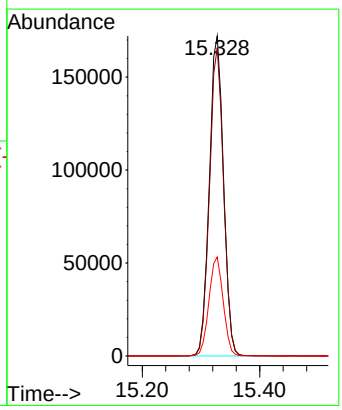




#96
1,2,3-Trichlorobenzene
Concen: 49.517 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

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)

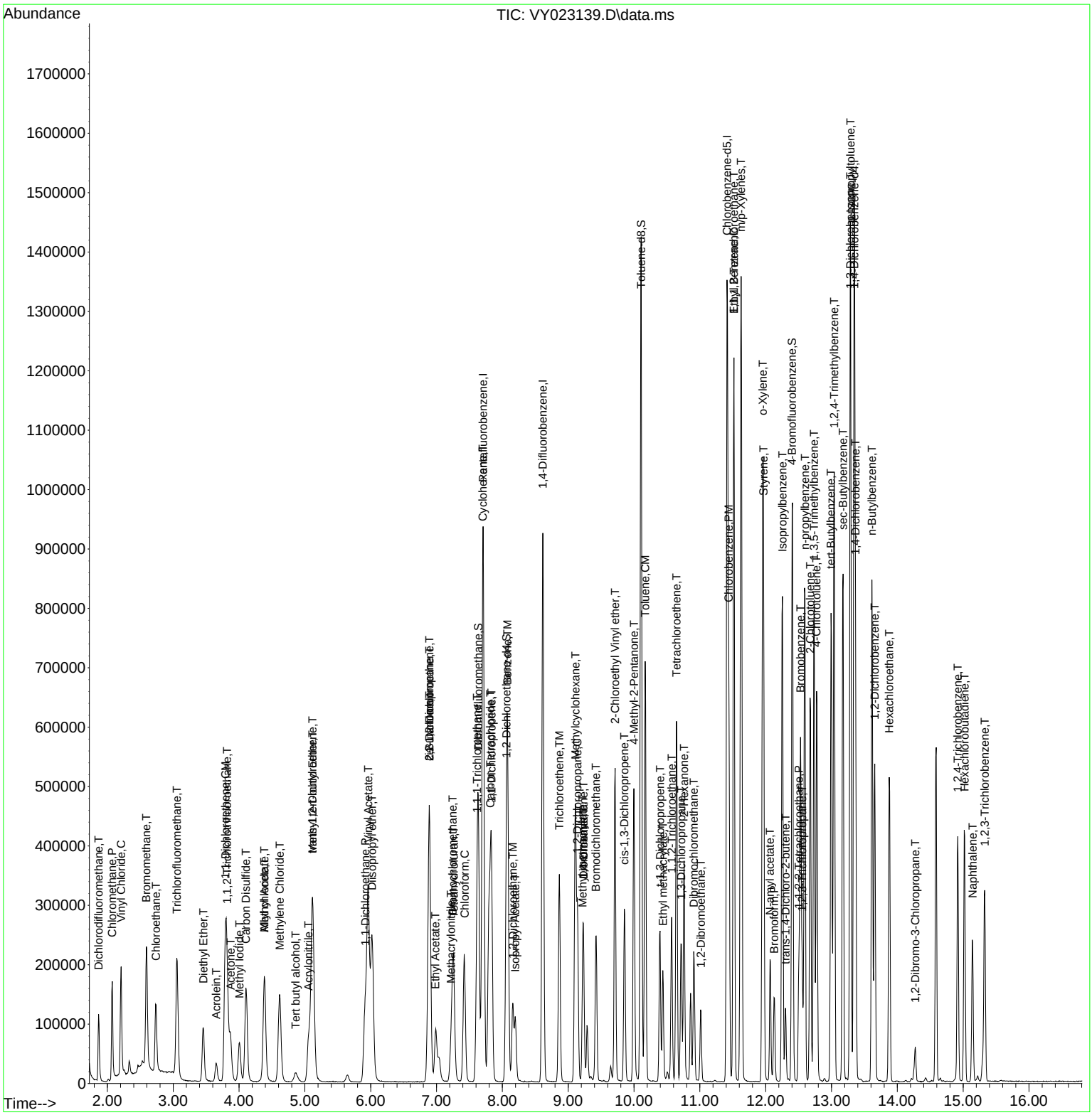
(#) = qualifier out of range (m) = manual integration (+) = signals summed

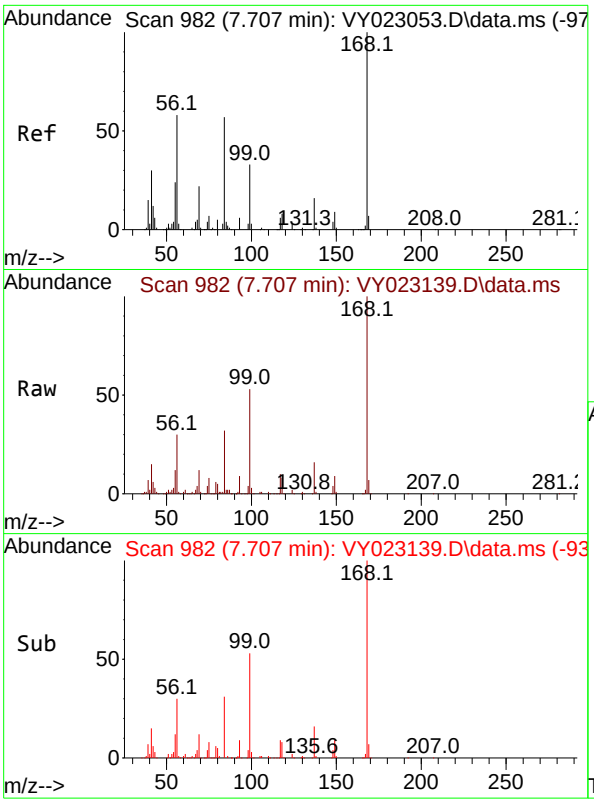
Quantitation Report (Not Reviewed)

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



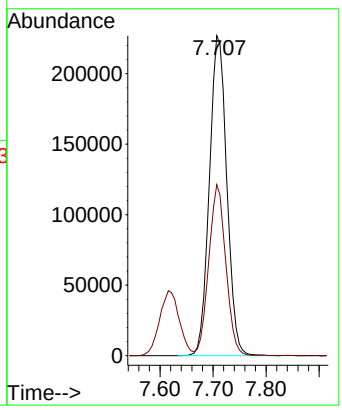


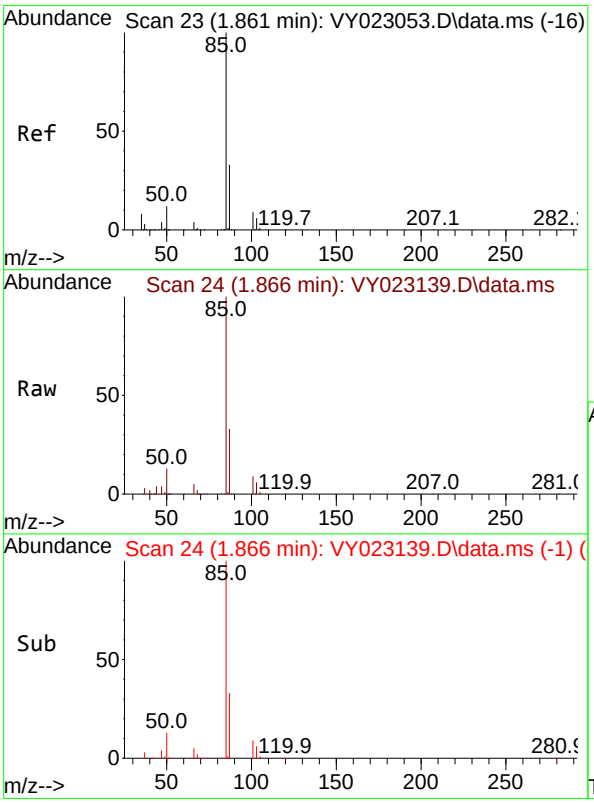
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:168 Resp: 517532

Ion	Ratio	Lower	Upper
168	100		
99	53.4	42.8	64.2

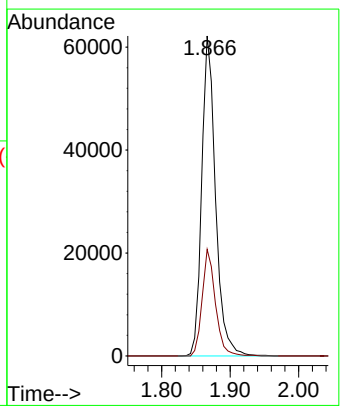


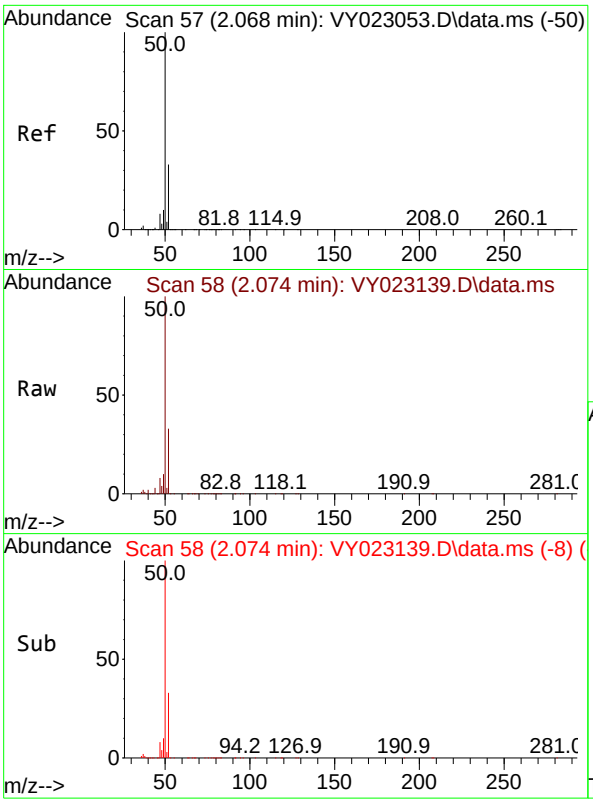


#2
Dichlorodifluoromethane
Concen: 20.661 ug/l
RT: 1.866 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 85 Resp: 87281

Ion	Ratio	Lower	Upper
85	100		
87	33.3	16.6	49.8



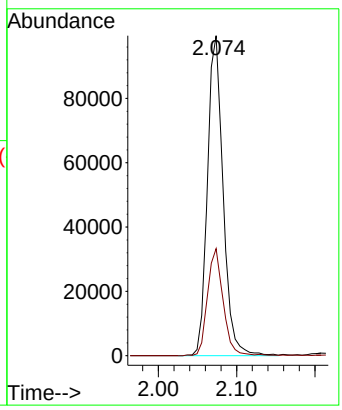


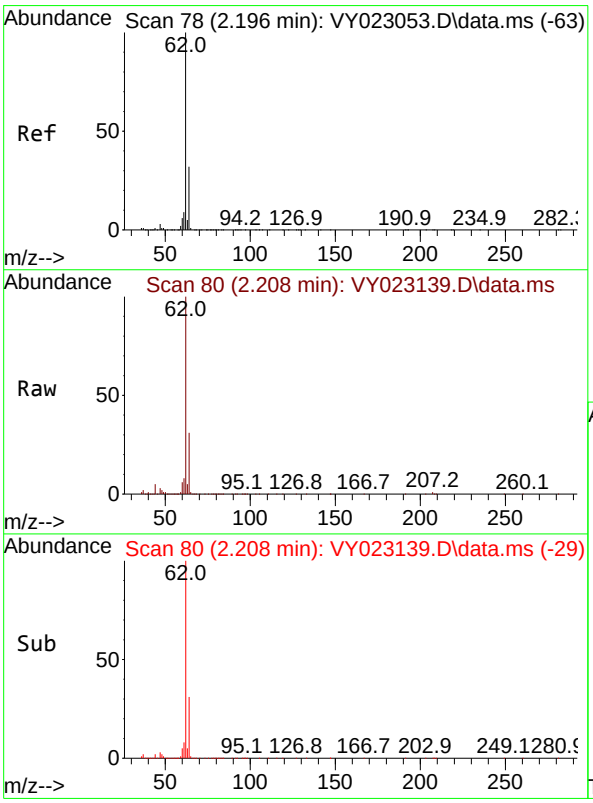
#3
Chloromethane
Concen: 20.171 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 50 Resp: 138015

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.7	40.1

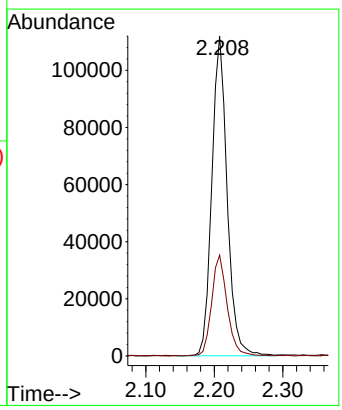


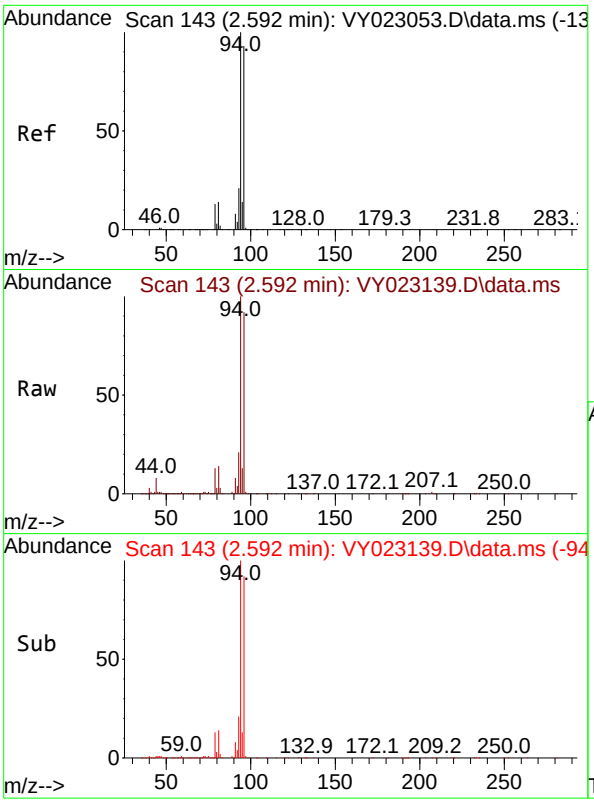


#4
Vinyl Chloride
Concen: 20.552 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 173827

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.4	38.0



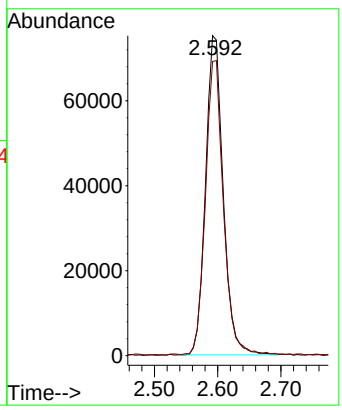


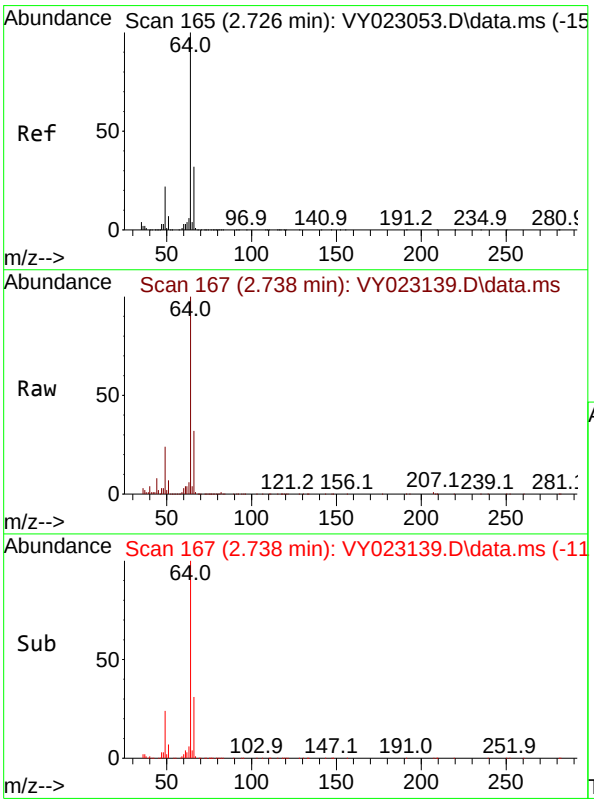
#5
Bromomethane
Concen: 23.152 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 94 Resp: 146241

Ion	Ratio	Lower	Upper
94	100		
96	91.7	74.6	112.0

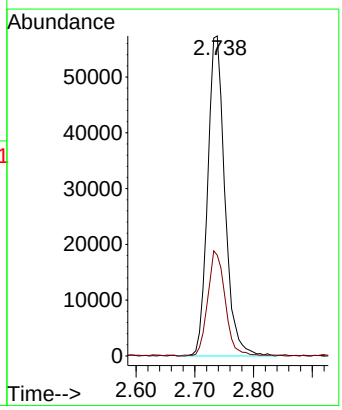


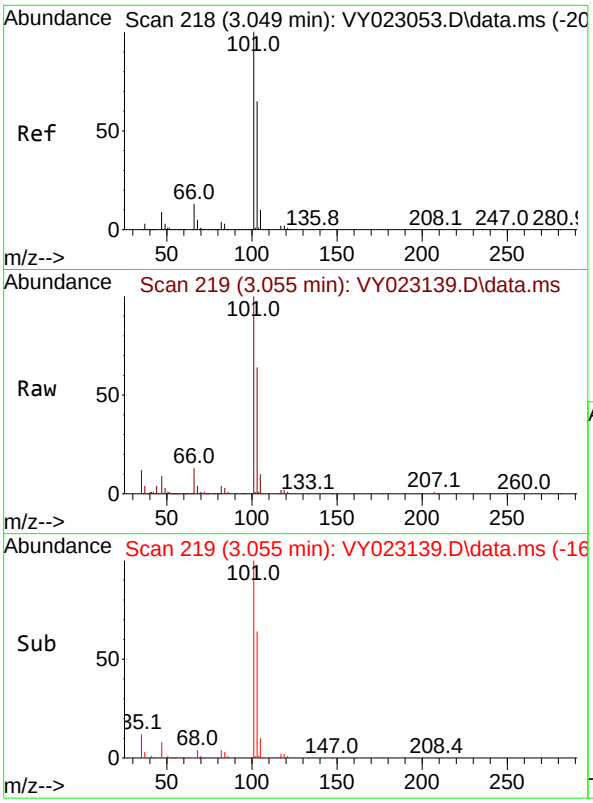


#6
Chloroethane
Concen: 20.757 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 64 Resp: 116717

Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.8	38.6



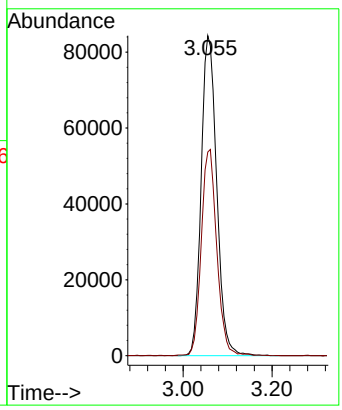


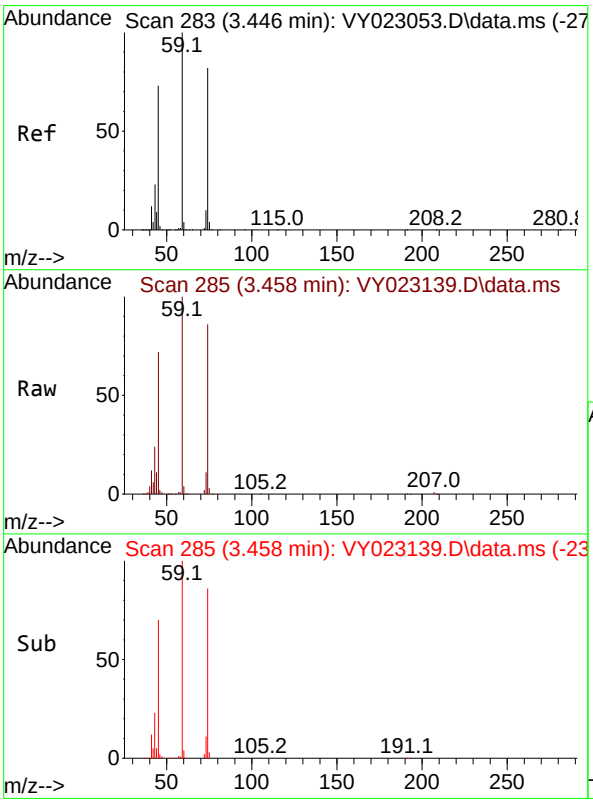
#7
Trichlorofluoromethane
Concen: 19.958 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:101 Resp: 205259

Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.9	77.9

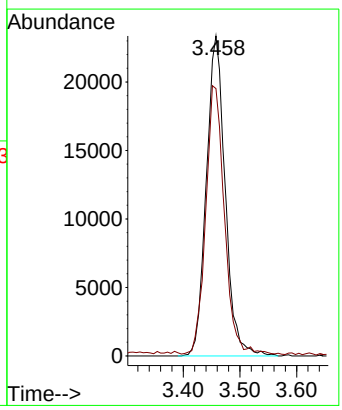


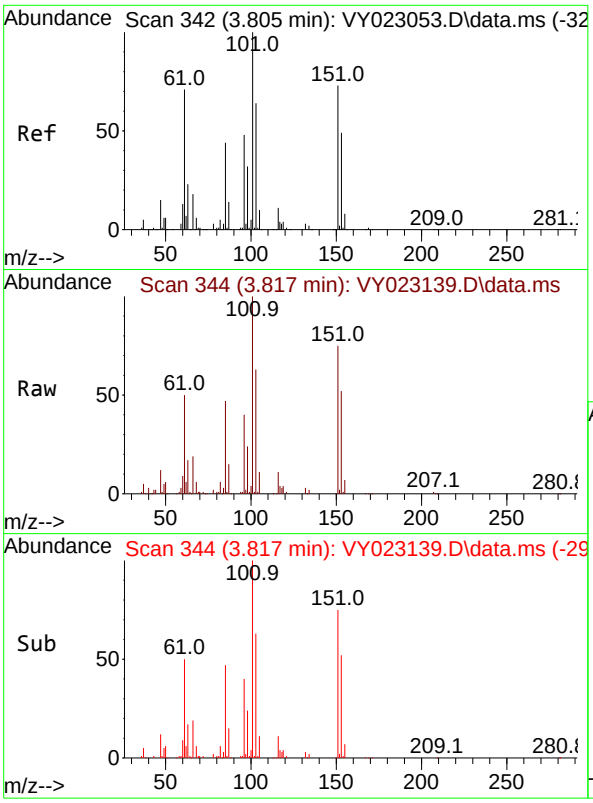


#8
Diethyl Ether
Concen: 19.862 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 74 Resp: 54043

Ion	Ratio	Lower	Upper
74	100		
45	83.3	44.4	133.2



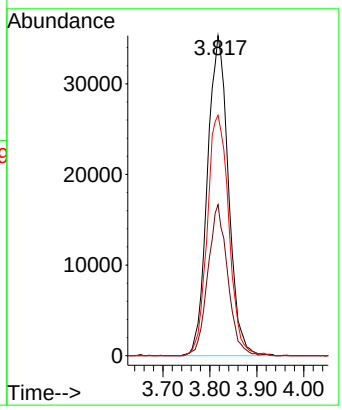


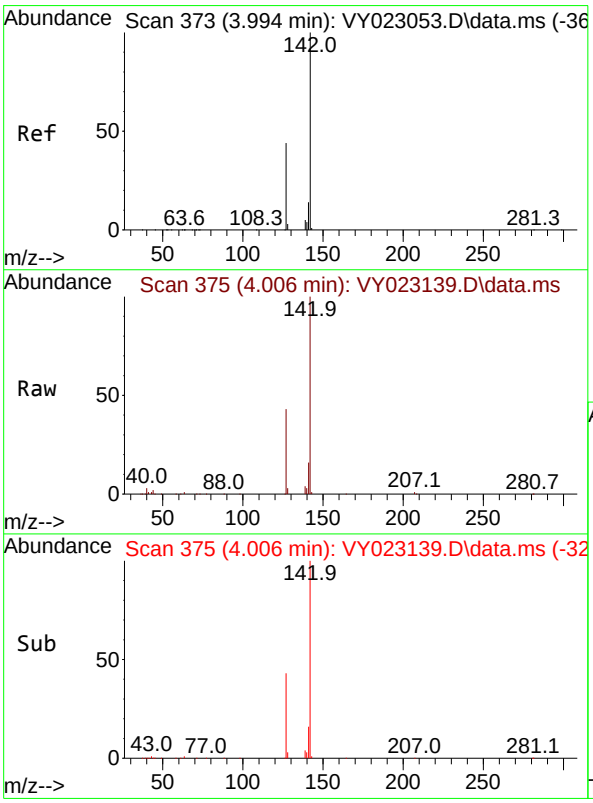
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.510 ug/l
RT: 3.817 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

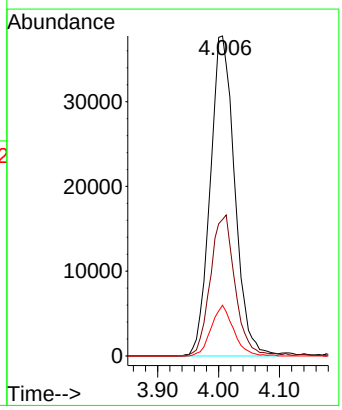


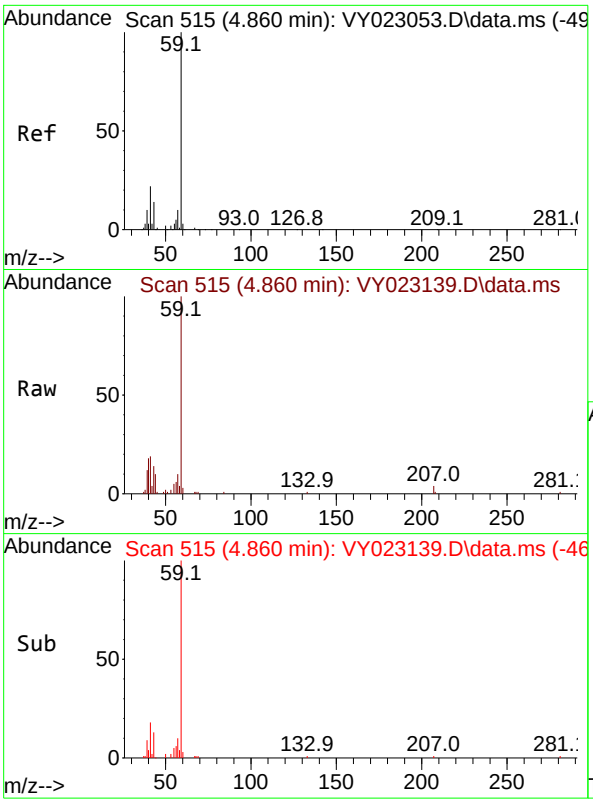


#10
Methyl Iodide
Concen: 19.260 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



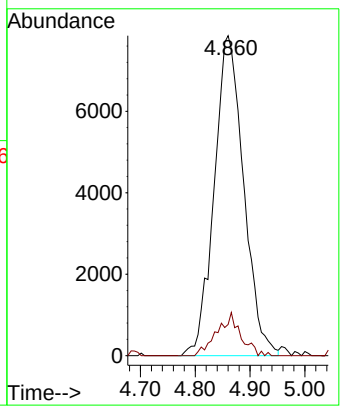


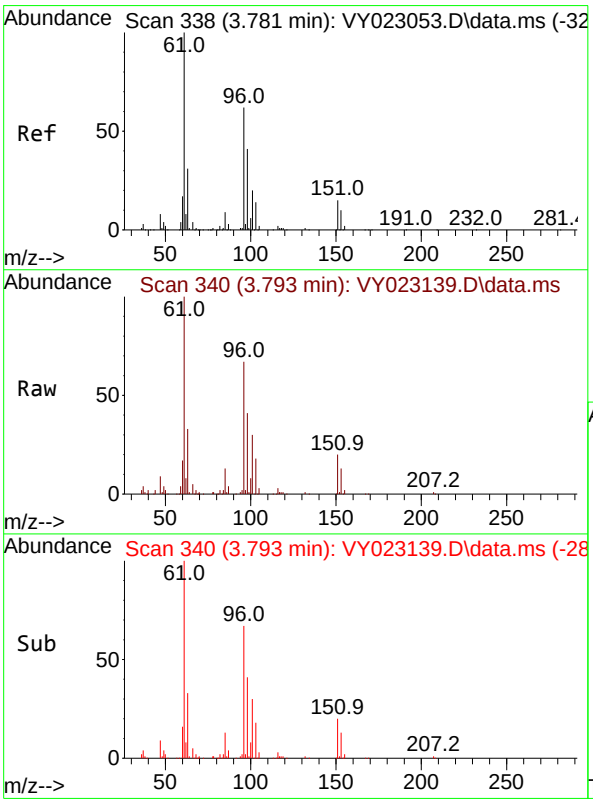
#11
Tert butyl alcohol
Concen: 86.885 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 59 Resp: 29364

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

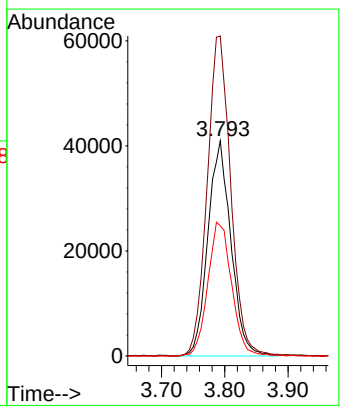


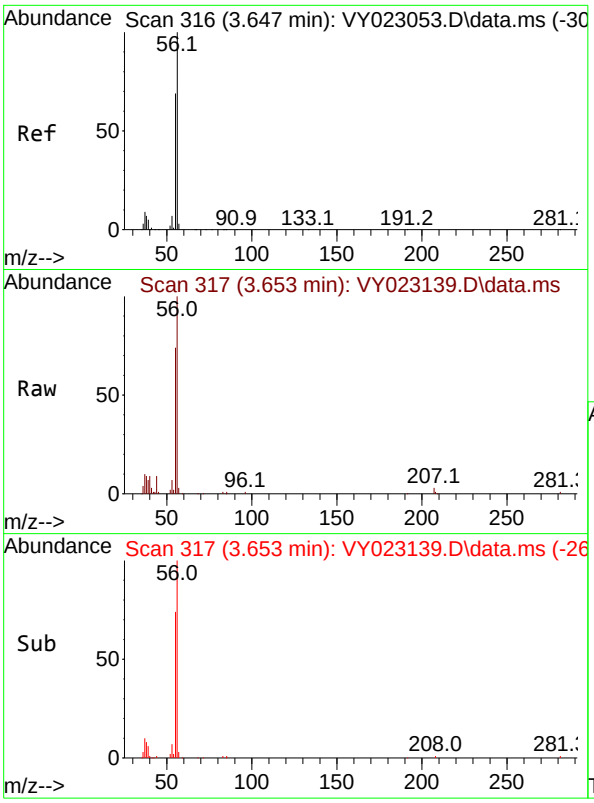


#12
1,1-Dichloroethene
Concen: 20.804 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



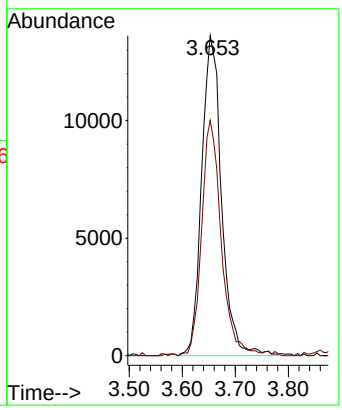


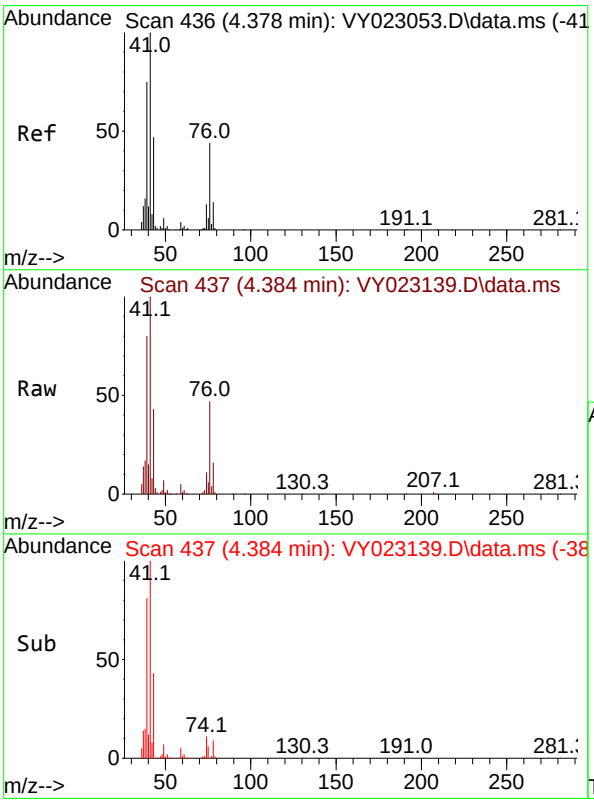
#13
Acrolein
Concen: 71.706 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 56 Resp: 35491

Ion	Ratio	Lower	Upper
56	100		
55	72.0	55.2	82.8

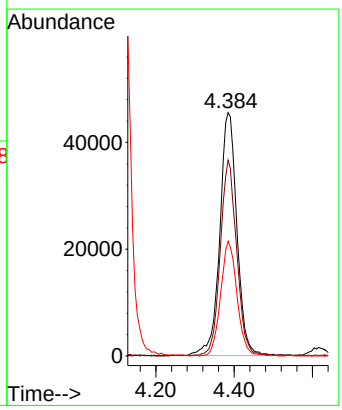


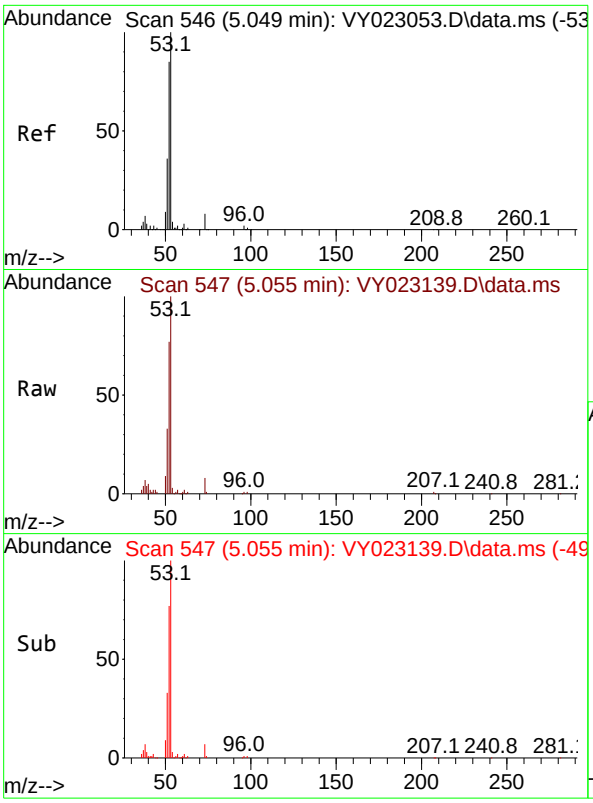


#14
Allyl chloride
Concen: 18.846 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



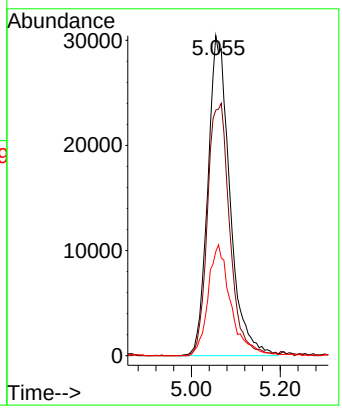


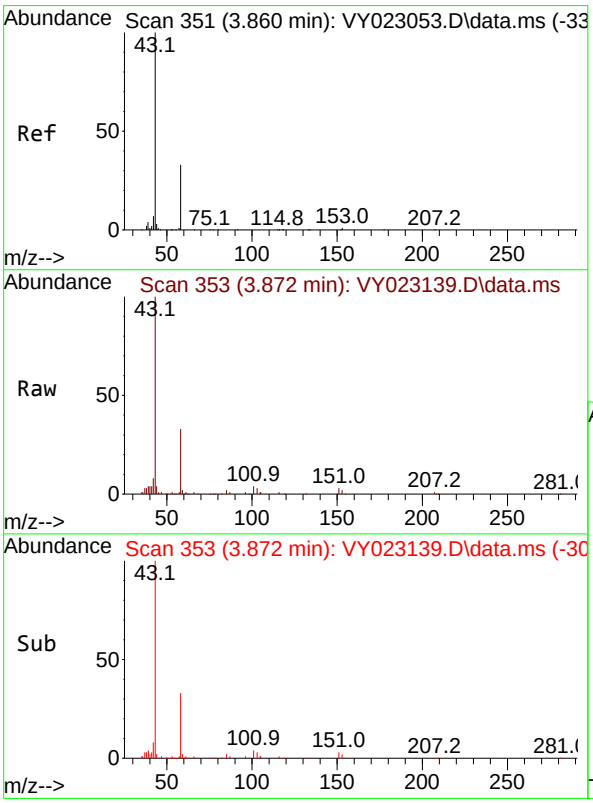
#15
Acrylonitrile
Concen: 94.488 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

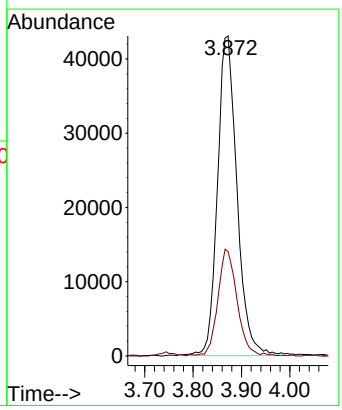


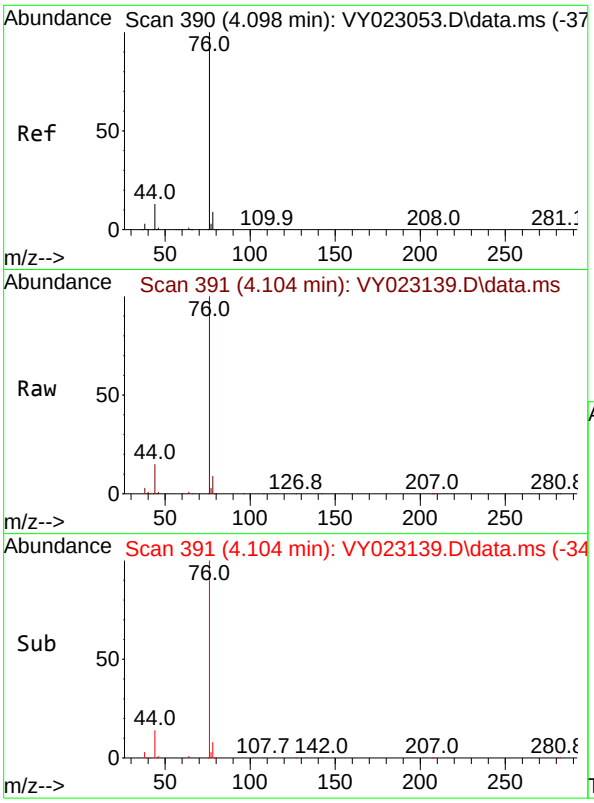


#16
Acetone
Concen: 112.685 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 120414

Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.1	40.7



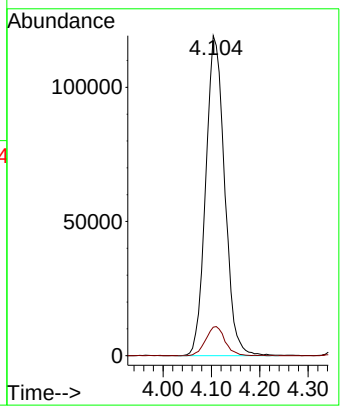


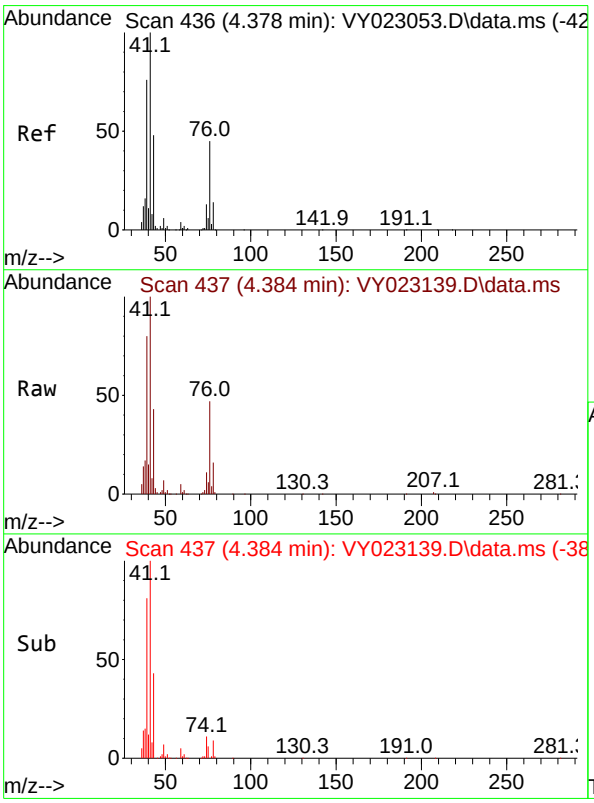
#17
Carbon Disulfide
Concen: 19.905 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 76 Resp: 323680

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.4	11.2

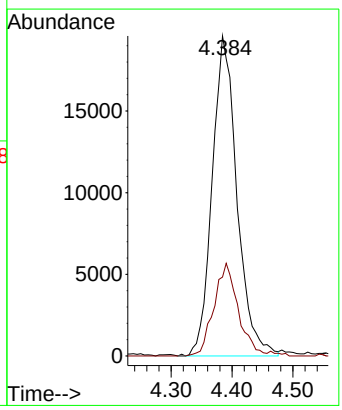


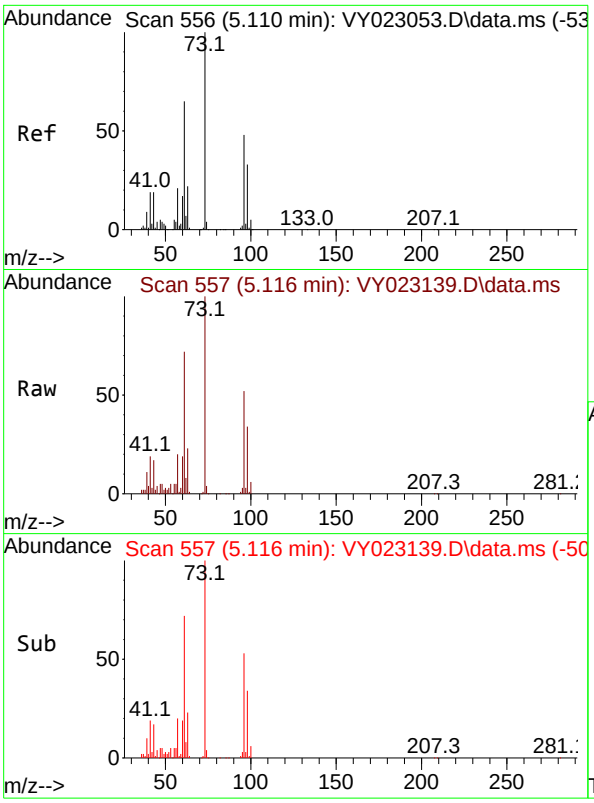


#18
Methyl Acetate
Concen: 17.426 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 55412

Ion	Ratio	Lower	Upper
43	100		
74	28.3	21.2	31.8



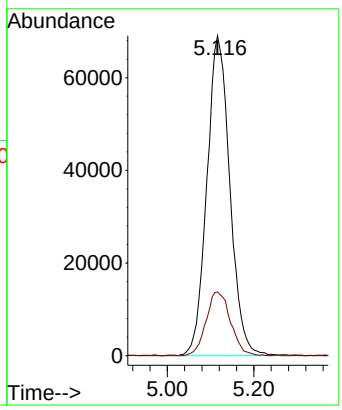


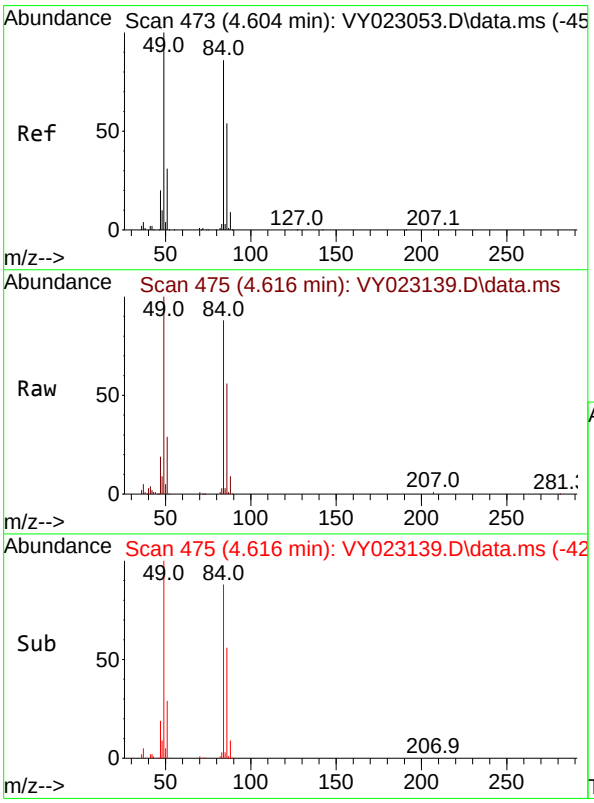
#19
Methyl tert-butyl Ether
Concen: 19.720 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 73 Resp: 254848

Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.1	25.7

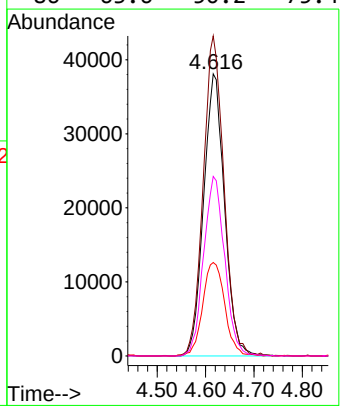


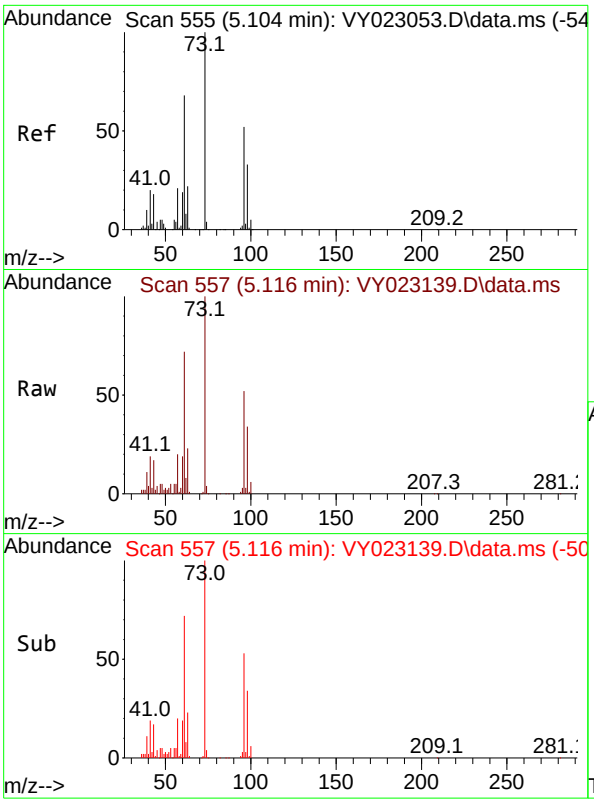


#20
Methylene Chloride
Concen: 18.875 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



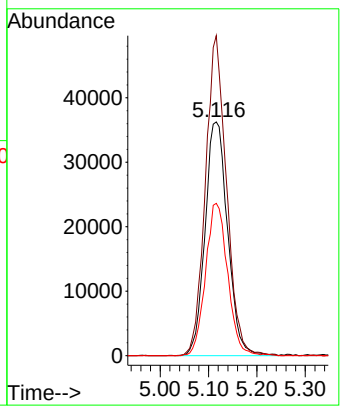


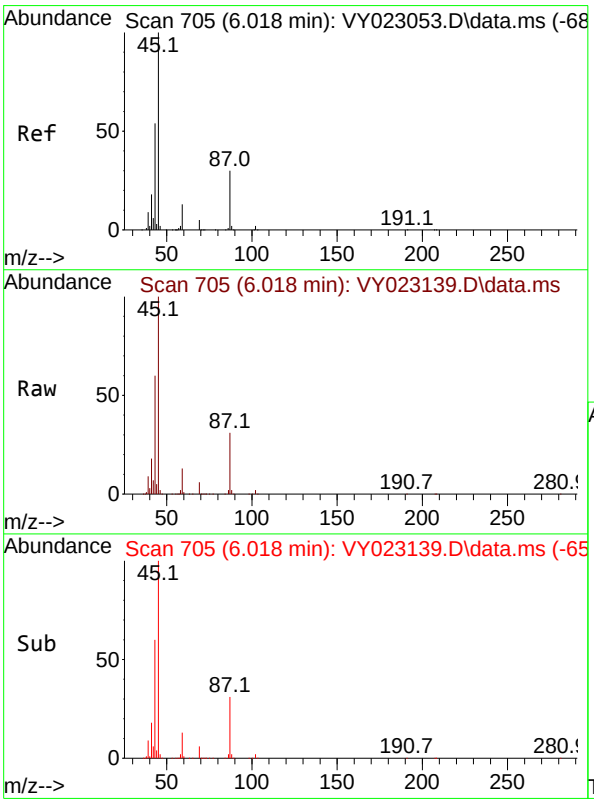
#21
trans-1,2-Dichloroethene
Concen: 20.993 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

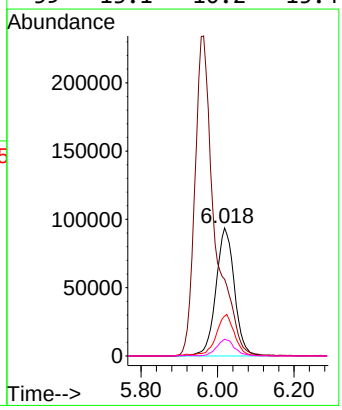


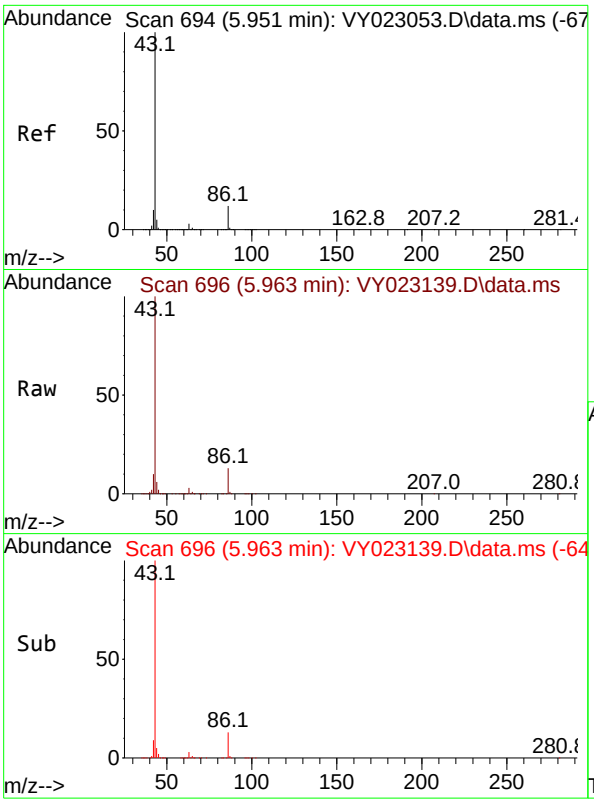


#22
Diisopropyl ether
Concen: 19.728 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



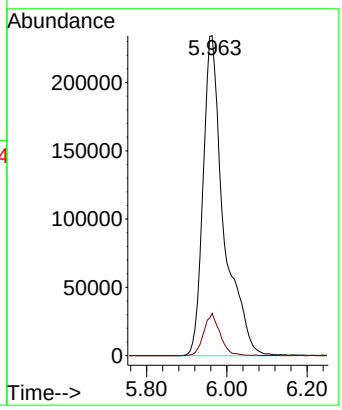


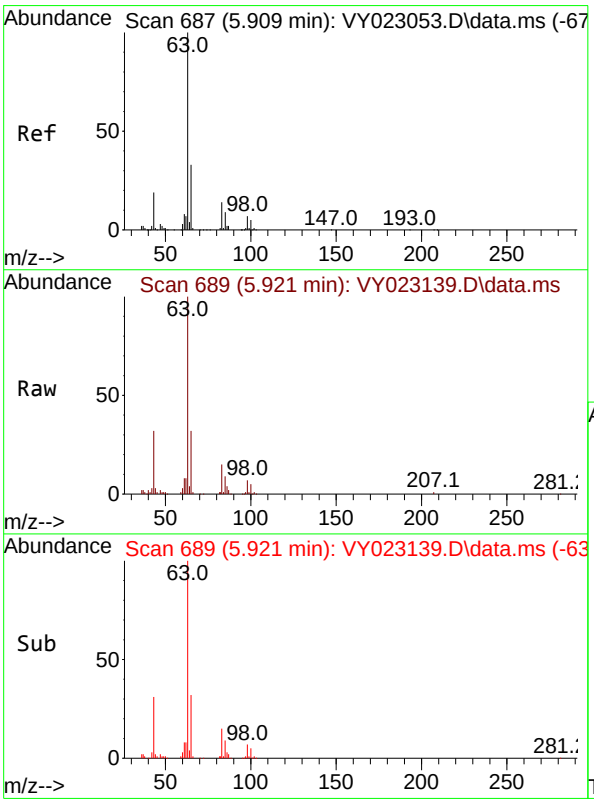
#23
Vinyl Acetate
Concen: 94.938 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 837107

Ion	Ratio	Lower	Upper
43	100		
86	13.2	9.6	14.4

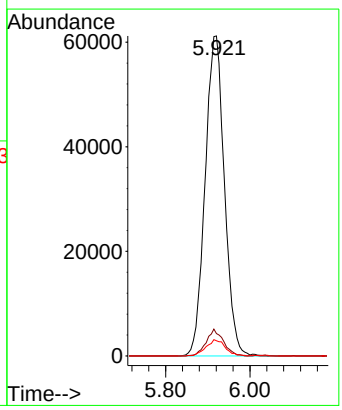


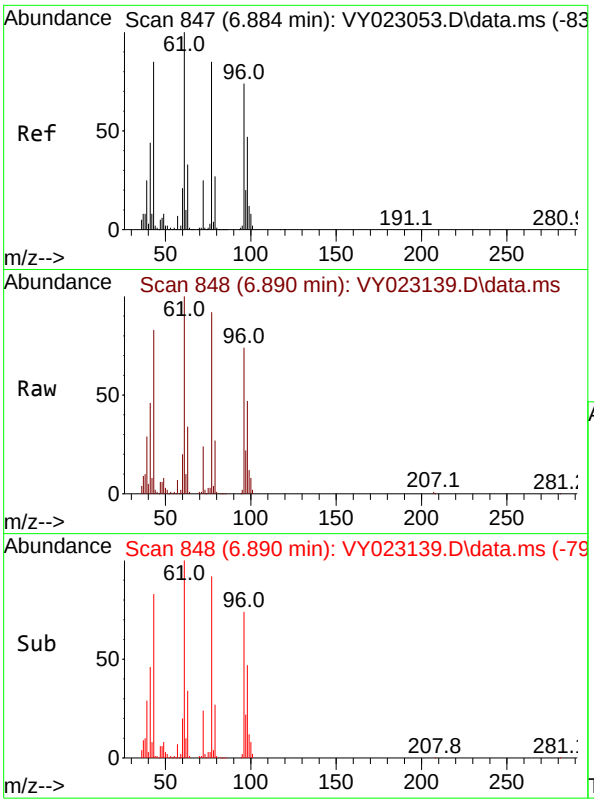


#24
1,1-Dichloroethane
Concen: 19.979 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



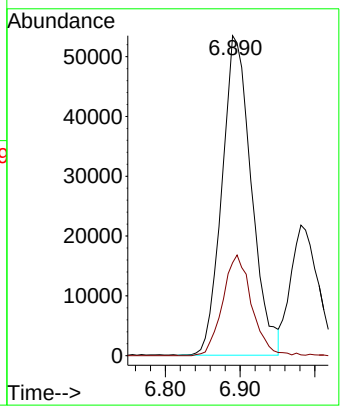


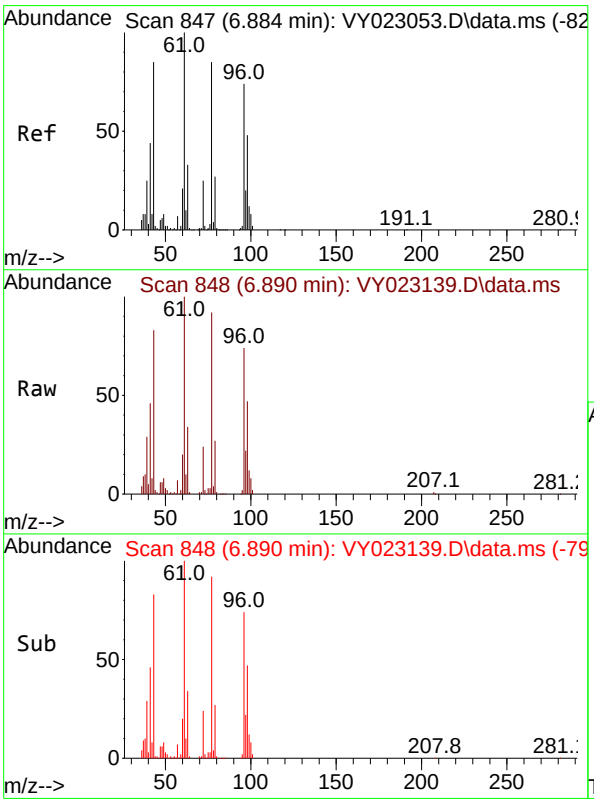
#25
2-Butanone
Concen: 100.847 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 146563

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.5	35.3

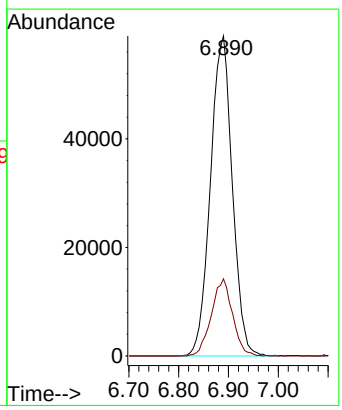


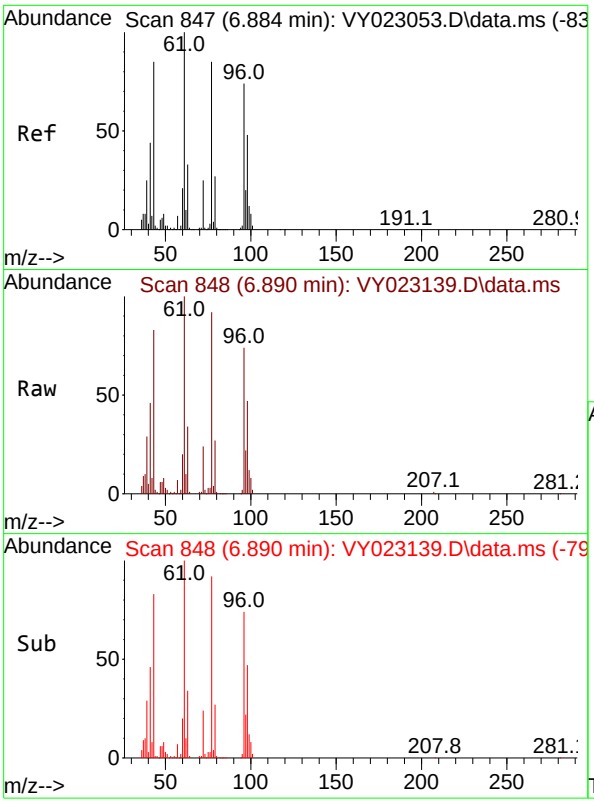


#26
2,2-Dichloropropane
Concen: 21.352 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 77 Resp: 179625

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.8



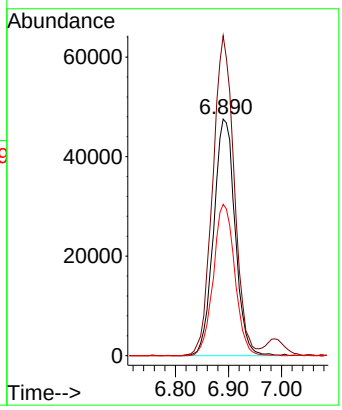


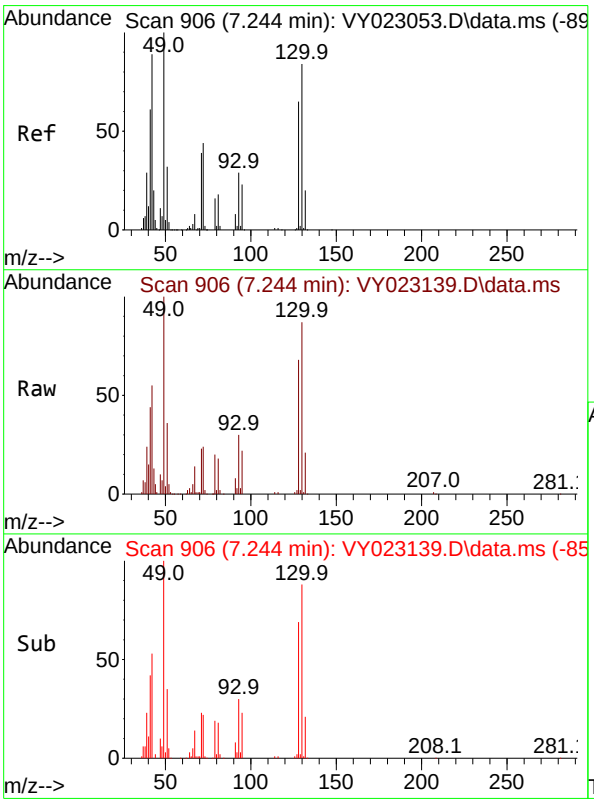
#27
cis-1,2-Dichloroethene
Concen: 20.582 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

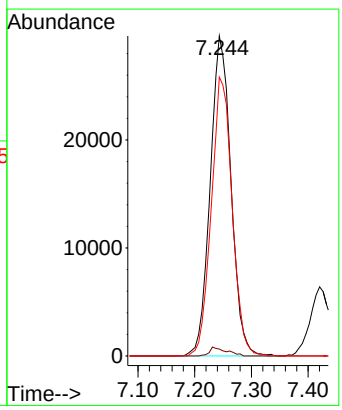


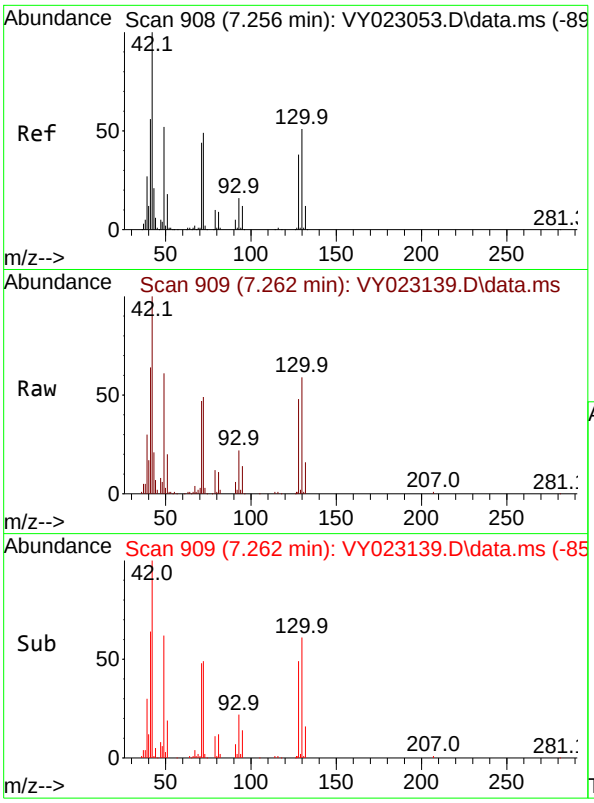


#28
Bromochloromethane
Concen: 19.474 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



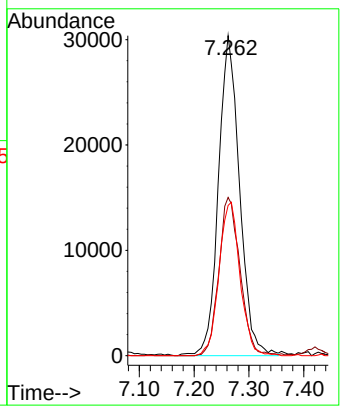


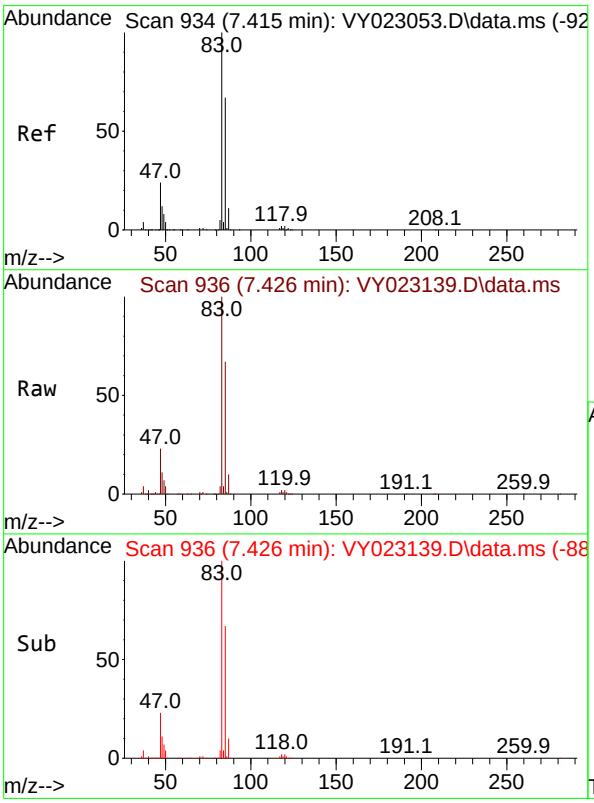
#29
Tetrahydrofuran
Concen: 90.389 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

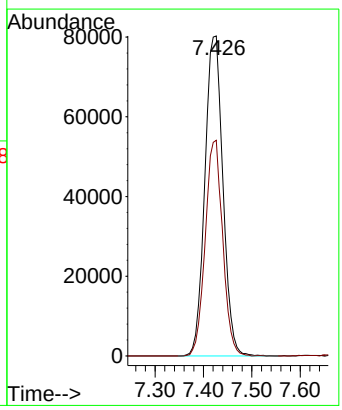


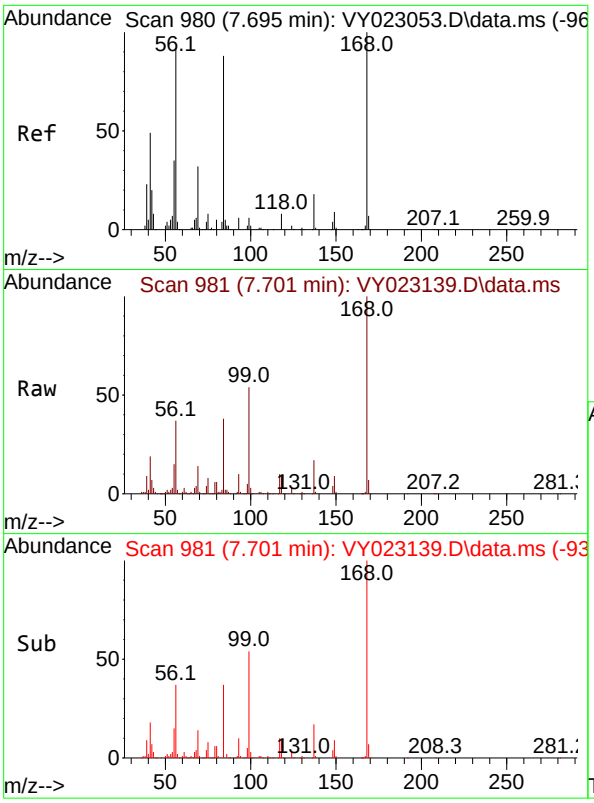


#30
Chloroform
Concen: 20.690 ug/l
RT: 7.426 min Scan# 936
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 208029

Ion	Ratio	Lower	Upper
83	100		
85	67.4	53.8	80.8



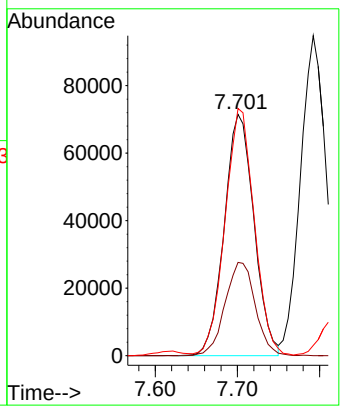


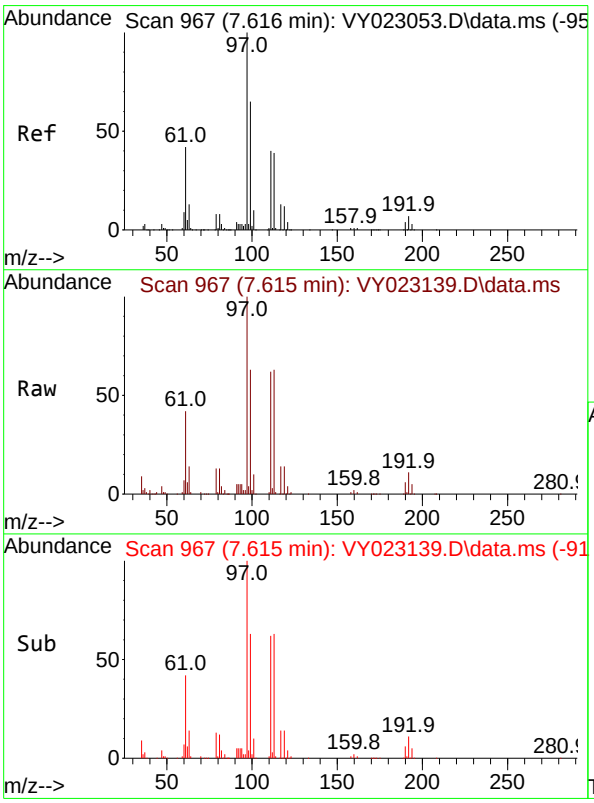
#31
Cyclohexane
Concen: 19.640 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

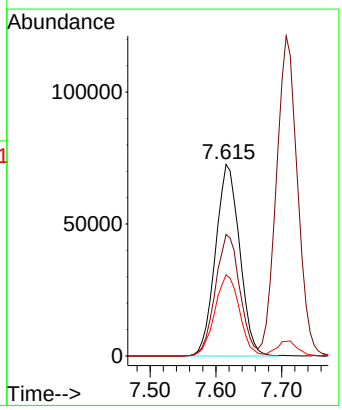


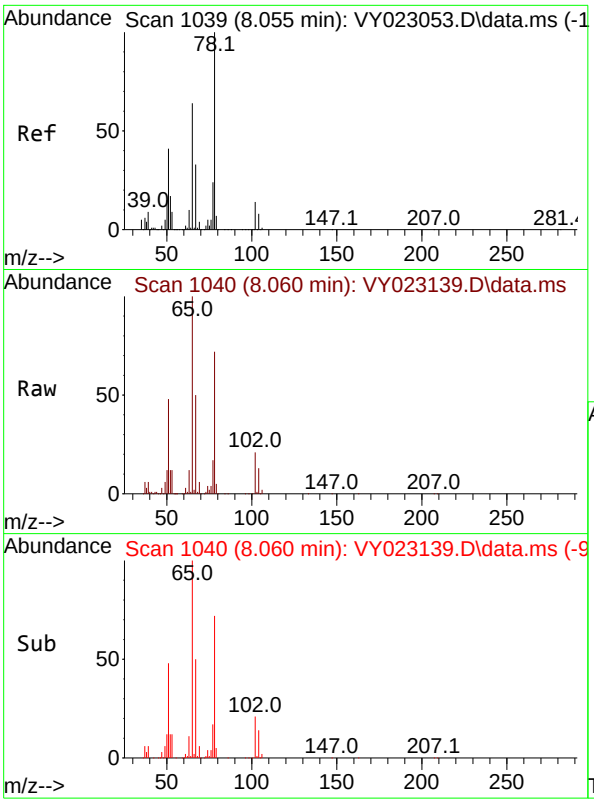


#32
1,1,1-Trichloroethane
Concen: 20.833 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



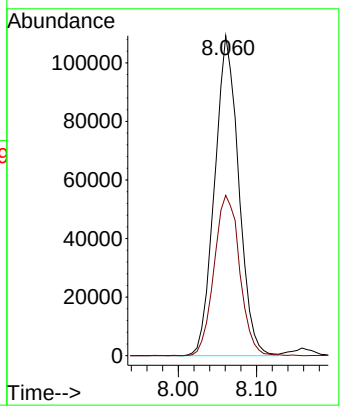


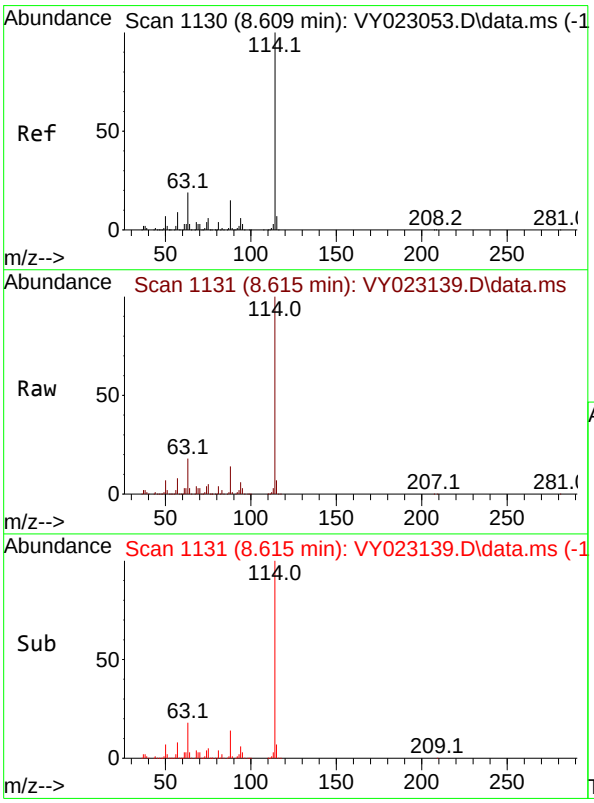
#33
1,2-Dichloroethane-d4
Concen: 47.365 ug/l
RT: 8.060 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 65 Resp: 233623

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.8

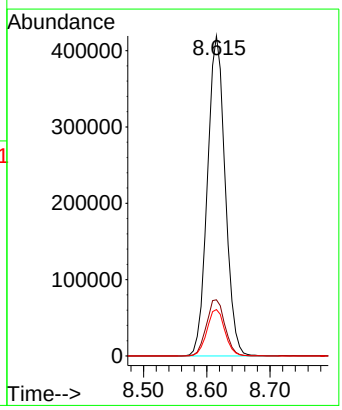


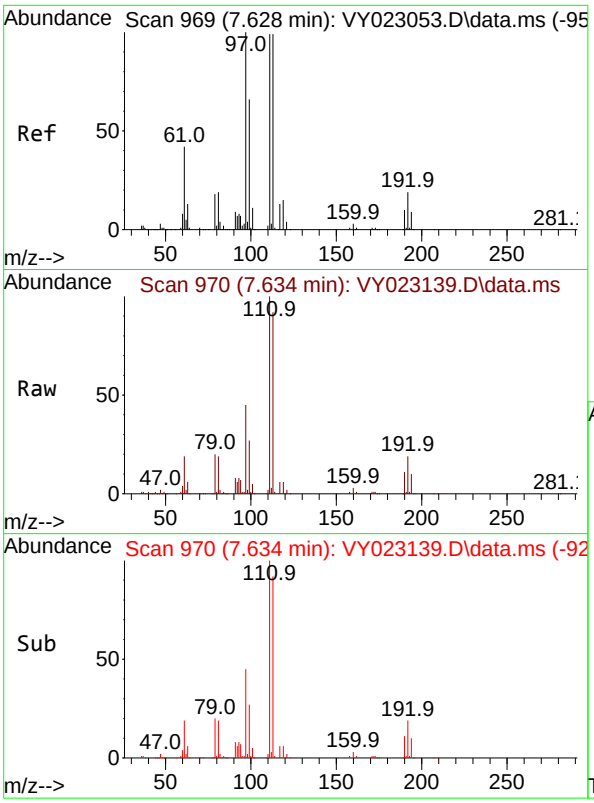


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



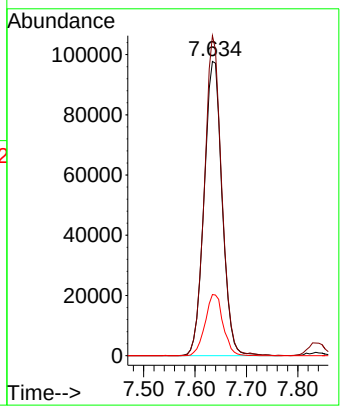


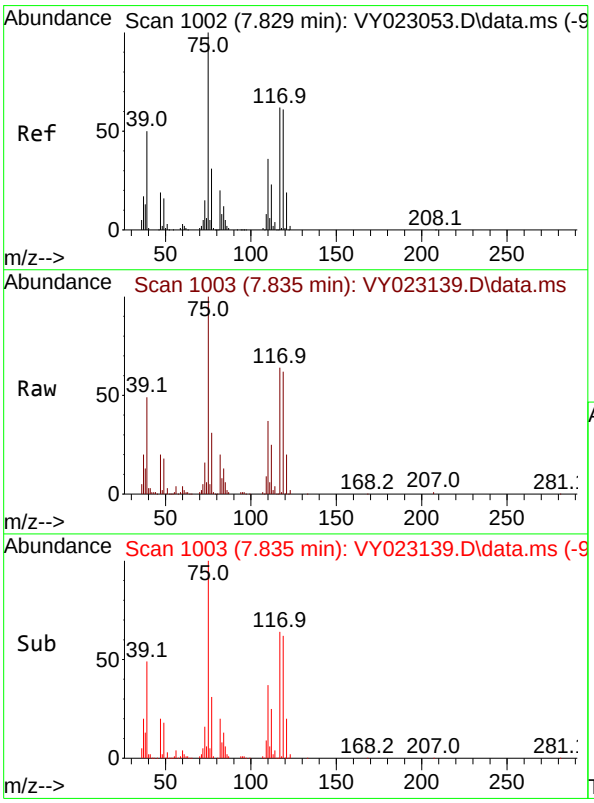
#35
Dibromofluoromethane
Concen: 48.567 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

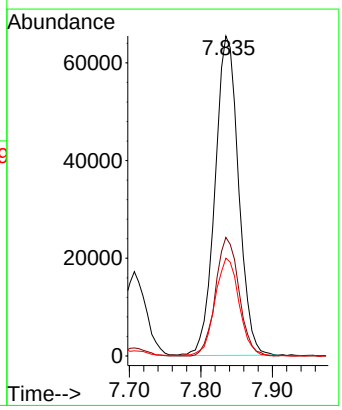


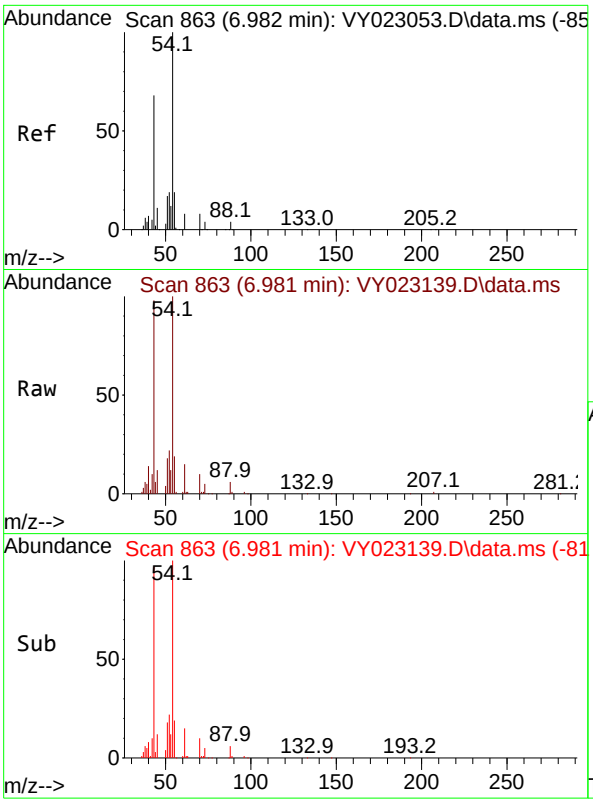


#36
1,1-Dichloropropene
Concen: 20.606 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



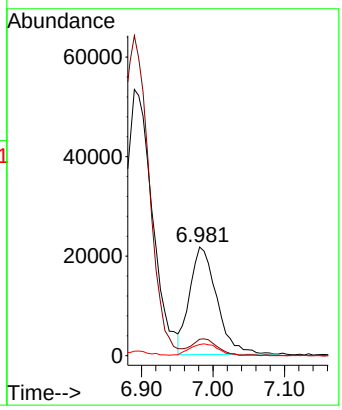


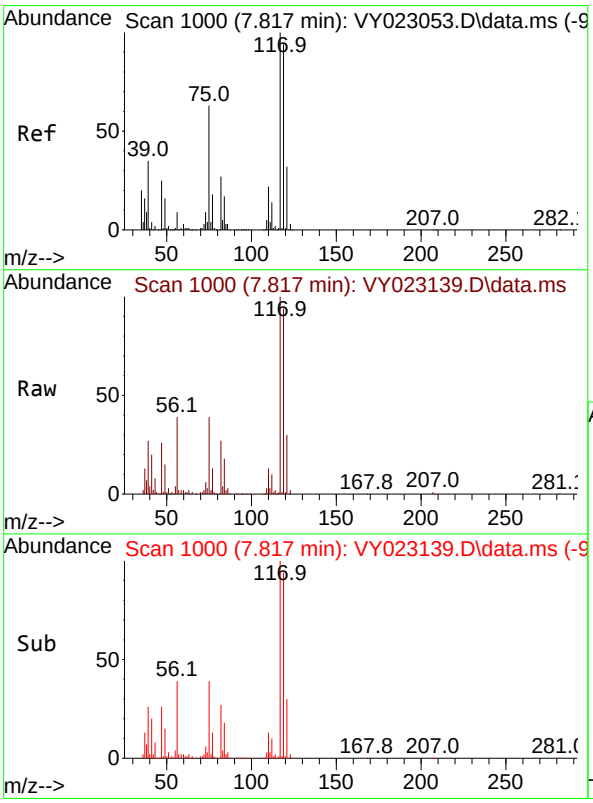
#37
Ethyl Acetate
Concen: 18.660 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

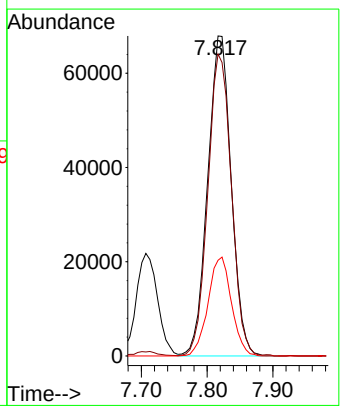


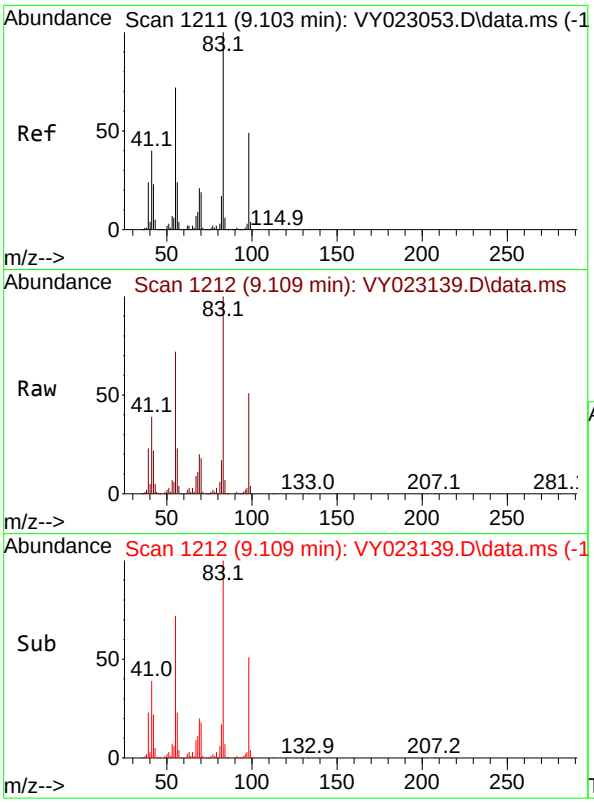


#38
Carbon Tetrachloride
Concen: 21.430 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



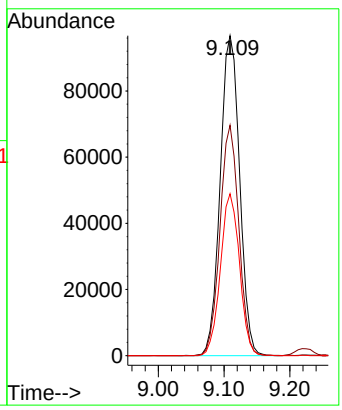


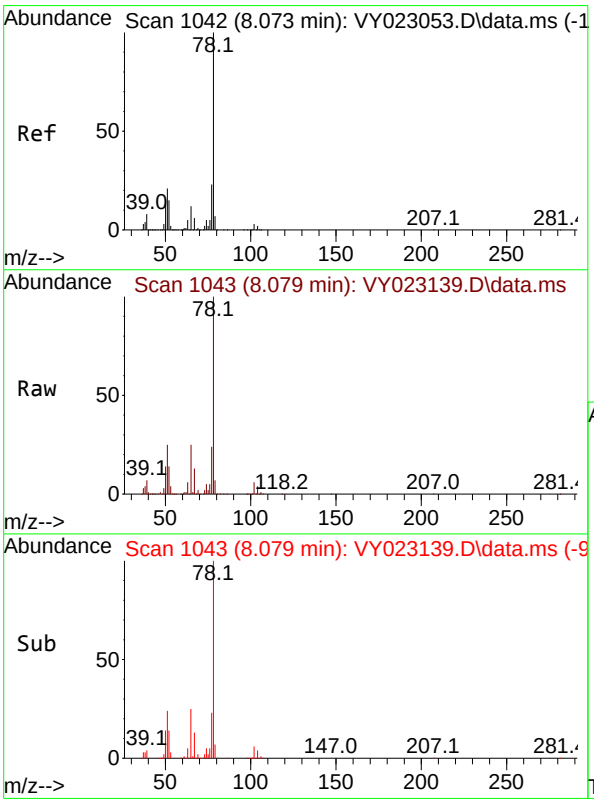
#39
Methylcyclohexane
Concen: 20.803 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

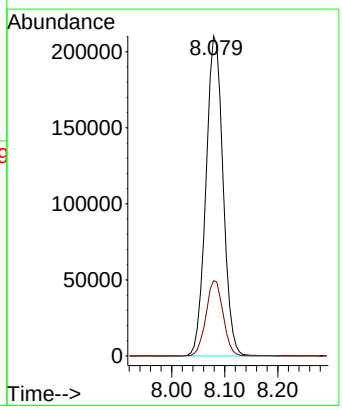


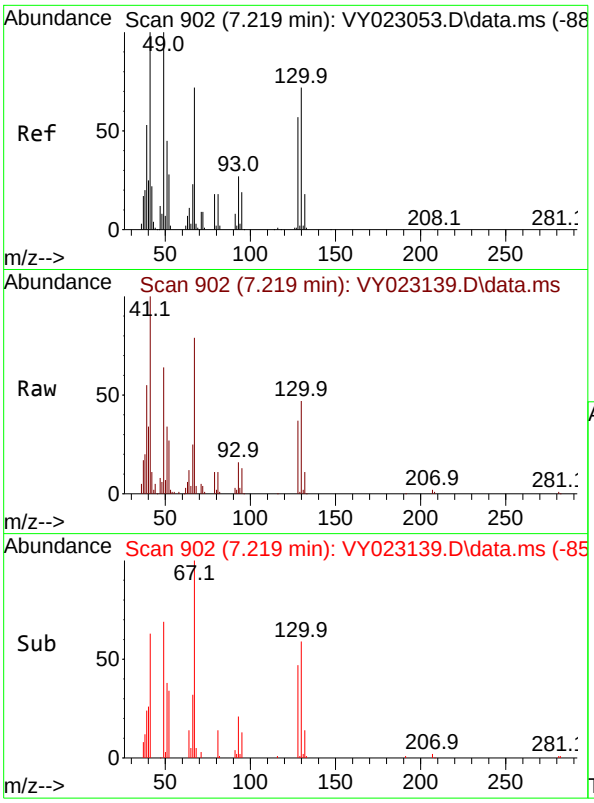


#40
Benzene
Concen: 21.055 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 78 Resp: 471421

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.6	28.0



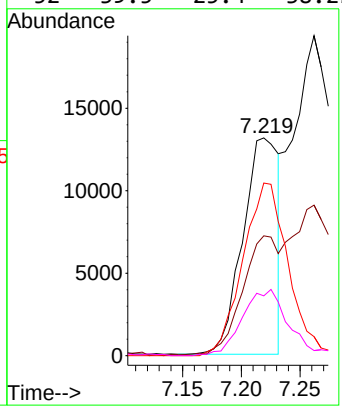


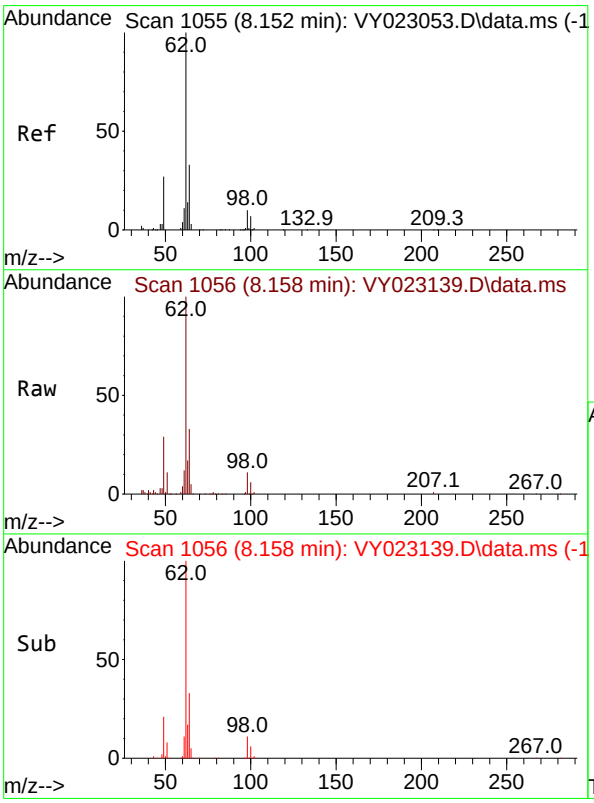
#41
Methacrylonitrile
Concen: 15.786 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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#

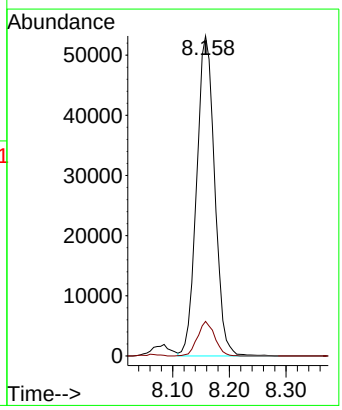


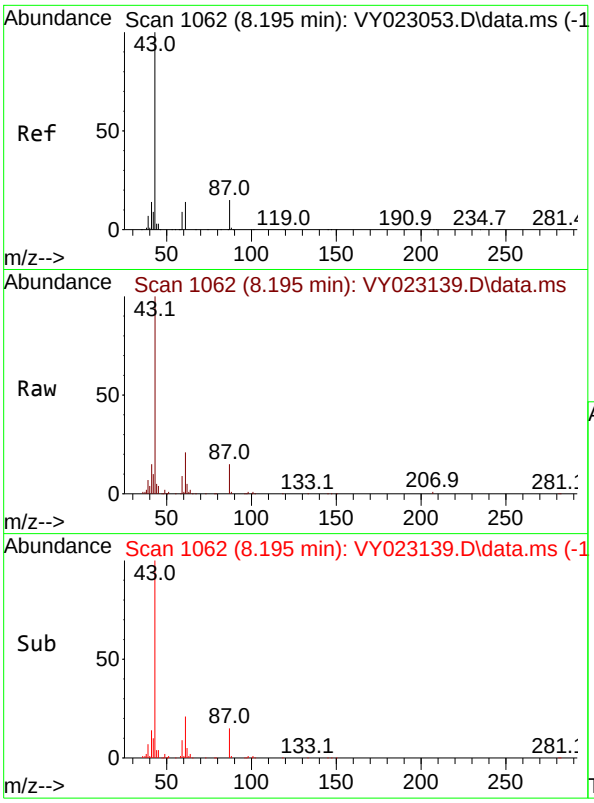


#42
1,2-Dichloroethane
Concen: 20.187 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 117552

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	20.6



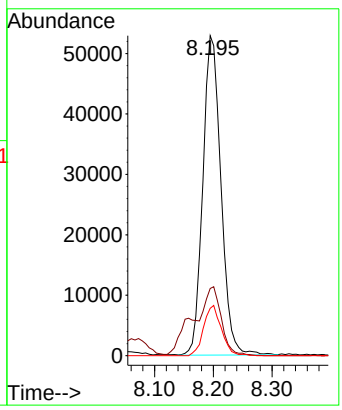


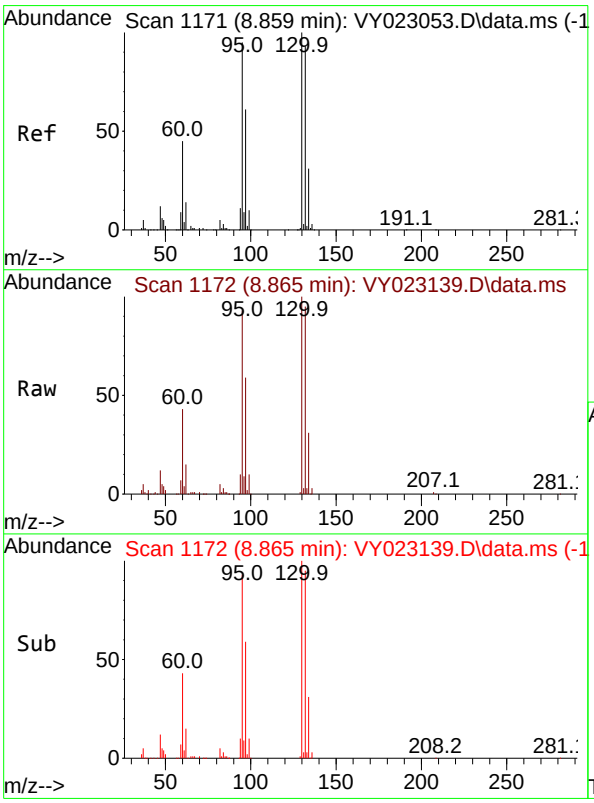
#43
Isopropyl Acetate
Concen: 18.431 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

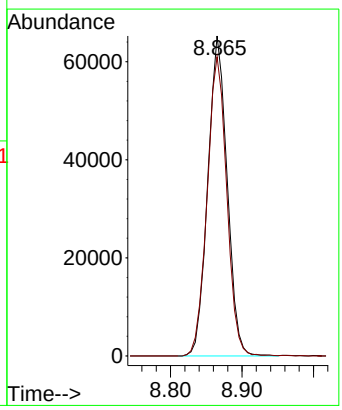


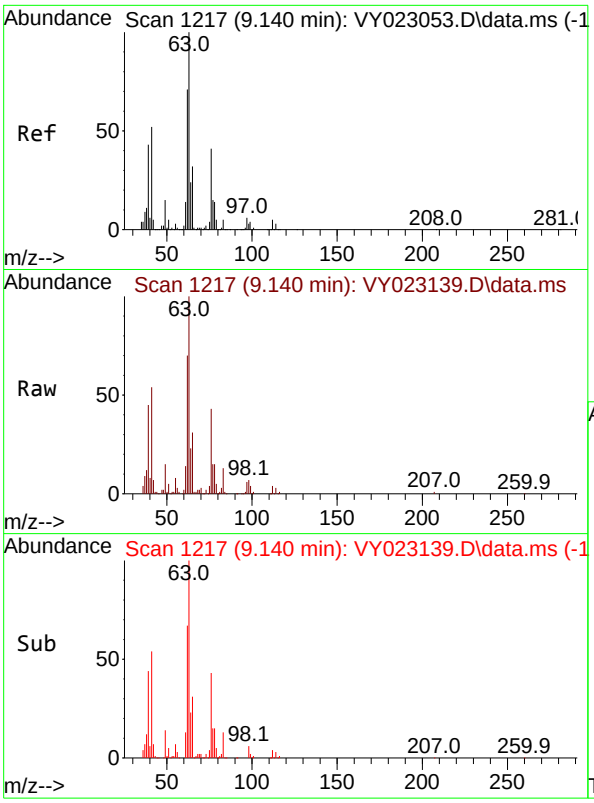


#44
Trichloroethene
Concen: 21.187 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:130 Resp: 122590

Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	190.2



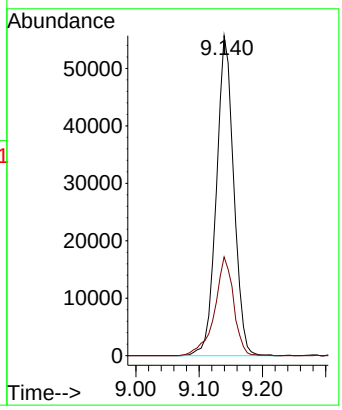


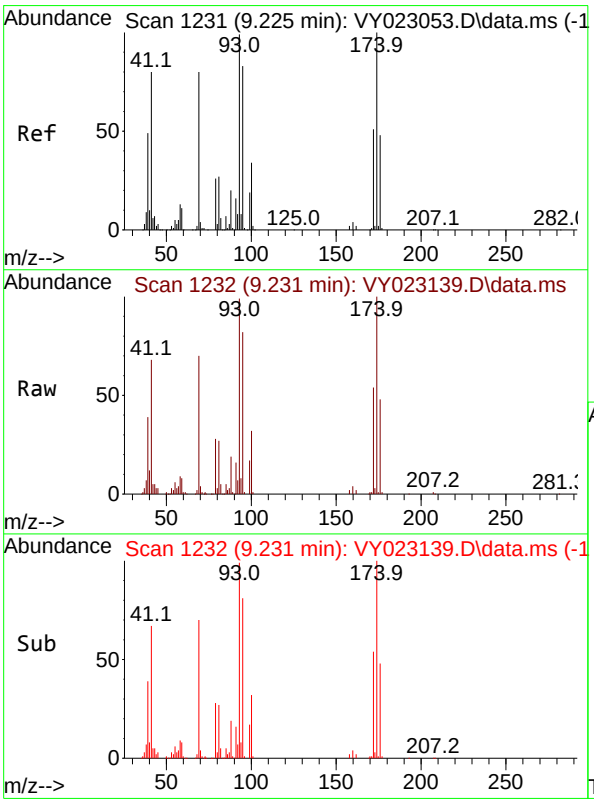
#45
1,2-Dichloropropane
Concen: 20.506 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 63 Resp: 105641

Ion	Ratio	Lower	Upper
63	100		
65	30.9	25.3	37.9

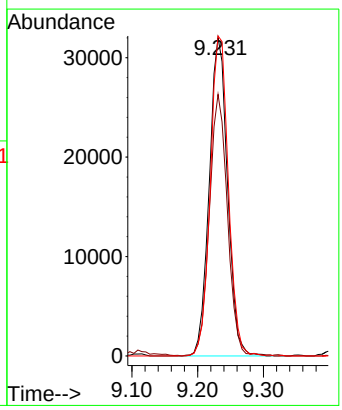


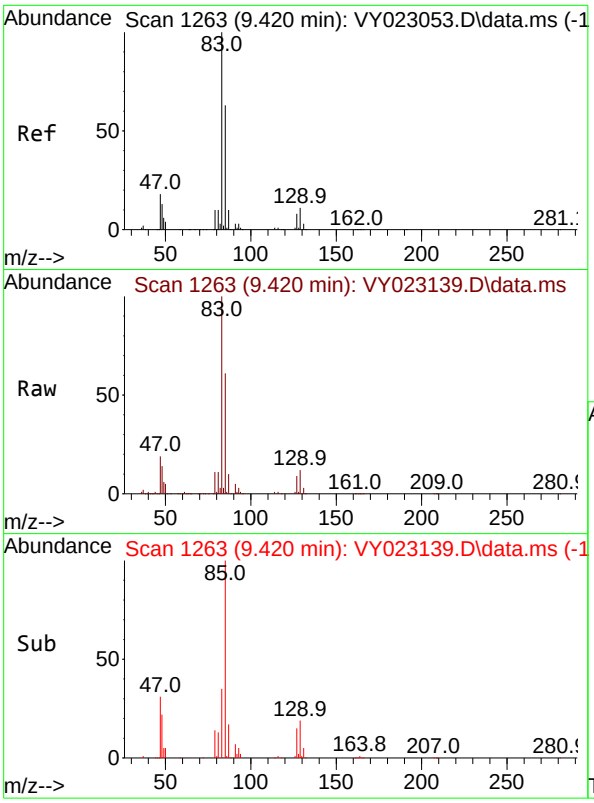


#46
Dibromomethane
Concen: 20.972 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



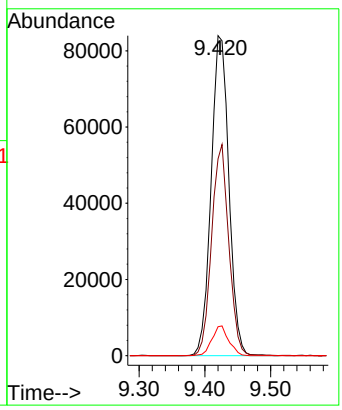


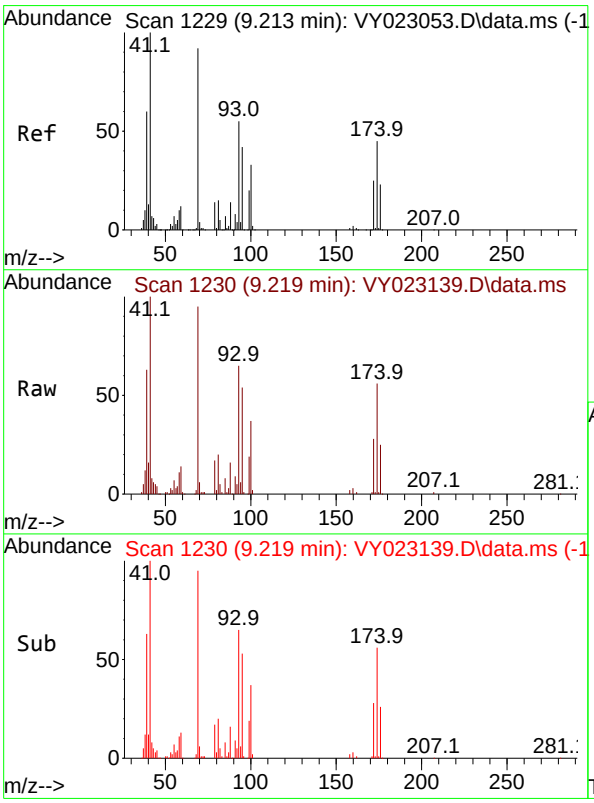
#47
Bromodichloromethane
Concen: 20.725 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

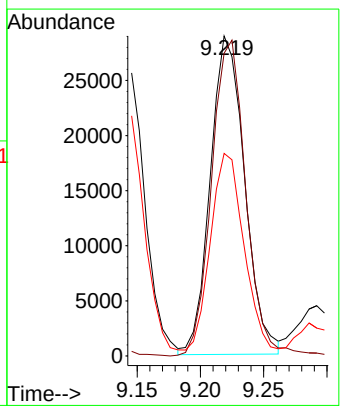


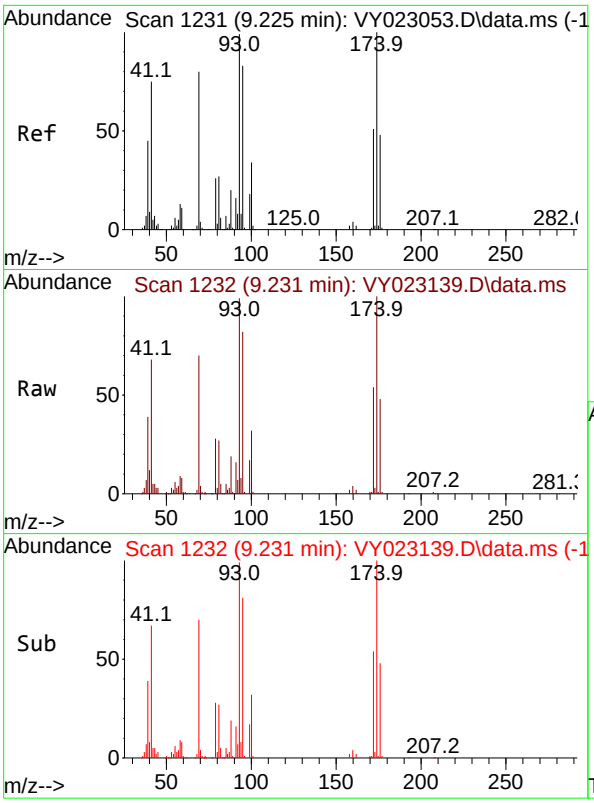


#48
Methyl methacrylate
Concen: 18.499 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



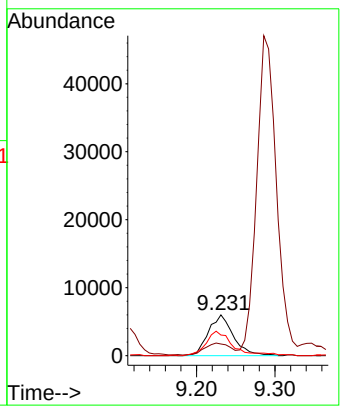


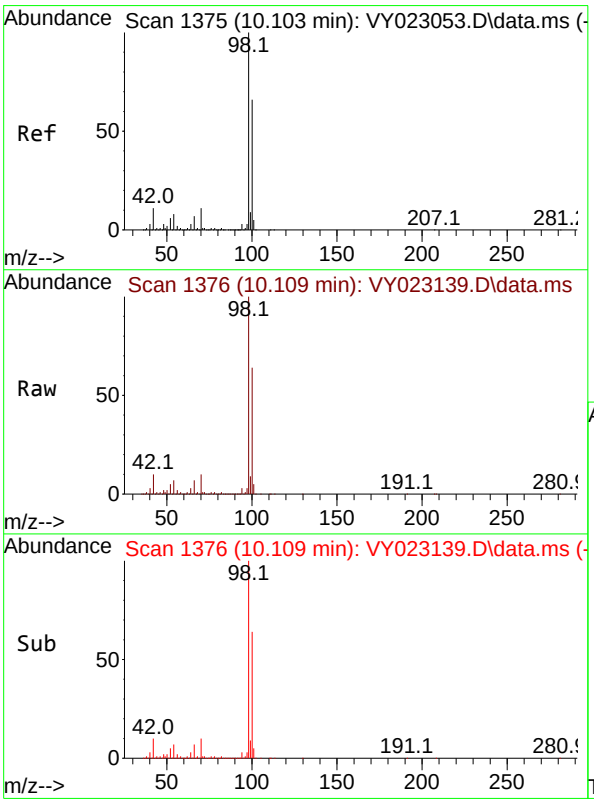
#49
1,4-Dioxane
Concen: 383.459 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

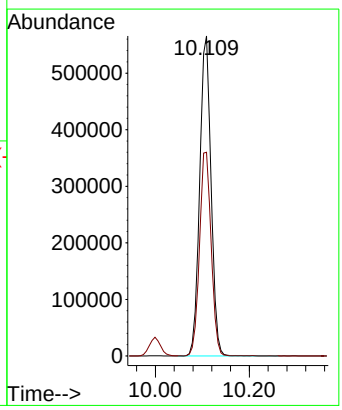


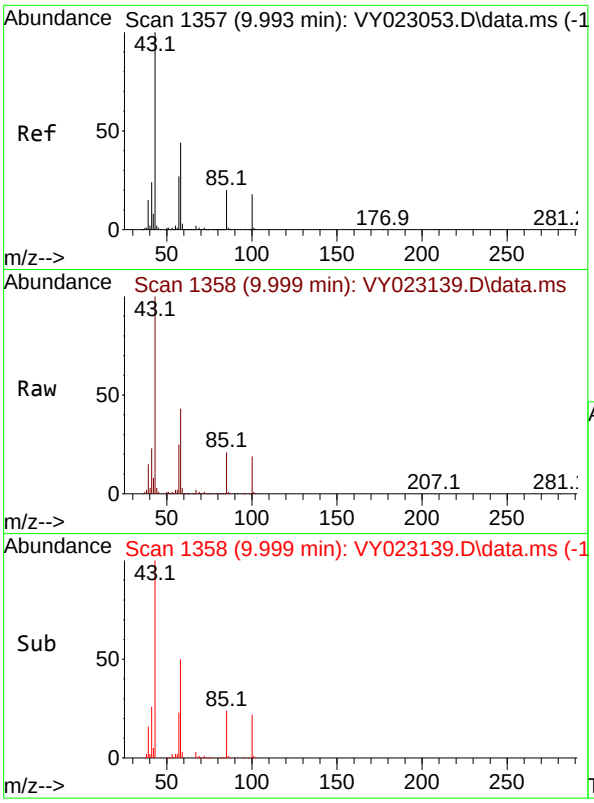


#50
Toluene-d8
Concen: 49.608 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 98 Resp: 947313

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.3	78.5



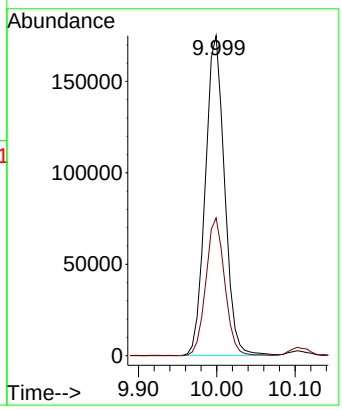


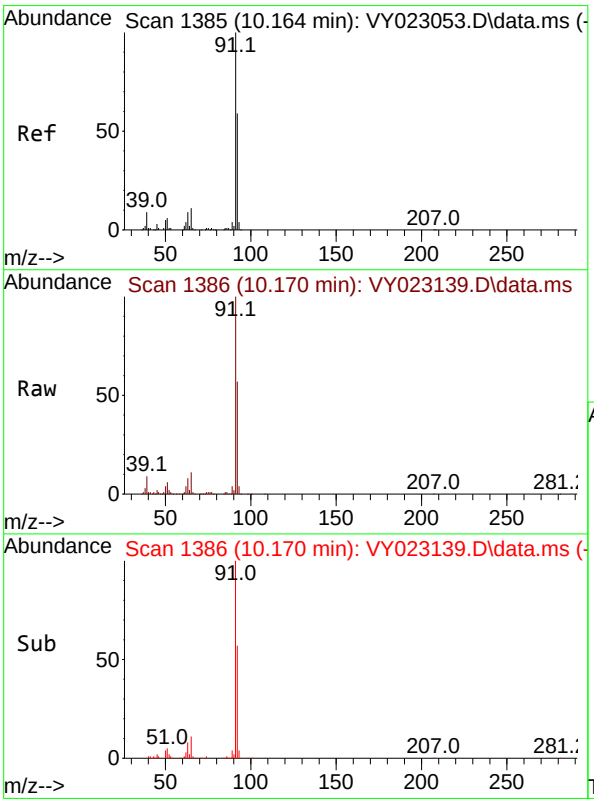
#51
4-Methyl-2-Pentanone
Concen: 93.721 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 298177

Ion	Ratio	Lower	Upper
43	100		
58	42.3	33.5	50.3

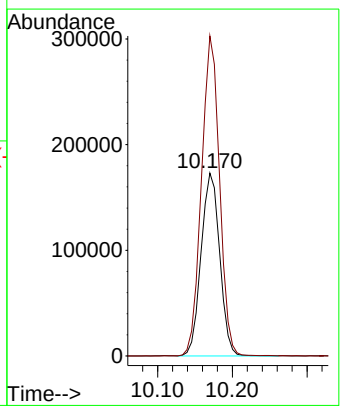


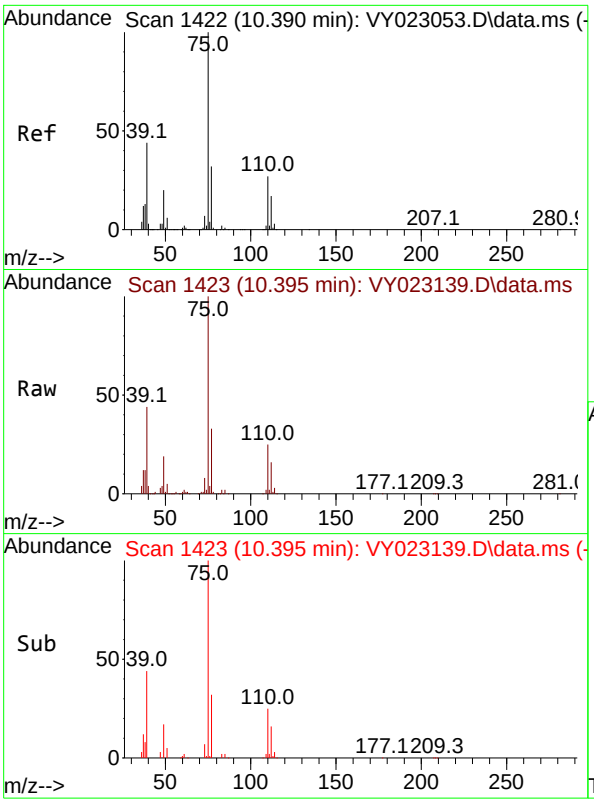


#52
Toluene
Concen: 21.028 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 92 Resp: 299030

Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.4	204.6



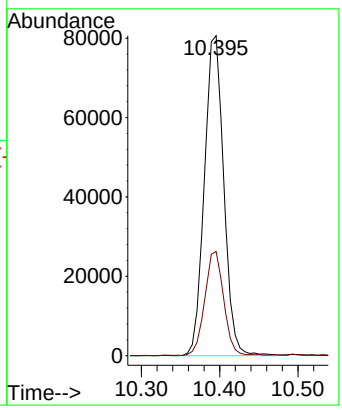


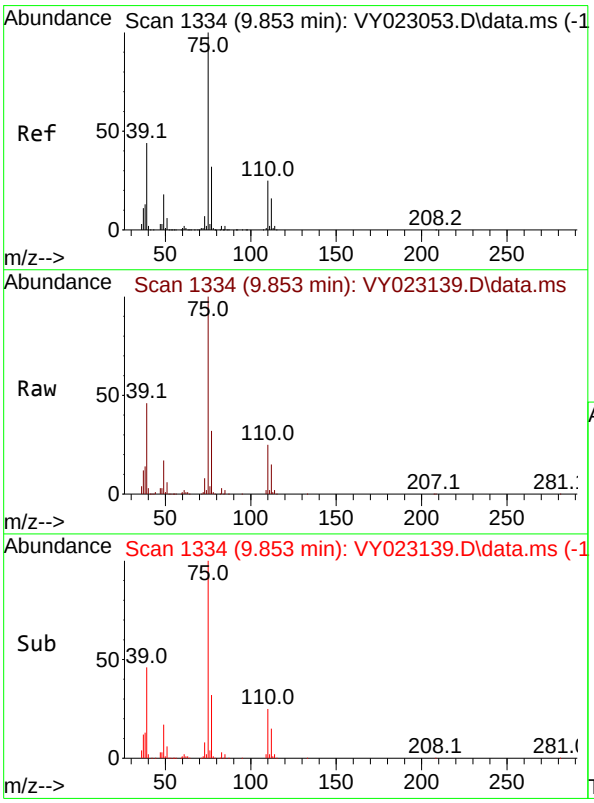
#53
t-1,3-Dichloropropene
Concen: 20.144 ug/l
RT: 10.395 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 75 Resp: 138793

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.7	38.5

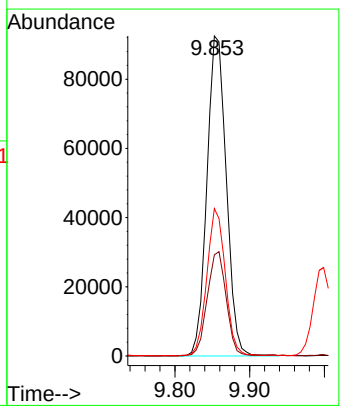


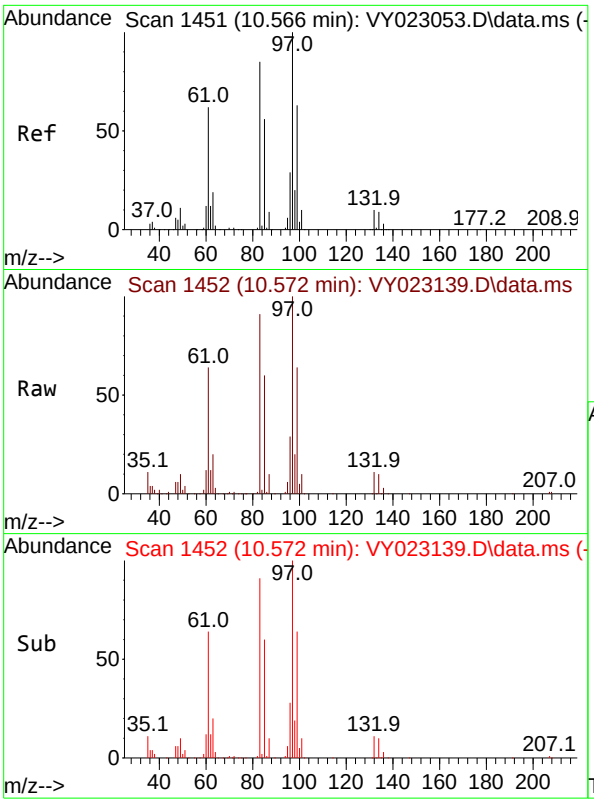


#54
cis-1,3-Dichloropropene
Concen: 20.453 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



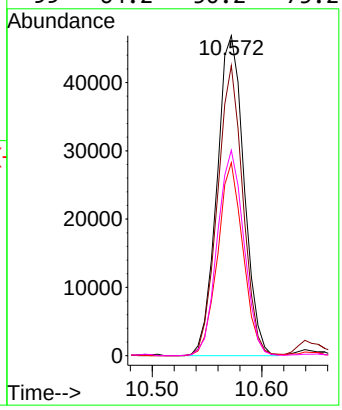


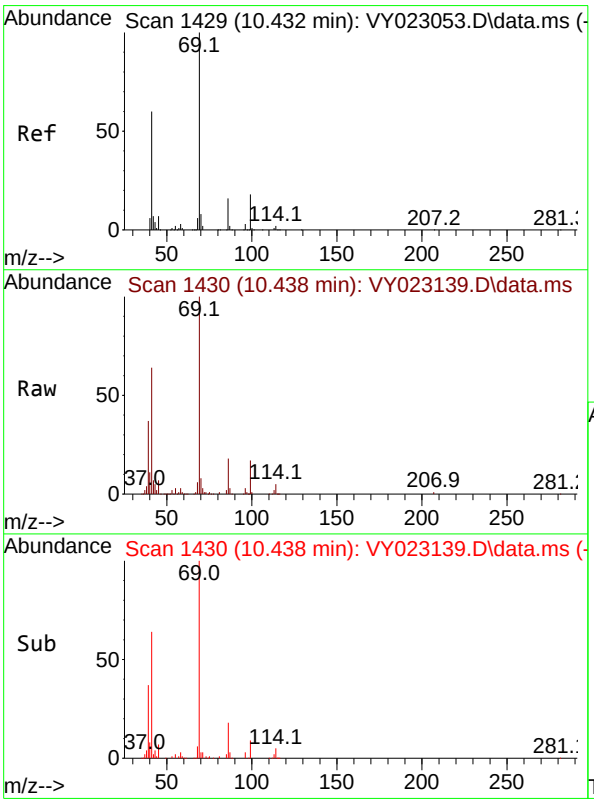
#55
1,1,2-Trichloroethane
Concen: 20.350 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

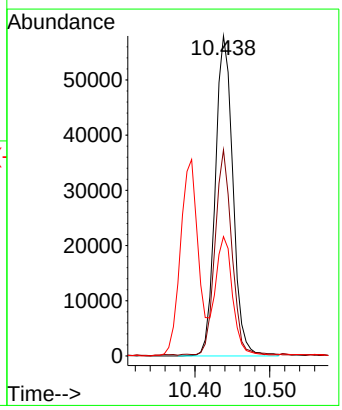


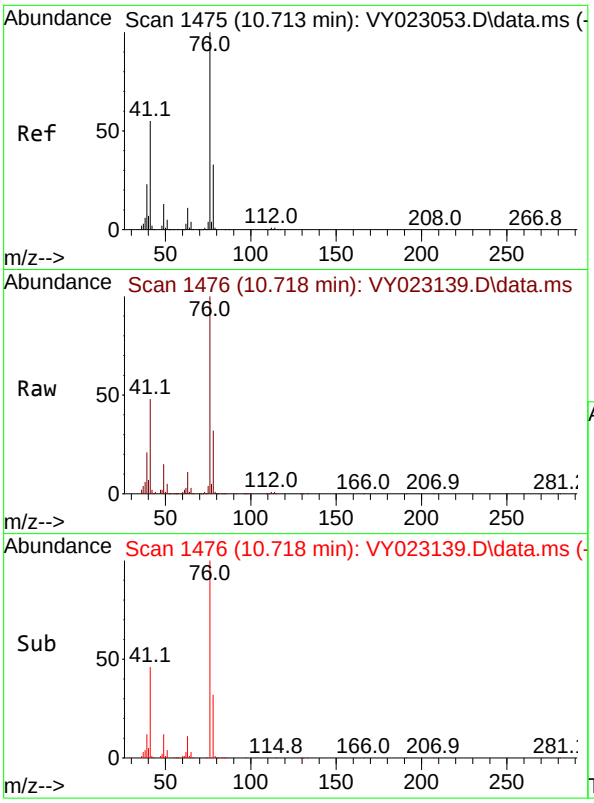


#56
Ethyl methacrylate
Concen: 18.741 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



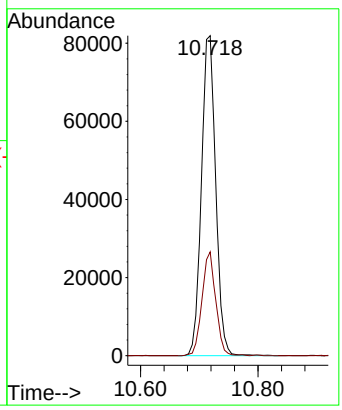


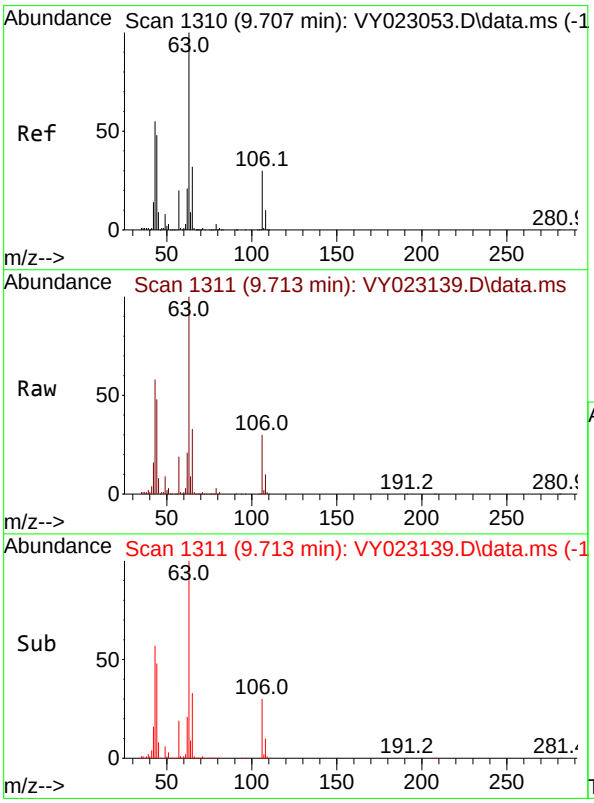
#57
1,3-Dichloropropane
Concen: 20.594 ug/l
RT: 10.718 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 76 Resp: 138195

Ion	Ratio	Lower	Upper
76	100		
78	31.3	26.0	39.0

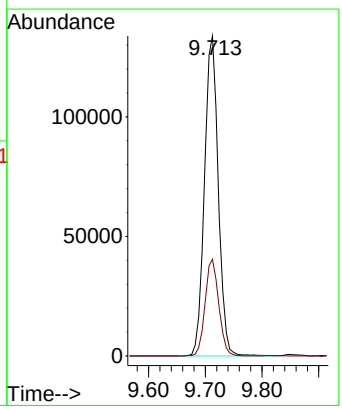


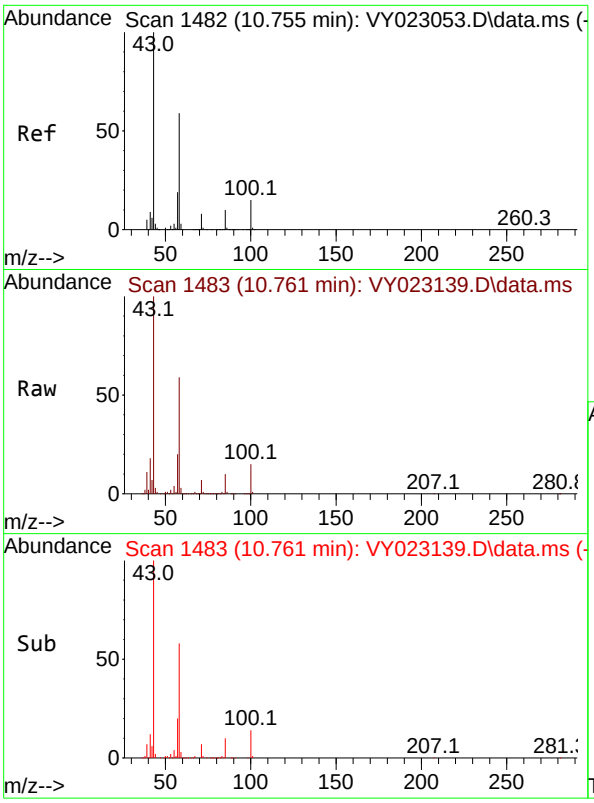


#58
2-Chloroethyl Vinyl ether
Concen: 94.672 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 226098

Ion	Ratio	Lower	Upper
63	100		
106	29.8	23.2	34.8



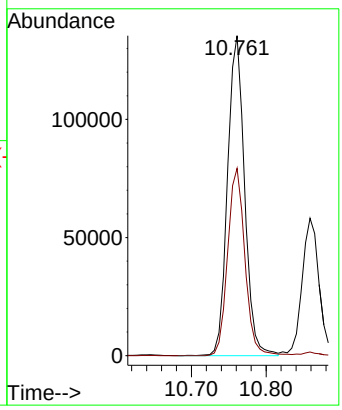


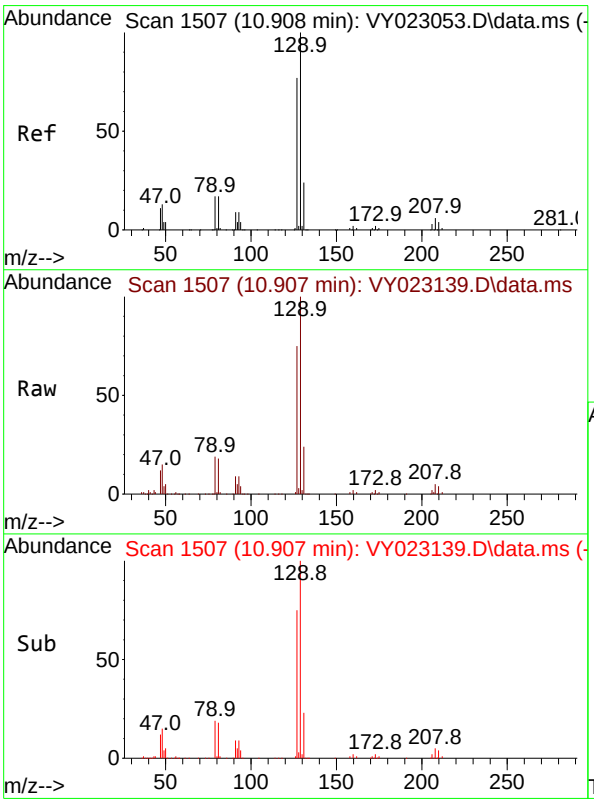
#59
2-Hexanone
Concen: 99.034 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 43 Resp: 214547

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

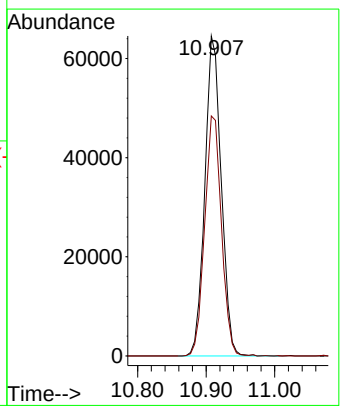


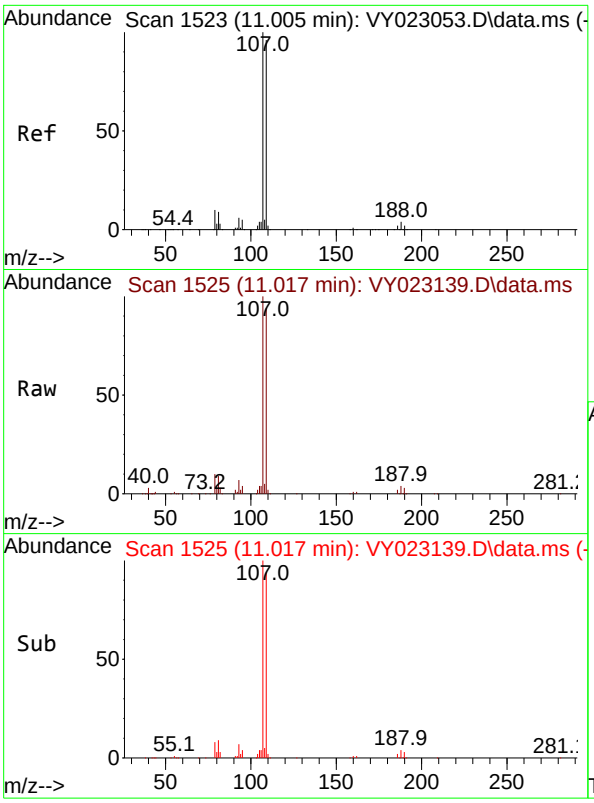


#60
Dibromochloromethane
Concen: 20.554 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:129 Resp: 107311

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.5	115.5



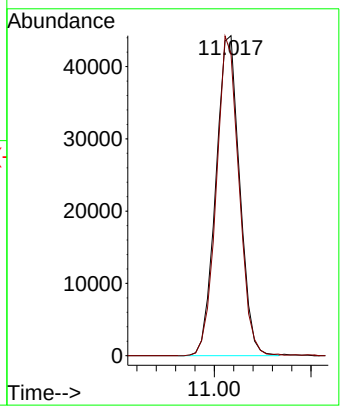


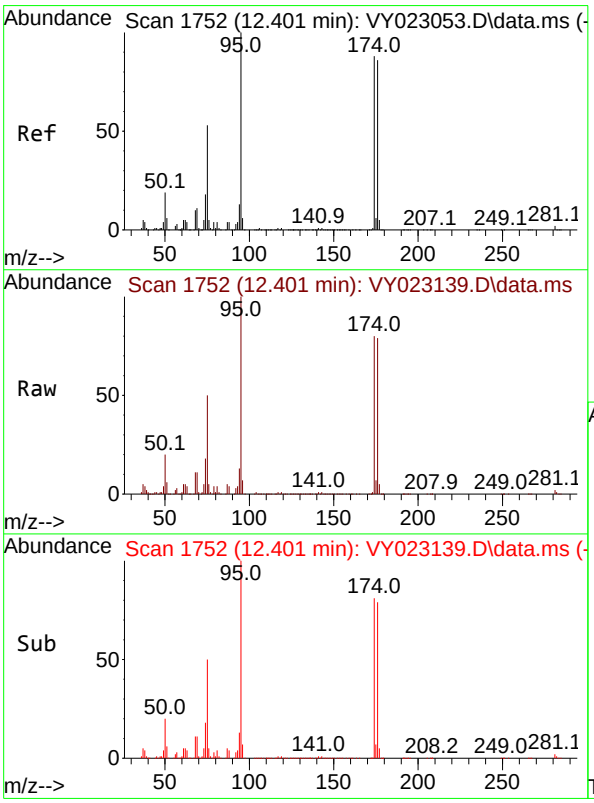
#61
1,2-Dibromoethane
Concen: 20.280 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:107 Resp: 75418

Ion	Ratio	Lower	Upper
107	100		
109	94.9	75.6	113.4

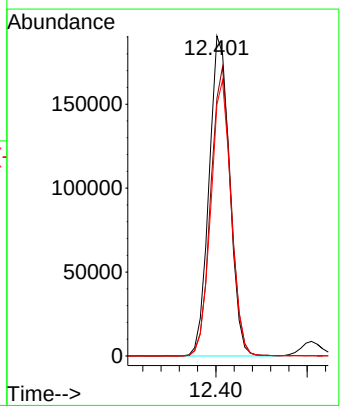


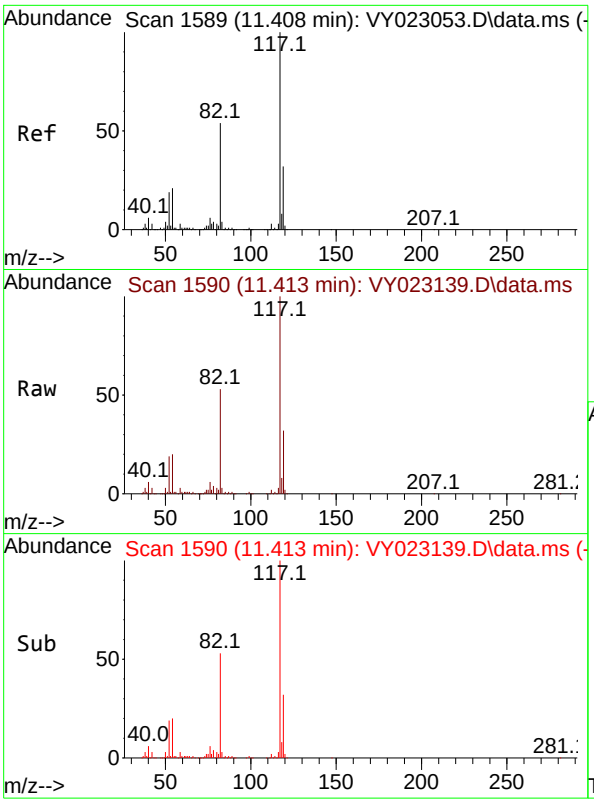


#62
4-Bromofluorobenzene
Concen: 48.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



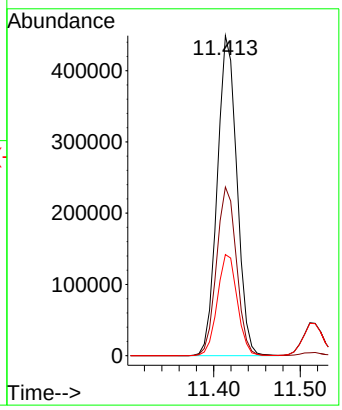


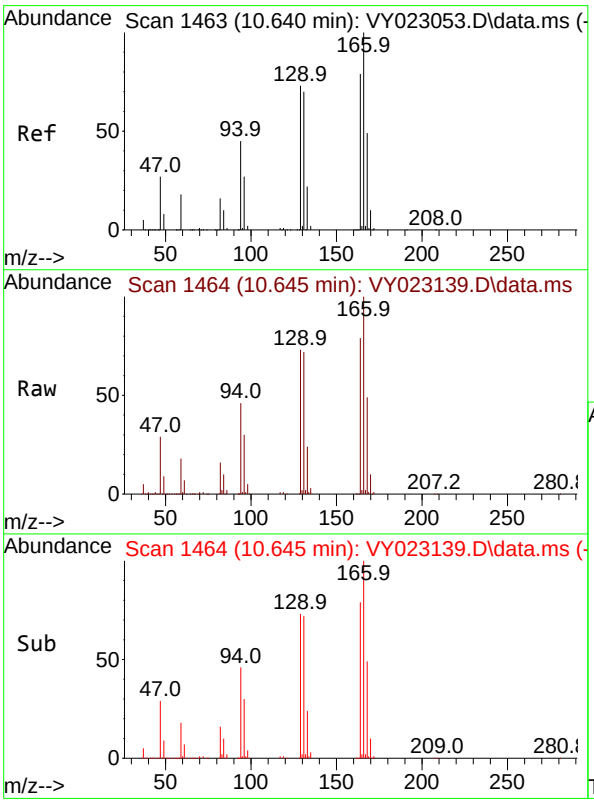
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

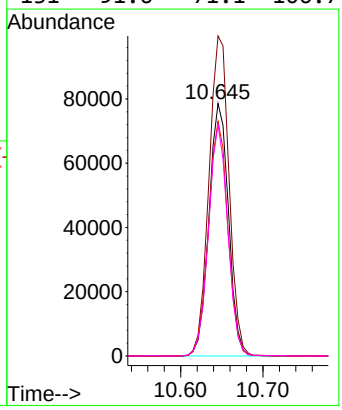


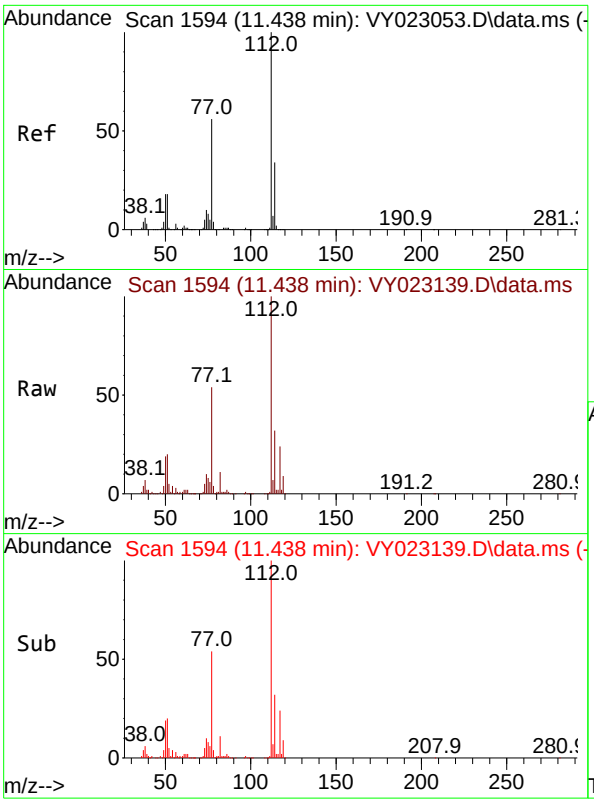


#64
Tetrachloroethene
Concen: 20.532 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



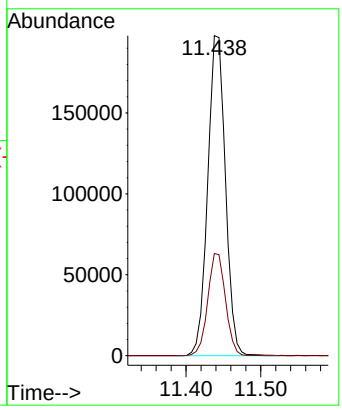


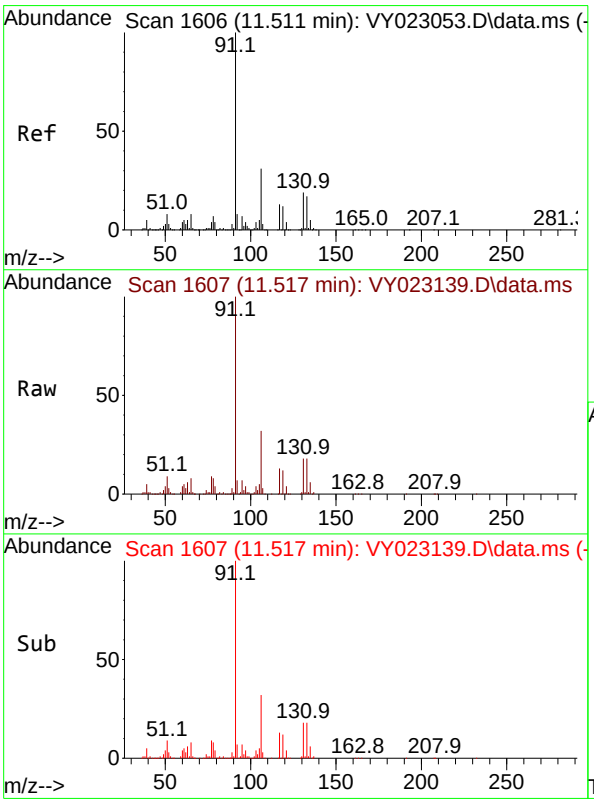
#65
Chlorobenzene
Concen: 21.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:112 Resp: 325629

Ion	Ratio	Lower	Upper
112	100		
114	31.9	27.0	40.4

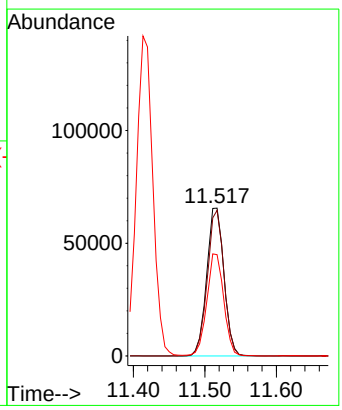


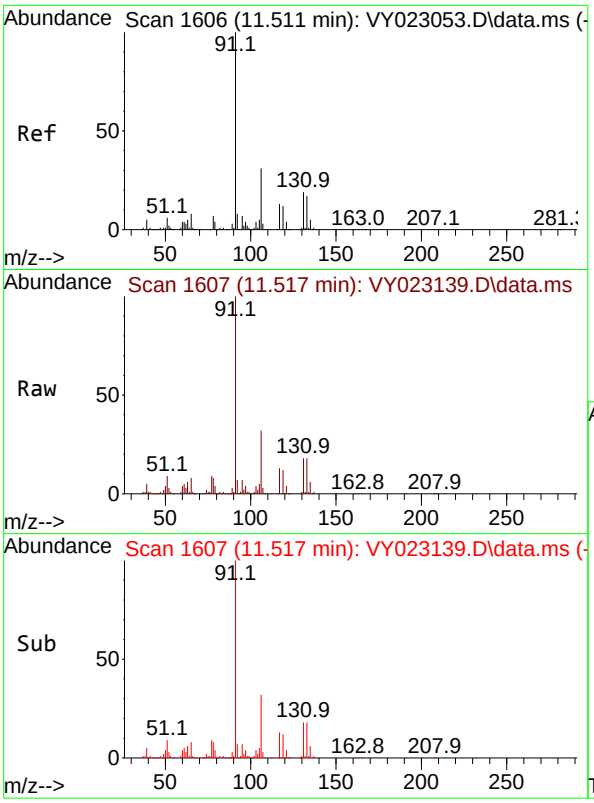


#66
1,1,1,2-Tetrachloroethane
Concen: 21.199 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



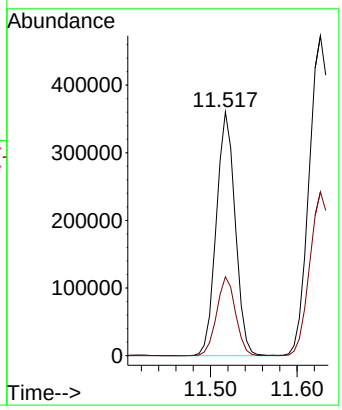


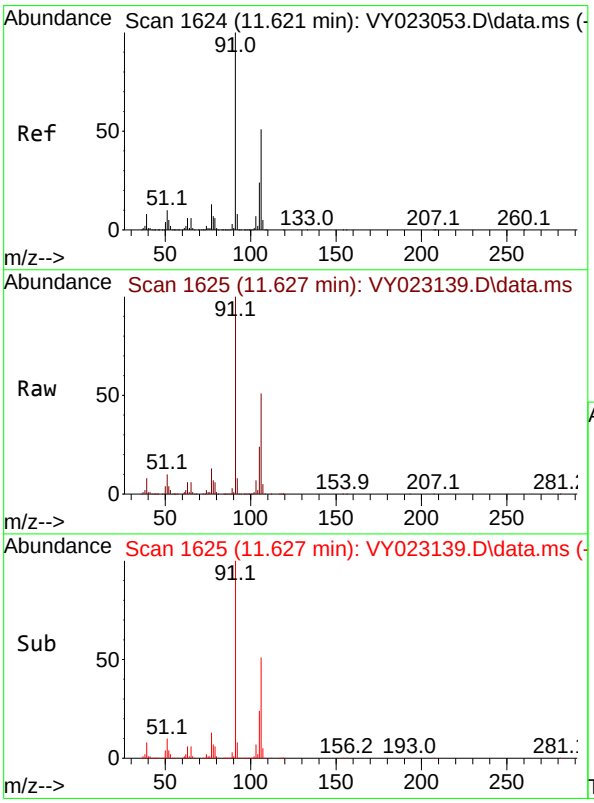
#67
Ethyl Benzene
Concen: 20.767 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 91 Resp: 545176

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.0	37.4

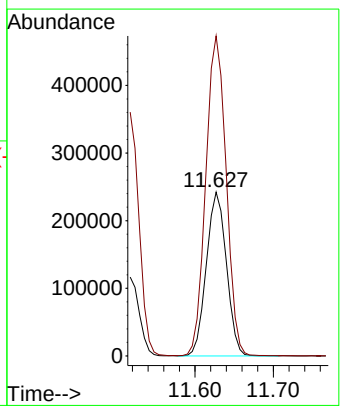


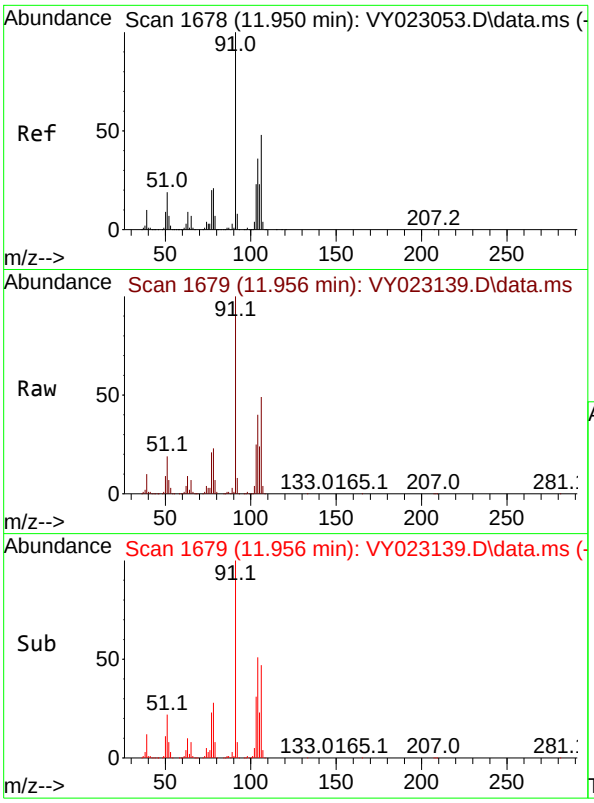


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 430120

Ion	Ratio	Lower	Upper
106	100		
91	198.8	158.6	238.0



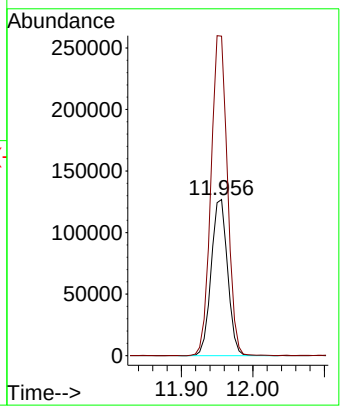


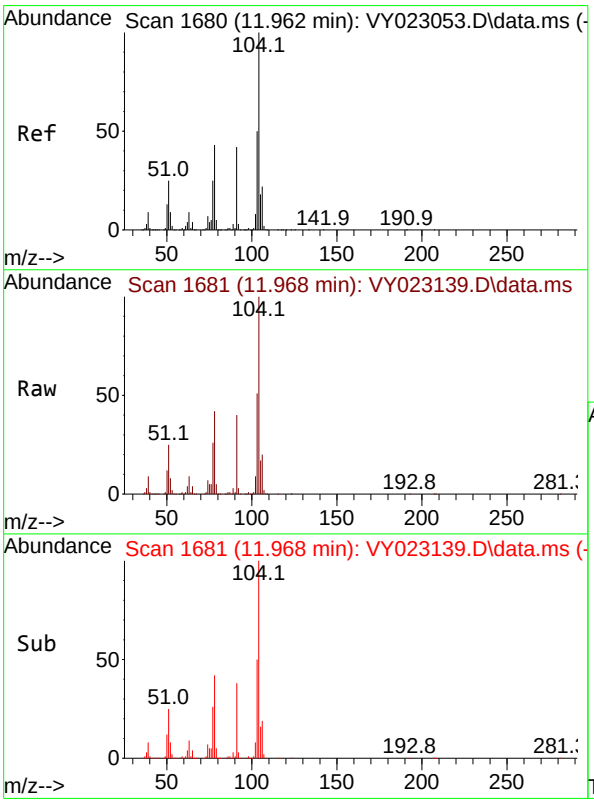
#69
o-Xylene
Concen: 21.020 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:106 Resp: 201847

Ion	Ratio	Lower	Upper
106	100		
91	206.0	103.2	309.4

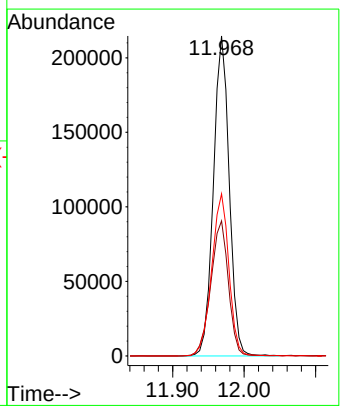


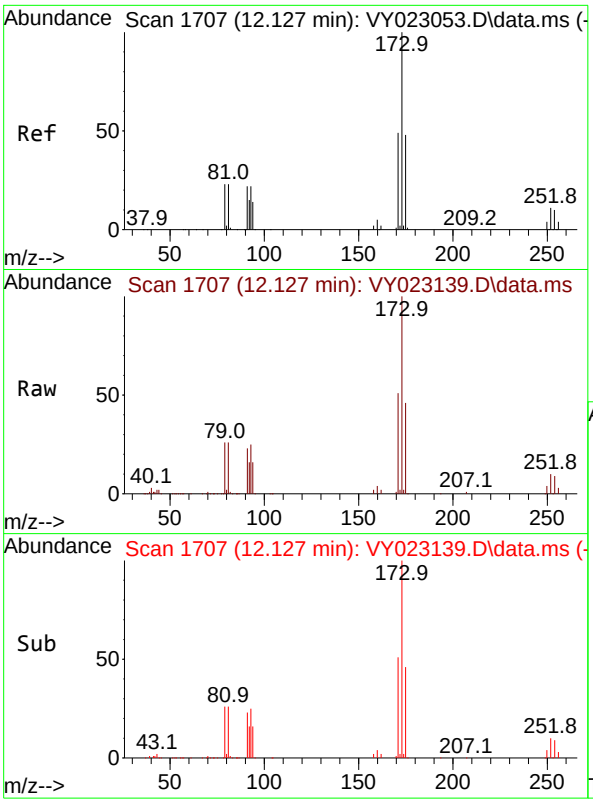


#70
Styrene
Concen: 21.028 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



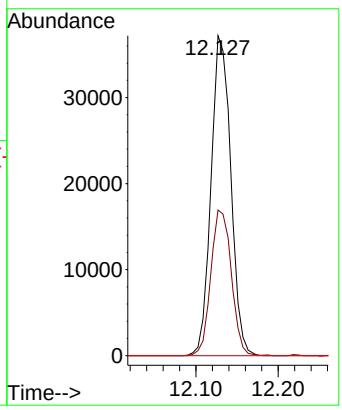


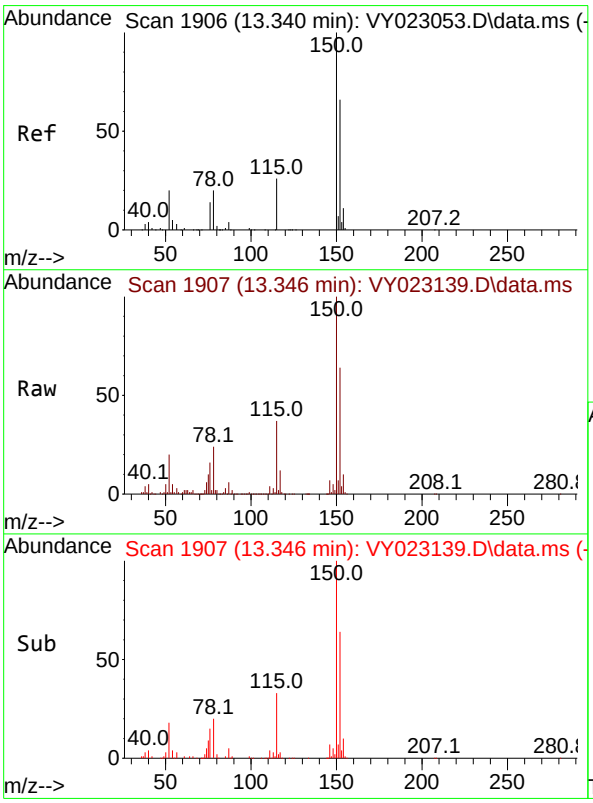
#71
Bromoform
Concen: 20.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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#

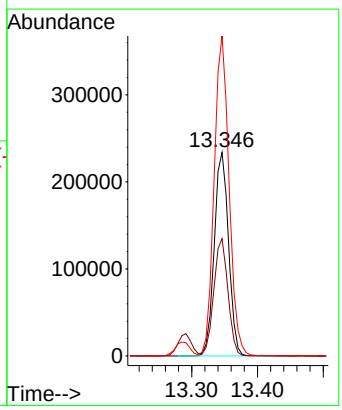


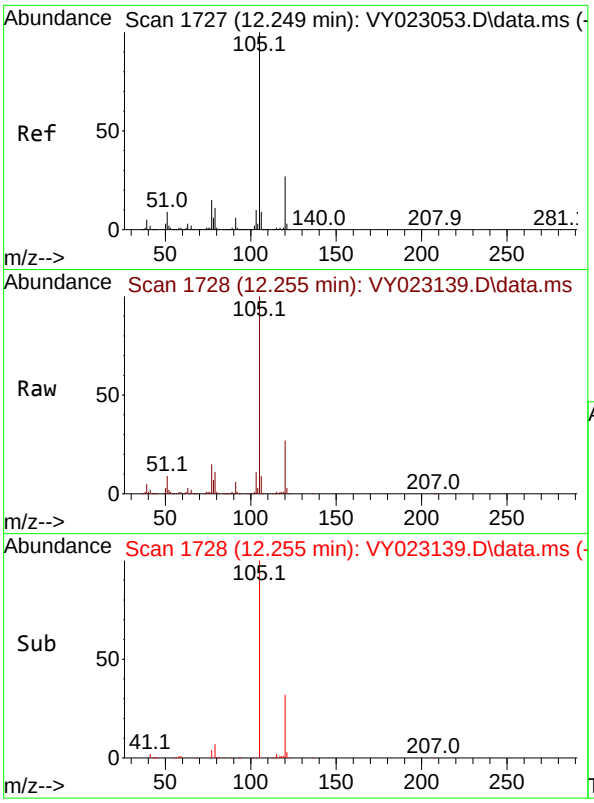


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



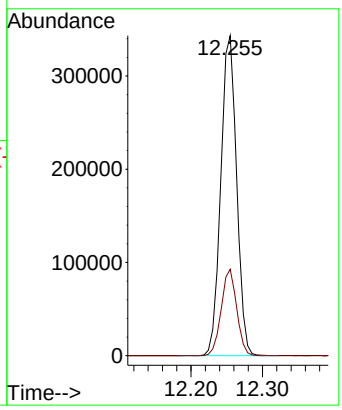


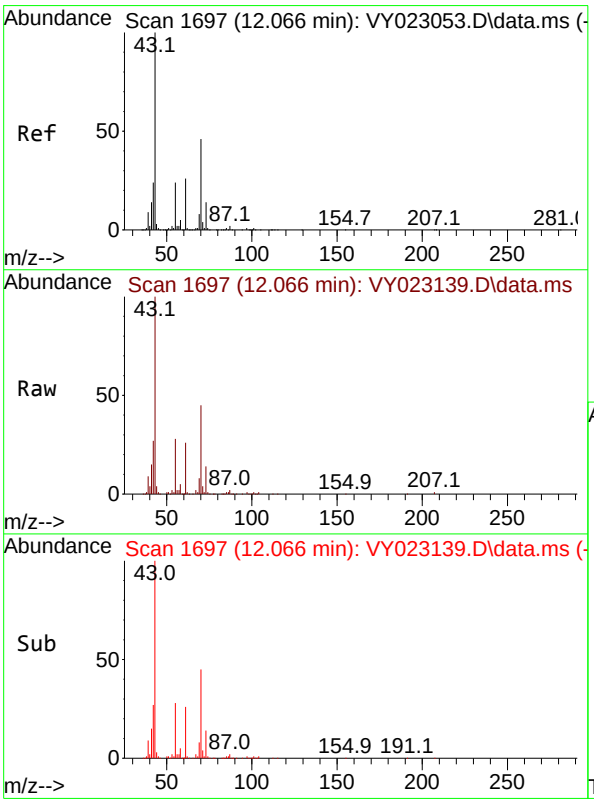
#73
Isopropylbenzene
Concen: 21.185 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:105 Resp: 527385

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.4	40.2

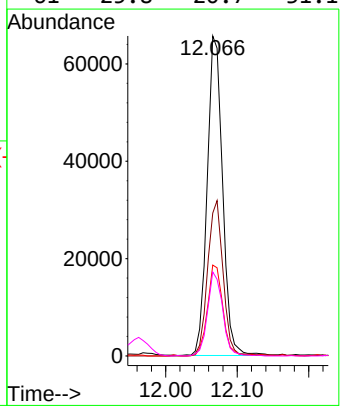


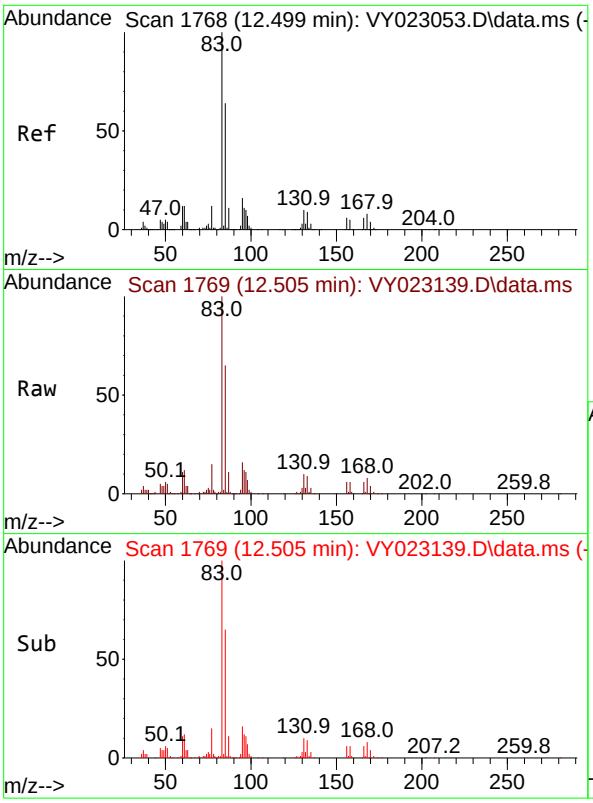


#74
N-amyl acetate
Concen: 18.632 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



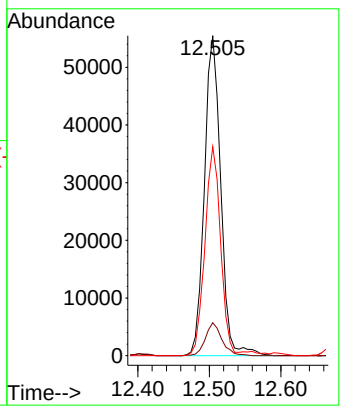


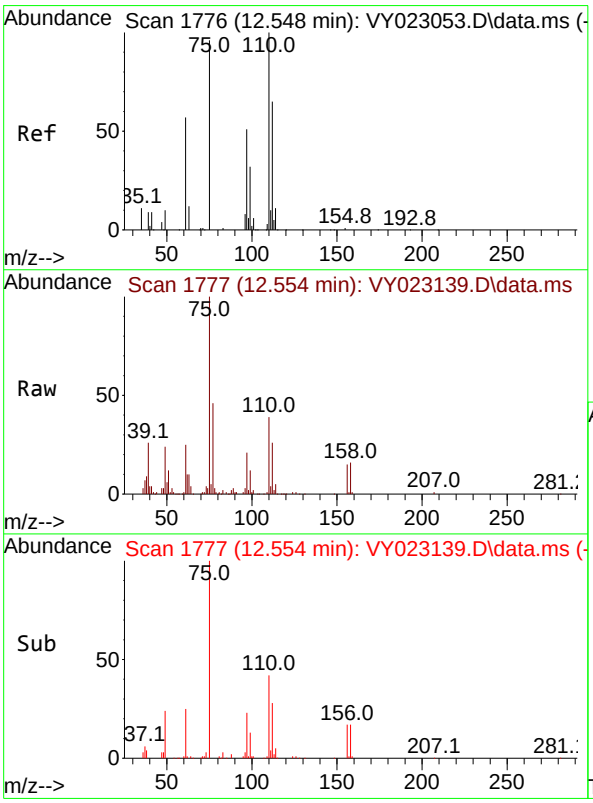
#75
1,1,2,2-Tetrachloroethane
Concen: 20.694 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

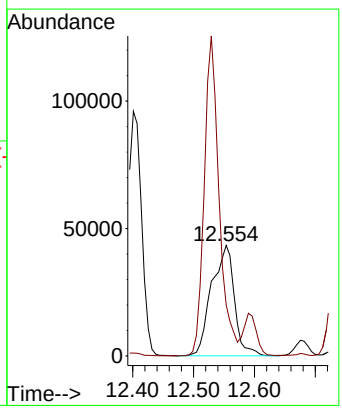


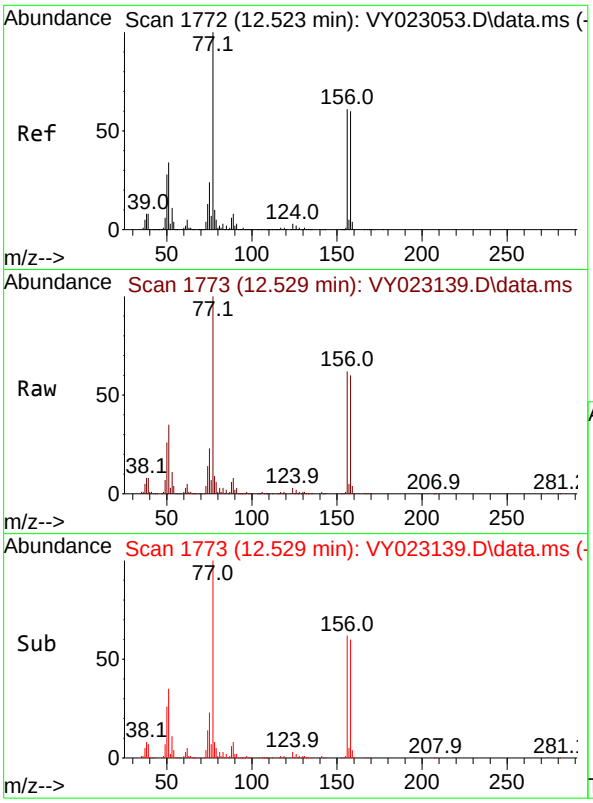


#76
1,2,3-Trichloropropane
Concen: 33.119 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 112742

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



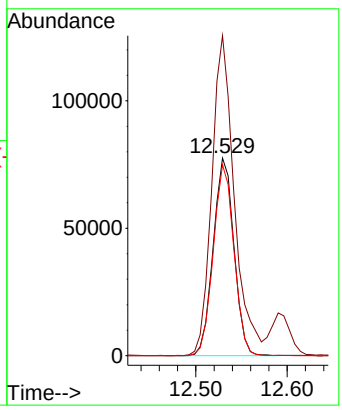


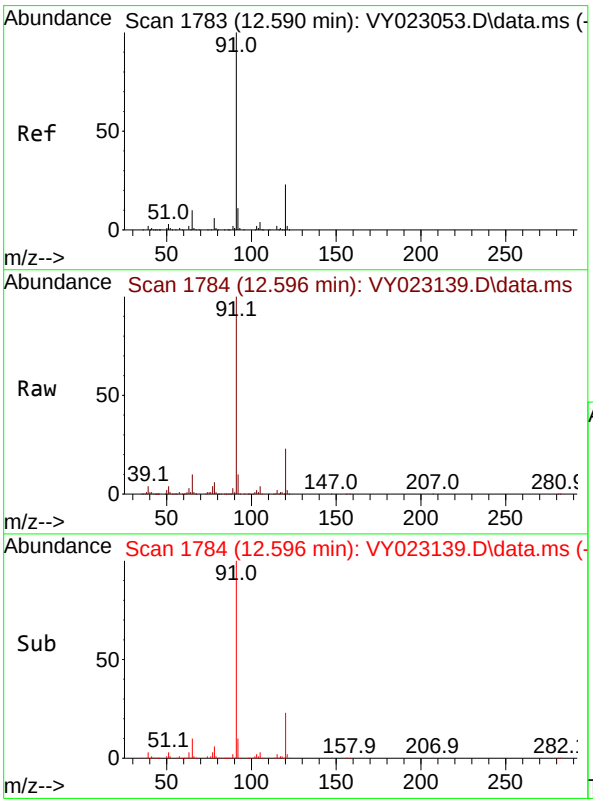
#77
Bromobenzene
Concen: 20.592 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

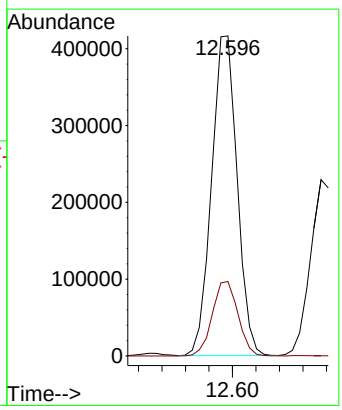


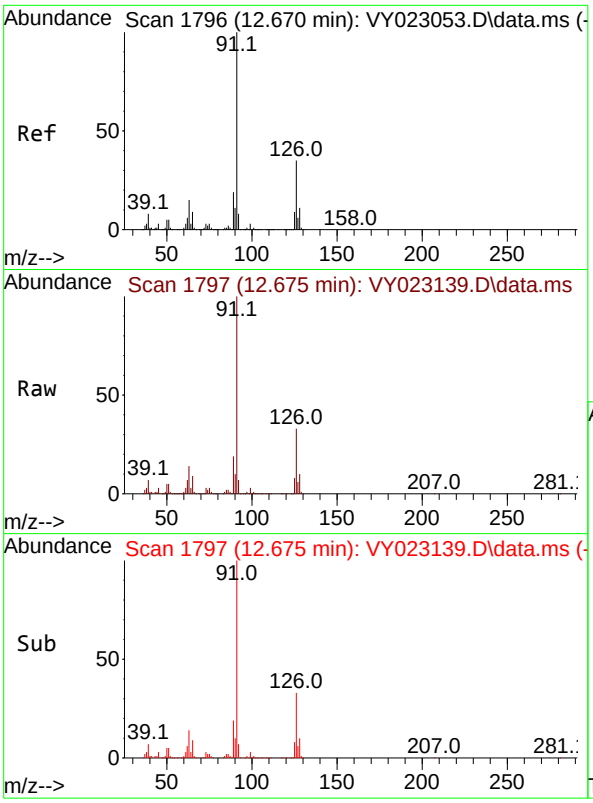


#78
n-propylbenzene
Concen: 21.255 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 629976

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.5	34.5



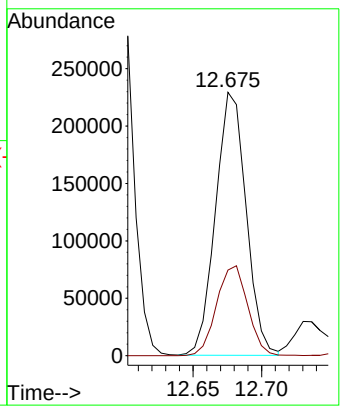


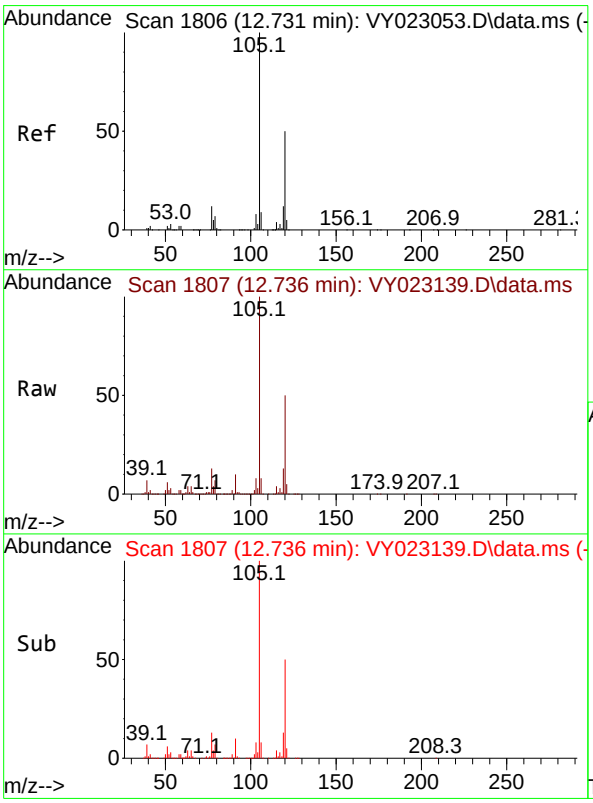
#79
2-Chlorotoluene
Concen: 20.990 ug/l
RT: 12.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion: 91 Resp: 356441

Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.4	52.3

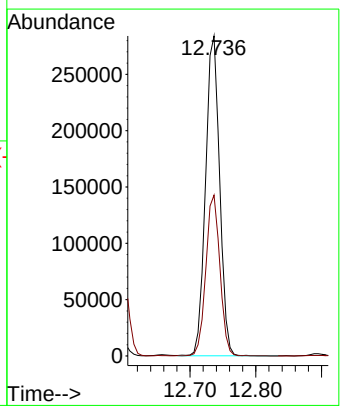


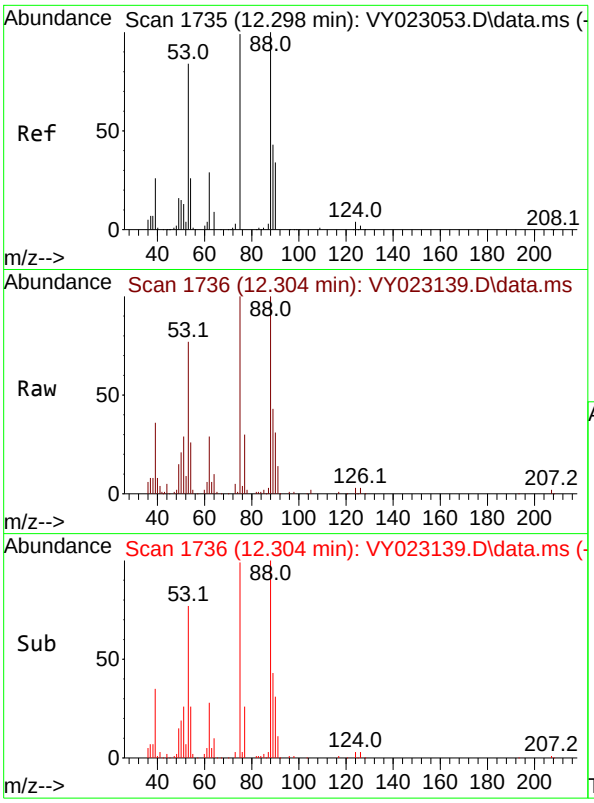


#80
1,3,5-Trimethylbenzene
Concen: 21.022 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 422945

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.8	74.4



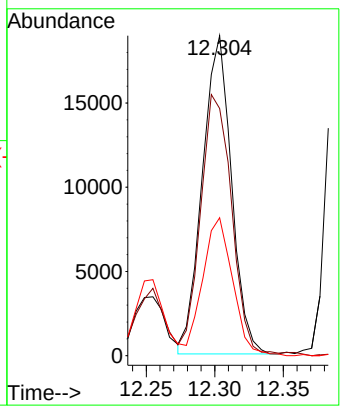


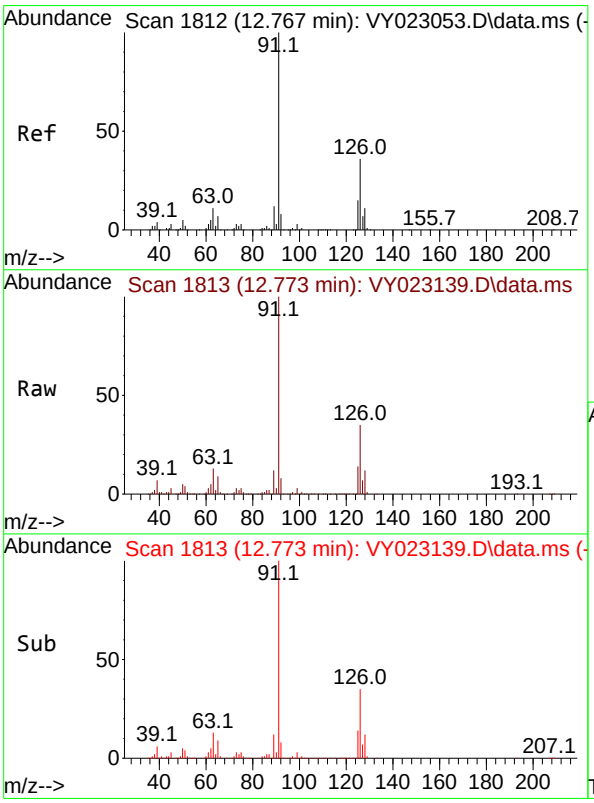
#81
trans-1,4-Dichloro-2-butene
Concen: 19.838 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

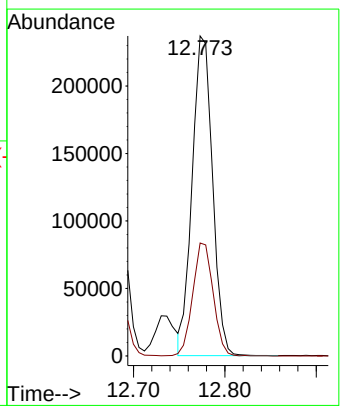


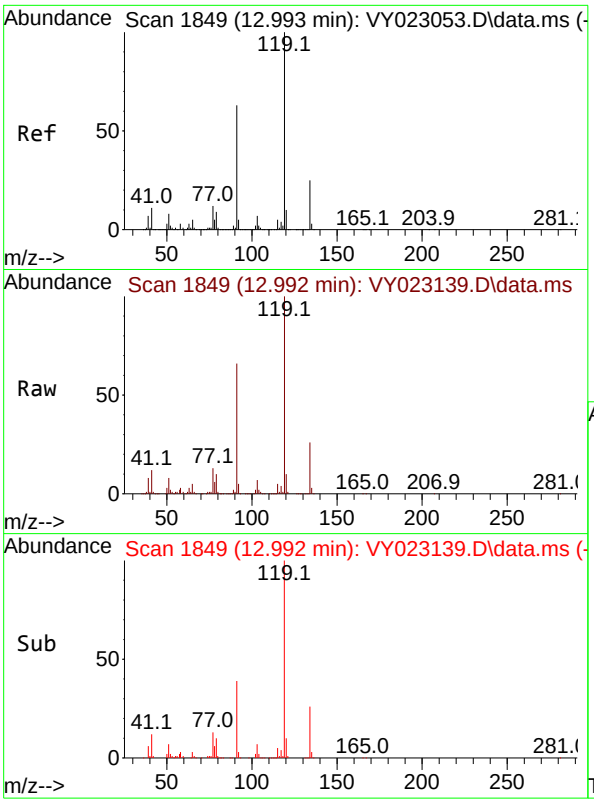


#82
4-Chlorotoluene
Concen: 20.803 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 366476

Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.3	52.0



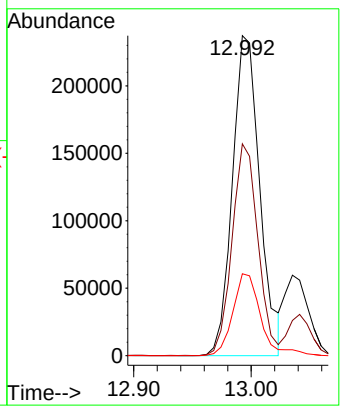


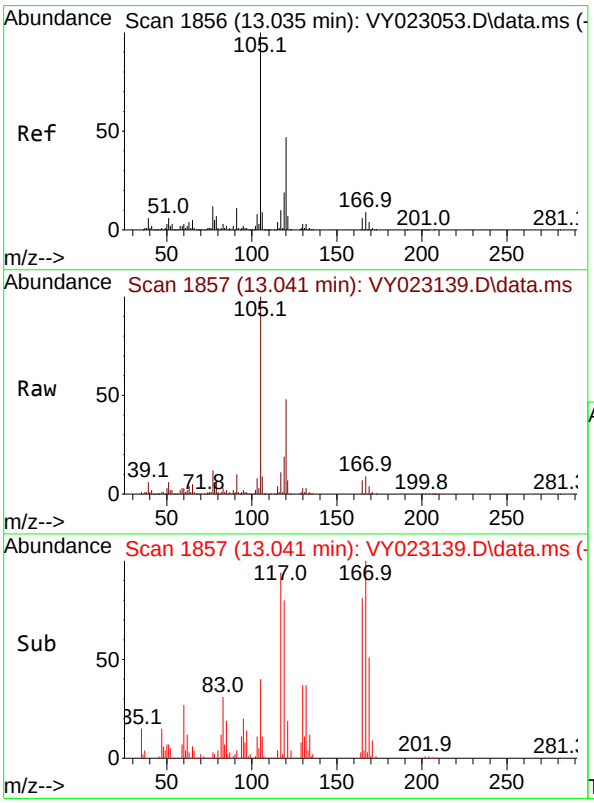
#83
tert-Butylbenzene
Concen: 21.122 ug/l
RT: 12.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

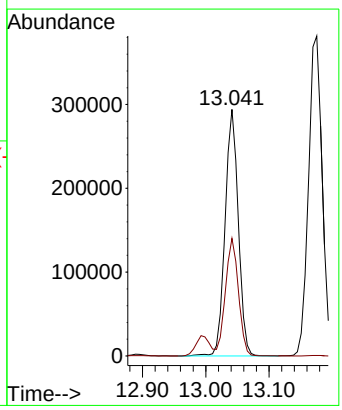


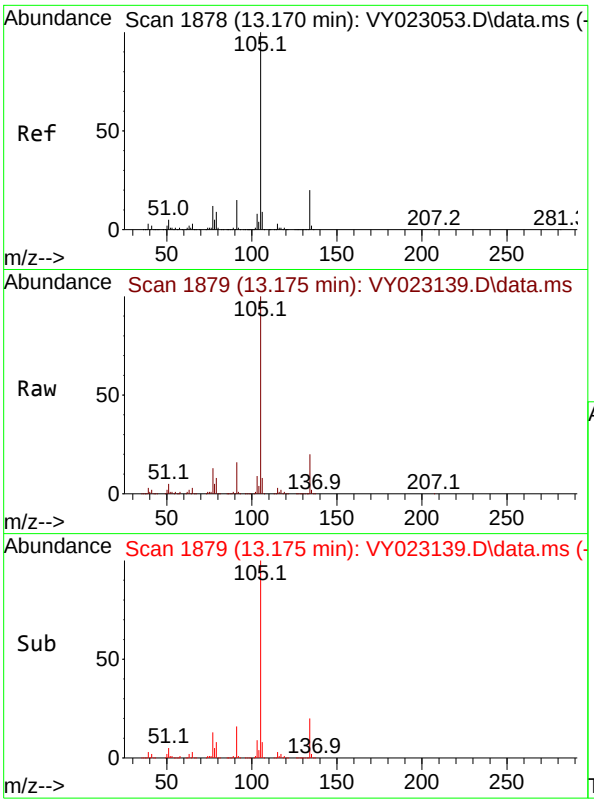


#84
1,2,4-Trimethylbenzene
Concen: 21.298 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 426567

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0



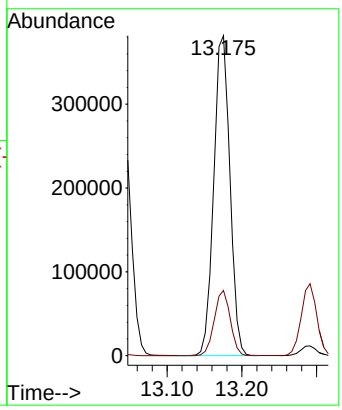


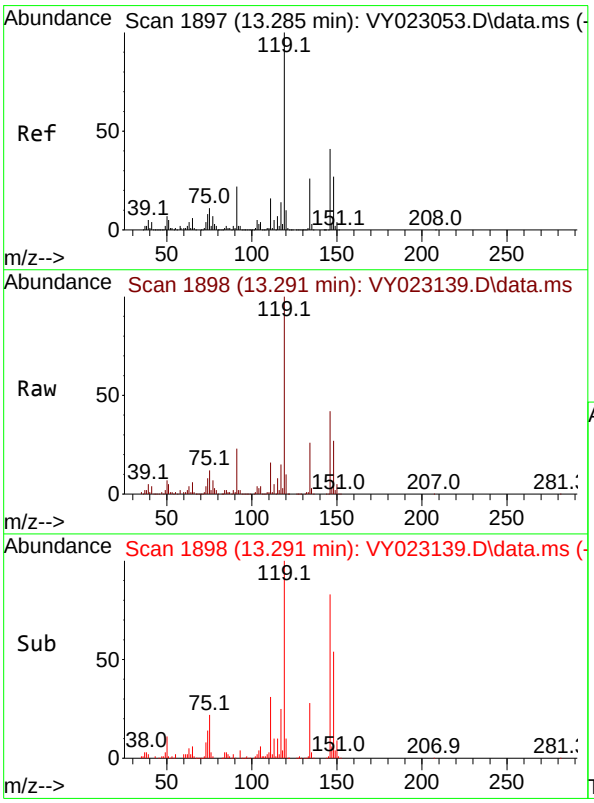
#85
sec-Butylbenzene
Concen: 21.463 ug/l
RT: 13.175 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Instrument :
MSVOA_Y
ClientSampleId :
VY0819SBS01

Tgt Ion:105 Resp: 572911

Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.4

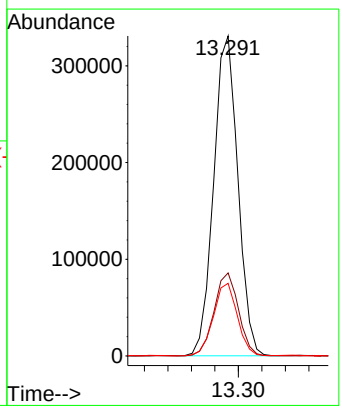


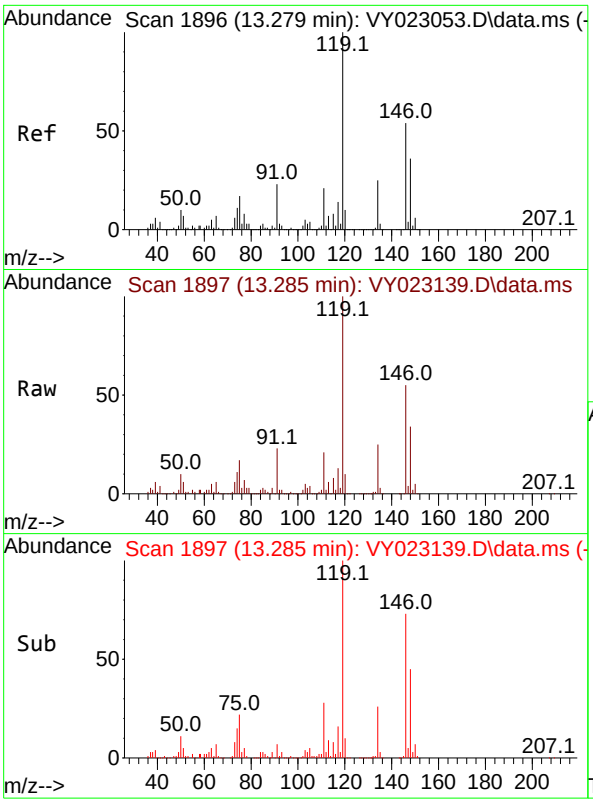


#86
p-Isopropyltoluene
Concen: 21.375 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



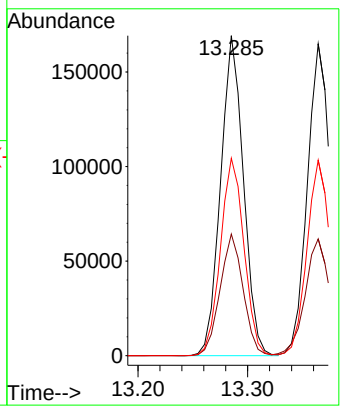


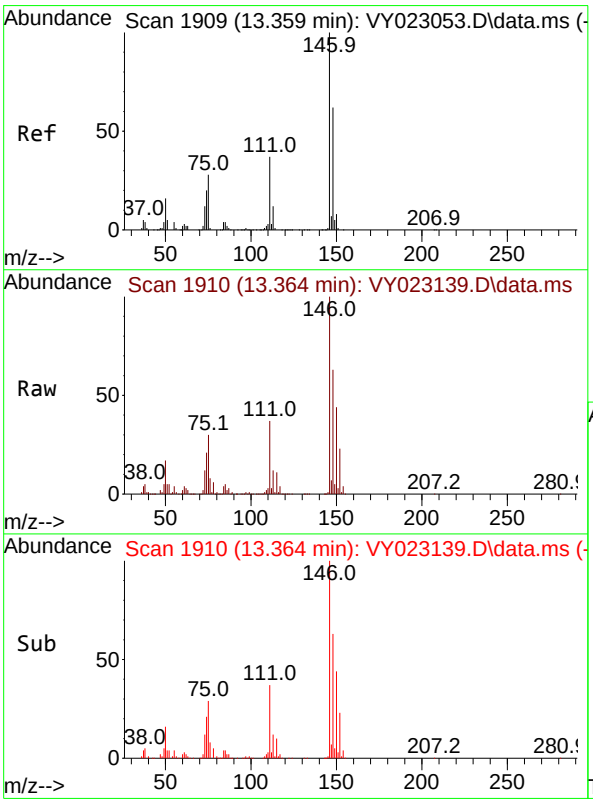
#87
1,3-Dichlorobenzene
Concen: 20.938 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

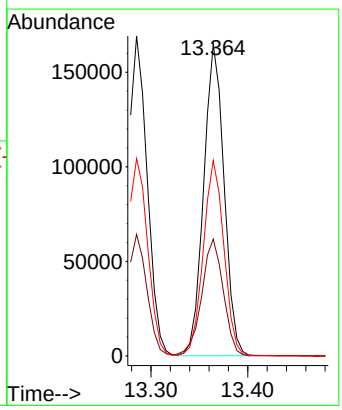


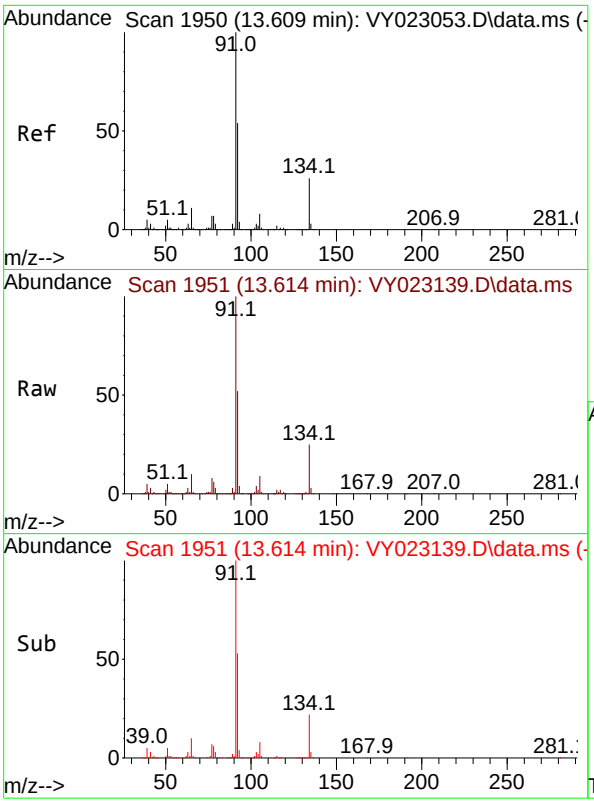


#88
1,4-Dichlorobenzene
Concen: 20.829 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



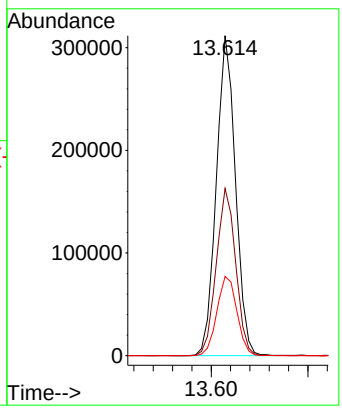


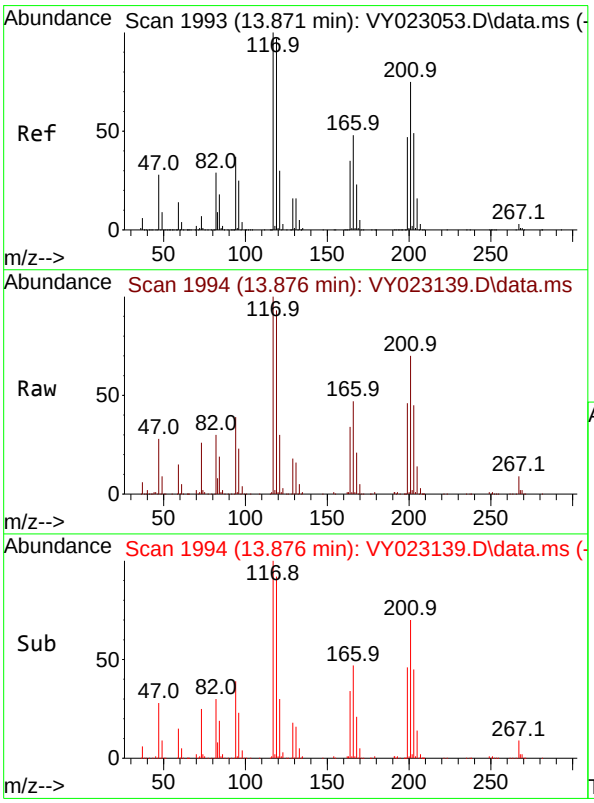
#89
n-Butylbenzene
Concen: 20.989 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

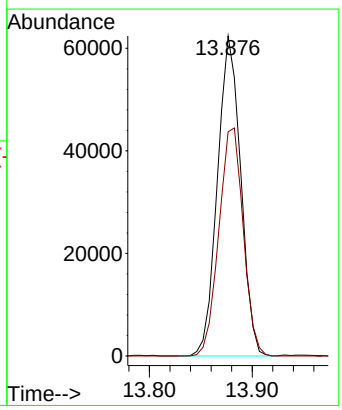


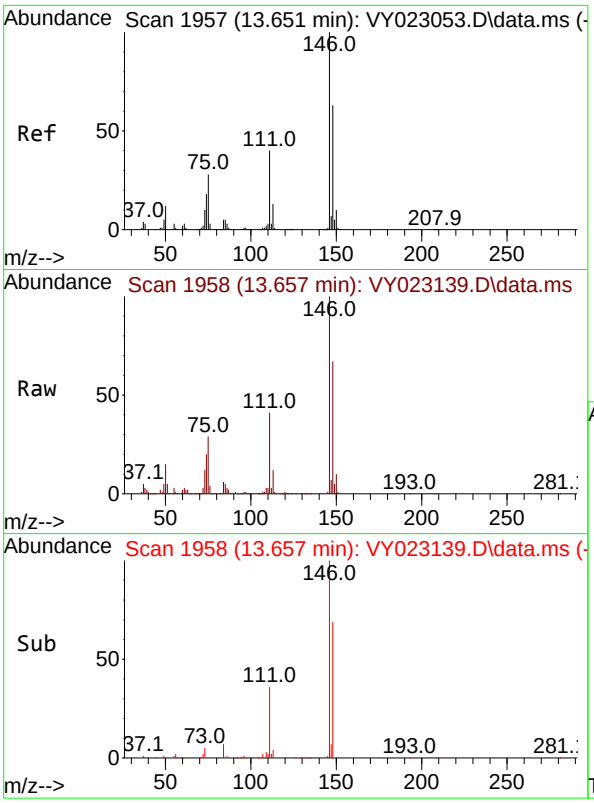


#90
Hexachloroethane
Concen: 21.595 ug/l
RT: 13.876 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 97949

Ion	Ratio	Lower	Upper
117	100		
201	74.7	38.4	115.1



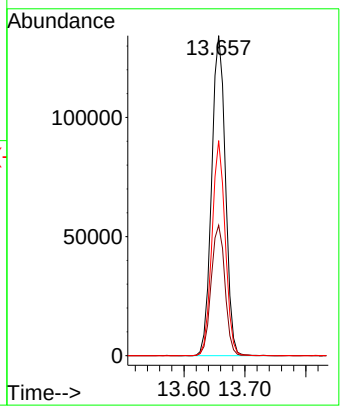


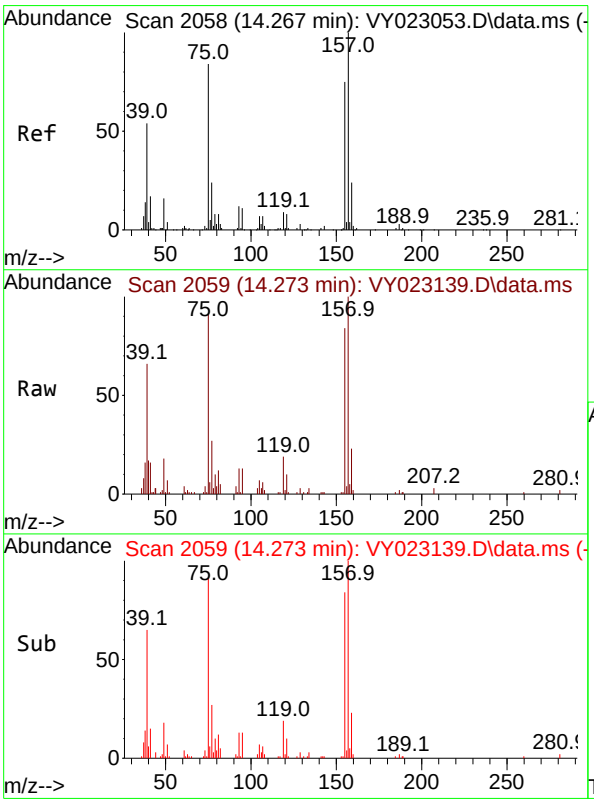
#91
1,2-Dichlorobenzene
Concen: 20.524 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

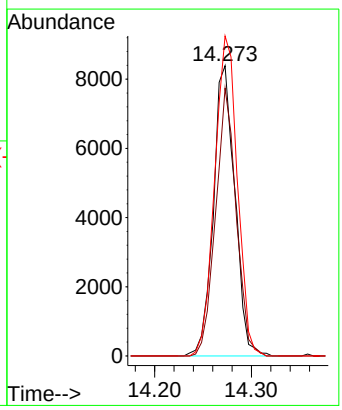


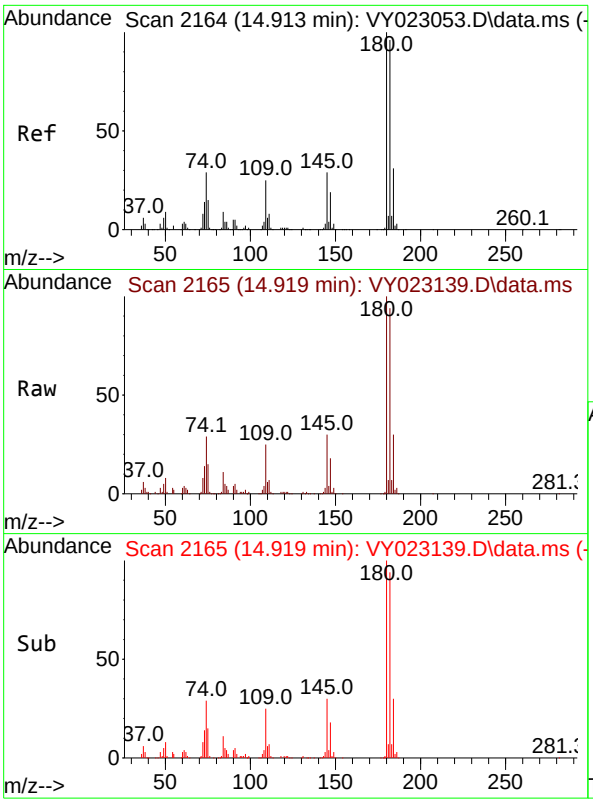


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.499 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



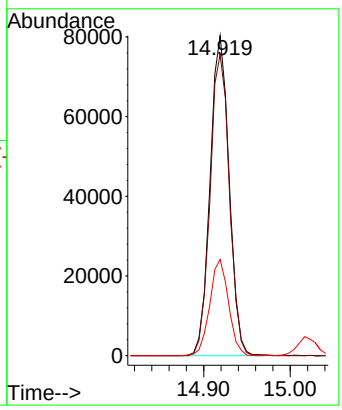


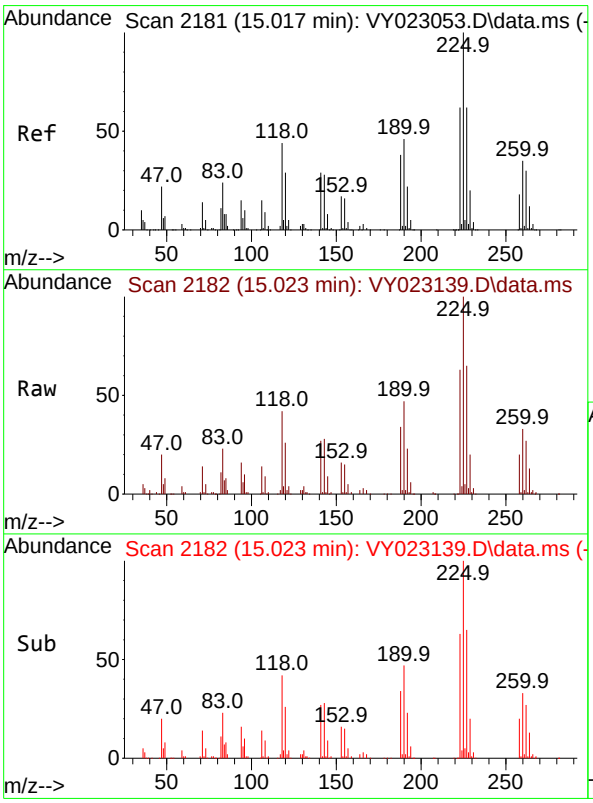
#93
1,2,4-Trichlorobenzene
Concen: 20.157 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

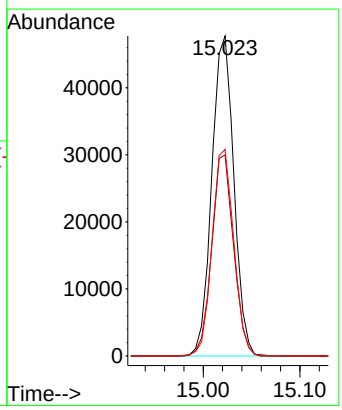


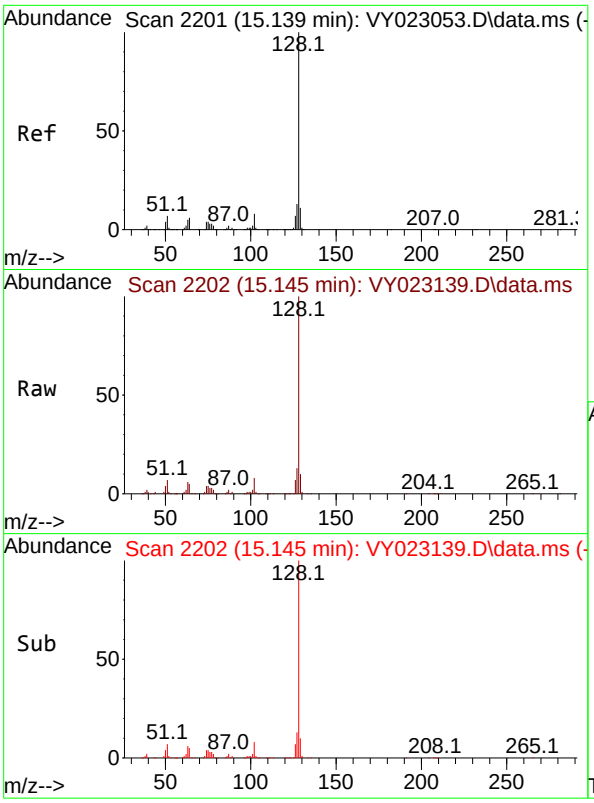


#94
Hexachlorobutadiene
Concen: 21.149 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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



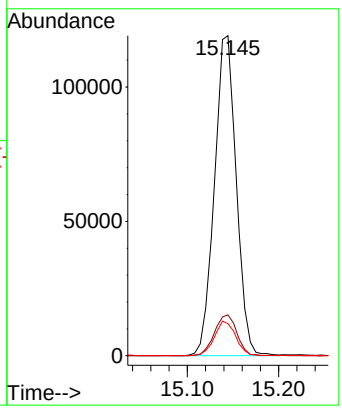


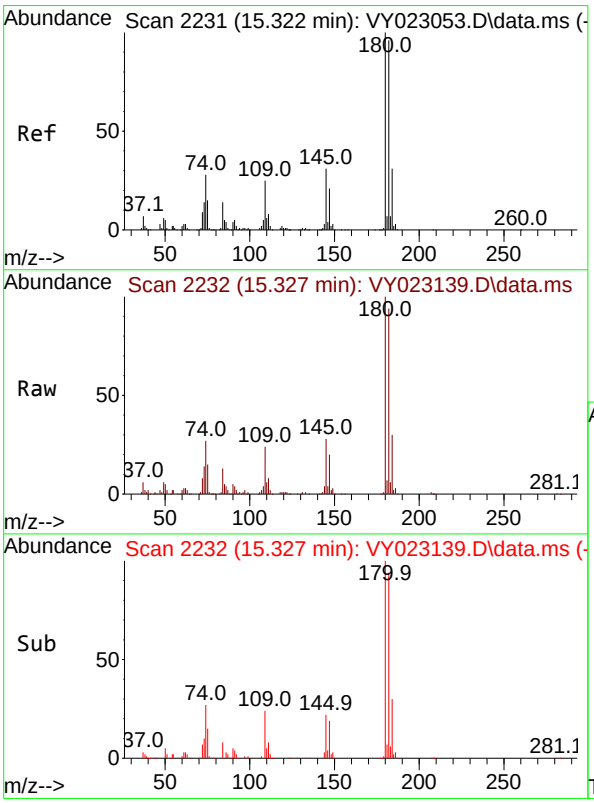
#95
Naphthalene
Concen: 19.124 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

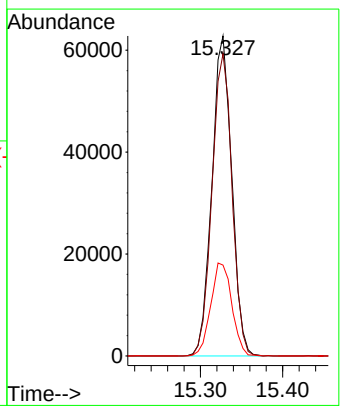




#96
1,2,3-Trichlorobenzene
Concen: 20.115 ug/l
RT: 15.327 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

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

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)

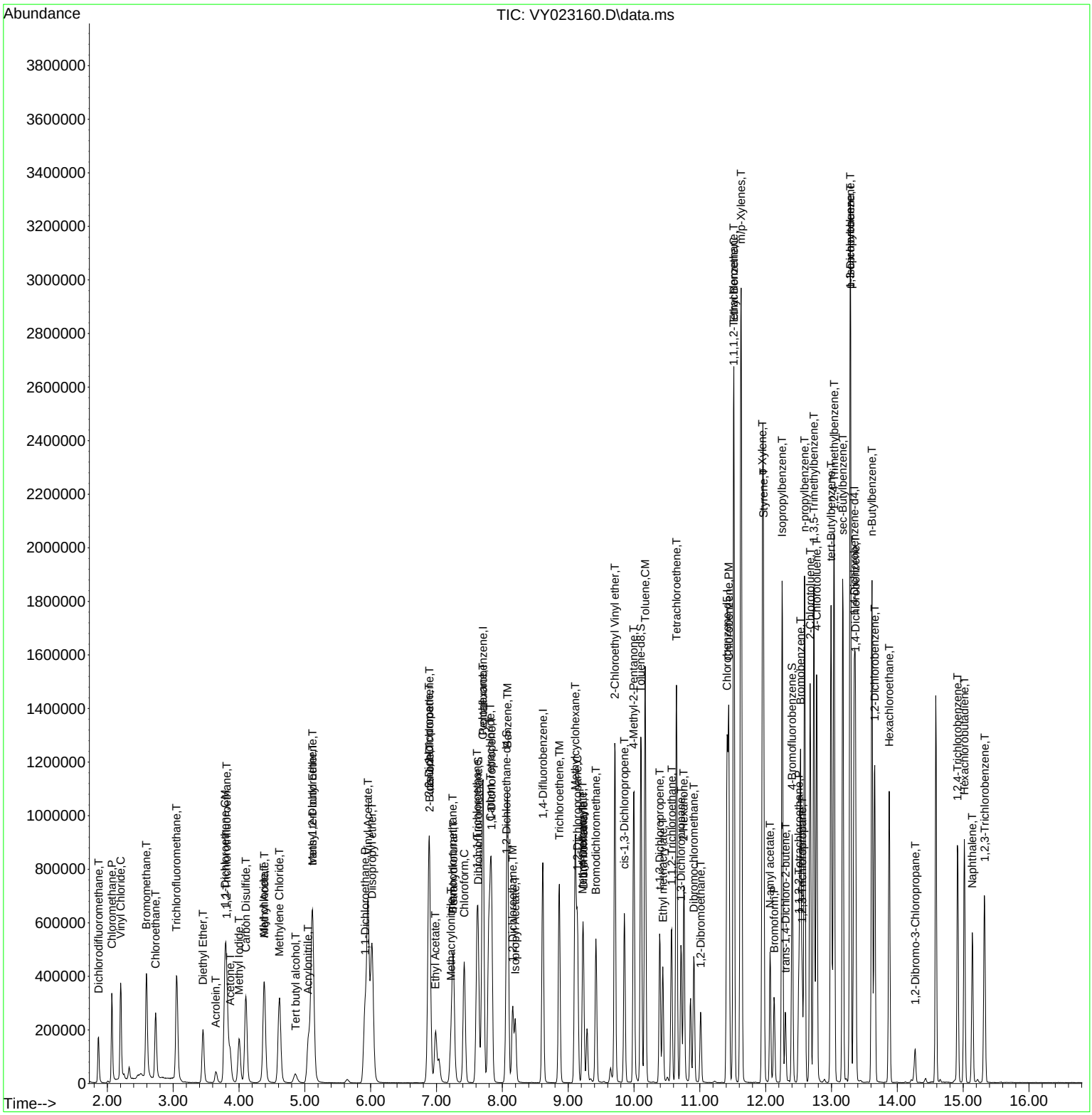
(#) = qualifier out of range (m) = manual integration (+) = signals summed

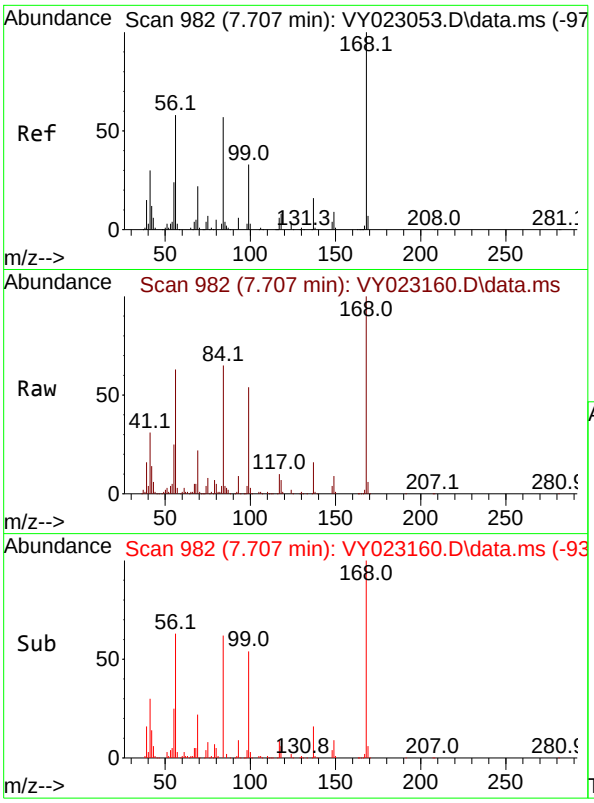
Quantitation Report (Not Reviewed)

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



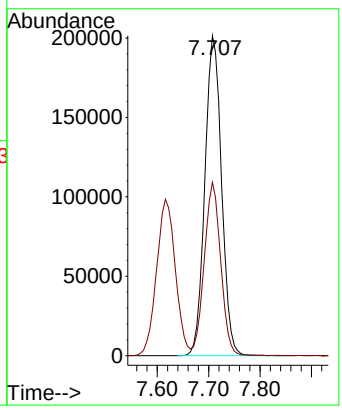


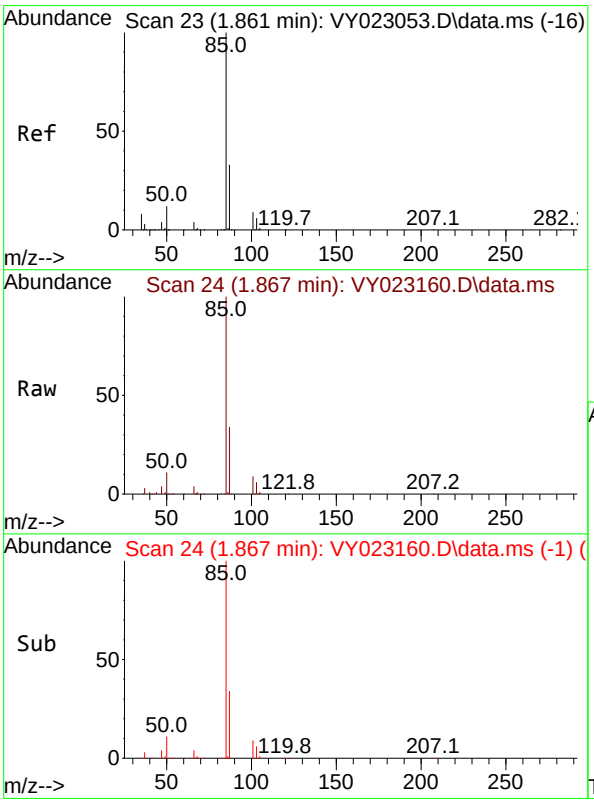
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 453917

Ion	Ratio	Lower	Upper
168	100		
99	54.1	42.8	64.2

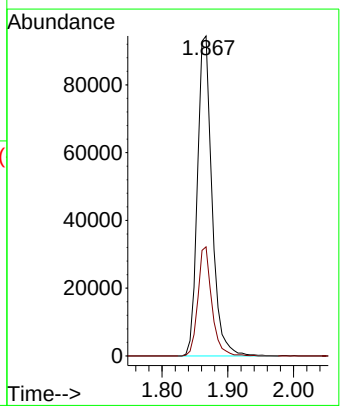


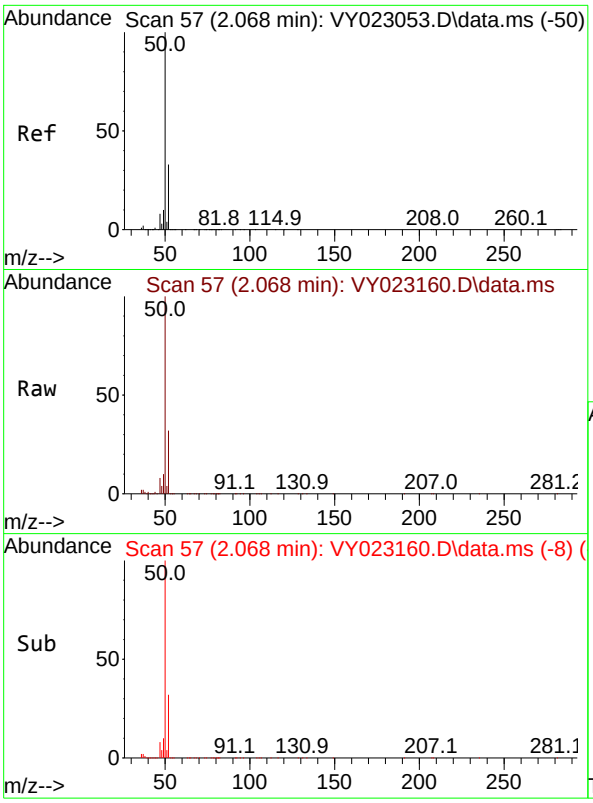


#2
Dichlorodifluoromethane
Concen: 39.160 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 85 Resp: 145094

Ion	Ratio	Lower	Upper
85	100		
87	34.1	16.6	49.8



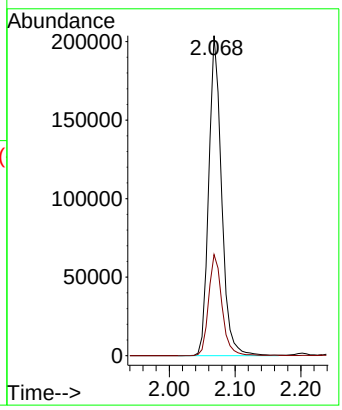


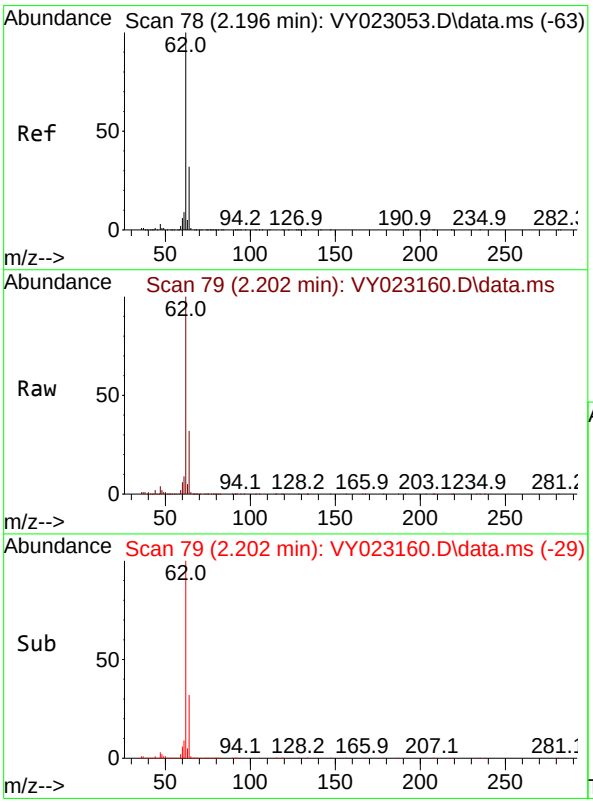
#3
Chloromethane
Concen: 46.137 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 276875

Ion	Ratio	Lower	Upper
50	100		
52	31.6	26.7	40.1

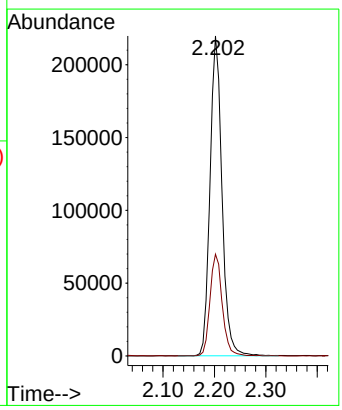


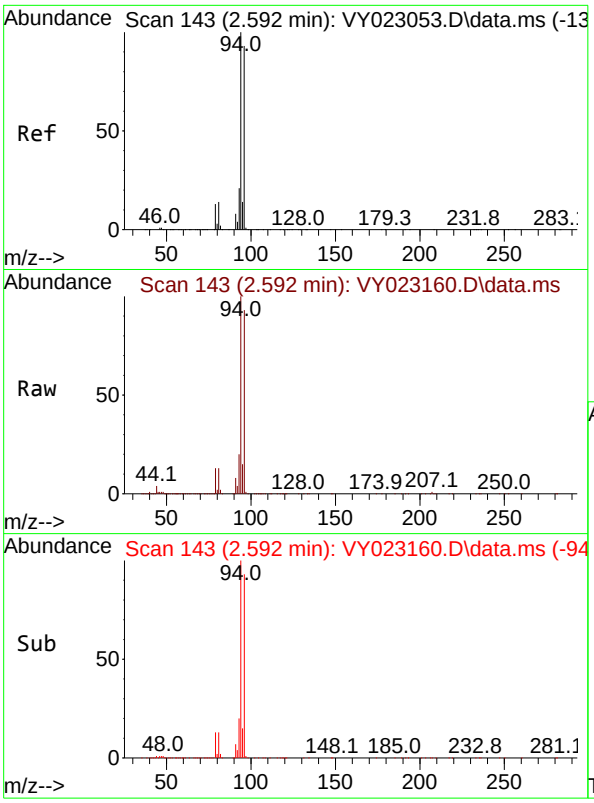


#4
Vinyl Chloride
Concen: 47.848 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 354948

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.4	38.0



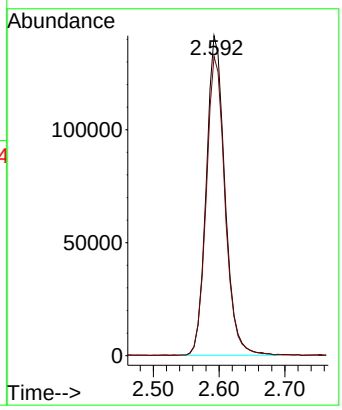


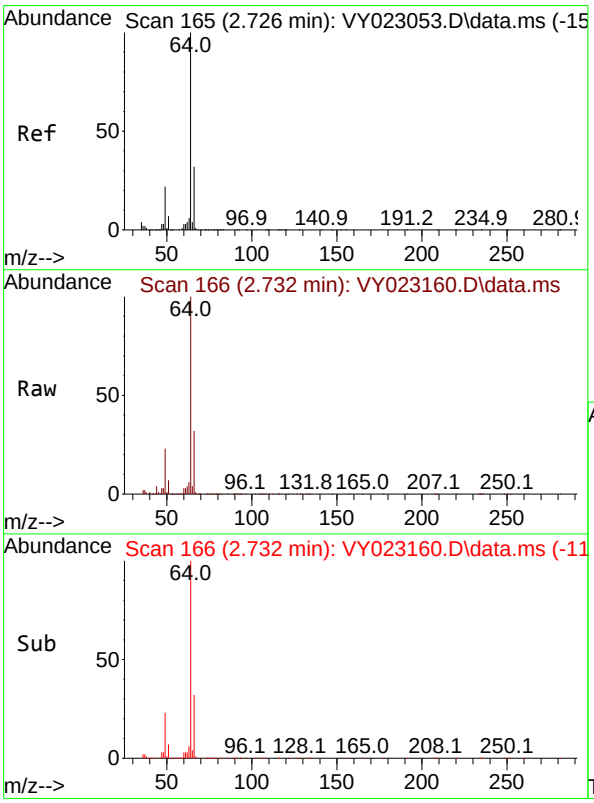
#5
Bromomethane
Concen: 50.342 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 278901

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.6	112.0

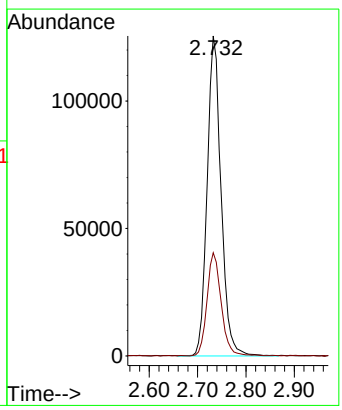


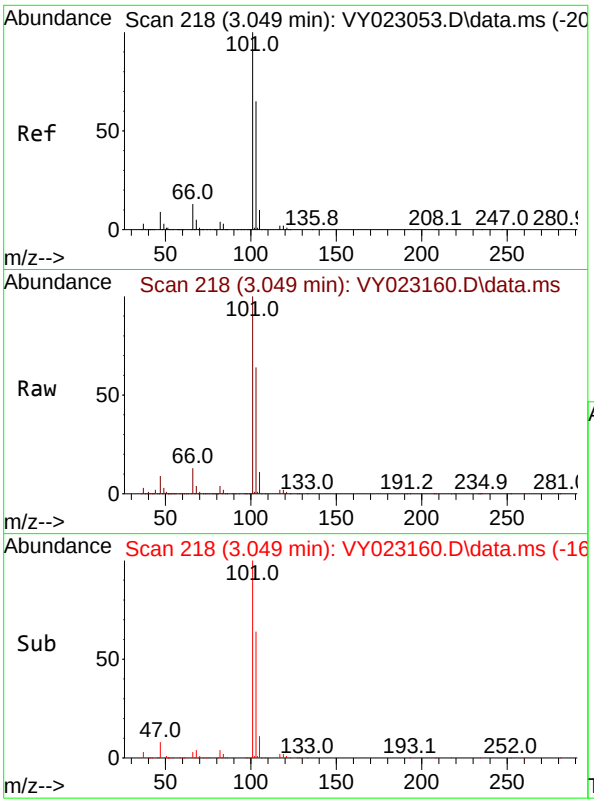


#6
Chloroethane
Concen: 50.860 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 64 Resp: 250831

Ion	Ratio	Lower	Upper
64	100		
66	32.1	25.8	38.6



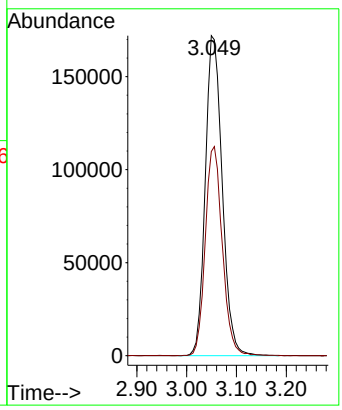


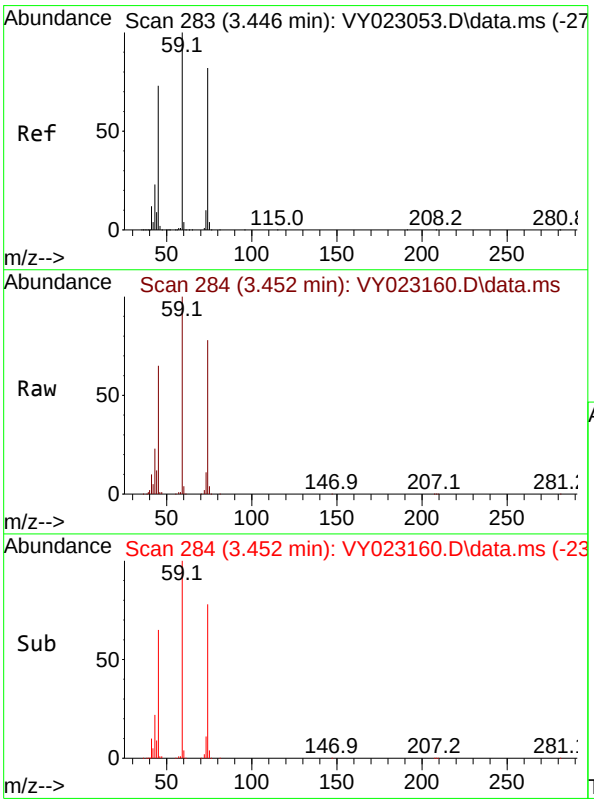
#7
Trichlorofluoromethane
Concen: 44.950 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 405455

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.9	77.9

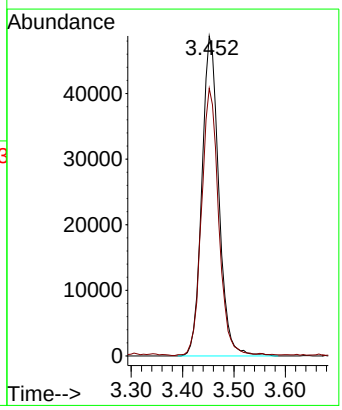


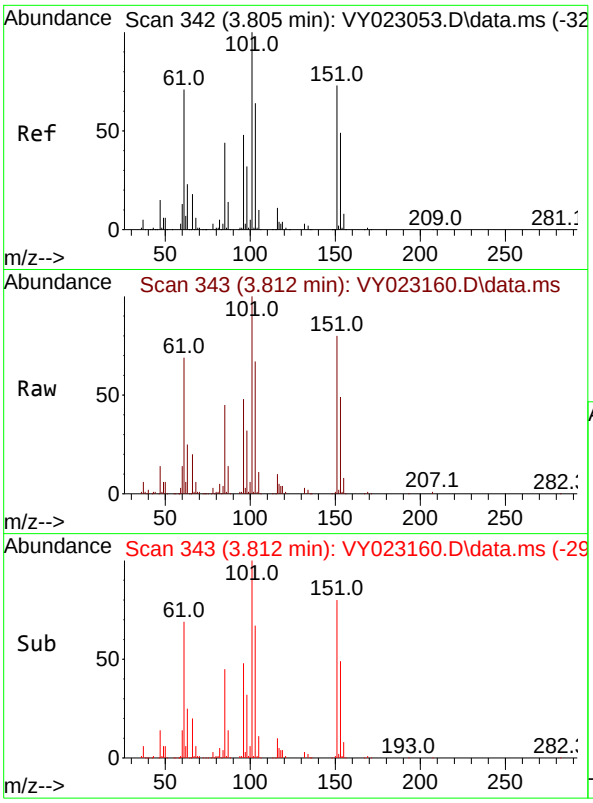


#8
Diethyl Ether
Concen: 46.597 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 74 Resp: 111202

Ion	Ratio	Lower	Upper
74	100		
45	84.5	44.4	133.2



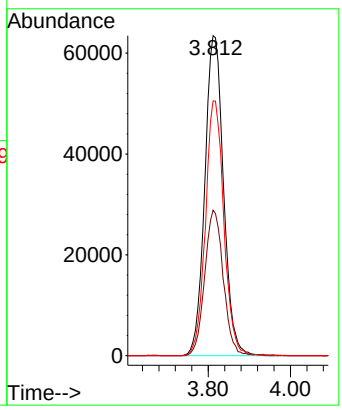


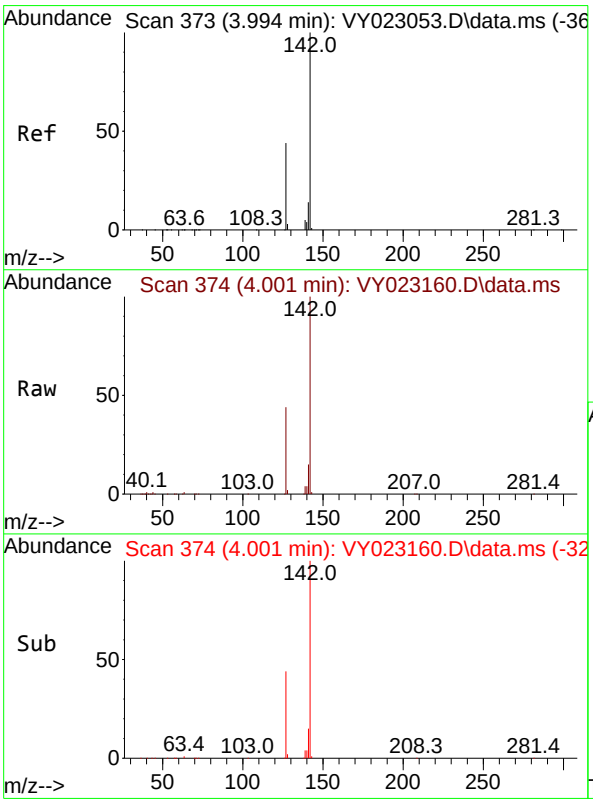
#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.085 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

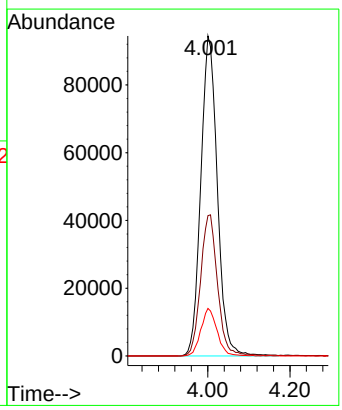


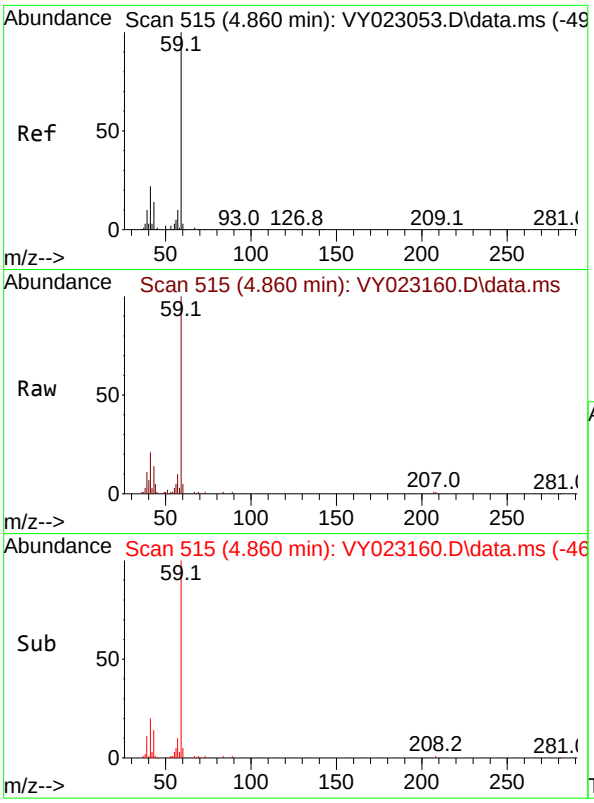


#10
Methyl Iodide
Concen: 54.928 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



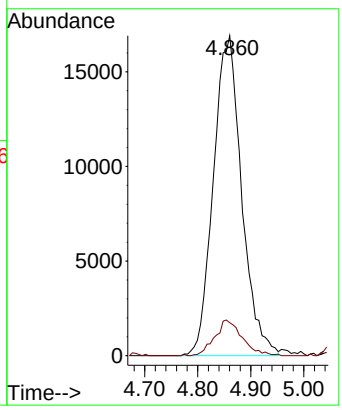


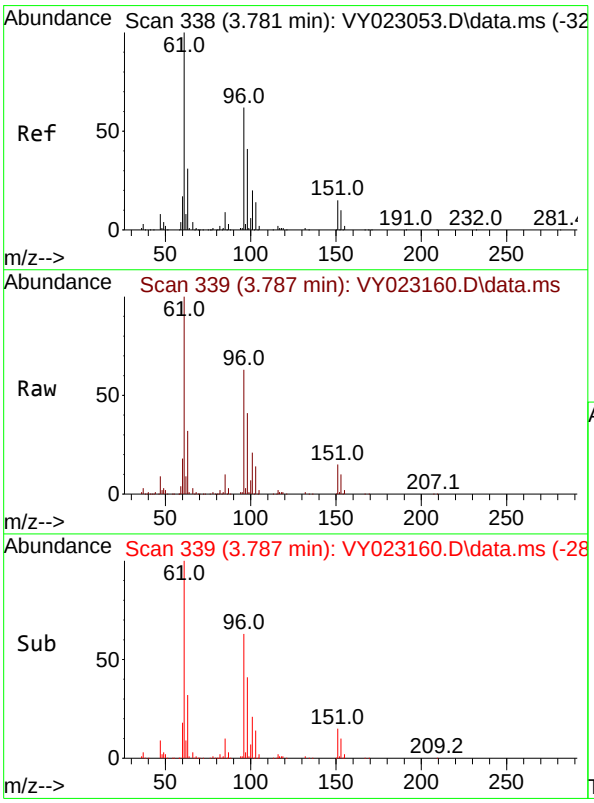
#11
Tert butyl alcohol
Concen: 211.323 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 62641

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	13.0

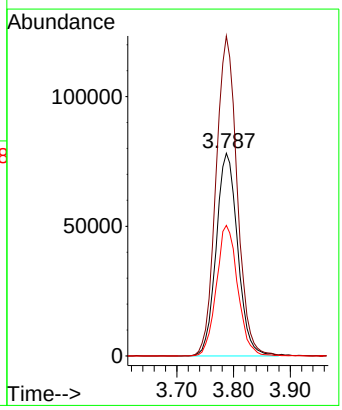


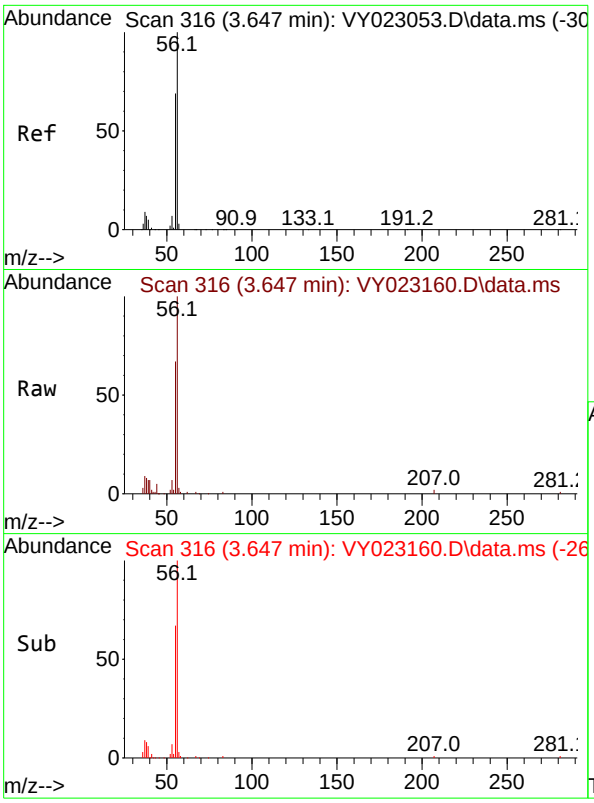


#12
1,1-Dichloroethene
Concen: 47.120 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



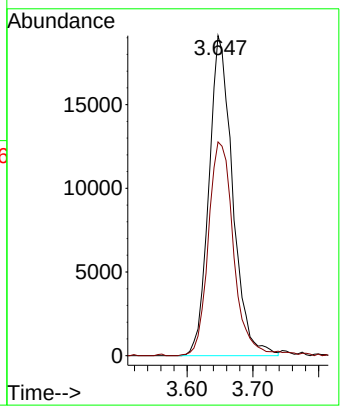


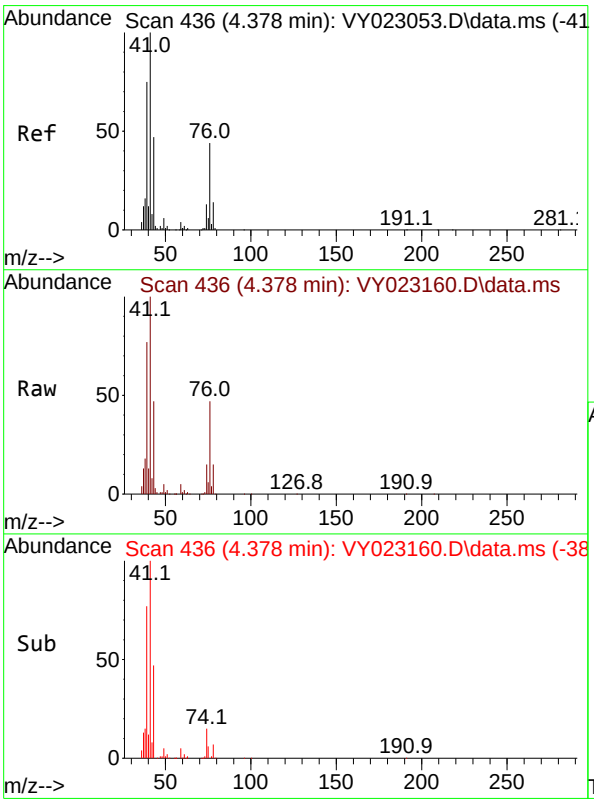
#13
Acrolein
Concen: 110.581 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 48005

Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.2	82.8

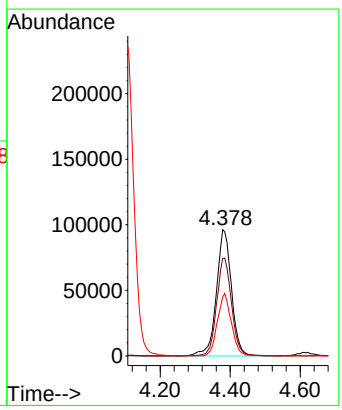


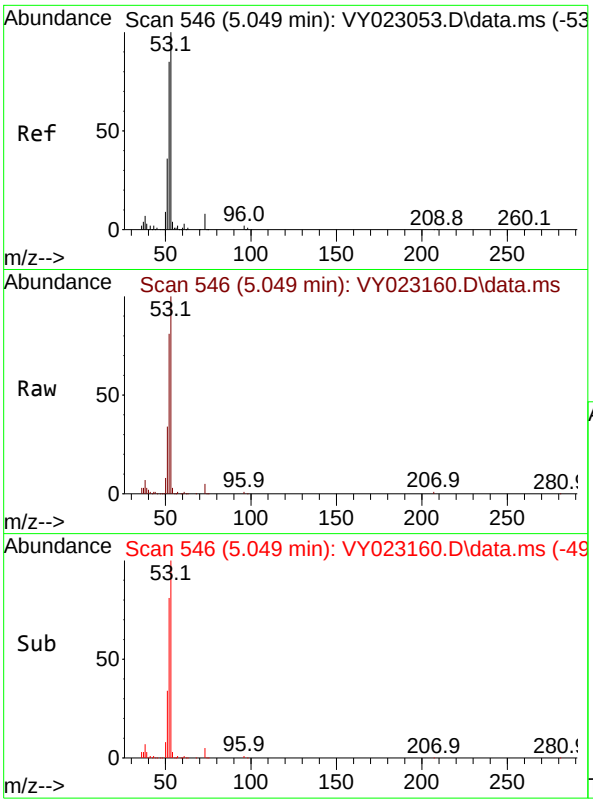


#14
Allyl chloride
Concen: 44.800 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



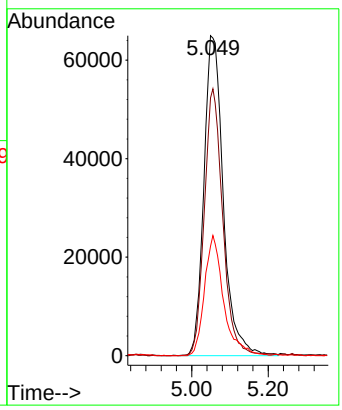


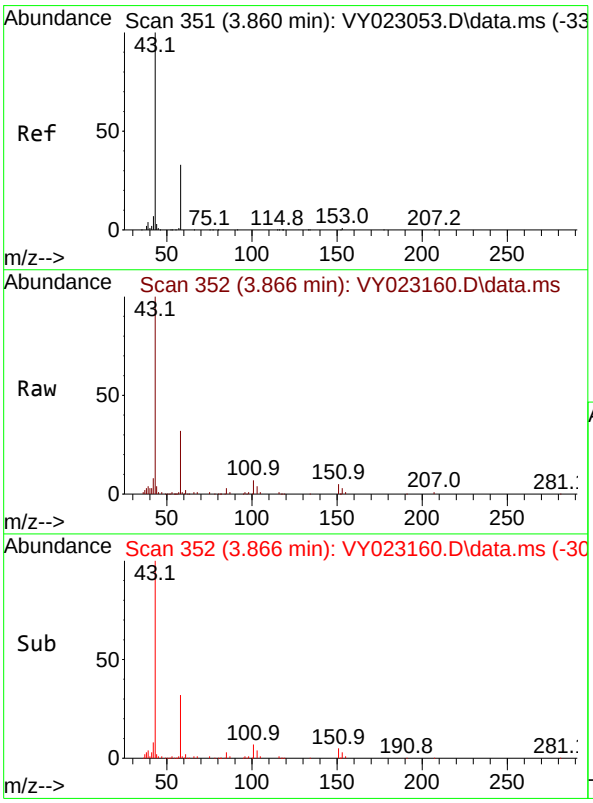
#15
Acrylonitrile
Concen: 235.673 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

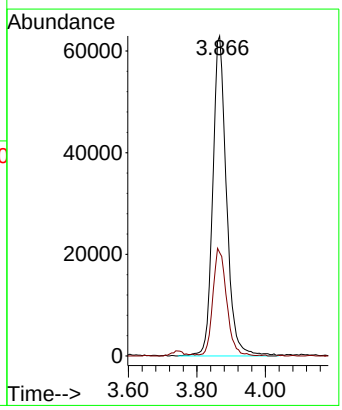


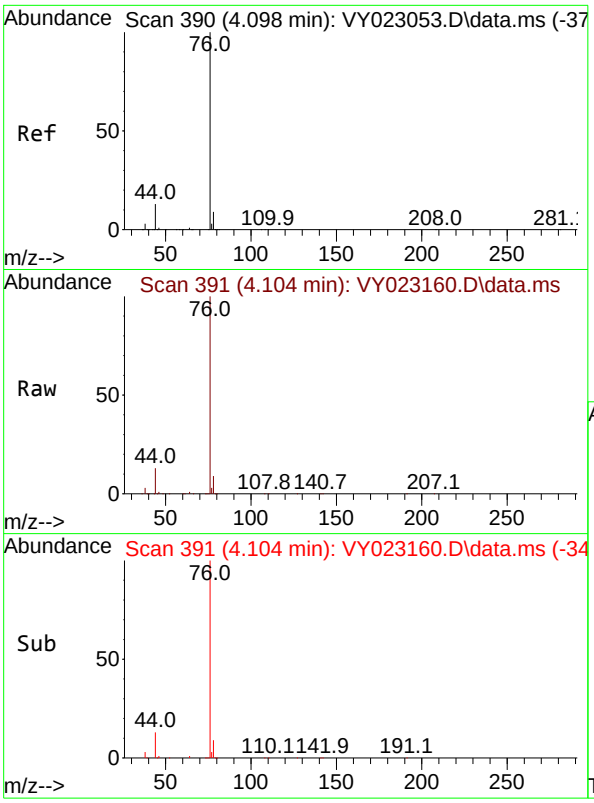


#16
Acetone
Concen: 187.073 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 175331

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.1	40.7



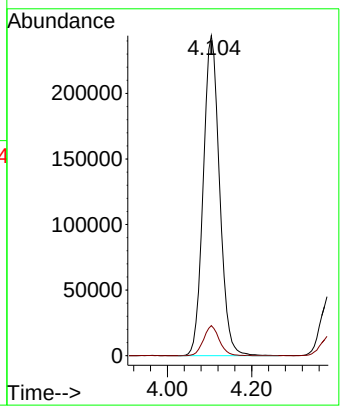


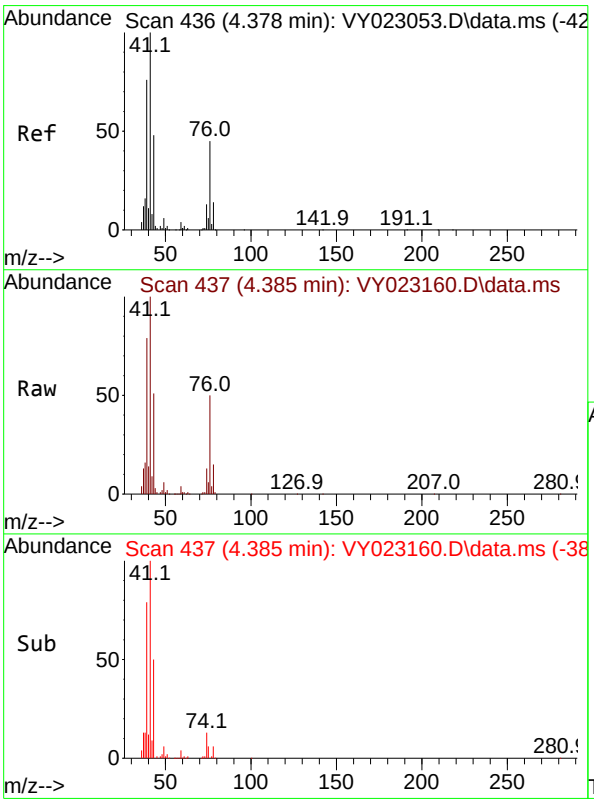
#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 657020

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.2

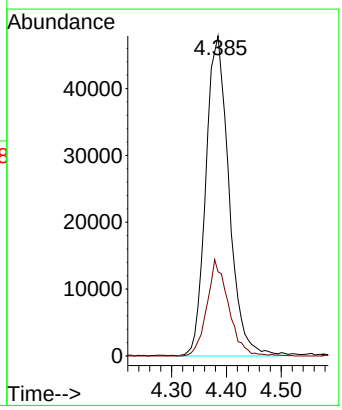


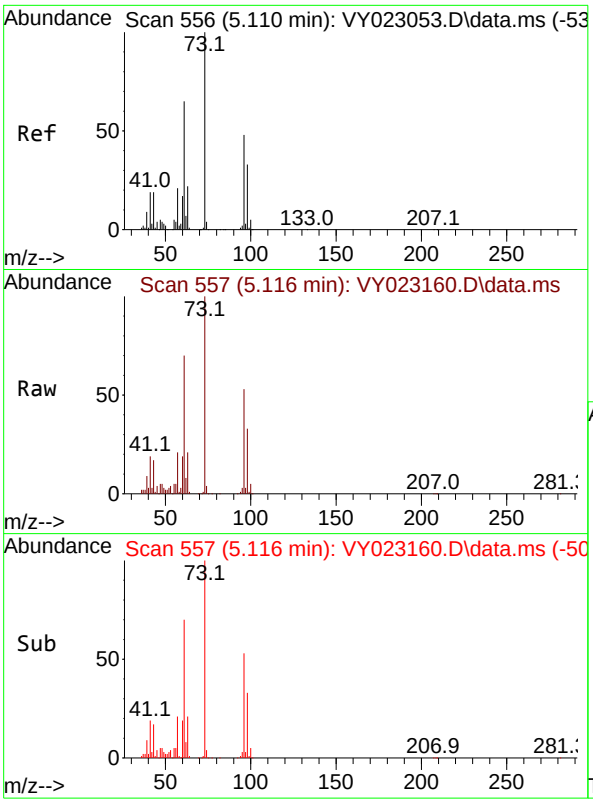


#18
Methyl Acetate
Concen: 50.290 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 140261

Ion	Ratio	Lower	Upper
43	100		
74	28.1	21.2	31.8



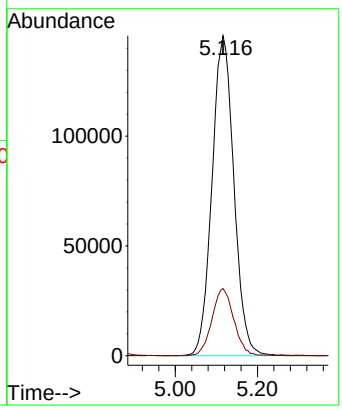


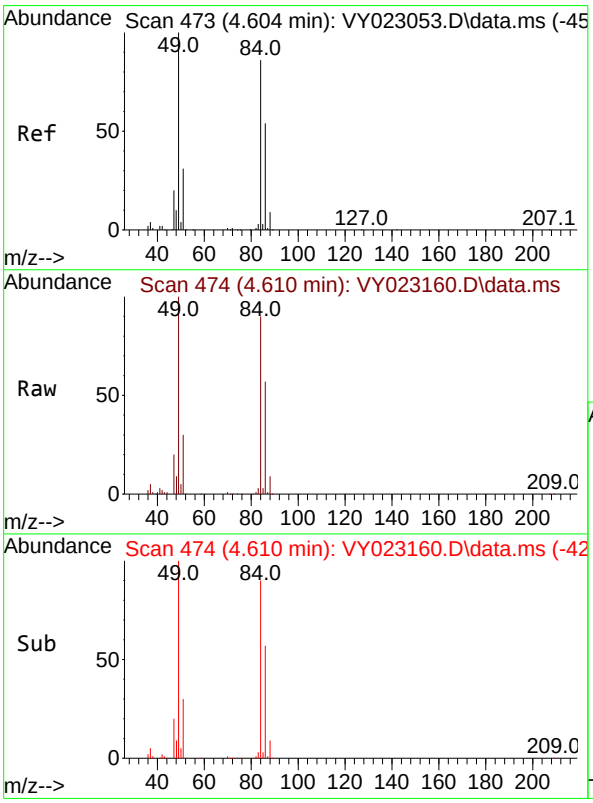
#19
Methyl tert-butyl Ether
Concen: 47.480 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 538168

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.1	25.7

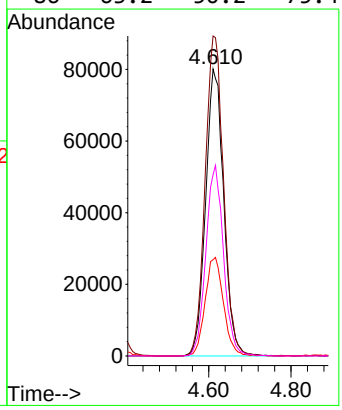


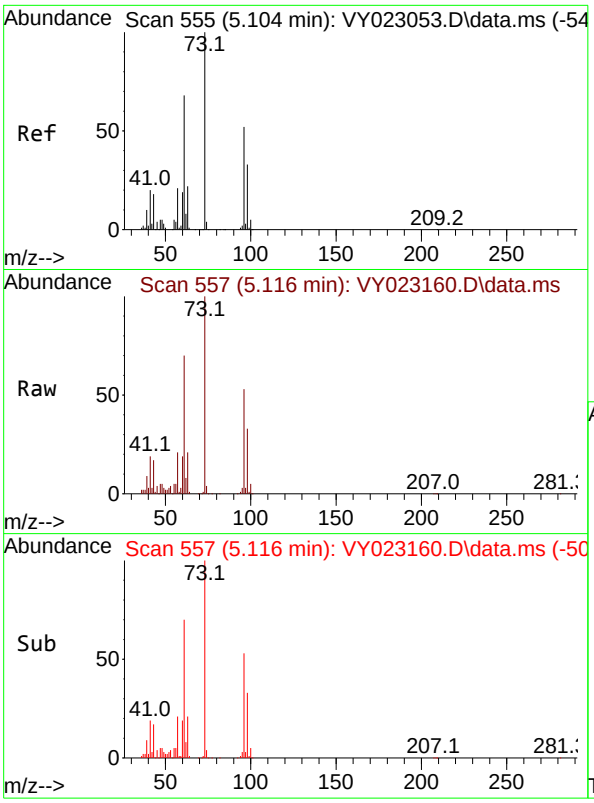


#20
Methylene Chloride
Concen: 50.247 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



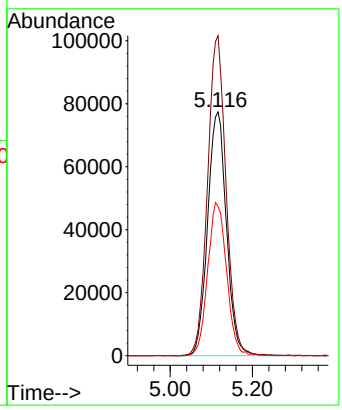


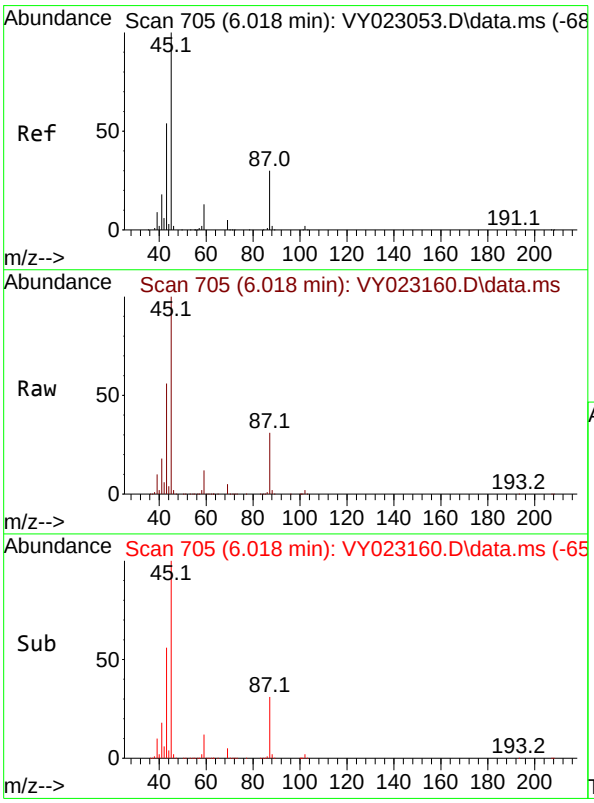
#21
trans-1,2-Dichloroethene
Concen: 50.119 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

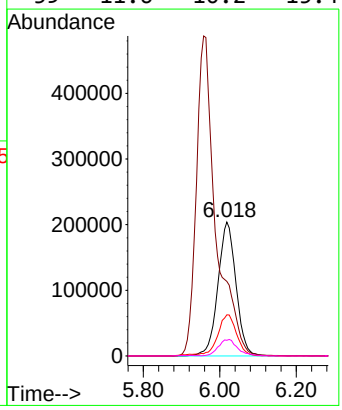


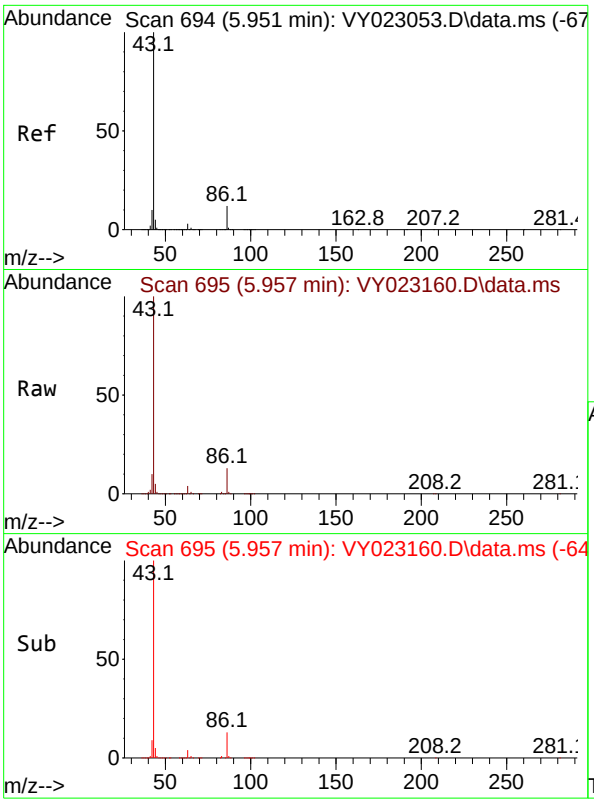


#22
Diisopropyl ether
Concen: 47.919 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



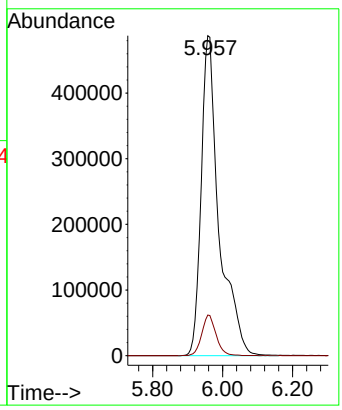


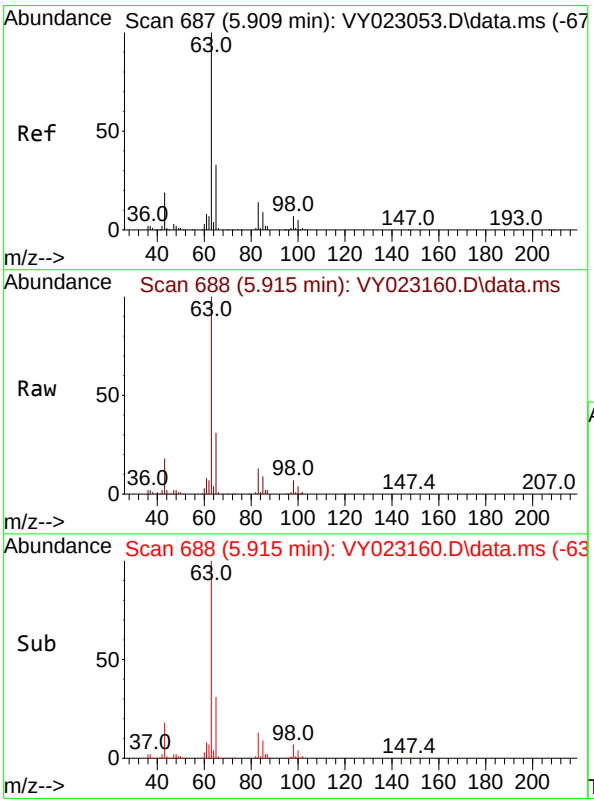
#23
Vinyl Acetate
Concen: 223.289 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1726827

Ion	Ratio	Lower	Upper
43	100		
86	12.7	9.6	14.4

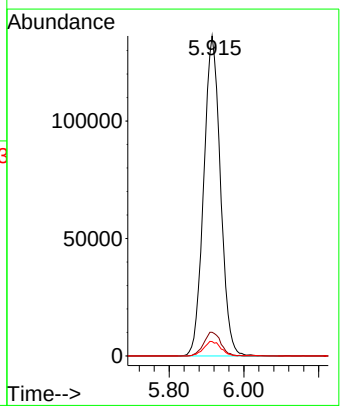


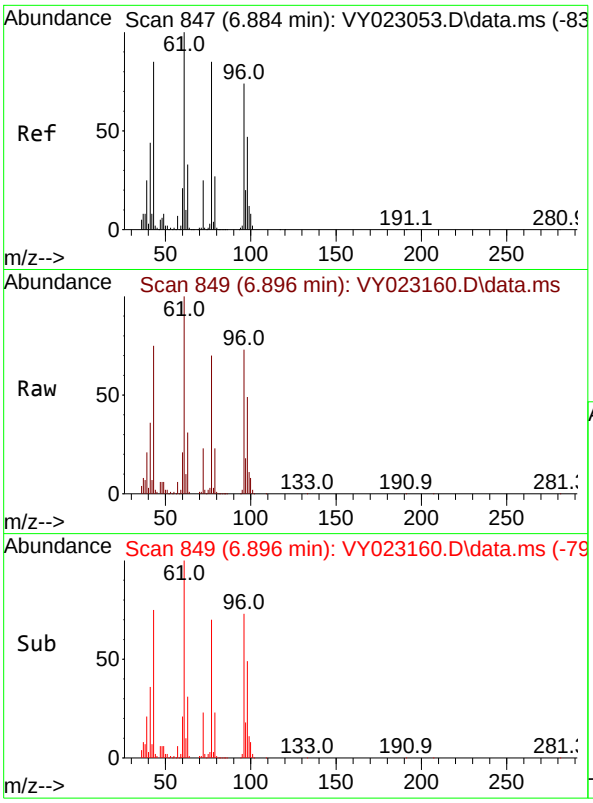


#24
1,1-Dichloroethane
Concen: 49.522 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



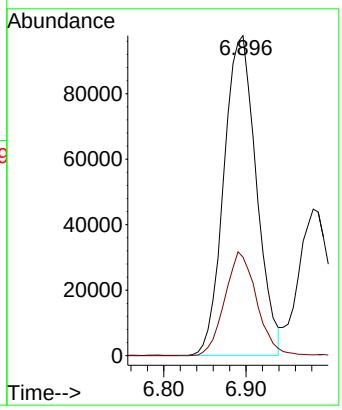


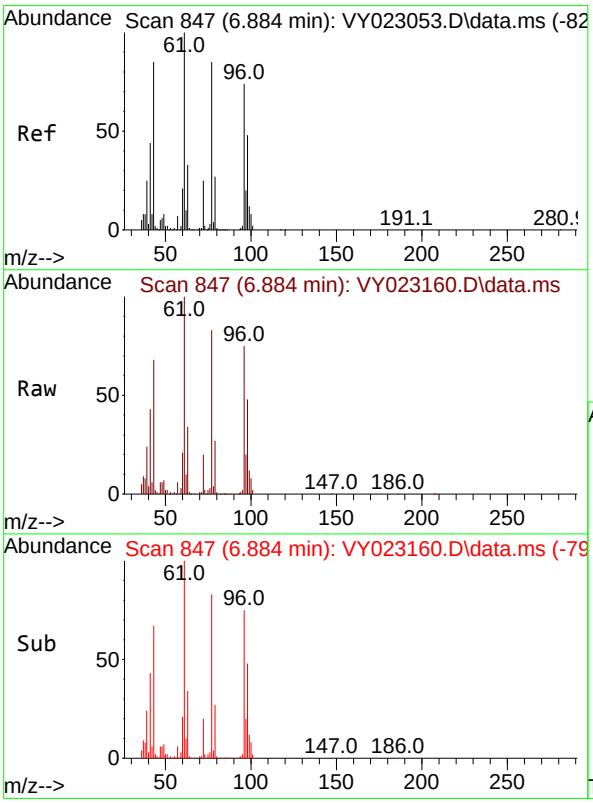
#25
2-Butanone
Concen: 210.456 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 268264

Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.5	35.3

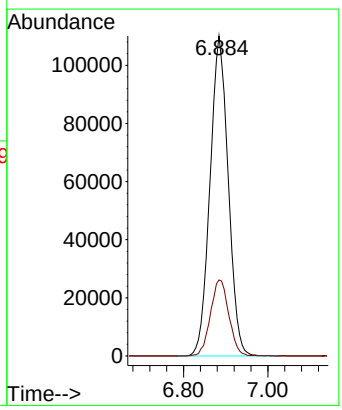


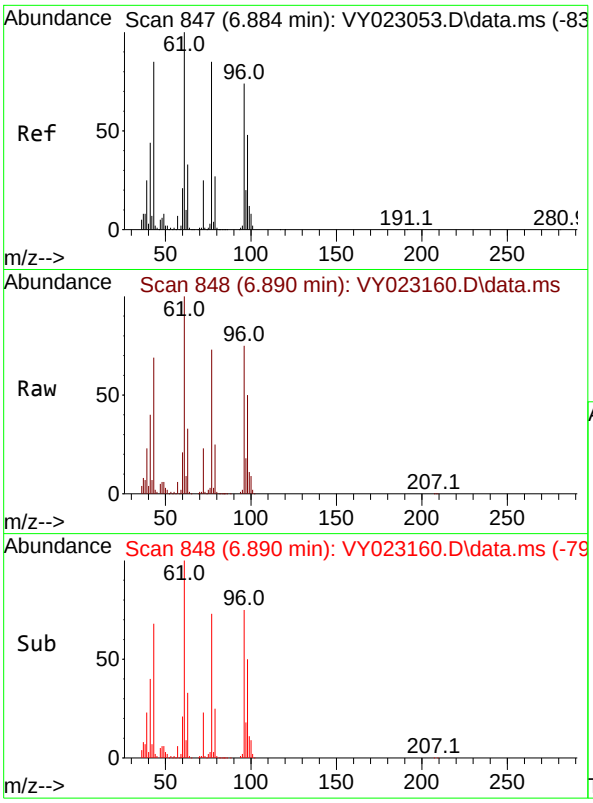


#26
2,2-Dichloropropane
Concen: 44.729 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 77 Resp: 330025

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.6	34.8



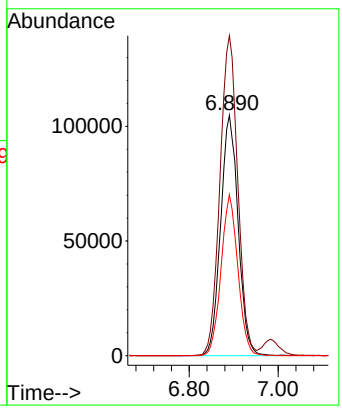


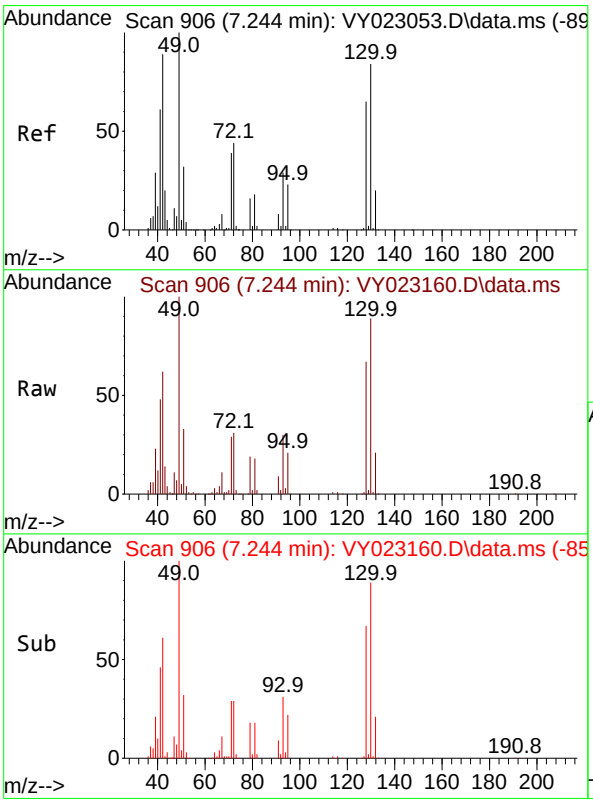
#27
cis-1,2-Dichloroethene
Concen: 50.390 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

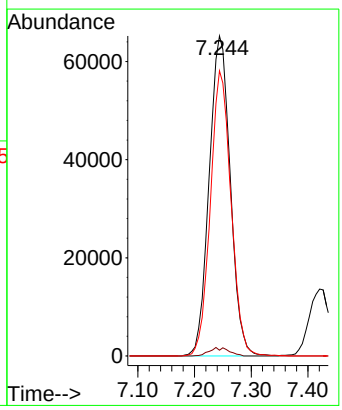


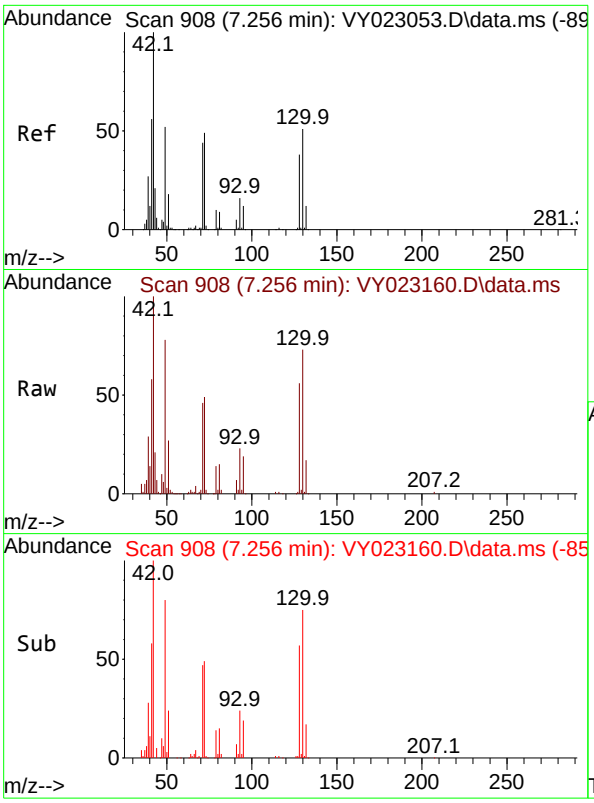


#28
Bromochloromethane
Concen: 49.712 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



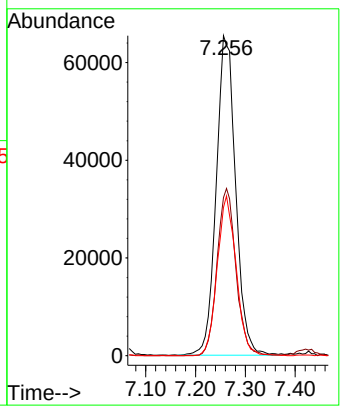


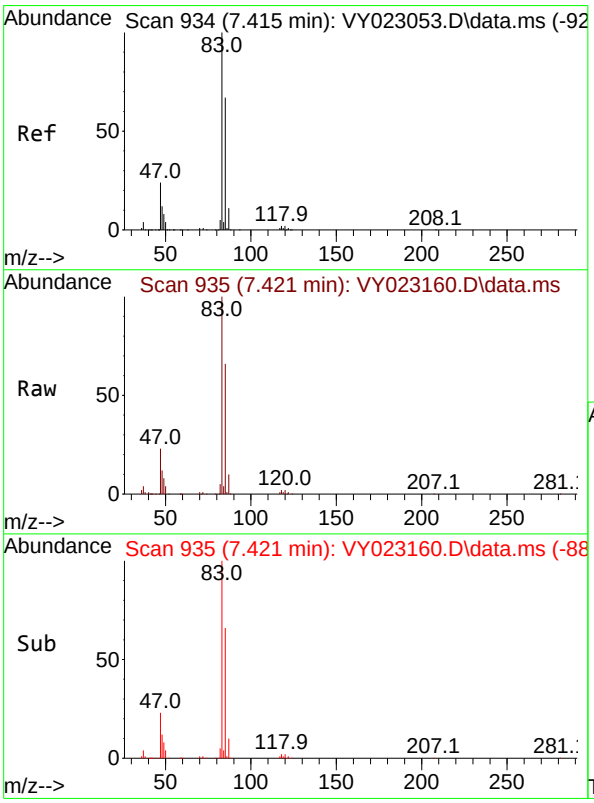
#29
Tetrahydrofuran
Concen: 223.965 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

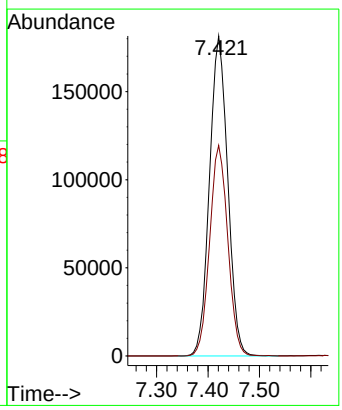


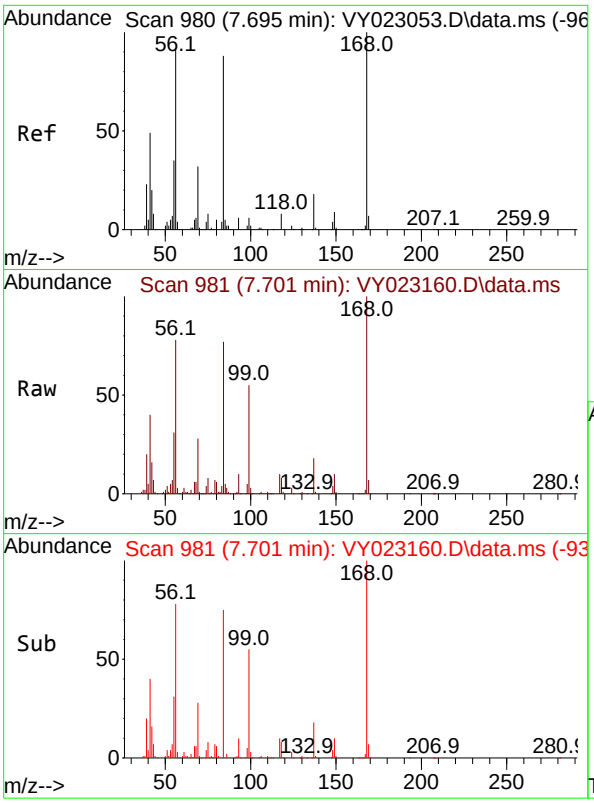


#30
Chloroform
Concen: 50.699 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 447102

Ion	Ratio	Lower	Upper
83	100		
85	65.8	53.8	80.8



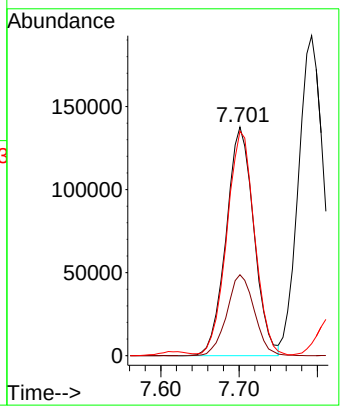


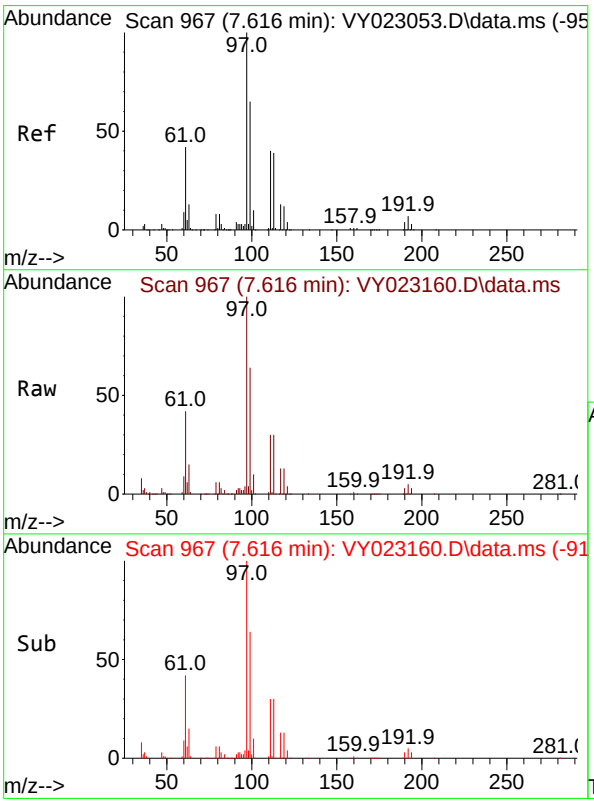
#31
Cyclohexane
Concen: 42.047 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

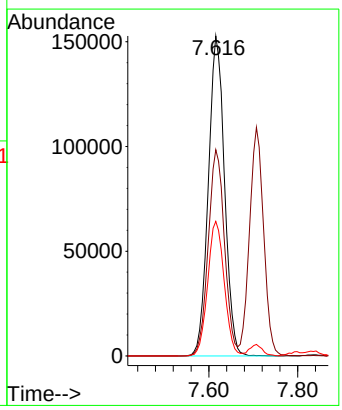


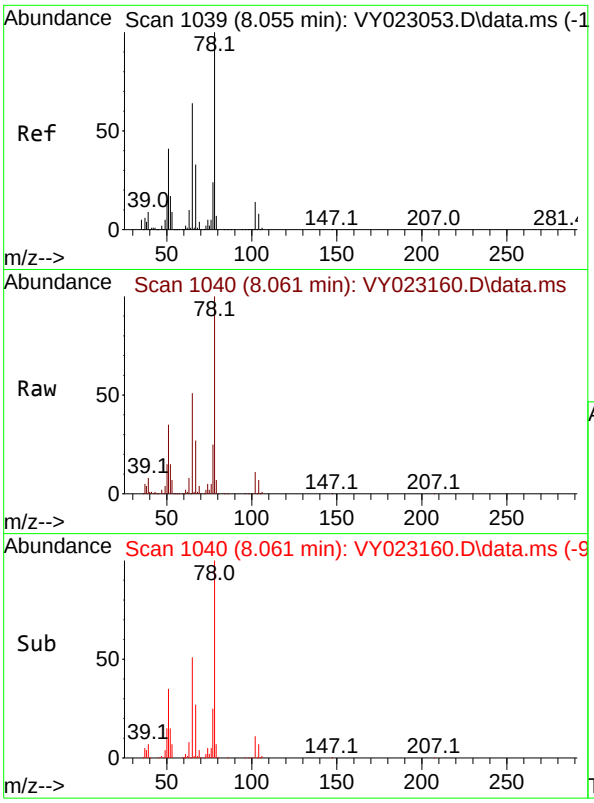


#32
1,1,1-Trichloroethane
Concen: 49.443 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



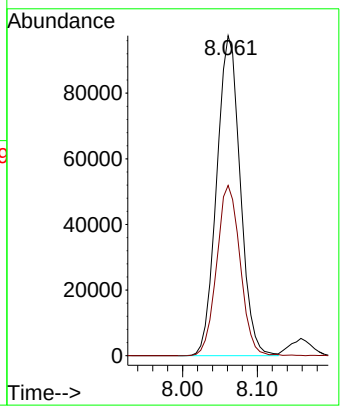


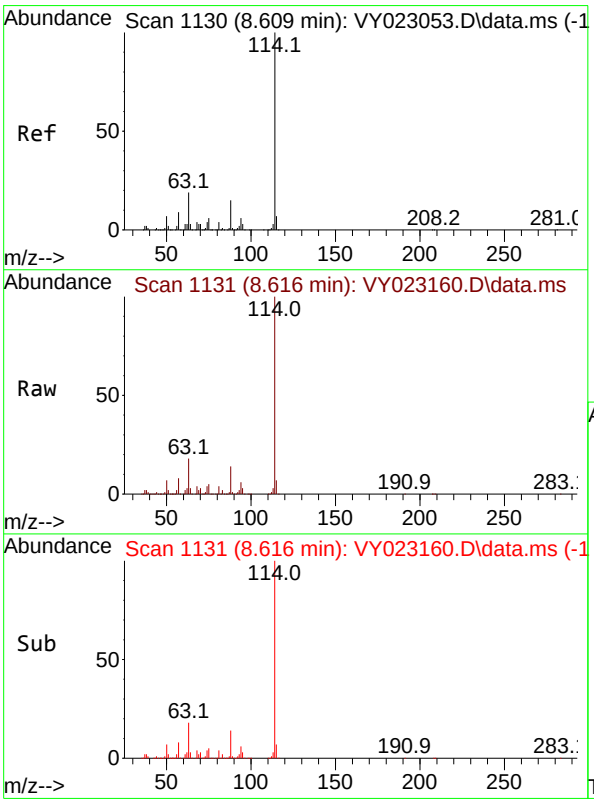
#33
1,2-Dichloroethane-d4
Concen: 49.322 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 213375

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8

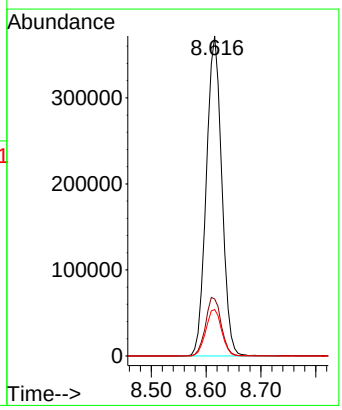


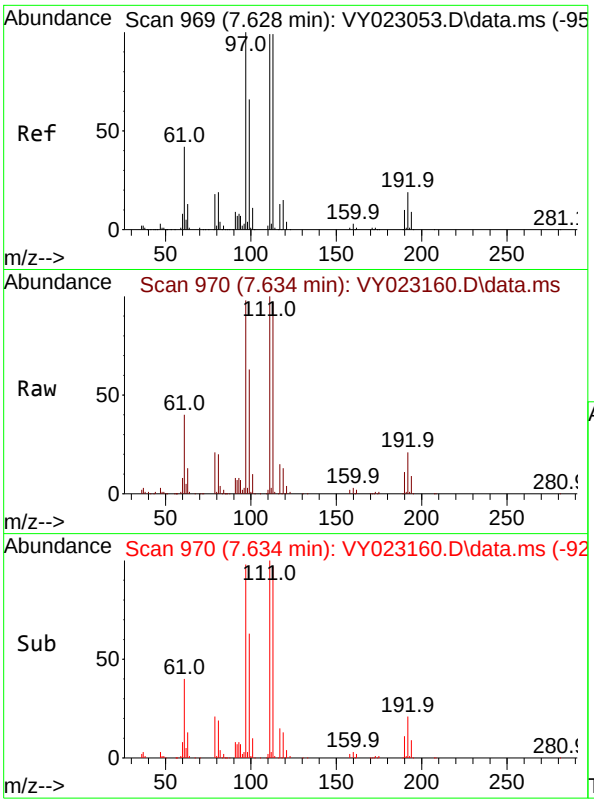


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



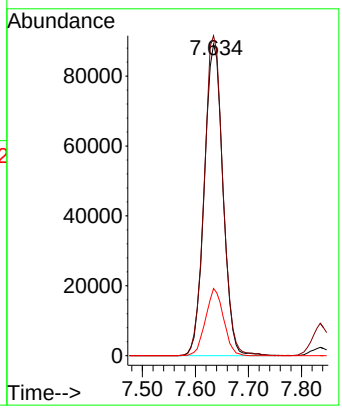


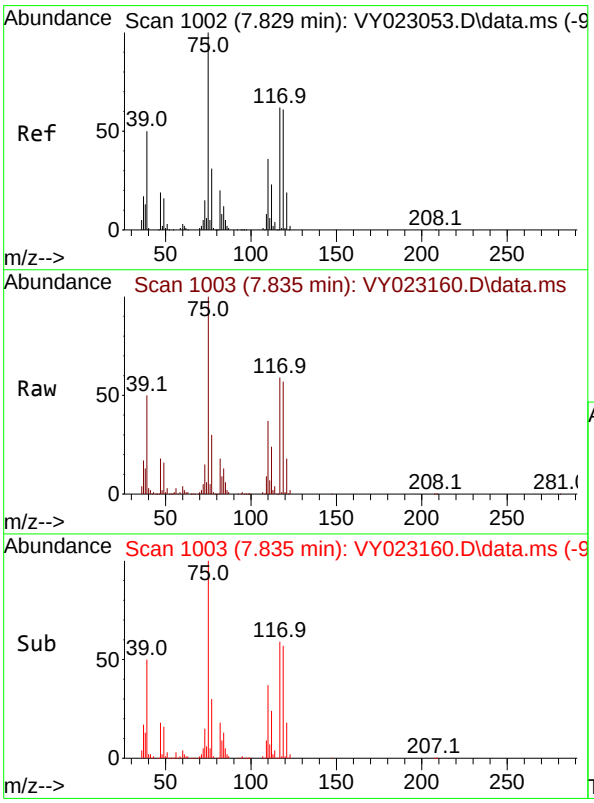
#35
Dibromofluoromethane
Concen: 49.903 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

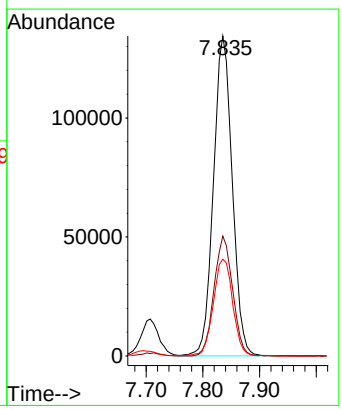


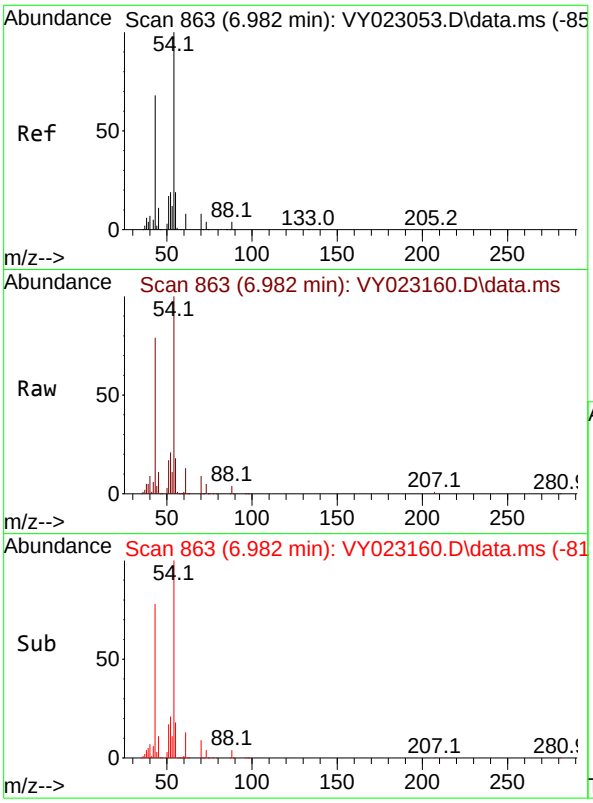


#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



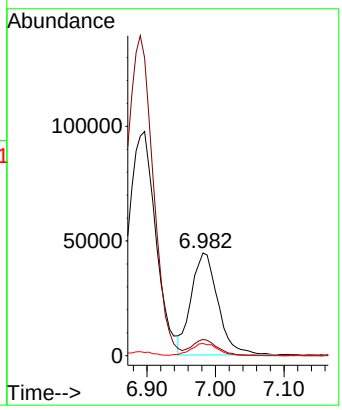


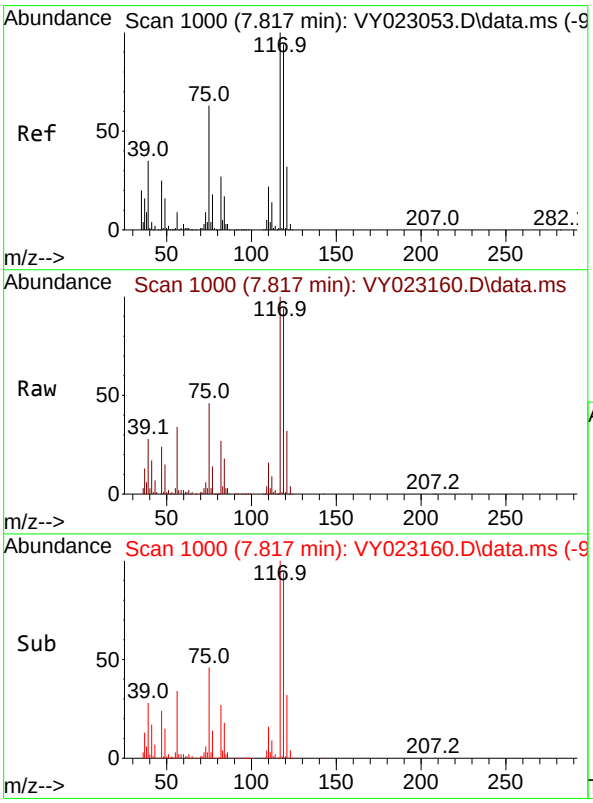
#37
Ethyl Acetate
Concen: 44.444 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

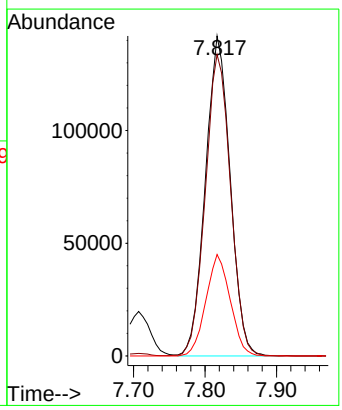


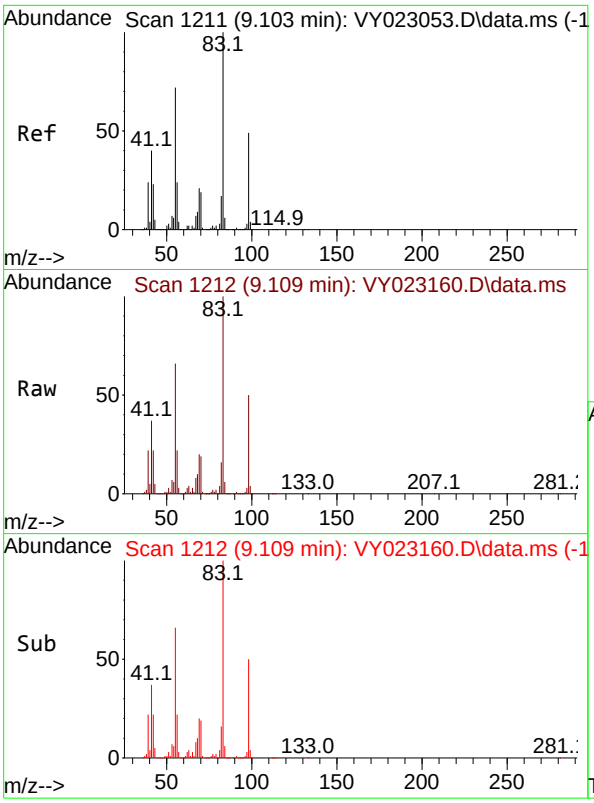


#38
Carbon Tetrachloride
Concen: 48.612 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



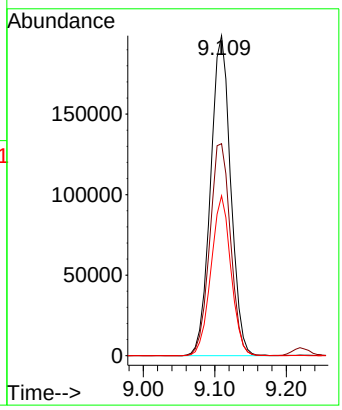


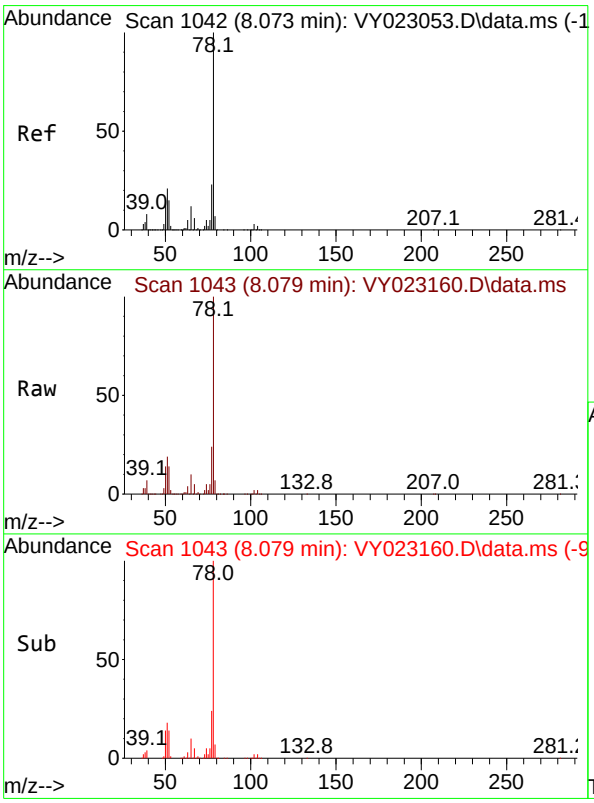
#39
Methylcyclohexane
Concen: 45.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

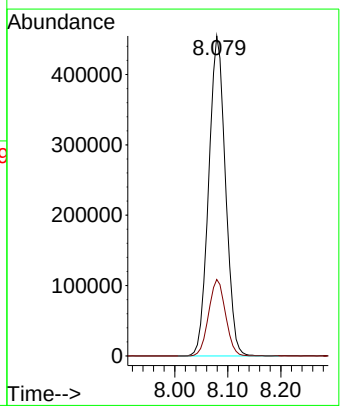


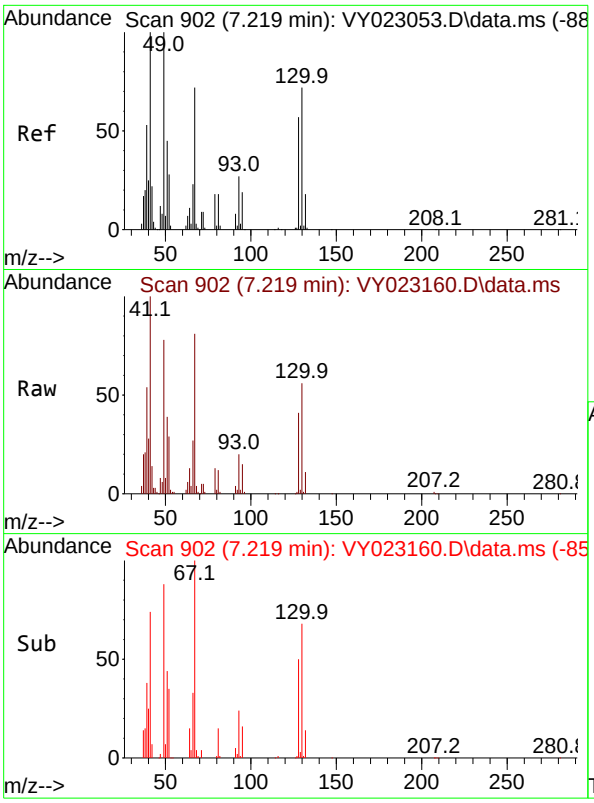


#40
Benzene
Concen: 50.170 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 78 Resp: 999546

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0



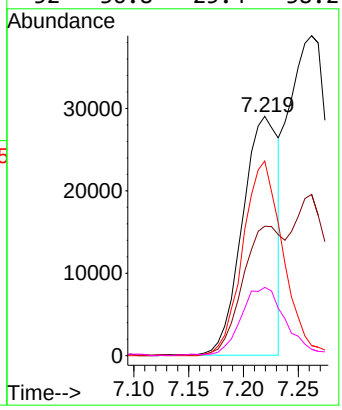


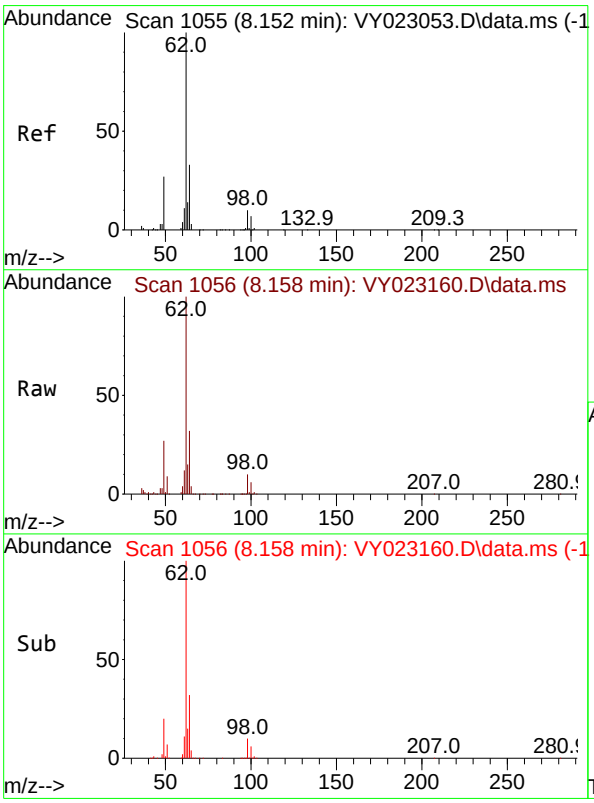
#41
Methacrylonitrile
Concen: 41.877 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

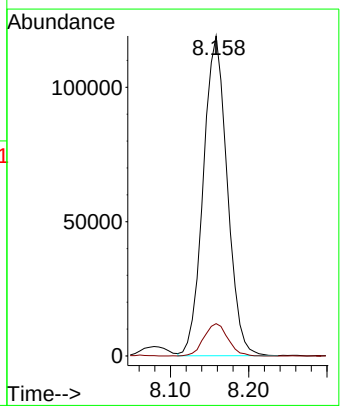


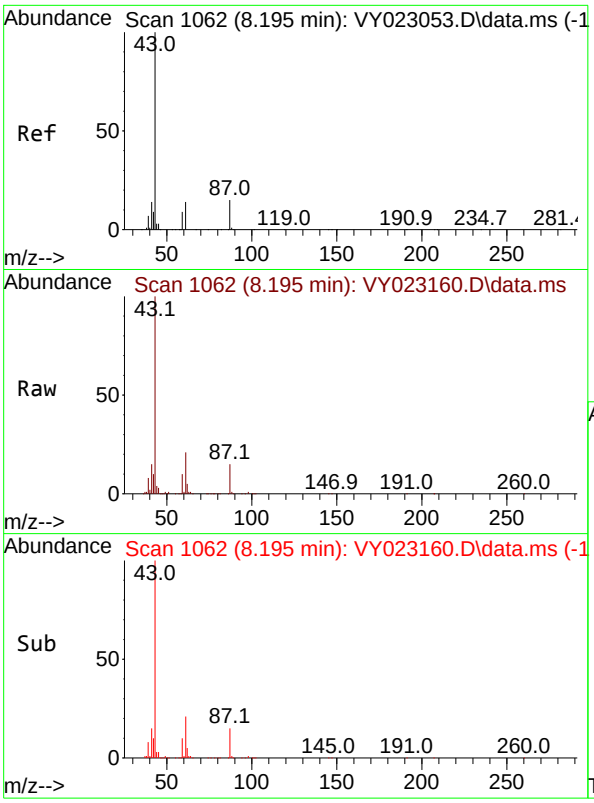


#42
1,2-Dichloroethane
Concen: 48.835 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 253049

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	20.6



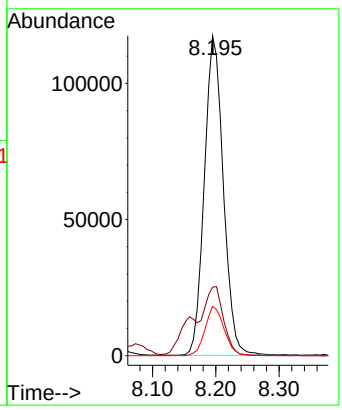


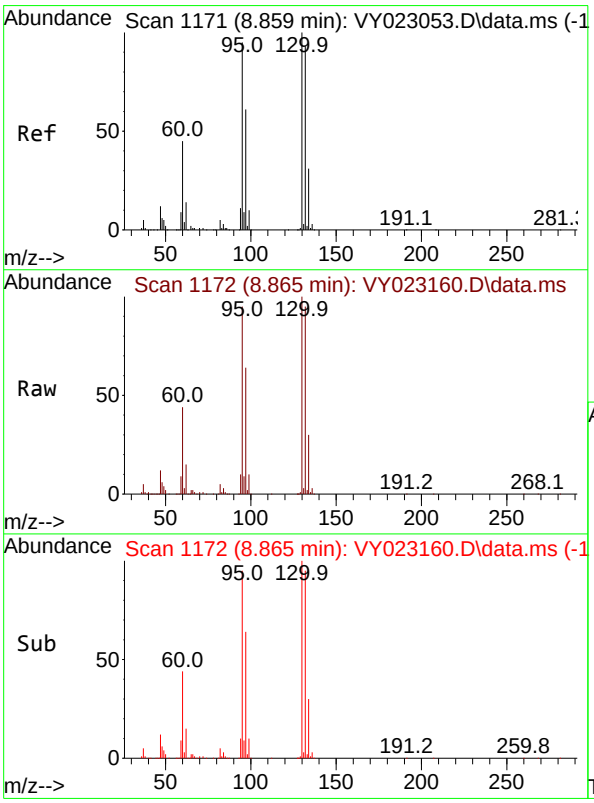
#43
Isopropyl Acetate
Concen: 44.694 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

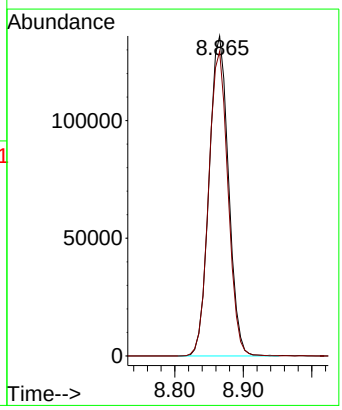


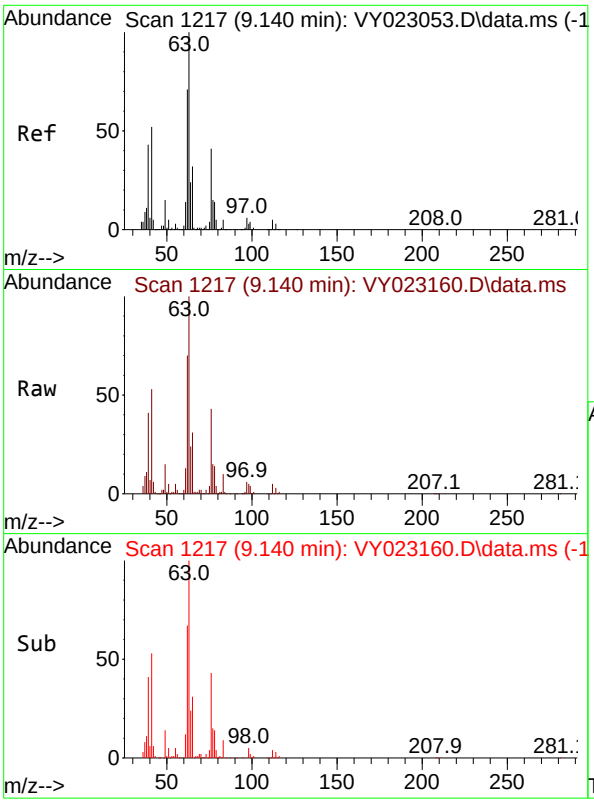


#44
Trichloroethene
Concen: 51.782 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:130 Resp: 266609

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	190.2



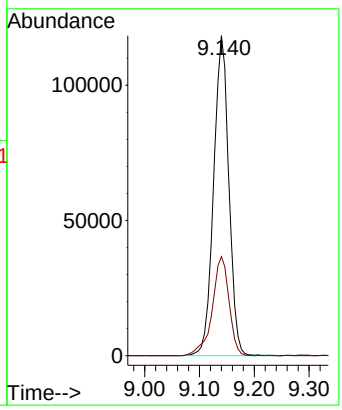


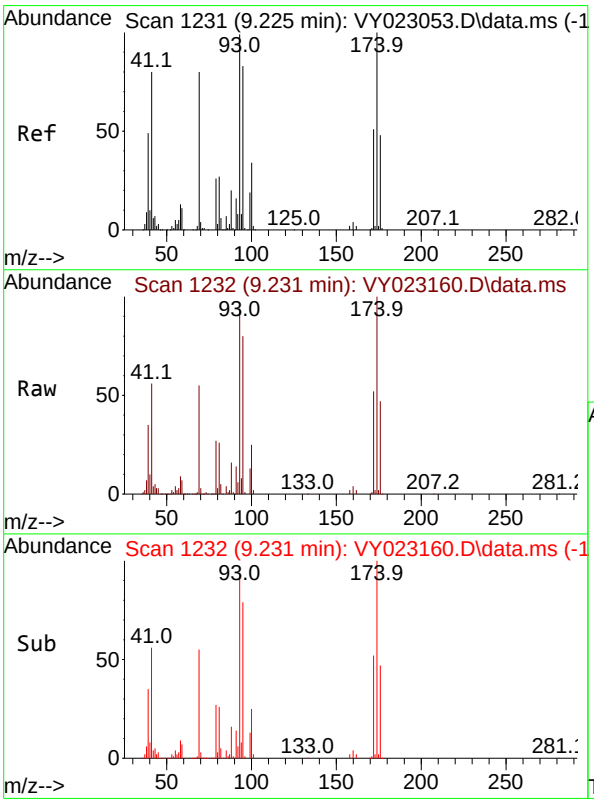
#45
1,2-Dichloropropane
Concen: 49.829 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 228425

Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.3	37.9

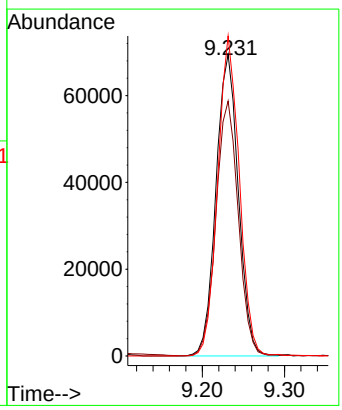


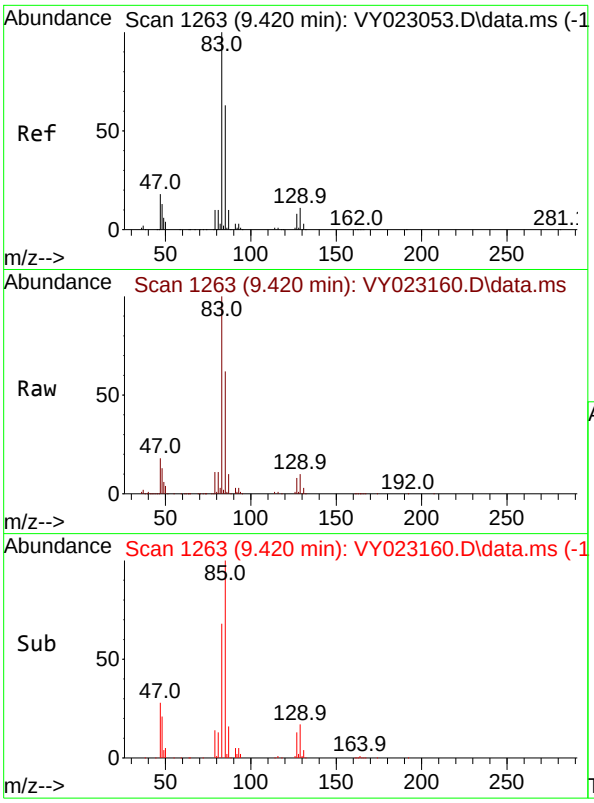


#46
Dibromomethane
Concen: 49.971 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



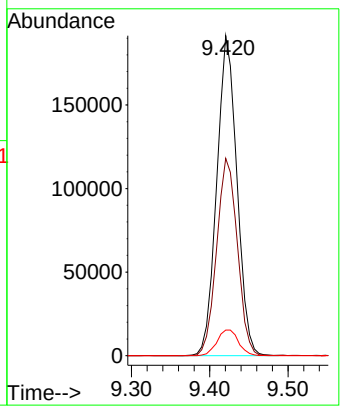


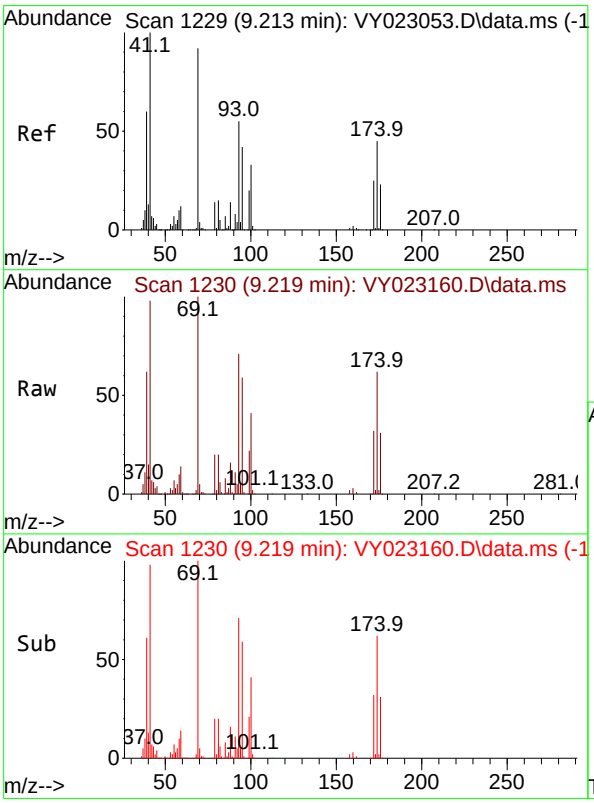
#47
Bromodichloromethane
Concen: 50.703 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

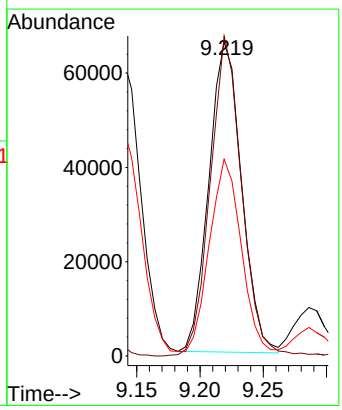


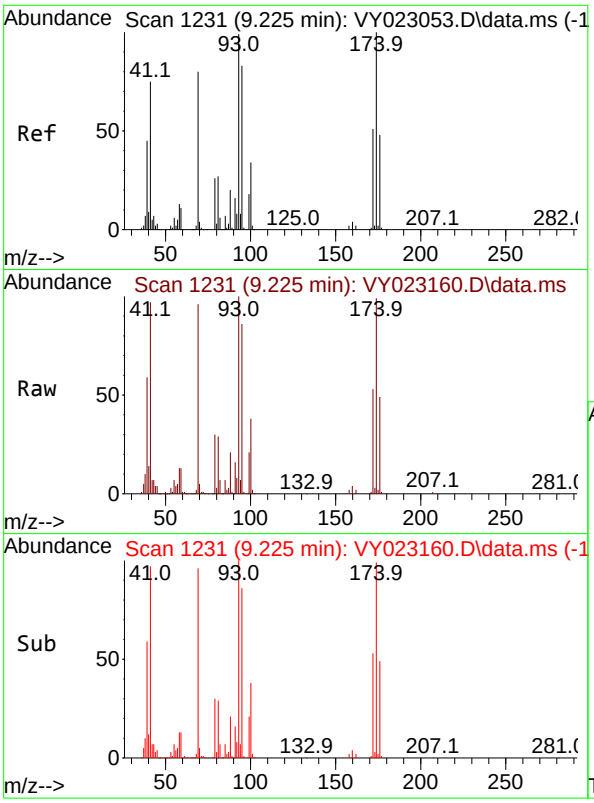


#48
Methyl methacrylate
Concen: 45.021 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



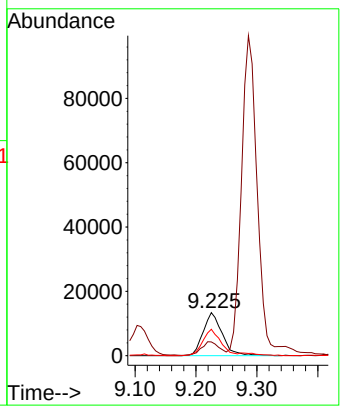


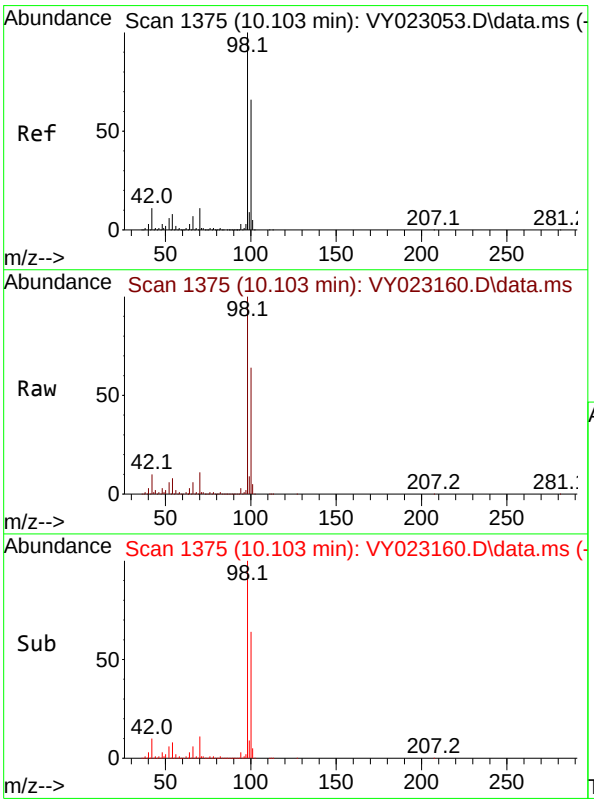
#49
1,4-Dioxane
Concen: 946.444 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

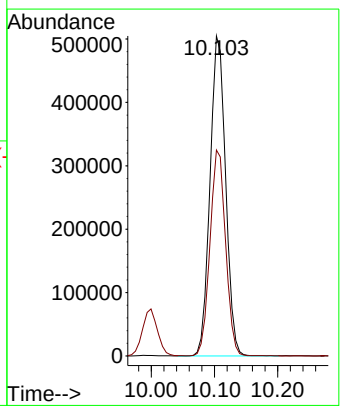


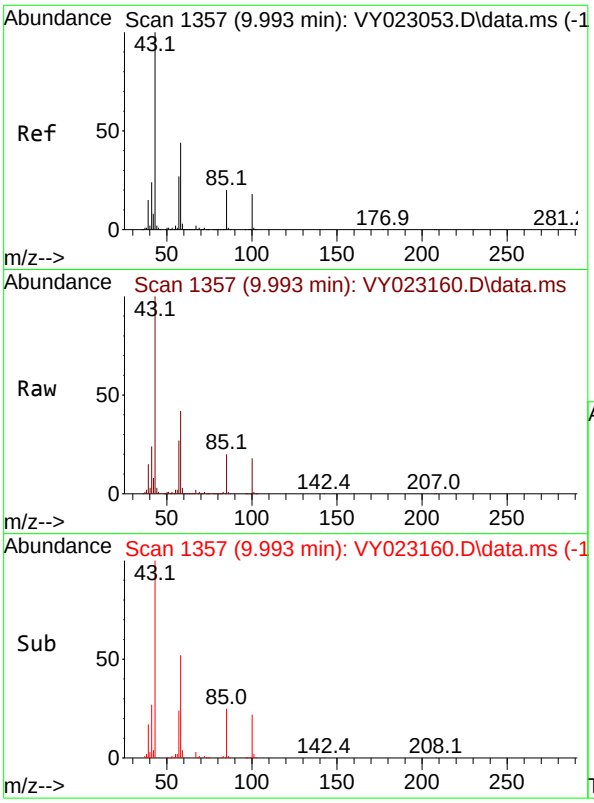


#50
Toluene-d8
Concen: 50.853 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 98 Resp: 864097

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.3	78.5



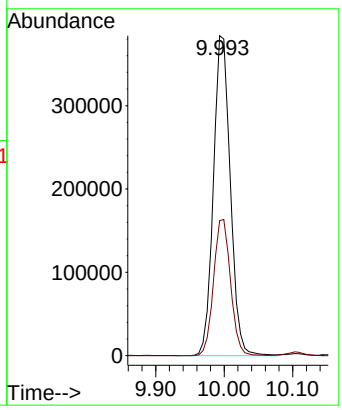


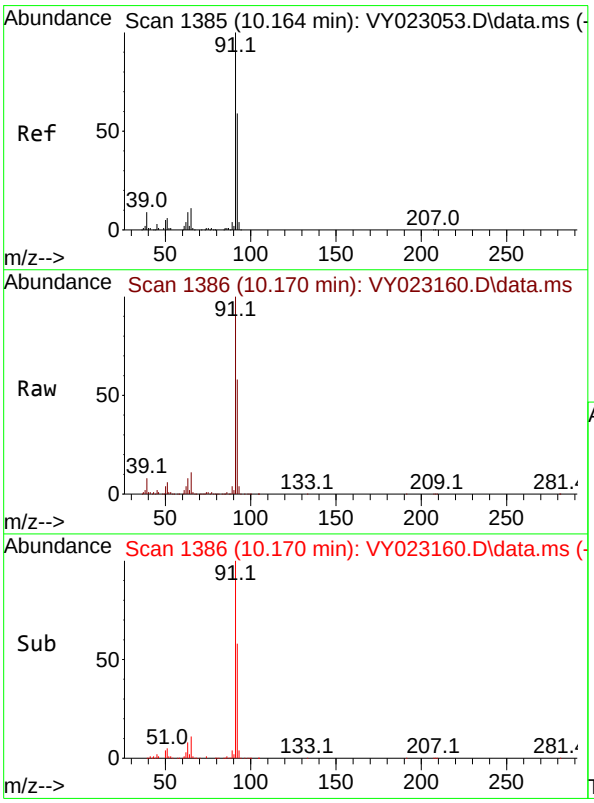
#51
4-Methyl-2-Pentanone
Concen: 231.971 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 656710

Ion	Ratio	Lower	Upper
43	100		
58	42.9	33.5	50.3

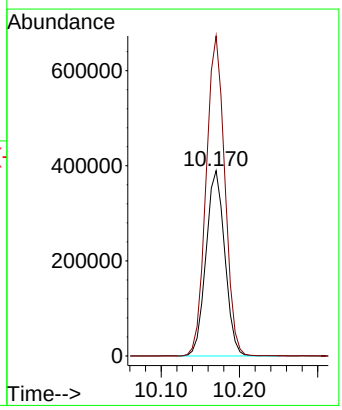


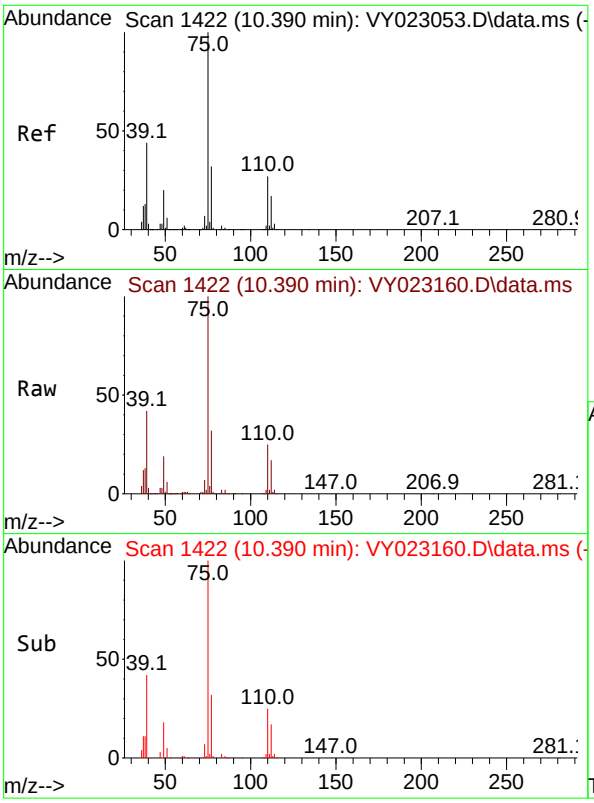


#52
Toluene
Concen: 51.179 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 92 Resp: 647611

Ion	Ratio	Lower	Upper
92	100		
91	171.9	136.4	204.6



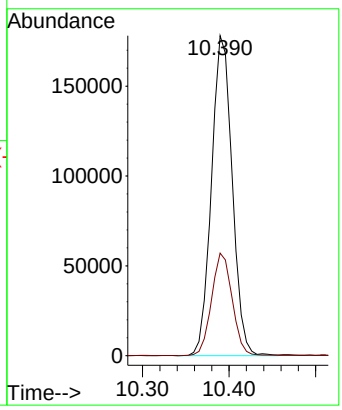


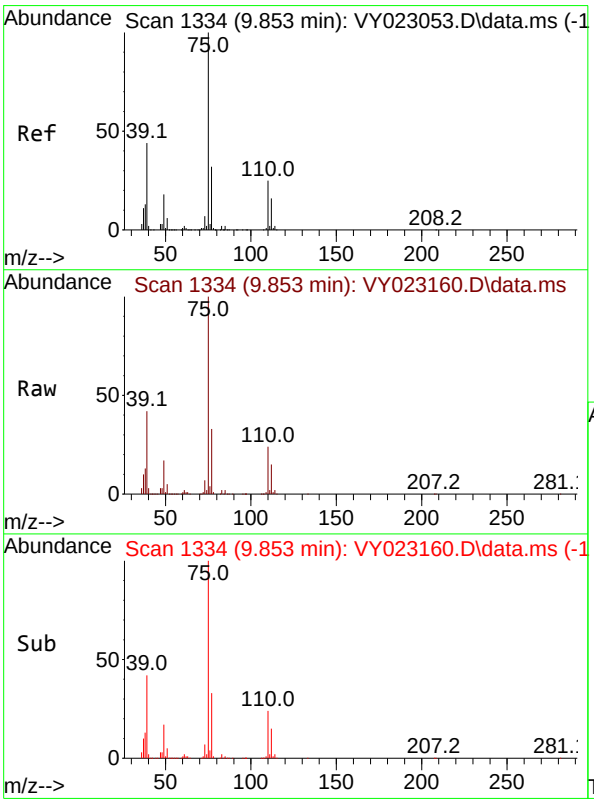
#53
t-1,3-Dichloropropene
Concen: 48.297 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 296104

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.7	38.5

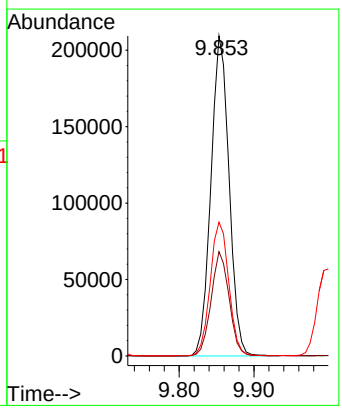


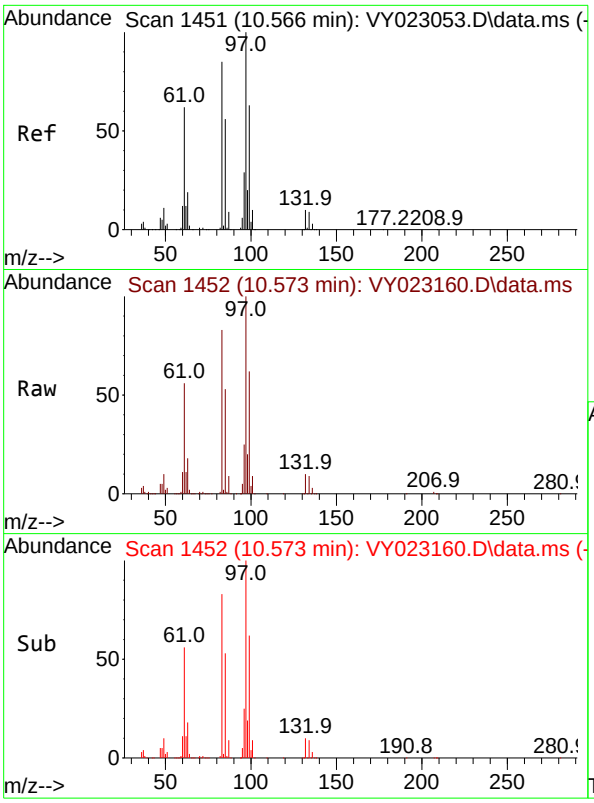


#54
cis-1,3-Dichloropropene
Concen: 48.751 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



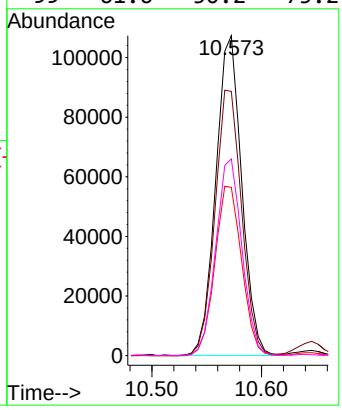


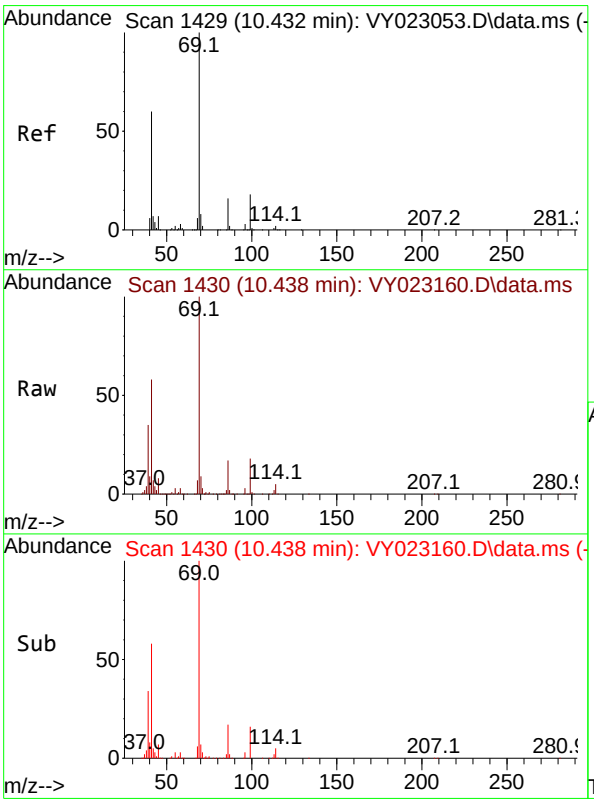
#55
1,1,2-Trichloroethane
Concen: 50.180 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

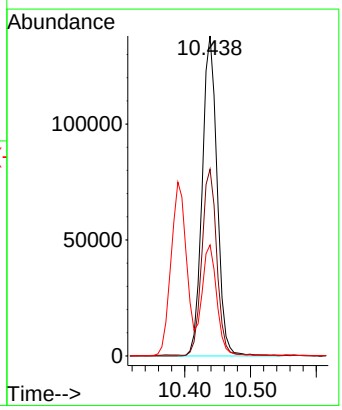


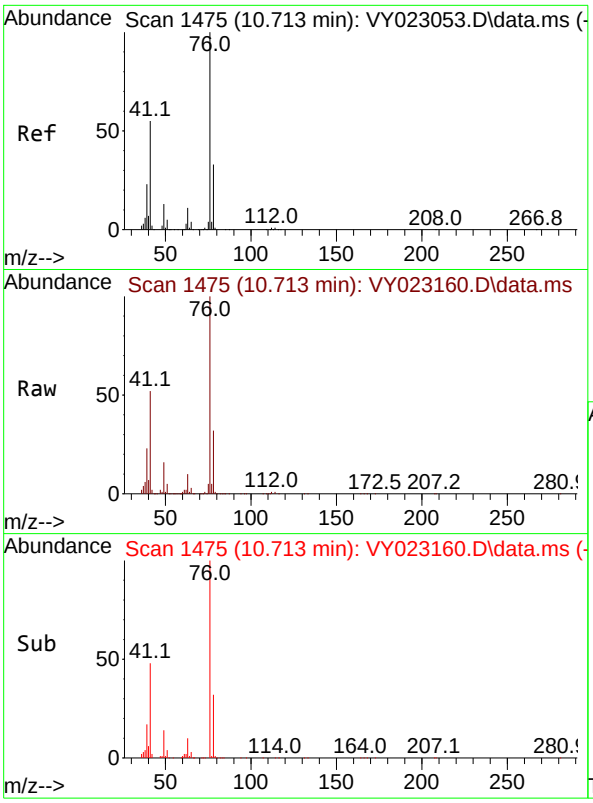


#56
Ethyl methacrylate
Concen: 48.375 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



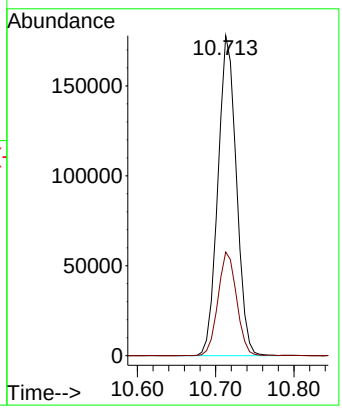


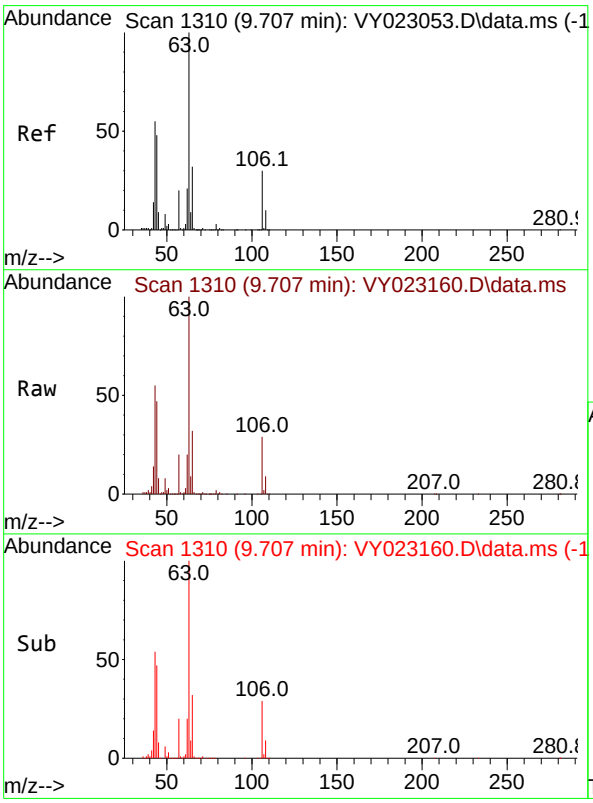
#57
1,3-Dichloropropane
Concen: 48.952 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 292293

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.0	39.0

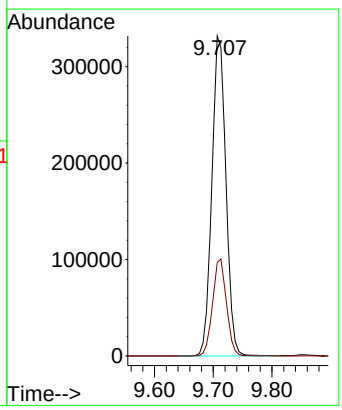


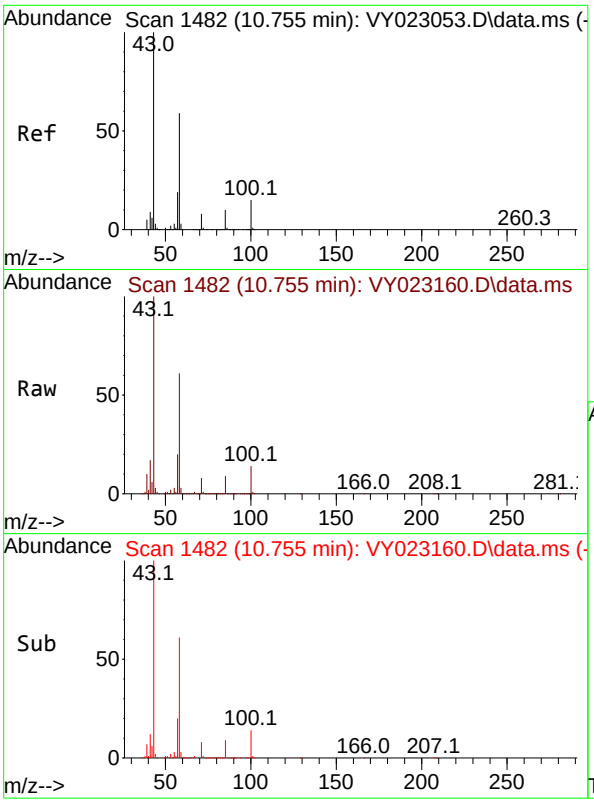


#58
2-Chloroethyl Vinyl ether
Concen: 259.330 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 551100

Ion	Ratio	Lower	Upper
63	100		
106	29.9	23.2	34.8



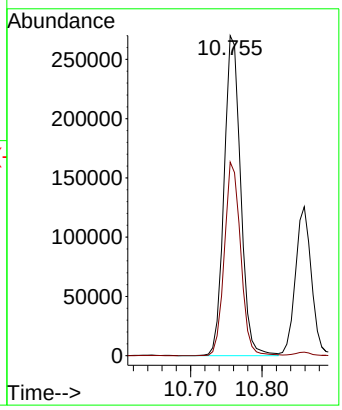


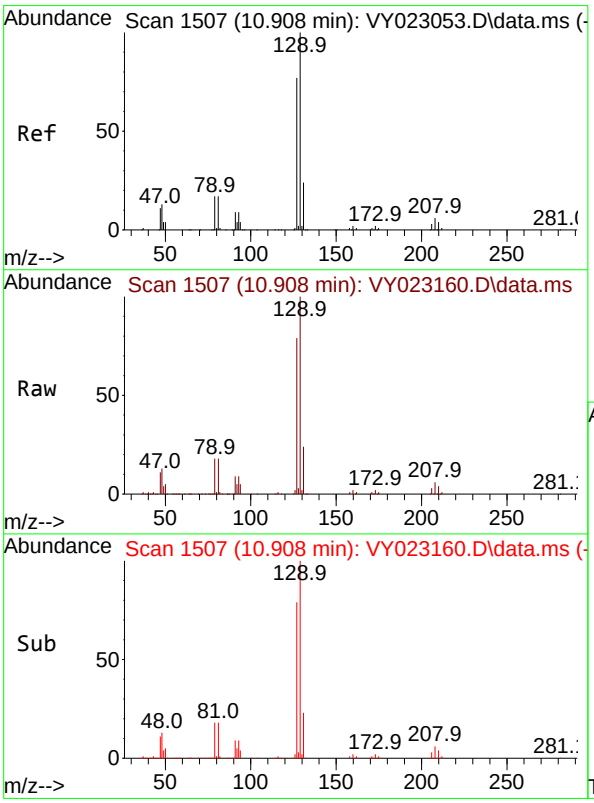
#59
2-Hexanone
Concen: 225.681 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 435049

Ion	Ratio	Lower	Upper
43	100		
58	59.3	29.5	88.5

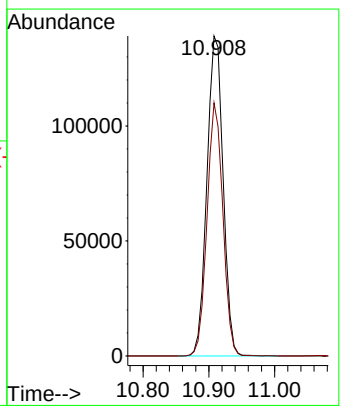


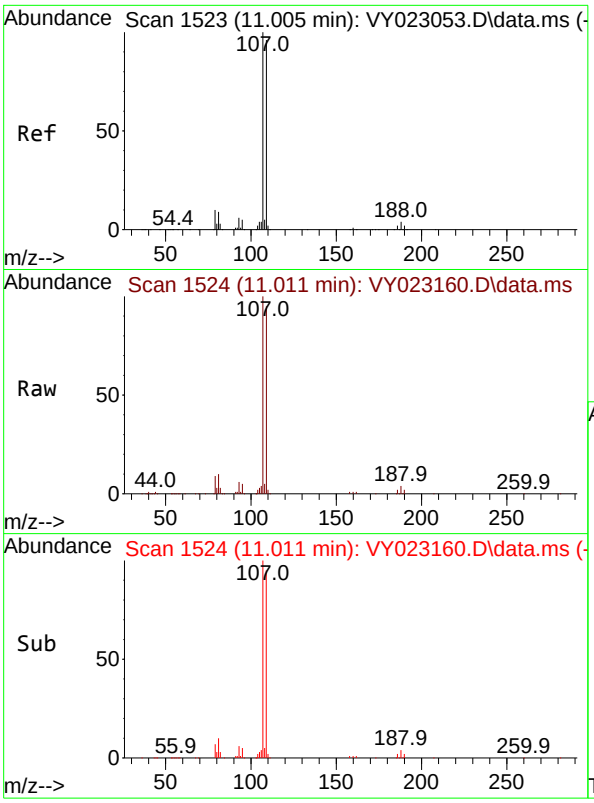


#60
Dibromochloromethane
Concen: 51.365 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:129 Resp: 238623

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.5	115.5



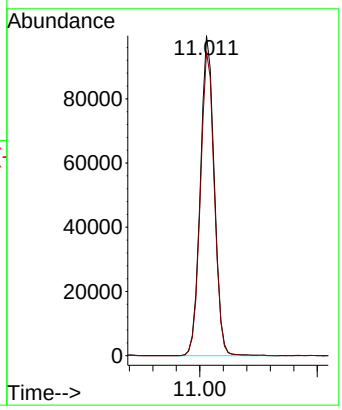


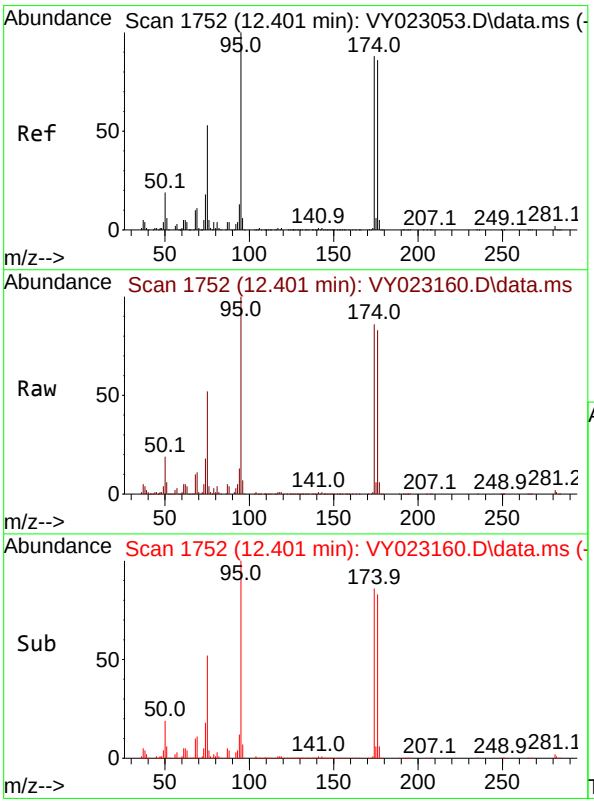
#61
1,2-Dibromoethane
Concen: 49.588 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 164095

Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.6	113.4

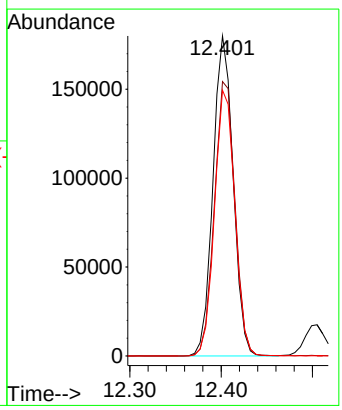


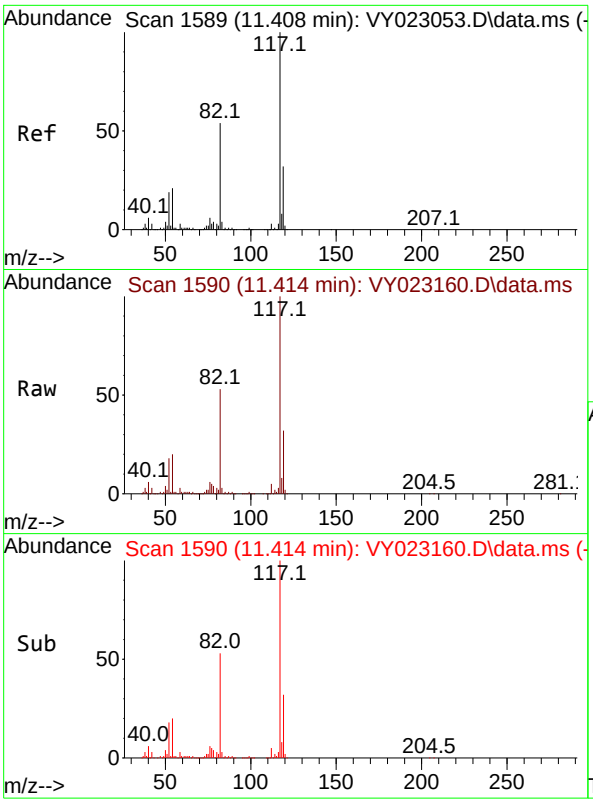


#62
4-Bromofluorobenzene
Concen: 50.308 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



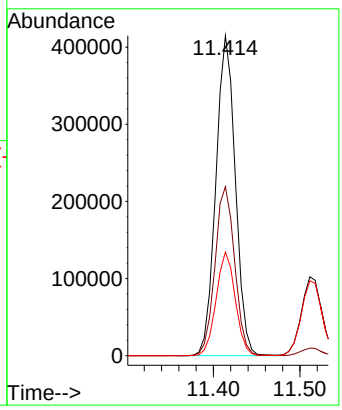


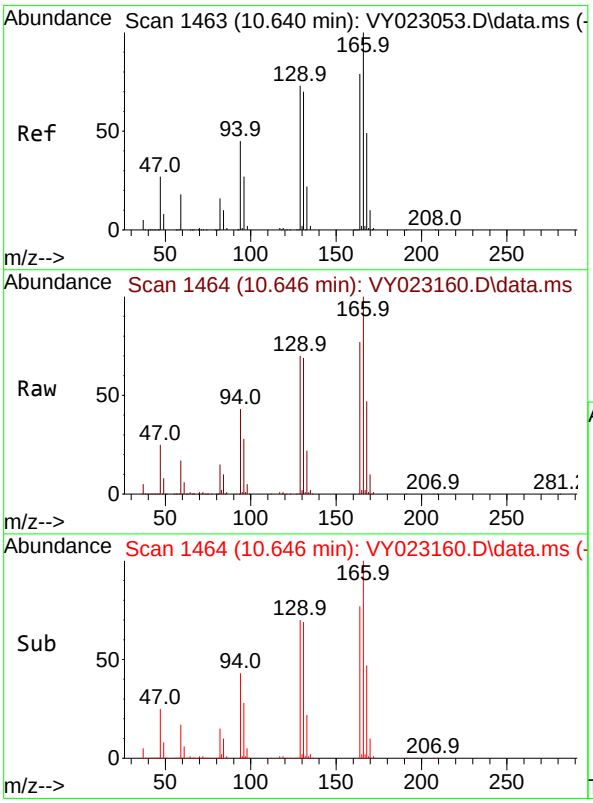
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

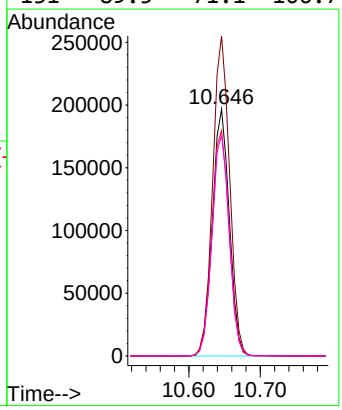


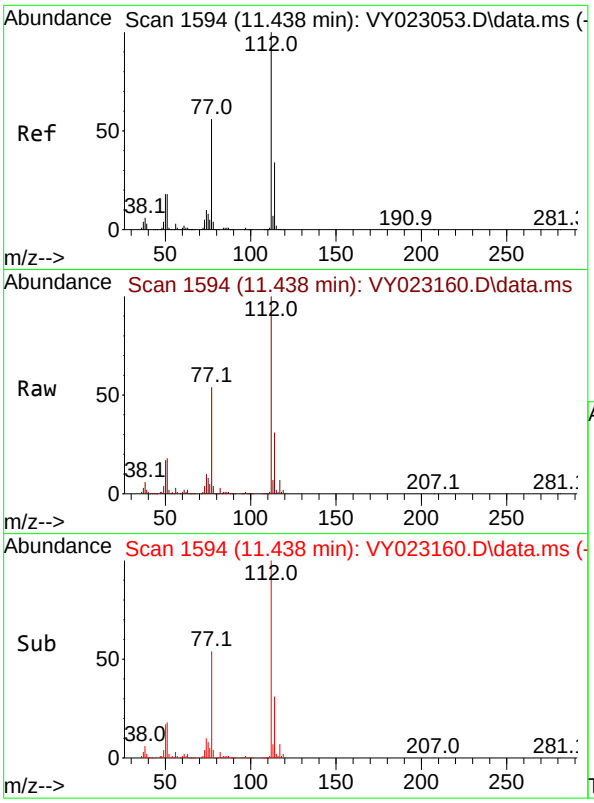


#64
Tetrachloroethene
Concen: 56.055 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



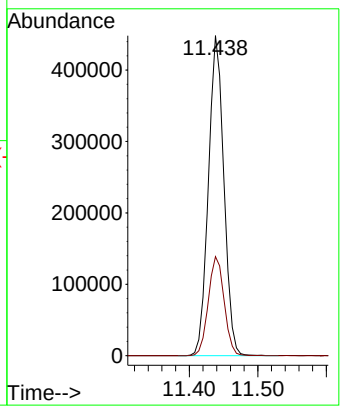


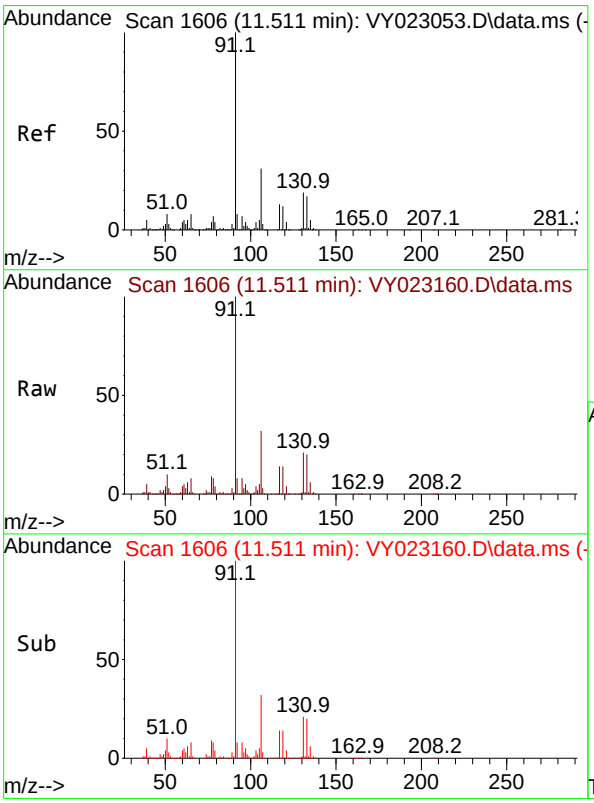
#65
Chlorobenzene
Concen: 50.434 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 704107

Ion	Ratio	Lower	Upper
112	100		
114	31.0	27.0	40.4

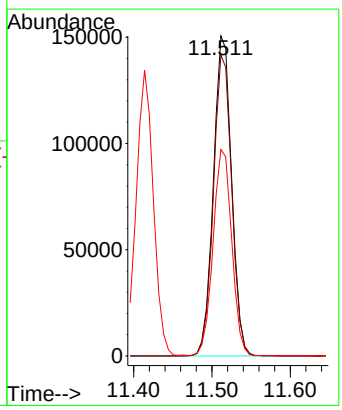


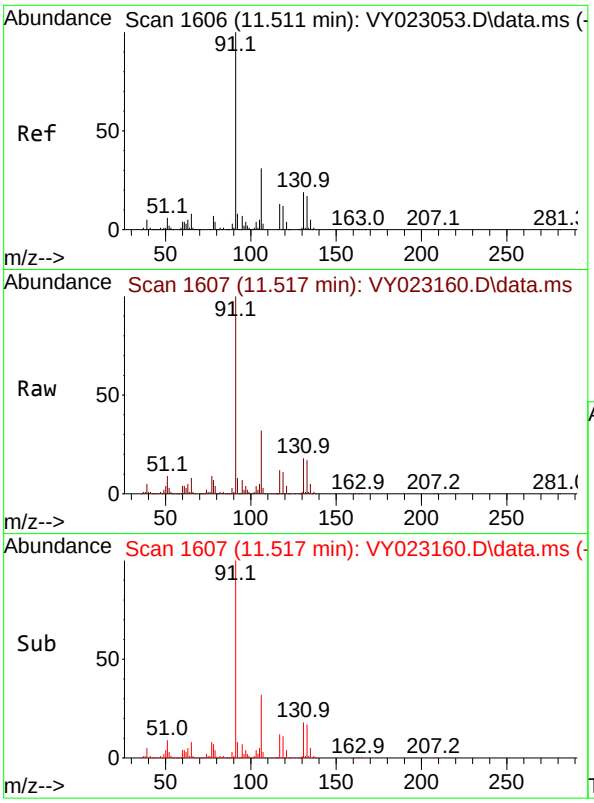


#66
1,1,1,2-Tetrachloroethane
Concen: 51.411 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



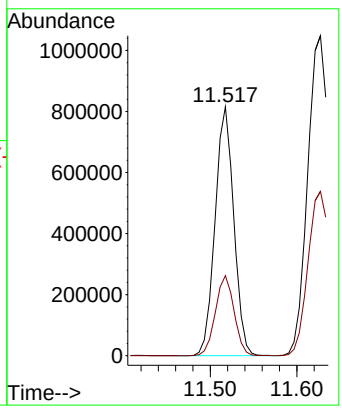


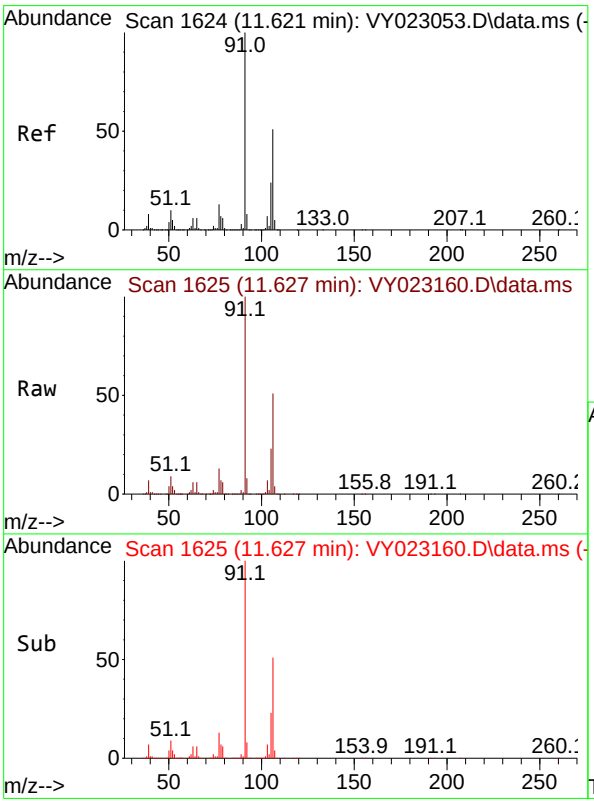
#67
Ethyl Benzene
Concen: 50.888 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 1222605

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.0	37.4

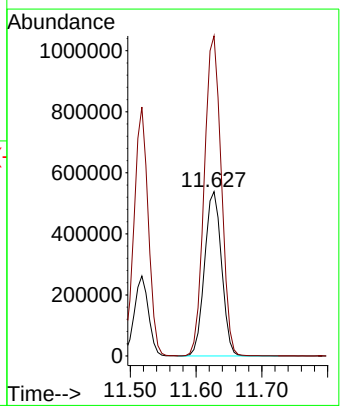


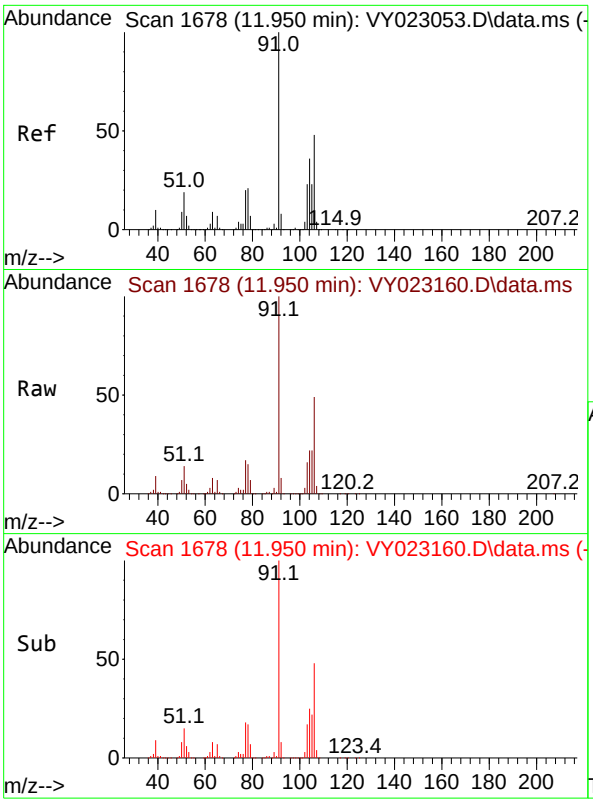


#68
m/p-Xylenes
Concen: 103.051 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:106 Resp: 966978

Ion	Ratio	Lower	Upper
106	100		
91	194.8	158.6	238.0



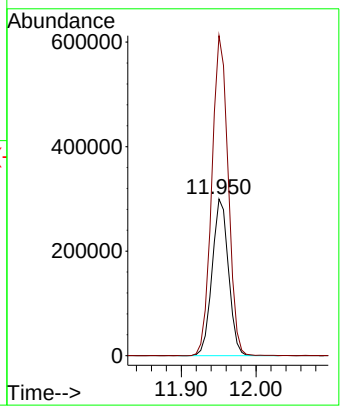


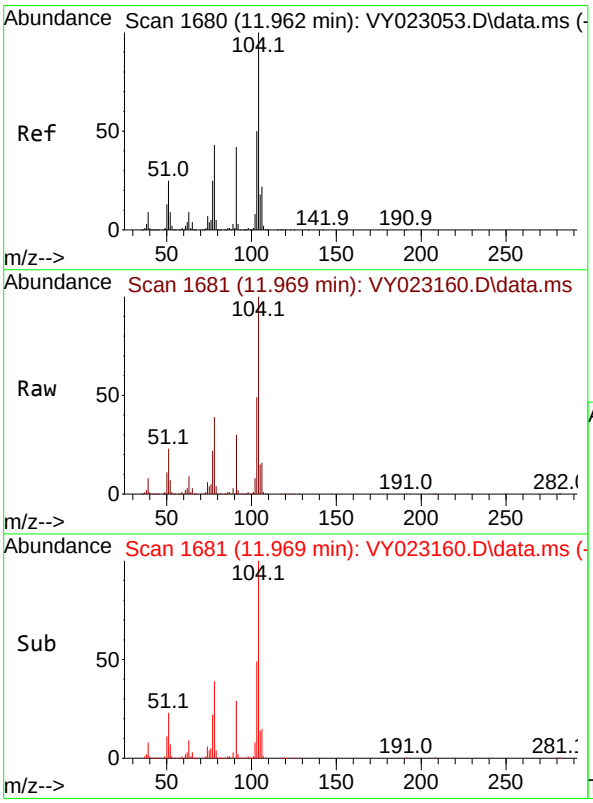
#69
o-Xylene
Concen: 51.799 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 455236

Ion	Ratio	Lower	Upper
106	100		
91	204.7	103.2	309.4

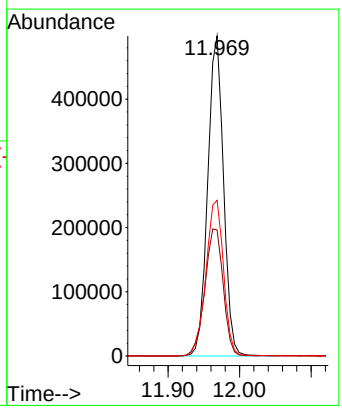


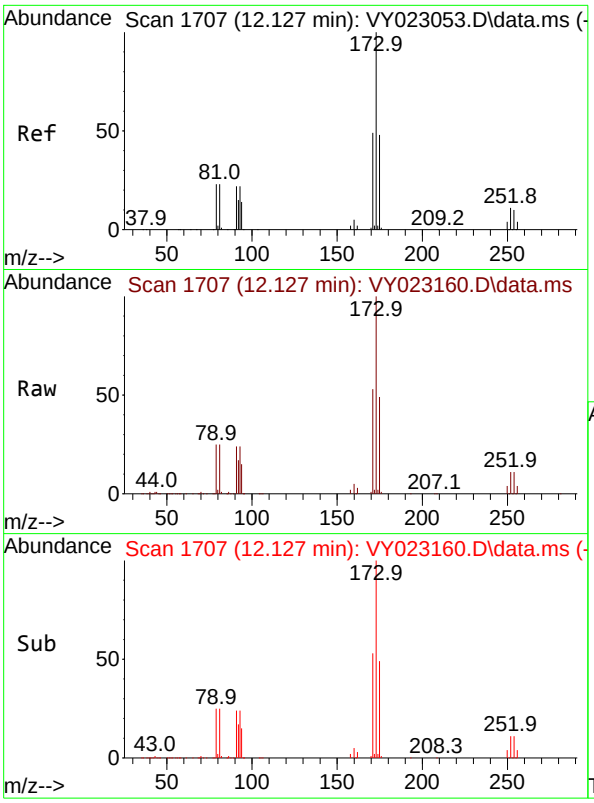


#70
Styrene
Concen: 53.132 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



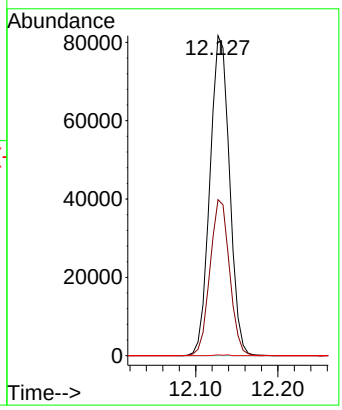


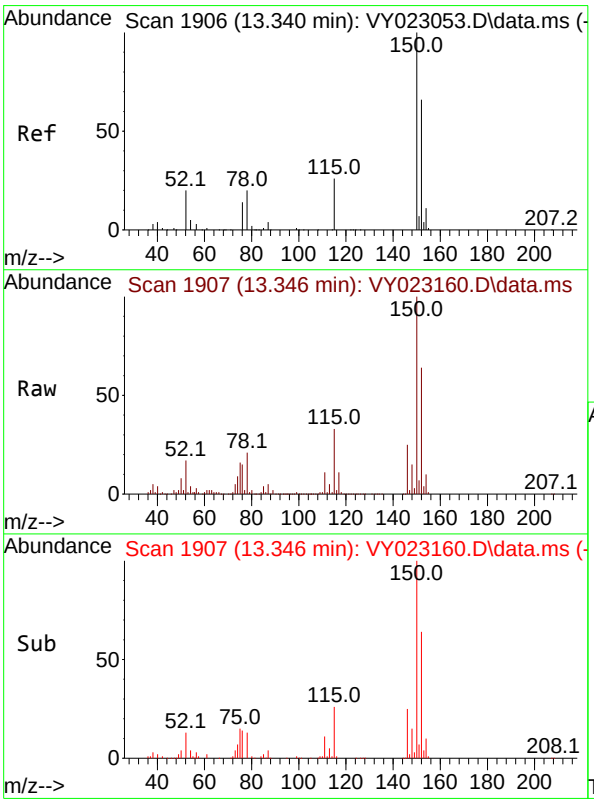
#71
Bromoform
Concen: 48.980 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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#

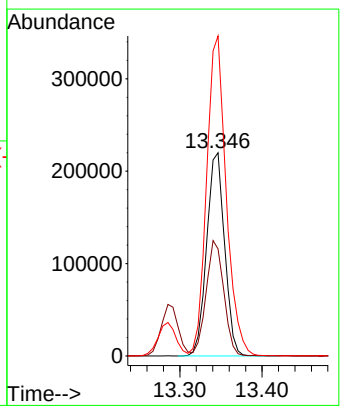


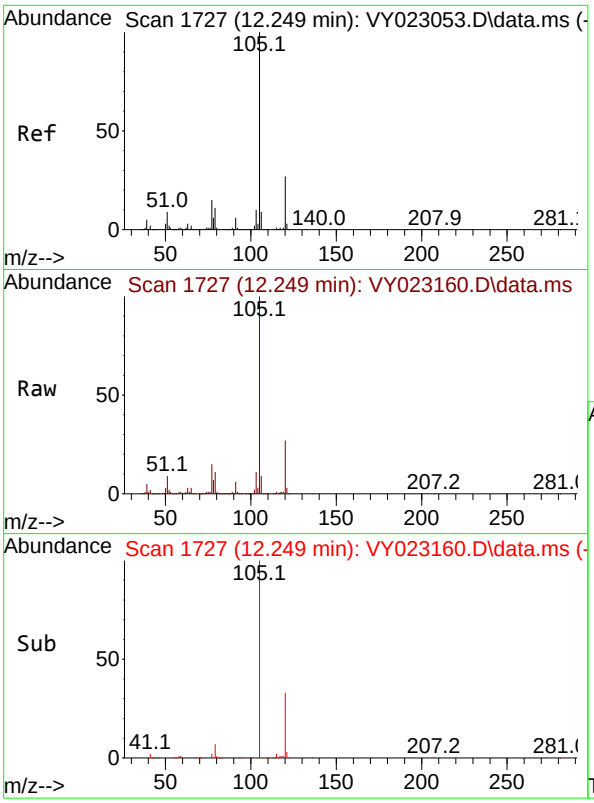


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



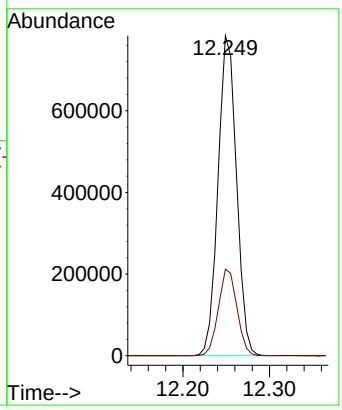


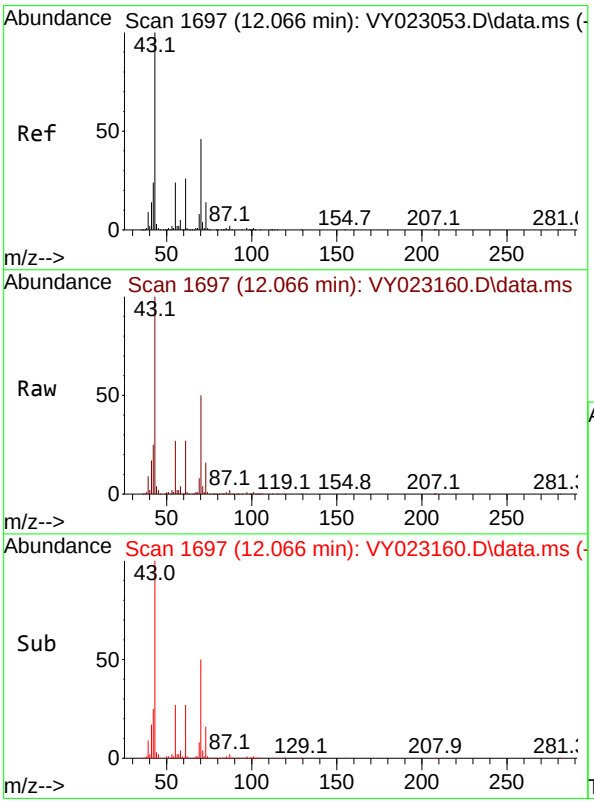
#73
Isopropylbenzene
Concen: 49.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1161331

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.4	40.2

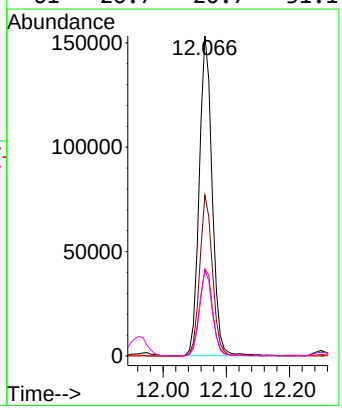


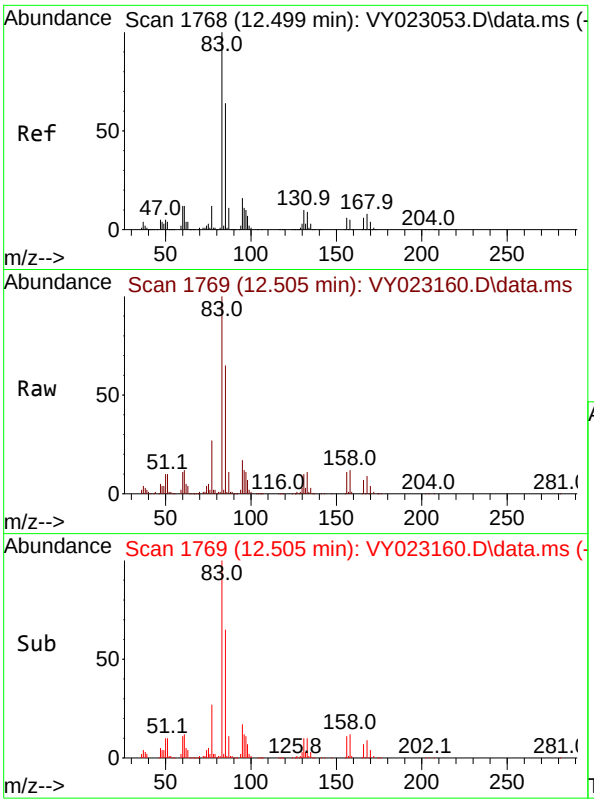


#74
N-amyl acetate
Concen: 43.613 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



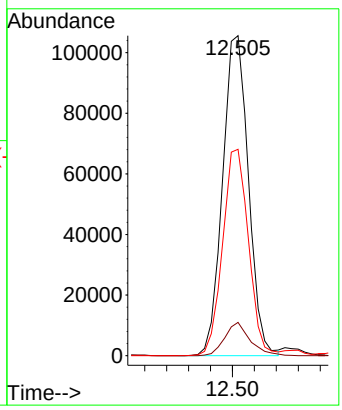


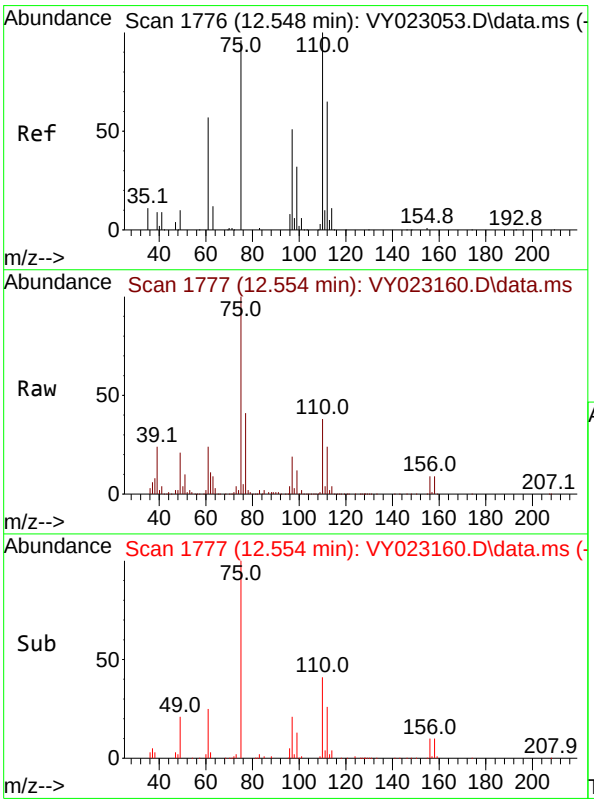
#75
1,1,2,2-Tetrachloroethane
Concen: 43.025 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

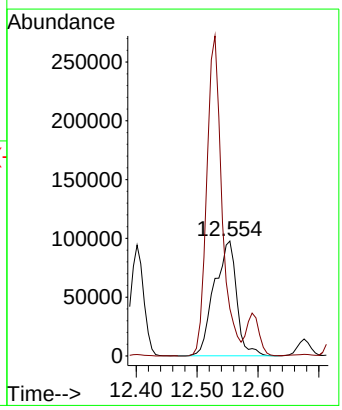


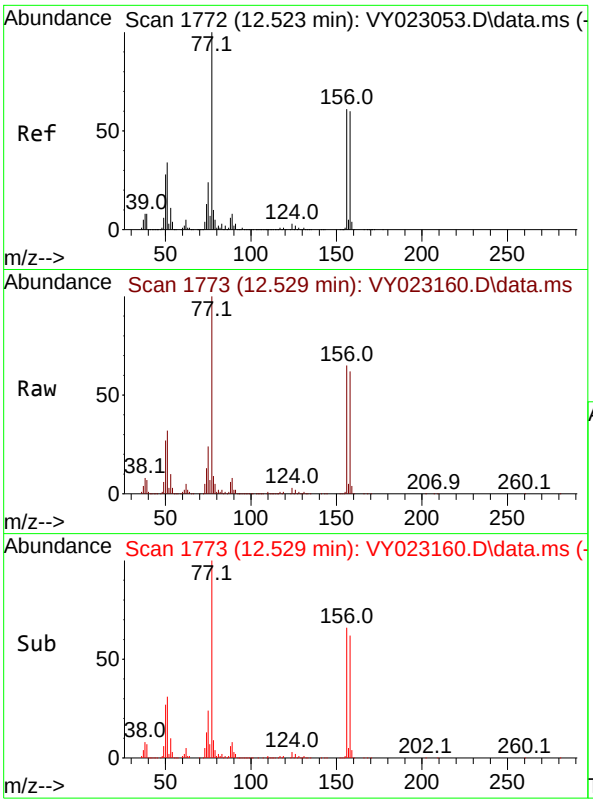


#76
1,2,3-Trichloropropane
Concen: 77.236 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 248637

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



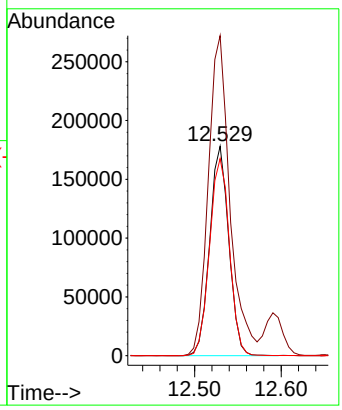


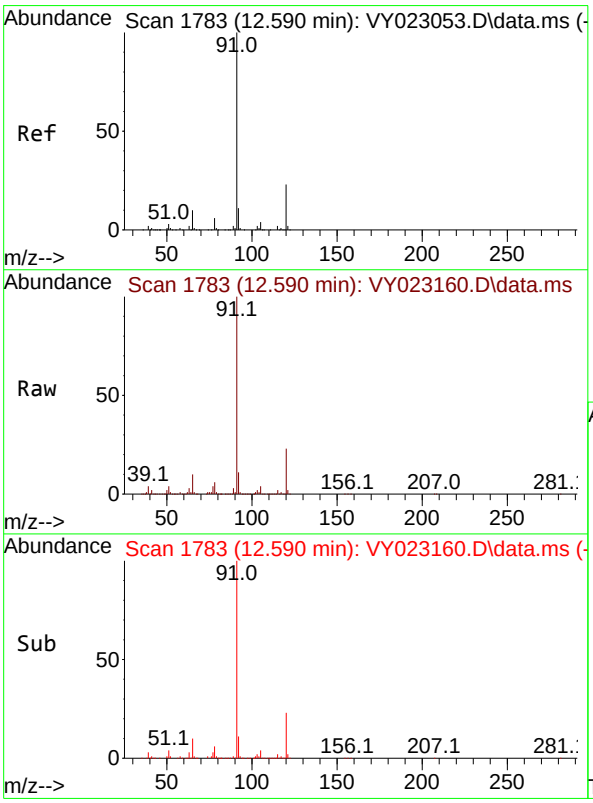
#77
Bromobenzene
Concen: 48.690 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

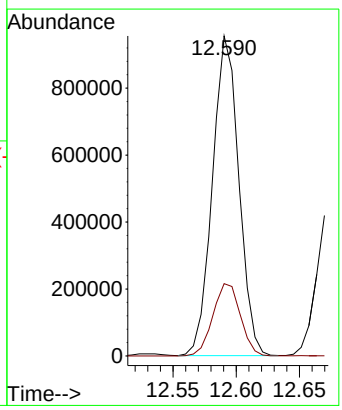


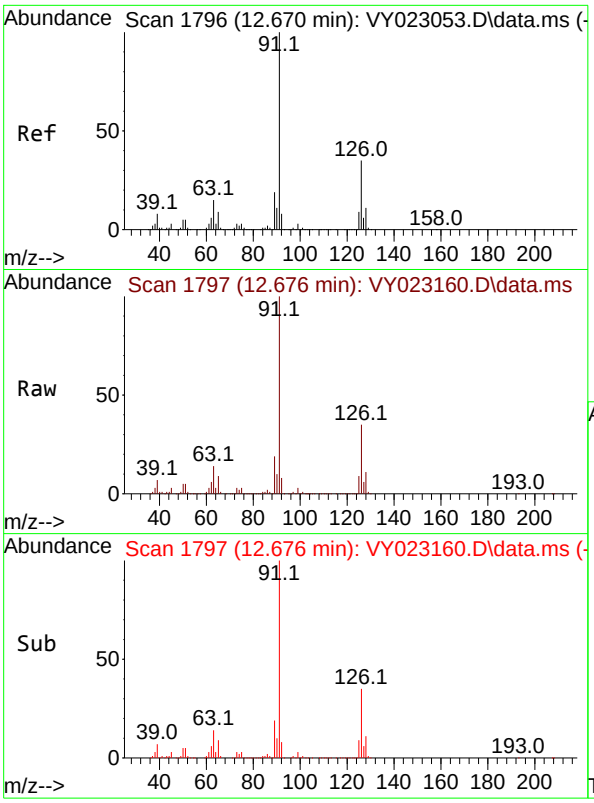


#78
n-propylbenzene
Concen: 49.502 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 1387452

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.5	34.5



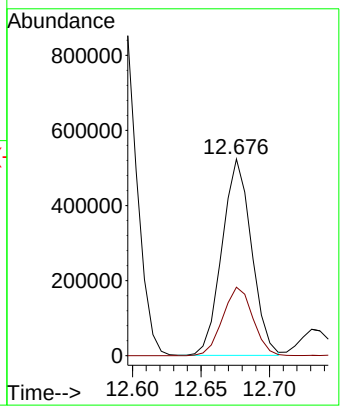


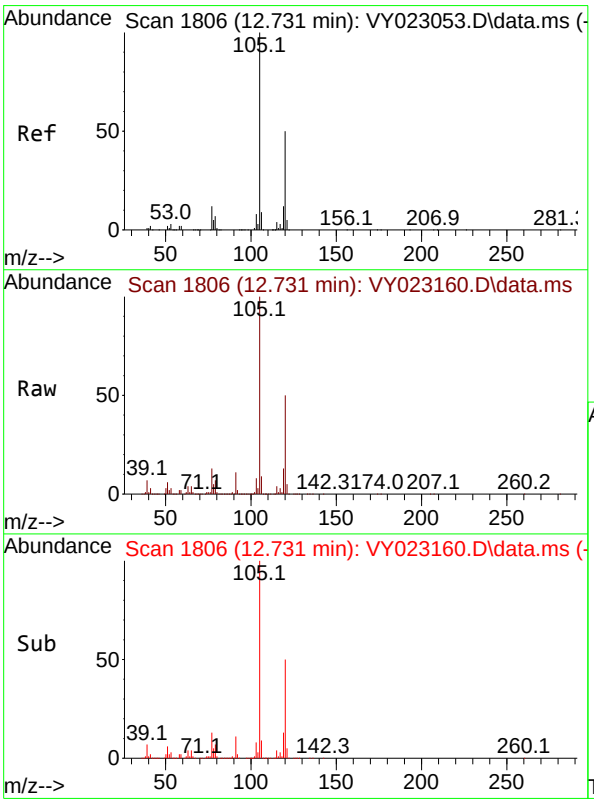
#79
2-Chlorotoluene
Concen: 48.829 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 784149

Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.4	52.3

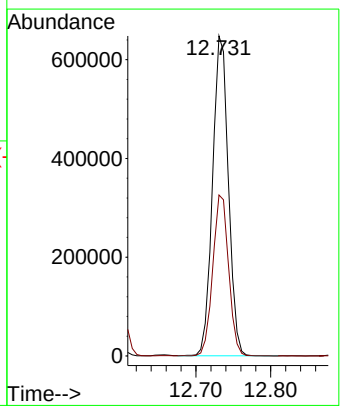


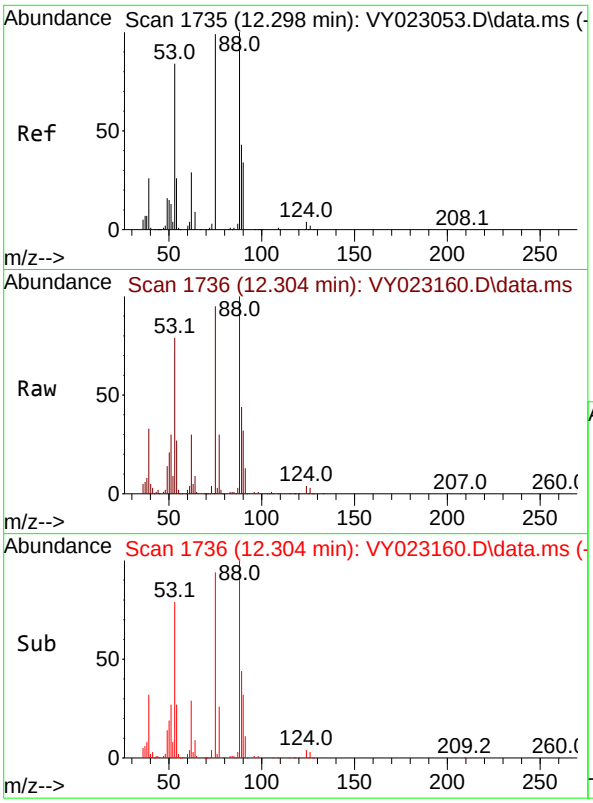


#80
1,3,5-Trimethylbenzene
Concen: 50.180 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 954748

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.8	74.4



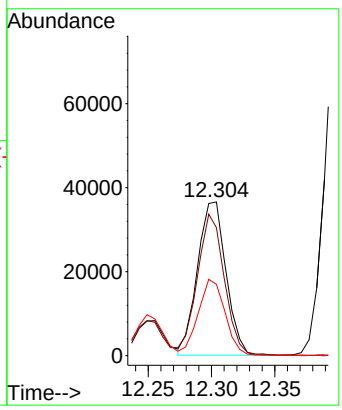


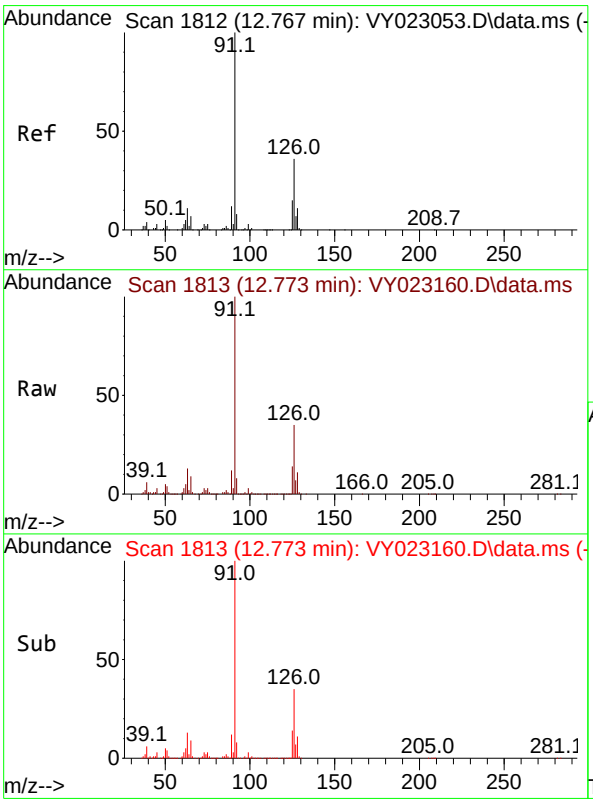
#81
trans-1,4-Dichloro-2-butene
Concen: 43.134 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

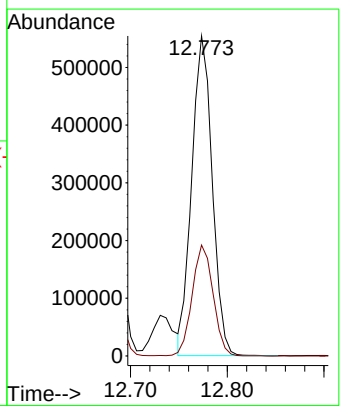


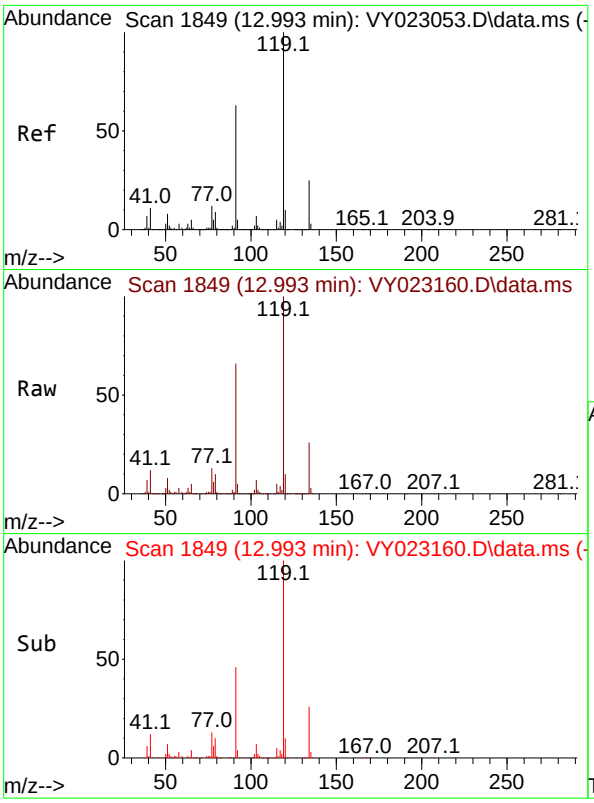


#82
4-Chlorotoluene
Concen: 48.995 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 816232

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	52.0



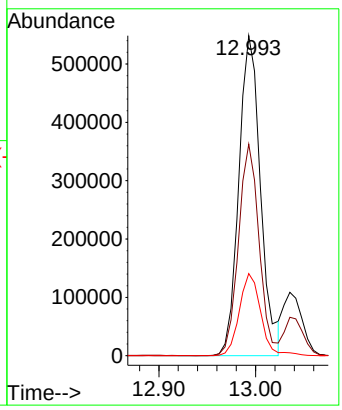


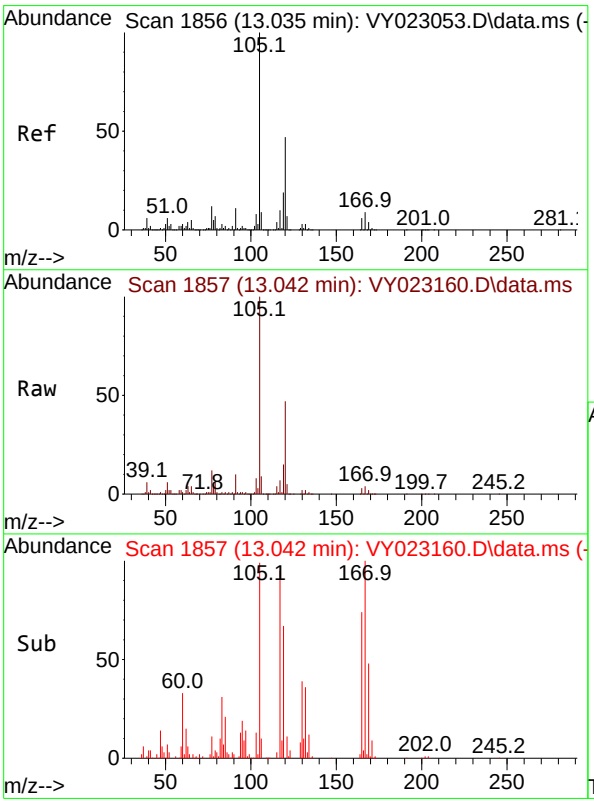
#83
tert-Butylbenzene
Concen: 49.921 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

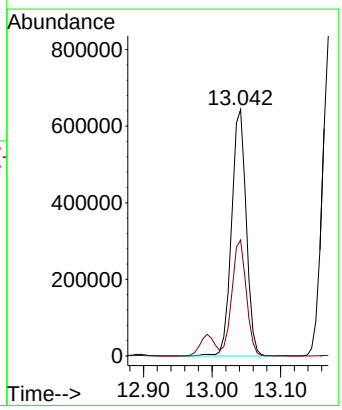


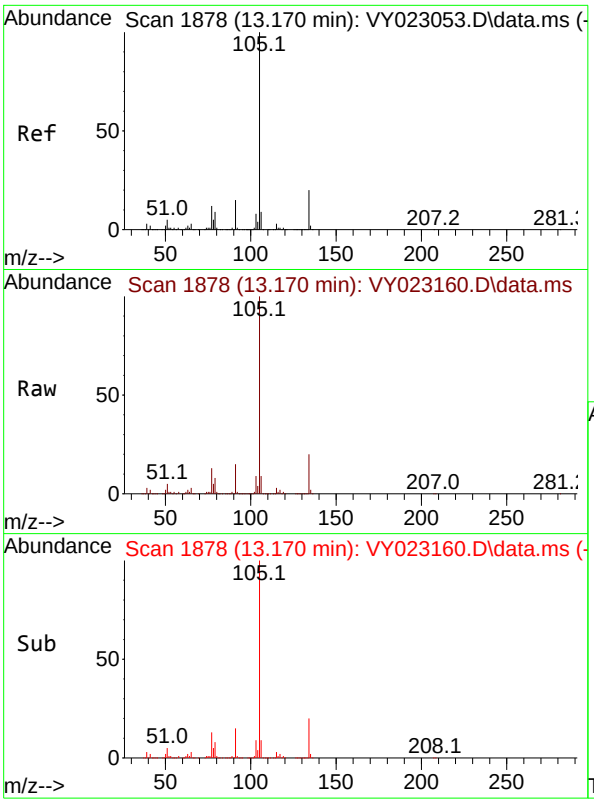


#84
1,2,4-Trimethylbenzene
Concen: 50.510 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 956661

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.0	69.0



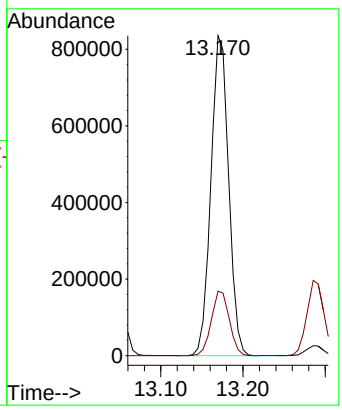


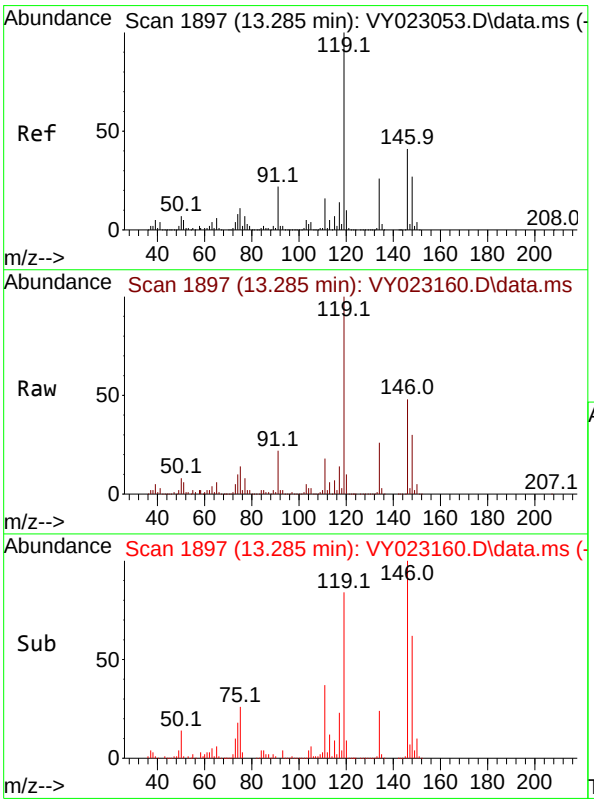
#85
sec-Butylbenzene
Concen: 49.485 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 1249164

Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.2	30.4

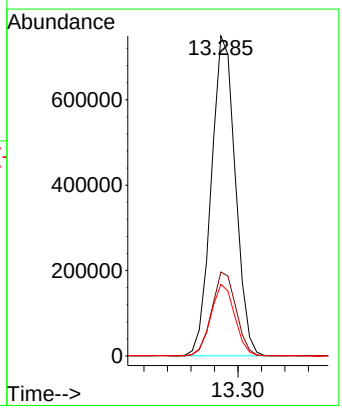


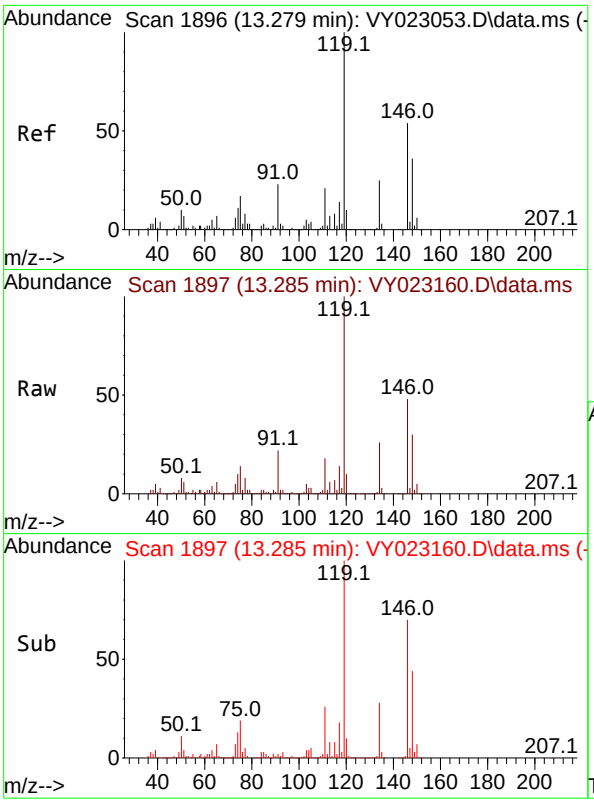


#86
p-Isopropyltoluene
Concen: 50.842 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



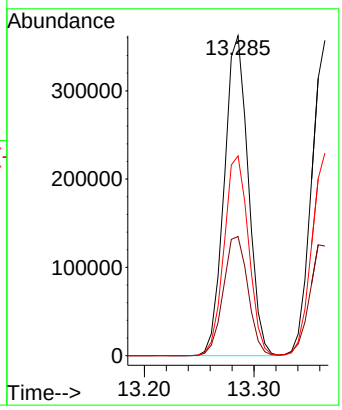


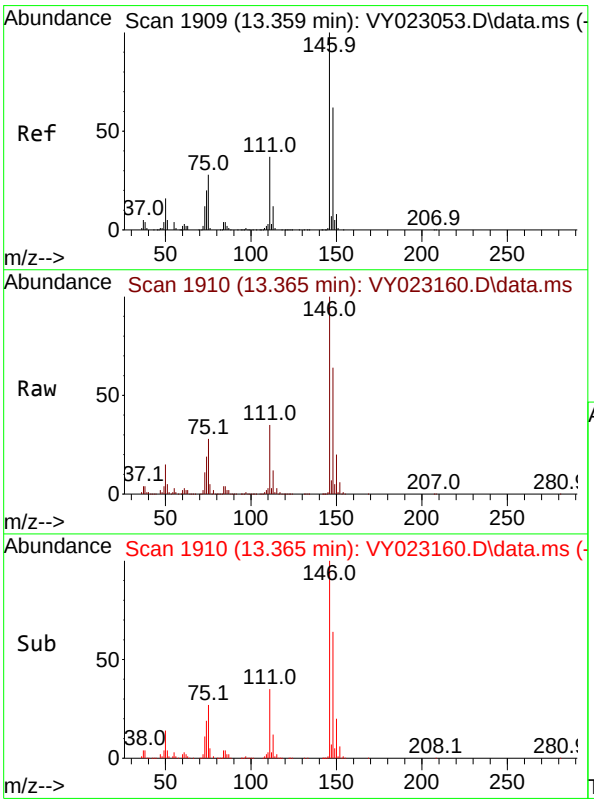
#87
1,3-Dichlorobenzene
Concen: 49.644 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

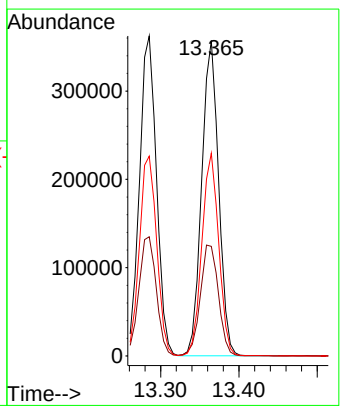


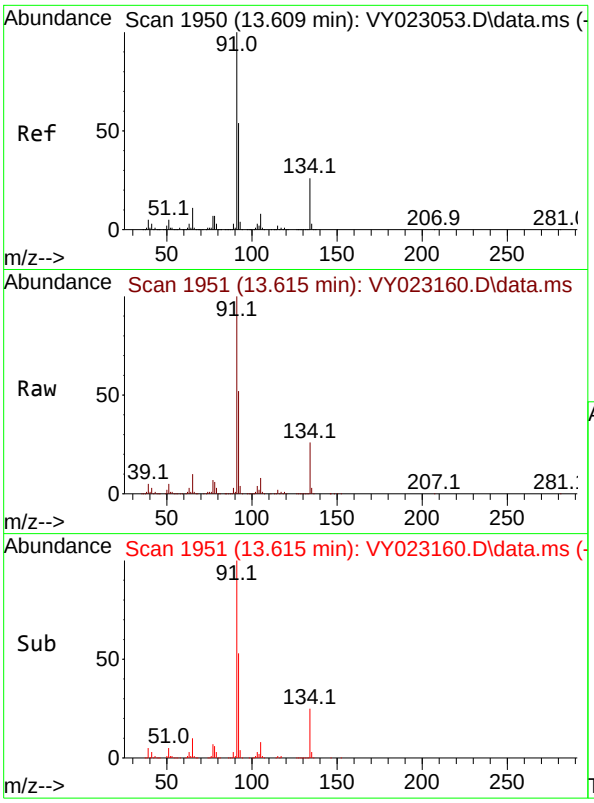


#88
1,4-Dichlorobenzene
Concen: 48.611 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



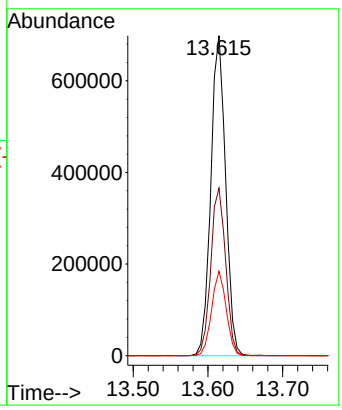


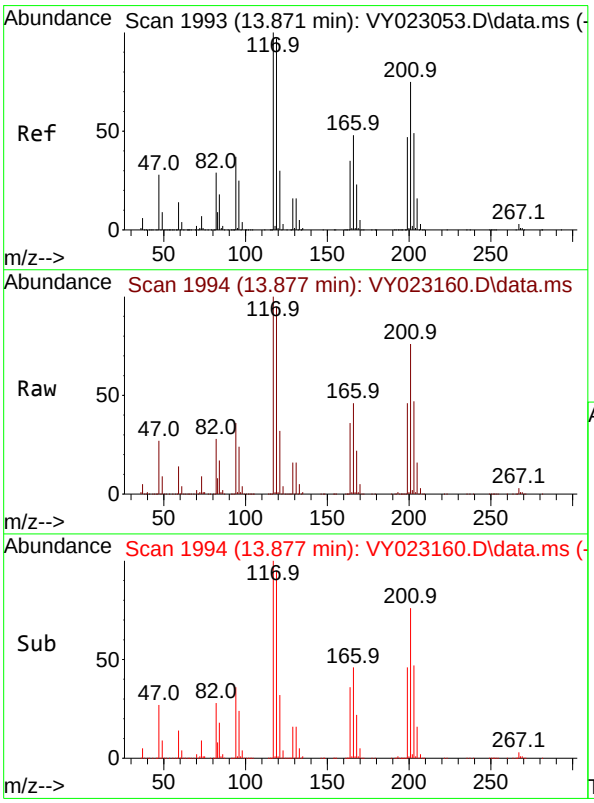
#89
n-Butylbenzene
Concen: 49.746 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

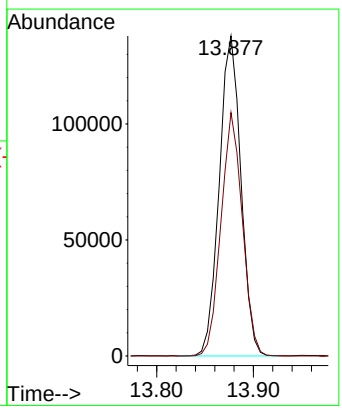


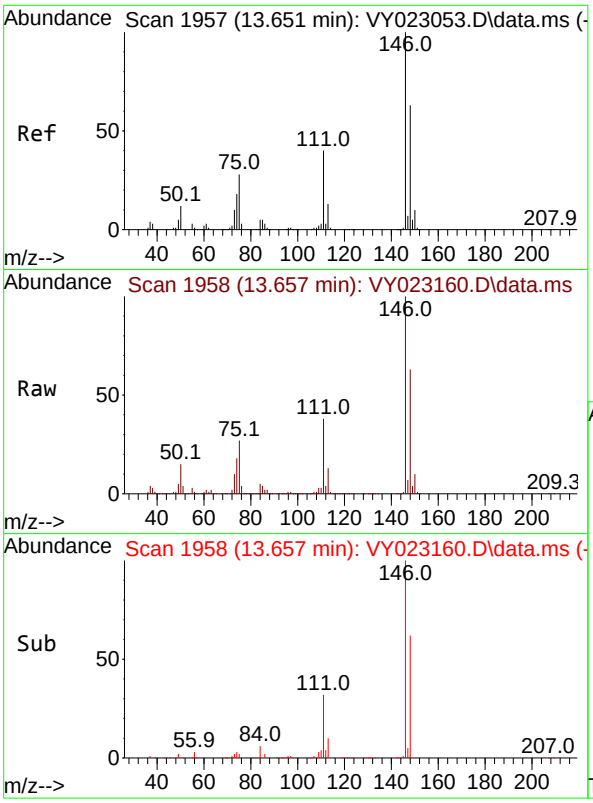


#90
Hexachloroethane
Concen: 50.008 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 214503

Ion	Ratio	Lower	Upper
117	100		
201	75.0	38.4	115.1



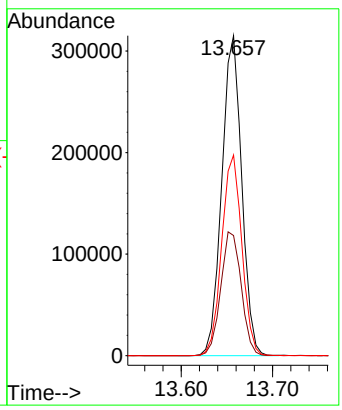


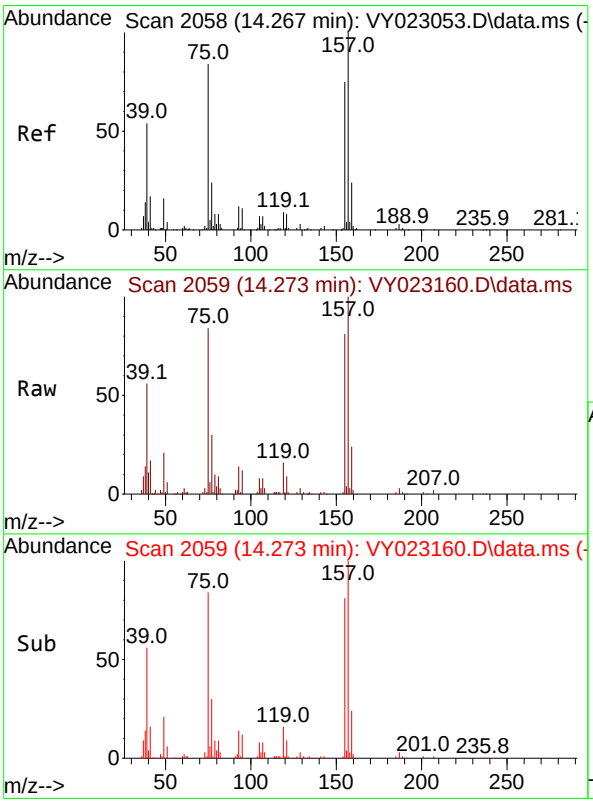
#91
1,2-Dichlorobenzene
Concen: 49.177 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

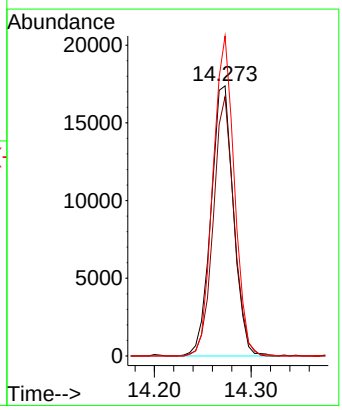


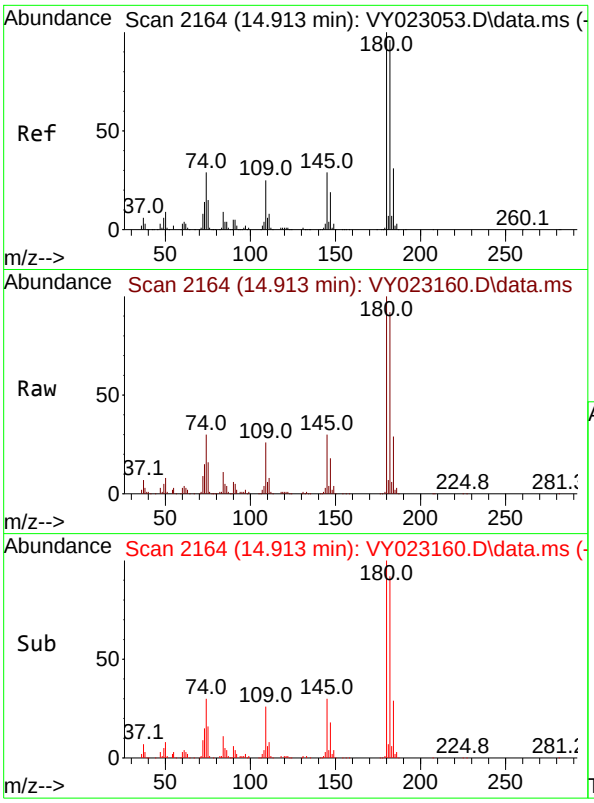


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



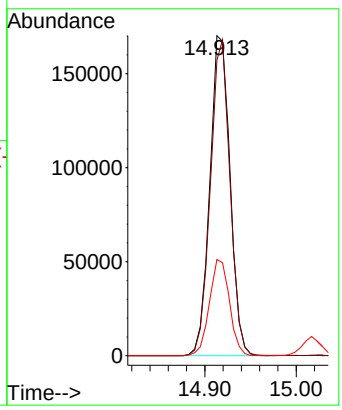


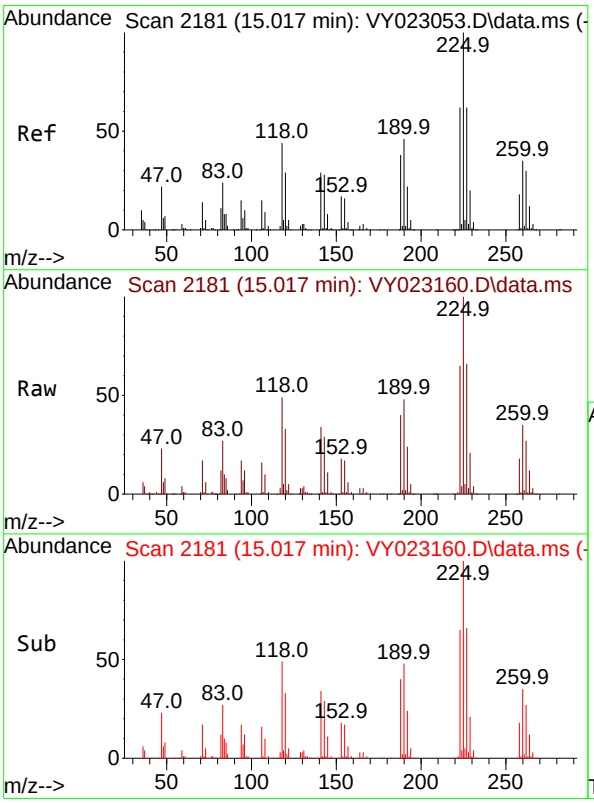
#93
1,2,4-Trichlorobenzene
Concen: 45.553 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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

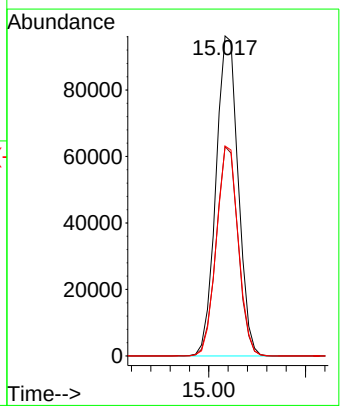


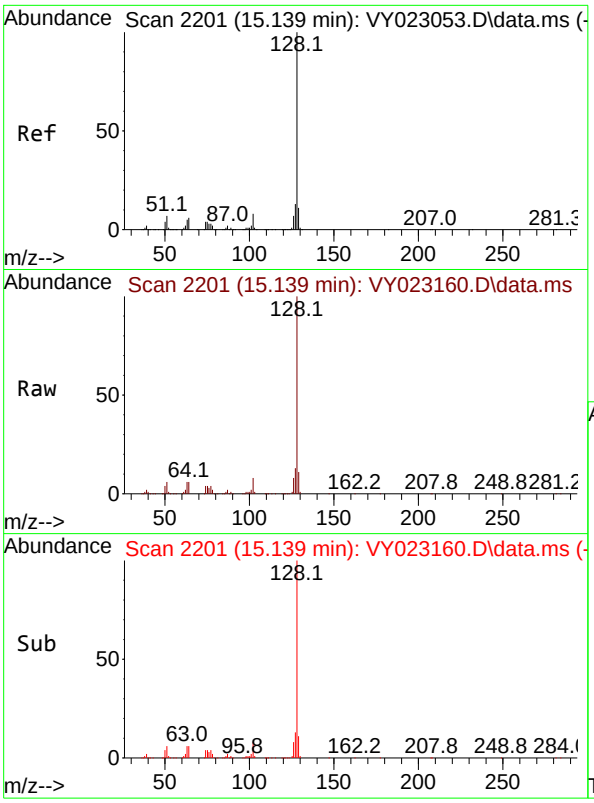


#94
Hexachlorobutadiene
Concen: 45.434 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

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



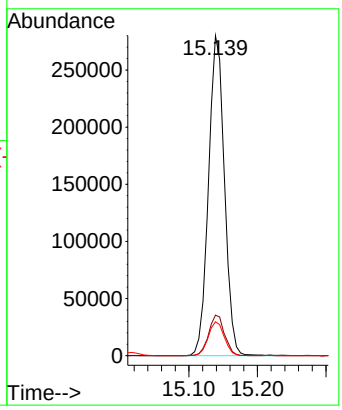


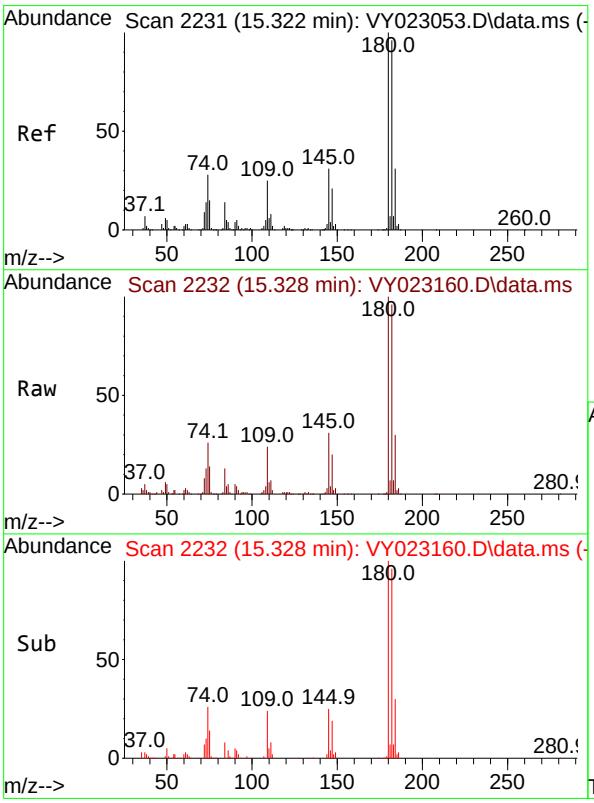
#95
Naphthalene
Concen: 46.168 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

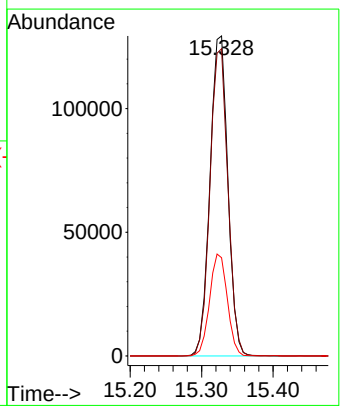
Tgt Ion:128 Resp: 452211

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