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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : ANSONIA LANDFILL 2025

LOCKWOOD, KESSLER & BARTLETT, INC.

1 Aerial Way

Syosset, NY - 11791-

Phone No: 516-938-0600

ORDER ID : Q3254

ATTENTION : John Gerlach

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3254

Project ID : Ansonia Landfill 2025

Client : Lockwood, Kessler & Bartlett, Inc.

Lab Sample Number	Client Sample Number
Q3254-01	MW-1
Q3254-02	MW-1
Q3254-03	MW-2
Q3254-04	MW-2
Q3254-05	MW-3
Q3254-06	MW-3
Q3254-07	MW-4
Q3254-08	MW-4
Q3254-09	TRIP-BLANK

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: 10/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.
Project Name: Ansonia Landfill 2025
Project # N/A
Order ID # Q3254
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
5 Water samples were received on 09/30/2025.

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

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

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

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate for {VV1003WBSD01} with File ID: VV039246.D met requirements for all compounds except for Bromoform[111%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane, Acetone ,Methylene Chloride,Styrene,1,2-Dibromo-3-Chloropropane are passing on Quadratic Regression.

The Continuous Calibration File ID VV039242.D met the requirements except for Bromoform, Ethyl Benzene, m/p-Xylenes, o-Xylene, Toluene are failing high but no positive hit in associate sample while 4-Bromofluorobenzene which is not our target compound therefore no corrective action taken.

The Tuning criteria met requirements.

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

Alliance has analyzed samples for VOCMS Group1 by Method 8260D for Project "Ansonia Landfill 2025". Alliance is not certified for trans-1,4-dichloro-2-butene compounds with NJDEP for 8260D method for VOCMS Group1 at the time when samples for Project "Ansonia Landfill 2025 "were analyzed

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: Q3254 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane,Acetone ,Methylene Chloride,Styrene,1,2-Dibromo-3-Chloropropane are passing on Quadratic Regression. The Continuous Calibration File ID VV039242.D met the requirements except for Bromoform, Ethyl Benzene, m/p-Xylenes, o-Xylene, Toluene are failing high but no positive hit in associate sample while 4-Bromofluorobenzene which is not our target compound 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.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate for {VV1003WBSD01} with File ID: VV039246.D met requirements for all compounds except for Bromoform[111%] is failing high but no positive hit in associate sample therefore no corrective action taken.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

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

Alliance has analyzed samples for VOCMS Group1 by Method 8260D for Project “Ansonia Landfill 2025”.

Alliance is not certified for trans-1,4-dichloro-2-butene compounds with NJDEP for 8260D method for VOCMS Group1 at the time when samples for Project “Ansonia Landfill 2025 “were analyzed

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3254

	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:** 10/09/2025

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LAB CHRONICLE

OrderID:	Q3254	**OrderDate:**	9/30/2025 12:37:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	**Project:**	Ansonia Landfill 2025
Contact:	John Gerlach	**Location:**	D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3254-01	**MW-1**	**Water**			**09/29/25**			**09/30/25**
			VOCMS Group1	8260-Low			10/03/25	
Q3254-03	**MW-2**	**Water**			**09/29/25**			**09/30/25**
			VOCMS Group1	8260-Low			10/03/25	
Q3254-05	**MW-3**	**Water**			**09/29/25**			**09/30/25**
			VOCMS Group1	8260-Low			10/03/25	
Q3254-07	**MW-4**	**Water**			**09/29/25**			**09/30/25**
			VOCMS Group1	8260-Low			10/03/25	
Q3254-09	**TRIP-BLANK**	**Water**			**09/29/25**			**09/30/25**
			VOCMS Group1	8260-Low			10/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3254

Client: Lockwood, Kessler & Bartlett, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**MW-2**							
Q3254-03	MW-2	Water	Chlorobenzene	0.97	J	0.12	1.00	ug/L
			Total Voc :	0.97				
			Total Concentration:	0.97				
Client ID:	**MW-4**							
Q3254-07	MW-4	Water	Chlorobenzene	0.71	J	0.12	1.00	ug/L
			Total Voc :	0.71				
			Total Concentration:	0.71				

QC SUMMARY

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Surrogate Summary

SDG No.: Q3254

Client: Lockwood, Kessler & Bartlett, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3254-01	MW-1	1,2-Dichloroethane-d4	50	59.5	119		74	125
		Dibromofluoromethane	50	58.8	118		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	45.0	90		77	121
Q3254-03	MW-2	1,2-Dichloroethane-d4	50	58.7	117		74	125
		Dibromofluoromethane	50	61.4	123		75	124
		Toluene-d8	50	46.7	93		86	113
		4-Bromofluorobenzene	50	46.2	92		77	121
Q3254-05	MW-3	1,2-Dichloroethane-d4	50	58.4	117		74	125
		Dibromofluoromethane	50	56.4	113		75	124
		Toluene-d8	50	45.2	90		86	113
		4-Bromofluorobenzene	50	45.3	91		77	121
Q3254-07	MW-4	1,2-Dichloroethane-d4	50	57.5	115		74	125
		Dibromofluoromethane	50	57.4	115		75	124
		Toluene-d8	50	45.6	91		86	113
		4-Bromofluorobenzene	50	45.1	90		77	121
Q3254-09	TRIP-BLANK	1,2-Dichloroethane-d4	50	58.2	116		74	125
		Dibromofluoromethane	50	58.9	118		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	44.6	89		77	121
VV1003WBL01	VV1003WBL01	1,2-Dichloroethane-d4	50	51.7	103		74	125
		Dibromofluoromethane	50	52.5	105		75	124
		Toluene-d8	50	44.6	89		86	113
		4-Bromofluorobenzene	50	45.2	90		77	121
VV1003WBS01	VV1003WBS01	1,2-Dichloroethane-d4	50	41.7	83		74	125
		Dibromofluoromethane	50	49.6	99		75	124
		Toluene-d8	50	45.8	92		86	113
		4-Bromofluorobenzene	50	53.4	107		77	121
VV1003WBSD0	VV1003WBSD01	1,2-Dichloroethane-d4	50	42.8	86		74	125
		Dibromofluoromethane	50	48.6	97		75	124
		Toluene-d8	50	45.3	91		86	113
		4-Bromofluorobenzene	50	53.2	106		77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3254**	**Analytical Method:**	**SW8260-Low**
Client:	**Lockwood, Kessler & Bartlett, Inc.**	**Datafile :**	VV039245.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV1003WBS01	Vinyl chloride	20	17.5	ug/L	88			65	117	
	Chloroethane	20	18.1	ug/L	91			56	128	
	Trichlorofluoromethane	20	19.1	ug/L	96			73	115	
	1,1-Dichloroethene	20	18.8	ug/L	94			74	110	
	Acrylonitrile	100	88.9	ug/L	89			73	113	
	Acetone	100	91.0	ug/L	91			60	125	
	Carbon disulfide	20	16.0	ug/L	80			64	112	
	Methylene Chloride	20	19.9	ug/L	100			72	114	
	Vinyl Acetate	100	88.0	ug/L	88			76	115	
	2-Butanone	100	89.1	ug/L	89			65	122	
	Carbon Tetrachloride	20	19.2	ug/L	96			77	113	
	cis-1,2-Dichloroethene	20	19.2	ug/L	96			77	110	
	Bromochloromethane	20	19.3	ug/L	97			70	124	
	Chloroform	20	18.1	ug/L	91			79	113	
	1,1,1-Trichloroethane	20	18.2	ug/L	91			80	108	
	Benzene	20	19.4	ug/L	97			82	109	
	1,2-Dichloropropane	20	19.9	ug/L	100			83	111	
	Dibromomethane	20	19.8	ug/L	99			82	110	
	Bromodichloromethane	20	19.3	ug/L	97			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	20.9	ug/L	104			82	110	
	t-1,3-Dichloropropene	20	21.1	ug/L	106			79	110	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			82	110	
	2-Hexanone	100	91.8	ug/L	92			73	117	
	Dibromochloromethane	20	20.7	ug/L	104			82	110	
	1,2-Dibromoethane	20	20.6	ug/L	103			81	110	
	Tetrachloroethene	20	20.3	ug/L	102			67	123	
	Chlorobenzene	20	20.2	ug/L	101			82	109	
	1,1,1,2-Tetrachloroethane	20	20.3	ug/L	102			84	111	
	Ethyl Benzene	20	20.2	ug/L	101			83	109	
	m/p-Xylenes	40	43.1	ug/L	108			82	110	
	o-Xylene	20	21.5	ug/L	108			83	109	
	Styrene	20	19.7	ug/L	99			80	111	
	Bromoform	20	21.5	ug/L	108			79	109	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91			76	118	
	1,2,3-Trichloropropane	20	18.1	ug/L	91			75	112	
	1,4-Dichlorobenzene	20	19.3	ug/L	97			82	107	
	1,2-Dichlorobenzene	20	19.7	ug/L	99			82	109	
	1,2-Dibromo-3-Chloropropane	20	20.5	ug/L	103			68	112	
	Methyl iodide	20	22.0	ug/L	110			70	130	
	trans-1,4-Dichloro-2-butene	20	19.0	ug/L	95			79	102	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3254 **Analytical Method:** SW8260-Low

Client: Lockwood, Kessler & Bartlett, Inc. **Datafile :** VV039246.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VV1003WBSD01	Vinyl chloride	20	17.0	ug/L	85	3		65	117	19
	Chloroethane	20	17.8	ug/L	89	2		56	128	20
	Trichlorofluoromethane	20	18.8	ug/L	94	2		73	115	16
	1,1-Dichloroethene	20	18.7	ug/L	94	0		74	110	20
	Acrylonitrile	100	94.7	ug/L	95	7		73	113	29
	Acetone	100	93.4	ug/L	93	2		60	125	20
	Carbon disulfide	20	15.9	ug/L	79	1		64	112	20
	Methylene Chloride	20	20.2	ug/L	101	1		72	114	20
	Vinyl Acetate	100	92.0	ug/L	92	4		76	115	26
	2-Butanone	100	93.5	ug/L	94	5		65	122	26
	Carbon Tetrachloride	20	18.8	ug/L	94	2		77	113	15
	cis-1,2-Dichloroethene	20	19.6	ug/L	98	2		77	110	20
	Bromochloromethane	20	19.6	ug/L	98	1		70	124	20
	Chloroform	20	18.2	ug/L	91	0		79	113	20
	1,1,1-Trichloroethane	20	18.4	ug/L	92	1		80	108	20
	Benzene	20	19.3	ug/L	97	0		82	109	15
	1,2-Dichloropropane	20	19.1	ug/L	96	4		83	111	16
	Dibromomethane	20	20.1	ug/L	101	2		82	110	20
	Bromodichloromethane	20	19.4	ug/L	97	0		83	110	16
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		74	118	25
	Toluene	20	20.9	ug/L	104	0		82	110	16
	t-1,3-Dichloropropene	20	21.3	ug/L	106	0		79	110	20
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	2		82	110	16
	2-Hexanone	100	95.2	ug/L	95	3		73	117	25
	Dibromochloromethane	20	20.6	ug/L	103	1		82	110	20
	1,2-Dibromoethane	20	21.4	ug/L	107	4		81	110	20
	Tetrachloroethene	20	20.4	ug/L	102	0		67	123	15
	Chlorobenzene	20	20.2	ug/L	101	0		82	109	15
	1,1,1,2-Tetrachloroethane	20	20.7	ug/L	104	2		84	111	20
	Ethyl Benzene	20	20.2	ug/L	101	0		83	109	16
	m/p-Xylenes	40	43.3	ug/L	108	0		82	110	15
	o-Xylene	20	21.8	ug/L	109	1		83	109	20
	Styrene	20	19.6	ug/L	98	1		80	111	17
	Bromoform	20	22.2	ug/L	111	3	*	79	109	20
	1,1,2,2-Tetrachloroethane	20	18.8	ug/L	94	3		76	118	20
	1,2,3-Trichloropropane	20	18.8	ug/L	94	3		75	112	20
	1,4-Dichlorobenzene	20	19.5	ug/L	98	1		82	107	15
	1,2-Dichlorobenzene	20	20.2	ug/L	101	2		82	109	20
	1,2-Dibromo-3-Chloropropane	20	20.6	ug/L	103	0		68	112	20
	Methyl iodide	20	22.2	ug/L	111	1		70	130	20
	trans-1,4-Dichloro-2-butene	20	19.5	ug/L	98	3		79	102	20

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VOLATILE METHOD BLANK SUMMARY

Client ID: VV1003WBL01

Lab Name: Alliance Contract: LOCK01

Lab Code: ACE SDG NO.: Q3254

Lab File ID: VV039244.D Lab Sample ID: VV1003WBL01

Date Analyzed: 10/03/2025 Time Analyzed: 11:26

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

Instrument ID: MSVOA_V

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VV1003WBS01	VV1003WBS01	VV039245.D	10/03/2025
VV1003WBSD01	VV1003WBSD01	VV039246.D	10/03/2025
TRIP-BLANK	Q3254-09	VV039251.D	10/03/2025
MW-1	Q3254-01	VV039252.D	10/03/2025
MW-2	Q3254-03	VV039253.D	10/03/2025
MW-3	Q3254-05	VV039254.D	10/03/2025
MW-4	Q3254-07	VV039255.D	10/03/2025

COMMENTS:

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: LOCK01
Lab Code: ACE
SDG NO.: Q3254
Lab File ID: VV039134.D
BFB Injection Date: 09/22/2025
Instrument ID: MSVOA_V
BFB Injection Time: 10:15
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	1.1 (1.6) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.4 (96) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 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
VSTDICC010	VSTDICC010	VV039137.D	09/22/2025	12:26
VSTDICC020	VSTDICC020	VV039138.D	09/22/2025	12:48
VSTDICCC050	VSTDICCC050	VV039139.D	09/22/2025	13:26
VSTDICC100	VSTDICC100	VV039140.D	09/22/2025	13:49
VSTDICC005	VSTDICC005	VV039142.D	09/22/2025	15:37
VSTDICC001	VSTDICC001	VV039143.D	09/22/2025	16:35

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: LOCK01
Lab Code: ACE
SDG NO.: Q3254
Lab File ID: VV039241.D
BFB Injection Date: 10/03/2025
Instrument ID: MSVOA_V
BFB Injection Time: 08:26
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	49.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	78
175	5.0 - 9.0% of mass 174	5.5 (7) 1
176	95.0 - 101.0% of mass 174	74.9 (96) 1
177	5.0 - 9.0% of mass 176	5 (6.6) 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	VV039242.D	10/03/2025	08:53
VV1003WBL01	VV1003WBL01	VV039244.D	10/03/2025	11:26
VV1003WBS01	VV1003WBS01	VV039245.D	10/03/2025	13:07
VV1003WBSD01	VV1003WBSD01	VV039246.D	10/03/2025	13:29
TRIP-BLANK	Q3254-09	VV039251.D	10/03/2025	15:49
MW-1	Q3254-01	VV039252.D	10/03/2025	16:11
MW-2	Q3254-03	VV039253.D	10/03/2025	16:34
MW-3	Q3254-05	VV039254.D	10/03/2025	16:56
MW-4	Q3254-07	VV039255.D	10/03/2025	17:19

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LOCK01

Lab Code: ACE SDG NO.: Q3254

Lab File ID: VV039242.D Date Analyzed: 10/03/2025

Instrument ID: MSVOA_V Time Analyzed: 08:53

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	504801	4.60	717875	5.53	718198	8.77
UPPER LIMIT	1009600	5.096	1435750	6.032	1436400	9.273
LOWER LIMIT	252401	4.096	358938	5.032	359099	8.273
EPA SAMPLE NO.						
MW-1	361761	4.60	619136	5.54	640562	8.78
MW-2	308662	4.60	515390	5.54	544820	8.78
MW-3	448224	4.60	801027	5.54	823576	8.78
MW-4	392891	4.60	674176	5.54	694020	8.78
TRIP-BLANK	330074	4.60	558191	5.54	580452	8.78
VV1003WBL01	501875	4.60	854024	5.53	854306	8.78
VV1003WBS01	559480	4.60	866328	5.53	845304	8.77
VV1003WBSD01	530712	4.60	834883	5.54	807929	8.78

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: LOCK01

Lab Code: ACE SDG NO.: Q3254

Lab File ID: VV039242.D Date Analyzed: 10/03/2025

Instrument ID: MSVOA_V Time Analyzed: 08:53

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

	IS4 AREA #	RT #				
12 HOUR STD	467640	11.172				
UPPER LIMIT	935280	11.672				
LOWER LIMIT	233820	10.672				
EPA SAMPLE NO.						
MW-1	308059	11.18				
MW-2	261173	11.17				
MW-3	400173	11.17				
MW-4	336486	11.17				
TRIP-BLANK	279370	11.18				
VV1003WBL01	433083	11.17				
VV1003WBS01	506399	11.17				
VV1003WBSD01	481201	11.17				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-1	SDG No.:	Q3254
Lab Sample ID:	Q3254-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039252.D	1	10/03/25 16:11	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-1	SDG No.:	Q3254
Lab Sample ID:	Q3254-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039252.D	1	10/03/25 16:11	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.5		74 - 125	119%	SPK: 50
1868-53-7	Dibromofluoromethane	58.8		75 - 124	118%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	362000	4.603			
540-36-3	1,4-Difluorobenzene	619000	5.535			
3114-55-4	Chlorobenzene-d5	641000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	308000	11.175			

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_V\DATA\VV100325\
Data File : VV039252.D
Acq On : 03 Oct 2025 16:11
Operator : SY/MD
Sample : Q3254-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Quant Time: Oct 04 01:12:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

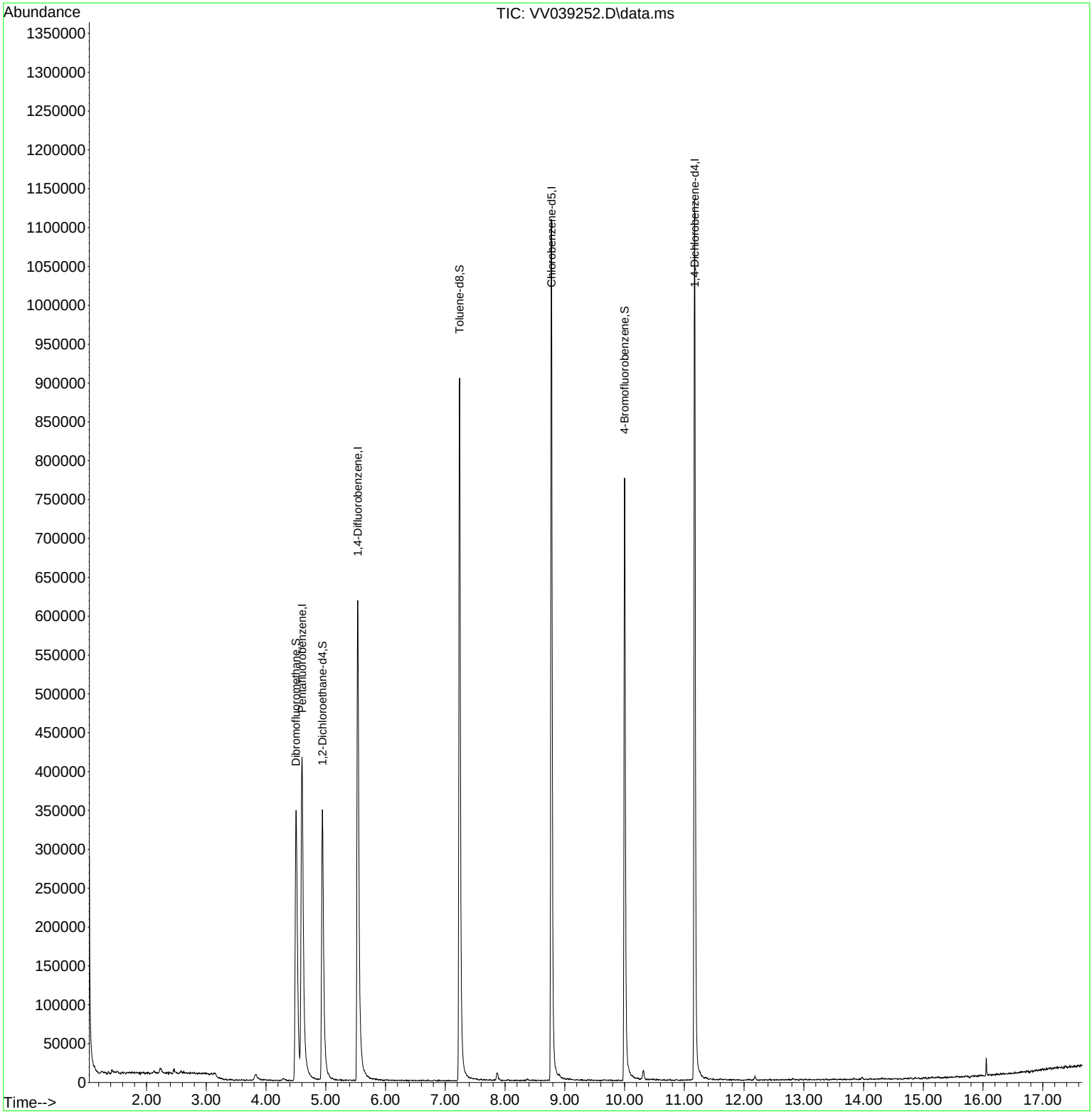
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	361761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	619136	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	640562	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	308059	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	311732	59.539	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 119.080%#			
35) Dibromofluoromethane	4.503	113	292587	58.784	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 117.560%			
50) Toluene-d8	7.240	98	669176	45.776	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.560%			
62) 4-Bromofluorobenzene	10.002	95	271111	45.050	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.100%			
Target Compounds						Qvalue

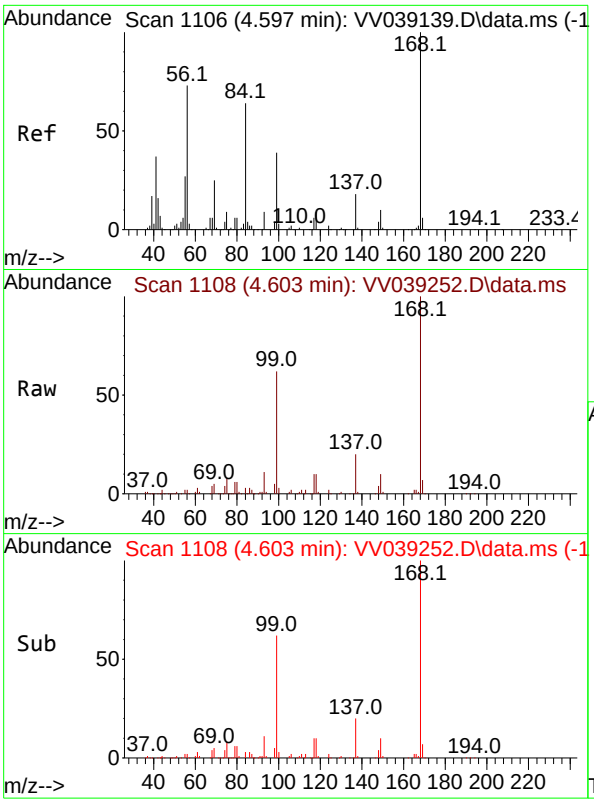
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039252.D
Acq On : 03 Oct 2025 16:11
Operator : SY/MD
Sample : Q3254-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Quant Time: Oct 04 01:12:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



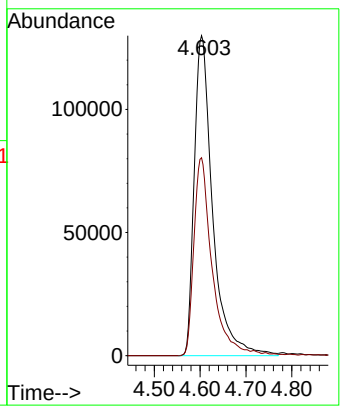


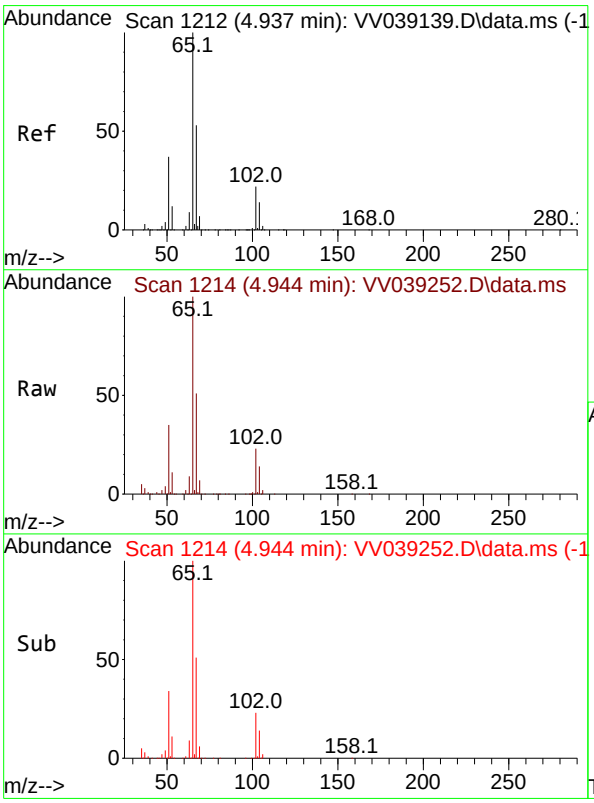
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Tgt Ion:168 Resp: 361761

Ion	Ratio	Lower	Upper
168	100		
99	61.8	49.6	74.4

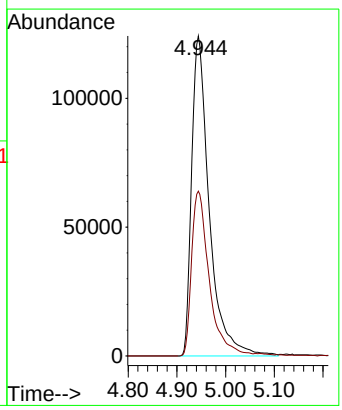


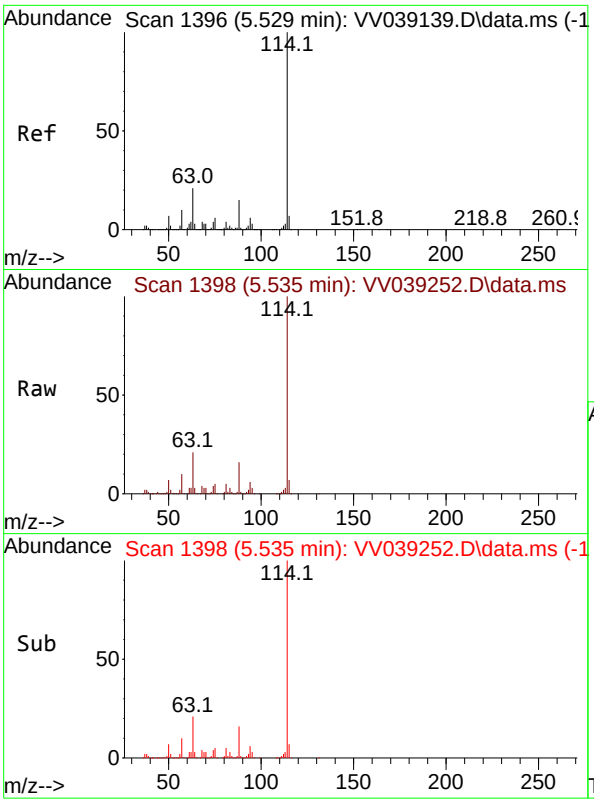


#33
1,2-Dichloroethane-d4
Concen: 59.539 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Tgt Ion: 65 Resp: 311732

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	107.0



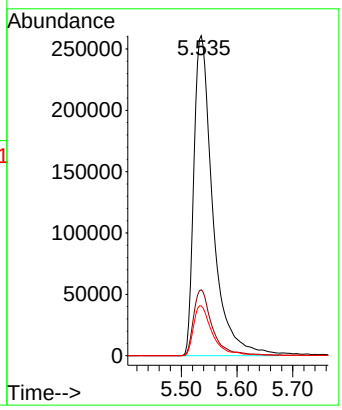


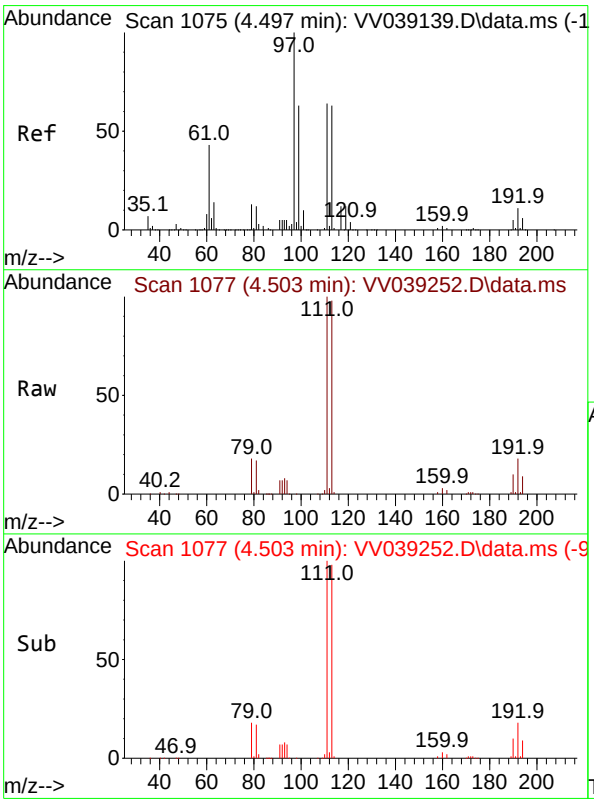
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Tgt Ion:114 Resp: 619136

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	42.6
88	15.6	0.0	30.8

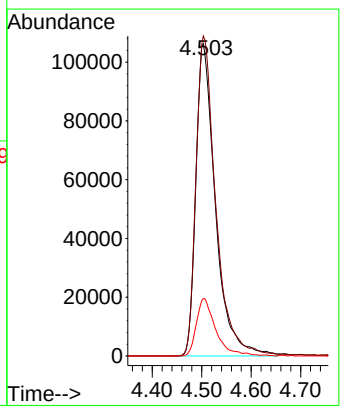


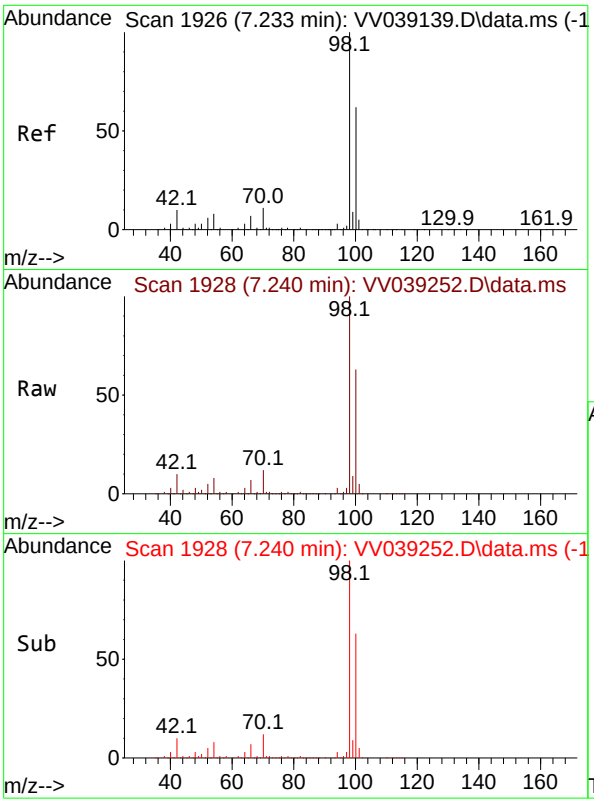


#35
Dibromofluoromethane
Concen: 58.784 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Tgt Ion:113 Resp: 292587

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.4	123.6
192	17.8	13.8	20.8



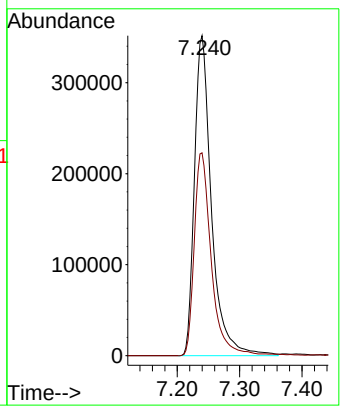


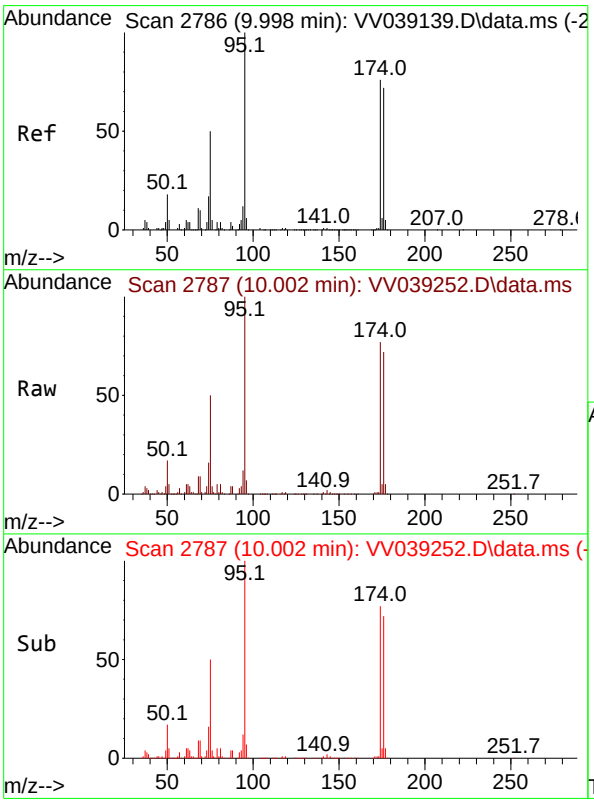
#50
Toluene-d8
Concen: 45.776 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Tgt Ion: 98 Resp: 669176

Ion	Ratio	Lower	Upper
98	100		
100	62.9	52.2	78.2

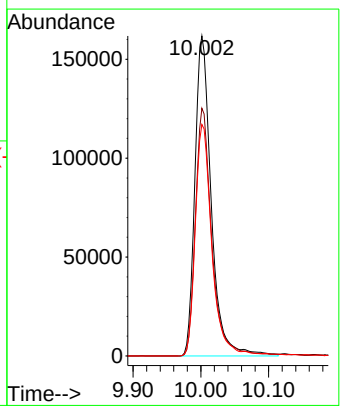


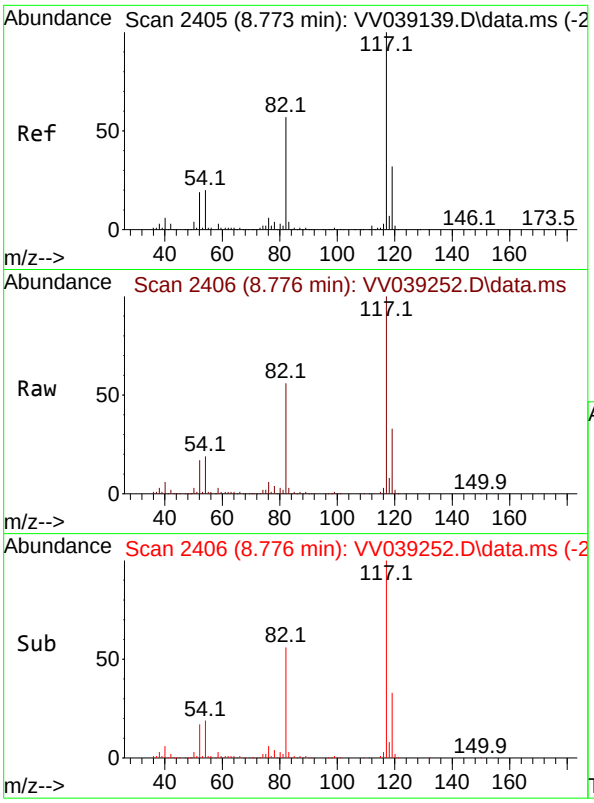


#62
4-Bromofluorobenzene
Concen: 45.050 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Tgt Ion: 95 Resp: 271111

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	150.4
176	72.0	0.0	144.2



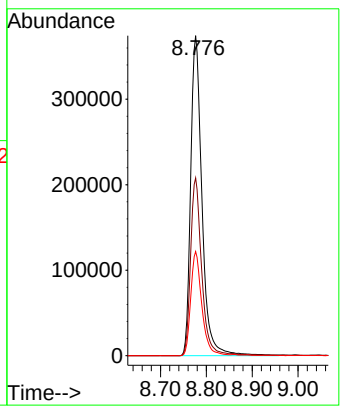


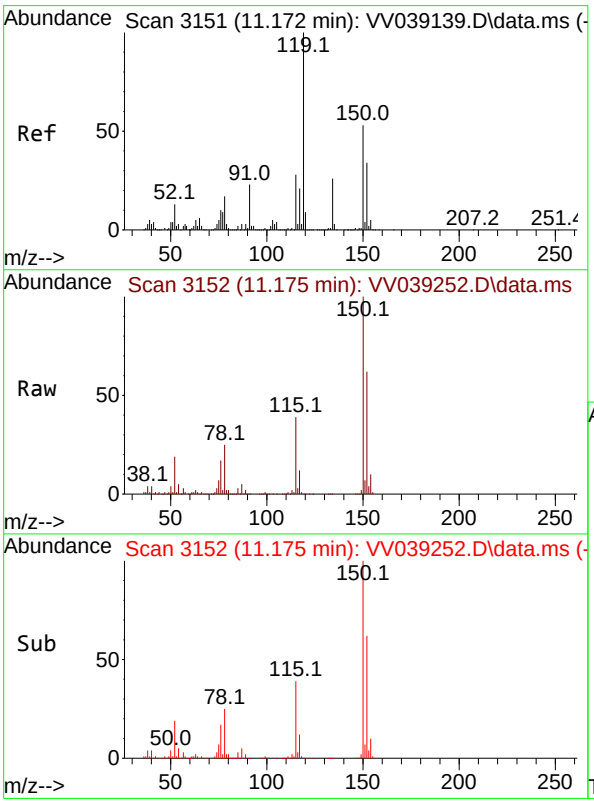
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Instrument :
MSVOA_V
ClientSampleId :
MW-1

Tgt Ion:117 Resp: 640562

Ion	Ratio	Lower	Upper
117	100		
82	55.6	45.4	68.2
119	32.5	25.6	38.4

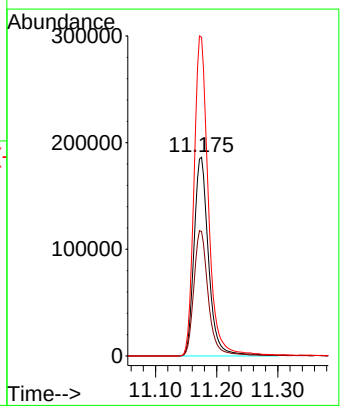




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039252.D
Acq: 03 Oct 2025 16:11

Tgt Ion:152 Resp: 308059

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.8	134.4
150	158.8	0.0	353.8



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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-2	SDG No.:	Q3254
Lab Sample ID:	Q3254-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039253.D	1	10/03/25 16:34	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.97	J	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-2	SDG No.:	Q3254
Lab Sample ID:	Q3254-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039253.D	1	10/03/25 16:34	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.7		74 - 125	117%	SPK: 50
1868-53-7	Dibromofluoromethane	61.4		75 - 124	123%	SPK: 50
2037-26-5	Toluene-d8	46.7		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		77 - 121	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	309000	4.603			
540-36-3	1,4-Difluorobenzene	515000	5.535			
3114-55-4	Chlorobenzene-d5	545000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	261000	11.172			

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_V\DATA\VV100325\
Data File : VV039253.D
Acq On : 03 Oct 2025 16:34
Operator : SY/MD
Sample : Q3254-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Quant Time: Oct 04 01:13:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

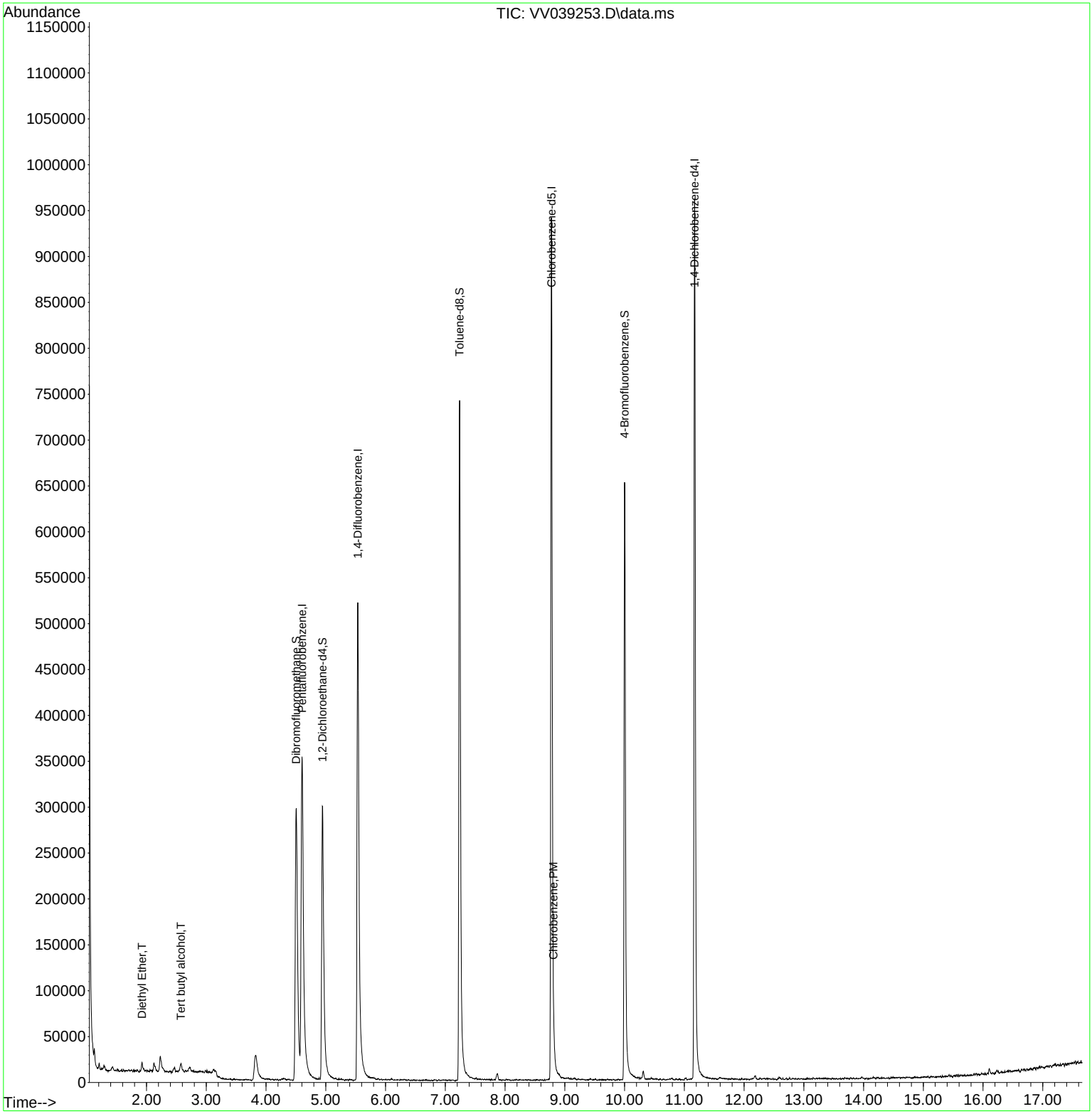
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	308662	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	515390	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	544820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	261173	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	262159	58.685	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 117.360%			
35) Dibromofluoromethane	4.506	113	254272	61.369	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 122.740%#			
50) Toluene-d8	7.239	98	568796	46.741	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 93.480%			
62) 4-Bromofluorobenzene	10.001	95	231239	46.159	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 92.320%			
Target Compounds						Qvalue
8) Diethyl Ether	1.928	74	4207	1.394	ug/l	80
11) Tert butyl alcohol	2.574	59	8213	8.699	ug/l	97
65) Chlorobenzene	8.812	112	14731	0.971	ug/l	98

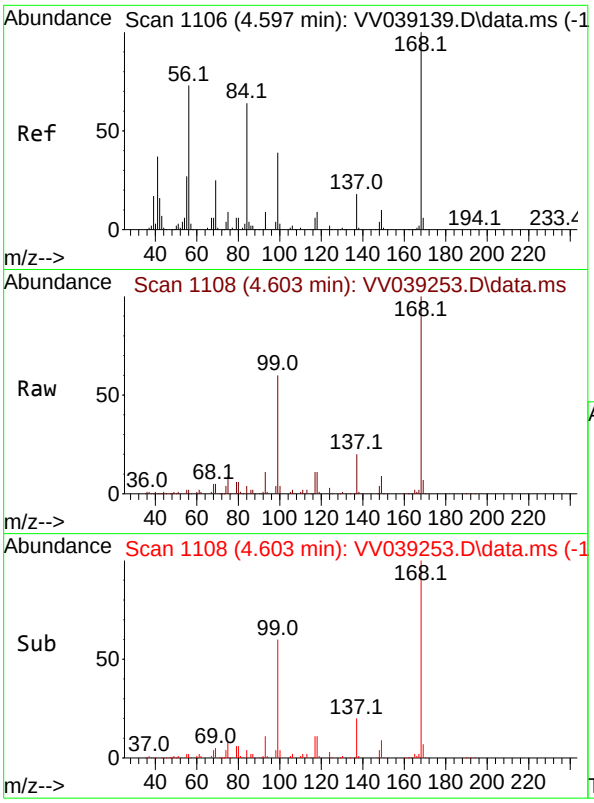
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039253.D
Acq On : 03 Oct 2025 16:34
Operator : SY/MD
Sample : Q3254-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Quant Time: Oct 04 01:13:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



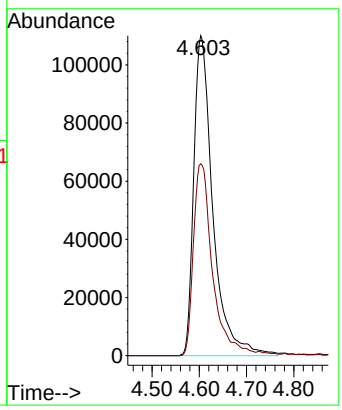


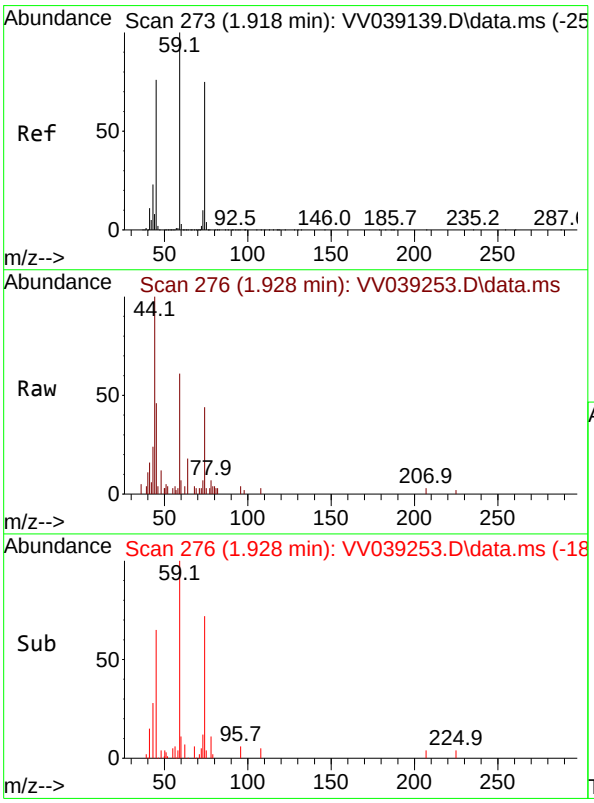
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Tgt Ion:168 Resp: 308662

Ion	Ratio	Lower	Upper
168	100		
99	59.9	49.6	74.4

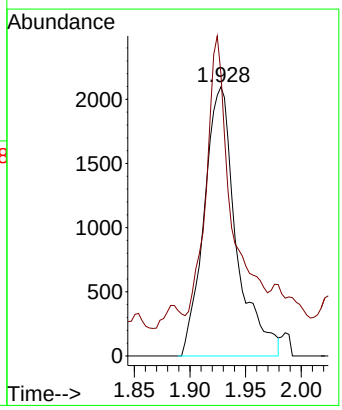


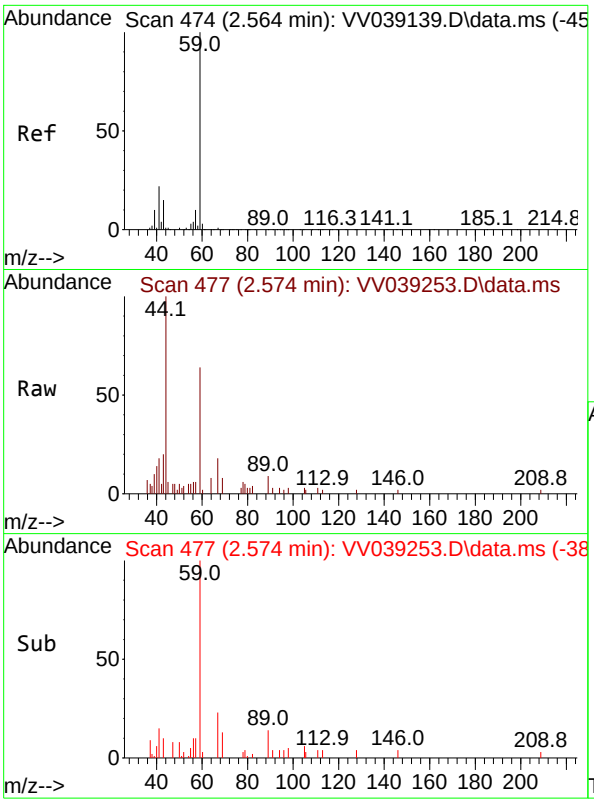


#8
Diethyl Ether
Concen: 1.394 ug/l
RT: 1.928 min Scan# 276
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 74 Resp: 4207

Ion	Ratio	Lower	Upper
74	100		
45	78.9	49.6	148.8



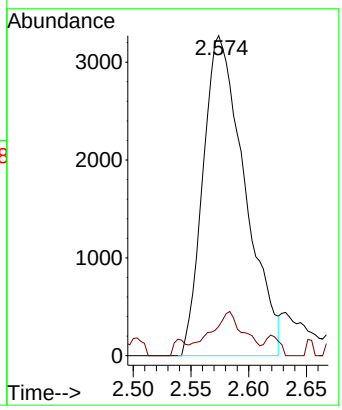


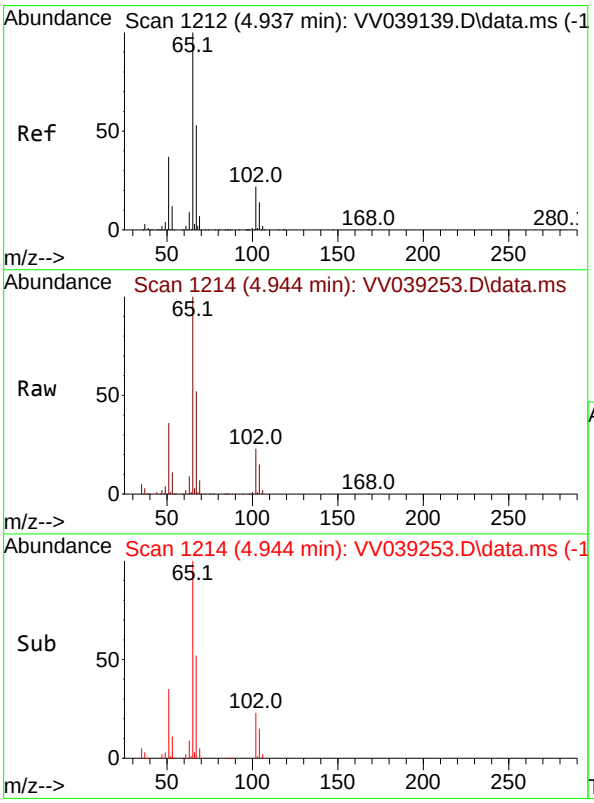
#11
Tert butyl alcohol
Concen: 8.699 ug/l
RT: 2.574 min Scan# 4
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Tgt Ion: 59 Resp: 8213

Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

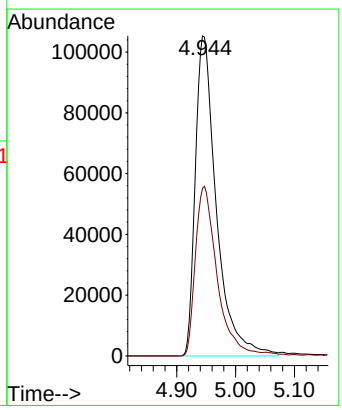


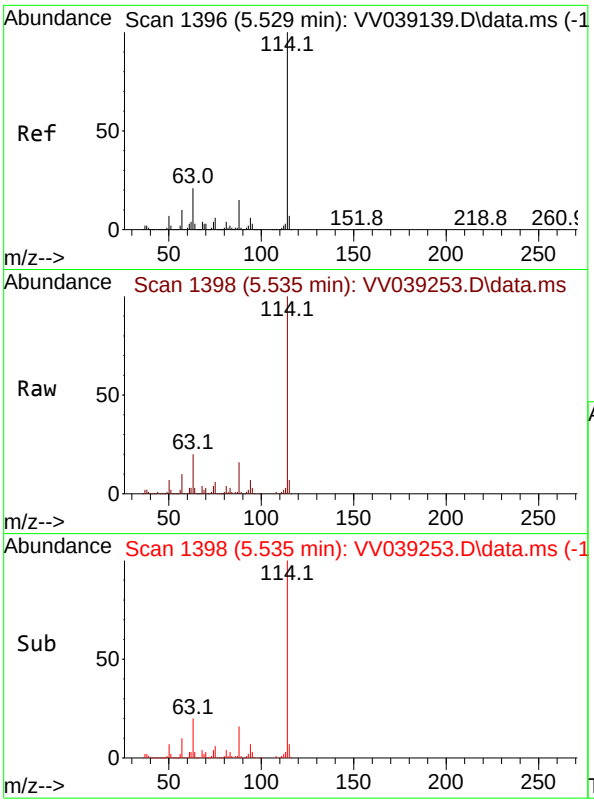


#33
1,2-Dichloroethane-d4
Concen: 58.685 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 65 Resp: 262159

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	107.0



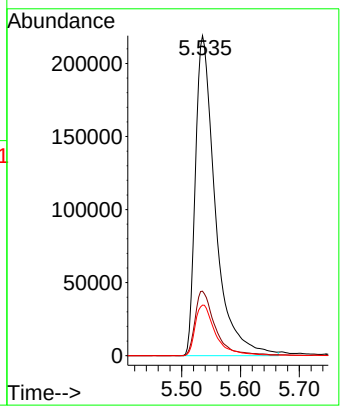


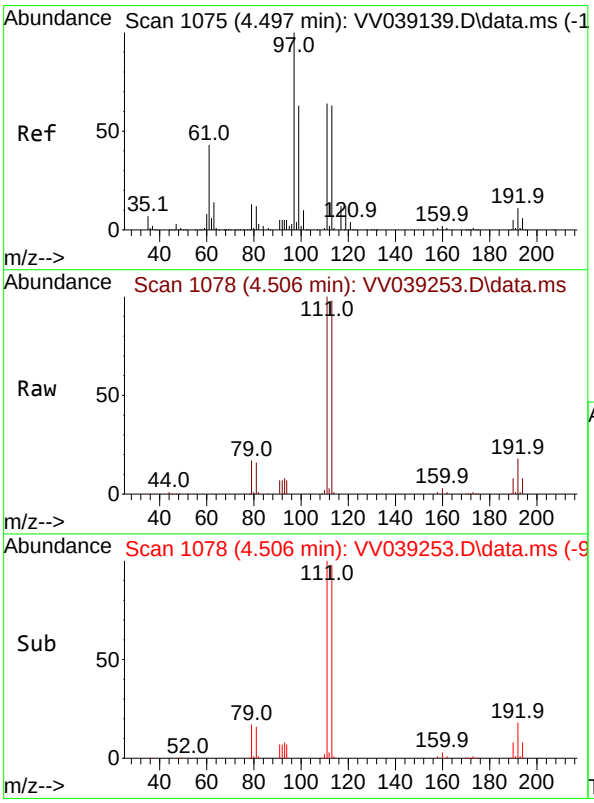
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Tgt Ion:114 Resp: 515390

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.8	0.0	30.8

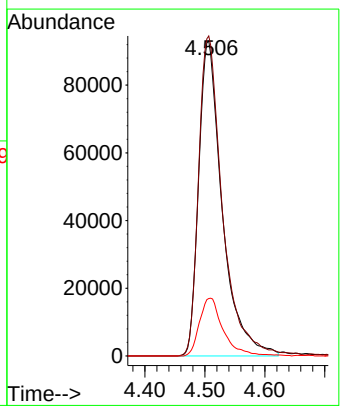


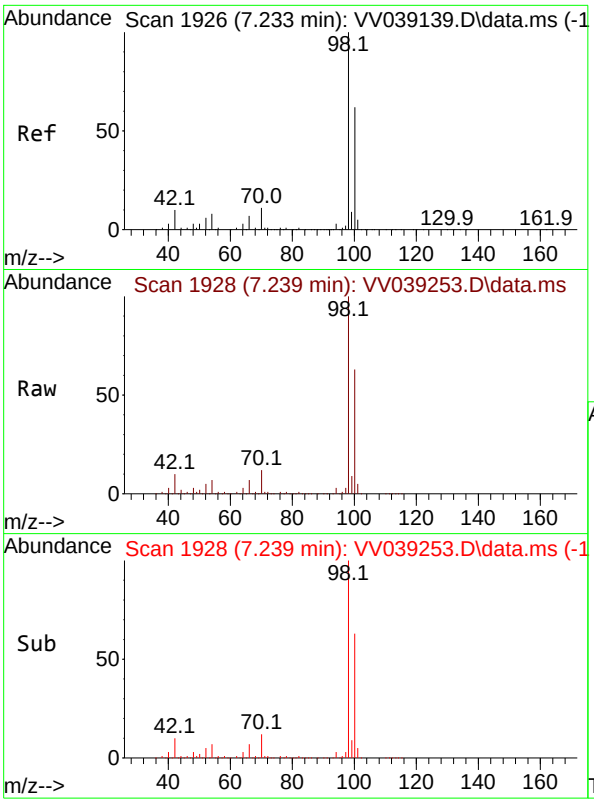


#35
Dibromofluoromethane
Concen: 61.369 ug/l
RT: 4.506 min Scan# 1078
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion:113 Resp: 254272

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.4	123.6
192	18.6	13.8	20.8



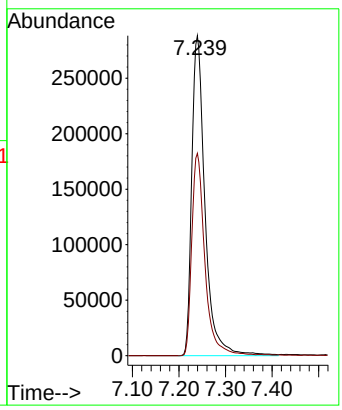


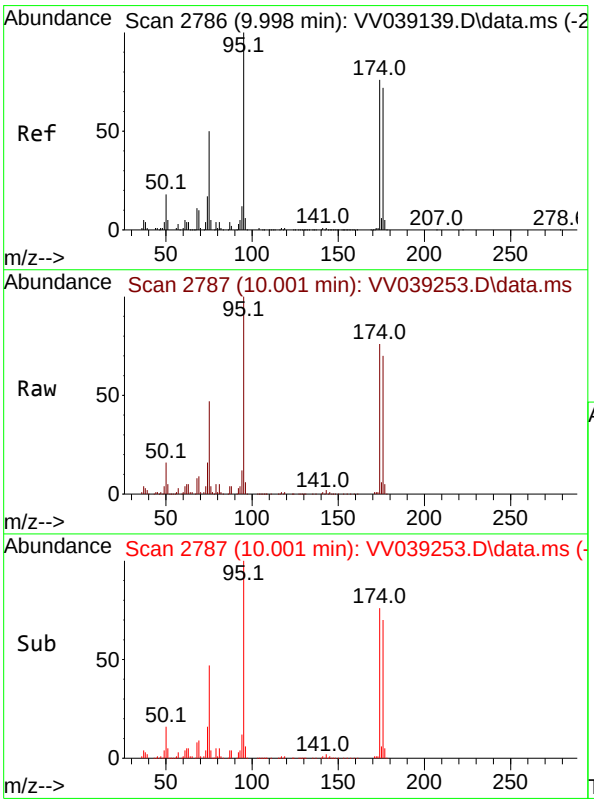
#50
Toluene-d8
Concen: 46.741 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Tgt Ion: 98 Resp: 568796

Ion	Ratio	Lower	Upper
98	100		
100	62.7	52.2	78.2

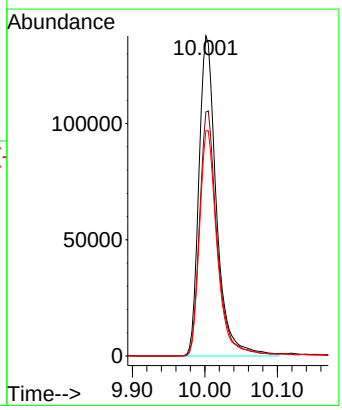


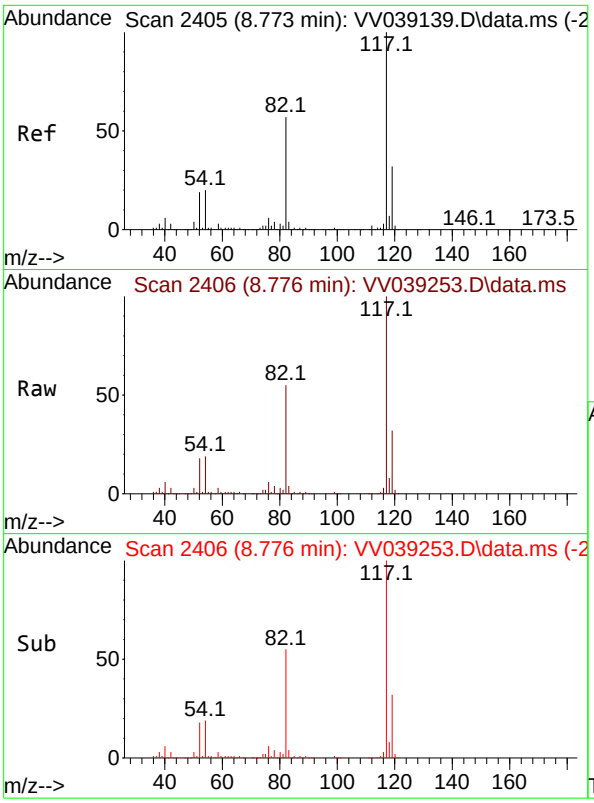


#62
4-Bromofluorobenzene
Concen: 46.159 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 95 Resp: 231239

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	150.4
176	71.2	0.0	144.2



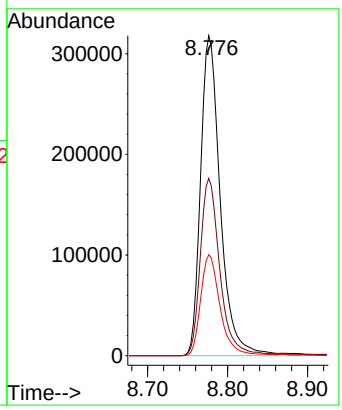


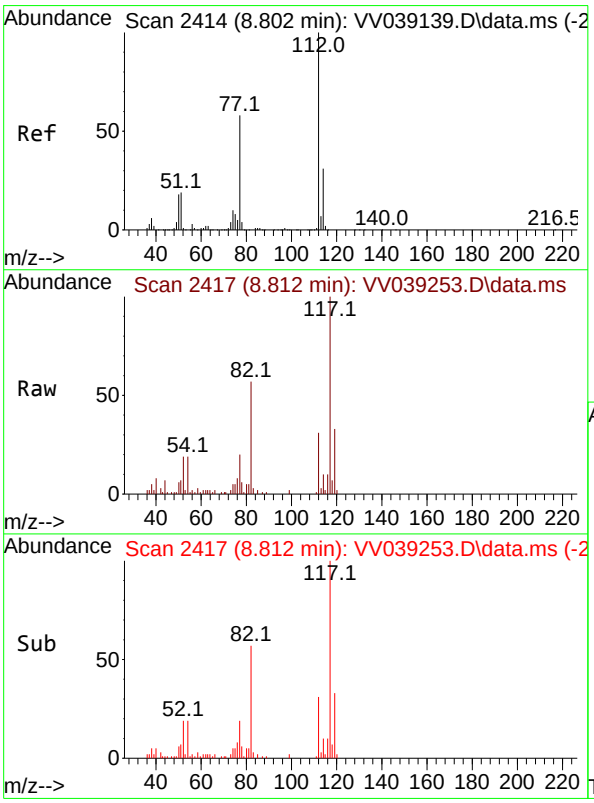
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Tgt Ion:117 Resp: 544820

Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.4	68.2
119	31.6	25.6	38.4

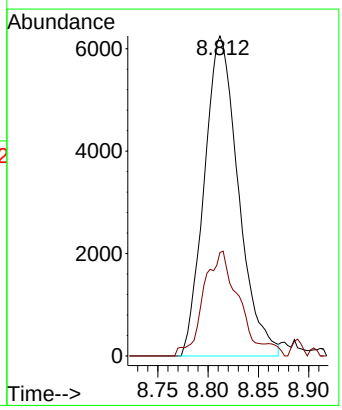


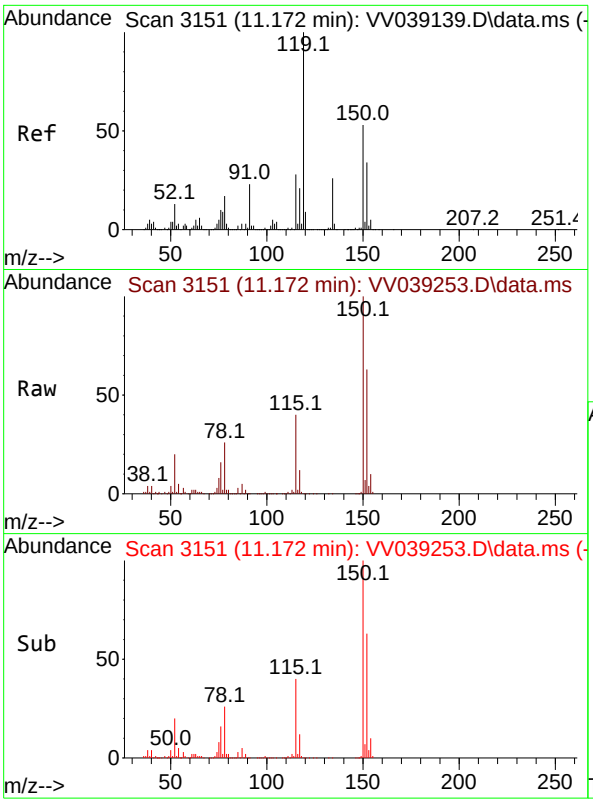


#65
Chlorobenzene
Concen: 0.971 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion:112 Resp: 14731

Ion	Ratio	Lower	Upper
112	100		
114	29.9	24.6	37.0



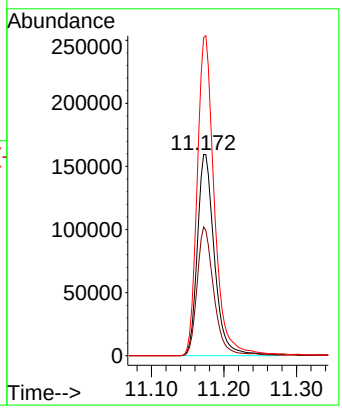


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Tgt Ion:152 Resp: 261173

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.8	134.4
150	159.8	0.0	353.8



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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-3	SDG No.:	Q3254
Lab Sample ID:	Q3254-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039254.D	1	10/03/25 16:56	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-3	SDG No.:	Q3254
Lab Sample ID:	Q3254-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039254.D	1	10/03/25 16:56	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.4		74 - 125	117%	SPK: 50
1868-53-7	Dibromofluoromethane	56.4		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	45.2		86 - 113	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.3		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	448000	4.603			
540-36-3	1,4-Difluorobenzene	801000	5.535			
3114-55-4	Chlorobenzene-d5	824000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	400000	11.172			

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_V\DATA\VV100325\
Data File : VV039254.D
Acq On : 03 Oct 2025 16:56
Operator : SY/MD
Sample : Q3254-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Quant Time: Oct 04 01:13:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

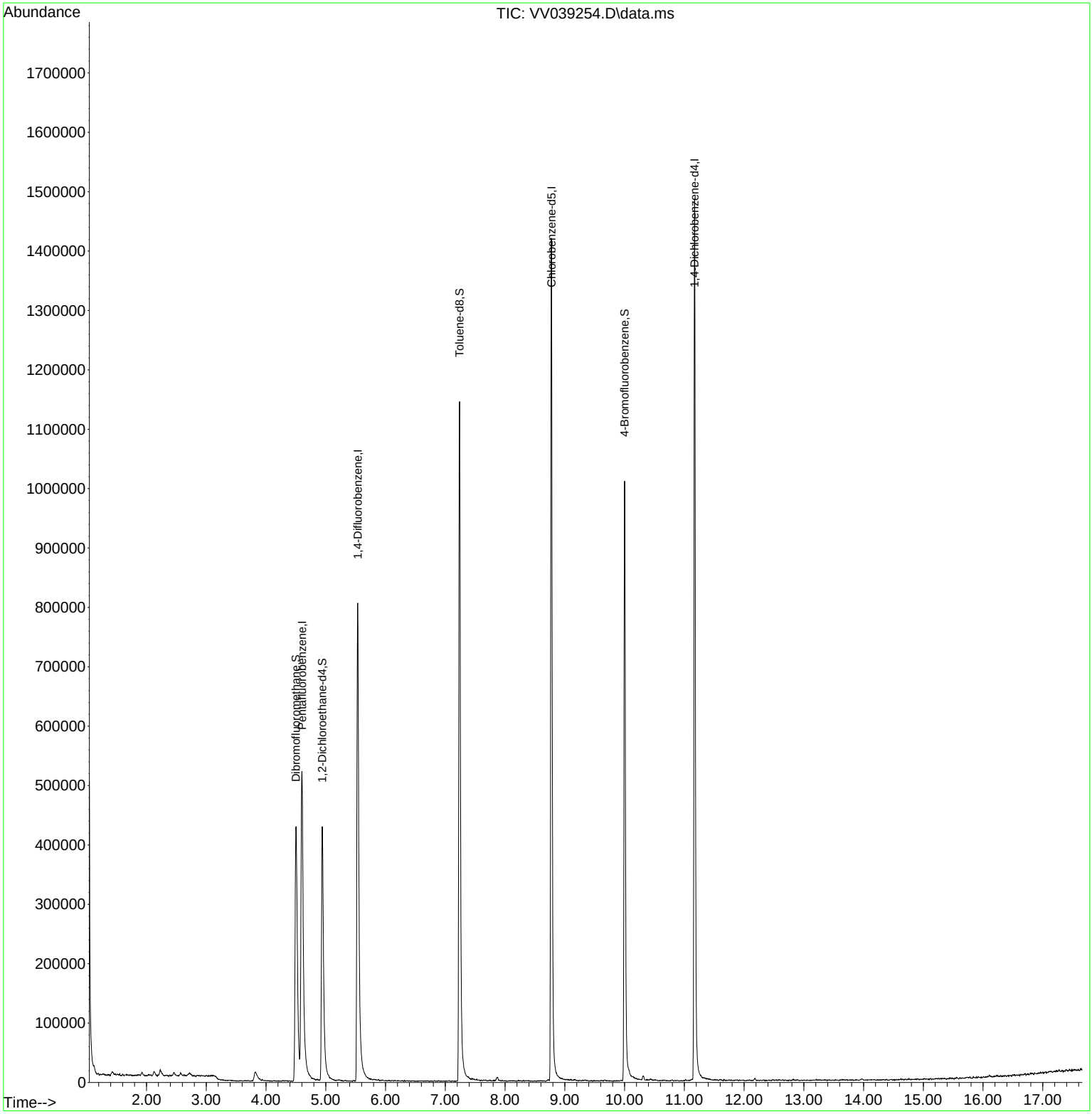
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	448224	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	801027	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	823576	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	400173	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	378692	58.376	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 116.760%			
35) Dibromofluoromethane	4.503	113	363392	56.431	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 112.860%			
50) Toluene-d8	7.239	98	854565	45.183	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.360%			
62) 4-Bromofluorobenzene	10.001	95	352316	45.250	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.500%			
Target Compounds						Qvalue

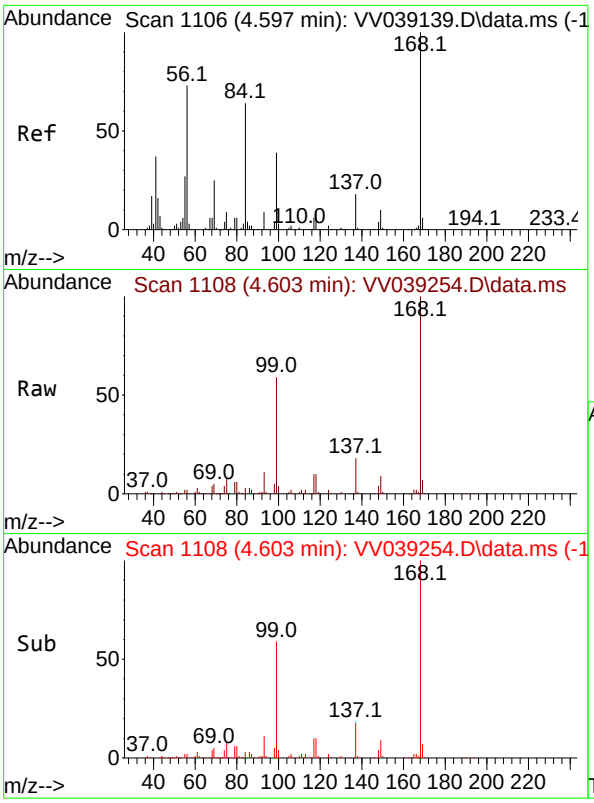
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039254.D
Acq On : 03 Oct 2025 16:56
Operator : SY/MD
Sample : Q3254-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Quant Time: Oct 04 01:13:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



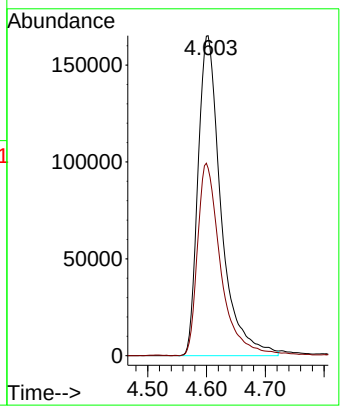


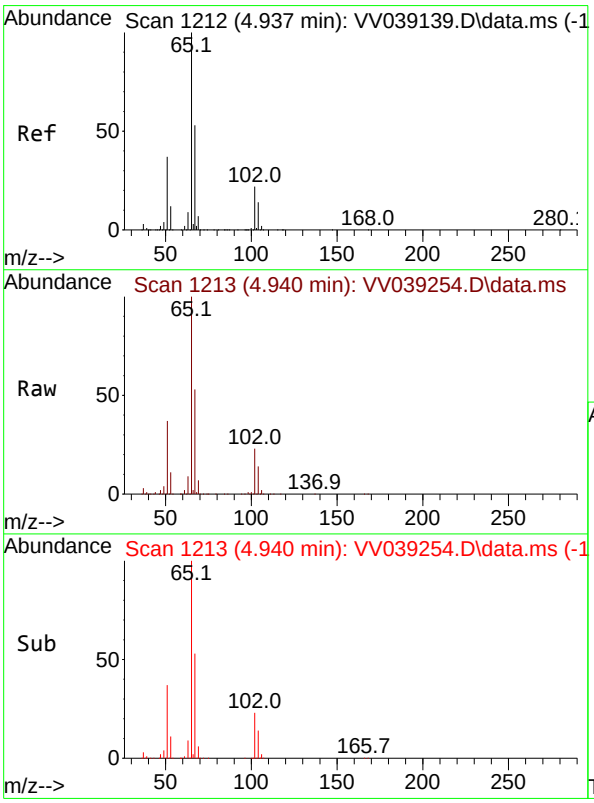
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Tgt Ion:168 Resp: 448224

Ion	Ratio	Lower	Upper
168	100		
99	58.5	49.6	74.4

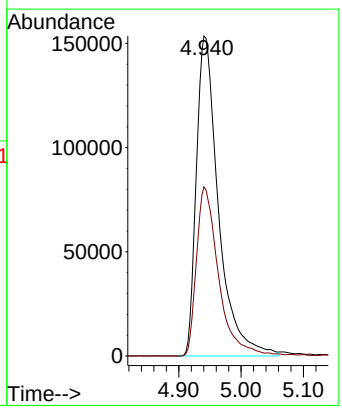


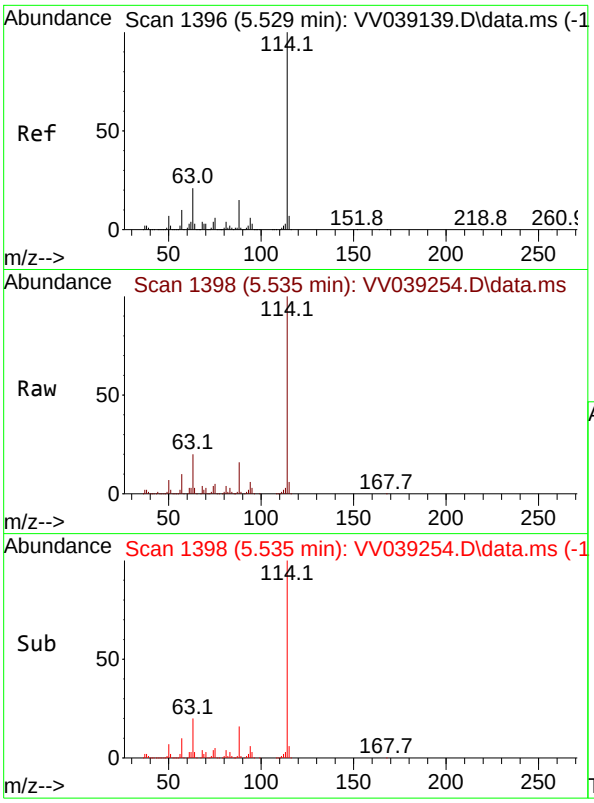


#33
1,2-Dichloroethane-d4
Concen: 58.376 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 65 Resp: 378692

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	107.0



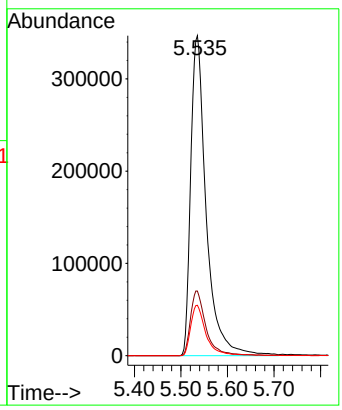


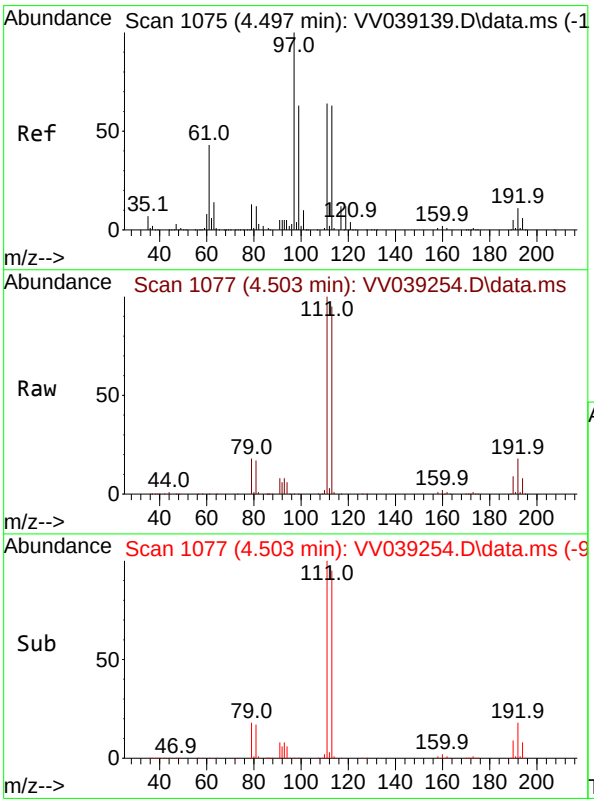
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Tgt Ion:114 Resp: 801027

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.8	0.0	30.8

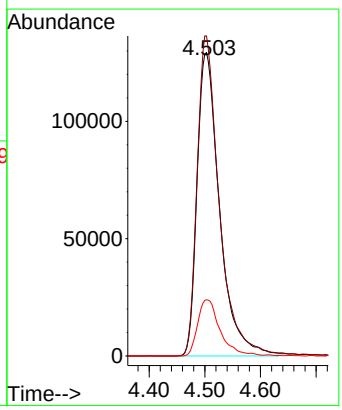


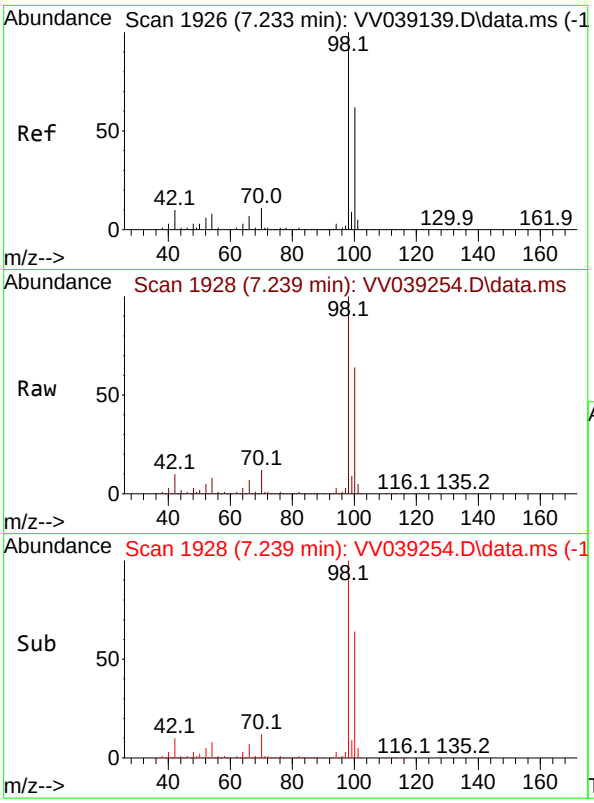


#35
Dibromofluoromethane
Concen: 56.431 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion:113 Resp: 363392

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	18.4	13.8	20.8



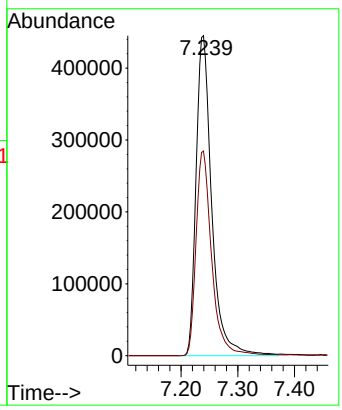


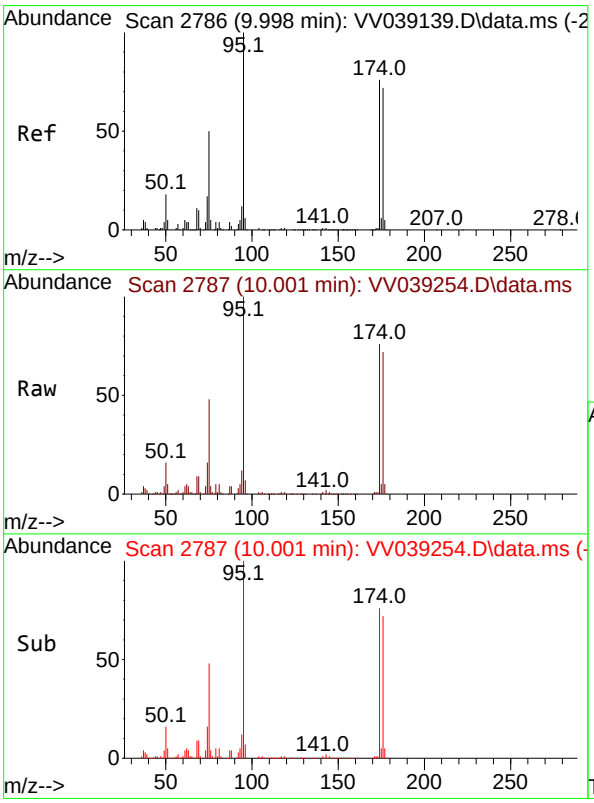
#50
Toluene-d8
Concen: 45.183 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Tgt Ion: 98 Resp: 854565

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.2	78.2

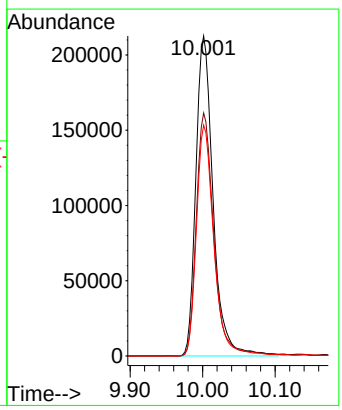


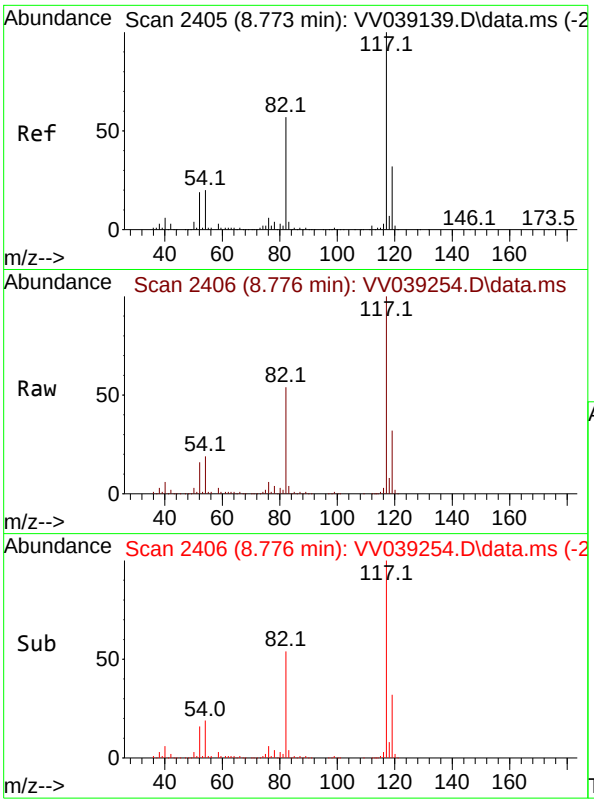


#62
4-Bromofluorobenzene
Concen: 45.250 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 95 Resp: 352316

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	150.4
176	72.7	0.0	144.2



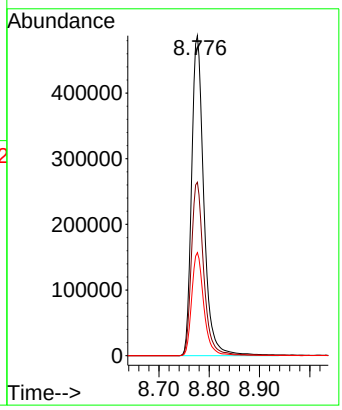


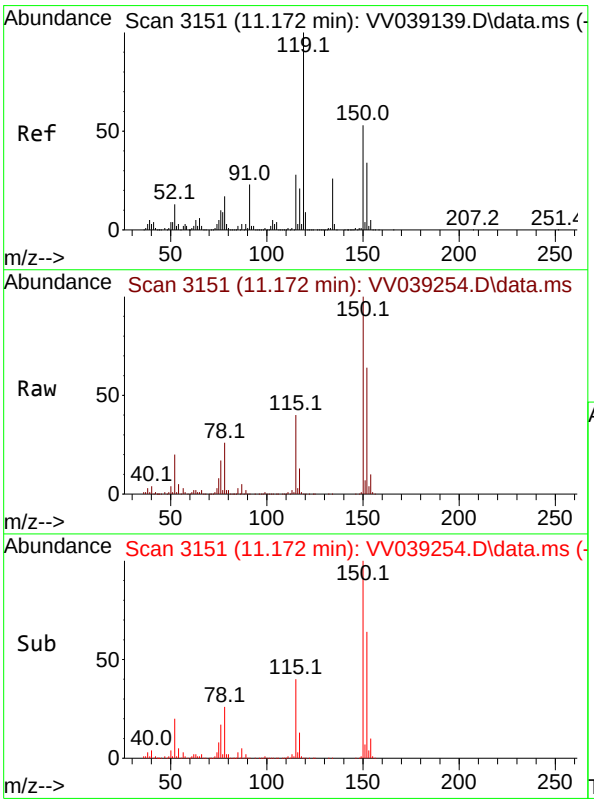
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Tgt Ion:117 Resp: 823576

Ion	Ratio	Lower	Upper
117	100		
82	54.2	45.4	68.2
119	32.2	25.6	38.4

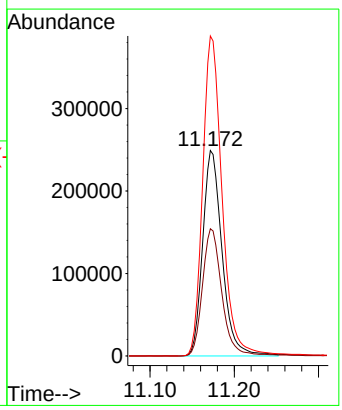




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion:152 Resp: 400173

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.8	134.4
150	157.1	0.0	353.8



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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-4	SDG No.:	Q3254
Lab Sample ID:	Q3254-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039255.D	1	10/03/25 17:19	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.71	J	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	MW-4	SDG No.:	Q3254
Lab Sample ID:	Q3254-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039255.D	1	10/03/25 17:19	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.5		74 - 125	115%	SPK: 50
1868-53-7	Dibromofluoromethane	57.4		75 - 124	115%	SPK: 50
2037-26-5	Toluene-d8	45.6		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	393000	4.603			
540-36-3	1,4-Difluorobenzene	674000	5.535			
3114-55-4	Chlorobenzene-d5	694000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	336000	11.172			

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_V\DATA\VV100325\
Data File : VV039255.D
Acq On : 03 Oct 2025 17:19
Operator : SY/MD
Sample : Q3254-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Quant Time: Oct 04 01:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

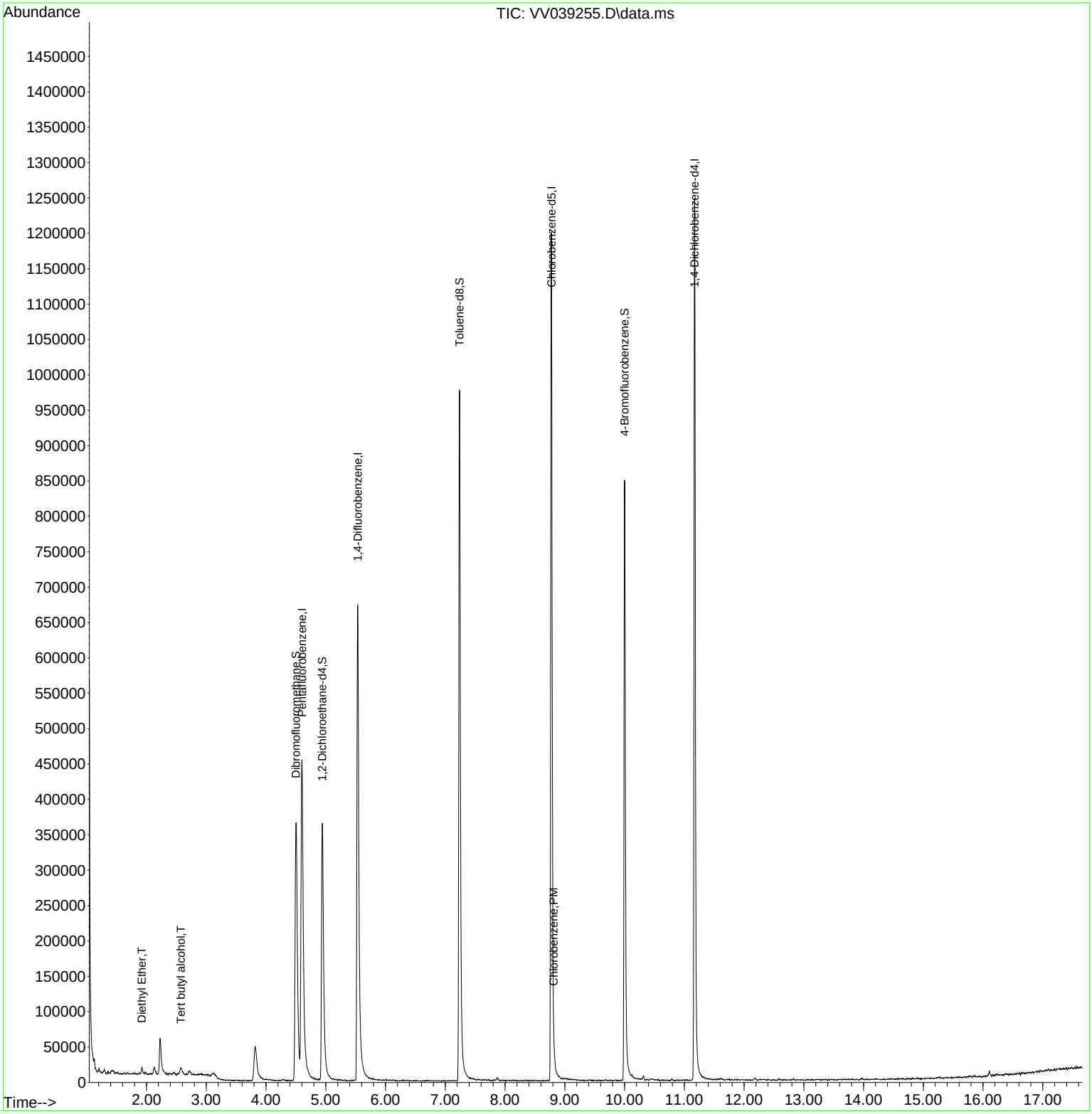
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	392891	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	674176	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	694020	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	336486	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	326864	57.483	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 114.960%			
35) Dibromofluoromethane	4.503	113	311029	57.387	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 114.780%			
50) Toluene-d8	7.240	98	725743	45.592	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.180%			
62) 4-Bromofluorobenzene	10.002	95	295807	45.140	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.280%			
Target Compounds						Qvalue
8) Diethyl Ether	1.921	74	3639	0.947	ug/l	94
11) Tert butyl alcohol	2.577	59	8573	7.133	ug/l	99
65) Chlorobenzene	8.815	112	13694	0.708	ug/l #	86

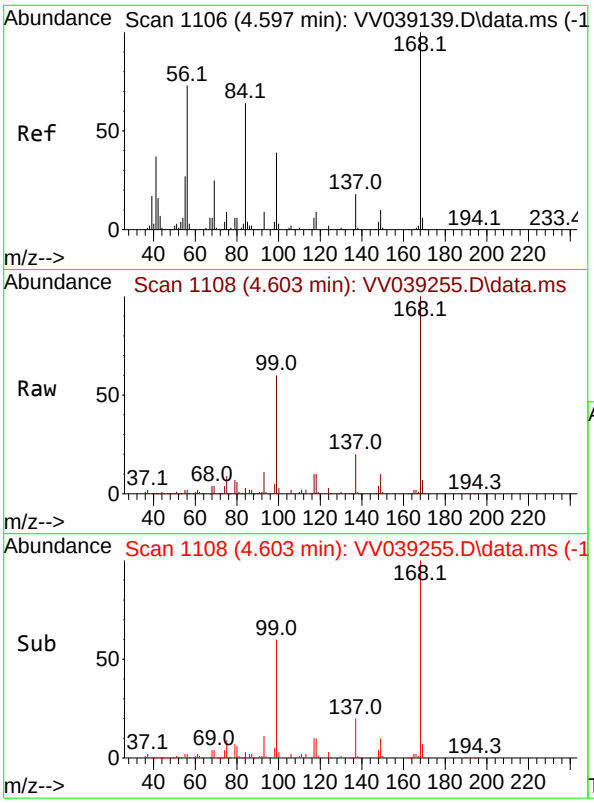
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039255.D
Acq On : 03 Oct 2025 17:19
Operator : SY/MD
Sample : Q3254-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Quant Time: Oct 04 01:14:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



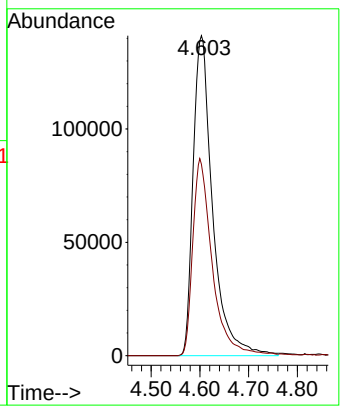


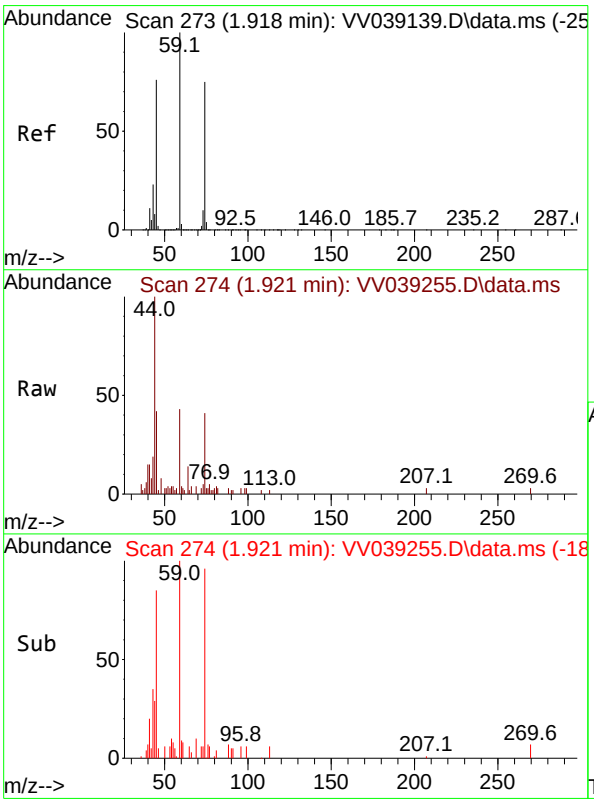
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Tgt Ion:168 Resp: 392891

Ion	Ratio	Lower	Upper
168	100		
99	59.9	49.6	74.4

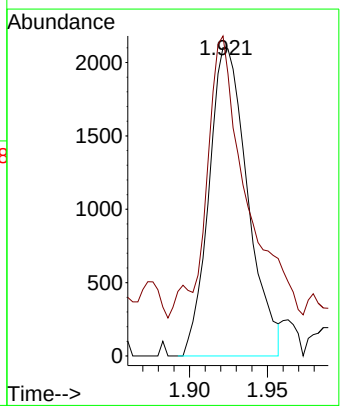


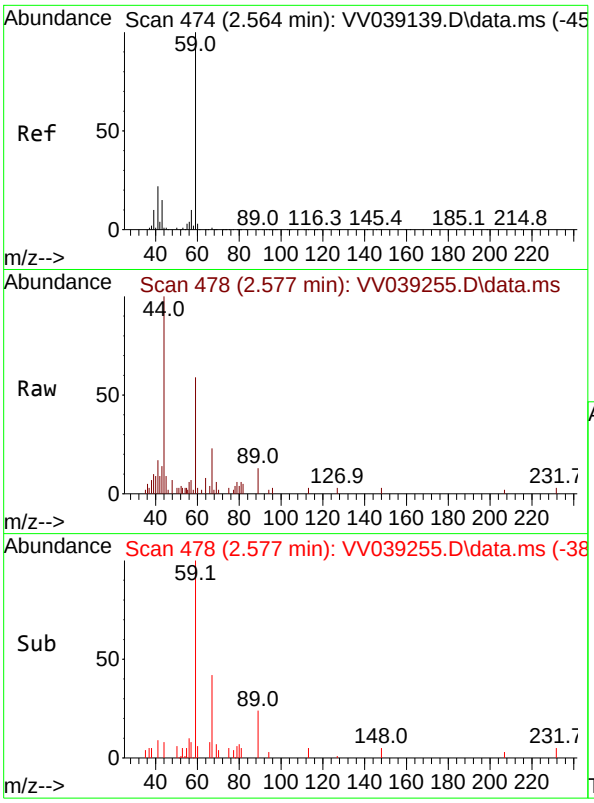


#8
Diethyl Ether
Concen: 0.947 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 74 Resp: 3639

Ion	Ratio	Lower	Upper
74	100		
45	93.2	49.6	148.8



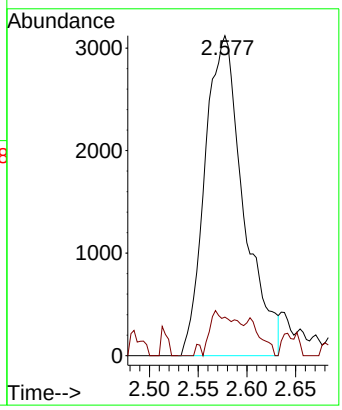


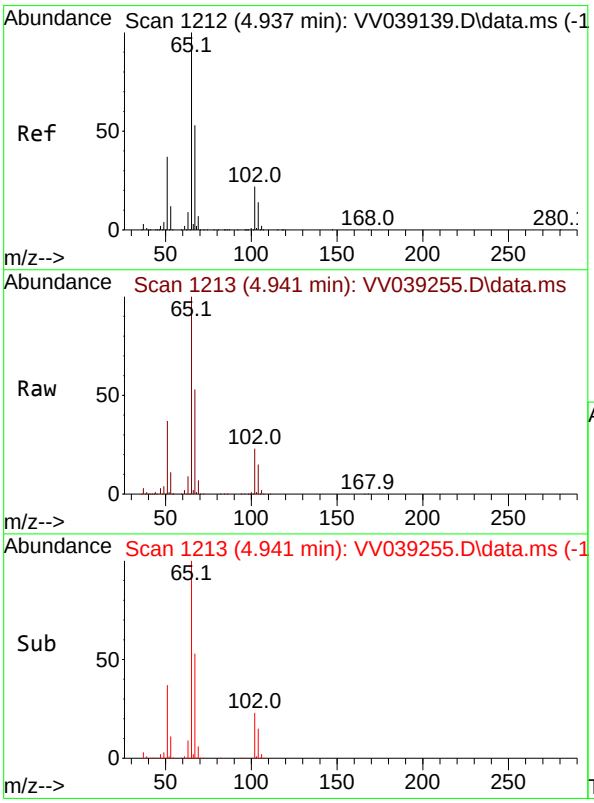
#11
Tert butyl alcohol
Concen: 7.133 ug/l
RT: 2.577 min Scan# 4
Delta R.T. 0.013 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Tgt Ion: 59 Resp: 8573

Ion	Ratio	Lower	Upper
59	100		
57	10.1	7.8	11.8

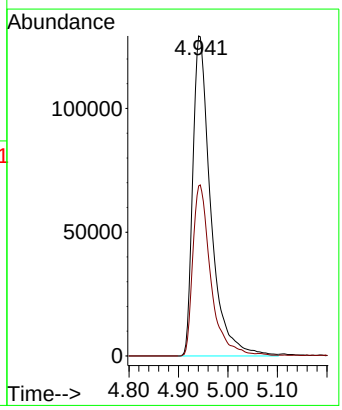


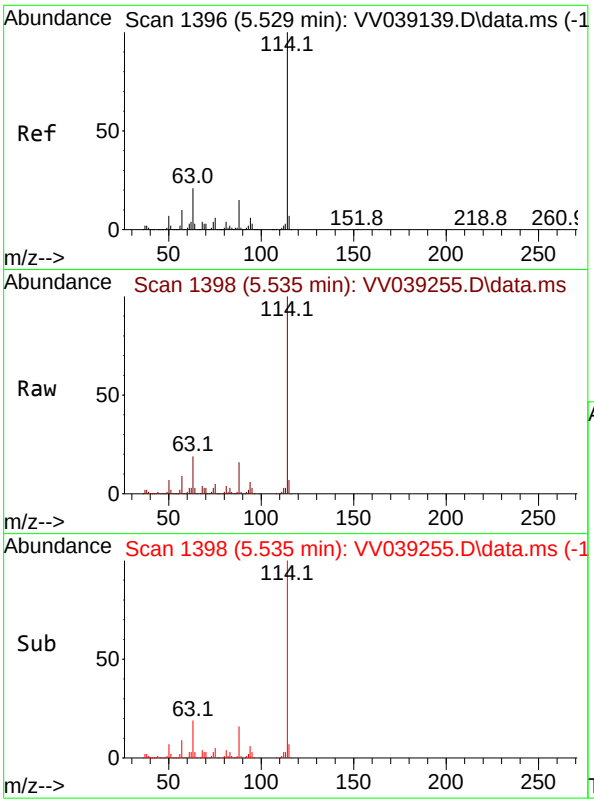


#33
1,2-Dichloroethane-d4
Concen: 57.483 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 65 Resp: 326864

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	107.0



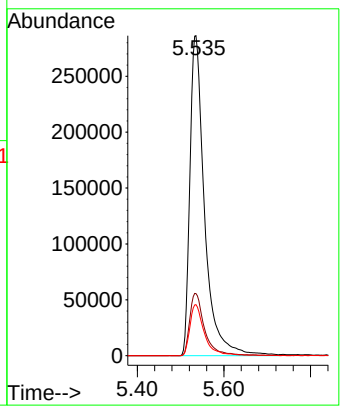


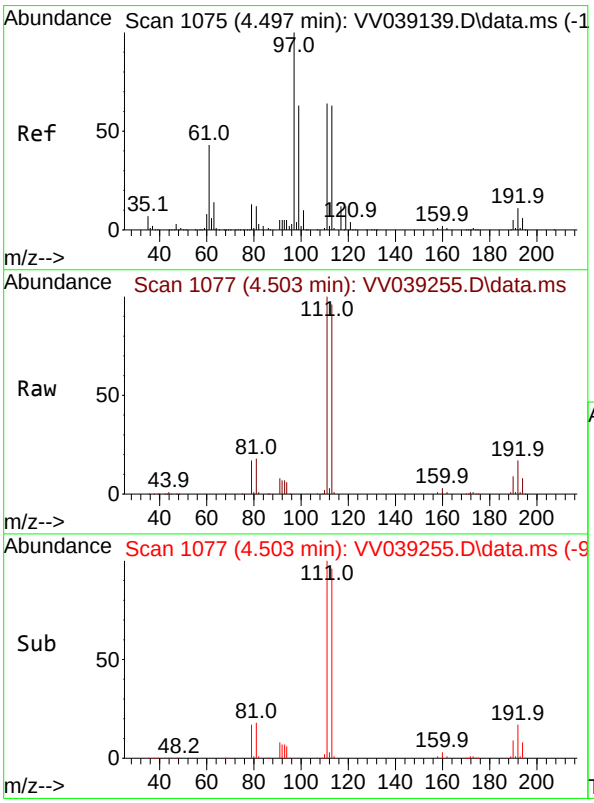
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Tgt Ion:114 Resp: 674176

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.6
88	16.0	0.0	30.8

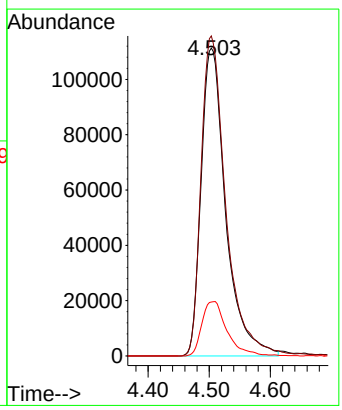


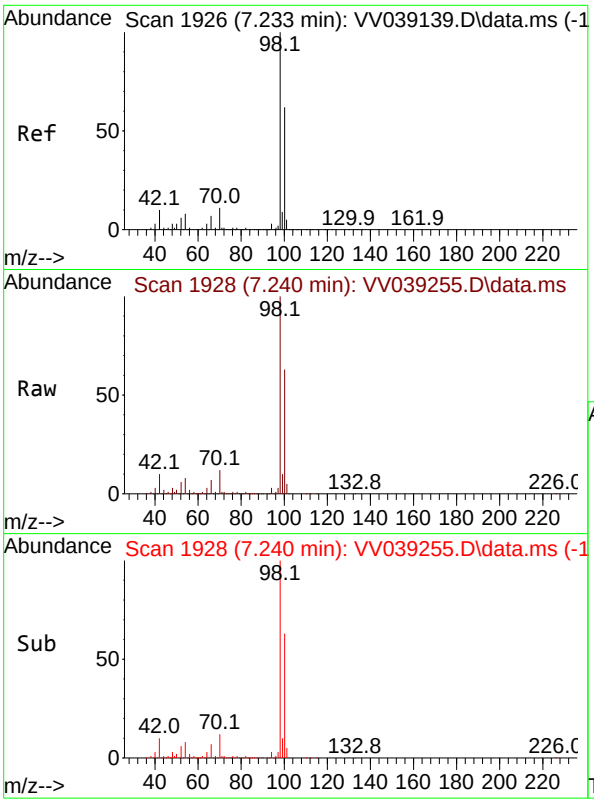


#35
Dibromofluoromethane
Concen: 57.387 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion:113 Resp: 311029

Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.4	123.6
192	18.0	13.8	20.8



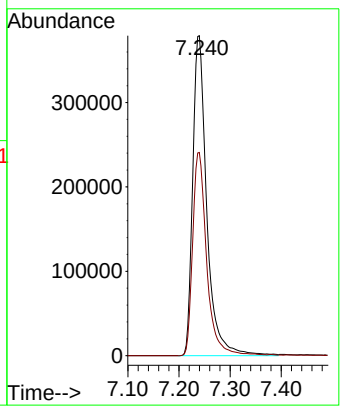


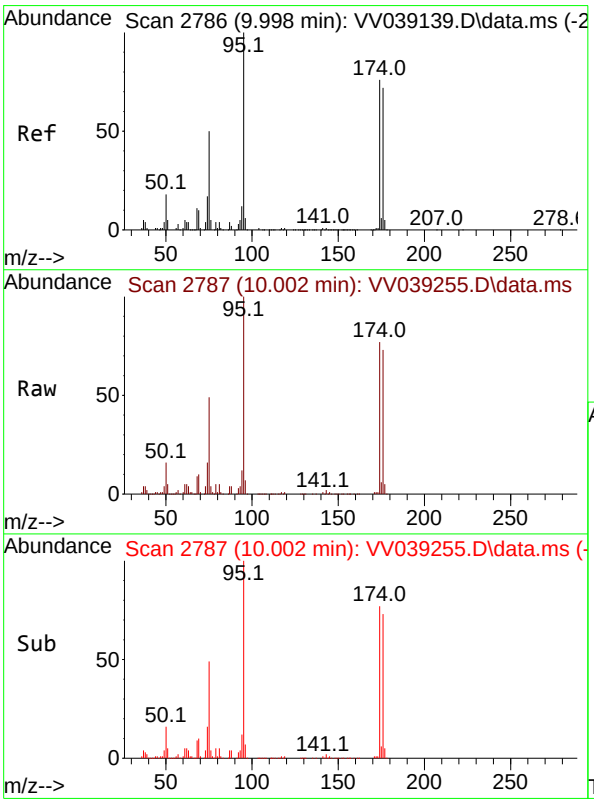
#50
Toluene-d8
Concen: 45.592 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Tgt Ion: 98 Resp: 725743

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.2

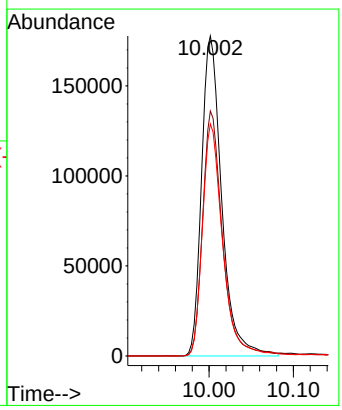


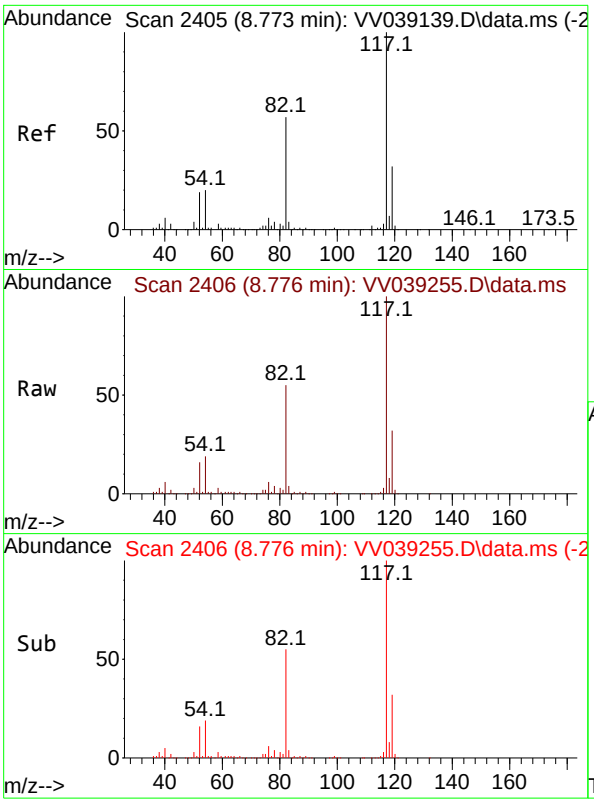


#62
4-Bromofluorobenzene
Concen: 45.140 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion: 95 Resp: 295807

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	150.4
176	72.8	0.0	144.2



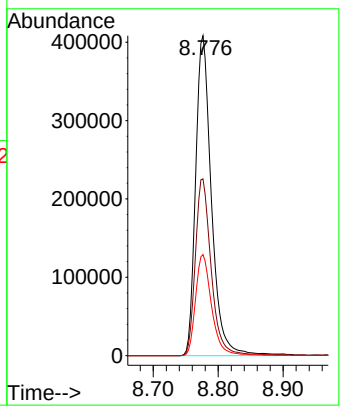


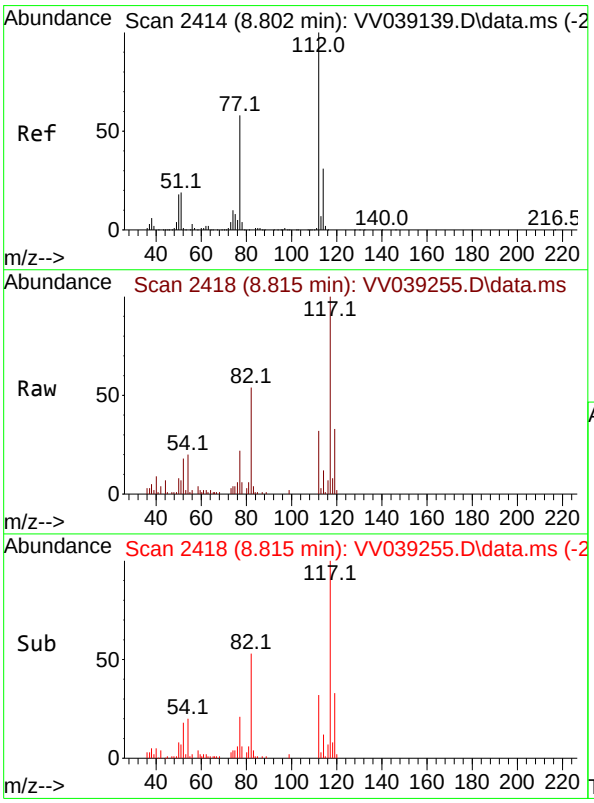
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Tgt Ion:117 Resp: 694020

Ion	Ratio	Lower	Upper
117	100		
82	55.2	45.4	68.2
119	31.6	25.6	38.4

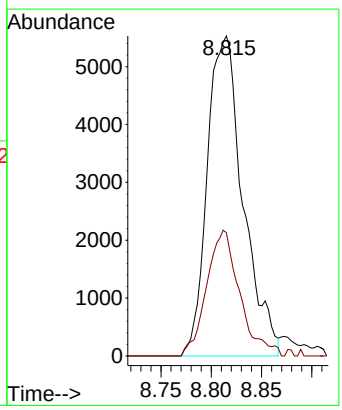


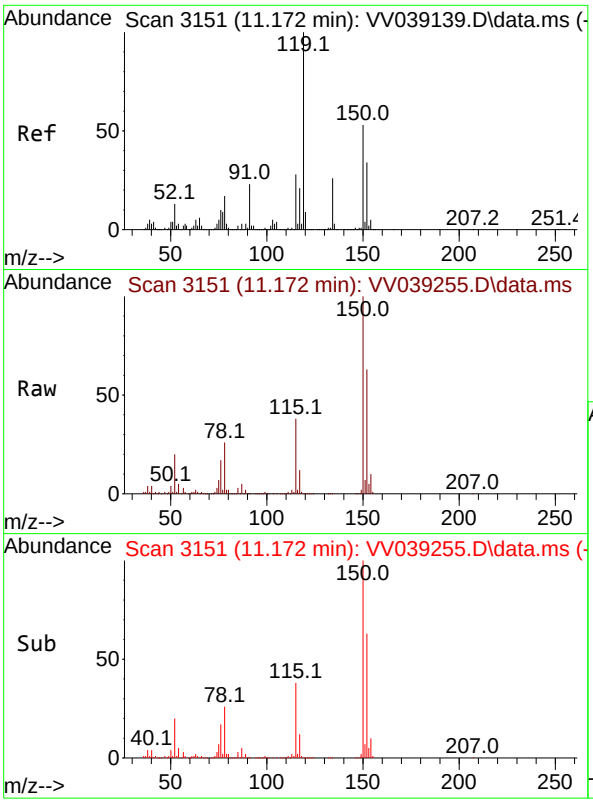


#65
Chlorobenzene
Concen: 0.708 ug/l
RT: 8.815 min Scan# 2418
Delta R.T. 0.013 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Tgt Ion:112 Resp: 13694

Ion	Ratio	Lower	Upper
112	100		
114	38.6	24.6	37.0#



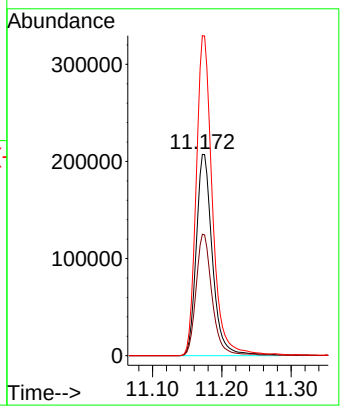


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039255.D
Acq: 03 Oct 2025 17:19

Instrument :
MSVOA_V
ClientSampleId :
MW-4

Tgt Ion:152 Resp: 336486

Ion	Ratio	Lower	Upper
152	100		
115	60.1	44.8	134.4
150	158.8	0.0	353.8



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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	TRIP-BLANK	SDG No.:	Q3254
Lab Sample ID:	Q3254-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039251.D	1	10/03/25 15:49	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	09/29/25
Project:	Ansonia Landfill 2025	Date Received:	09/30/25
Client Sample ID:	TRIP-BLANK	SDG No.:	Q3254
Lab Sample ID:	Q3254-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039251.D	1	10/03/25 15:49	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	UQ	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.2		74 - 125	116%	SPK: 50
1868-53-7	Dibromofluoromethane	58.9		75 - 124	118%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	330000	4.603			
540-36-3	1,4-Difluorobenzene	558000	5.535			
3114-55-4	Chlorobenzene-d5	580000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	279000	11.175			

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_V\DATA\VV100325\
Data File : VV039251.D
Acq On : 03 Oct 2025 15:49
Operator : SY/MD
Sample : Q3254-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Quant Time: Oct 04 01:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

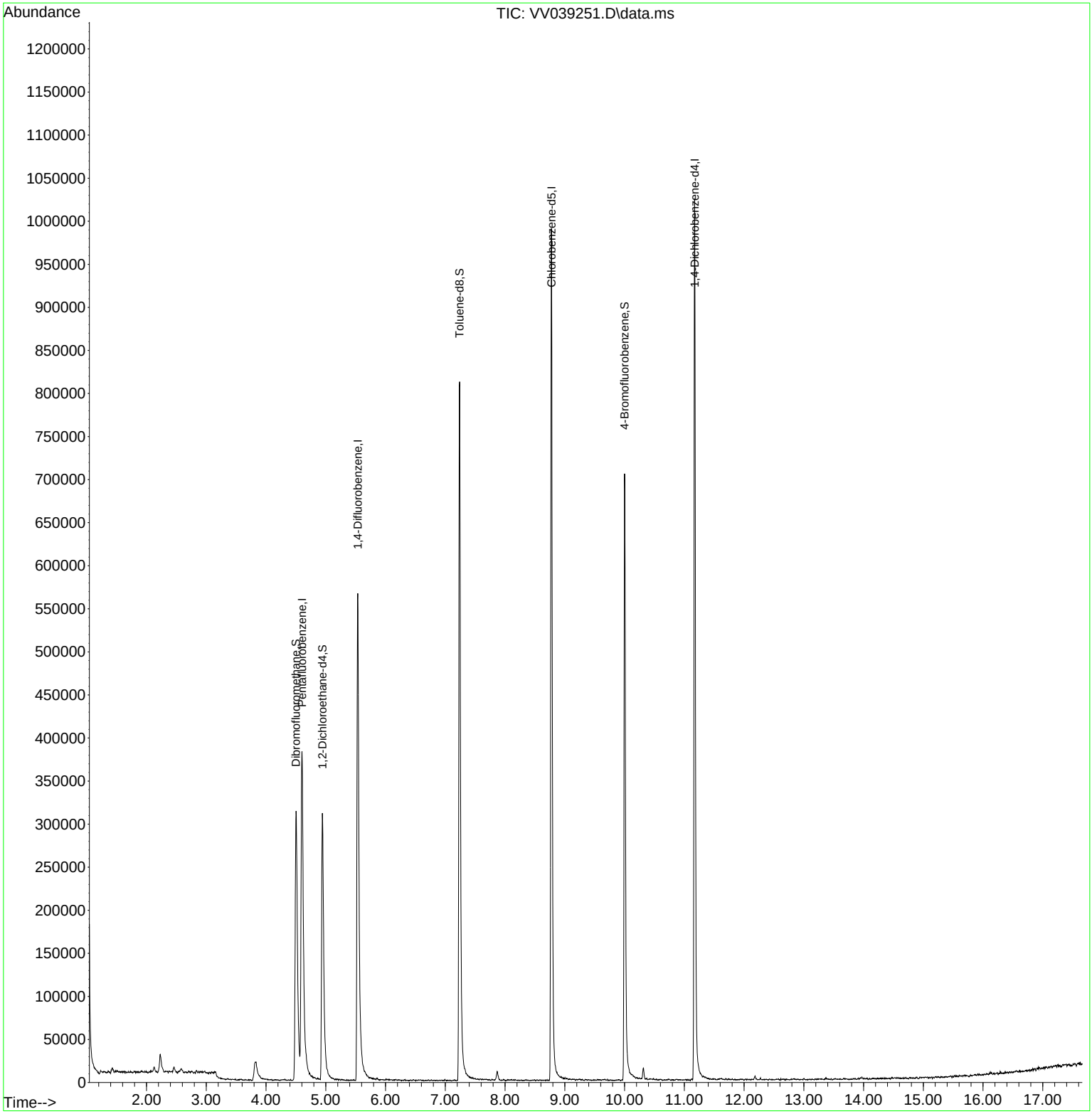
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	330074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	558191	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	580452	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	279370	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	278062	58.207	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 116.420%			
35) Dibromofluoromethane	4.503	113	264283	58.894	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 117.780%			
50) Toluene-d8	7.239	98	603656	45.802	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.600%			
62) 4-Bromofluorobenzene	10.001	95	241901	44.585	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.160%			
Target Compounds						Qvalue

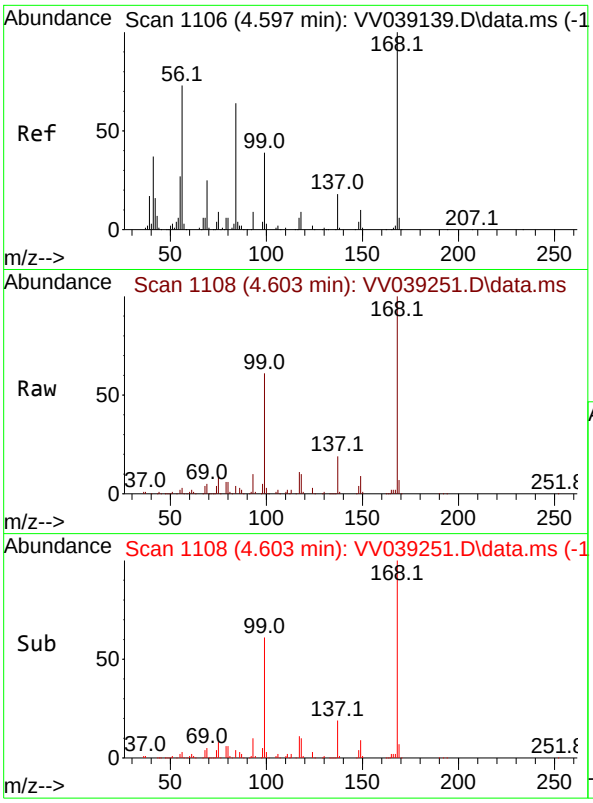
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039251.D
Acq On : 03 Oct 2025 15:49
Operator : SY/MD
Sample : Q3254-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Quant Time: Oct 04 01:12:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



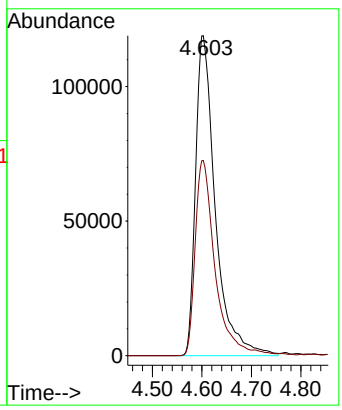


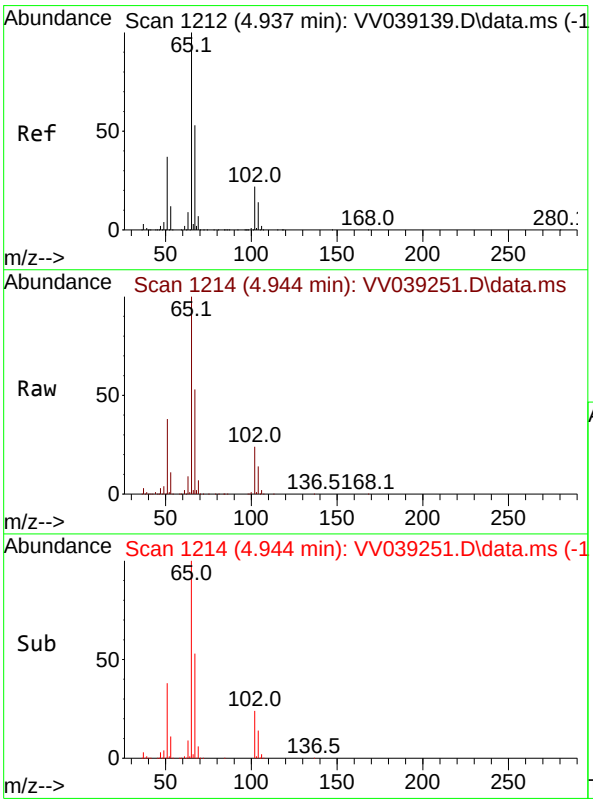
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Tgt Ion:168 Resp: 330074

Ion	Ratio	Lower	Upper
168	100		
99	60.9	49.6	74.4

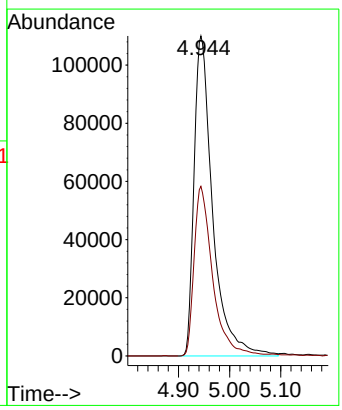


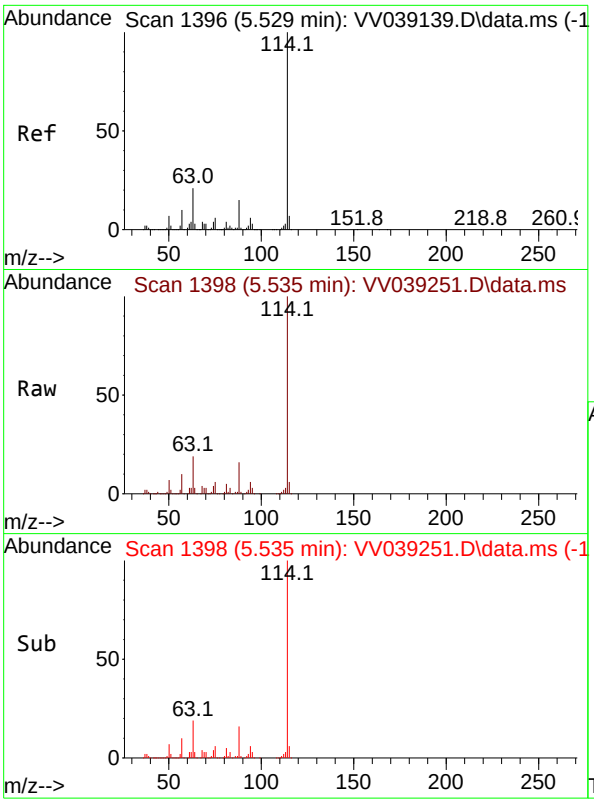


#33
1,2-Dichloroethane-d4
Concen: 58.207 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 65 Resp: 278062

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	107.0



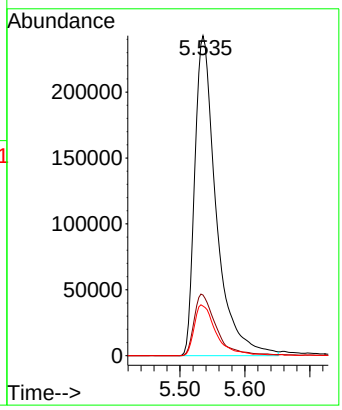


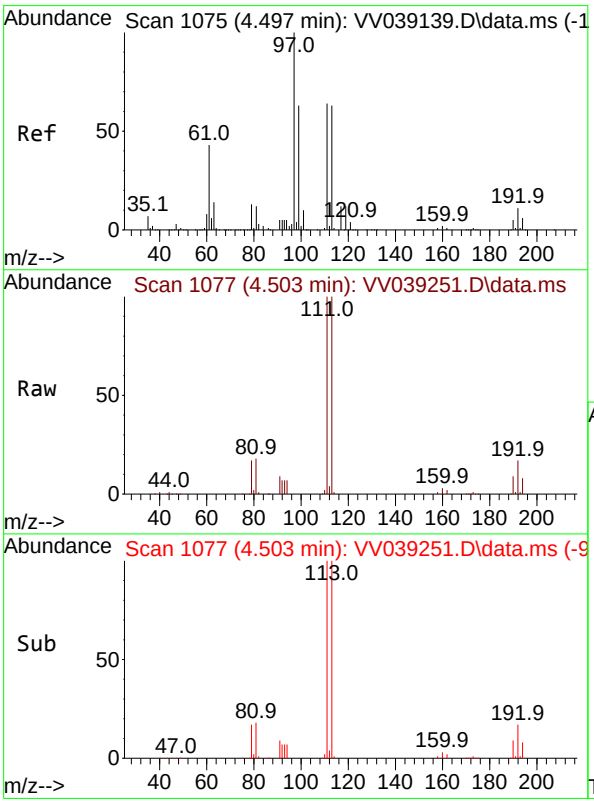
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Tgt Ion:114 Resp: 558191

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	42.6
88	15.5	0.0	30.8

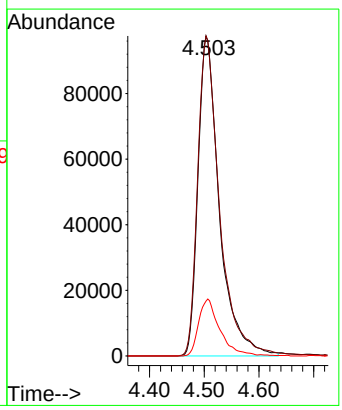


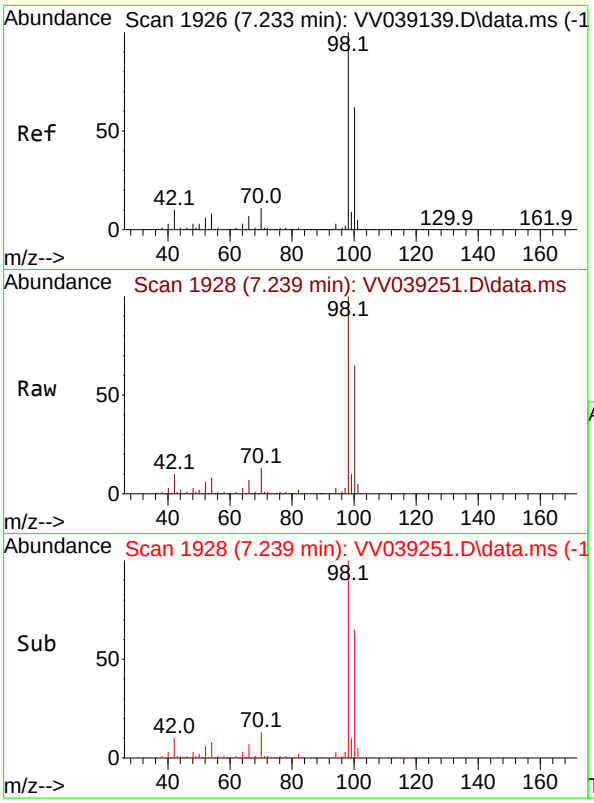


#35
Dibromofluoromethane
Concen: 58.894 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion:113 Resp: 264283

Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.4	123.6
192	17.5	13.8	20.8



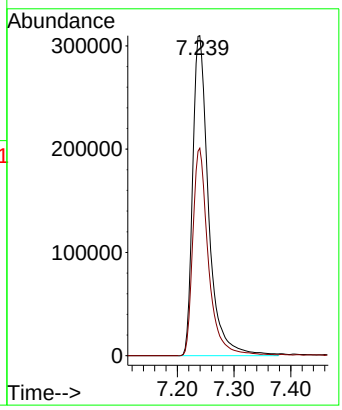


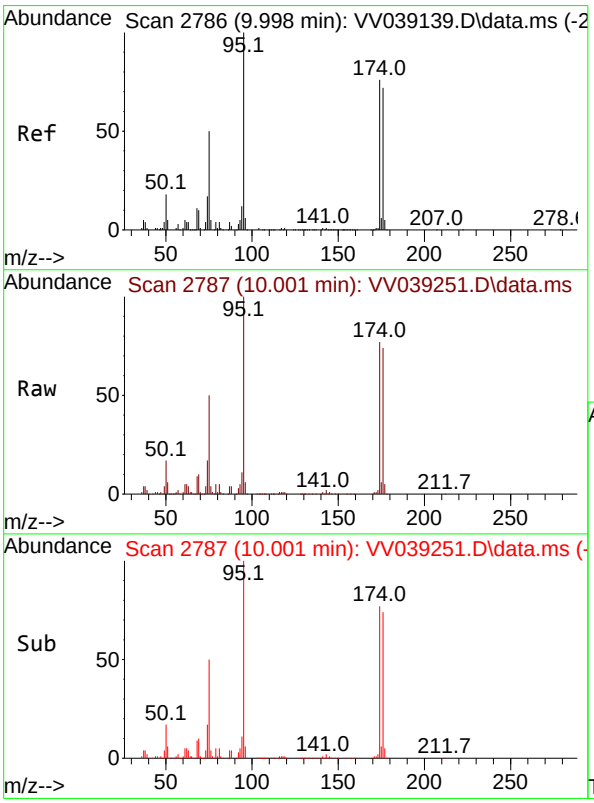
#50
Toluene-d8
Concen: 45.802 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Tgt Ion: 98 Resp: 603656

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.2	78.2

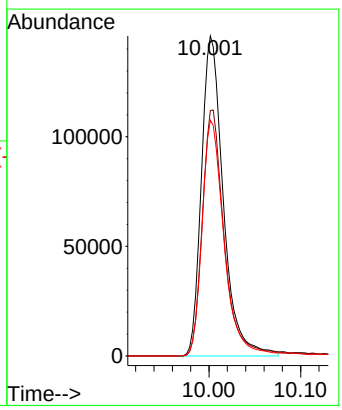


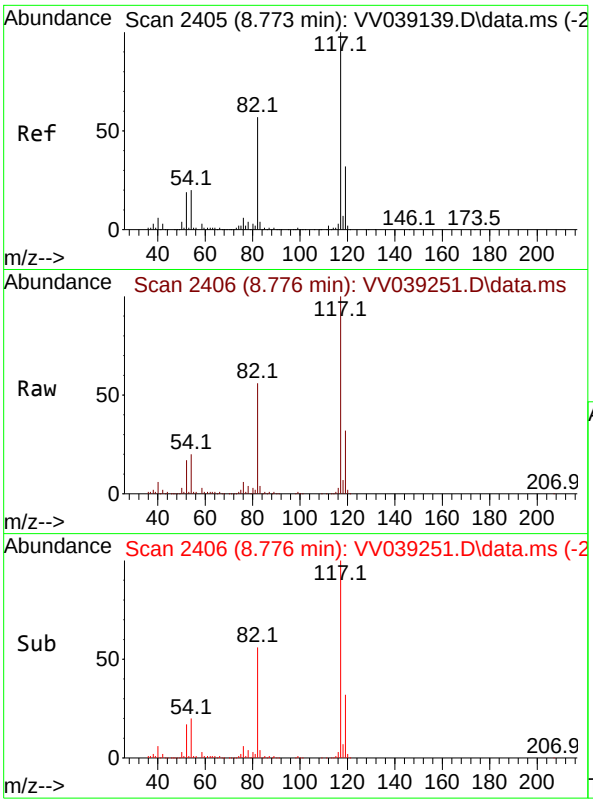


#62
4-Bromofluorobenzene
Concen: 44.585 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion: 95 Resp: 241901

Ion	Ratio	Lower	Upper
95	100		
174	77.3	0.0	150.4
176	74.6	0.0	144.2



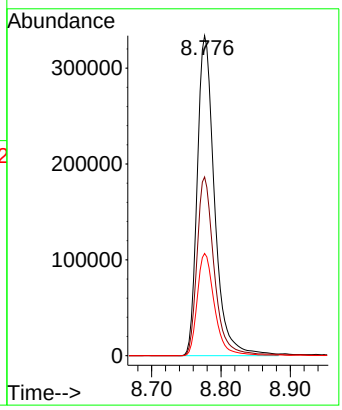


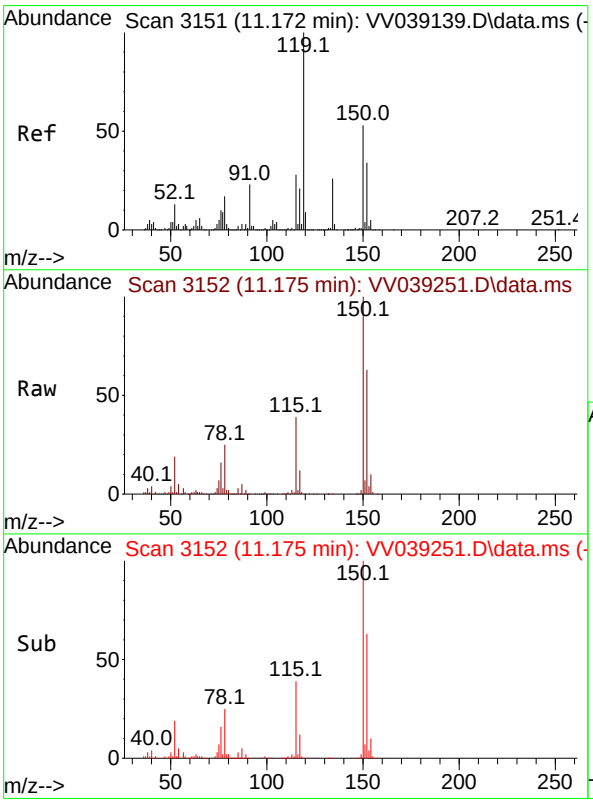
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Instrument :
MSVOA_V
ClientSampleId :
TRIP-BLANK

Tgt Ion:117 Resp: 580452

Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.4	68.2
119	32.0	25.6	38.4

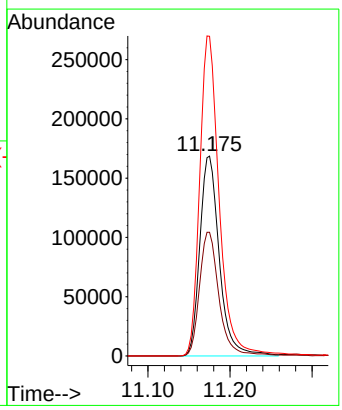




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039251.D
Acq: 03 Oct 2025 15:49

Tgt Ion:152 Resp: 279370

Ion	Ratio	Lower	Upper
152	100		
115	62.0	44.8	134.4
150	160.9	0.0	353.8



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: LOCK01

Lab Code: ACE SDG No.: Q3254

Instrument ID: MSVOA_V Calibration Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35

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

LAB FILE ID: RRF010 = VV039137.D RRF020 = VV039138.D RRF050 = VV039139.D
RRF100 = VV039140.D RRF005 = VV039142.D RRF001 = VV039143.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF005	RRF001	$\overline{RRF}$	% RSD
Vinyl Chloride	1.007	0.856	0.836	0.801	0.932	1.026	0.910	10.3
Chloroethane	0.662	0.568	0.533	0.500	0.606	0.915	0.631	23.8
Trichlorofluoromethane	1.394	1.253	1.193	1.151	1.365	1.546	1.317	11.2
1,1-Dichloroethene	0.804	0.721	0.674	0.663	0.789	0.873	0.754	10.9
Acrylonitrile	0.507	0.462	0.436	0.427	0.522	0.587	0.490	12.4
Acetone	0.537	0.458	0.449	0.414	0.569	0.712	0.523	20.8
Carbon Disulfide	2.453	2.181	2.081	1.986	2.462	2.670	2.306	11.4
Methylene Chloride	0.930	0.848	0.779	0.742	1.113	1.987	1.066	44
Vinyl Acetate	2.393	2.241	2.204	2.128	2.313	2.243	2.254	4
2-Butanone	0.604	0.584	0.586	0.580	0.570	0.554	0.579	2.9
Carbon Tetrachloride	0.742	0.710	0.703	0.675	0.736	0.890	0.743	10.2
cis-1,2-Dichloroethene	0.908	0.842	0.868	0.860	0.832	1.001	0.885	7.1
Bromochloromethane	0.836	0.753	0.679	0.637	0.525	0.743	0.696	15.5
Chloroform	1.752	1.570	1.490	1.433	1.746	1.880	1.645	10.6
1,1,1-Trichloroethane	1.562	1.321	1.298	1.263	1.513	1.590	1.424	10.3
Benzene	2.077	1.978	1.990	1.931	1.963	1.936	1.979	2.7
1,2-Dichloropropane	0.509	0.519	0.502	0.486	0.471	0.465	0.492	4.4
Dibromomethane	0.392	0.367	0.368	0.354	0.381	0.396	0.376	4.4
Bromodichloromethane	0.832	0.764	0.753	0.725	0.767	0.829	0.778	5.5
4-Methyl-2-Pentanone	0.715	0.736	0.732	0.714	0.613	0.459	0.661	16.5
Toluene	1.211	1.199	1.229	1.214	1.130	0.901	1.147	10.9
t-1,3-Dichloropropene	0.701	0.696	0.728	0.753	0.645	0.548	0.678	10.8
cis-1,3-Dichloropropene	0.803	0.777	0.811	0.803	0.704	0.595	0.749	11.4
2-Hexanone	0.505	0.534	0.546	0.533	0.429	0.231	0.463	26.2
Dibromochloromethane	0.605	0.570	0.567	0.558	0.598	0.620	0.586	4.2
1,2-Dibromoethane	0.556	0.538	0.529	0.514	0.535	0.484	0.526	4.7
Tetrachloroethene	0.435	0.412	0.412	0.407	0.431	0.415	0.419	2.7
Chlorobenzene	1.403	1.368	1.383	1.358	1.417	1.428	1.393	2
1,1,1,2-Tetrachloroethane	0.520	0.488	0.488	0.477	0.504	0.543	0.503	4.8
Ethyl Benzene	2.028	2.143	2.382	2.418	1.953	1.725	2.108	12.5

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: LOCK01

Lab Code: ACE SDG No.: Q3254

Instrument ID: MSVOA_V Calibration Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35

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

LAB FILE ID: RRF010 = VV039137.D RRF020 = VV039138.D RRF050 = VV039139.D
RRF100 = VV039140.D RRF005 = VV039142.D RRF001 = VV039143.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF005	RRF001	$\overline{RRF}$	% RSD
m/p-Xylenes	0.820	0.882	0.949	0.938	0.713	0.580	0.814	17.7
o-Xylene	0.703	0.742	0.846	0.880	0.635	0.518	0.720	18.7
Styrene	1.239	1.381	1.553	1.537	1.038	0.828	1.263	22.8
Bromoform	0.396	0.384	0.396	0.400	0.385	0.397	0.393	1.7
1,1,2,2-Tetrachloroethane	1.600	1.461	1.425	1.389	1.684	1.975	1.589	13.8
1,2,3-Trichloropropane	1.136	1.048	1.049	1.023	1.201	1.375	1.138	11.7
1,4-Dichlorobenzene	2.070	1.951	1.934	1.919	2.139	2.522	2.089	11
1,2-Dichlorobenzene	1.751	1.652	1.738	1.802	1.797	1.935	1.779	5.3
1,2-Dibromo-3-Chloropropane	0.299	0.283	0.285	0.302	0.333	0.476	0.330	22.4
1,2-Dichloroethane-d4	0.773	0.663	0.646	0.618	0.919		0.724	17.1
Dibromofluoromethane	0.435	0.382	0.377	0.360	0.454		0.402	10.1
Toluene-d8	1.166	1.092	1.136	1.097	1.411		1.181	11.2
4-Bromofluorobenzene	0.481	0.464	0.507	0.501	0.477		0.486	3.6
Methyl Iodide	0.772	0.742	0.786	0.793	0.638		0.746	8.5
trans-1,4-Dichloro-2-butene	0.478	0.451	0.495	0.521	0.427		0.474	7.8

* 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_V

Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
Method File : 82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025
Response Via : Initial Calibration

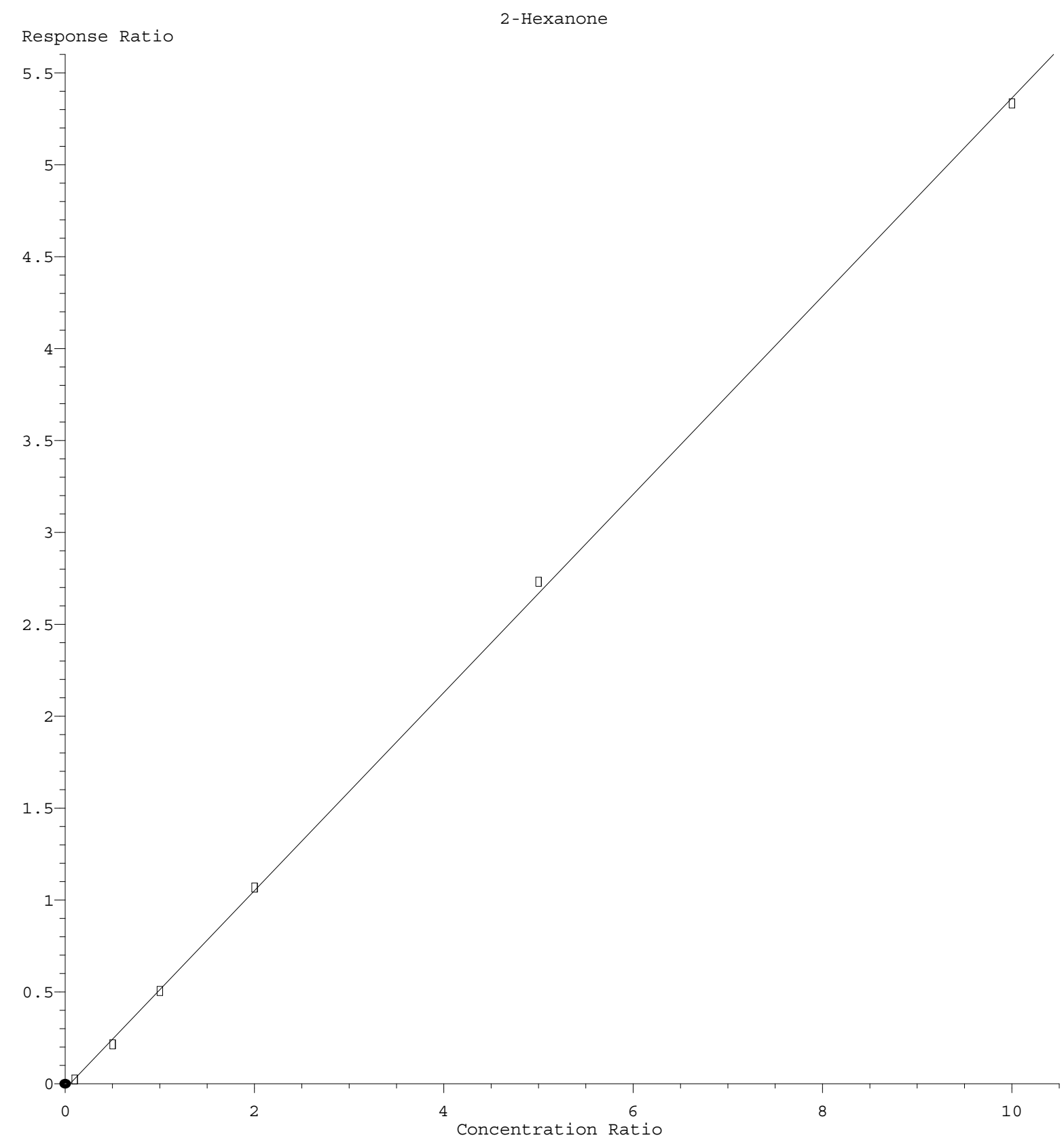
Calibration Files
1 =VV039143.D 5 =VV039142.D 10 =VV039137.D 20 =VV039138.D 50 =VV039139.D 100 =VV039140.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.934	0.772	0.848	0.757	0.740	0.699	0.791	10.78
3)	P	Chloromethane	0.946	0.889	0.949	0.814	0.770	0.729	0.850	10.90
4)	C	Vinyl Chloride	1.026	0.932	1.007	0.856	0.836	0.801	0.910	10.27#
5)	T	Bromomethane		0.655	0.631	0.548	0.508	0.524	0.573	11.50
6)	T	Chloroethane	0.915	0.606	0.662	0.568	0.533	0.500	0.631	23.83
7)	T	Trichlorofluor...	1.546	1.365	1.394	1.253	1.193	1.151	1.317	11.15
8)	T	Diethyl Ether	0.572	0.513	0.505	0.461	0.447	0.435	0.489	10.50
9)	T	1,1,2-Trichlor...	0.939	0.804	0.839	0.732	0.702	0.686	0.784	12.28
10)	T	Methyl Iodide		0.638	0.772	0.742	0.786	0.793	0.746	8.50
11)	T	Tert butyl alc...		0.166	0.169	0.157	0.137	0.136	0.153	10.26
12)	CM	1,1-Dichloroet...	0.873	0.789	0.804	0.721	0.674	0.663	0.754	10.87#
13)	T	Acrolein		0.025	0.027	0.027	0.026	0.027	0.027	4.01
14)	T	Allyl chloride	1.523	1.434	1.388	1.283	1.243	1.208	1.347	9.06
15)	T	Acrylonitrile	0.587	0.522	0.507	0.462	0.436	0.427	0.490	12.38
16)	T	Acetone	0.712	0.569	0.537	0.458	0.449	0.414	0.523	20.84
17)	T	Carbon Disulfide	2.670	2.462	2.453	2.181	2.081	1.986	2.306	11.43
18)	T	Methyl Acetate	1.198	1.097	1.146	1.036	0.983	0.973	1.072	8.46
19)	T	Methyl tert-bu...	2.591	2.556	2.547	2.285	2.233	2.202	2.402	7.50
20)	T	Methylene Chlo...	1.987	1.113	0.930	0.848	0.779	0.742	1.066	44.05
21)	T	trans-1,2-Dich...	0.959	0.835	0.846	0.755	0.724	0.696	0.803	12.11
22)	T	Diisopropyl ether	2.659	2.560	2.757	2.530	2.520	2.433	2.576	4.44
23)	T	Vinyl Acetate	2.243	2.313	2.393	2.241	2.204	2.128	2.254	4.04
24)	P	1,1-Dichloroet...	1.942	1.659	1.669	1.466	1.388	1.329	1.576	14.42
25)	T	2-Butanone	0.554	0.570	0.604	0.584	0.586	0.580	0.579	2.90
26)	T	2,2-Dichloropr...	1.906	1.393	1.364	1.275	1.239	1.204	1.397	18.57
27)	T	cis-1,2-Dichlo...	1.001	0.832	0.908	0.842	0.868	0.860	0.885	7.06
28)	T	Bromochloromet...	0.743	0.525	0.836	0.753	0.679	0.637	0.696	15.49
29)	T	Tetrahydrofuran	0.335	0.350	0.376	0.372	0.369	0.374	0.363	4.57
30)	C	Chloroform	1.880	1.746	1.752	1.570	1.490	1.433	1.645	10.60#
31)	T	Cyclohexane		1.407	1.325	1.222	1.245	1.254	1.291	5.85
32)	T	1,1,1-Trichlor...	1.590	1.513	1.562	1.321	1.298	1.263	1.424	10.26
33)	S	1,2-Dichloroet...		0.919	0.773	0.663	0.646	0.618	0.724	17.13
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.454	0.435	0.382	0.377	0.360	0.402	10.10
36)	T	1,1-Dichloropr...	0.650	0.536	0.624	0.604	0.620	0.612	0.608	6.33
37)	T	Ethyl Acetate	0.825	0.722	0.715	0.740	0.714	0.710	0.737	5.96
38)	T	Carbon Tetrach...	0.890	0.736	0.742	0.710	0.703	0.675	0.743	10.25
39)	T	Methylcyclohexane	0.622	0.680	0.701	0.720	0.823	0.857	0.734	12.15
40)	TM	Benzene	1.936	1.963	2.077	1.978	1.990	1.931	1.979	2.69
41)	T	Methacrylonitrile	0.185	0.215	0.273	0.292	0.330	0.342	0.273	22.92
42)	TM	1,2-Dichloroet...	0.740	0.693	0.725	0.694	0.666	0.643	0.693	5.20
43)	T	Isopropyl Acetate	0.869	0.933	1.032	1.029	1.069	1.100	1.005	8.71
44)	TM	Trichloroethene	0.435	0.460	0.471	0.456	0.463	0.454	0.457	2.64
45)	C	1,2-Dichloropr...	0.465	0.471	0.509	0.519	0.502	0.486	0.492	4.40#
46)	T	Dibromomethane	0.396	0.381	0.392	0.367	0.368	0.354	0.376	4.40
47)	T	Bromodichlorom...	0.829	0.767	0.832	0.764	0.753	0.725	0.778	5.54
48)	T	Methyl methacr...	0.491	0.356	0.409	0.449	0.504	0.526	0.456	14.15
49)	T	1,4-Dioxane	0.009	0.005	0.007	0.007	0.007	0.008	0.007	17.72
50)	S	Toluene-d8		1.411	1.166	1.092	1.136	1.097	1.181	11.21
51)	T	4-Methyl-2-Pen...	0.459	0.613	0.715	0.736	0.732	0.714	0.661	16.48
52)	CM	Toluene	0.901	1.130	1.211	1.199	1.229	1.214	1.147	10.93#
53)	T	t-1,3-Dichloro...	0.548	0.645	0.701	0.696	0.728	0.753	0.678	10.83
54)	T	cis-1,3-Dichlo...	0.595	0.704	0.803	0.777	0.811	0.803	0.749	11.37
55)	T	1,1,2-Trichlor...	0.553	0.524	0.534	0.502	0.494	0.480	0.514	5.31
56)	T	Ethyl methacry...	0.507	0.510	0.569	0.603	0.716	0.761	0.611	17.43

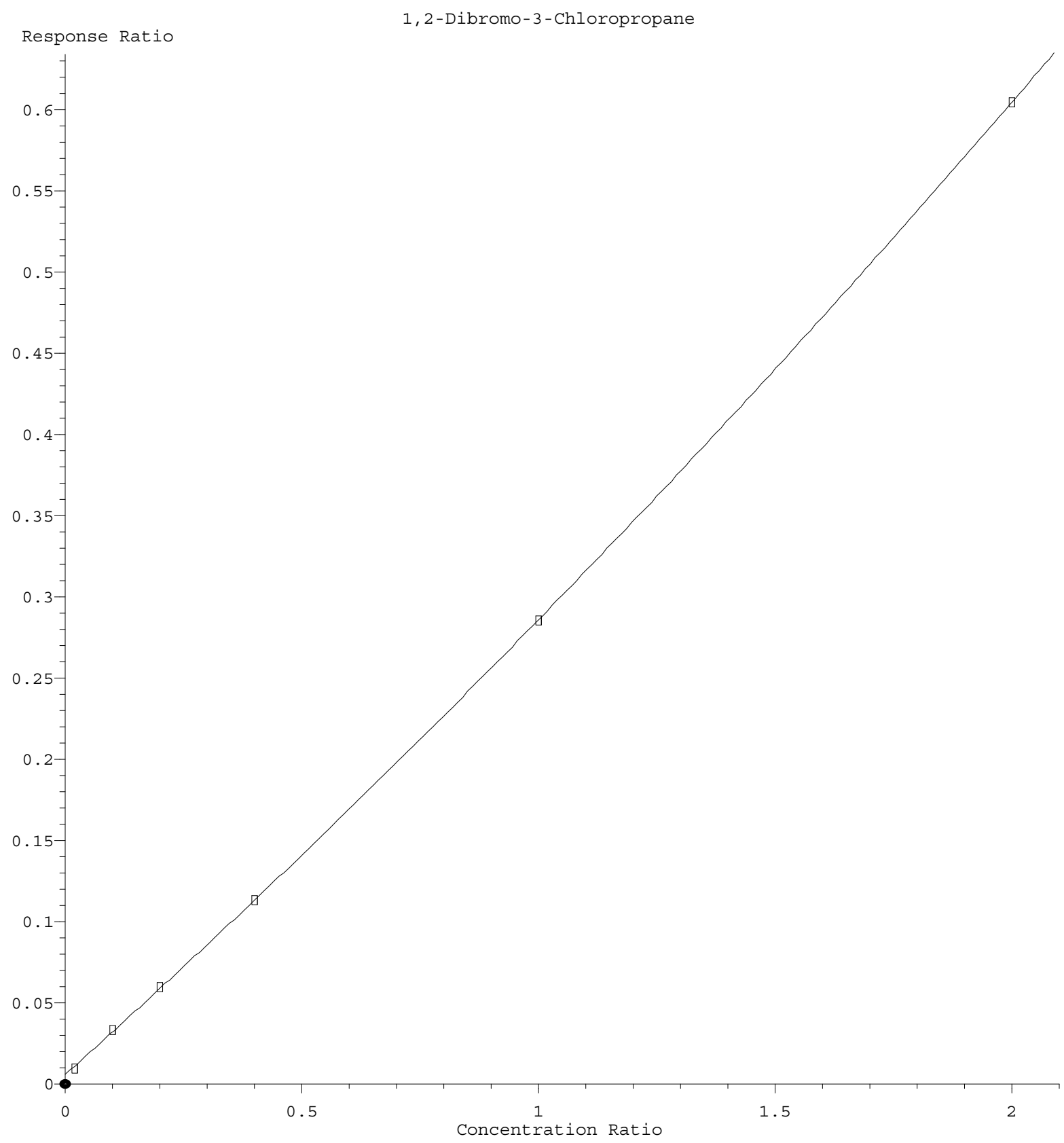
Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
Method File : 82V092225W.M

57)	T	1,3-Dichloropr...	0.797	0.764	0.861	0.827	0.820	0.802	0.812	4.02
58)	T	2-Chloroethyl ...	0.136	0.196	0.264	0.304	0.353	0.351	0.267	32.62
59)	T	2-Hexanone	0.231	0.429	0.505	0.534	0.546	0.533	0.463	26.18
60)	T	Dibromochlorom...	0.620	0.598	0.605	0.570	0.567	0.558	0.586	4.20
61)	T	1,2-Dibromoethane	0.484	0.535	0.556	0.538	0.529	0.514	0.526	4.70
62)	S	4-Bromofluorob...		0.477	0.481	0.464	0.507	0.501	0.486	3.62
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.415	0.431	0.435	0.412	0.412	0.407	0.419	2.74
65)	PM	Chlorobenzene	1.428	1.417	1.403	1.368	1.383	1.358	1.393	1.99
66)	T	1,1,1,2-Tetrac...	0.543	0.504	0.520	0.488	0.488	0.477	0.503	4.84
67)	C	Ethyl Benzene	1.725	1.953	2.028	2.143	2.382	2.418	2.108	12.53#
68)	T	m/p-Xylenes	0.580	0.713	0.820	0.882	0.949	0.938	0.814	17.68
69)	T	o-Xylene	0.518	0.635	0.703	0.742	0.846	0.880	0.720	18.67
70)	T	Styrene	0.828	1.038	1.239	1.381	1.553	1.537	1.263	22.78
71)	P	Bromoform	0.397	0.385	0.396	0.384	0.396	0.400	0.393	1.68
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.226	3.296	3.564	3.638	3.939	4.096	3.627	9.49
74)	T	N-amyl acetate	1.031	1.279	1.425	1.506	1.673	1.764	1.447	18.47
75)	P	1,1,2,2-Tetrac...	1.975	1.684	1.600	1.461	1.425	1.389	1.589	13.83
76)	T	1,2,3-Trichlor...	1.375	1.201	1.136	1.048	1.049	1.023	1.138	11.73
77)	T	Bromobenzene	0.978	0.927	0.948	0.919	0.925	0.949	0.941	2.34
78)	T	n-propylbenzene	3.873	3.967	4.330	4.442	4.899	4.986	4.416	10.44
79)	T	2-Chlorotoluene	2.114	2.585	2.752	2.688	2.833	2.883	2.643	10.59
80)	T	1,3,5-Trimethy...	2.462	2.697	2.924	3.141	3.387	3.475	3.014	13.12
81)	T	trans-1,4-Dich...		0.427	0.478	0.451	0.495	0.521	0.474	7.77
82)	T	4-Chlorotoluene	2.381	2.877	3.160	3.216	3.338	3.413	3.064	12.48
83)	T	tert-Butylbenzene	2.875	2.757	2.886	2.881	3.222	3.413	3.006	8.43
84)	T	1,2,4-Trimethy...	2.332	2.542	2.767	3.100	3.378	3.440	2.926	15.47
85)	T	sec-Butylbenzene	3.605	3.608	3.823	3.969	4.364	4.550	3.987	9.88
86)	T	p-Isopropyltol...	2.874	2.994	3.237	3.351	3.682	3.772	3.318	10.85
87)	T	1,3-Dichlorobe...	1.975	1.943	1.931	1.836	1.857	1.882	1.904	2.83
88)	T	1,4-Dichlorobe...	2.522	2.139	2.070	1.951	1.934	1.919	2.089	10.97
89)	T	n-Butylbenzene	2.646	2.816	3.034	3.141	3.613	3.763	3.169	13.88
90)	T	Hexachloroethane	1.044	0.841	0.808	0.740	0.728	0.742	0.817	14.63
91)	T	1,2-Dichlorobe...	1.935	1.797	1.751	1.652	1.738	1.802	1.779	5.26
92)	T	1,2-Dibromo-3-...	0.476	0.333	0.299	0.283	0.285	0.302	0.330	22.39
93)	T	1,2,4-Trichlor...	1.028	0.935	0.928	0.963	1.076	1.189	1.020	9.87
94)	T	Hexachlorobuta...	0.683	0.530	0.512	0.474	0.480	0.501	0.530	14.65
95)	T	Naphthalene	3.054	2.665	2.888	3.114	3.814	4.244	3.296	18.32
96)	T	1,2,3-Trichlor...	1.113	0.901	0.974	0.973	1.107	1.191	1.043	10.58

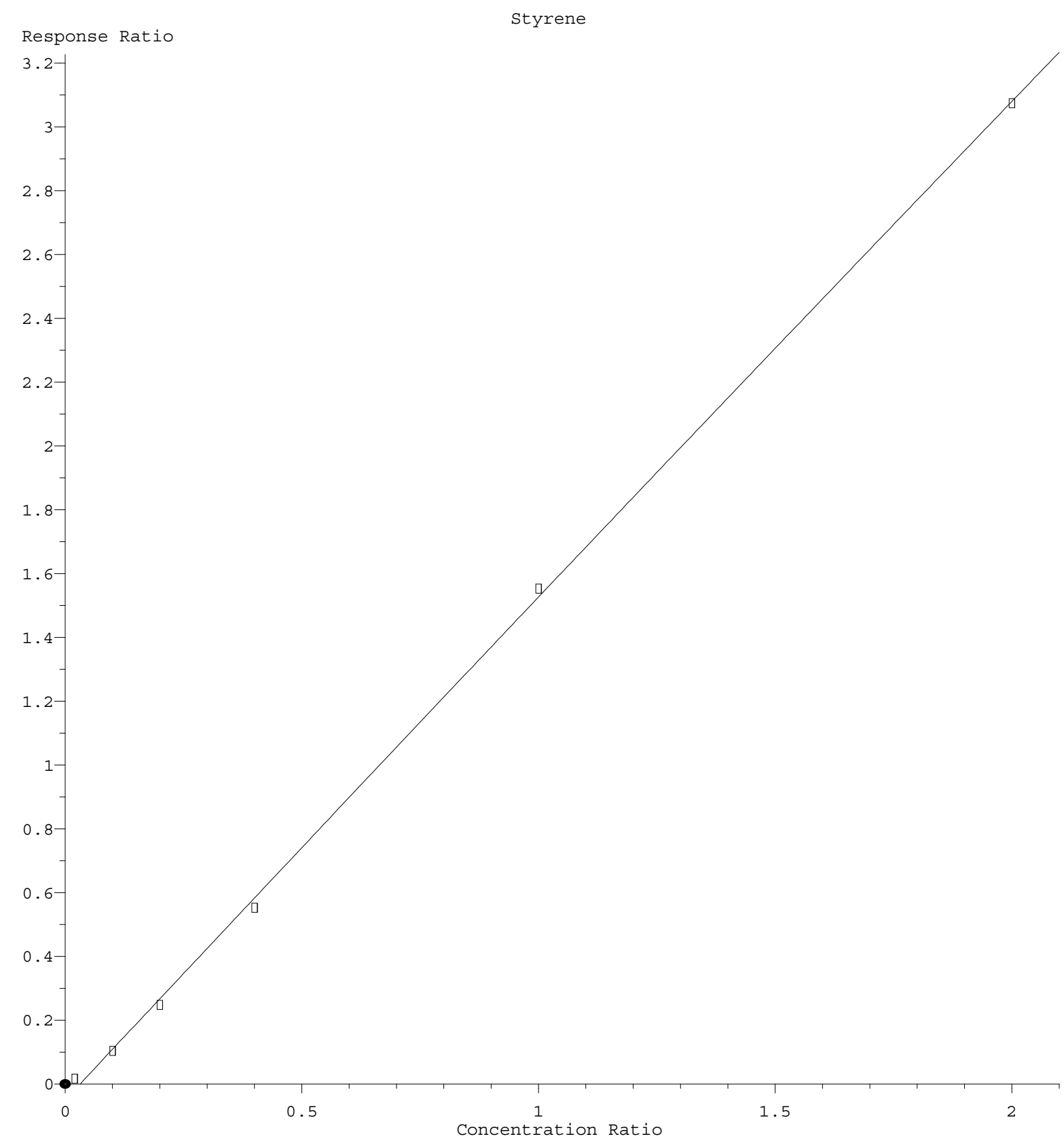
(#) = Out of Range



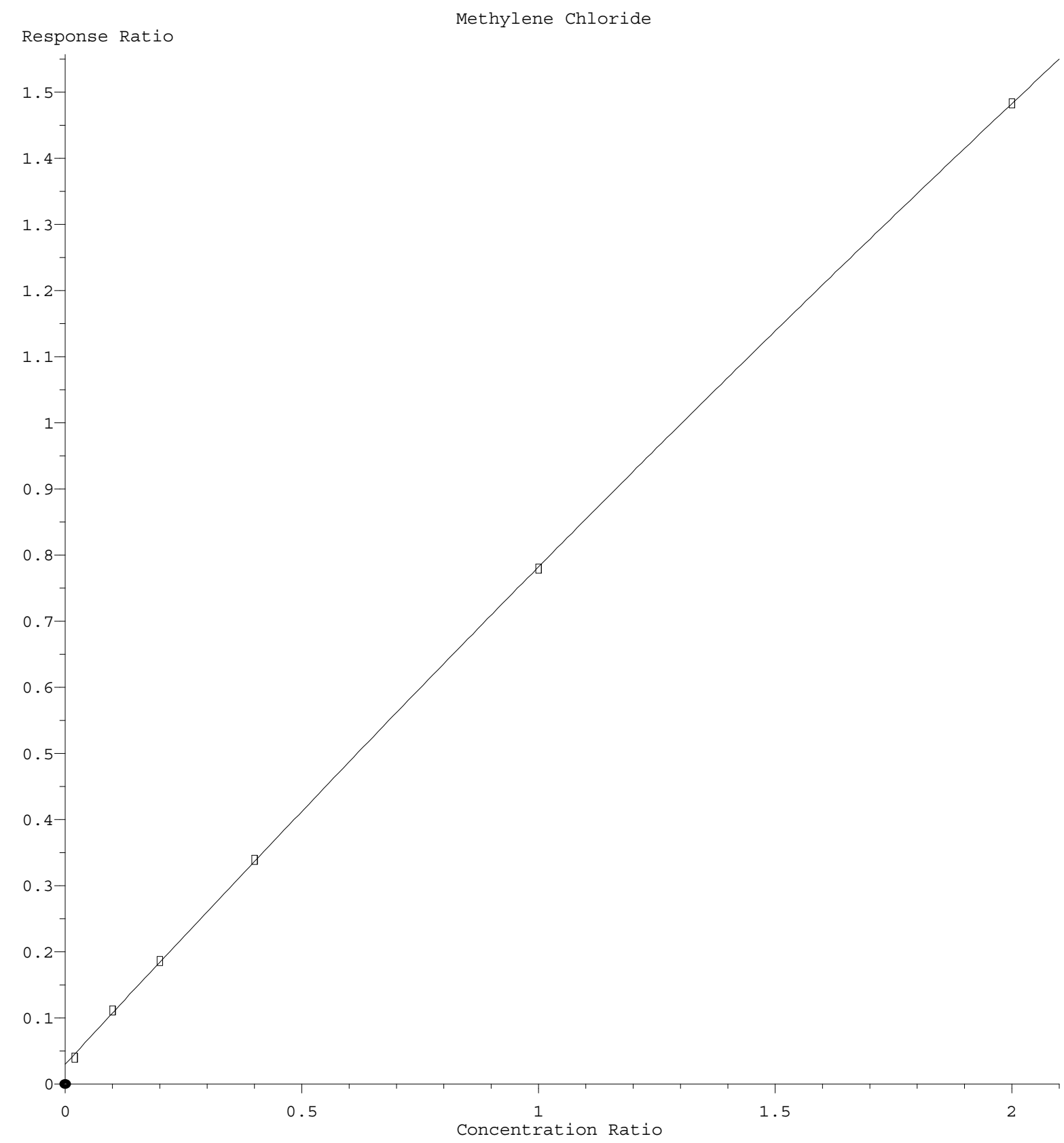
Response = 5.390e-001 * Amt - 2.507e-002
Coef of Det (r^2) = 0.999719 Curve Fit: Linear
Method Name: Z:\nrsrv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



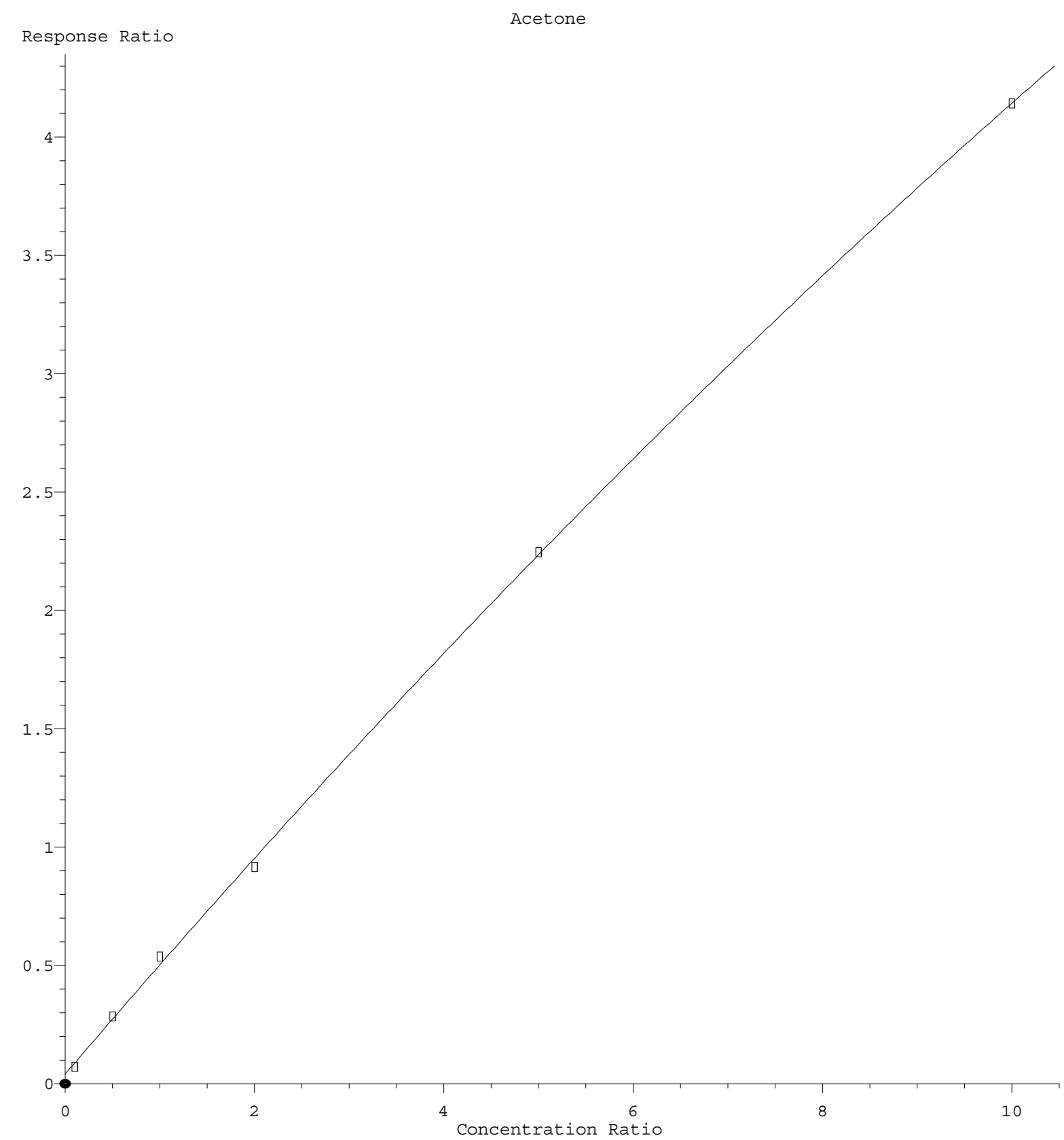
R = 1.931e-002 A*A + 2.606e-001 A + 5.917e-003
Coef of Det (r^2) = 0.999981 Curve Fit: Quadratic
Method Name: Z:\msrv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



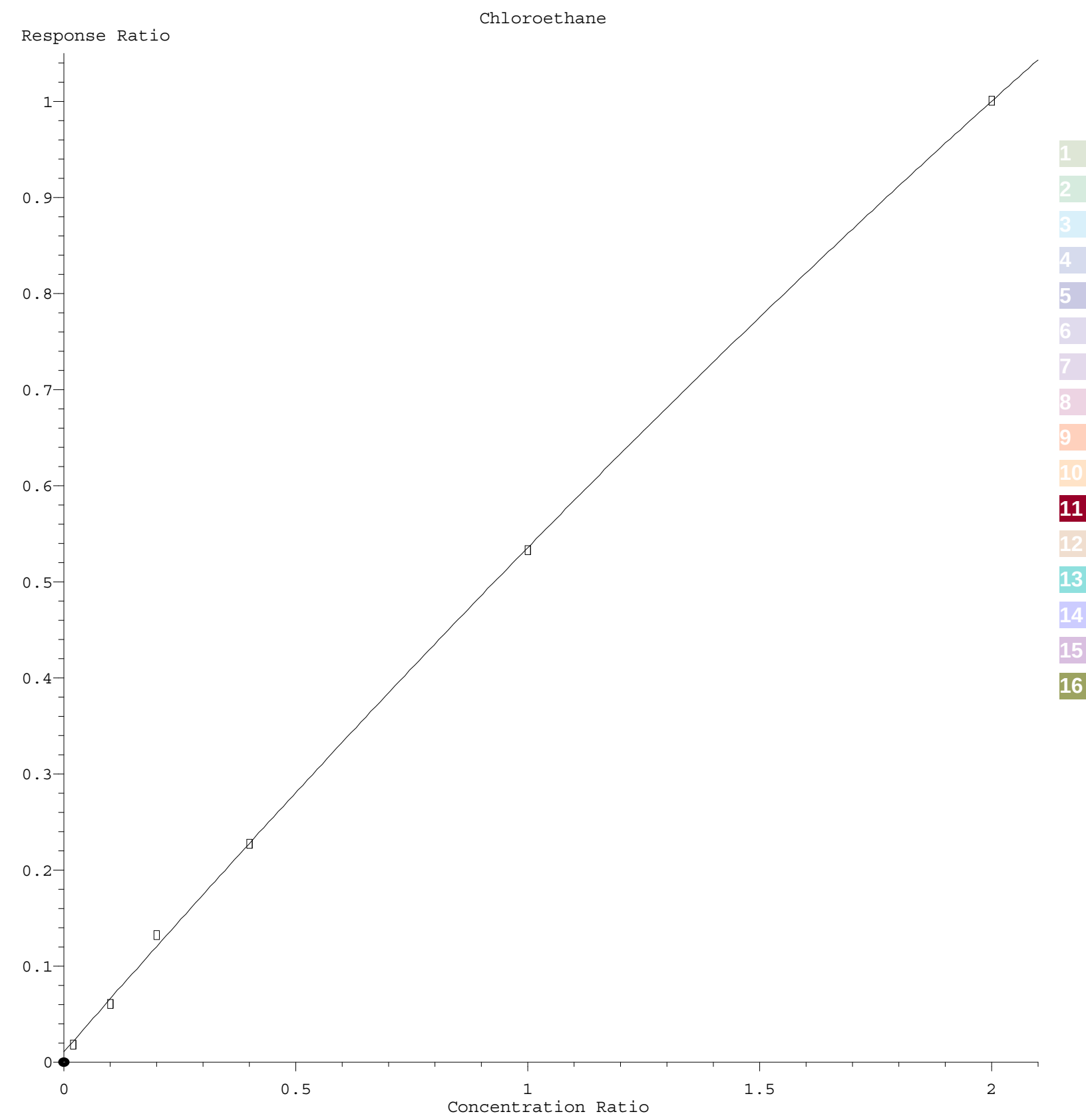
R = -1.124e-002 A*A + 1.587e+000 A - 4.955e-002
Coef of Det (r^2) = 0.999540 Curve Fit: Quadratic
Method Name: Z:\rcisrv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



R = -2.570e-002 A*A + 7.777e-001 A + 2.991e-002
Coef of Det (r^2) = 0.999960 Curve Fit: Quadratic
Method Name: Z:\vocsrv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



R = -5.738e-003 A*A + 4.676e-001 A + 4.104e-002
Coef of Det (r^2) = 0.999745 Curve Fit: Quadratic
Method Name: Z:\vocsrv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



R = -3.006e-002 A*A + 5.547e-001 A + 1.084e-002
Coef of Det (r^2) = 0.999734 Curve Fit: Quadratic
Method Name: Z:\vocsrv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.597	168	501722	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	837272	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	824583	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	463438	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	77610	10.688	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 21.380%#			
35) Dibromofluoromethane	4.503	113	72914	10.833	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 21.660%#			
50) Toluene-d8	7.240	98	195300	9.879	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 19.760%#			
62) 4-Bromofluorobenzene	10.005	95	80587	9.902	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 19.800%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	85113	10.716	ug/l	99
3) Chloromethane	1.230	50	95215	11.167	ug/l	95
4) Vinyl Chloride	1.298	62	101023	11.068	ug/l	99
5) Bromomethane	1.500	94	63359	11.011	ug/l	98
6) Chloroethane	1.561	64	66412	11.087	ug/l	98
7) Trichlorofluoromethane	1.729	101	139927	10.588	ug/l	98
8) Diethyl Ether	1.918	74	50669	10.328	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.082	101	84221	10.711	ug/l	99
10) Methyl Iodide	2.198	142	77448	10.343	ug/l	98
11) Tert butyl alcohol	2.568	59	84609	55.130	ug/l	99
12) 1,1-Dichloroethene	2.082	96	80704	10.669	ug/l	97
13) Acrolein	2.015	56	13557	50.908	ug/l #	80
14) Allyl chloride	2.359	41	139249	10.305	ug/l	98
15) Acrylonitrile	2.674	53	254235	51.676	ug/l	99
16) Acetone	2.121	43	269573	53.773	ug/l	99
17) Carbon Disulfide	2.253	76	246125	10.639	ug/l	99
18) Methyl Acetate	2.381	43	115005	10.689	ug/l	97
19) Methyl tert-butyl Ether	2.712	73	255535	10.601	ug/l	99
20) Methylene Chloride	2.455	84	93350	10.106	ug/l	99
21) trans-1,2-Dichloroethene	2.703	96	84891	10.541	ug/l	95
22) Diisopropyl ether	3.214	45	276604	10.699	ug/l #	68
23) Vinyl Acetate	3.191	43	1200618	53.087	ug/l	100
24) 1,1-Dichloroethane	3.118	63	167496	10.594	ug/l	100
25) 2-Butanone	3.873	43	303016	53.015	ug/l	100
26) 2,2-Dichloropropane	3.809	77	136919	9.806	ug/l	100
27) cis-1,2-Dichloroethene	3.822	96	91069	10.254	ug/l	99
28) Bromochloromethane	4.146	49	83889	12.019	ug/l	98
29) Tetrahydrofuran	4.240	42	188818	51.879	ug/l	96
30) Chloroform	4.278	83	175847	10.652	ug/l	97
31) Cyclohexane	4.584	56	132996	10.269	ug/l	96
32) 1,1,1-Trichloroethane	4.513	97	156733	10.966	ug/l	96
36) 1,1-Dichloropropene	4.744	75	104420	10.187	ug/l	99
37) Ethyl Acetate	3.982	43	119710	9.520	ug/l #	91
38) Carbon Tetrachloride	4.732	117	124321	10.069	ug/l	98
39) Methylcyclohexane	6.043	83	117354	9.549	ug/l	94
40) Benzene	5.008	78	347728	10.493	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.169	41	45674	9.764	ug/l		90
42) 1,2-Dichloroethane	5.043	62	121437	10.458	ug/l		100
43) Isopropyl Acetate	5.195	43	172880	9.980	ug/l		97
44) Trichloroethene	5.834	130	78943	10.324	ug/l		93
45) 1,2-Dichloropropane	6.092	63	85295	10.355	ug/l		99
46) Dibromomethane	6.230	93	65717	10.424	ug/l		98
47) Bromodichloromethane	6.426	83	139261	10.685	ug/l		97
48) Methyl methacrylate	6.304	41	68465	8.639	ug/l		97
49) 1,4-Dioxane	6.297	88	23699	190.260	ug/l		99
51) 4-Methyl-2-Pentanone	7.150	43	598702	54.051	ug/l		97
52) Toluene	7.310	92	202741	10.552	ug/l		100
53) t-1,3-Dichloropropene	7.580	75	117314	10.329	ug/l		97
54) cis-1,3-Dichloropropene	6.950	75	134529	10.729	ug/l		98
55) 1,1,2-Trichloroethane	7.764	97	89390	10.376	ug/l		98
56) Ethyl methacrylate	7.719	69	95279	9.313	ug/l		99
57) 1,3-Dichloropropane	7.934	76	144218	10.607	ug/l		98
58) 2-Chloroethyl Vinyl ether	6.815	63	220693	46.148	ug/l		99
59) 2-Hexanone	8.066	43	422703	49.020	ug/l		93
60) Dibromochloromethane	8.169	129	101236	10.313	ug/l		97
61) 1,2-Dibromoethane	8.275	107	93182	10.576	ug/l		100
64) Tetrachloroethene	7.899	164	71811	10.397	ug/l		98
65) Chlorobenzene	8.805	112	231329	10.072	ug/l		99
66) 1,1,1,2-Tetrachloroethane	8.899	131	85678	10.324	ug/l		99
67) Ethyl Benzene	8.937	91	334394	9.618	ug/l		99
68) m/p-Xylenes	9.063	106	270452	20.155	ug/l		99
69) o-Xylene	9.468	106	115922	9.756	ug/l		96
70) Styrene	9.487	104	204368	9.382	ug/l		100
71) Bromoform	9.657	173	65302	10.074	ug/l	#	98
73) Isopropylbenzene	9.857	105	330305	9.827	ug/l		99
74) N-amyl acetate	9.725	43	132108	9.853	ug/l		96
75) 1,1,2,2-Tetrachloroethane	10.165	83	148267	10.067	ug/l		99
76) 1,2,3-Trichloropropane	10.198	75	105275	9.977	ug/l		99
77) Bromobenzene	10.143	156	87828	10.071	ug/l		96
78) n-propylbenzene	10.278	91	401316	9.804	ug/l		100
79) 2-Chlorotoluene	10.349	91	255053	10.413	ug/l		99
80) 1,3,5-Trimethylbenzene	10.464	105	270977	9.699	ug/l		98
81) trans-1,4-Dichloro-2-b...	9.931	75	44314	10.082	ug/l		97
82) 4-Chlorotoluene	10.464	91	292863	10.312	ug/l		100
83) tert-Butylbenzene	10.789	119	267528	9.603	ug/l		98
84) 1,2,4-Trimethylbenzene	10.841	105	256505	9.457	ug/l		99
85) sec-Butylbenzene	11.011	105	354312	9.588	ug/l		100
86) p-Isopropyltoluene	11.169	119	300032	9.755	ug/l		99
87) 1,3-Dichlorobenzene	11.108	146	178990	10.141	ug/l		98
88) 1,4-Dichlorobenzene	11.198	146	191843	9.835	ug/l		97
89) n-Butylbenzene	11.580	91	281258	9.575	ug/l		97
90) Hexachloroethane	11.821	117	74910	9.891	ug/l		96
91) 1,2-Dichlorobenzene	11.567	146	162271	9.841	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.355	75	27674	10.167	ug/l		98
93) 1,2,4-Trichlorobenzene	13.188	180	85982	9.096	ug/l		98
94) Hexachlorobutadiene	13.368	225	47413	9.653	ug/l		97
95) Naphthalene	13.426	128	267645	8.803	ug/l		99
96) 1,2,3-Trichlorobenzene	13.667	180	90238	9.334	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

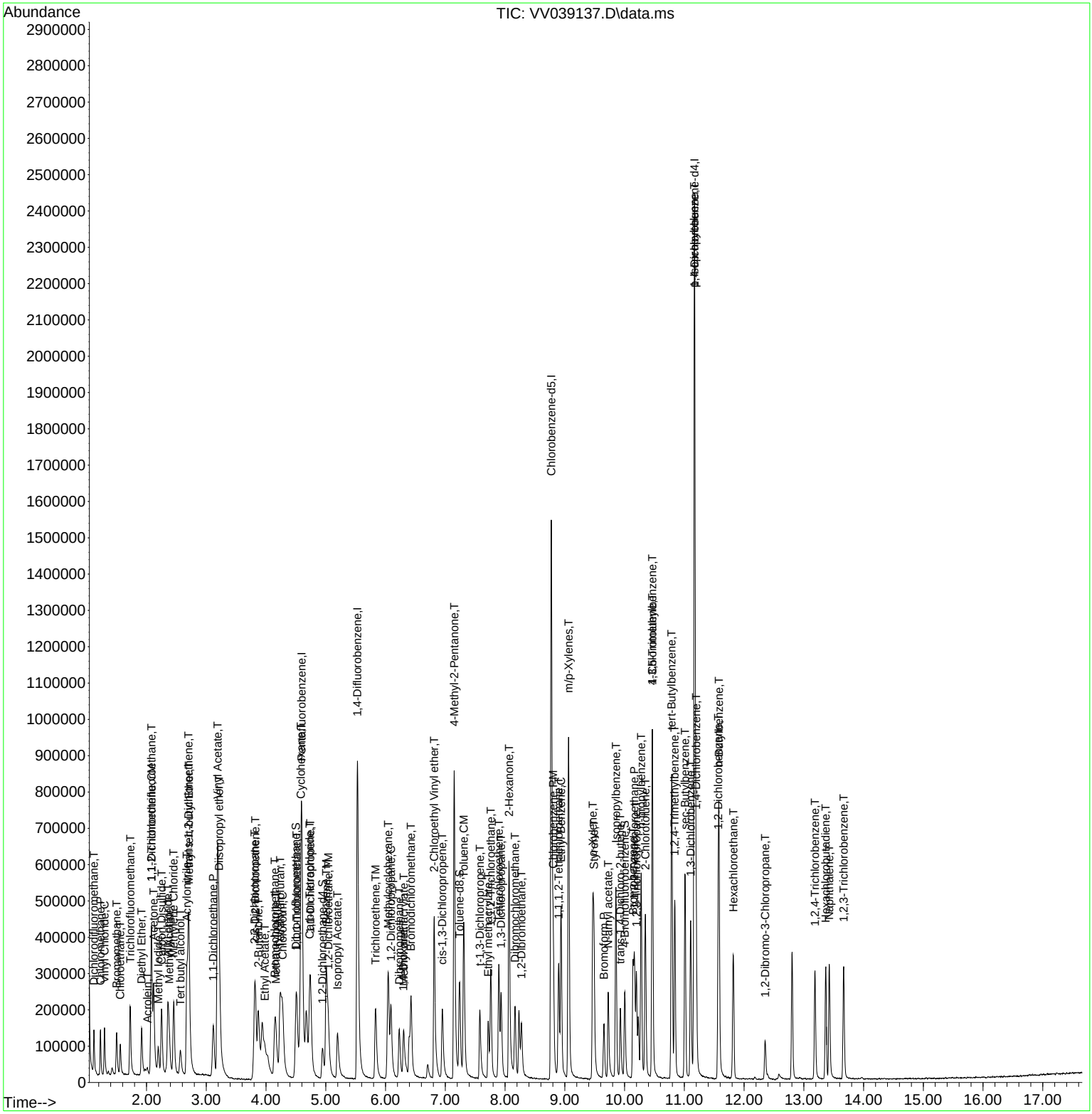
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

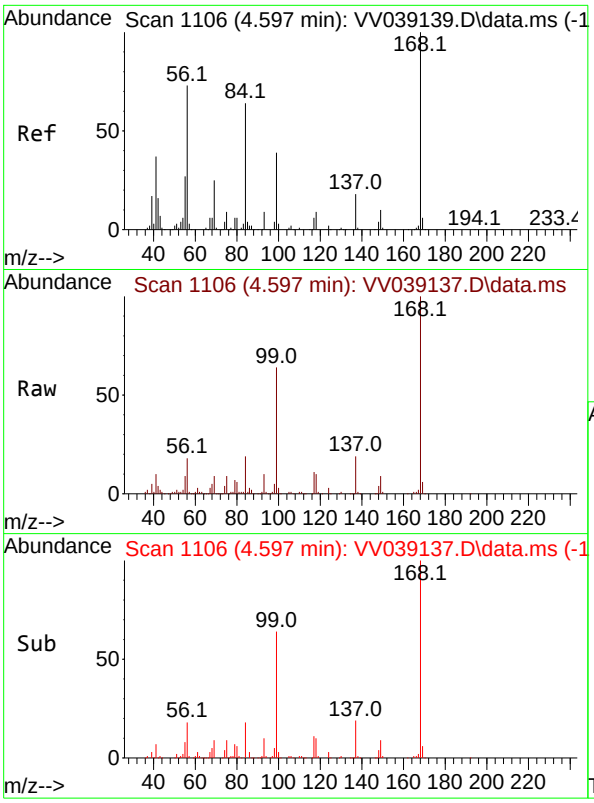
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



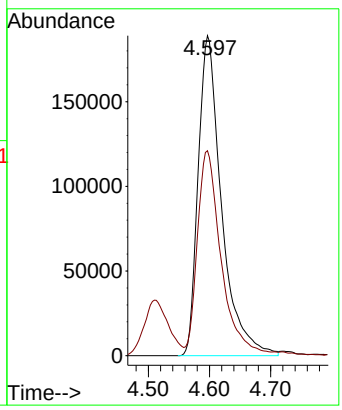


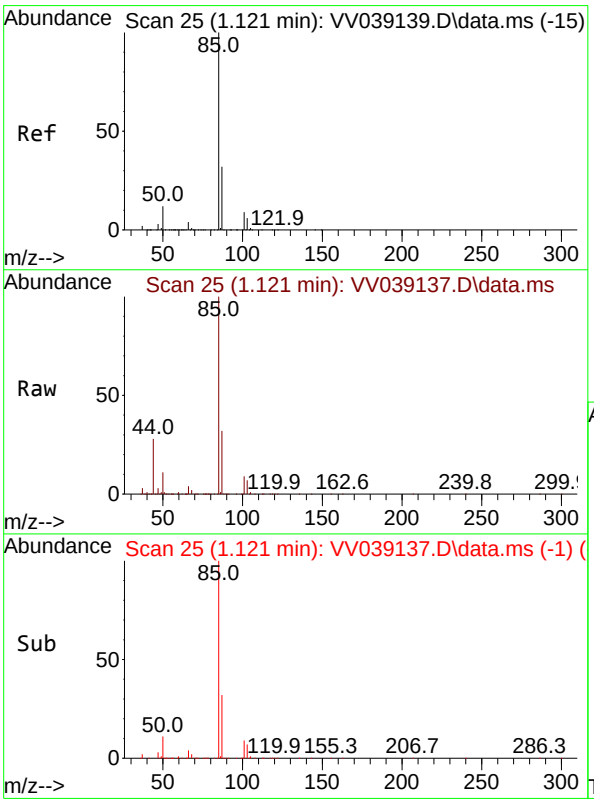
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 501722

Ion	Ratio	Lower	Upper
168	100		
99	63.0	49.6	74.4

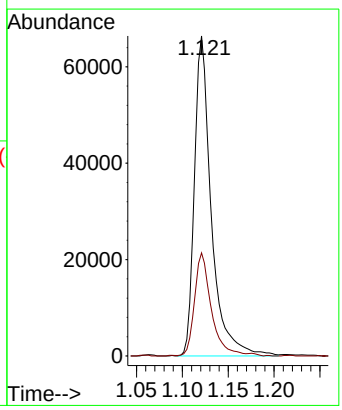


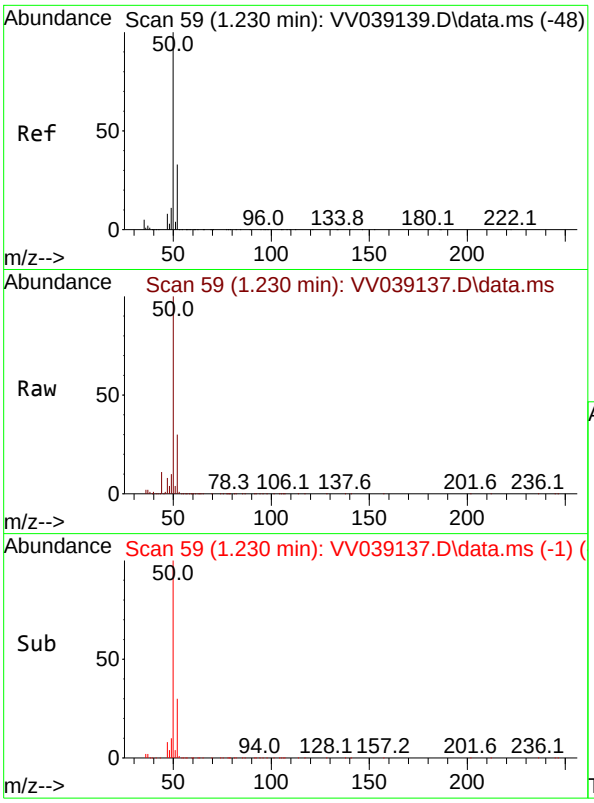


#2
Dichlorodifluoromethane
Concen: 10.716 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 85 Resp: 85113

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.0	47.9



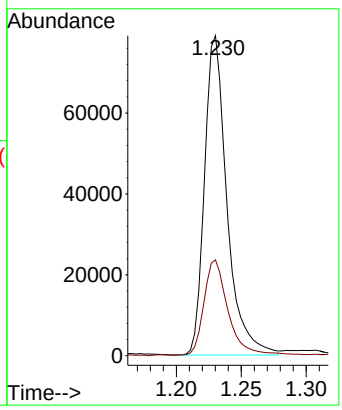


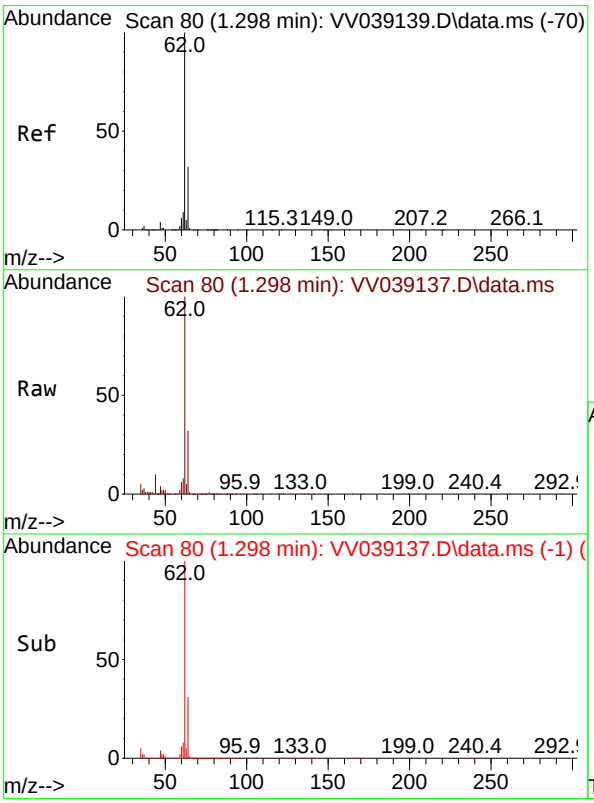
#3
Chloromethane
Concen: 11.167 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 95215

Ion	Ratio	Lower	Upper
50	100		
52	29.8	26.0	39.0

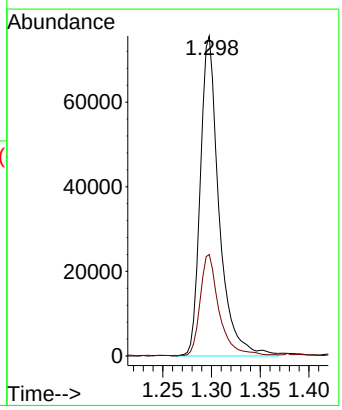


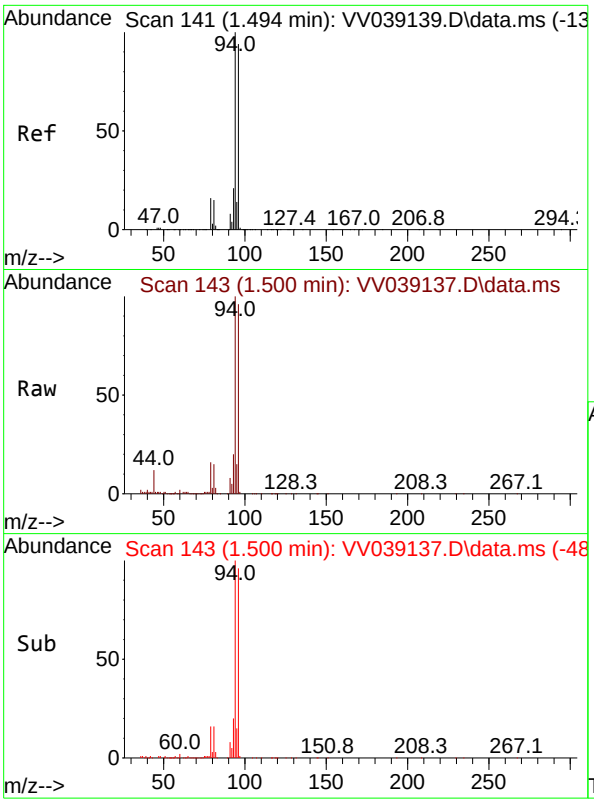


#4
Vinyl Chloride
Concen: 11.068 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 62 Resp: 101023

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.6	38.4



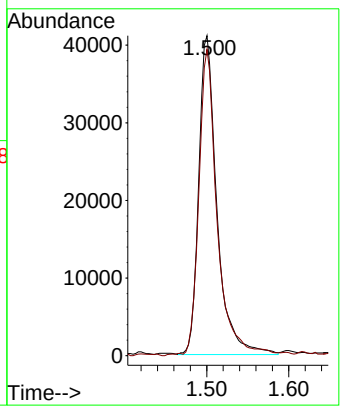


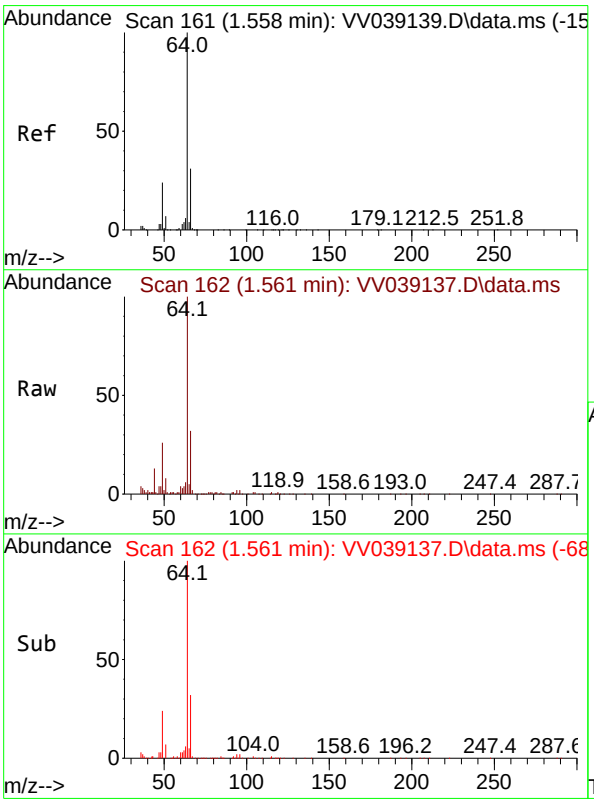
#5
Bromomethane
Concen: 11.011 ug/l
RT: 1.500 min Scan# 14
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 63359

Ion	Ratio	Lower	Upper
94	100		
96	95.4	74.9	112.3

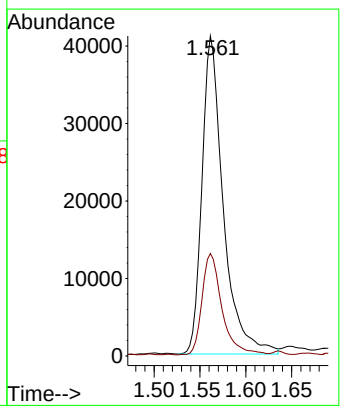


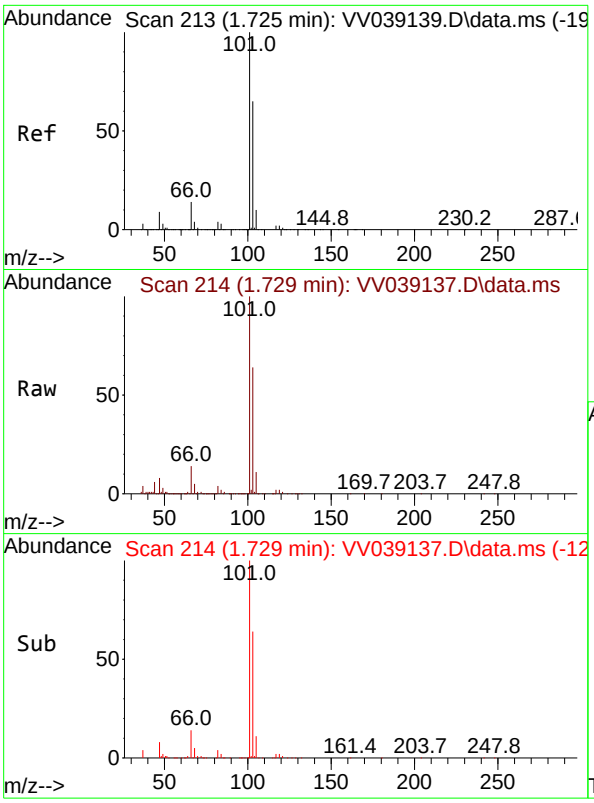


#6
Chloroethane
Concen: 11.087 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 64 Resp: 66412

Ion	Ratio	Lower	Upper
64	100		
66	31.8	24.6	36.8



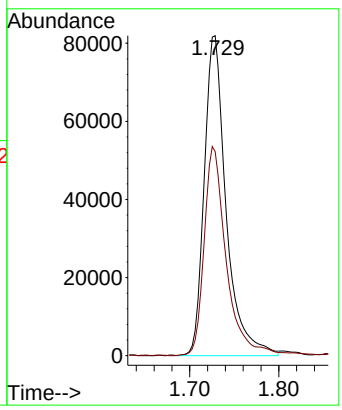


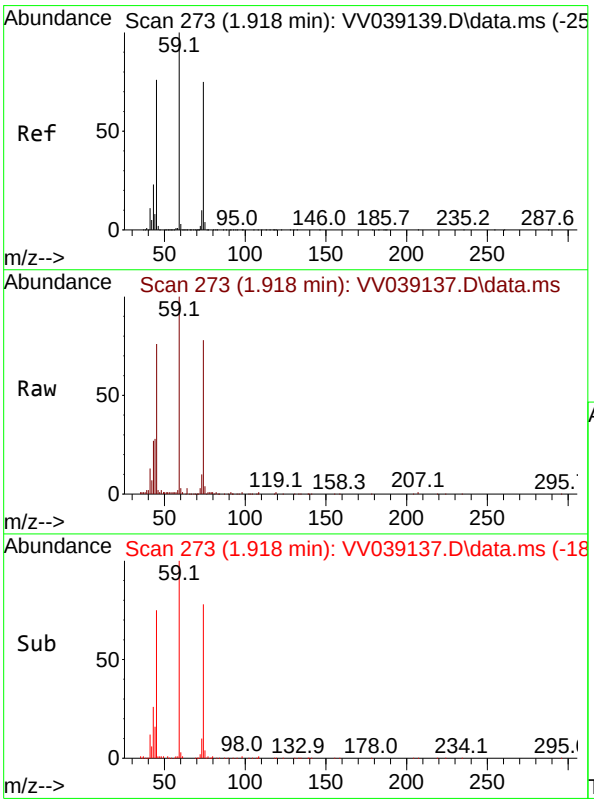
#7
Trichlorofluoromethane
Concen: 10.588 ug/l
RT: 1.729 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 139927

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.0	78.0

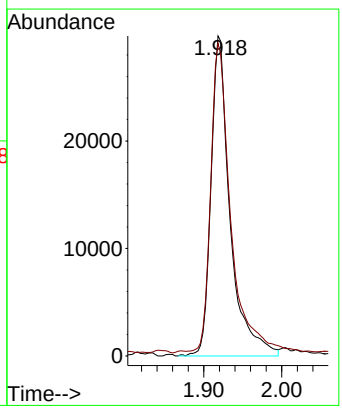


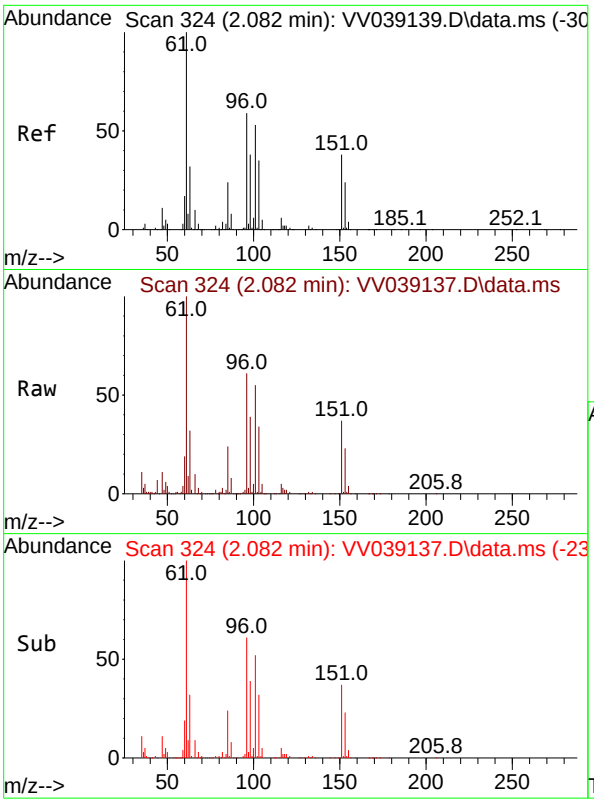


#8
Diethyl Ether
Concen: 10.328 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 74 Resp: 50669

Ion	Ratio	Lower	Upper
74	100		
45	100.7	49.6	148.8



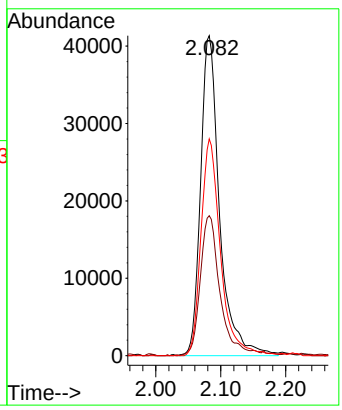


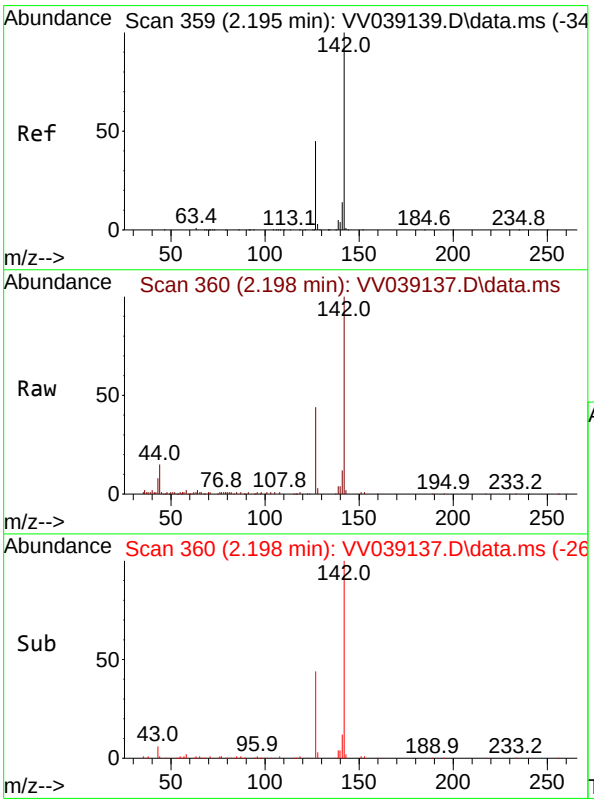
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.711 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 84221

Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.2	54.2
151	69.6	56.3	84.5

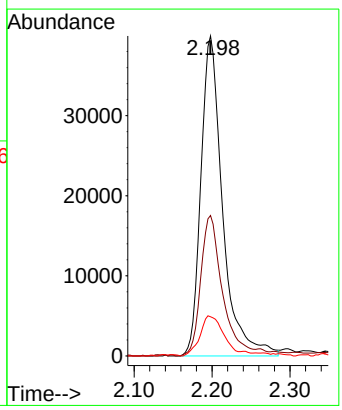


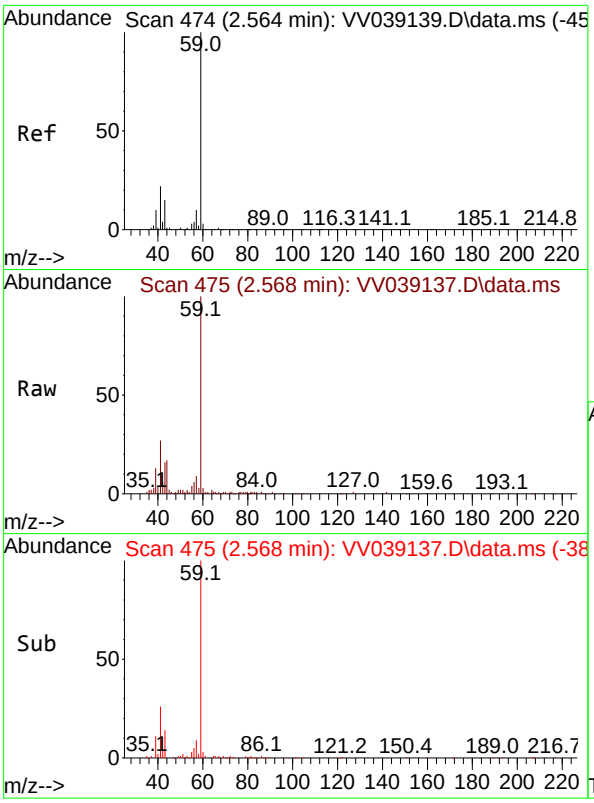


#10
Methyl Iodide
Concen: 10.343 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:142 Resp: 77448

Ion	Ratio	Lower	Upper
142	100		
127	43.6	36.3	54.5
141	13.5	11.2	16.8



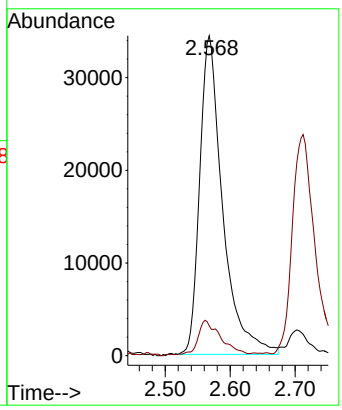


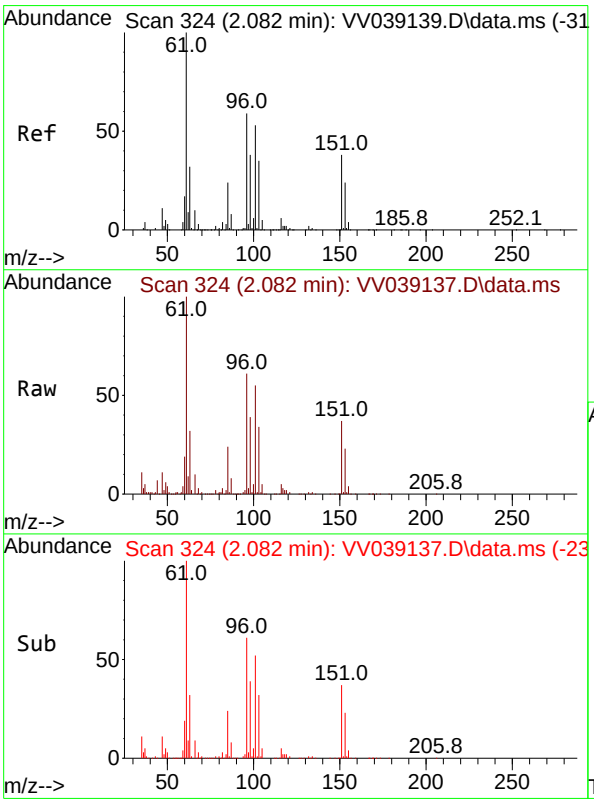
#11
Tert butyl alcohol
Concen: 55.130 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 84609

Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.8	11.8

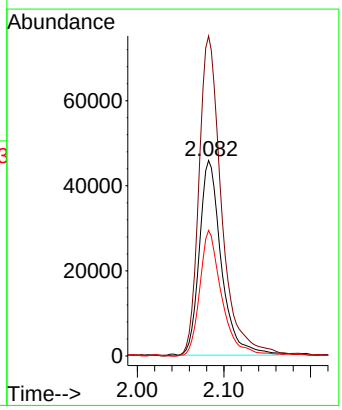


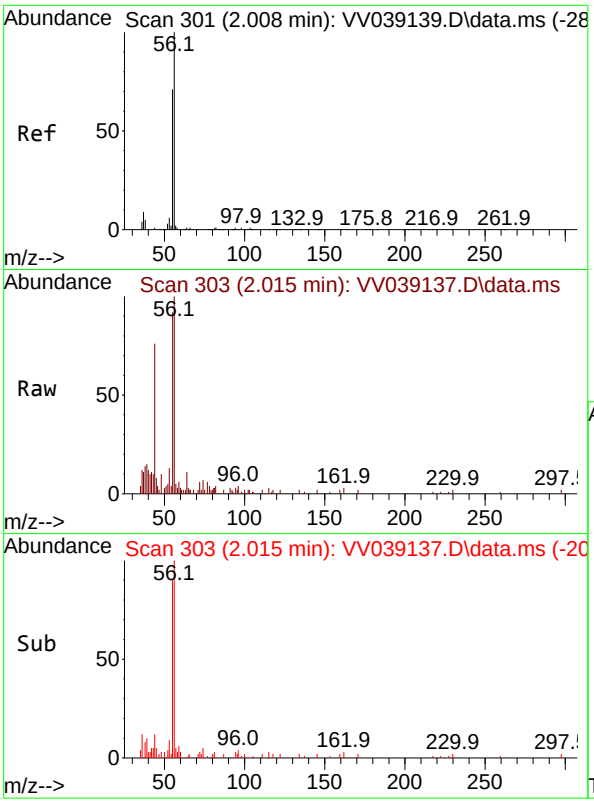


#12
1,1-Dichloroethene
Concen: 10.669 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 96 Resp: 80704

Ion	Ratio	Lower	Upper
96	100		
61	164.2	136.0	204.0
98	64.6	51.0	76.6



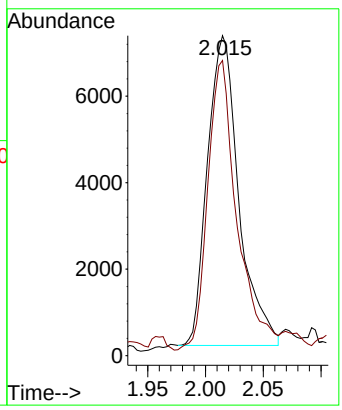


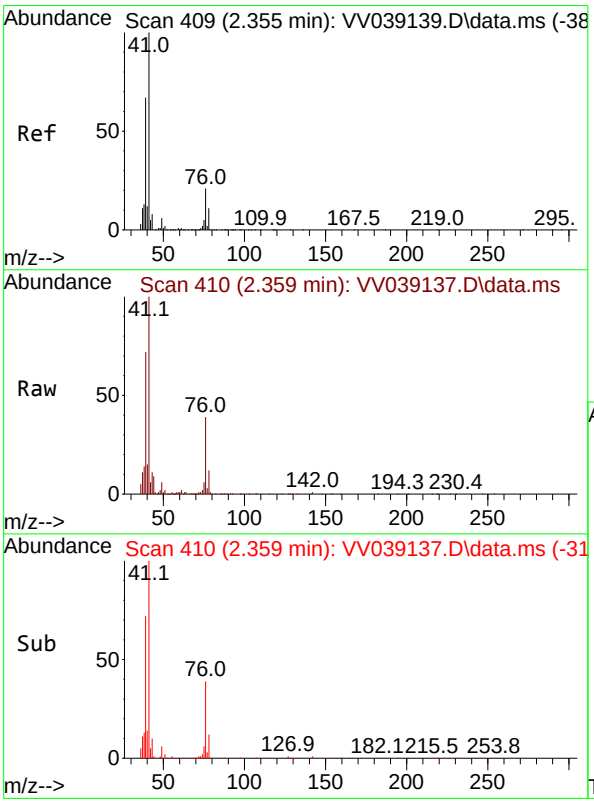
#13
Acrolein
Concen: 50.908 ug/l
RT: 2.015 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 13557

Ion	Ratio	Lower	Upper
56	100		
55	86.9	56.2	84.4#

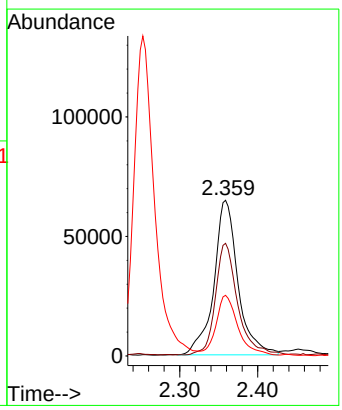


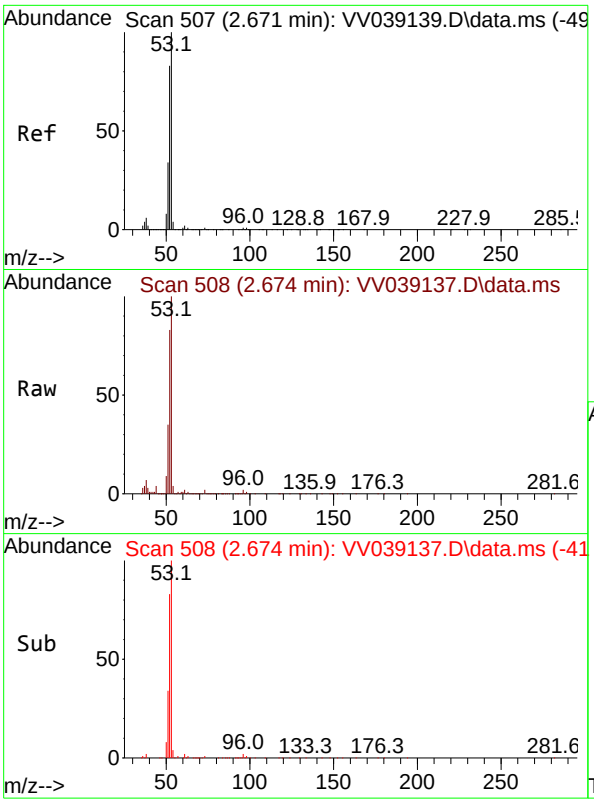


#14
Allyl chloride
Concen: 10.305 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 41 Resp: 139249

Ion	Ratio	Lower	Upper
41	100		
39	66.2	51.0	76.6
76	35.0	28.2	42.4



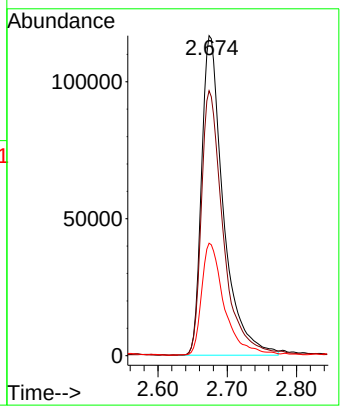


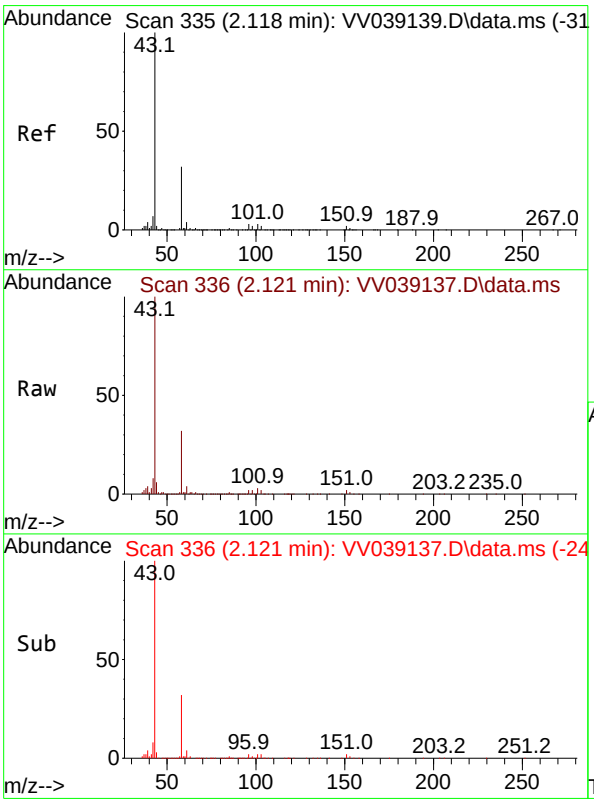
#15
Acrylonitrile
Concen: 51.676 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 254235

Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.1	99.1
51	36.5	28.5	42.7

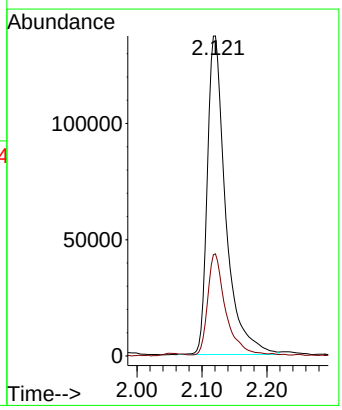


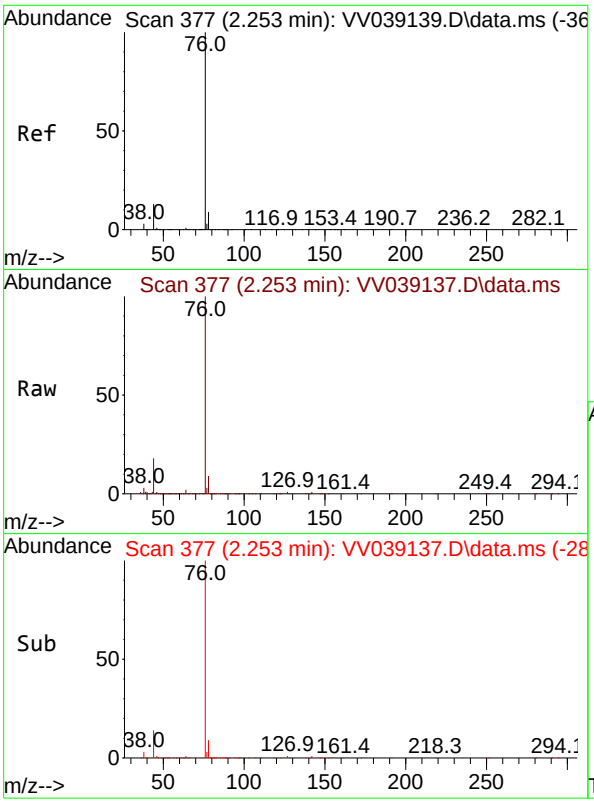


#16
Acetone
Concen: 53.773 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 269573

Ion	Ratio	Lower	Upper
43	100		
58	31.6	25.8	38.6



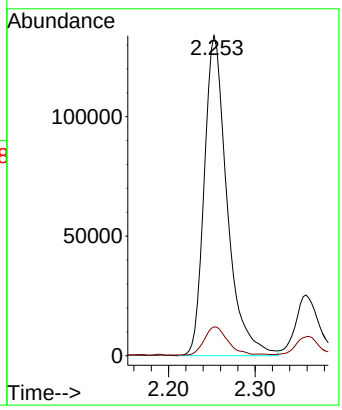


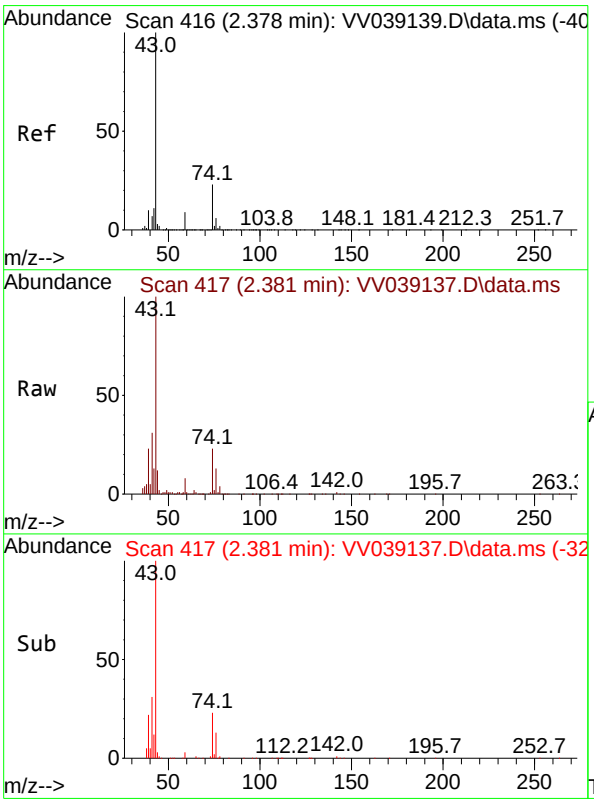
#17
Carbon Disulfide
Concen: 10.639 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 246125

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

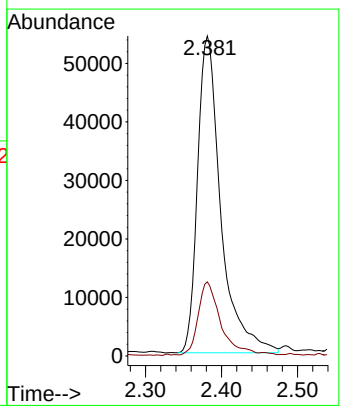


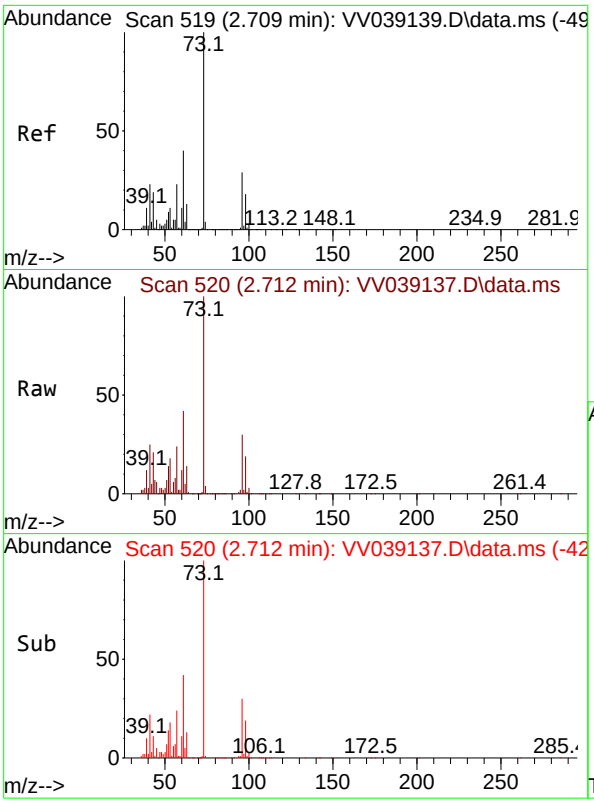


#18
Methyl Acetate
Concen: 10.689 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 115005

Ion	Ratio	Lower	Upper
43	100		
74	21.9	18.6	27.8



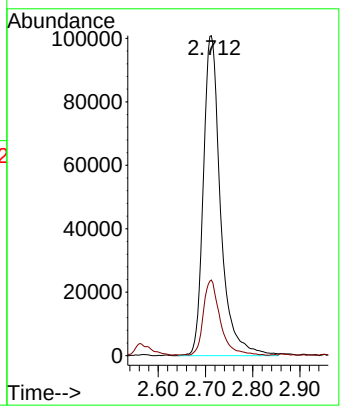


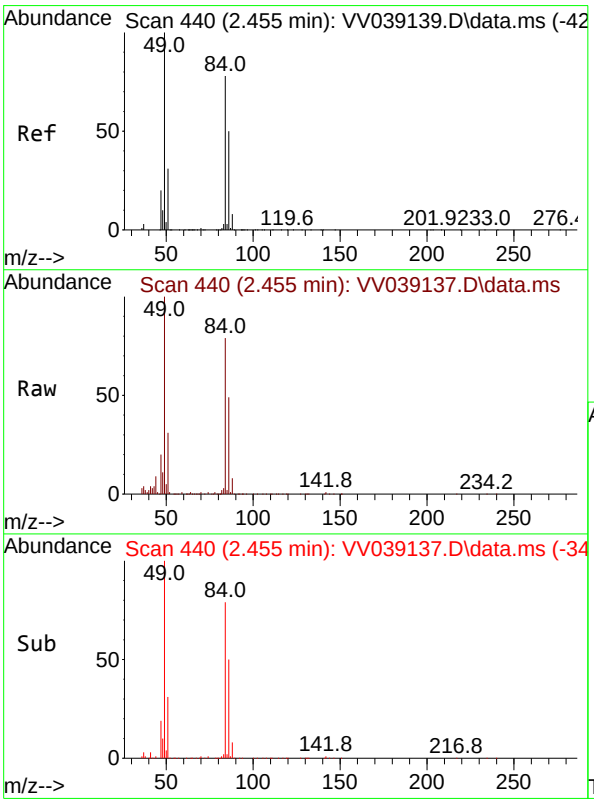
#19
Methyl tert-butyl Ether
Concen: 10.601 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 255535

Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.2	27.4

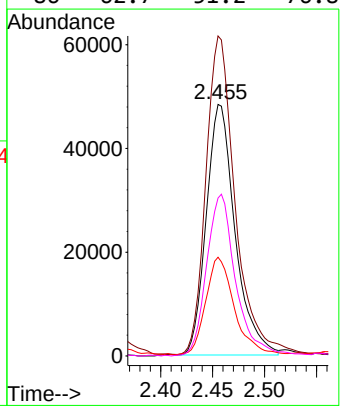


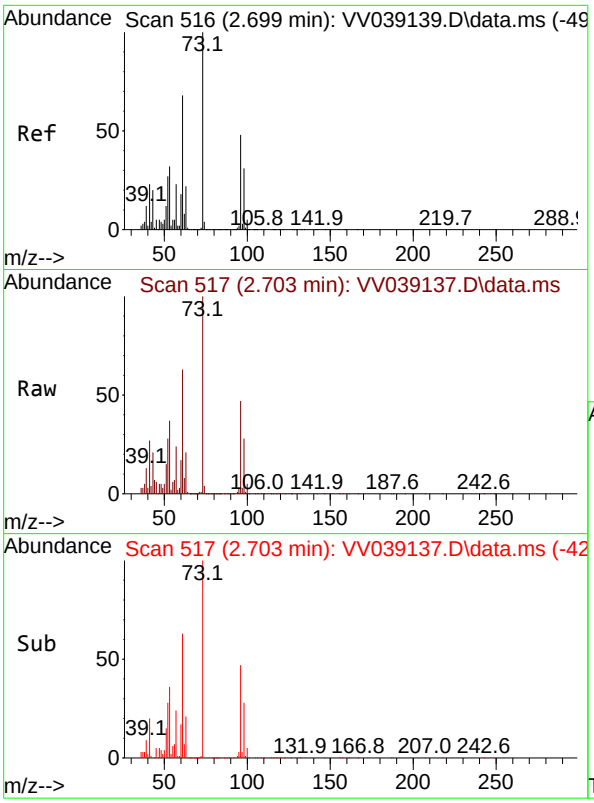


#20
Methylene Chloride
Concen: 10.106 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 84 Resp: 93350

Ion	Ratio	Lower	Upper
84	100		
49	127.1	102.8	154.2
51	38.7	31.9	47.9
86	62.7	51.2	76.8



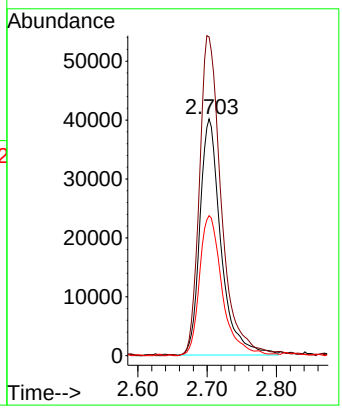


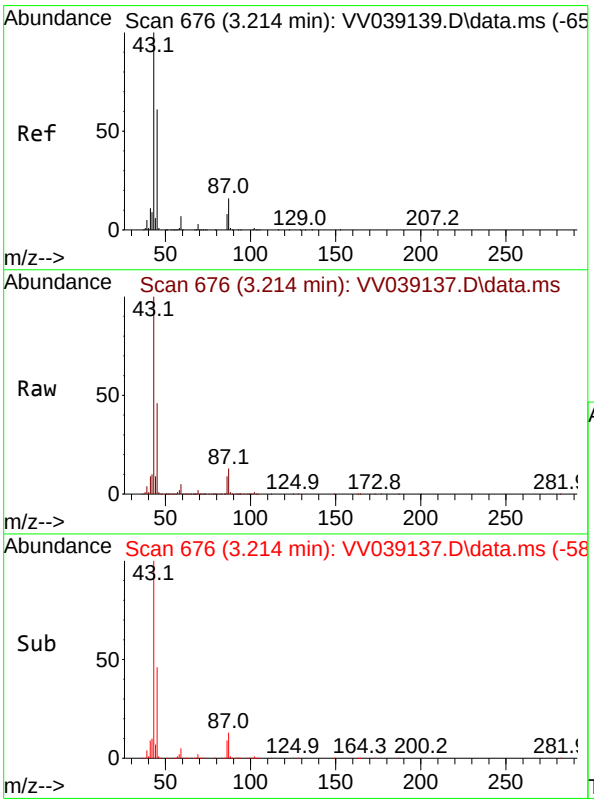
#21
trans-1,2-Dichloroethene
Concen: 10.541 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 84891

Ion	Ratio	Lower	Upper
96	100		
61	135.3	112.8	169.2
98	59.5	51.1	76.7

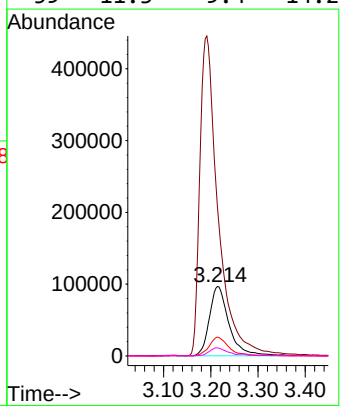


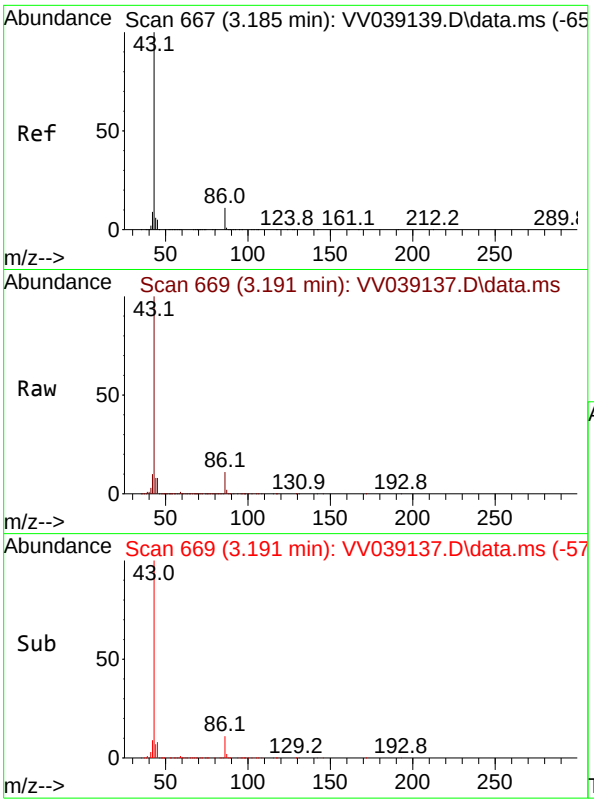


#22
Diisopropyl ether
Concen: 10.699 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 45 Resp: 276604

Ion	Ratio	Lower	Upper
45	100		
43	215.7	130.9	196.3#
87	26.8	21.1	31.7
59	11.3	9.4	14.2



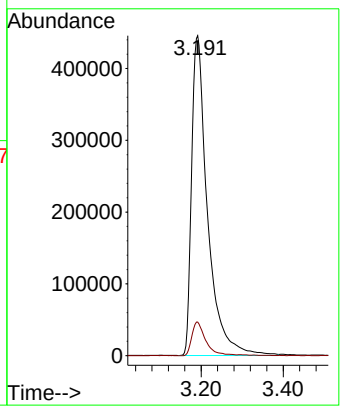


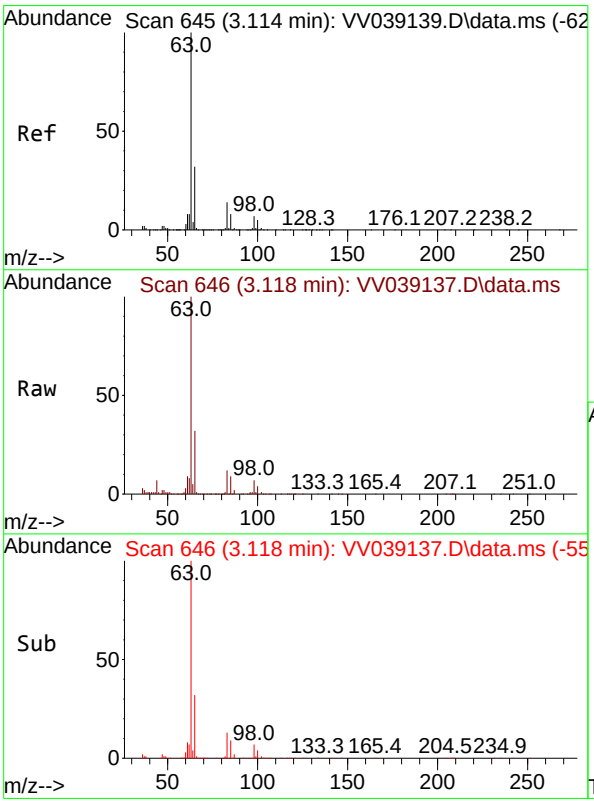
#23
Vinyl Acetate
Concen: 53.087 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 1200618

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.4	12.6

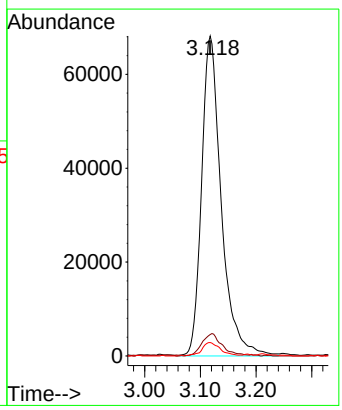


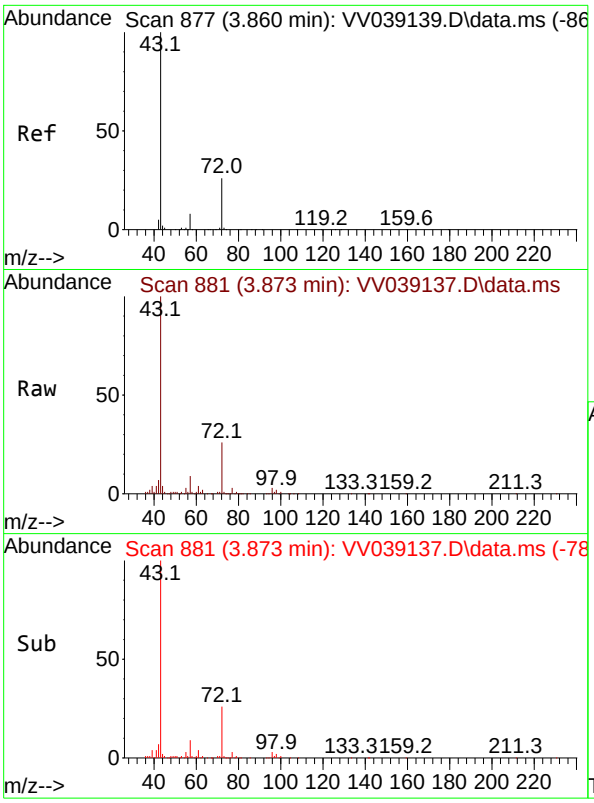


#24
1,1-Dichloroethane
Concen: 10.594 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 63 Resp: 167496

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.4	10.2
100	4.2	2.2	6.6



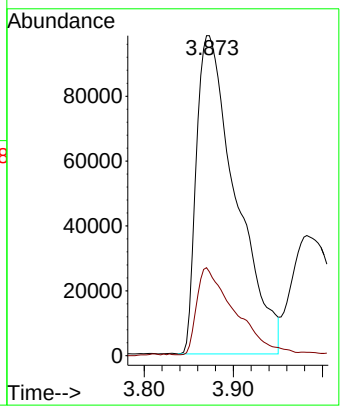


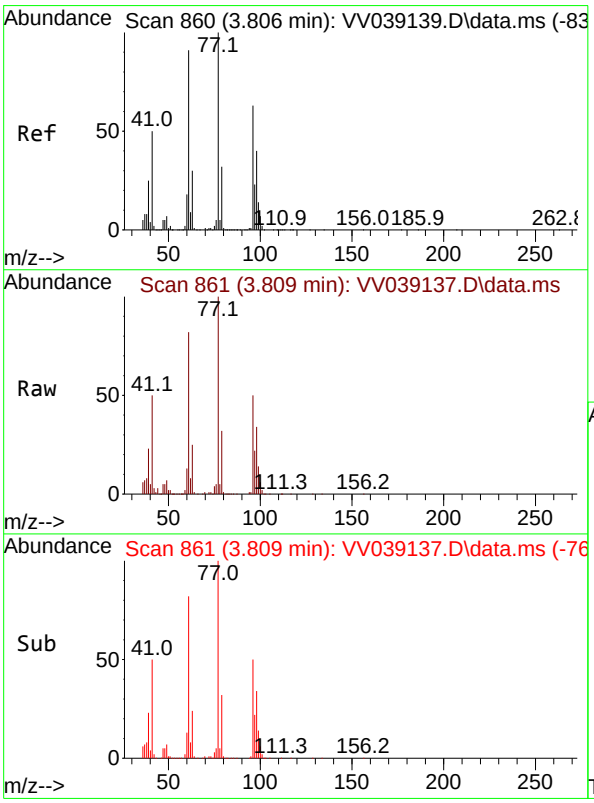
#25
2-Butanone
Concen: 53.015 ug/l
RT: 3.873 min Scan# 8
Delta R.T. 0.013 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 303016

Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.0	31.6

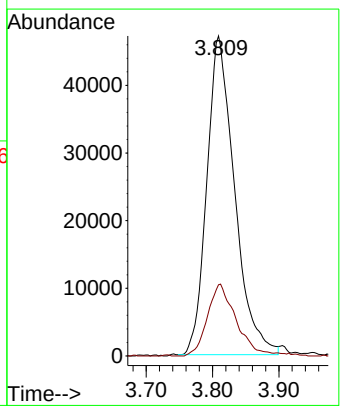


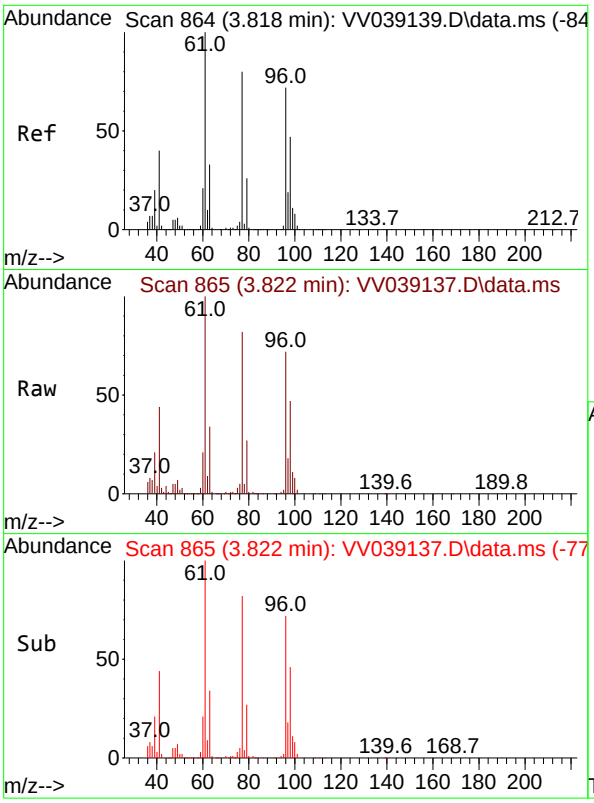


#26
2,2-Dichloropropane
Concen: 9.806 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 77 Resp: 136919

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



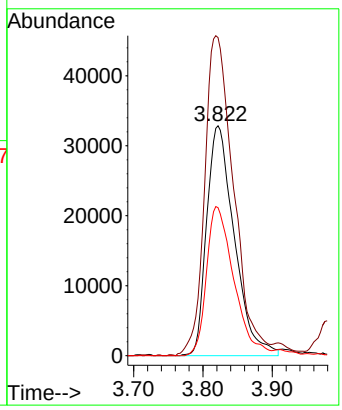


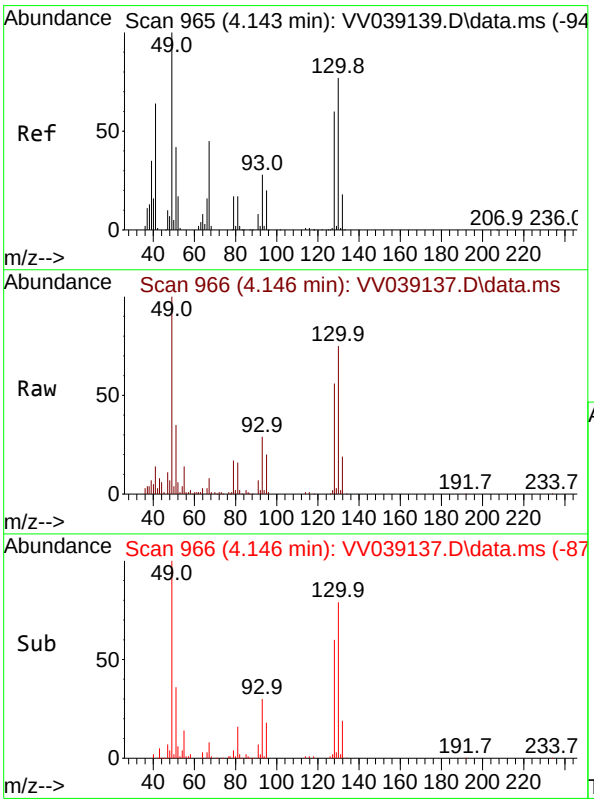
#27
cis-1,2-Dichloroethene
Concen: 10.254 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 91069

Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	286.4
98	63.9	0.0	126.6

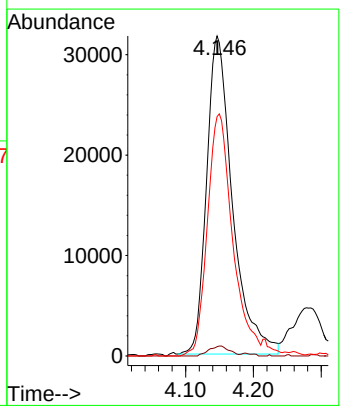


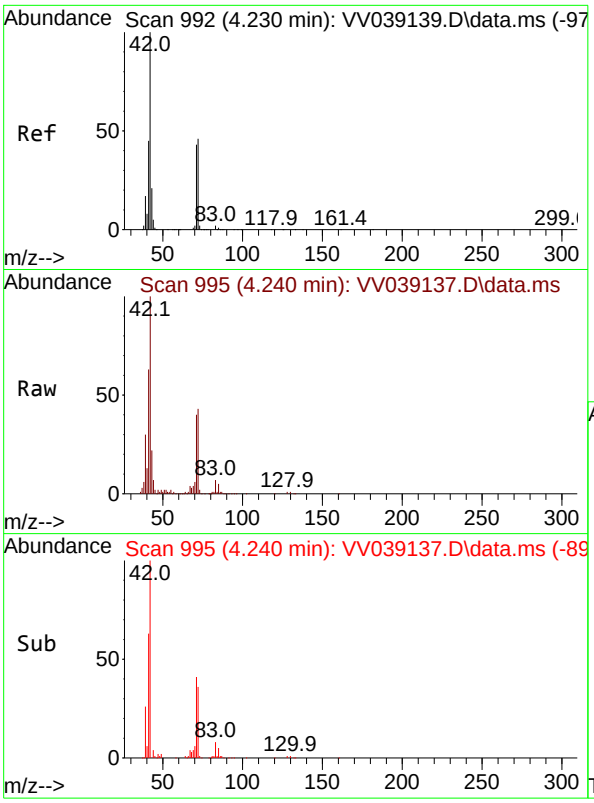


#28
Bromochloromethane
Concen: 12.019 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 49 Resp: 83889

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	73.9	60.2	90.2



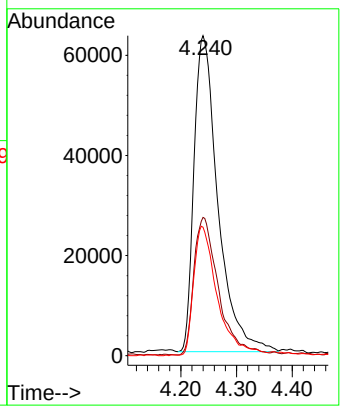


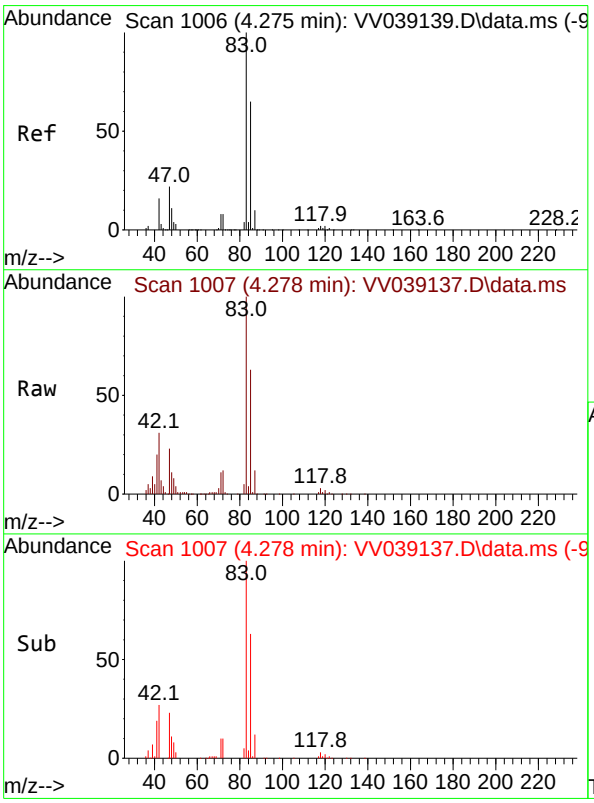
#29
Tetrahydrofuran
Concen: 51.879 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 188818

Ion	Ratio	Lower	Upper
42	100		
72	43.7	36.3	54.5
71	40.0	34.3	51.5

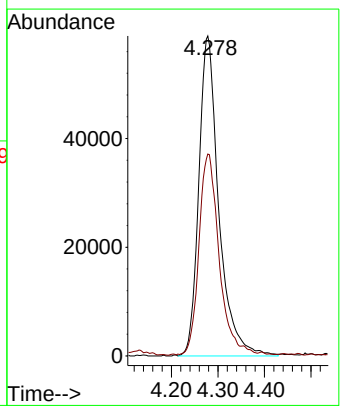


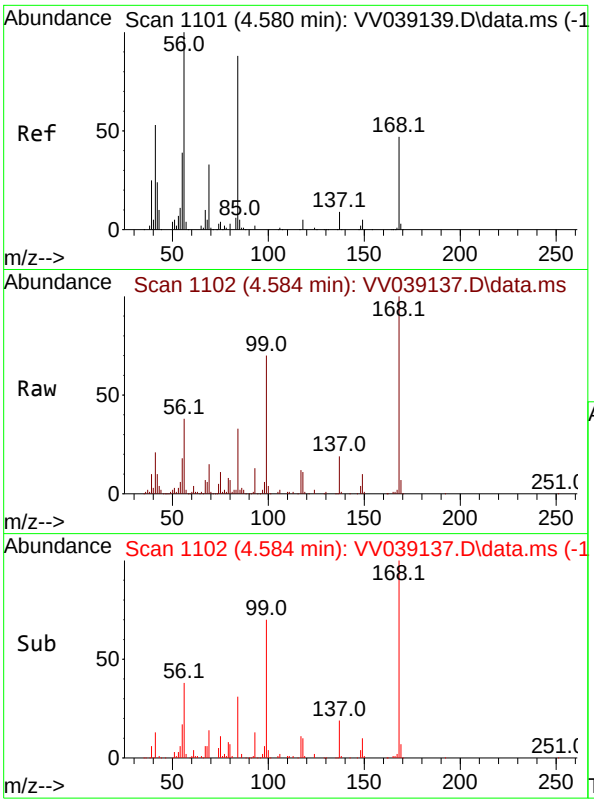


#30
Chloroform
Concen: 10.652 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 83 Resp: 175847

Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.1	78.1



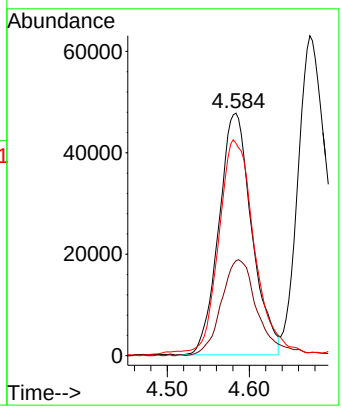


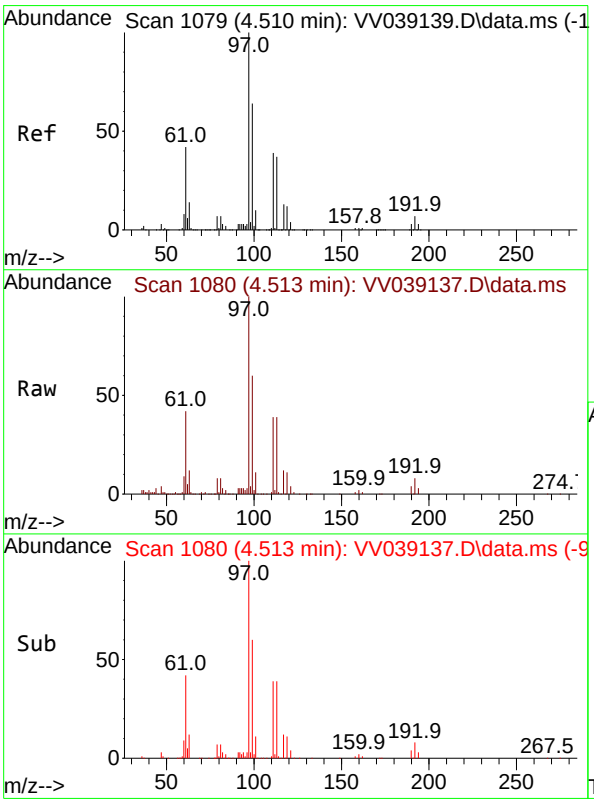
#31
Cyclohexane
Concen: 10.269 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 132996

Ion	Ratio	Lower	Upper
56	100		
69	38.9	26.2	39.2
84	86.0	70.3	105.5

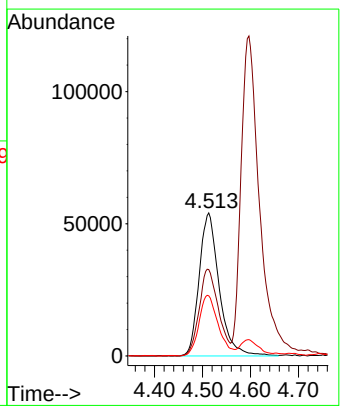


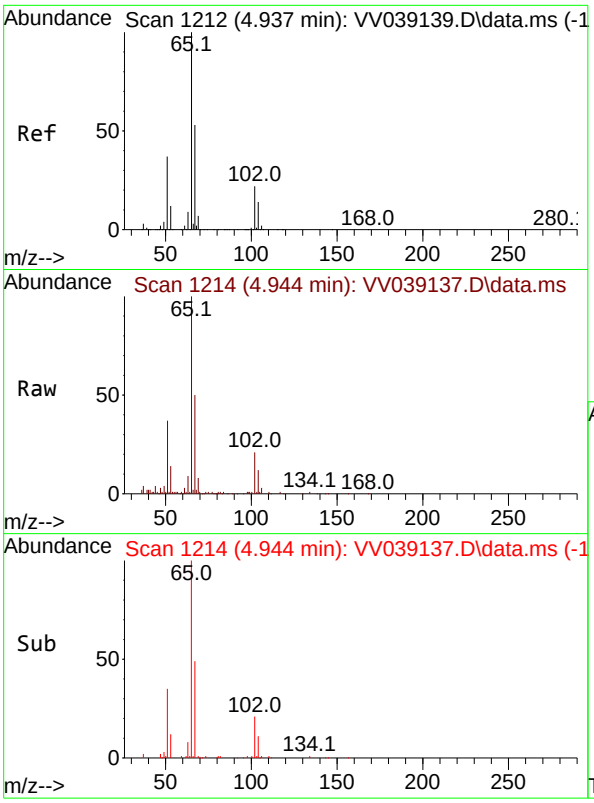


#32
1,1,1-Trichloroethane
Concen: 10.966 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 97 Resp: 156733

Ion	Ratio	Lower	Upper
97	100		
99	58.2	49.6	74.4
61	40.9	34.5	51.7



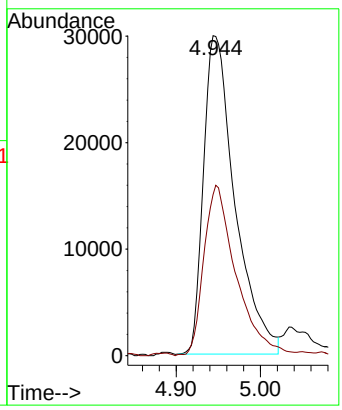


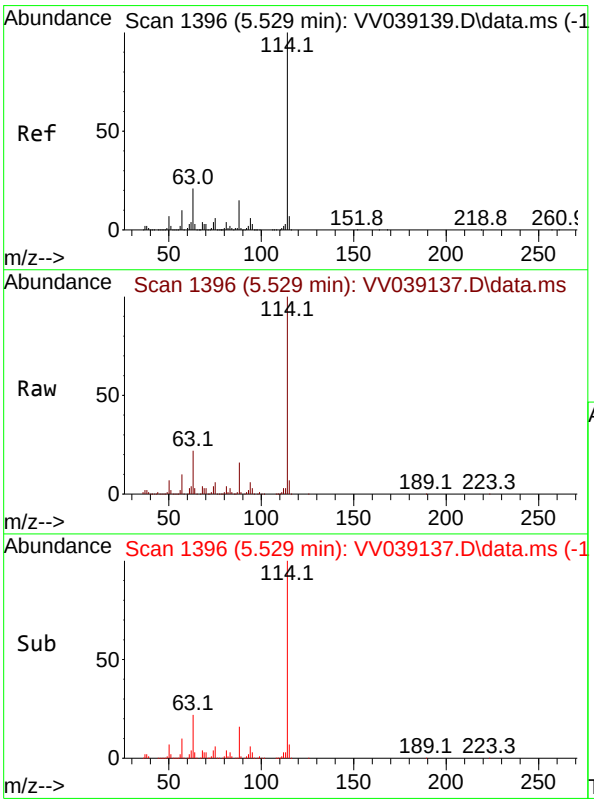
#33
1,2-Dichloroethane-d4
Concen: 10.688 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 77610

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	107.0

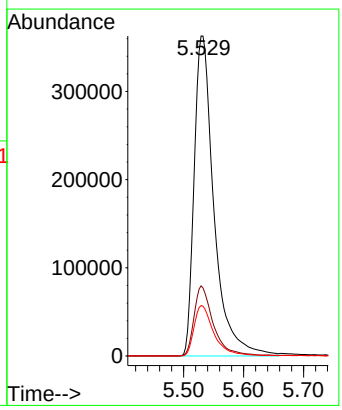


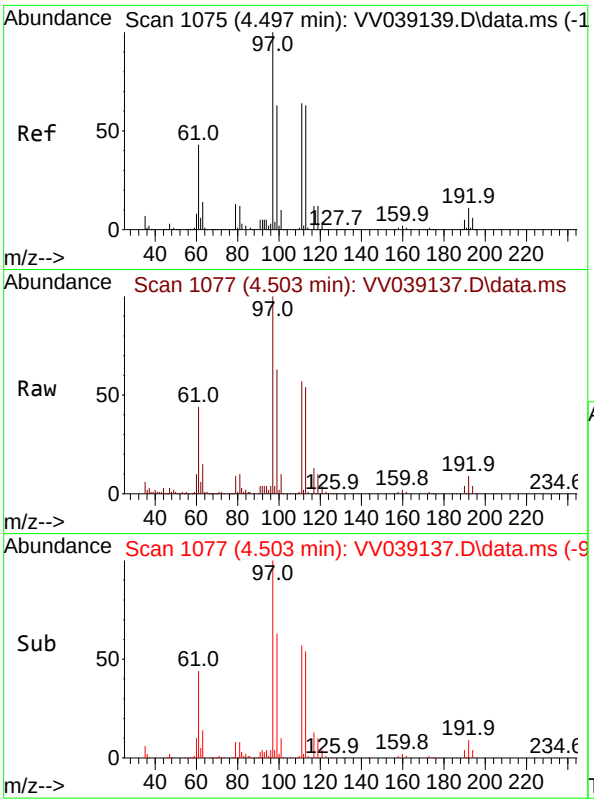


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:114 Resp: 837272

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	42.6
88	15.8	0.0	30.8



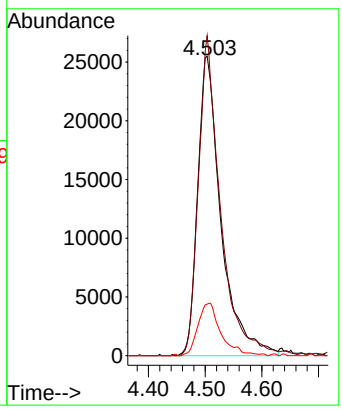


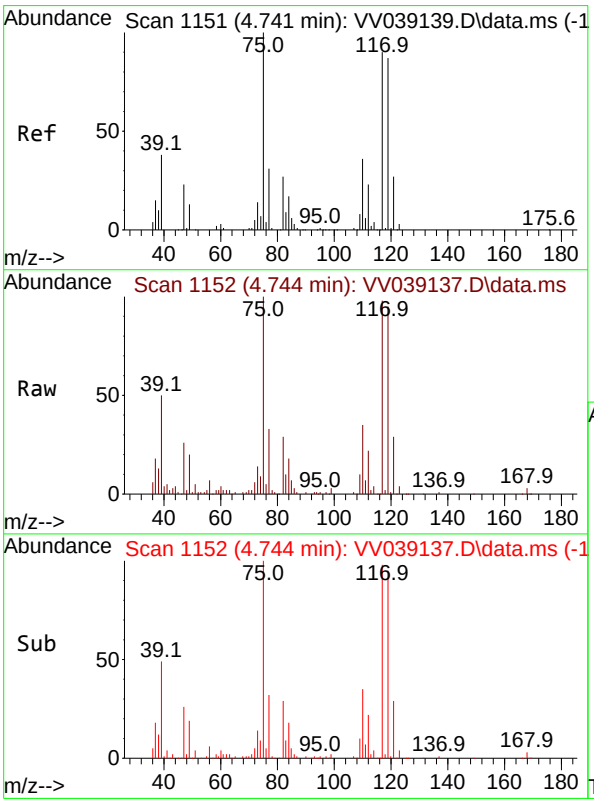
#35
Dibromofluoromethane
Concen: 10.833 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 72914

Ion	Ratio	Lower	Upper
113	100		
111	100.5	82.4	123.6
192	17.2	13.8	20.8

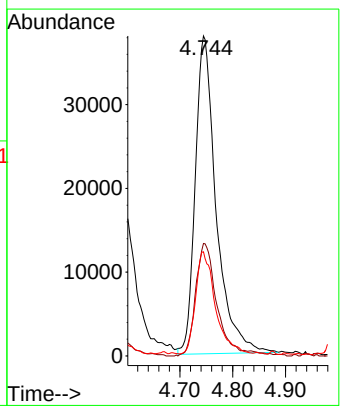


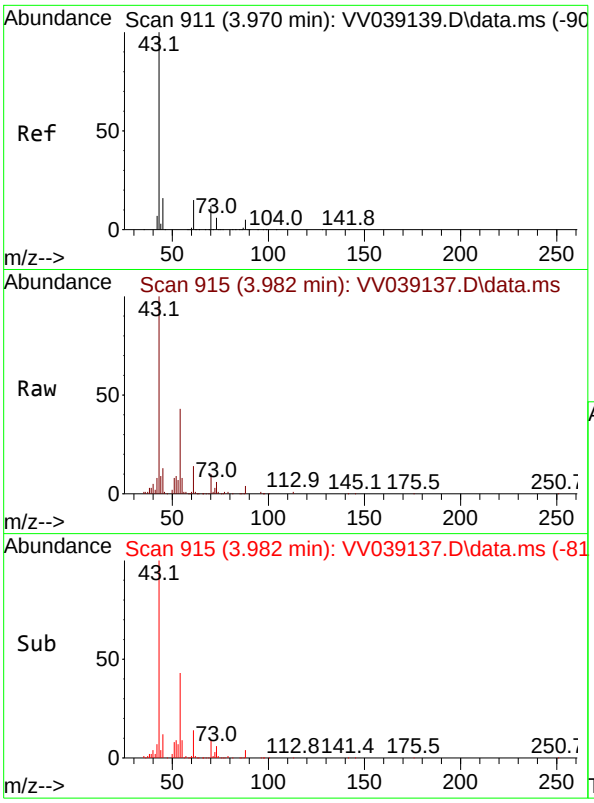


#36
1,1-Dichloropropene
Concen: 10.187 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 104420

Ion	Ratio	Lower	Upper
75	100		
110	35.4	18.1	54.1
77	30.2	24.8	37.2



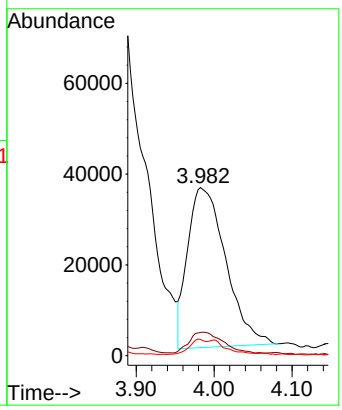


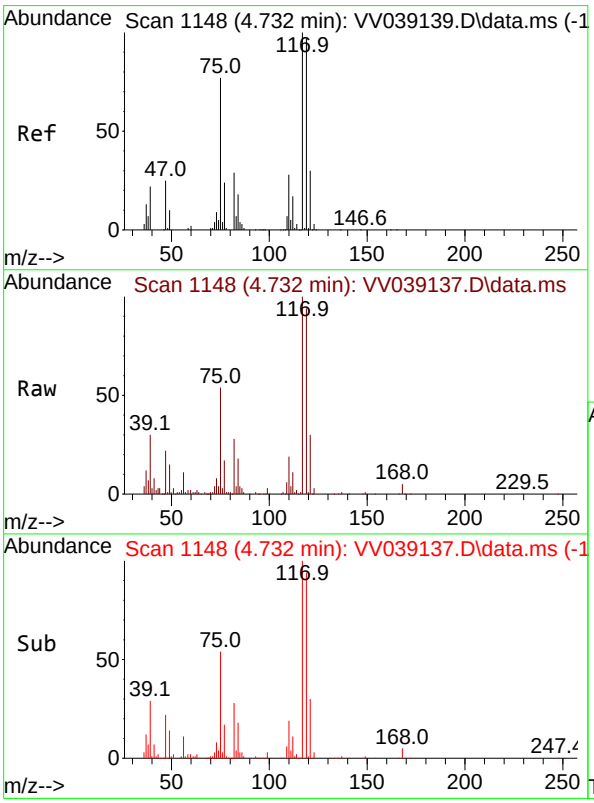
#37
Ethyl Acetate
Concen: 9.520 ug/l
RT: 3.982 min Scan# 9
Delta R.T. 0.012 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 119710

Ion	Ratio	Lower	Upper
43	100		
61	11.2	10.3	15.5
70	4.3	8.0	12.0#

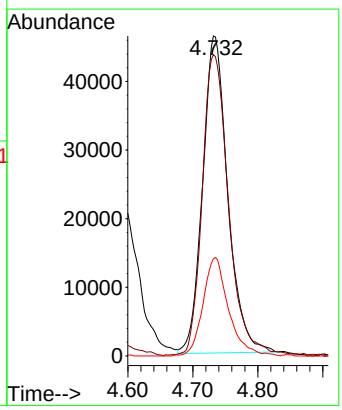


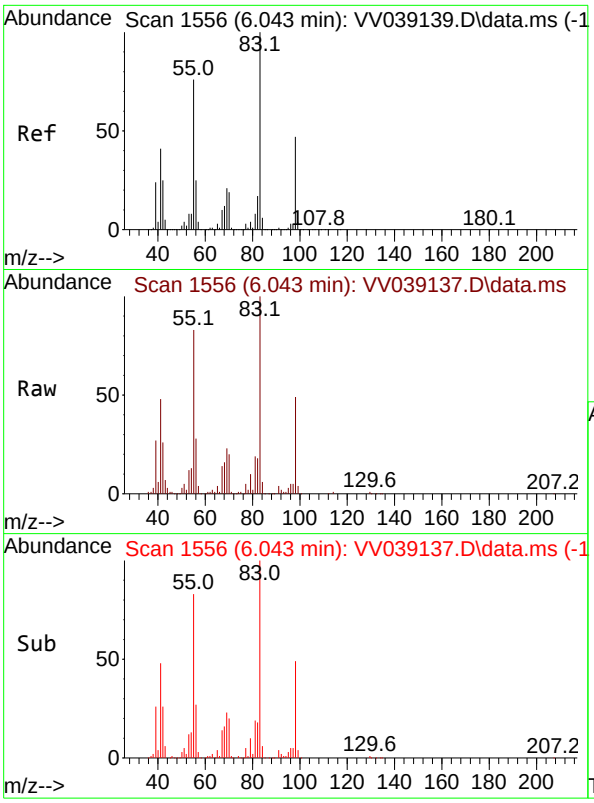


#38
Carbon Tetrachloride
Concen: 10.069 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:117 Resp: 124321

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.2	115.8
121	30.5	24.2	36.2



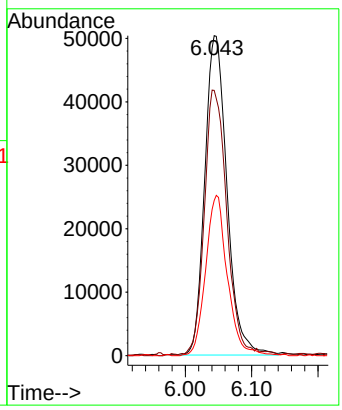


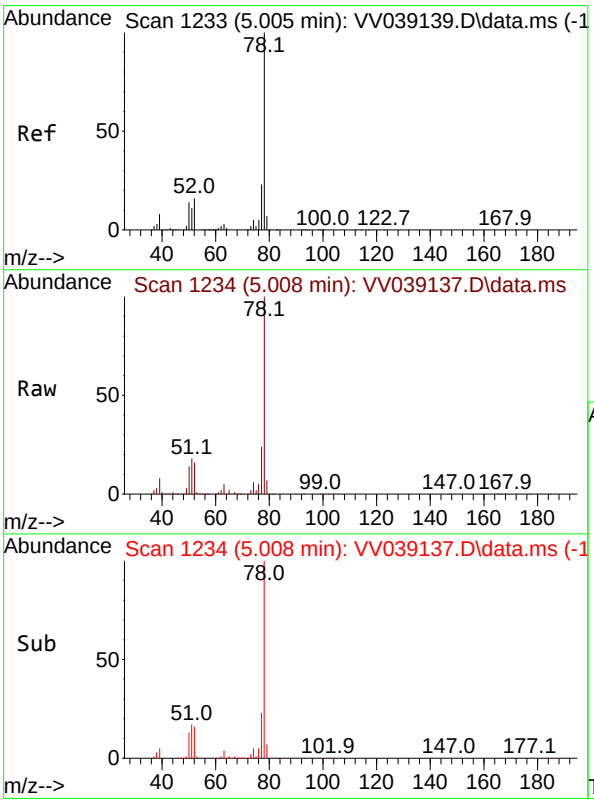
#39
Methylcyclohexane
Concen: 9.549 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 117354

Ion	Ratio	Lower	Upper
83	100		
55	82.7	60.5	90.7
98	48.6	37.8	56.6

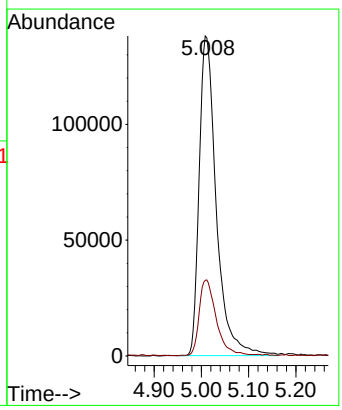


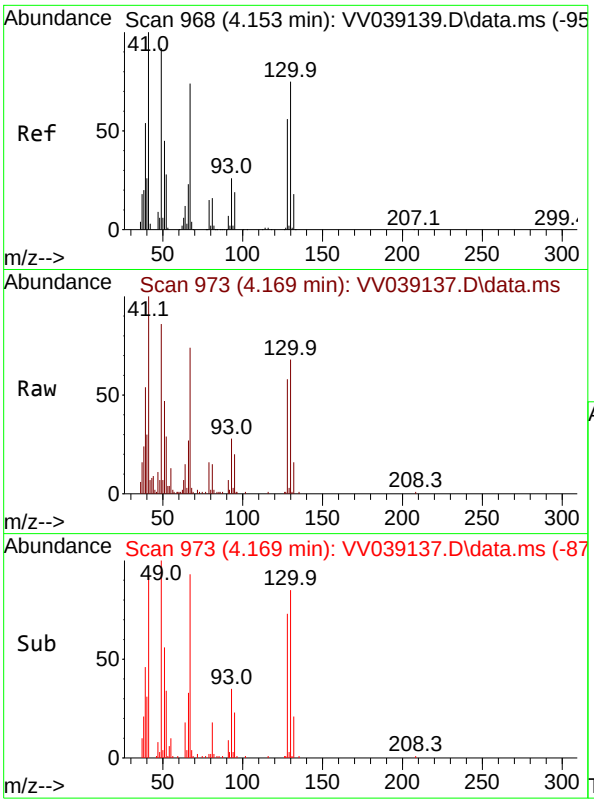


#40
Benzene
Concen: 10.493 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 78 Resp: 347728

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1



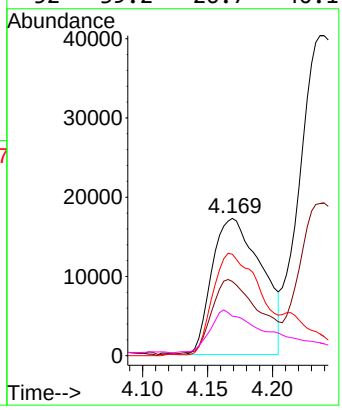


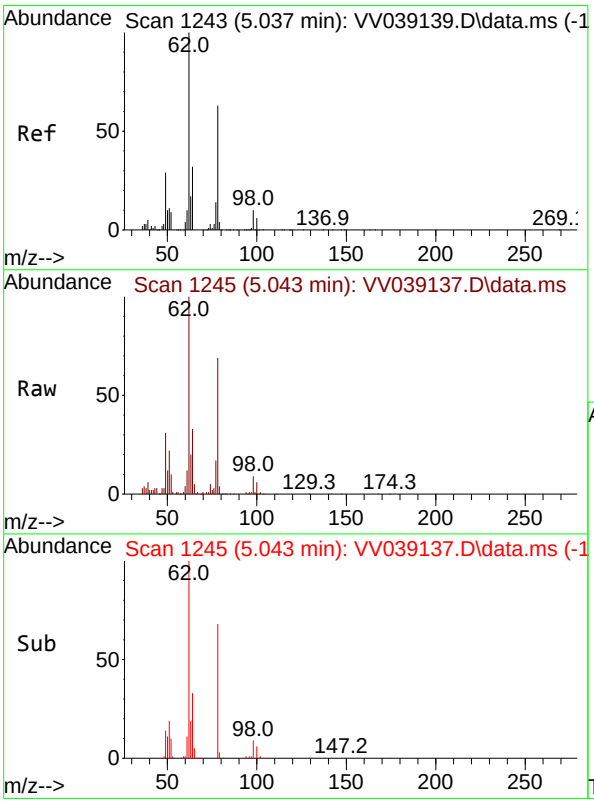
#41
Methacrylonitrile
Concen: 9.764 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 45674

Ion	Ratio	Lower	Upper
41	100		
39	53.9	42.2	63.2
67	70.9	67.9	101.9
52	39.2	26.7	40.1

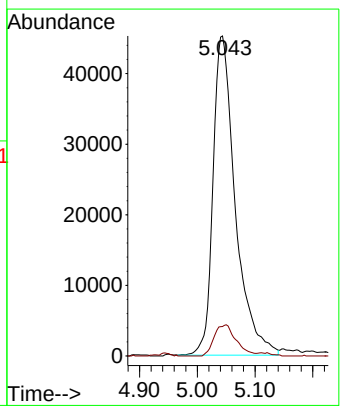


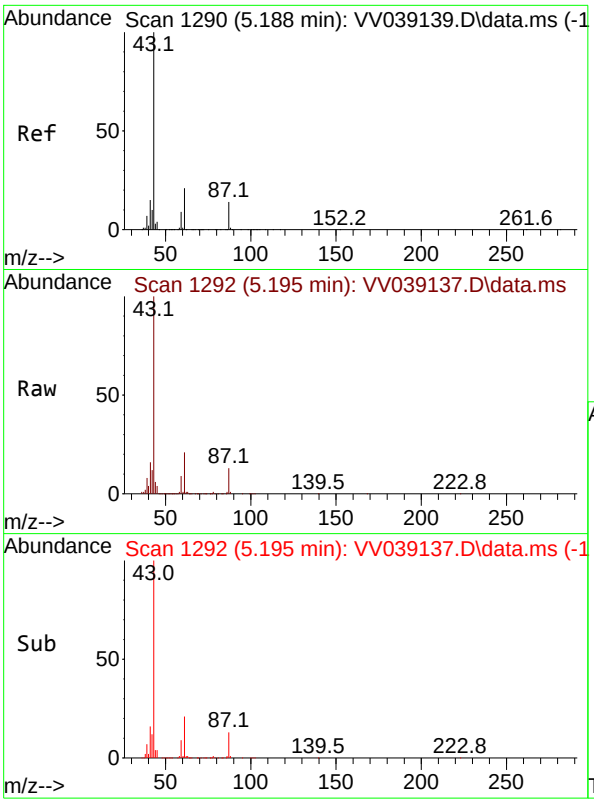


#42
1,2-Dichloroethane
Concen: 10.458 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 62 Resp: 121437

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.2



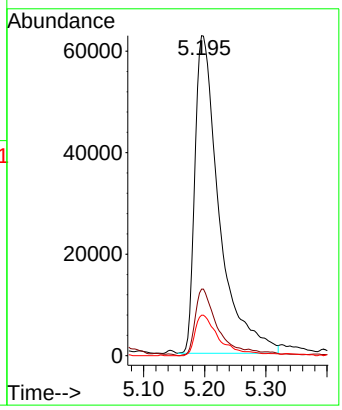


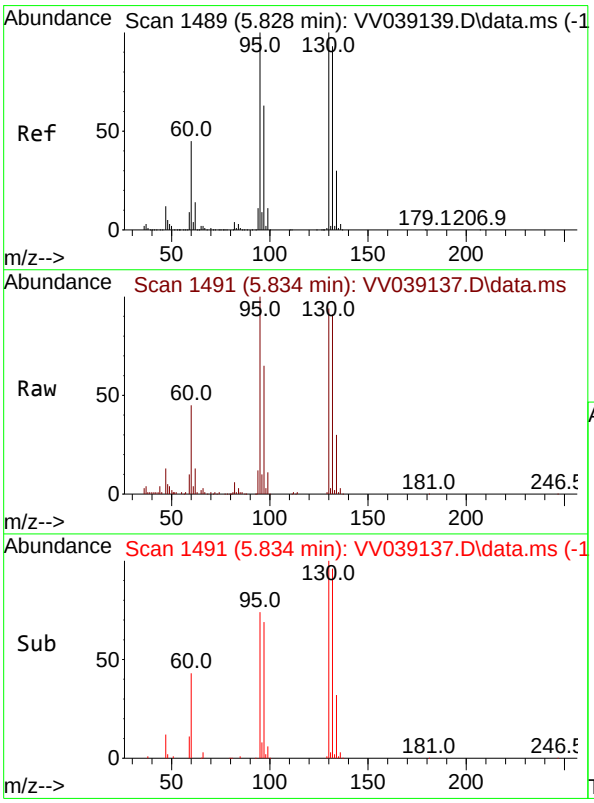
#43
Isopropyl Acetate
Concen: 9.980 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 172880

Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.9	23.9
87	12.7	11.0	16.6

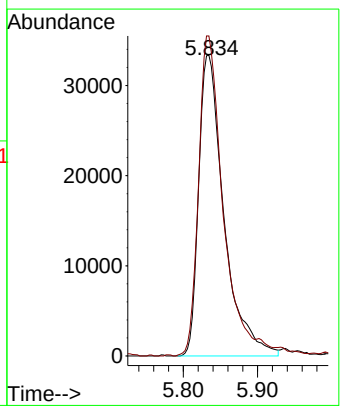


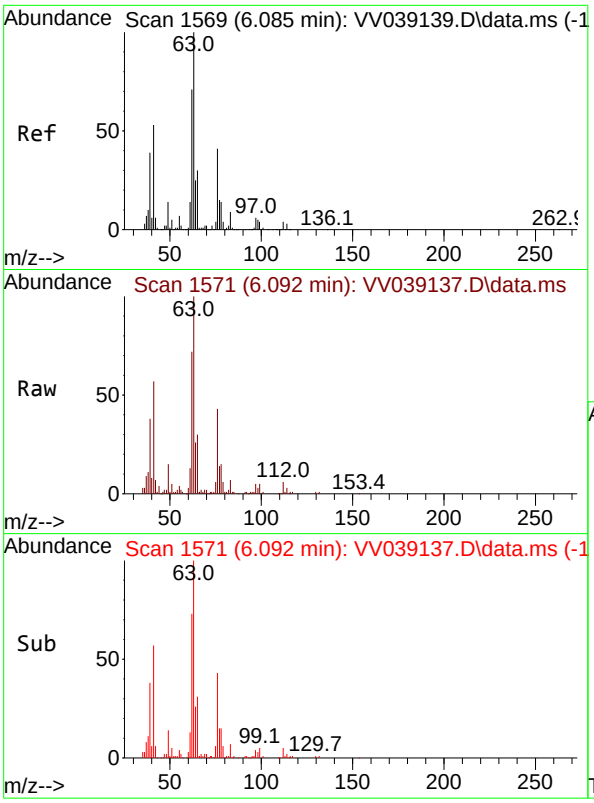


#44
Trichloroethene
Concen: 10.324 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:130 Resp: 78943

Ion	Ratio	Lower	Upper
130	100		
95	106.2	0.0	199.2



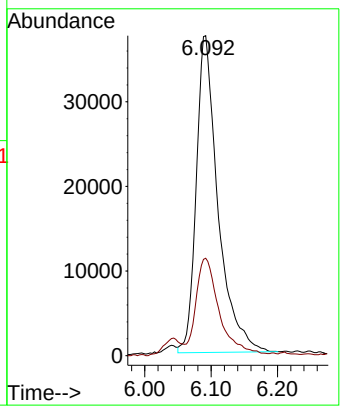


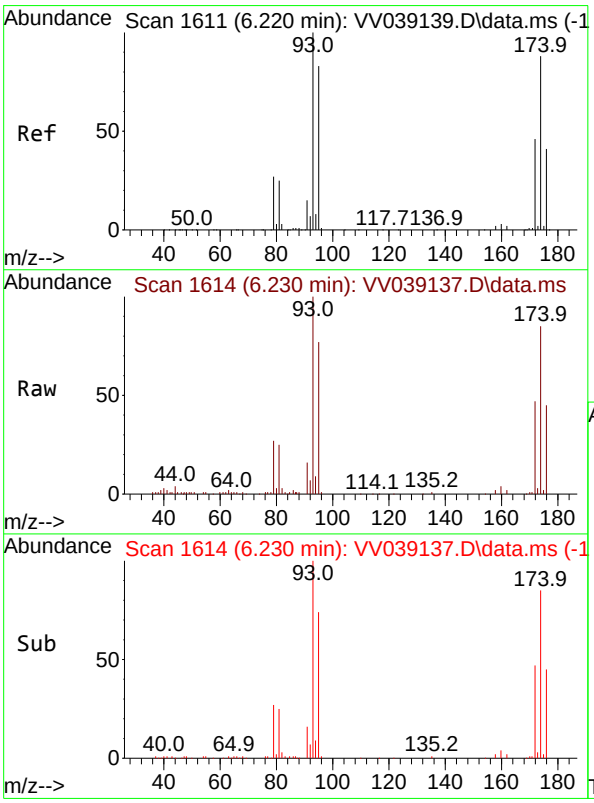
#45
1,2-Dichloropropane
Concen: 10.355 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 85295

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.7	35.5

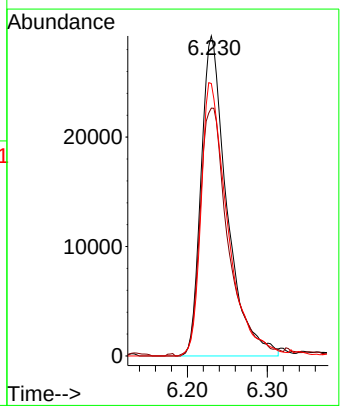


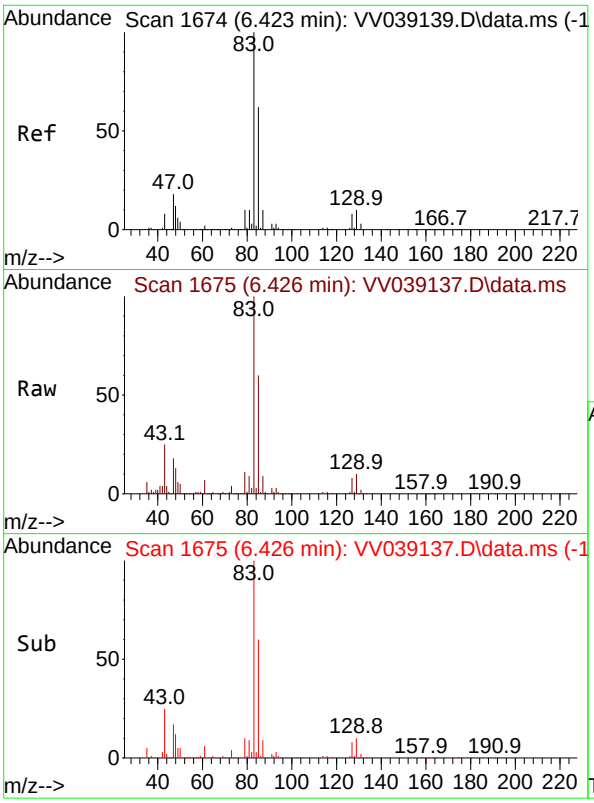


#46
Dibromomethane
Concen: 10.424 ug/l
RT: 6.230 min Scan# 1614
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 93 Resp: 65717

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.5	98.3
174	87.7	69.0	103.4



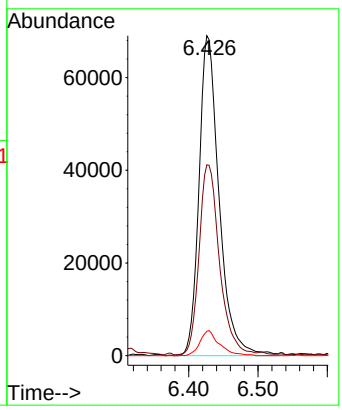


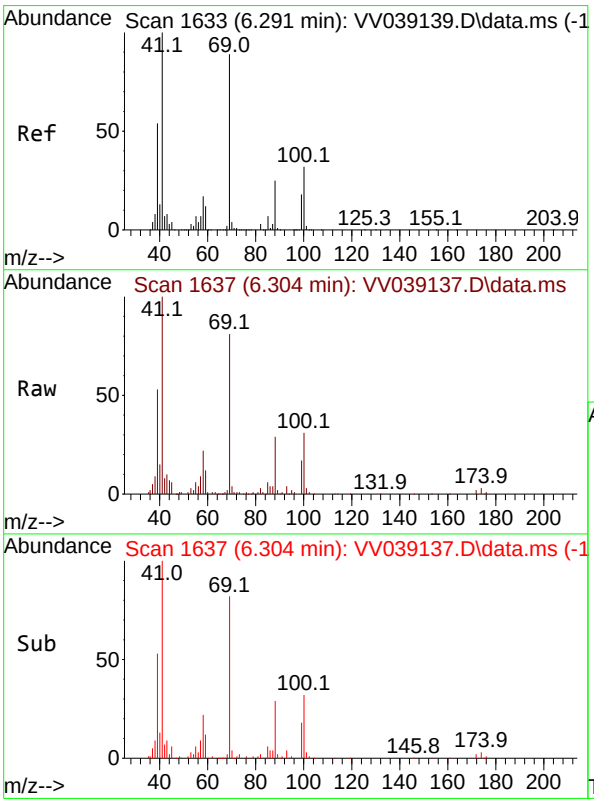
#47
Bromodichloromethane
Concen: 10.685 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 139261

Ion	Ratio	Lower	Upper
83	100		
85	59.3	49.7	74.5
127	7.6	6.6	9.8

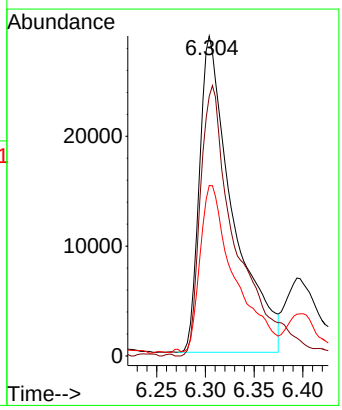


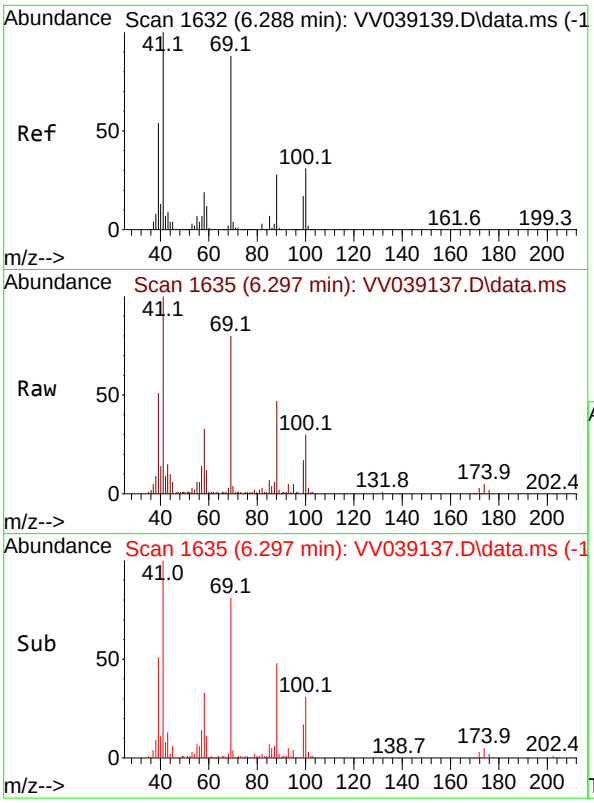


#48
Methyl methacrylate
Concen: 8.639 ug/l
RT: 6.304 min Scan# 1637
Delta R.T. 0.013 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 41 Resp: 68465

Ion	Ratio	Lower	Upper
41	100		
69	93.4	72.4	108.6
39	54.3	42.5	63.7



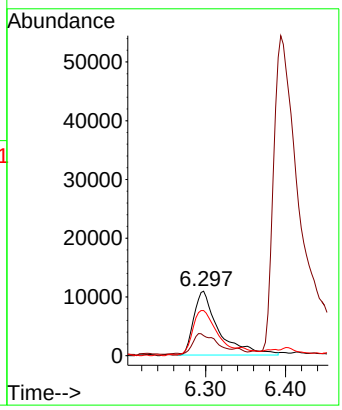


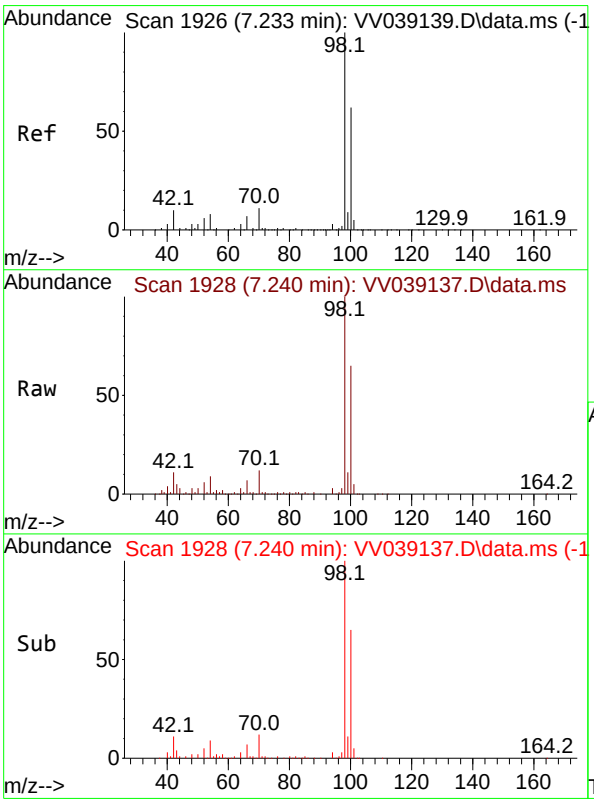
#49
1,4-Dioxane
Concen: 190.260 ug/l
RT: 6.297 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 23699

Ion	Ratio	Lower	Upper
88	100		
43	31.1	25.1	37.7
58	65.5	53.6	80.4

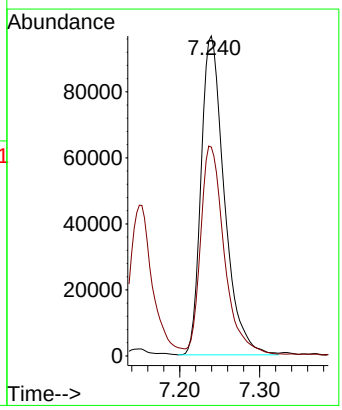


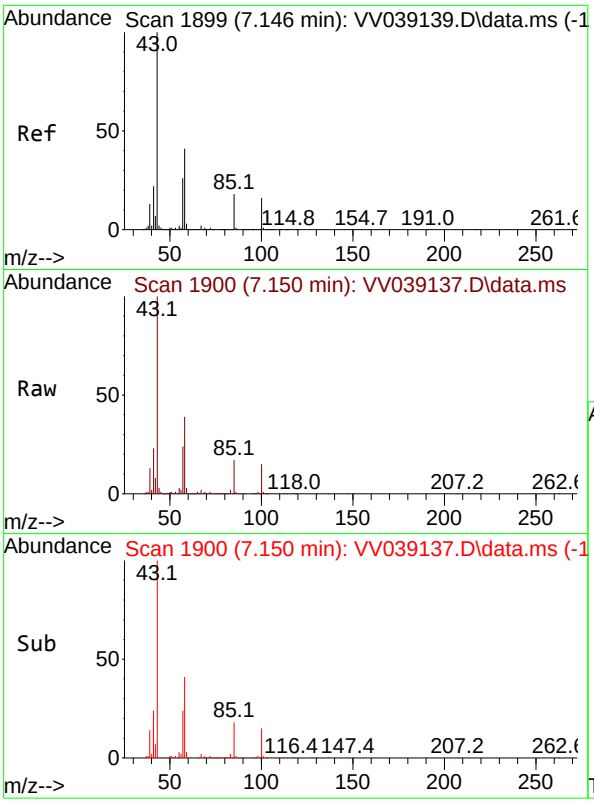


#50
Toluene-d8
Concen: 9.879 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 98 Resp: 195300

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.2	78.2



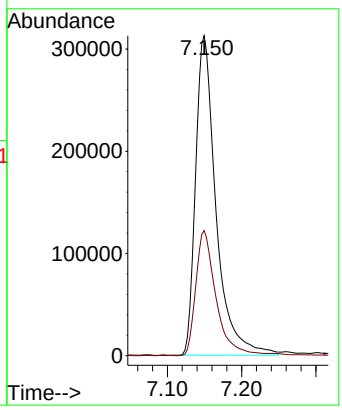


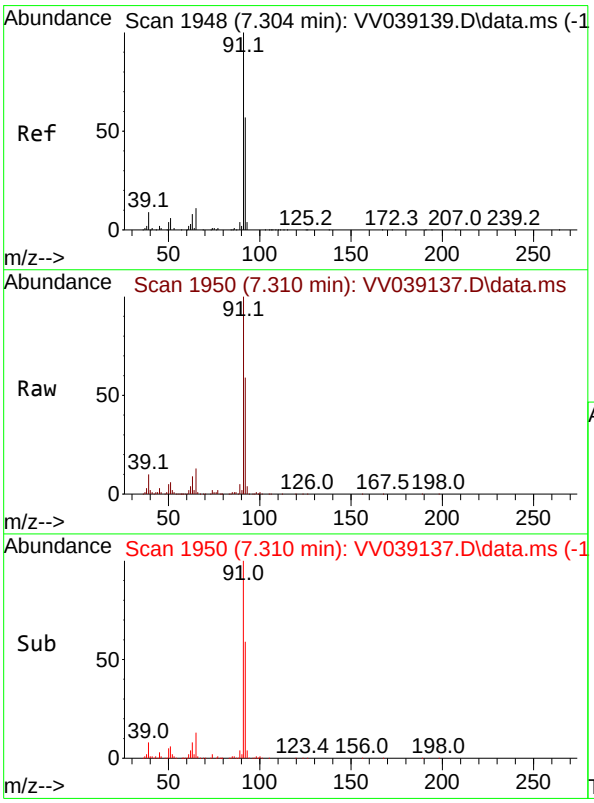
#51
4-Methyl-2-Pentanone
Concen: 54.051 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 598702

Ion	Ratio	Lower	Upper
43	100		
58	38.7	32.3	48.5

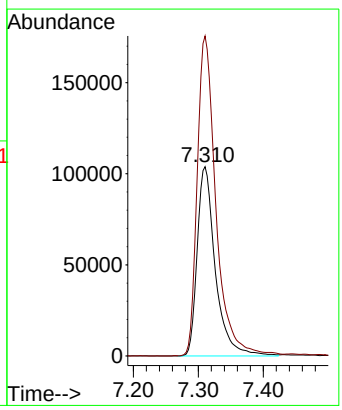


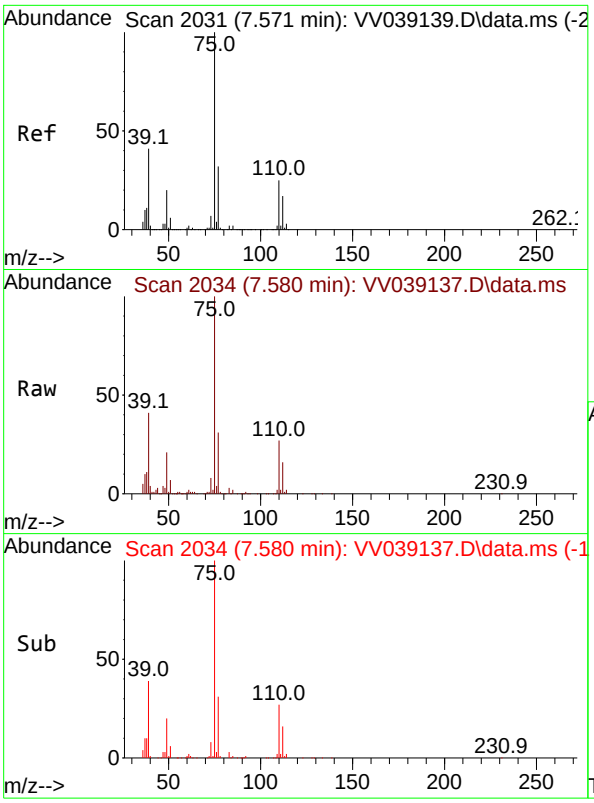


#52
Toluene
Concen: 10.552 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 92 Resp: 202741

Ion	Ratio	Lower	Upper
92	100		
91	174.4	139.2	208.8



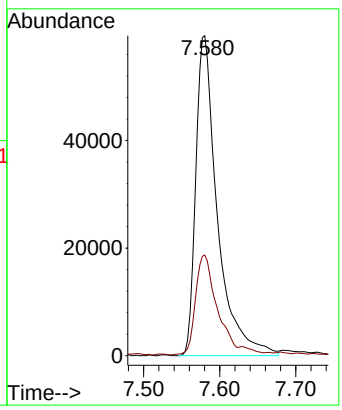


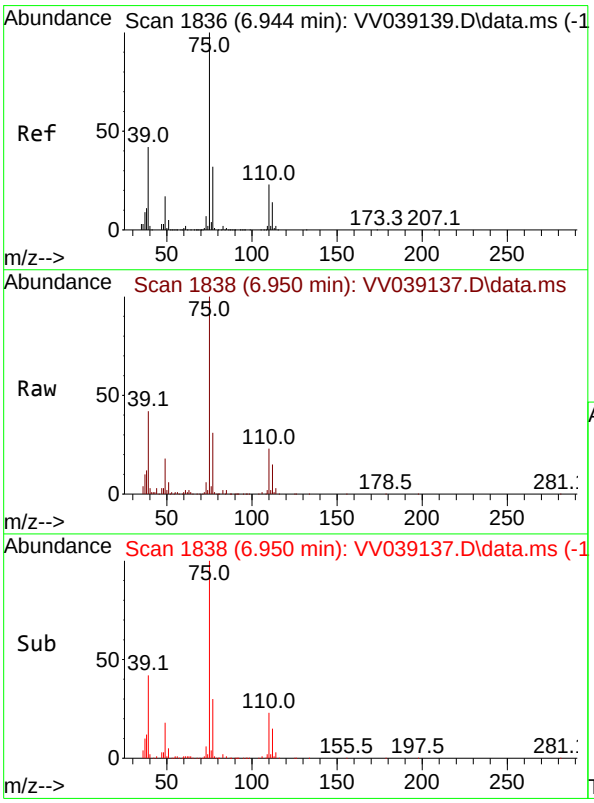
#53
t-1,3-Dichloropropene
Concen: 10.329 ug/l
RT: 7.580 min Scan# 2
Delta R.T. 0.009 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 117314

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.9	38.9

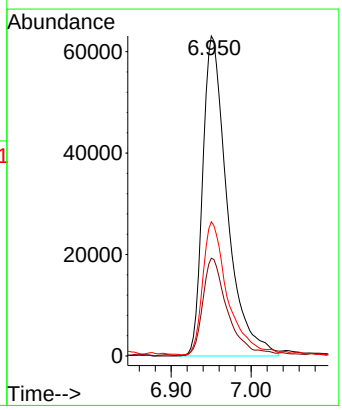


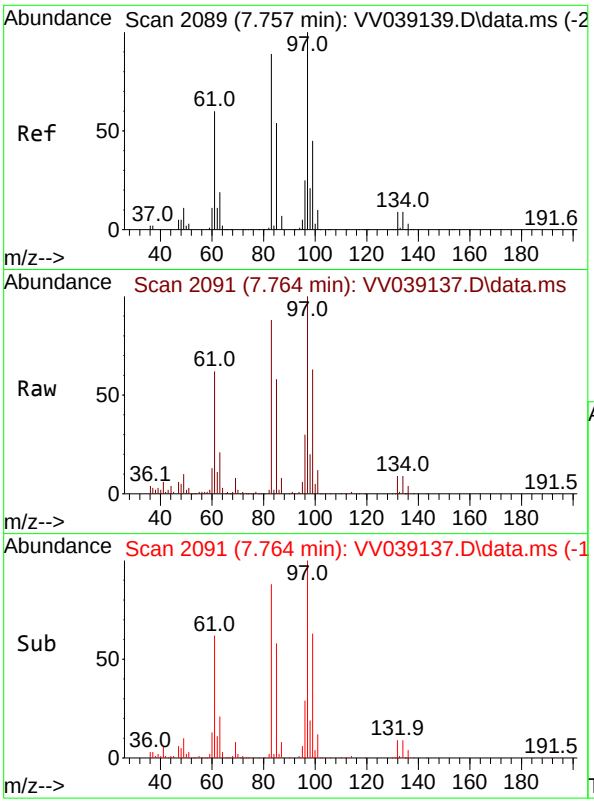


#54
cis-1,3-Dichloropropene
Concen: 10.729 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 134529

Ion	Ratio	Lower	Upper
75	100		
77	30.3	25.5	38.3
39	41.5	33.8	50.6



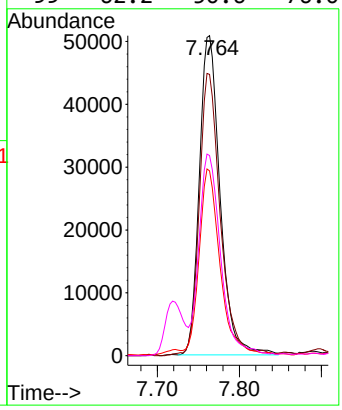


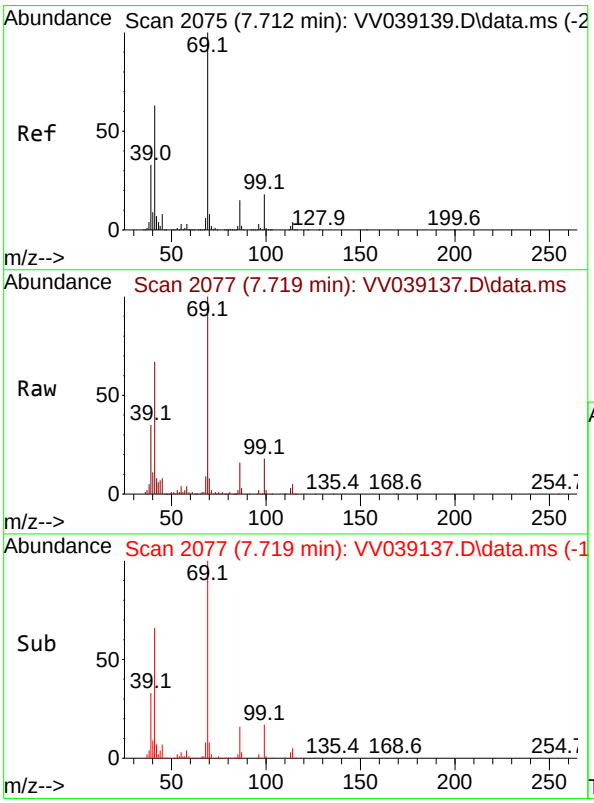
#55
1,1,2-Trichloroethane
Concen: 10.376 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 89390

Ion	Ratio	Lower	Upper
97	100		
83	87.4	71.1	106.7
85	57.3	44.6	67.0
99	62.2	50.6	76.0

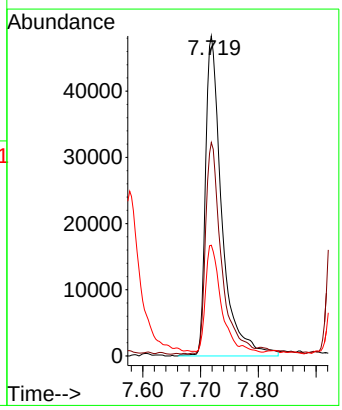


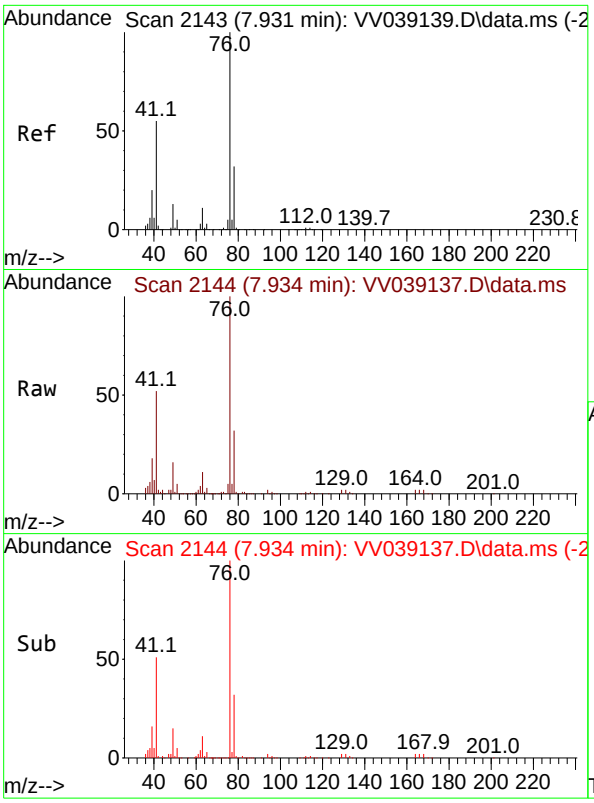


#56
Ethyl methacrylate
Concen: 9.313 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 69 Resp: 95279

Ion	Ratio	Lower	Upper
69	100		
41	63.5	50.7	76.1
39	30.5	26.0	39.0



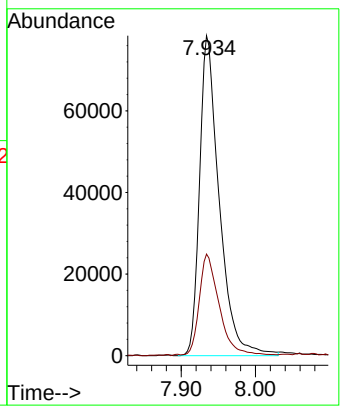


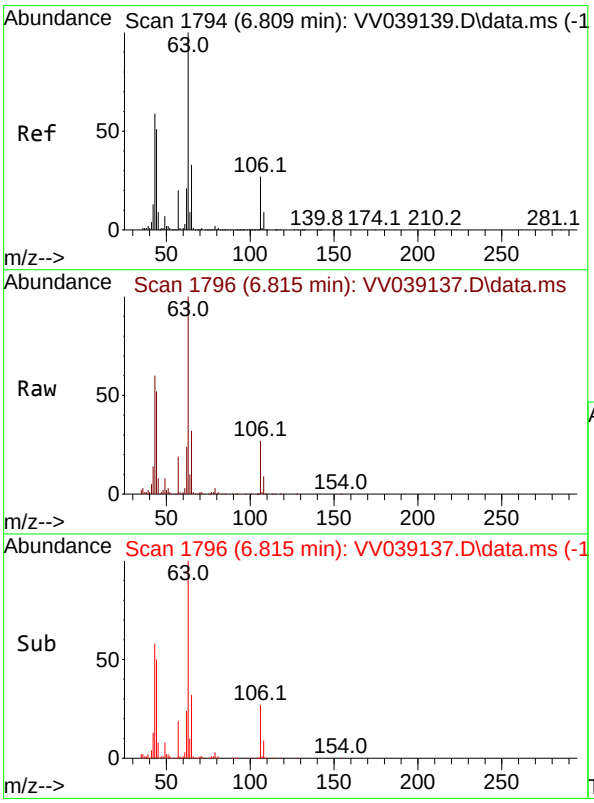
#57
1,3-Dichloropropane
Concen: 10.607 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 144218

Ion	Ratio	Lower	Upper
76	100		
78	31.3	26.1	39.1

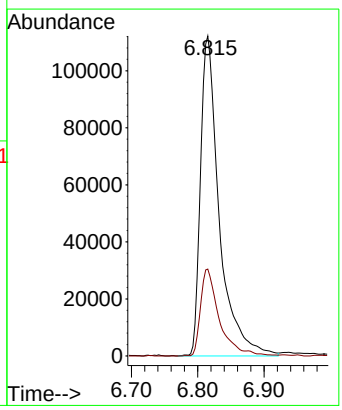


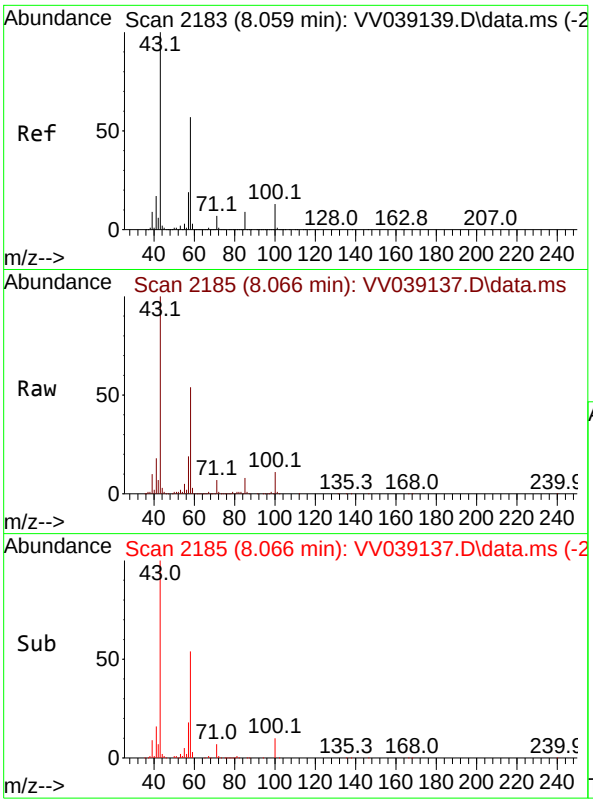


#58
2-Chloroethyl Vinyl ether
Concen: 46.148 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 63 Resp: 220693

Ion	Ratio	Lower	Upper
63	100		
106	27.2	22.1	33.1



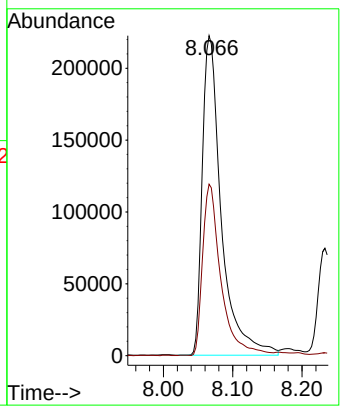


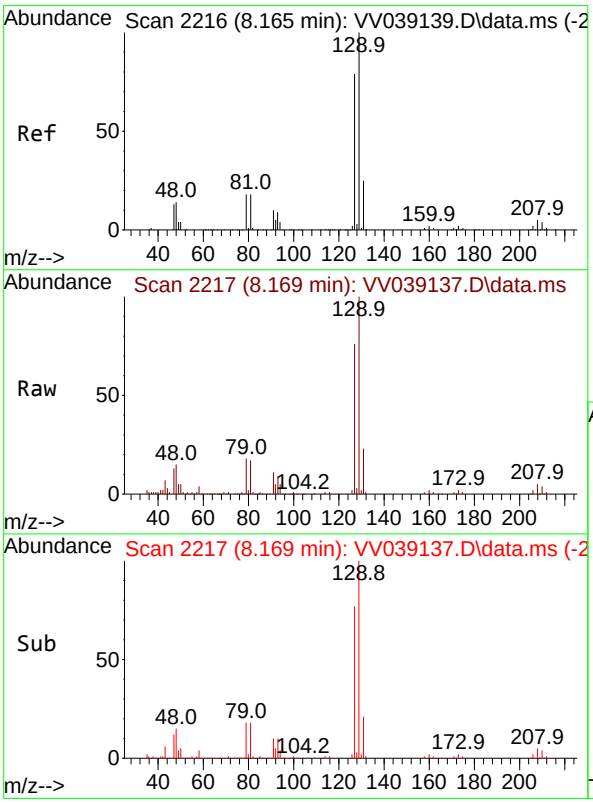
#59
2-Hexanone
Concen: 49.020 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 422703

Ion	Ratio	Lower	Upper
43	100		
58	51.7	28.3	85.0

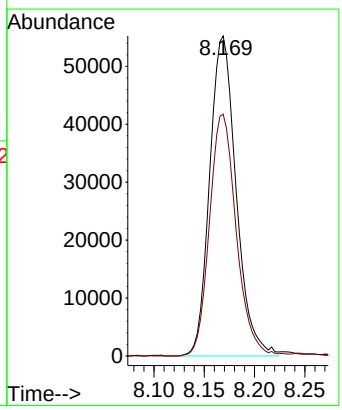


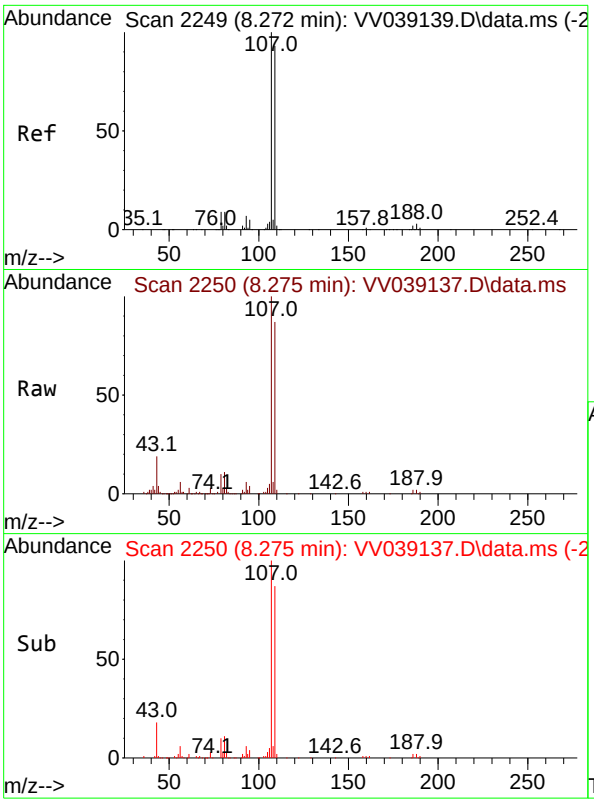


#60
Dibromochloromethane
Concen: 10.313 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:129 Resp: 101236

Ion	Ratio	Lower	Upper
129	100		
127	76.4	39.3	117.9



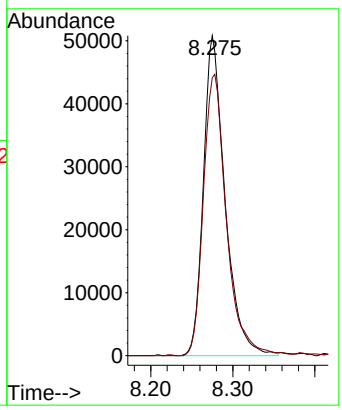


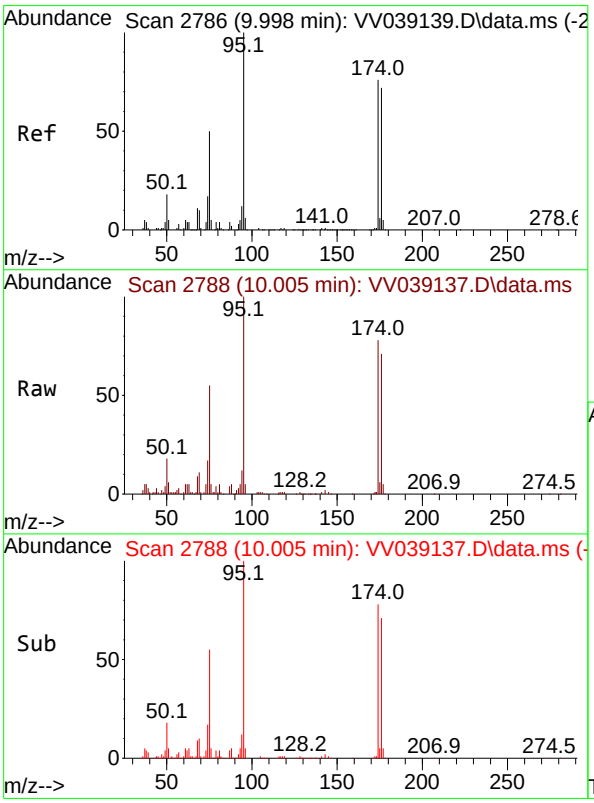
#61
1,2-Dibromoethane
Concen: 10.576 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 93182

Ion	Ratio	Lower	Upper
107	100		
109	93.6	74.6	112.0

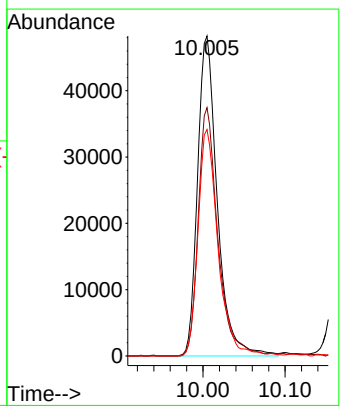


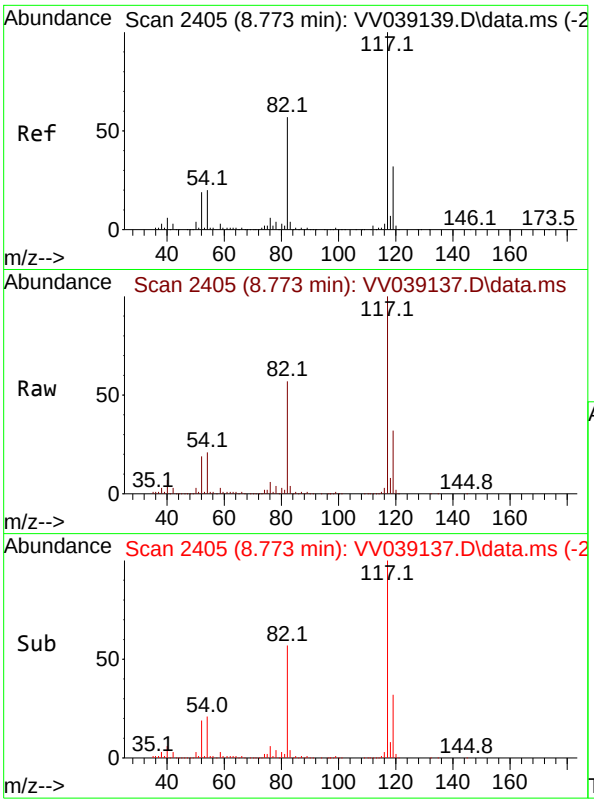


#62
4-Bromofluorobenzene
Concen: 9.902 ug/l
RT: 10.005 min Scan# 2788
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 95 Resp: 80587

Ion	Ratio	Lower	Upper
95	100		
174	77.1	0.0	150.4
176	71.7	0.0	144.2



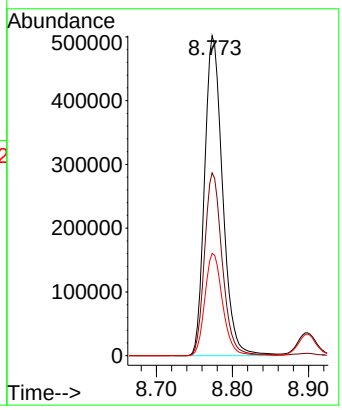


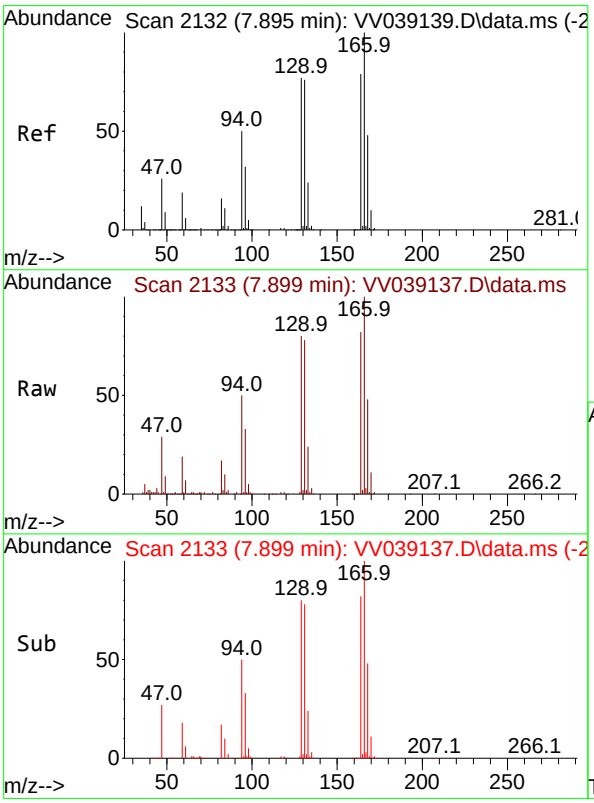
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 824583

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.4	68.2
119	31.9	25.6	38.4

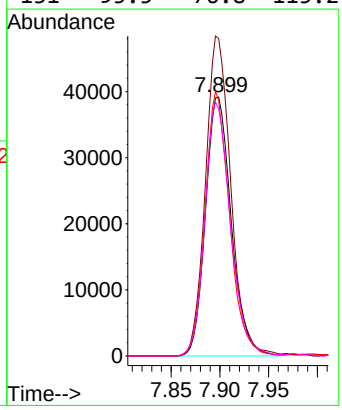


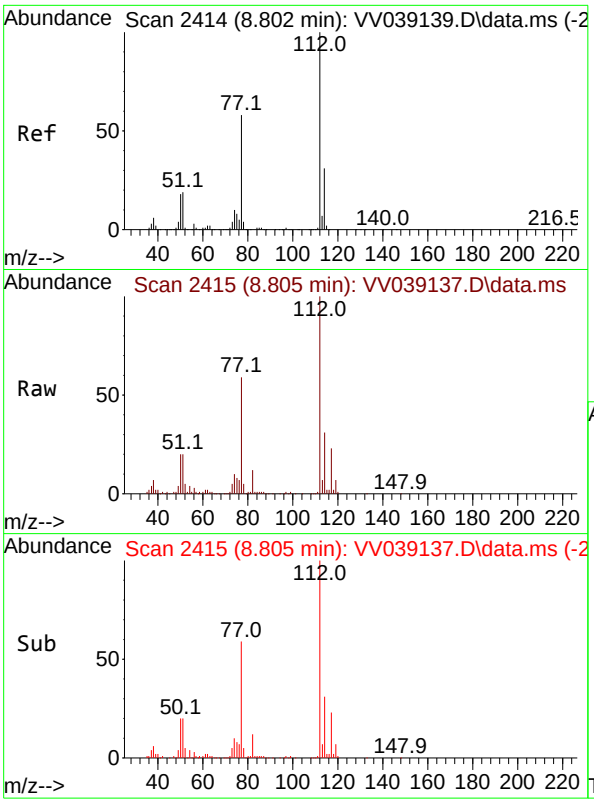


#64
Tetrachloroethene
Concen: 10.397 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:164 Resp: 71811

Ion	Ratio	Lower	Upper
164	100		
166	122.7	101.6	152.4
129	98.7	78.5	117.7
131	95.5	76.8	115.2



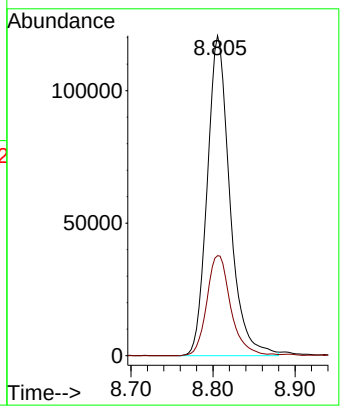


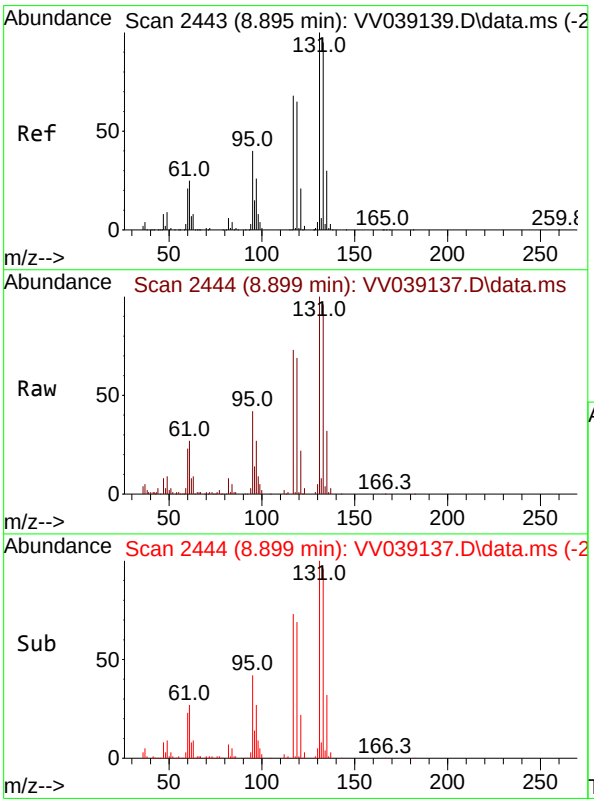
#65
Chlorobenzene
Concen: 10.072 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 231329

Ion	Ratio	Lower	Upper
112	100		
114	31.3	24.6	37.0

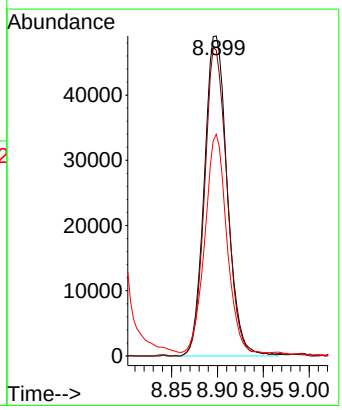


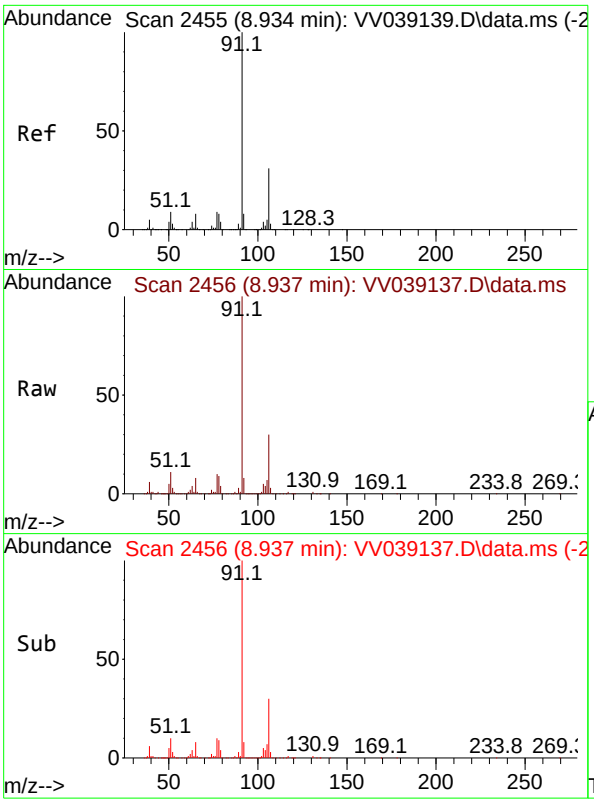


#66
1,1,1,2-Tetrachloroethane
Concen: 10.324 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:131 Resp: 85678

Ion	Ratio	Lower	Upper
131	100		
133	94.3	47.3	141.8
119	65.4	33.3	99.8



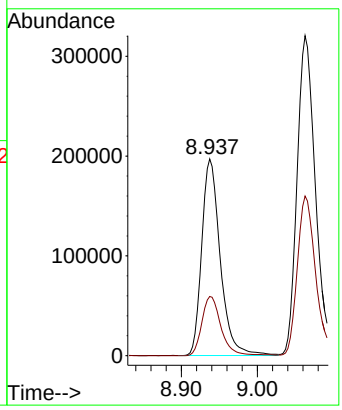


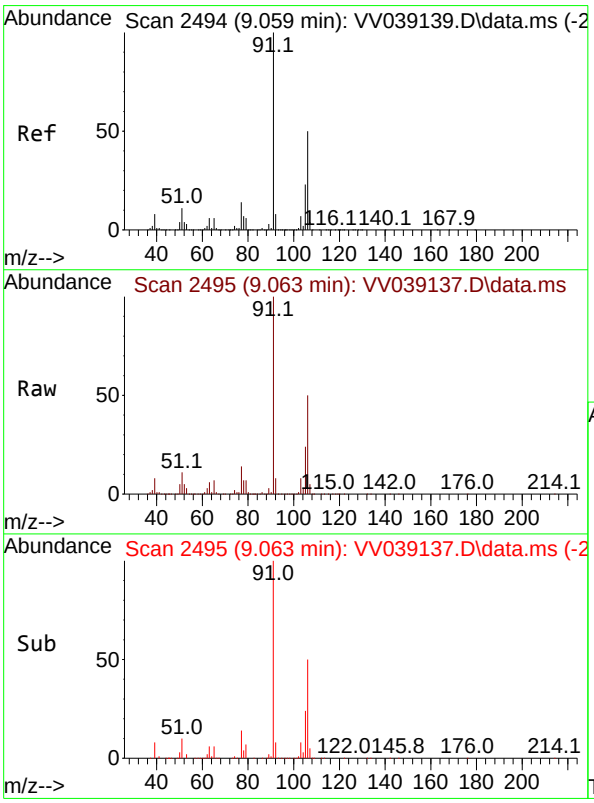
#67
Ethyl Benzene
Concen: 9.618 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 334394

Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.6	37.0

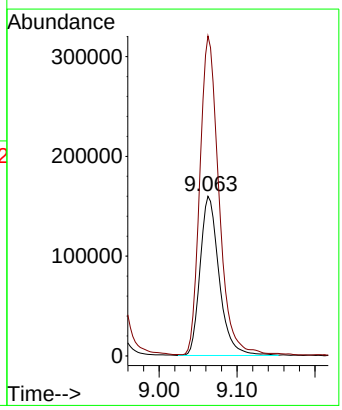


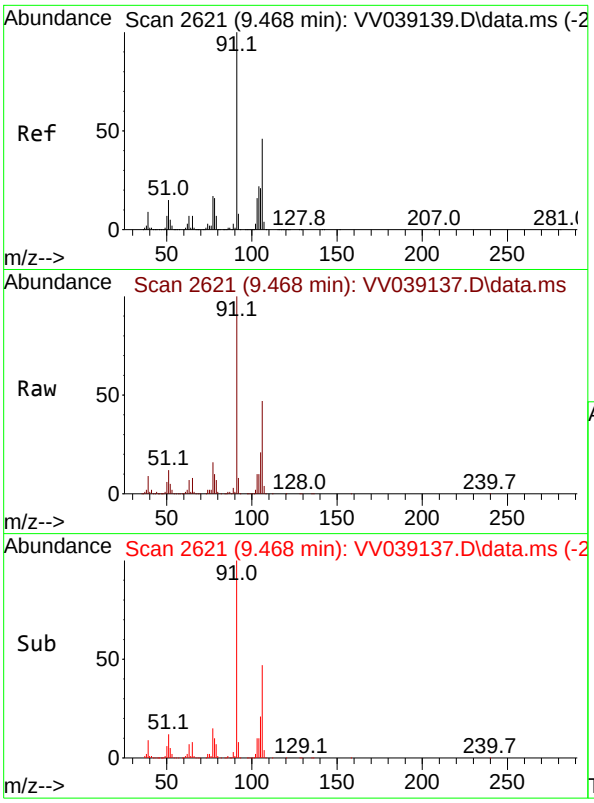


#68
m/p-Xylenes
Concen: 20.155 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:106 Resp: 270452

Ion	Ratio	Lower	Upper
106	100		
91	202.1	162.5	243.7



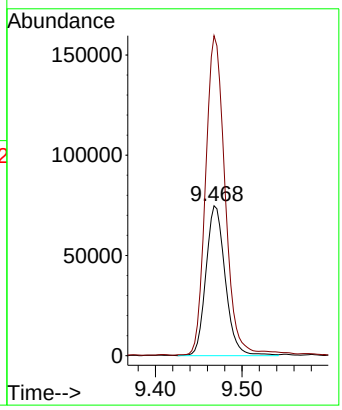


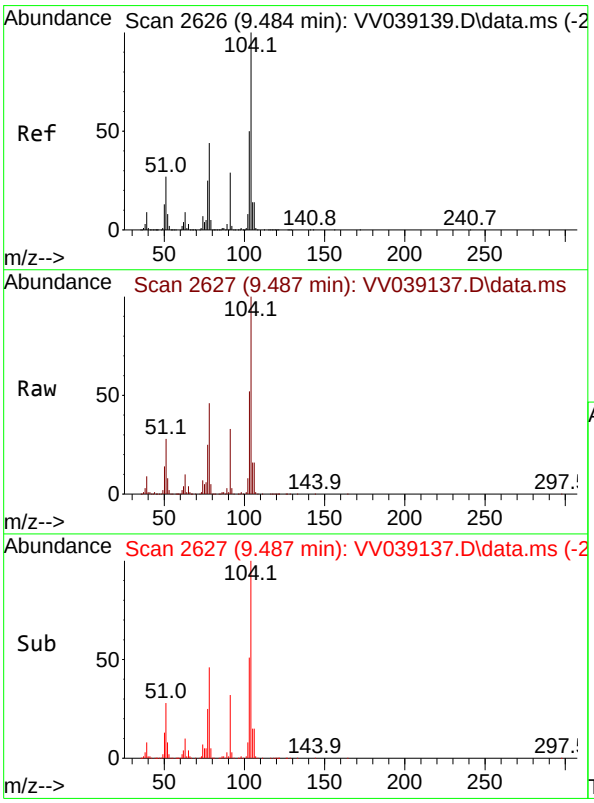
#69
o-Xylene
Concen: 9.756 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 115922

Ion	Ratio	Lower	Upper
106	100		
91	212.5	109.1	327.3

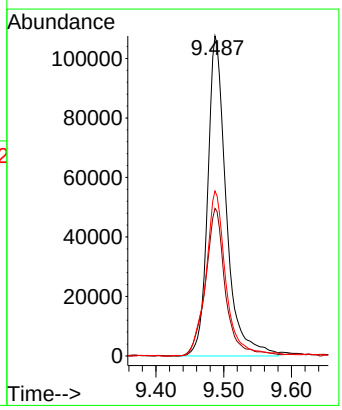


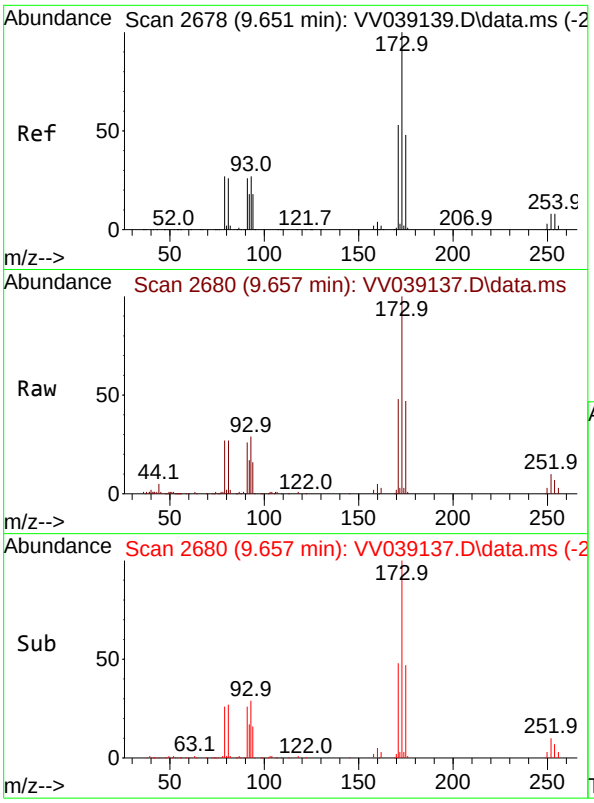


#70
Styrene
Concen: 9.382 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:104 Resp: 204368

Ion	Ratio	Lower	Upper
104	100		
78	49.9	39.8	59.6
103	54.8	43.4	65.2



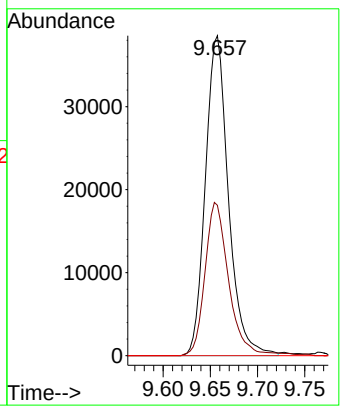


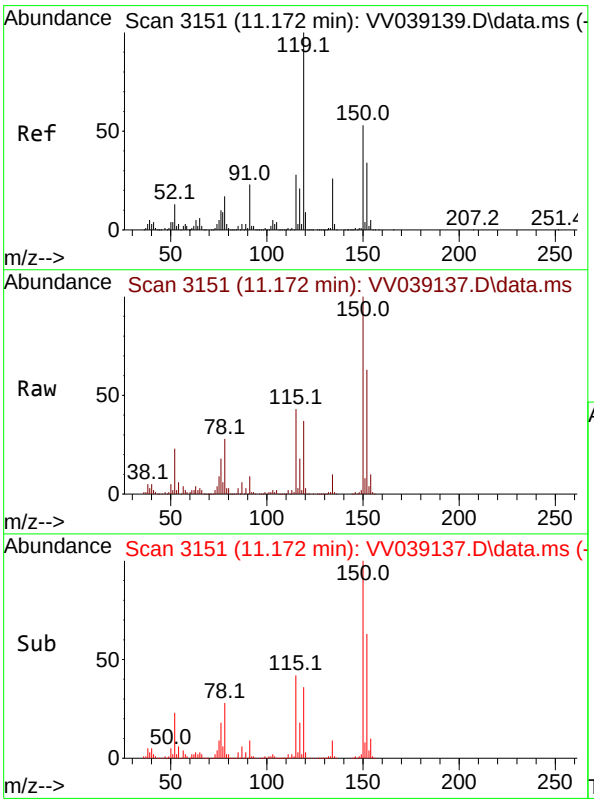
#71
Bromoform
Concen: 10.074 ug/l
RT: 9.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 65302

Ion	Ratio	Lower	Upper
173	100		
175	49.4	23.9	71.7
254	0.0	0.1	0.1#

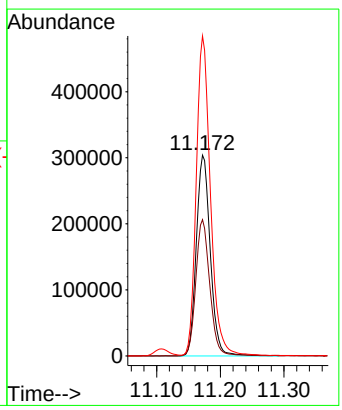


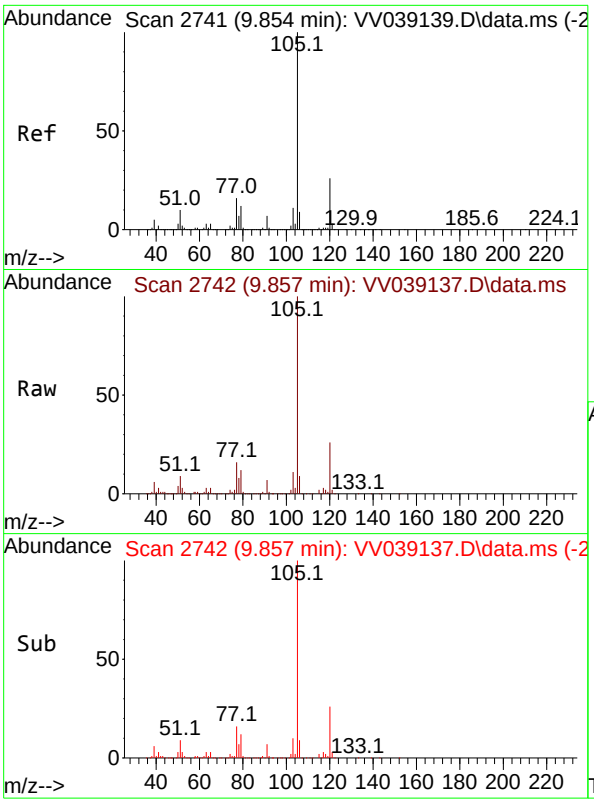


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:152 Resp: 463438

Ion	Ratio	Lower	Upper
152	100		
115	67.6	44.8	134.4
150	161.2	0.0	353.8



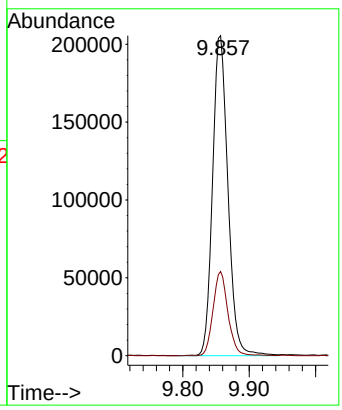


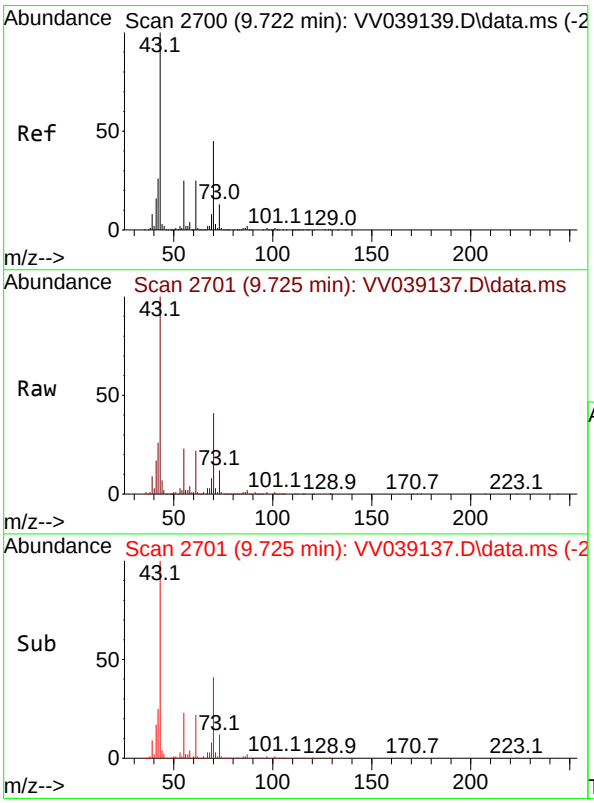
#73
Isopropylbenzene
Concen: 9.827 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 330305

Ion	Ratio	Lower	Upper
105	100		
120	25.5	13.1	39.1

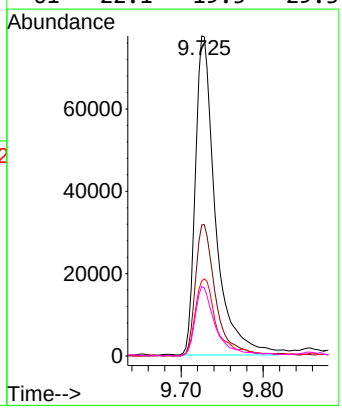


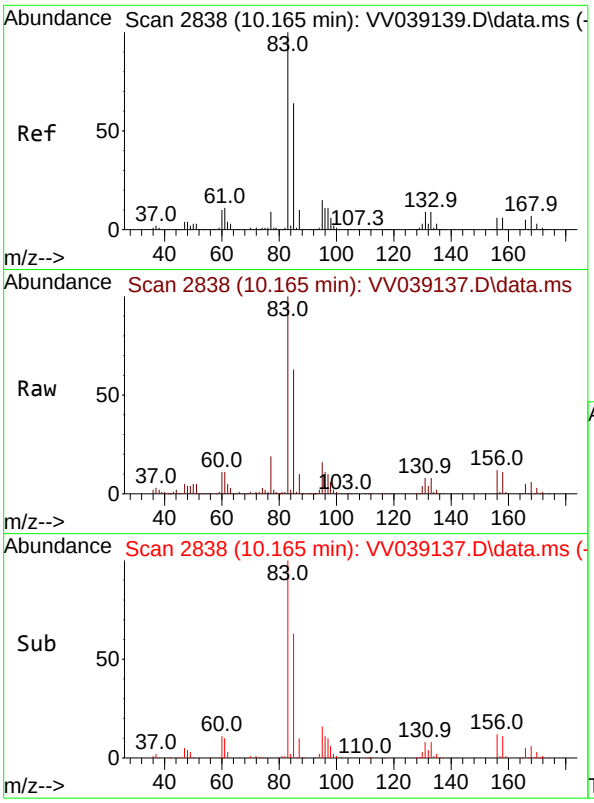


#74
N-amyl acetate
Concen: 9.853 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 132108

Ion	Ratio	Lower	Upper
43	100		
70	41.7	35.4	53.0
55	24.3	20.6	30.8
61	22.1	19.5	29.3



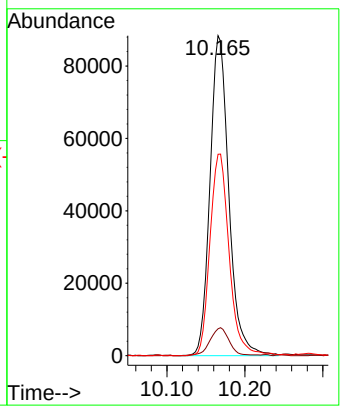


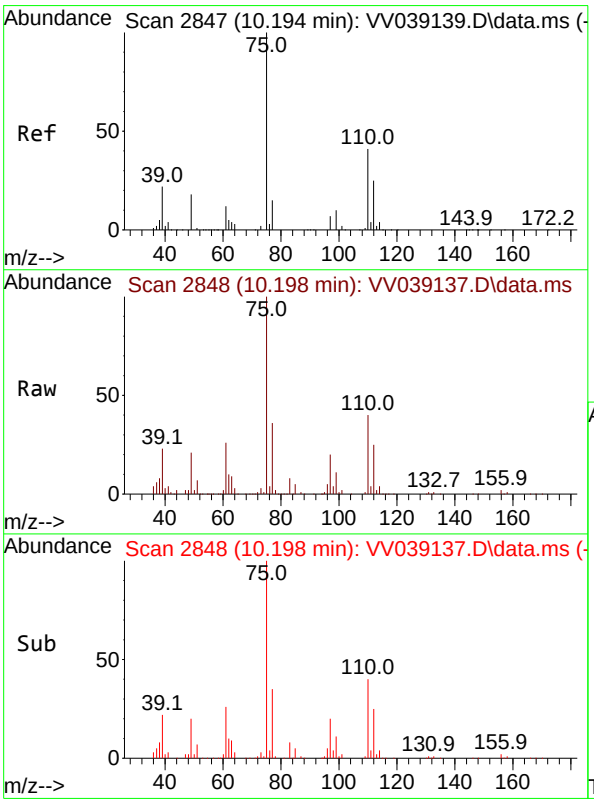
#75
1,1,2,2-Tetrachloroethane
Concen: 10.067 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 148267

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.7
85	64.4	31.9	95.9

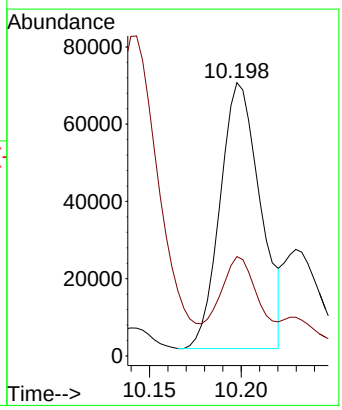


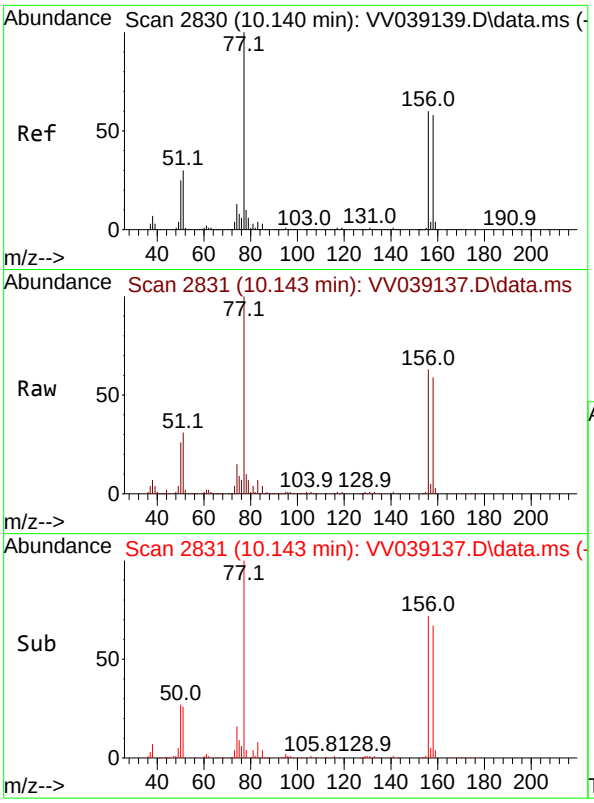


#76
1,2,3-Trichloropropane
Concen: 9.977 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 105275

Ion	Ratio	Lower	Upper
75	100		
77	21.9	11.3	33.8



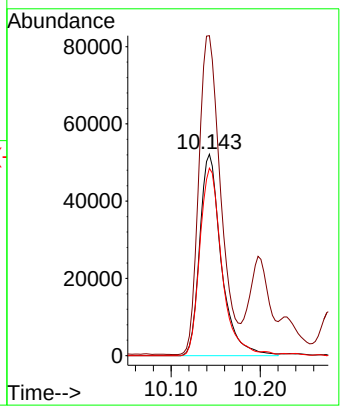


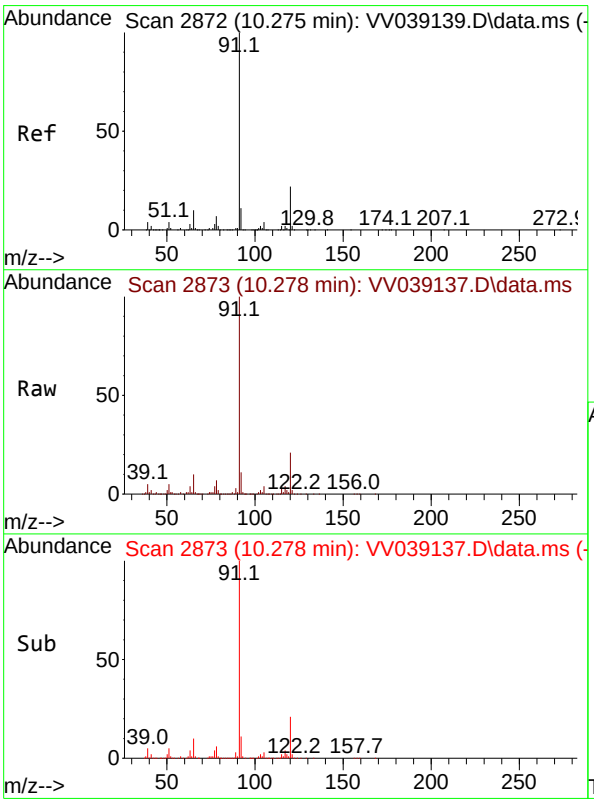
#77
Bromobenzene
Concen: 10.071 ug/l
RT: 10.143 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 87828

Ion	Ratio	Lower	Upper
156	100		
77	160.3	83.4	250.1
158	94.3	48.8	146.4

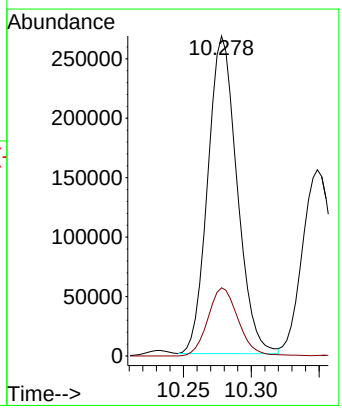


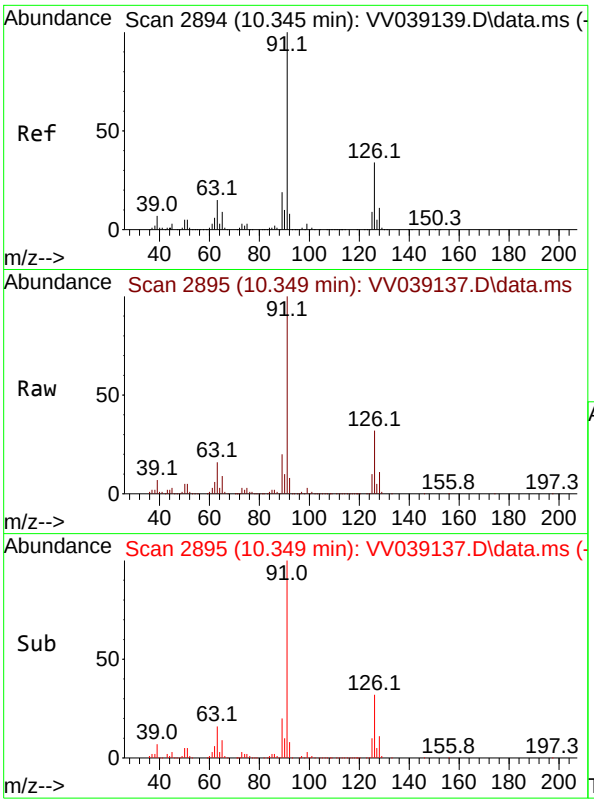


#78
n-propylbenzene
Concen: 9.804 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 91 Resp: 401316

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3



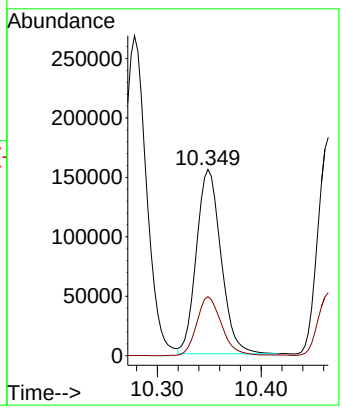


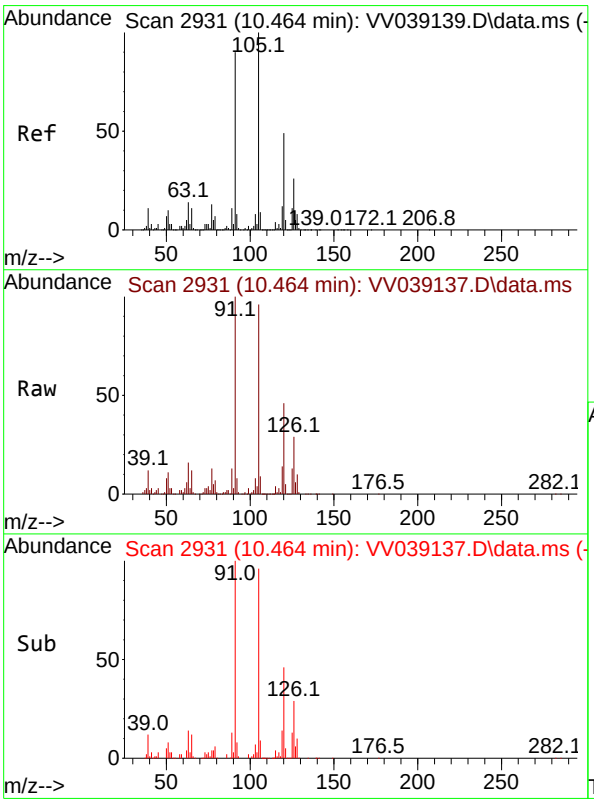
#79
2-Chlorotoluene
Concen: 10.413 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 255053

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.7	50.0

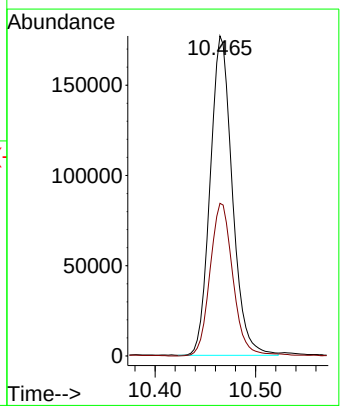


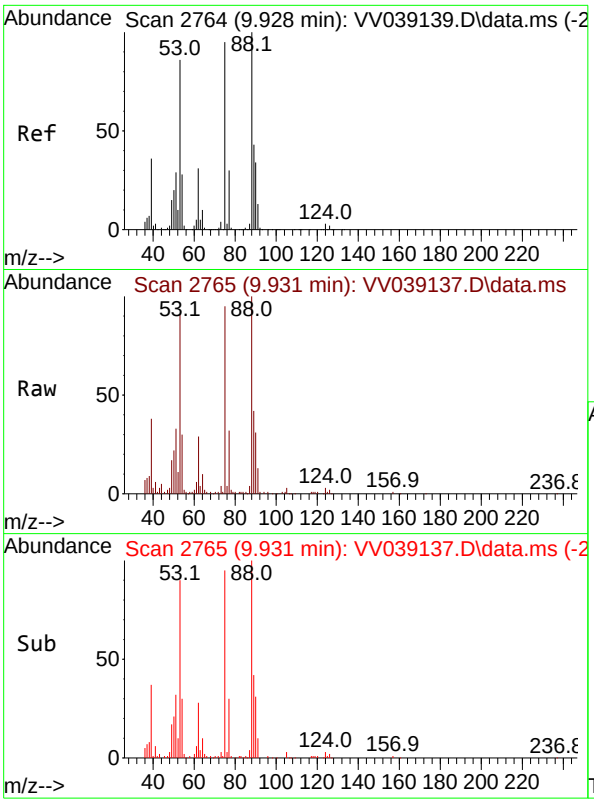


#80
1,3,5-Trimethylbenzene
Concen: 9.699 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:105 Resp: 270977

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.3	72.8



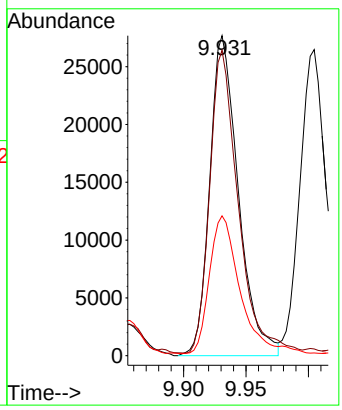


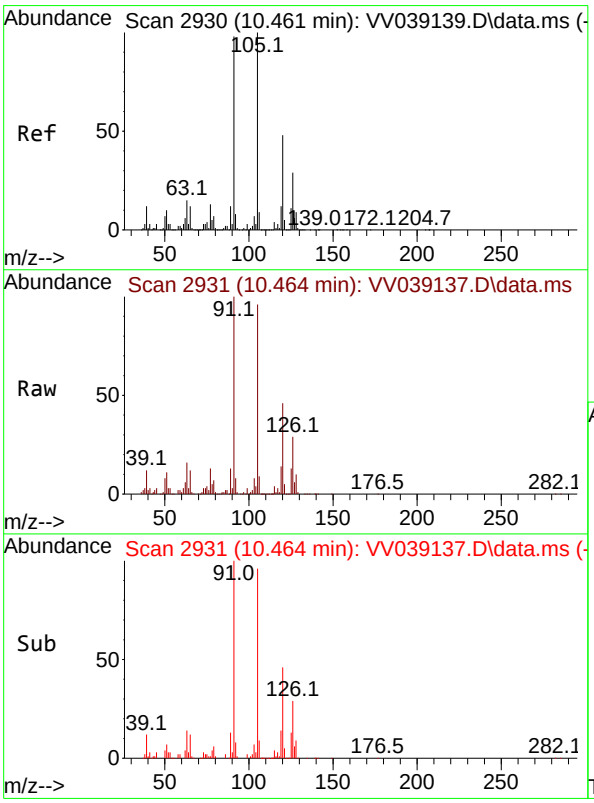
#81
trans-1,4-Dichloro-2-butene
Concen: 10.082 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 44314

Ion	Ratio	Lower	Upper
75	100		
53	94.1	72.5	108.7
89	45.9	37.2	55.8

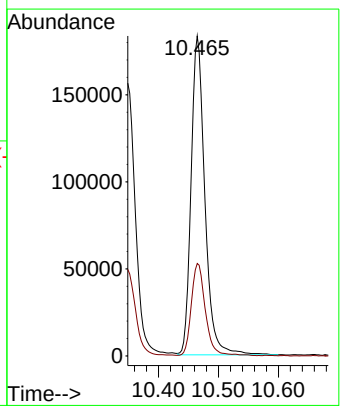


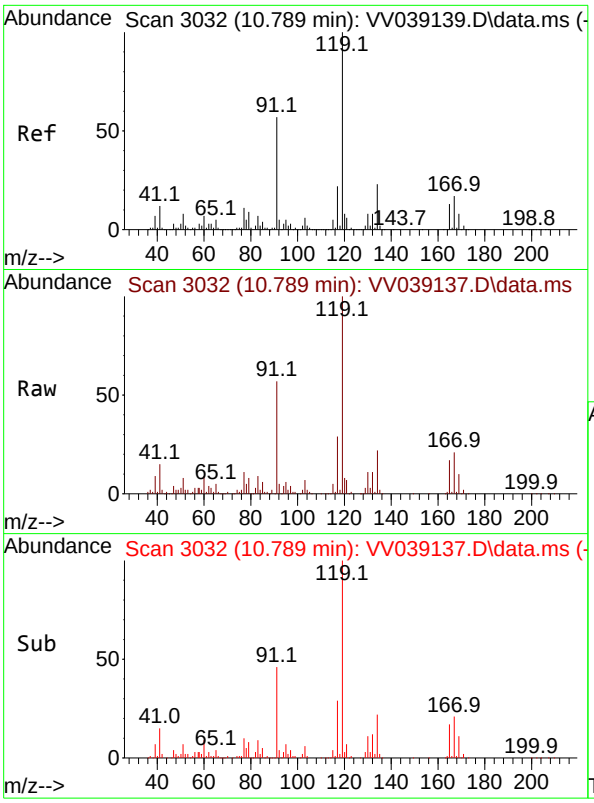


#82
4-Chlorotoluene
Concen: 10.312 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 91 Resp: 292863

Ion	Ratio	Lower	Upper
91	100		
126	29.0	14.5	43.6



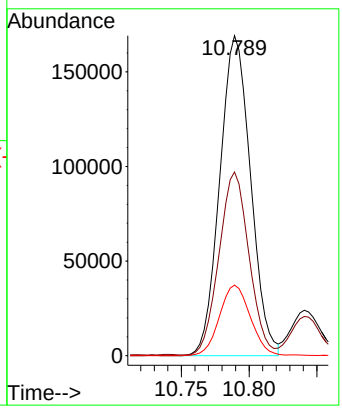


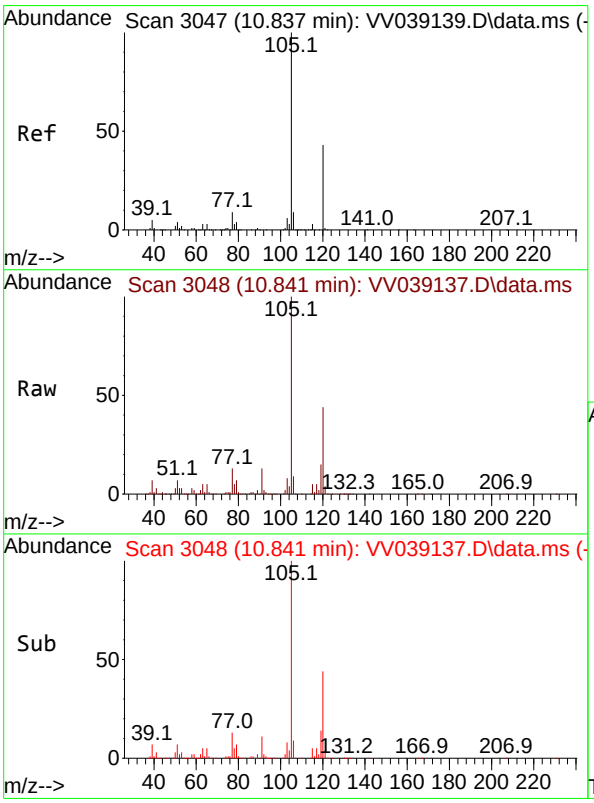
#83
tert-Butylbenzene
Concen: 9.603 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 267528

Ion	Ratio	Lower	Upper
119	100		
91	55.4	28.5	85.6
134	22.1	11.5	34.4

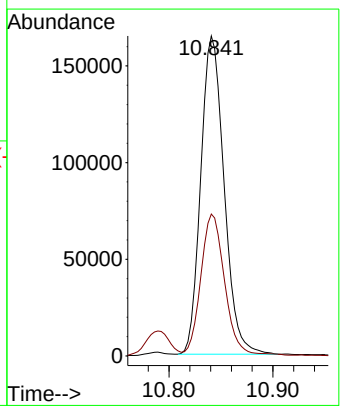


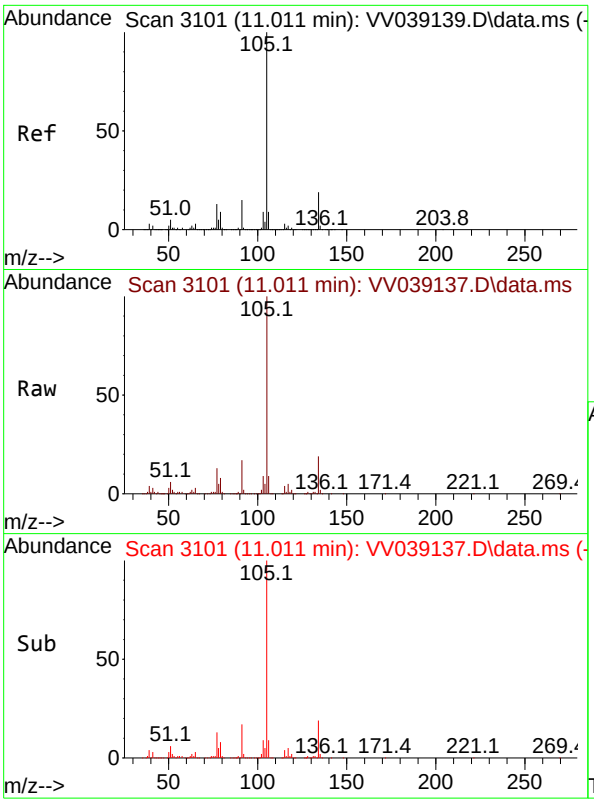


#84
1,2,4-Trimethylbenzene
Concen: 9.457 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:105 Resp: 256505

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.4	67.2



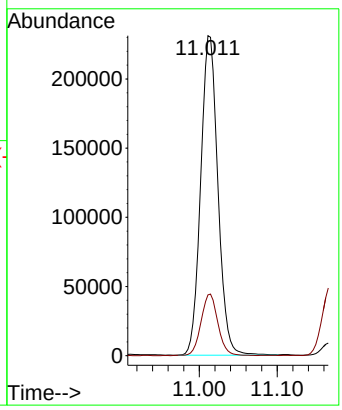


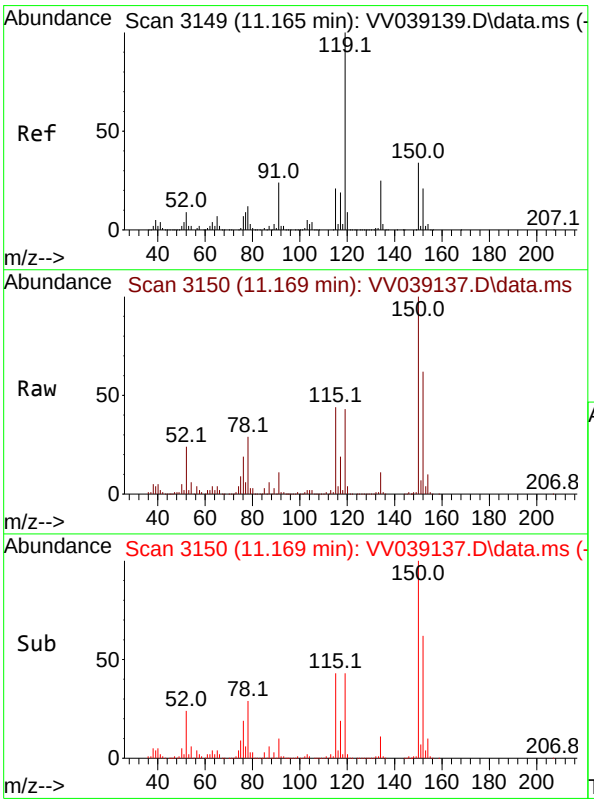
#85
sec-Butylbenzene
Concen: 9.588 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 354312

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.6	28.8

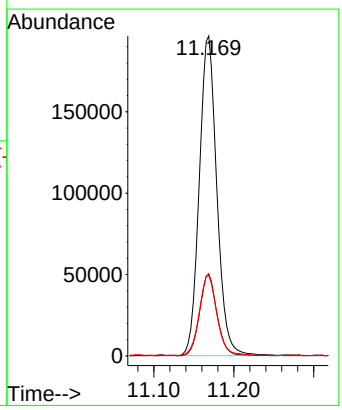


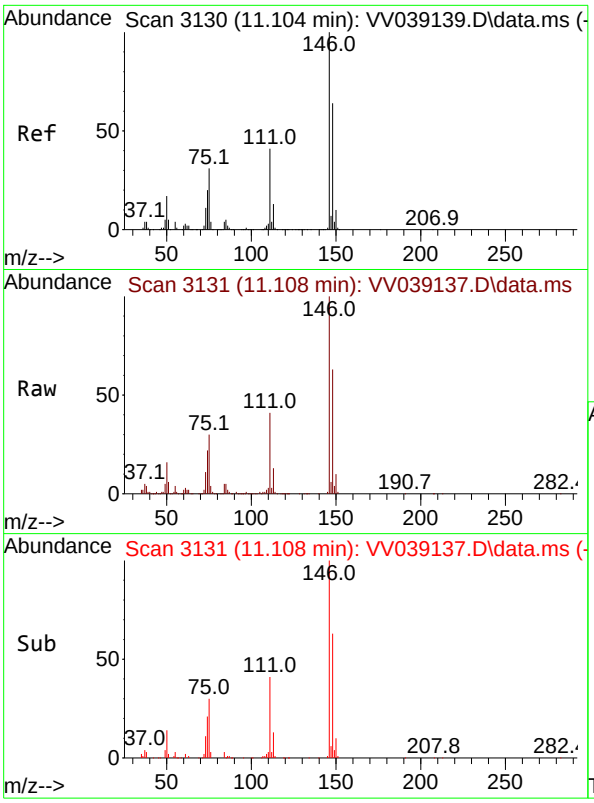


#86
p-Isopropyltoluene
Concen: 9.755 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:119 Resp: 300032

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.7	38.0
91	25.2	12.0	36.1



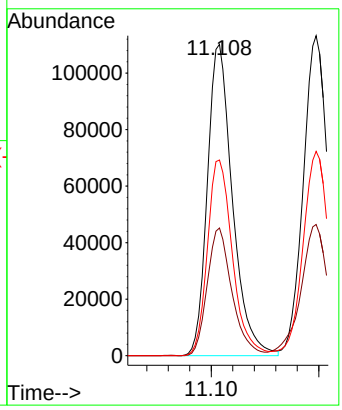


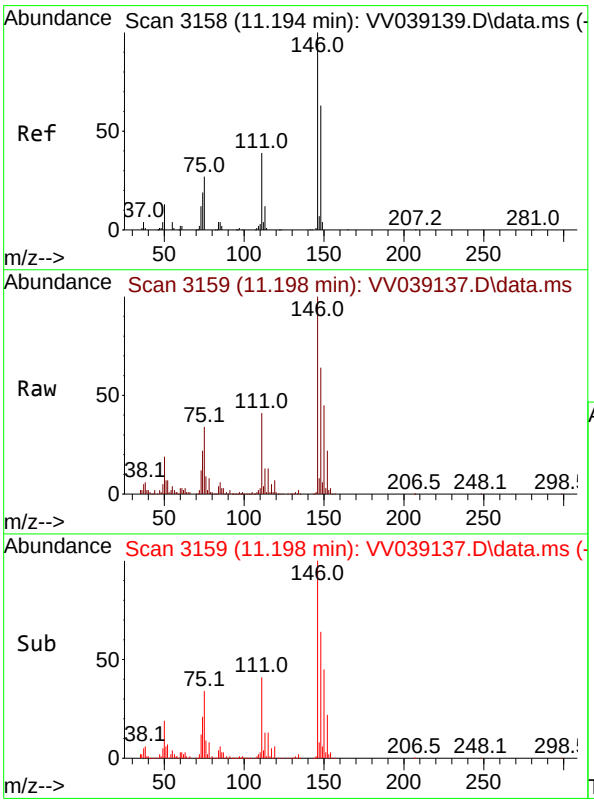
#87
1,3-Dichlorobenzene
Concen: 10.141 ug/l
RT: 11.108 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 178990

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.9	62.8
148	62.8	31.8	95.3

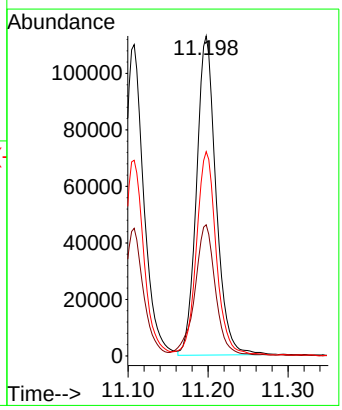


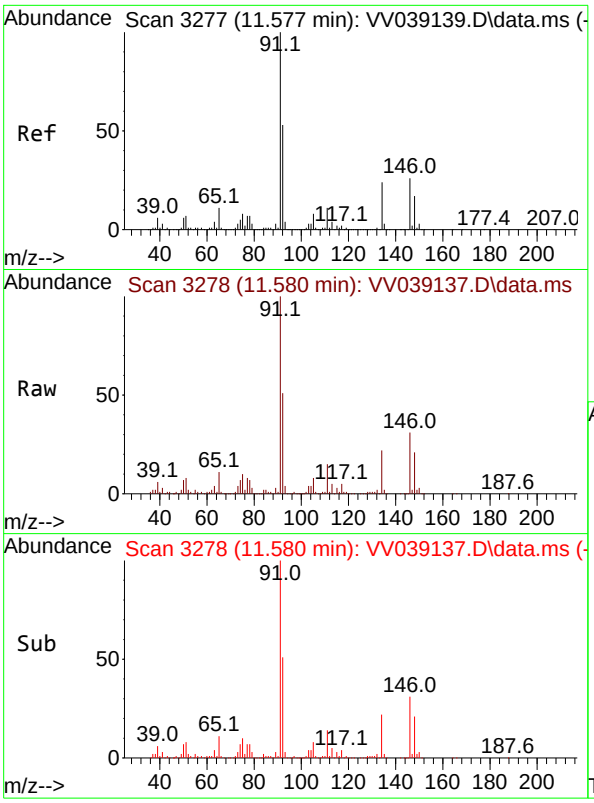


#88
1,4-Dichlorobenzene
Concen: 9.835 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:146 Resp: 191843

Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.3	60.8
148	65.1	31.4	94.2



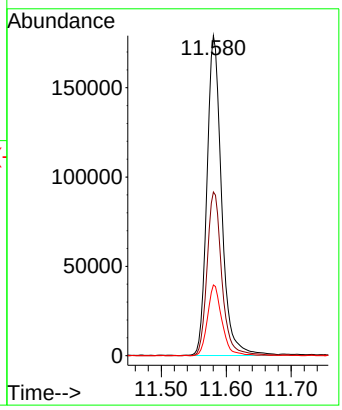


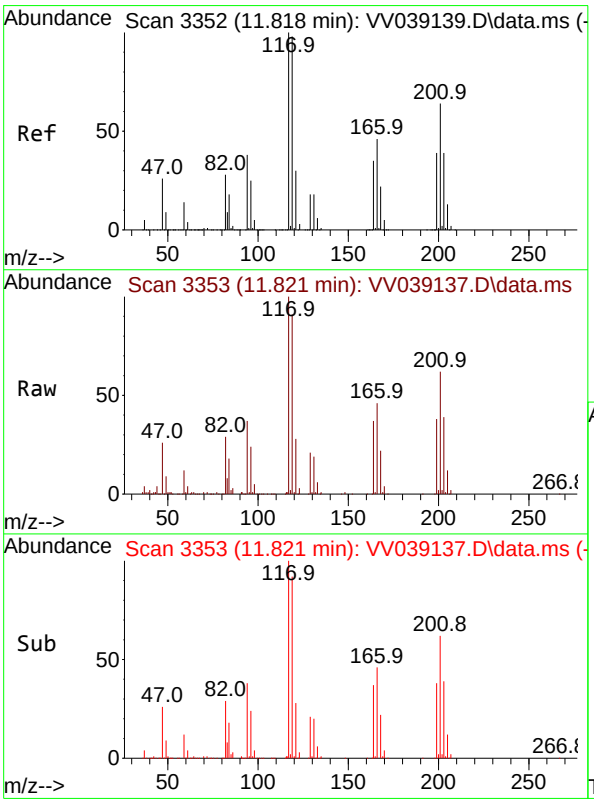
#89
n-Butylbenzene
Concen: 9.575 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 281258

Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.6	79.8
134	21.7	12.1	36.3

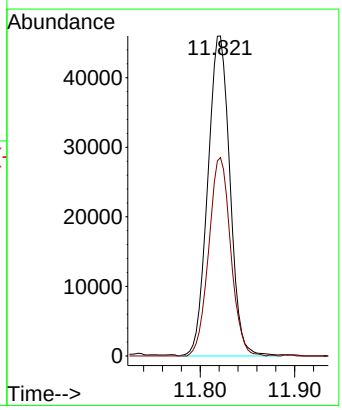


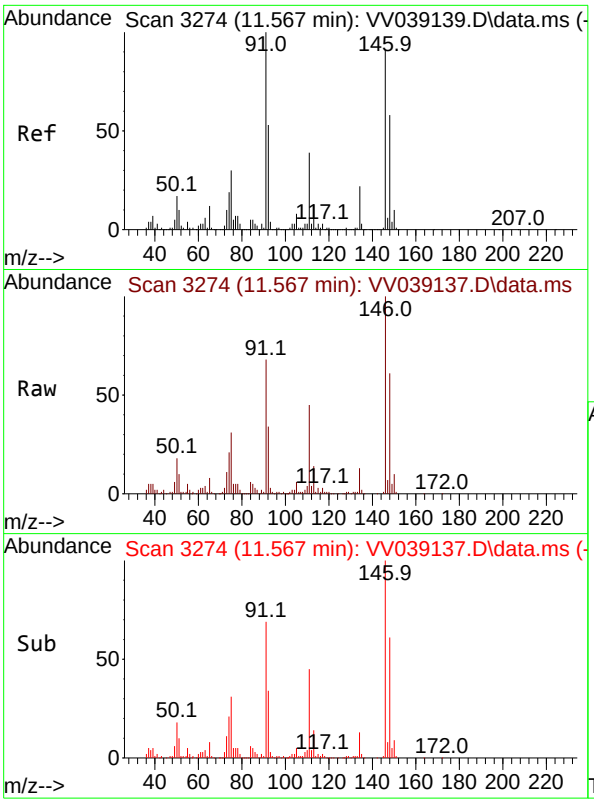


#90
Hexachloroethane
Concen: 9.891 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:117 Resp: 74910

Ion	Ratio	Lower	Upper
117	100		
201	61.4	32.3	96.8



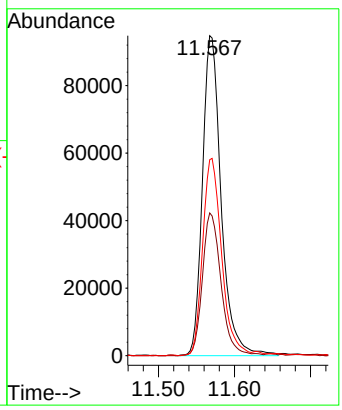


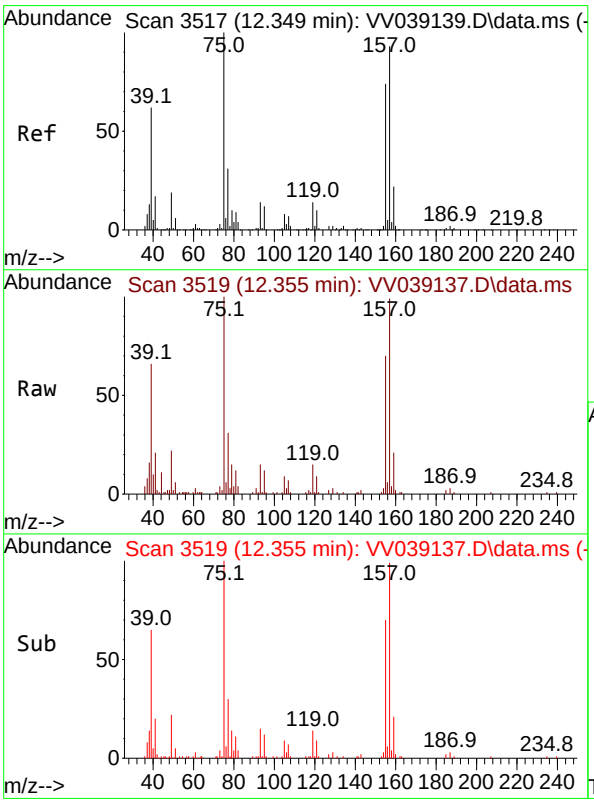
#91
1,2-Dichlorobenzene
Concen: 9.841 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 162271

Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.5	64.5
148	62.3	31.9	95.7

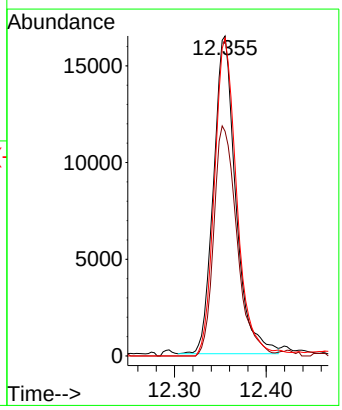


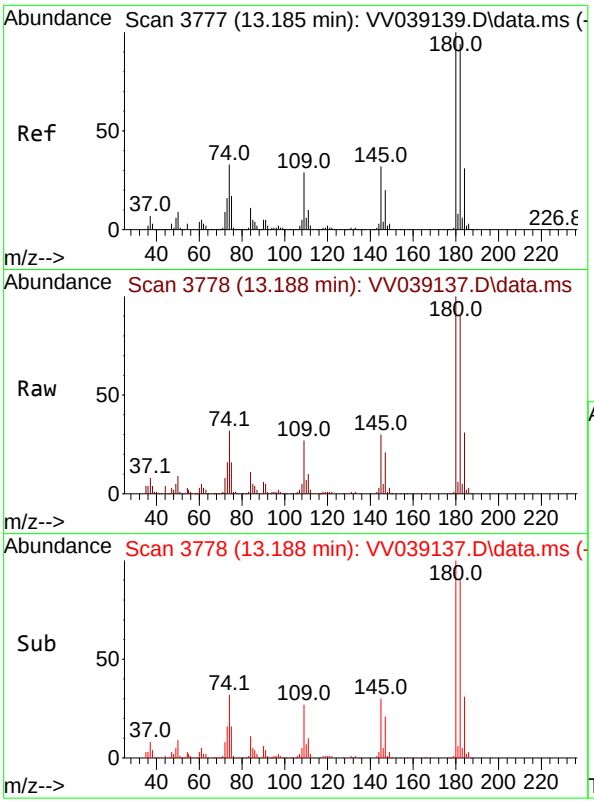


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.167 ug/l
RT: 12.355 min Scan# 3519
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 27674

Ion	Ratio	Lower	Upper
75	100		
155	75.5	38.6	115.8
157	100.7	49.5	148.3



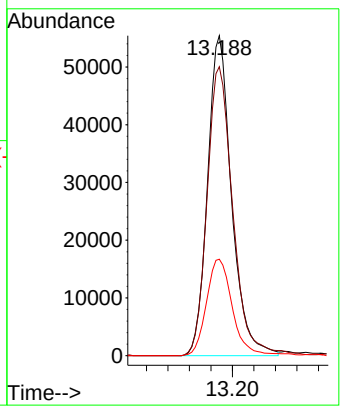


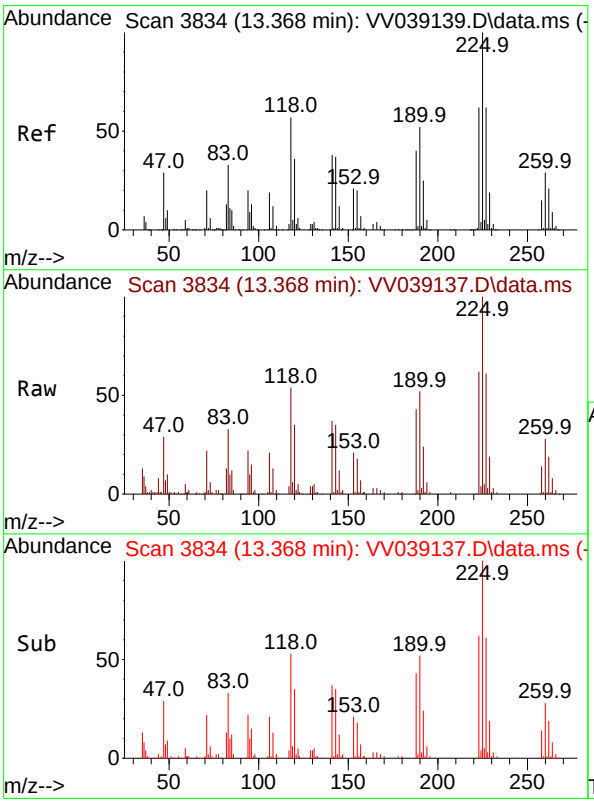
#93
1,2,4-Trichlorobenzene
Concen: 9.096 ug/l
RT: 13.188 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 85982

Ion	Ratio	Lower	Upper
180	100		
182	96.8	47.1	141.4
145	32.7	16.3	48.8

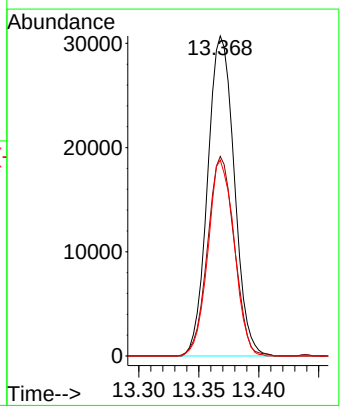


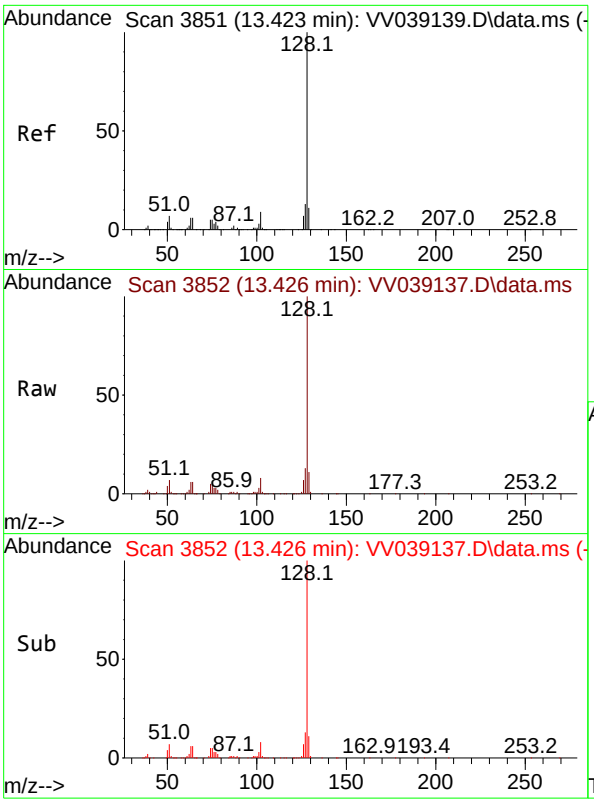


#94
Hexachlorobutadiene
Concen: 9.653 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:225 Resp: 47413

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.6	94.7
227	60.2	31.8	95.4



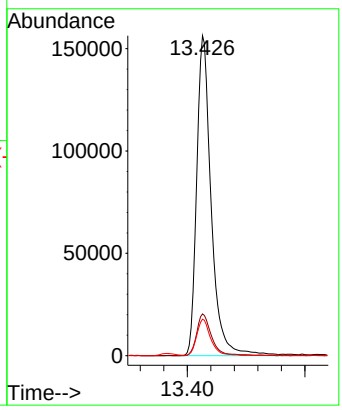


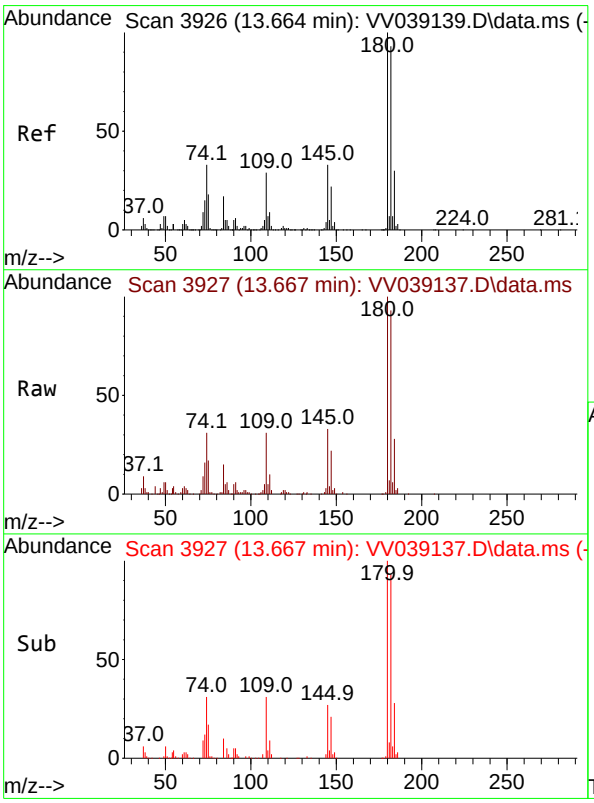
#95
Naphthalene
Concen: 8.803 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 267645

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	10.8	8.6	13.0

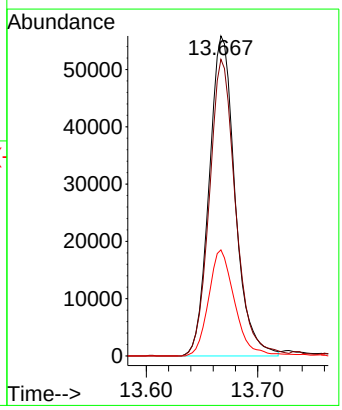




#96
1,2,3-Trichlorobenzene
Concen: 9.334 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:180 Resp: 90238

Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.9	140.8
145	33.7	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	545775	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	880963	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	860340	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	509460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.947	65	144689	18.317	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 36.640%#			
35) Dibromofluoromethane	4.503	113	134662	19.014	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 38.020%#			
50) Toluene-d8	7.236	98	384827	18.501	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 37.000%#			
62) 4-Bromofluorobenzene	10.002	95	163597	19.105	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 38.220%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	165175	19.118	ug/l	96
3) Chloromethane	1.230	50	177694	19.159	ug/l	99
4) Vinyl Chloride	1.298	62	186887	18.822	ug/l	99
5) Bromomethane	1.500	94	119578	19.104	ug/l	98
6) Chloroethane	1.561	64	124021	19.935	ug/l	99
7) Trichlorofluoromethane	1.729	101	273532	19.027	ug/l	100
8) Diethyl Ether	1.921	74	100661	18.862	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.085	101	159719	18.673	ug/l	99
10) Methyl Iodide	2.198	142	161932	19.880	ug/l	99
11) Tert butyl alcohol	2.568	59	171137	102.509	ug/l	98
12) 1,1-Dichloroethene	2.085	96	157427	19.131	ug/l	97
13) Acrolein	2.011	56	29609	102.210	ug/l	97
14) Allyl chloride	2.359	41	280200	19.062	ug/l	99
15) Acrylonitrile	2.674	53	504022	94.179	ug/l	99
16) Acetone	2.121	43	499669	95.756	ug/l	99
17) Carbon Disulfide	2.253	76	476229	18.923	ug/l	100
18) Methyl Acetate	2.381	43	226208	19.328	ug/l	98
19) Methyl tert-butyl Ether	2.712	73	498918	19.027	ug/l	99
20) Methylene Chloride	2.458	84	185050	20.143	ug/l	97
21) trans-1,2-Dichloroethene	2.703	96	164898	18.823	ug/l	97
22) Diisopropyl ether	3.217	45	552331	19.640	ug/l	83
23) Vinyl Acetate	3.191	43	2445787	99.414	ug/l	100
24) 1,1-Dichloroethane	3.118	63	320146	18.615	ug/l	99
25) 2-Butanone	3.870	43	637413	102.519	ug/l	100
26) 2,2-Dichloropropane	3.812	77	278362	18.326	ug/l	98
27) cis-1,2-Dichloroethene	3.822	96	183867	19.031	ug/l	98
28) Bromochloromethane	4.146	49	164406	21.654	ug/l	99
29) Tetrahydrofuran	4.240	42	405777	102.491	ug/l	99
30) Chloroform	4.281	83	342700	19.083	ug/l	99
31) Cyclohexane	4.587	56	266753	18.934	ug/l	98
32) 1,1,1-Trichloroethane	4.516	97	288341	18.546	ug/l	99
36) 1,1-Dichloropropene	4.748	75	212835	19.734	ug/l	99
37) Ethyl Acetate	3.979	43	260591	19.696	ug/l	97
38) Carbon Tetrachloride	4.735	117	250103	19.252	ug/l	98
39) Methylcyclohexane	6.047	83	253693	19.619	ug/l	95
40) Benzene	5.011	78	697141	19.994	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.169	41	102755	18.721 ug/l	95
42) 1,2-Dichloroethane	5.043	62	244487	20.012 ug/l	99
43) Isopropyl Acetate	5.195	43	362512	19.889 ug/l	98
44) Trichloroethene	5.831	130	160692	19.972 ug/l	96
45) 1,2-Dichloropropane	6.092	63	182757	21.087 ug/l	96
46) Dibromomethane	6.227	93	129319	19.495 ug/l	98
47) Bromodichloromethane	6.429	83	269262	19.635 ug/l	97
48) Methyl methacrylate	6.301	41	158251	18.977 ug/l	99
49) 1,4-Dioxane	6.294	88	47860	365.172 ug/l #	85
51) 4-Methyl-2-Pentanone	7.150	43	1296796	111.268 ug/l	98
52) Toluene	7.310	92	422367	20.892 ug/l	100
53) t-1,3-Dichloropropene	7.577	75	245181	20.516 ug/l	98
54) cis-1,3-Dichloropropene	6.950	75	273906	20.761 ug/l	100
55) 1,1,2-Trichloroethane	7.760	97	176812	19.505 ug/l	98
56) Ethyl methacrylate	7.719	69	212320	19.723 ug/l	97
57) 1,3-Dichloropropane	7.934	76	291304	20.363 ug/l	100
58) 2-Chloroethyl Vinyl ether	6.815	63	536254	94.274 ug/l	99
59) 2-Hexanone	8.066	43	940265	101.225 ug/l	98
60) Dibromochloromethane	8.169	129	200793	19.440 ug/l	99
61) 1,2-Dibromoethane	8.275	107	189555	20.447 ug/l	99
64) Tetrachloroethene	7.899	164	141876	19.688 ug/l	99
65) Chlorobenzene	8.805	112	470841	19.648 ug/l	97
66) 1,1,1,2-Tetrachloroethane	8.899	131	167936	19.395 ug/l	99
67) Ethyl Benzene	8.937	91	737391	20.328 ug/l	99
68) m/p-Xylenes	9.063	106	607362	43.381 ug/l	99
69) o-Xylene	9.468	106	255212	20.587 ug/l	100
70) Styrene	9.487	104	475382	19.022 ug/l	99
71) Bromoform	9.654	173	132242	19.552 ug/l	98
73) Isopropylbenzene	9.857	105	741305	20.062 ug/l	99
74) N-amyl acetate	9.725	43	306963	20.826 ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.165	83	297741	18.390 ug/l	100
76) 1,2,3-Trichloropropane	10.198	75	213532	18.409 ug/l	99
77) Bromobenzene	10.140	156	187188	19.525 ug/l	96
78) n-propylbenzene	10.278	91	905281	20.118 ug/l	99
79) 2-Chlorotoluene	10.349	91	547836	20.346 ug/l	99
80) 1,3,5-Trimethylbenzene	10.464	105	640175	20.843 ug/l	99
81) trans-1,4-Dichloro-2-b...	9.928	75	91848	19.009 ug/l	96
82) 4-Chlorotoluene	10.461	91	655427	20.993 ug/l	99
83) tert-Butylbenzene	10.789	119	587151	19.172 ug/l	99
84) 1,2,4-Trimethylbenzene	10.841	105	631679	21.185 ug/l	100
85) sec-Butylbenzene	11.011	105	808869	19.912 ug/l	99
86) p-Isopropyltoluene	11.165	119	682814	20.196 ug/l	100
87) 1,3-Dichlorobenzene	11.104	146	374208	19.287 ug/l	99
88) 1,4-Dichlorobenzene	11.198	146	397526	18.539 ug/l	100
89) n-Butylbenzene	11.580	91	640044	19.822 ug/l	99
90) Hexachloroethane	11.818	117	150843	18.118 ug/l	99
91) 1,2-Dichlorobenzene	11.567	146	336566	18.567 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.352	75	57671	19.989 ug/l	98
93) 1,2,4-Trichlorobenzene	13.185	180	196334	18.894 ug/l	99
94) Hexachlorobutadiene	13.368	225	96610	17.893 ug/l	98
95) Naphthalene	13.426	128	634557	18.986 ug/l	99
96) 1,2,3-Trichlorobenzene	13.667	180	198308	18.659 ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 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_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
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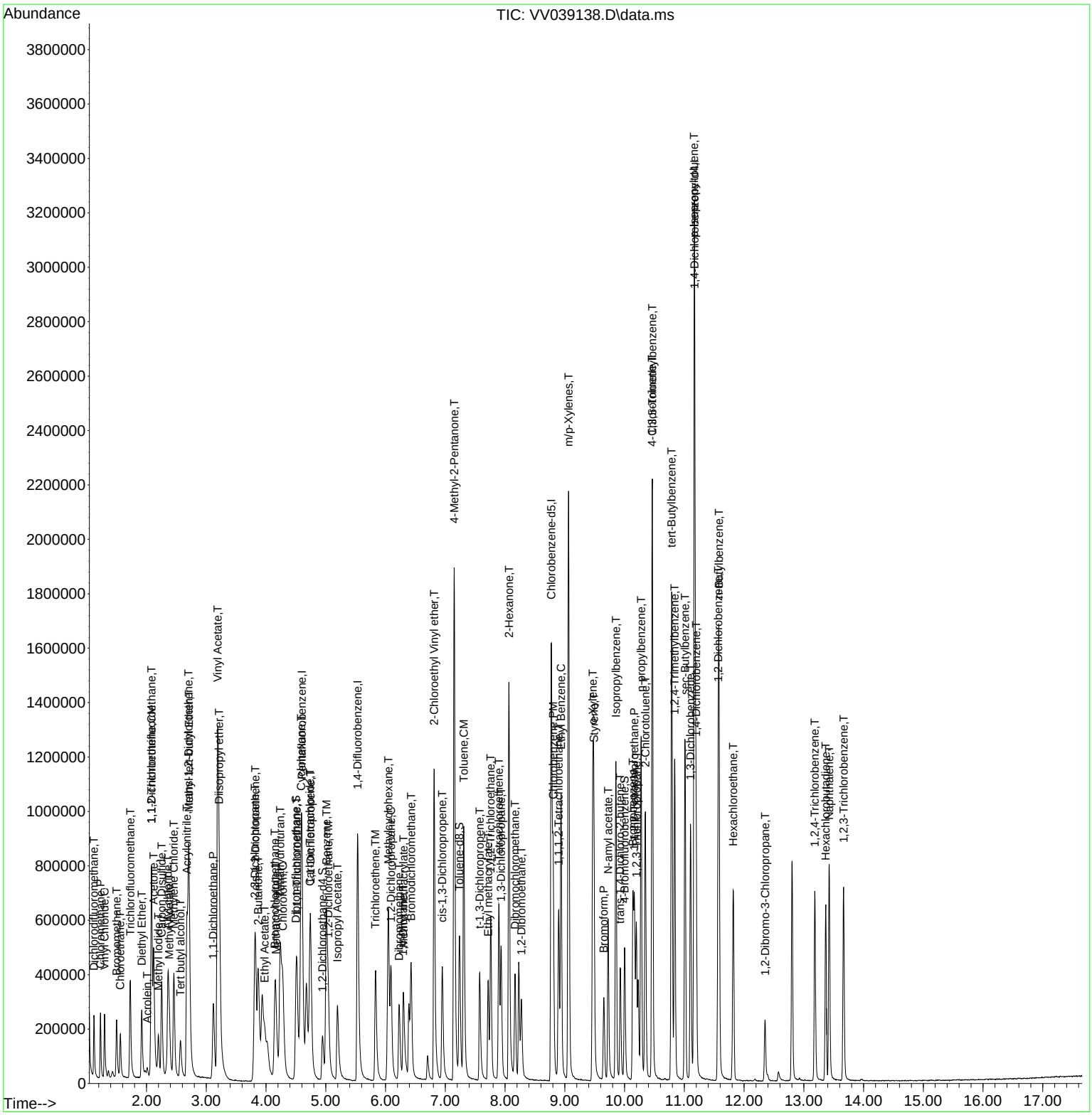
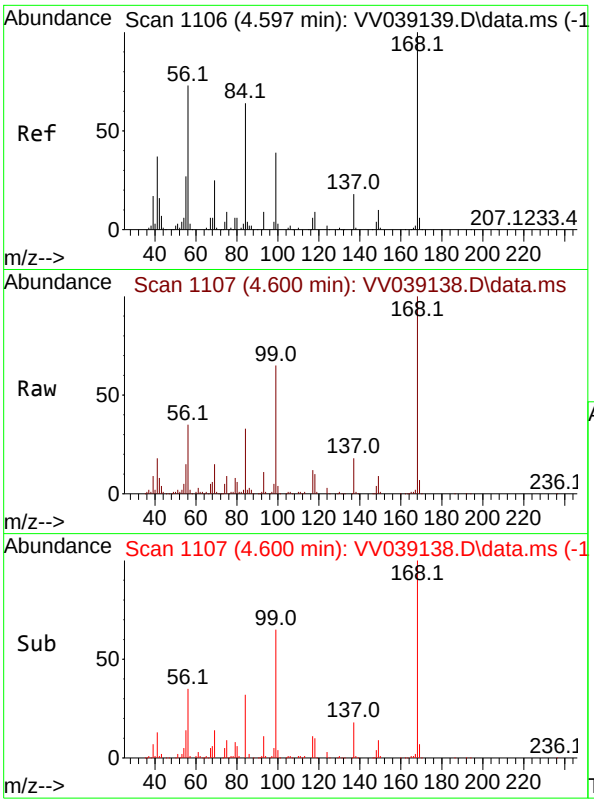
Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



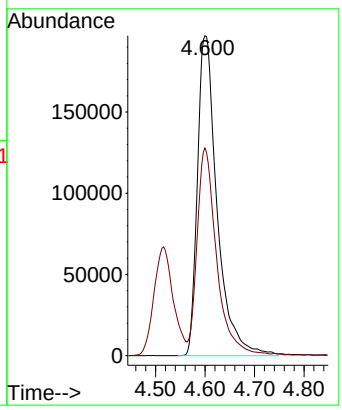


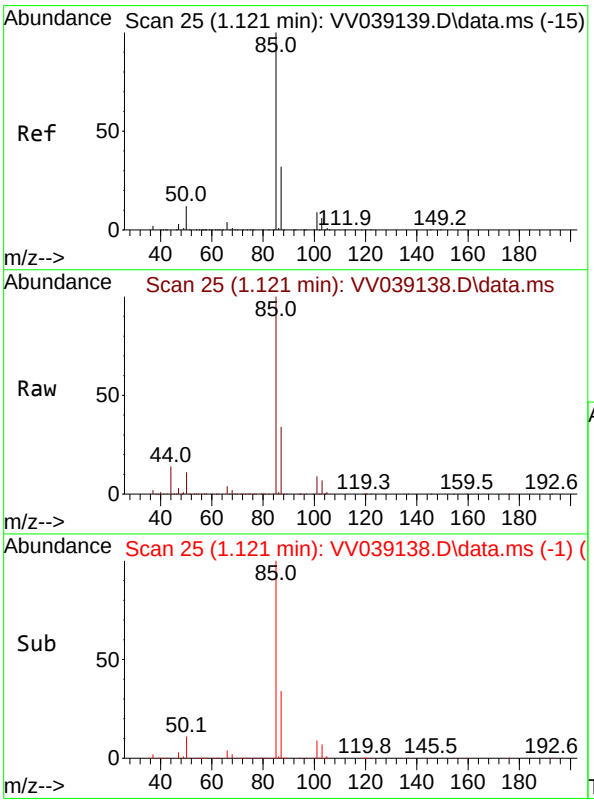
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 545775

Ion	Ratio	Lower	Upper
168	100		
99	64.3	49.6	74.4

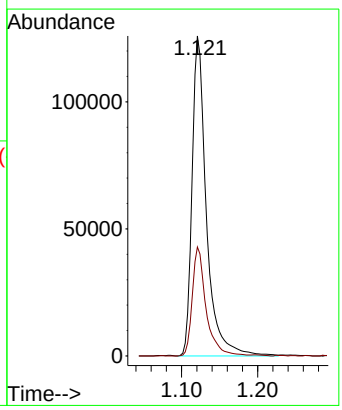


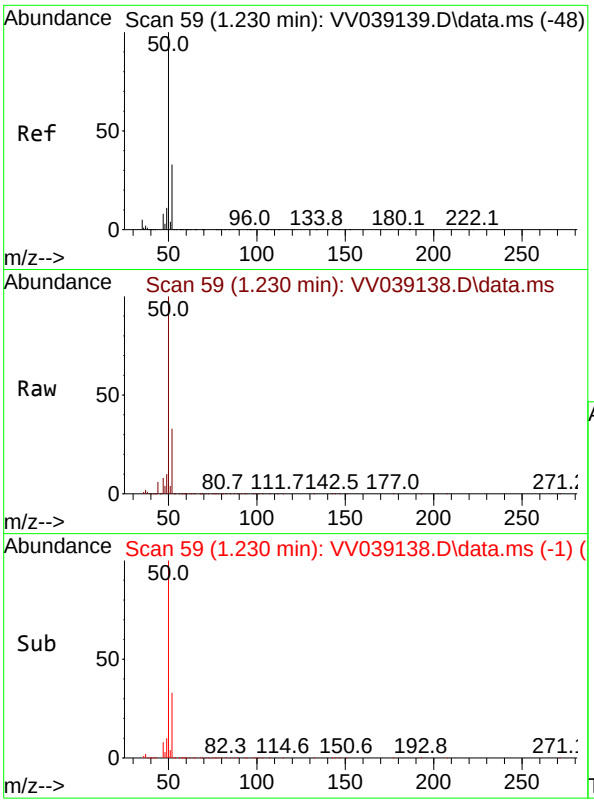


#2
Dichlorodifluoromethane
Concen: 19.118 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 85 Resp: 165175

Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.0	47.9



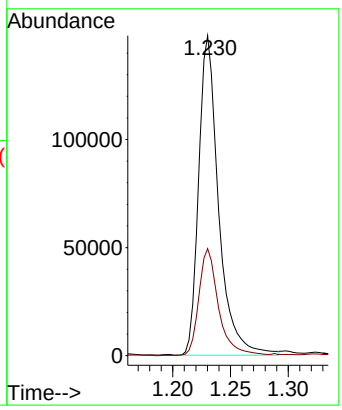


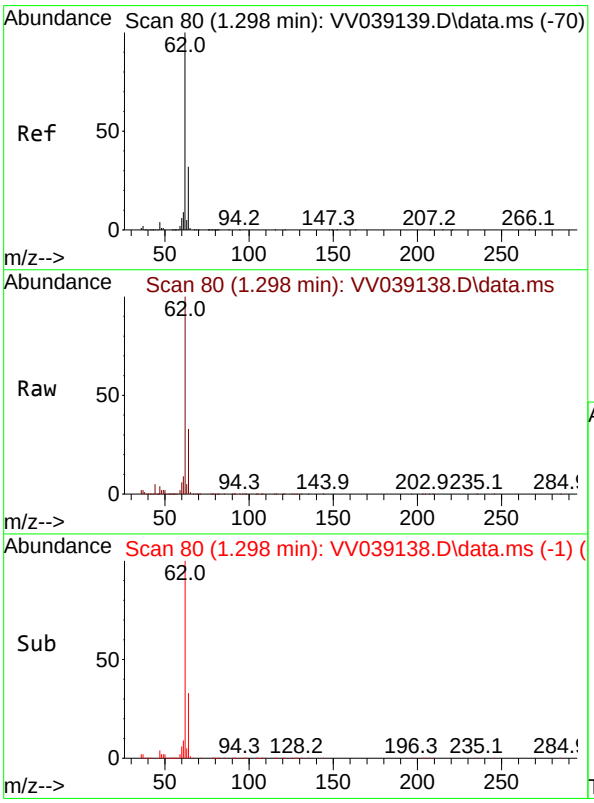
#3
Chloromethane
Concen: 19.159 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 177694

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.0	39.0

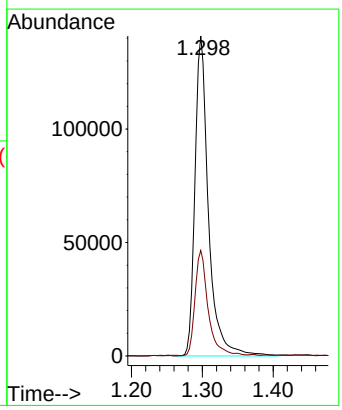


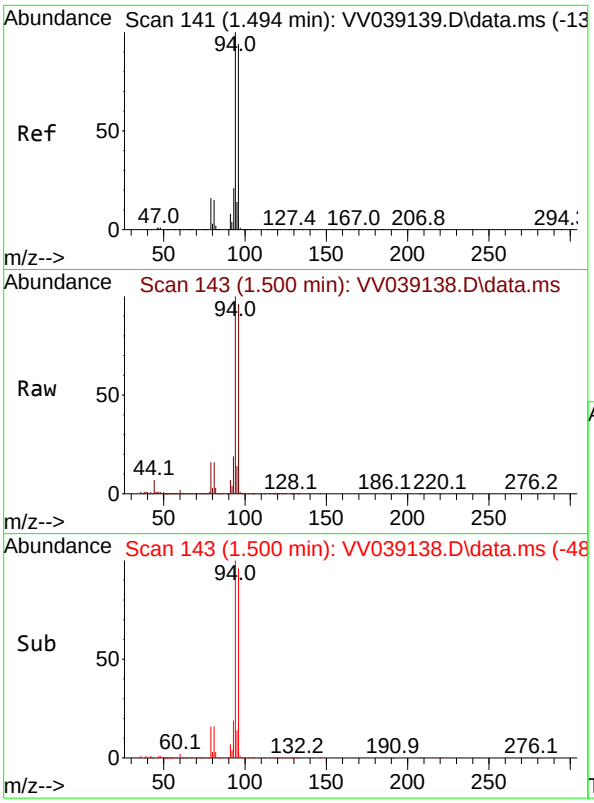


#4
Vinyl Chloride
Concen: 18.822 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 62 Resp: 186887

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.6	38.4



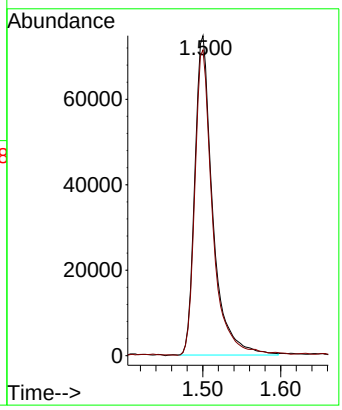


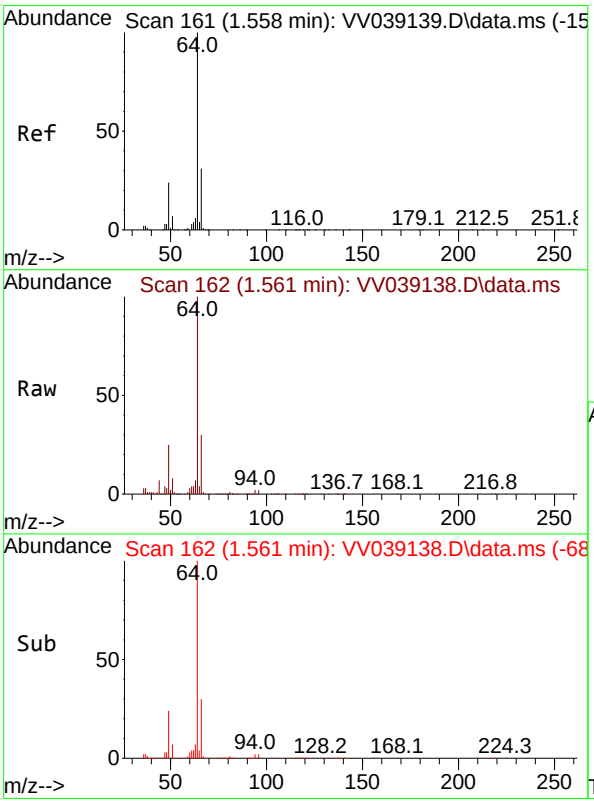
#5
Bromomethane
Concen: 19.104 ug/l
RT: 1.500 min Scan# 14
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 119578

Ion	Ratio	Lower	Upper
94	100		
96	95.6	74.9	112.3

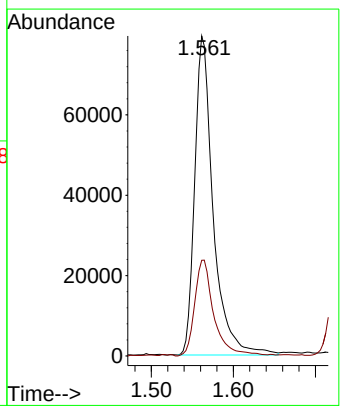


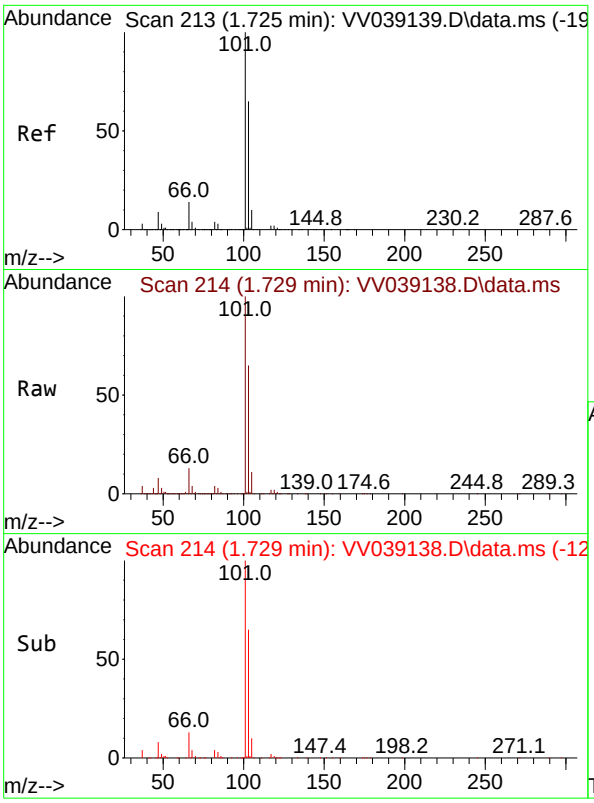


#6
Chloroethane
Concen: 19.935 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 64 Resp: 124021

Ion	Ratio	Lower	Upper
64	100		
66	30.0	24.6	36.8



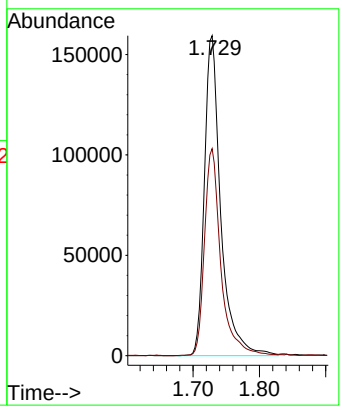


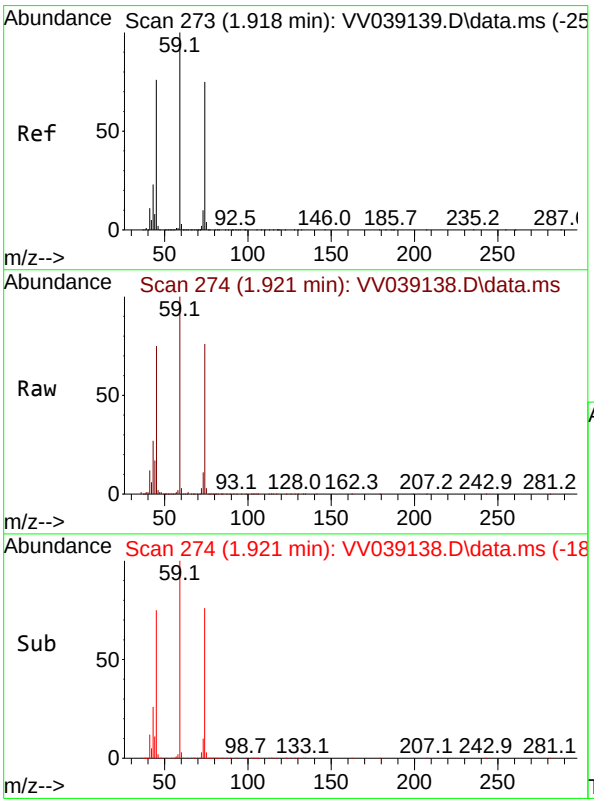
#7
Trichlorofluoromethane
Concen: 19.027 ug/l
RT: 1.729 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 273532

Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.0	78.0

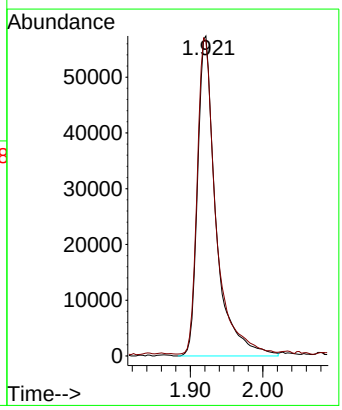


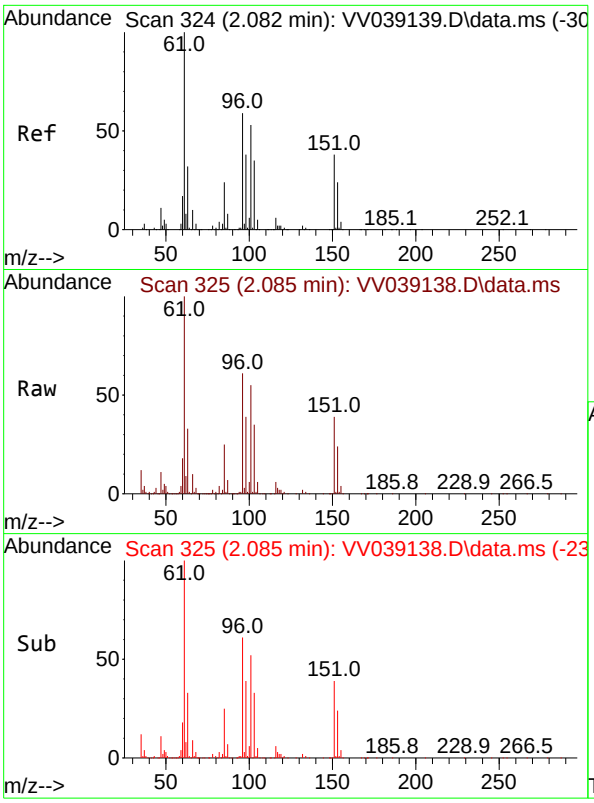


#8
Diethyl Ether
Concen: 18.862 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 74 Resp: 100661

Ion	Ratio	Lower	Upper
74	100		
45	100.4	49.6	148.8



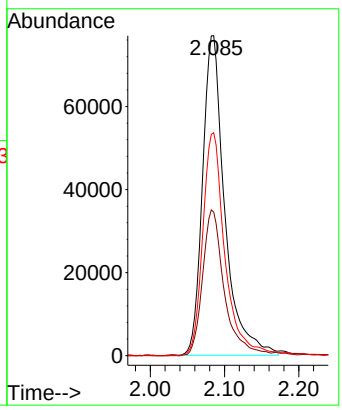


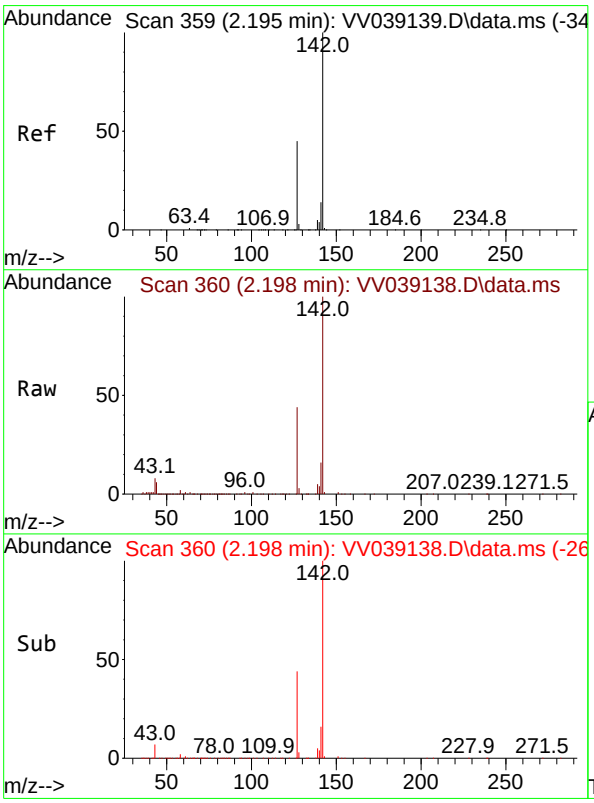
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.673 ug/l
RT: 2.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 159719

Ion	Ratio	Lower	Upper
101	100		
85	44.7	36.2	54.2
151	69.8	56.3	84.5

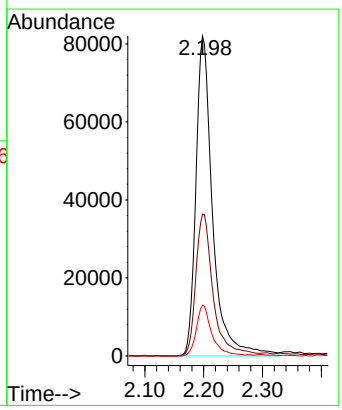


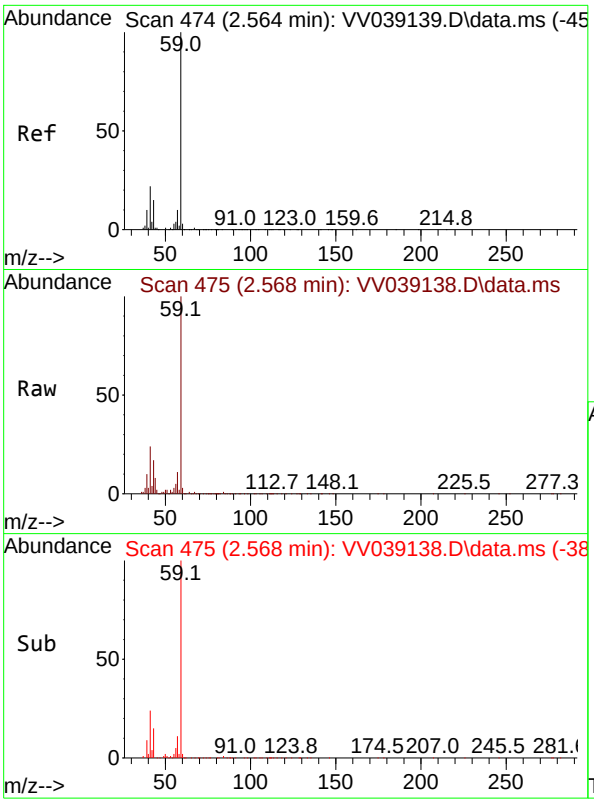


#10
Methyl Iodide
Concen: 19.880 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:142 Resp: 161932

Ion	Ratio	Lower	Upper
142	100		
127	46.1	36.3	54.5
141	14.8	11.2	16.8



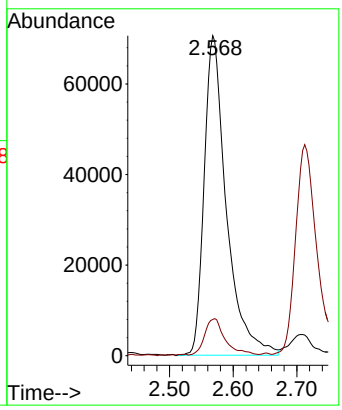


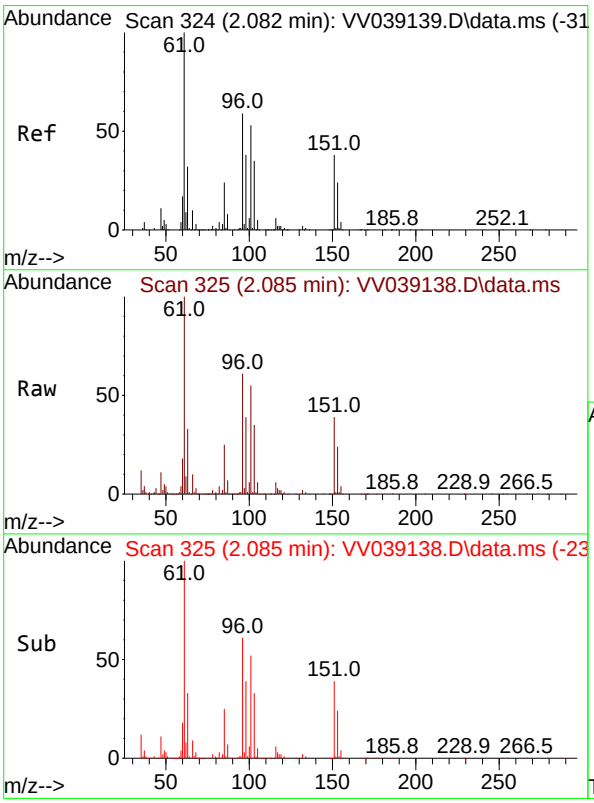
#11
Tert butyl alcohol
Concen: 102.509 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 171137

Ion	Ratio	Lower	Upper
59	100		
57	10.5	7.8	11.8

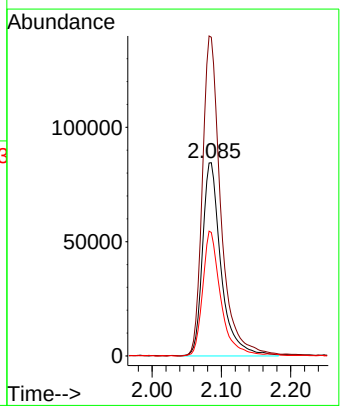


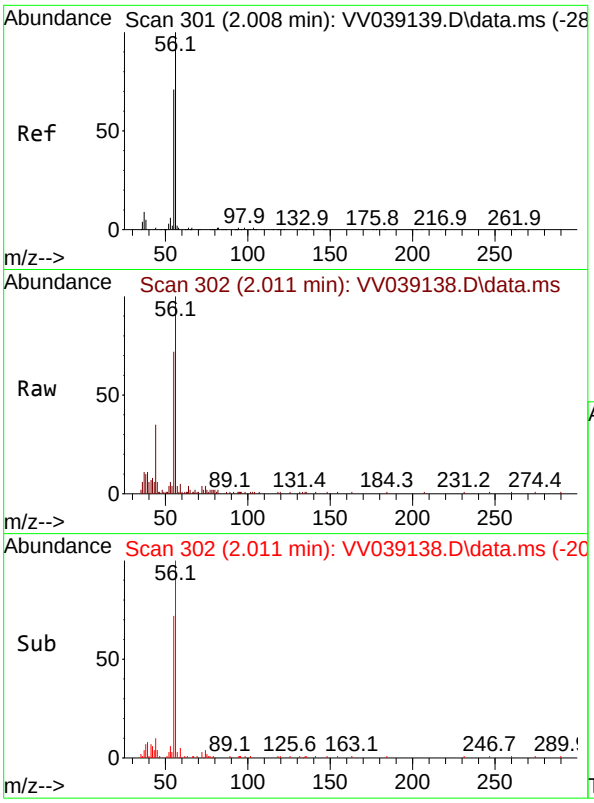


#12
1,1-Dichloroethene
Concen: 19.131 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 96 Resp: 157427

Ion	Ratio	Lower	Upper
96	100		
61	164.7	136.0	204.0
98	63.9	51.0	76.6



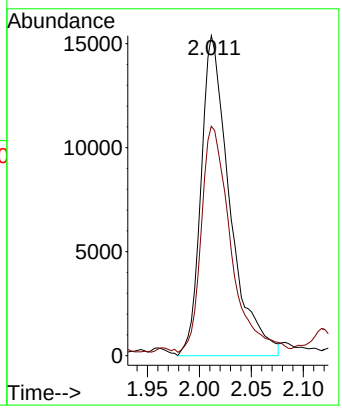


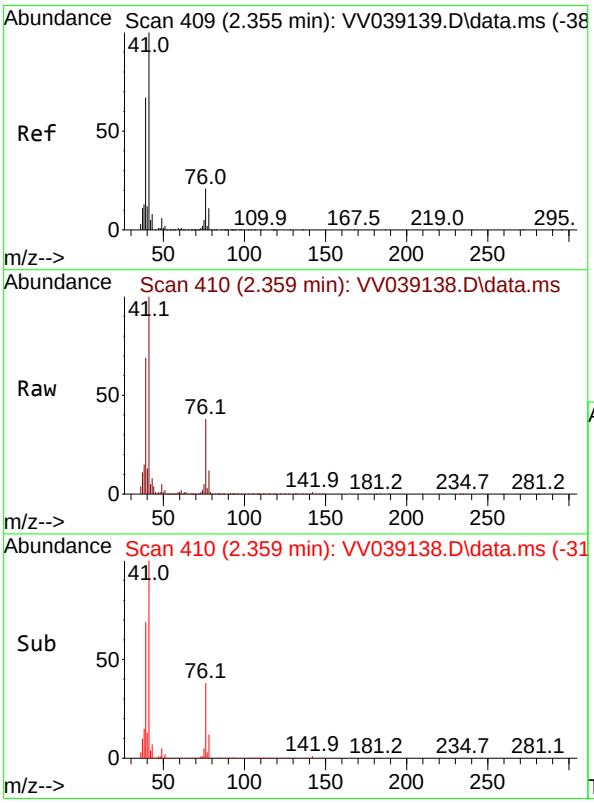
#13
Acrolein
Concen: 102.210 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 29609

Ion	Ratio	Lower	Upper
56	100		
55	72.5	56.2	84.4

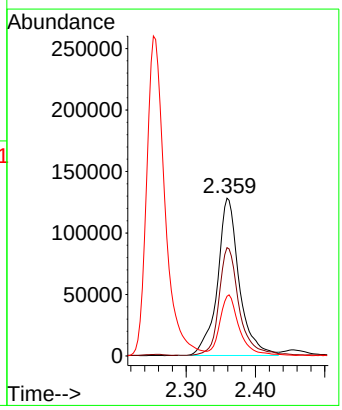


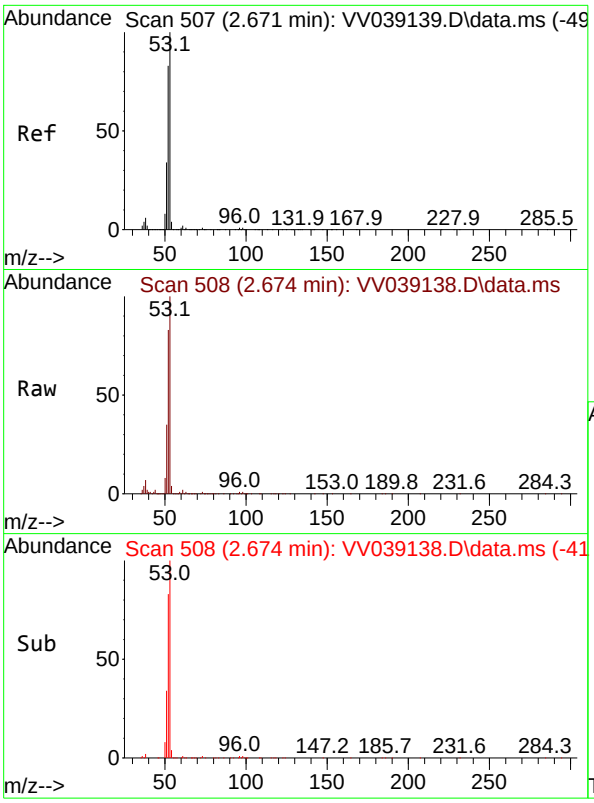


#14
Allyl chloride
Concen: 19.062 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 41 Resp: 280200

Ion	Ratio	Lower	Upper
41	100		
39	63.6	51.0	76.6
76	34.5	28.2	42.4



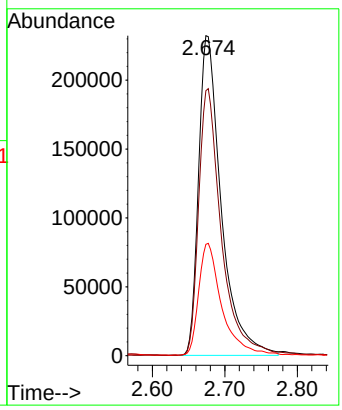


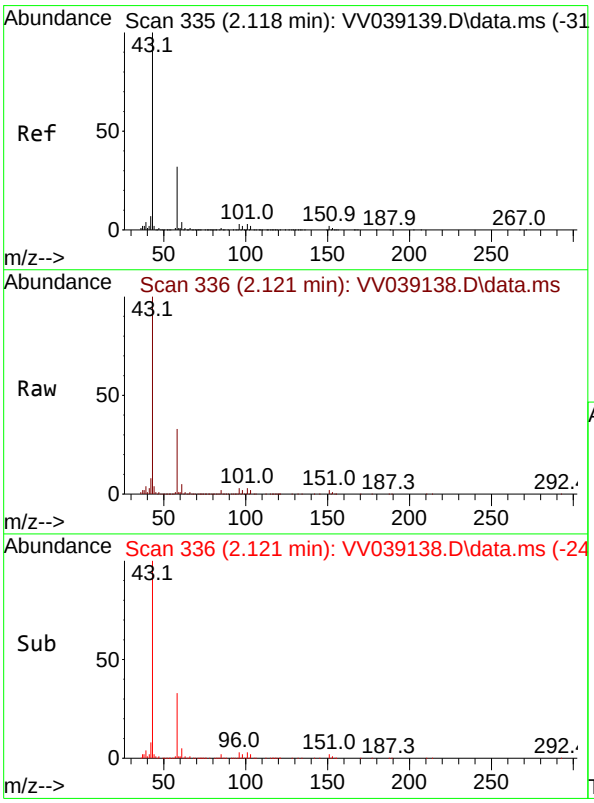
#15
Acrylonitrile
Concen: 94.179 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 504022

Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.1	99.1
51	35.7	28.5	42.7

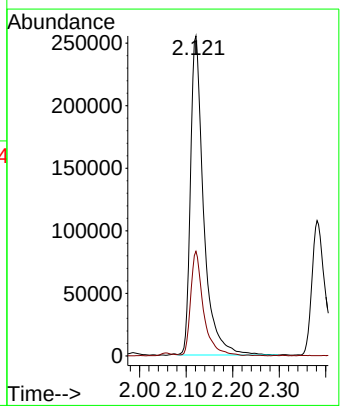


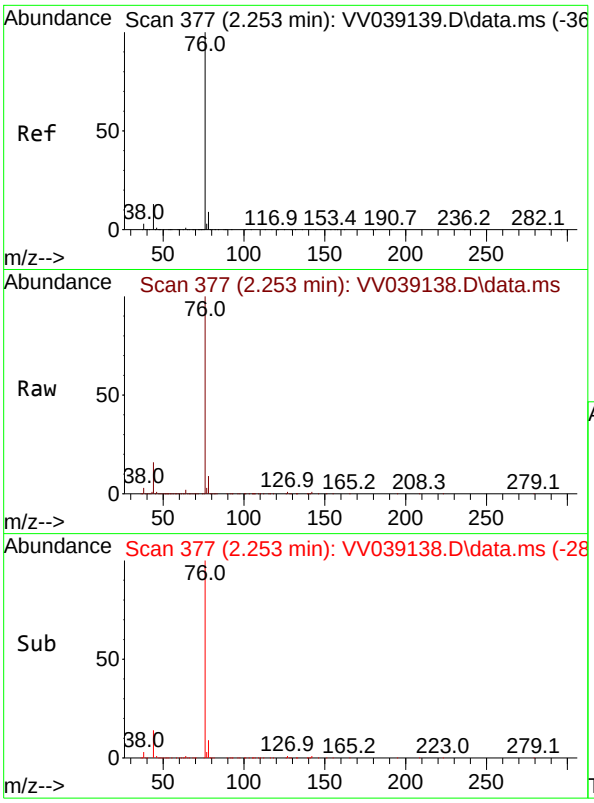


#16
Acetone
Concen: 95.756 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 499669

Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.8	38.6



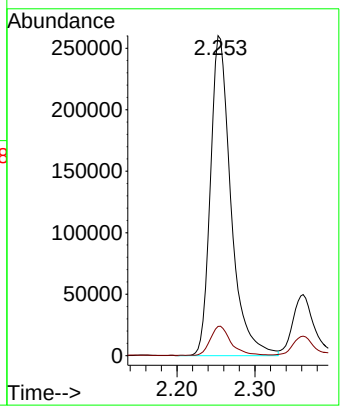


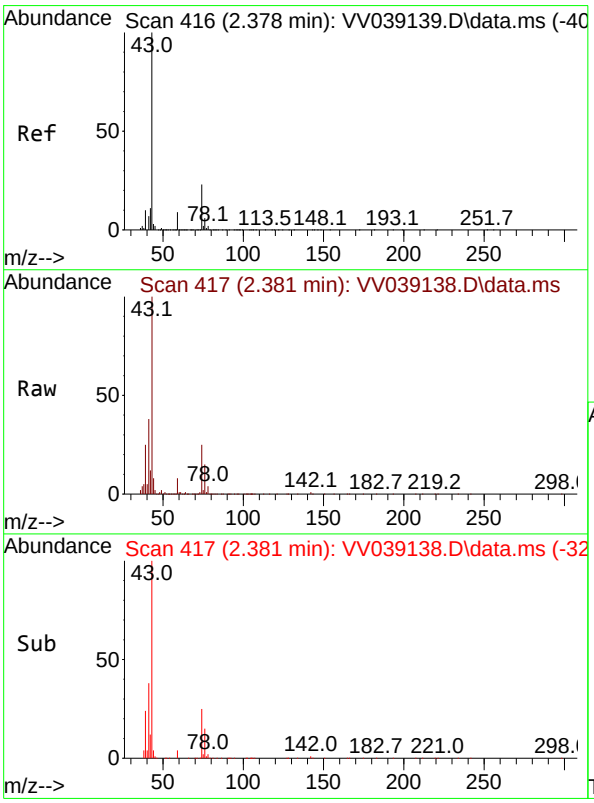
#17
Carbon Disulfide
Concen: 18.923 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 476229

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

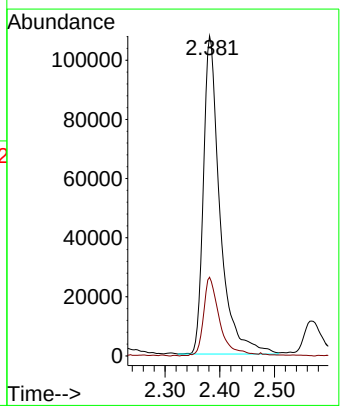


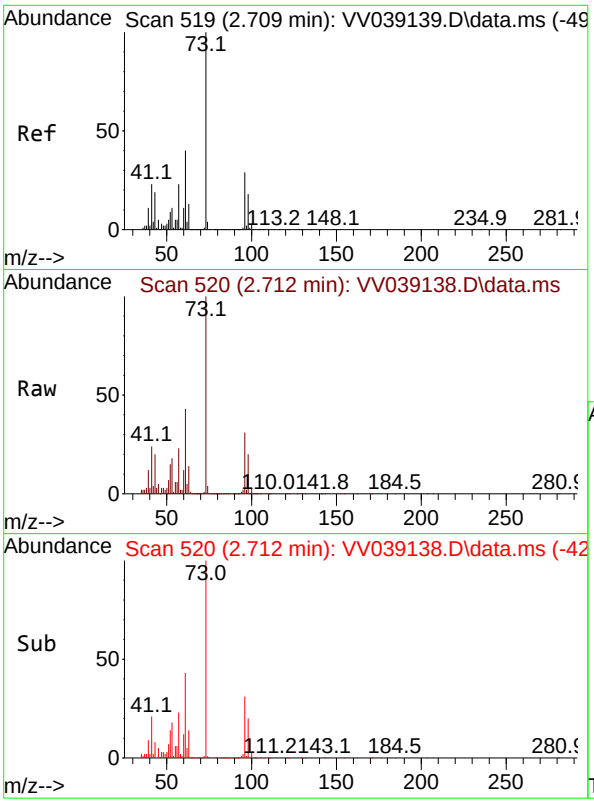


#18
Methyl Acetate
Concen: 19.328 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 226208

Ion	Ratio	Lower	Upper
43	100		
74	24.2	18.6	27.8



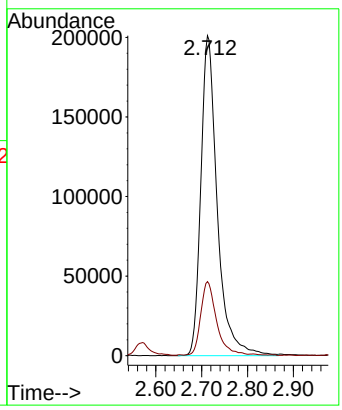


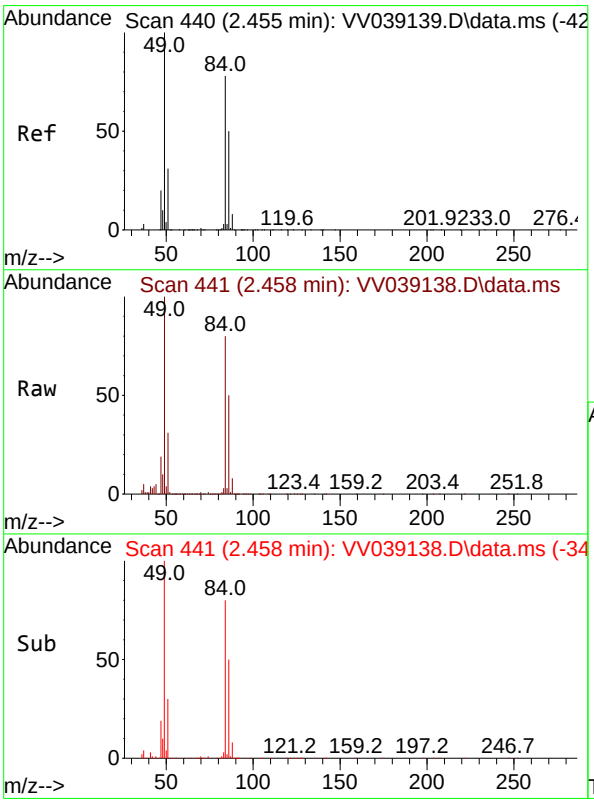
#19
Methyl tert-butyl Ether
Concen: 19.027 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 498918

Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.2	27.4

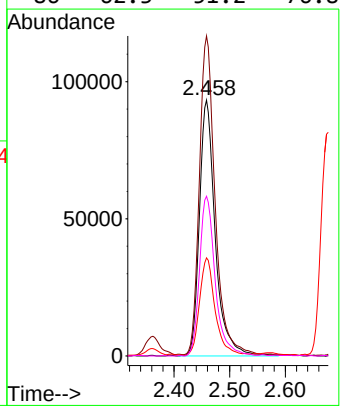


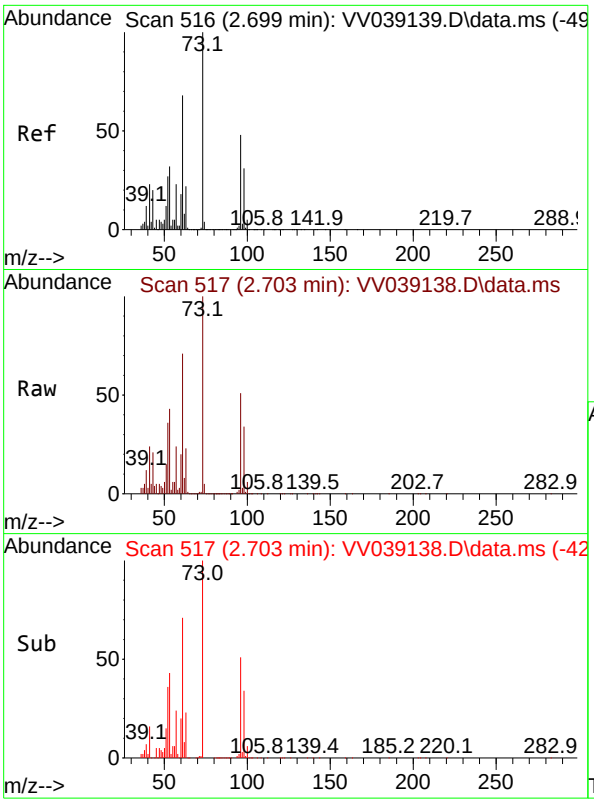


#20
Methylene Chloride
Concen: 20.143 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 84 Resp: 185050

Ion	Ratio	Lower	Upper
84	100		
49	124.6	102.8	154.2
51	38.0	31.9	47.9
86	62.3	51.2	76.8



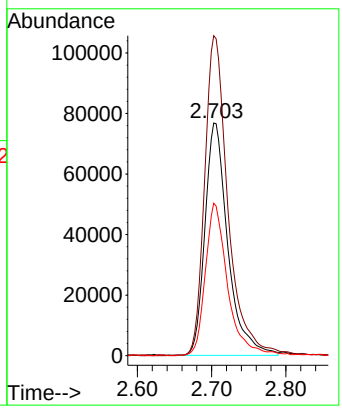


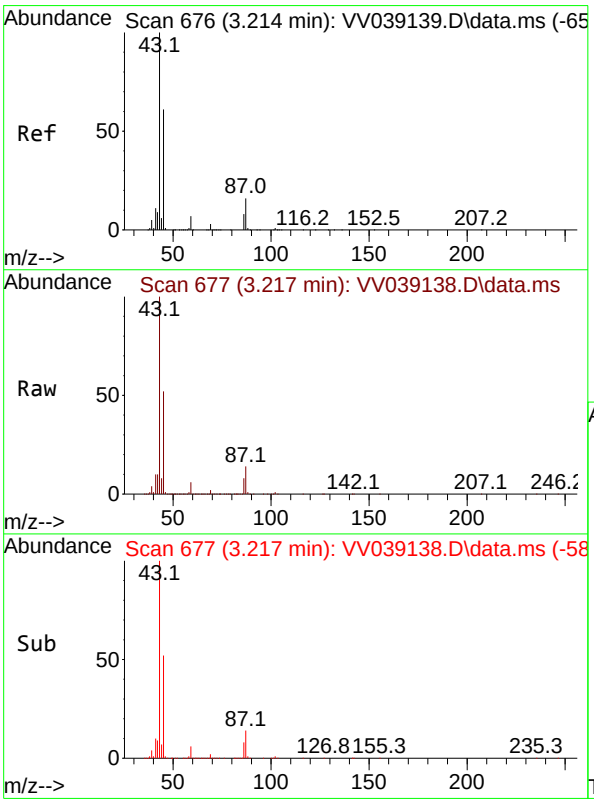
#21
trans-1,2-Dichloroethene
Concen: 18.823 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 164898

Ion	Ratio	Lower	Upper
96	100		
61	137.4	112.8	169.2
98	65.4	51.1	76.7

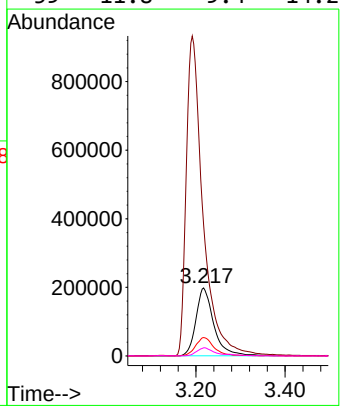


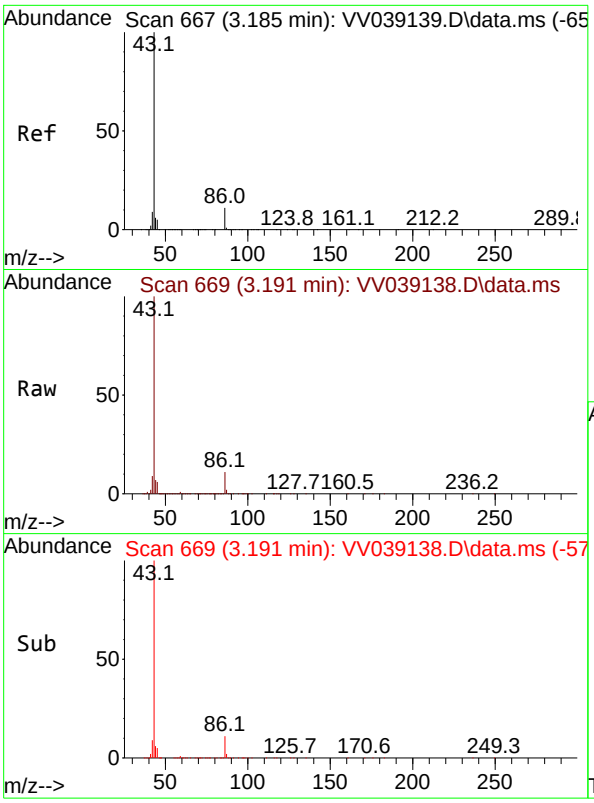


#22
Diisopropyl ether
Concen: 19.640 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 45 Resp: 552331

Ion	Ratio	Lower	Upper
45	100		
43	191.3	130.9	196.3
87	27.0	21.1	31.7
59	11.8	9.4	14.2



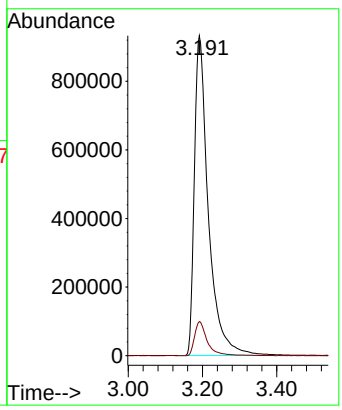


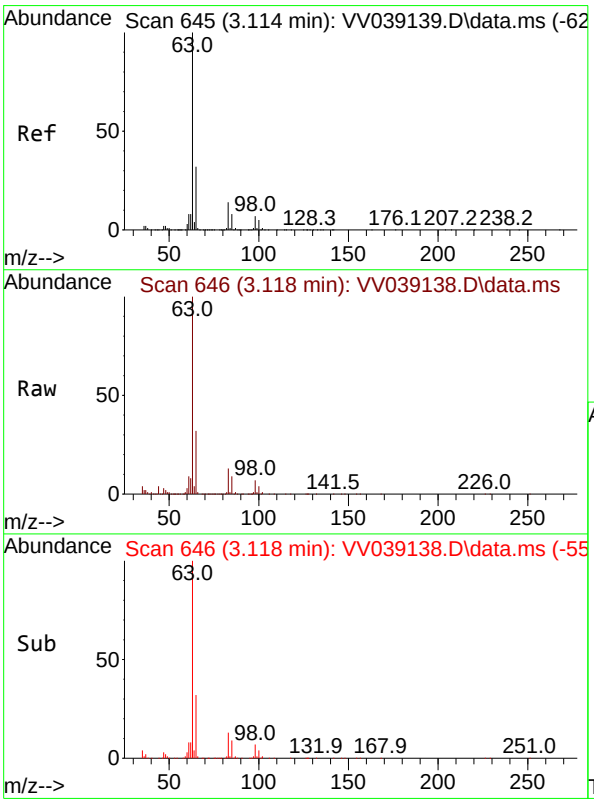
#23
Vinyl Acetate
Concen: 99.414 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 2445787

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6

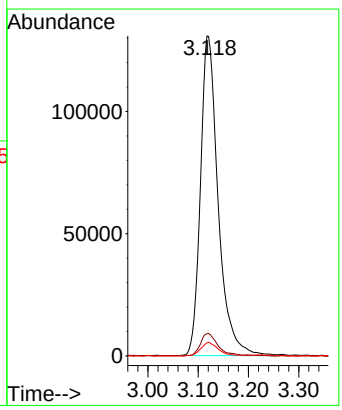


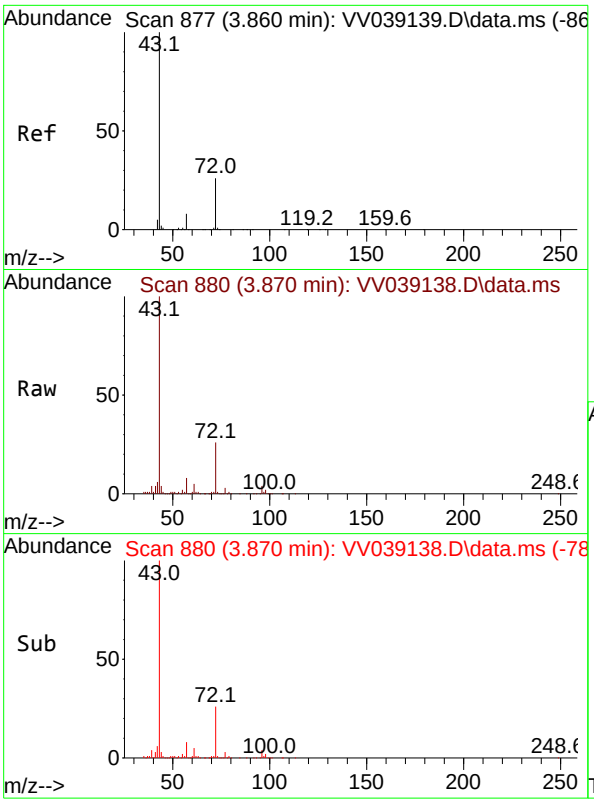


#24
1,1-Dichloroethane
Concen: 18.615 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 63 Resp: 320146

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.1	2.2	6.6



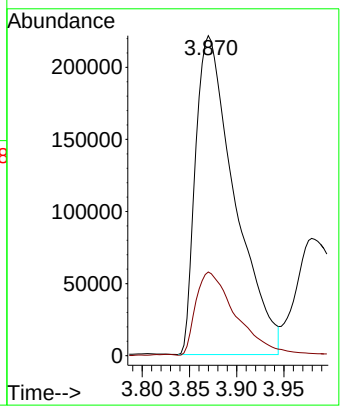


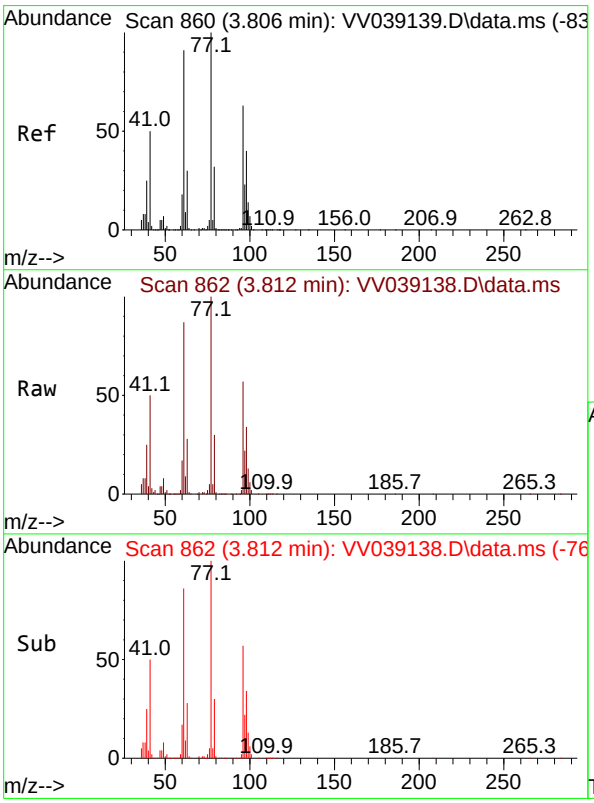
#25
2-Butanone
Concen: 102.519 ug/l
RT: 3.870 min Scan# 8
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 637413

Ion	Ratio	Lower	Upper
43	100		
72	26.1	21.0	31.6

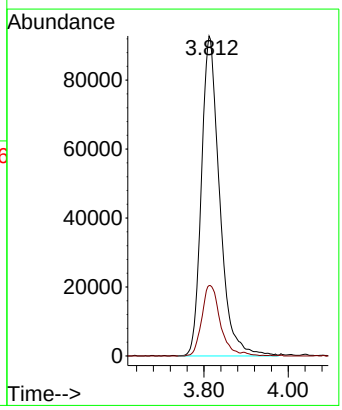


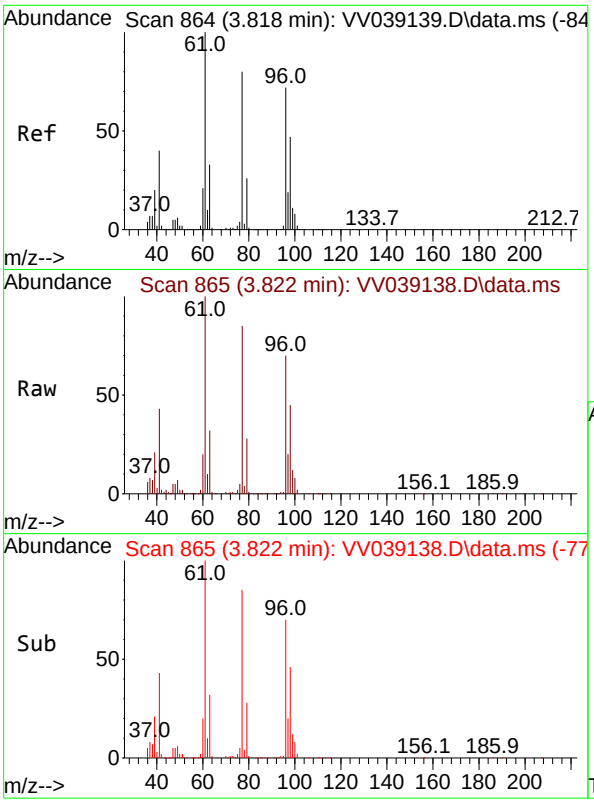


#26
2,2-Dichloropropane
Concen: 18.326 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 77 Resp: 278362

Ion	Ratio	Lower	Upper
77	100		
97	21.9	11.6	34.7



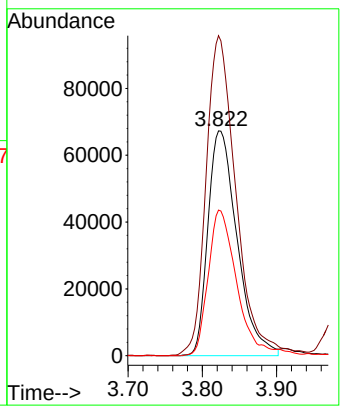


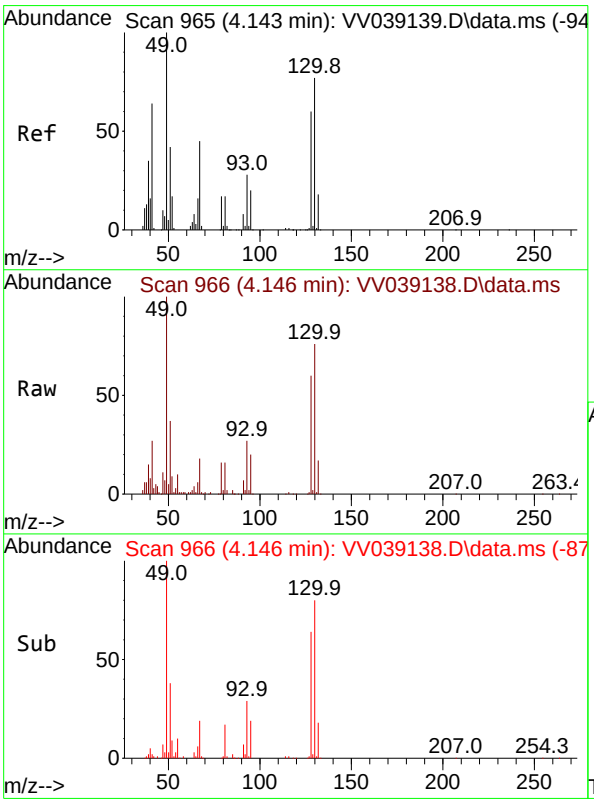
#27
cis-1,2-Dichloroethene
Concen: 19.031 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 183867

Ion	Ratio	Lower	Upper
96	100		
61	146.5	0.0	286.4
98	63.8	0.0	126.6

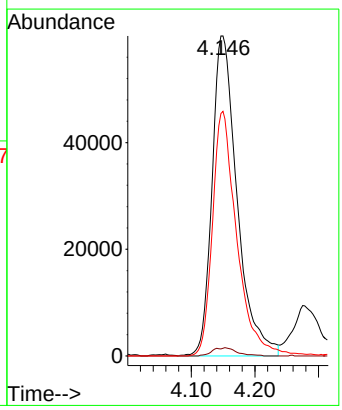


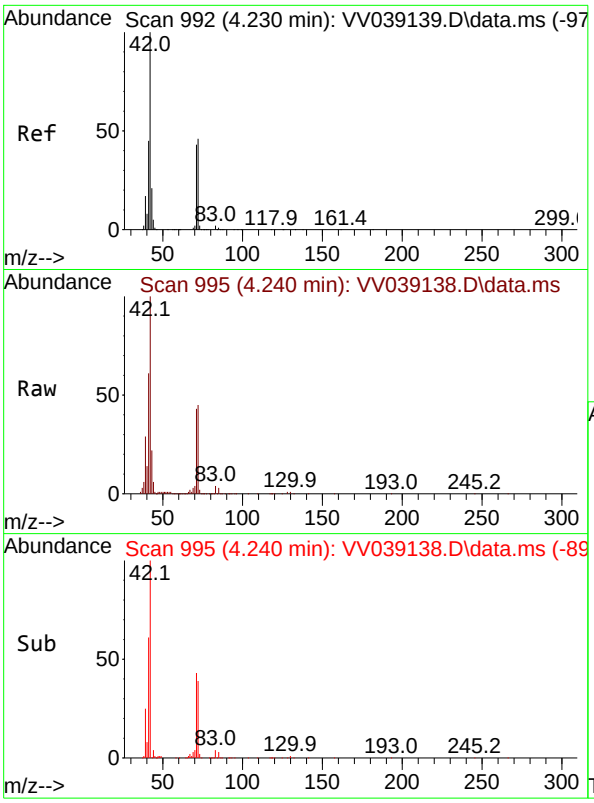


#28
Bromochloromethane
Concen: 21.654 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 49 Resp: 164406

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.2
130	74.3	60.2	90.2



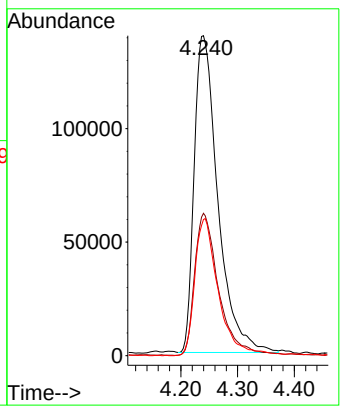


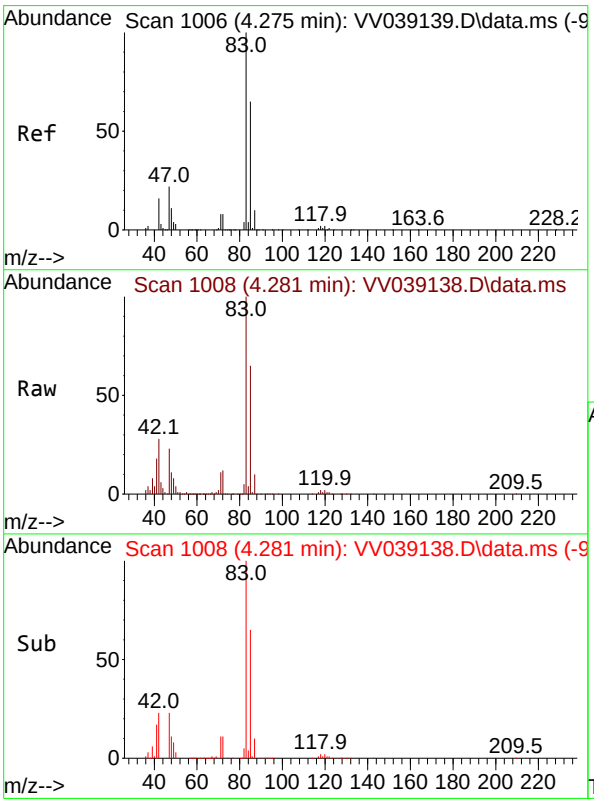
#29
Tetrahydrofuran
Concen: 102.491 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 405777

Ion	Ratio	Lower	Upper
42	100		
72	45.2	36.3	54.5
71	42.2	34.3	51.5

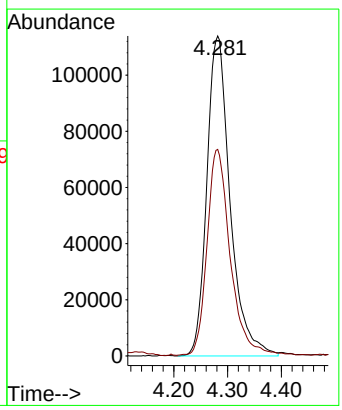


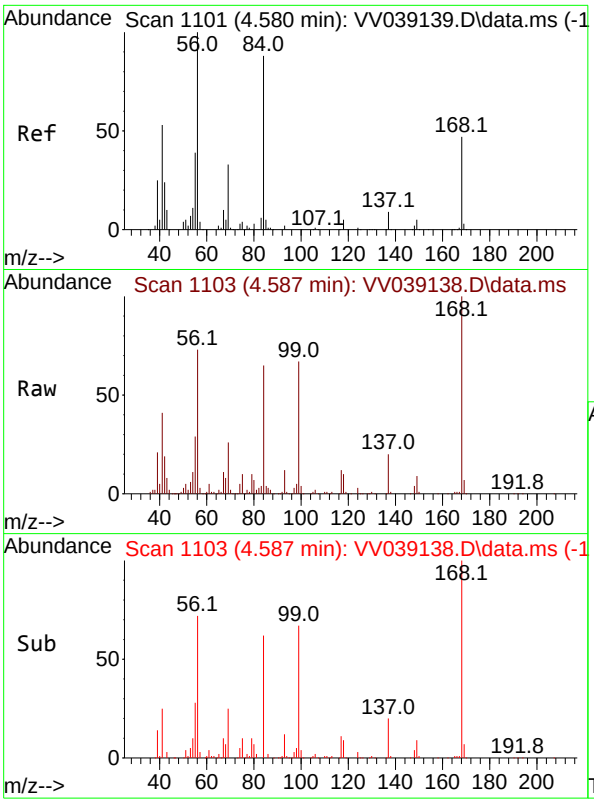


#30
Chloroform
Concen: 19.083 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 83 Resp: 342700

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1



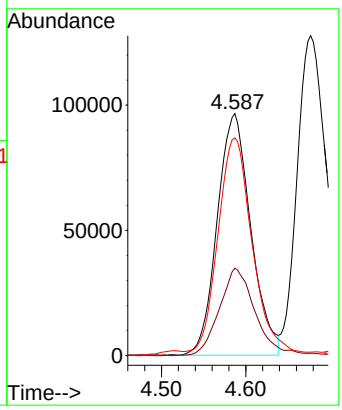


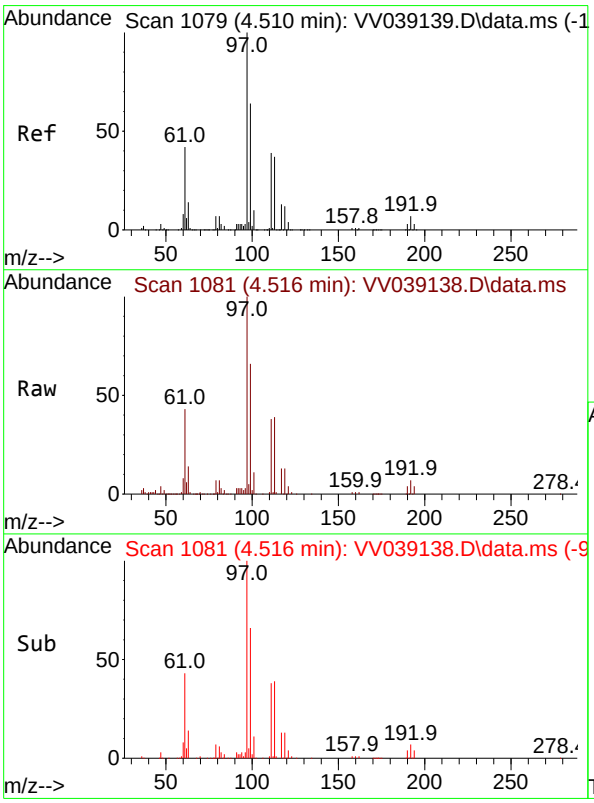
#31
Cyclohexane
Concen: 18.934 ug/l
RT: 4.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 266753

Ion	Ratio	Lower	Upper
56	100		
69	36.0	26.2	39.2
84	88.2	70.3	105.5

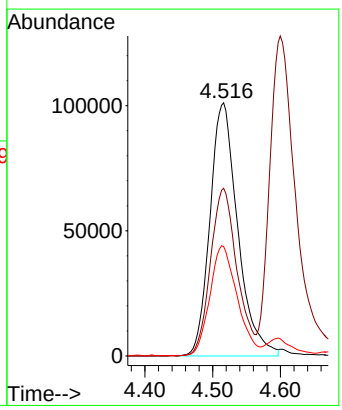


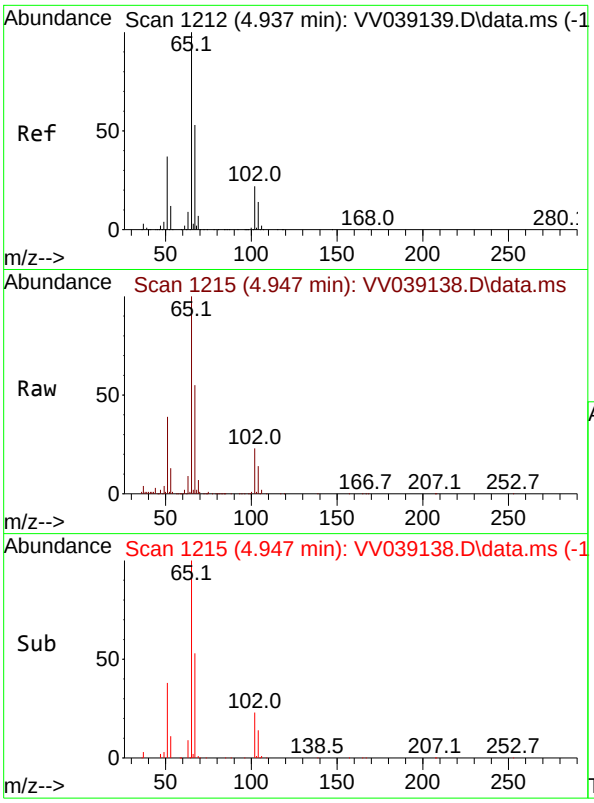


#32
1,1,1-Trichloroethane
Concen: 18.546 ug/l
RT: 4.516 min Scan# 1081
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 97 Resp: 288341

Ion	Ratio	Lower	Upper
97	100		
99	63.5	49.6	74.4
61	43.1	34.5	51.7



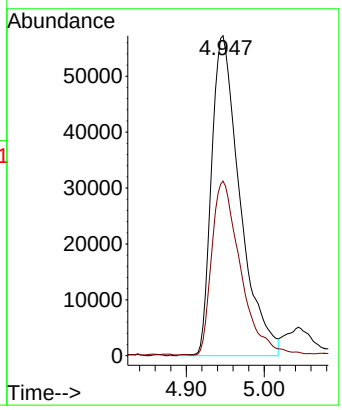


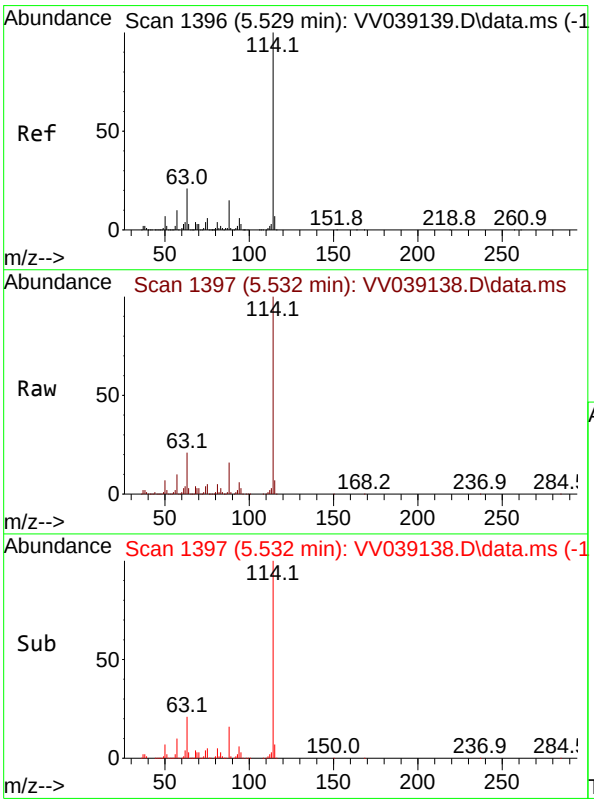
#33
1,2-Dichloroethane-d4
Concen: 18.317 ug/l
RT: 4.947 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 144689

Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	107.0

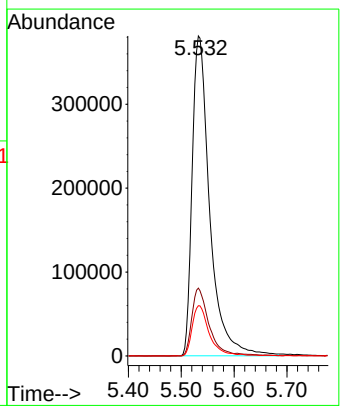


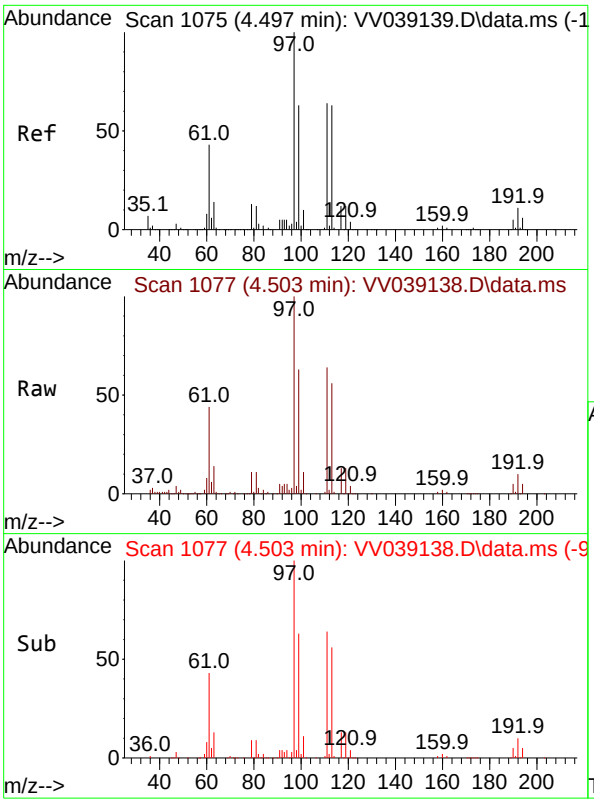


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:114 Resp: 880963

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	42.6
88	15.7	0.0	30.8



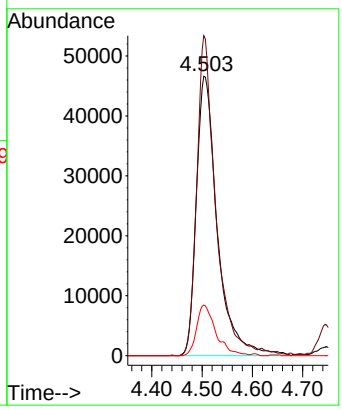


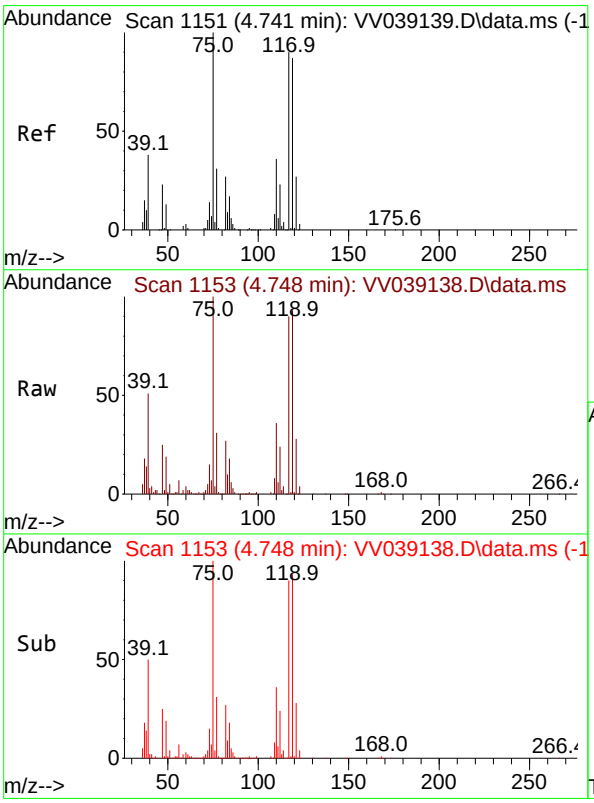
#35
Dibromofluoromethane
Concen: 19.014 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 134662

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.4	123.6
192	16.7	13.8	20.8

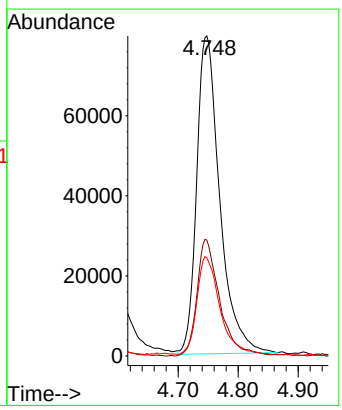


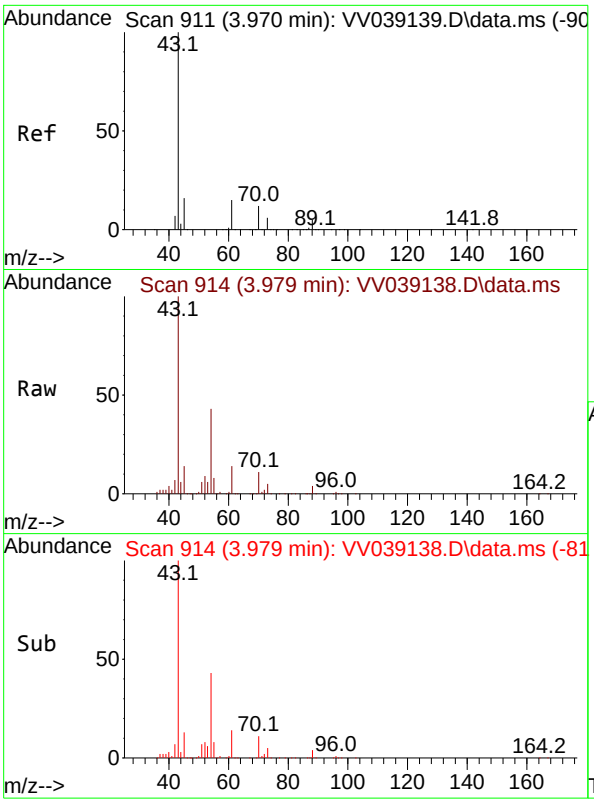


#36
1,1-Dichloropropene
Concen: 19.734 ug/l
RT: 4.748 min Scan# 1153
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 212835

Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.1	54.1
77	30.3	24.8	37.2



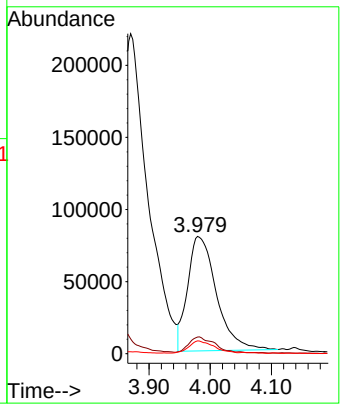


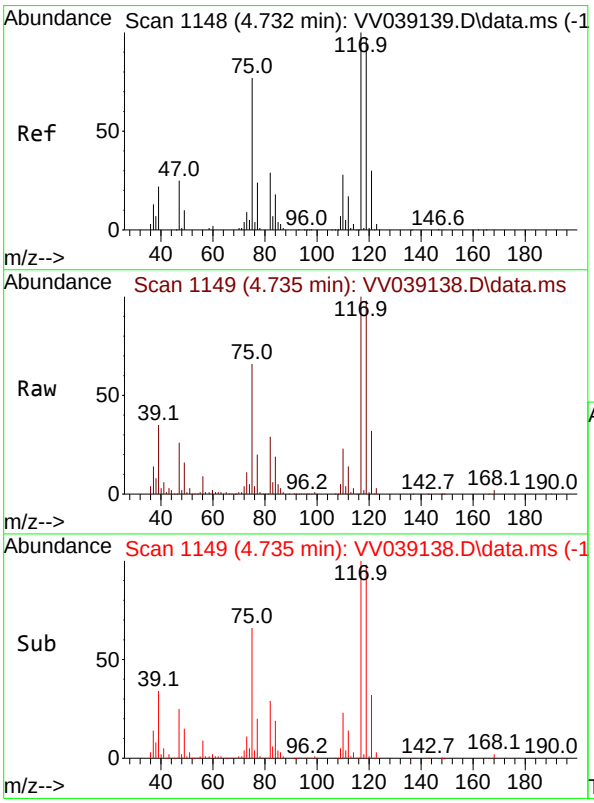
#37
Ethyl Acetate
Concen: 19.696 ug/l
RT: 3.979 min Scan# 91
Delta R.T. 0.009 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 260591

Ion	Ratio	Lower	Upper
43	100		
61	11.3	10.3	15.5
70	9.0	8.0	12.0

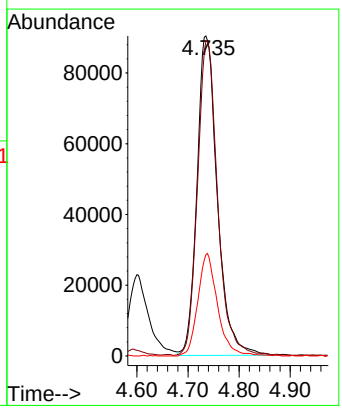


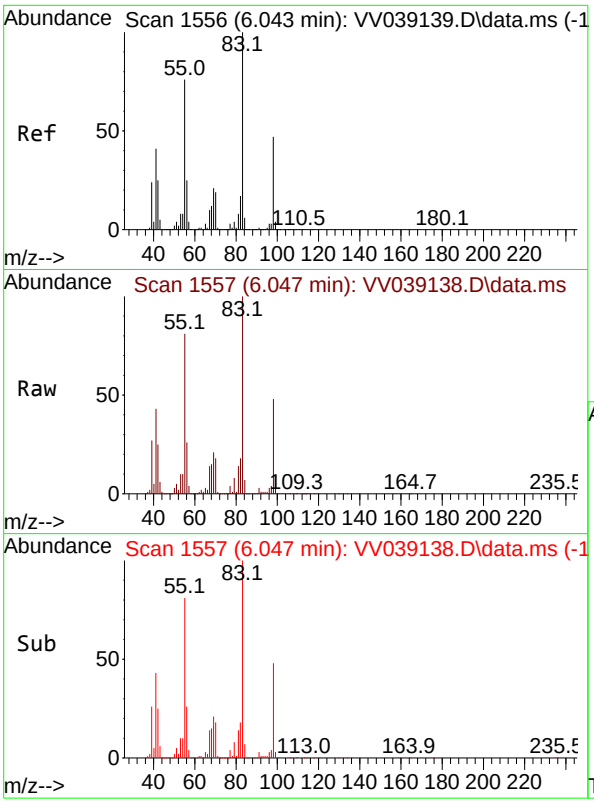


#38
Carbon Tetrachloride
Concen: 19.252 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:117 Resp: 250103

Ion	Ratio	Lower	Upper
117	100		
119	98.1	77.2	115.8
121	31.7	24.2	36.2



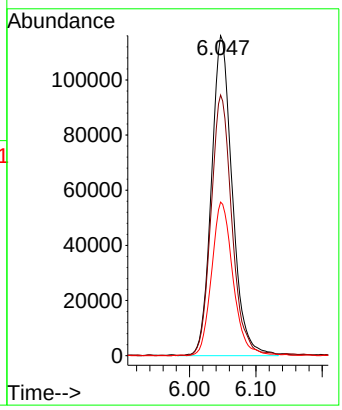


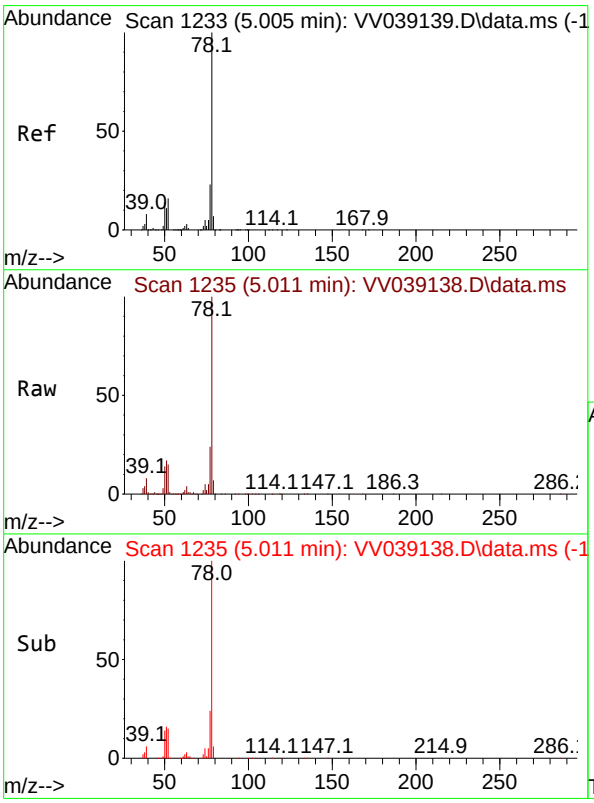
#39
Methylcyclohexane
Concen: 19.619 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 253693

Ion	Ratio	Lower	Upper
83	100		
55	81.4	60.5	90.7
98	48.0	37.8	56.6

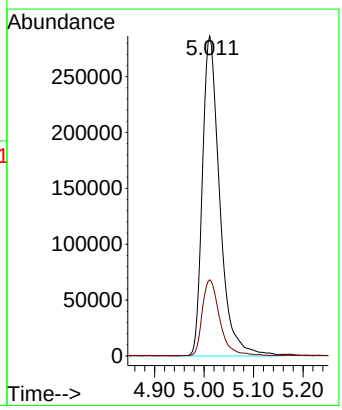


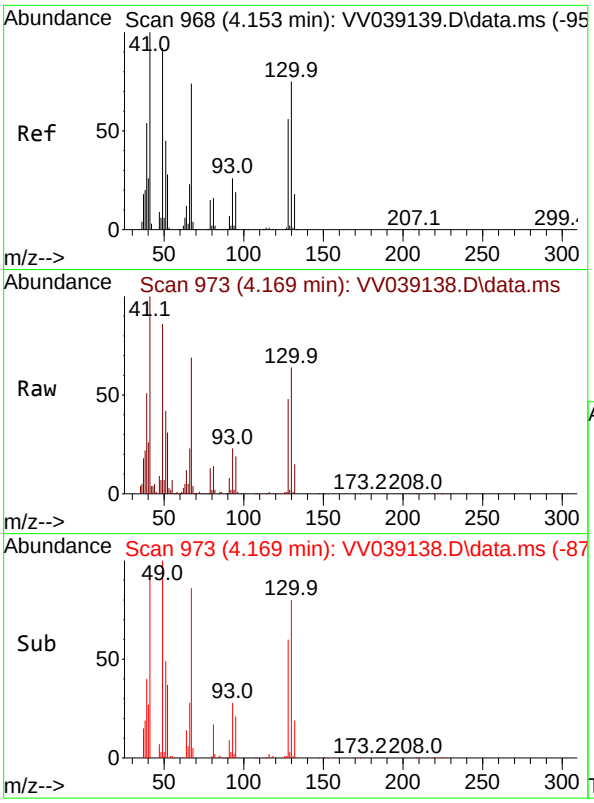


#40
Benzene
Concen: 19.994 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 78 Resp: 697141

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1



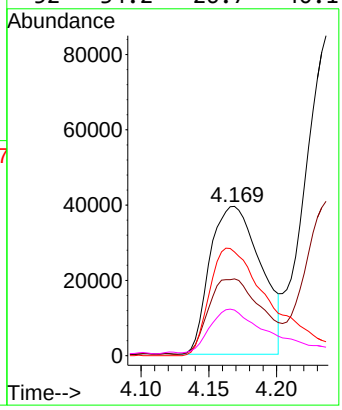


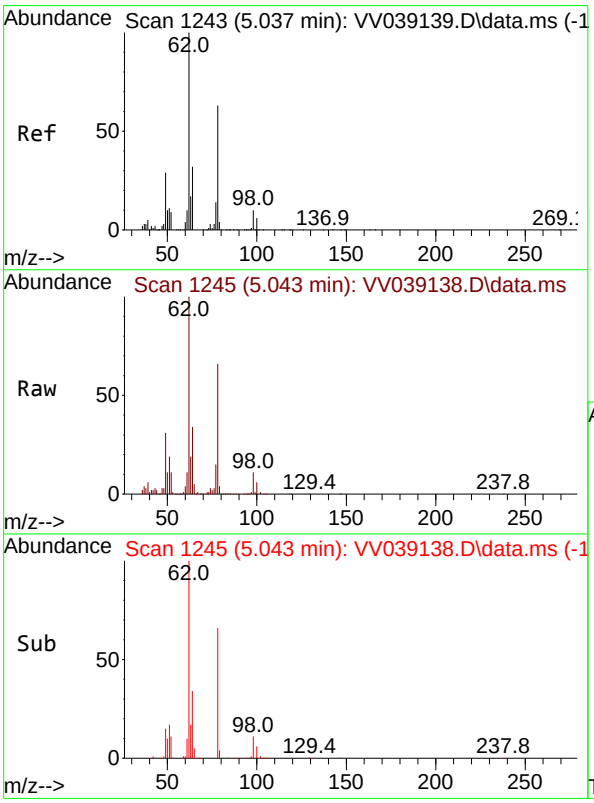
#41
Methacrylonitrile
Concen: 18.721 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 102755

Ion	Ratio	Lower	Upper
41	100		
39	53.8	42.2	63.2
67	92.1	67.9	101.9
52	34.2	26.7	40.1

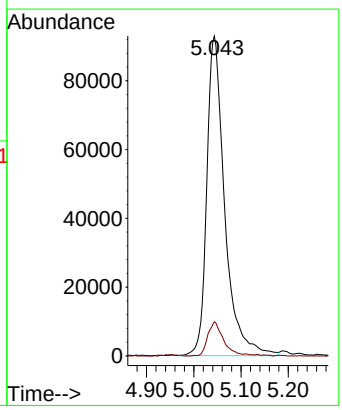


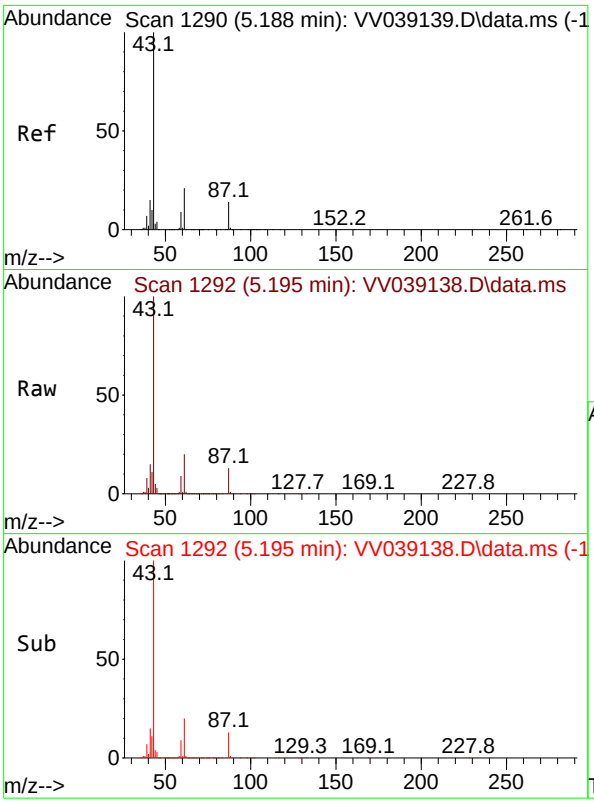


#42
1,2-Dichloroethane
Concen: 20.012 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 62 Resp: 244487

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.2



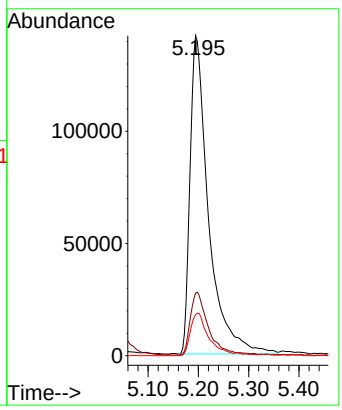


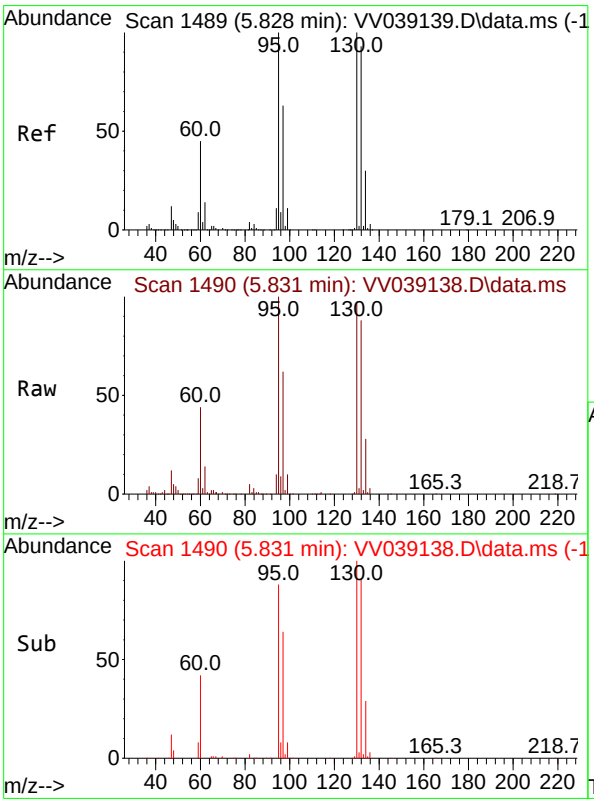
#43
Isopropyl Acetate
Concen: 19.889 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 362512

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.9	23.9
87	12.9	11.0	16.6

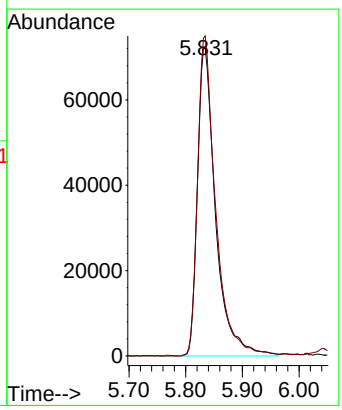


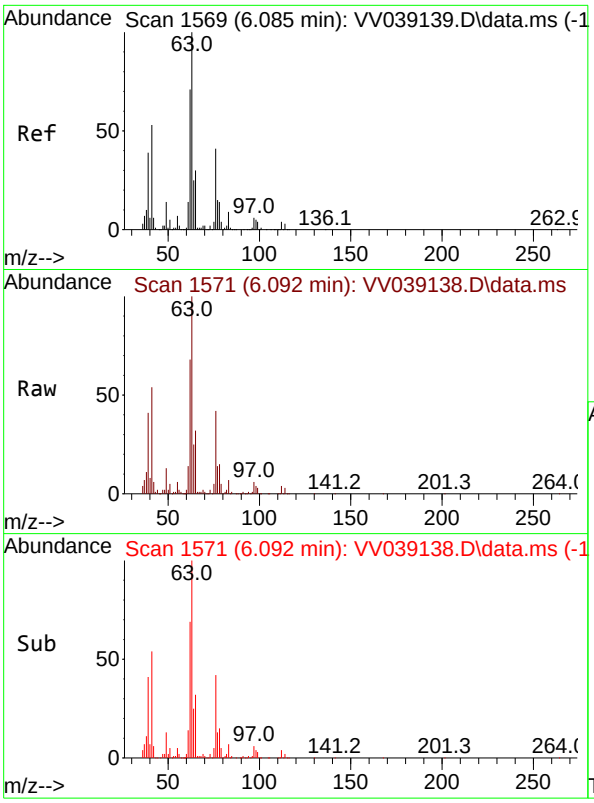


#44
Trichloroethene
Concen: 19.972 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:130 Resp: 160692

Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	199.2



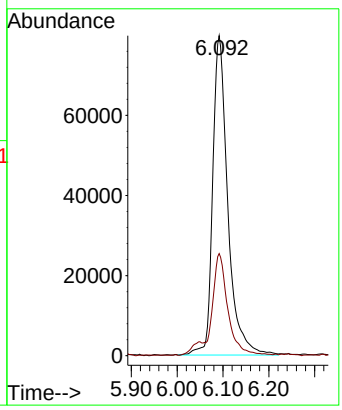


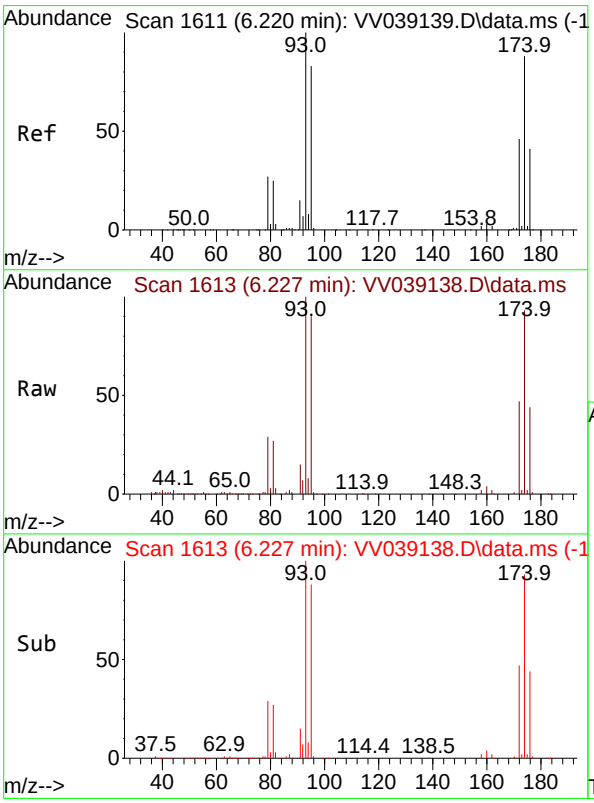
#45
1,2-Dichloropropane
Concen: 21.087 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 182757

Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.7	35.5

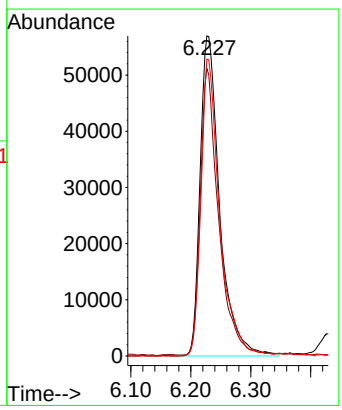


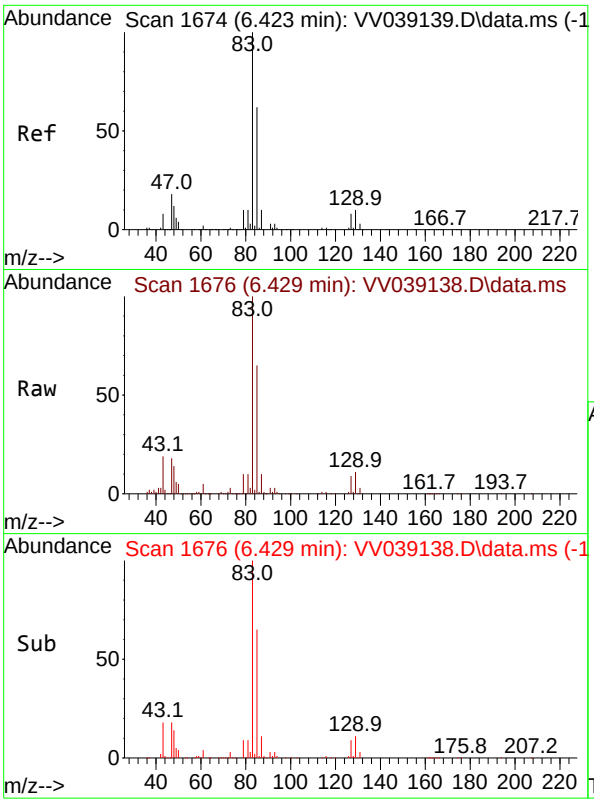


#46
Dibromomethane
Concen: 19.495 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 93 Resp: 129319

Ion	Ratio	Lower	Upper
93	100		
95	83.4	65.5	98.3
174	88.9	69.0	103.4



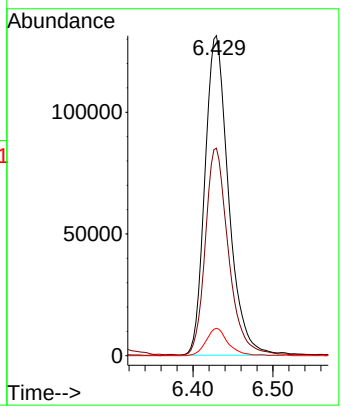


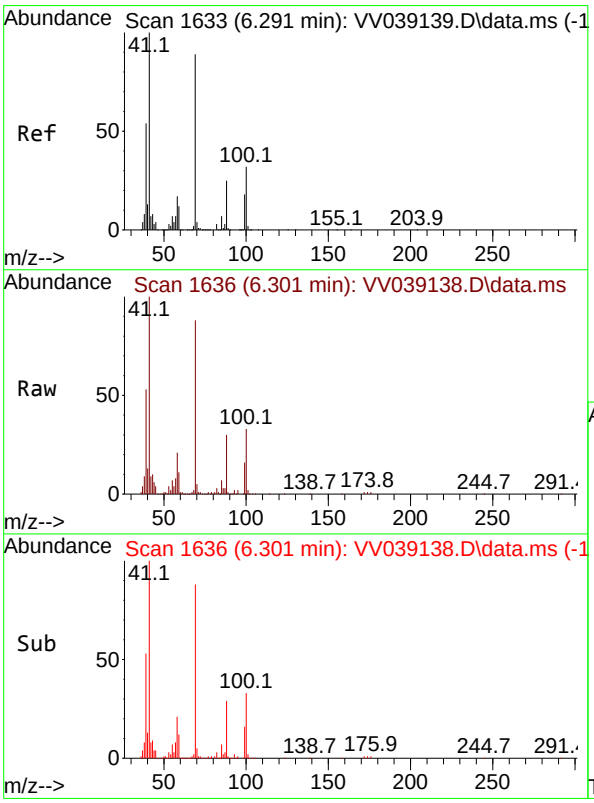
#47
Bromodichloromethane
Concen: 19.635 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 269262

Ion	Ratio	Lower	Upper
83	100		
85	64.7	49.7	74.5
127	8.6	6.6	9.8

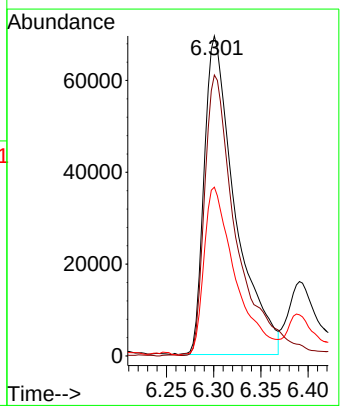


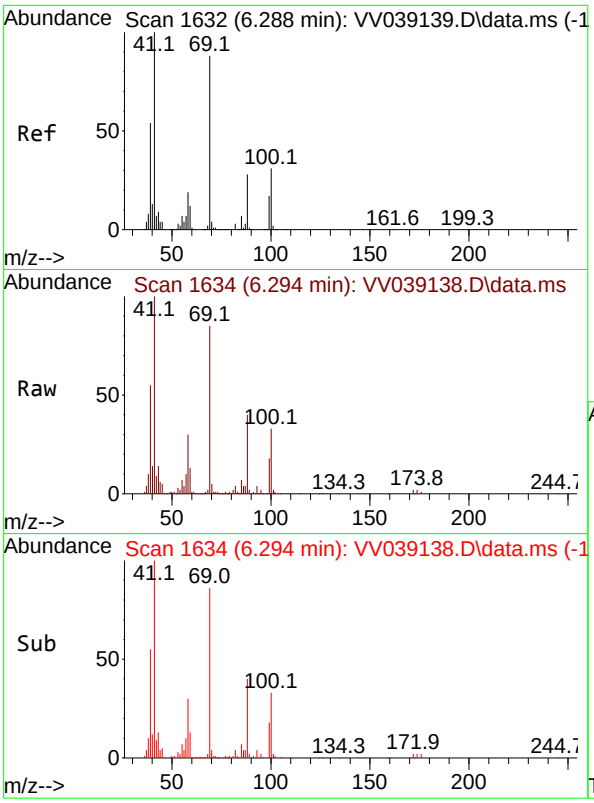


#48
Methyl methacrylate
Concen: 18.977 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 41 Resp: 158251

Ion	Ratio	Lower	Upper
41	100		
69	91.6	72.4	108.6
39	53.4	42.5	63.7



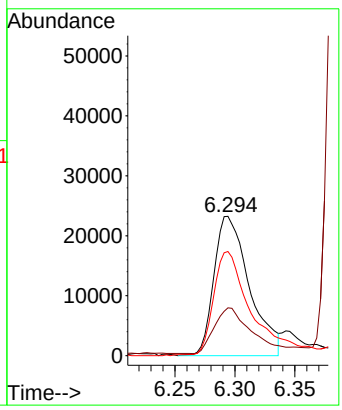


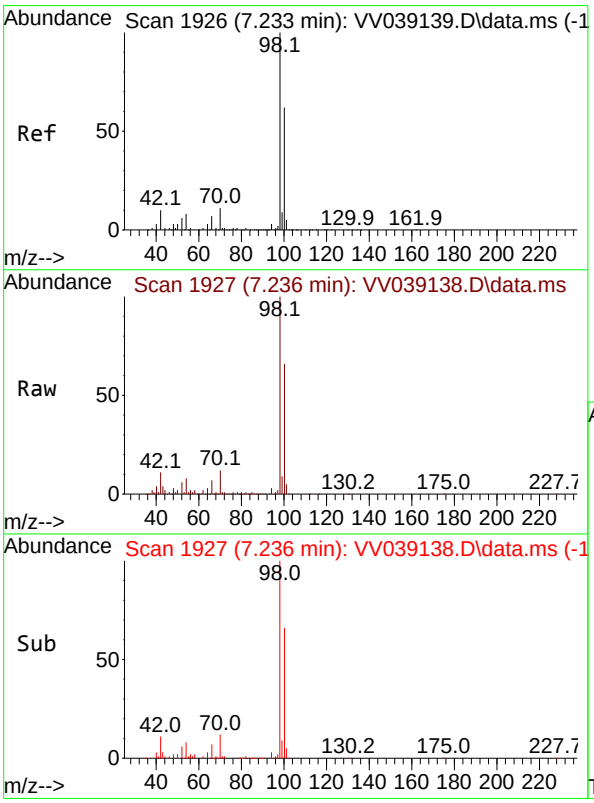
#49
1,4-Dioxane
Concen: 365.172 ug/l
RT: 6.294 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 47860

Ion	Ratio	Lower	Upper
88	100		
43	36.7	25.1	37.7
58	80.9	53.6	80.4#

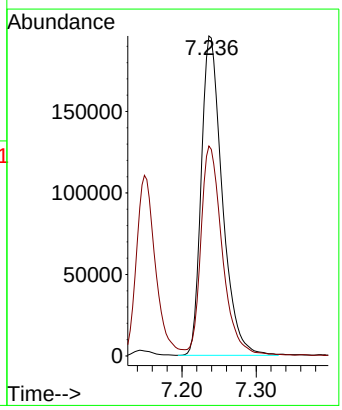


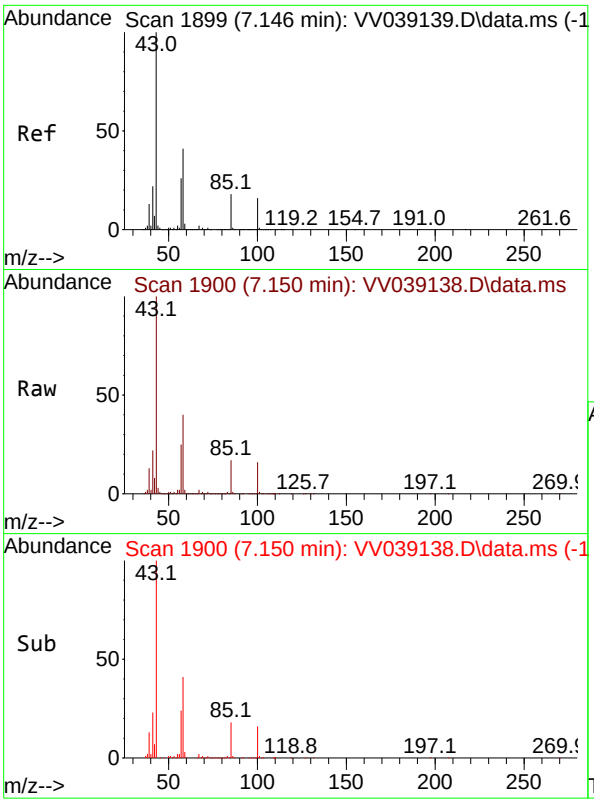


#50
Toluene-d8
Concen: 18.501 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 98 Resp: 384827

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.2	78.2



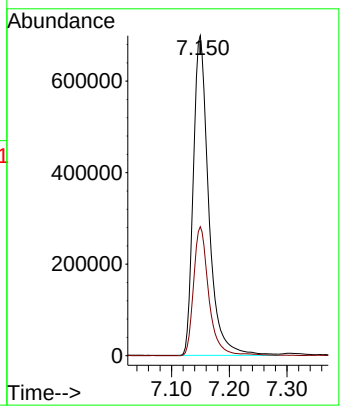


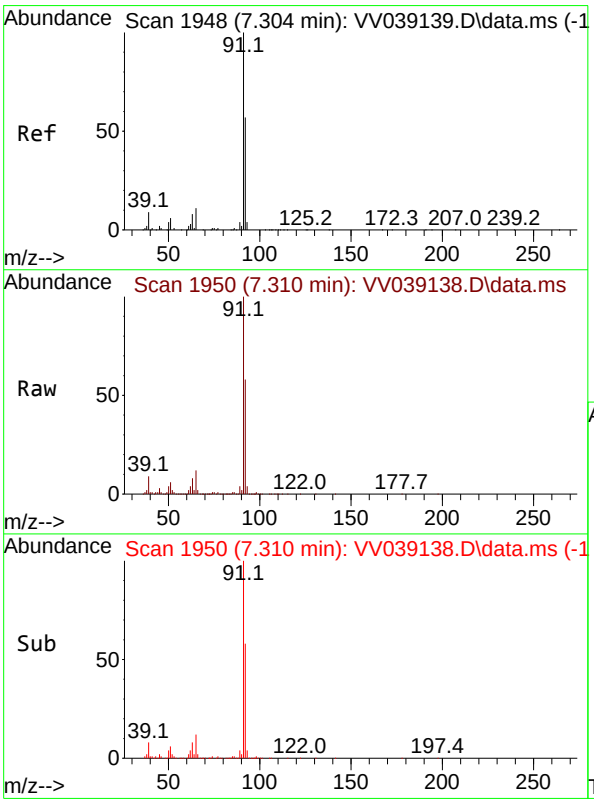
#51
4-Methyl-2-Pentanone
Concen: 111.268 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 1296796

Ion	Ratio	Lower	Upper
43	100		
58	39.2	32.3	48.5

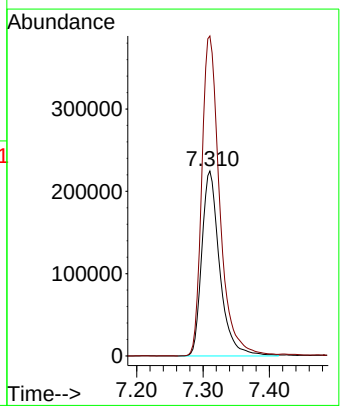


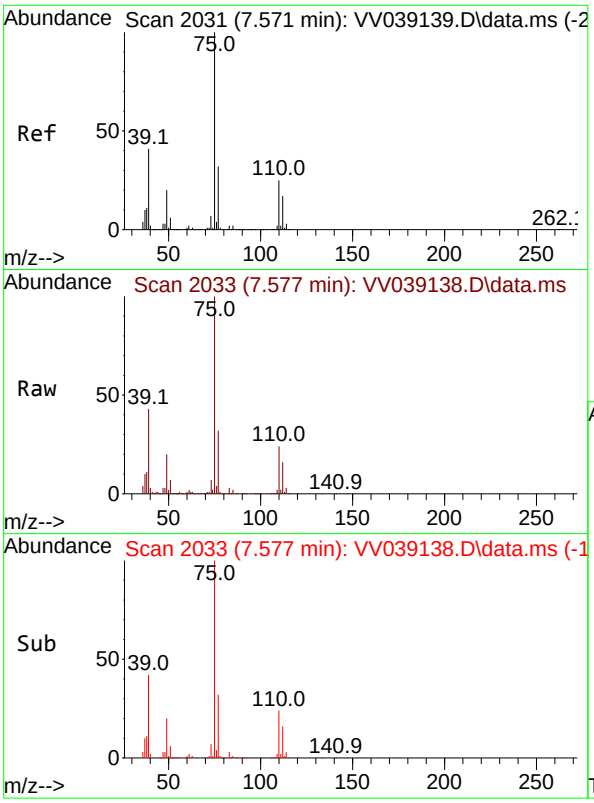


#52
Toluene
Concen: 20.892 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 92 Resp: 422367

Ion	Ratio	Lower	Upper
92	100		
91	173.4	139.2	208.8



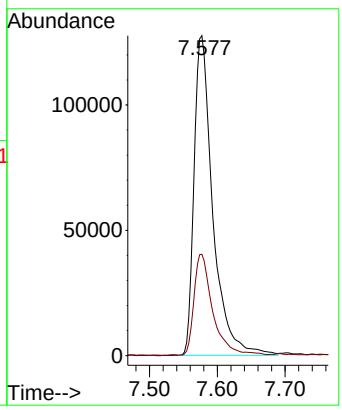


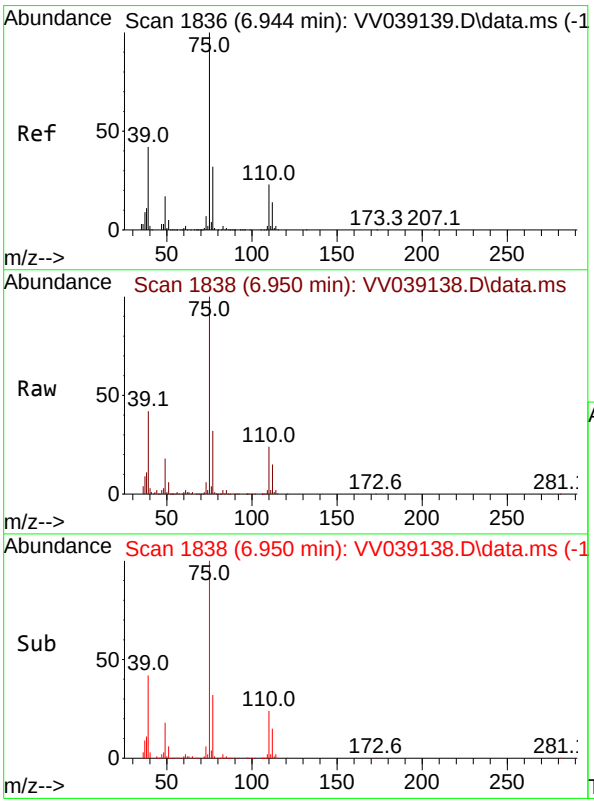
#53
t-1,3-Dichloropropene
Concen: 20.516 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 245181

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.9	38.9

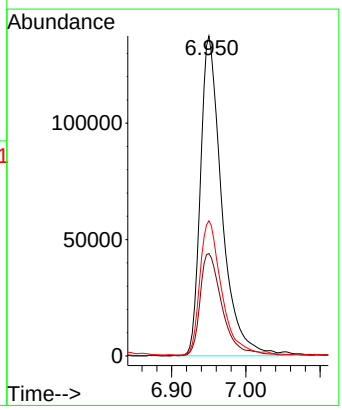


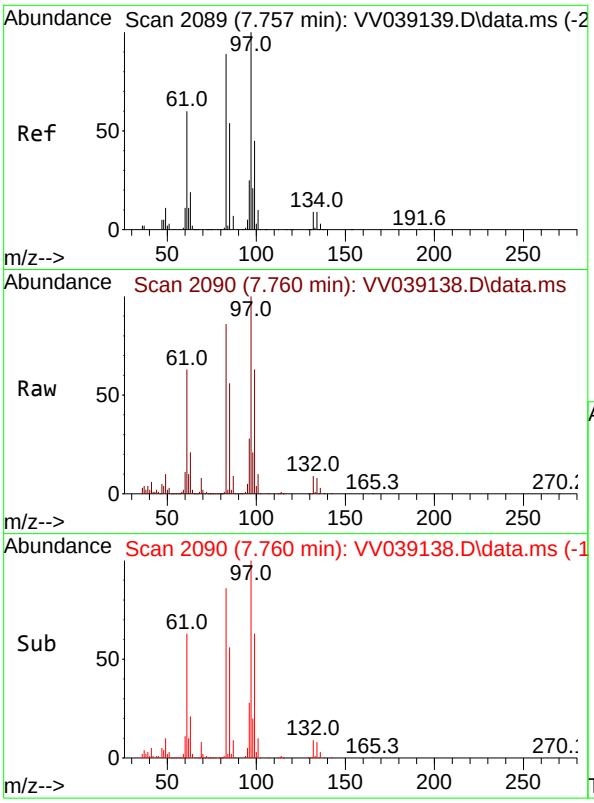


#54
cis-1,3-Dichloropropene
Concen: 20.761 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 273906

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.5	38.3
39	42.0	33.8	50.6



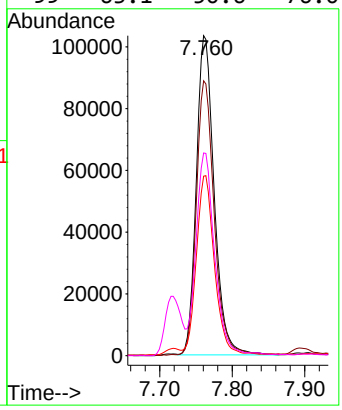


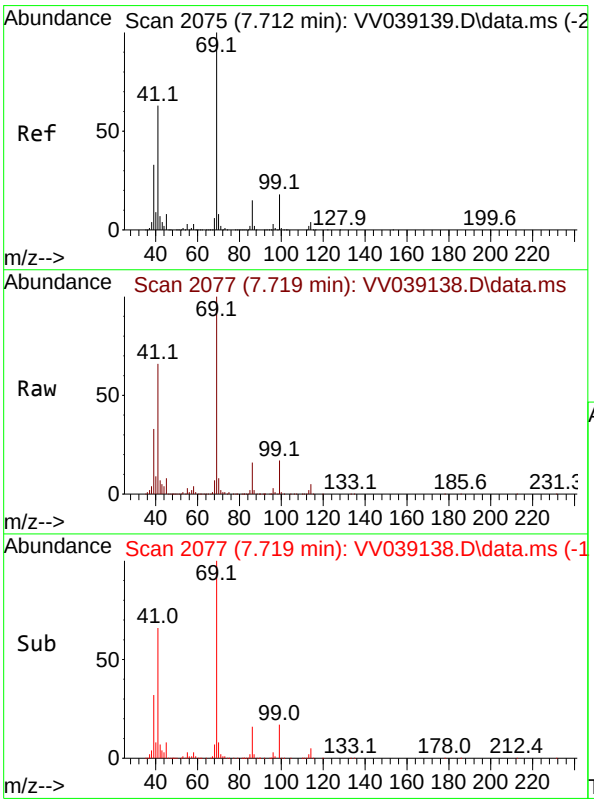
#55
1,1,2-Trichloroethane
Concen: 19.505 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 176812

Ion	Ratio	Lower	Upper
97	100		
83	85.9	71.1	106.7
85	55.6	44.6	67.0
99	63.1	50.6	76.0

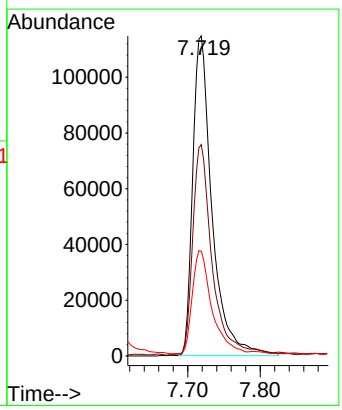


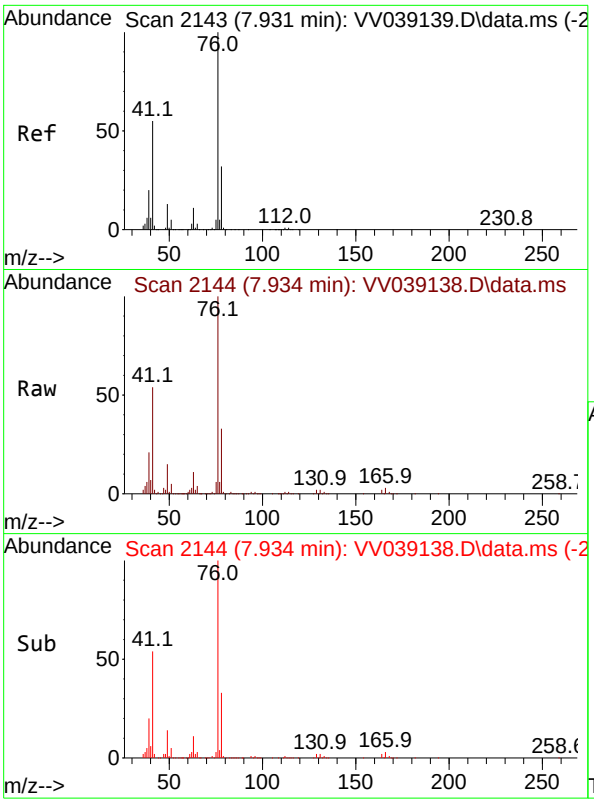


#56
Ethyl methacrylate
Concen: 19.723 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 69 Resp: 212320

Ion	Ratio	Lower	Upper
69	100		
41	66.2	50.7	76.1
39	32.3	26.0	39.0



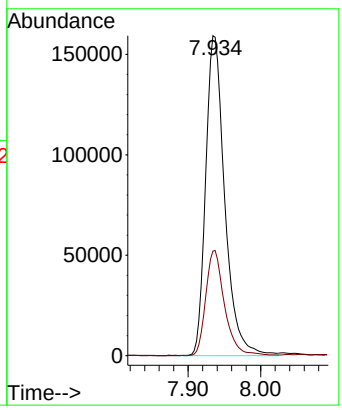


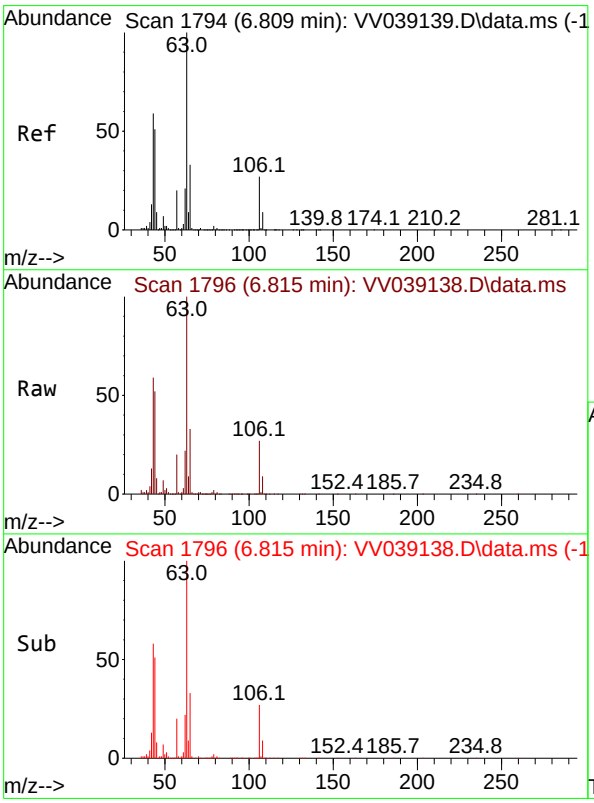
#57
1,3-Dichloropropane
Concen: 20.363 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 291304

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.1	39.1

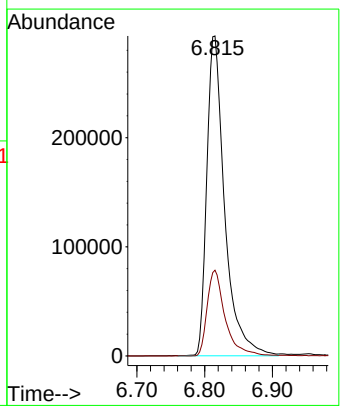


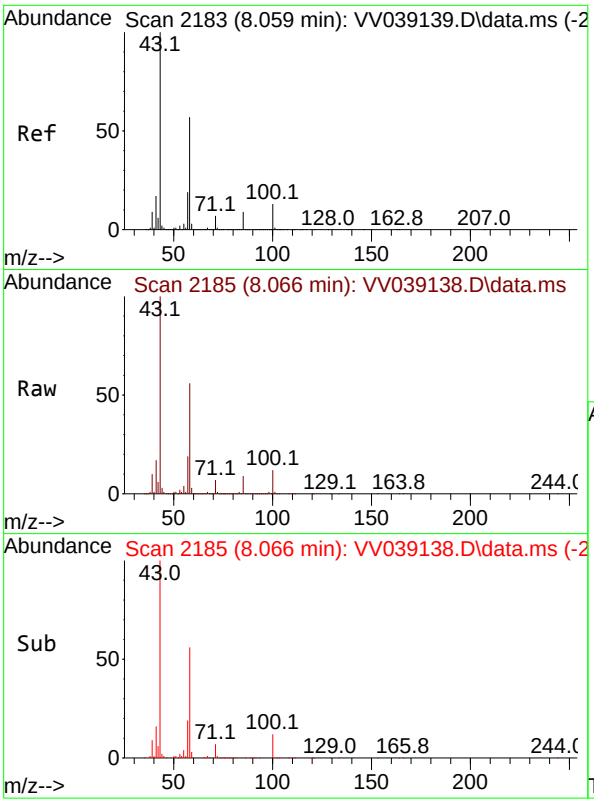


#58
2-Chloroethyl Vinyl ether
Concen: 94.274 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 63 Resp: 536254

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.1	33.1



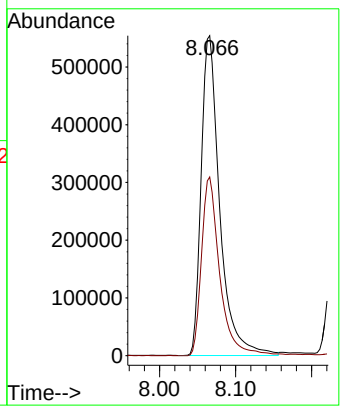


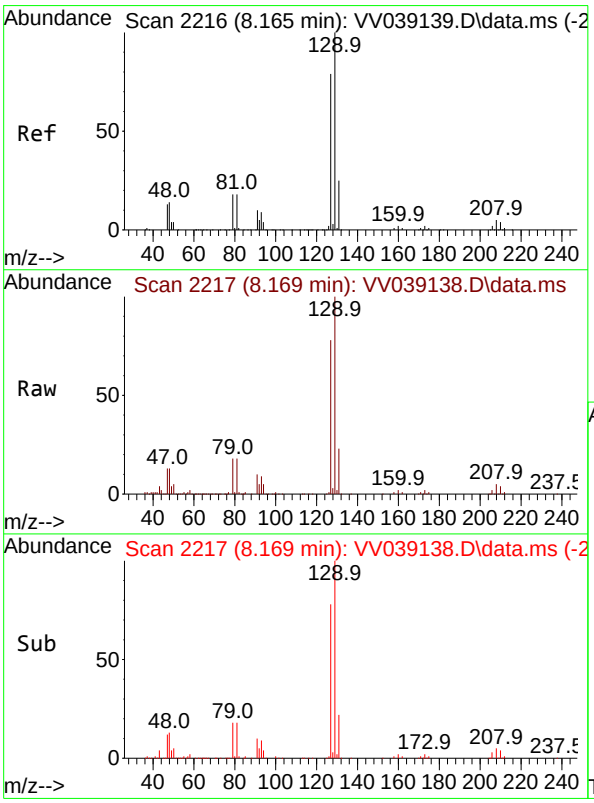
#59
2-Hexanone
Concen: 101.225 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 940265

Ion	Ratio	Lower	Upper
43	100		
58	55.0	28.3	85.0

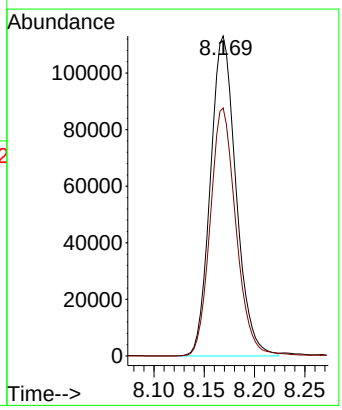


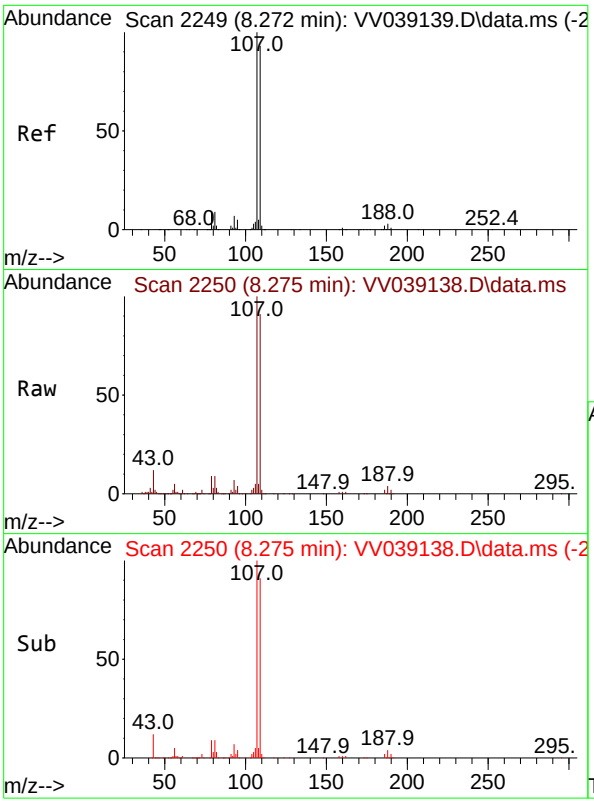


#60
Dibromochloromethane
Concen: 19.440 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:129 Resp: 200793

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.3	117.9



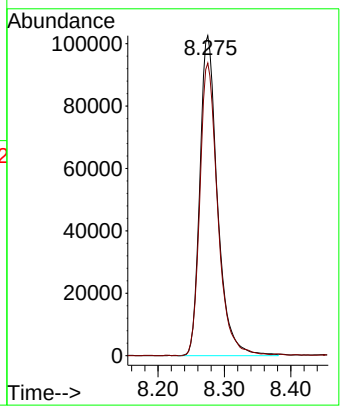


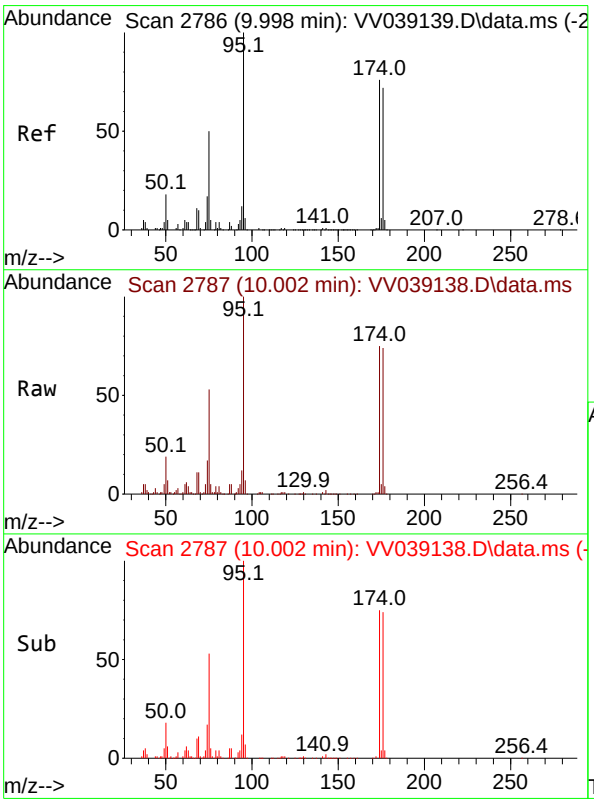
#61
1,2-Dibromoethane
Concen: 20.447 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 189555

Ion	Ratio	Lower	Upper
107	100		
109	92.8	74.6	112.0

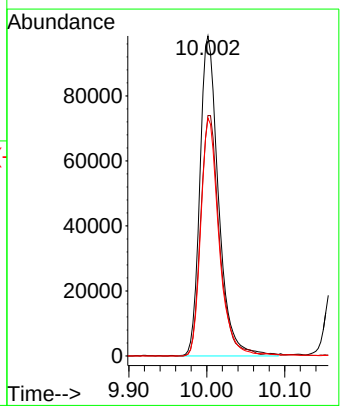


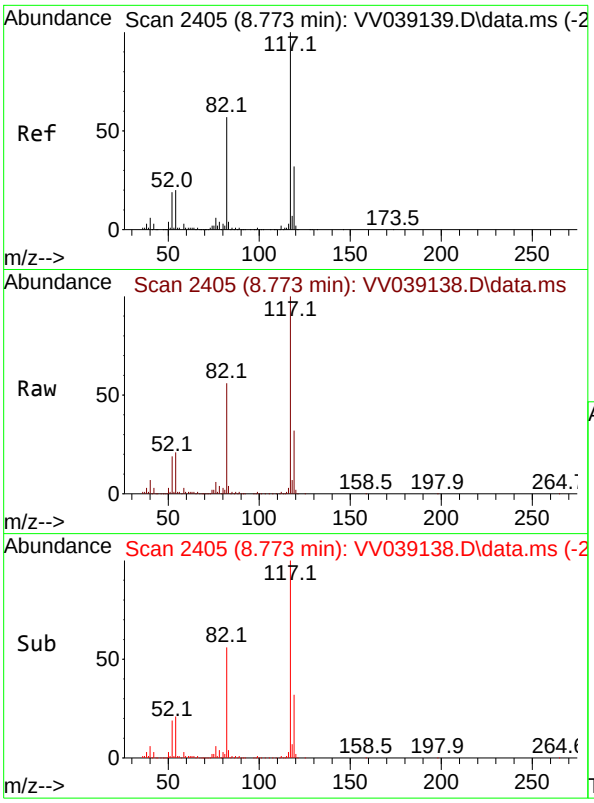


#62
4-Bromofluorobenzene
Concen: 19.105 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 95 Resp: 163597

Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	150.4
176	72.3	0.0	144.2



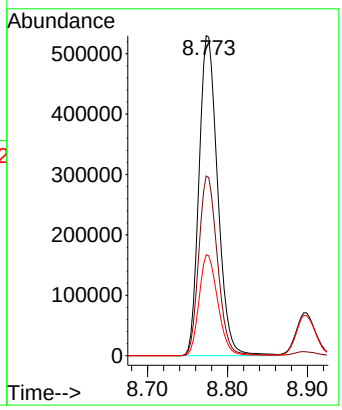


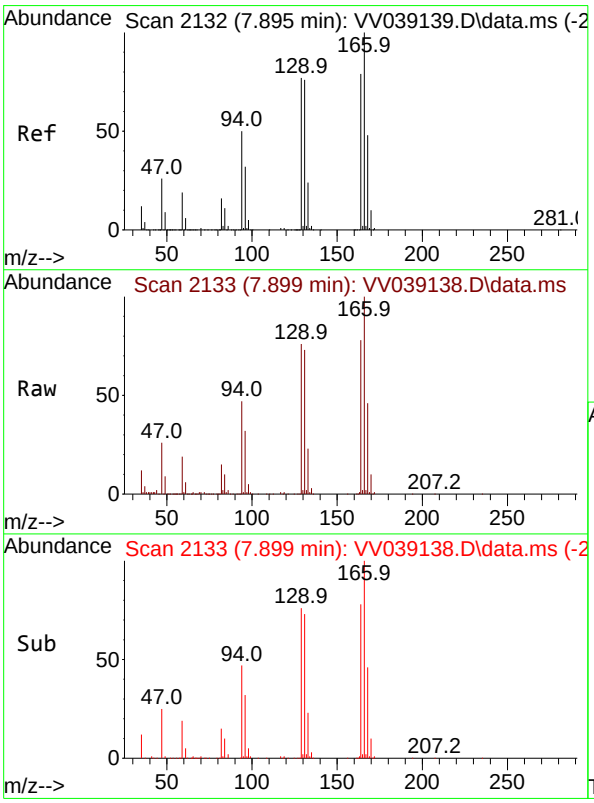
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 860340

Ion	Ratio	Lower	Upper
117	100		
82	56.1	45.4	68.2
119	31.5	25.6	38.4

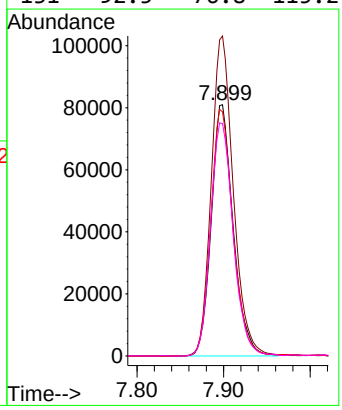


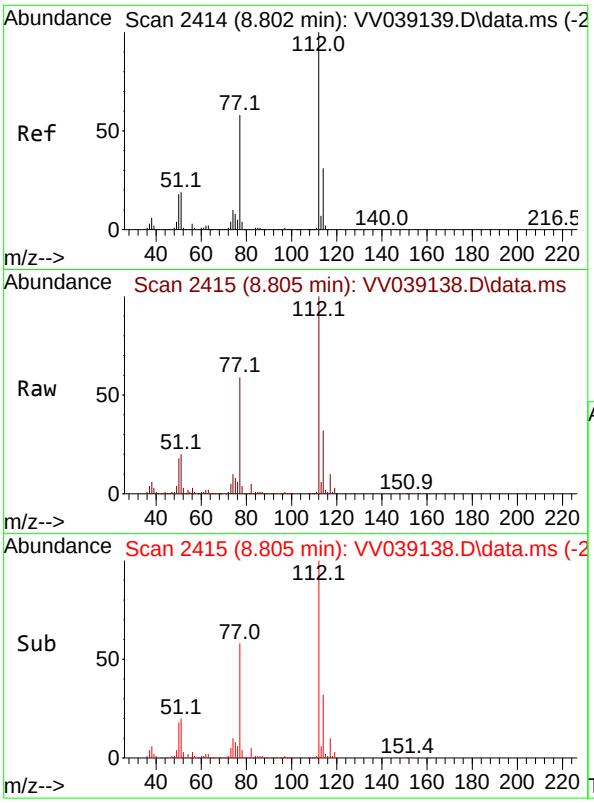


#64
Tetrachloroethene
Concen: 19.688 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:164 Resp: 141876

Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.6	152.4
129	97.2	78.5	117.7
131	92.5	76.8	115.2



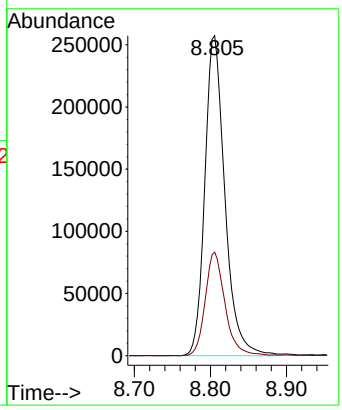


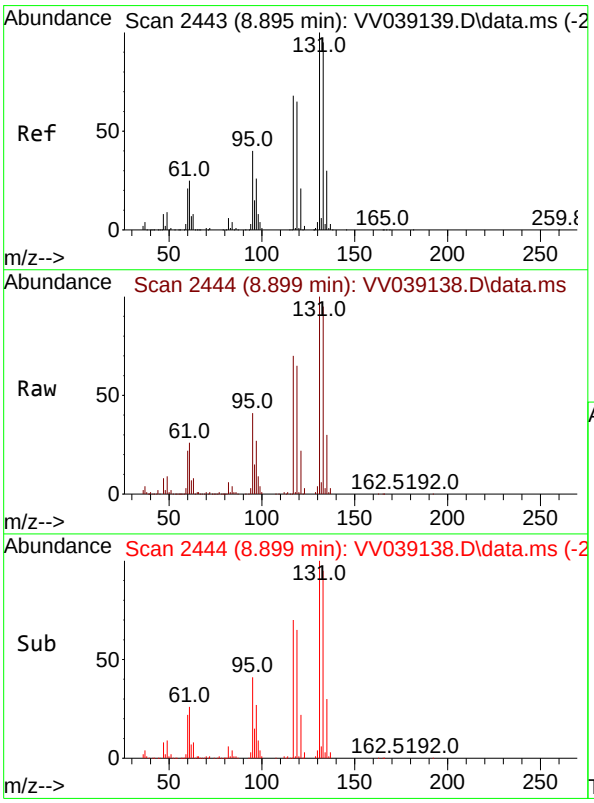
#65
Chlorobenzene
Concen: 19.648 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 470841

Ion	Ratio	Lower	Upper
112	100		
114	32.4	24.6	37.0

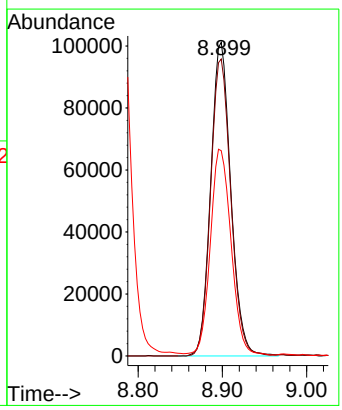


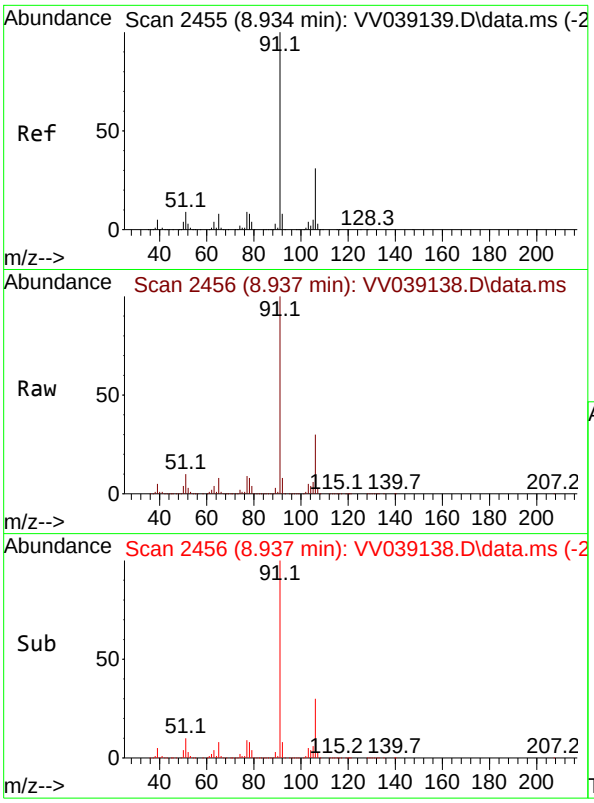


#66
1,1,1,2-Tetrachloroethane
Concen: 19.395 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:131 Resp: 167936

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	141.8
119	67.8	33.3	99.8



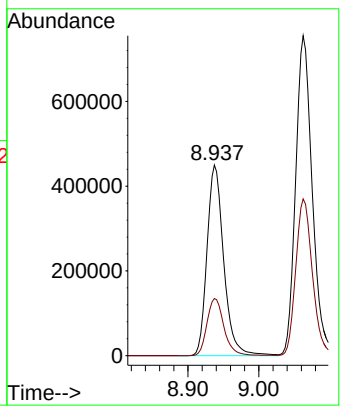


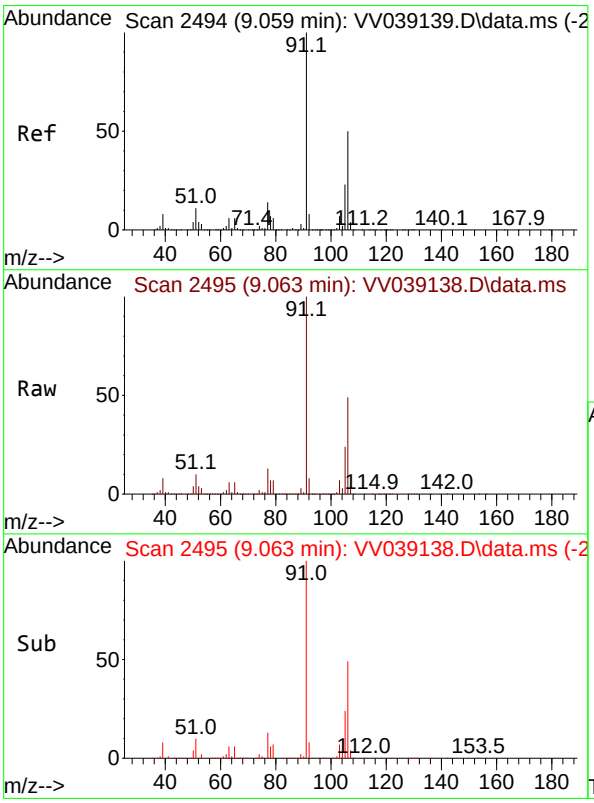
#67
Ethyl Benzene
Concen: 20.328 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 737391

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.6	37.0

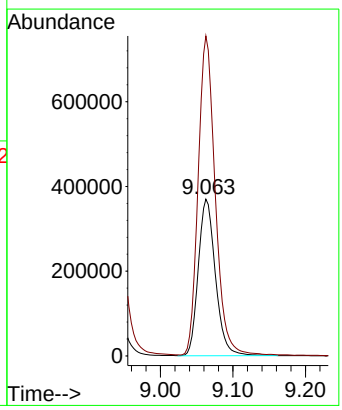


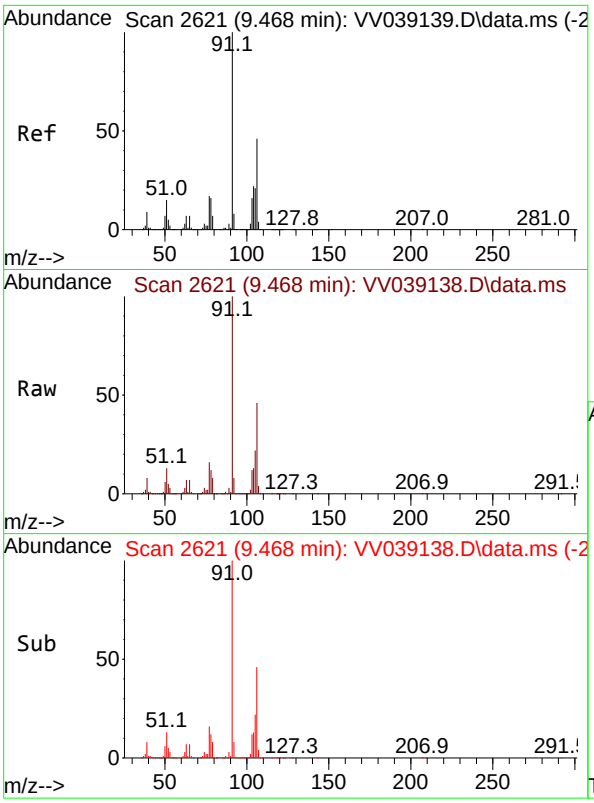


#68
m/p-Xylenes
Concen: 43.381 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:106 Resp: 607362

Ion	Ratio	Lower	Upper
106	100		
91	201.7	162.5	243.7



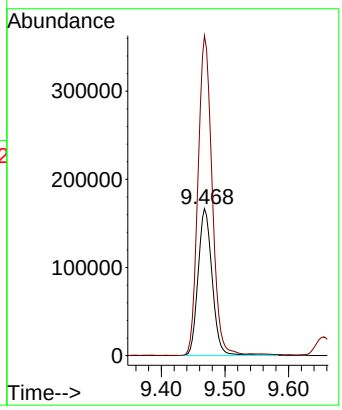


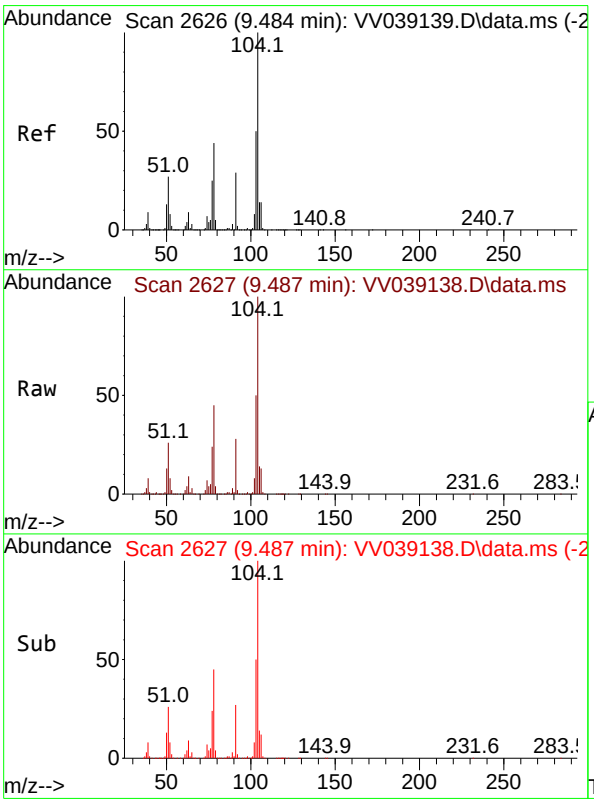
#69
o-Xylene
Concen: 20.587 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 255212

Ion	Ratio	Lower	Upper
106	100		
91	218.4	109.1	327.3

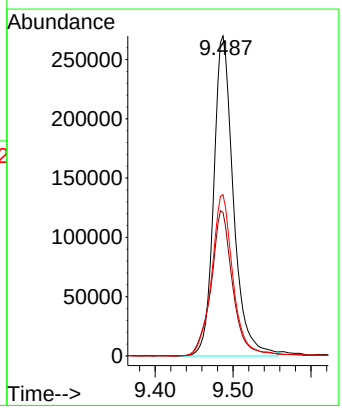


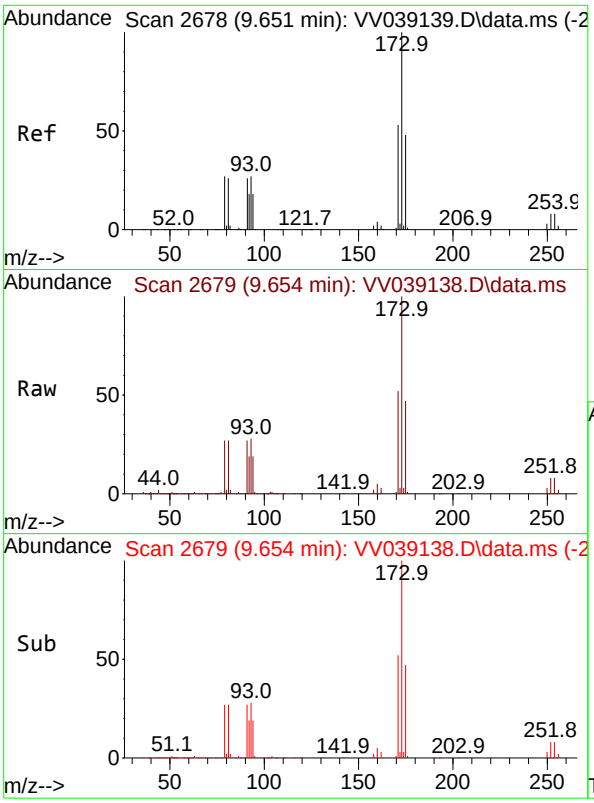


#70
Styrene
Concen: 19.022 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:104 Resp: 475382

Ion	Ratio	Lower	Upper
104	100		
78	50.0	39.8	59.6
103	55.1	43.4	65.2



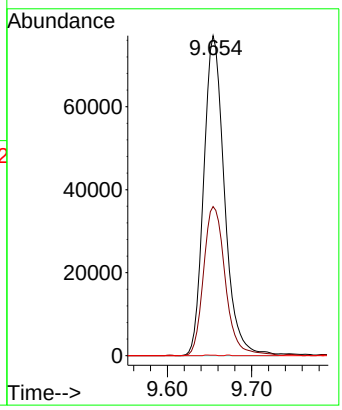


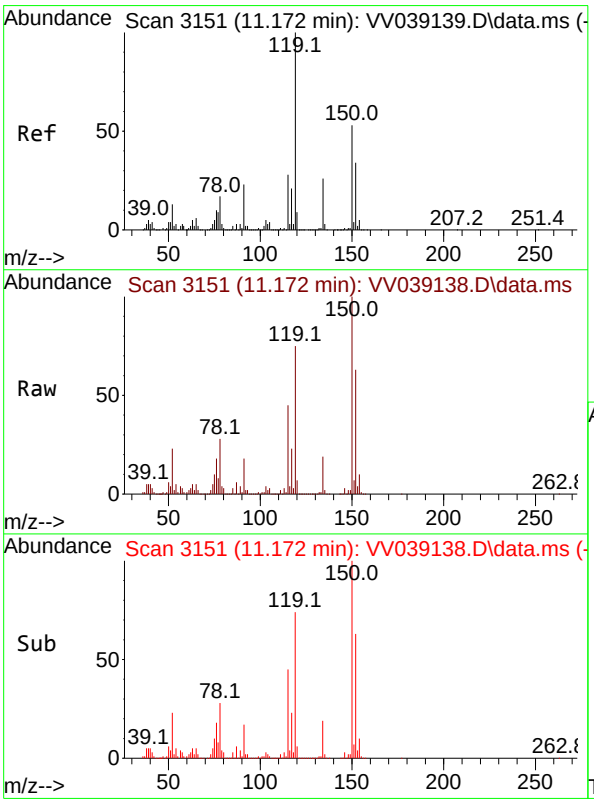
#71
Bromoform
Concen: 19.552 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 132242

Ion	Ratio	Lower	Upper
173	100		
175	48.9	23.9	71.7
254	0.1	0.1	0.1

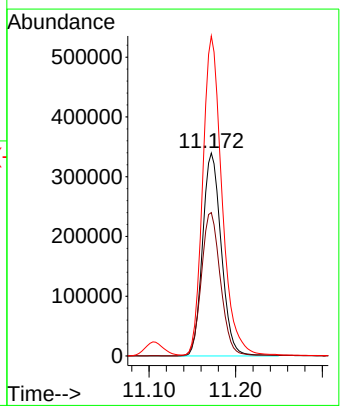


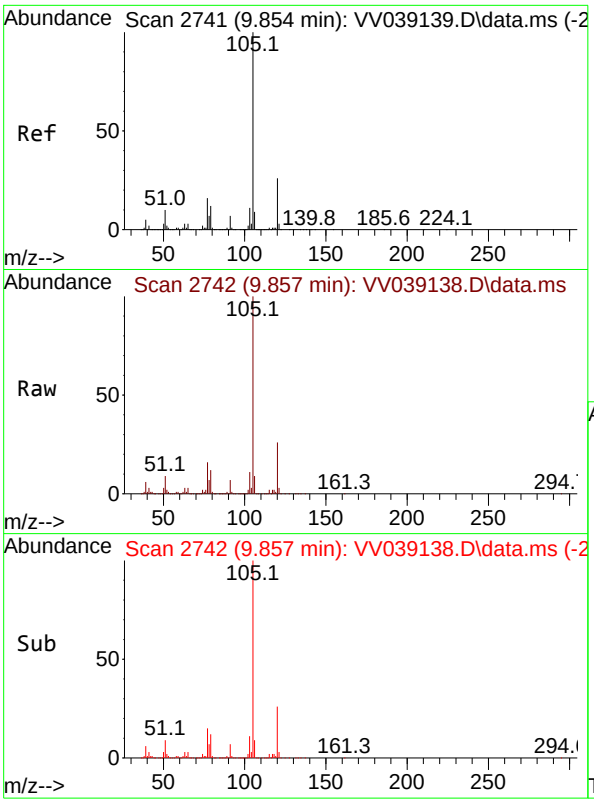


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:152 Resp: 509460

Ion	Ratio	Lower	Upper
152	100		
115	72.2	44.8	134.4
150	163.4	0.0	353.8



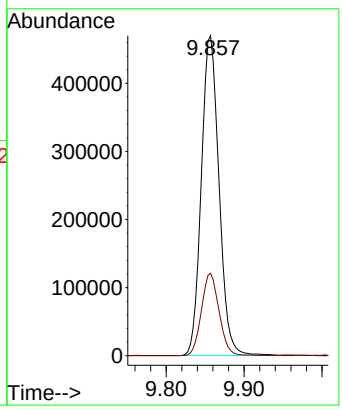


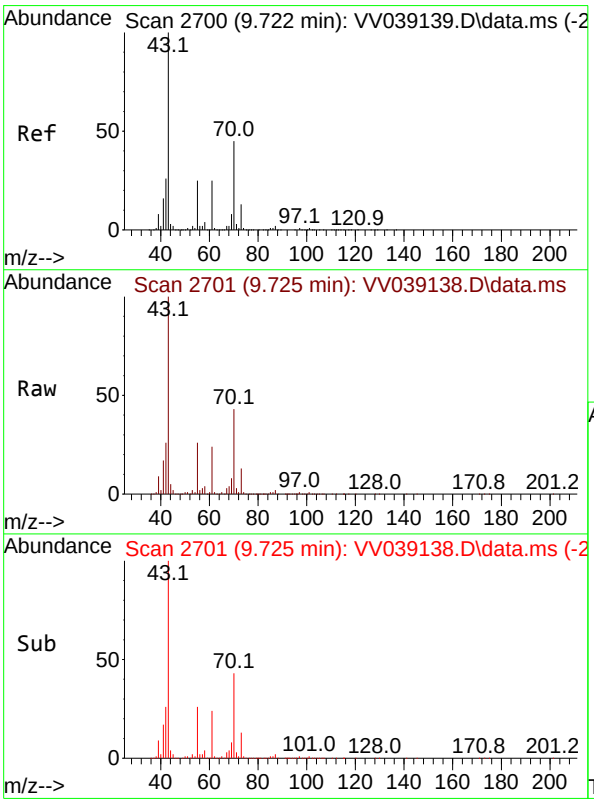
#73
Isopropylbenzene
Concen: 20.062 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 741305

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.1	39.1

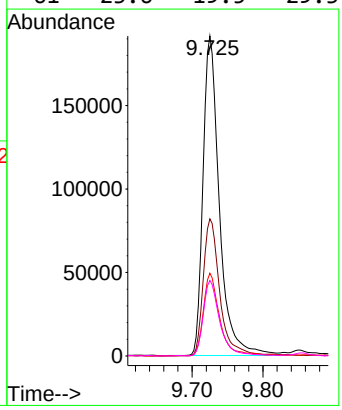


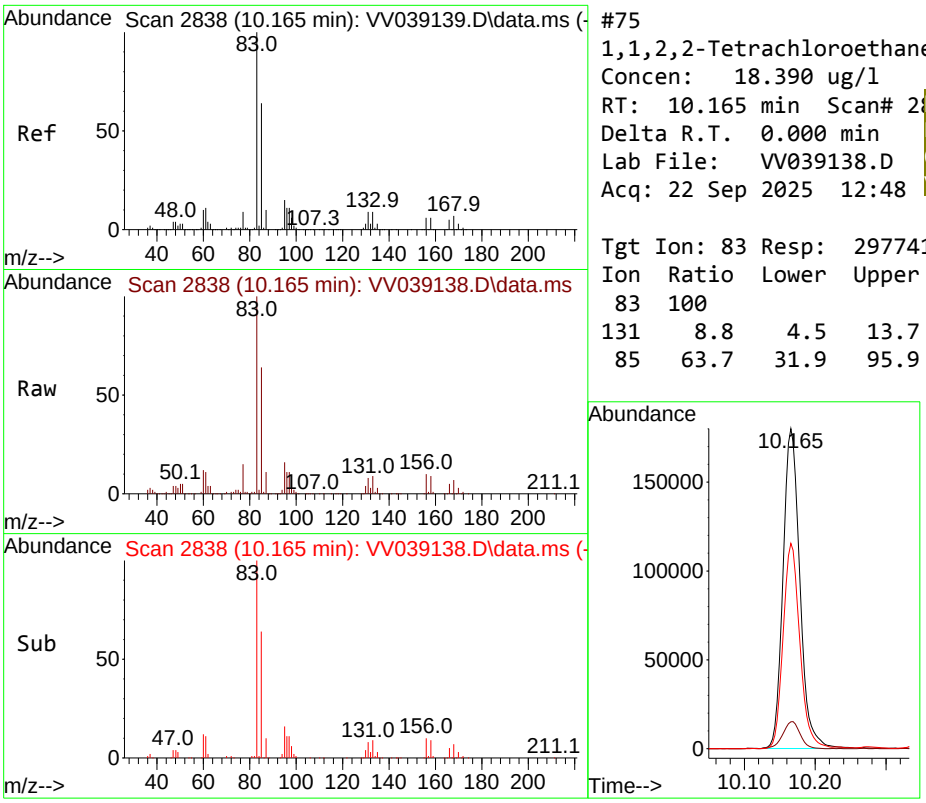


#74
N-amyl acetate
Concen: 20.826 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 306963

Ion	Ratio	Lower	Upper
43	100		
70	43.4	35.4	53.0
55	25.0	20.6	30.8
61	23.6	19.5	29.3



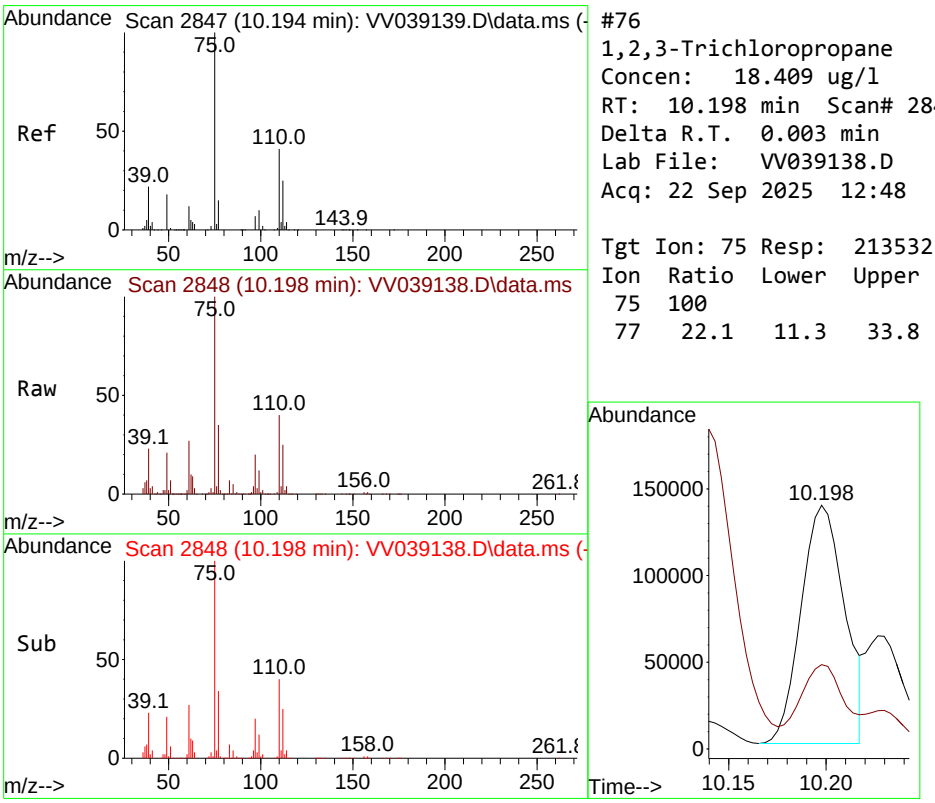


#75
1,1,2,2-Tetrachloroethane
Concen: 18.390 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 297741

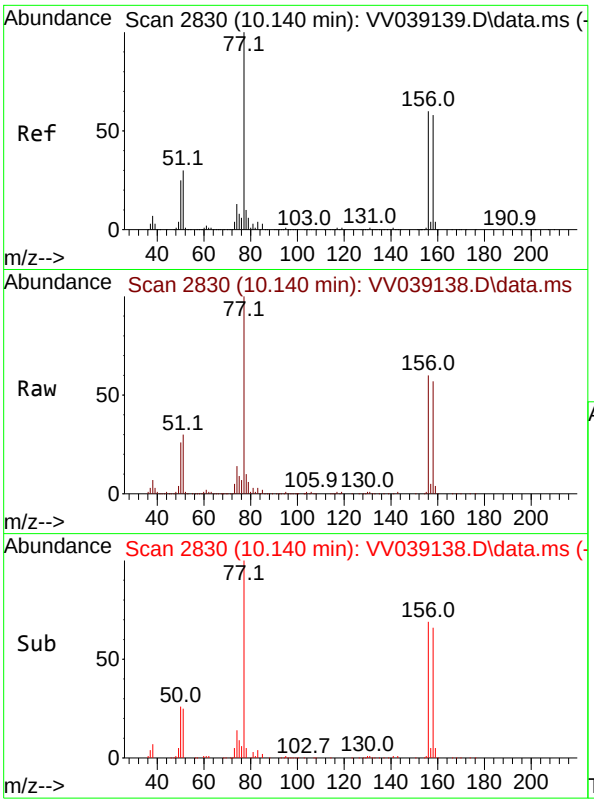
Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.7
85	63.7	31.9	95.9



#76
1,2,3-Trichloropropane
Concen: 18.409 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 213532

Ion	Ratio	Lower	Upper
75	100		
77	22.1	11.3	33.8

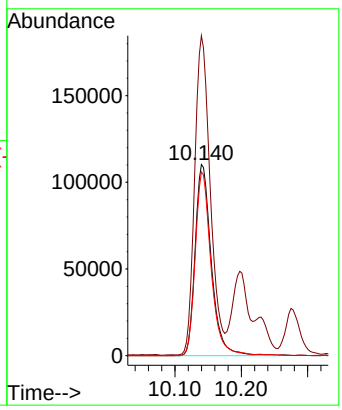


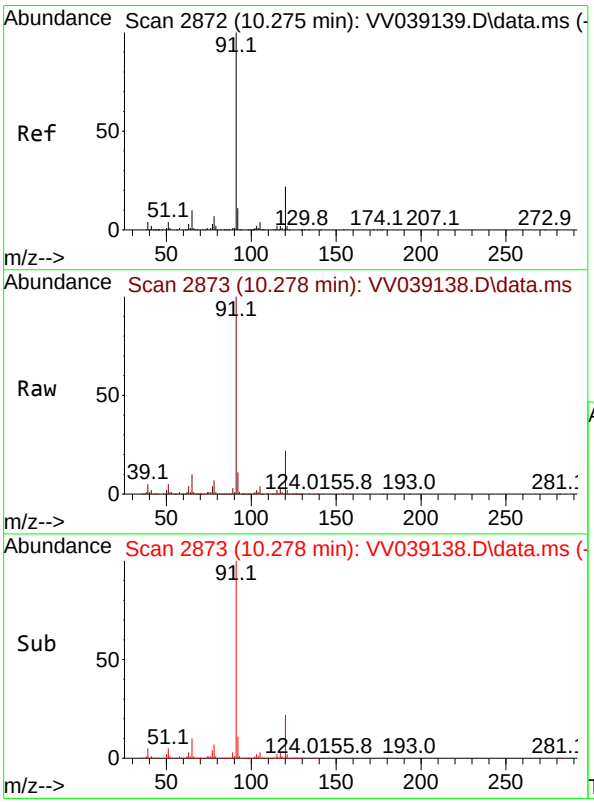
#77
Bromobenzene
Concen: 19.525 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 187188

Ion	Ratio	Lower	Upper
156	100		
77	160.4	83.4	250.1
158	93.6	48.8	146.4

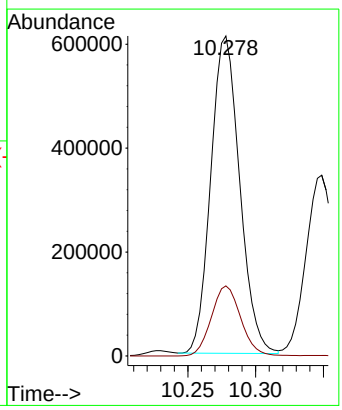


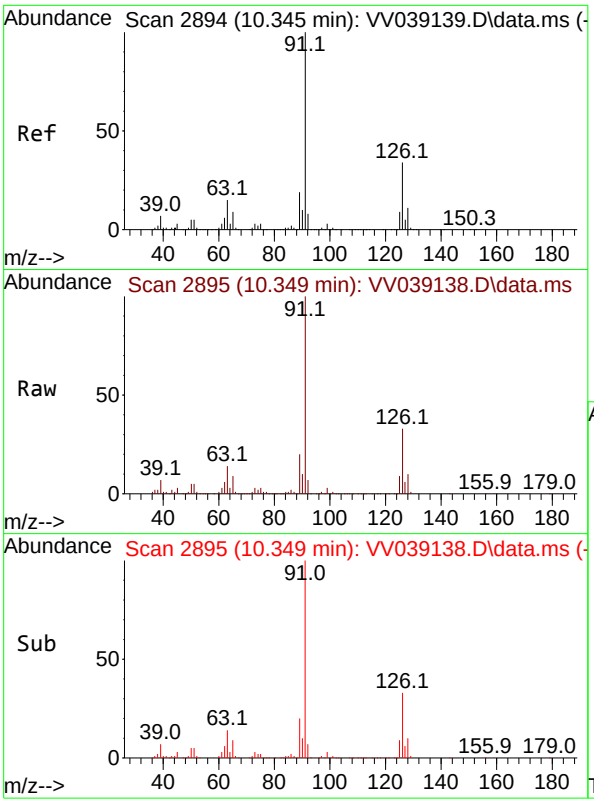


#78
n-propylbenzene
Concen: 20.118 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 91 Resp: 905281

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



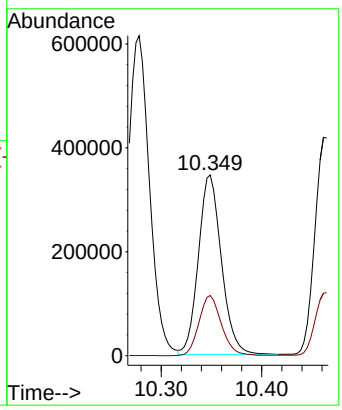


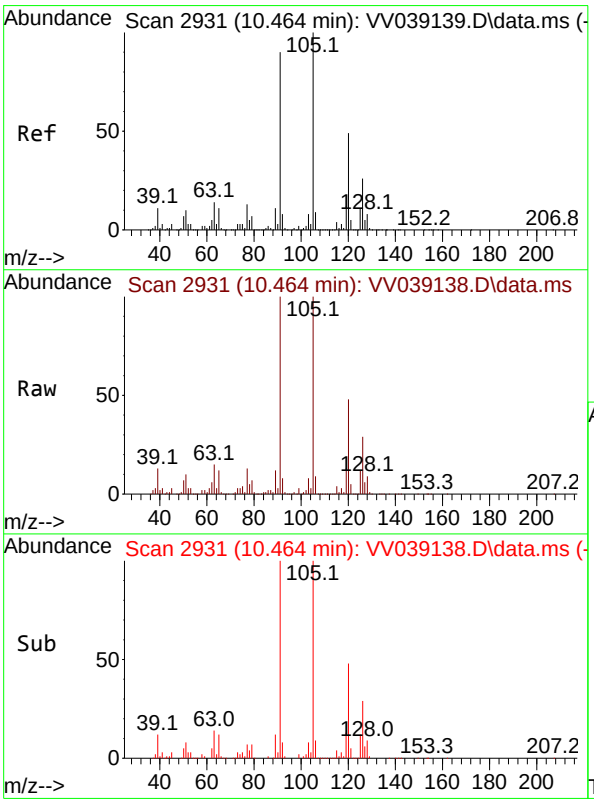
#79
2-Chlorotoluene
Concen: 20.346 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 547836

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.7	50.0

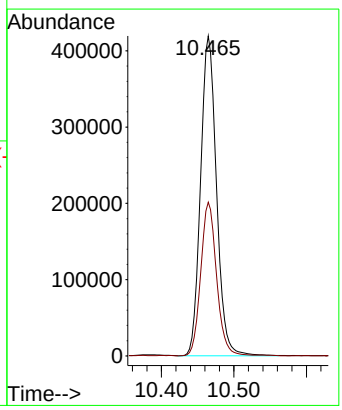


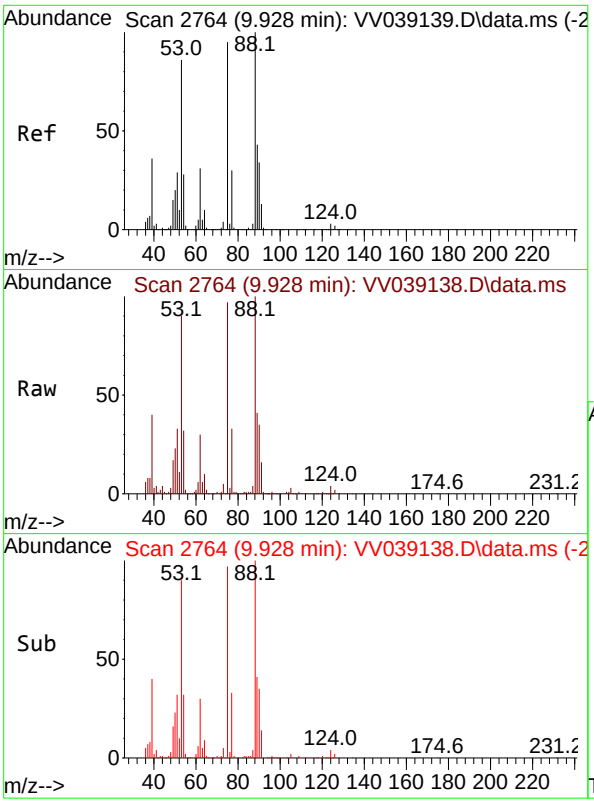


#80
1,3,5-Trimethylbenzene
Concen: 20.843 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:105 Resp: 640175

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.3	72.8



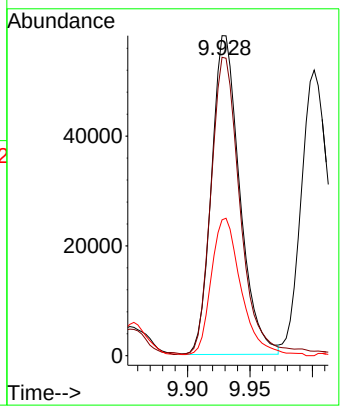


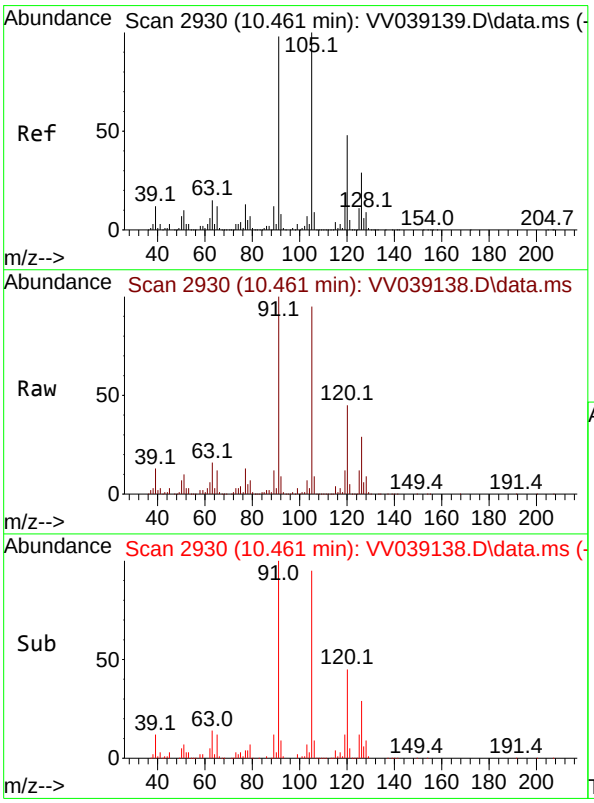
#81
trans-1,4-Dichloro-2-butene
Concen: 19.009 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 91848

Ion	Ratio	Lower	Upper
75	100		
53	95.8	72.5	108.7
89	45.7	37.2	55.8

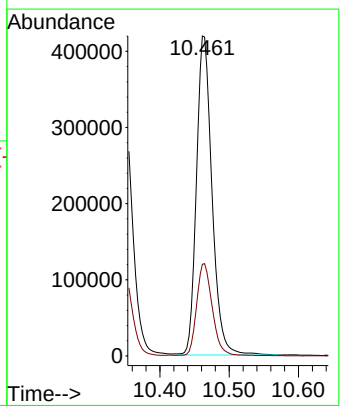


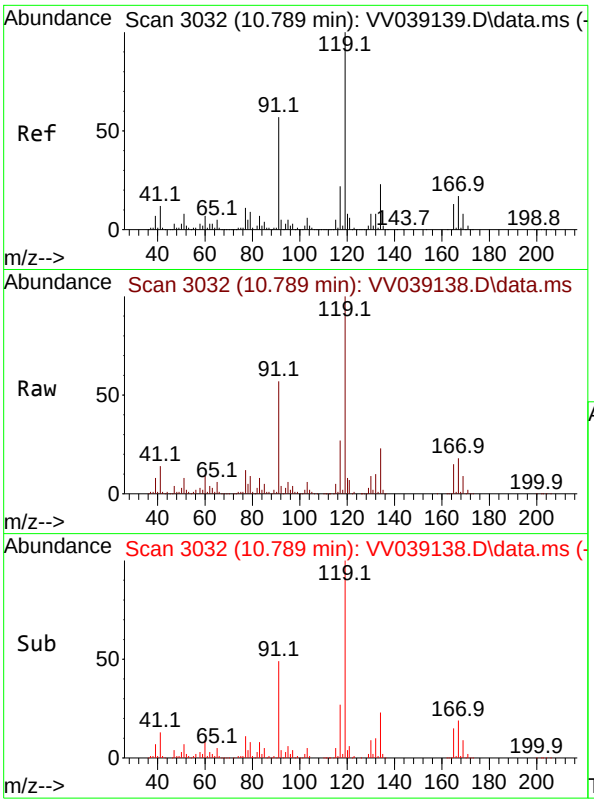


#82
4-Chlorotoluene
Concen: 20.993 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 91 Resp: 655427

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.5	43.6



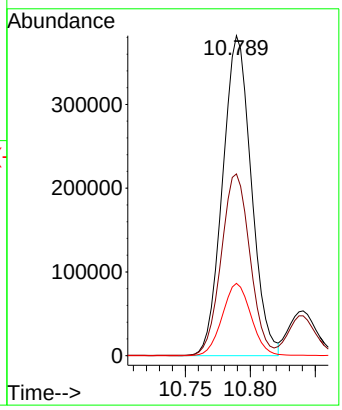


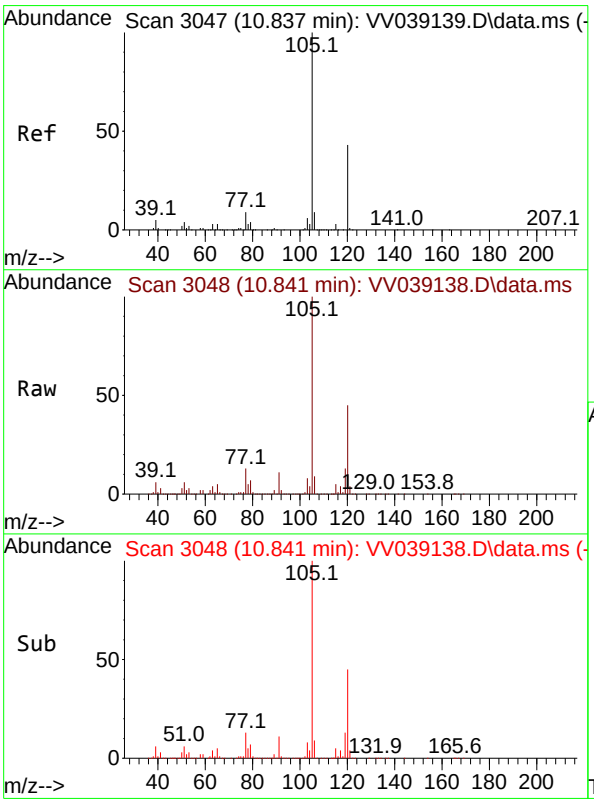
#83
tert-Butylbenzene
Concen: 19.172 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 587151

Ion	Ratio	Lower	Upper
119	100		
91	56.6	28.5	85.6
134	22.8	11.5	34.4

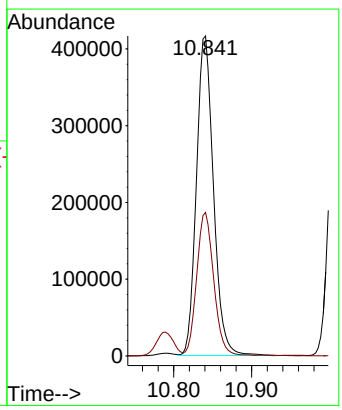


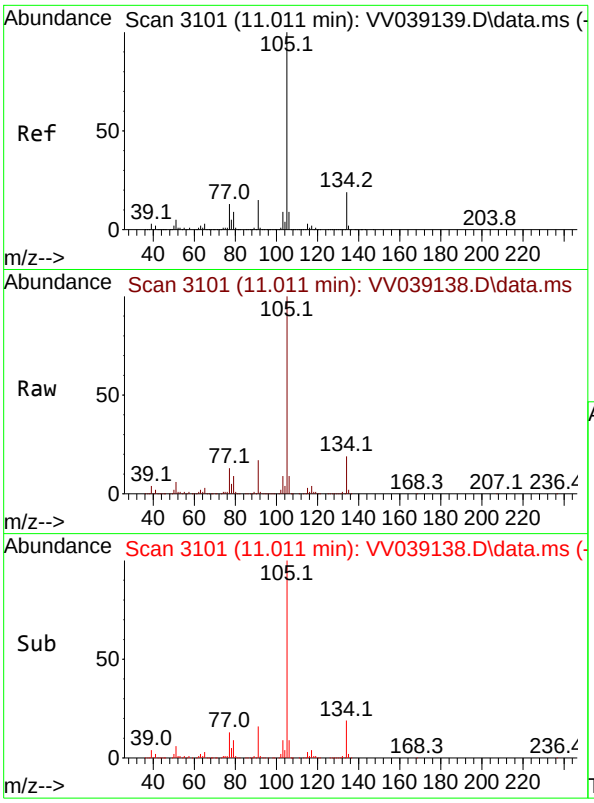


#84
1,2,4-Trimethylbenzene
Concen: 21.185 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:105 Resp: 631679

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.4	67.2



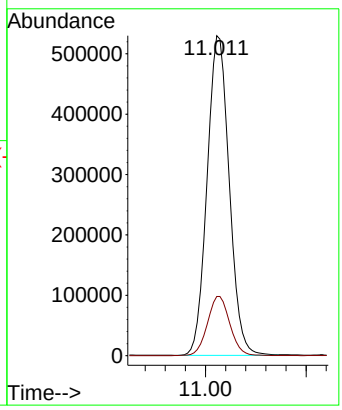


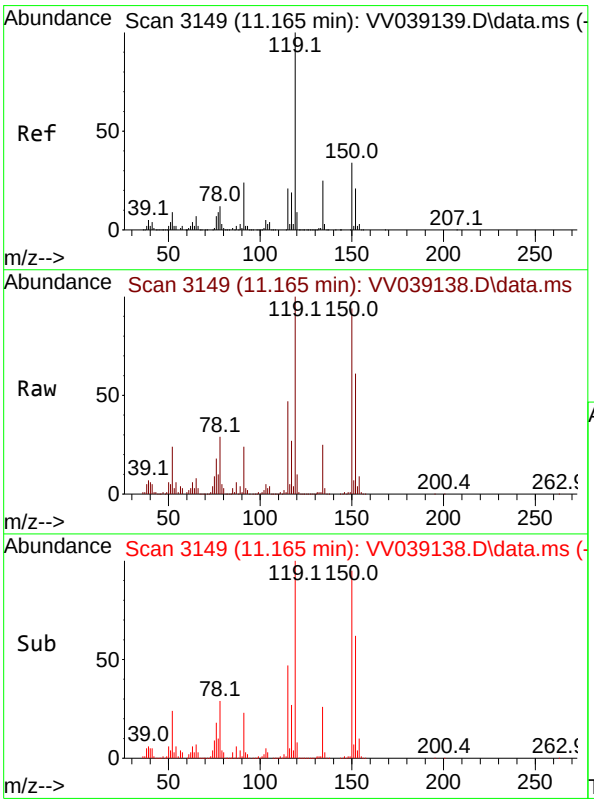
#85
sec-Butylbenzene
Concen: 19.912 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 808869

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.6	28.8

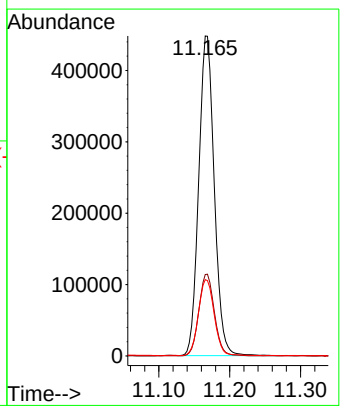


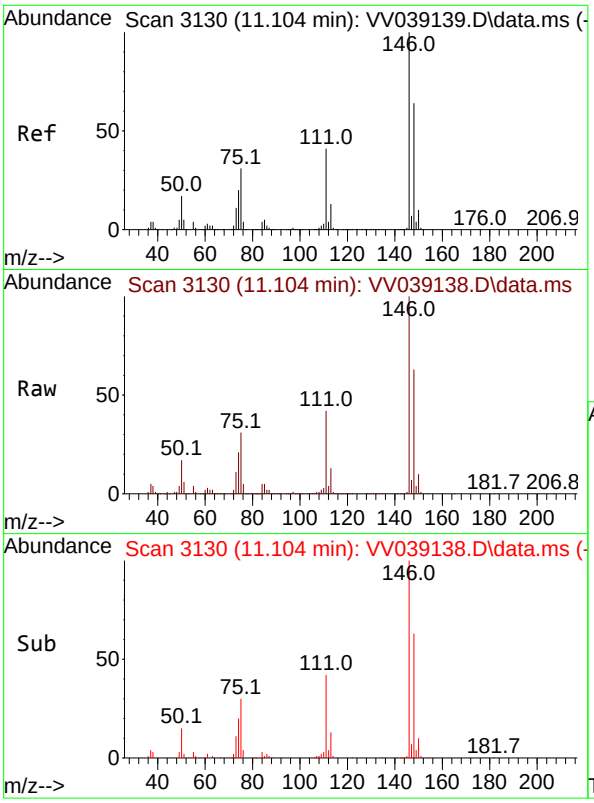


#86
p-Isopropyltoluene
Concen: 20.196 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:119 Resp: 682814

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.7	38.0
91	24.1	12.0	36.1



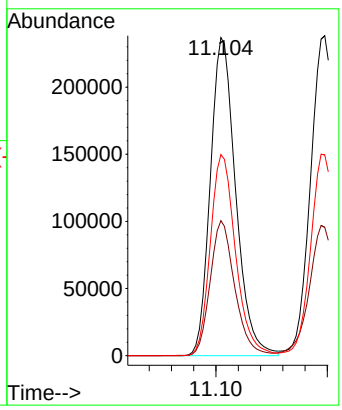


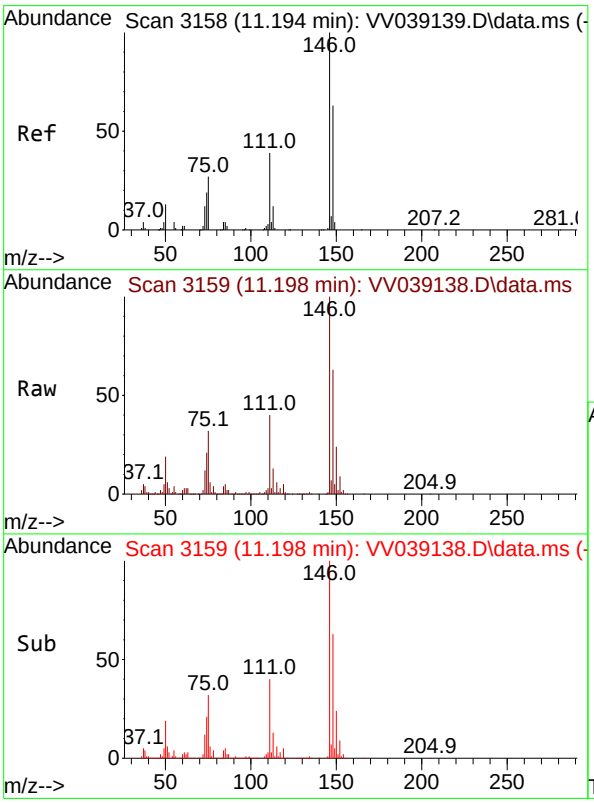
#87
1,3-Dichlorobenzene
Concen: 19.287 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 374208

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.9	62.8
148	63.1	31.8	95.3

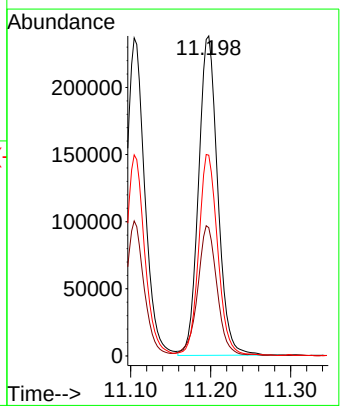


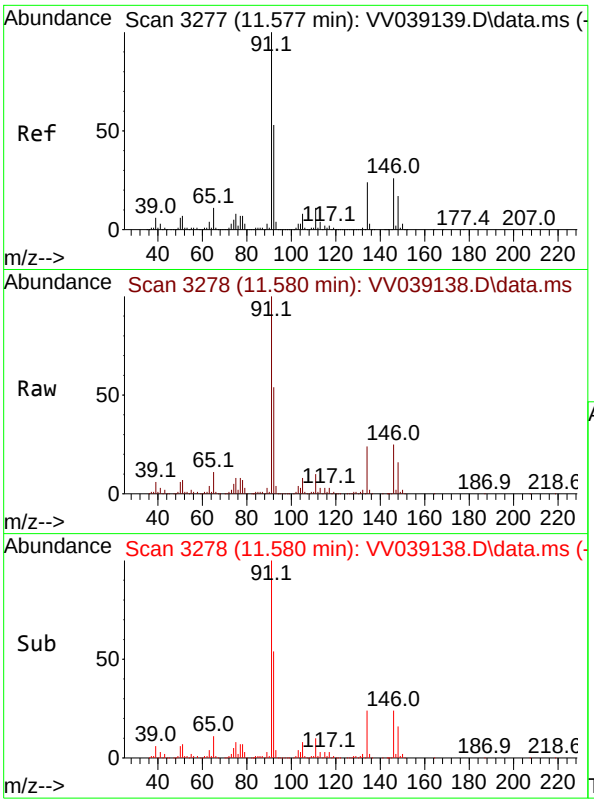


#88
1,4-Dichlorobenzene
Concen: 18.539 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:146 Resp: 397526

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.3	60.8
148	62.8	31.4	94.2



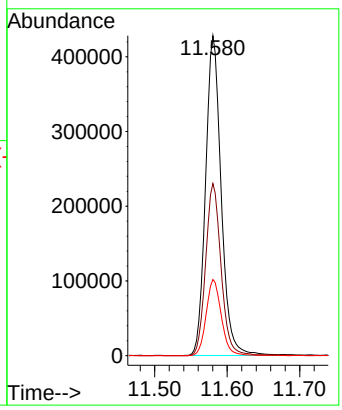


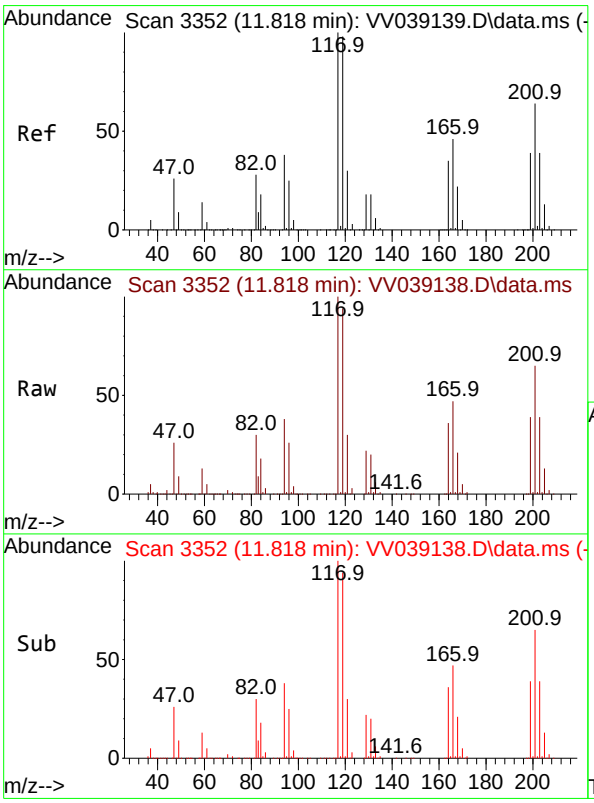
#89
n-Butylbenzene
Concen: 19.822 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 640044

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.6	79.8
134	23.1	12.1	36.3

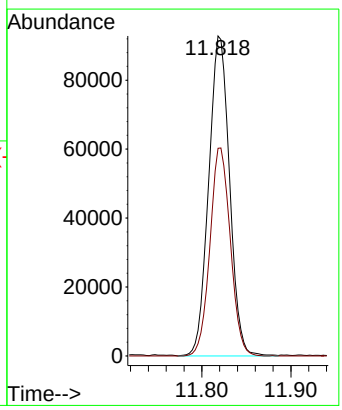


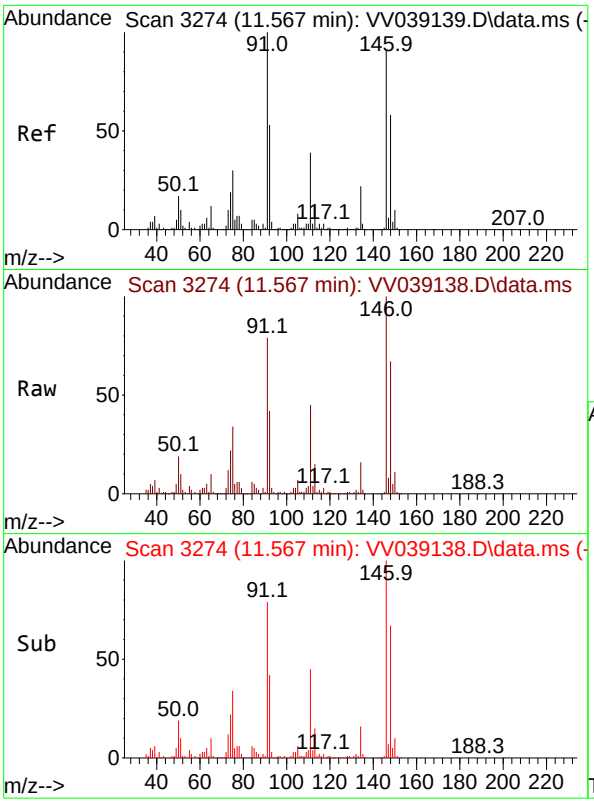


#90
Hexachloroethane
Concen: 18.118 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:117 Resp: 150843

Ion	Ratio	Lower	Upper
117	100		
201	63.5	32.3	96.8



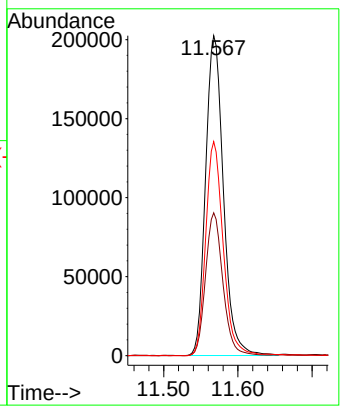


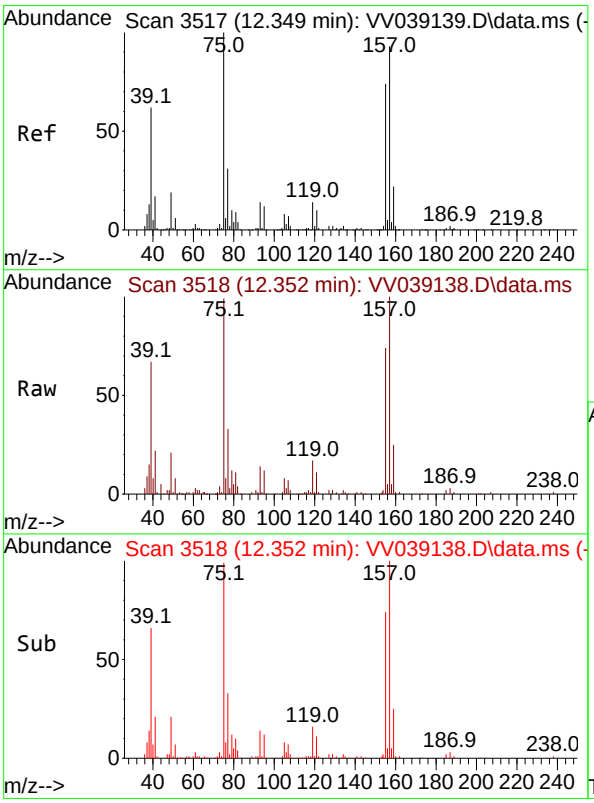
#91
1,2-Dichlorobenzene
Concen: 18.567 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 336566

Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.5	64.5
148	65.5	31.9	95.7

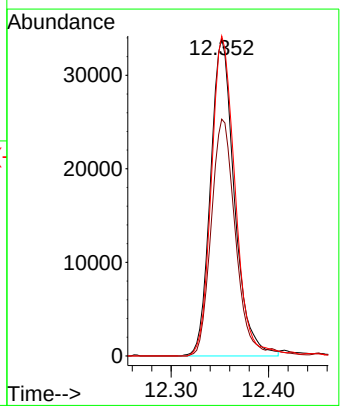


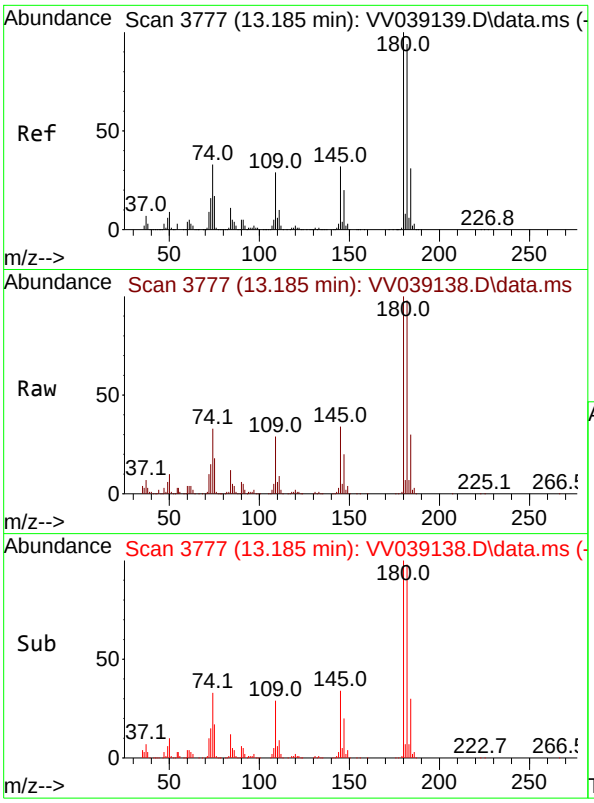


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.989 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 57671

Ion	Ratio	Lower	Upper
75	100		
155	74.8	38.6	115.8
157	100.1	49.5	148.3



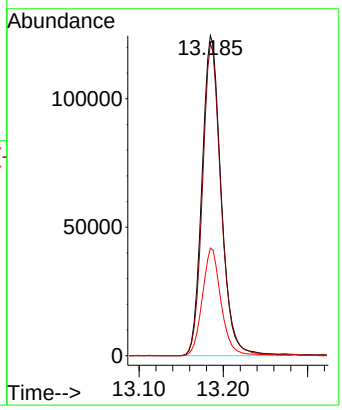


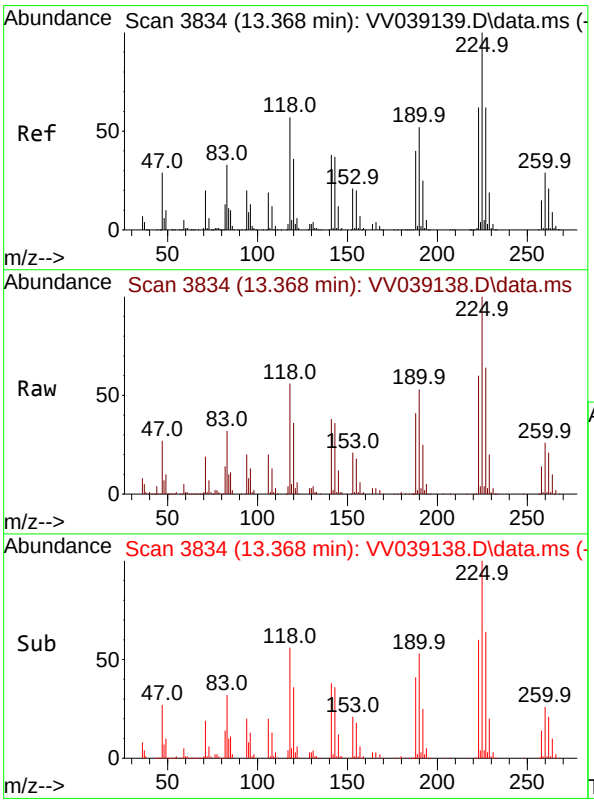
#93
1,2,4-Trichlorobenzene
Concen: 18.894 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 196334

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.1	141.4
145	33.1	16.3	48.8

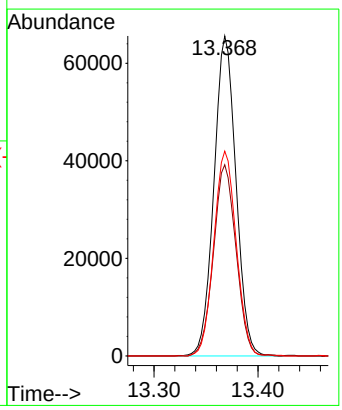


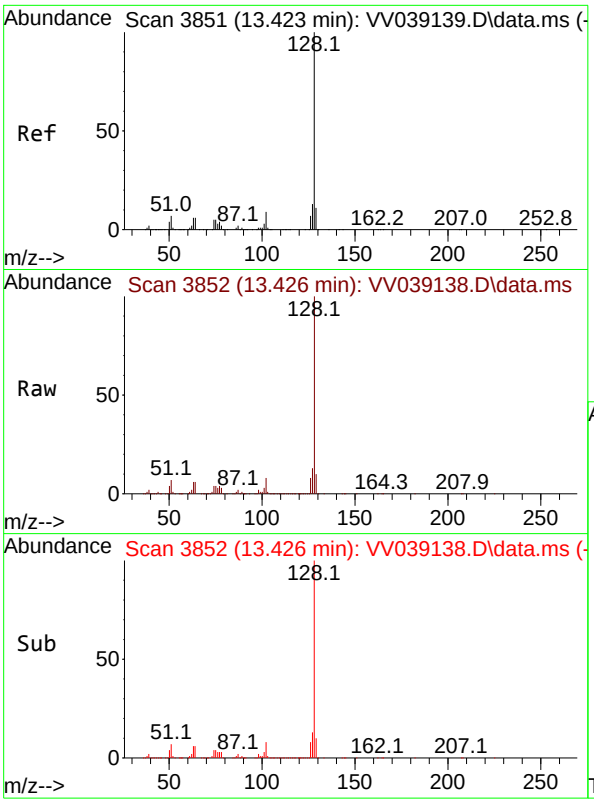


#94
Hexachlorobutadiene
Concen: 17.893 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:225 Resp: 96610

Ion	Ratio	Lower	Upper
225	100		
223	61.1	31.6	94.7
227	65.1	31.8	95.4



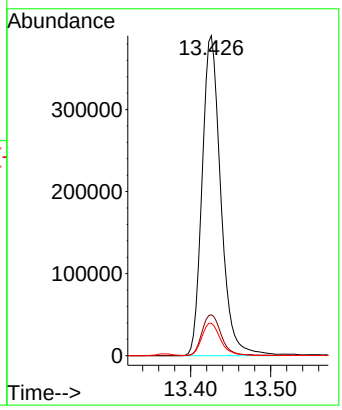


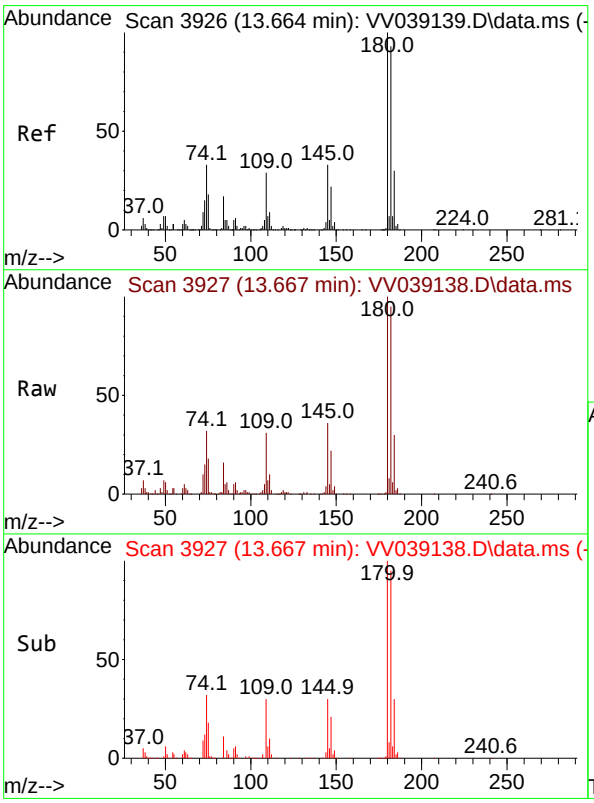
#95
Naphthalene
Concen: 18.986 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 634557

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.3	15.5
129	10.1	8.6	13.0

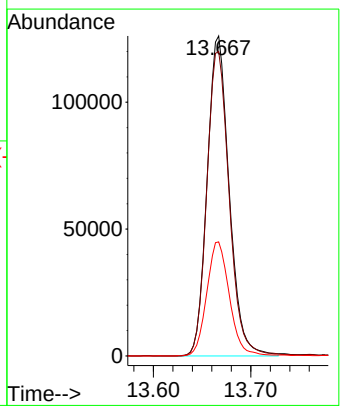




#96
1,2,3-Trichlorobenzene
Concen: 18.659 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:180 Resp: 198308

Ion	Ratio	Lower	Upper
180	100		
182	96.9	46.9	140.8
145	36.6	17.0	51.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.597	168	563410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	894173	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	863906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	516167	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	363821	44.618	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 89.240%			
35) Dibromofluoromethane	4.497	113	337386	46.935	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 93.860%			
50) Toluene-d8	7.233	98	1016135	48.130	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 96.260%			
62) 4-Bromofluorobenzene	9.998	95	453081	52.130	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 104.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	416798	46.733	ug/l	100
3) Chloromethane	1.230	50	433999	45.329	ug/l	100
4) Vinyl Chloride	1.298	62	470936	45.944	ug/l	100
5) Bromomethane	1.494	94	286332	44.312	ug/l	100
6) Chloroethane	1.558	64	300232	49.734	ug/l	100
7) Trichlorofluoromethane	1.725	101	672325	45.304	ug/l	100
8) Diethyl Ether	1.918	74	251813	45.707	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.082	101	395615	44.803	ug/l	100
10) Methyl Iodide	2.195	142	442822	52.662	ug/l	100
11) Tert butyl alcohol	2.564	59	385746	223.826	ug/l	100
12) 1,1-Dichloroethene	2.082	96	379710	44.700	ug/l	100
13) Acrolein	2.008	56	74486	249.076	ug/l	100
14) Allyl chloride	2.355	41	700342	46.154	ug/l	100
15) Acrylonitrile	2.671	53	1228907	222.439	ug/l	100
16) Acetone	2.118	43	1265424	251.263	ug/l	100
17) Carbon Disulfide	2.253	76	1172348	45.126	ug/l	100
18) Methyl Acetate	2.378	43	553676	45.827	ug/l	100
19) Methyl tert-butyl Ether	2.709	73	1258060	46.476	ug/l	100
20) Methylene Chloride	2.455	84	439142	49.828	ug/l	100
21) trans-1,2-Dichloroethene	2.699	96	407938	45.109	ug/l	100
22) Diisopropyl ether	3.214	45	1419527	48.895	ug/l	100
23) Vinyl Acetate	3.185	43	6209687	244.506	ug/l	100
24) 1,1-Dichloroethane	3.114	63	781832	44.037	ug/l	100
25) 2-Butanone	3.860	43	1650213	257.105	ug/l	100
26) 2,2-Dichloropropane	3.806	77	698283	44.534	ug/l	100
27) cis-1,2-Dichloroethene	3.818	96	488972	49.026	ug/l	100
28) Bromochloromethane	4.143	49	382640	48.820	ug/l	100
29) Tetrahydrofuran	4.230	42	1039169	254.258	ug/l	100
30) Chloroform	4.275	83	839217	45.268	ug/l	100
31) Cyclohexane	4.580	56	701482	48.232	ug/l	100
32) 1,1,1-Trichloroethane	4.510	97	731030	45.547	ug/l	100
36) 1,1-Dichloropropene	4.741	75	554798	50.680	ug/l	100
37) Ethyl Acetate	3.970	43	638131	47.519	ug/l	100
38) Carbon Tetrachloride	4.732	117	628516	47.666	ug/l	100
39) Methylcyclohexane	6.043	83	736231	56.095	ug/l	100
40) Benzene	5.005	78	1779301	50.276	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.153	41	295316	49.541	ug/l	100
42) 1,2-Dichloroethane	5.037	62	595216	48.000	ug/l	100
43) Isopropyl Acetate	5.188	43	956288	51.691	ug/l	100
44) Trichloroethene	5.828	130	414171	50.715	ug/l	100
45) 1,2-Dichloropropane	6.085	63	448750	51.014	ug/l	100
46) Dibromomethane	6.220	93	329073	48.876	ug/l	100
47) Bromodichloromethane	6.423	83	673646	48.398	ug/l	100
48) Methyl methacrylate	6.291	41	450230	53.193	ug/l	100
49) 1,4-Dioxane	6.288	88	133834	1006.069	ug/l	100
51) 4-Methyl-2-Pentanone	7.146	43	3273840	276.753	ug/l	100
52) Toluene	7.304	92	1099325	53.574	ug/l	100
53) t-1,3-Dichloropropene	7.571	75	650976	53.666	ug/l	100
54) cis-1,3-Dichloropropene	6.944	75	725015	54.142	ug/l	100
55) 1,1,2-Trichloroethane	7.757	97	441822	48.020	ug/l	100
56) Ethyl methacrylate	7.712	69	640636	58.632	ug/l	100
57) 1,3-Dichloropropane	7.931	76	733341	50.505	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.809	63	1579407	255.700	ug/l	100
59) 2-Hexanone	8.059	43	2441880	255.630	ug/l	100
60) Dibromochloromethane	8.165	129	507043	48.365	ug/l	100
61) 1,2-Dibromoethane	8.272	107	473037	50.273	ug/l	100
64) Tetrachloroethene	7.895	164	356209	49.227	ug/l	100
65) Chlorobenzene	8.802	112	1194769	49.651	ug/l	100
66) 1,1,1,2-Tetrachloroethane	8.895	131	421762	48.507	ug/l	100
67) Ethyl Benzene	8.934	91	2057558	56.487	ug/l	100
68) m/p-Xylenes	9.059	106	1639130	116.591	ug/l	100
69) o-Xylene	9.468	106	730558	58.688	ug/l	100
70) Styrene	9.484	104	1341298	50.845	ug/l	100
71) Bromoform	9.651	173	341871	50.337	ug/l	100
73) Isopropylbenzene	9.854	105	2033373	54.313	ug/l	100
74) N-amyl acetate	9.722	43	863632	57.833	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.165	83	735590	44.844	ug/l	100
76) 1,2,3-Trichloropropane	10.194	75	541552	46.080	ug/l	100
77) Bromobenzene	10.140	156	477608	49.171	ug/l	100
78) n-propylbenzene	10.275	91	2528458	55.461	ug/l	100
79) 2-Chlorotoluene	10.345	91	1462530	53.612	ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	1748435	56.188	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.928	75	255259	52.143	ug/l	100
82) 4-Chlorotoluene	10.461	91	1722899	54.466	ug/l	100
83) tert-Butylbenzene	10.789	119	1663245	53.602	ug/l	100
84) 1,2,4-Trimethylbenzene	10.837	105	1743425	57.709	ug/l	100
85) sec-Butylbenzene	11.011	105	2252781	54.737	ug/l	100
86) p-Isopropyltoluene	11.165	119	1900412	55.479	ug/l	100
87) 1,3-Dichlorobenzene	11.104	146	958701	48.769	ug/l	100
88) 1,4-Dichlorobenzene	11.194	146	998426	45.957	ug/l	100
89) n-Butylbenzene	11.577	91	1864844	57.003	ug/l	100
90) Hexachloroethane	11.818	117	375818	44.553	ug/l	100
91) 1,2-Dichlorobenzene	11.567	146	897135	48.848	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.349	75	147329	49.928	ug/l	100
93) 1,2,4-Trichlorobenzene	13.185	180	555323	52.747	ug/l	100
94) Hexachlorobutadiene	13.368	225	247695	45.279	ug/l	100
95) Naphthalene	13.423	128	1968567	58.135	ug/l	100
96) 1,2,3-Trichlorobenzene	13.664	180	571563	53.081	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

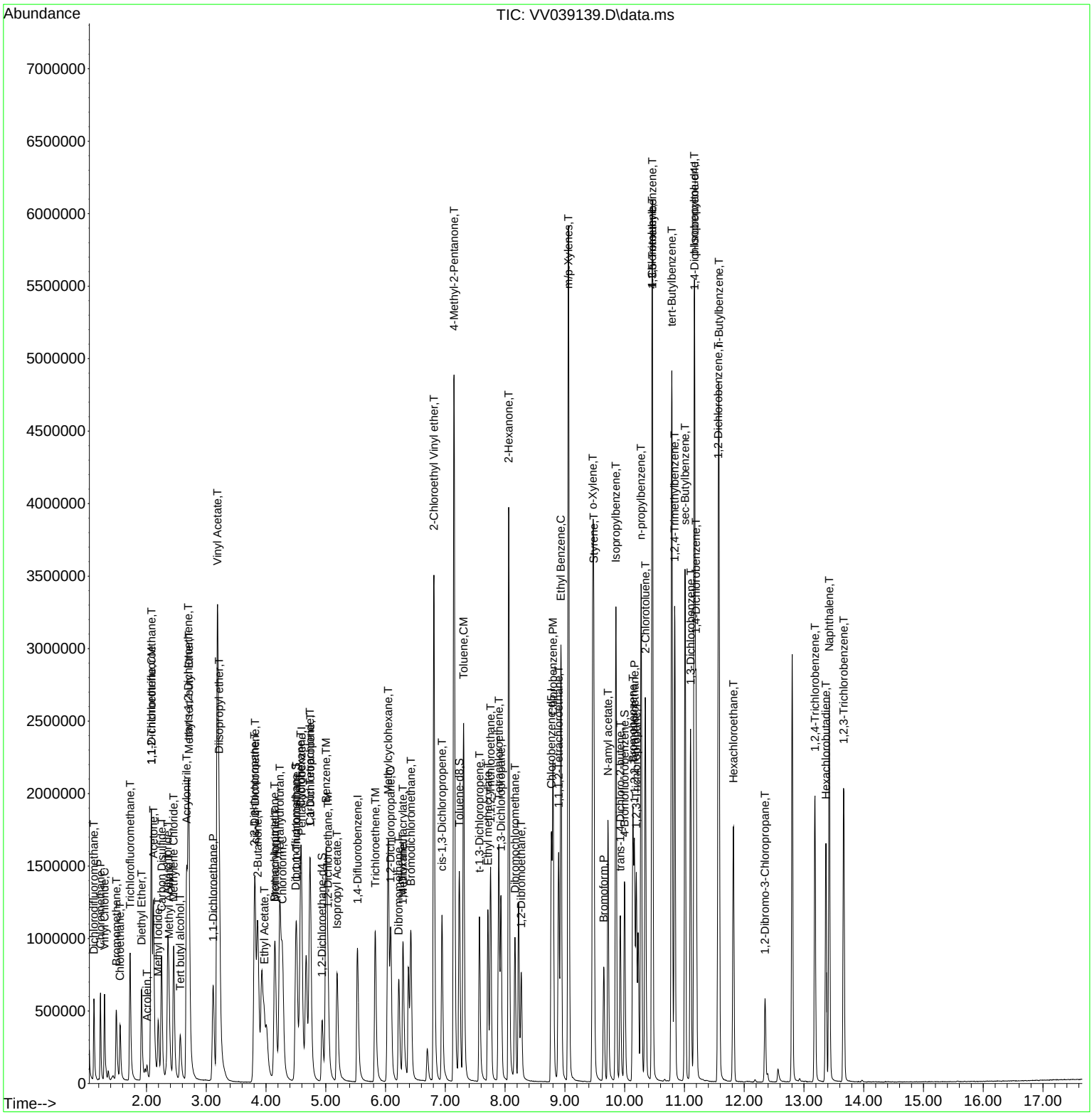
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

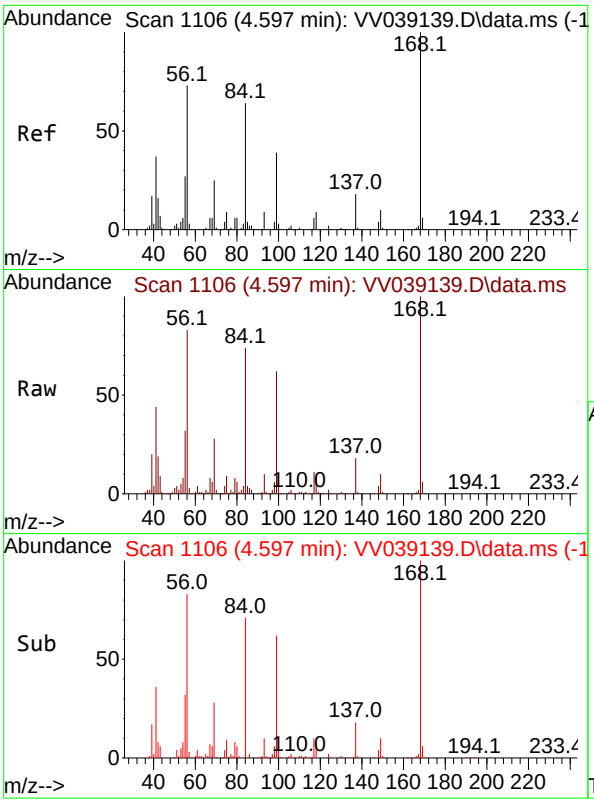
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



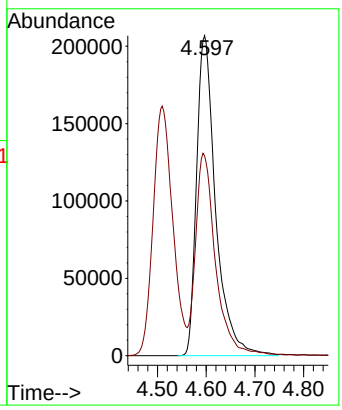


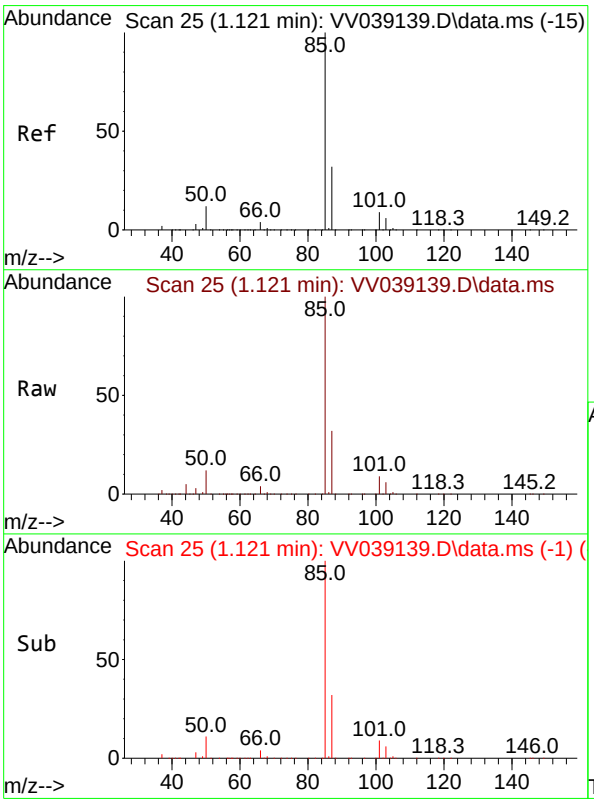
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 563410

Ion	Ratio	Lower	Upper
168	100		
99	62.0	49.6	74.4

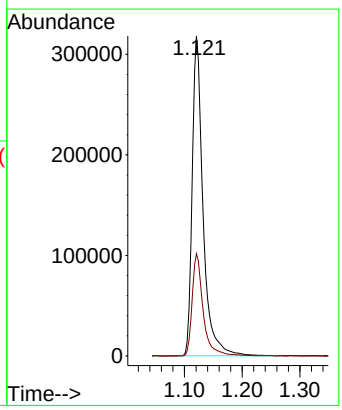


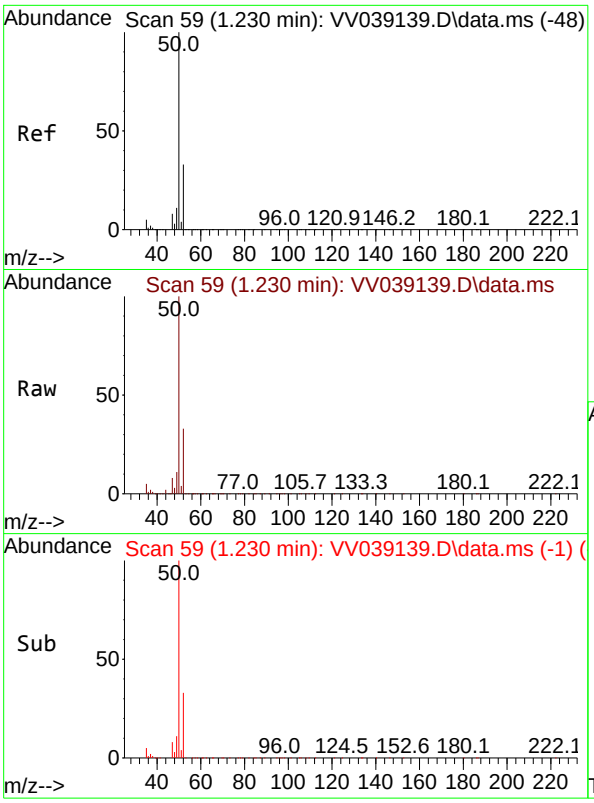


#2
Dichlorodifluoromethane
Concen: 46.733 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 85 Resp: 416798

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.0	47.9



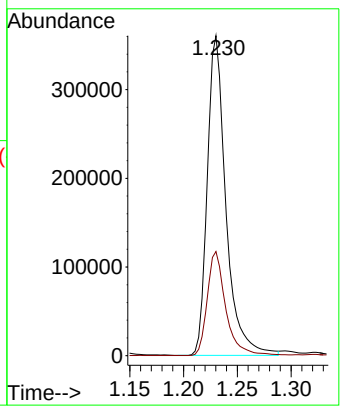


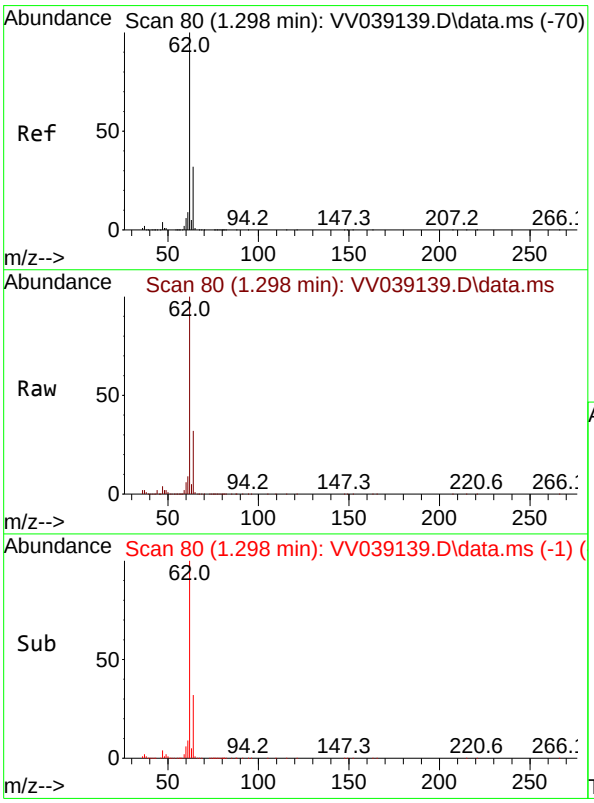
#3
Chloromethane
Concen: 45.329 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 433999

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

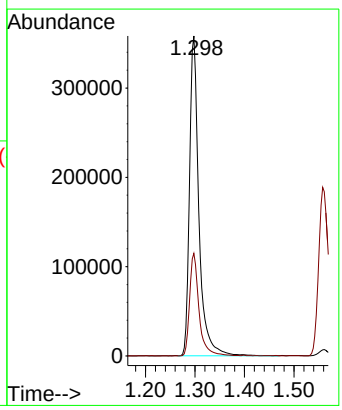


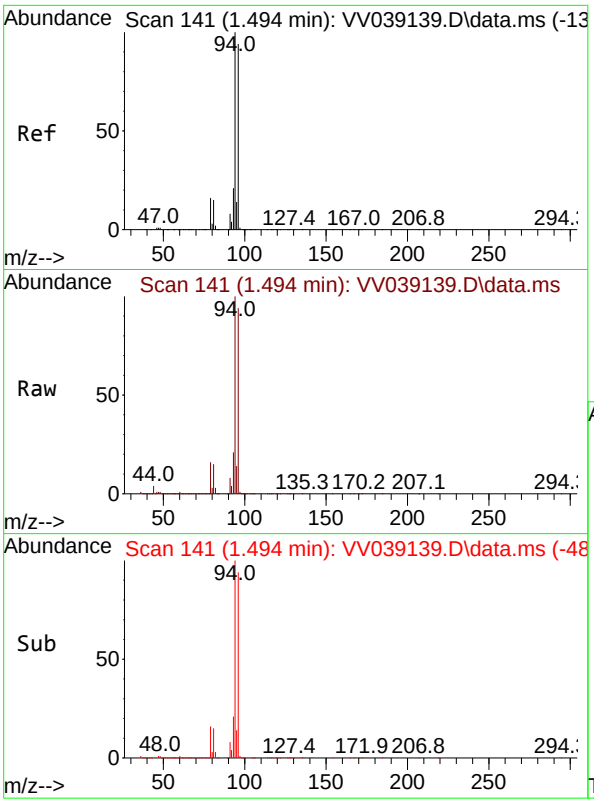


#4
Vinyl Chloride
Concen: 45.944 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 62 Resp: 470936

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.6	38.4



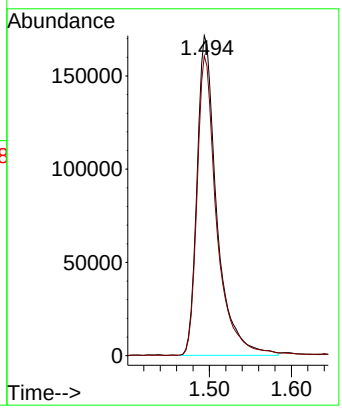


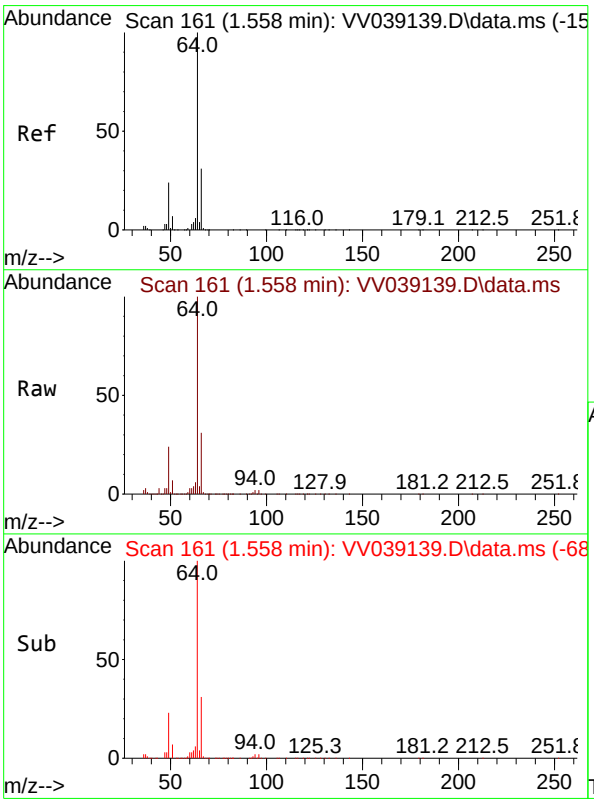
#5
Bromomethane
Concen: 44.312 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 286332

Ion	Ratio	Lower	Upper
94	100		
96	93.6	74.9	112.3

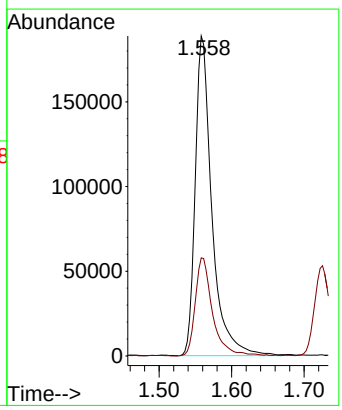


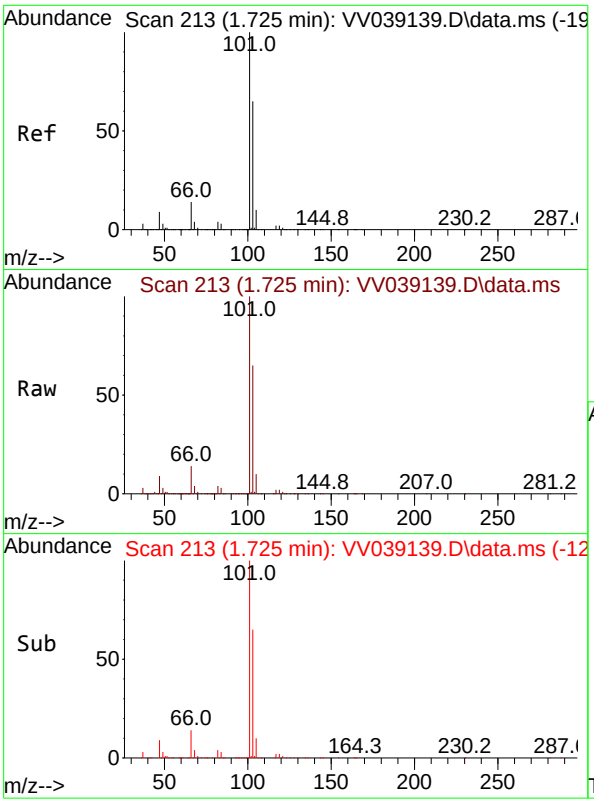


#6
Chloroethane
Concen: 49.734 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 64 Resp: 300232

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	36.8



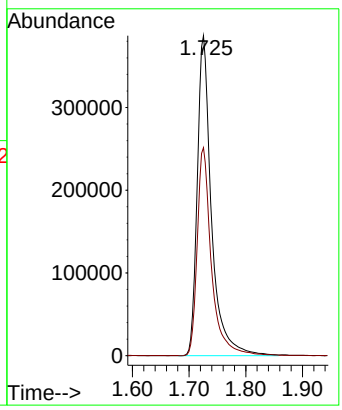


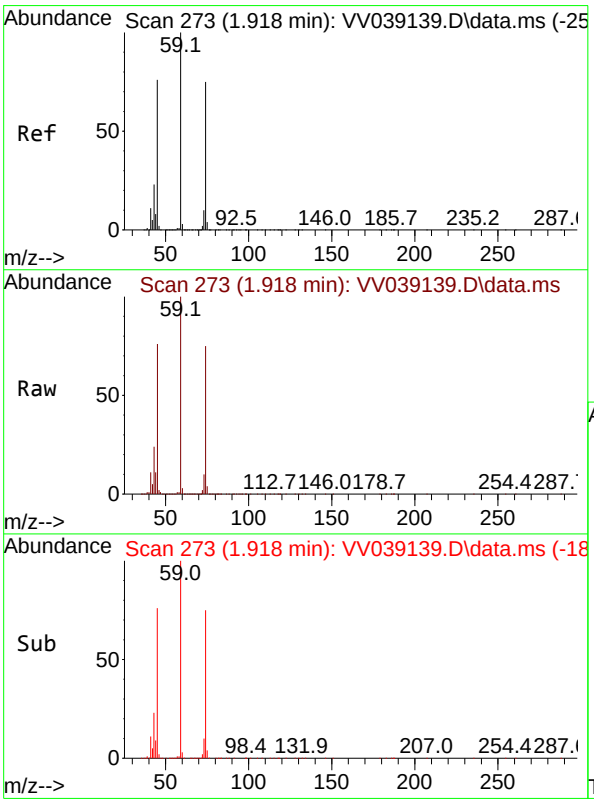
#7
Trichlorofluoromethane
Concen: 45.304 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 672325

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.0	78.0

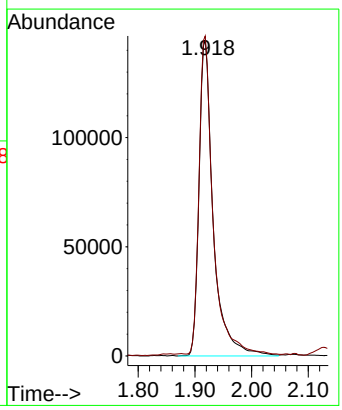


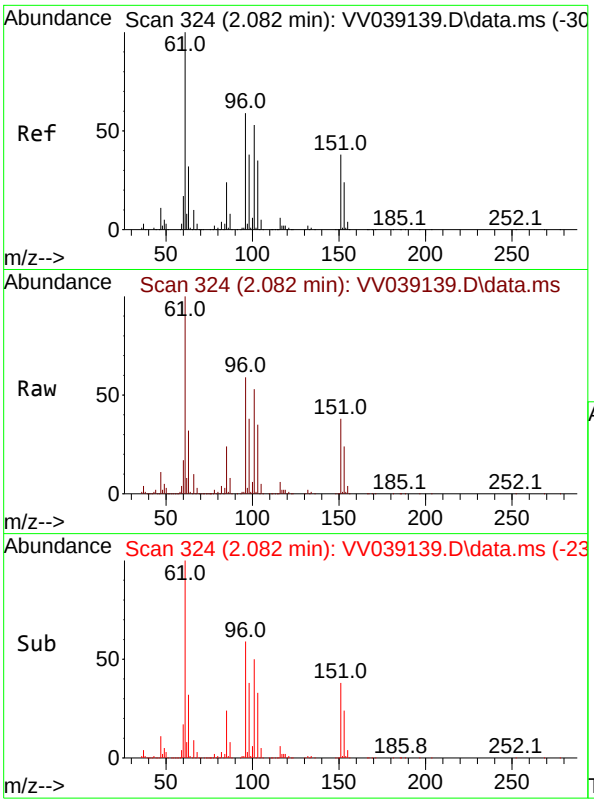


#8
Diethyl Ether
Concen: 45.707 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 74 Resp: 251813

Ion	Ratio	Lower	Upper
74	100		
45	99.2	49.6	148.8



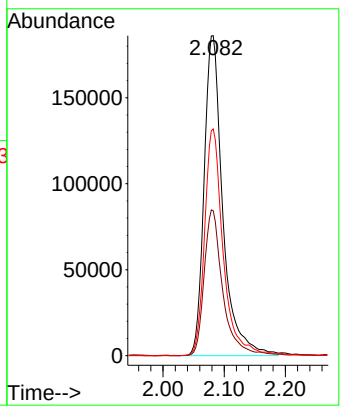


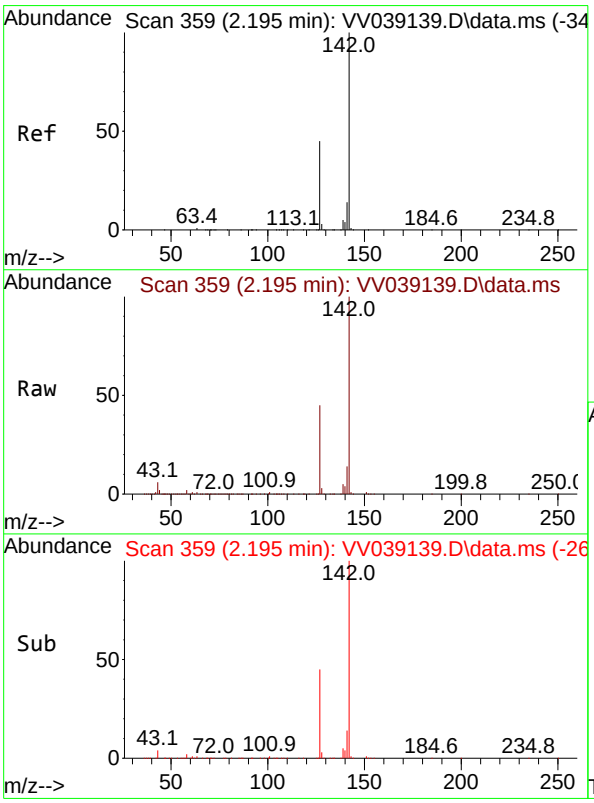
#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.803 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 395615

Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.2	54.2
151	70.4	56.3	84.5

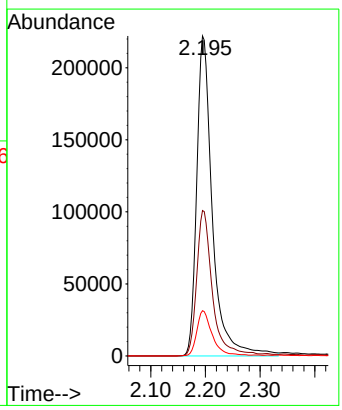


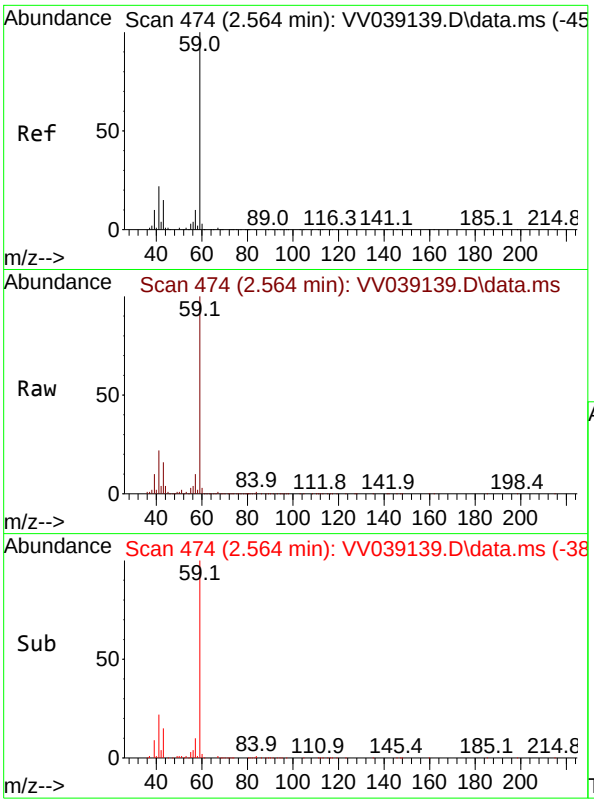


#10
Methyl Iodide
Concen: 52.662 ug/l
RT: 2.195 min Scan# 359
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:142 Resp: 442822

Ion	Ratio	Lower	Upper
142	100		
127	45.4	36.3	54.5
141	14.0	11.2	16.8



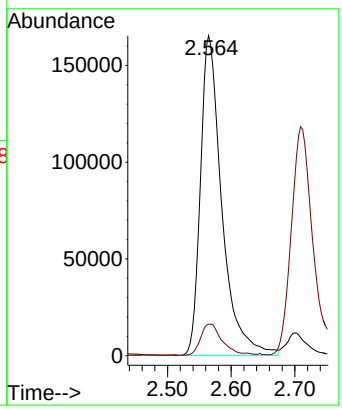


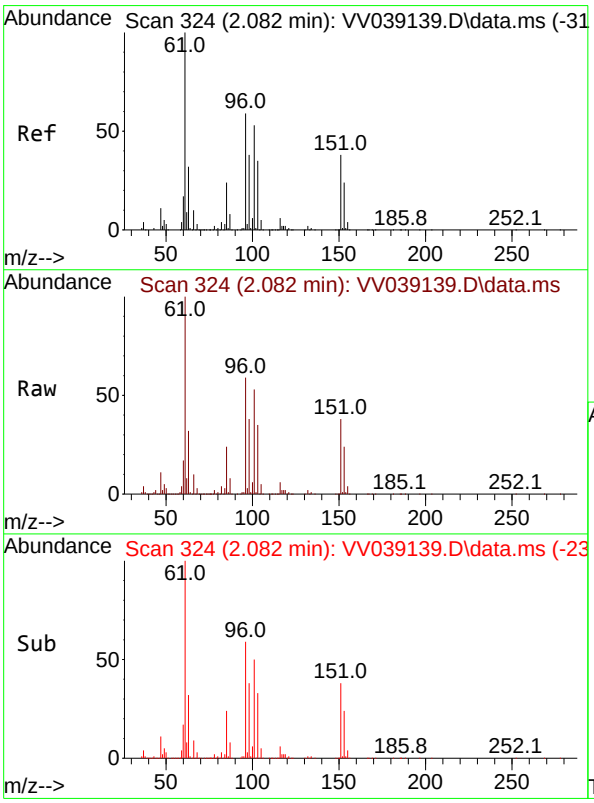
#11
Tert butyl alcohol
Concen: 223.826 ug/l
RT: 2.564 min Scan# 4
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 385746

Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.8	11.8

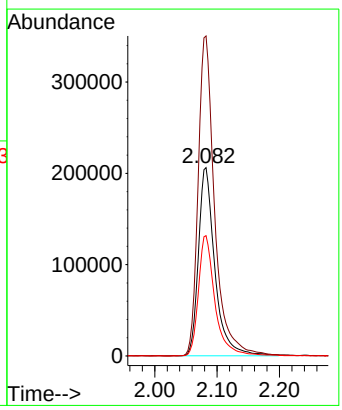


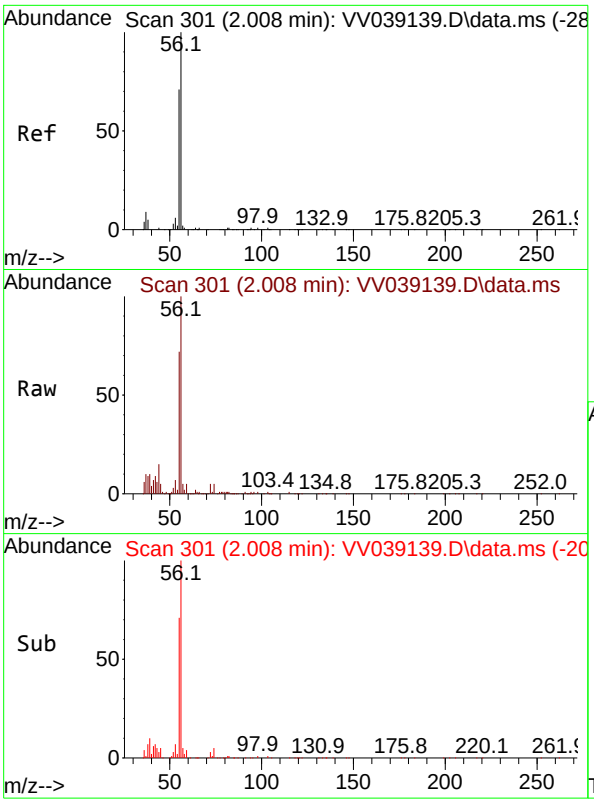


#12
1,1-Dichloroethene
Concen: 44.700 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 96 Resp: 379710

Ion	Ratio	Lower	Upper
96	100		
61	170.0	136.0	204.0
98	63.8	51.0	76.6



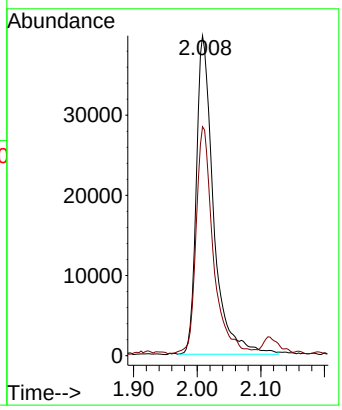


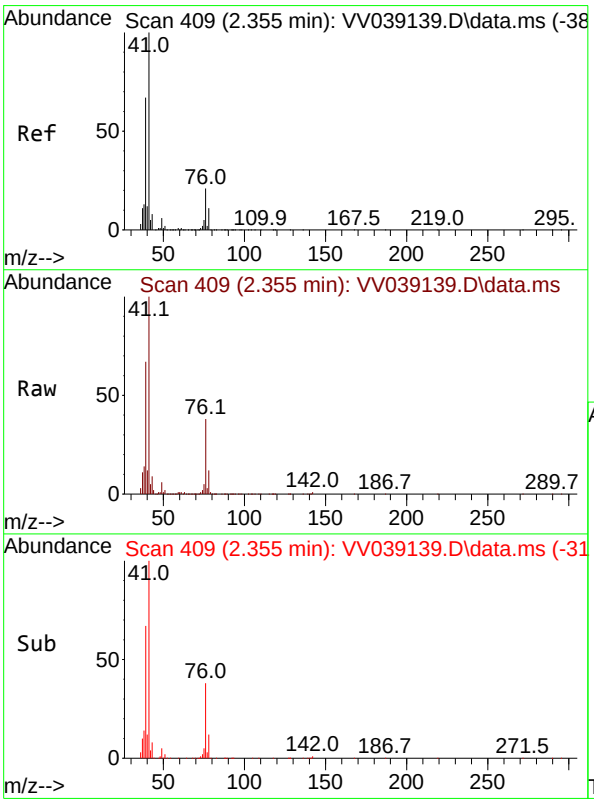
#13
Acrolein
Concen: 249.076 ug/l
RT: 2.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 74486

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4

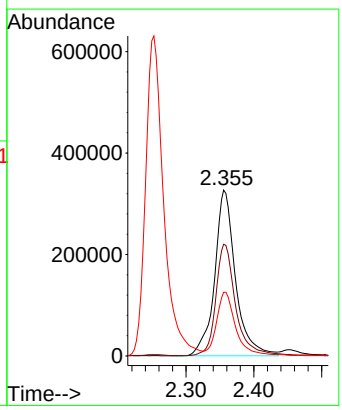


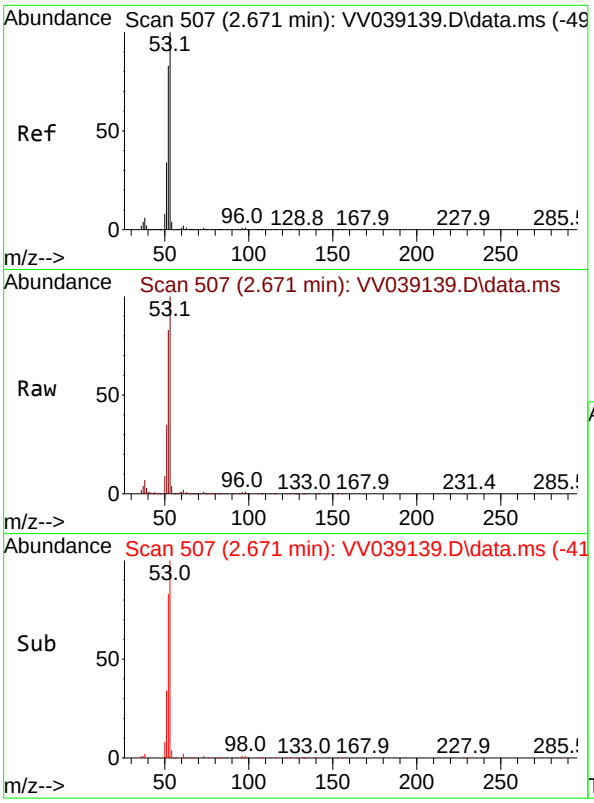


#14
Allyl chloride
Concen: 46.154 ug/l
RT: 2.355 min Scan# 409
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 41 Resp: 700342

Ion	Ratio	Lower	Upper
41	100		
39	63.8	51.0	76.6
76	35.3	28.2	42.4



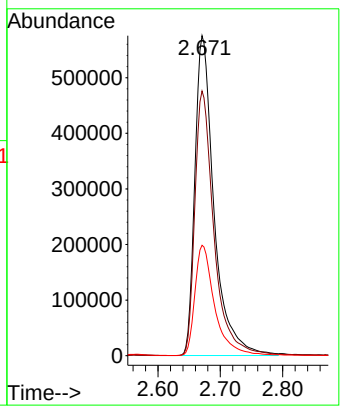


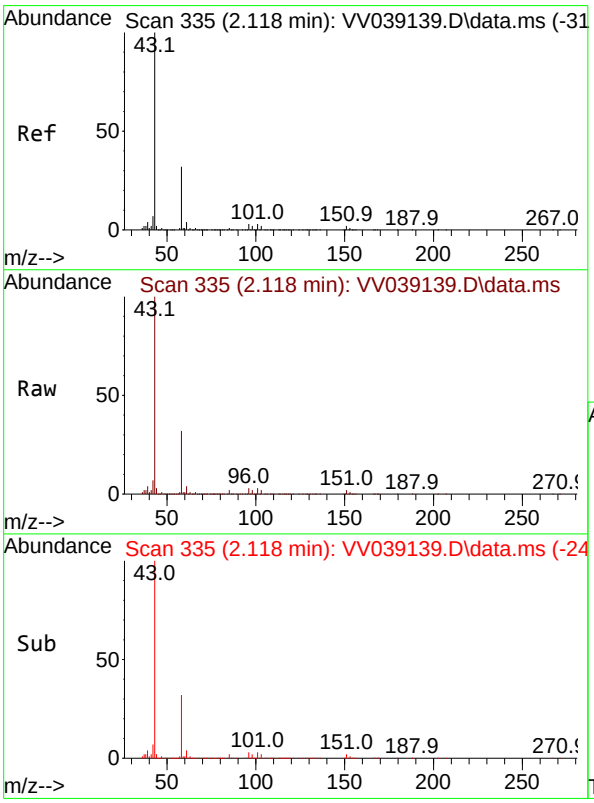
#15
Acrylonitrile
Concen: 222.439 ug/l
RT: 2.671 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 1228907

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	35.6	28.5	42.7

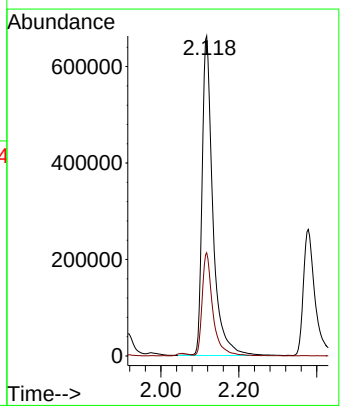


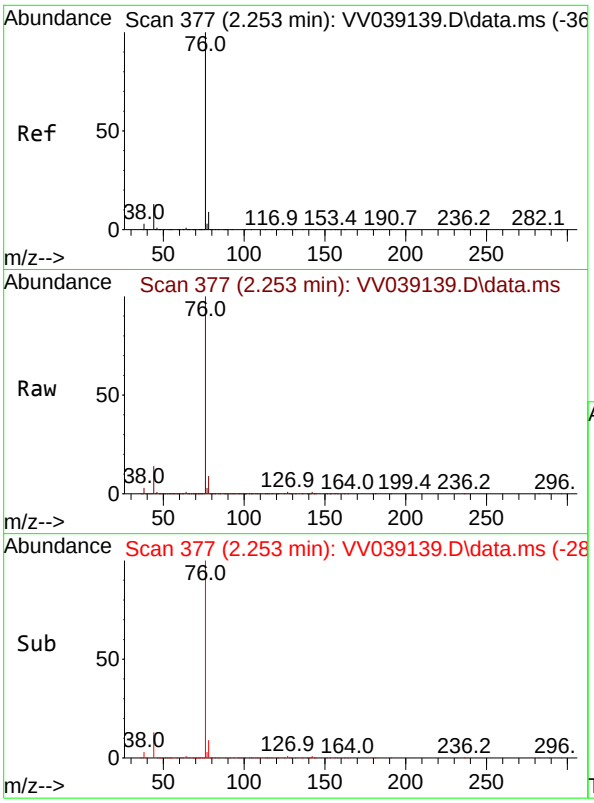


#16
Acetone
Concen: 251.263 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 1265424

Ion	Ratio	Lower	Upper
43	100		
58	32.2	25.8	38.6



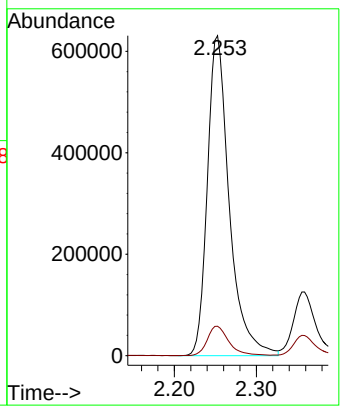


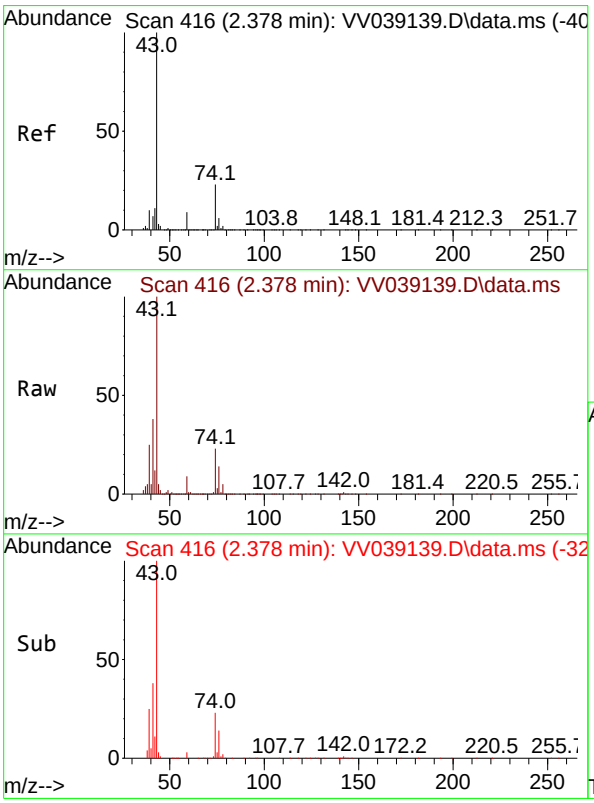
#17
Carbon Disulfide
Concen: 45.126 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 1172348

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

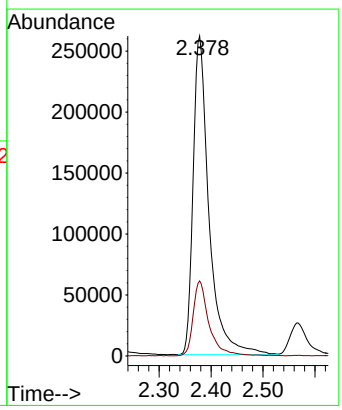


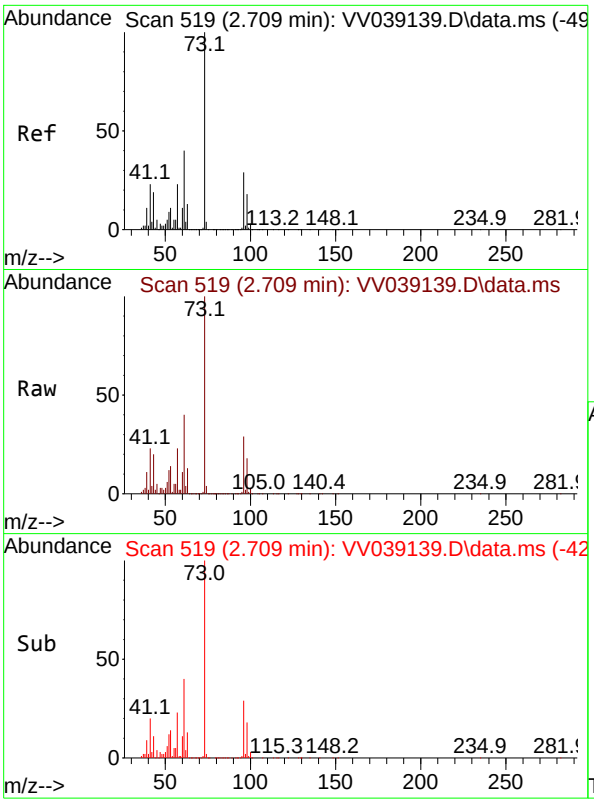


#18
Methyl Acetate
Concen: 45.827 ug/l
RT: 2.378 min Scan# 416
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 553676

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	27.8



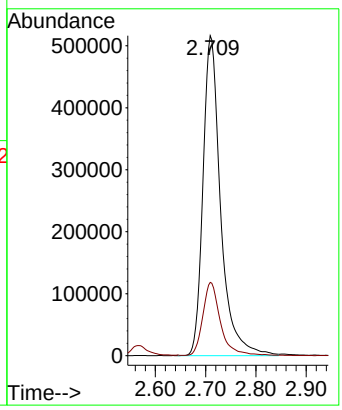


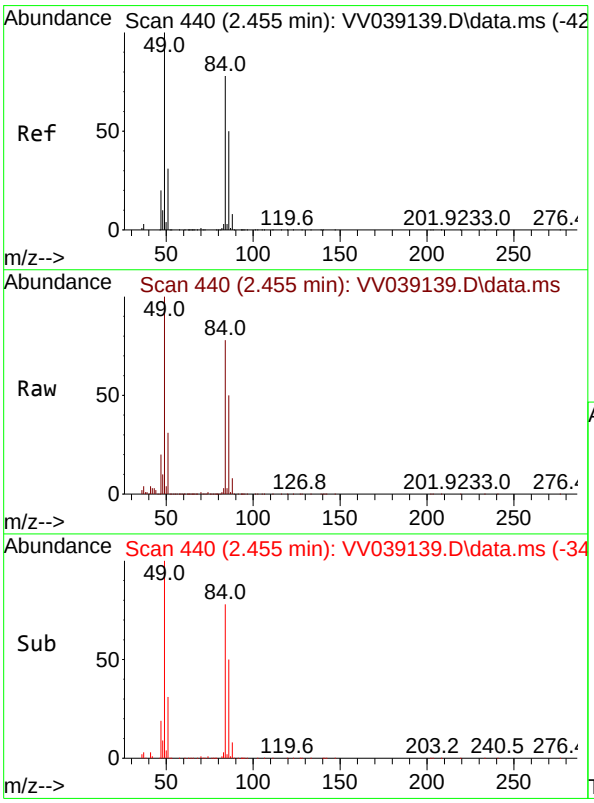
#19
Methyl tert-butyl Ether
Concen: 46.476 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 1258060

Ion	Ratio	Lower	Upper
73	100		
57	22.8	18.2	27.4

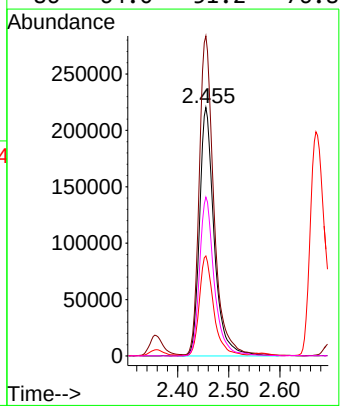


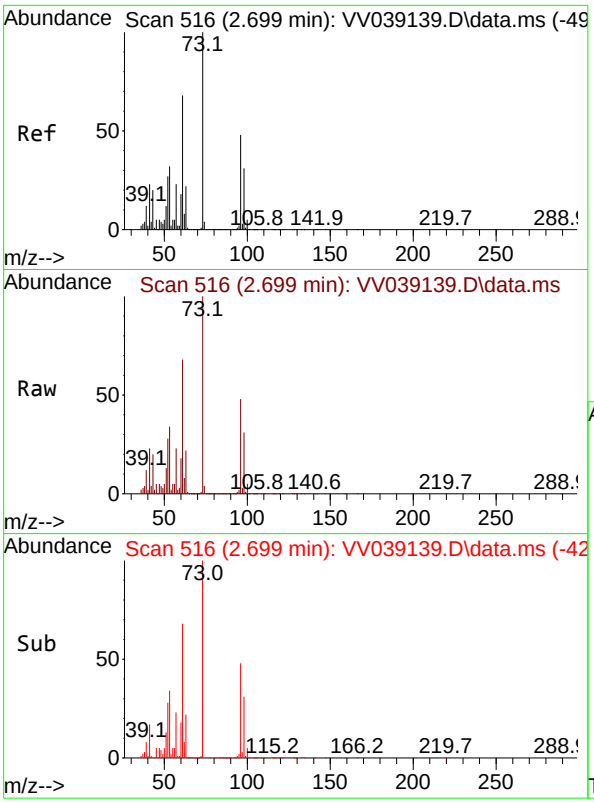


#20
Methylene Chloride
Concen: 49.828 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 84 Resp: 439142

Ion	Ratio	Lower	Upper
84	100		
49	128.5	102.8	154.2
51	39.9	31.9	47.9
86	64.0	51.2	76.8



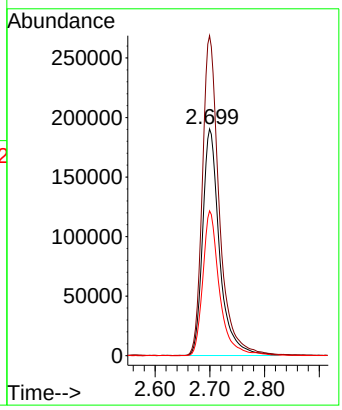


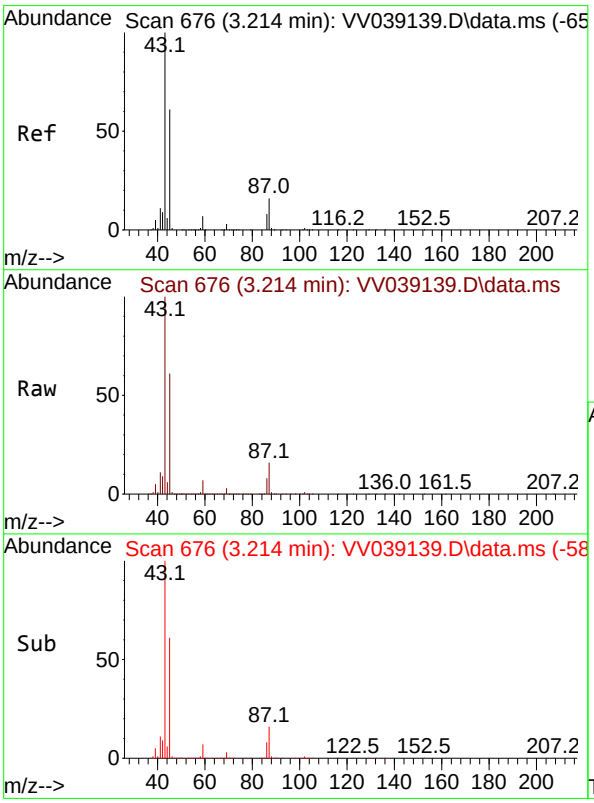
#21
trans-1,2-Dichloroethene
Concen: 45.109 ug/l
RT: 2.699 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 407938

Ion	Ratio	Lower	Upper
96	100		
61	141.0	112.8	169.2
98	63.9	51.1	76.7

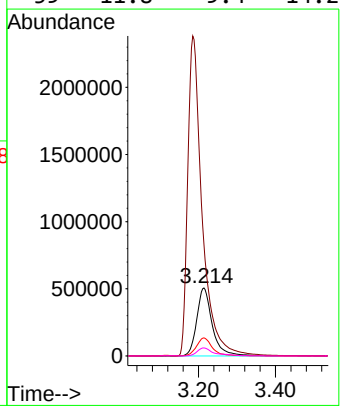


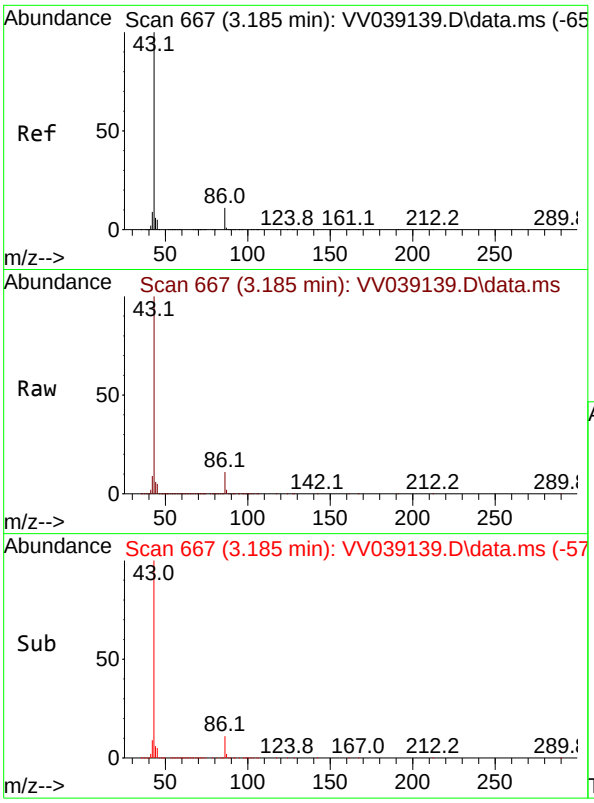


#22
Diisopropyl ether
Concen: 48.895 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 45 Resp: 1419527

Ion	Ratio	Lower	Upper
45	100		
43	163.6	130.9	196.3
87	26.4	21.1	31.7
59	11.8	9.4	14.2



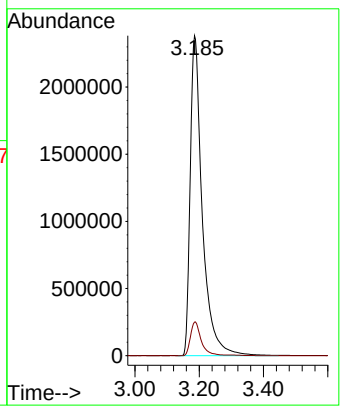


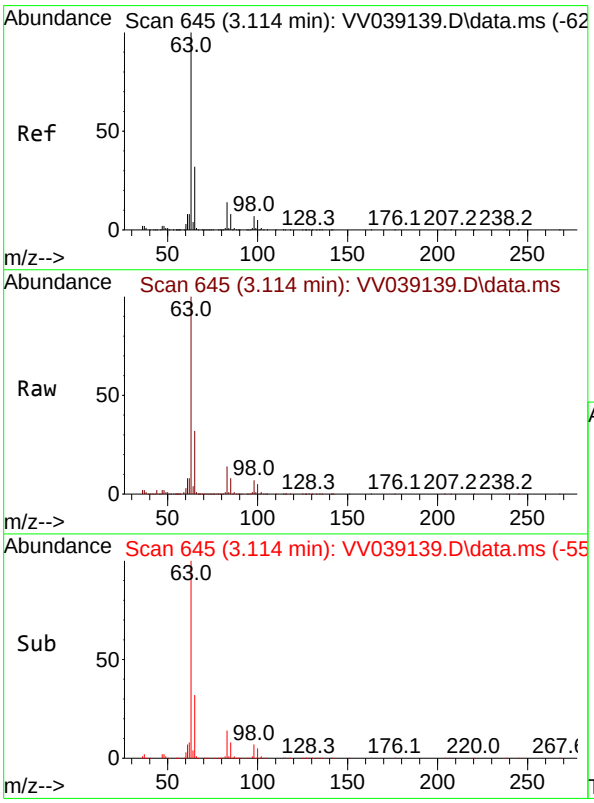
#23
Vinyl Acetate
Concen: 244.506 ug/l
RT: 3.185 min Scan# 6
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 6209687

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.4	12.6

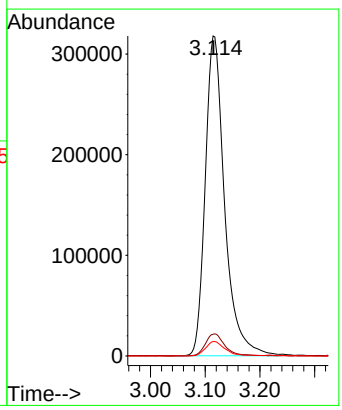


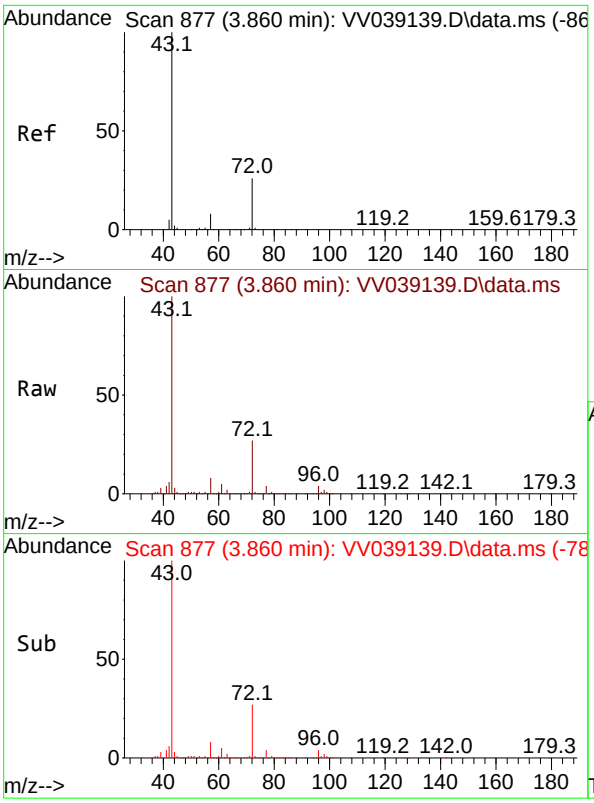


#24
1,1-Dichloroethane
Concen: 44.037 ug/l
RT: 3.114 min Scan# 645
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 63 Resp: 781832

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.4	2.2	6.6



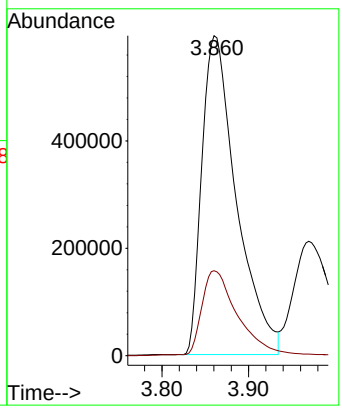


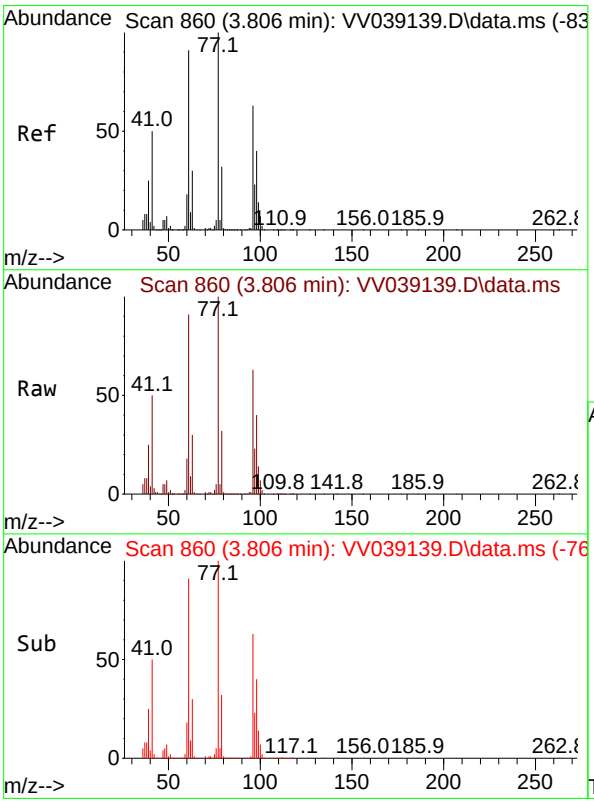
#25
2-Butanone
Concen: 257.105 ug/l
RT: 3.860 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1650213

Ion	Ratio	Lower	Upper
43	100		
72	26.3	21.0	31.6

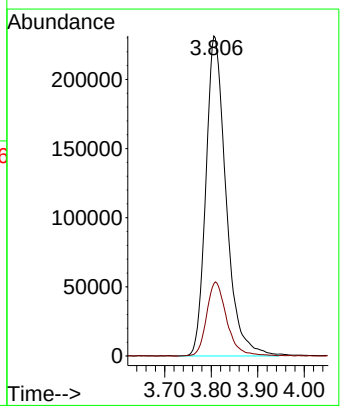


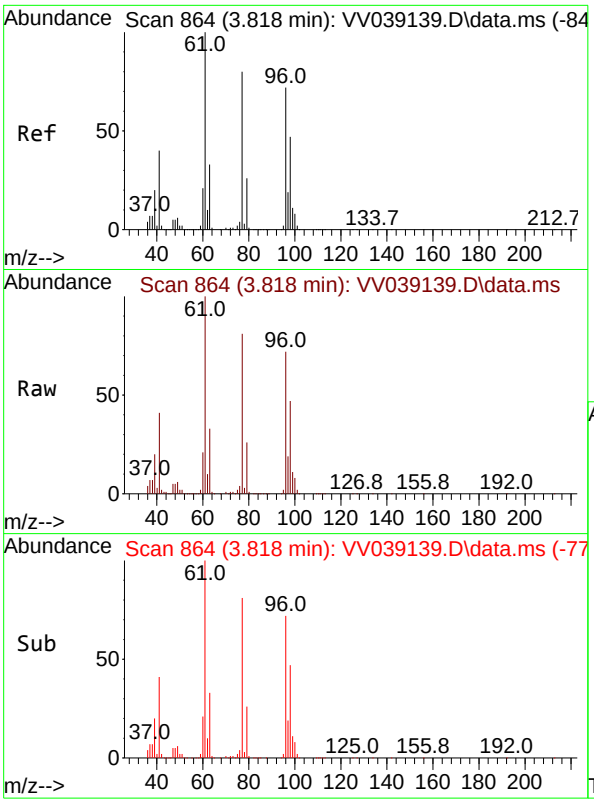


#26
2,2-Dichloropropane
Concen: 44.534 ug/l
RT: 3.806 min Scan# 860
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 77 Resp: 698283

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



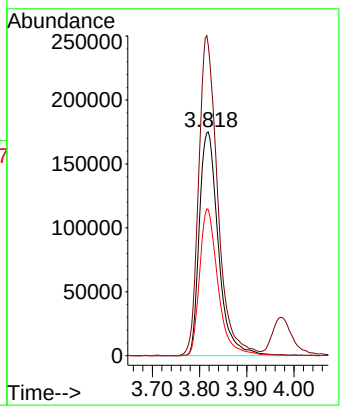


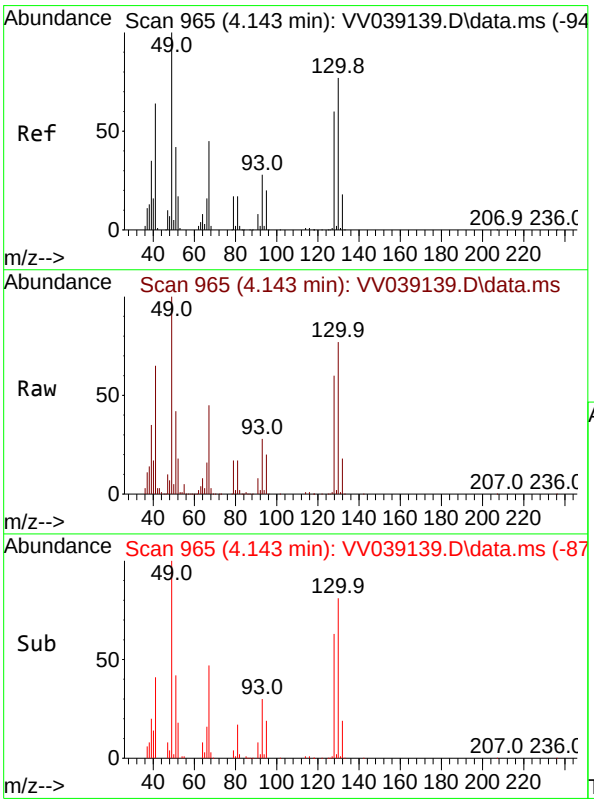
#27
cis-1,2-Dichloroethene
Concen: 49.026 ug/l
RT: 3.818 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 488972

Ion	Ratio	Lower	Upper
96	100		
61	143.2	0.0	286.4
98	63.3	0.0	126.6

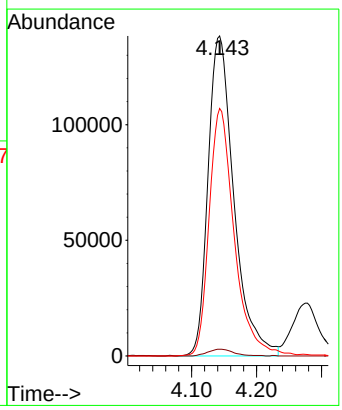


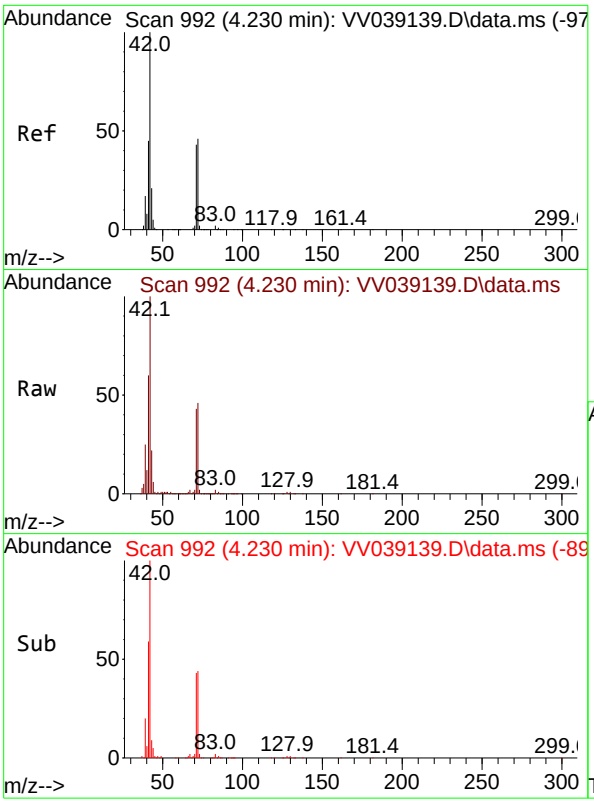


#28
Bromochloromethane
Concen: 48.820 ug/l
RT: 4.143 min Scan# 965
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 49 Resp: 382640

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	75.2	60.2	90.2



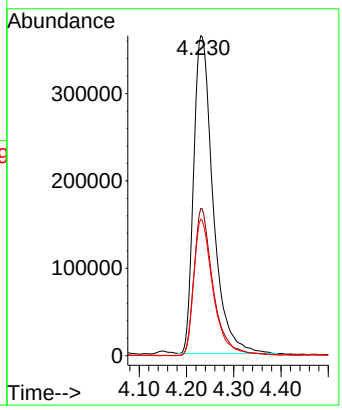


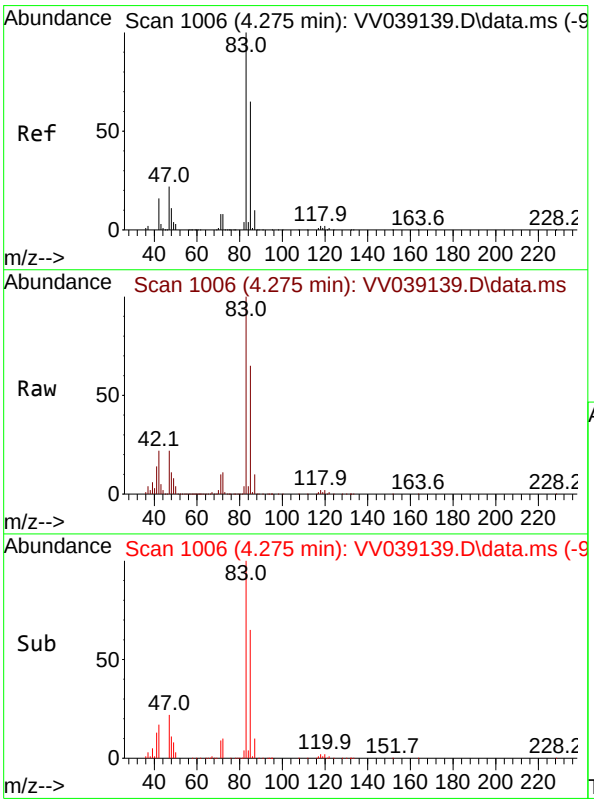
#29
Tetrahydrofuran
Concen: 254.258 ug/l
RT: 4.230 min Scan# 9
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 1039169

Ion	Ratio	Lower	Upper
42	100		
72	45.4	36.3	54.5
71	42.9	34.3	51.5

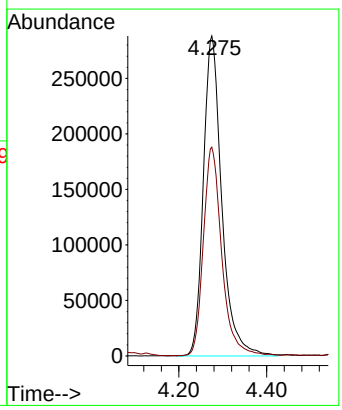


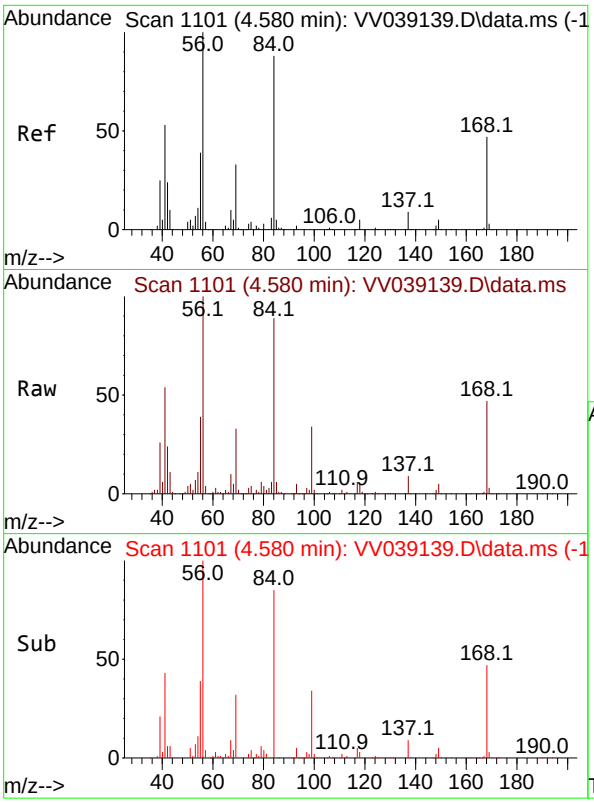


#30
Chloroform
Concen: 45.268 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 83 Resp: 839217

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1



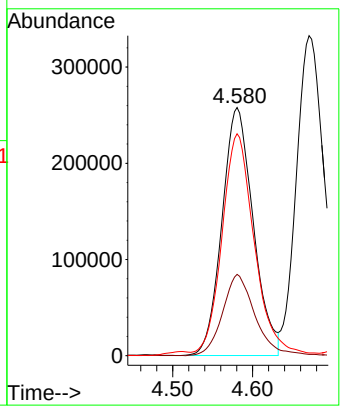


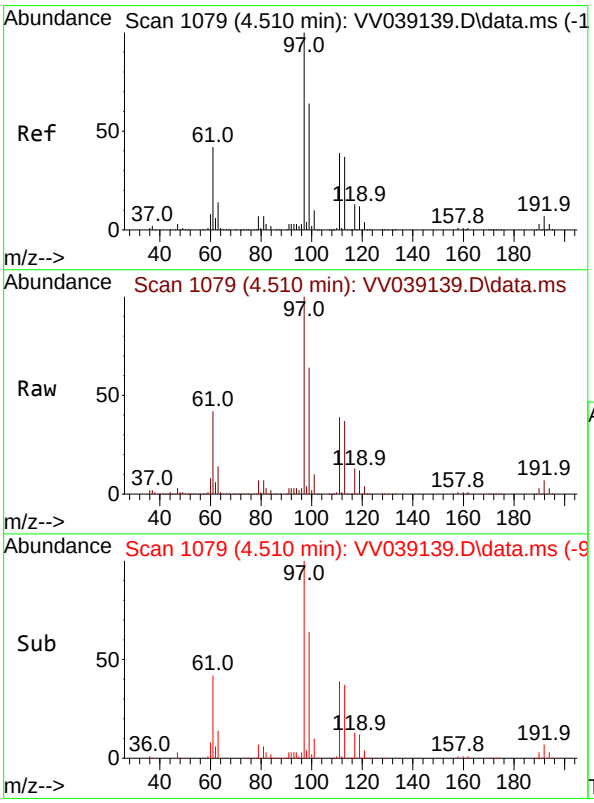
#31
Cyclohexane
Concen: 48.232 ug/l
RT: 4.580 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 701482

Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.2	39.2
84	87.9	70.3	105.5

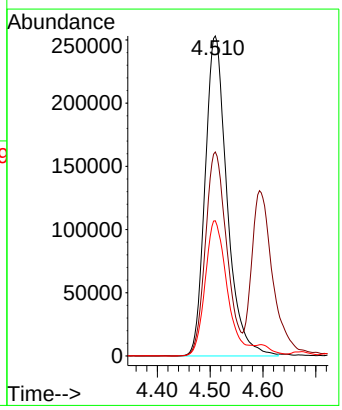


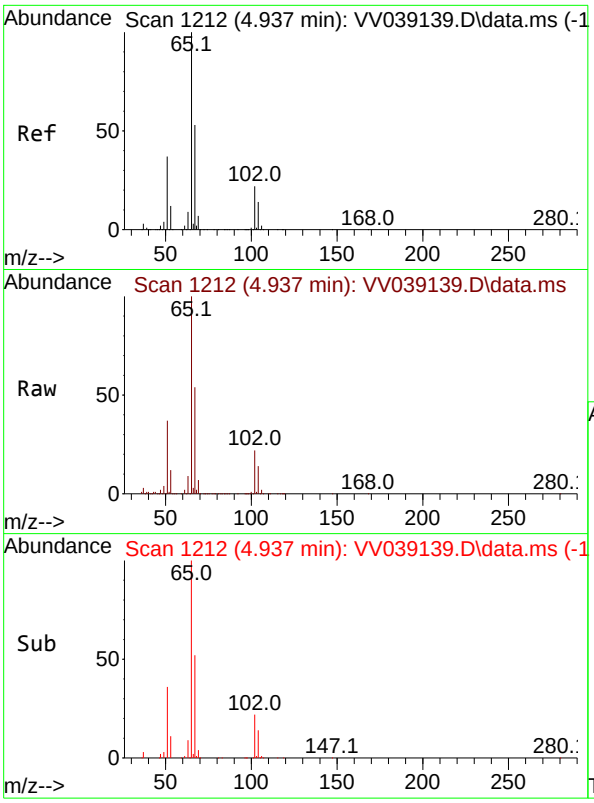


#32
1,1,1-Trichloroethane
Concen: 45.547 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 97 Resp: 731030

Ion	Ratio	Lower	Upper
97	100		
99	62.0	49.6	74.4
61	43.1	34.5	51.7



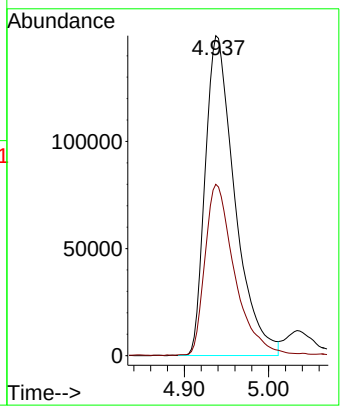


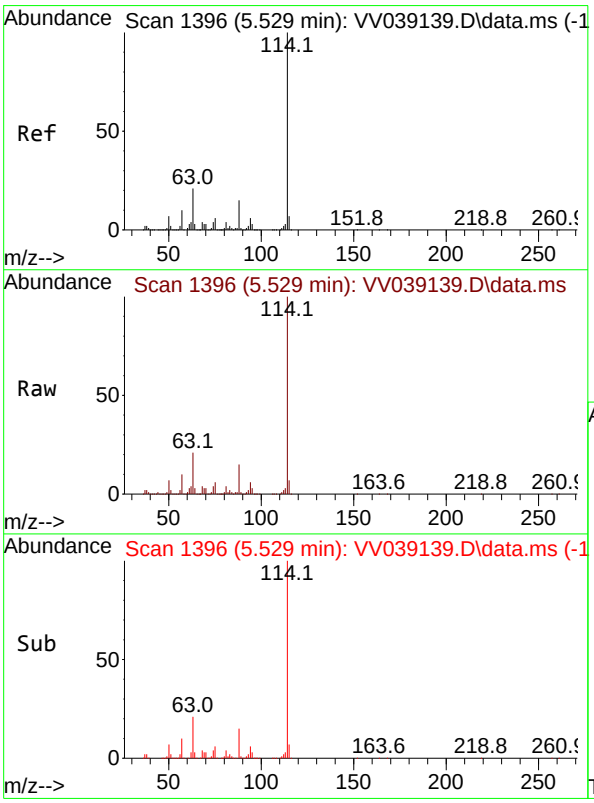
#33
1,2-Dichloroethane-d4
Concen: 44.618 ug/l
RT: 4.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 363821

Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	107.0

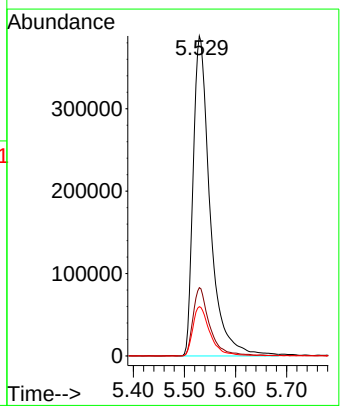


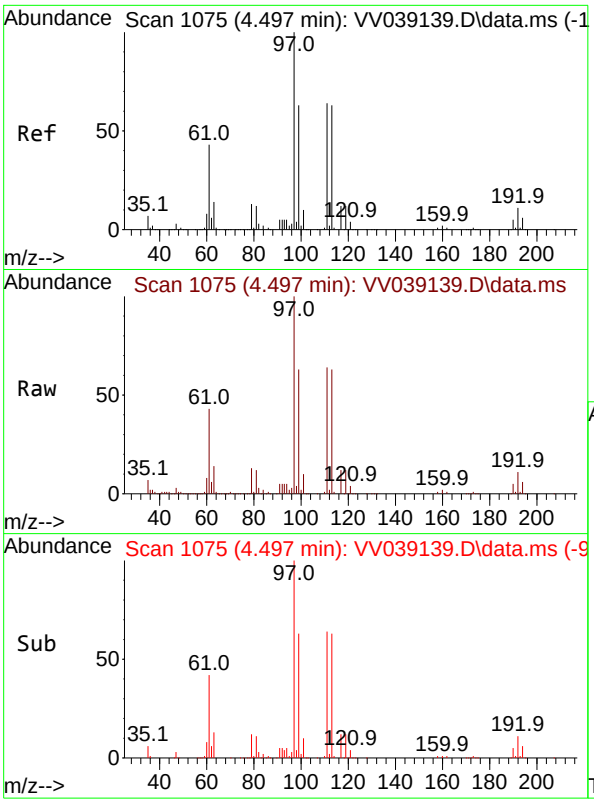


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:114 Resp: 894173

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	15.4	0.0	30.8



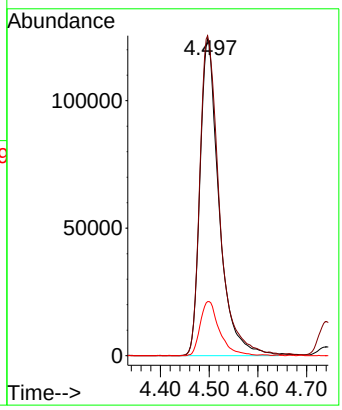


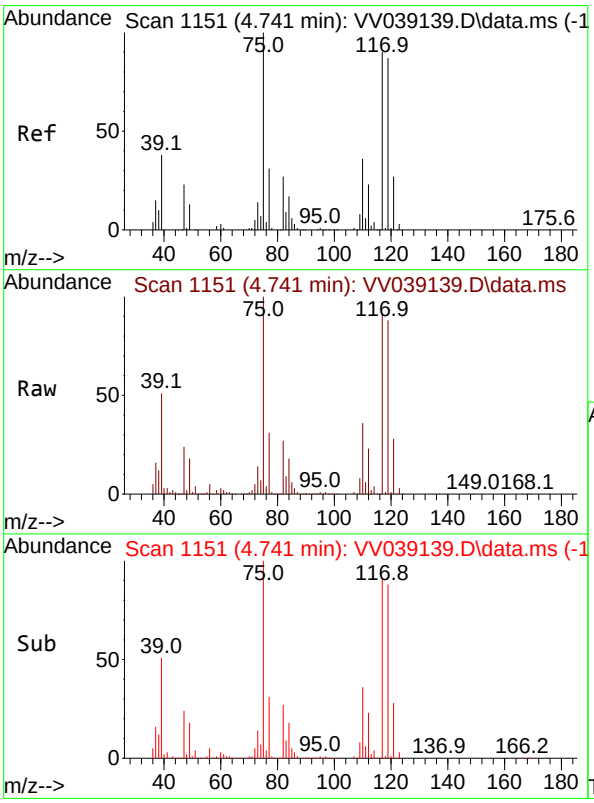
#35
Dibromofluoromethane
Concen: 46.935 ug/l
RT: 4.497 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 337386

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	17.3	13.8	20.8

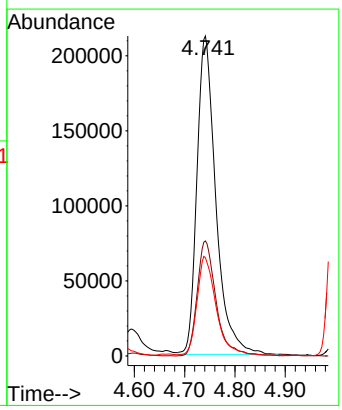


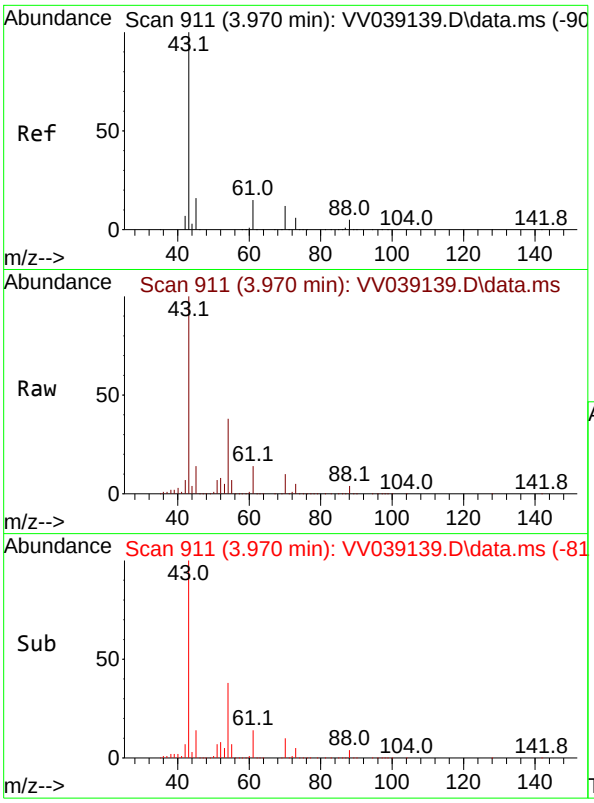


#36
1,1-Dichloropropene
Concen: 50.680 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 554798

Ion	Ratio	Lower	Upper
75	100		
110	36.1	18.1	54.1
77	31.0	24.8	37.2



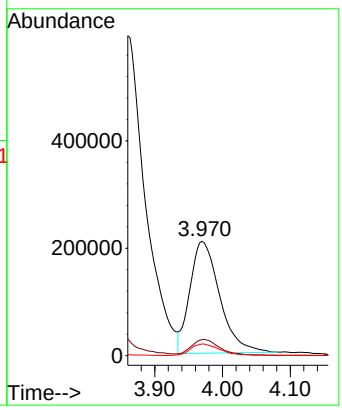


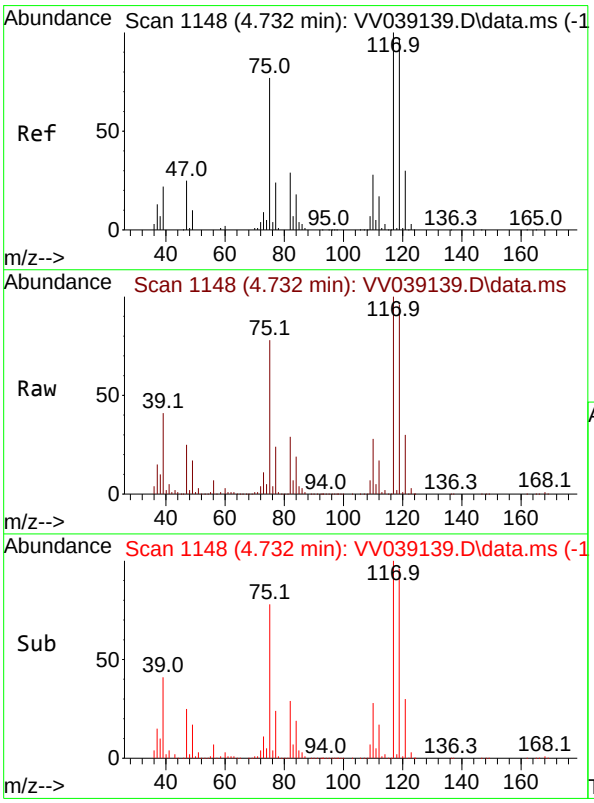
#37
Ethyl Acetate
Concen: 47.519 ug/l
RT: 3.970 min Scan# 91
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 638131

Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.3	15.5
70	10.0	8.0	12.0

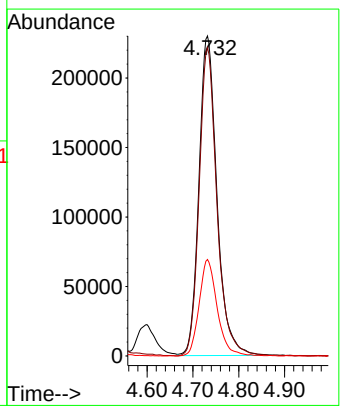


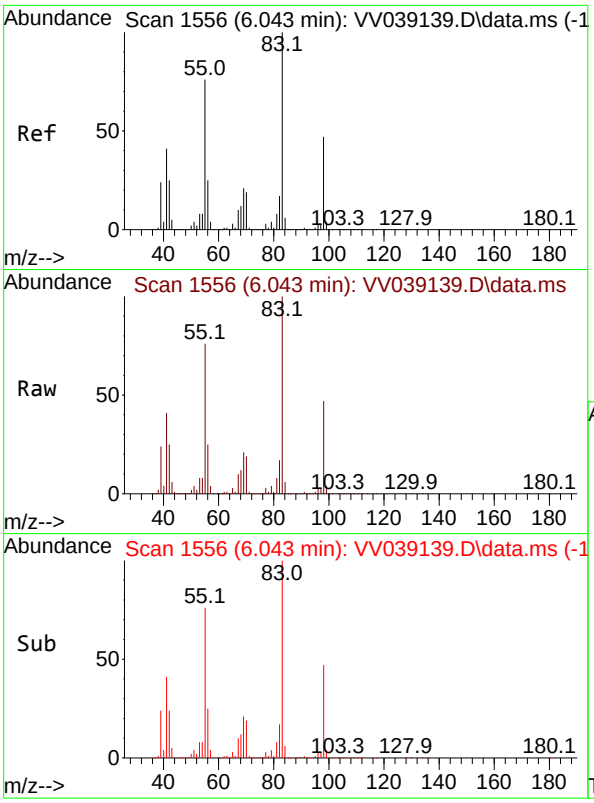


#38
Carbon Tetrachloride
Concen: 47.666 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:117 Resp: 628516

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.2	115.8
121	30.2	24.2	36.2



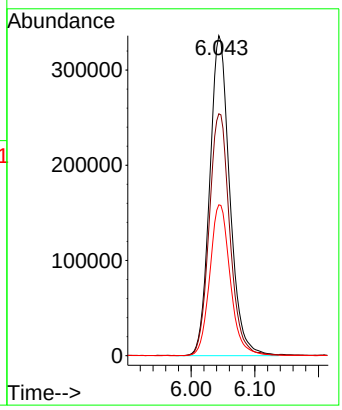


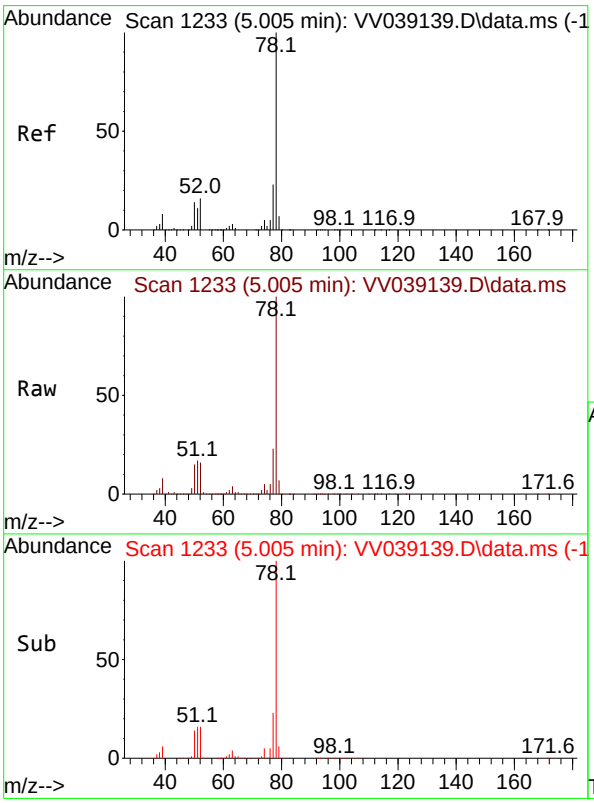
#39
Methylcyclohexane
Concen: 56.095 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 736231

Ion	Ratio	Lower	Upper
83	100		
55	75.6	60.5	90.7
98	47.2	37.8	56.6

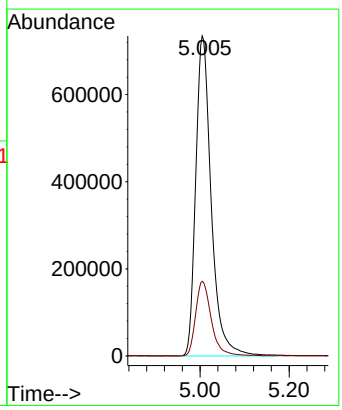


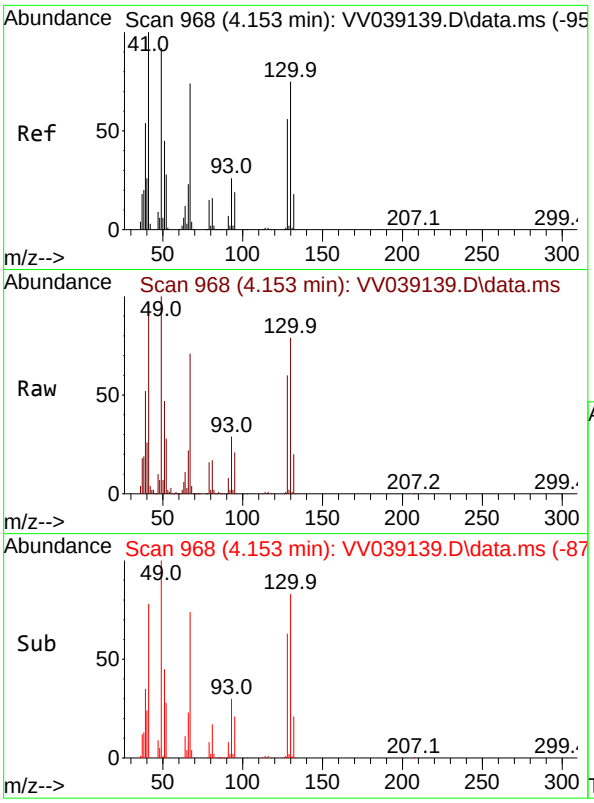


#40
Benzene
Concen: 50.276 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 78 Resp: 1779301

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1



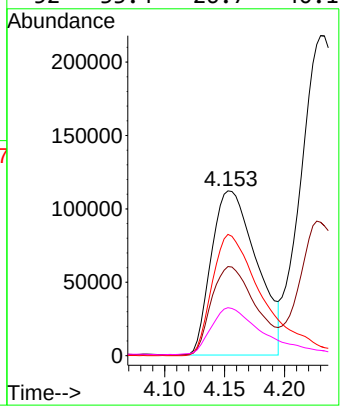


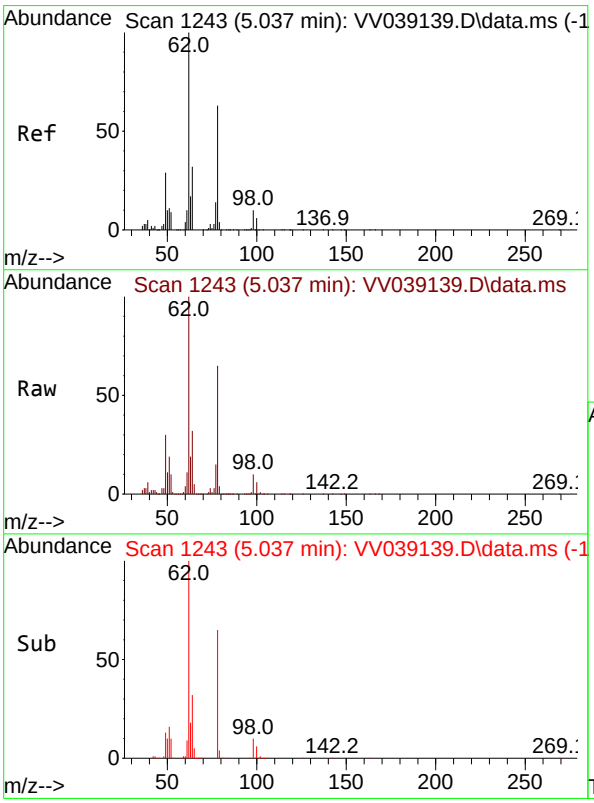
#41
Methacrylonitrile
Concen: 49.541 ug/l
RT: 4.153 min Scan# 9
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 295316

Ion	Ratio	Lower	Upper
41	100		
39	52.7	42.2	63.2
67	84.9	67.9	101.9
52	33.4	26.7	40.1

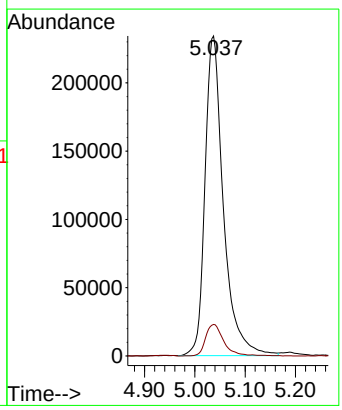


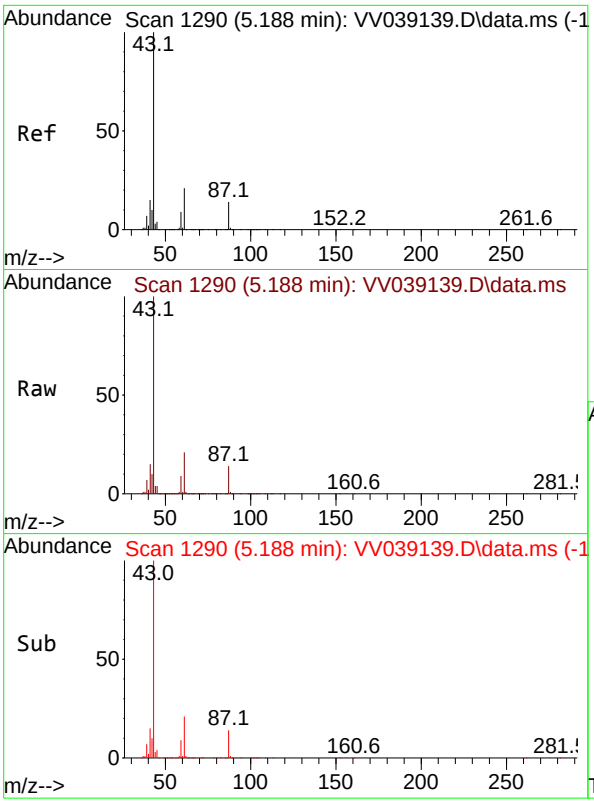


#42
1,2-Dichloroethane
Concen: 48.000 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 62 Resp: 595216

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.2



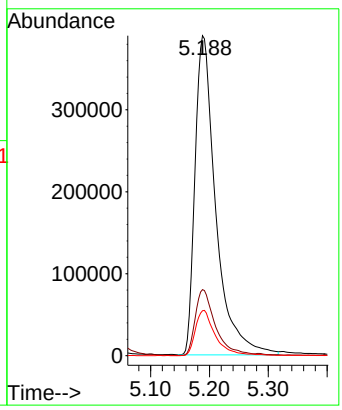


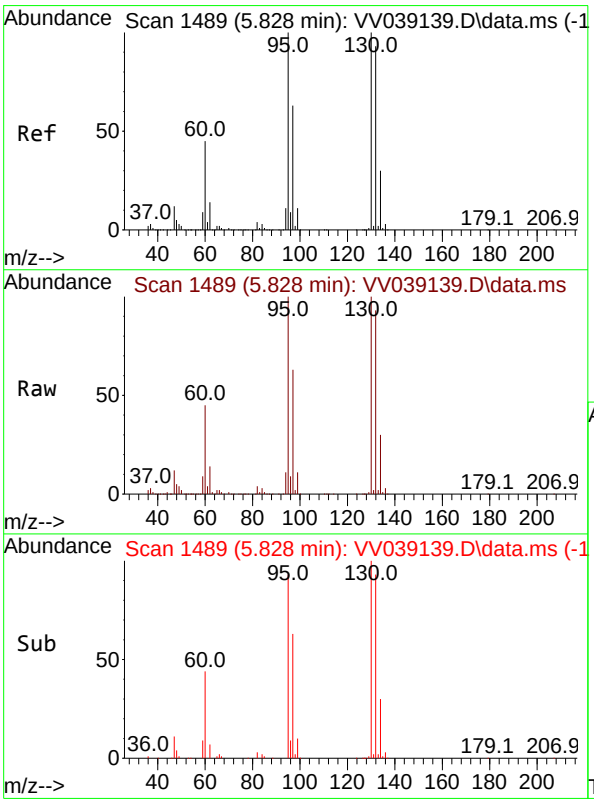
#43
Isopropyl Acetate
Concen: 51.691 ug/l
RT: 5.188 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 956288

Ion	Ratio	Lower	Upper
43	100		
61	19.9	15.9	23.9
87	13.8	11.0	16.6

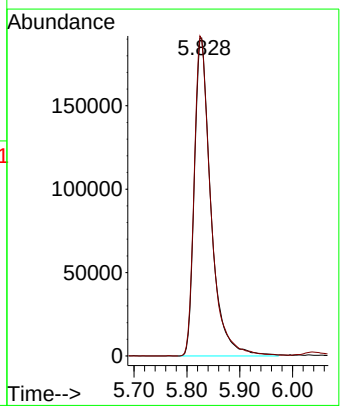


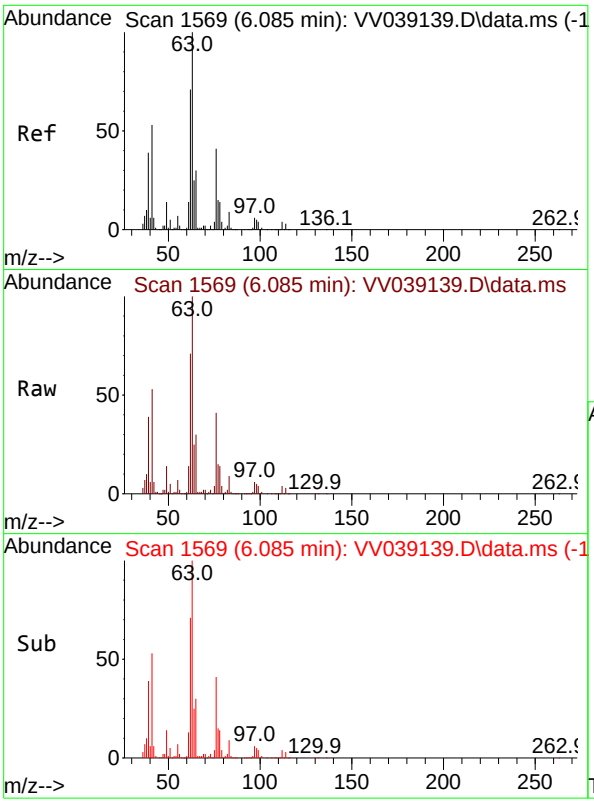


#44
Trichloroethene
Concen: 50.715 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:130 Resp: 414171

Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	199.2



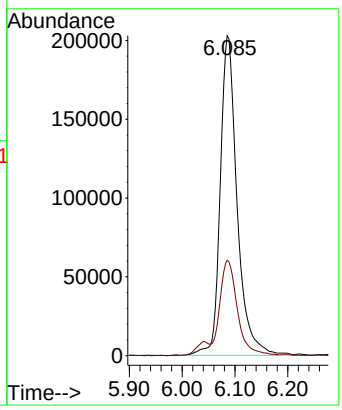


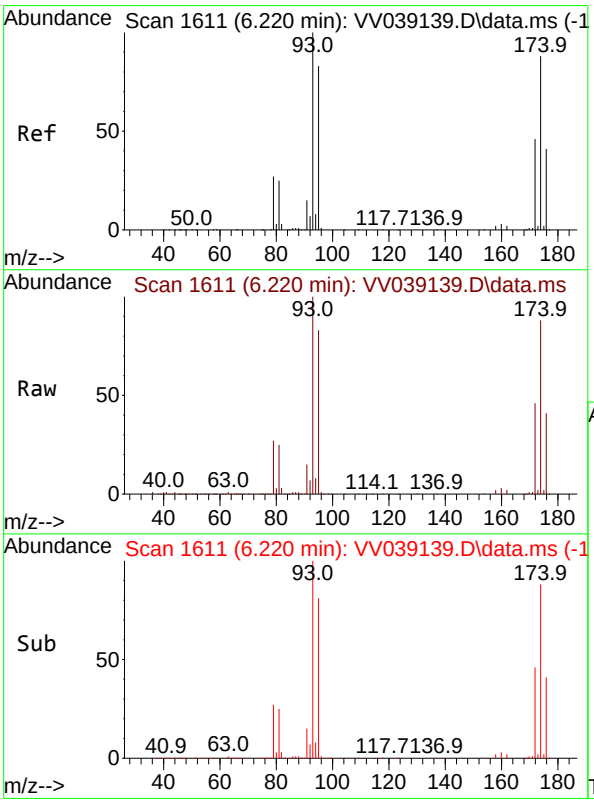
#45
1,2-Dichloropropane
Concen: 51.014 ug/l
RT: 6.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 448750

Ion	Ratio	Lower	Upper
63	100		
65	29.6	23.7	35.5

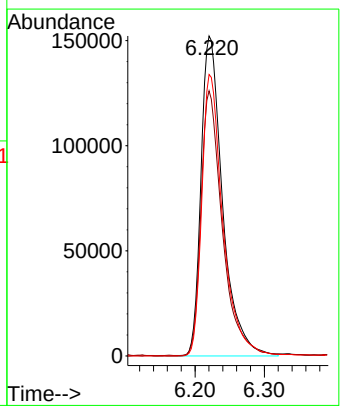


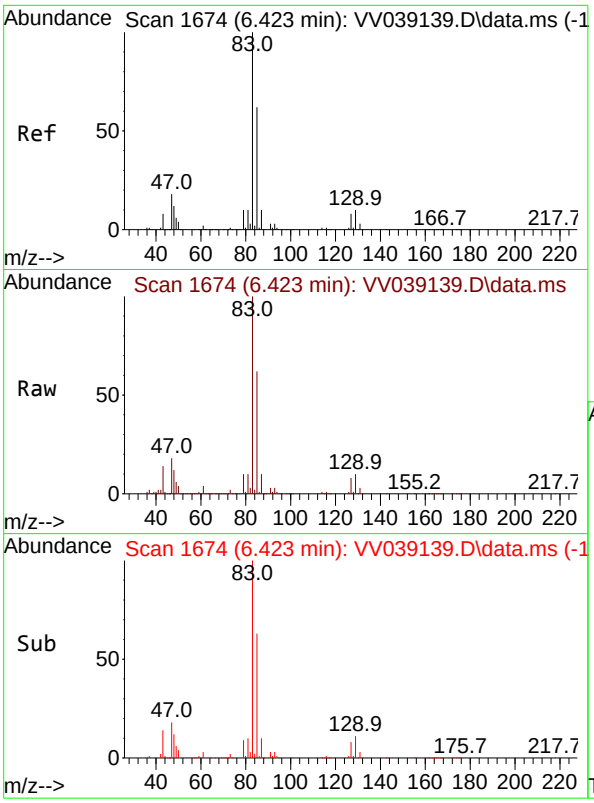


#46
Dibromomethane
Concen: 48.876 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 93 Resp: 329073

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.5	98.3
174	86.2	69.0	103.4



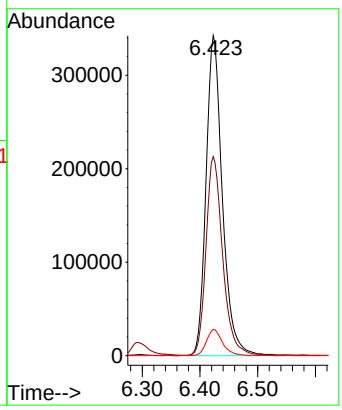


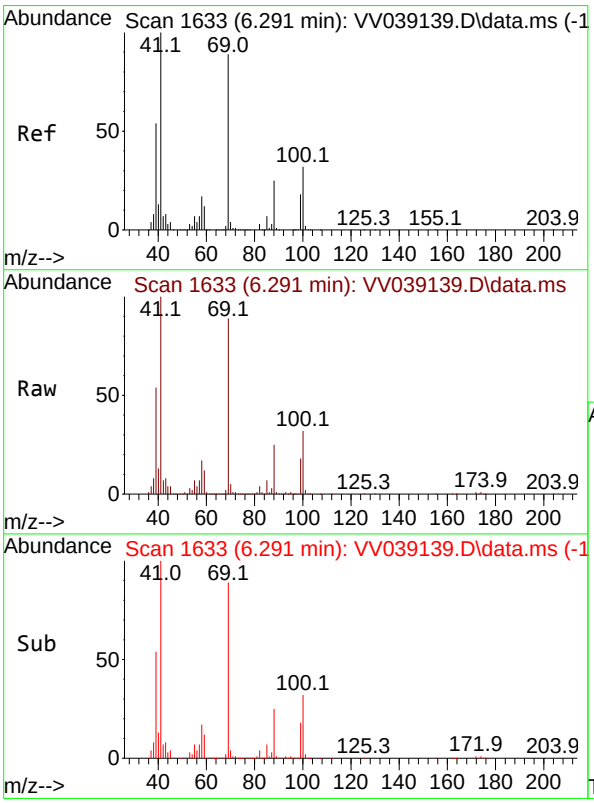
#47
Bromodichloromethane
Concen: 48.398 ug/l
RT: 6.423 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 673646

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.7	74.5
127	8.2	6.6	9.8

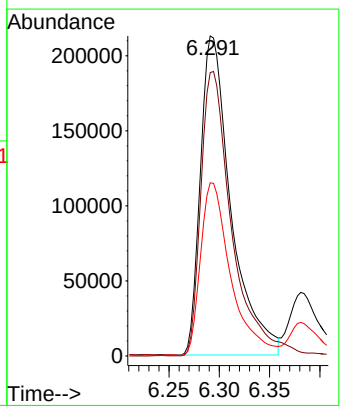


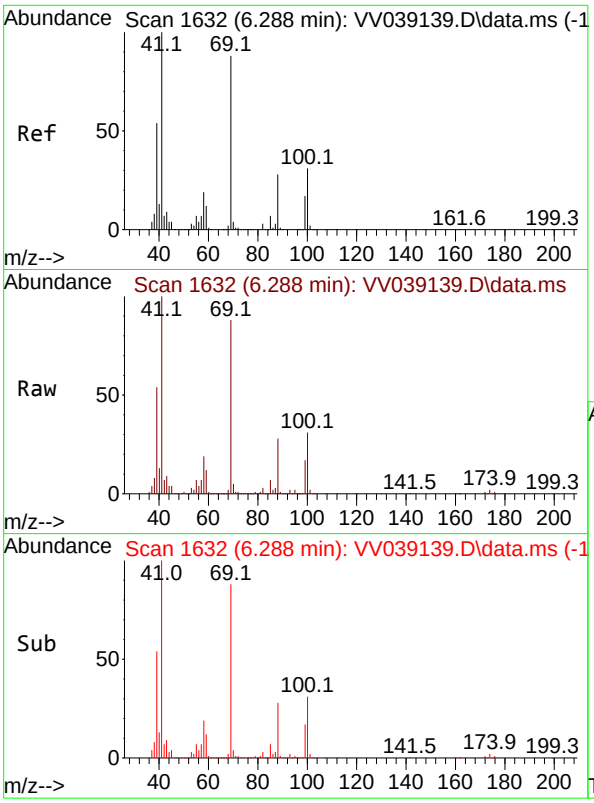


#48
Methyl methacrylate
Concen: 53.193 ug/l
RT: 6.291 min Scan# 1633
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 41 Resp: 450230

Ion	Ratio	Lower	Upper
41	100		
69	90.5	72.4	108.6
39	53.1	42.5	63.7



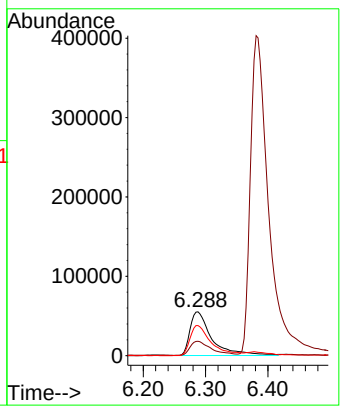


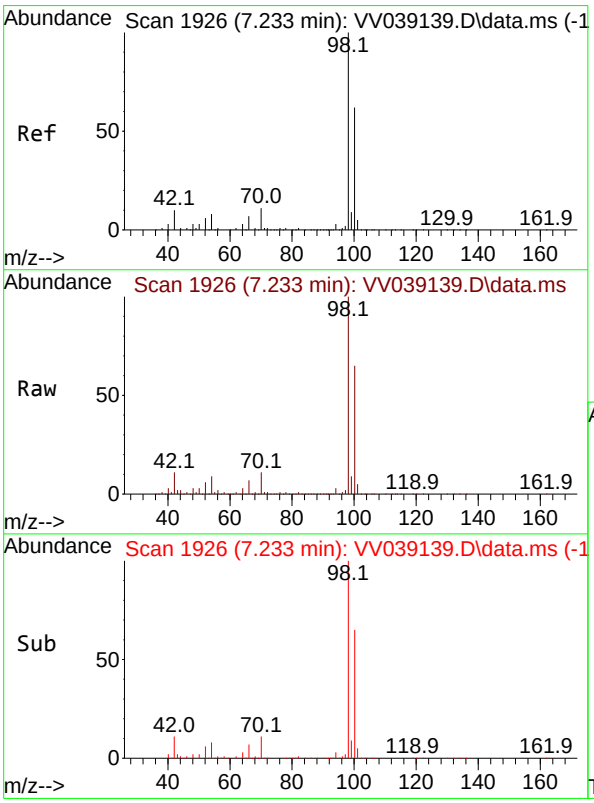
#49
1,4-Dioxane
Concen: 1006.069 ug/l
RT: 6.288 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 133834

Ion	Ratio	Lower	Upper
88	100		
43	31.4	25.1	37.7
58	67.0	53.6	80.4

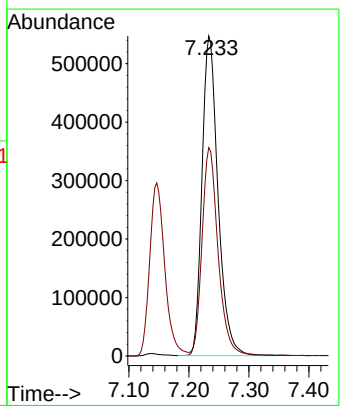


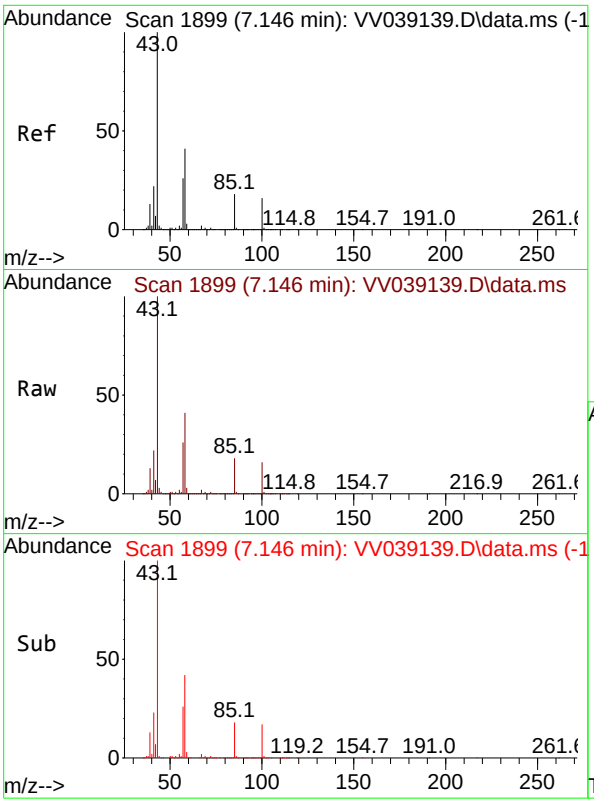


#50
Toluene-d8
Concen: 48.130 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 98 Resp: 1016135

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2



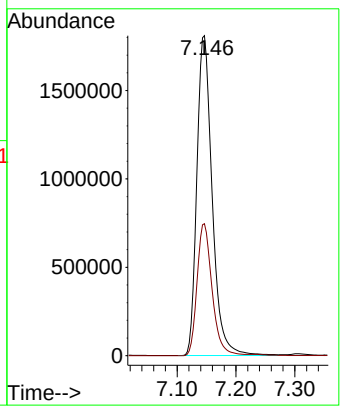


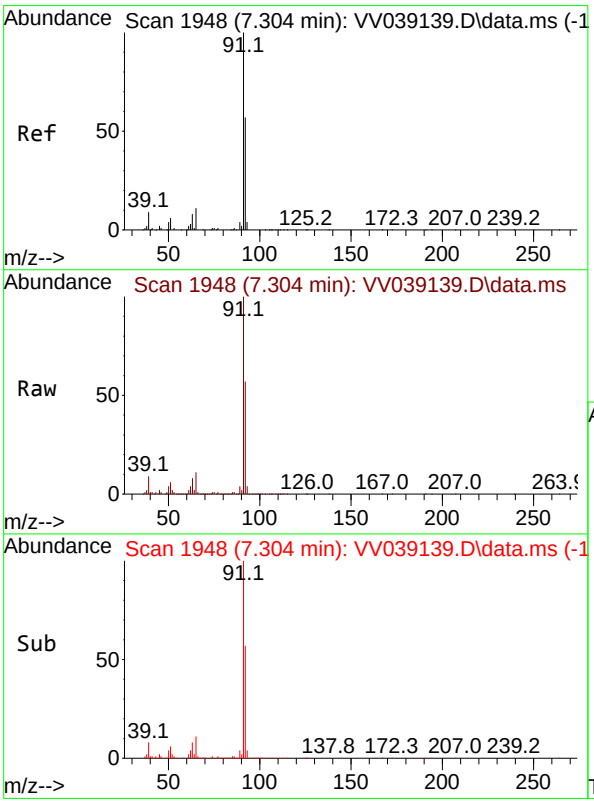
#51
4-Methyl-2-Pentanone
Concen: 276.753 ug/l
RT: 7.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 3273840

Ion	Ratio	Lower	Upper
43	100		
58	40.4	32.3	48.5

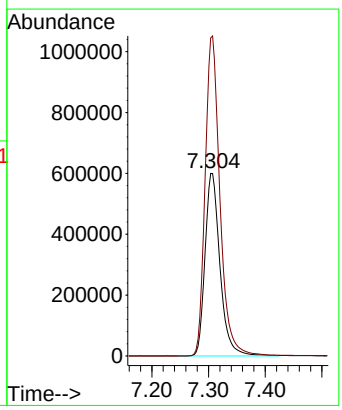


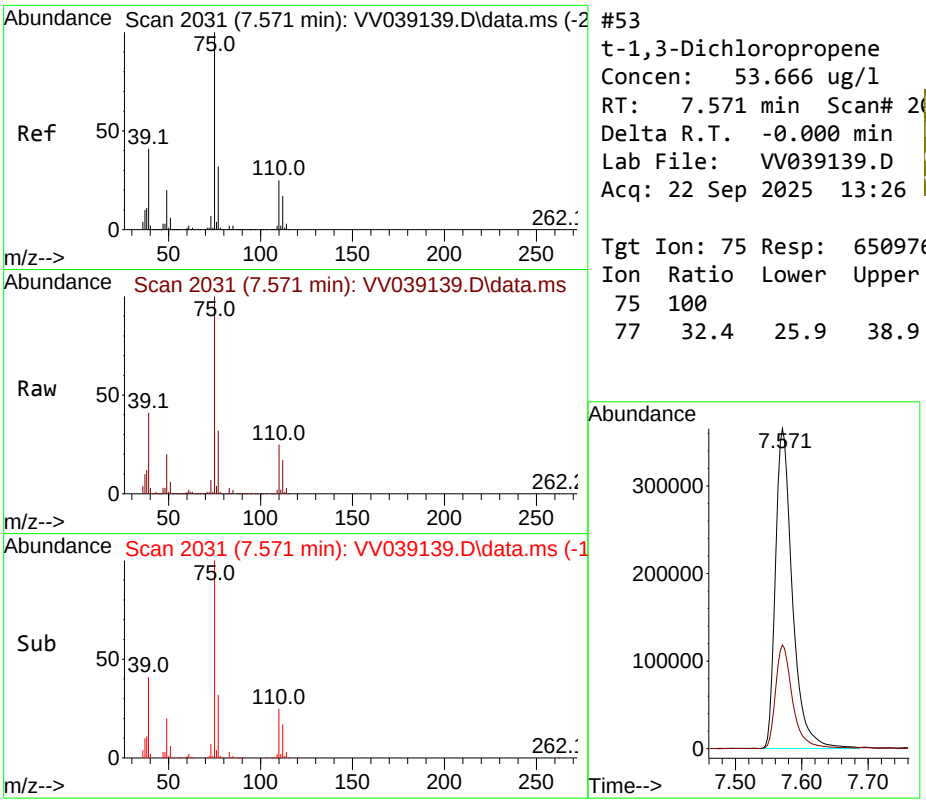


#52
Toluene
Concen: 53.574 ug/l
RT: 7.304 min Scan# 1948
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 92 Resp: 1099325

Ion	Ratio	Lower	Upper
92	100		
91	174.0	139.2	208.8



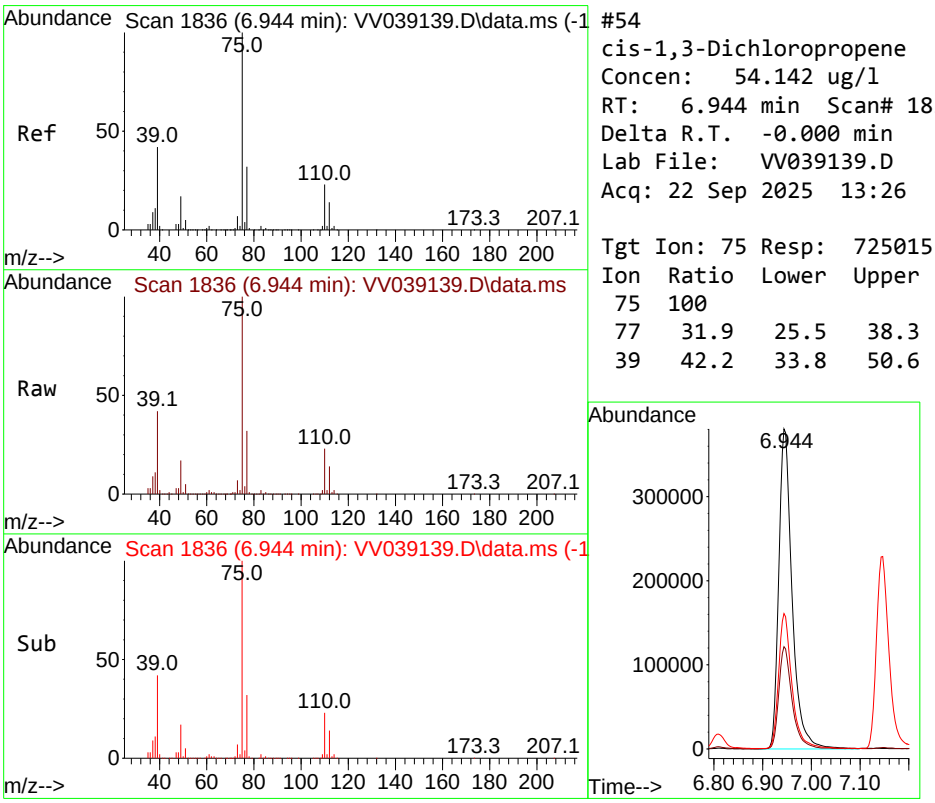


#53
t-1,3-Dichloropropene
Concen: 53.666 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 650976

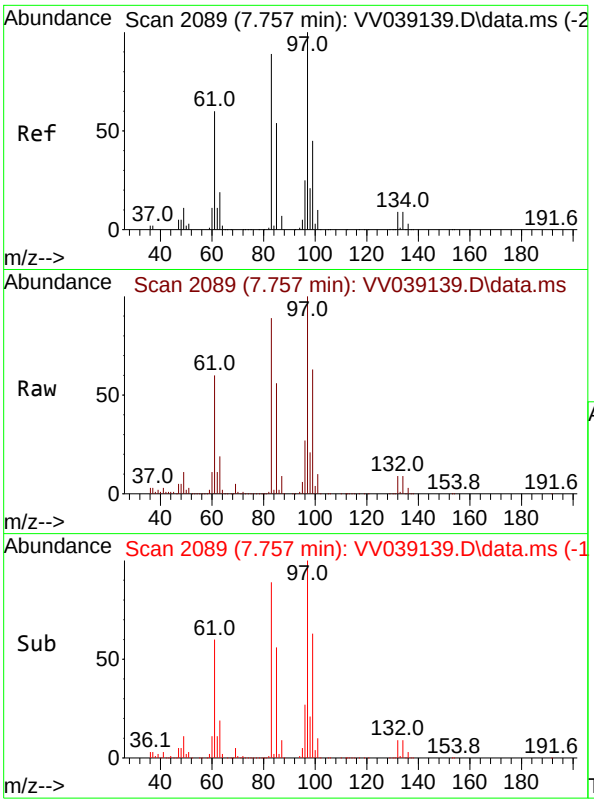
Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.9	38.9



#54
cis-1,3-Dichloropropene
Concen: 54.142 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 725015

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.5	38.3
39	42.2	33.8	50.6

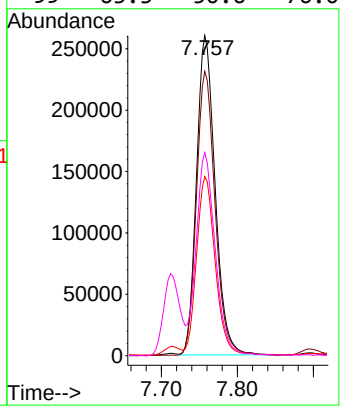


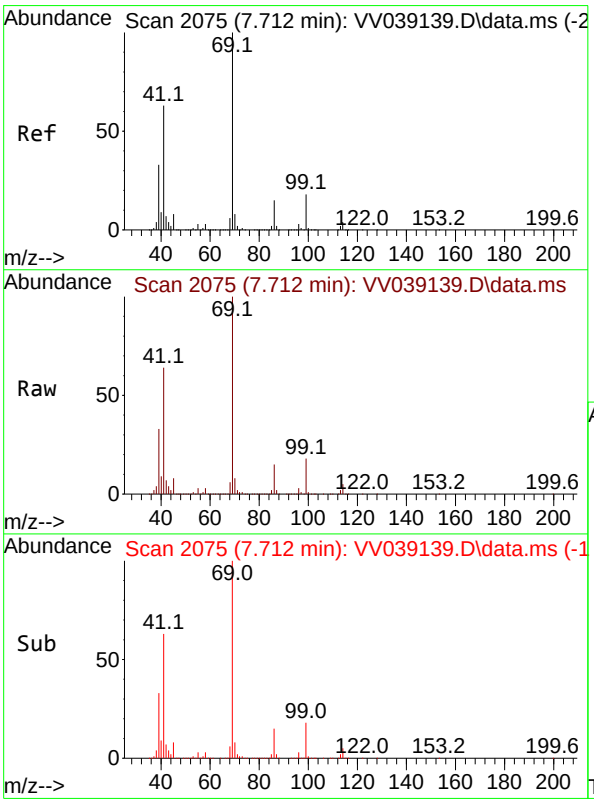
#55
1,1,2-Trichloroethane
Concen: 48.020 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 441822

Ion	Ratio	Lower	Upper
97	100		
83	88.9	71.1	106.7
85	55.8	44.6	67.0
99	63.3	50.6	76.0

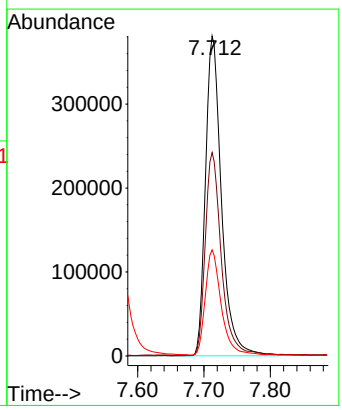


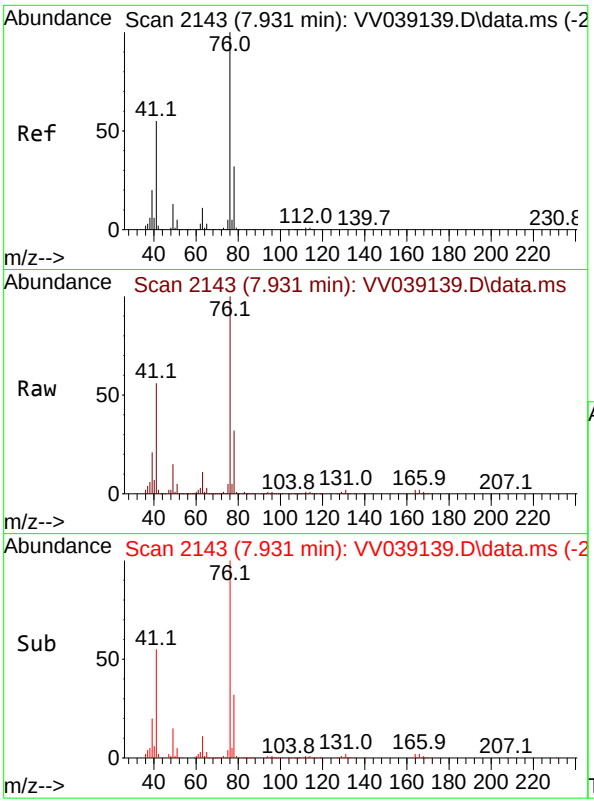


#56
Ethyl methacrylate
Concen: 58.632 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 69 Resp: 640636

Ion	Ratio	Lower	Upper
69	100		
41	63.4	50.7	76.1
39	32.5	26.0	39.0



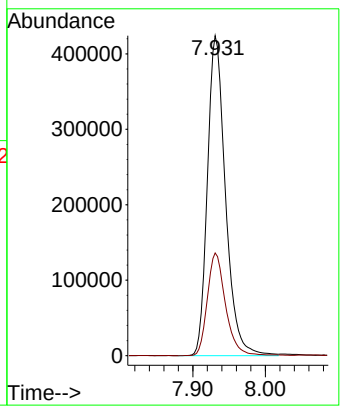


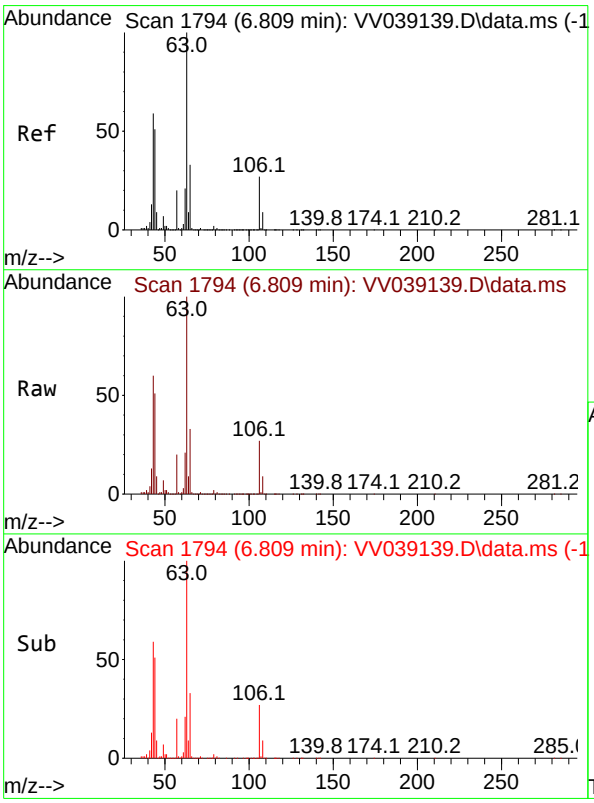
#57
1,3-Dichloropropane
Concen: 50.505 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 733341

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.1	39.1

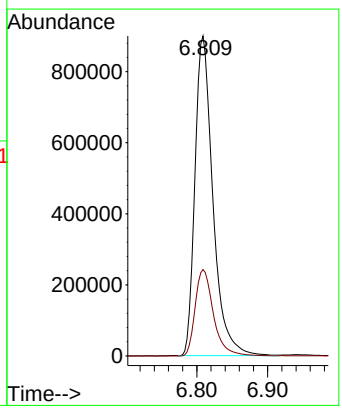


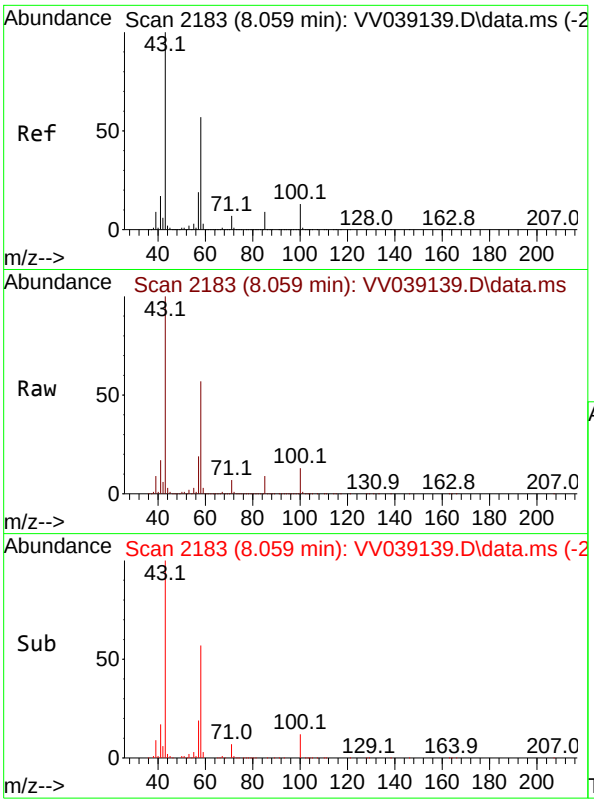


#58
2-Chloroethyl Vinyl ether
Concen: 255.700 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 63 Resp: 1579407

Ion	Ratio	Lower	Upper
63	100		
106	27.6	22.1	33.1



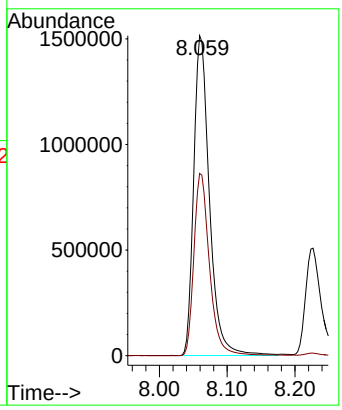


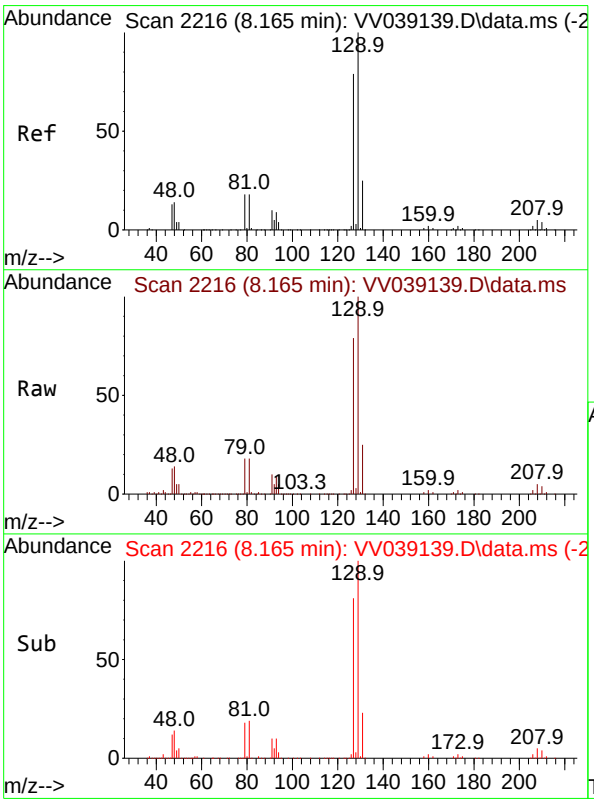
#59
2-Hexanone
Concen: 255.630 ug/l
RT: 8.059 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 2441880

Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.3	85.0

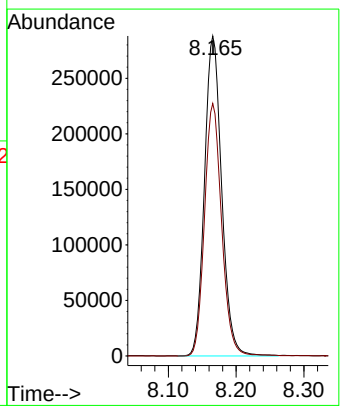


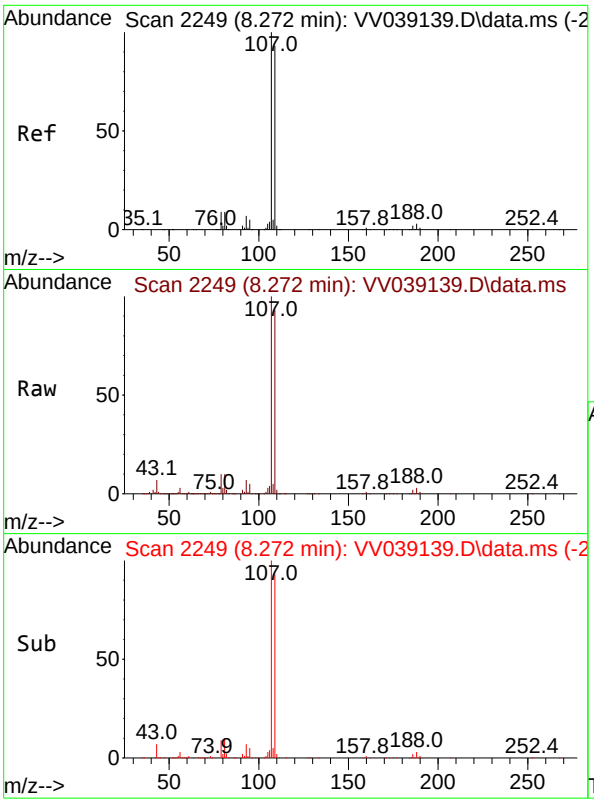


#60
Dibromochloromethane
Concen: 48.365 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:129 Resp: 507043

Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.3	117.9



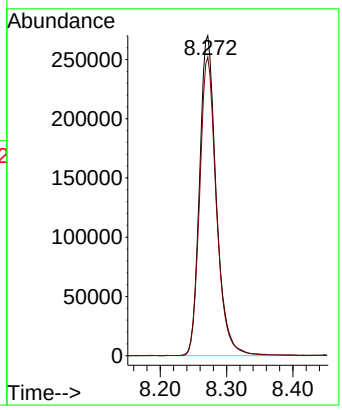


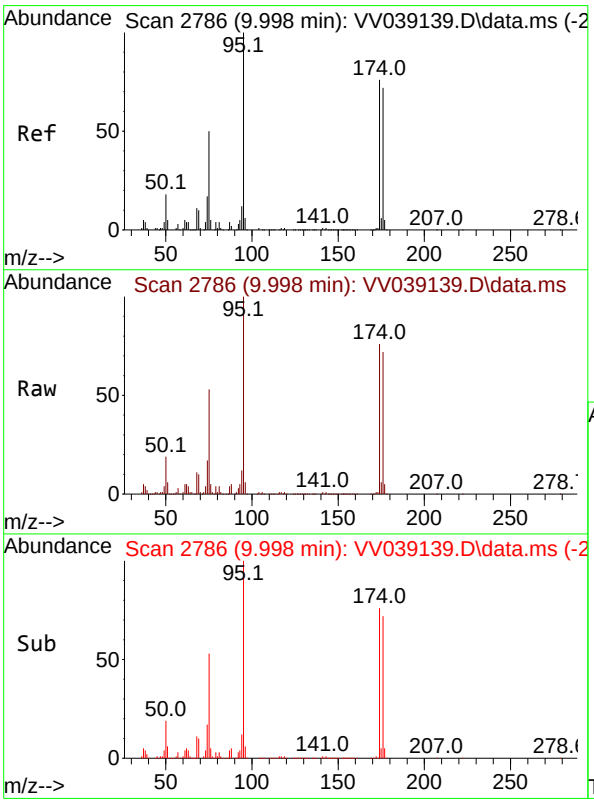
#61
1,2-Dibromoethane
Concen: 50.273 ug/l
RT: 8.272 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 473037

Ion	Ratio	Lower	Upper
107	100		
109	93.3	74.6	112.0

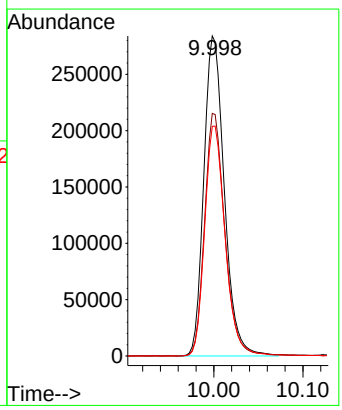


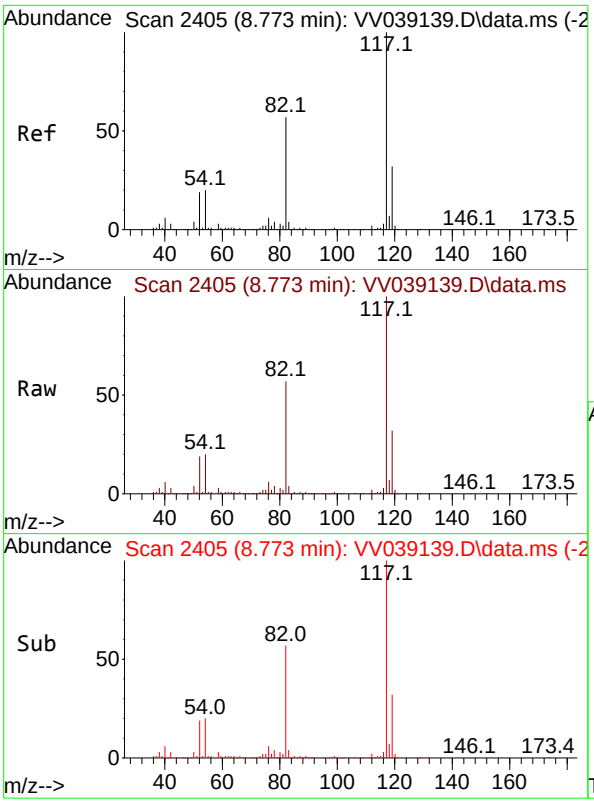


#62
4-Bromofluorobenzene
Concen: 52.130 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 95 Resp: 453081

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	150.4
176	72.1	0.0	144.2



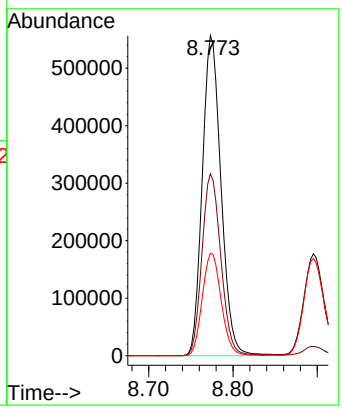


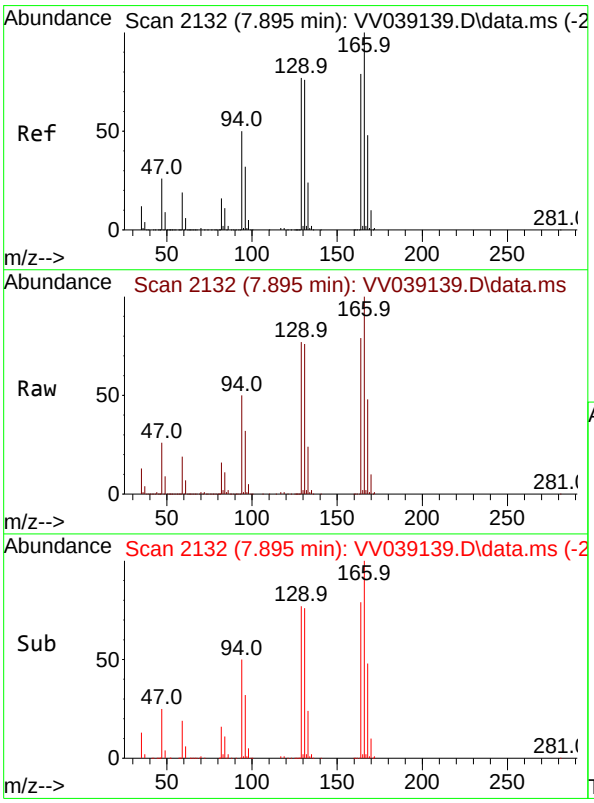
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 863906

Ion	Ratio	Lower	Upper
117	100		
82	56.8	45.4	68.2
119	32.0	25.6	38.4

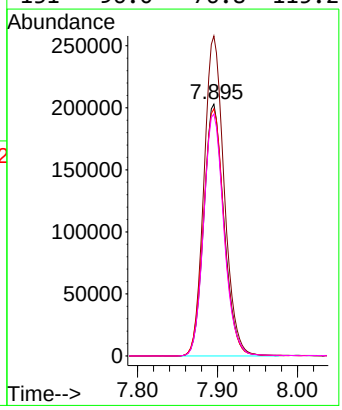


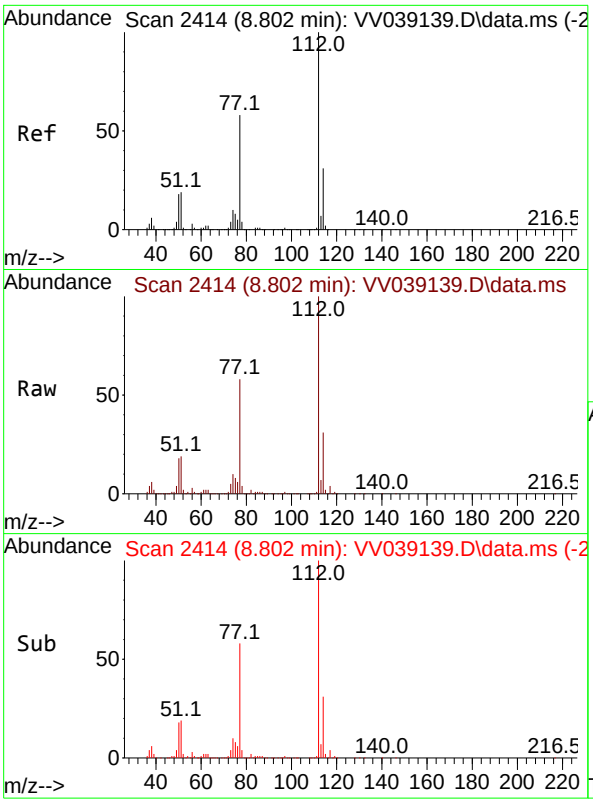


#64
Tetrachloroethene
Concen: 49.227 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:164 Resp: 356209

Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.6	152.4
129	98.1	78.5	117.7
131	96.0	76.8	115.2



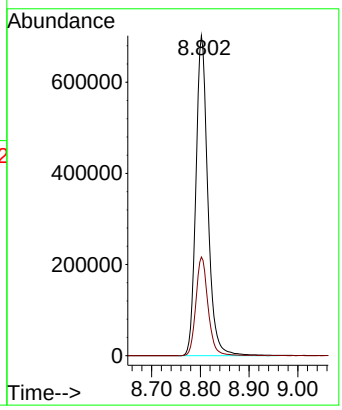


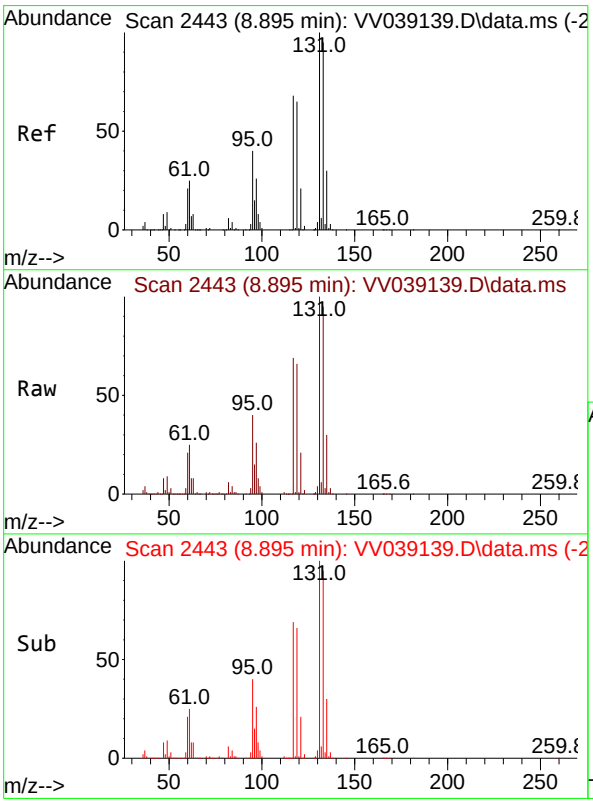
#65
Chlorobenzene
Concen: 49.651 ug/l
RT: 8.802 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 1194769

Ion	Ratio	Lower	Upper
112	100		
114	30.8	24.6	37.0

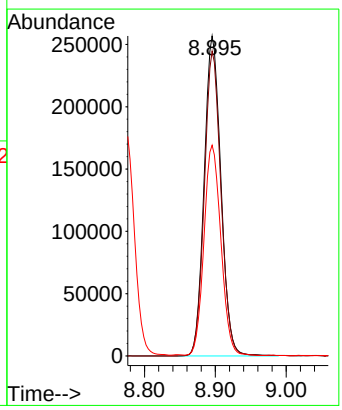


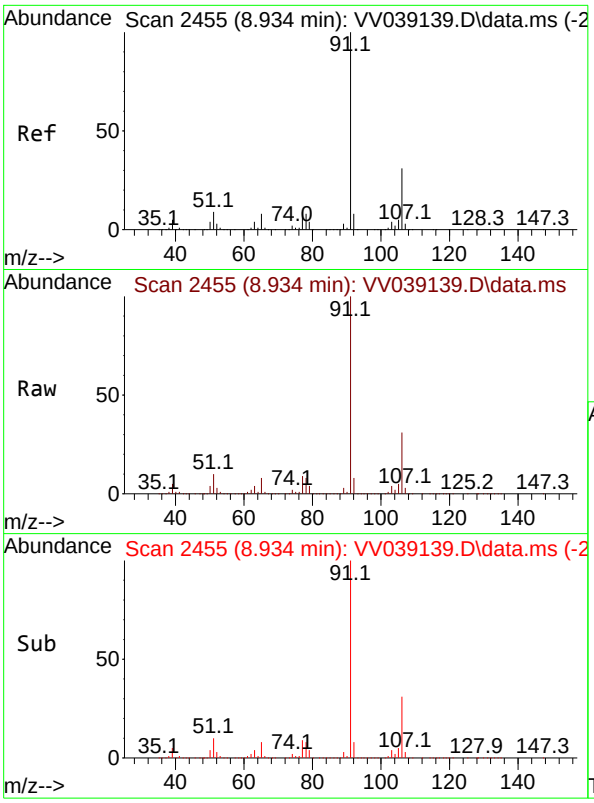


#66
1,1,1,2-Tetrachloroethane
Concen: 48.507 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:131 Resp: 421762

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	66.5	33.3	99.8



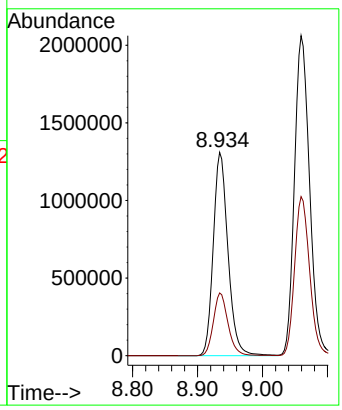


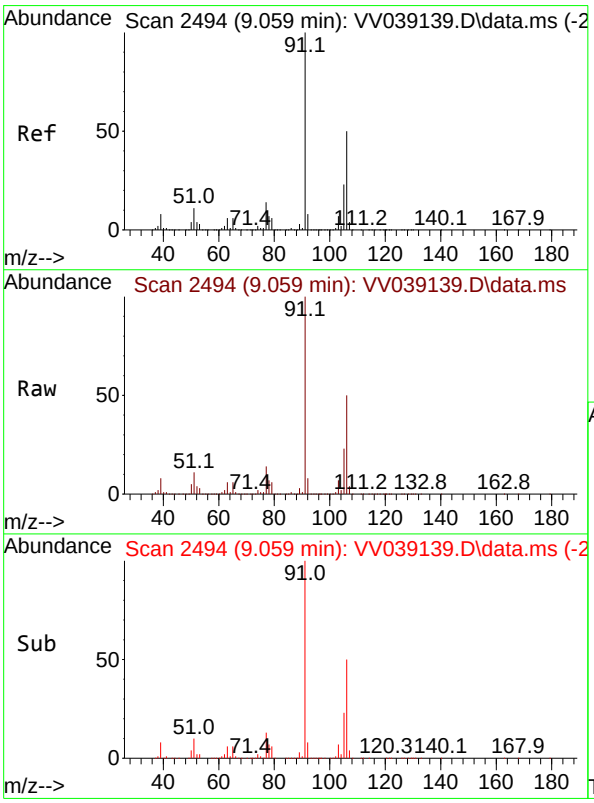
#67
Ethyl Benzene
Concen: 56.487 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 2057558

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	37.0

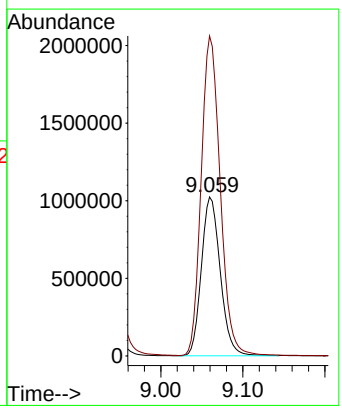


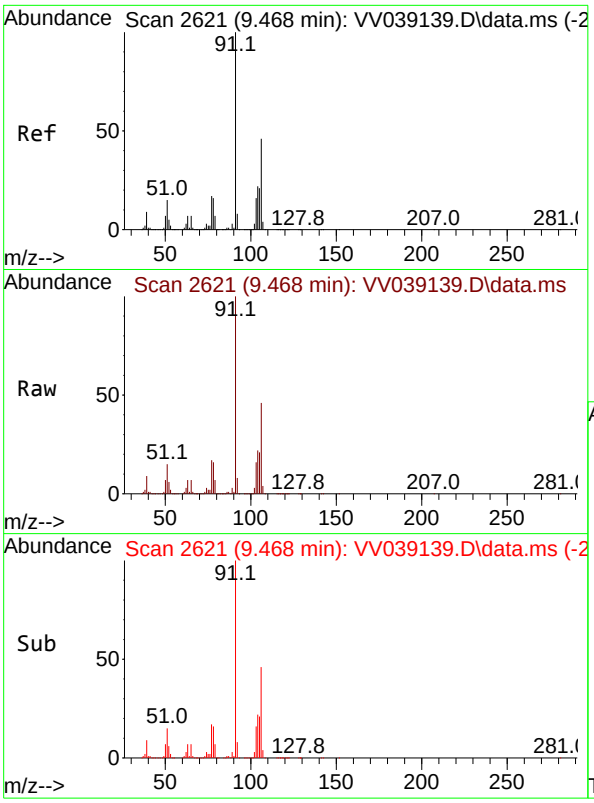


#68
m/p-Xylenes
Concen: 116.591 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:106 Resp: 1639130

Ion	Ratio	Lower	Upper
106	100		
91	203.1	162.5	243.7



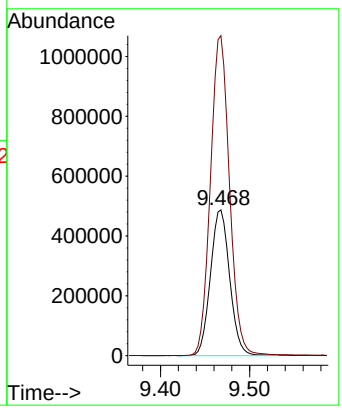


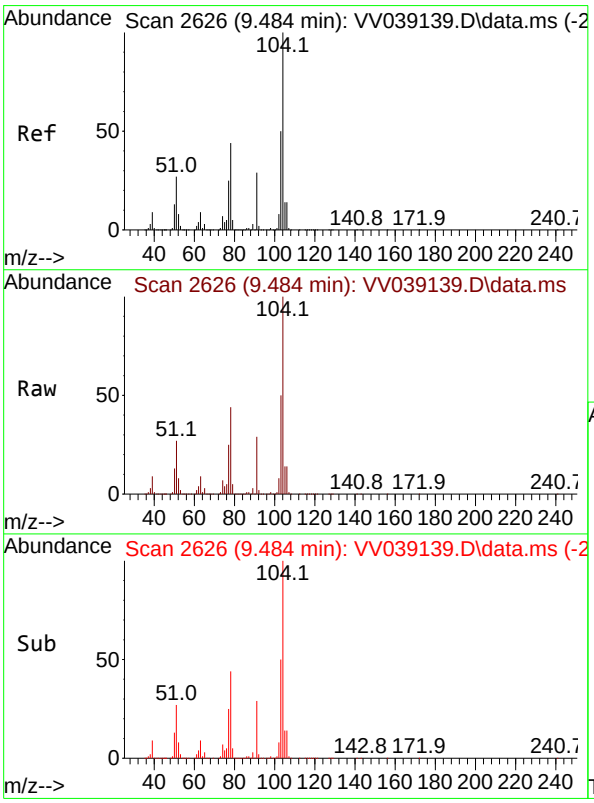
#69
o-Xylene
Concen: 58.688 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 730558

Ion	Ratio	Lower	Upper
106	100		
91	218.2	109.1	327.3

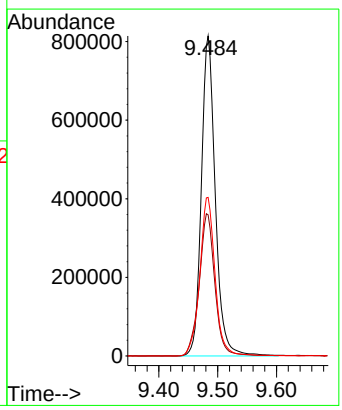


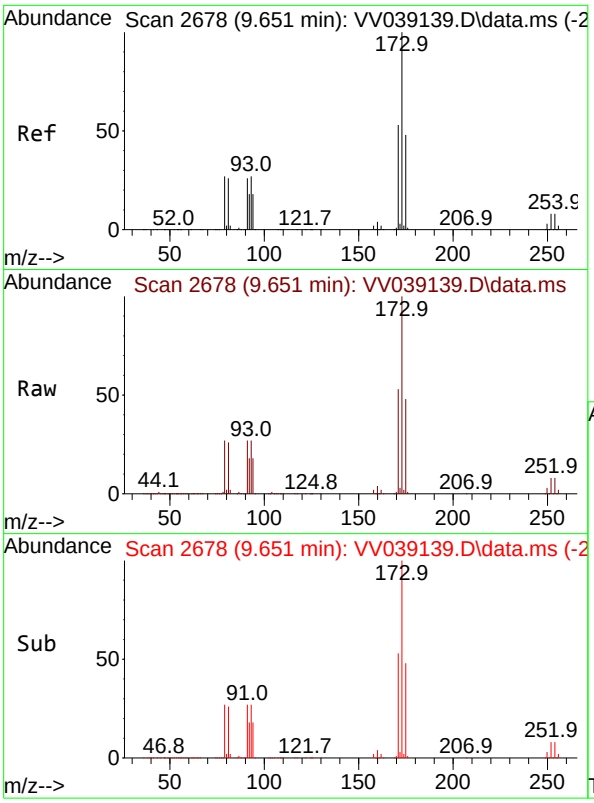


#70
Styrene
Concen: 50.845 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:104 Resp: 1341298

Ion	Ratio	Lower	Upper
104	100		
78	49.7	39.8	59.6
103	54.3	43.4	65.2



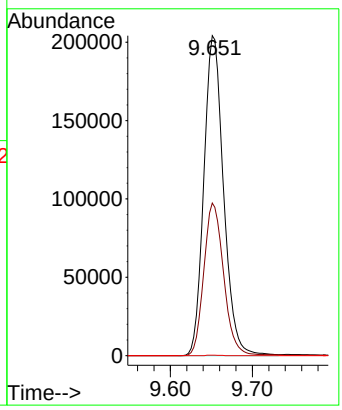


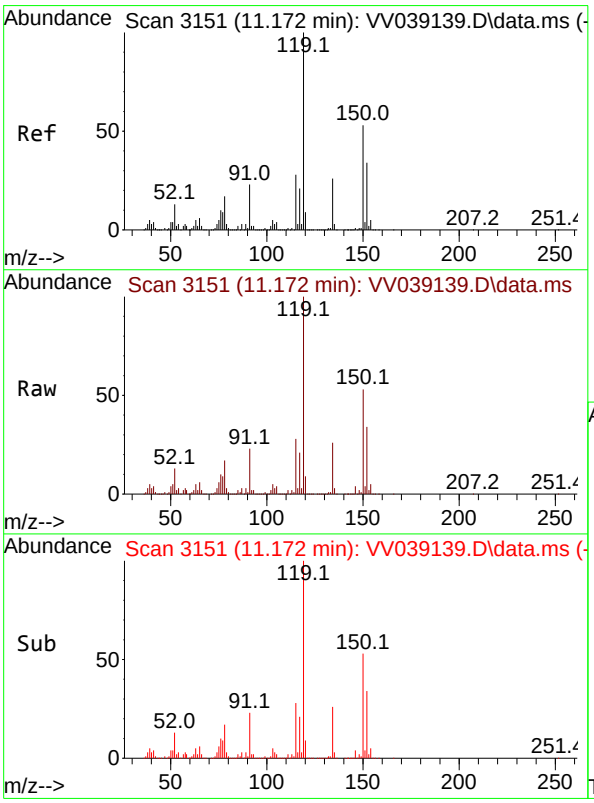
#71
Bromoform
Concen: 50.337 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 341871

Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.9	71.7
254	0.1	0.1	0.1

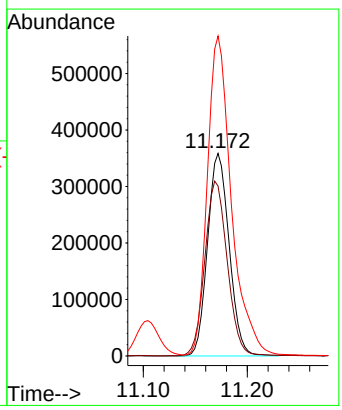


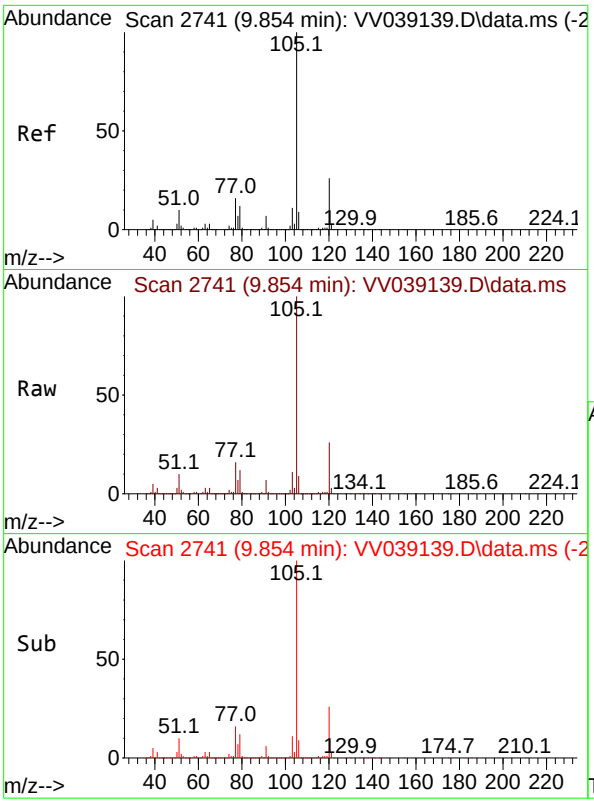


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:152 Resp: 516167

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.8	134.4
150	176.9	0.0	353.8



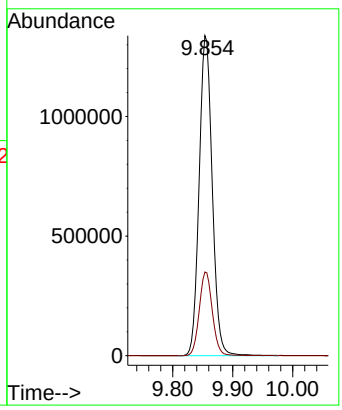


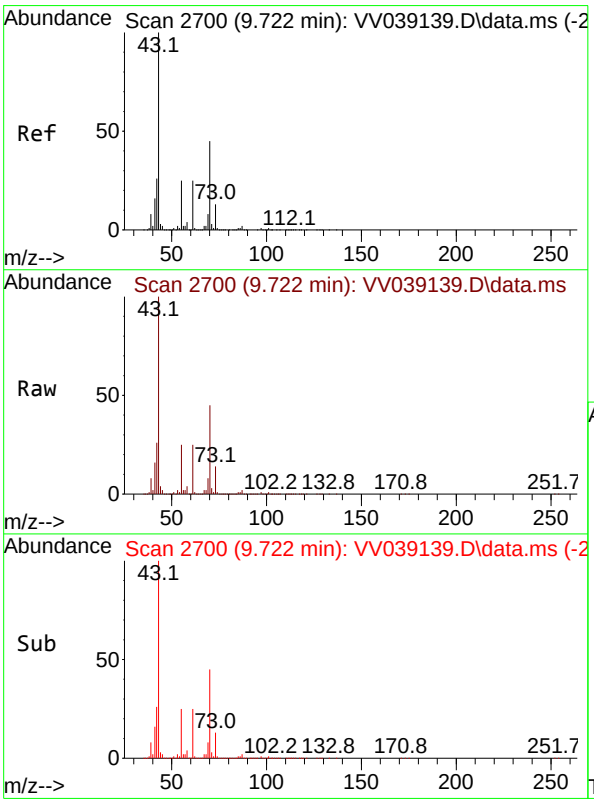
#73
Isopropylbenzene
Concen: 54.313 ug/l
RT: 9.854 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 2033373

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.1	39.1

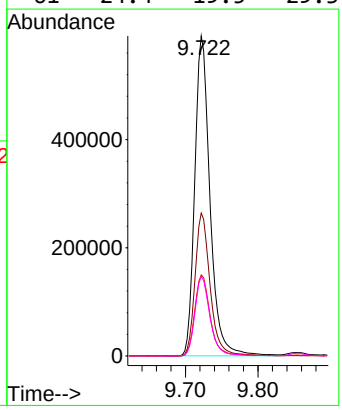


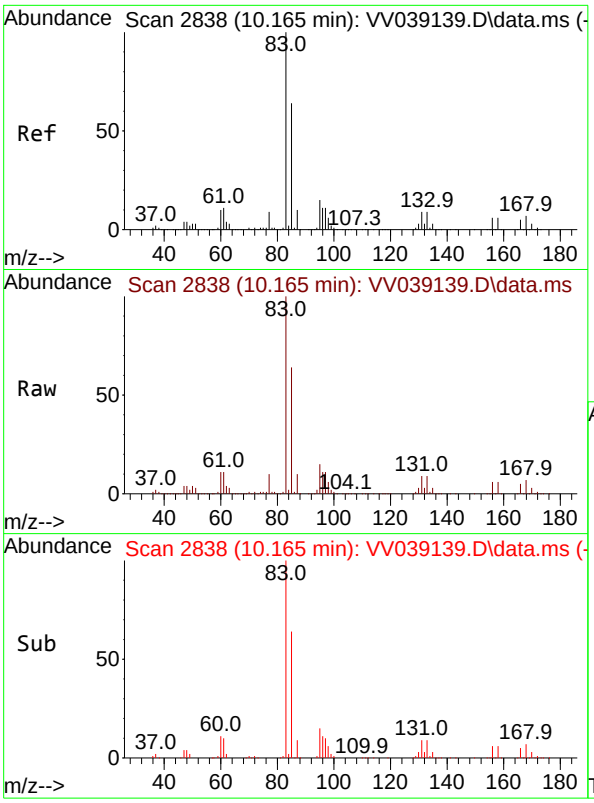


#74
N-amyl acetate
Concen: 57.833 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 863632

Ion	Ratio	Lower	Upper
43	100		
70	44.2	35.4	53.0
55	25.7	20.6	30.8
61	24.4	19.5	29.3



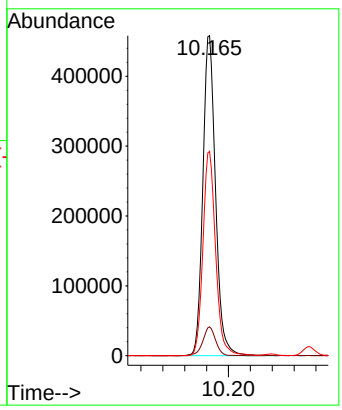


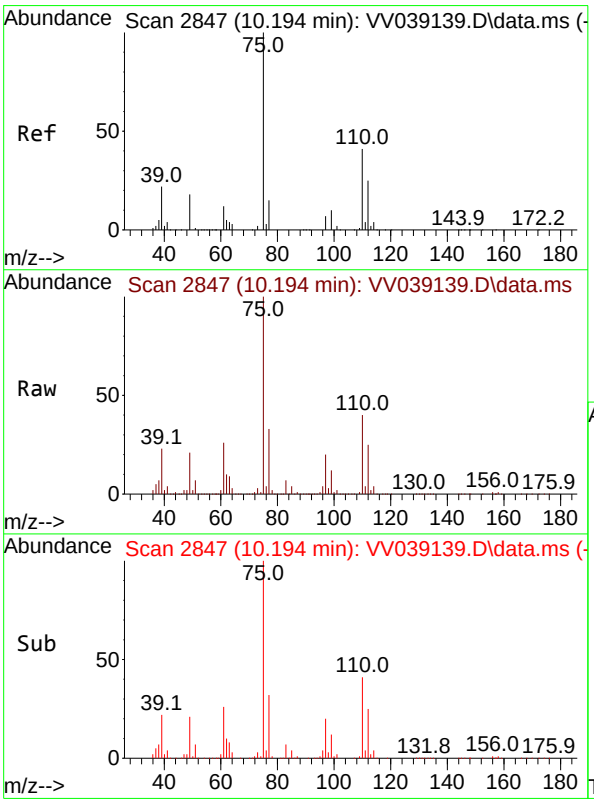
#75
1,1,2,2-Tetrachloroethane
Concen: 44.844 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 735590

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.7
85	63.9	31.9	95.9

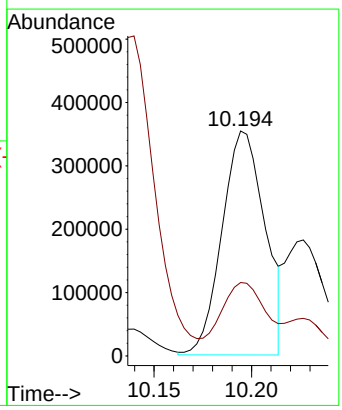


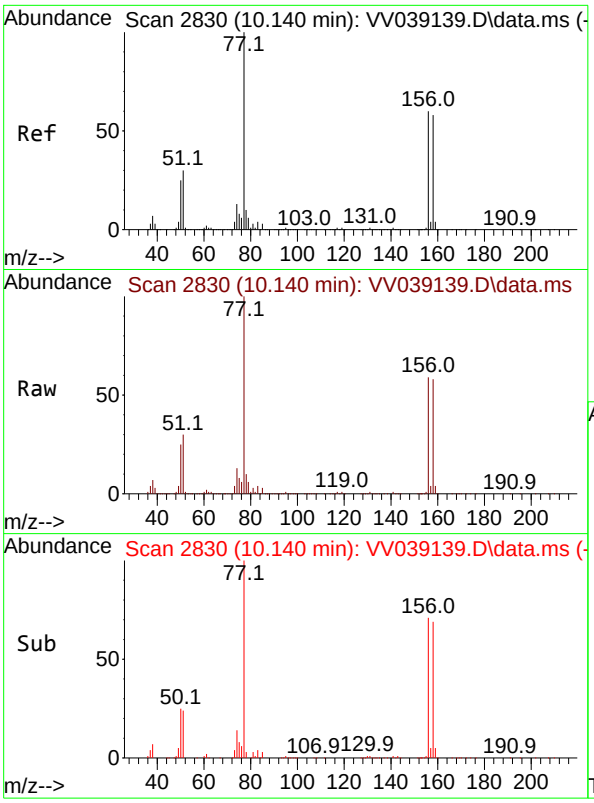


#76
1,2,3-Trichloropropane
Concen: 46.080 ug/l
RT: 10.194 min Scan# 2847
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 541552

Ion	Ratio	Lower	Upper
75	100		
77	22.5	11.3	33.8



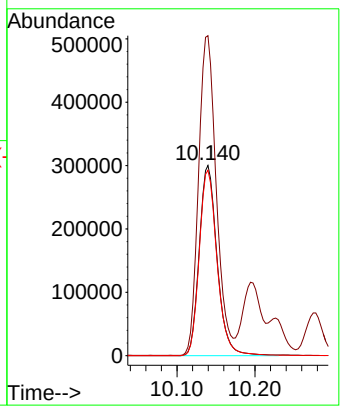


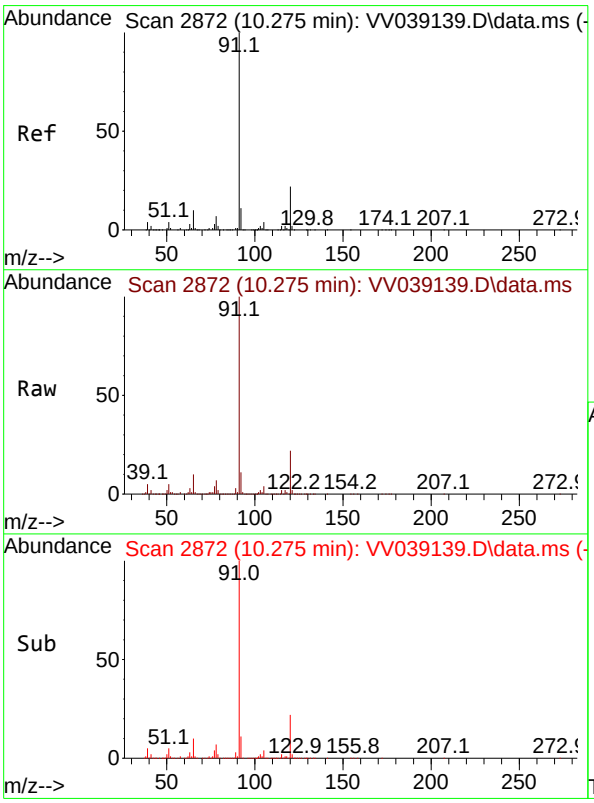
#77
Bromobenzene
Concen: 49.171 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 477608

Ion	Ratio	Lower	Upper
156	100		
77	166.7	83.4	250.1
158	97.6	48.8	146.4

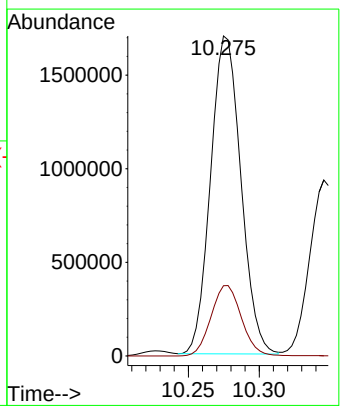


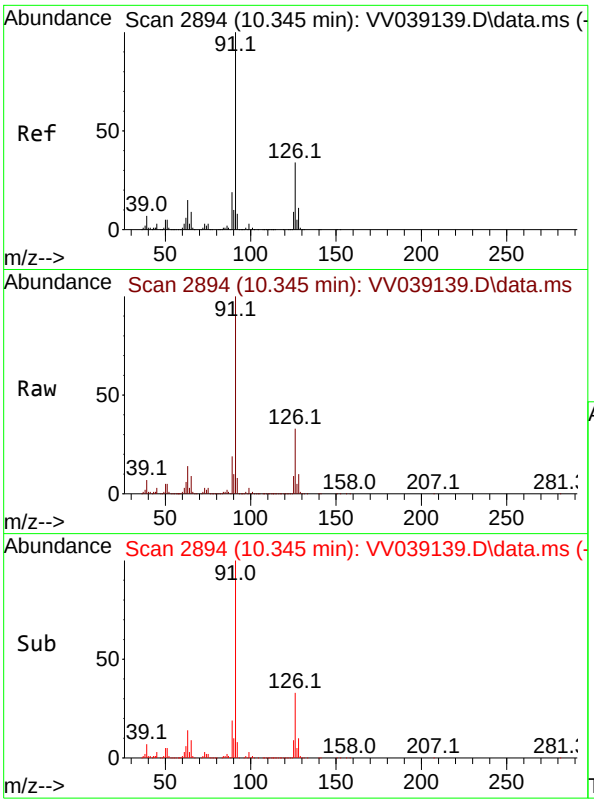


#78
n-propylbenzene
Concen: 55.461 ug/l
RT: 10.275 min Scan# 2872
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 2528458

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



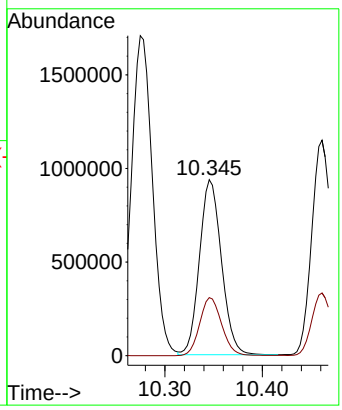


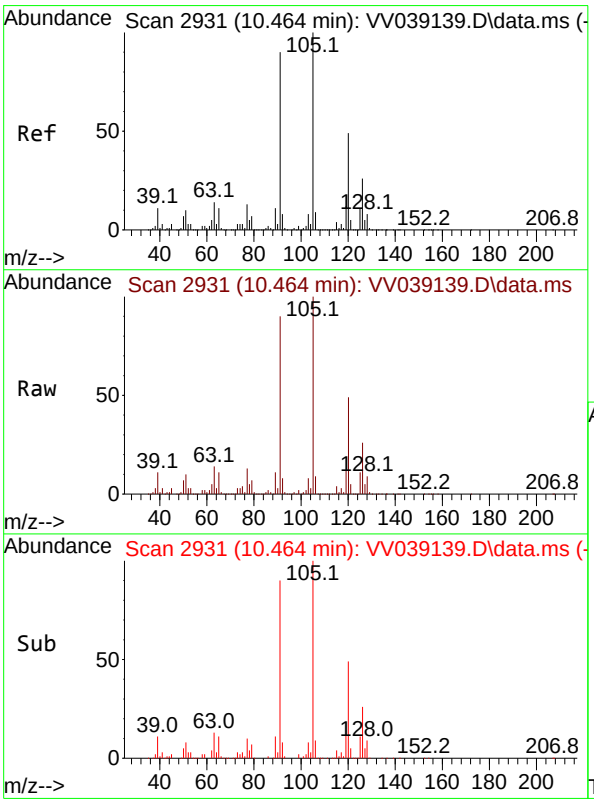
#79
2-Chlorotoluene
Concen: 53.612 ug/l
RT: 10.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1462530

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.0

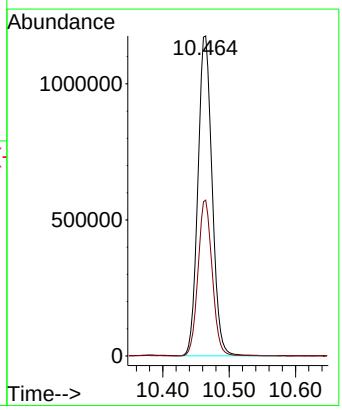


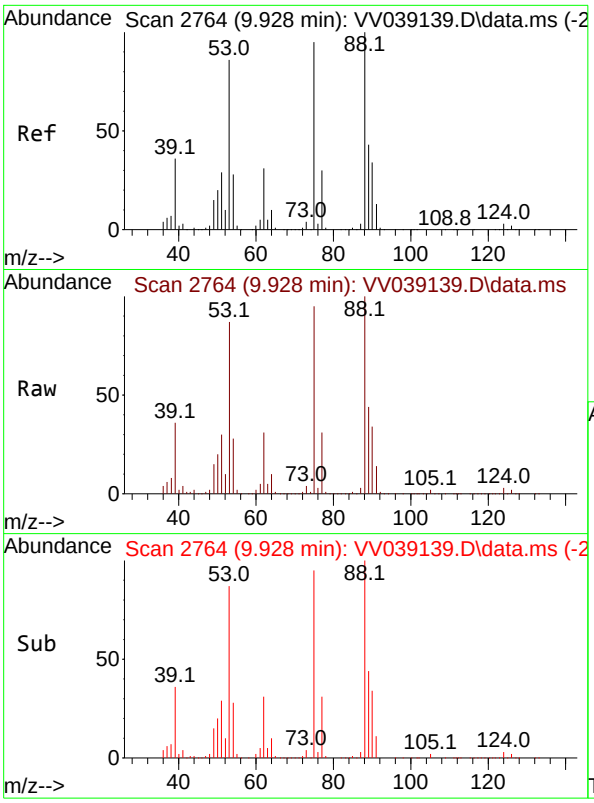


#80
1,3,5-Trimethylbenzene
Concen: 56.188 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:105 Resp: 1748435

Ion	Ratio	Lower	Upper
105	100		
120	48.5	24.3	72.8



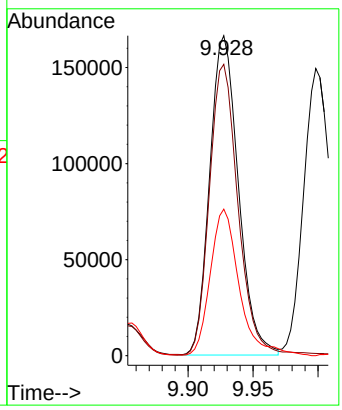


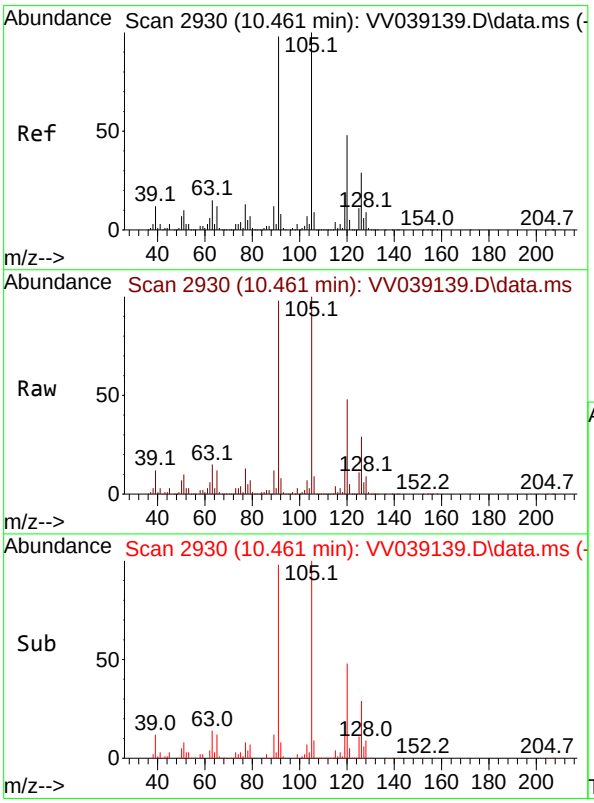
#81
trans-1,4-Dichloro-2-butene
Concen: 52.143 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 255259

Ion	Ratio	Lower	Upper
75	100		
53	90.6	72.5	108.7
89	46.5	37.2	55.8

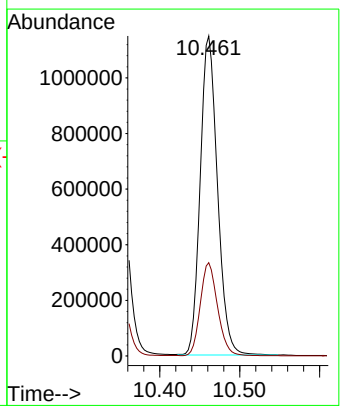


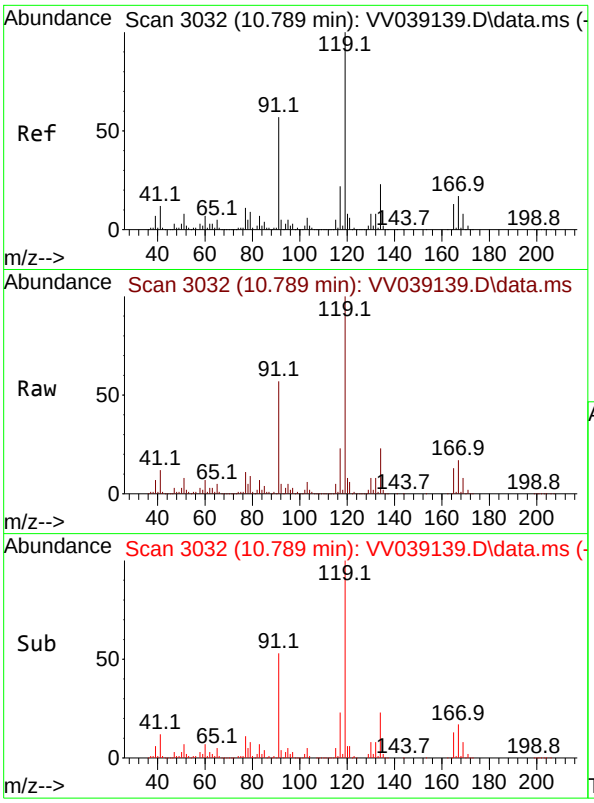


#82
4-Chlorotoluene
Concen: 54.466 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 1722899

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.6



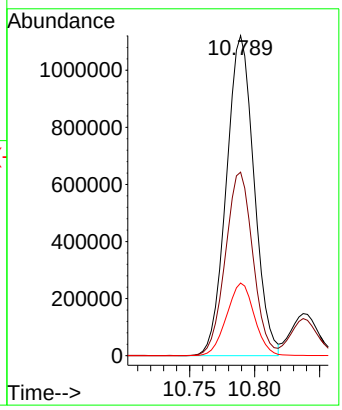


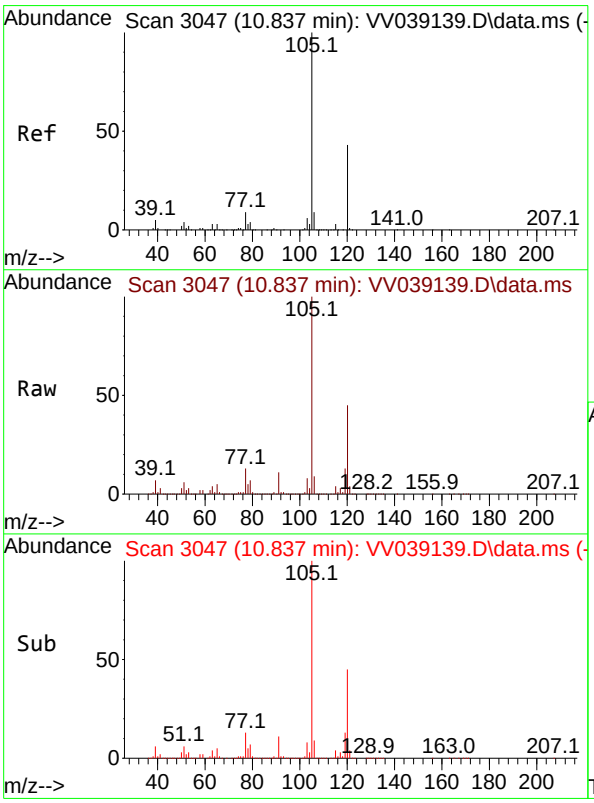
#83
tert-Butylbenzene
Concen: 53.602 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 1663245

Ion	Ratio	Lower	Upper
119	100		
91	57.1	28.5	85.6
134	22.9	11.5	34.4

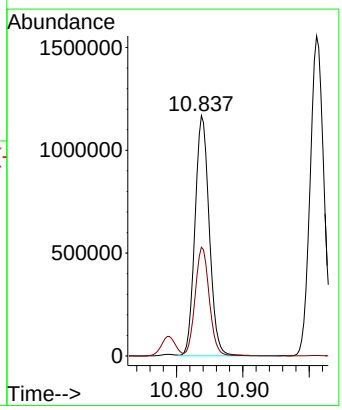


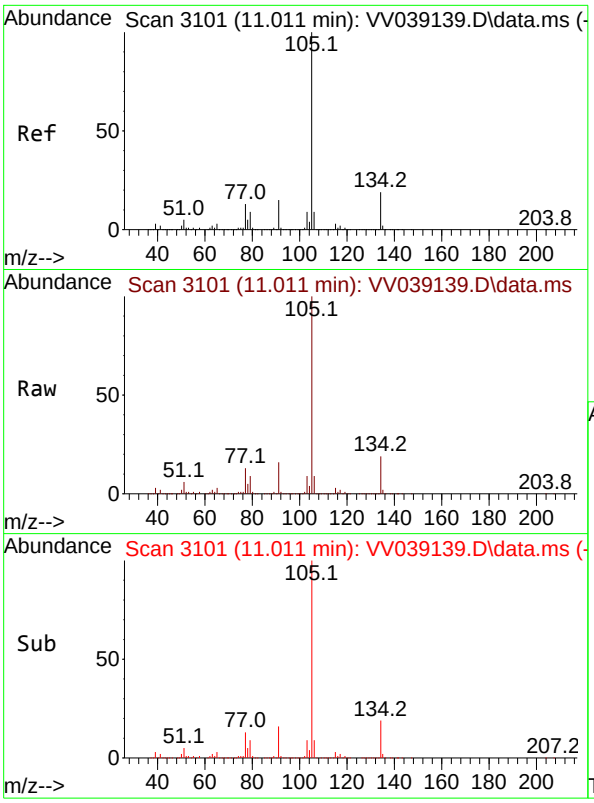


#84
1,2,4-Trimethylbenzene
Concen: 57.709 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:105 Resp: 1743425

Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.4	67.2



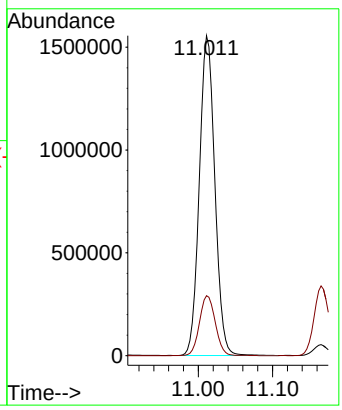


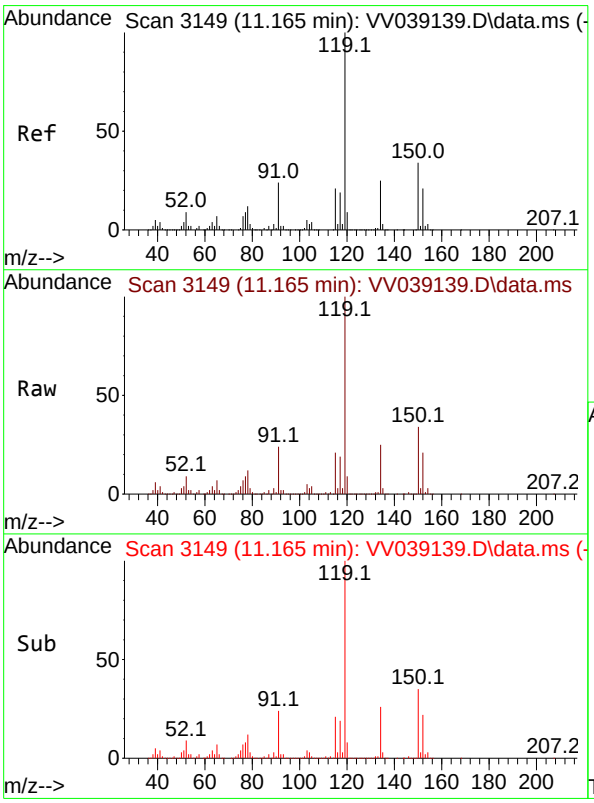
#85
sec-Butylbenzene
Concen: 54.737 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 2252781

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.6	28.8

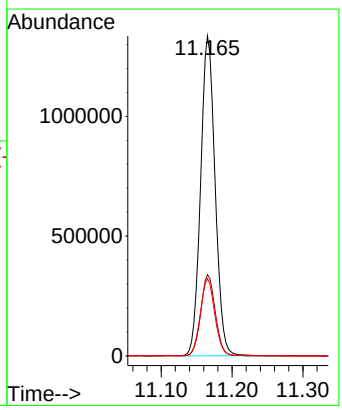


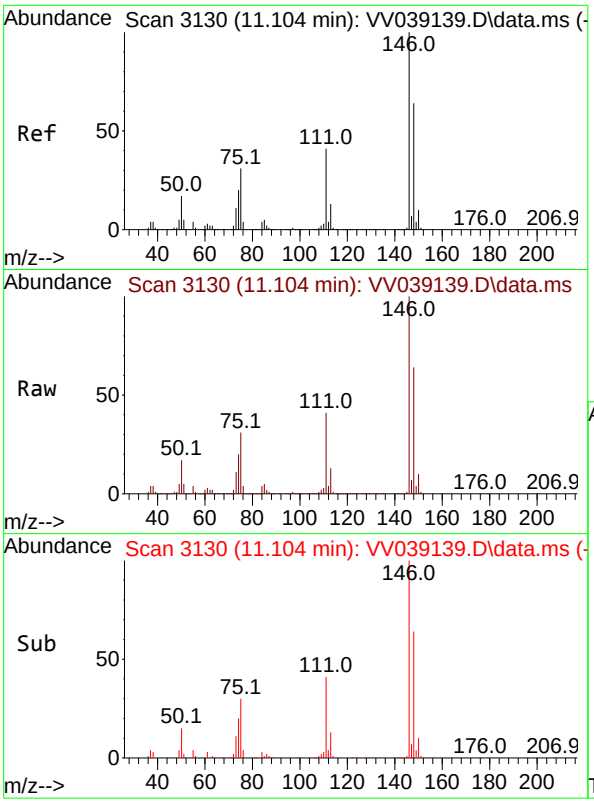


#86
p-Isopropyltoluene
Concen: 55.479 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:119 Resp: 1900412

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	24.1	12.0	36.1



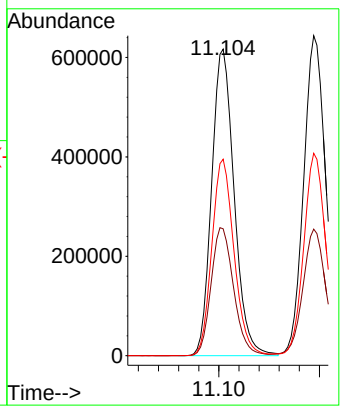


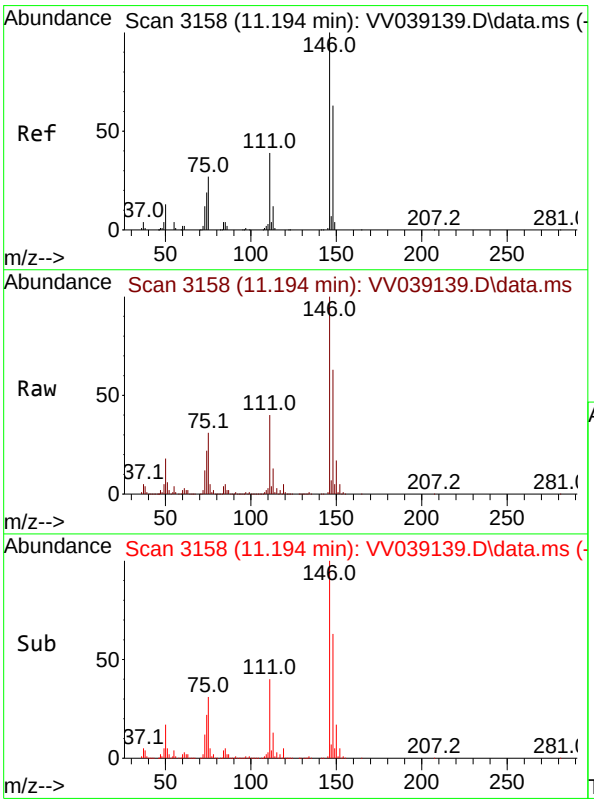
#87
1,3-Dichlorobenzene
Concen: 48.769 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 958701

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.9	62.8
148	63.5	31.8	95.3

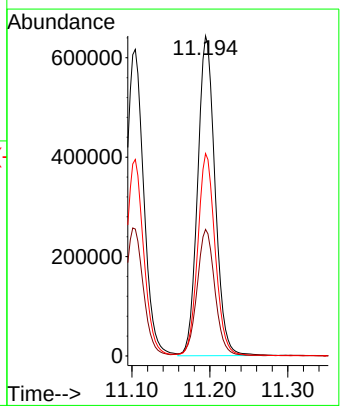


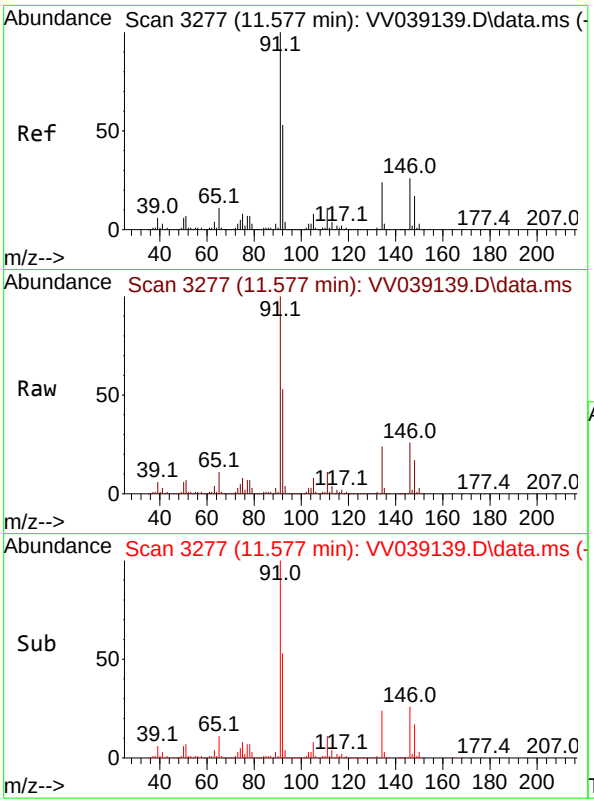


#88
1,4-Dichlorobenzene
Concen: 45.957 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:146 Resp: 998426

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.3	60.8
148	62.8	31.4	94.2



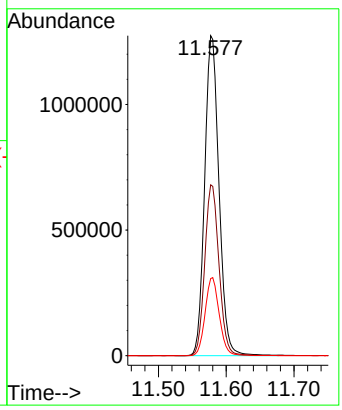


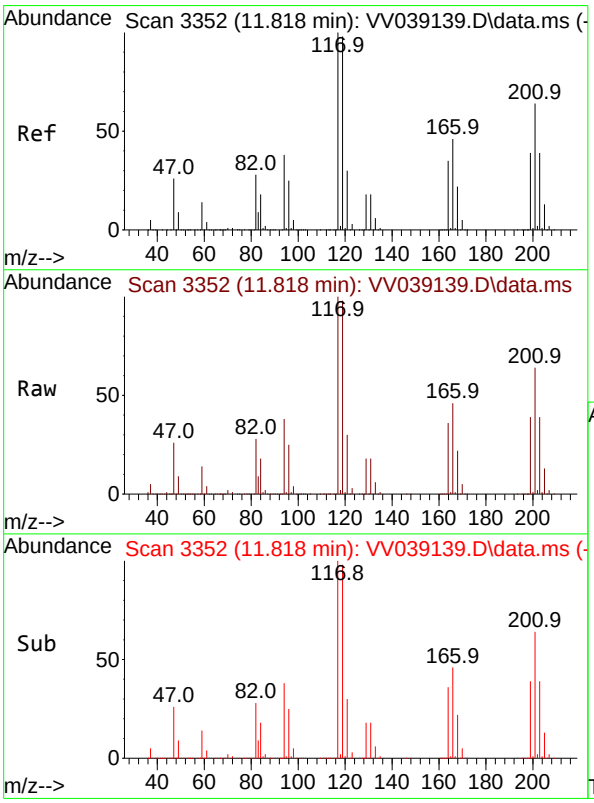
#89
n-Butylbenzene
Concen: 57.003 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1864844

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.6	79.8
134	24.2	12.1	36.3

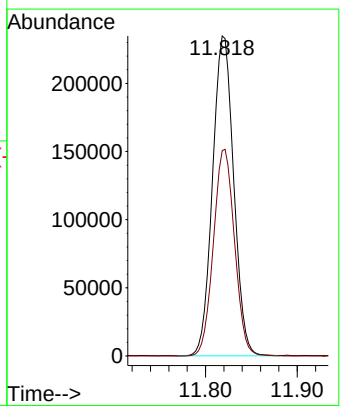


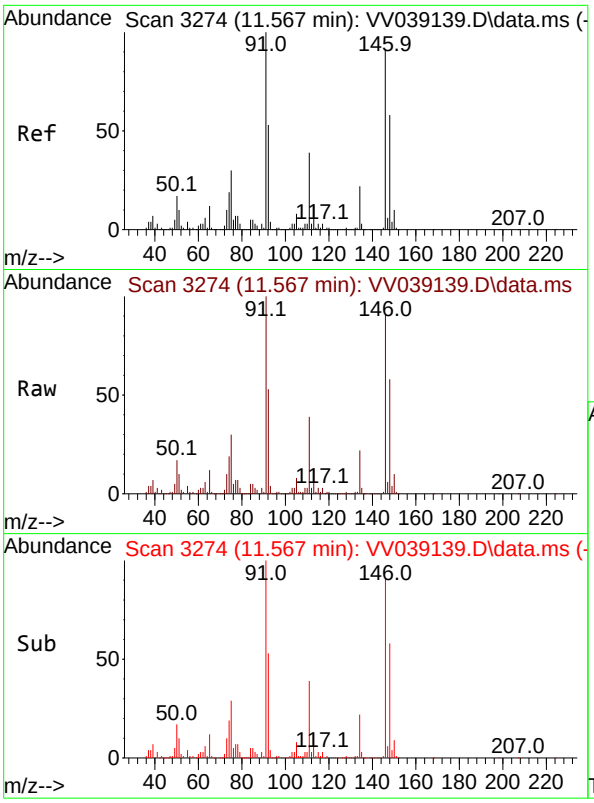


#90
Hexachloroethane
Concen: 44.553 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:117 Resp: 375818

Ion	Ratio	Lower	Upper
117	100		
201	64.5	32.3	96.8



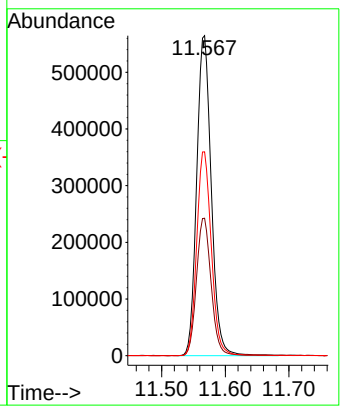


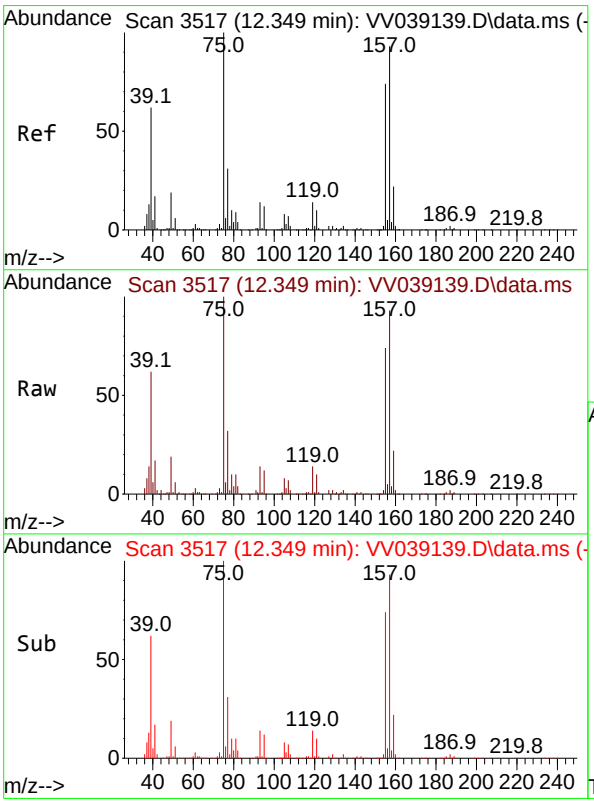
#91
1,2-Dichlorobenzene
Concen: 48.848 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 897135

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	63.8	31.9	95.7

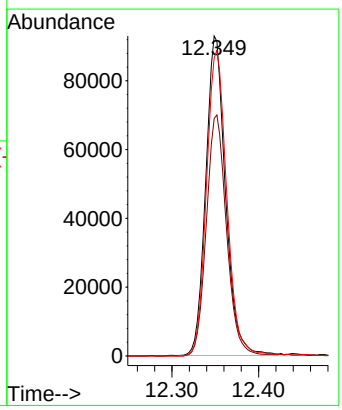


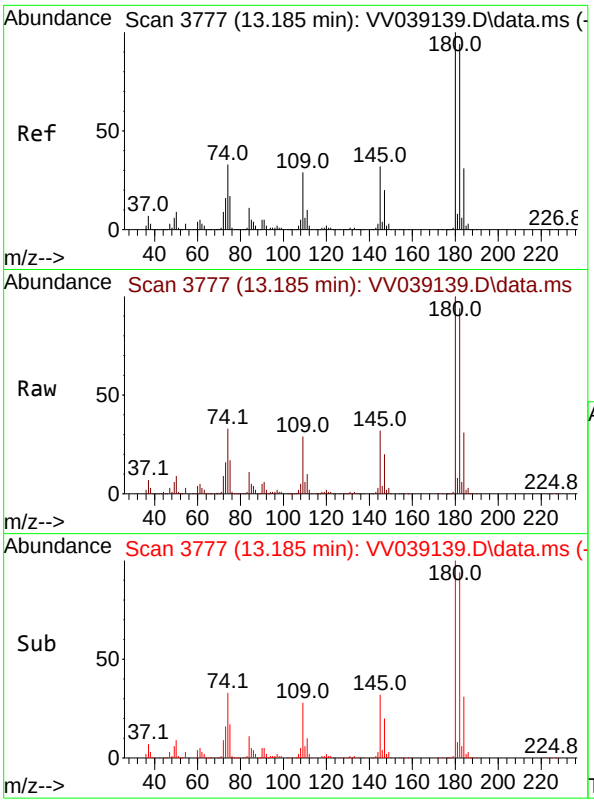


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.928 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 147329

Ion	Ratio	Lower	Upper
75	100		
155	77.2	38.6	115.8
157	98.9	49.5	148.3



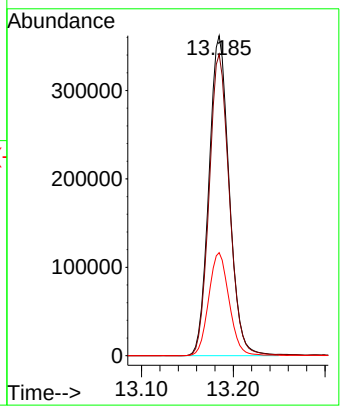


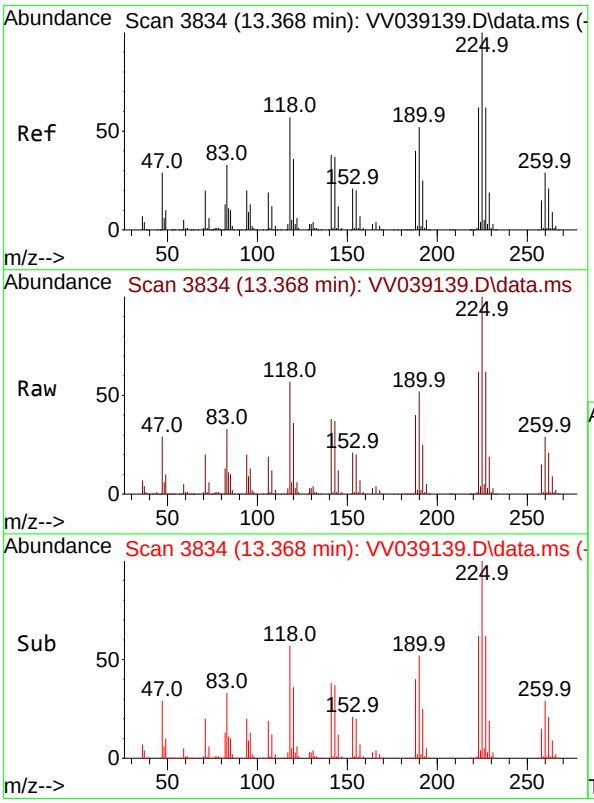
#93
1,2,4-Trichlorobenzene
Concen: 52.747 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 555323

Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.4
145	32.5	16.3	48.8

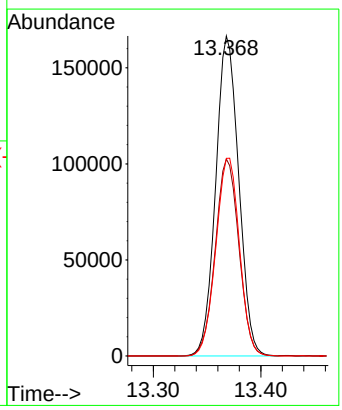


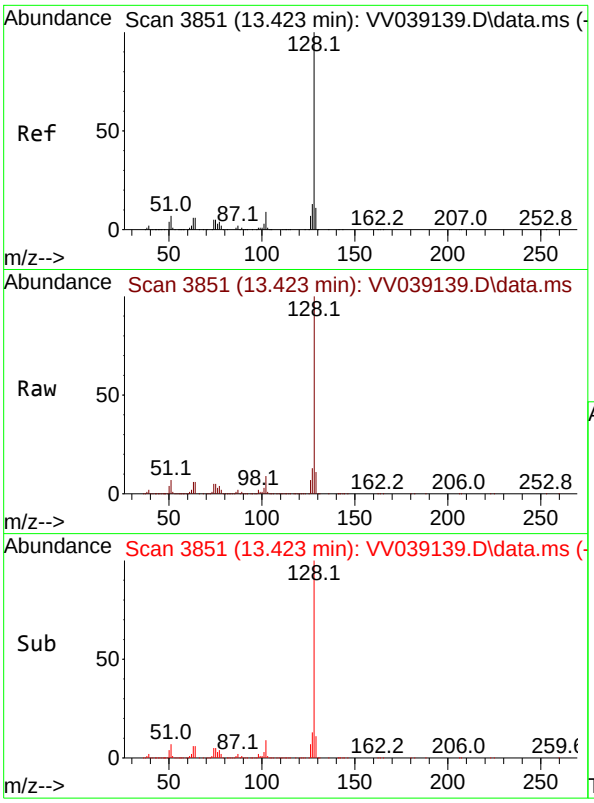


#94
Hexachlorobutadiene
Concen: 45.279 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:225 Resp: 247695

Ion	Ratio	Lower	Upper
225	100		
223	63.1	31.6	94.7
227	63.6	31.8	95.4



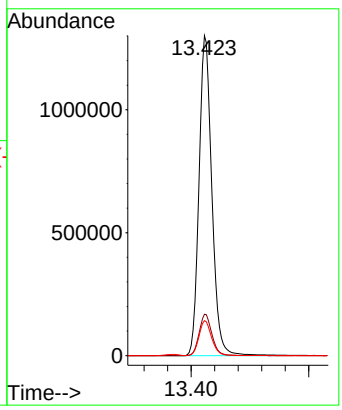


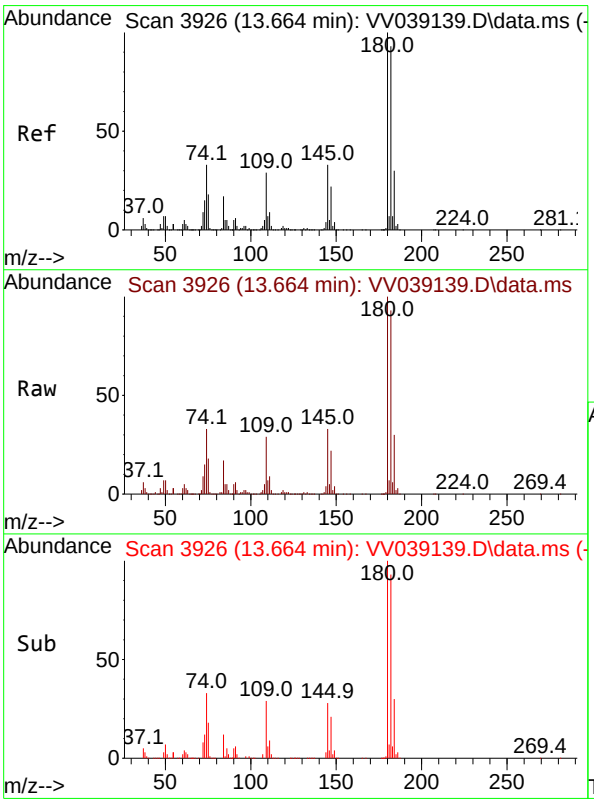
#95
Naphthalene
Concen: 58.135 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 1968567

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.8	8.6	13.0

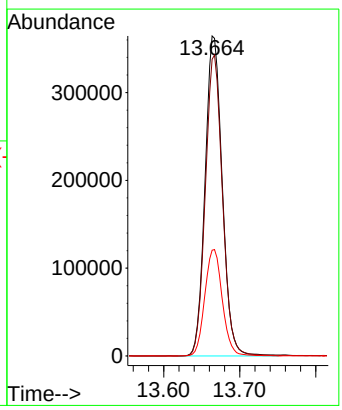




#96
1,2,3-Trichlorobenzene
Concen: 53.081 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:180 Resp: 571563

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.9	140.8
145	34.0	17.0	51.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	587274	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	935392	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	904902	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	523452	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	725543	85.362	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 170.720%#			
35) Dibromofluoromethane	4.500	113	674408	89.684	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 179.360%#			
50) Toluene-d8	7.236	98	2052477	92.932	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 185.860%#			
62) 4-Bromofluorobenzene	9.998	95	937505	103.112	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 206.220%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	820676	88.278	ug/l	99
3) Chloromethane	1.230	50	856347	85.806	ug/l	98
4) Vinyl Chloride	1.298	62	940694	88.044	ug/l	99
5) Bromomethane	1.487	94	615924	91.446	ug/l	99
6) Chloroethane	1.555	64	587651	100.067	ug/l	99
7) Trichlorofluoromethane	1.722	101	1351410	87.363	ug/l	99
8) Diethyl Ether	1.918	74	511033	88.990	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.079	101	806216	87.593	ug/l	98
10) Methyl Iodide	2.195	142	931666	106.294	ug/l	100
11) Tert butyl alcohol	2.574	59	798702	444.608	ug/l	99
12) 1,1-Dichloroethene	2.079	96	778436	87.914	ug/l	98
13) Acrolein	2.008	56	160749	515.691	ug/l	99
14) Allyl chloride	2.355	41	1418889	89.708	ug/l	99
15) Acrylonitrile	2.674	53	2509475	435.771	ug/l	100
16) Acetone	2.118	43	2432444	499.795	ug/l	100
17) Carbon Disulfide	2.253	76	2332239	86.125	ug/l	99
18) Methyl Acetate	2.378	43	1142900	90.753	ug/l	100
19) Methyl tert-butyl Ether	2.712	73	2586428	91.667	ug/l	99
20) Methylene Chloride	2.455	84	870955	100.038	ug/l	99
21) trans-1,2-Dichloroethene	2.699	96	817275	86.701	ug/l	98
22) Diisopropyl ether	3.217	45	2857568	94.428	ug/l	94
23) Vinyl Acetate	3.188	43	12498986	472.148	ug/l	99
24) 1,1-Dichloroethane	3.117	63	1560774	84.338	ug/l	99
25) 2-Butanone	3.863	43	3404031	508.801	ug/l	99
26) 2,2-Dichloropropane	3.812	77	1414724	86.559	ug/l	100
27) cis-1,2-Dichloroethene	3.818	96	1010617	97.210	ug/l	99
28) Bromochloromethane	4.146	49	748549	91.624	ug/l	98
29) Tetrahydrofuran	4.233	42	2198745	516.116	ug/l	99
30) Chloroform	4.278	83	1682895	87.087	ug/l	98
31) Cyclohexane	4.580	56	1473260	97.182	ug/l	97
32) 1,1,1-Trichloroethane	4.513	97	1483938	88.700	ug/l	99
36) 1,1-Dichloropropene	4.741	75	1144520	99.944	ug/l	100
37) Ethyl Acetate	3.973	43	1328655	94.580	ug/l	98
38) Carbon Tetrachloride	4.735	117	1263028	91.566	ug/l	100
39) Methylcyclohexane	6.047	83	1603169	116.766	ug/l	98
40) Benzene	5.008	78	3611886	97.560	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.156	41	639301	100.494	ug/l	99
42) 1,2-Dichloroethane	5.037	62	1202991	92.737	ug/l	100
43) Isopropyl Acetate	5.191	43	2058622	106.372	ug/l	100
44) Trichloroethene	5.828	130	849813	99.474	ug/l	97
45) 1,2-Dichloropropane	6.088	63	909288	98.813	ug/l	95
46) Dibromomethane	6.220	93	661336	93.898	ug/l	98
47) Bromodichloromethane	6.426	83	1355845	93.118	ug/l	99
48) Methyl methacrylate	6.294	41	984431	111.182	ug/l	99
49) 1,4-Dioxane	6.288	88	304943	2191.331	ug/l	95
51) 4-Methyl-2-Pentanone	7.149	43	6674594	539.372	ug/l	99
52) Toluene	7.307	92	2271340	105.813	ug/l	99
53) t-1,3-Dichloropropene	7.571	75	1408125	110.970	ug/l	97
54) cis-1,3-Dichloropropene	6.947	75	1501380	107.178	ug/l	100
55) 1,1,2-Trichloroethane	7.757	97	897804	93.280	ug/l	99
56) Ethyl methacrylate	7.712	69	1424432	124.621	ug/l	99
57) 1,3-Dichloropropane	7.931	76	1501225	98.832	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.812	63	3282267	498.705	ug/l	100
59) 2-Hexanone	8.063	43	4988835	497.186	ug/l	99
60) Dibromochloromethane	8.165	129	1044126	95.206	ug/l	99
61) 1,2-Dibromoethane	8.272	107	960914	97.622	ug/l	98
64) Tetrachloroethene	7.895	164	736462	97.167	ug/l	97
65) Chlorobenzene	8.802	112	2457021	97.480	ug/l	97
66) 1,1,1,2-Tetrachloroethane	8.895	131	863523	94.816	ug/l	100
67) Ethyl Benzene	8.934	91	4376266	114.700	ug/l	100
68) m/p-Xylenes	9.059	106	3396653	230.657	ug/l	100
69) o-Xylene	9.468	106	1592963	122.170	ug/l	98
70) Styrene	9.484	104	2781887	99.832	ug/l	100
71) Bromoform	9.651	173	724467	101.838	ug/l	99
73) Isopropylbenzene	9.854	105	4288139	112.946	ug/l	100
74) N-amyl acetate	9.722	43	1846779	121.948	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.165	83	1453989	87.406	ug/l	100
76) 1,2,3-Trichloropropane	10.198	75	1070580	89.827	ug/l	95
77) Bromobenzene	10.140	156	993863	100.897	ug/l	99
78) n-propylbenzene	10.278	91	5220220	112.910	ug/l	99
79) 2-Chlorotoluene	10.345	91	3018051	109.093	ug/l	99
80) 1,3,5-Trimethylbenzene	10.464	105	3638030	115.284	ug/l	100
81) trans-1,4-Dichloro-2-b...	9.927	75	545452	109.871	ug/l	97
82) 4-Chlorotoluene	10.461	91	3573507	111.396	ug/l	100
83) tert-Butylbenzene	10.789	119	3572813	113.541	ug/l	99
84) 1,2,4-Trimethylbenzene	10.837	105	3601355	117.550	ug/l	100
85) sec-Butylbenzene	11.011	105	4763689	114.135	ug/l	100
86) p-Isopropyltoluene	11.165	119	3948556	113.666	ug/l	99
87) 1,3-Dichlorobenzene	11.104	146	1970594	98.849	ug/l	99
88) 1,4-Dichlorobenzene	11.194	146	2008676	91.172	ug/l	99
89) n-Butylbenzene	11.577	91	3939852	118.754	ug/l	99
90) Hexachloroethane	11.818	117	776688	90.794	ug/l	99
91) 1,2-Dichlorobenzene	11.564	146	1886394	101.282	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.349	75	316446	100.015	ug/l	96
93) 1,2,4-Trichlorobenzene	13.185	180	1244510	116.564	ug/l	100
94) Hexachlorobutadiene	13.368	225	524789	94.597	ug/l	99
95) Naphthalene	13.423	128	4442612	129.371	ug/l	100
96) 1,2,3-Trichlorobenzene	13.667	180	1246406	114.143	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

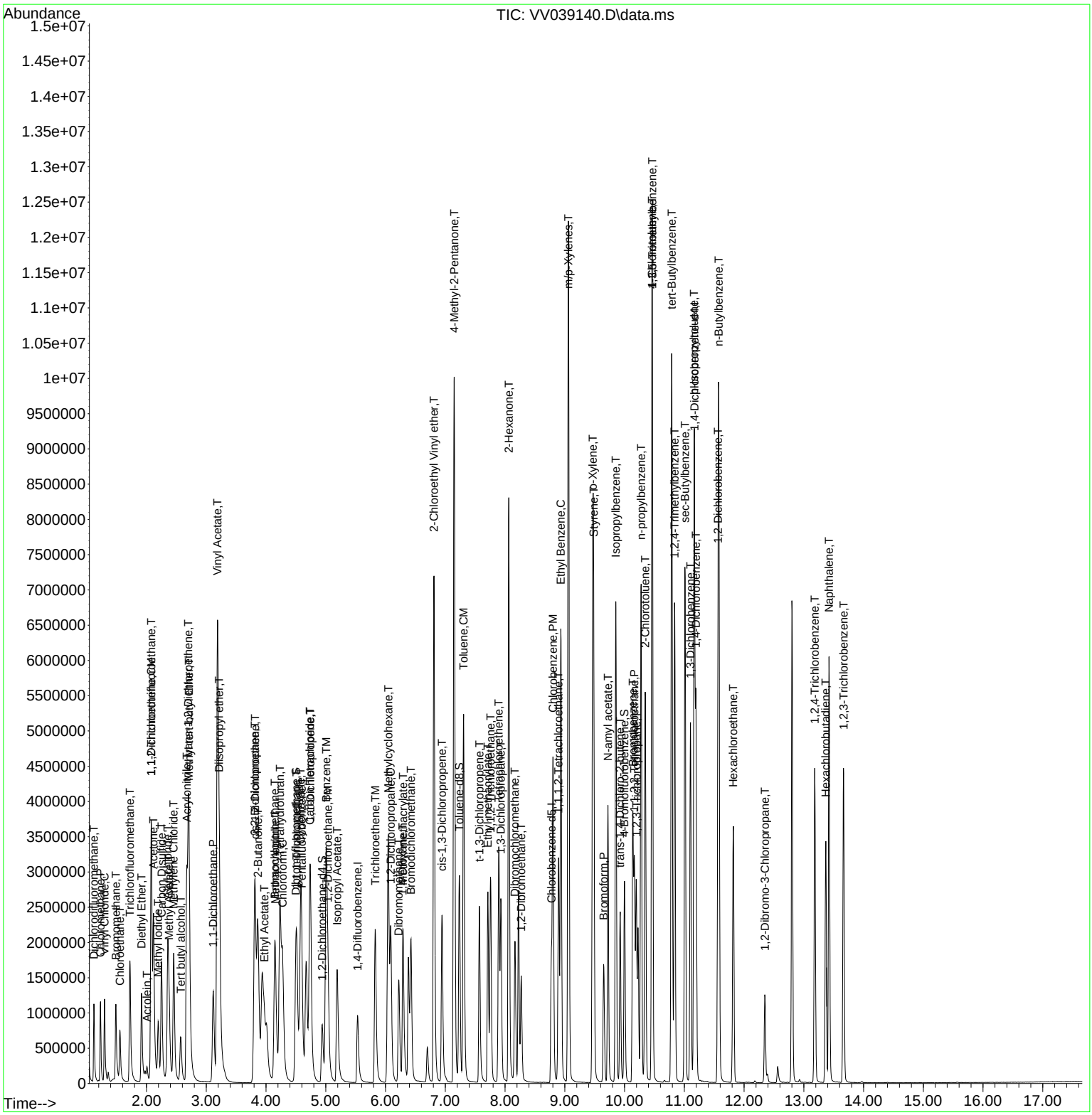
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

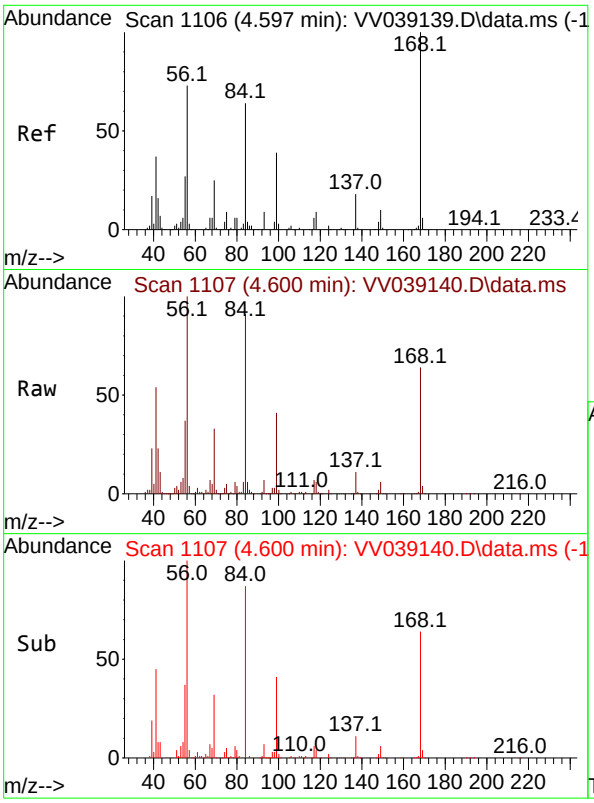
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



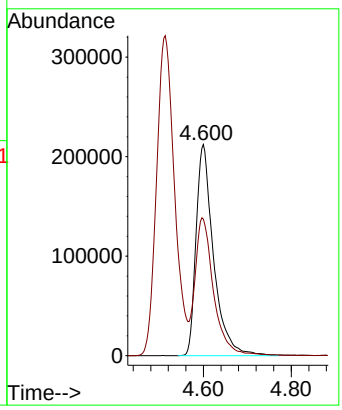


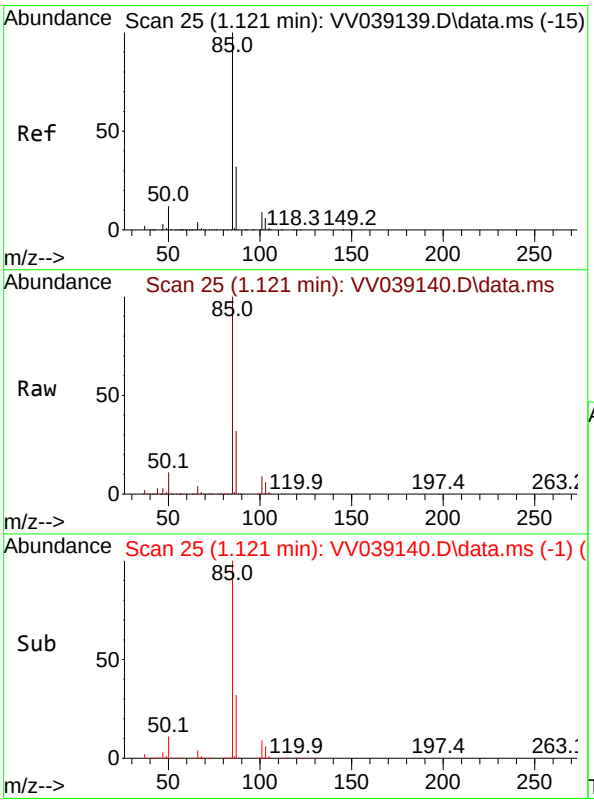
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 587274

Ion	Ratio	Lower	Upper
168	100		
99	64.4	49.6	74.4

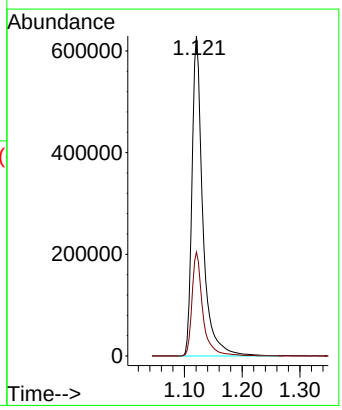


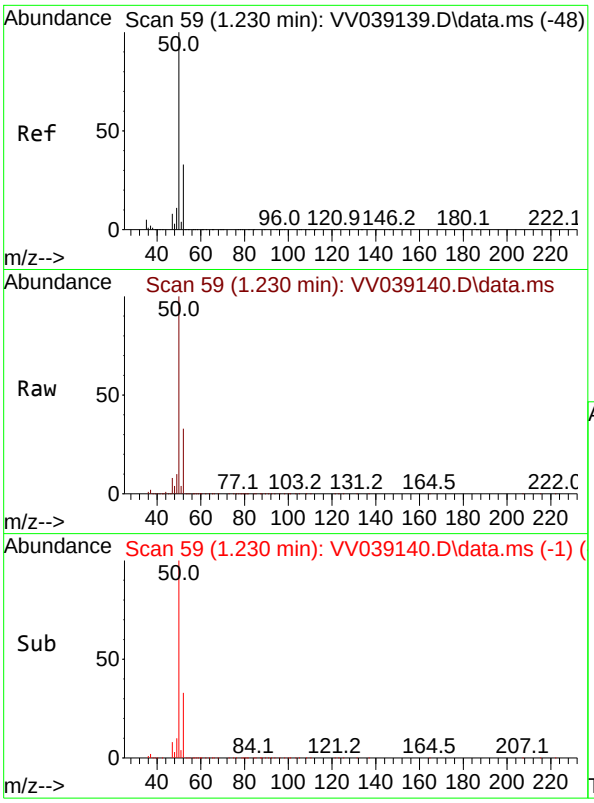


#2
Dichlorodifluoromethane
Concen: 88.278 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 85 Resp: 820676

Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.0	47.9



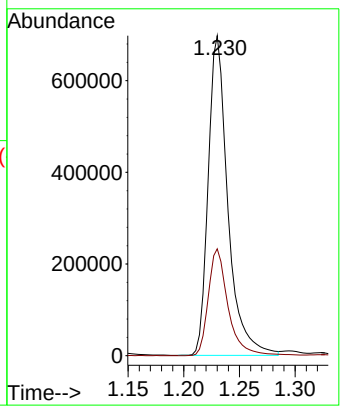


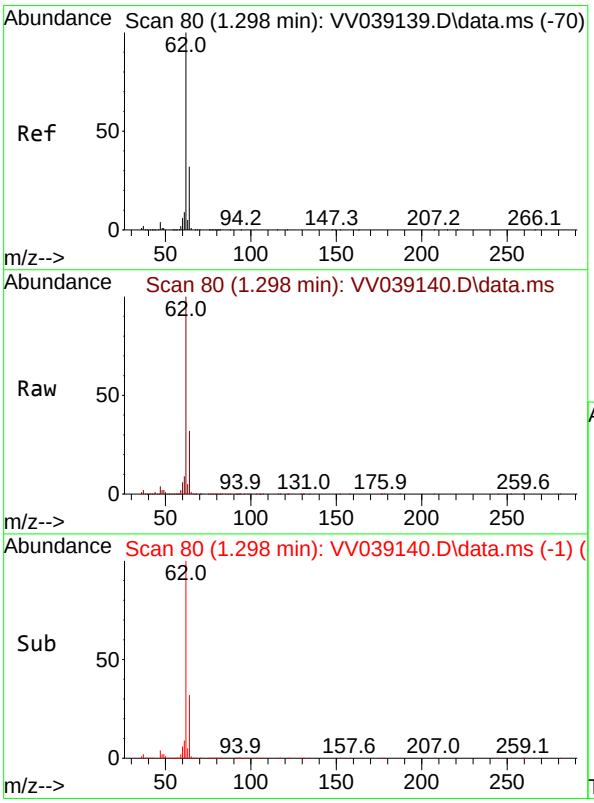
#3
Chloromethane
Concen: 85.806 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 856347

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.0	39.0

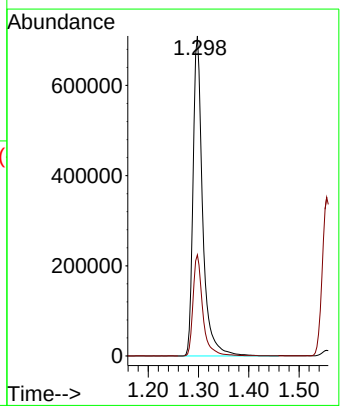


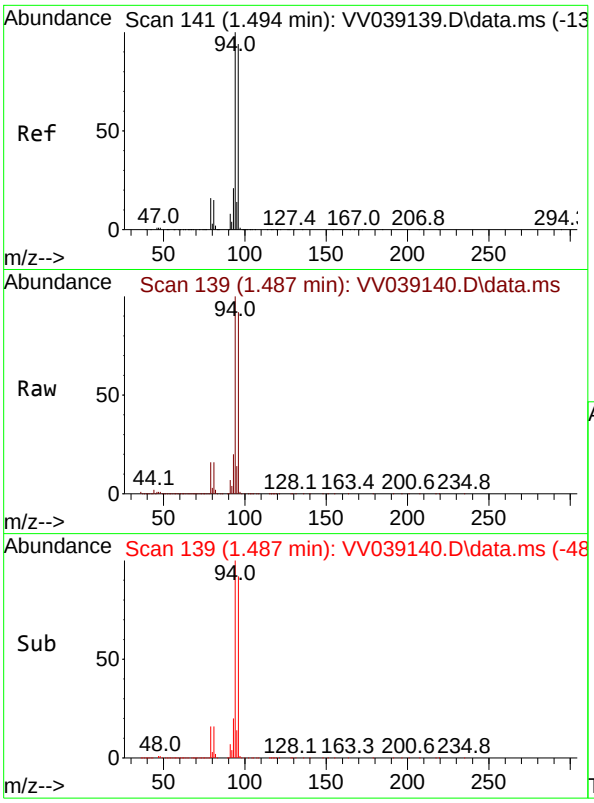


#4
Vinyl Chloride
Concen: 88.044 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 62 Resp: 940694

Ion	Ratio	Lower	Upper
62	100		
64	31.6	25.6	38.4



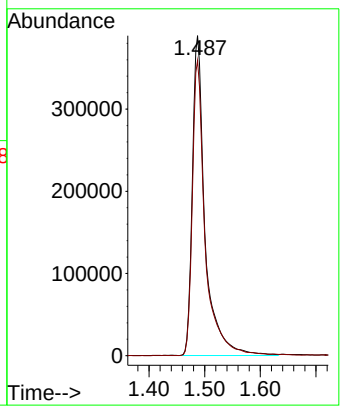


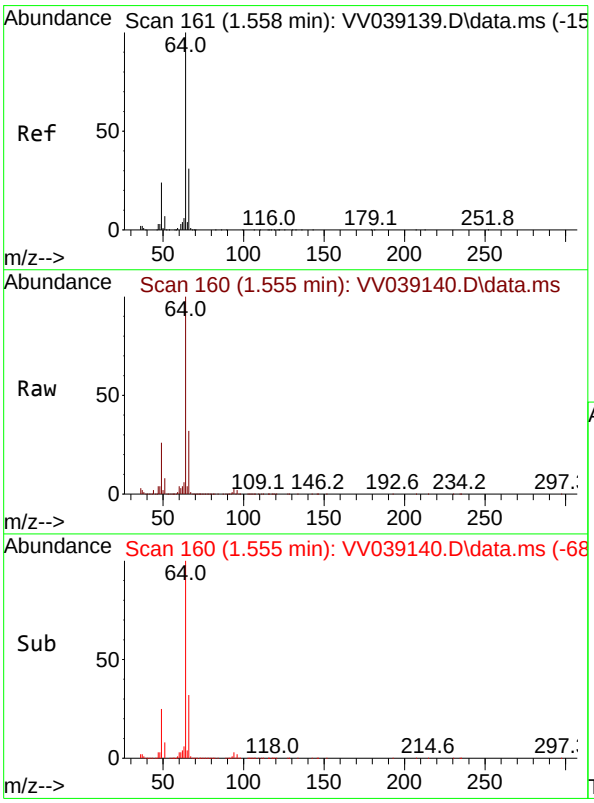
#5
Bromomethane
Concen: 91.446 ug/l
RT: 1.487 min Scan# 1
Delta R.T. -0.007 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 615924

Ion	Ratio	Lower	Upper
94	100		
96	92.3	74.9	112.3

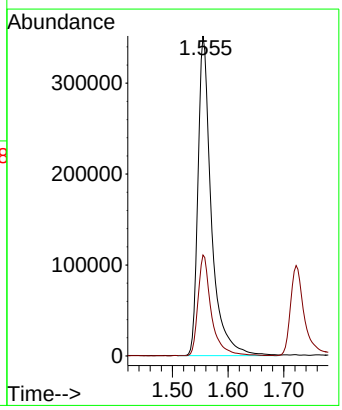


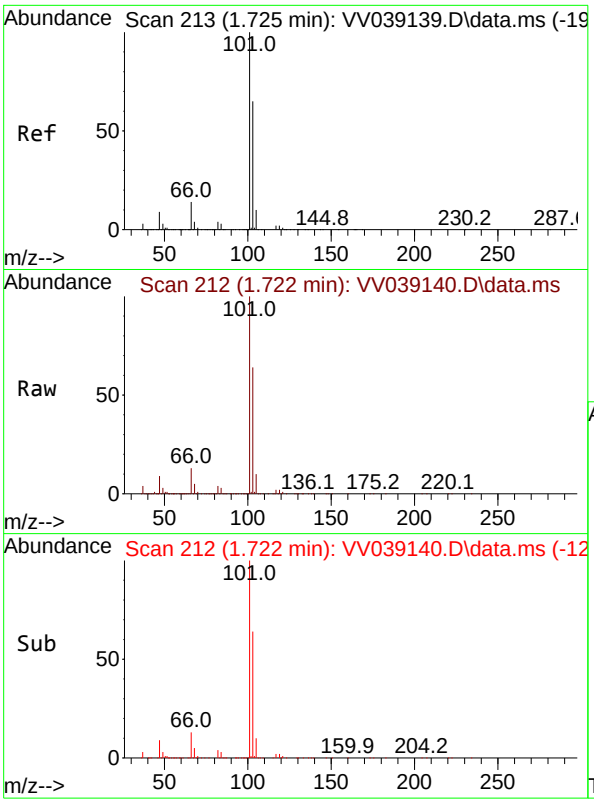


#6
Chloroethane
Concen: 100.067 ug/l
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 64 Resp: 587651

Ion	Ratio	Lower	Upper
64	100		
66	31.5	24.6	36.8



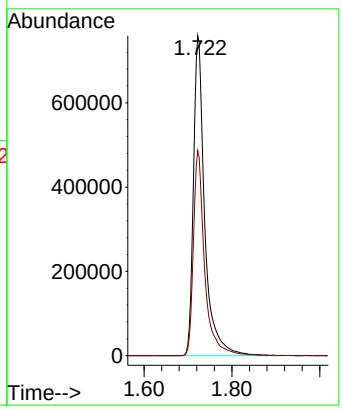


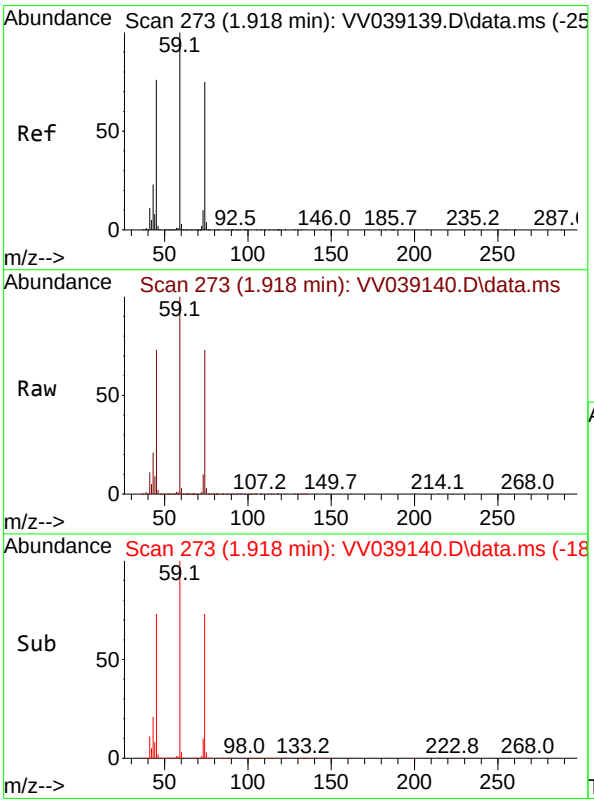
#7
Trichlorofluoromethane
Concen: 87.363 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 1351410

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.0	78.0

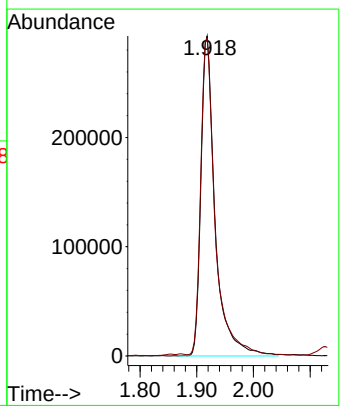


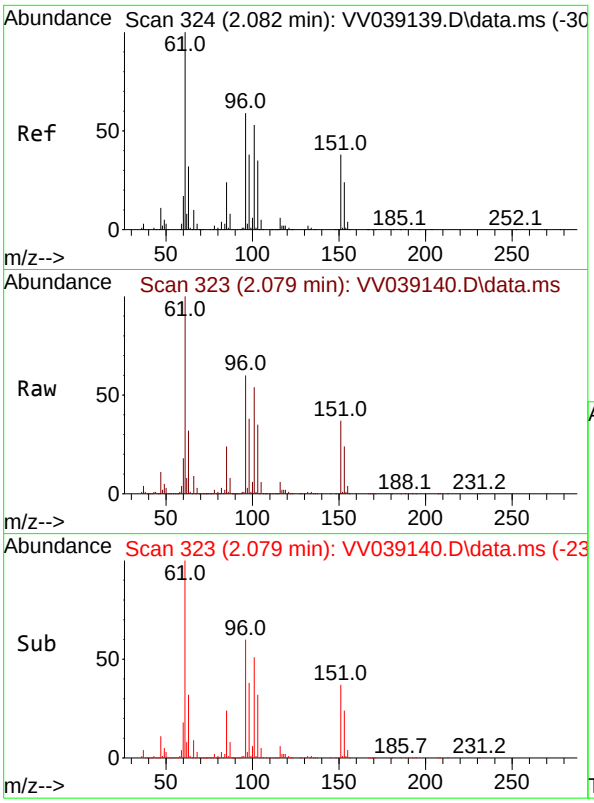


#8
Diethyl Ether
Concen: 88.990 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 74 Resp: 511033

Ion	Ratio	Lower	Upper
74	100		
45	98.8	49.6	148.8



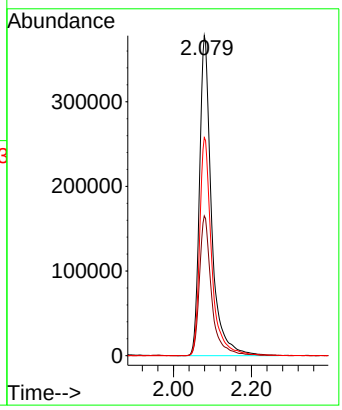


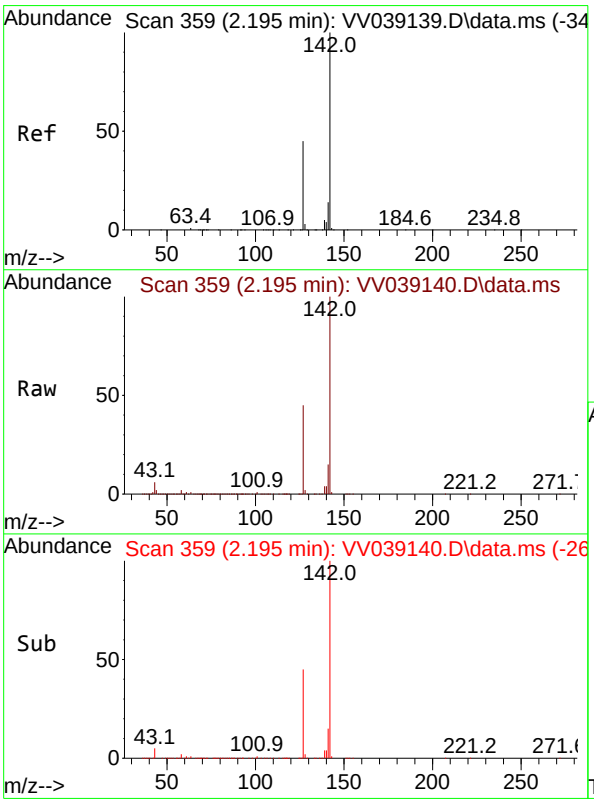
#9
1,1,2-Trichlorotrifluoroethane
Concen: 87.593 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 806216

Ion	Ratio	Lower	Upper
101	100		
85	44.0	36.2	54.2
151	68.1	56.3	84.5

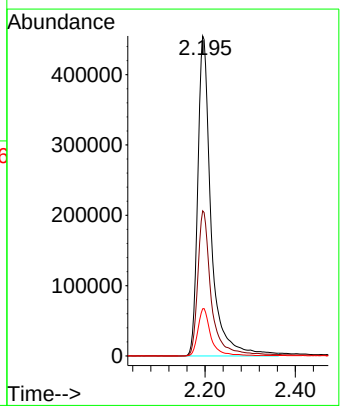


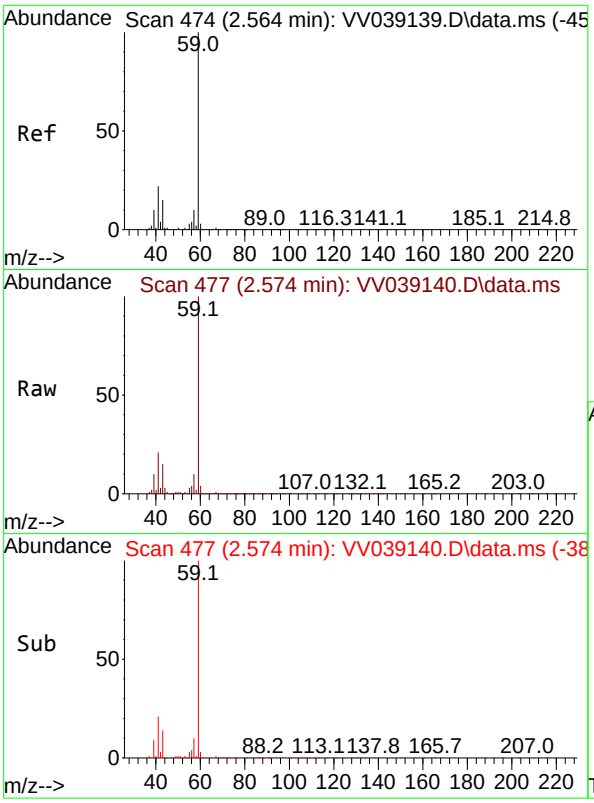


#10
Methyl Iodide
Concen: 106.294 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:142 Resp: 931666

Ion	Ratio	Lower	Upper
142	100		
127	45.2	36.3	54.5
141	14.1	11.2	16.8



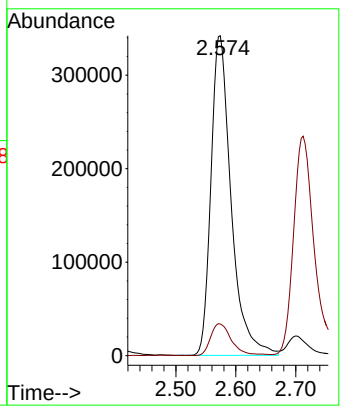


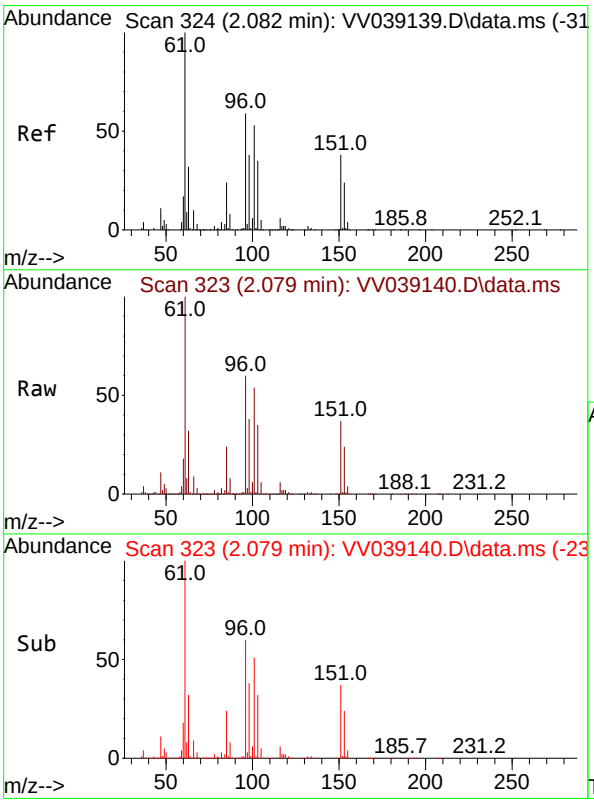
#11
Tert butyl alcohol
Concen: 444.608 ug/l
RT: 2.574 min Scan# 4
Delta R.T. 0.010 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 798702

Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.8	11.8

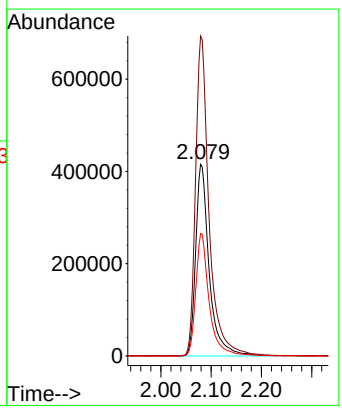


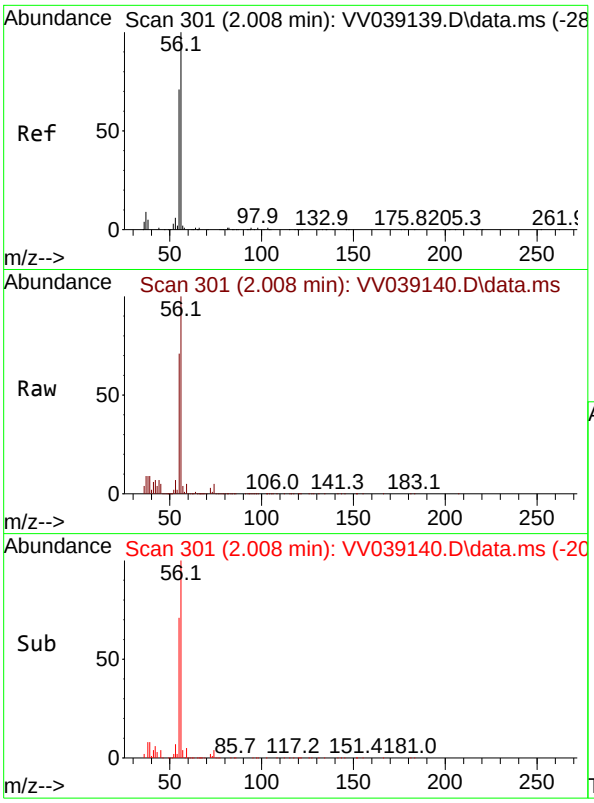


#12
1,1-Dichloroethene
Concen: 87.914 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 96 Resp: 778436

Ion	Ratio	Lower	Upper
96	100		
61	167.1	136.0	204.0
98	63.9	51.0	76.6



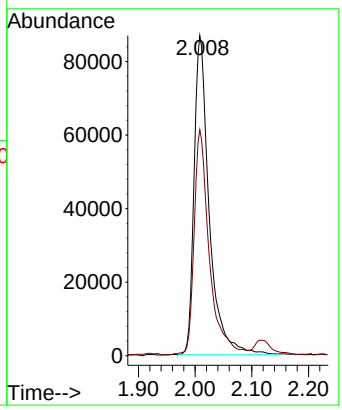


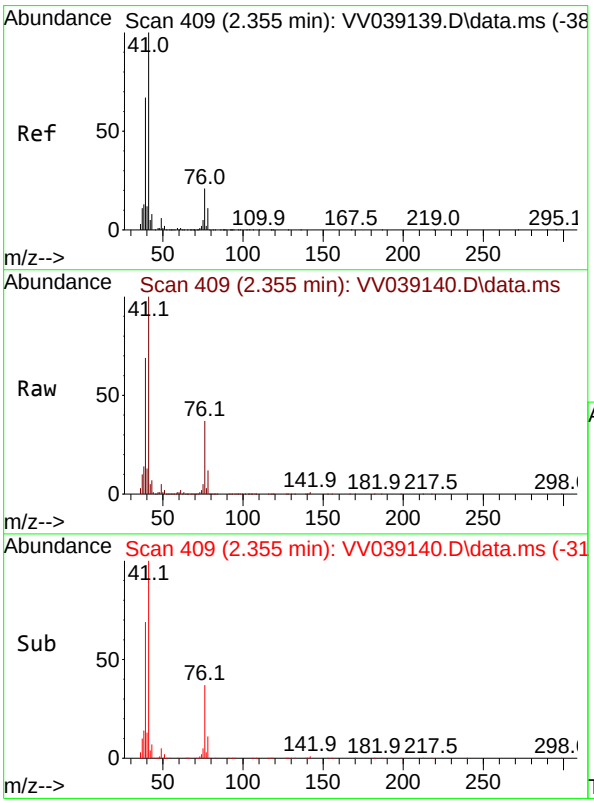
#13
Acrolein
Concen: 515.691 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 160749

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.2	84.4

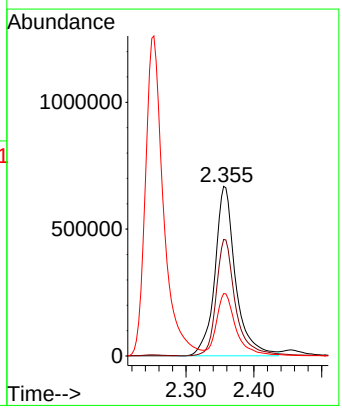


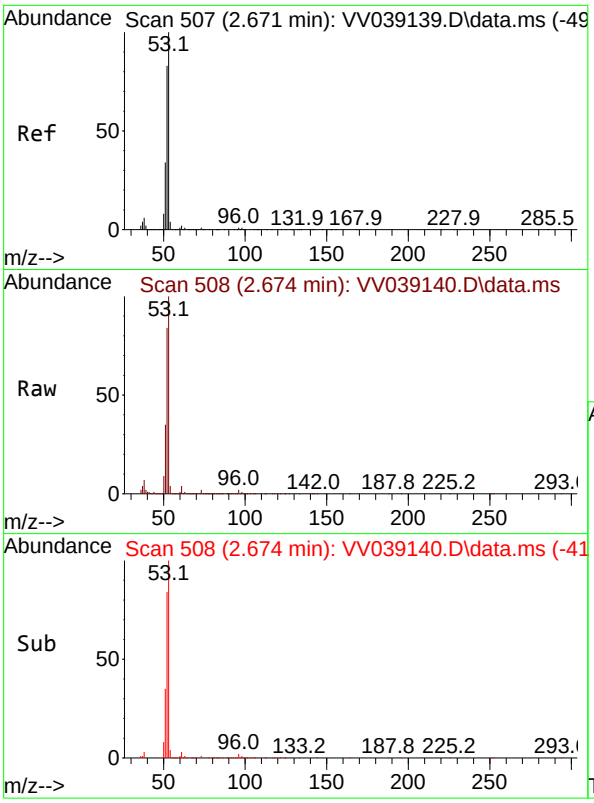


#14
Allyl chloride
Concen: 89.708 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 41 Resp: 1418889

Ion	Ratio	Lower	Upper
41	100		
39	64.7	51.0	76.6
76	35.0	28.2	42.4



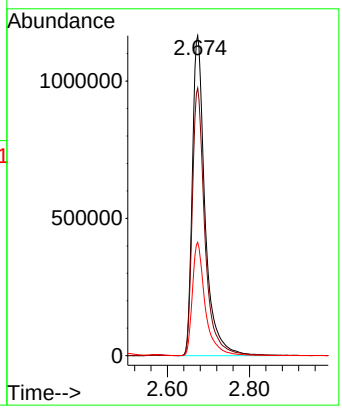


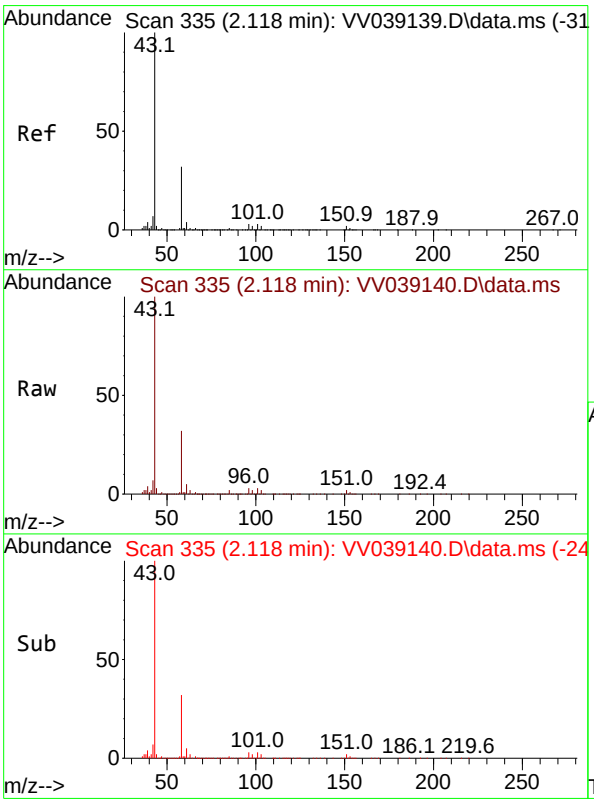
#15
Acrylonitrile
Concen: 435.771 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 2509475

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	35.6	28.5	42.7

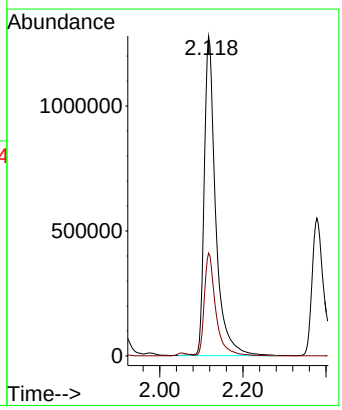


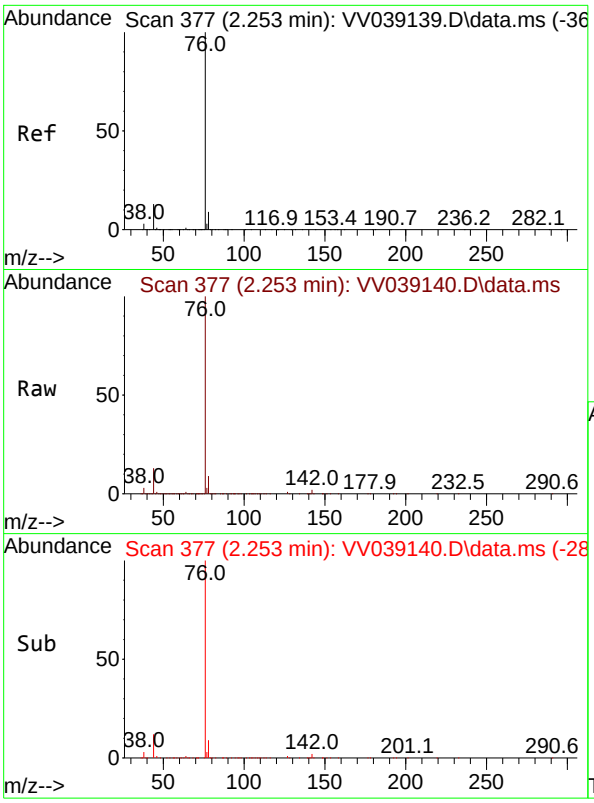


#16
Acetone
Concen: 499.795 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 2432444

Ion	Ratio	Lower	Upper
43	100		
58	32.1	25.8	38.6



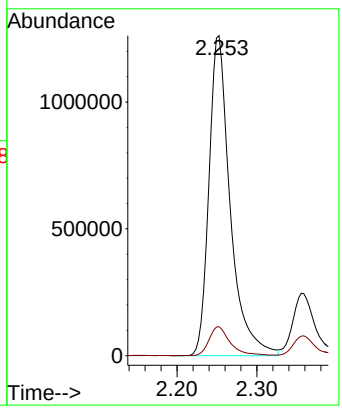


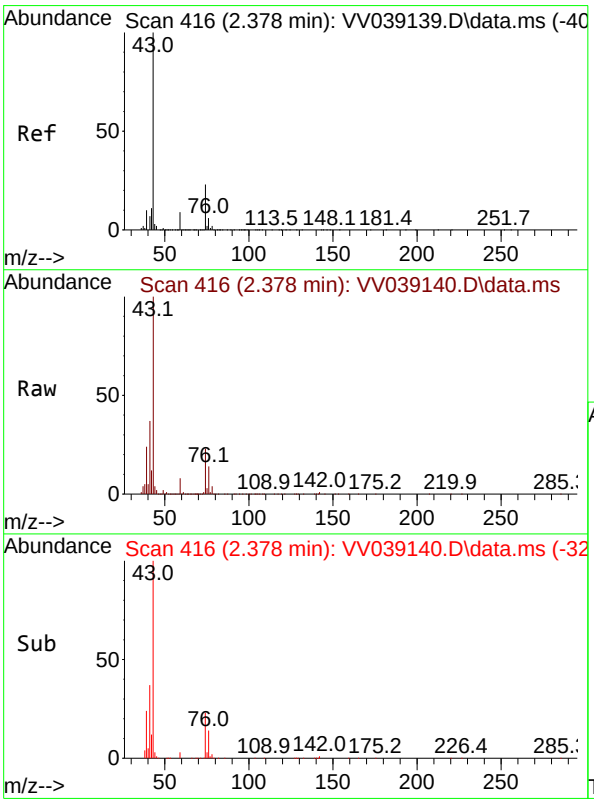
#17
Carbon Disulfide
Concen: 86.125 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 2332239

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

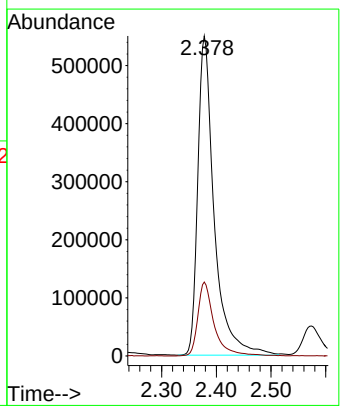


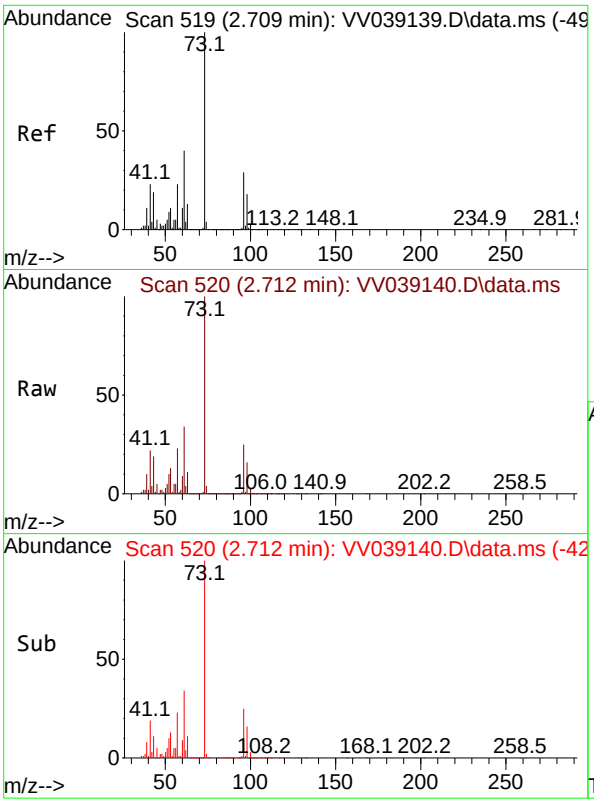


#18
Methyl Acetate
Concen: 90.753 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 1142900

Ion	Ratio	Lower	Upper
43	100		
74	23.2	18.6	27.8



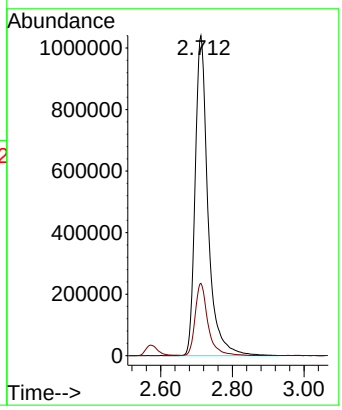


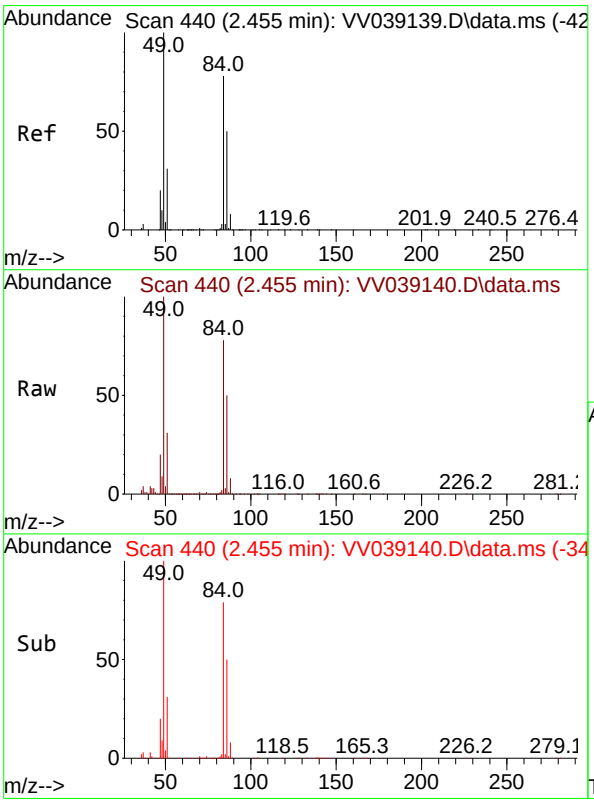
#19
Methyl tert-butyl Ether
Concen: 91.667 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 2586428

Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.2	27.4

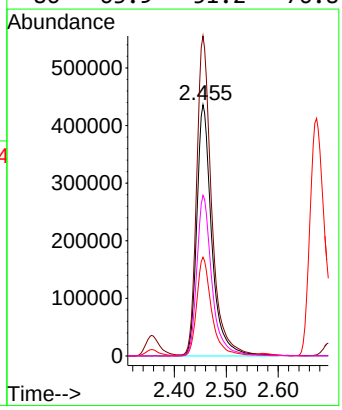


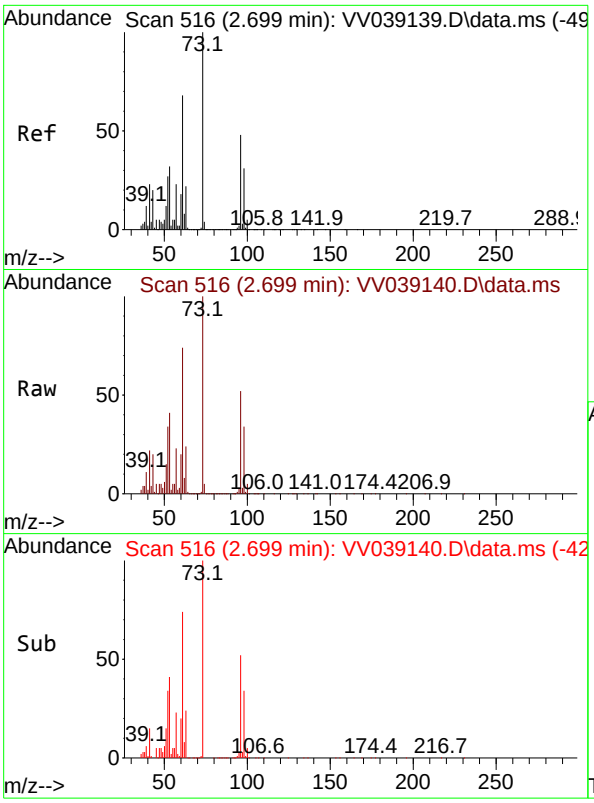


#20
Methylene Chloride
Concen: 100.038 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 84 Resp: 870955

Ion	Ratio	Lower	Upper
84	100		
49	127.1	102.8	154.2
51	39.2	31.9	47.9
86	63.9	51.2	76.8



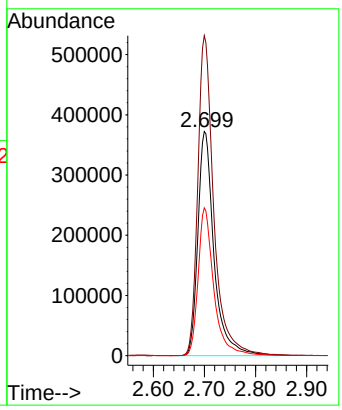


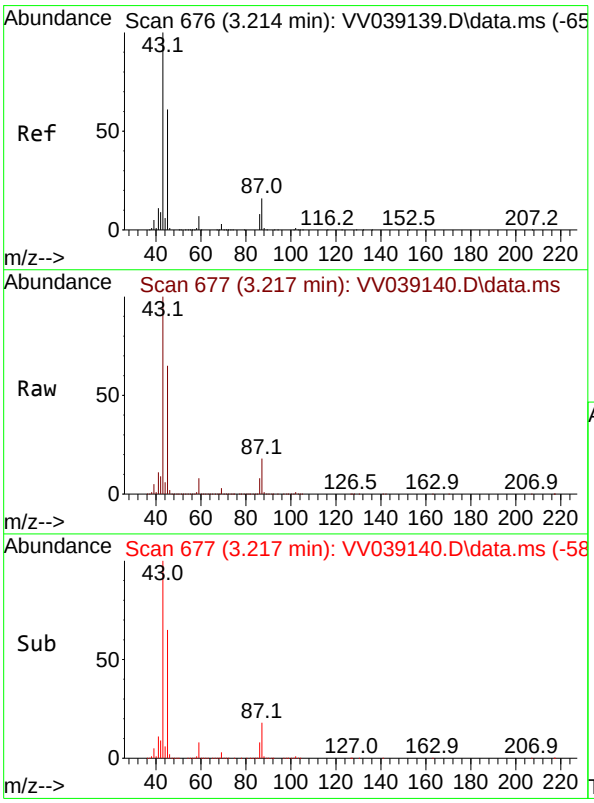
#21
trans-1,2-Dichloroethene
Concen: 86.701 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 817275

Ion	Ratio	Lower	Upper
96	100		
61	142.7	112.8	169.2
98	65.9	51.1	76.7

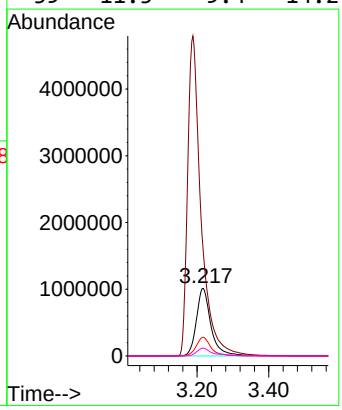


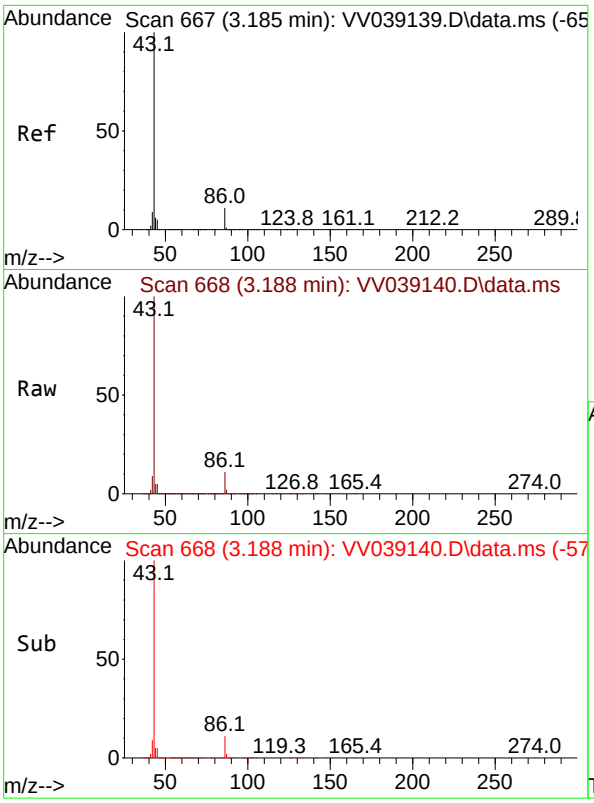


#22
Diisopropyl ether
Concen: 94.428 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 45 Resp: 2857568

Ion	Ratio	Lower	Upper
45	100		
43	153.6	130.9	196.3
87	27.6	21.1	31.7
59	11.5	9.4	14.2



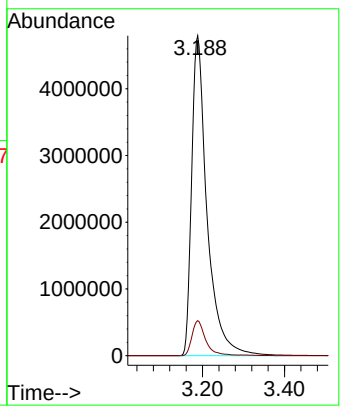


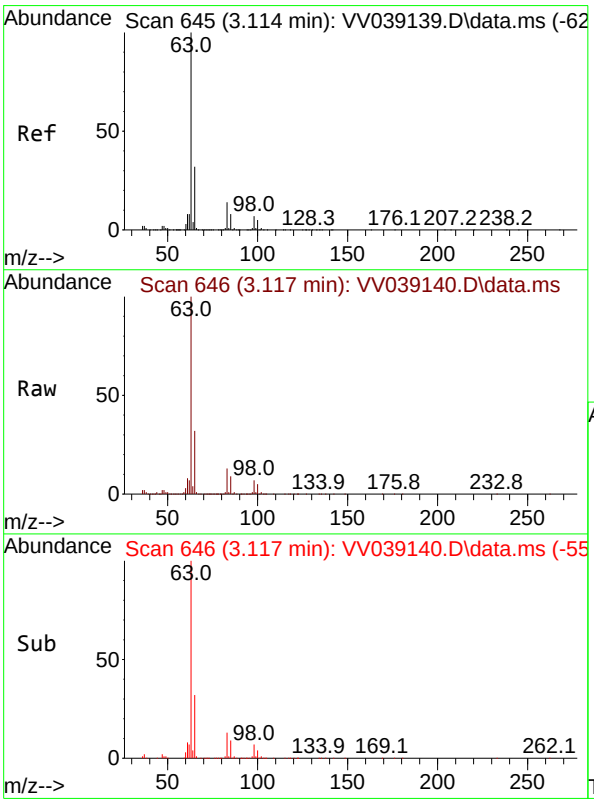
#23
Vinyl Acetate
Concen: 472.148 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp:12498986

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.4	12.6

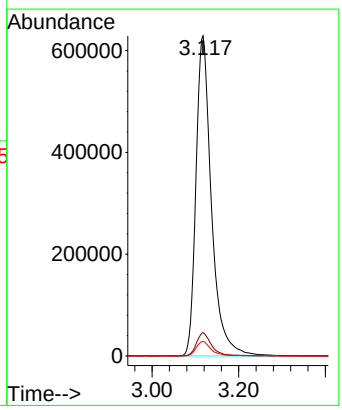


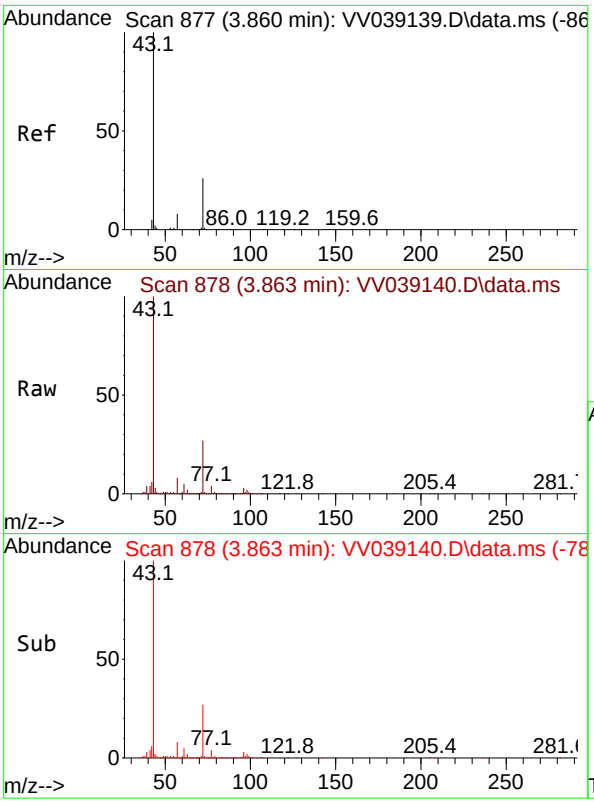


#24
1,1-Dichloroethane
Concen: 84.338 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 63 Resp: 1560774

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.4	10.2
100	4.5	2.2	6.6



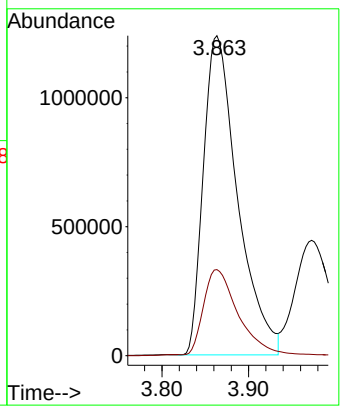


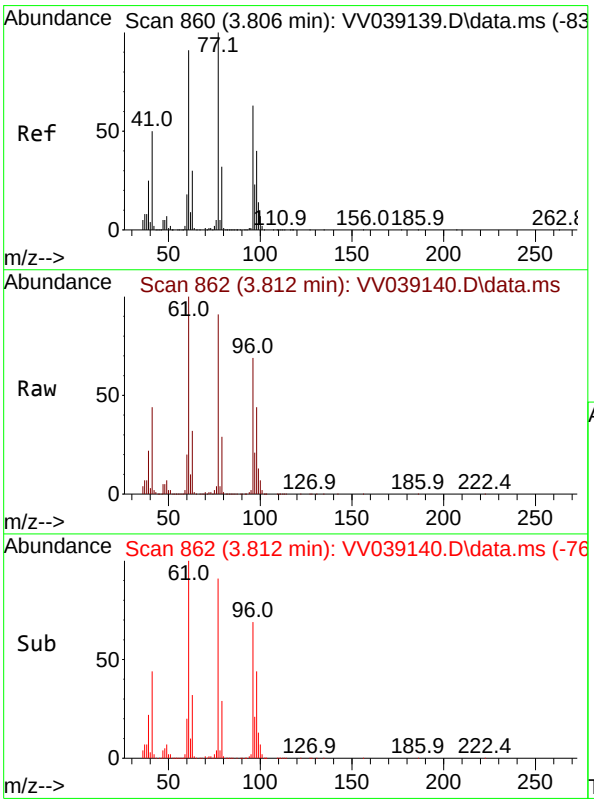
#25
2-Butanone
Concen: 508.801 ug/l
RT: 3.863 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 3404031

Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.0	31.6

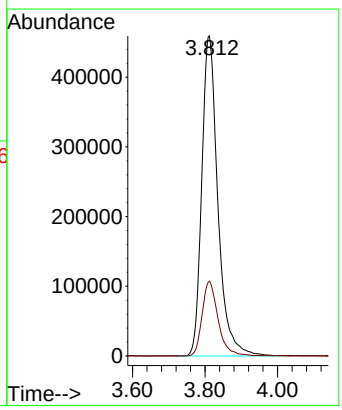


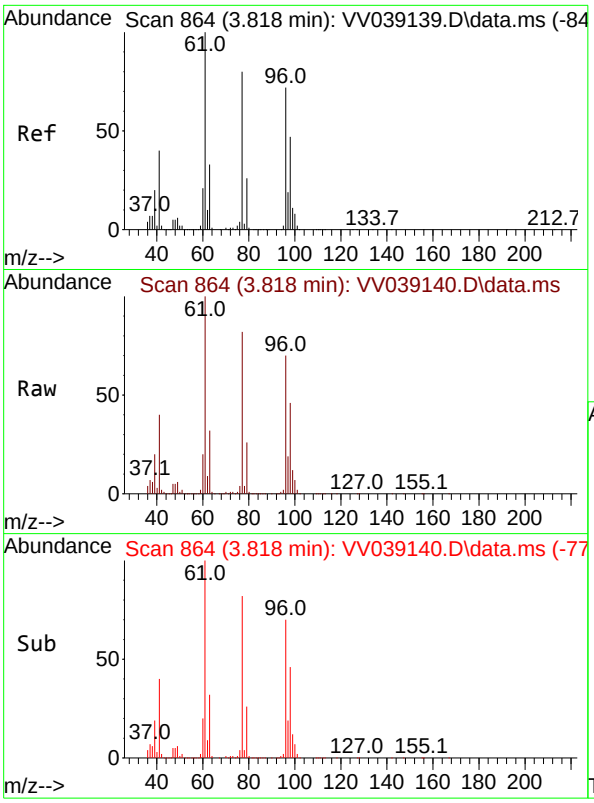


#26
2,2-Dichloropropane
Concen: 86.559 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 77 Resp: 1414724

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.6	34.7



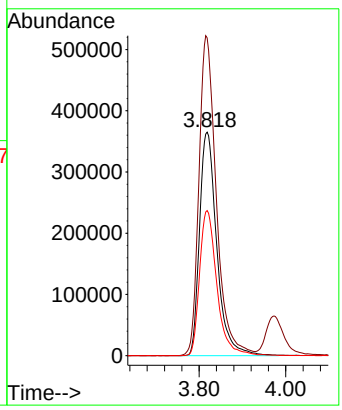


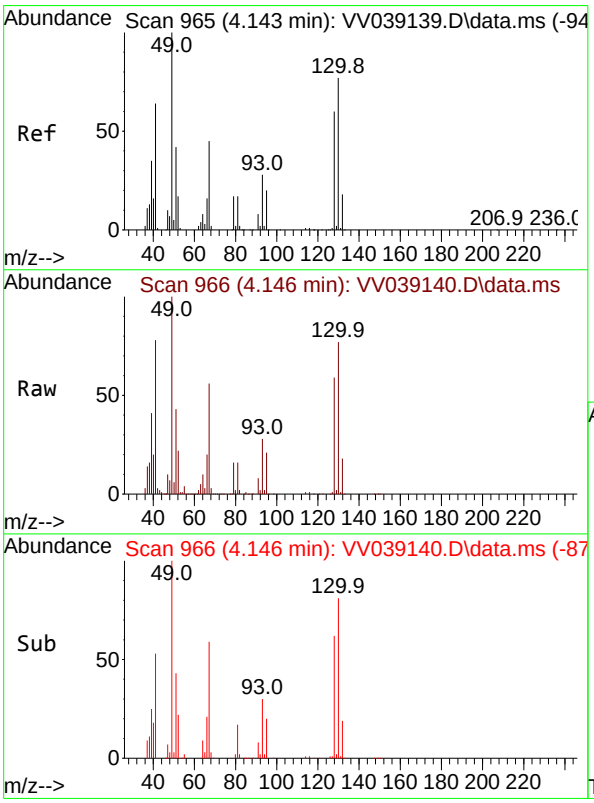
#27
cis-1,2-Dichloroethene
Concen: 97.210 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 1010617

Ion	Ratio	Lower	Upper
96	100		
61	144.0	0.0	286.4
98	64.9	0.0	126.6

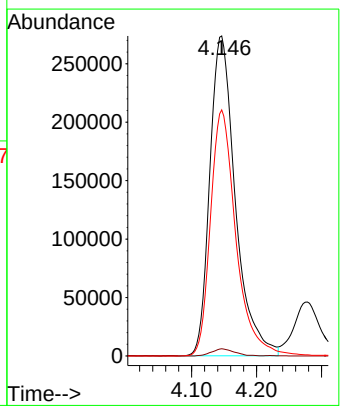


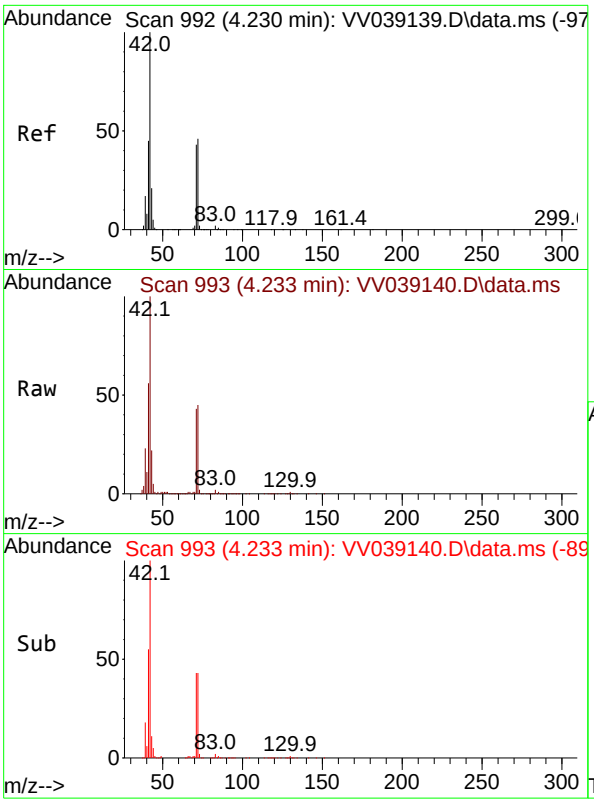


#28
Bromochloromethane
Concen: 91.624 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 49 Resp: 748549

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	76.8	60.2	90.2



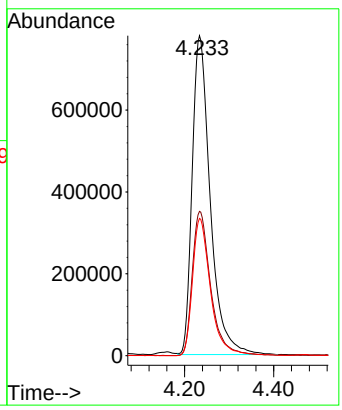


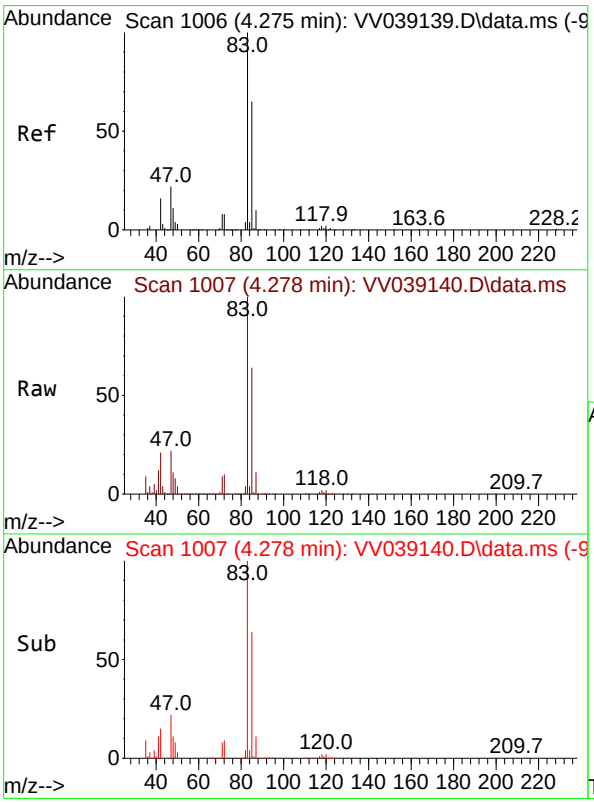
#29
Tetrahydrofuran
Concen: 516.116 ug/l
RT: 4.233 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 2198745

Ion	Ratio	Lower	Upper
42	100		
72	46.2	36.3	54.5
71	43.0	34.3	51.5

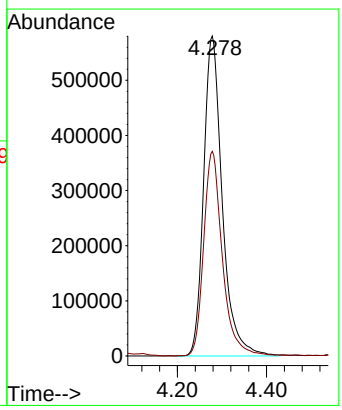


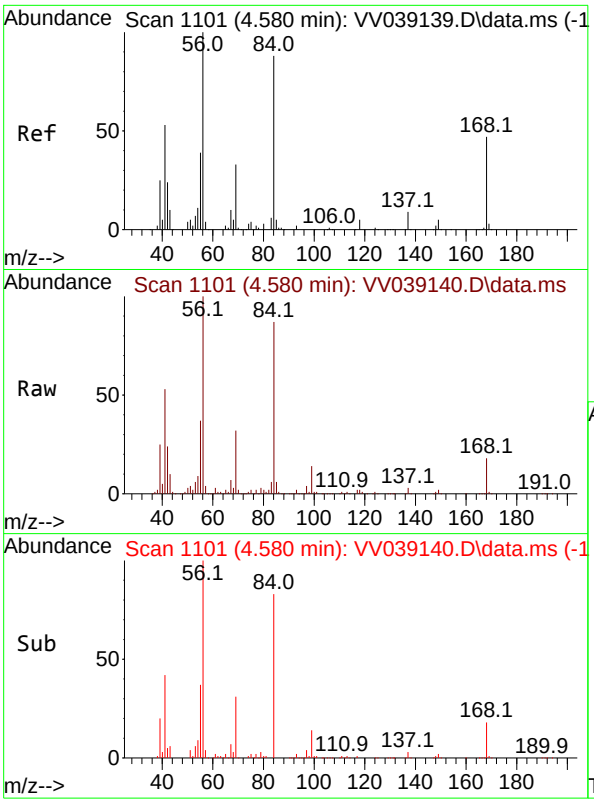


#30
Chloroform
Concen: 87.087 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 83 Resp: 1682895

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.1	78.1



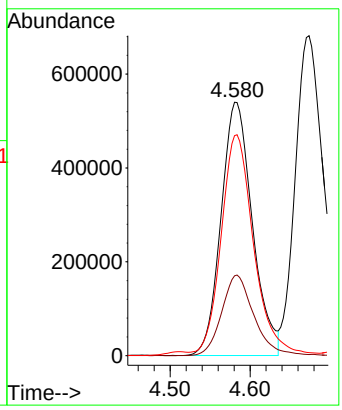


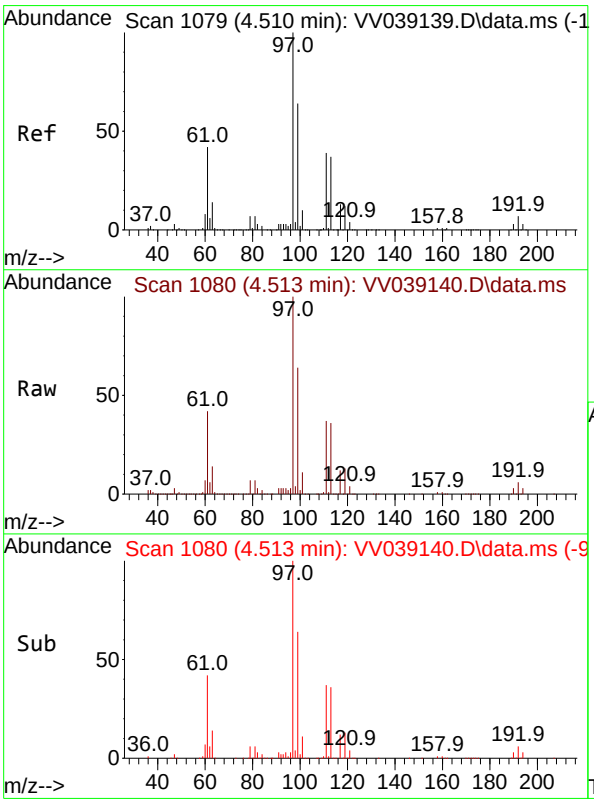
#31
Cyclohexane
Concen: 97.182 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 1473260

Ion	Ratio	Lower	Upper
56	100		
69	31.5	26.2	39.2
84	85.3	70.3	105.5

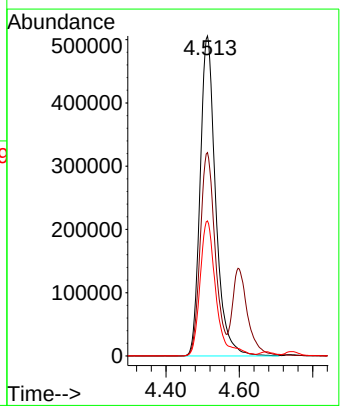


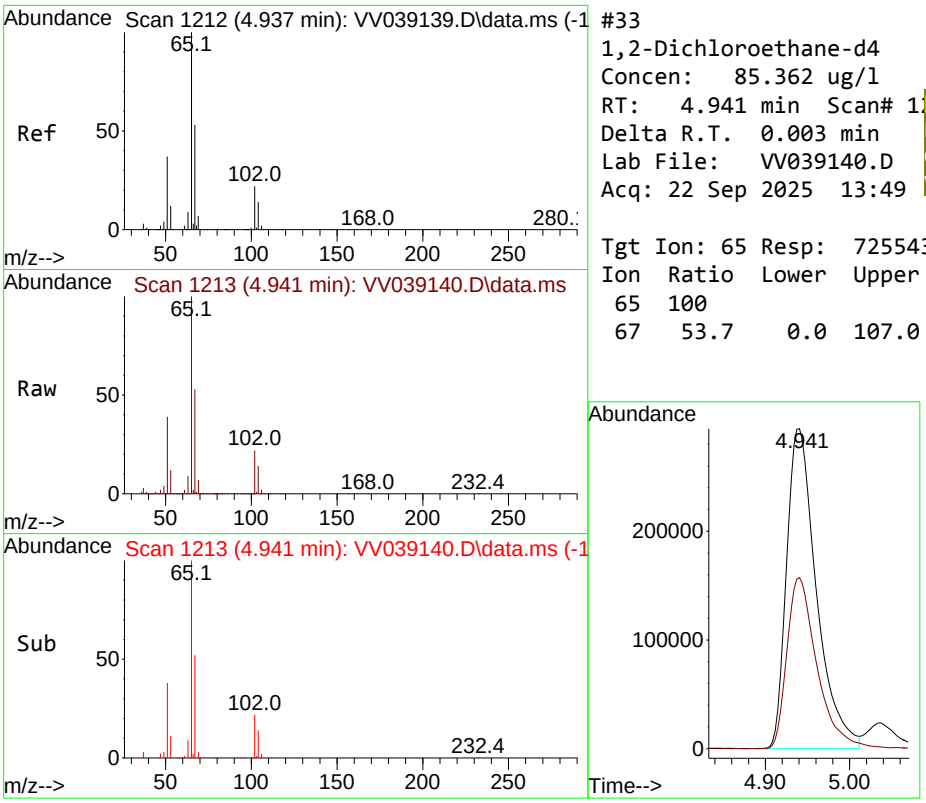


#32
1,1,1-Trichloroethane
Concen: 88.700 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 97 Resp: 1483938

Ion	Ratio	Lower	Upper
97	100		
99	61.3	49.6	74.4
61	43.5	34.5	51.7



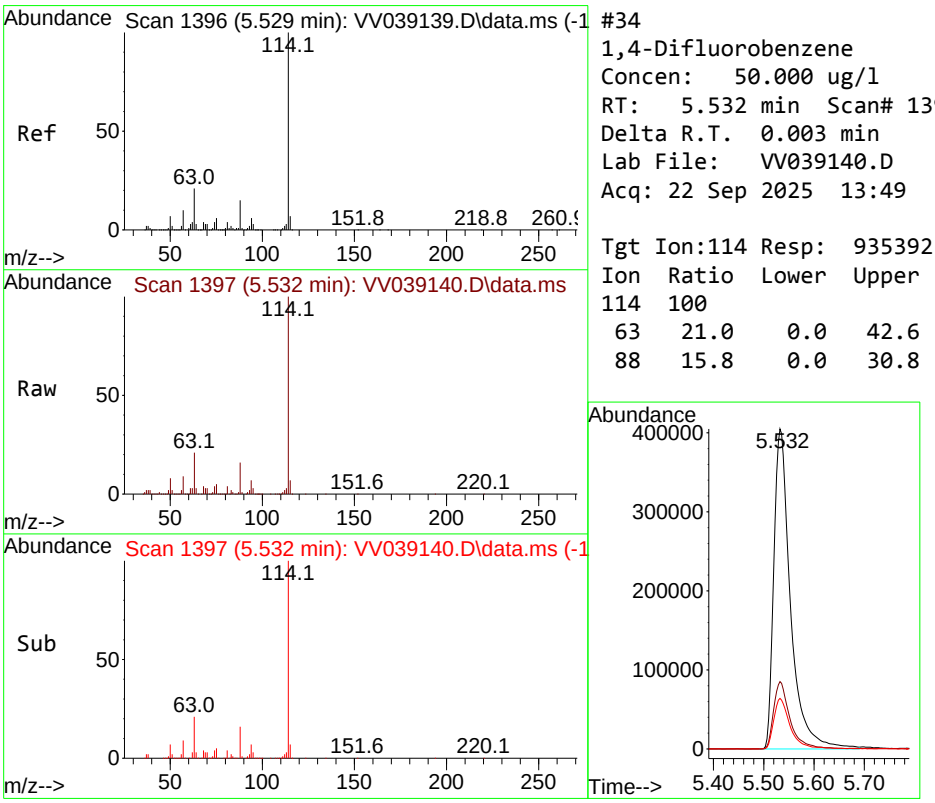


#33
1,2-Dichloroethane-d4
Concen: 85.362 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 725543

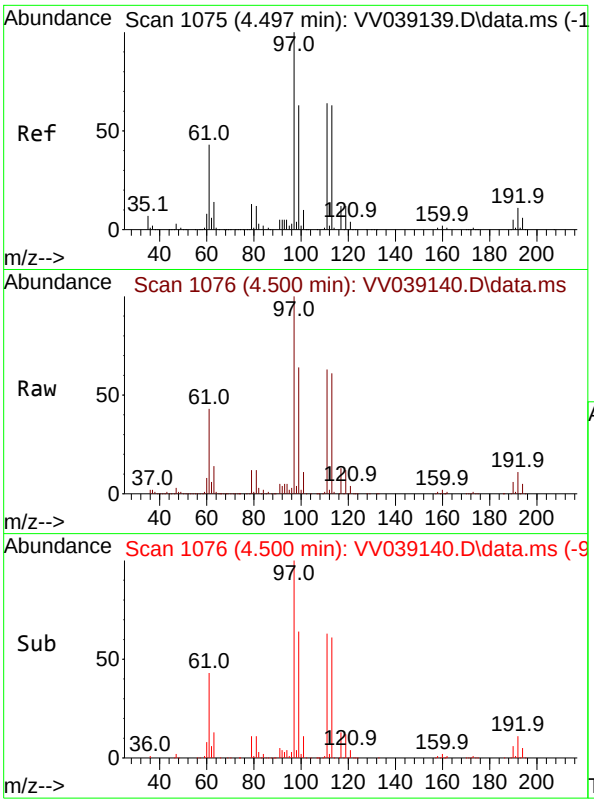
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:114 Resp: 935392

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.6
88	15.8	0.0	30.8

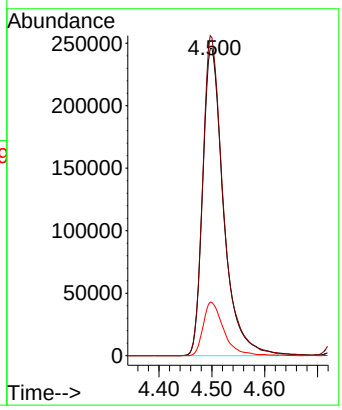


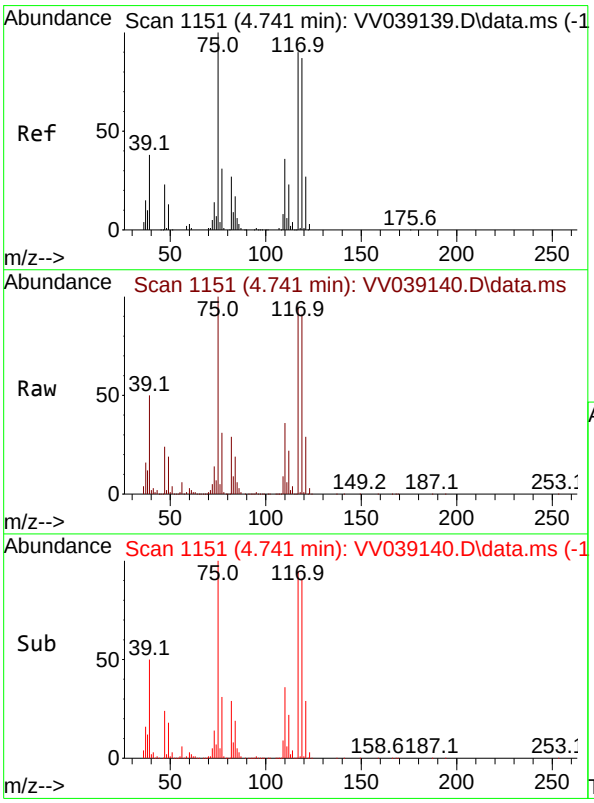
#35
Dibromofluoromethane
Concen: 89.684 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 674408

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	17.0	13.8	20.8

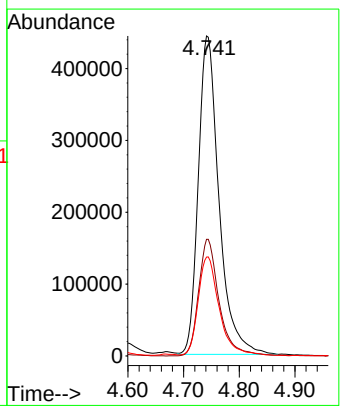


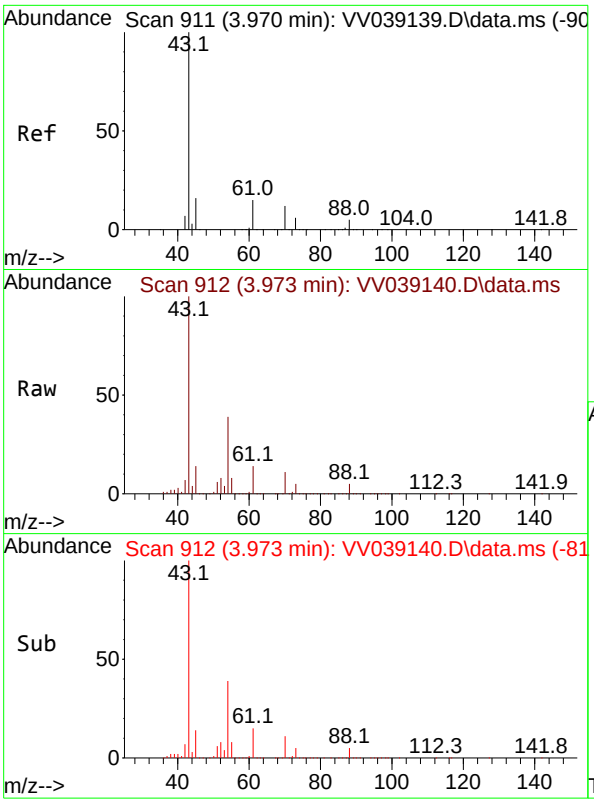


#36
1,1-Dichloropropene
Concen: 99.944 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1144520

Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.1	54.1
77	31.3	24.8	37.2



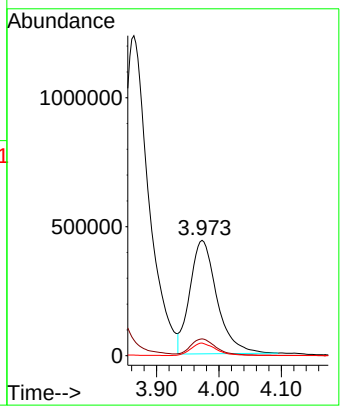


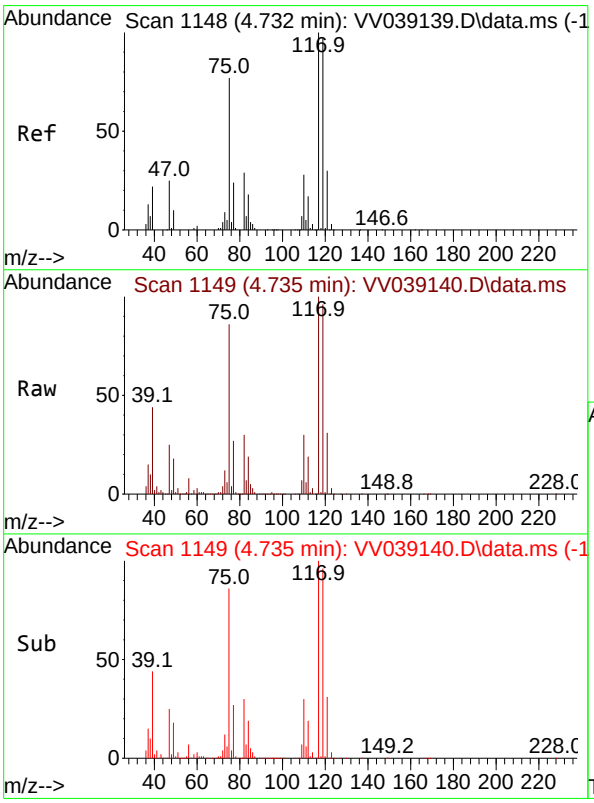
#37
Ethyl Acetate
Concen: 94.580 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1328655

Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.3	15.5
70	10.0	8.0	12.0

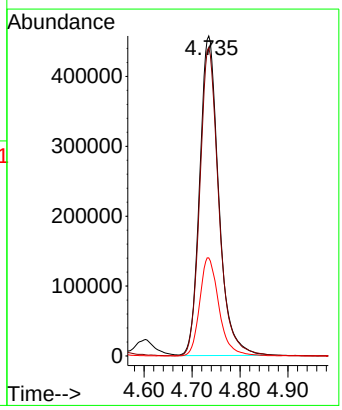


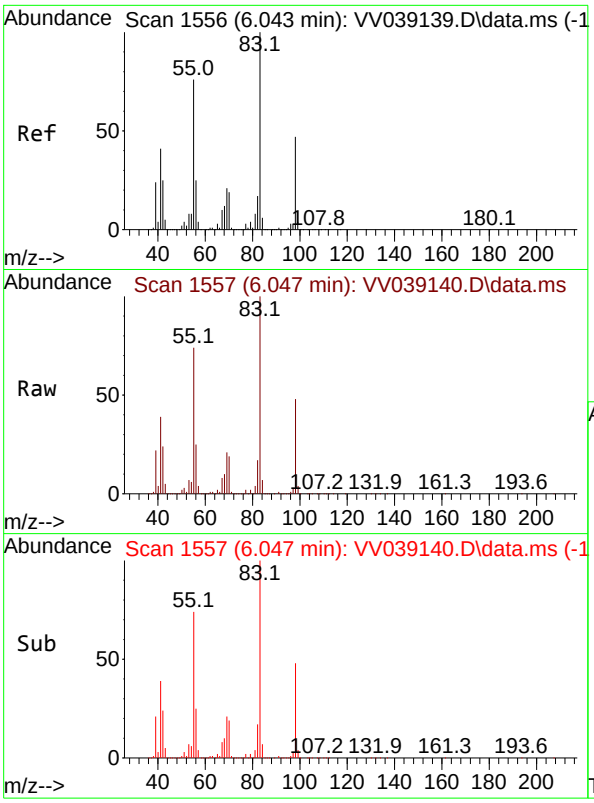


#38
Carbon Tetrachloride
Concen: 91.566 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:117 Resp: 1263028

Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.2	115.8
121	30.7	24.2	36.2



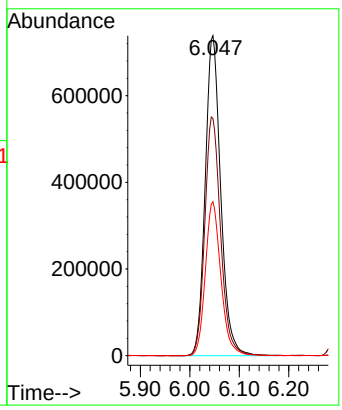


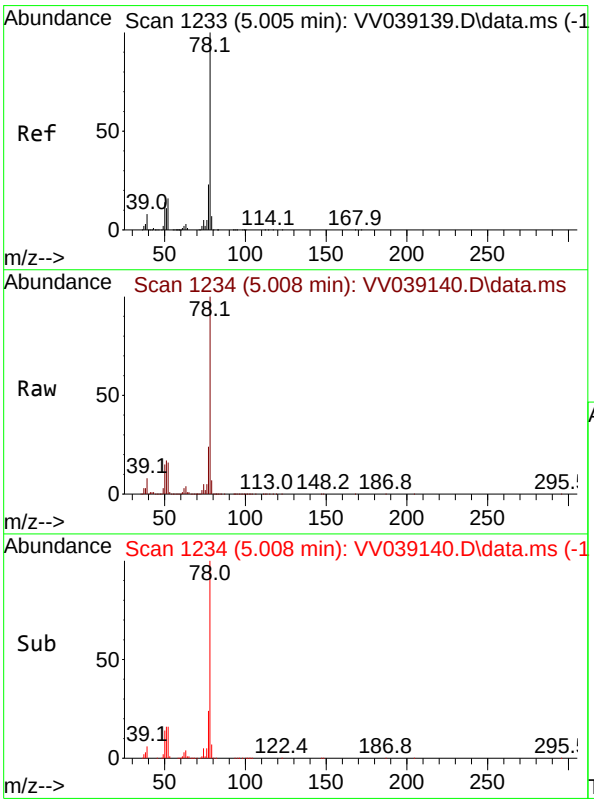
#39
Methylcyclohexane
Concen: 116.766 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 1603169

Ion	Ratio	Lower	Upper
83	100		
55	74.1	60.5	90.7
98	48.1	37.8	56.6

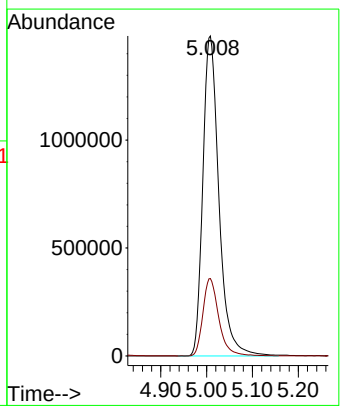


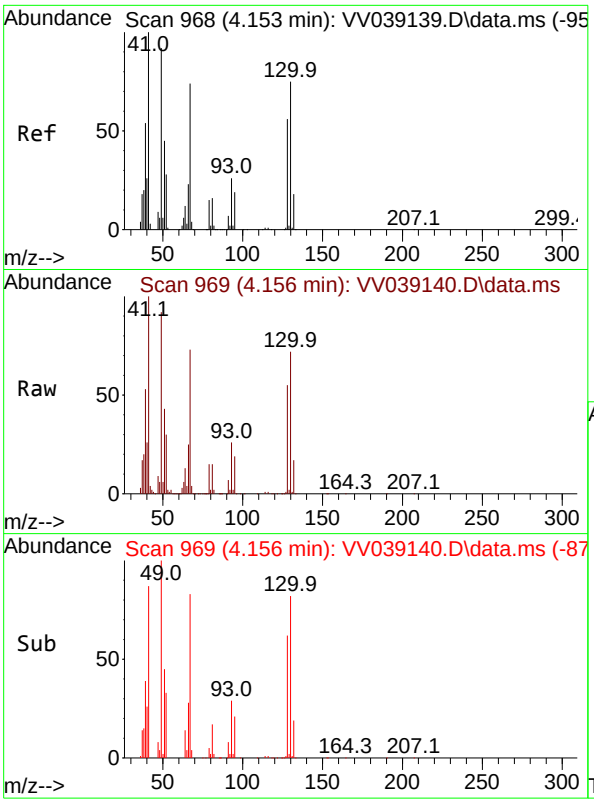


#40
Benzene
Concen: 97.560 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 78 Resp: 3611886

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.7	28.1



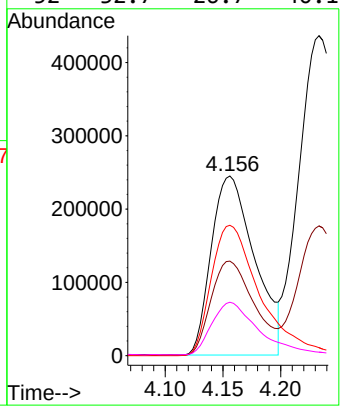


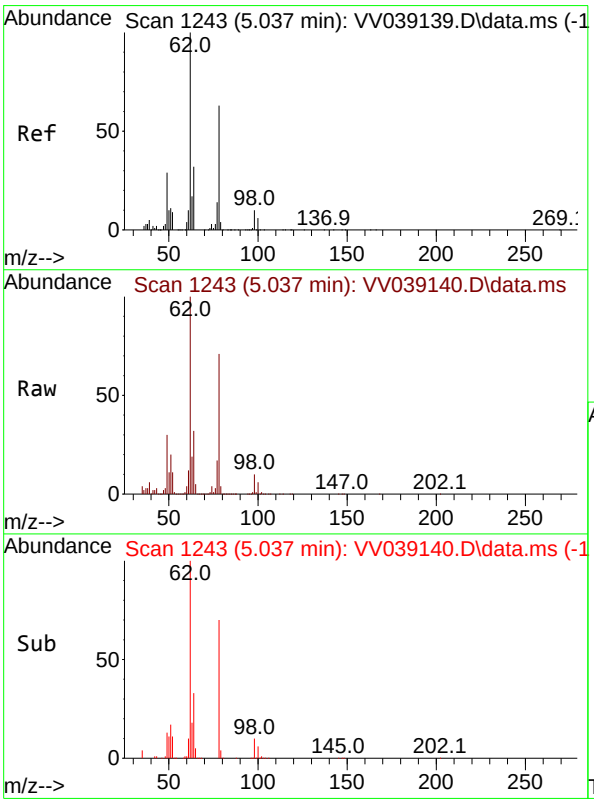
#41
Methacrylonitrile
Concen: 100.494 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 639301

Ion	Ratio	Lower	Upper
41	100		
39	52.4	42.2	63.2
67	83.7	67.9	101.9
52	32.7	26.7	40.1

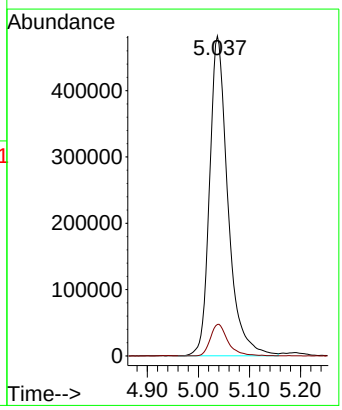


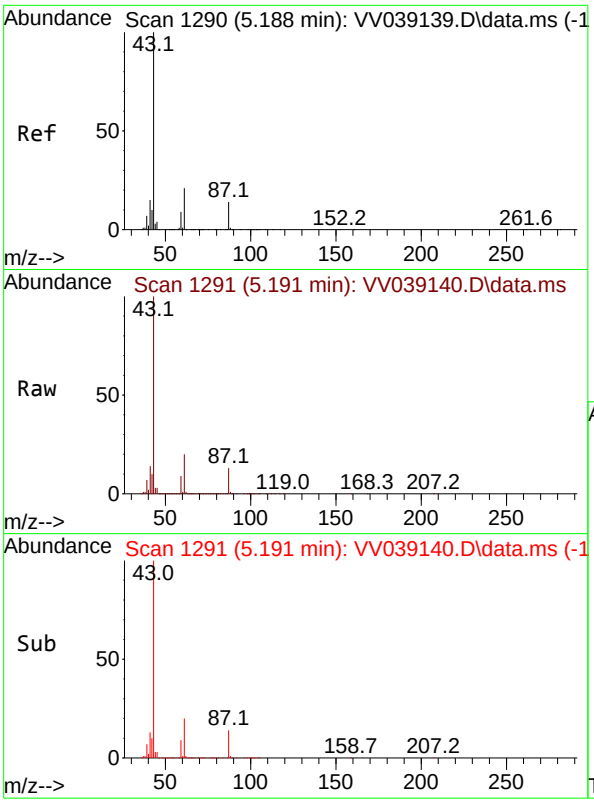


#42
1,2-Dichloroethane
Concen: 92.737 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 62 Resp: 1202991

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.2



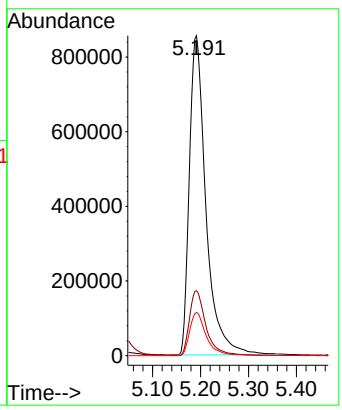


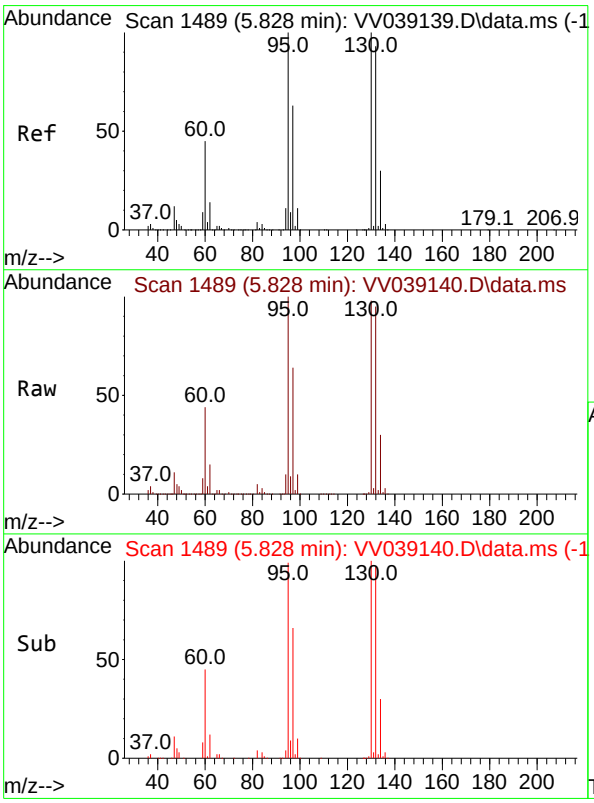
#43
Isopropyl Acetate
Concen: 106.372 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2058622

Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.9	23.9
87	13.6	11.0	16.6

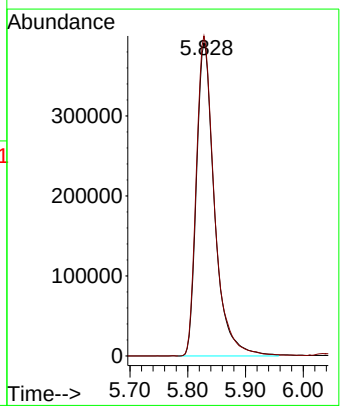


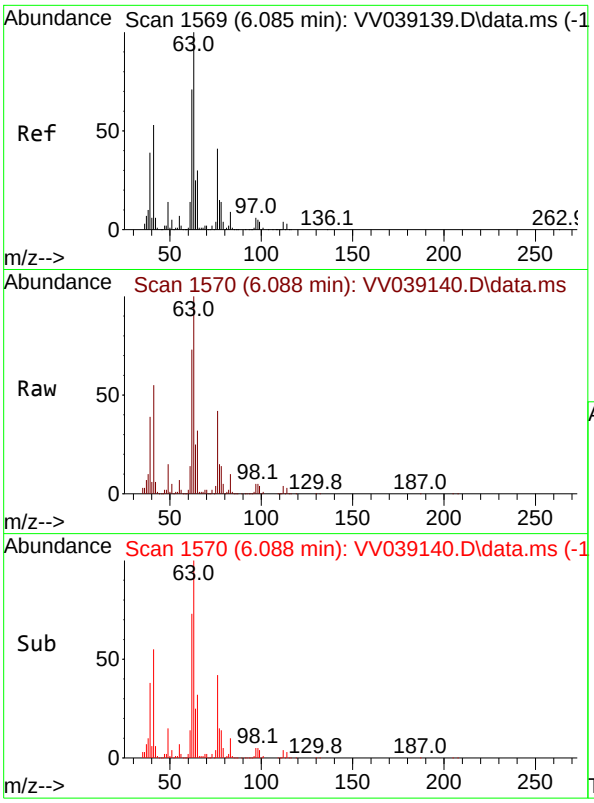


#44
Trichloroethene
Concen: 99.474 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:130 Resp: 849813

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	199.2



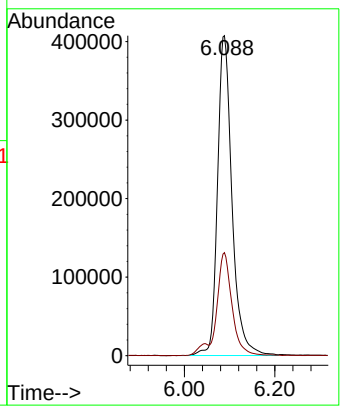


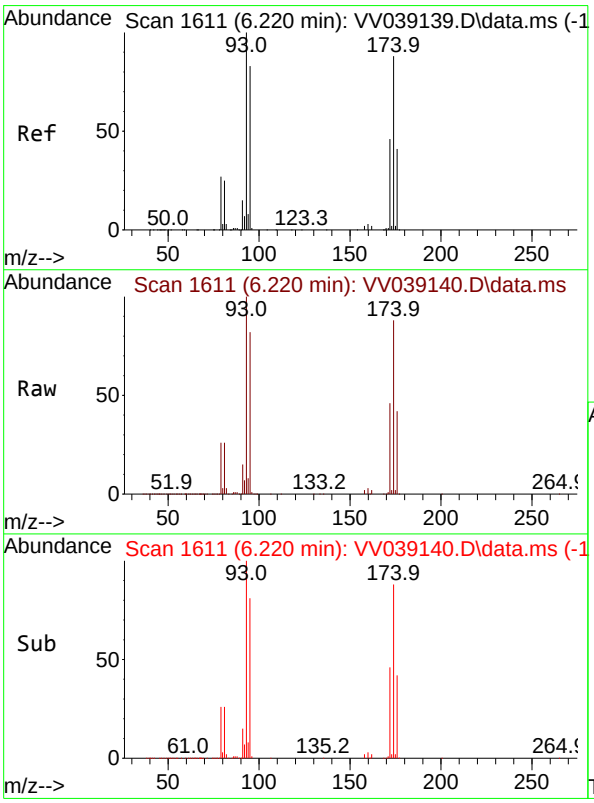
#45
1,2-Dichloropropane
Concen: 98.813 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 909288

Ion	Ratio	Lower	Upper
63	100		
65	32.2	23.7	35.5

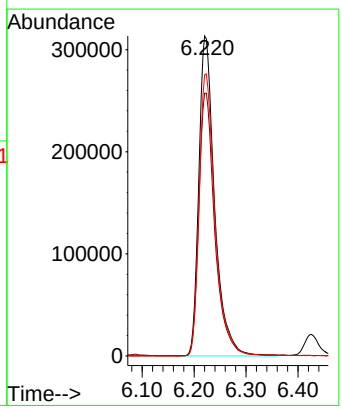


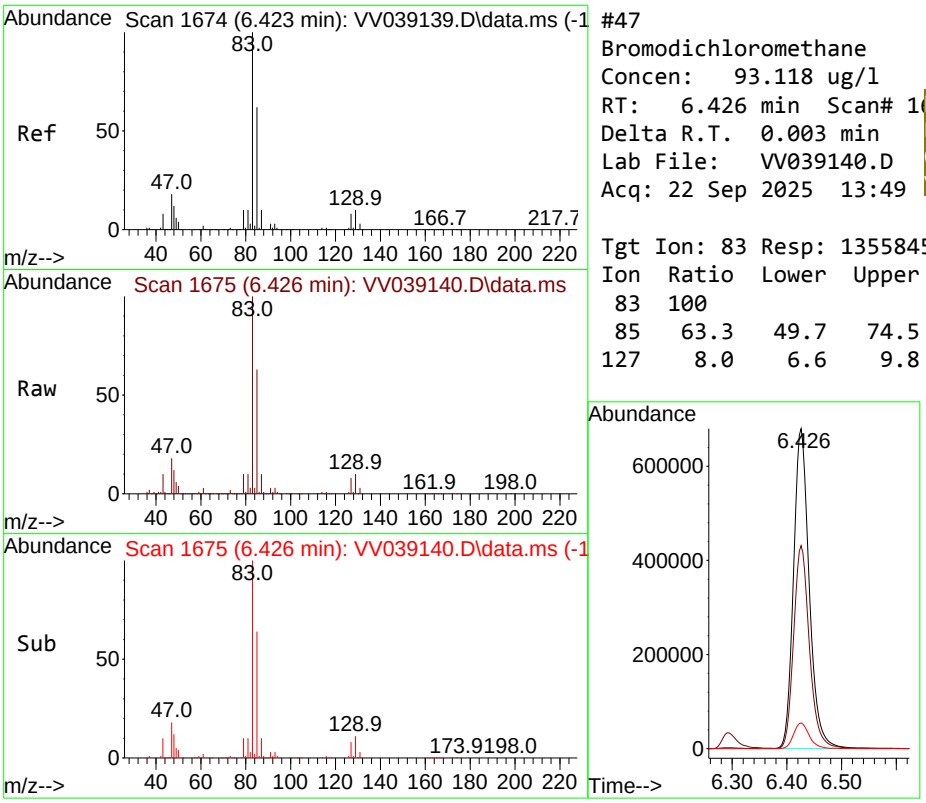


#46
Dibromomethane
Concen: 93.898 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 93 Resp: 661336

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.5	98.3
174	88.3	69.0	103.4



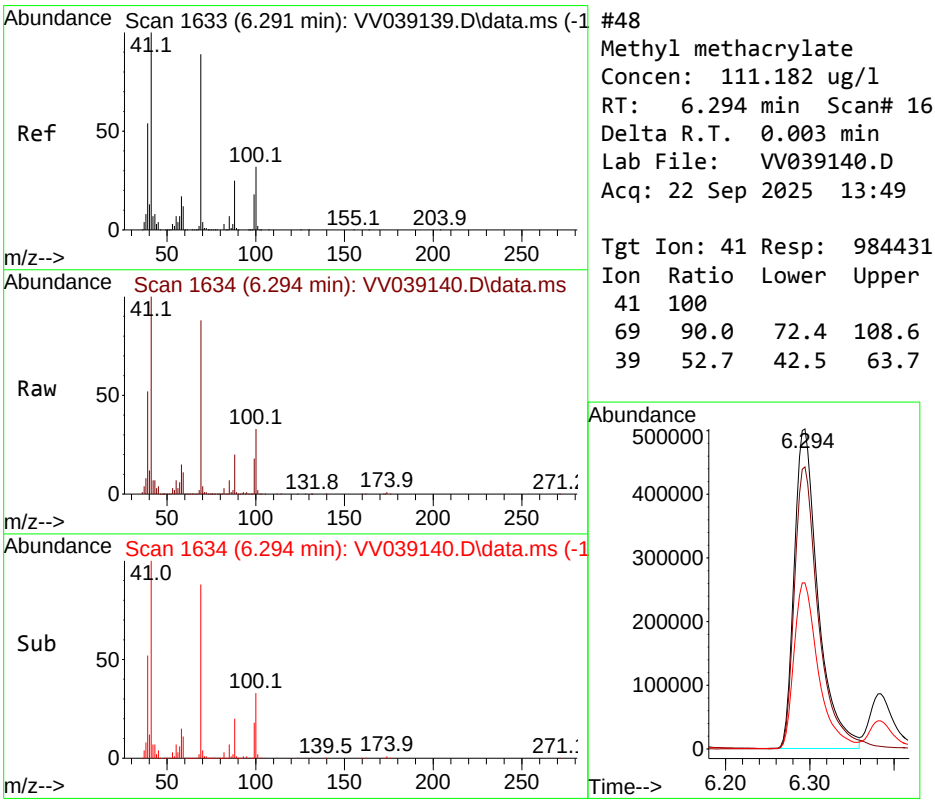


#47
Bromodichloromethane
Concen: 93.118 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 1355845

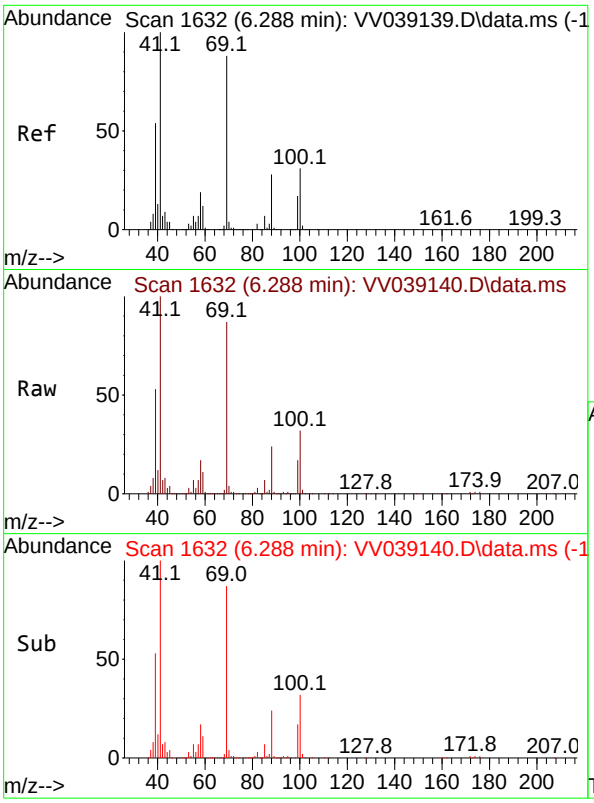
Ion	Ratio	Lower	Upper
83	100		
85	63.3	49.7	74.5
127	8.0	6.6	9.8



#48
Methyl methacrylate
Concen: 111.182 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 41 Resp: 984431

Ion	Ratio	Lower	Upper
41	100		
69	90.0	72.4	108.6
39	52.7	42.5	63.7

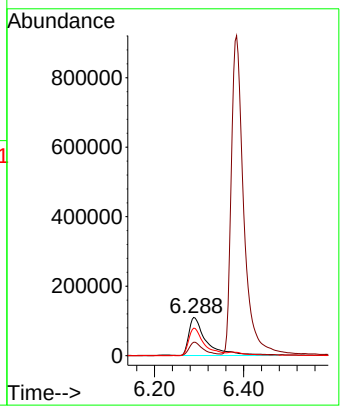


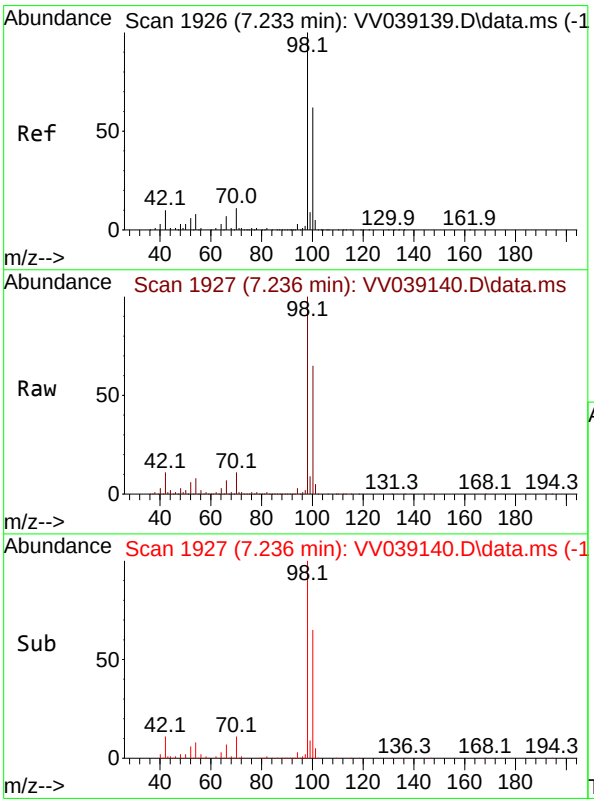
#49
1,4-Dioxane
Concen: 2191.331 ug/l
RT: 6.288 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 304943

Ion	Ratio	Lower	Upper
88	100		
43	29.1	25.1	37.7
58	62.6	53.6	80.4

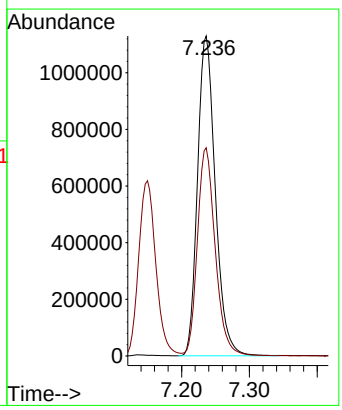


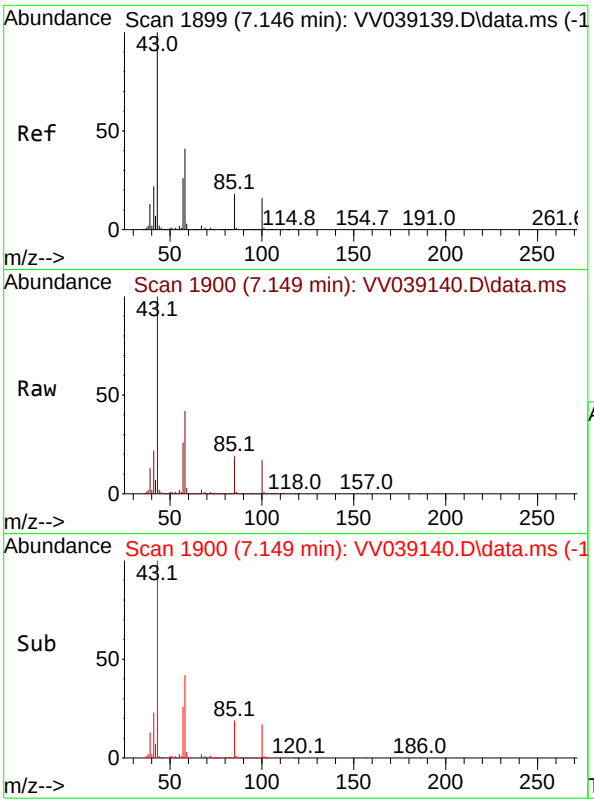


#50
Toluene-d8
Concen: 92.932 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 98 Resp: 2052477

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.2



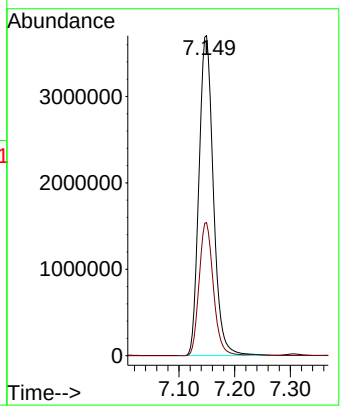


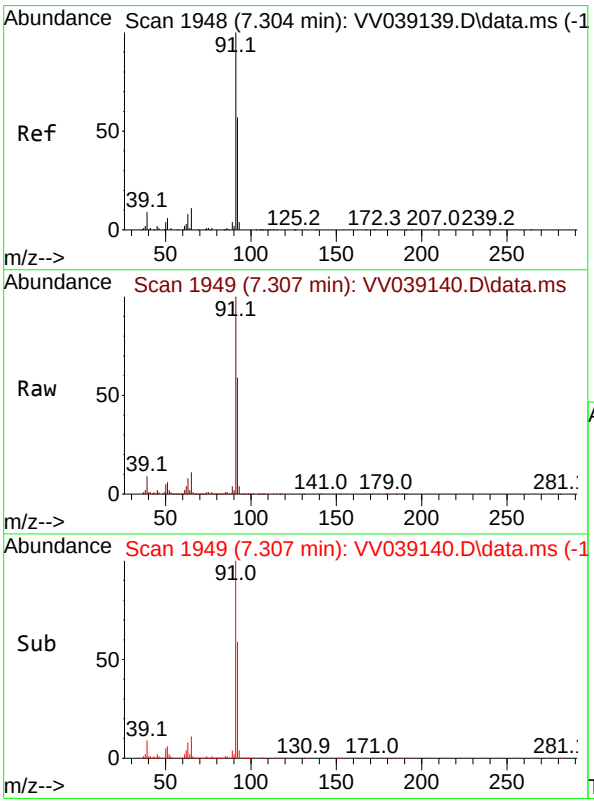
#51
4-Methyl-2-Pentanone
Concen: 539.372 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 6674594

Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.3	48.5

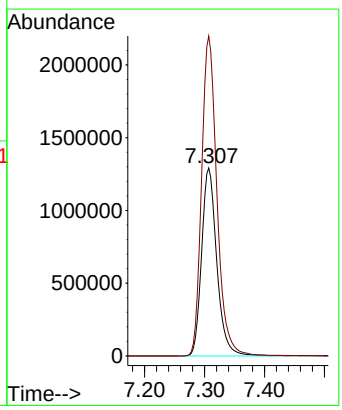


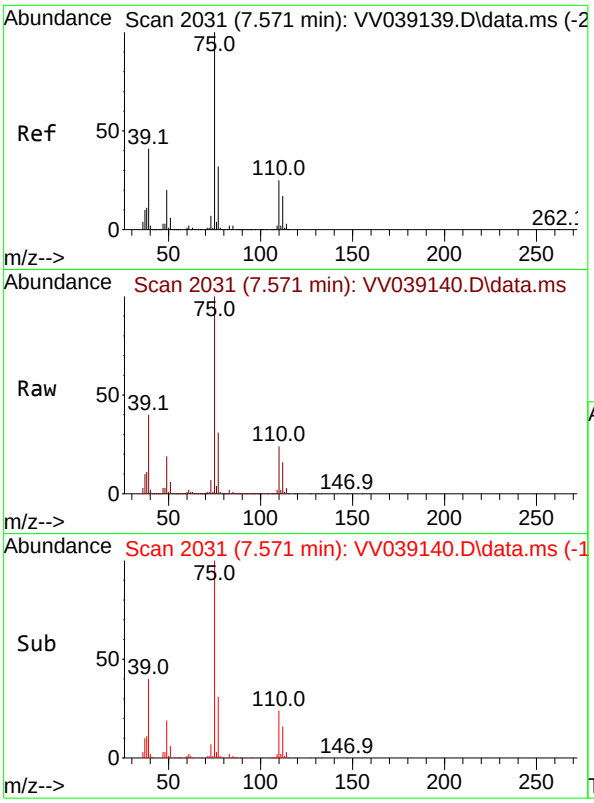


#52
Toluene
Concen: 105.813 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 92 Resp: 2271340

Ion	Ratio	Lower	Upper
92	100		
91	172.4	139.2	208.8



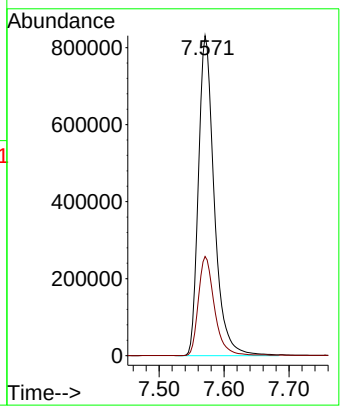


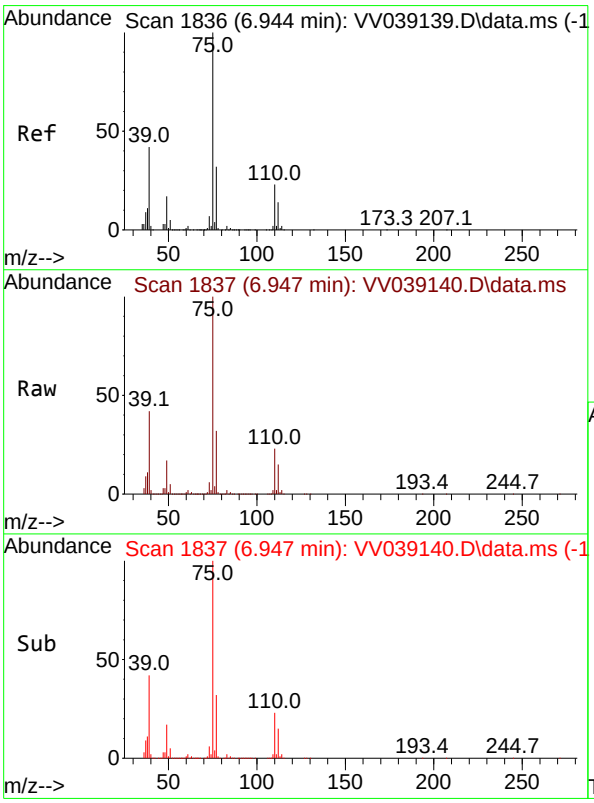
#53
t-1,3-Dichloropropene
Concen: 110.970 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 1408125

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.9	38.9

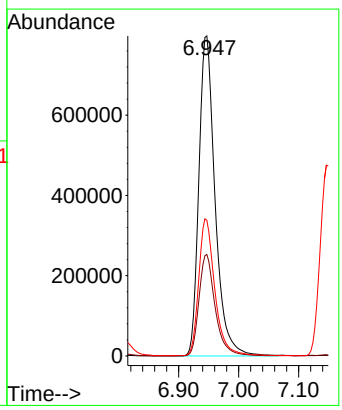


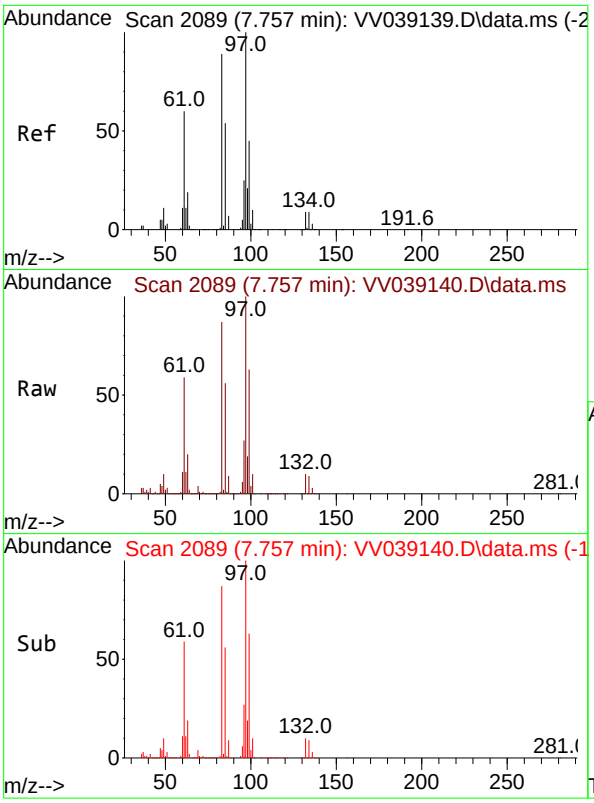


#54
cis-1,3-Dichloropropene
Concen: 107.178 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1501380

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.5	38.3
39	42.3	33.8	50.6



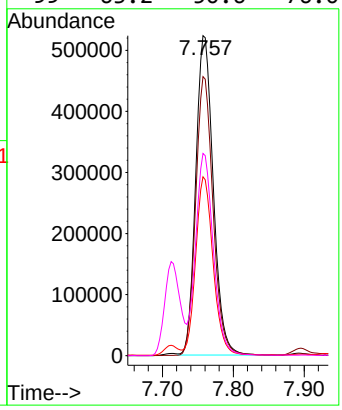


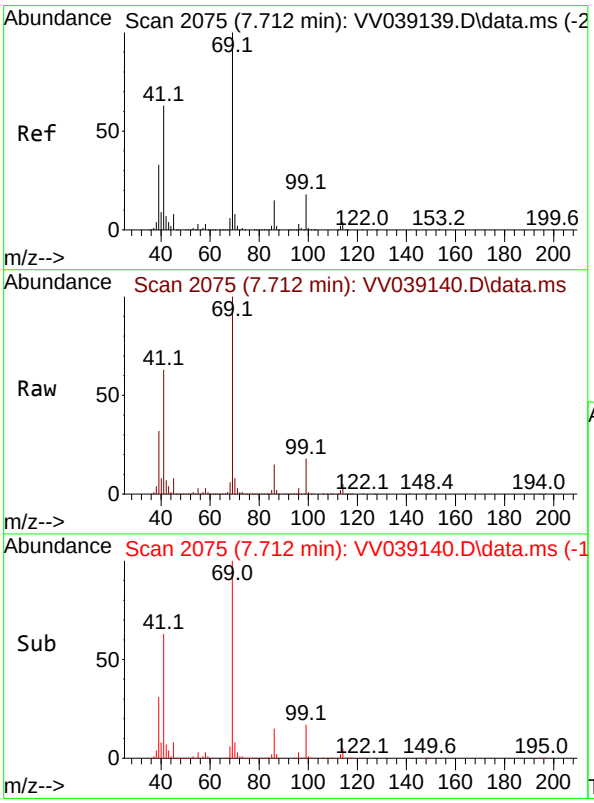
#55
1,1,2-Trichloroethane
Concen: 93.280 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 897804

Ion	Ratio	Lower	Upper
97	100		
83	87.2	71.1	106.7
85	55.8	44.6	67.0
99	63.2	50.6	76.0

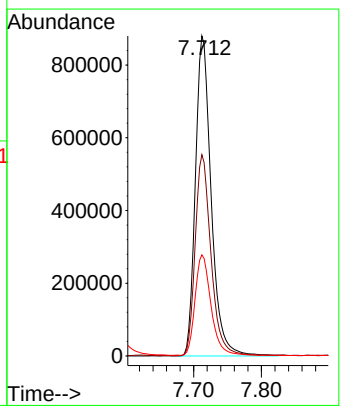


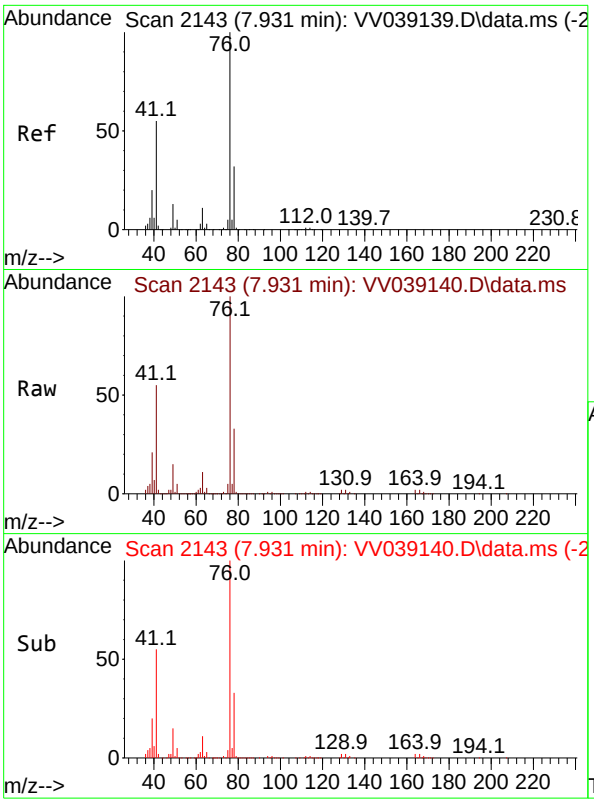


#56
Ethyl methacrylate
Concen: 124.621 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 69 Resp: 1424432

Ion	Ratio	Lower	Upper
69	100		
41	62.8	50.7	76.1
39	31.6	26.0	39.0



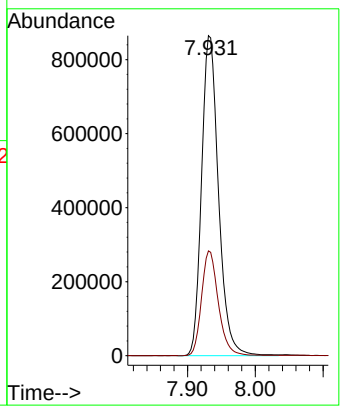


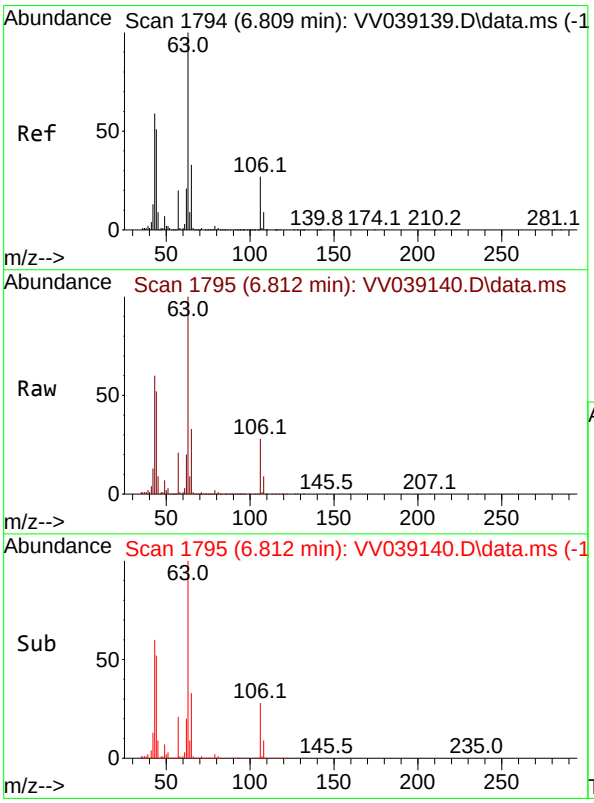
#57
1,3-Dichloropropane
Concen: 98.832 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 1501225

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.1	39.1

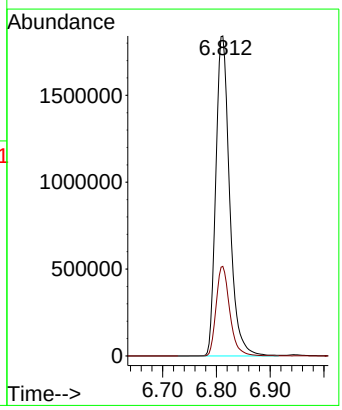


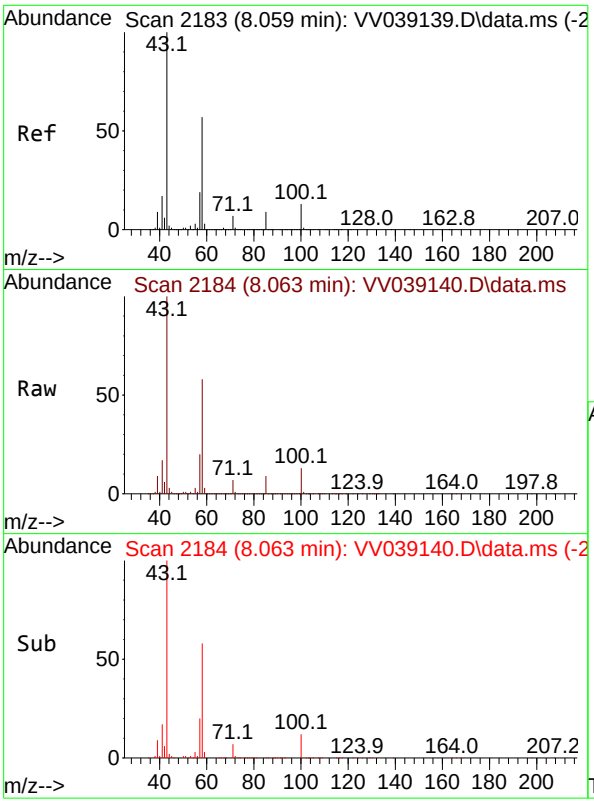


#58
2-Chloroethyl Vinyl ether
Concen: 498.705 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 63 Resp: 3282267

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.1	33.1



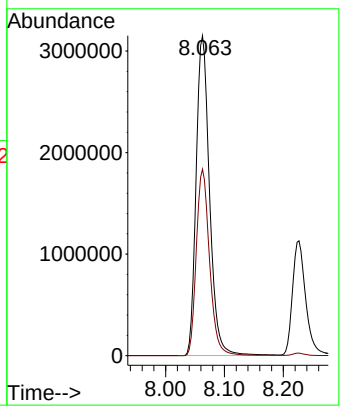


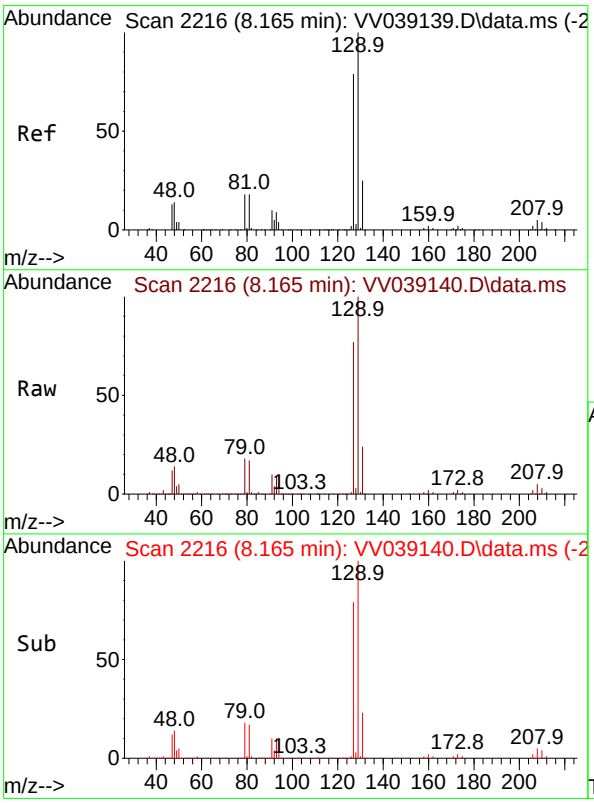
#59
2-Hexanone
Concen: 497.186 ug/l
RT: 8.063 min Scan# 21
Delta R.T. 0.004 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 4988835

Ion	Ratio	Lower	Upper
43	100		
58	57.6	28.3	85.0

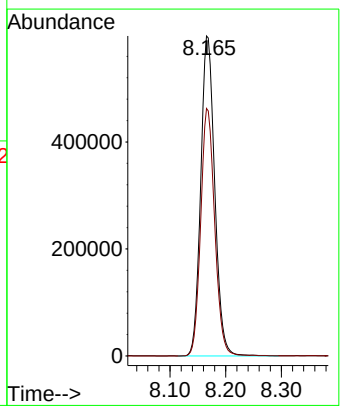


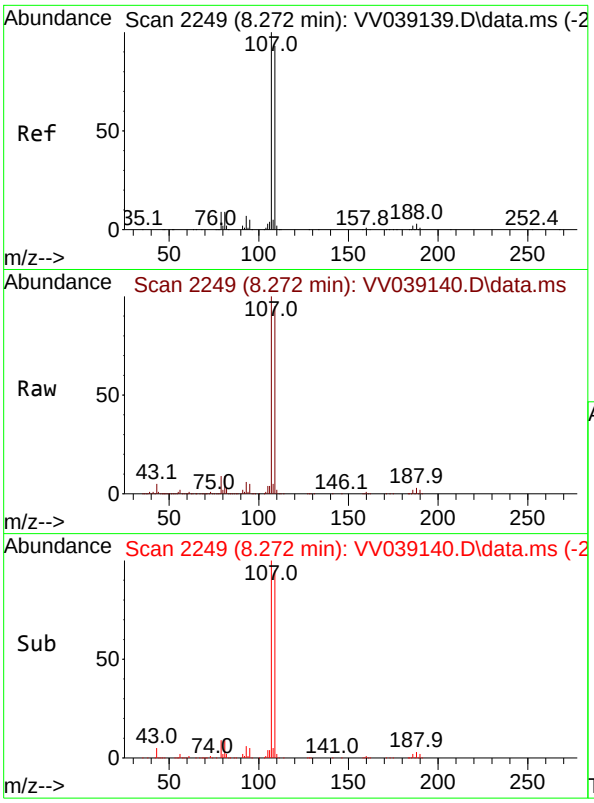


#60
Dibromochloromethane
Concen: 95.206 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:129 Resp: 1044126

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.3	117.9



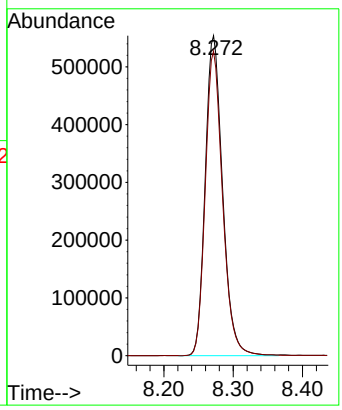


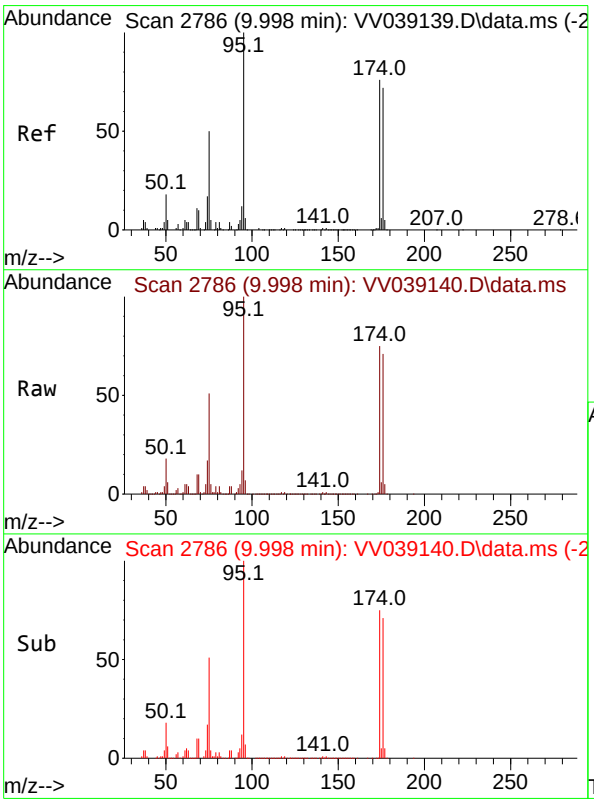
#61
1,2-Dibromoethane
Concen: 97.622 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 960914

Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.6	112.0

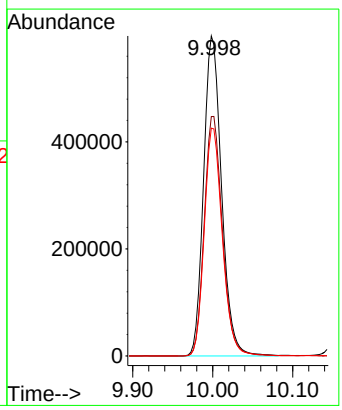


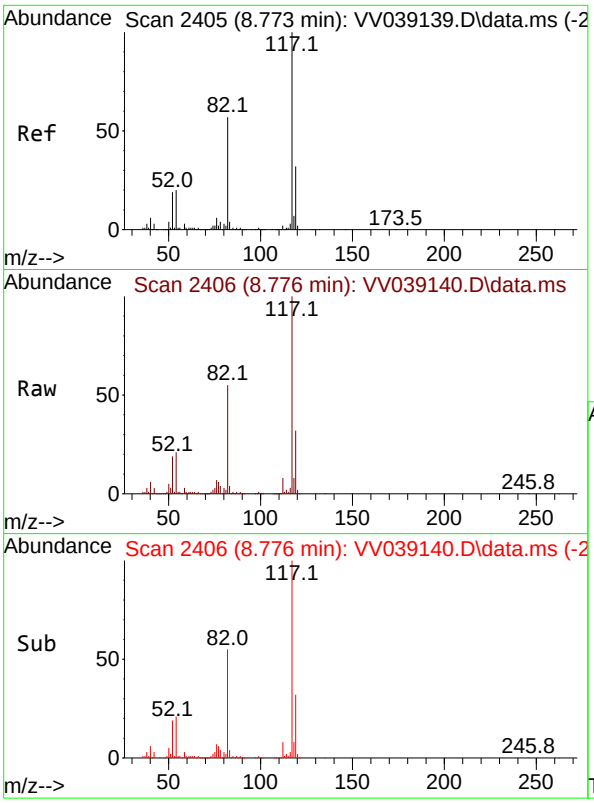


#62
4-Bromofluorobenzene
Concen: 103.112 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 95 Resp: 937505

Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	150.4
176	71.8	0.0	144.2



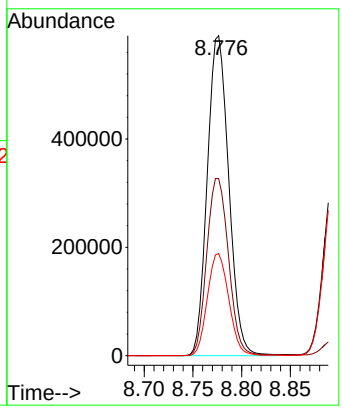


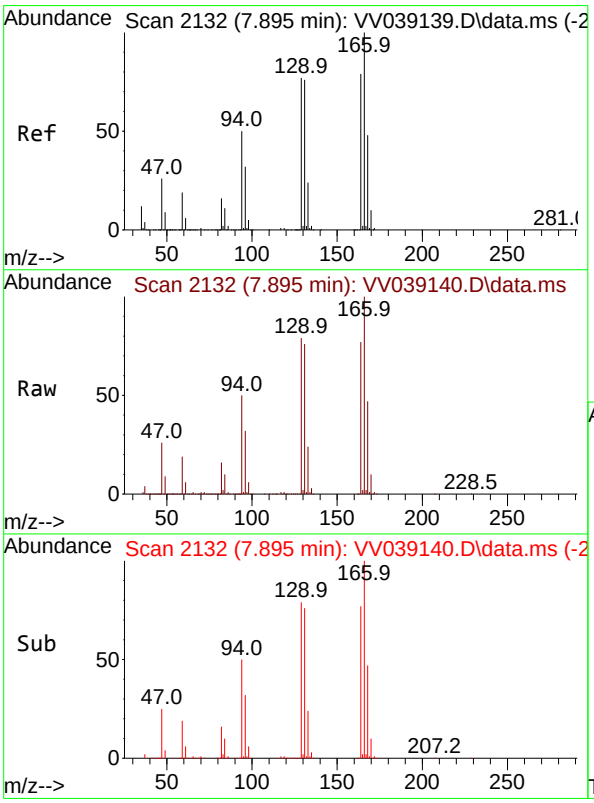
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 904902

Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.4	68.2
119	31.9	25.6	38.4

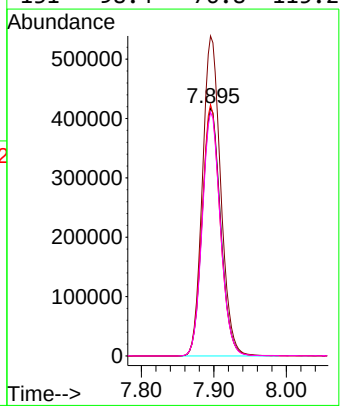


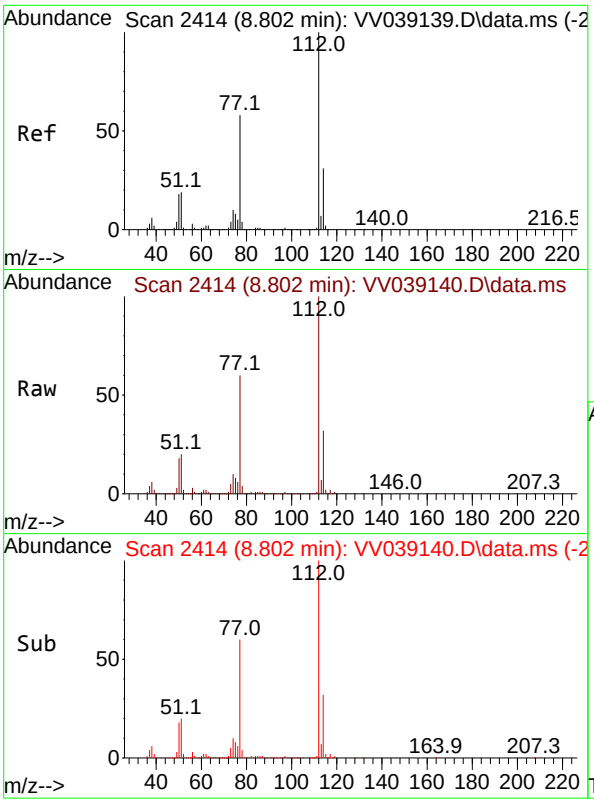


#64
Tetrachloroethene
Concen: 97.167 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:164 Resp: 736462

Ion	Ratio	Lower	Upper
164	100		
166	129.1	101.6	152.4
129	101.5	78.5	117.7
131	98.4	76.8	115.2



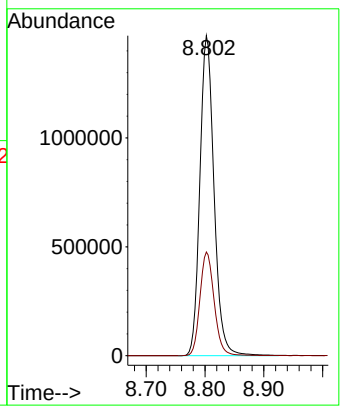


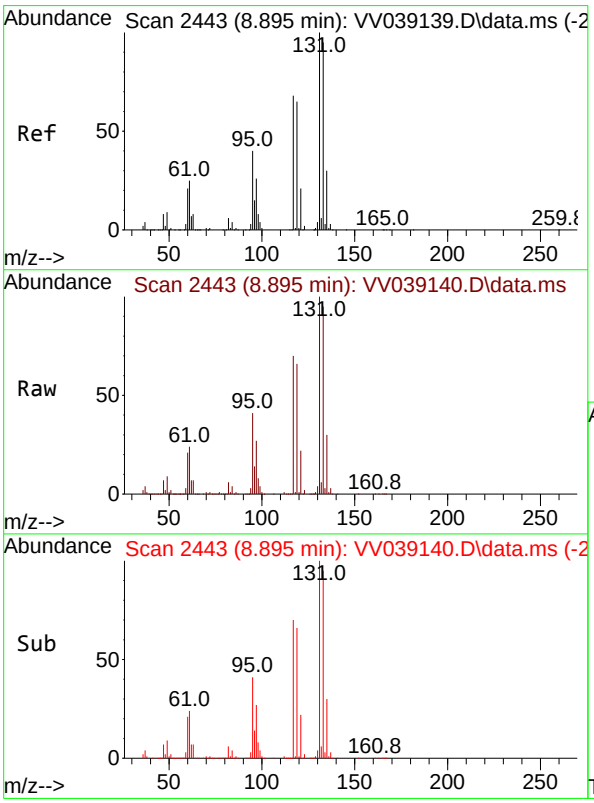
#65
Chlorobenzene
Concen: 97.480 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 2457021

Ion	Ratio	Lower	Upper
112	100		
114	32.4	24.6	37.0

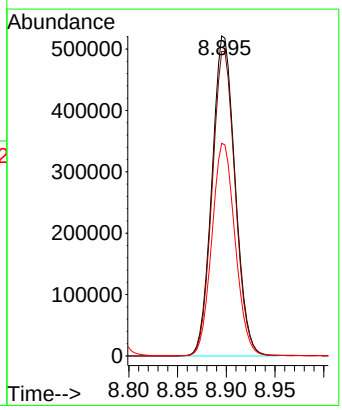


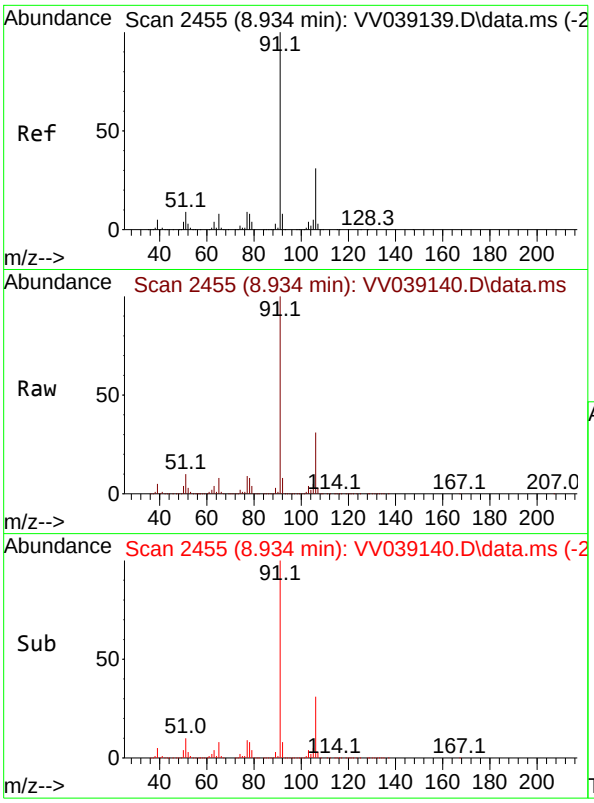


#66
1,1,1,2-Tetrachloroethane
Concen: 94.816 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:131 Resp: 863523

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	141.8
119	66.6	33.3	99.8



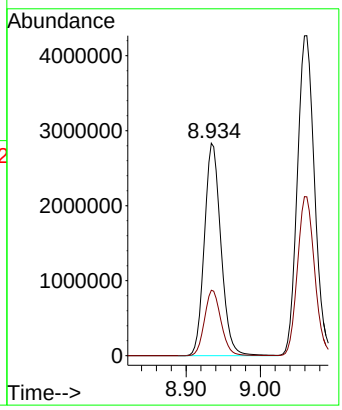


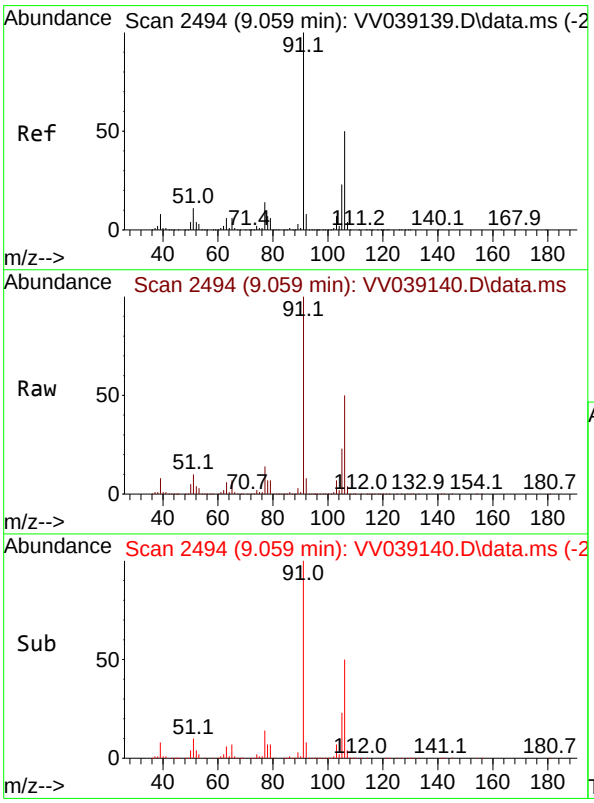
#67
Ethyl Benzene
Concen: 114.700 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 4376266

Ion	Ratio	Lower	Upper
91	100		
106	30.8	24.6	37.0

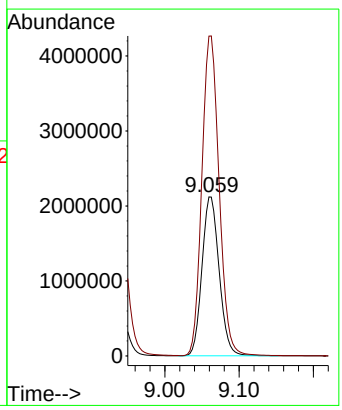


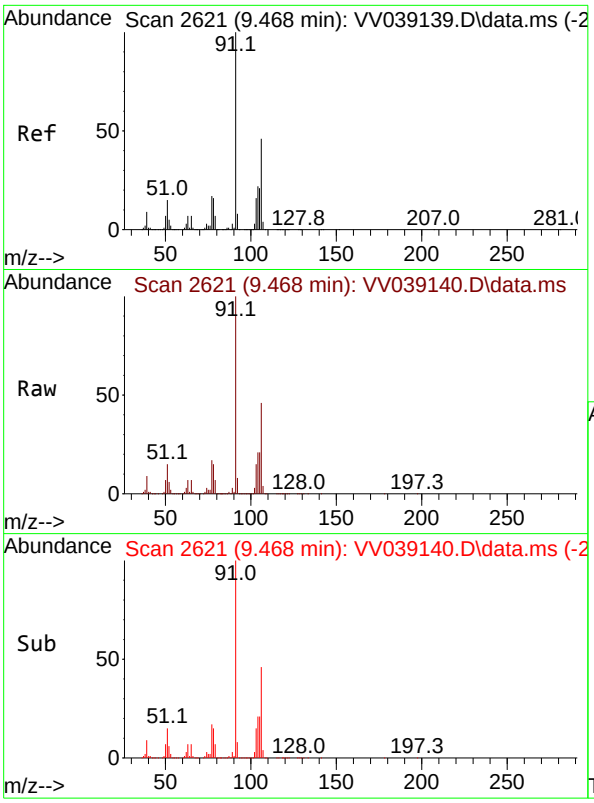


#68
m/p-Xylenes
Concen: 230.657 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:106 Resp: 3396653

Ion	Ratio	Lower	Upper
106	100		
91	202.4	162.5	243.7



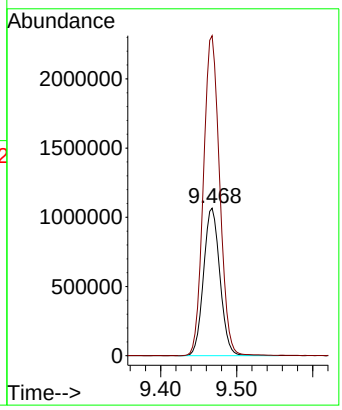


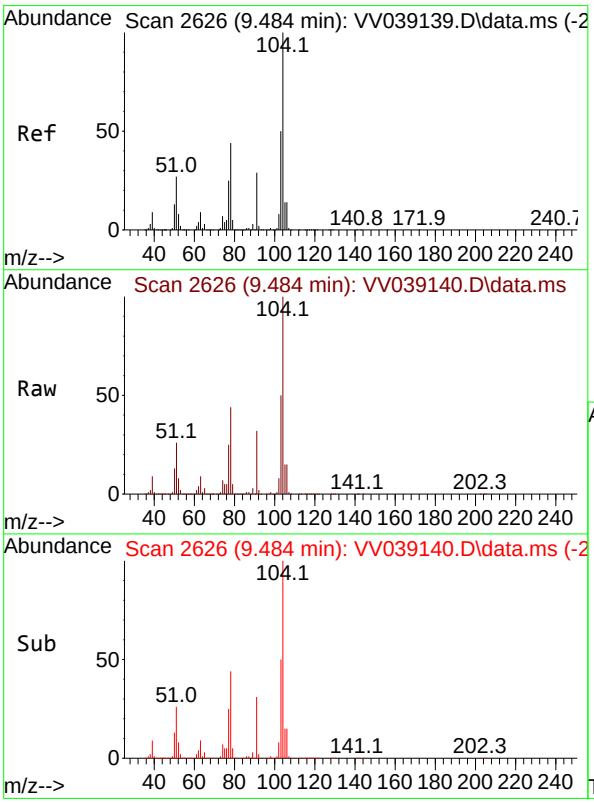
#69
o-Xylene
Concen: 122.170 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 1592963

Ion	Ratio	Lower	Upper
106	100		
91	215.6	109.1	327.3

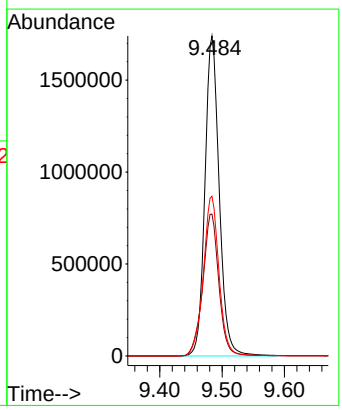


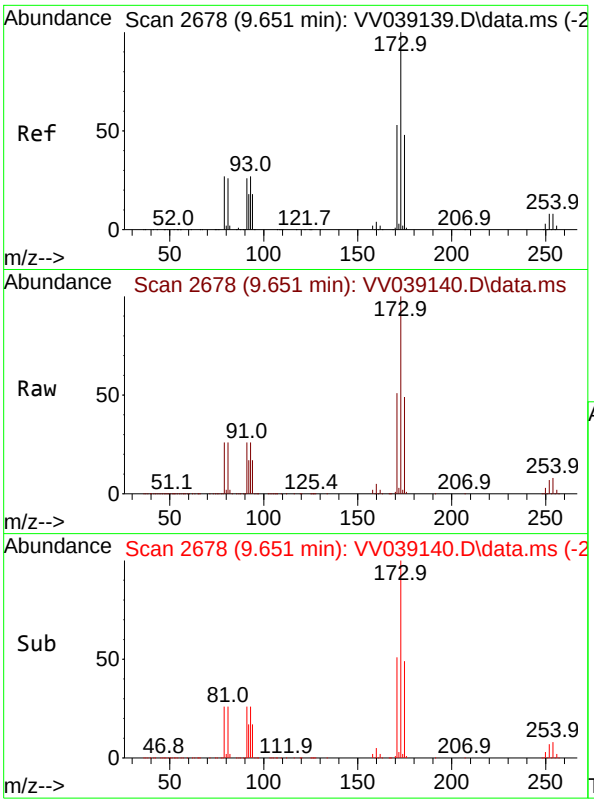


#70
Styrene
Concen: 99.832 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:104 Resp: 2781887

Ion	Ratio	Lower	Upper
104	100		
78	49.7	39.8	59.6
103	54.8	43.4	65.2



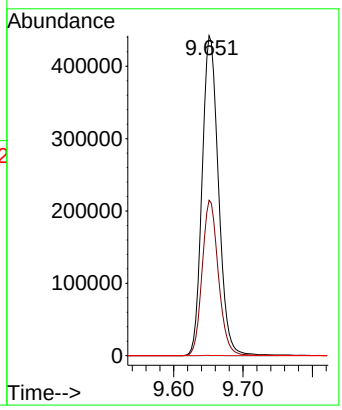


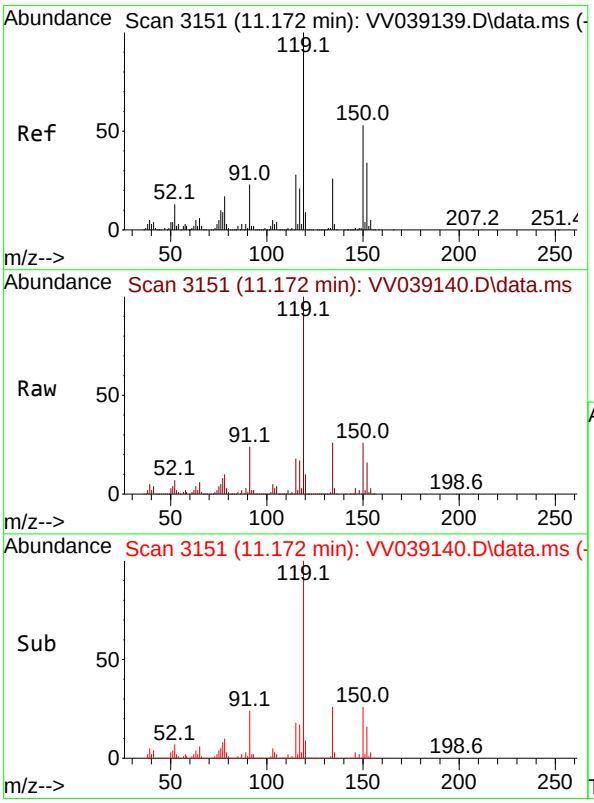
#71
Bromoform
Concen: 101.838 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 724467

Ion	Ratio	Lower	Upper
173	100		
175	48.2	23.9	71.7
254	0.1	0.1	0.1

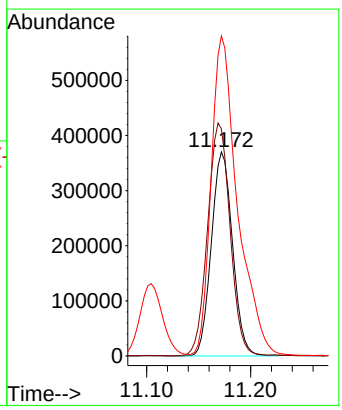


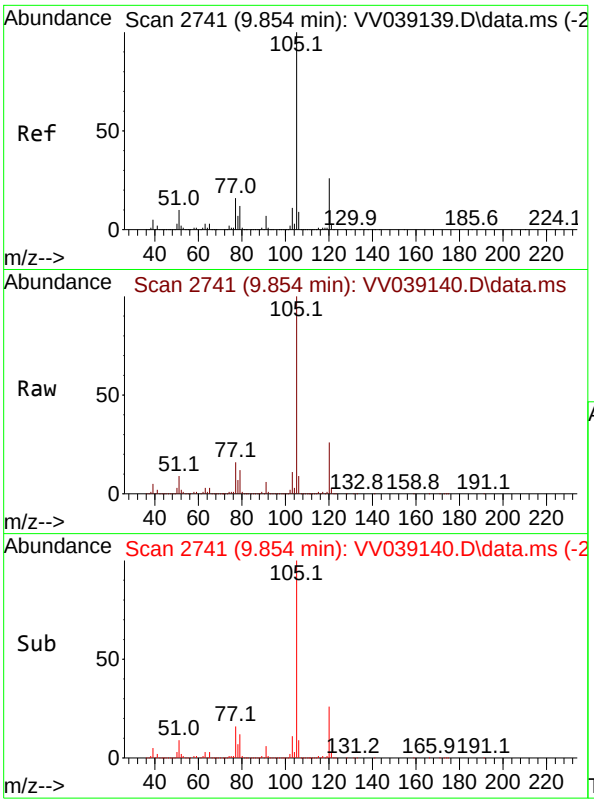


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:152 Resp: 523452

Ion	Ratio	Lower	Upper
152	100		
115	121.0	44.8	134.4
150	195.4	0.0	353.8



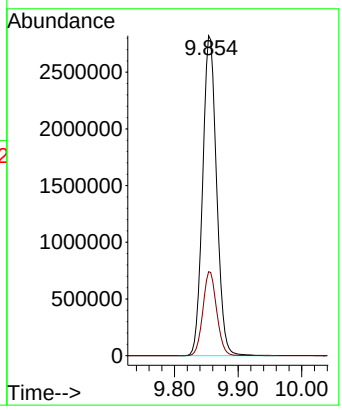


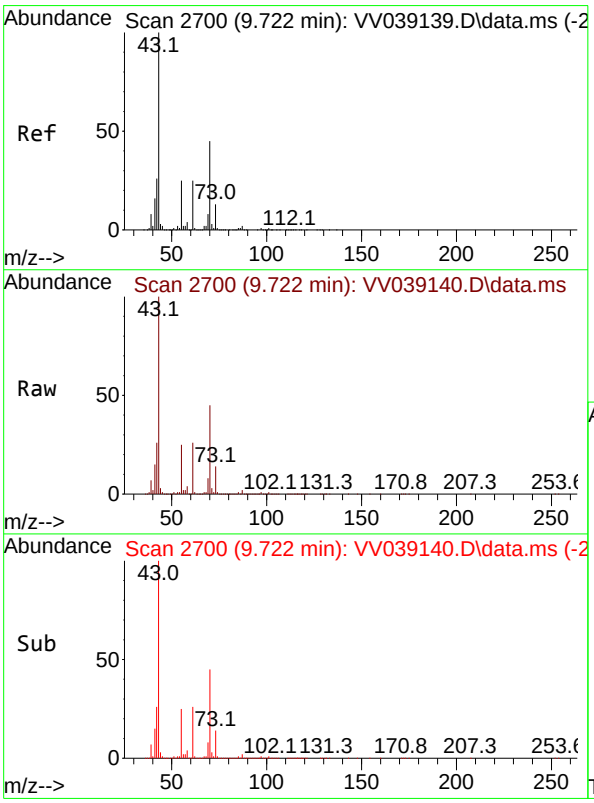
#73
Isopropylbenzene
Concen: 112.946 ug/l
RT: 9.854 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 4288139

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.1

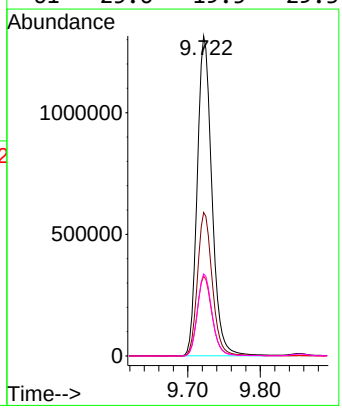


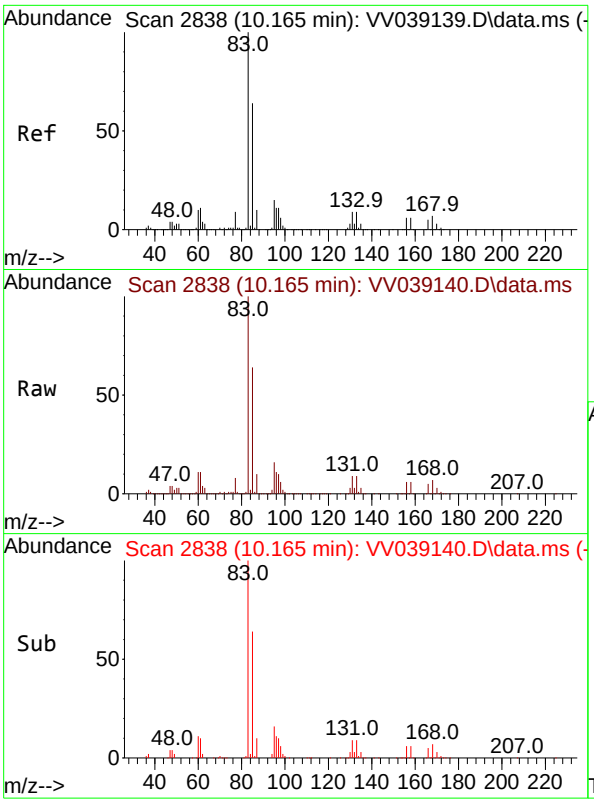


#74
N-amyl acetate
Concen: 121.948 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 1846779

Ion	Ratio	Lower	Upper
43	100		
70	45.4	35.4	53.0
55	25.4	20.6	30.8
61	25.6	19.5	29.3



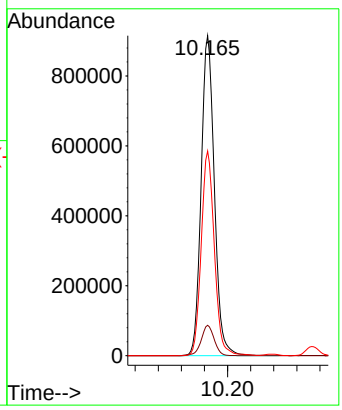


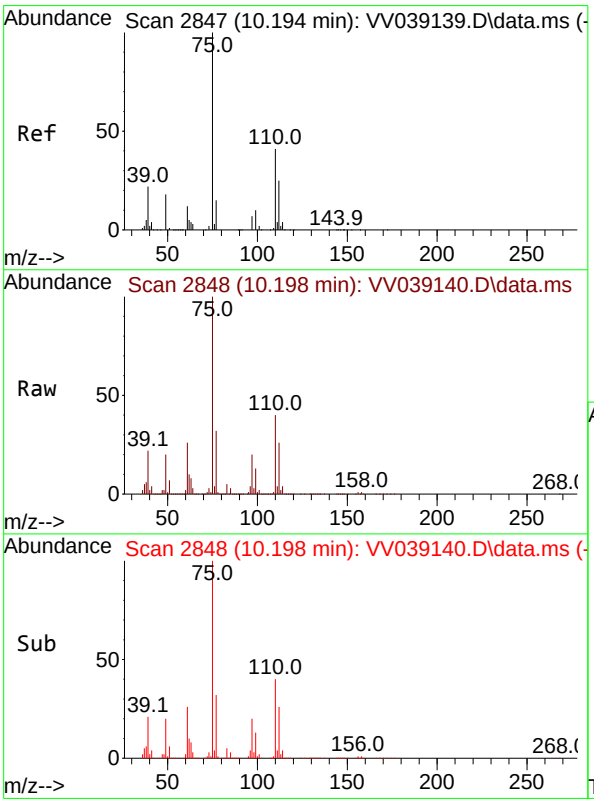
#75
1,1,2,2-Tetrachloroethane
Concen: 87.406 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 1453989

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.7
85	63.6	31.9	95.9

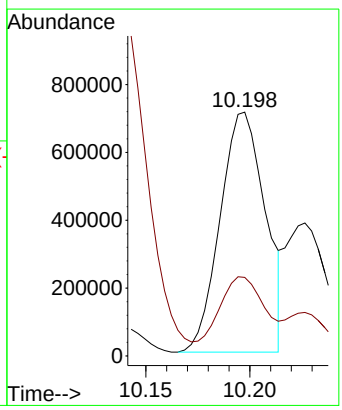


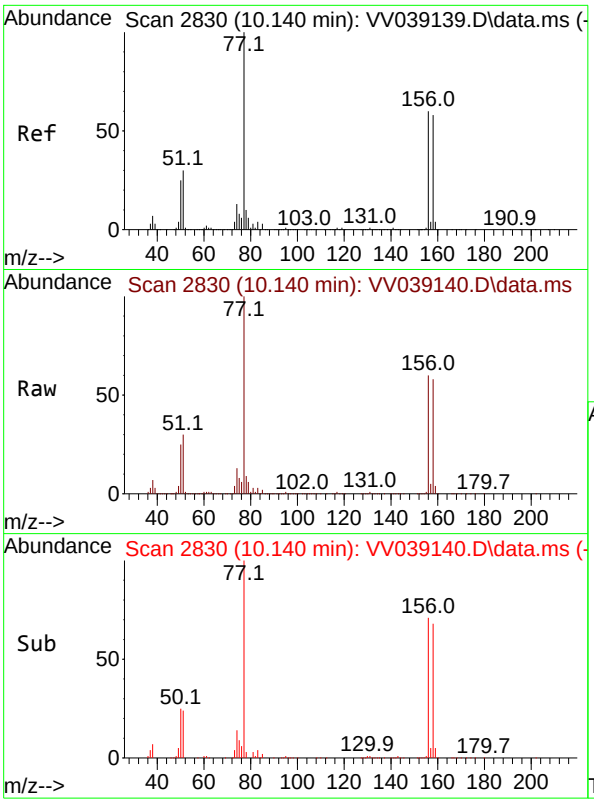


#76
1,2,3-Trichloropropane
Concen: 89.827 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1070580

Ion	Ratio	Lower	Upper
75	100		
77	25.0	11.3	33.8



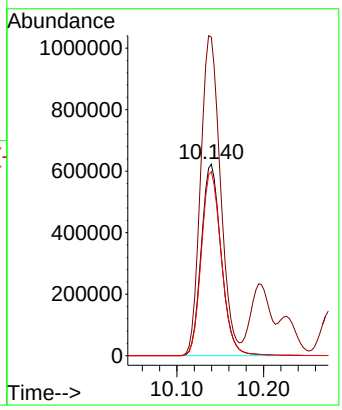


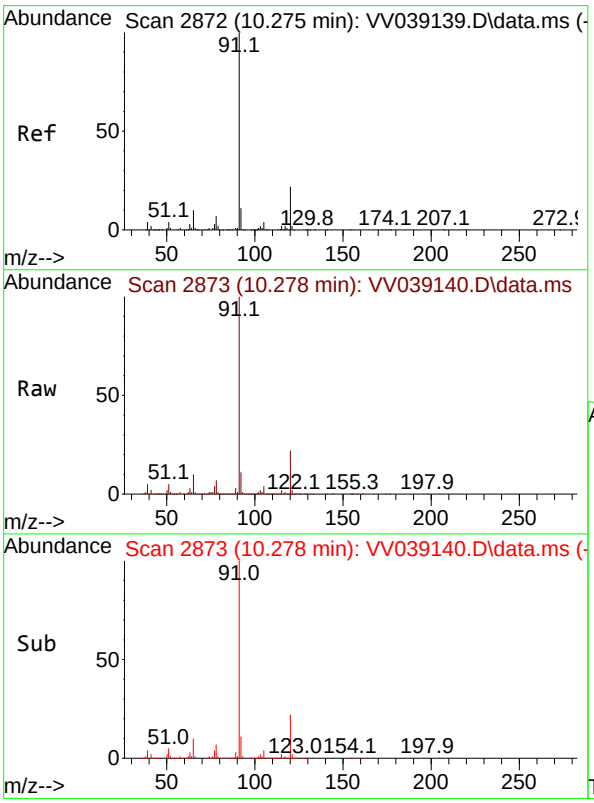
#77
Bromobenzene
Concen: 100.897 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 993863

Ion	Ratio	Lower	Upper
156	100		
77	166.1	83.4	250.1
158	96.7	48.8	146.4

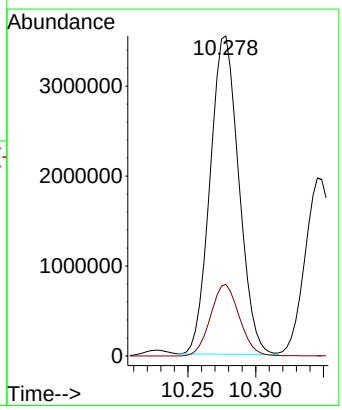


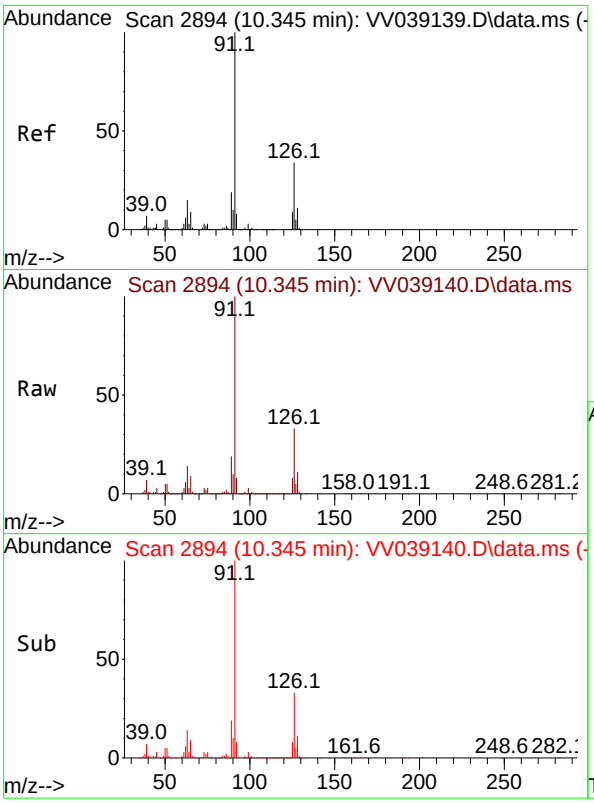


#78
n-propylbenzene
Concen: 112.910 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 91 Resp: 5220220

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3



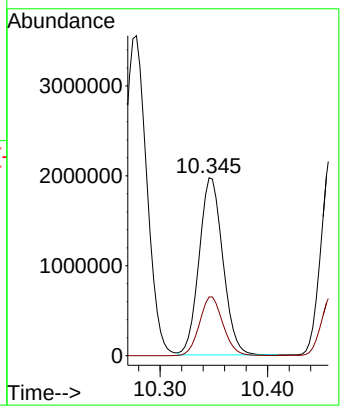


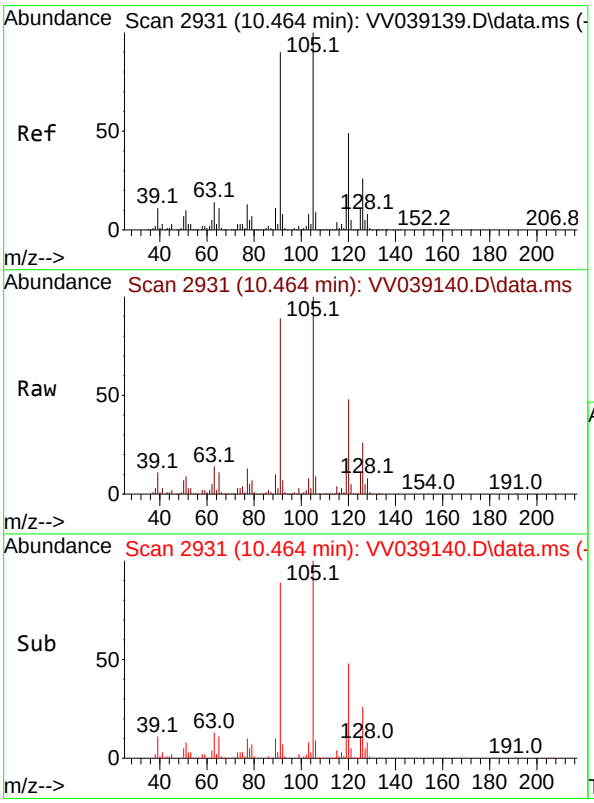
#79
2-Chlorotoluene
Concen: 109.093 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 3018051

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.7	50.0

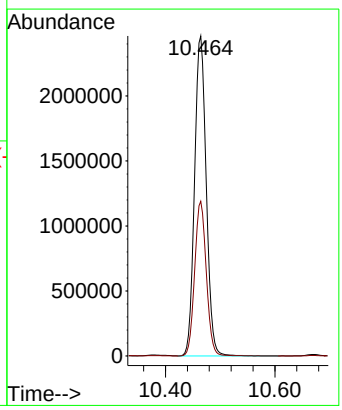


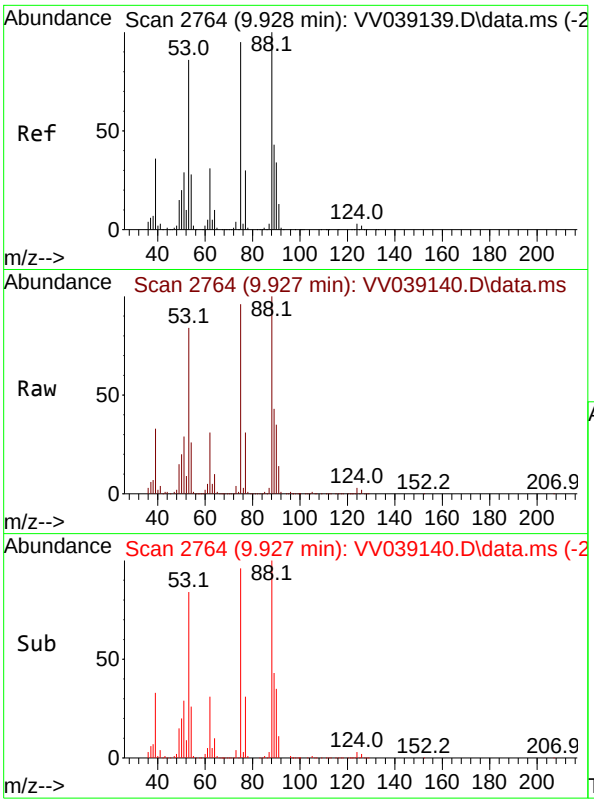


#80
1,3,5-Trimethylbenzene
Concen: 115.284 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:105 Resp: 3638030

Ion	Ratio	Lower	Upper
105	100		
120	48.2	24.3	72.8



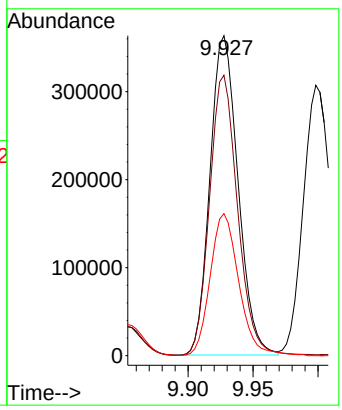


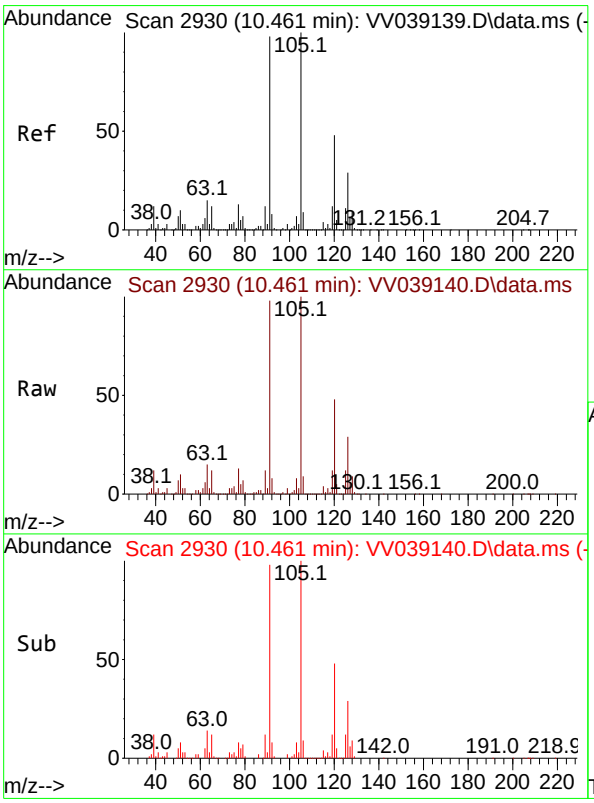
#81
trans-1,4-Dichloro-2-butene
Concen: 109.871 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 545452

Ion	Ratio	Lower	Upper
75	100		
53	87.6	72.5	108.7
89	45.5	37.2	55.8

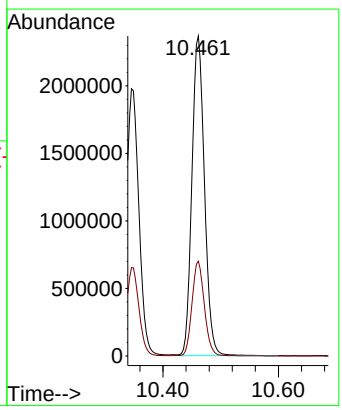


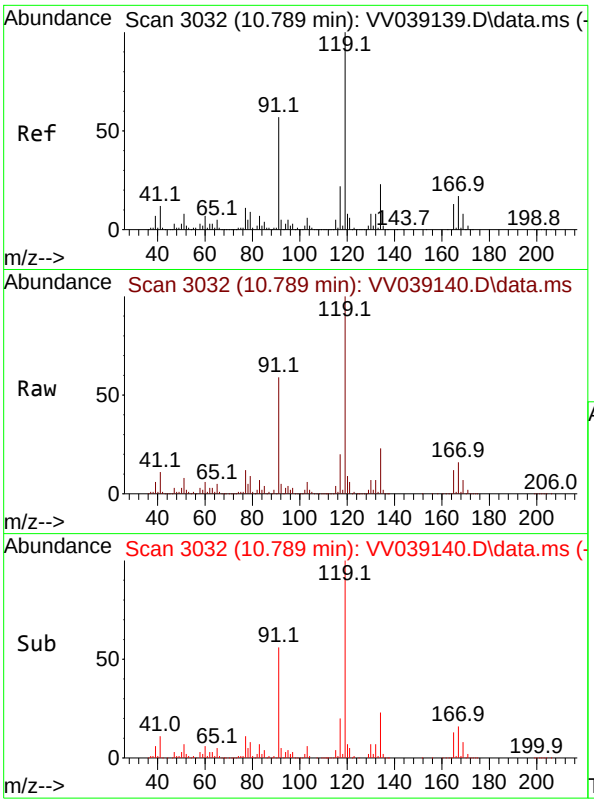


#82
4-Chlorotoluene
Concen: 111.396 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 91 Resp: 3573507

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.5	43.6



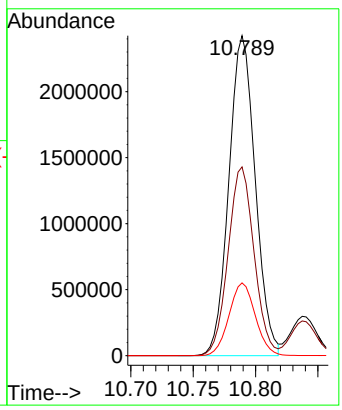


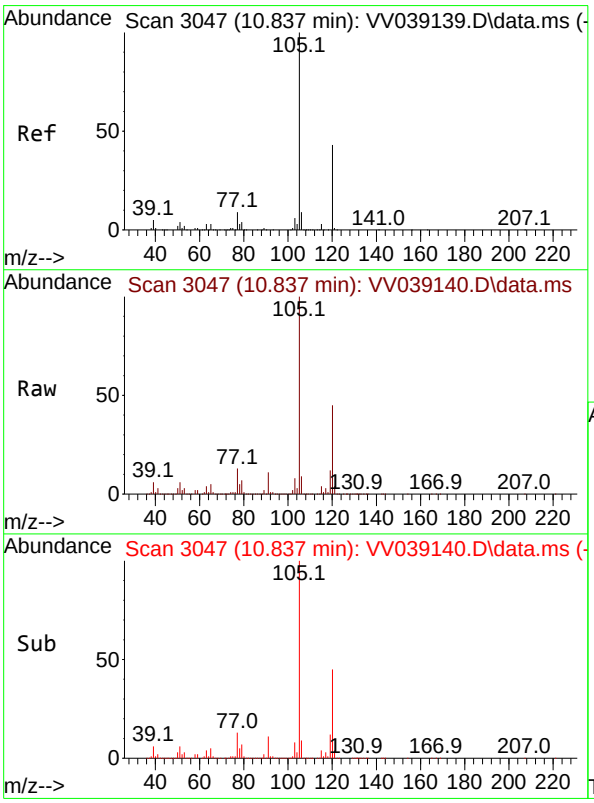
#83
tert-Butylbenzene
Concen: 113.541 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 3572813

Ion	Ratio	Lower	Upper
119	100		
91	58.2	28.5	85.6
134	22.8	11.5	34.4

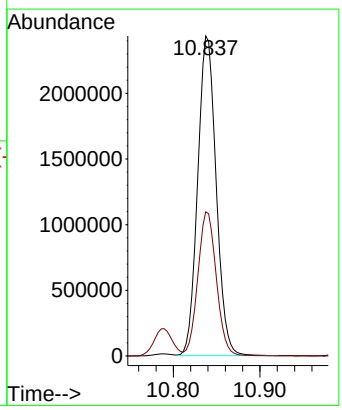


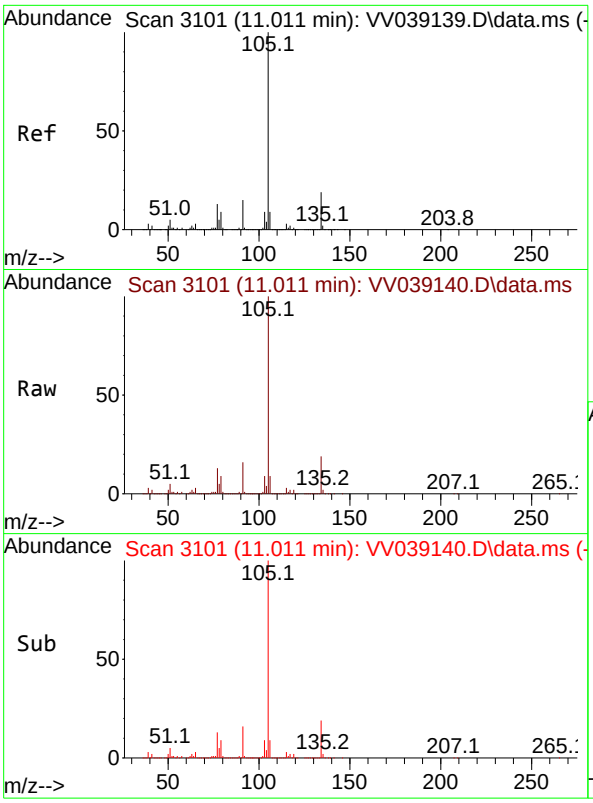


#84
1,2,4-Trimethylbenzene
Concen: 117.550 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:105 Resp: 3601355

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.4	67.2



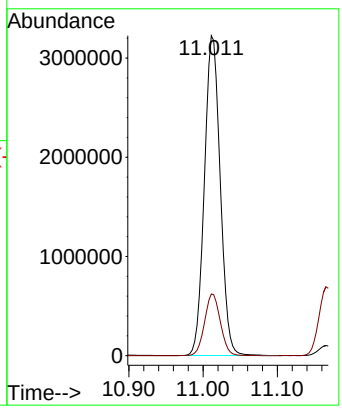


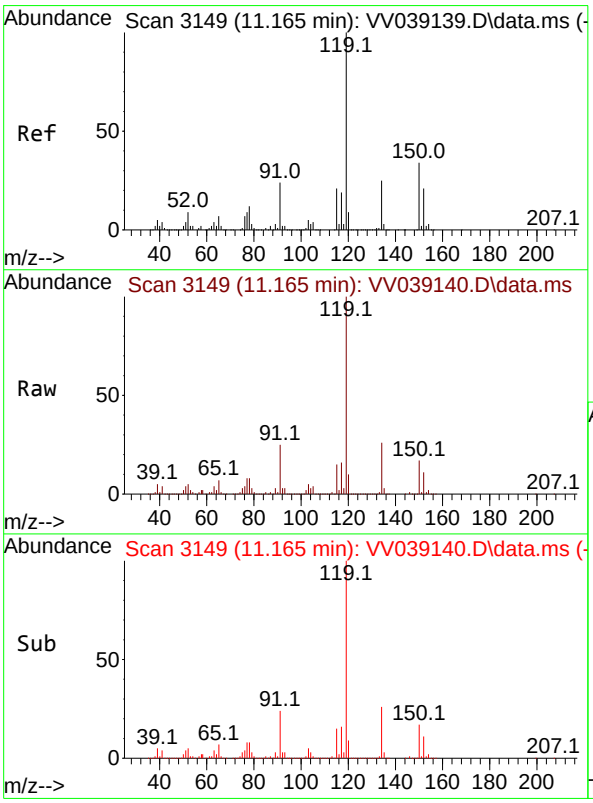
#85
sec-Butylbenzene
Concen: 114.135 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 4763689

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.6	28.8

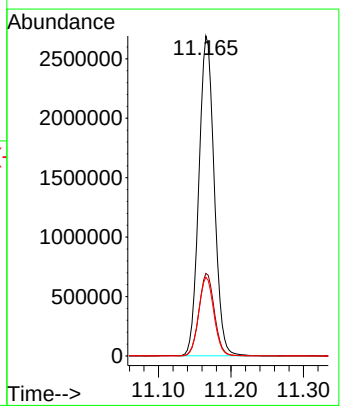


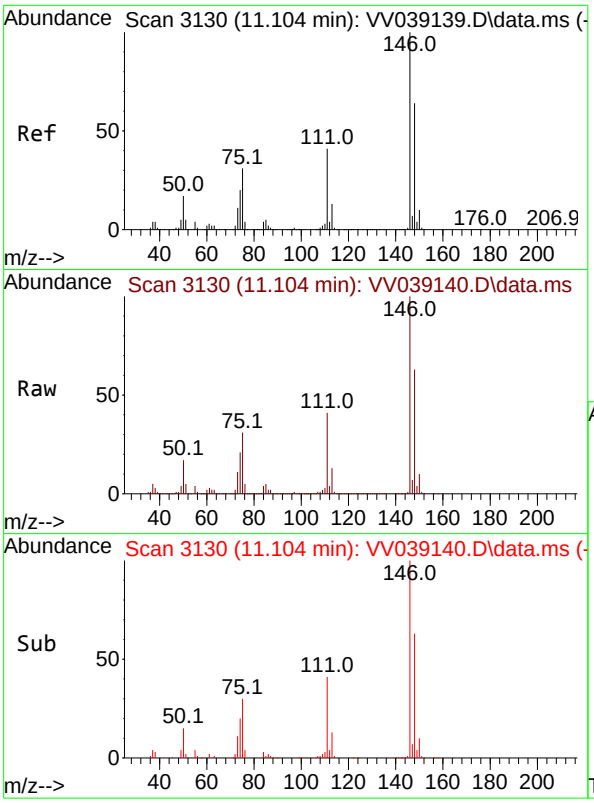


#86
p-Isopropyltoluene
Concen: 113.666 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:119 Resp: 3948556

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.7	38.0
91	24.4	12.0	36.1



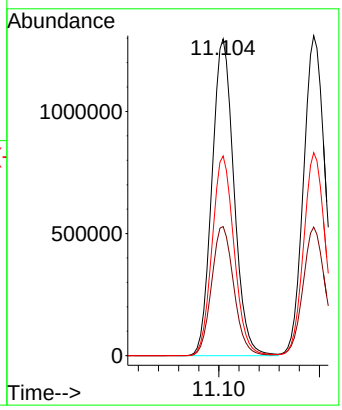


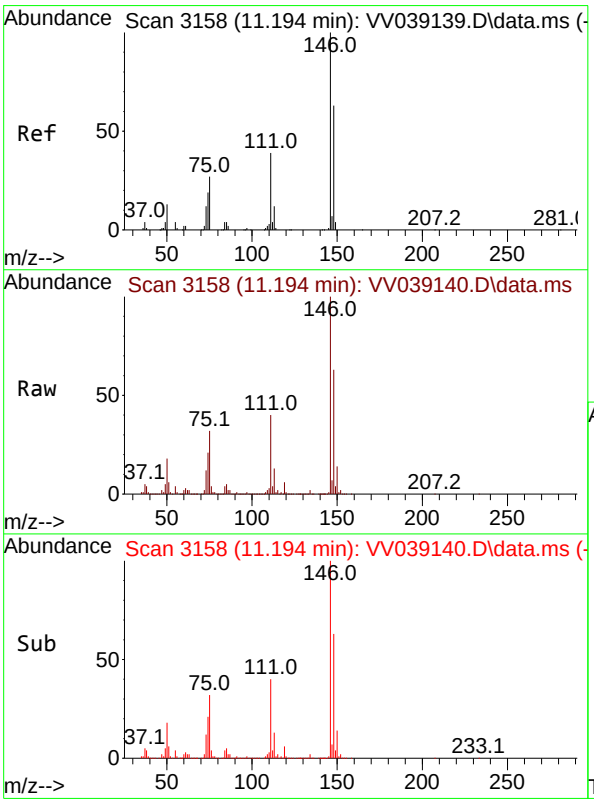
#87
1,3-Dichlorobenzene
Concen: 98.849 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1970594

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.9	62.8
148	63.3	31.8	95.3

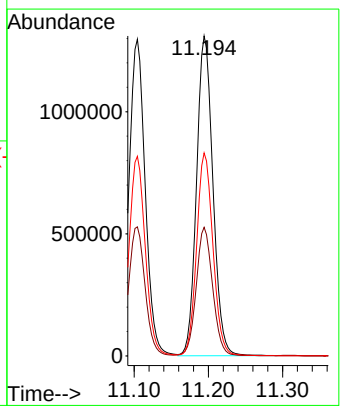


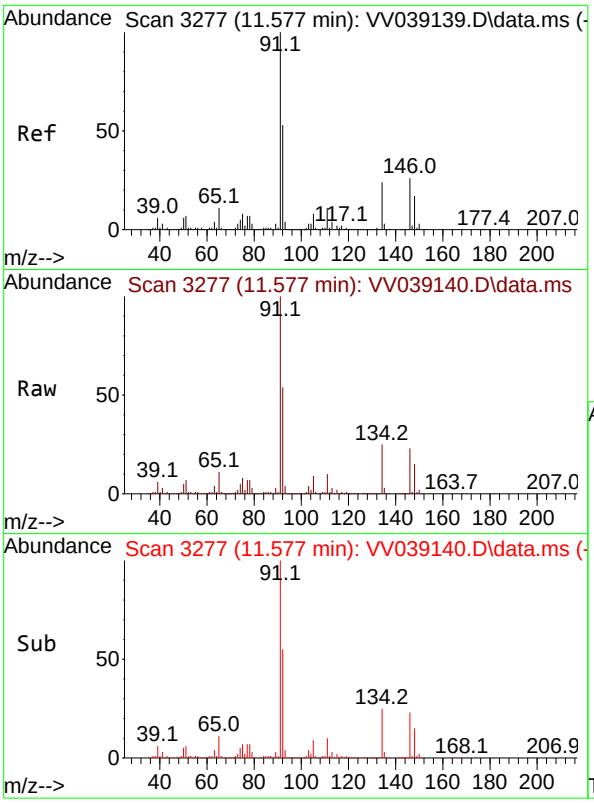


#88
1,4-Dichlorobenzene
Concen: 91.172 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:146 Resp: 2008676

Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.3	60.8
148	63.3	31.4	94.2



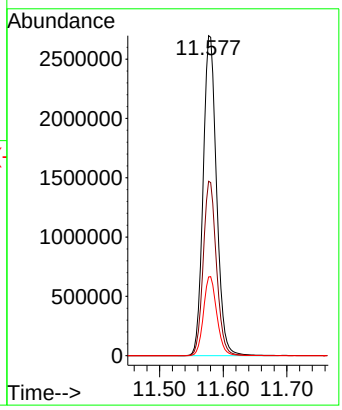


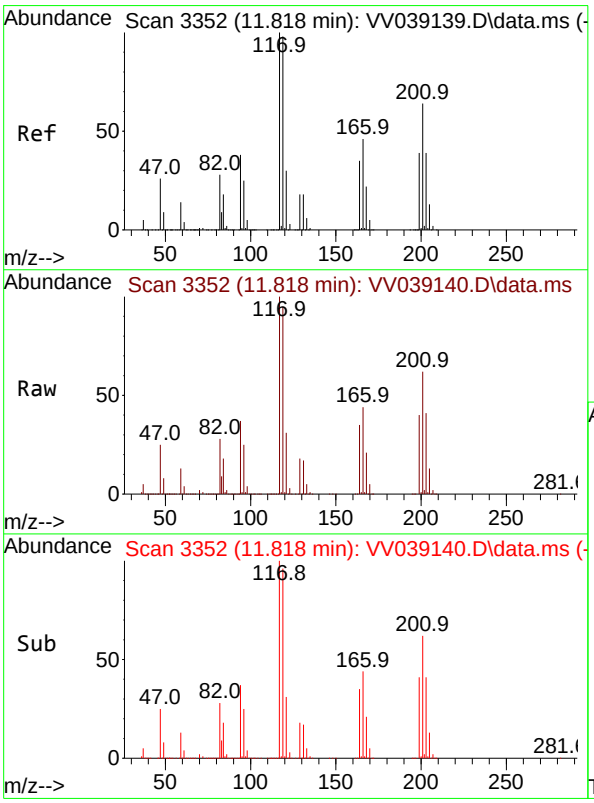
#89
n-Butylbenzene
Concen: 118.754 ug/l
RT: 11.577 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 3939852

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.6	79.8
134	24.6	12.1	36.3

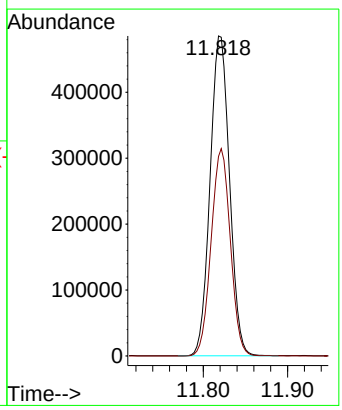


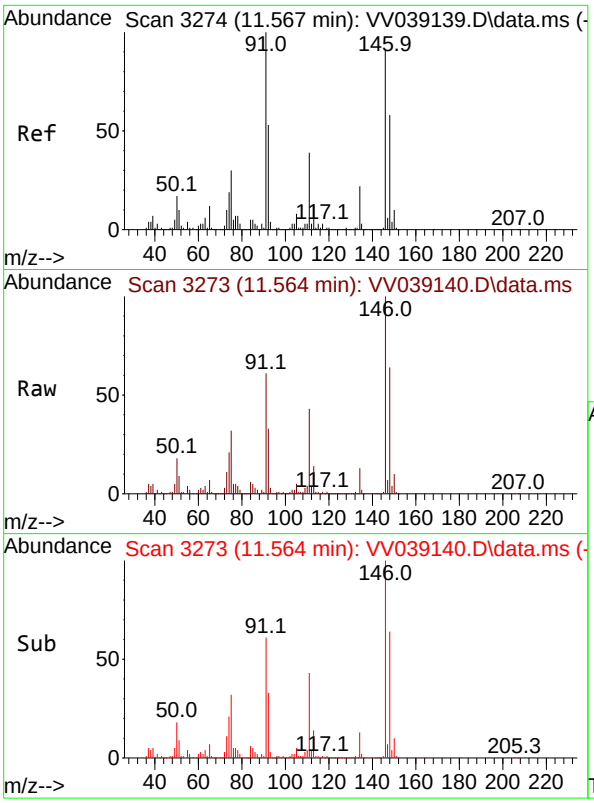


#90
Hexachloroethane
Concen: 90.794 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:117 Resp: 776688

Ion	Ratio	Lower	Upper
117	100		
201	64.0	32.3	96.8



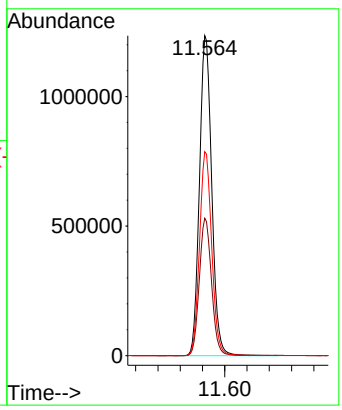


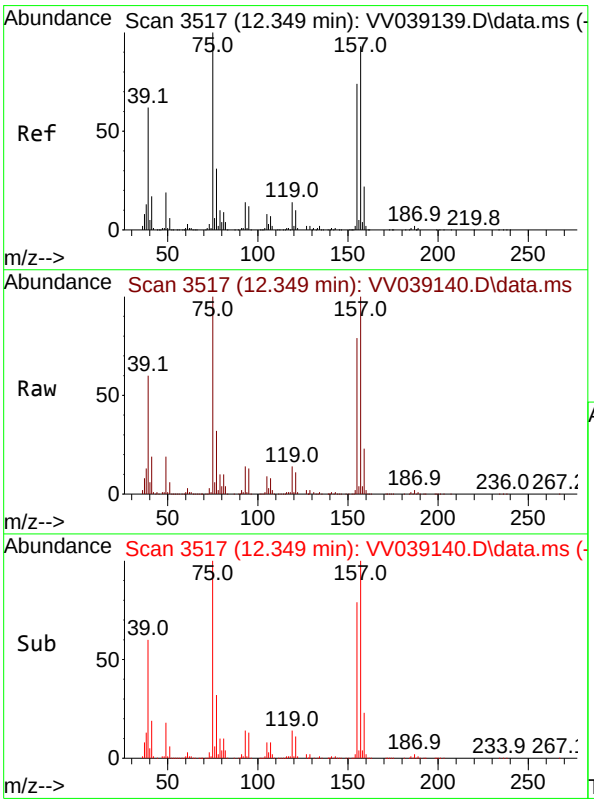
#91
1,2-Dichlorobenzene
Concen: 101.282 ug/l
RT: 11.564 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 1886394

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.5	64.5
148	63.5	31.9	95.7

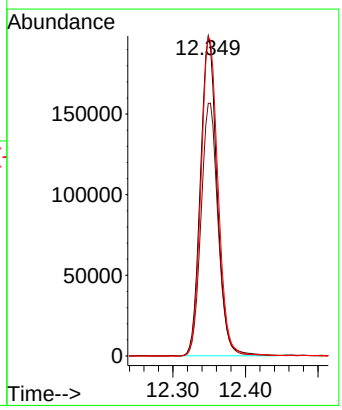


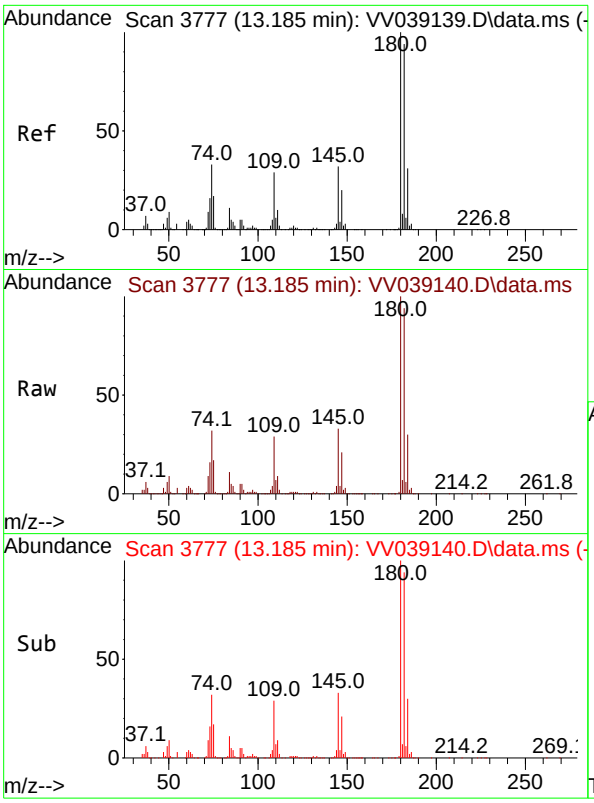


#92
1,2-Dibromo-3-Chloropropane
Concen: 100.015 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 316446

Ion	Ratio	Lower	Upper
75	100		
155	81.0	38.6	115.8
157	102.1	49.5	148.3



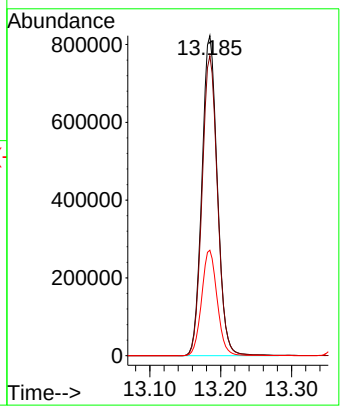


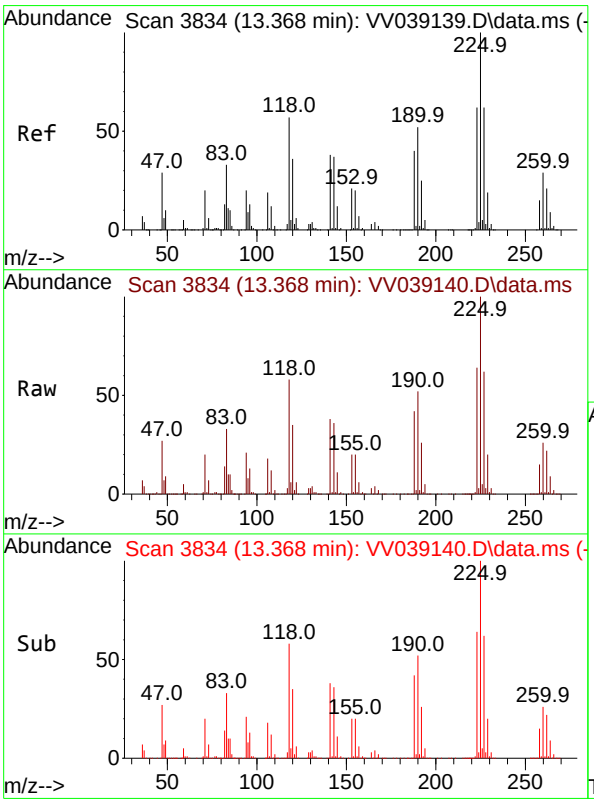
#93
1,2,4-Trichlorobenzene
Concen: 116.564 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 1244510

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.1	141.4
145	33.1	16.3	48.8

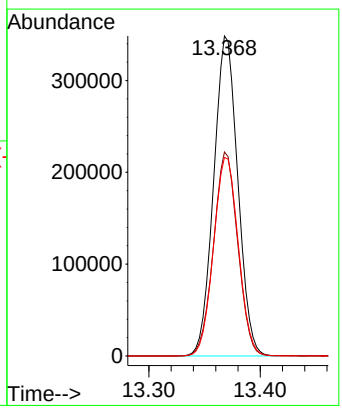


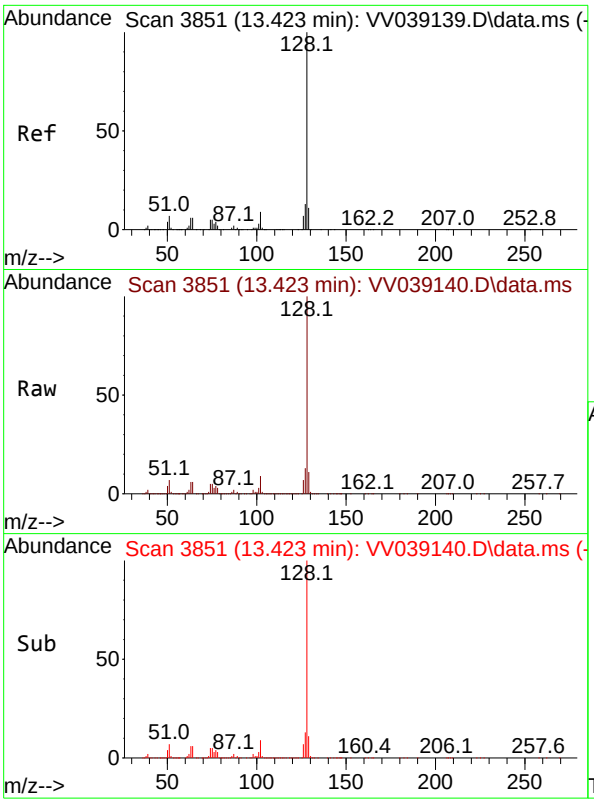


#94
Hexachlorobutadiene
Concen: 94.597 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:225 Resp: 524789

Ion	Ratio	Lower	Upper
225	100		
223	64.0	31.6	94.7
227	63.7	31.8	95.4



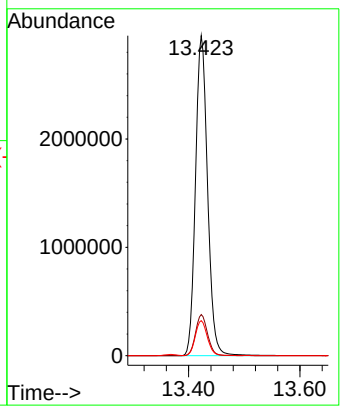


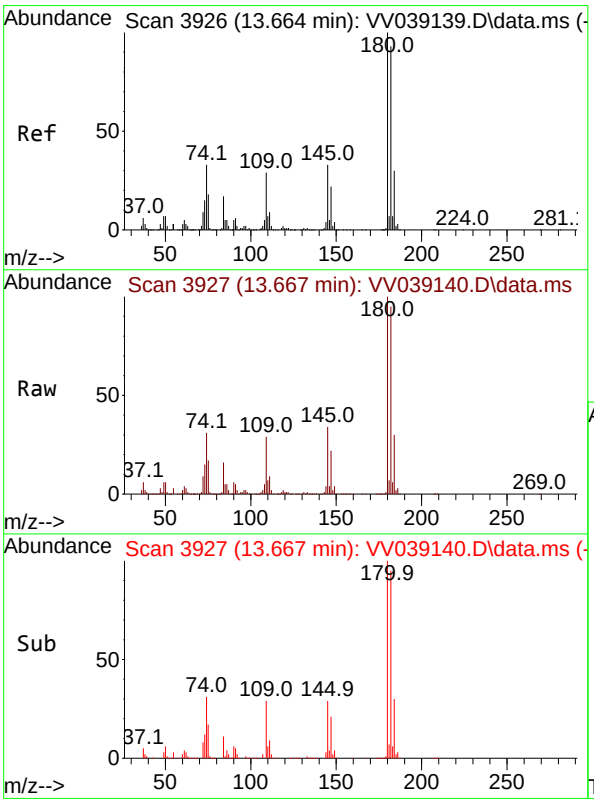
#95
Naphthalene
Concen: 129.371 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 4442612

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.6	13.0

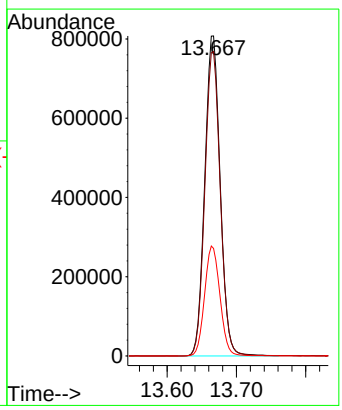




#96
1,2,3-Trichlorobenzene
Concen: 114.143 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:180 Resp: 1246406

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.9	140.8
145	34.2	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.596	168	492799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	835334	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	807740	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	425480	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.947	65	45267	6.347	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery =	12.700%#		
35) Dibromofluoromethane	4.503	113	37959	5.653	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery =	11.300%#		
50) Toluene-d8	7.239	98	117860	5.976	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery =	11.960%#		
62) 4-Bromofluorobenzene	10.008	95	39819	4.904	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery =	9.800%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	38031	4.875	ug/l	93
3) Chloromethane	1.230	50	43830	5.234	ug/l	97
4) Vinyl Chloride	1.298	62	45941	5.124	ug/l	99
5) Bromomethane	1.494	94	32301	5.715	ug/l	100
6) Chloroethane	1.558	64	29857	4.506	ug/l	93
7) Trichlorofluoromethane	1.725	101	67248	5.181	ug/l	100
8) Diethyl Ether	1.918	74	25304	5.251	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.082	101	39608	5.128	ug/l	99
10) Methyl Iodide	2.195	142	31463	4.278	ug/l	95
11) Tert butyl alcohol	2.571	59	40994	27.195	ug/l	97
12) 1,1-Dichloroethene	2.082	96	38859	5.230	ug/l	96
13) Acrolein	2.015	56	6095	23.302	ug/l	98
14) Allyl chloride	2.355	41	70683	5.326	ug/l	96
15) Acrylonitrile	2.677	53	128729	26.639	ug/l	99
16) Acetone	2.121	43	140190	26.199	ug/l	98
17) Carbon Disulfide	2.253	76	121350	5.340	ug/l	99
18) Methyl Acetate	2.381	43	54053	5.115	ug/l	97
19) Methyl tert-butyl Ether	2.712	73	125944	5.319	ug/l	96
20) Methylene Chloride	2.455	84	54859	5.252	ug/l	96
21) trans-1,2-Dichloroethene	2.703	96	41151	5.202	ug/l	98
22) Diisopropyl ether	3.217	45	126181	4.969	ug/l #	64
23) Vinyl Acetate	3.191	43	570043	25.661	ug/l	99
24) 1,1-Dichloroethane	3.117	63	81764	5.265	ug/l	96
25) 2-Butanone	3.879	43	140360	25.002	ug/l	99
26) 2,2-Dichloropropane	3.812	77	68656	5.006	ug/l	99
27) cis-1,2-Dichloroethene	3.825	96	40984	4.698	ug/l	88
28) Bromochloromethane	4.153	49	25874	3.774	ug/l	97
29) Tetrahydrofuran	4.243	42	86190	24.110	ug/l	94
30) Chloroform	4.281	83	86066	5.308	ug/l	99
31) Cyclohexane	4.580	56	69326	5.450	ug/l #	94
32) 1,1,1-Trichloroethane	4.513	97	74539	5.310	ug/l	95
36) 1,1-Dichloropropene	4.744	75	44786	4.379	ug/l	99
37) Ethyl Acetate	3.995	43	60285	4.805	ug/l #	73
38) Carbon Tetrachloride	4.732	117	61498	4.992	ug/l	96
39) Methylcyclohexane	6.047	83	56805	4.633	ug/l	92
40) Benzene	5.014	78	163948	4.959	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.188	41	17959	4.995	ug/l	#	86
42) 1,2-Dichloroethane	5.047	62	57857	4.994	ug/l		96
43) Isopropyl Acetate	5.204	43	77935	4.509	ug/l	#	93
44) Trichloroethene	5.838	130	38395	5.033	ug/l		89
45) 1,2-Dichloropropane	6.098	63	39327	4.786	ug/l		100
46) Dibromomethane	6.233	93	31863	5.066	ug/l		98
47) Bromodichloromethane	6.429	83	64039	4.925	ug/l		95
48) Methyl methacrylate	6.313	41	29705	3.757	ug/l		93
49) 1,4-Dioxane	6.307	88	8999	72.413	ug/l	#	79
51) 4-Methyl-2-Pentanone	7.153	43	255889	23.155	ug/l		99
52) Toluene	7.313	92	94414	4.925	ug/l		99
53) t-1,3-Dichloropropene	7.583	75	53878	4.755	ug/l		94
54) cis-1,3-Dichloropropene	6.957	75	58800	4.700	ug/l		98
55) 1,1,2-Trichloroethane	7.764	97	43788	5.094	ug/l		99
56) Ethyl methacrylate	7.722	69	42598	4.173	ug/l		97
57) 1,3-Dichloropropane	7.937	76	63818	4.705	ug/l		99
58) 2-Chloroethyl Vinyl ether	6.818	63	81984	23.077	ug/l		100
59) 2-Hexanone	8.069	43	179185	22.071	ug/l		88
60) Dibromochloromethane	8.169	129	49953	5.100	ug/l		96
61) 1,2-Dibromoethane	8.278	107	44729	5.088	ug/l		98
64) Tetrachloroethene	7.899	164	34795	5.143	ug/l		98
65) Chlorobenzene	8.805	112	114424	5.086	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.899	131	40690	5.005	ug/l		95
67) Ethyl Benzene	8.940	91	157790	4.633	ug/l		97
68) m/p-Xylenes	9.066	106	115177	8.762	ug/l		98
69) o-Xylene	9.471	106	51281	4.406	ug/l		100
70) Styrene	9.490	104	83873	4.836	ug/l		96
71) Bromoform	9.657	173	31133	4.903	ug/l	#	97
73) Isopropylbenzene	9.857	105	140251	4.545	ug/l		99
74) N-amyl acetate	9.731	43	54436	4.422	ug/l		98
75) 1,1,2,2-Tetrachloroethane	10.165	83	71656	5.299	ug/l		99
76) 1,2,3-Trichloropropane	10.201	75	51079m	5.273	ug/l		
77) Bromobenzene	10.146	156	39428	4.924	ug/l		95
78) n-propylbenzene	10.281	91	168794	4.492	ug/l		99
79) 2-Chlorotoluene	10.349	91	110002	4.892	ug/l		99
80) 1,3,5-Trimethylbenzene	10.468	105	114749	4.474	ug/l		98
81) trans-1,4-Dichloro-2-b...	9.934	75	18154	4.499	ug/l		90
82) 4-Chlorotoluene	10.468	91	122429	4.695	ug/l		99
83) tert-Butylbenzene	10.789	119	117310	4.586	ug/l		99
84) 1,2,4-Trimethylbenzene	10.841	105	108157	4.343	ug/l		96
85) sec-Butylbenzene	11.014	105	153526	4.525	ug/l		99
86) p-Isopropyltoluene	11.169	119	127377	4.511	ug/l		98
87) 1,3-Dichlorobenzene	11.111	146	82673	5.102	ug/l		98
88) 1,4-Dichlorobenzene	11.198	146	91001	5.082	ug/l		94
89) n-Butylbenzene	11.583	91	119822	4.443	ug/l		96
90) Hexachloroethane	11.818	117	35762	5.143	ug/l		95
91) 1,2-Dichlorobenzene	11.570	146	76477	5.052	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.358	75	14163	5.211	ug/l		92
93) 1,2,4-Trichlorobenzene	13.191	180	39775	4.583	ug/l		100
94) Hexachlorobutadiene	13.368	225	22549	5.001	ug/l		98
95) Naphthalene	13.429	128	113395	4.062	ug/l		99
96) 1,2,3-Trichlorobenzene	13.670	180	38315	4.317	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

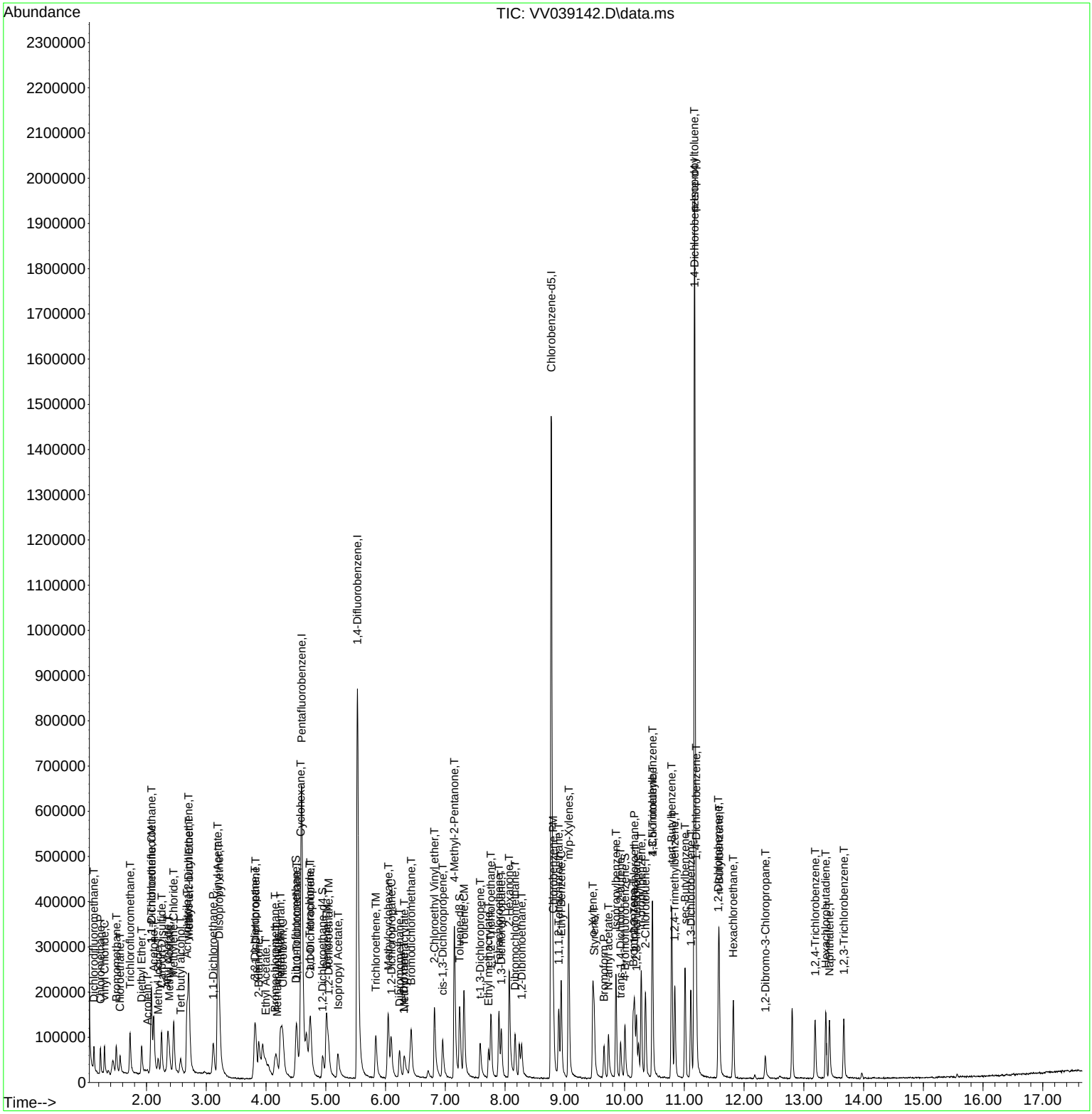
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

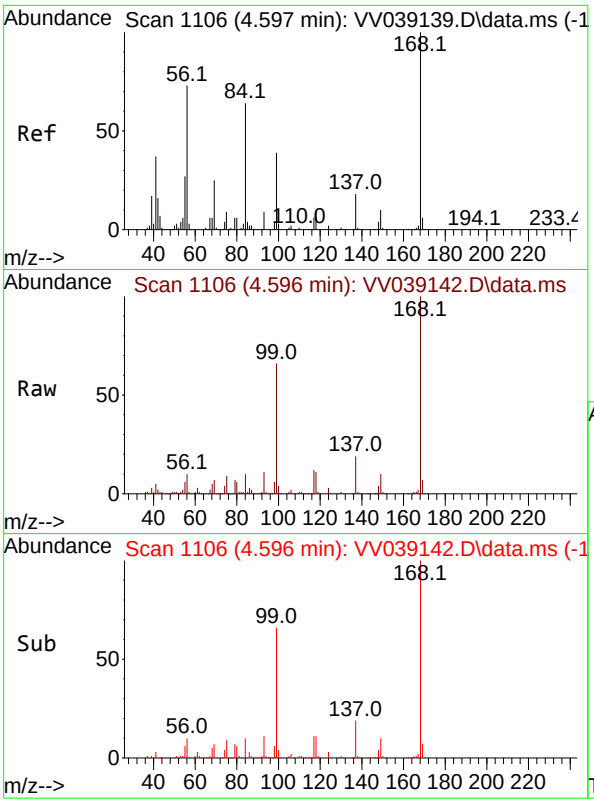
Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

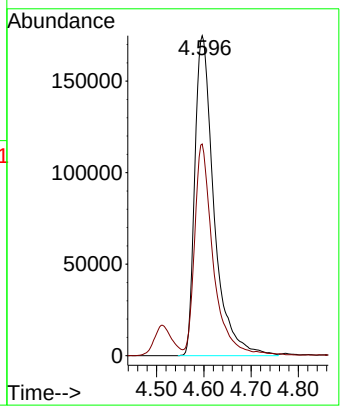




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 1
Delta R.T. -0.001 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:168 Resp: 49279

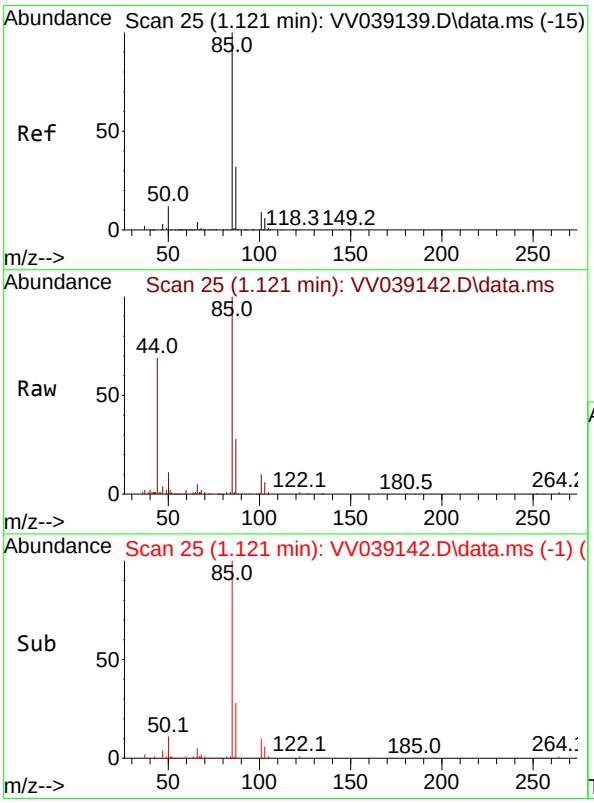
Ion	Ratio	Lower	Upper
168	100		
99	65.6	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

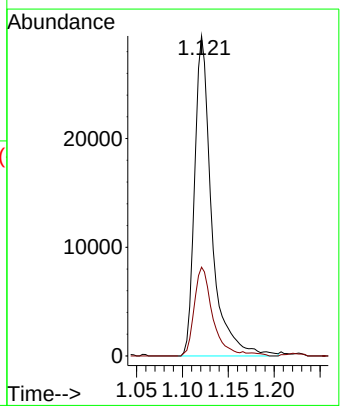
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

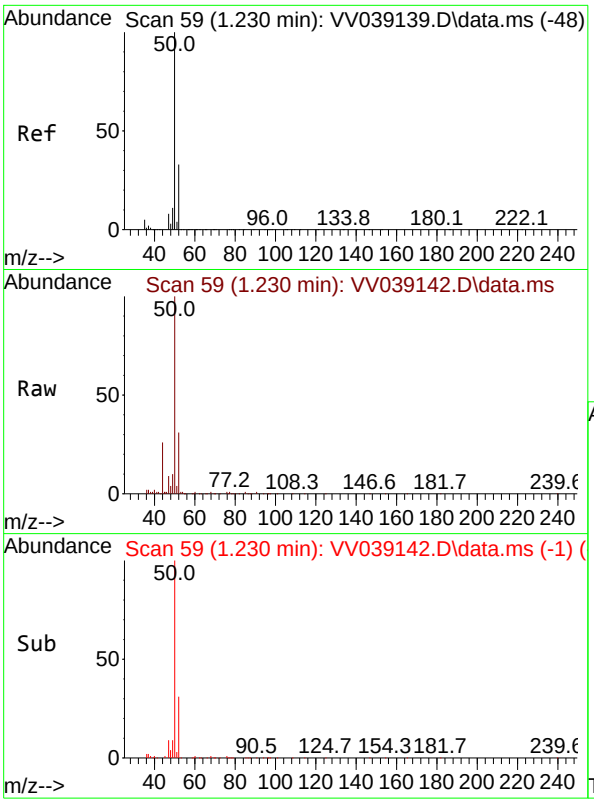


#2
Dichlorodifluoromethane
Concen: 4.875 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 85 Resp: 38031

Ion	Ratio	Lower	Upper
85	100		
87	27.7	16.0	47.9

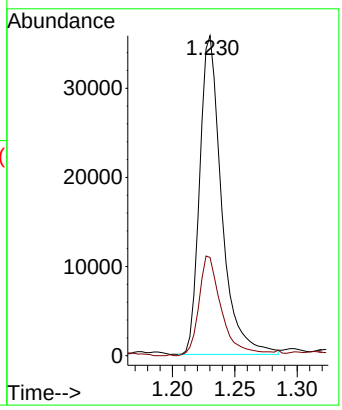




#3
Chloromethane
Concen: 5.234 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 50 Resp: 4383

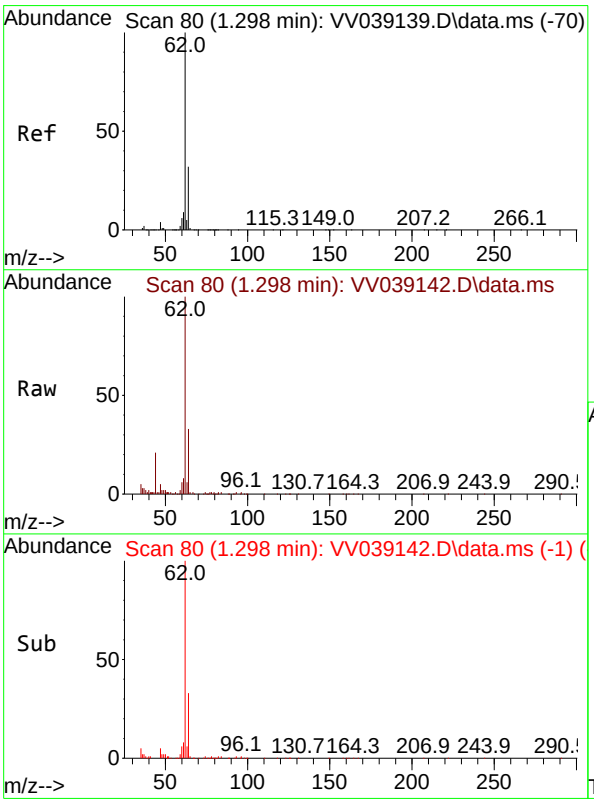
Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.0	39.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

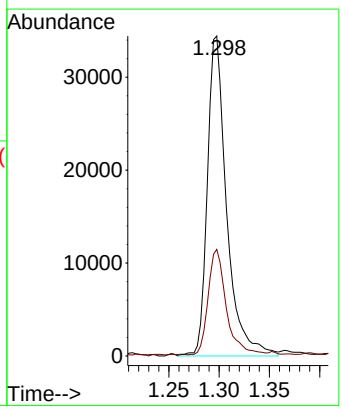
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

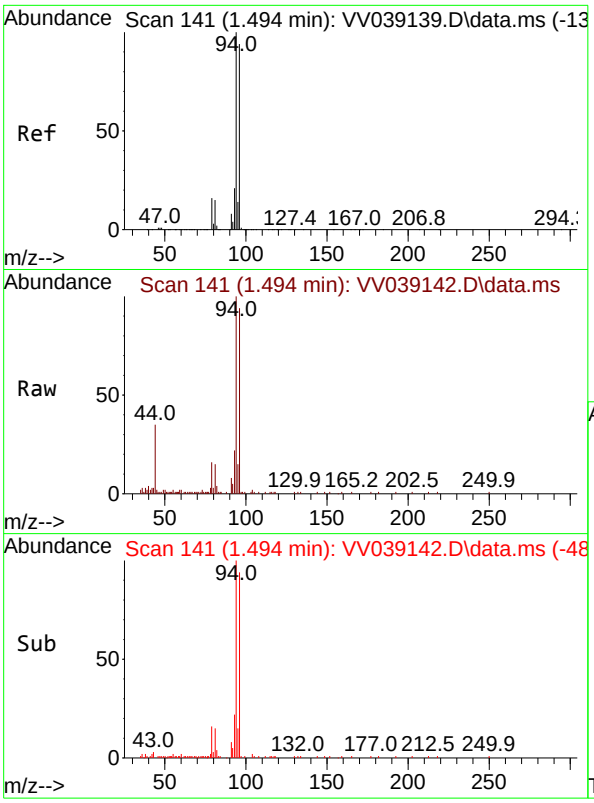


#4
Vinyl Chloride
Concen: 5.124 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 45941

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.6	38.4

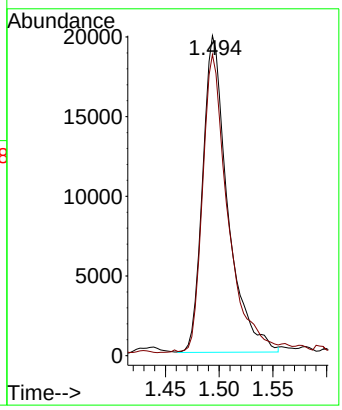




#5
Bromomethane
Concen: 5.715 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 94 Resp: 3230

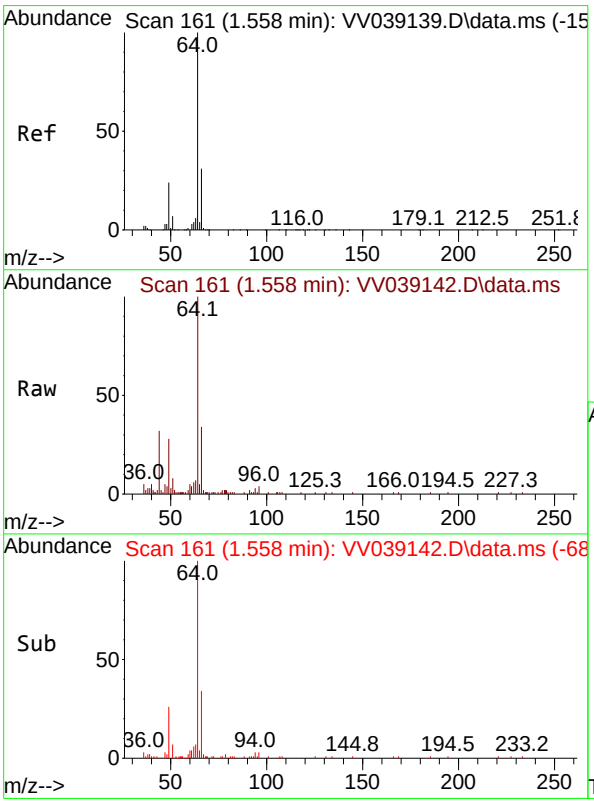
Ion	Ratio	Lower	Upper
94	100		
96	93.8	74.9	112.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

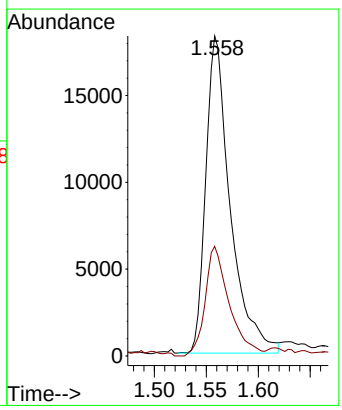
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

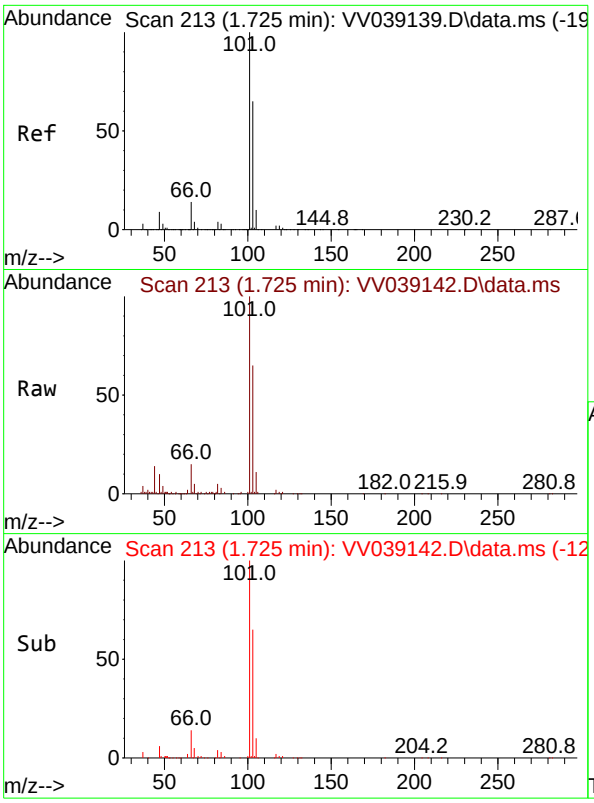


#6
Chloroethane
Concen: 4.506 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 64 Resp: 29857

Ion	Ratio	Lower	Upper
64	100		
66	34.6	24.6	36.8

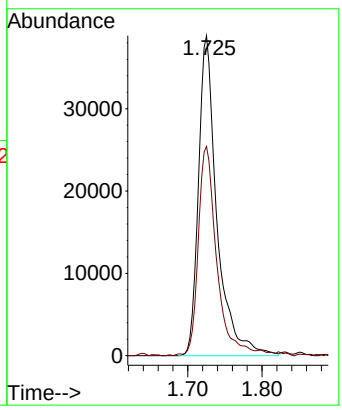




#7
Trichlorofluoromethane
Concen: 5.181 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:101 Resp: 6724

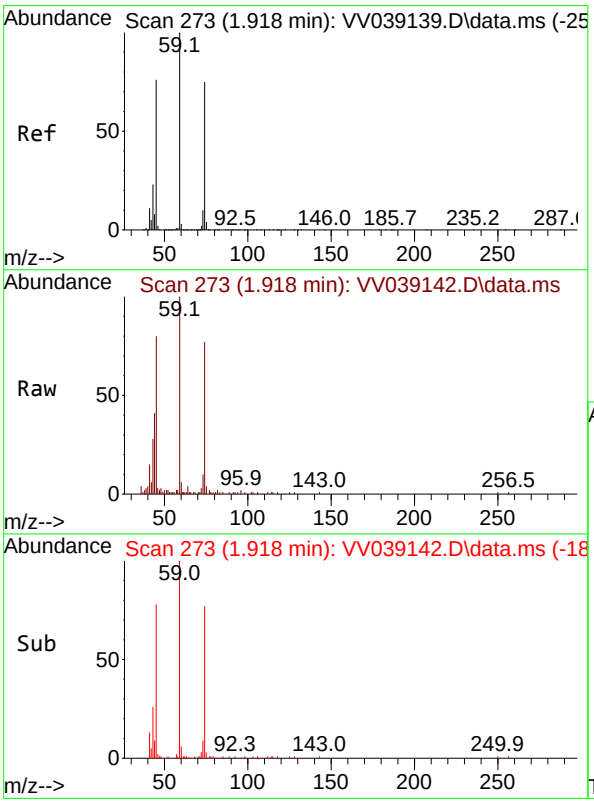
Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.0	78.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

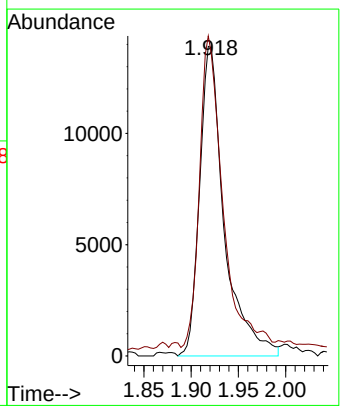
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

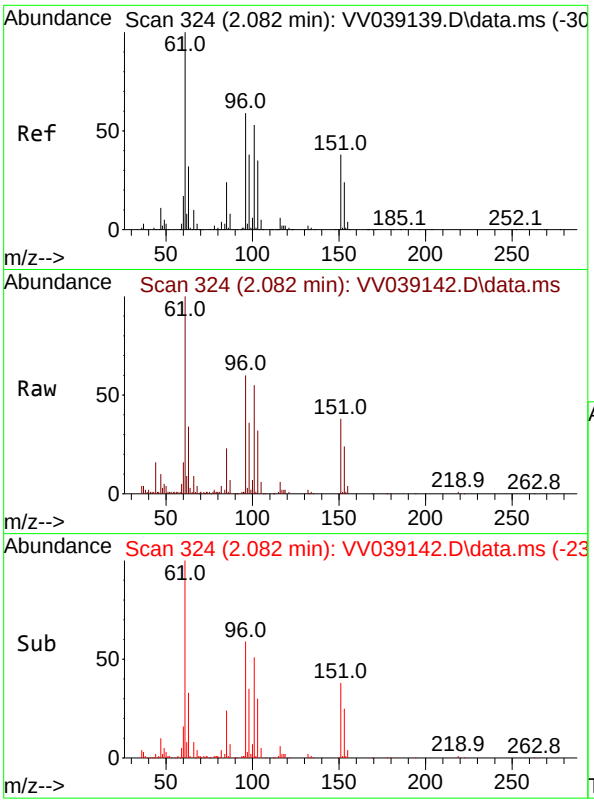


#8
Diethyl Ether
Concen: 5.251 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 74 Resp: 25304

Ion	Ratio	Lower	Upper
74	100		
45	94.7	49.6	148.8

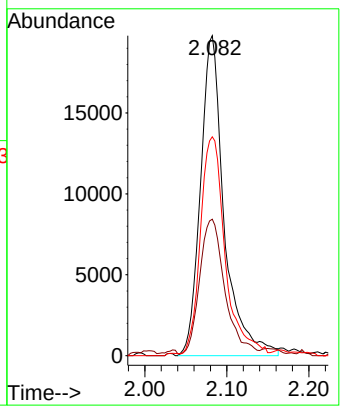




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.128 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:101 Resp: 3960

Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.2	54.2
151	69.9	56.3	84.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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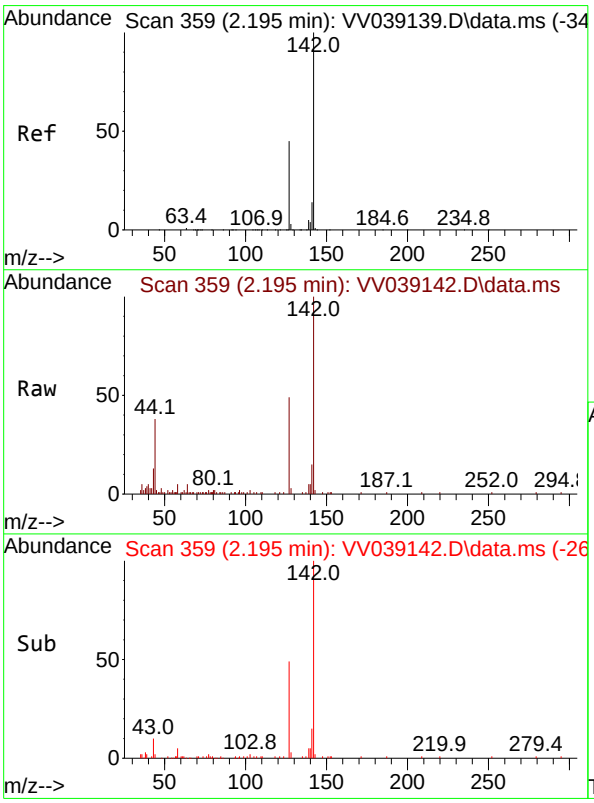
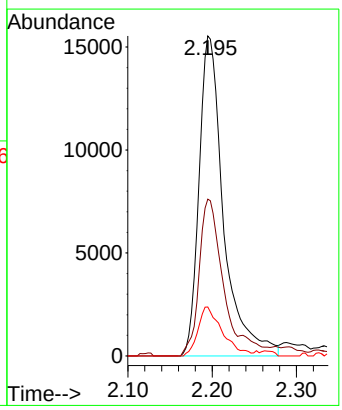
Supervised By :Semsettin Yesilyurt 09/26/2025

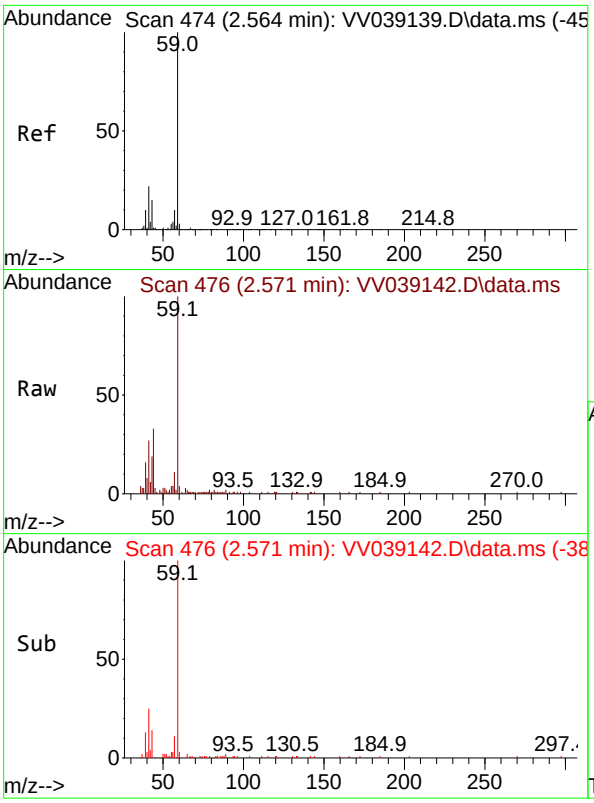


#10
Methyl Iodide
Concen: 4.278 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:142 Resp: 31463

Ion	Ratio	Lower	Upper
142	100		
127	49.4	36.3	54.5
141	15.2	11.2	16.8

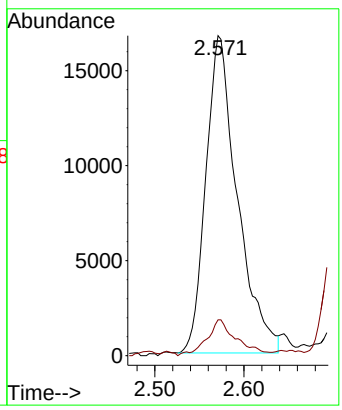




#11
Tert butyl alcohol
Concen: 27.195 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 59 Resp: 4099

Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.8	11.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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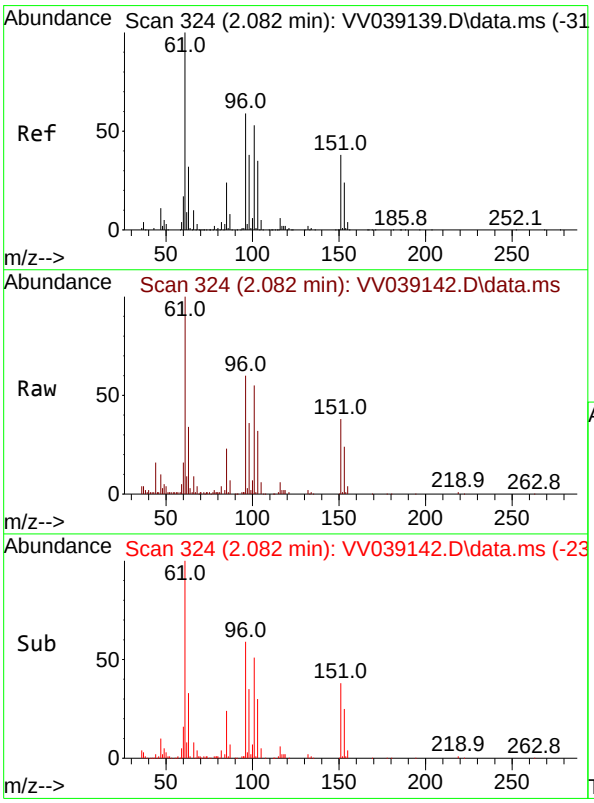
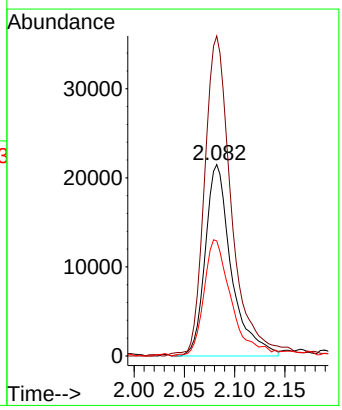
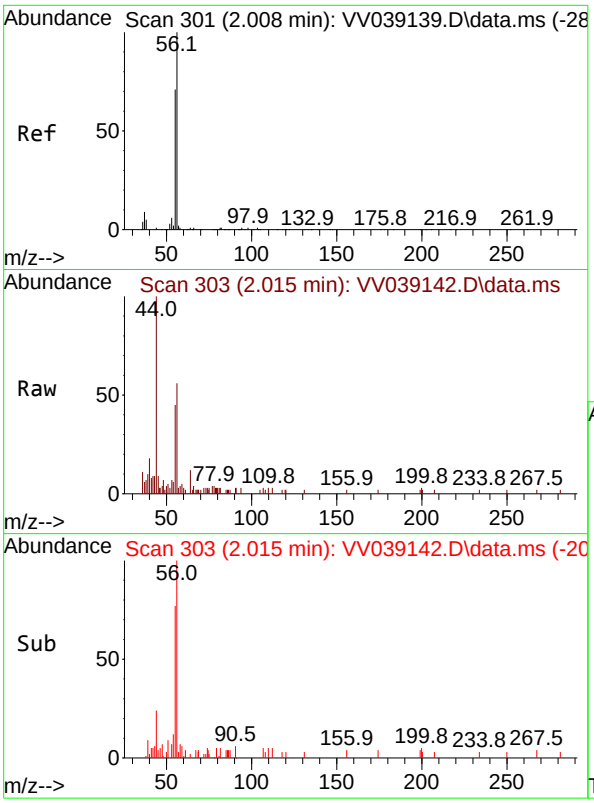


#12
1,1-Dichloroethene
Concen: 5.230 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 38859

Ion	Ratio	Lower	Upper
96	100		
61	165.4	136.0	204.0
98	59.2	51.0	76.6

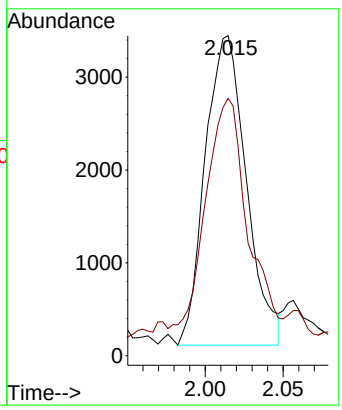




#13
Acrolein
Concen: 23.302 ug/l
RT: 2.015 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 56 Resp: 609

Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.2	84.4



Instrument :
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ClientSampleId :
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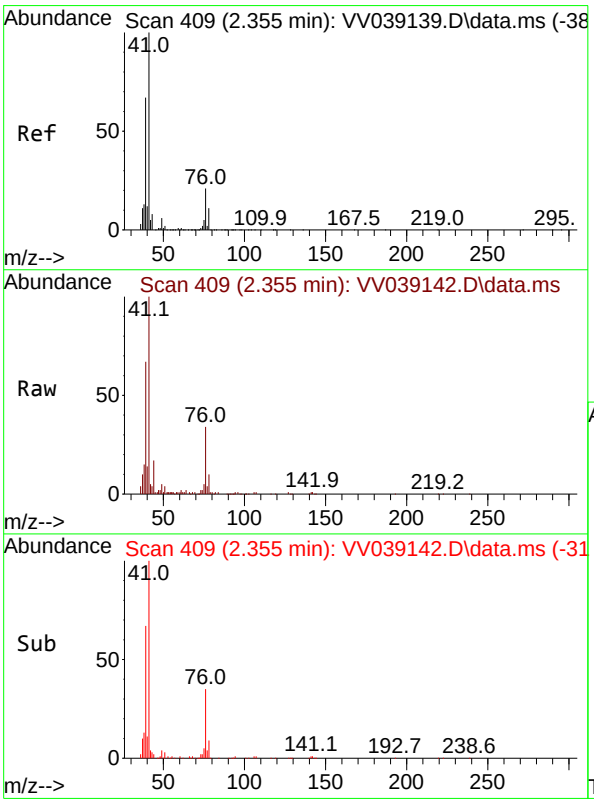
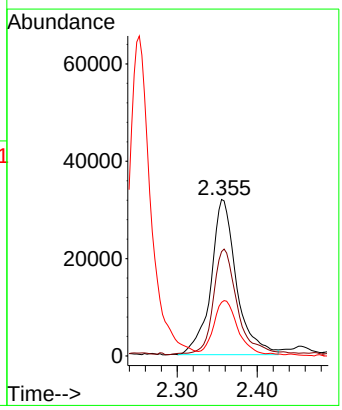
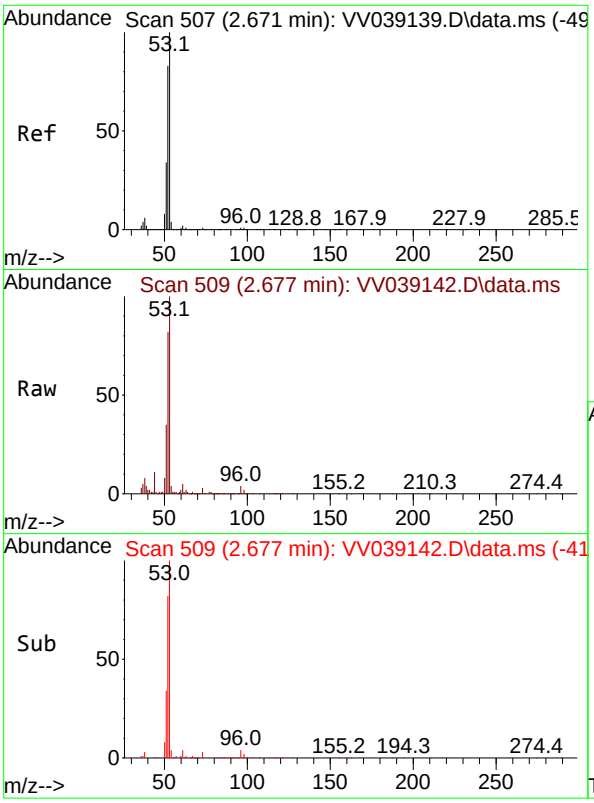


#14
Allyl chloride
Concen: 5.326 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 70683

Ion	Ratio	Lower	Upper
41	100		
39	65.2	51.0	76.6
76	31.4	28.2	42.4

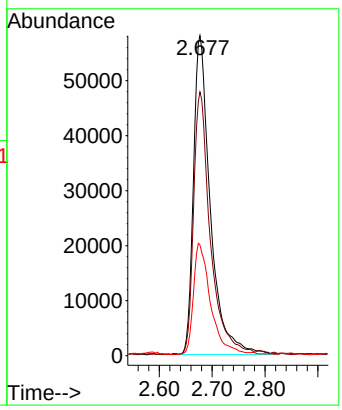




#15
Acrylonitrile
Concen: 26.639 ug/l
RT: 2.677 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 53 Resp: 12872

Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.1	99.1
51	35.5	28.5	42.7



Instrument :
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ClientSampleId :
VSTDICC005

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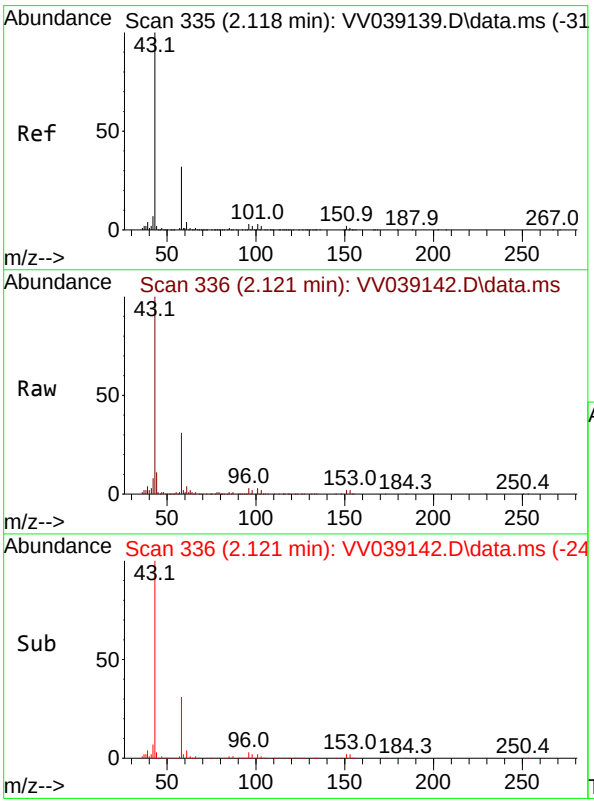
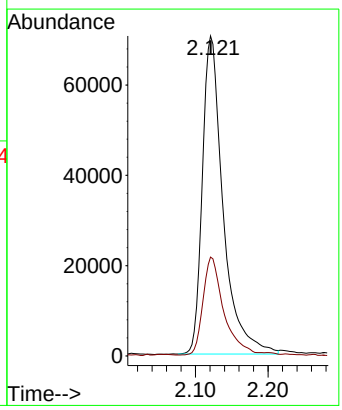
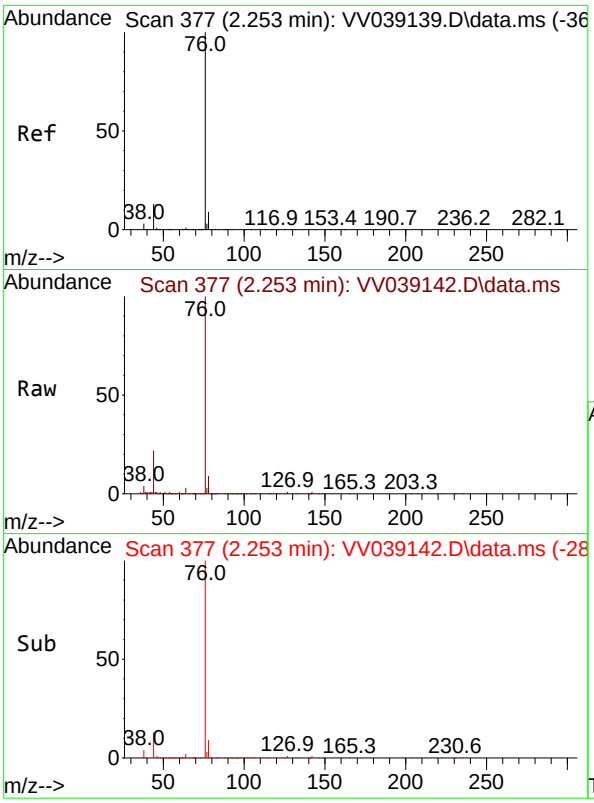


#16
Acetone
Concen: 26.199 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 140190

Ion	Ratio	Lower	Upper
43	100		
58	30.8	25.8	38.6





#17
Carbon Disulfide
Concen: 5.340 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 76 Resp: 12135

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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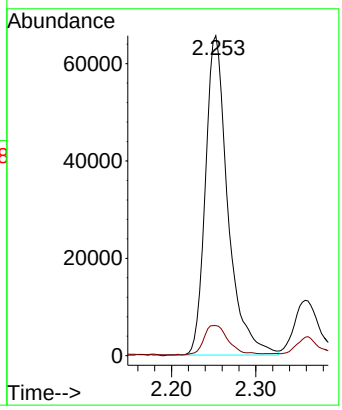
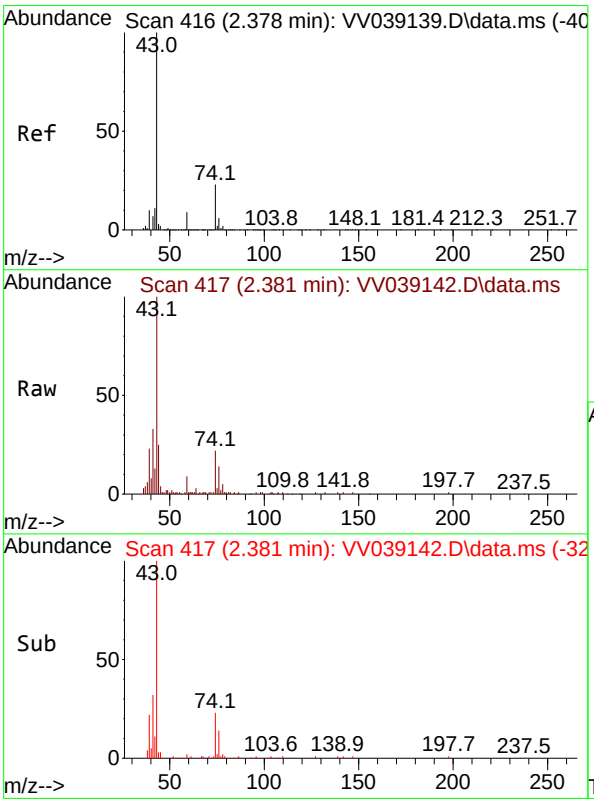
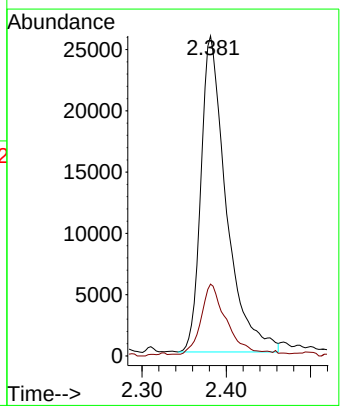


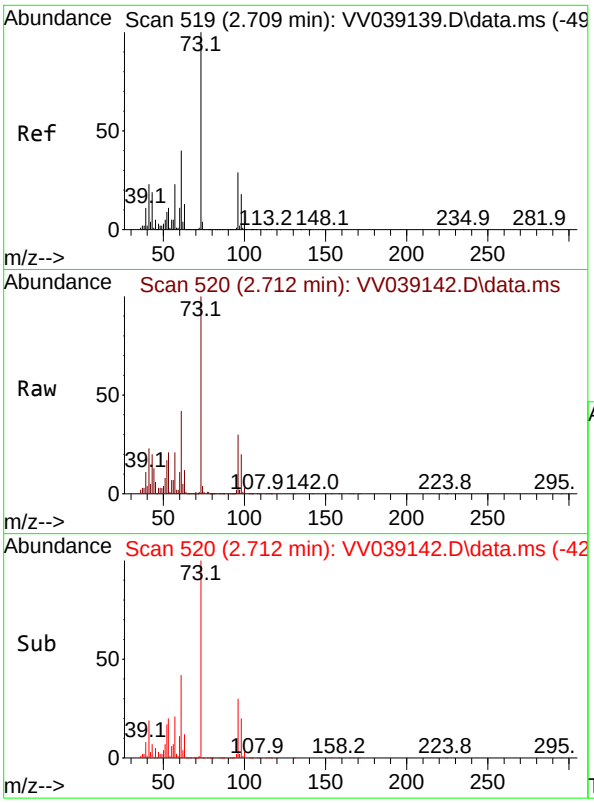


#18
Methyl Acetate
Concen: 5.115 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 54053

Ion	Ratio	Lower	Upper
43	100		
74	21.7	18.6	27.8

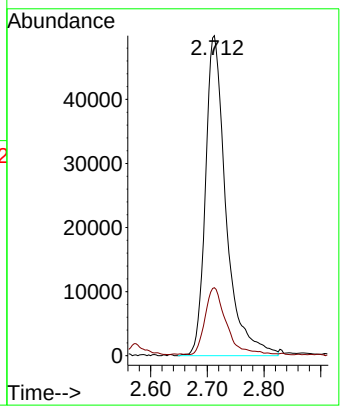




#19
Methyl tert-butyl Ether
Concen: 5.319 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 73 Resp: 12594

Ion	Ratio	Lower	Upper
73	100		
57	20.8	18.2	27.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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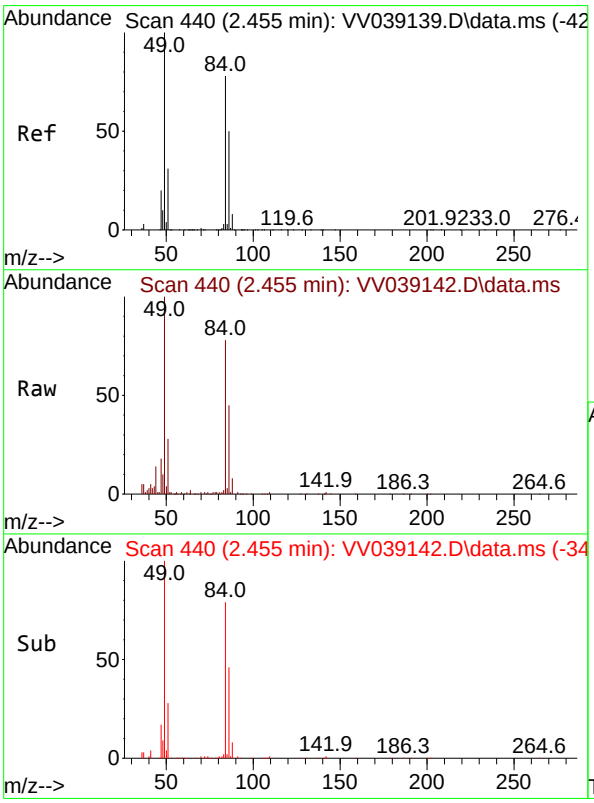
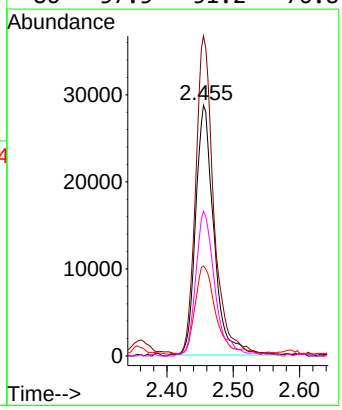
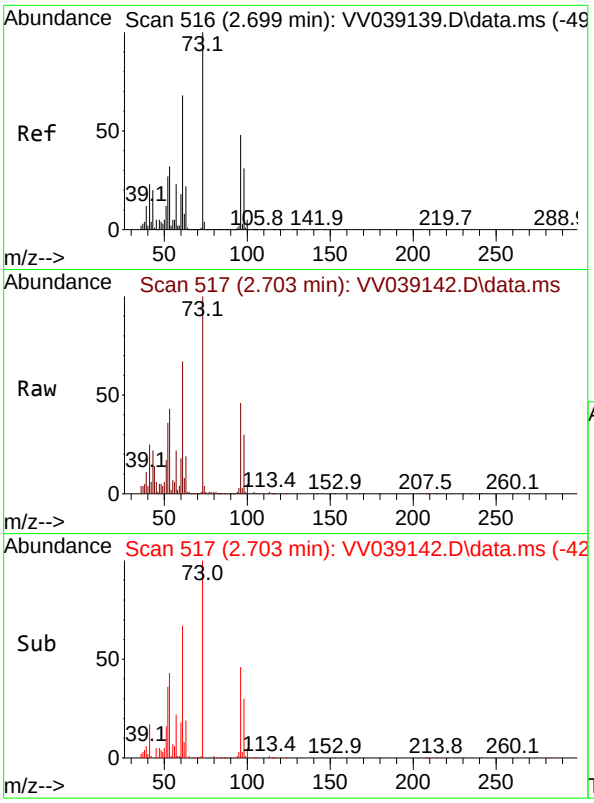


#20
Methylene Chloride
Concen: 5.252 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 84 Resp: 54859

Ion	Ratio	Lower	Upper
84	100		
49	127.4	102.8	154.2
51	35.2	31.9	47.9
86	57.5	51.2	76.8

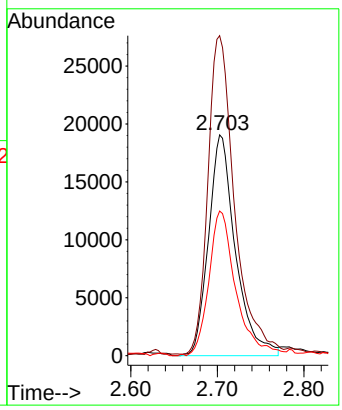




#21
trans-1,2-Dichloroethene
Concen: 5.202 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 4115

Ion	Ratio	Lower	Upper
96	100		
61	144.1	112.8	169.2
98	65.5	51.1	76.7



Instrument :
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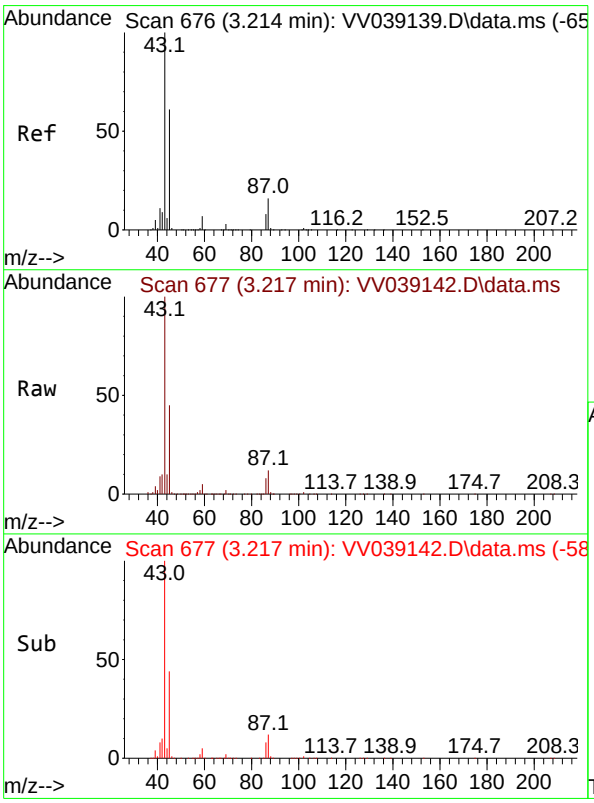
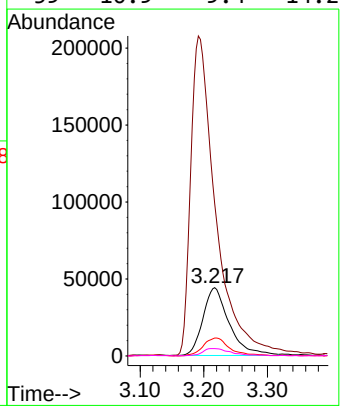
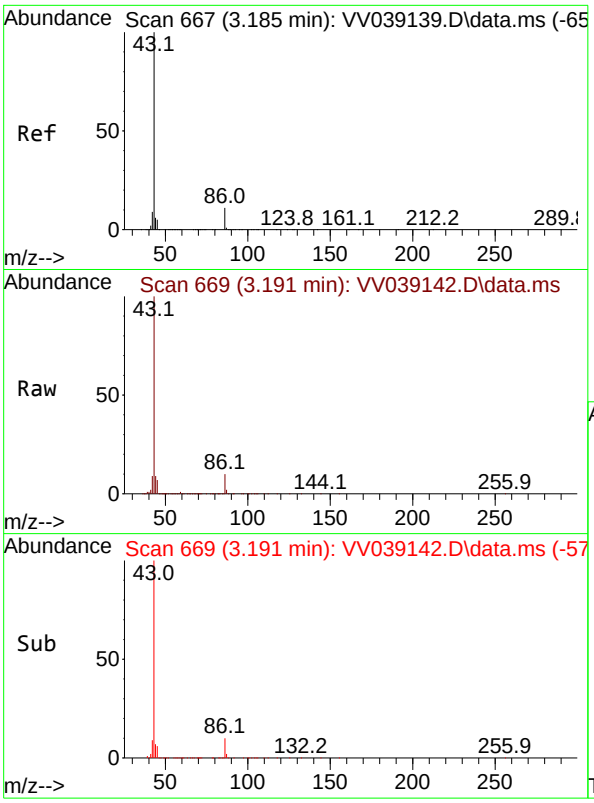


#22
Diisopropyl ether
Concen: 4.969 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 45 Resp: 126181

Ion	Ratio	Lower	Upper
45	100		
43	223.1	130.9	196.3#
87	26.4	21.1	31.7
59	10.9	9.4	14.2





#23
Vinyl Acetate
Concen: 25.661 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 57004

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.4	12.6

Instrument :
MSVOA_V
ClientSampleId :
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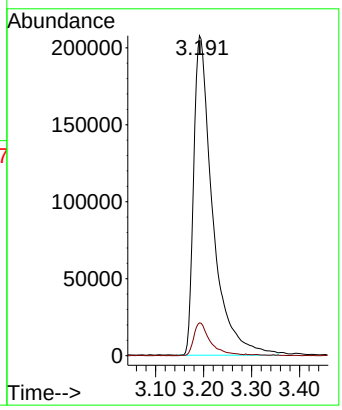
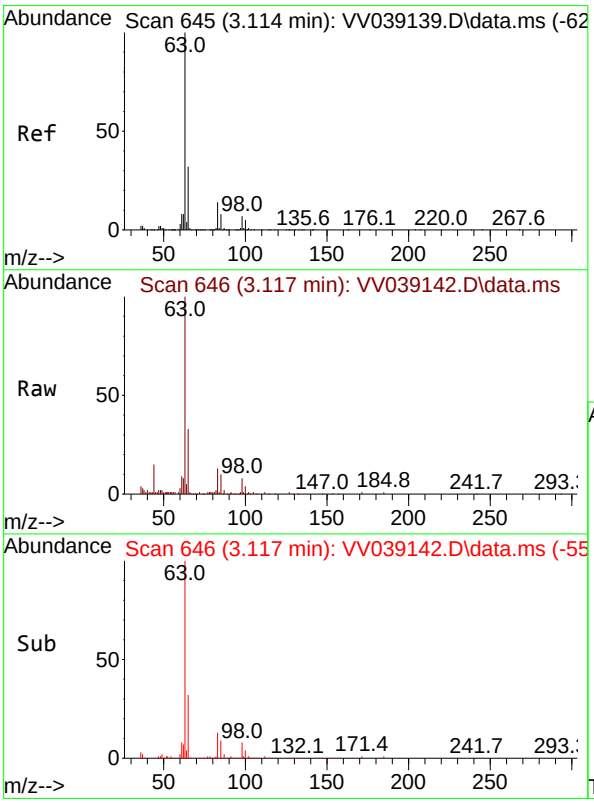
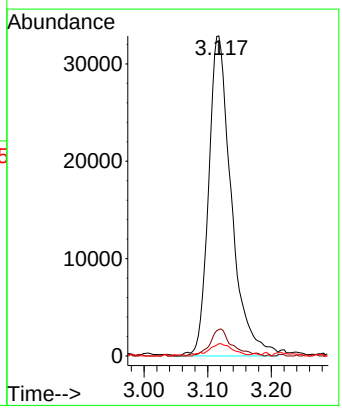


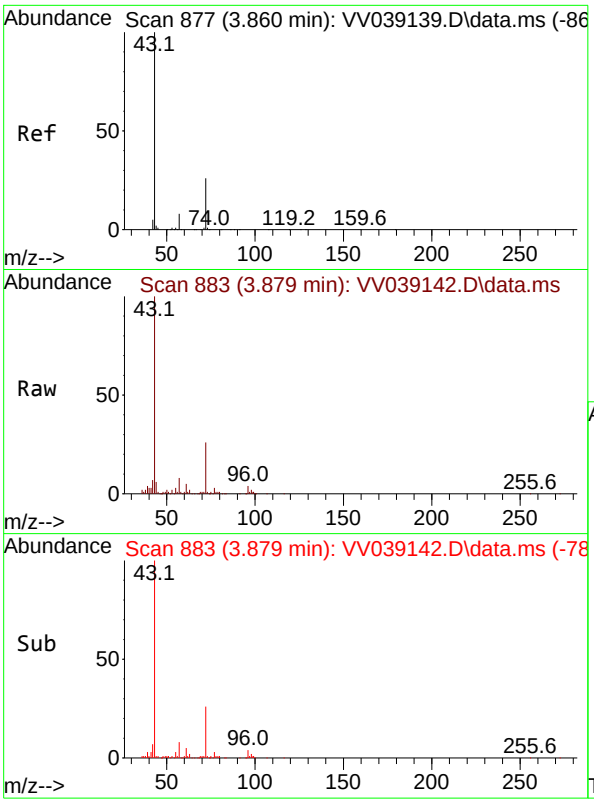


#24
1,1-Dichloroethane
Concen: 5.265 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 81764

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.4	10.2
100	3.5	2.2	6.6

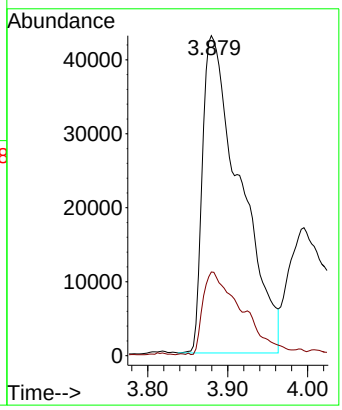




#25
2-Butanone
Concen: 25.002 ug/l
RT: 3.879 min Scan# 8
Delta R.T. 0.019 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 14036

Ion	Ratio	Lower	Upper
43	100		
72	25.9	21.0	31.6



Instrument :
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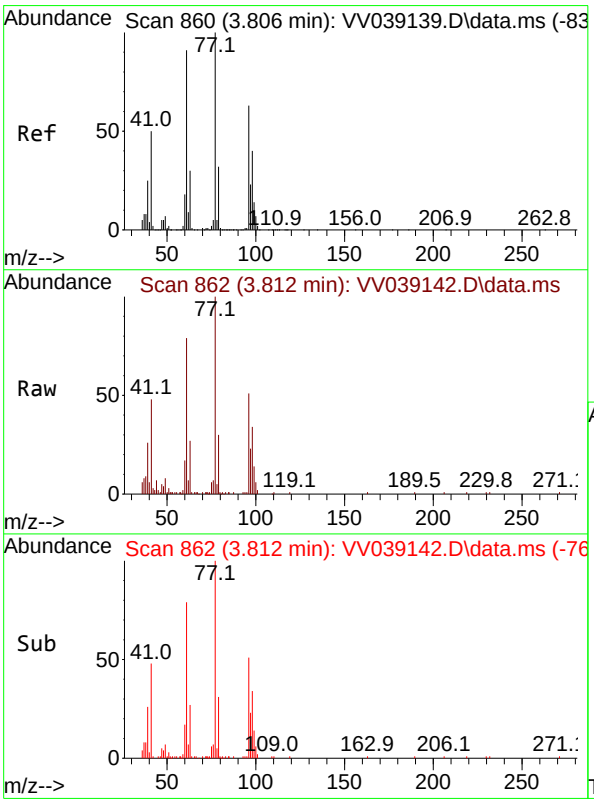
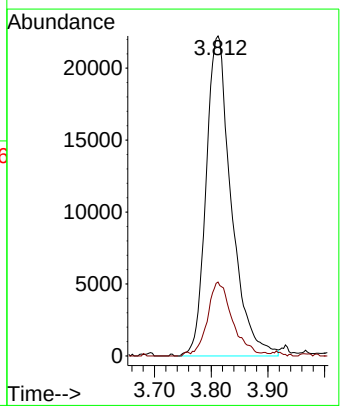
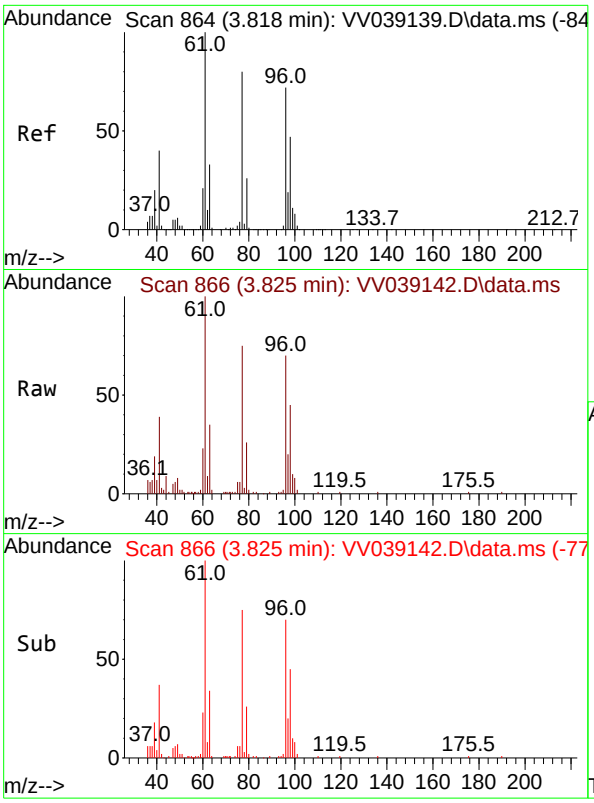


#26
2,2-Dichloropropane
Concen: 5.006 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 77 Resp: 68656

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.6	34.7

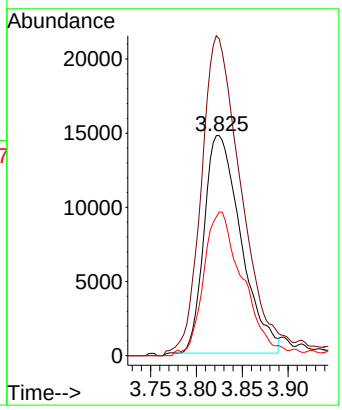




#27
cis-1,2-Dichloroethene
Concen: 4.698 ug/l
RT: 3.825 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 4098

Ion	Ratio	Lower	Upper
96	100		
61	159.9	0.0	286.4
98	70.2	0.0	126.6



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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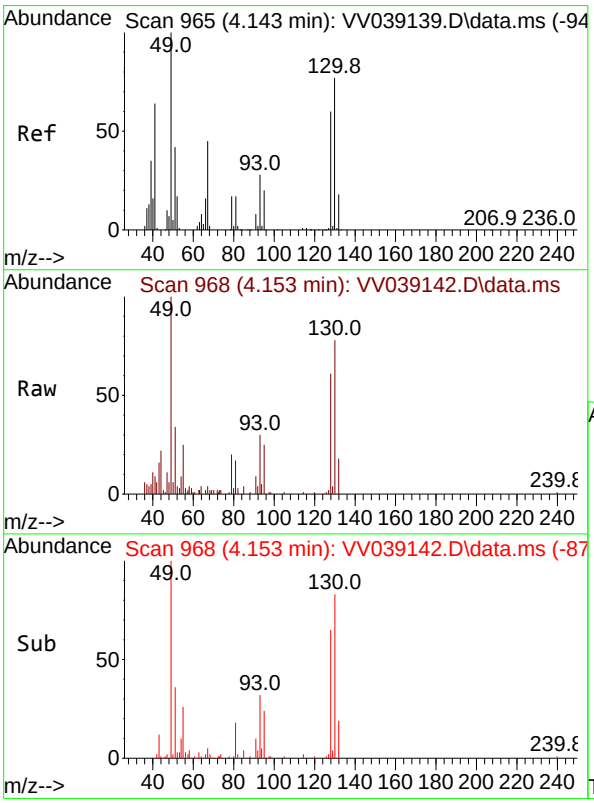
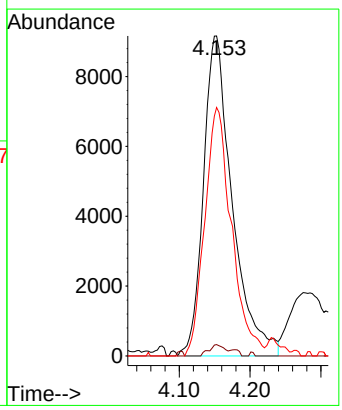
Supervised By :Semsettin Yesilyurt 09/26/2025

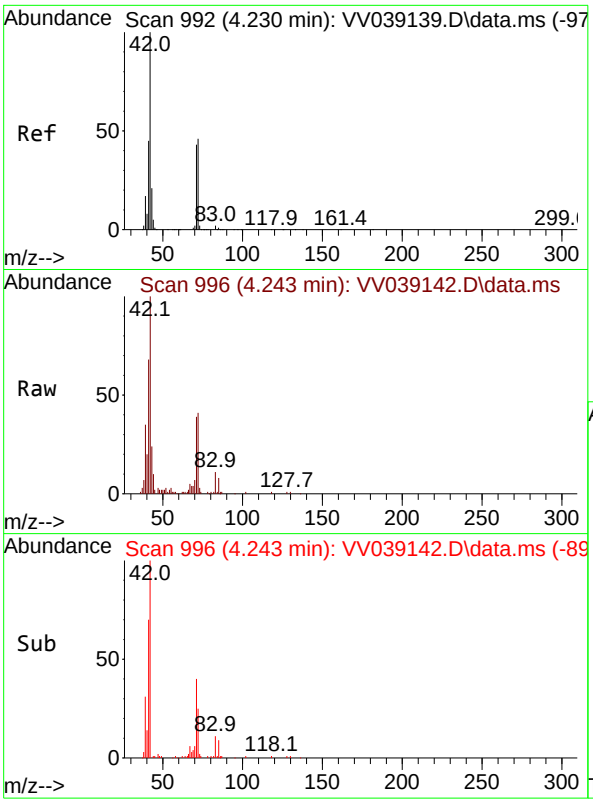


#28
Bromochloromethane
Concen: 3.774 ug/l
RT: 4.153 min Scan# 968
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 49 Resp: 25874

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	72.2	60.2	90.2

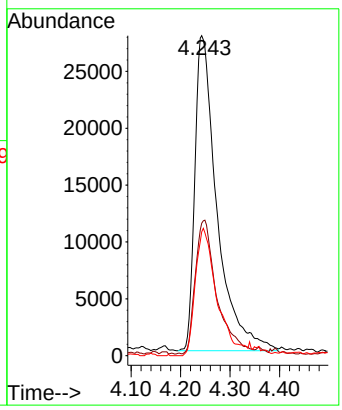




#29
Tetrahydrofuran
Concen: 24.110 ug/l
RT: 4.243 min Scan# 9
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 42 Resp: 8619

Ion	Ratio	Lower	Upper
42	100		
72	41.3	36.3	54.5
71	39.2	34.3	51.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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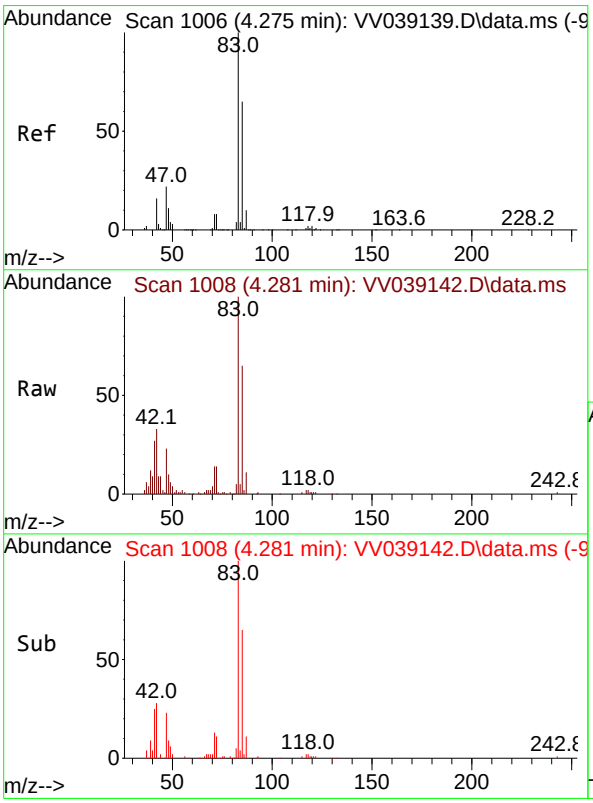
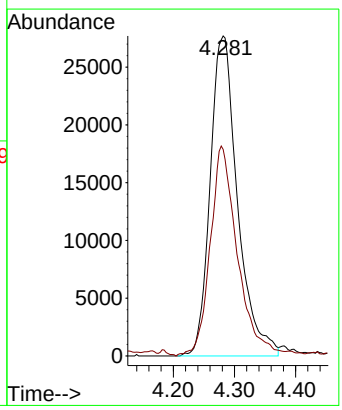
Supervised By :Semsettin Yesilyurt 09/26/2025

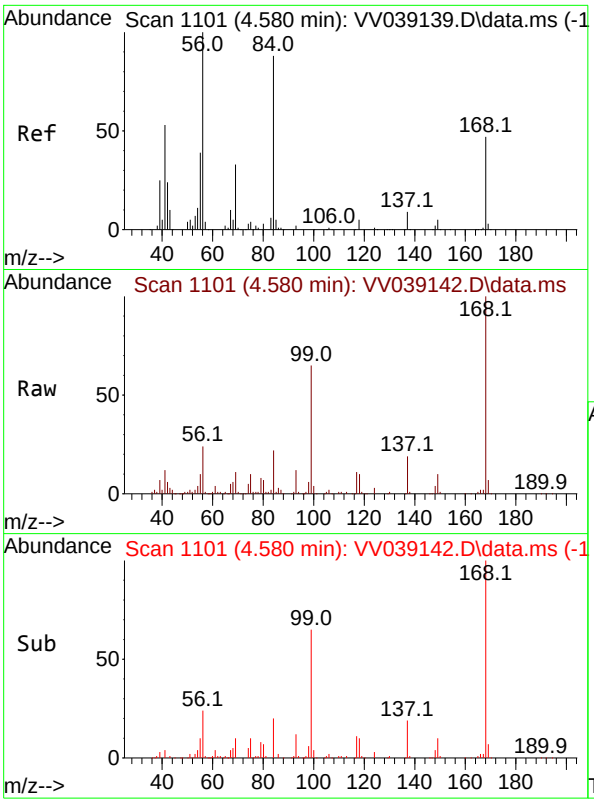


#30
Chloroform
Concen: 5.308 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 86066

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.1	78.1

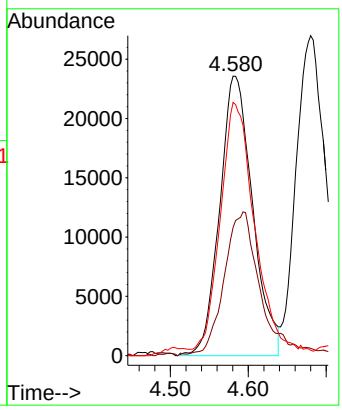




#31
Cyclohexane
Concen: 5.450 ug/l
RT: 4.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 56 Resp: 6932

Ion	Ratio	Lower	Upper
56	100		
69	45.8	26.2	39.2#
84	88.1	70.3	105.5



Instrument :
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ClientSampleId :
VSTDICC005

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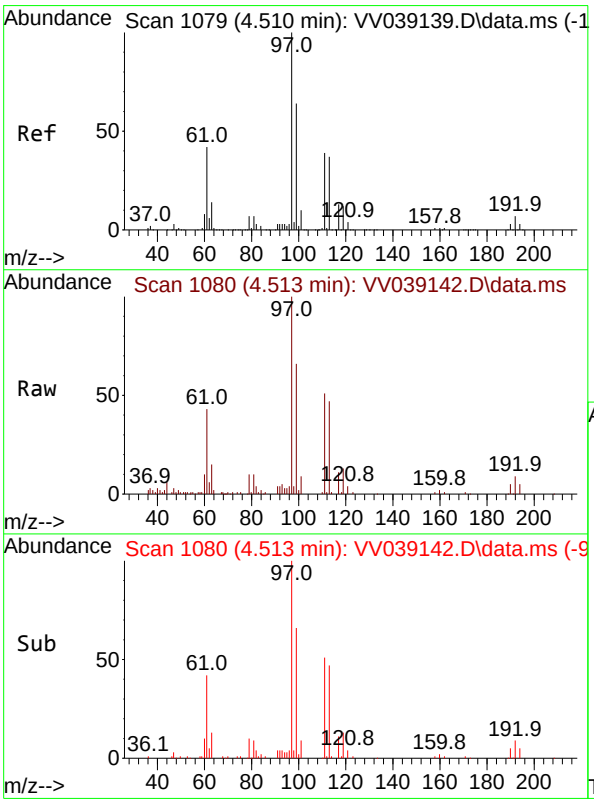
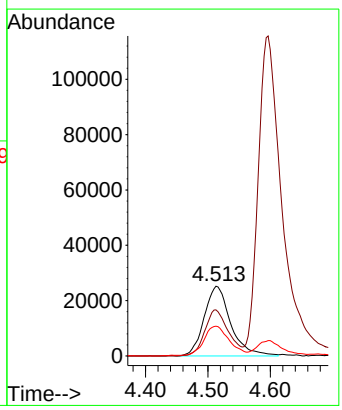
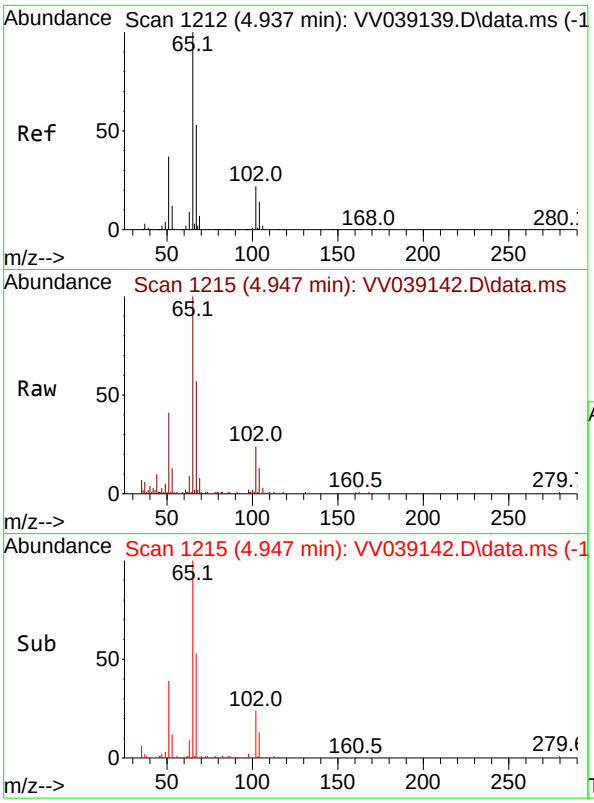


#32
1,1,1-Trichloroethane
Concen: 5.310 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 97 Resp: 74539

Ion	Ratio	Lower	Upper
97	100		
99	58.5	49.6	74.4
61	39.1	34.5	51.7

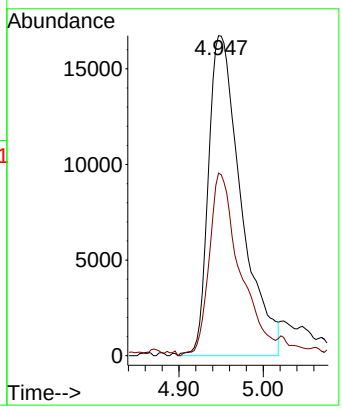




#33
1,2-Dichloroethane-d4
Concen: 6.347 ug/l
RT: 4.947 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 65 Resp: 4526

Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	107.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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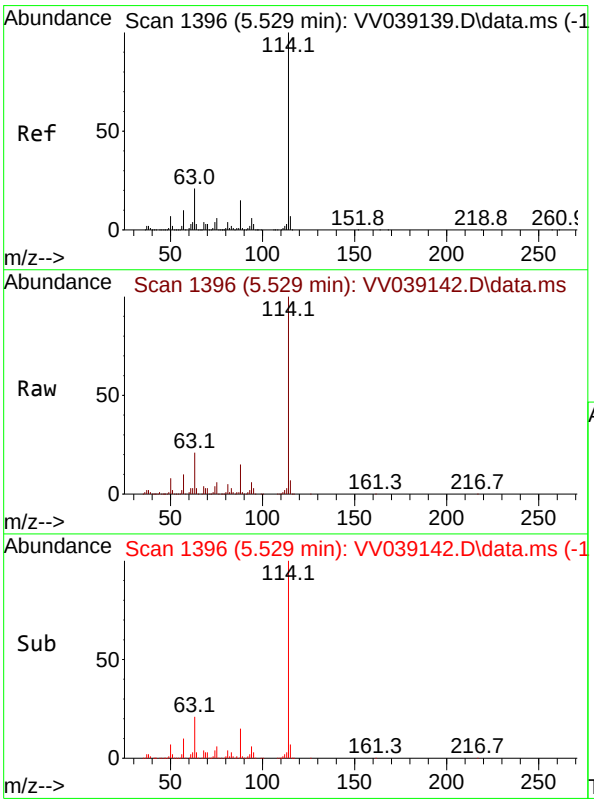
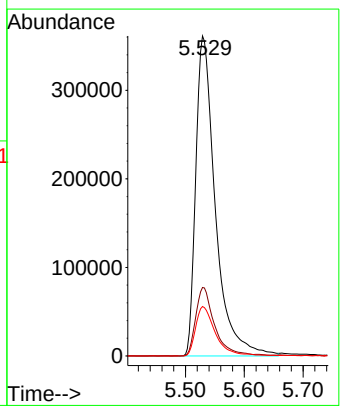
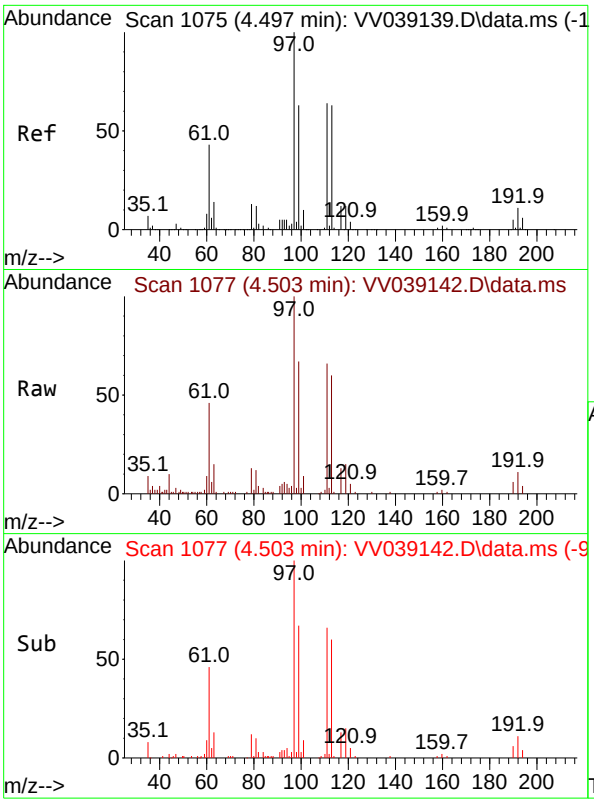


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:114 Resp: 835334

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	42.6
88	15.5	0.0	30.8

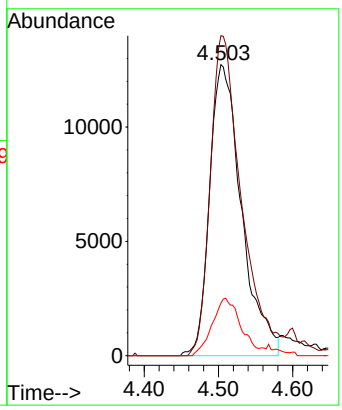




#35
Dibromofluoromethane
Concen: 5.653 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:113 Resp: 3795

Ion	Ratio	Lower	Upper
113	100		
111	107.6	82.4	123.6
192	17.6	13.8	20.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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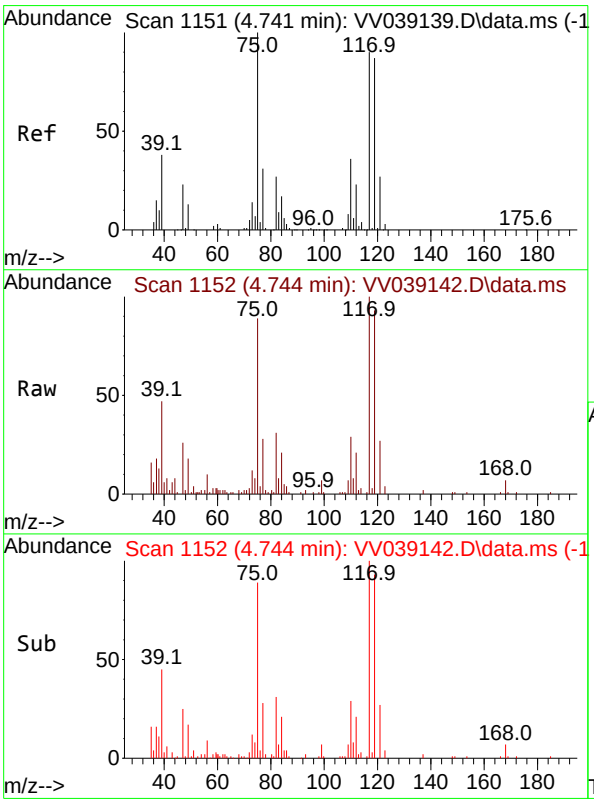
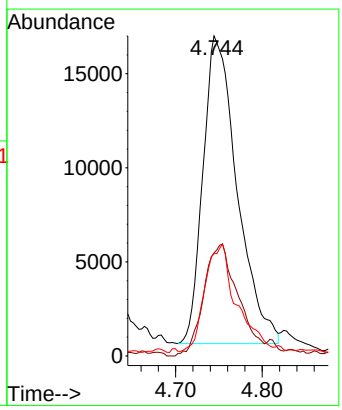
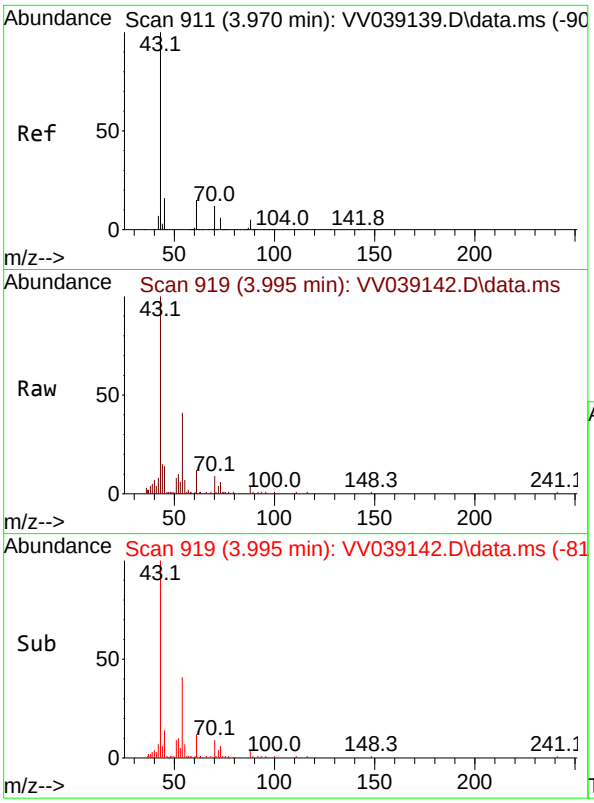


#36
1,1-Dichloropropene
Concen: 4.379 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 44786

Ion	Ratio	Lower	Upper
75	100		
110	36.8	18.1	54.1
77	32.0	24.8	37.2

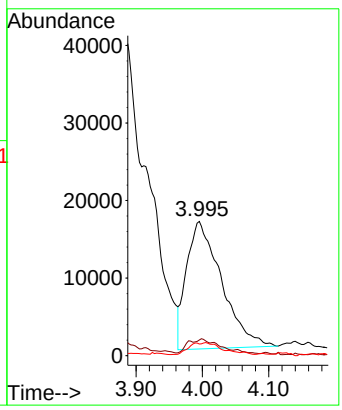




#37
Ethyl Acetate
Concen: 4.805 ug/l
RT: 3.995 min Scan# 9
Delta R.T. 0.025 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 6028

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	3.0	8.0	12.0#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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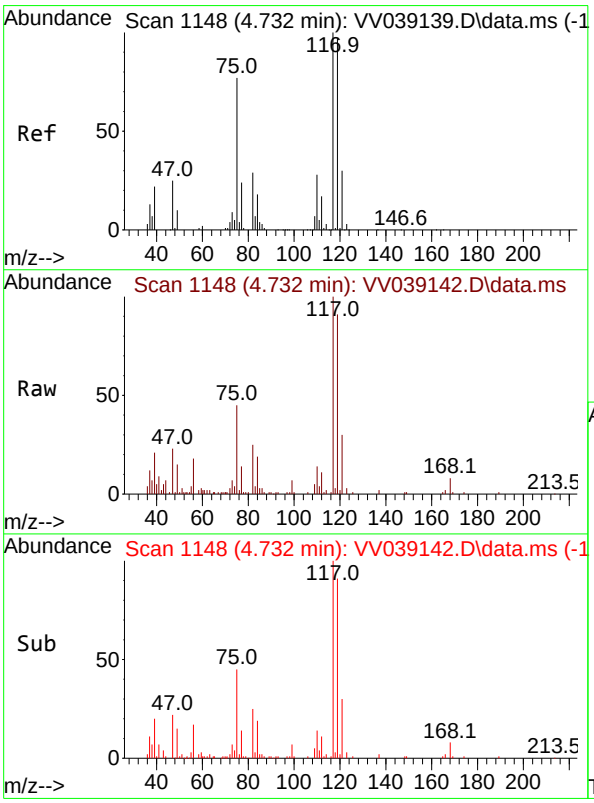
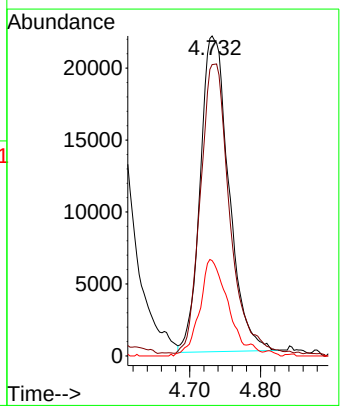
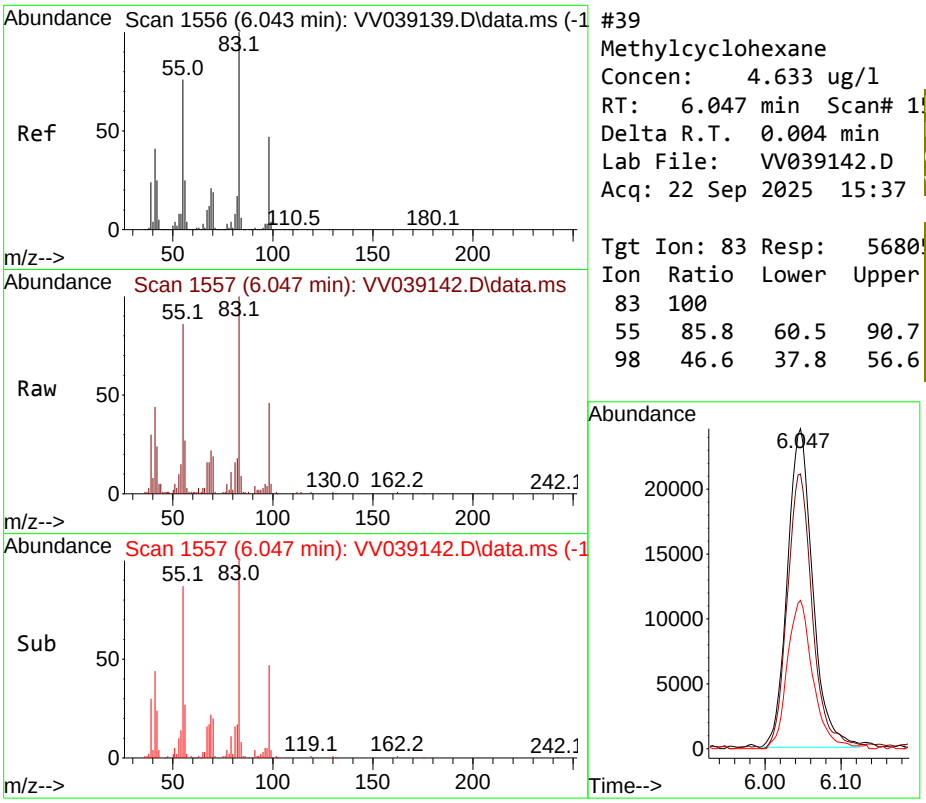


#38
Carbon Tetrachloride
Concen: 4.992 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 61498

Ion	Ratio	Lower	Upper
117	100		
119	91.1	77.2	115.8
121	29.8	24.2	36.2





#39
Methylcyclohexane
Concen: 4.633 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 5680

Ion	Ratio	Lower	Upper
83	100		
55	85.8	60.5	90.7
98	46.6	37.8	56.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
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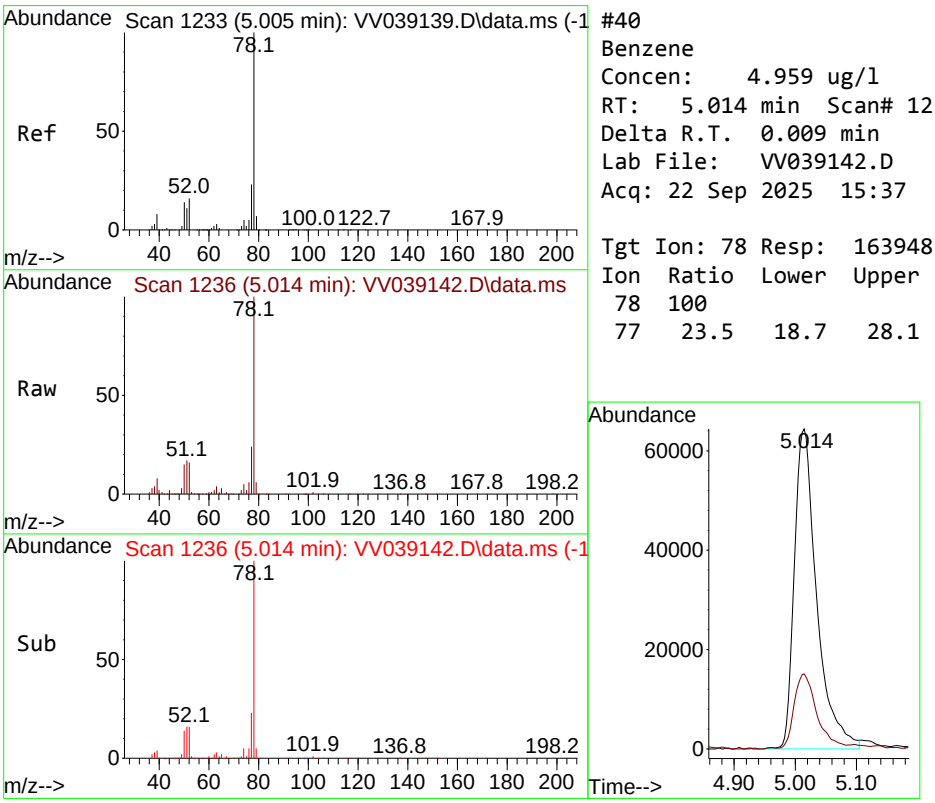
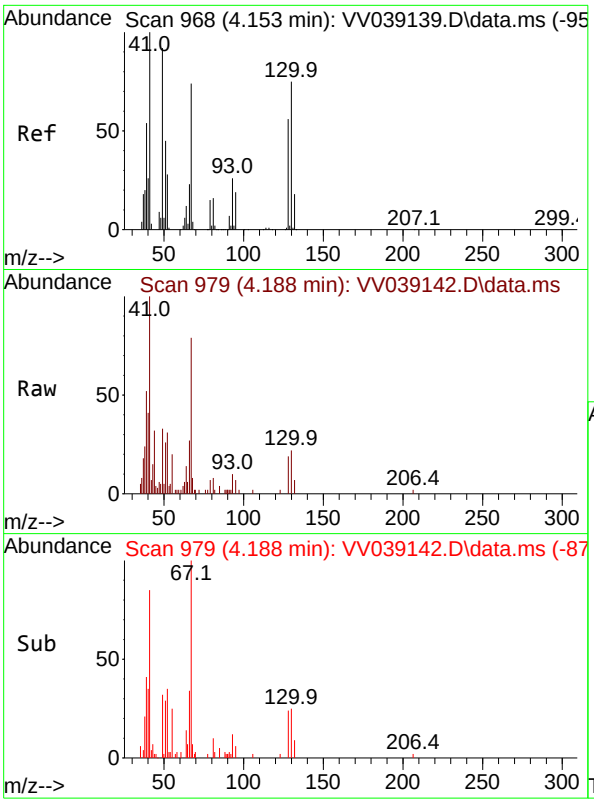


#40
Benzene
Concen: 4.959 ug/l
RT: 5.014 min Scan# 1236
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 78 Resp: 163948

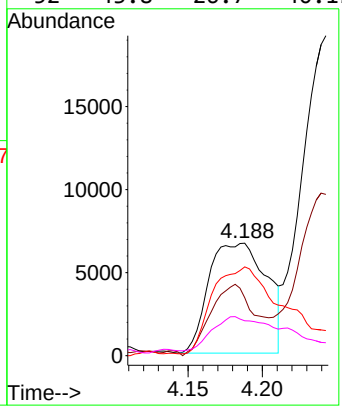
Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1



#41
Methacrylonitrile
Concen: 4.995 ug/l
RT: 4.188 min Scan# 9
Delta R.T. 0.035 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 1795

Ion	Ratio	Lower	Upper
41	100		
39	50.3	42.2	63.2
67	102.2	67.9	101.9#
52	43.8	26.7	40.1#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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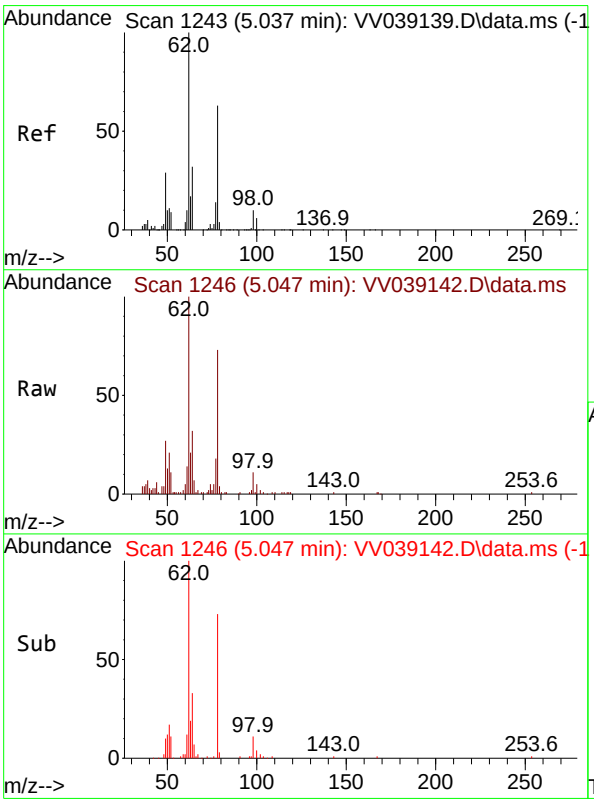
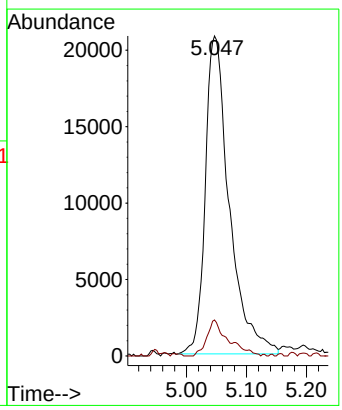
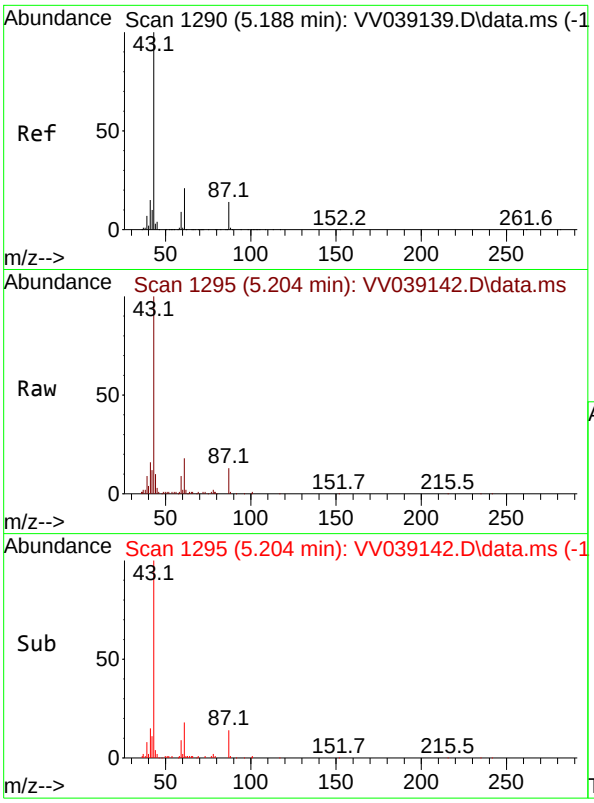


#42
1,2-Dichloroethane
Concen: 4.994 ug/l
RT: 5.047 min Scan# 1246
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 57857

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	19.2

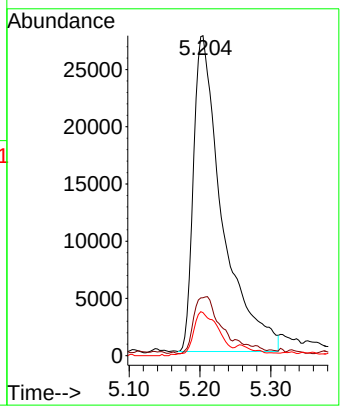




#43
Isopropyl Acetate
Concen: 4.509 ug/l
RT: 5.204 min Scan# 1
Delta R.T. 0.016 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 7793

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.9	23.9#
87	12.0	11.0	16.6



Instrument :
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ClientSampleId :
VSTDICC005

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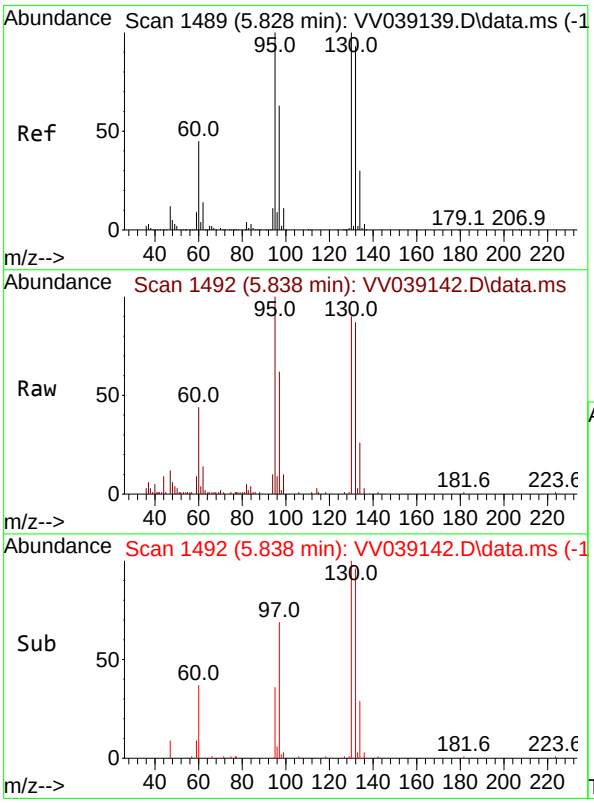
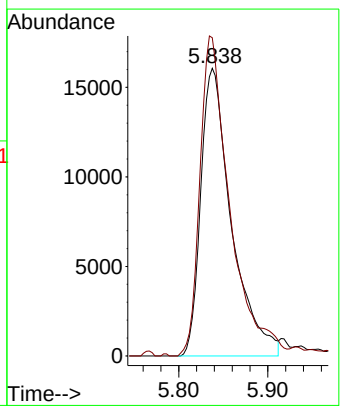
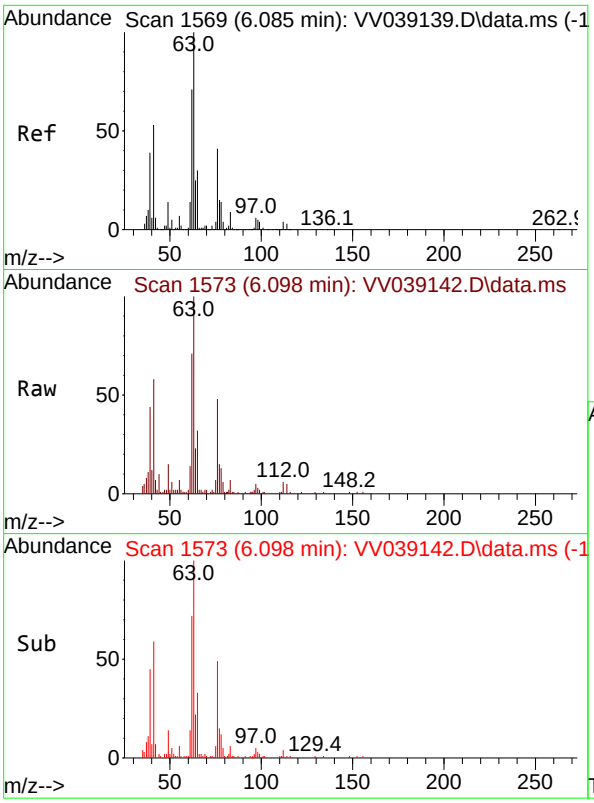


#44
Trichloroethene
Concen: 5.033 ug/l
RT: 5.838 min Scan# 1492
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:130 Resp: 38395

Ion	Ratio	Lower	Upper
130	100		
95	110.6	0.0	199.2

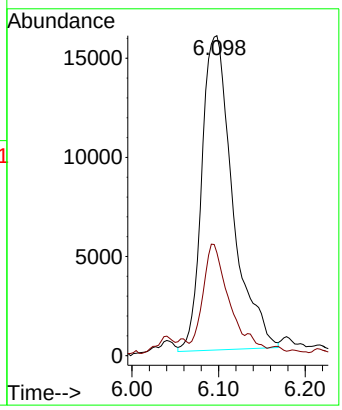




#45
1,2-Dichloropropane
Concen: 4.786 ug/l
RT: 6.098 min Scan# 1
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 3932

Ion	Ratio	Lower	Upper
63	100		
65	29.6	23.7	35.5



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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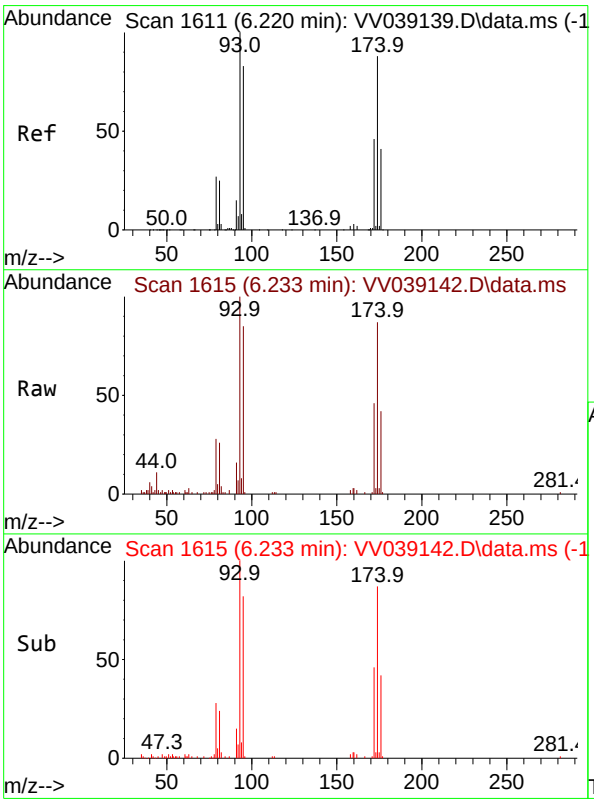
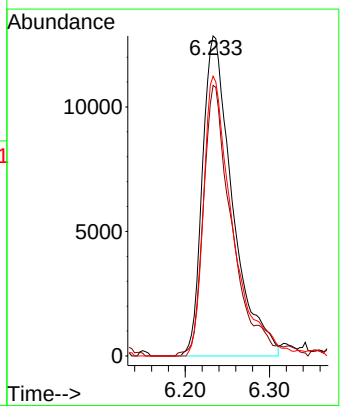
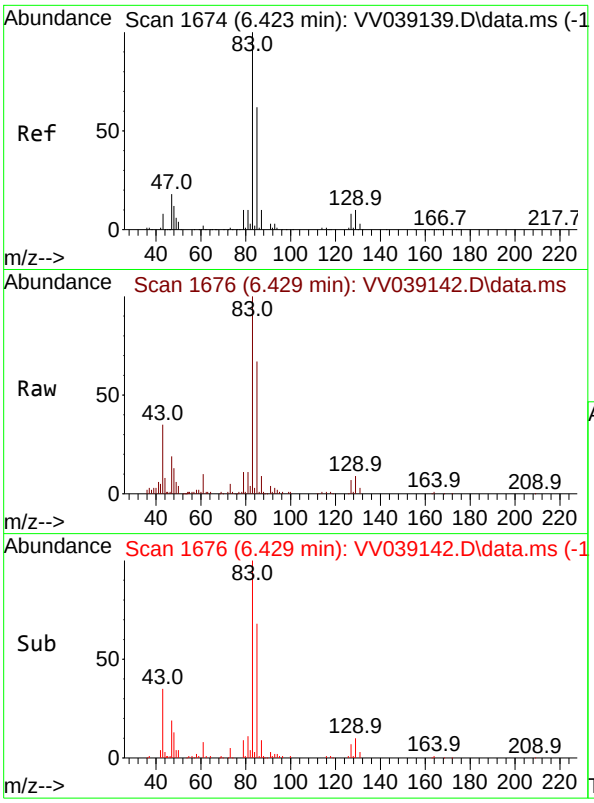


#46
Dibromomethane
Concen: 5.066 ug/l
RT: 6.233 min Scan# 1615
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 93 Resp: 31863

Ion	Ratio	Lower	Upper
93	100		
95	80.2	65.5	98.3
174	84.5	69.0	103.4

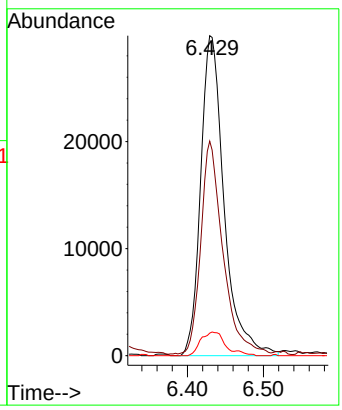




#47
Bromodichloromethane
Concen: 4.925 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 6403

Ion	Ratio	Lower	Upper
83	100		
85	66.5	49.7	74.5
127	7.1	6.6	9.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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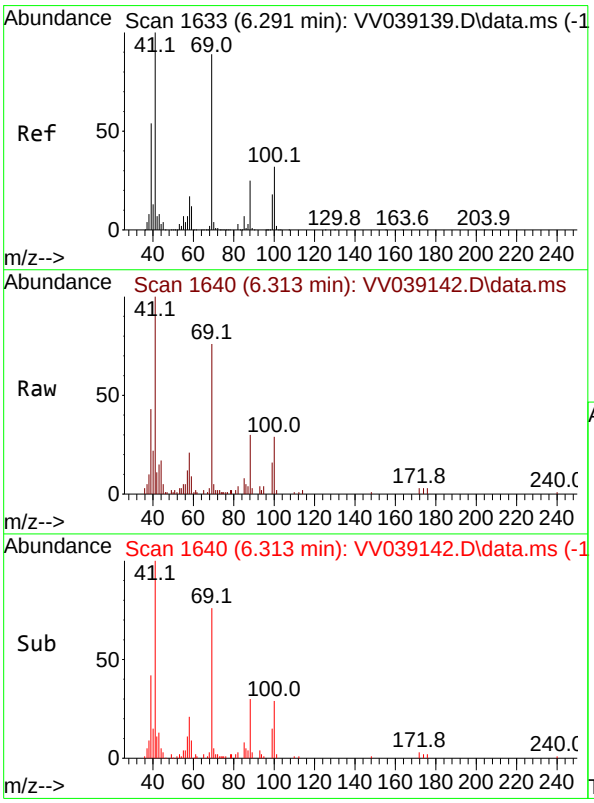
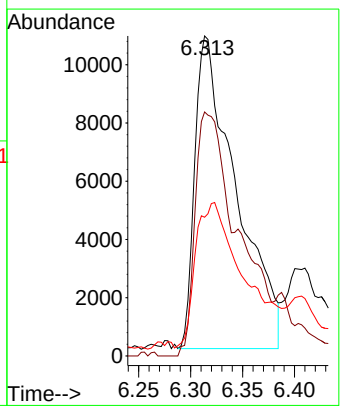
Supervised By :Semsettin Yesilyurt 09/26/2025

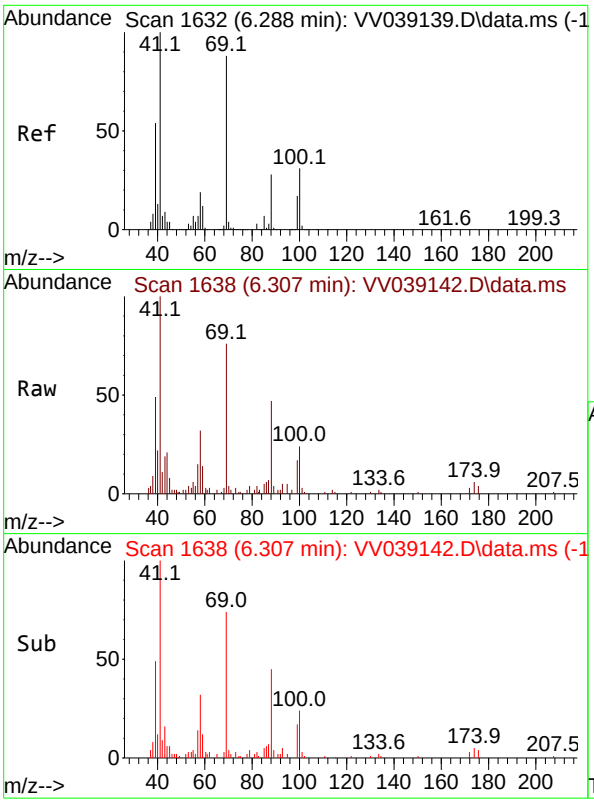


#48
Methyl methacrylate
Concen: 3.757 ug/l
RT: 6.313 min Scan# 1640
Delta R.T. 0.022 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 29705

Ion	Ratio	Lower	Upper
41	100		
69	81.4	72.4	108.6
39	54.4	42.5	63.7

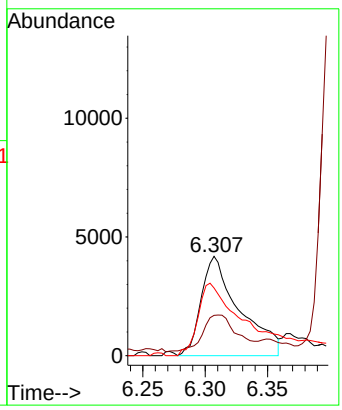




#49
1,4-Dioxane
Concen: 72.413 ug/l
RT: 6.307 min Scan# 1
Delta R.T. 0.019 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 88 Resp: 899

Ion	Ratio	Lower	Upper
88	100		
43	31.9	25.1	37.7
58	91.7	53.6	80.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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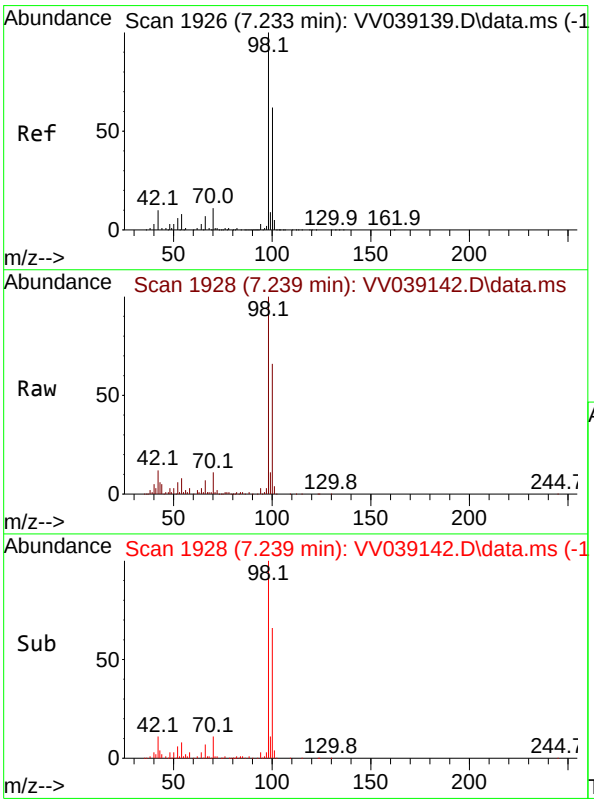
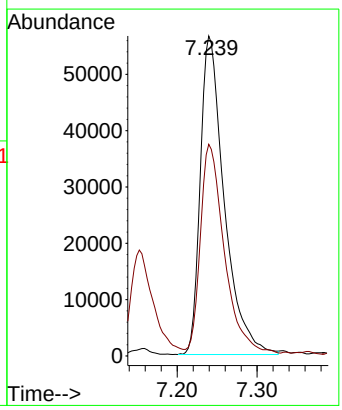
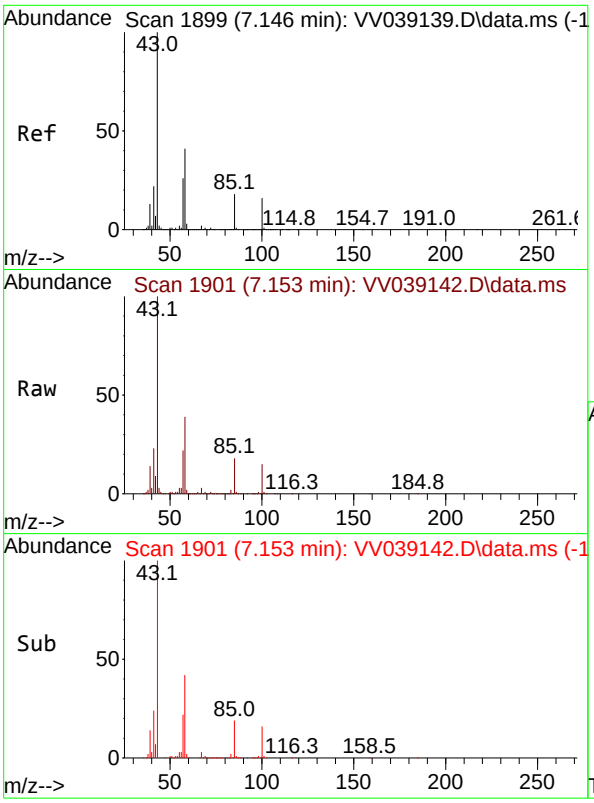


#50
Toluene-d8
Concen: 5.976 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 98 Resp: 117860

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.2	78.2

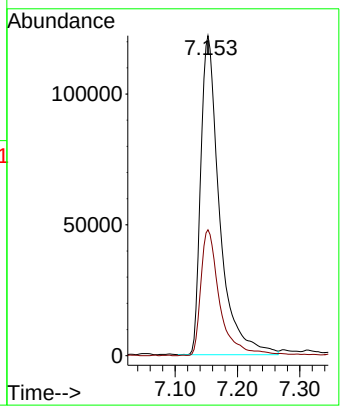




#51
4-Methyl-2-Pentanone
Concen: 23.155 ug/l
RT: 7.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 25588

Ion	Ratio	Lower	Upper
43	100		
58	39.6	32.3	48.5



Instrument :
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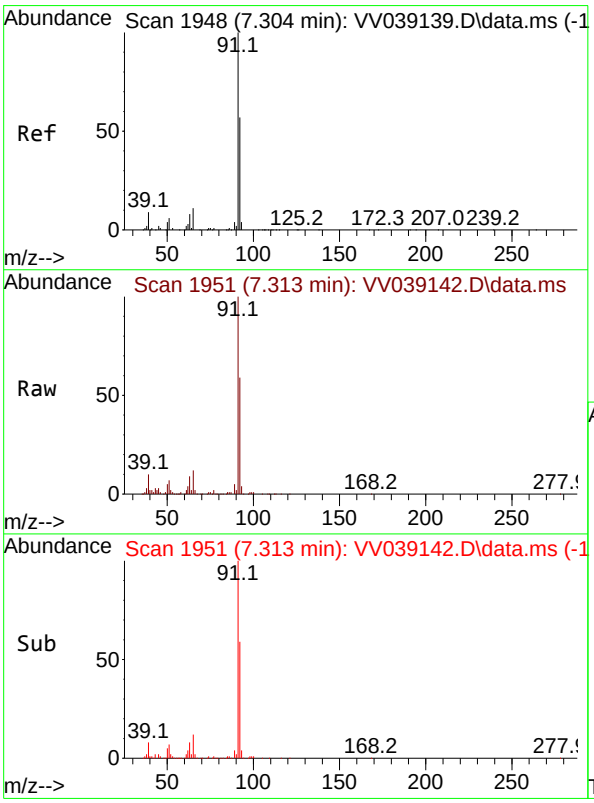
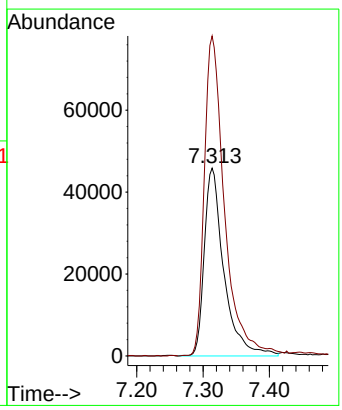
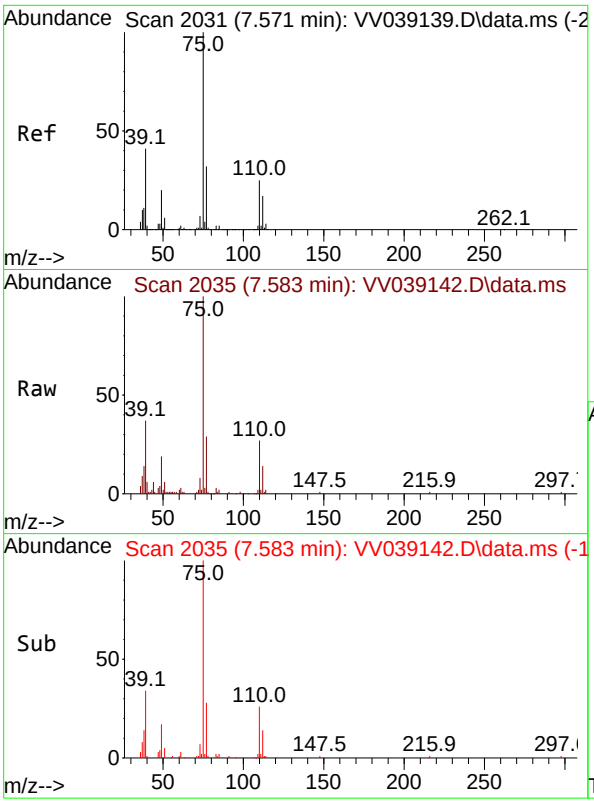


#52
Toluene
Concen: 4.925 ug/l
RT: 7.313 min Scan# 1951
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 92 Resp: 94414

Ion	Ratio	Lower	Upper
92	100		
91	175.4	139.2	208.8





#53
t-1,3-Dichloropropene
Concen: 4.755 ug/l
RT: 7.583 min Scan# 2
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 5387

Ion	Ratio	Lower	Upper
75	100		
77	29.0	25.9	38.9

Instrument :
MSVOA_V
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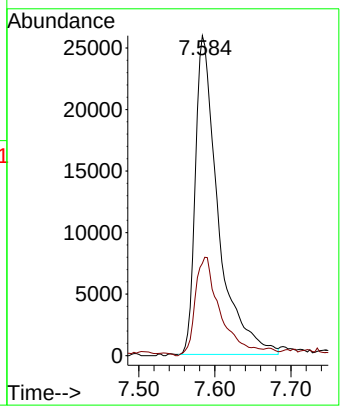
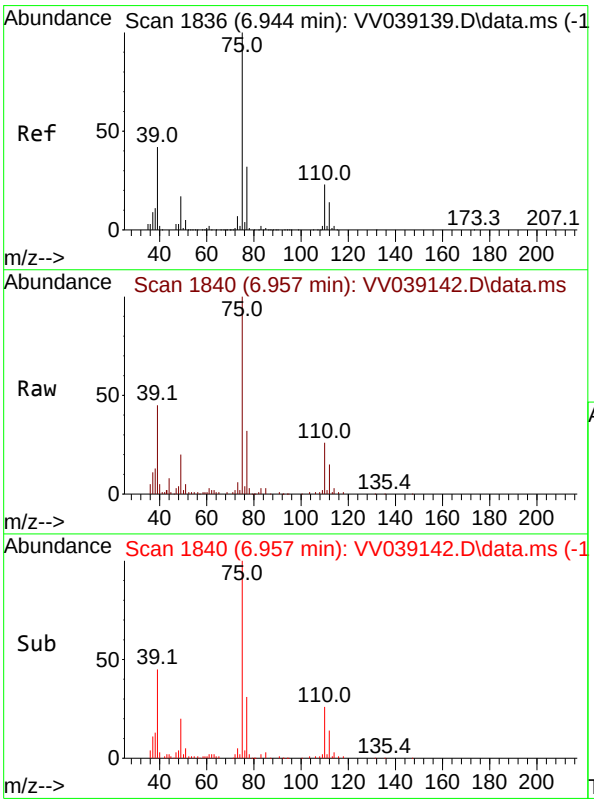
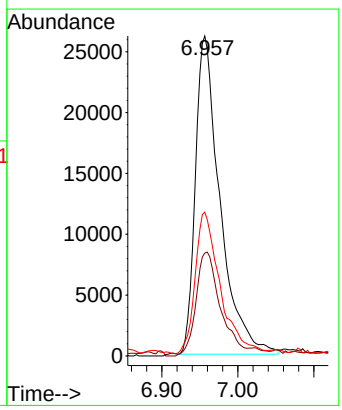


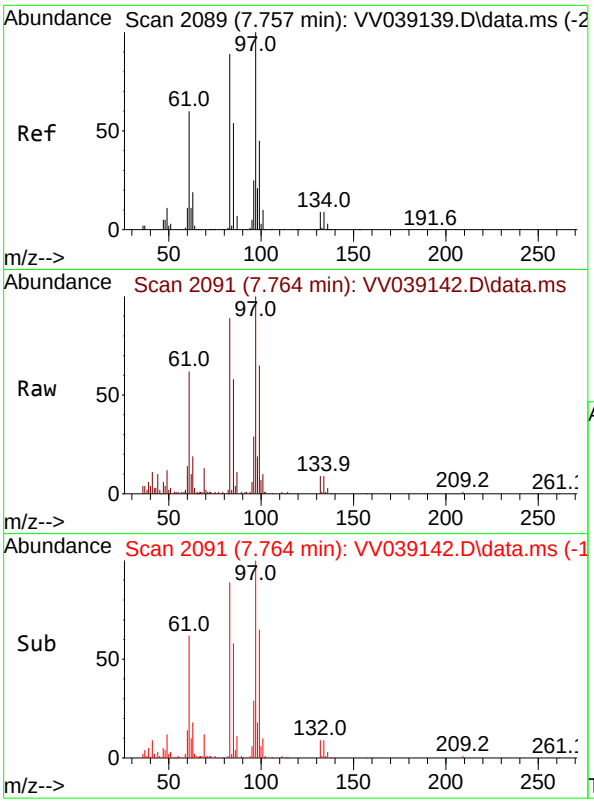


#54
cis-1,3-Dichloropropene
Concen: 4.700 ug/l
RT: 6.957 min Scan# 1840
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 58800

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.5	38.3
39	44.3	33.8	50.6

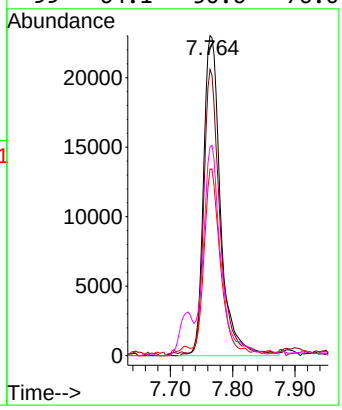




#55
1,1,2-Trichloroethane
Concen: 5.094 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 97 Resp: 4378

Ion	Ratio	Lower	Upper
97	100		
83	88.7	71.1	106.7
85	57.1	44.6	67.0
99	64.1	50.6	76.0



Instrument :
MSVOA_V
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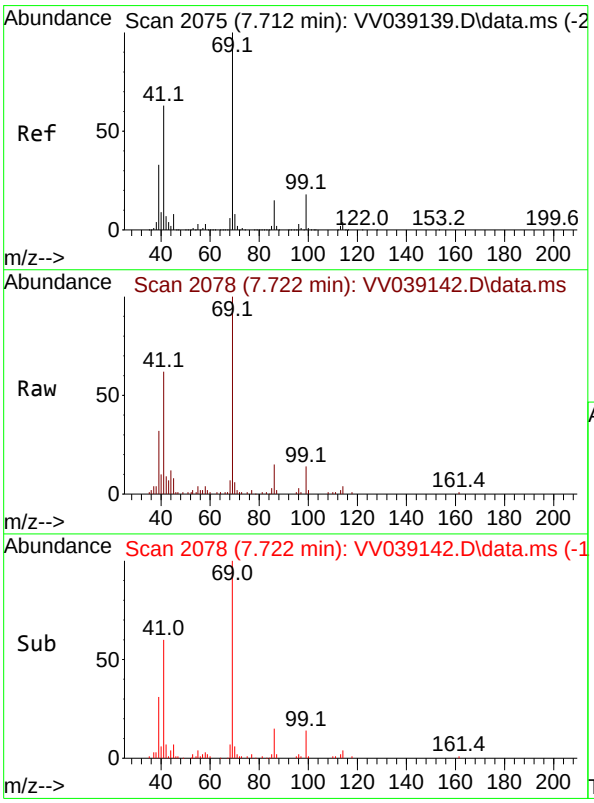
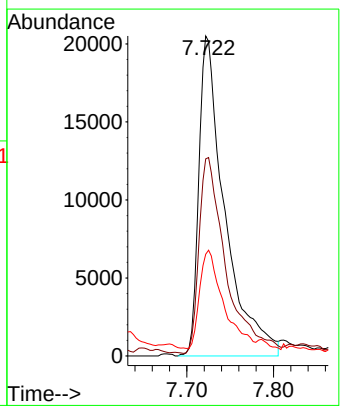
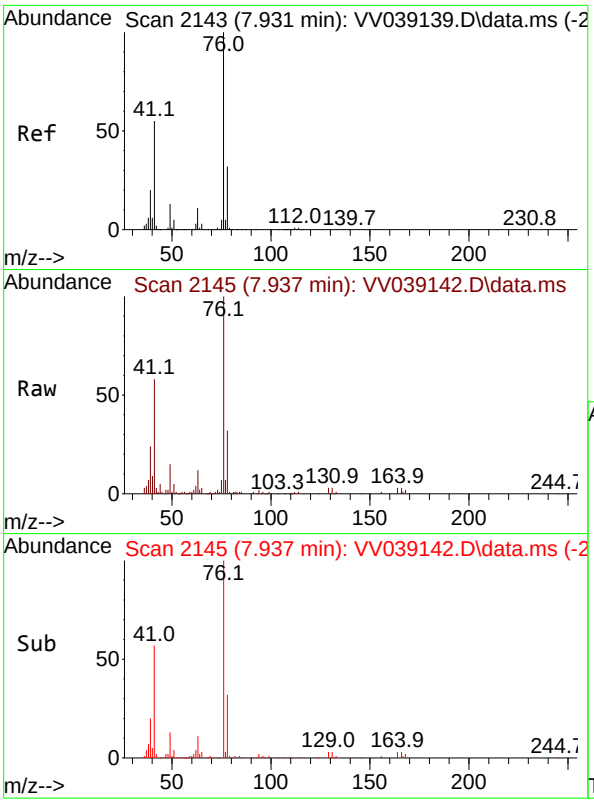


#56
Ethyl methacrylate
Concen: 4.173 ug/l
RT: 7.722 min Scan# 2078
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 69 Resp: 42598

Ion	Ratio	Lower	Upper
69	100		
41	63.6	50.7	76.1
39	28.1	26.0	39.0

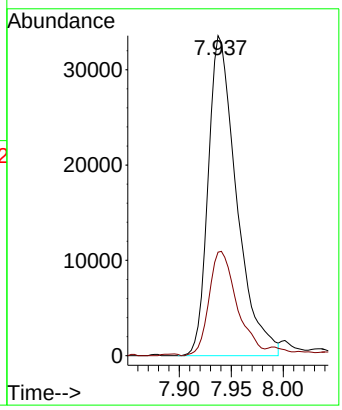




#57
1,3-Dichloropropane
Concen: 4.705 ug/l
RT: 7.937 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 76 Resp: 6381

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.1	39.1



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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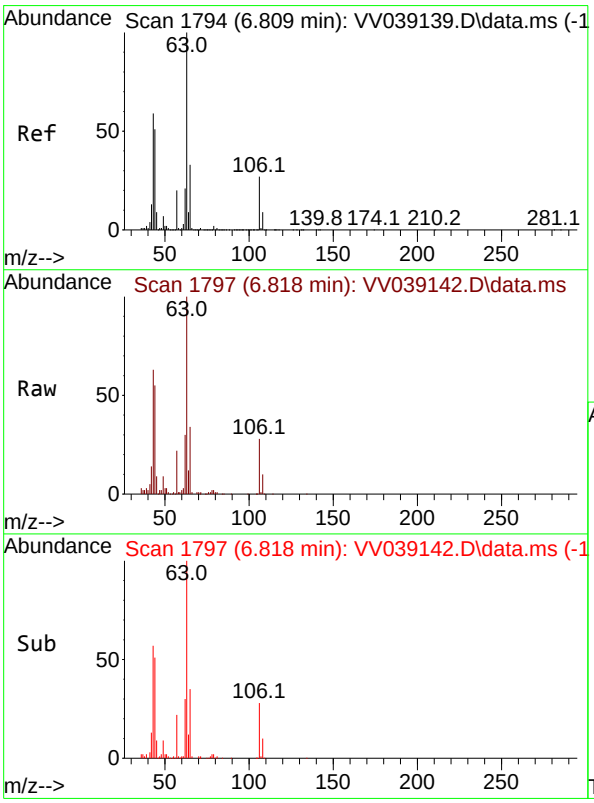
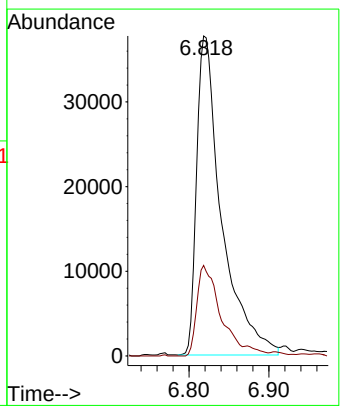
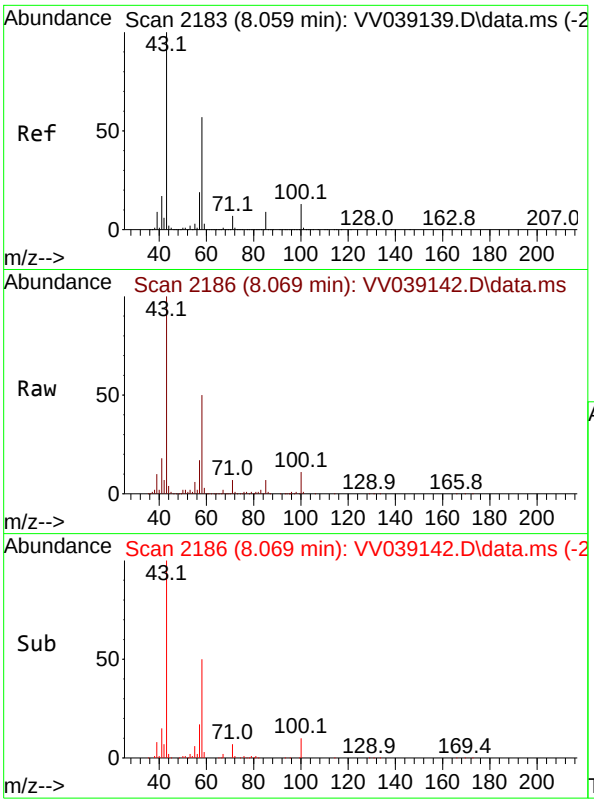


#58
2-Chloroethyl Vinyl ether
Concen: 23.077 ug/l
RT: 6.818 min Scan# 1797
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 81984

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.1	33.1





#59
2-Hexanone
Concen: 22.071 ug/l
RT: 8.069 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 17918

Ion	Ratio	Lower	Upper
43	100		
58	48.1	28.3	85.0

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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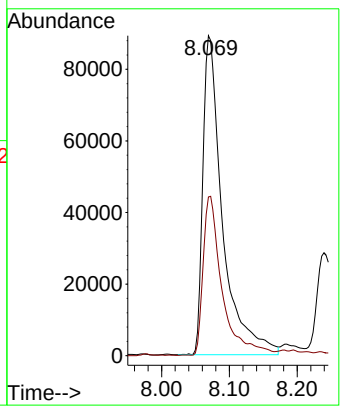
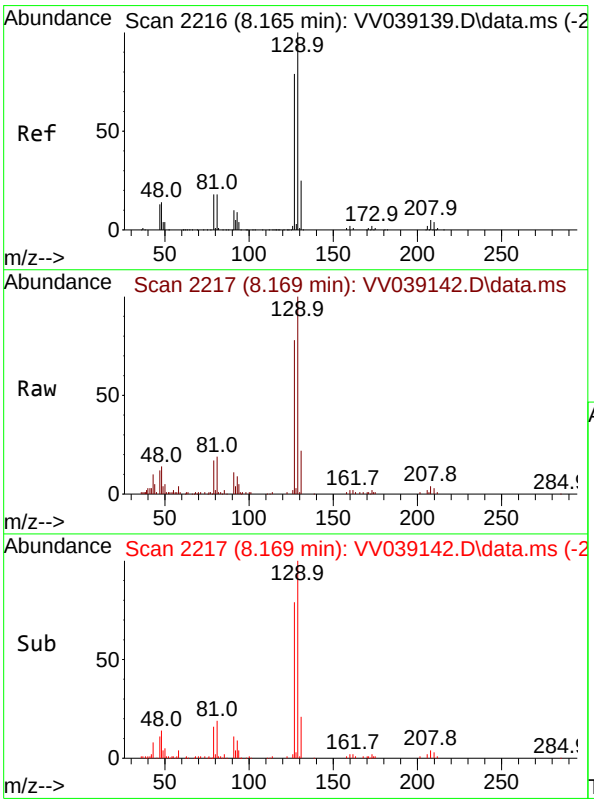
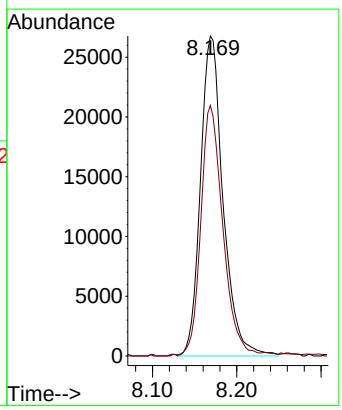


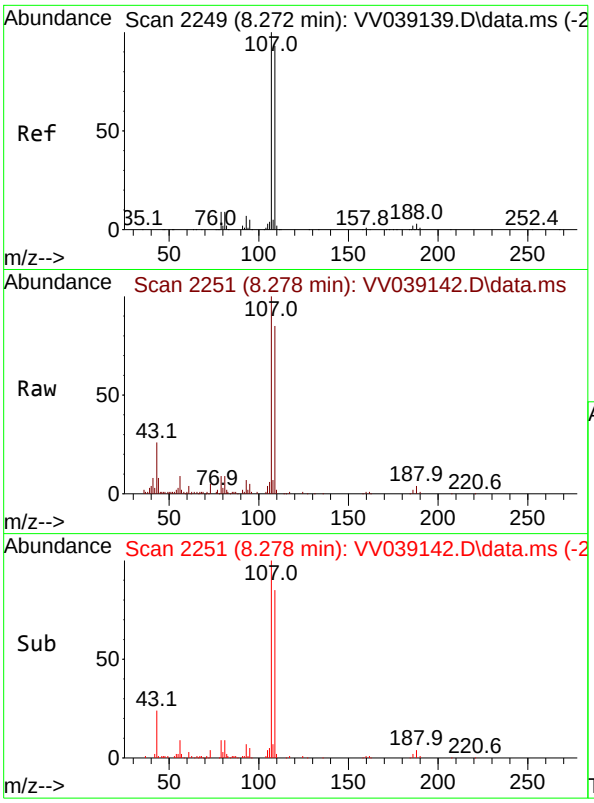


#60
Dibromochloromethane
Concen: 5.100 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:129 Resp: 49953

Ion	Ratio	Lower	Upper
129	100		
127	74.8	39.3	117.9





#61
1,2-Dibromoethane
Concen: 5.088 ug/l
RT: 8.278 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:107 Resp: 4472

Ion	Ratio	Lower	Upper
107	100		
109	91.4	74.6	112.0

Instrument :
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ClientSampleId :
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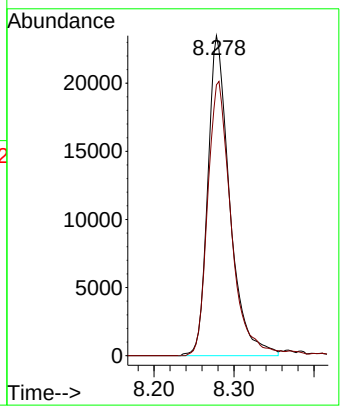
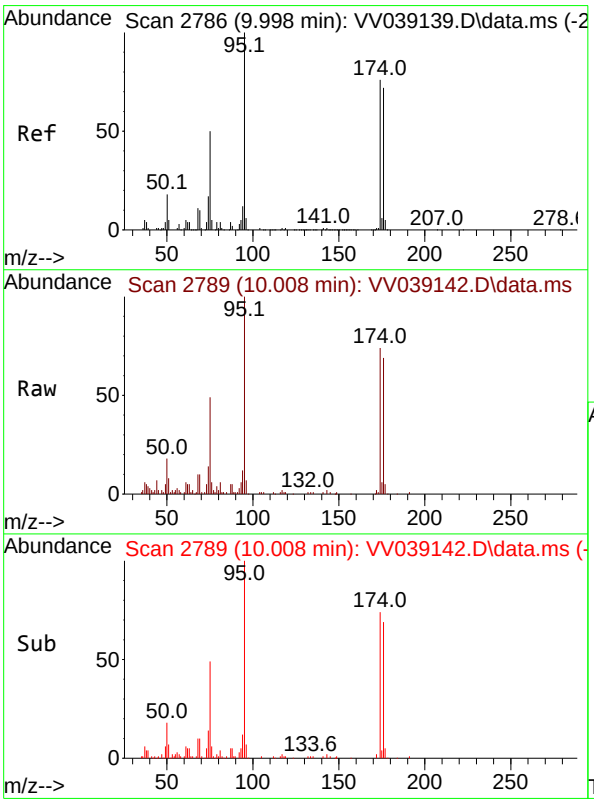
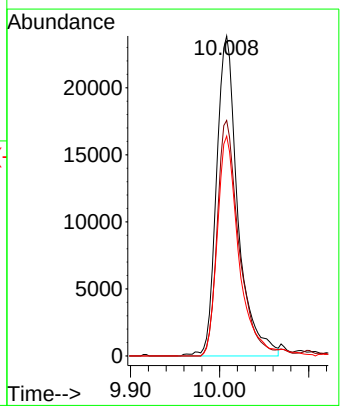


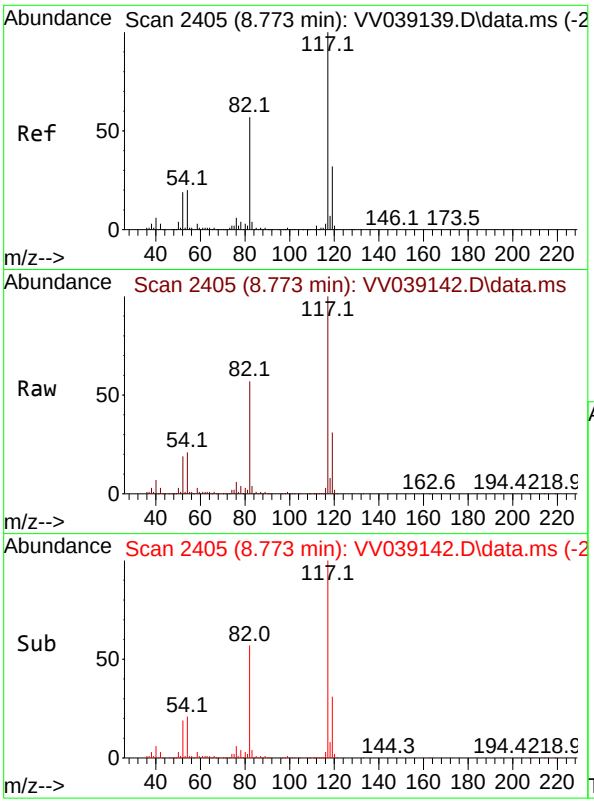


#62
4-Bromofluorobenzene
Concen: 4.904 ug/l
RT: 10.008 min Scan# 2789
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 95 Resp: 39819

Ion	Ratio	Lower	Upper
95	100		
174	74.3	0.0	150.4
176	70.3	0.0	144.2

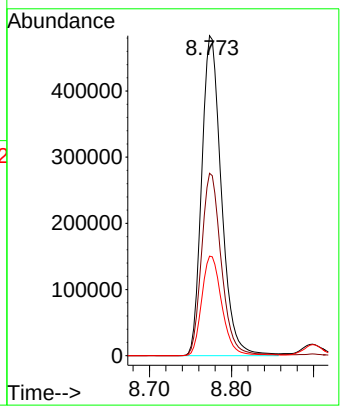




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 80774

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.4	68.2
119	31.1	25.6	38.4



Instrument :
MSVOA_V
ClientSampleId :
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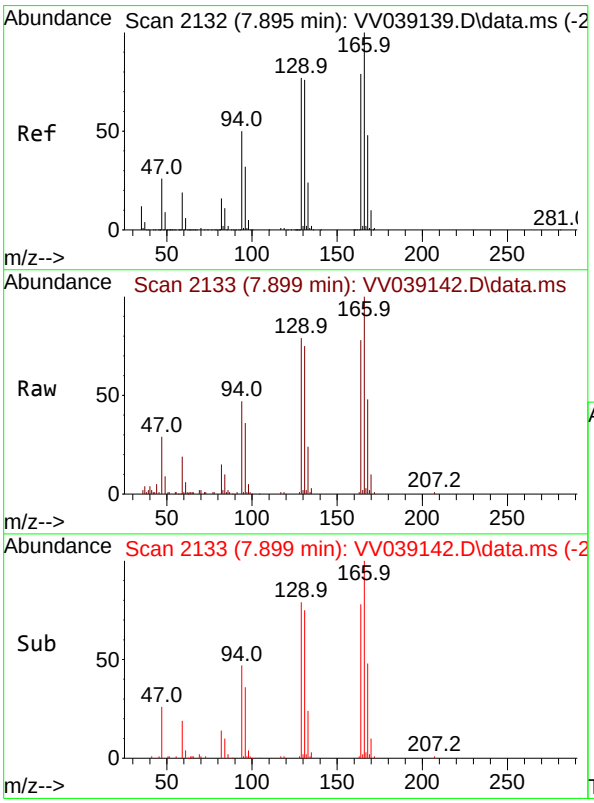
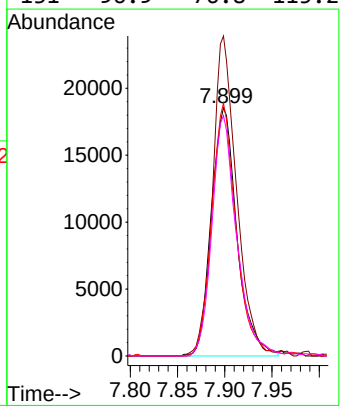
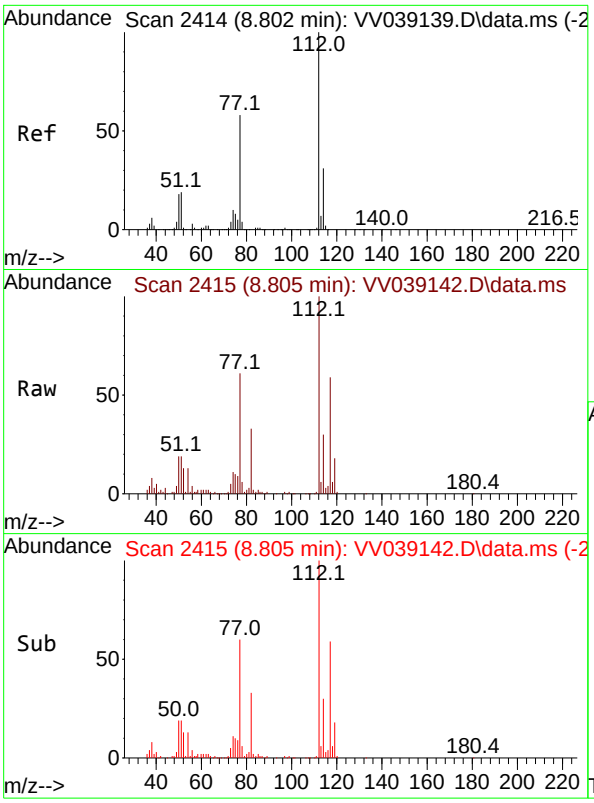


#64
Tetrachloroethene
Concen: 5.143 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:164 Resp: 34795

Ion	Ratio	Lower	Upper
164	100		
166	128.9	101.6	152.4
129	101.9	78.5	117.7
131	96.9	76.8	115.2

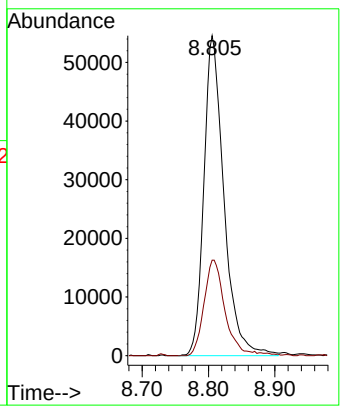




#65
Chlorobenzene
Concen: 5.086 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:112 Resp: 11442

Ion	Ratio	Lower	Upper
112	100		
114	29.8	24.6	37.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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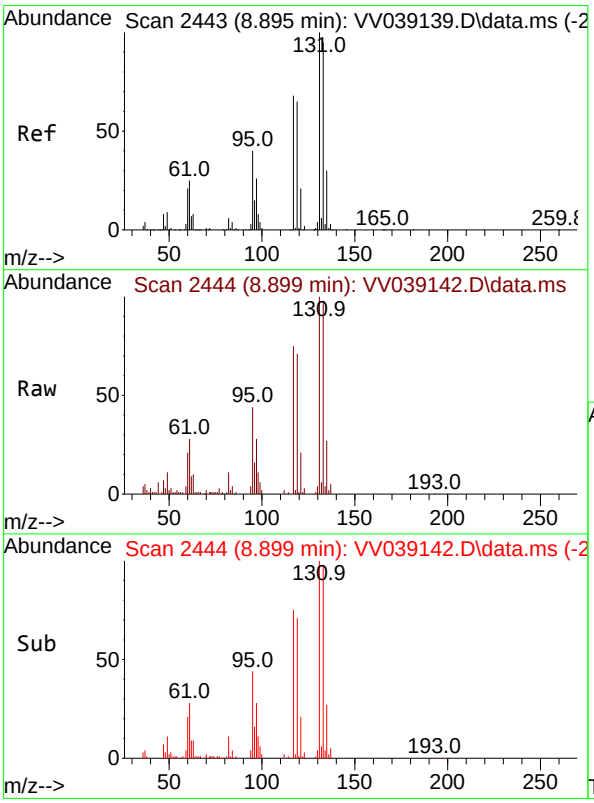
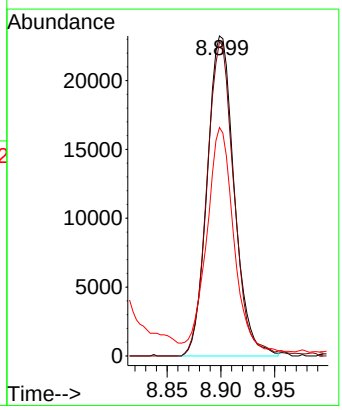
Supervised By :Semsettin Yesilyurt 09/26/2025

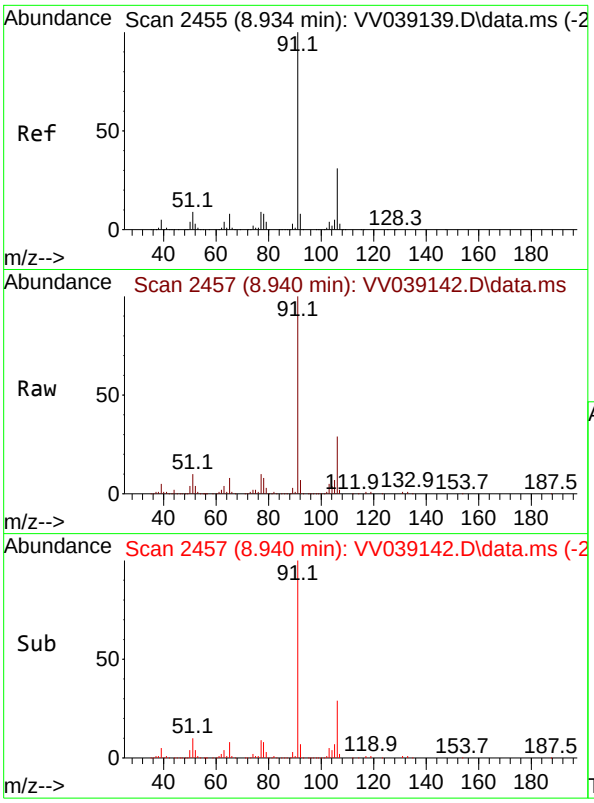


#66
1,1,1,2-Tetrachloroethane
Concen: 5.005 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:131 Resp: 40690

Ion	Ratio	Lower	Upper
131	100		
133	98.7	47.3	141.8
119	70.6	33.3	99.8

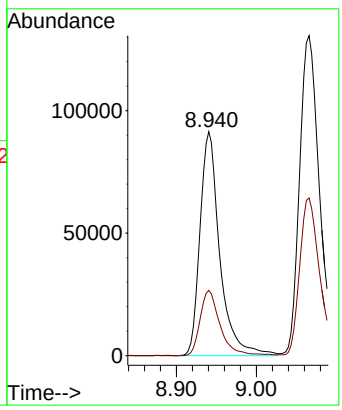




#67
Ethyl Benzene
Concen: 4.633 ug/l
RT: 8.940 min Scan# 24
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 15779

Ion	Ratio	Lower	Upper
91	100		
106	29.1	24.6	37.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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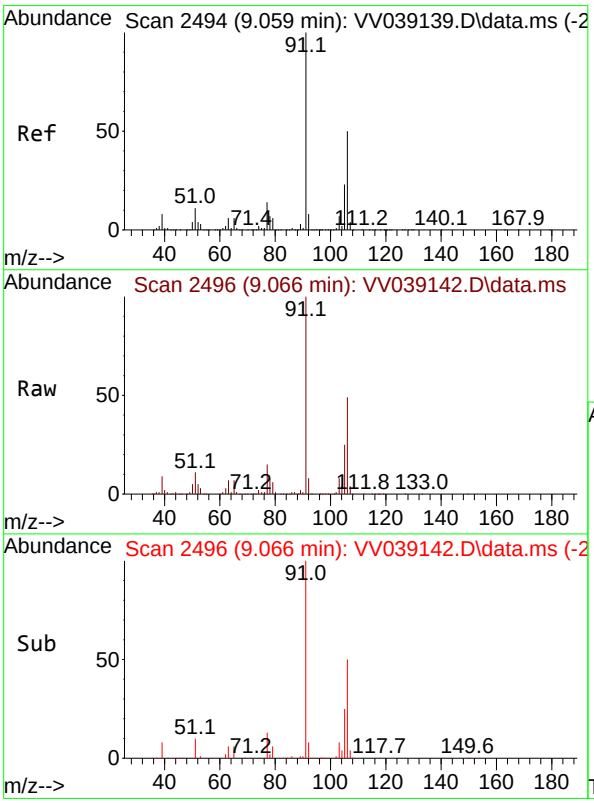
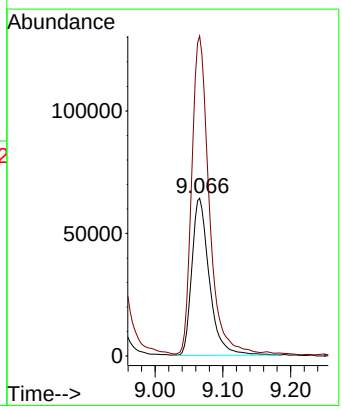
Supervised By :Semsettin Yesilyurt 09/26/2025

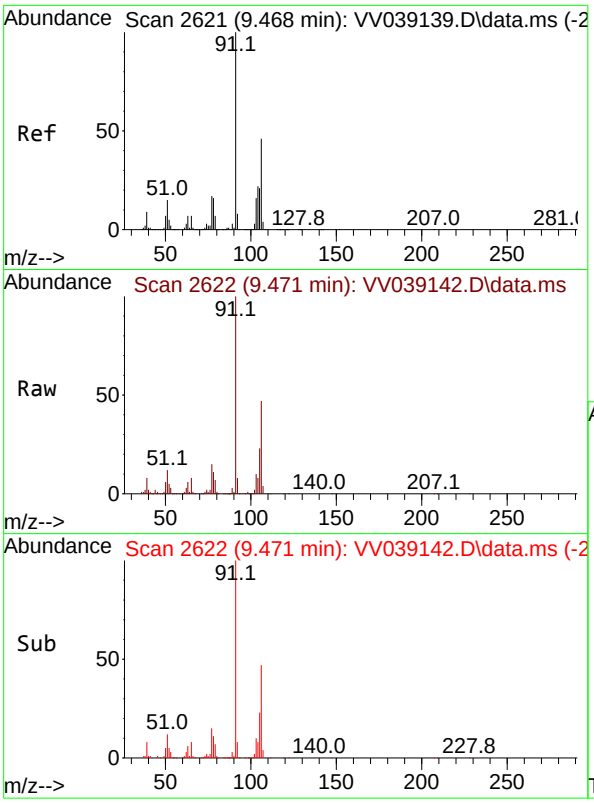


#68
m/p-Xylenes
Concen: 8.762 ug/l
RT: 9.066 min Scan# 2496
Delta R.T. 0.007 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:106 Resp: 115177

Ion	Ratio	Lower	Upper
106	100		
91	200.3	162.5	243.7

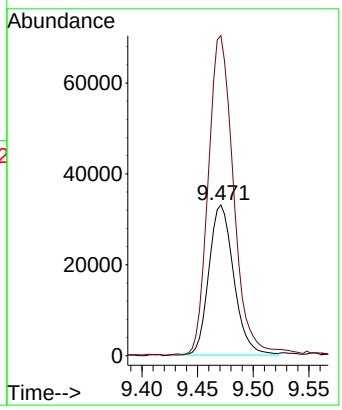




#69
o-Xylene
Concen: 4.406 ug/l
RT: 9.471 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:106 Resp: 5128

Ion	Ratio	Lower	Upper
106	100		
91	218.4	109.1	327.3



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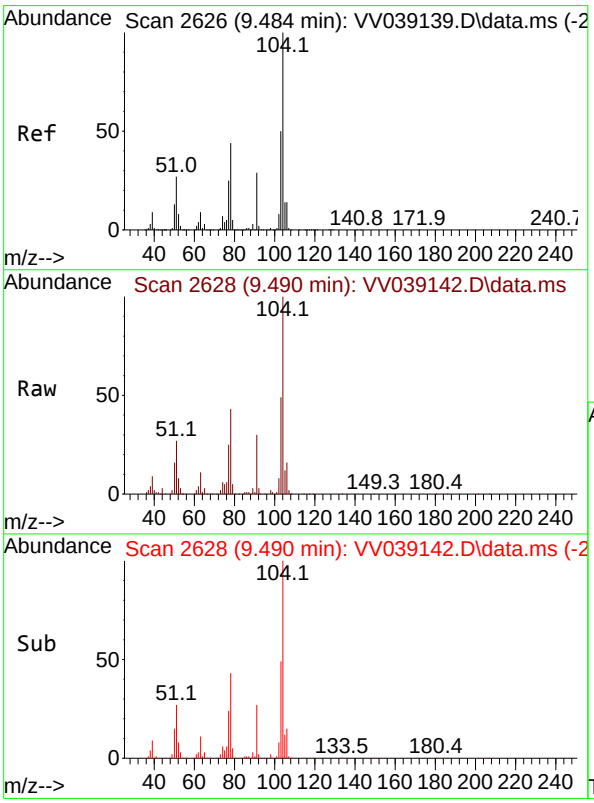
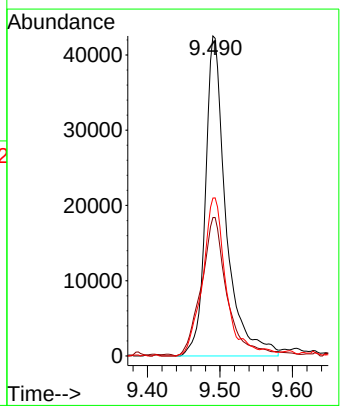
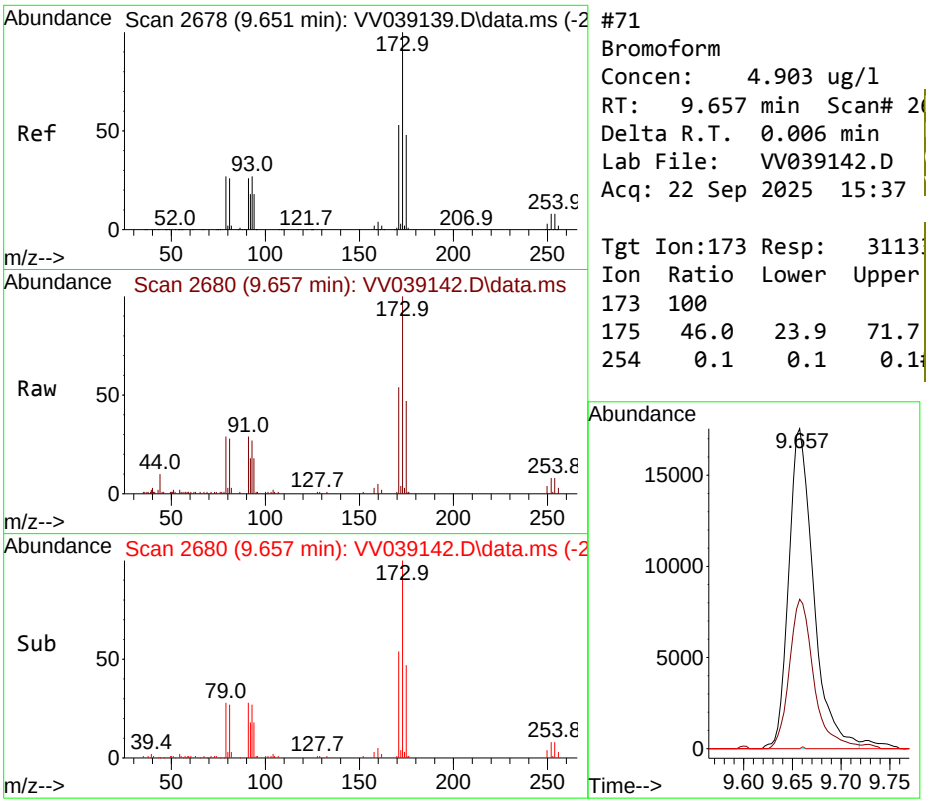


#70
Styrene
Concen: 4.836 ug/l
RT: 9.490 min Scan# 2628
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:104 Resp: 83873

Ion	Ratio	Lower	Upper
104	100		
78	53.9	39.8	59.6
103	55.8	43.4	65.2





#71
Bromoform
Concen: 4.903 ug/l
RT: 9.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:173 Resp: 3113

Ion	Ratio	Lower	Upper
173	100		
175	46.0	23.9	71.7
254	0.1	0.1	0.1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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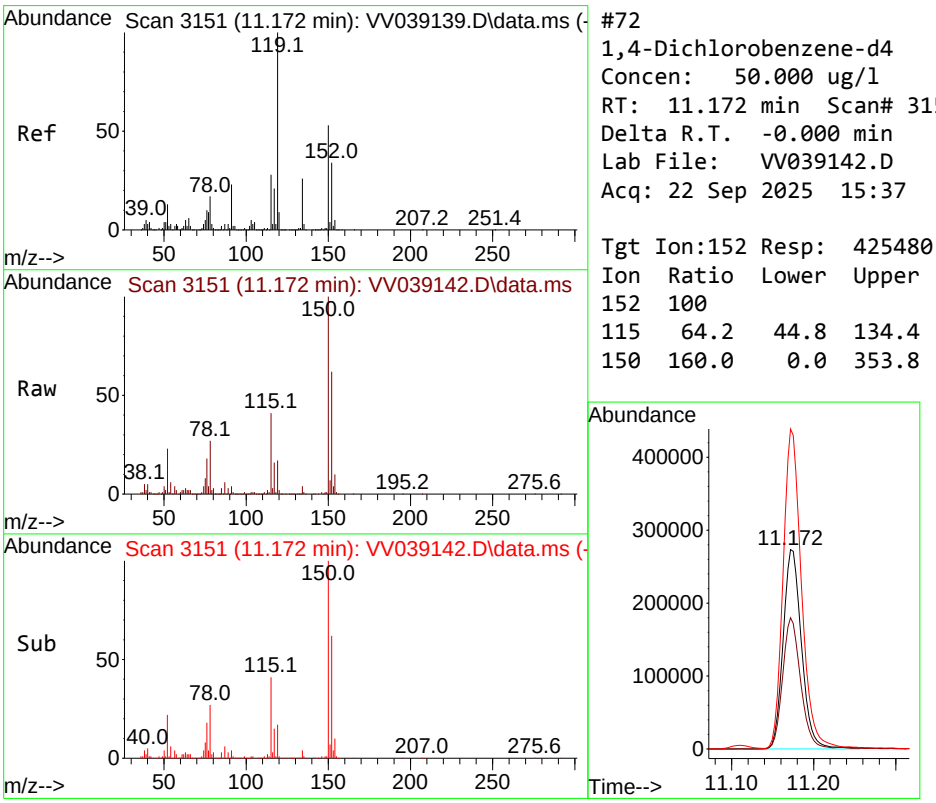
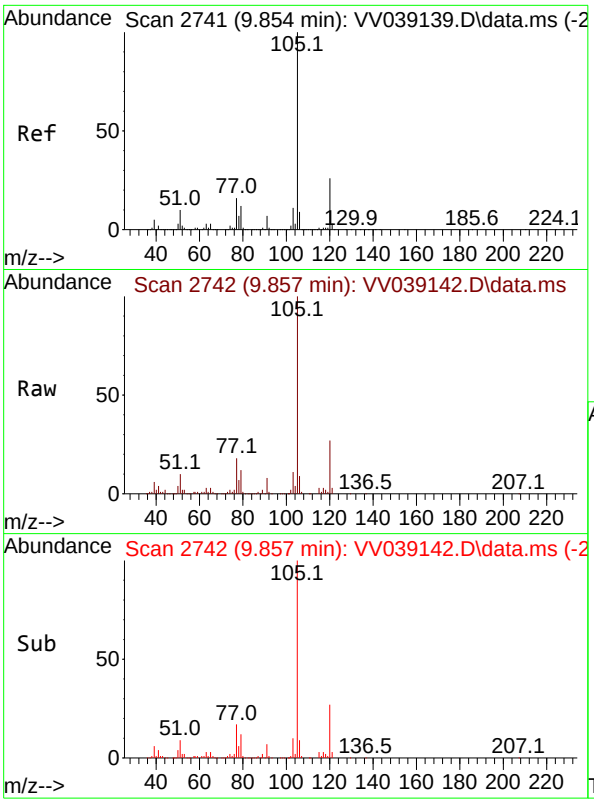


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:152 Resp: 425480

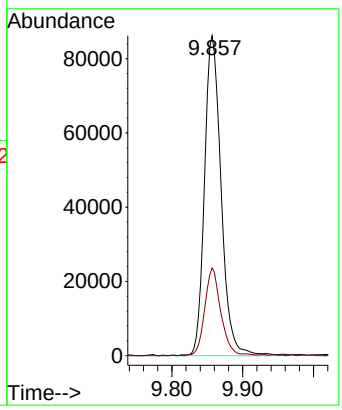
Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.8	134.4
150	160.0	0.0	353.8



#73
Isopropylbenzene
Concen: 4.545 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 14025

Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.1



Instrument :
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ClientSampleId :
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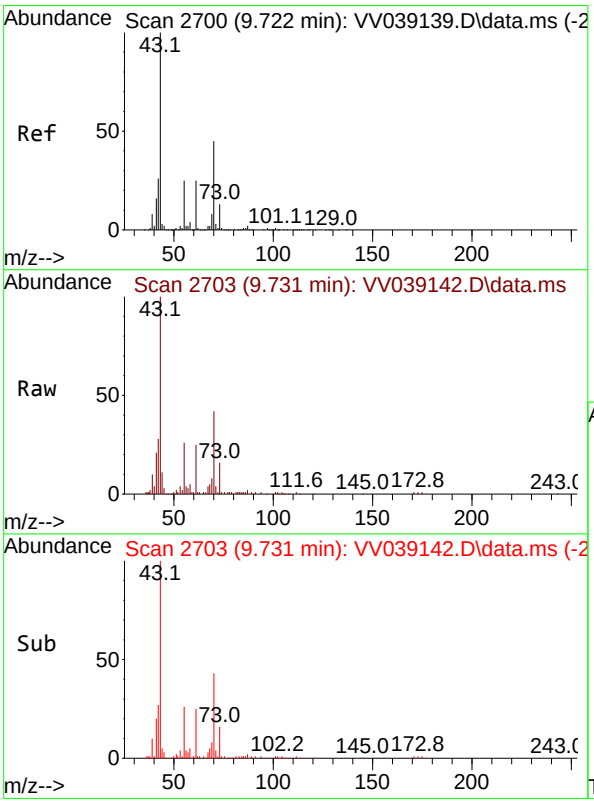
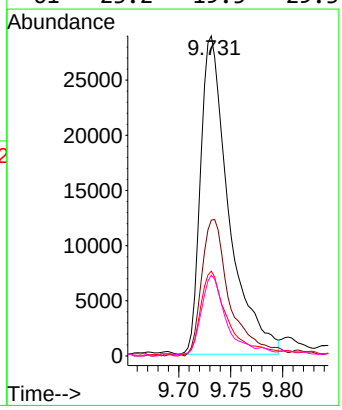
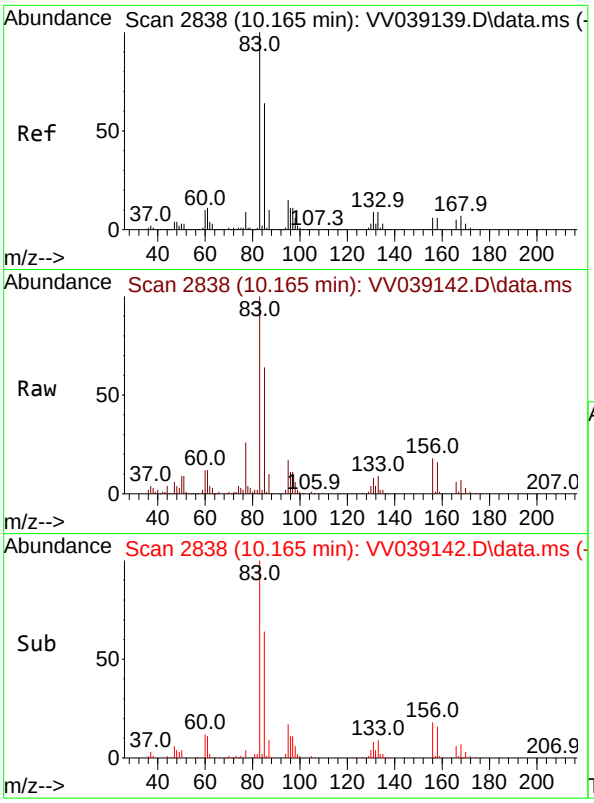


#74
N-amyl acetate
Concen: 4.422 ug/l
RT: 9.731 min Scan# 2703
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 54436

Ion	Ratio	Lower	Upper
43	100		
70	43.3	35.4	53.0
55	26.1	20.6	30.8
61	23.2	19.5	29.3

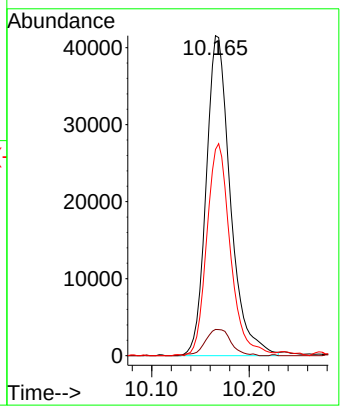




#75
1,1,2,2-Tetrachloroethane
Concen: 5.299 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 7165

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.7
85	64.6	31.9	95.9



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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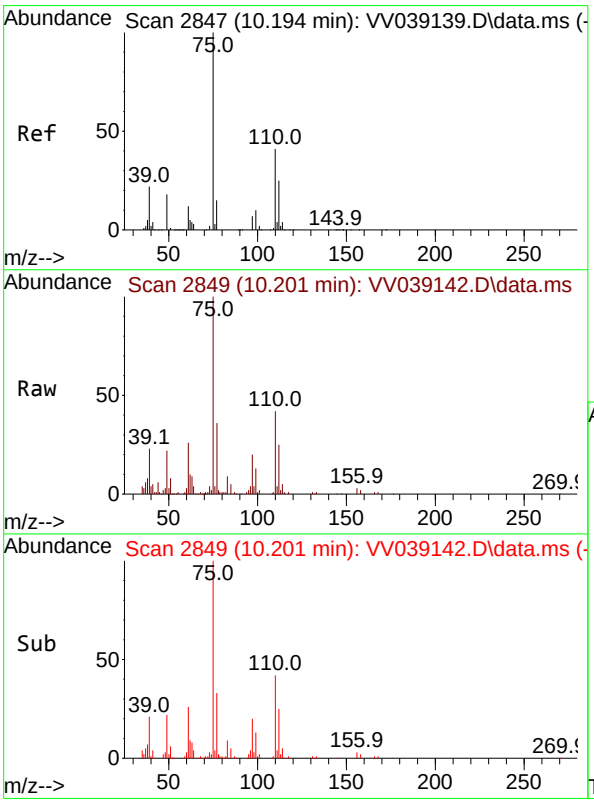
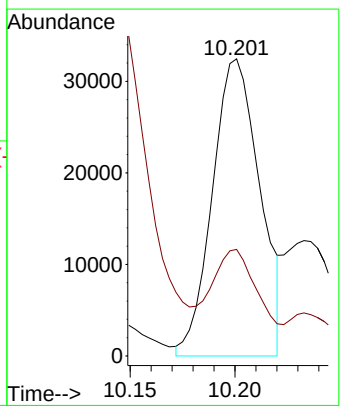
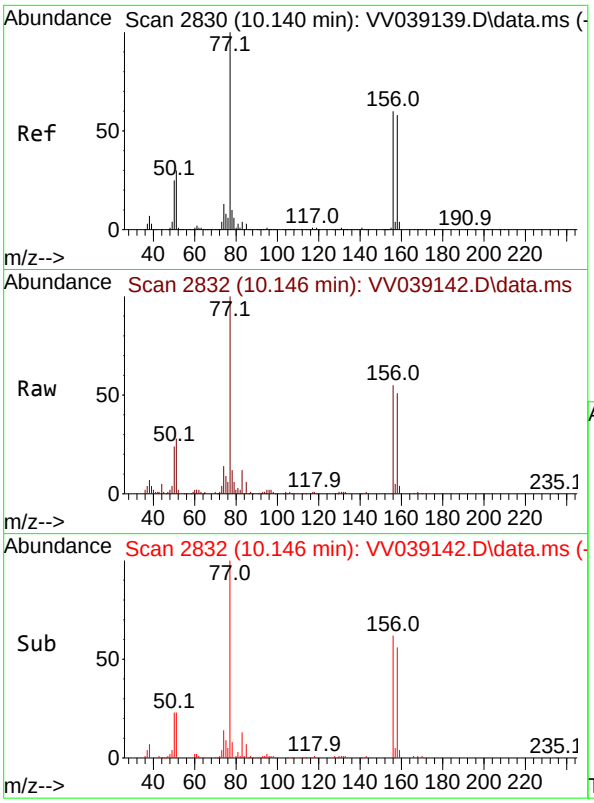


#76
1,2,3-Trichloropropane
Concen: 5.273 ug/l m
RT: 10.201 min Scan# 2849
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 51079

Ion	Ratio	Lower	Upper
75	100		
77	10.8	11.3	33.8#

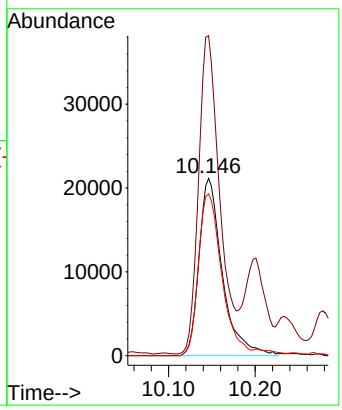




#77
Bromobenzene
Concen: 4.924 ug/l
RT: 10.146 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:156 Resp: 3942

Ion	Ratio	Lower	Upper
156	100		
77	161.3	83.4	250.1
158	91.2	48.8	146.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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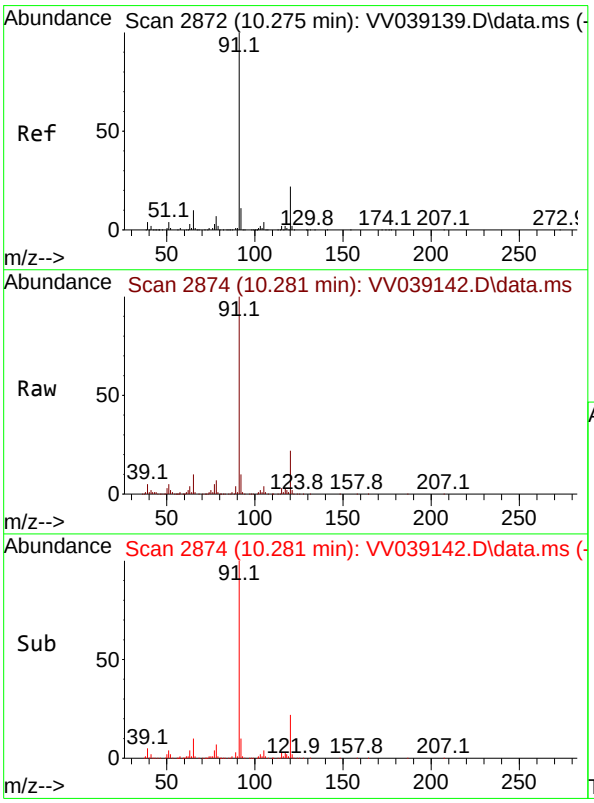
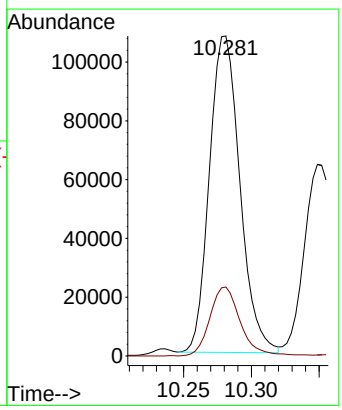
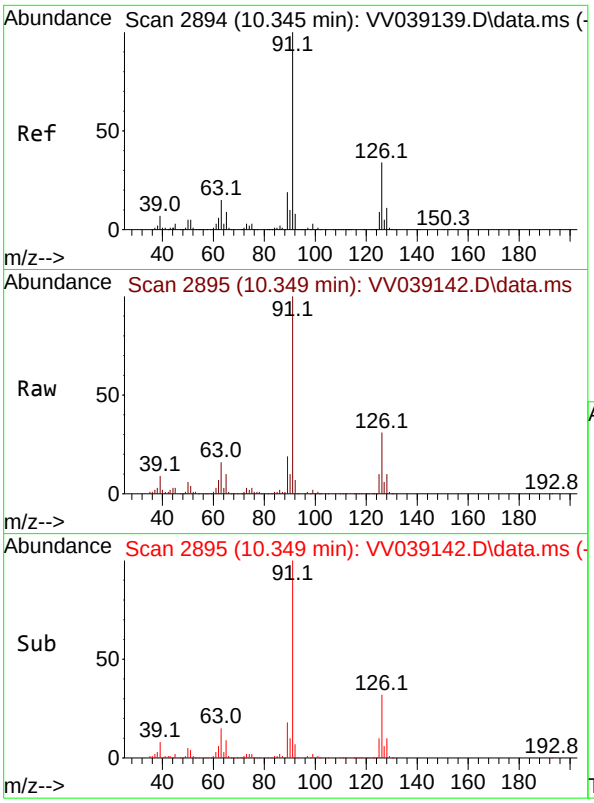


#78
n-propylbenzene
Concen: 4.492 ug/l
RT: 10.281 min Scan# 2874
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 168794

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3

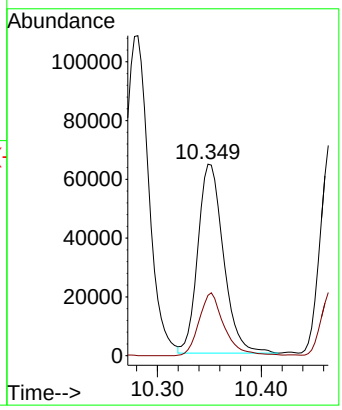




#79
2-Chlorotoluene
Concen: 4.892 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 11000

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.7	50.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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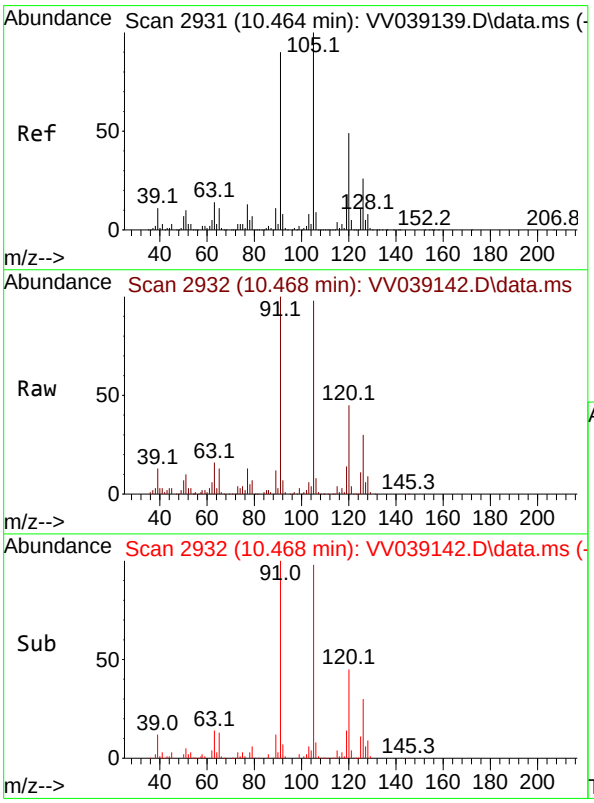
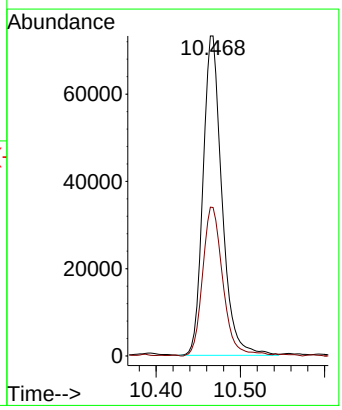
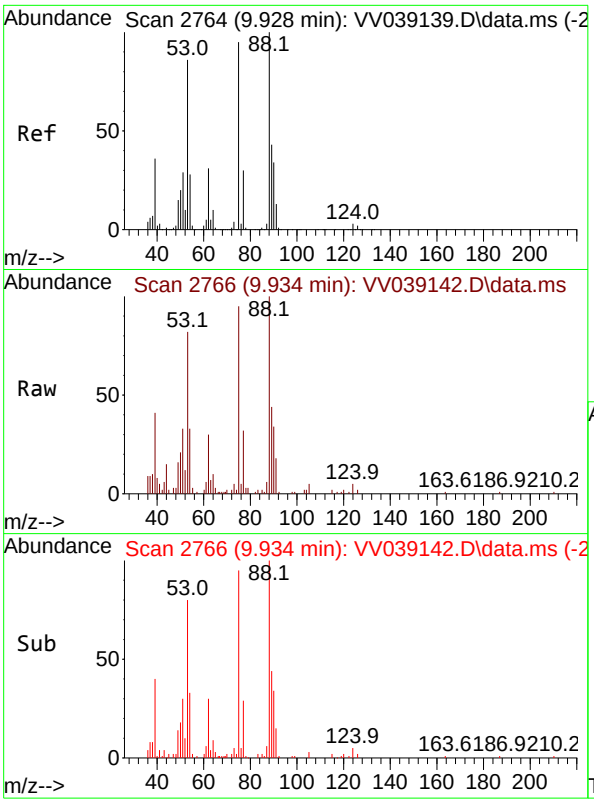


#80
1,3,5-Trimethylbenzene
Concen: 4.474 ug/l
RT: 10.468 min Scan# 2932
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 114749

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 4.499 ug/l
RT: 9.934 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 1815

Ion	Ratio	Lower	Upper
75	100		
53	99.7	72.5	108.7
89	53.4	37.2	55.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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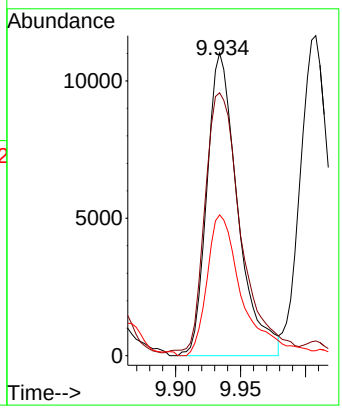
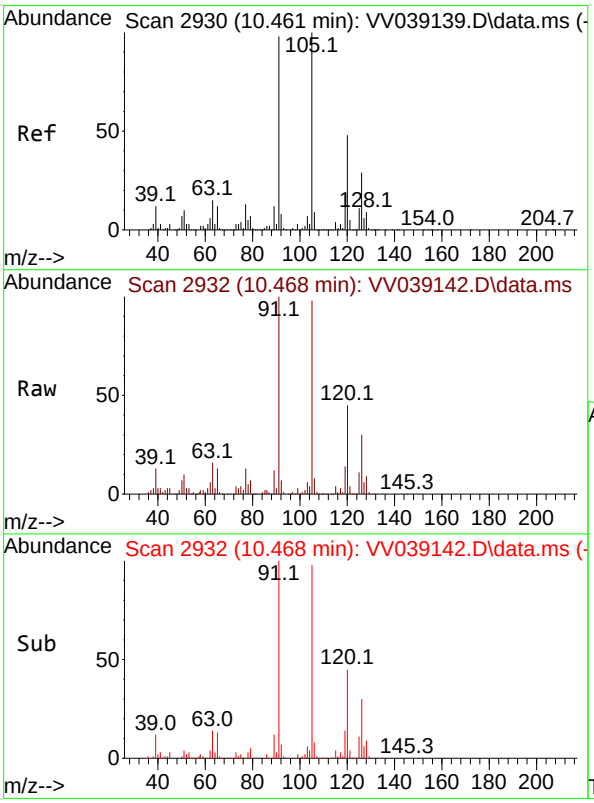
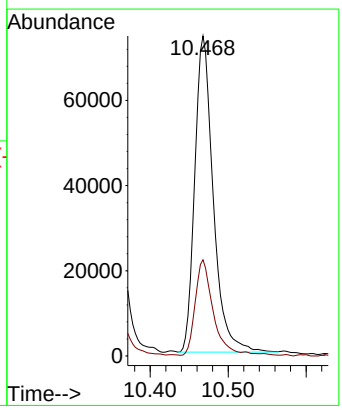


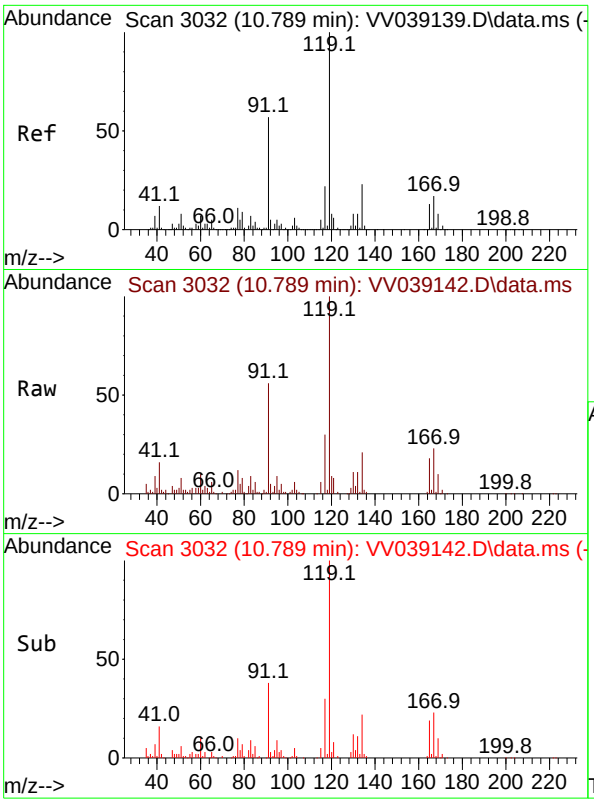


#82
4-Chlorotoluene
Concen: 4.695 ug/l
RT: 10.468 min Scan# 2932
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 122429

Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.5	43.6

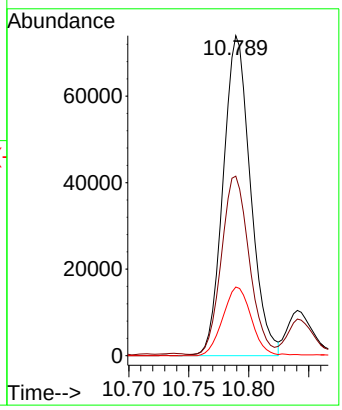




#83
tert-Butylbenzene
Concen: 4.586 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:119 Resp: 11731

Ion	Ratio	Lower	Upper
119	100		
91	56.4	28.5	85.6
134	22.5	11.5	34.4



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

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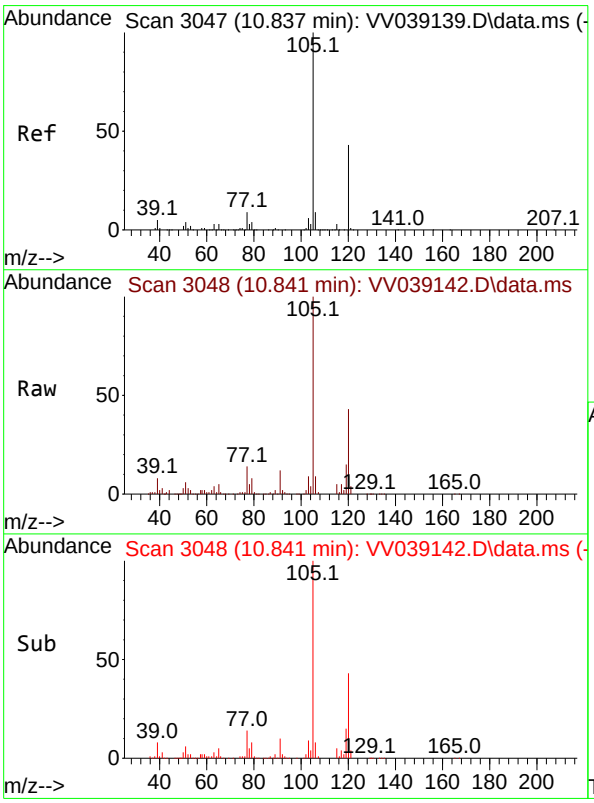
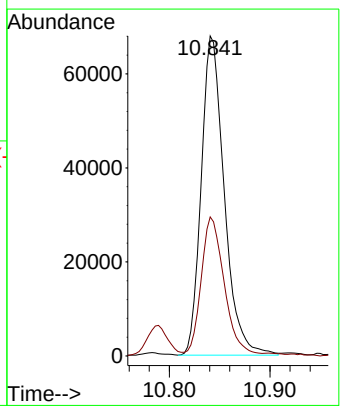
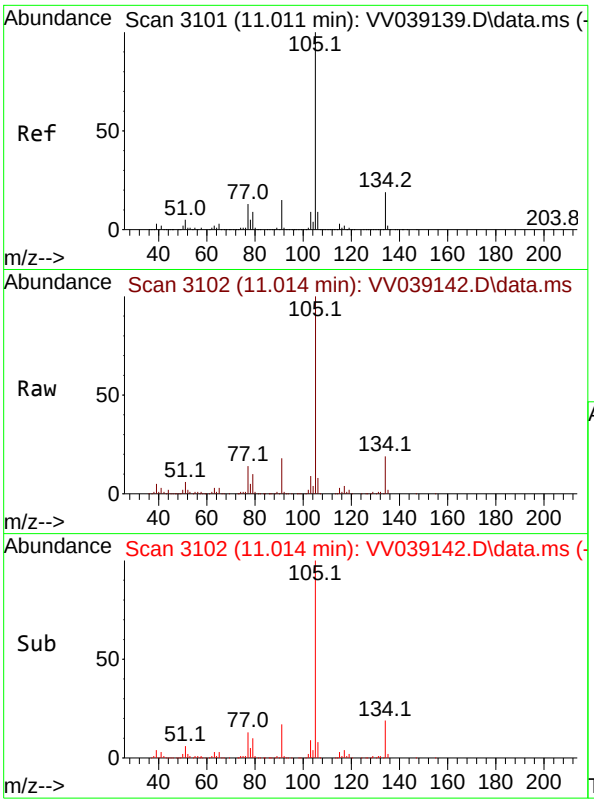


#84
1,2,4-Trimethylbenzene
Concen: 4.343 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 108157

Ion	Ratio	Lower	Upper
105	100		
120	42.0	22.4	67.2

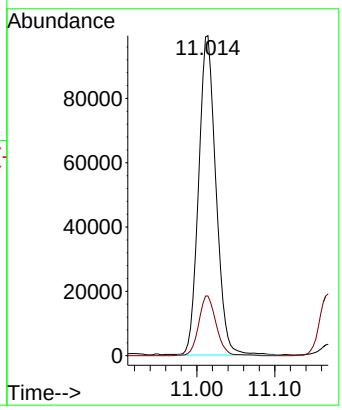




#85
sec-Butylbenzene
Concen: 4.525 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 15352

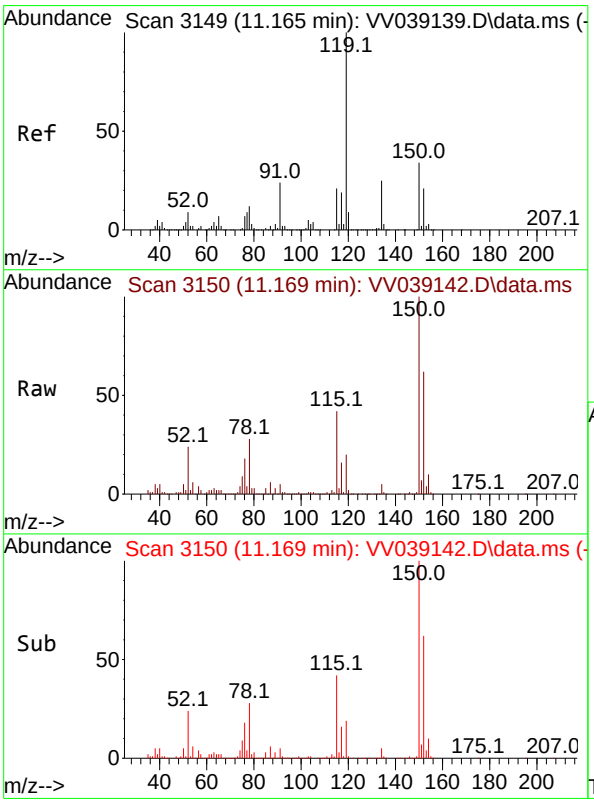
Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.6	28.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

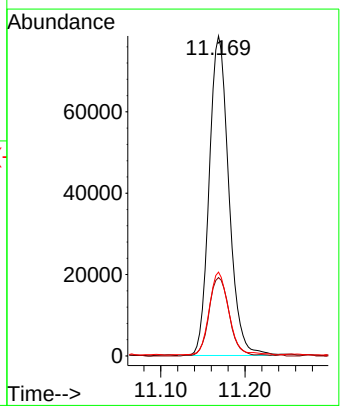
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

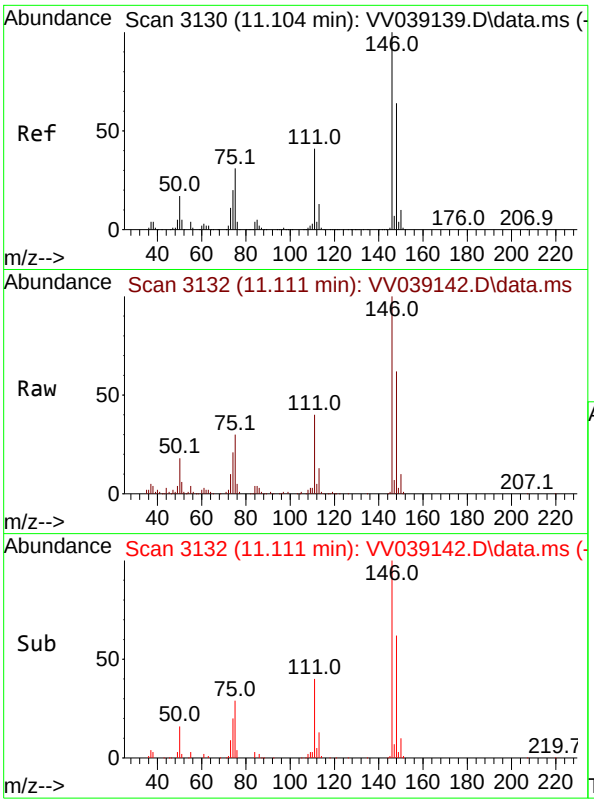


#86
p-Isopropyltoluene
Concen: 4.511 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:119 Resp: 127377

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	25.7	12.0	36.1

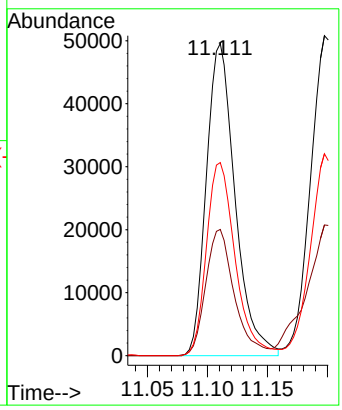




#87
1,3-Dichlorobenzene
Concen: 5.102 ug/l
RT: 11.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 8267

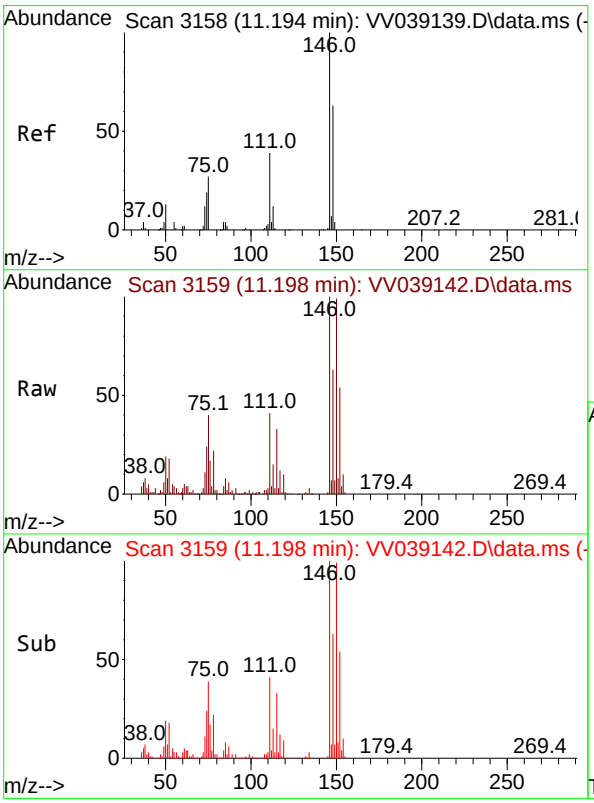
Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.9	62.8
148	62.1	31.8	95.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

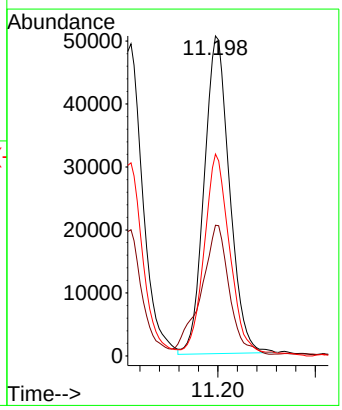
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

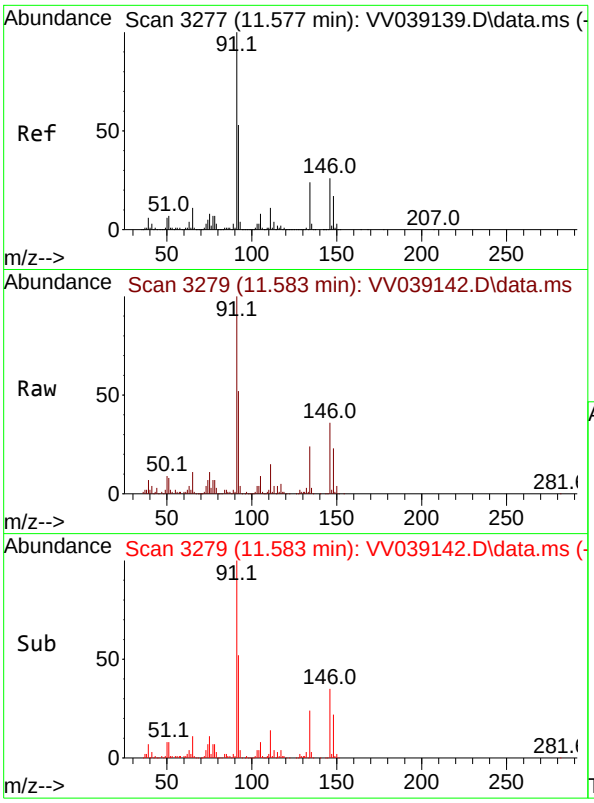


#88
1,4-Dichlorobenzene
Concen: 5.082 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 91001

Ion	Ratio	Lower	Upper
146	100		
111	45.9	20.3	60.8
148	65.7	31.4	94.2





#89
n-Butylbenzene
Concen: 4.443 ug/l
RT: 11.583 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

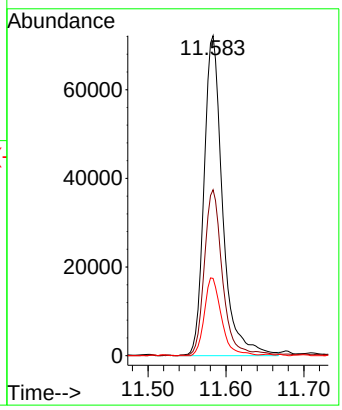
Tgt Ion: 91 Resp: 11982

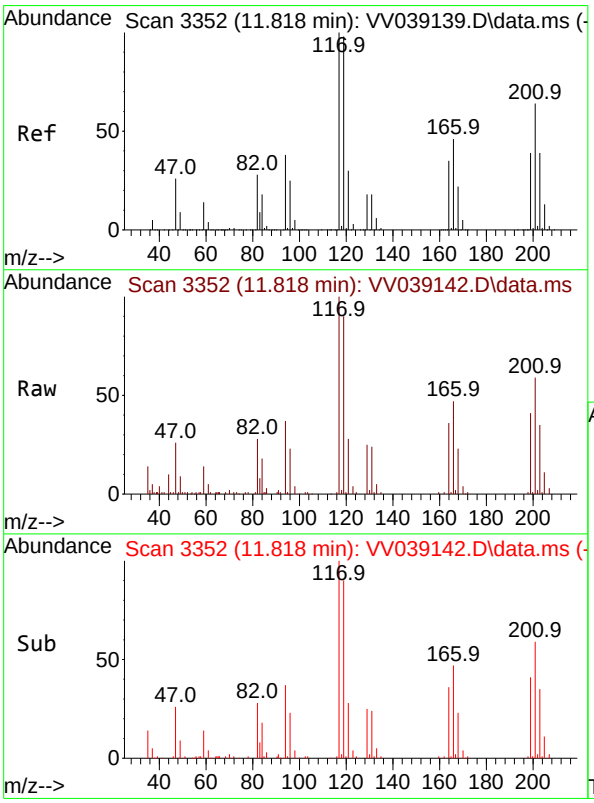
Ion	Ratio	Lower	Upper
91	100		
92	49.9	26.6	79.8
134	22.4	12.1	36.3

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

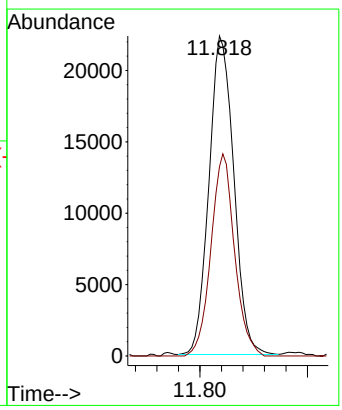


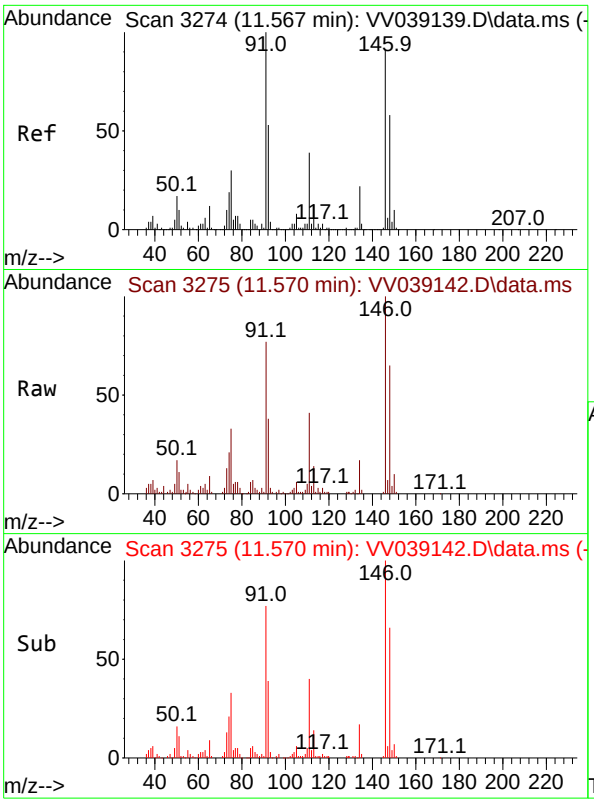


#90
Hexachloroethane
Concen: 5.143 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 35762

Ion	Ratio	Lower	Upper
117	100		
201	60.2	32.3	96.8

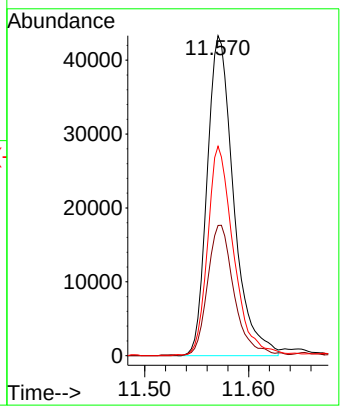




#91
1,2-Dichlorobenzene
Concen: 5.052 ug/l
RT: 11.570 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 7647

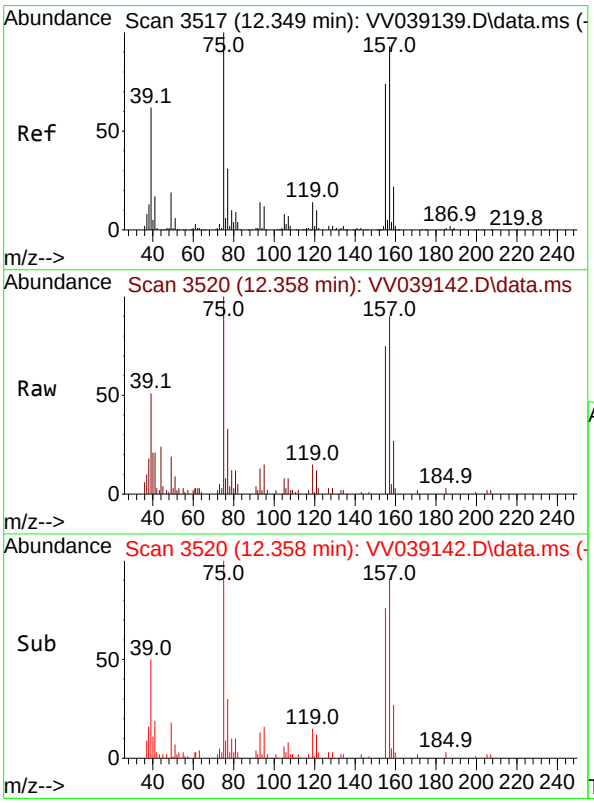
Ion	Ratio	Lower	Upper
146	100		
111	41.0	21.5	64.5
148	64.2	31.9	95.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

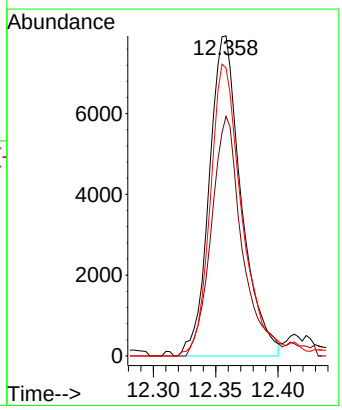
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

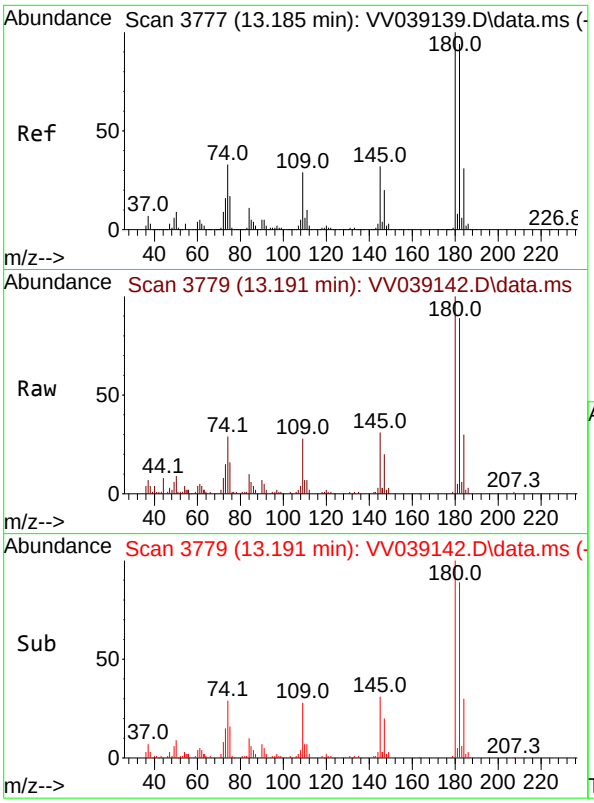


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.211 ug/l
RT: 12.358 min Scan# 3520
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 14163

Ion	Ratio	Lower	Upper
75	100		
155	71.9	38.6	115.8
157	90.2	49.5	148.3

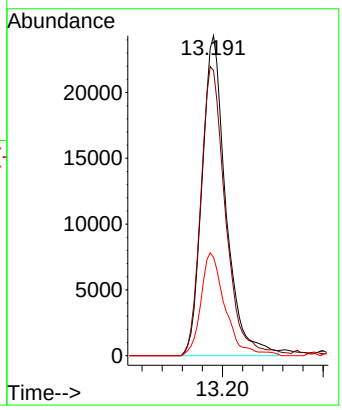




#93
1,2,4-Trichlorobenzene
Concen: 4.583 ug/l
RT: 13.191 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:180 Resp: 3977

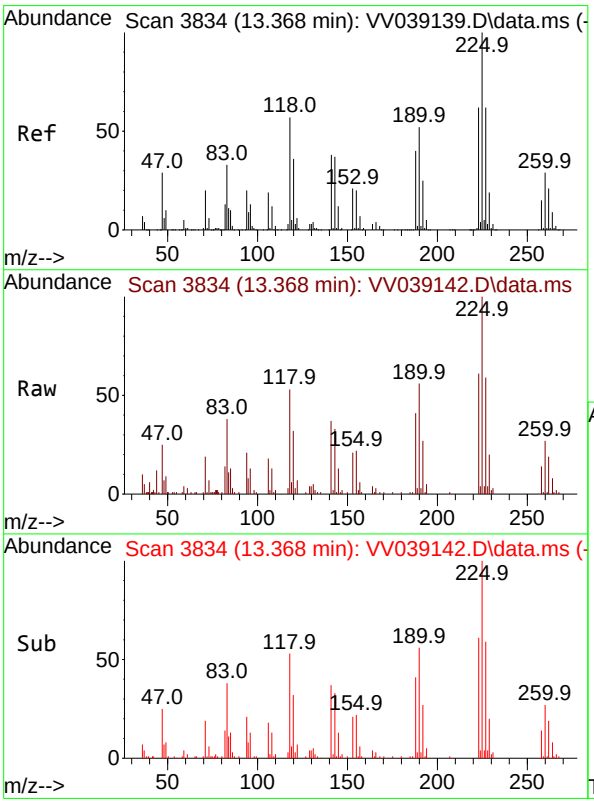
Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.1	141.4
145	32.8	16.3	48.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

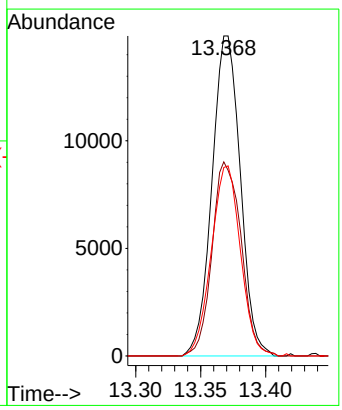
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

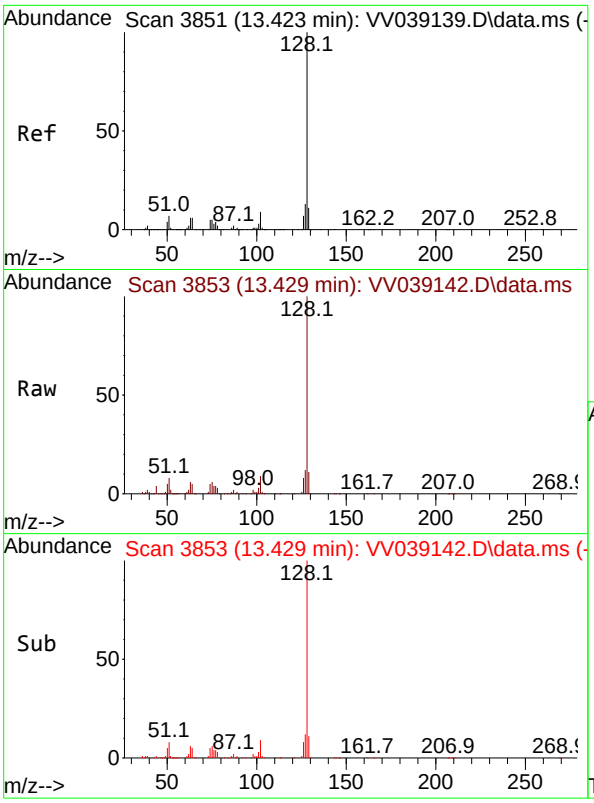


#94
Hexachlorobutadiene
Concen: 5.001 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:225 Resp: 22549

Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.6	94.7
227	61.2	31.8	95.4

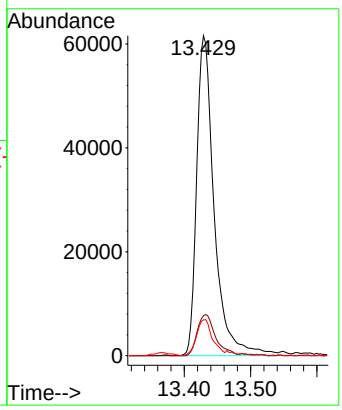




#95
Naphthalene
Concen: 4.062 ug/l
RT: 13.429 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:128 Resp: 11339

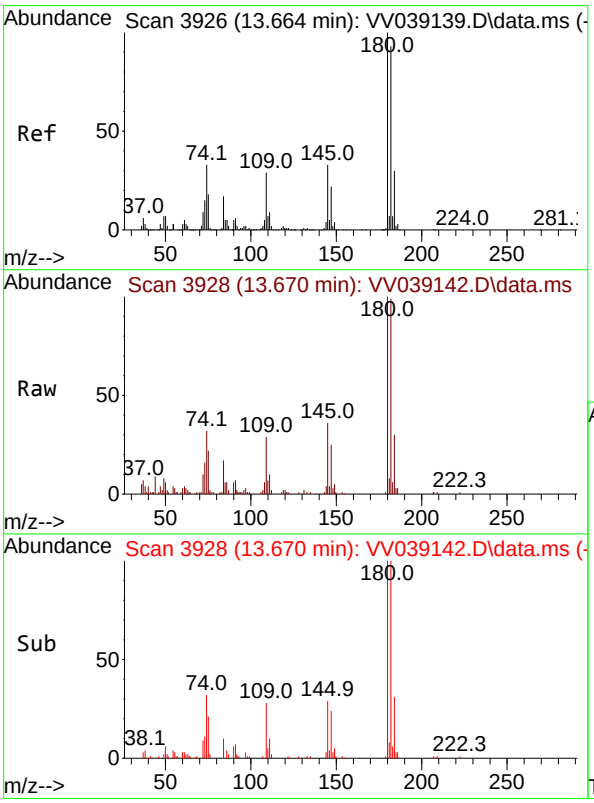
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.3	15.5
129	10.2	8.6	13.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

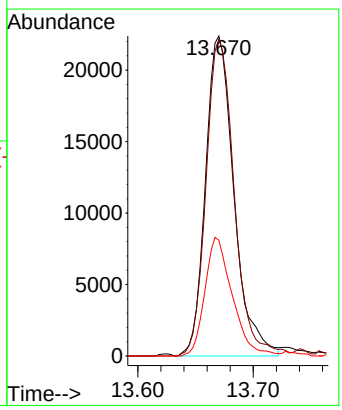
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.317 ug/l
RT: 13.670 min Scan# 3928
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:180 Resp: 38315

Ion	Ratio	Lower	Upper
180	100		
182	98.3	46.9	140.8
145	35.6	17.0	51.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	406498	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	735855	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	700418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	322677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 81 - 118		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 80 - 119		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 89 - 112		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 85 - 114		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	7593	1.180	ug/l	98
3) Chloromethane	1.230	50	7695	1.114	ug/l	99
4) Vinyl Chloride	1.297	62	8342	1.128	ug/l	98
6) Chloroethane	1.564	64	7440	0.673	ug/l	96
7) Trichlorofluoromethane	1.725	101	12570	1.174	ug/l	85
8) Diethyl Ether	1.921	74	4650	1.170	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.082	101	7630	1.198	ug/l	96
12) 1,1-Dichloroethene	2.085	96	7094	1.157	ug/l #	66
14) Allyl chloride	2.362	41	12383	1.131	ug/l	97
15) Acrylonitrile	2.683	53	23873	5.989	ug/l	96
16) Acetone	2.127	43	28927	3.224	ug/l	96
17) Carbon Disulfide	2.256	76	21708	1.158	ug/l	98
18) Methyl Acetate	2.391	43	9742	1.118	ug/l	98
19) Methyl tert-butyl Ether	2.715	73	21063	1.078	ug/l #	89
20) Methylene Chloride	2.458	84	16152	0.632	ug/l	90
21) trans-1,2-Dichloroethene	2.709	96	7797	1.195	ug/l	92
22) Diisopropyl ether	3.220	45	21620	1.032	ug/l #	34
23) Vinyl Acetate	3.204	43	91192	4.977	ug/l	99
24) 1,1-Dichloroethane	3.121	63	15790	1.233	ug/l #	94
25) 2-Butanone	3.921	43	22515m	4.862	ug/l	
26) 2,2-Dichloropropane	3.815	77	15492m	1.369	ug/l	
27) cis-1,2-Dichloroethene	3.834	96	8138	1.131	ug/l	91
28) Bromochloromethane	4.162	49	6039	1.068	ug/l #	53
29) Tetrahydrofuran	4.262	42	13621	4.619	ug/l #	65
30) Chloroform	4.288	83	15288	1.143	ug/l	96
32) 1,1,1-Trichloroethane	4.519	97	12926	1.116	ug/l	93
36) 1,1-Dichloropropene	4.764	75	9572m	1.063	ug/l	
37) Ethyl Acetate	4.030	43	12136m	1.098	ug/l	
38) Carbon Tetrachloride	4.735	117	13098m	1.207	ug/l	
39) Methylcyclohexane	6.050	83	9159	0.848	ug/l	91
40) Benzene	5.027	78	28487	0.978	ug/l	98
41) Methacrylonitrile	4.223	41	2717m	2.427	ug/l	
42) 1,2-Dichloroethane	5.059	62	10892	1.067	ug/l	95
43) Isopropyl Acetate	5.236	43	12786m	0.840	ug/l	
44) Trichloroethene	5.850	130	6408	0.953	ug/l	84
45) 1,2-Dichloropropane	6.104	63	6838	0.945	ug/l	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	6.249	93	5835	1.053	ug/l		89
47) Bromodichloromethane	6.439	83	12206	1.066	ug/l	#	90
48) Methyl methacrylate	6.371	41	7232m	1.038	ug/l		
49) 1,4-Dioxane	6.333	88	2721m	24.855	ug/l		
51) 4-Methyl-2-Pentanone	7.165	43	33797	3.472	ug/l		96
52) Toluene	7.326	92	13265	0.786	ug/l		87
53) t-1,3-Dichloropropene	7.606	75	8060	0.807	ug/l		90
54) cis-1,3-Dichloropropene	6.973	75	8754	0.794	ug/l	#	93
55) 1,1,2-Trichloroethane	7.776	97	8140	1.075	ug/l		91
56) Ethyl methacrylate	7.747	69	7455m	0.829	ug/l		
57) 1,3-Dichloropropane	7.956	76	11732	0.982	ug/l		94
58) 2-Chloroethyl Vinyl ether	6.841	63	10011	11.289	ug/l		98
59) 2-Hexanone	8.091	43	17015	4.307	ug/l		98
60) Dibromochloromethane	8.172	129	9122	1.057	ug/l		87
61) 1,2-Dibromoethane	8.288	107	7129	0.921	ug/l		90
64) Tetrachloroethene	7.899	164	5814	0.991	ug/l		90
65) Chlorobenzene	8.812	112	20007	1.025	ug/l	#	88
66) 1,1,1,2-Tetrachloroethane	8.902	131	7603	1.079	ug/l	#	61
67) Ethyl Benzene	8.947	91	24171	0.818	ug/l		94
68) m/p-Xylenes	9.072	106	16239	1.425	ug/l		98
69) o-Xylene	9.477	106	7250	0.718	ug/l		79
70) Styrene	9.503	104	11594	2.083	ug/l	#	80
71) Bromoform	9.667	173	5558	1.009	ug/l	#	94
73) Isopropylbenzene	9.860	105	20820	0.890	ug/l		98
74) N-amyl acetate	9.747	43	6654	0.713	ug/l	#	91
75) 1,1,2,2-Tetrachloroethane	10.169	83	12746	1.243	ug/l		95
76) 1,2,3-Trichloropropane	10.207	75	8871	1.207	ug/l		100
77) Bromobenzene	10.159	156	6311	1.039	ug/l		93
78) n-propylbenzene	10.284	91	24996	0.877	ug/l		96
79) 2-Chlorotoluene	10.355	91	13640	0.800	ug/l		89
80) 1,3,5-Trimethylbenzene	10.471	105	15886	0.817	ug/l		96
82) 4-Chlorotoluene	10.474	91	15363	0.777	ug/l		91
83) tert-Butylbenzene	10.789	119	18552	0.956	ug/l		99
84) 1,2,4-Trimethylbenzene	10.847	105	15048	0.797	ug/l		95
85) sec-Butylbenzene	11.014	105	23268	0.904	ug/l		98
86) p-Isopropyltoluene	11.168	119	18549	0.866	ug/l		86
87) 1,3-Dichlorobenzene	11.117	146	12747	1.037	ug/l		97
88) 1,4-Dichlorobenzene	11.201	146	16279m	1.199	ug/l		
89) n-Butylbenzene	11.586	91	17079	0.835	ug/l		94
90) Hexachloroethane	11.818	117	6736	1.277	ug/l		94
91) 1,2-Dichlorobenzene	11.577	146	12486	1.088	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.361	75	3071	0.690	ug/l		75
93) 1,2,4-Trichlorobenzene	13.197	180	6637	1.008	ug/l		99
94) Hexachlorobutadiene	13.368	225	4406	1.288	ug/l		95
95) Naphthalene	13.438	128	19706m	0.931	ug/l		
96) 1,2,3-Trichlorobenzene	13.676	180	7184	1.067	ug/l		97

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

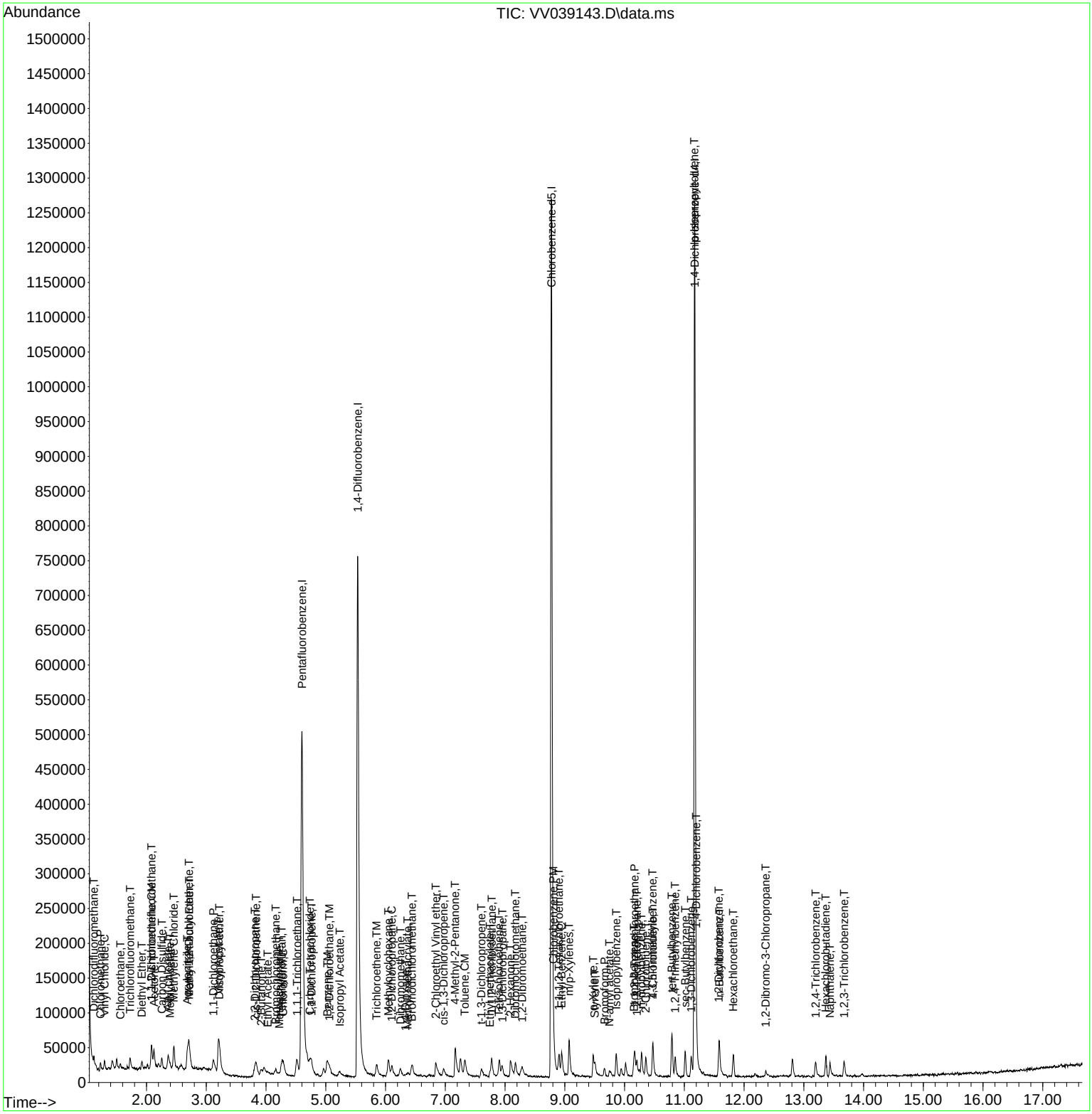
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

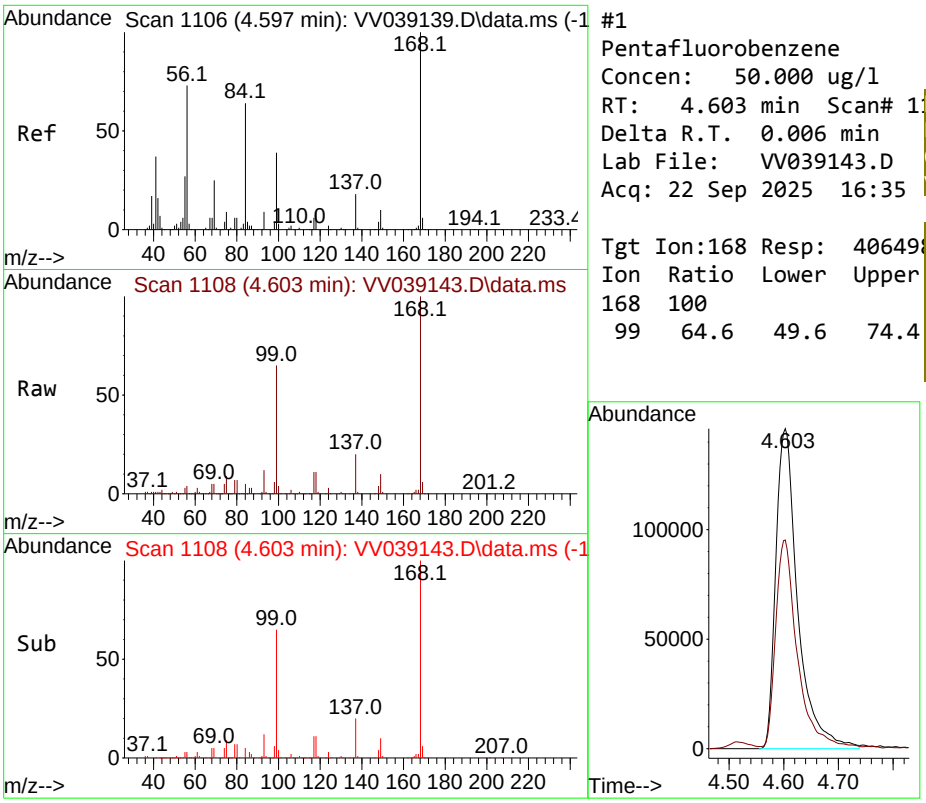
Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:168 Resp: 40649

Ion	Ratio	Lower	Upper
168	100		
99	64.6	49.6	74.4

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
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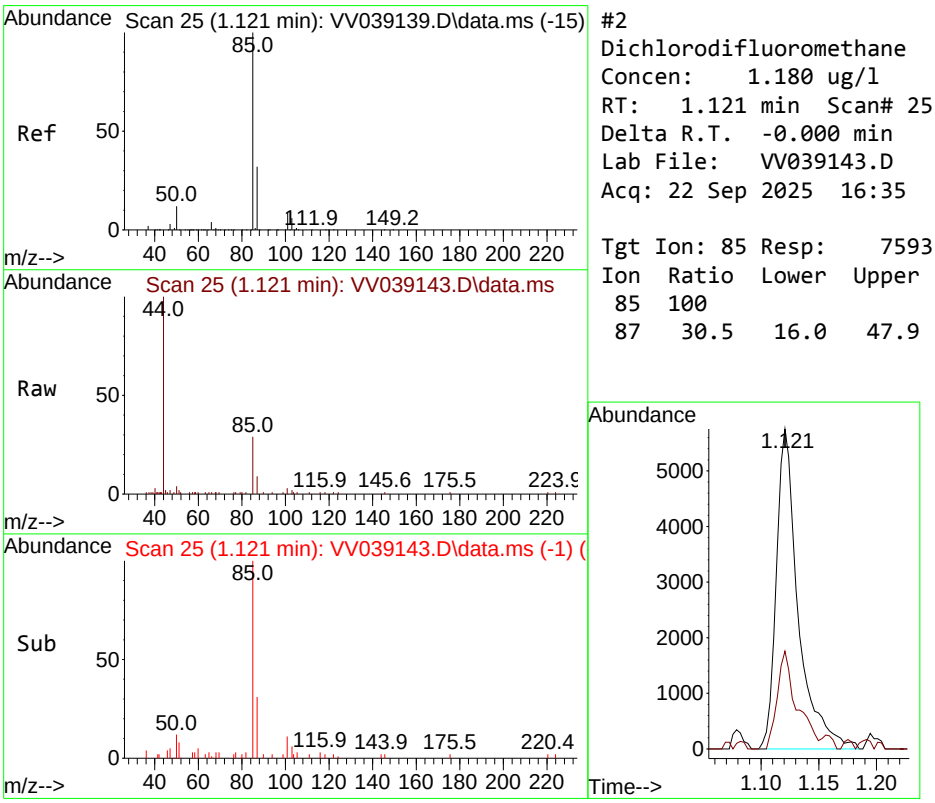
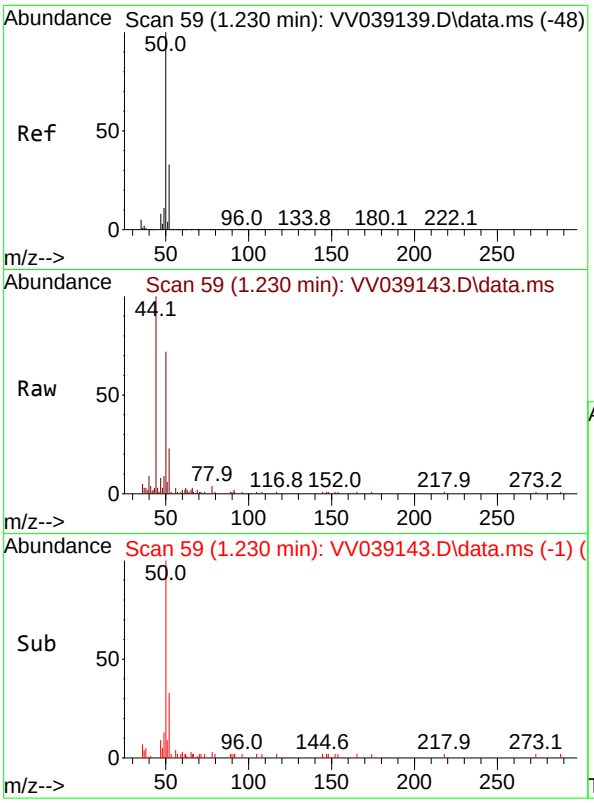


#2
Dichlorodifluoromethane
Concen: 1.180 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 85 Resp: 7593

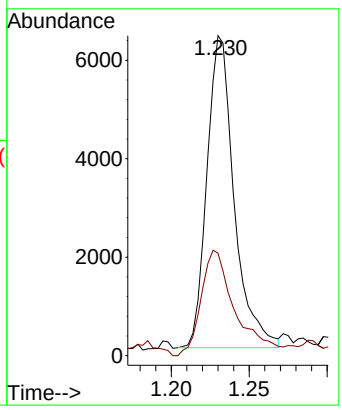
Ion	Ratio	Lower	Upper
85	100		
87	30.5	16.0	47.9



#3
Chloromethane
Concen: 1.114 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 50 Resp: 769

Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.0	39.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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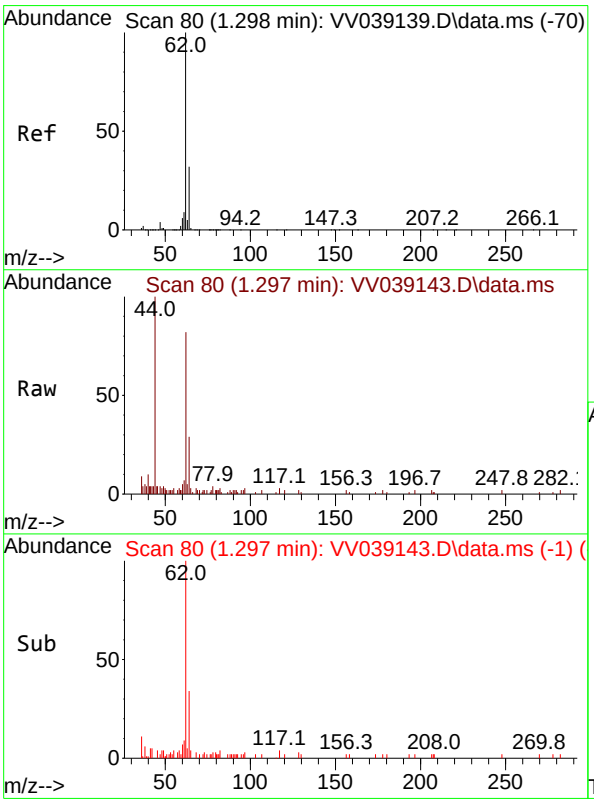
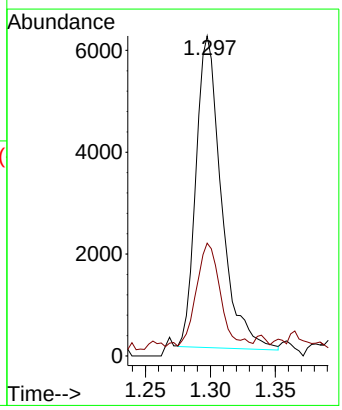
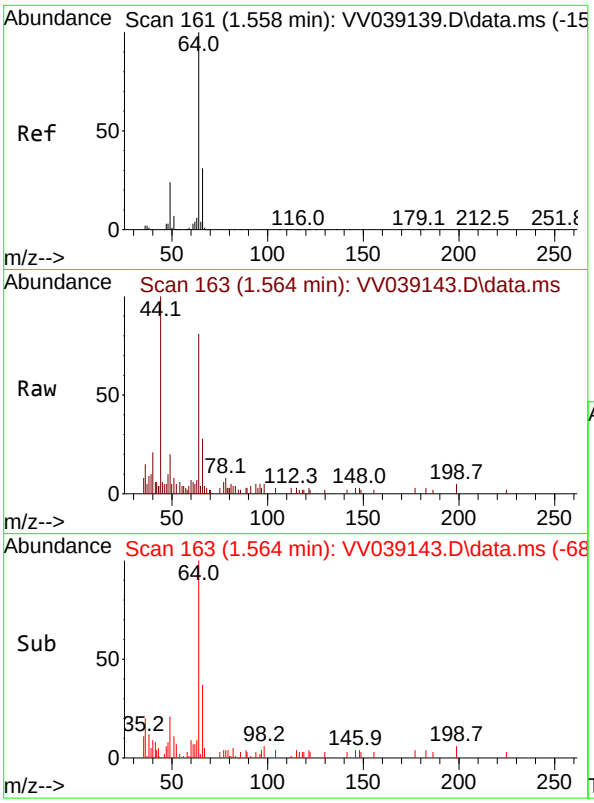


#4
Vinyl Chloride
Concen: 1.128 ug/l
RT: 1.297 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 62 Resp: 8342

Ion	Ratio	Lower	Upper
62	100		
64	33.2	25.6	38.4

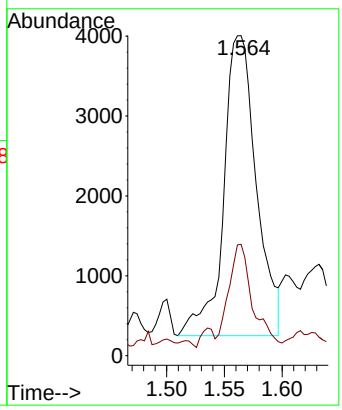




#6
Chloroethane
Concen: 0.673 ug/l
RT: 1.564 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 64 Resp: 744

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	36.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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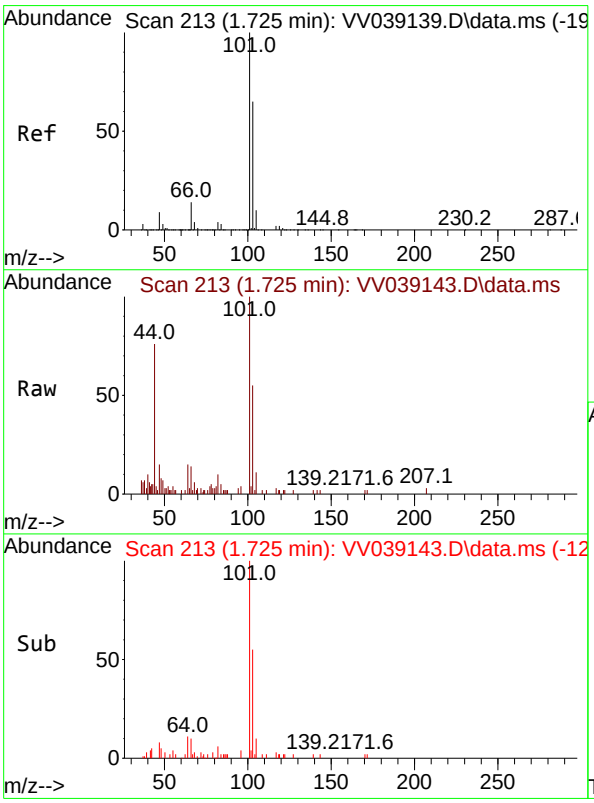
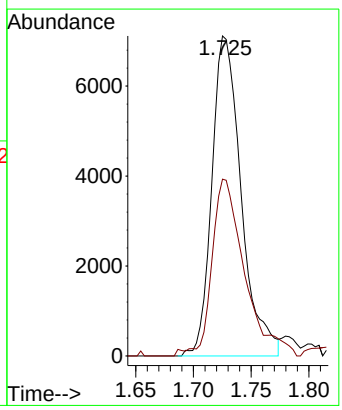
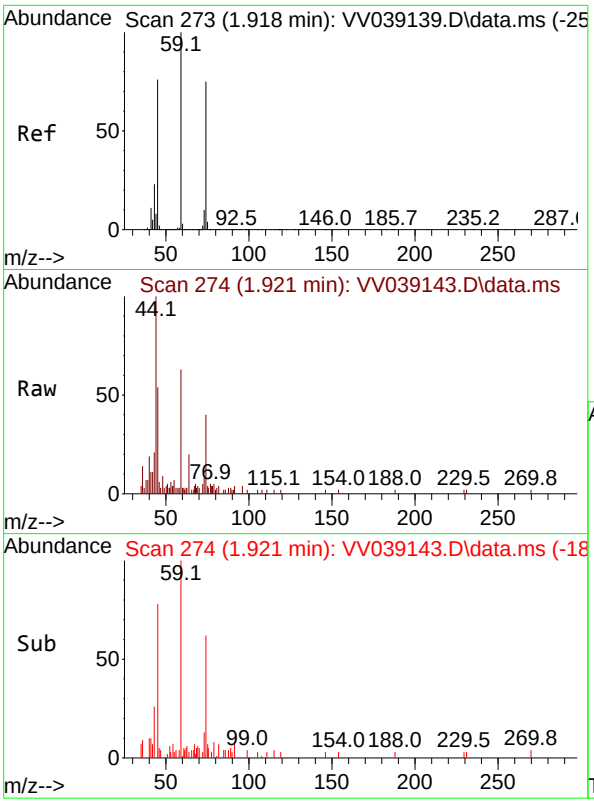


#7
Trichlorofluoromethane
Concen: 1.174 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:101 Resp: 12570

Ion	Ratio	Lower	Upper
101	100		
103	53.2	52.0	78.0

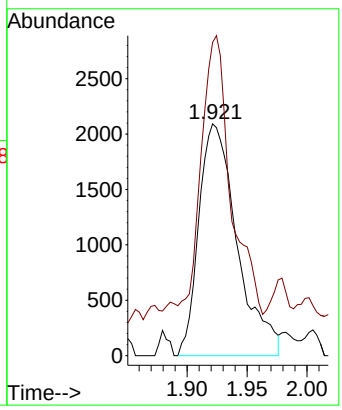




#8
Diethyl Ether
Concen: 1.170 ug/l
RT: 1.921 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 74 Resp: 465

Ion	Ratio	Lower	Upper
74	100		
45	107.4	49.6	148.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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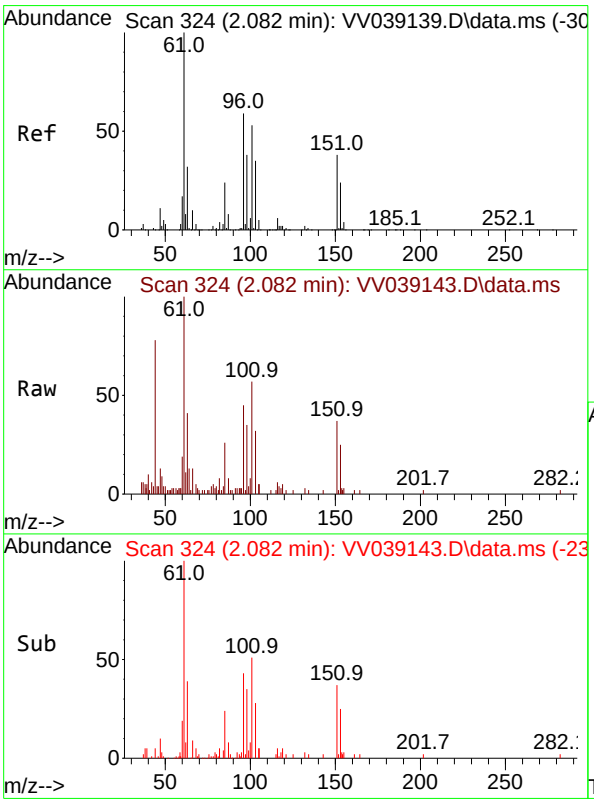
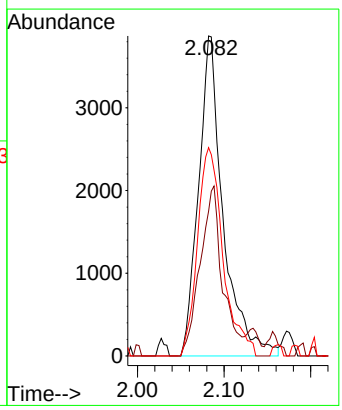
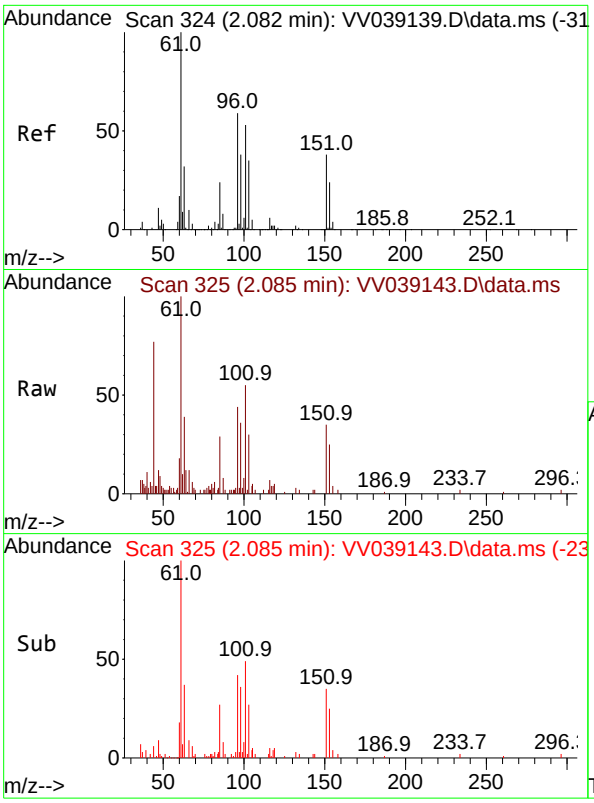


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.198 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:101 Resp: 7630

Ion	Ratio	Lower	Upper
101	100		
85	48.1	36.2	54.2
151	67.5	56.3	84.5





#12
1,1-Dichloroethene
Concen: 1.157 ug/l
RT: 2.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 96 Resp: 709

Ion	Ratio	Lower	Upper
96	100		
61	225.5	136.0	204.0#
98	77.5	51.0	76.6#

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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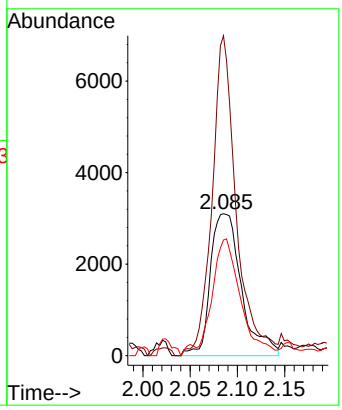
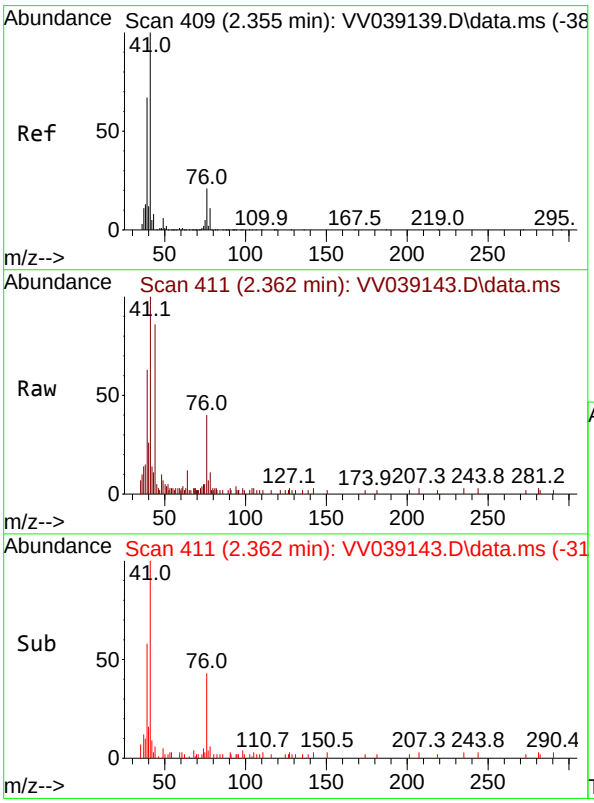
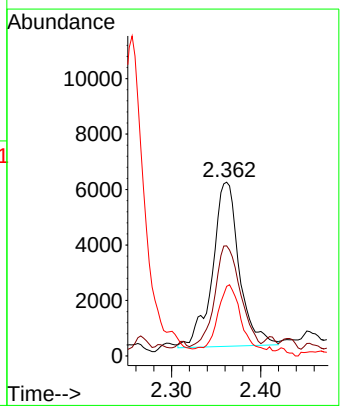


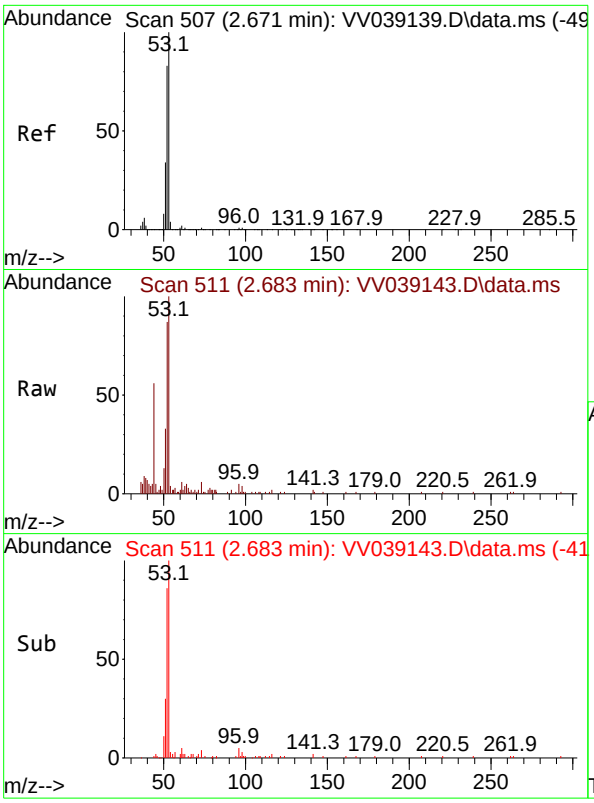


#14
Allyl chloride
Concen: 1.131 ug/l
RT: 2.362 min Scan# 411
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 12383

Ion	Ratio	Lower	Upper
41	100		
39	60.4	51.0	76.6
76	35.0	28.2	42.4

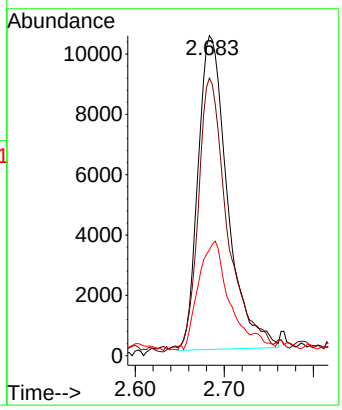




#15
Acrylonitrile
Concen: 5.989 ug/l
RT: 2.683 min Scan# 5
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 53 Resp: 2387

Ion	Ratio	Lower	Upper
53	100		
52	87.4	66.1	99.1
51	35.1	28.5	42.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
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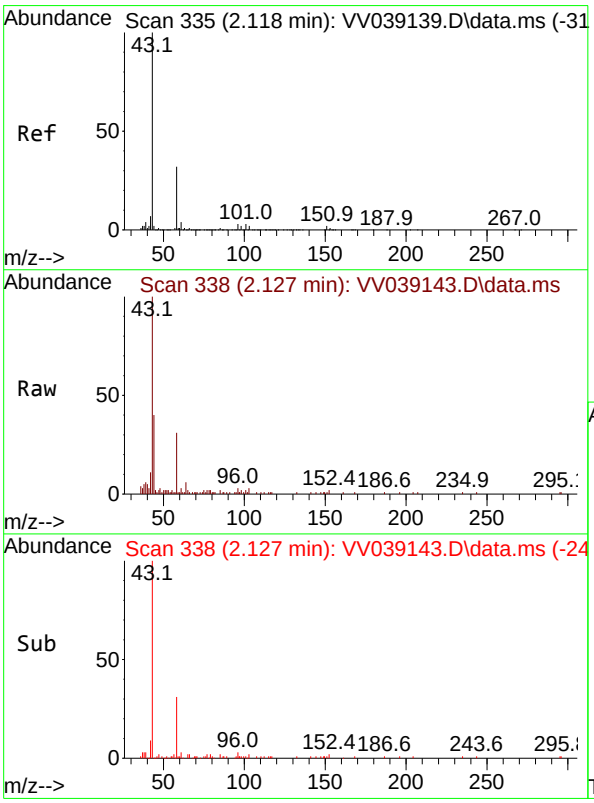
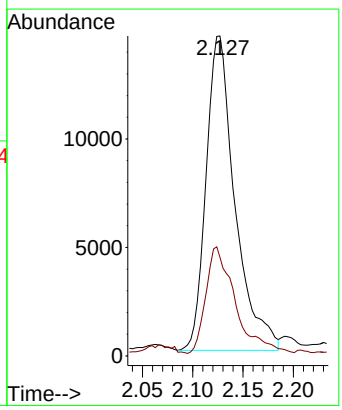
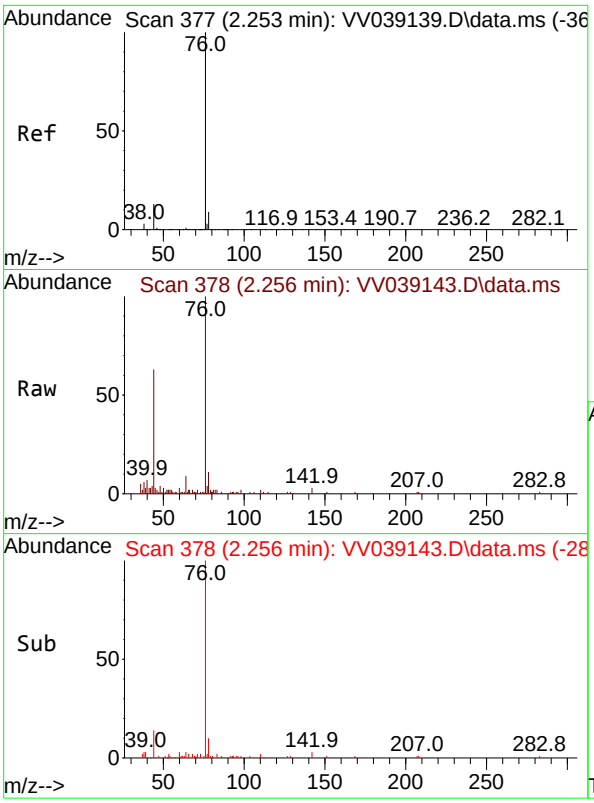


#16
Acetone
Concen: 3.224 ug/l
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 28927

Ion	Ratio	Lower	Upper
43	100		
58	30.2	25.8	38.6

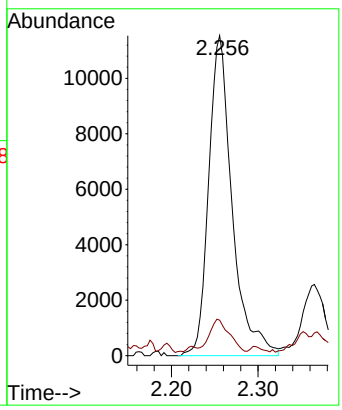




#17
Carbon Disulfide
Concen: 1.158 ug/l
RT: 2.256 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 76 Resp: 2170

Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.4	11.0



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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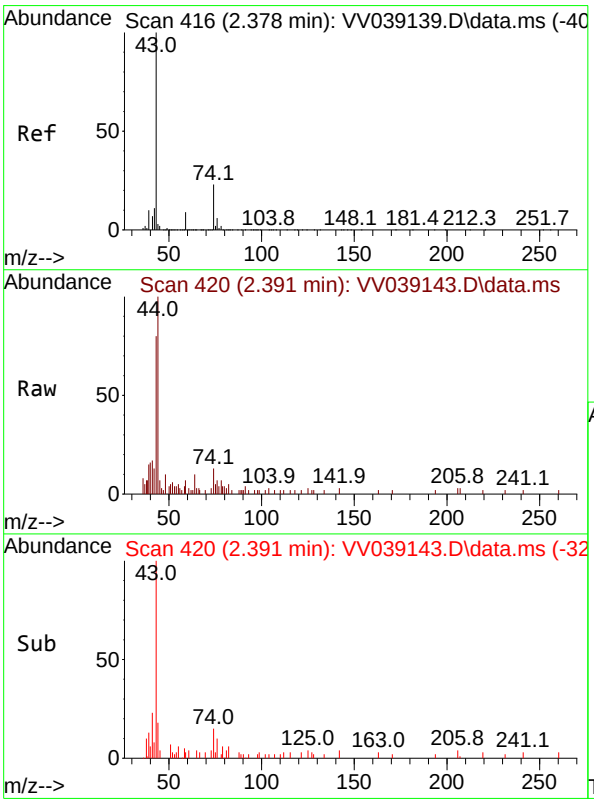
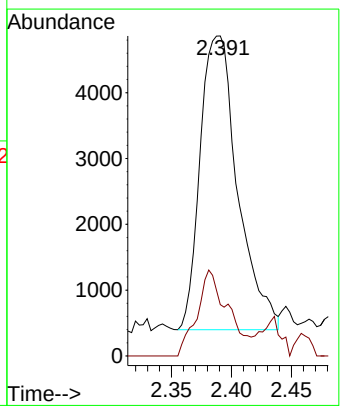
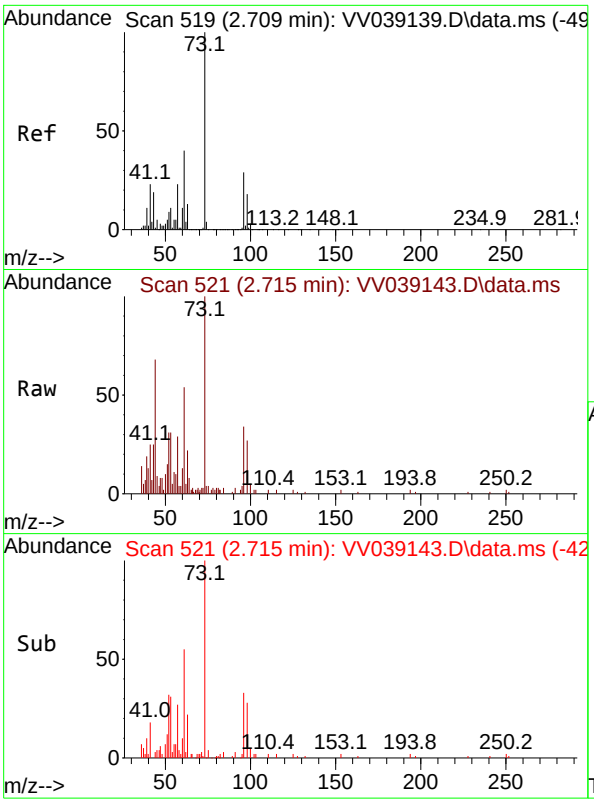


#18
Methyl Acetate
Concen: 1.118 ug/l
RT: 2.391 min Scan# 420
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 9742

Ion	Ratio	Lower	Upper
43	100		
74	24.3	18.6	27.8





#19
Methyl tert-butyl Ether
Concen: 1.078 ug/l
RT: 2.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 73 Resp: 2106

Ion	Ratio	Lower	Upper
73	100		
57	28.1	18.2	27.4

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations
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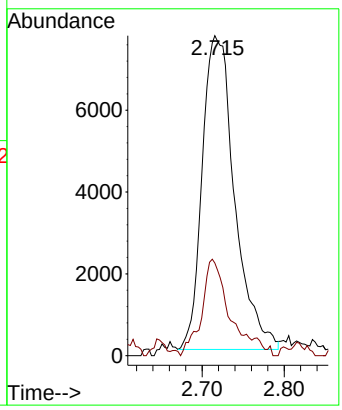
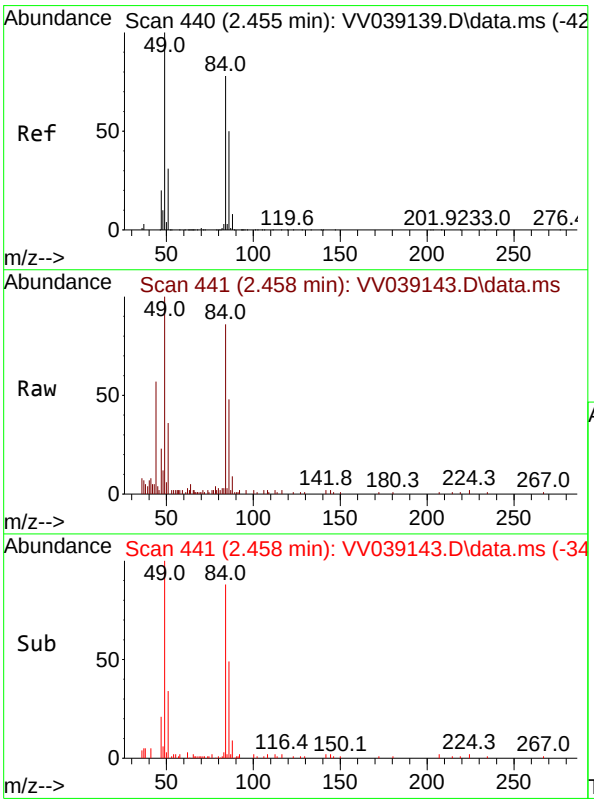
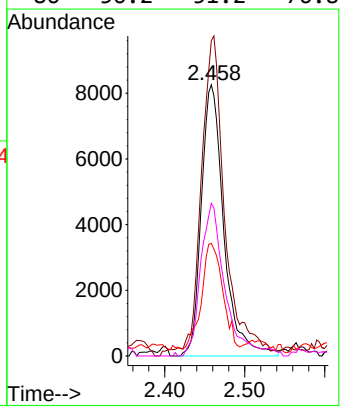


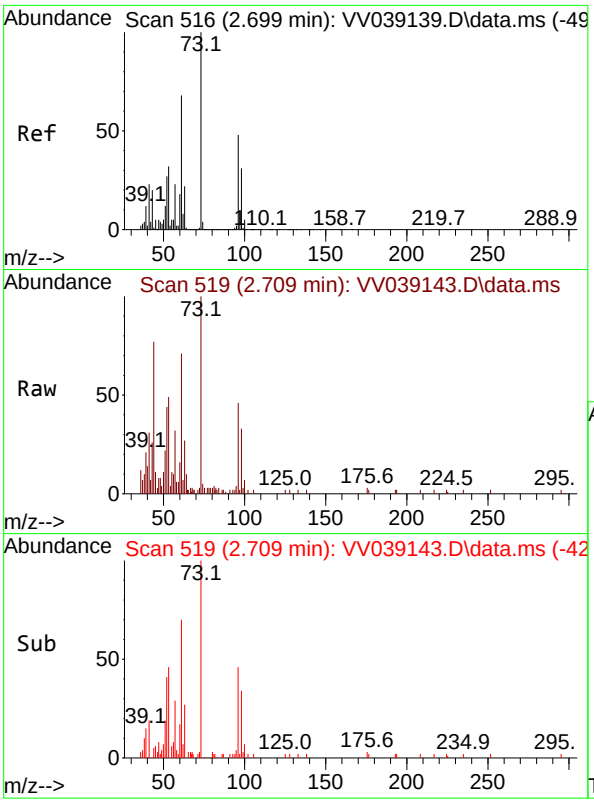


#20
Methylene Chloride
Concen: 0.632 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 84 Resp: 16152

Ion	Ratio	Lower	Upper
84	100		
49	114.5	102.8	154.2
51	38.2	31.9	47.9
86	56.2	51.2	76.8

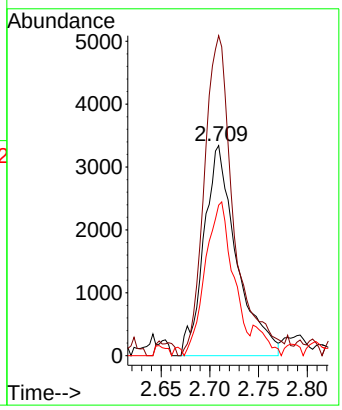




#21
trans-1,2-Dichloroethene
Concen: 1.195 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 96 Resp: 779

Ion	Ratio	Lower	Upper
96	100		
61	152.3	112.8	169.2
98	68.3	51.1	76.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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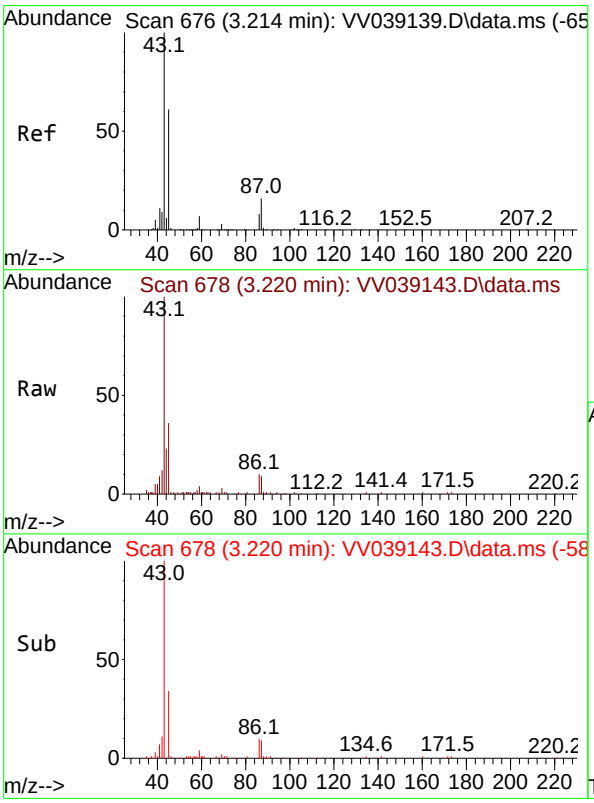
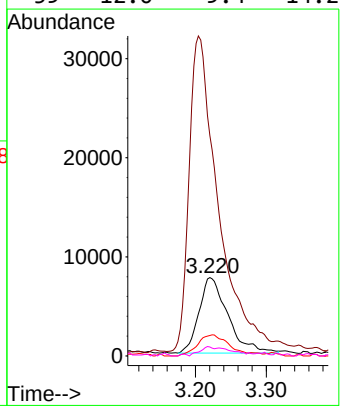
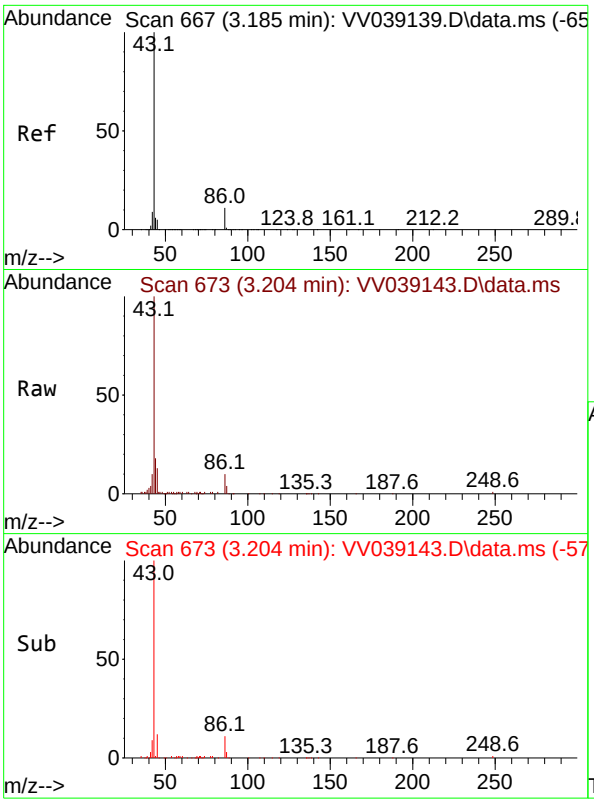


#22
Diisopropyl ether
Concen: 1.032 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 45 Resp: 21620

Ion	Ratio	Lower	Upper
45	100		
43	273.0	130.9	196.3#
87	27.1	21.1	31.7
59	12.0	9.4	14.2





#23
Vinyl Acetate
Concen: 4.977 ug/l
RT: 3.204 min Scan# 6
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 9119

Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.4	12.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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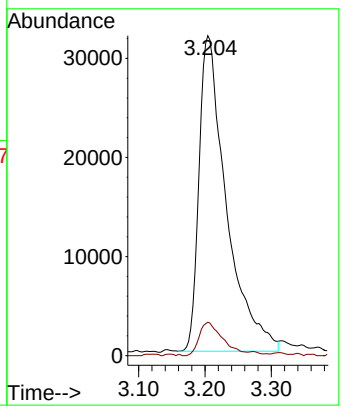
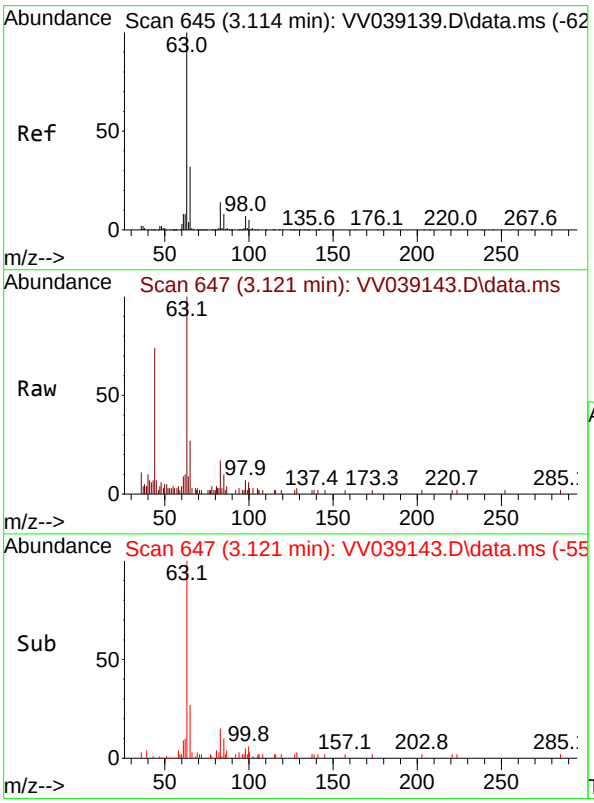
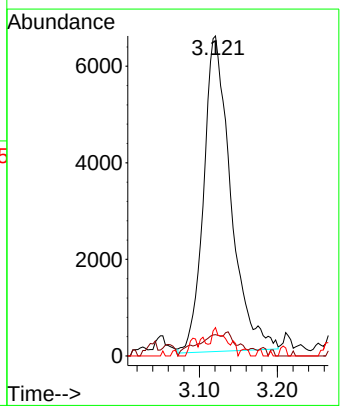


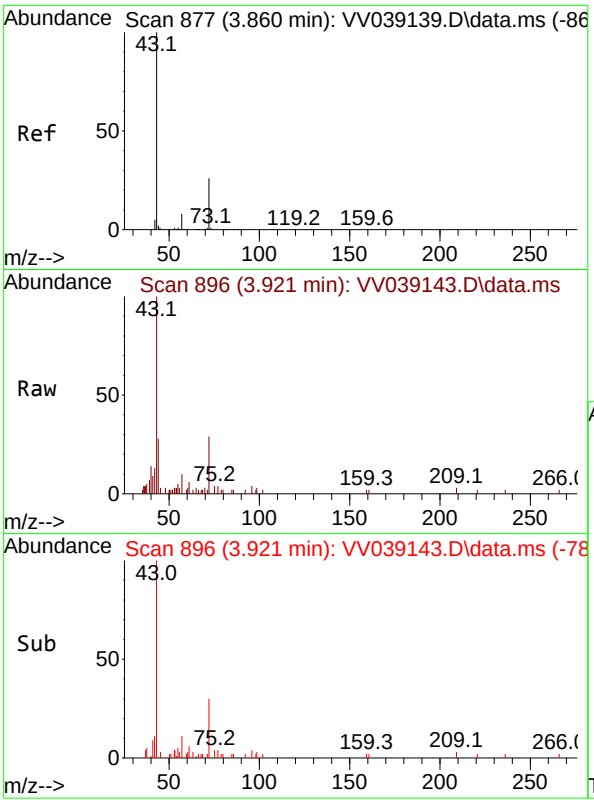


#24
1,1-Dichloroethane
Concen: 1.233 ug/l
RT: 3.121 min Scan# 647
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 15790

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	9.0	2.2	6.6#

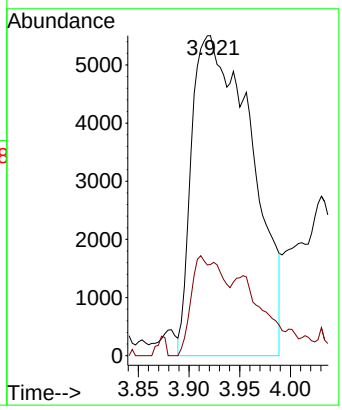




#25
2-Butanone
Concen: 4.862 ug/l m
RT: 3.921 min Scan# 8
Delta R.T. 0.061 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 2251

Ion	Ratio	Lower	Upper
43	100		
72	28.5	21.0	31.6



Instrument :
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ClientSampleId :
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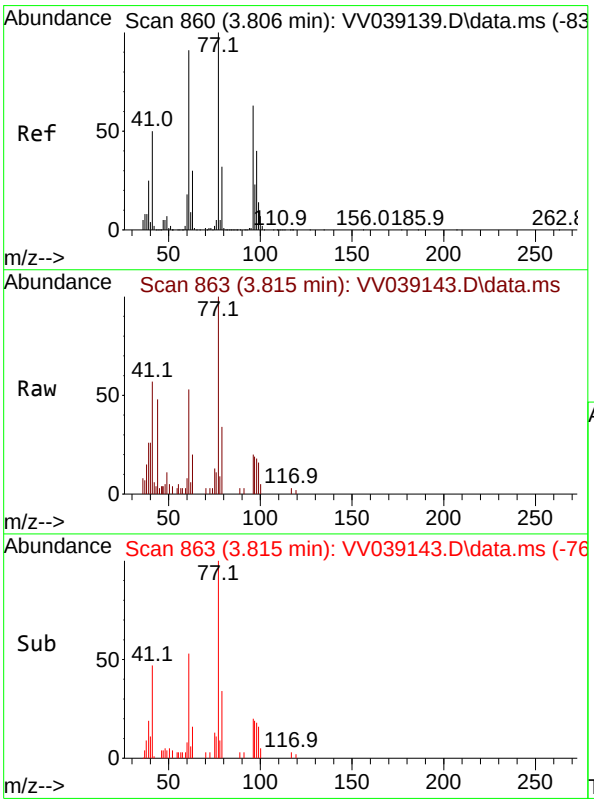
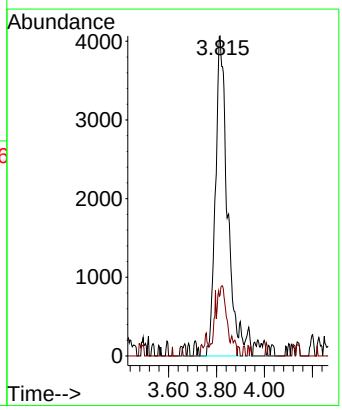
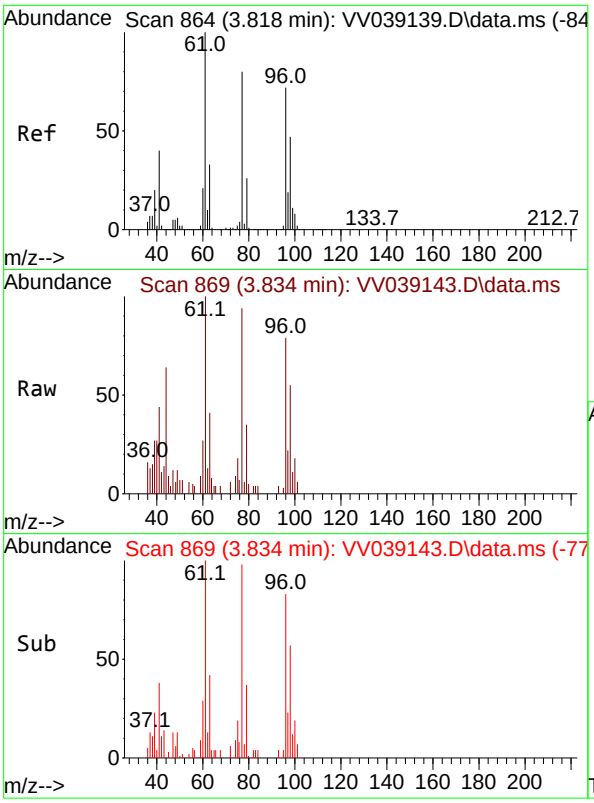


#26
2,2-Dichloropropane
Concen: 1.369 ug/l m
RT: 3.815 min Scan# 863
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 77 Resp: 15492

Ion	Ratio	Lower	Upper
77	100		
97	0.3	11.6	34.7#





#27
cis-1,2-Dichloroethene
Concen: 1.131 ug/l
RT: 3.834 min Scan# 8
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 96 Resp: 813

Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	286.4
98	46.3	0.0	126.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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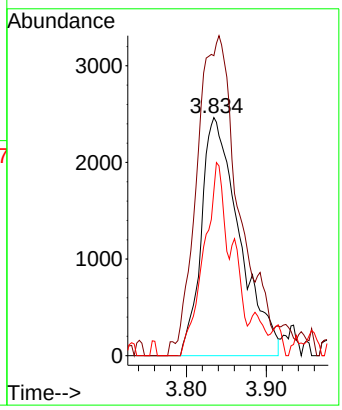
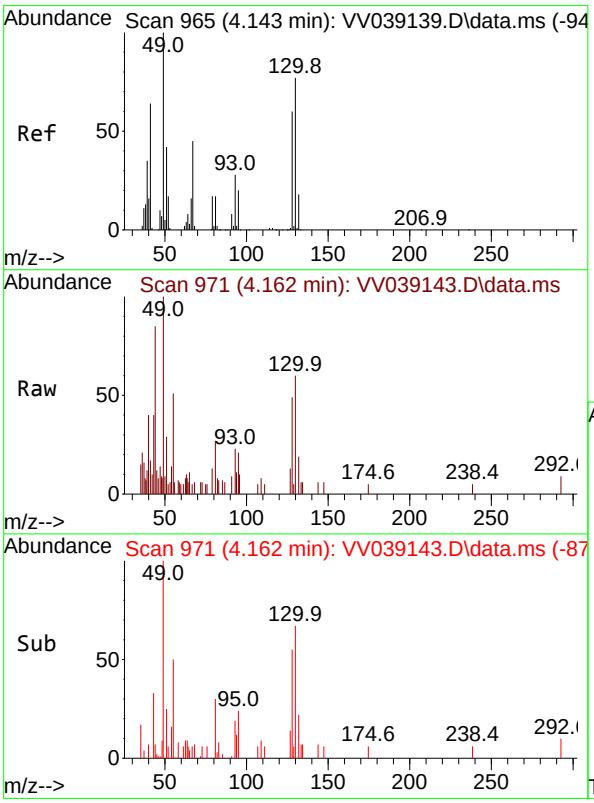
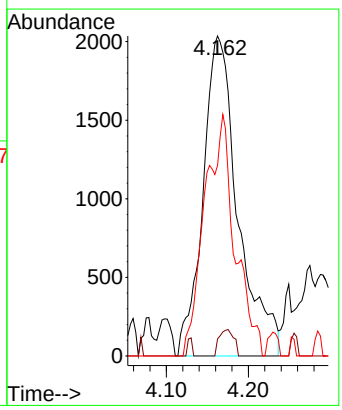


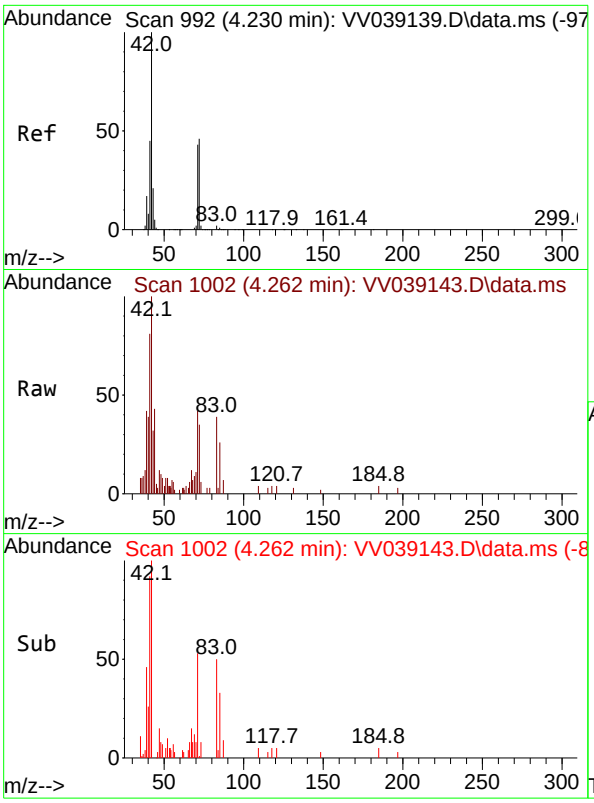


#28
Bromochloromethane
Concen: 1.068 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 49 Resp: 6039

Ion	Ratio	Lower	Upper
49	100		
129	3.5	0.0	4.2
130	34.4	60.2	90.2#

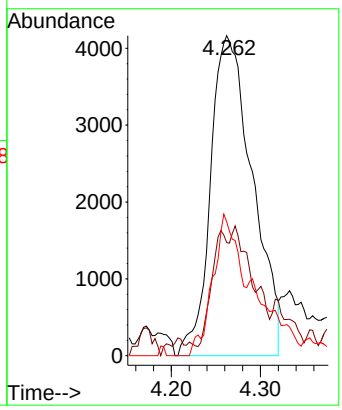




#29
Tetrahydrofuran
Concen: 4.619 ug/l
RT: 4.262 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 42 Resp: 1362

Ion	Ratio	Lower	Upper
42	100		
72	14.9	36.3	54.5#
71	28.2	34.3	51.5#



Instrument :
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ClientSampleId :
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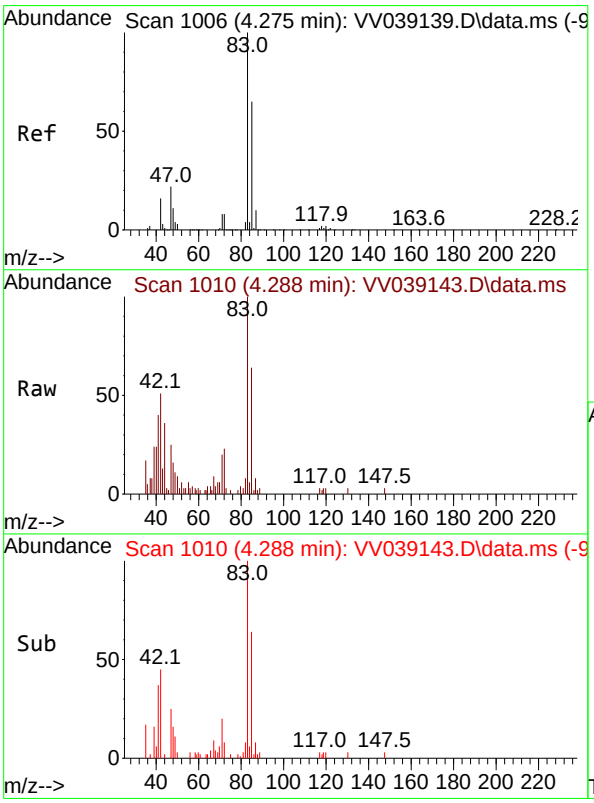
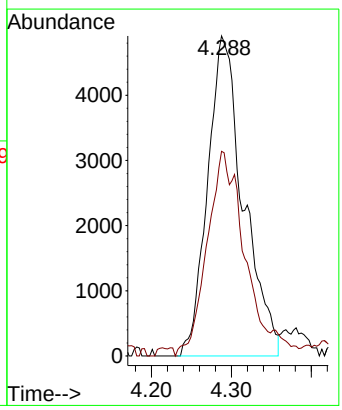
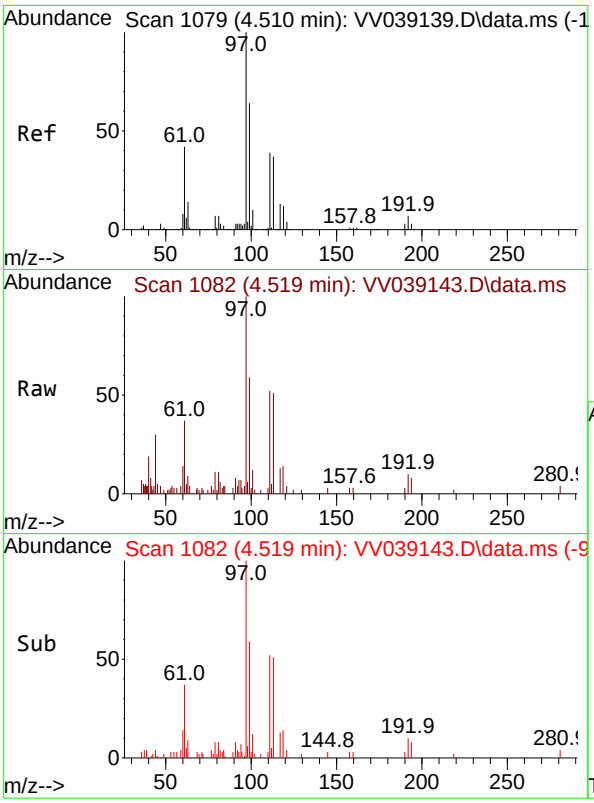


#30
Chloroform
Concen: 1.143 ug/l
RT: 4.288 min Scan# 1010
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 15288

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.1	78.1

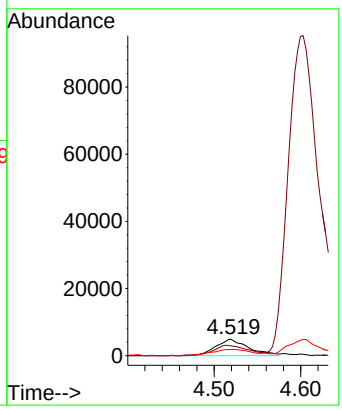




#32
1,1,1-Trichloroethane
Concen: 1.116 ug/l
RT: 4.519 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 97 Resp: 1292

Ion	Ratio	Lower	Upper
97	100		
99	66.0	49.6	74.4
61	37.6	34.5	51.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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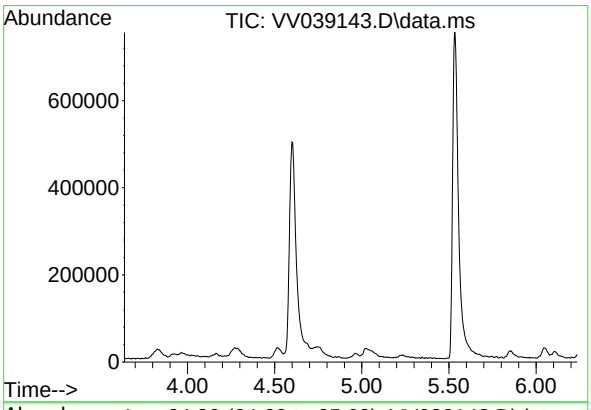
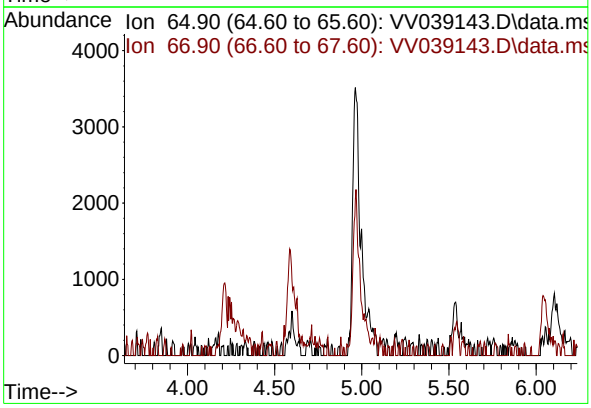


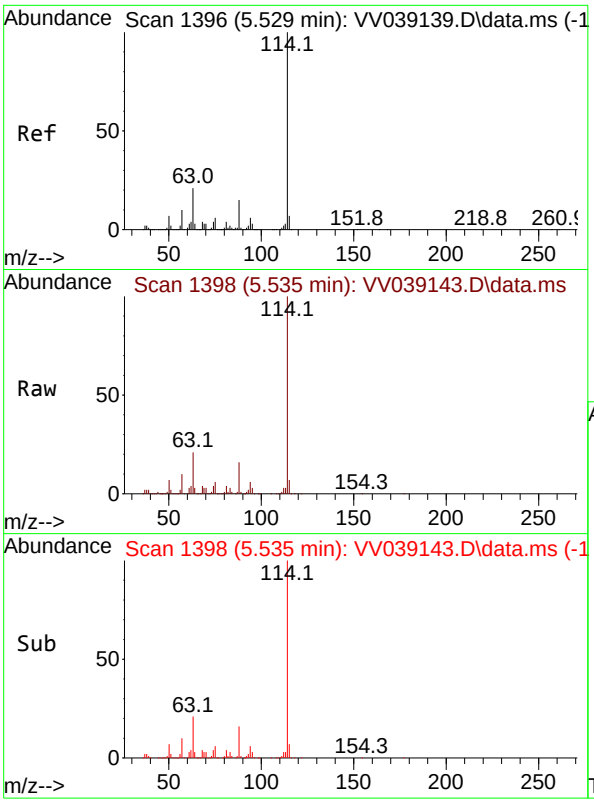
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 4.94 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	53.5





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:114 Resp: 73585

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	42.6
88	15.6	0.0	30.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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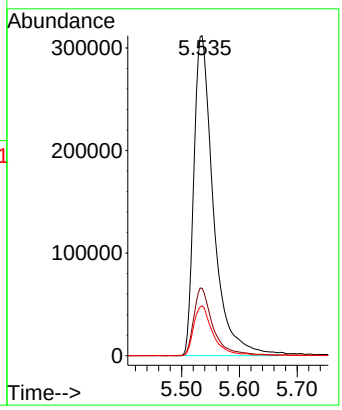
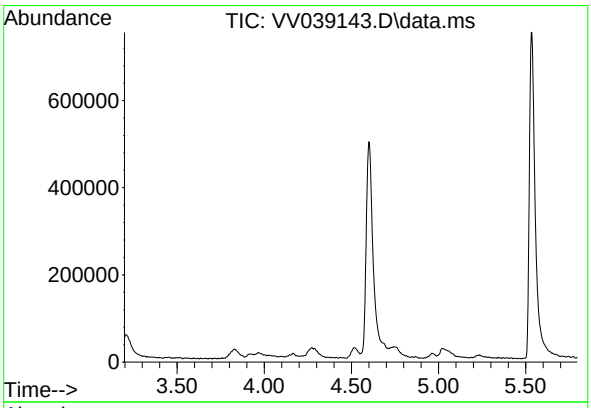


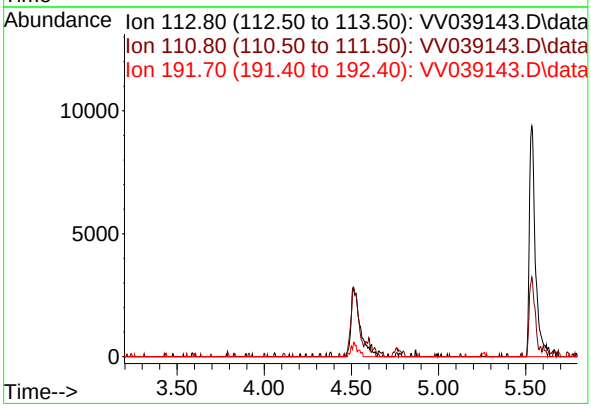


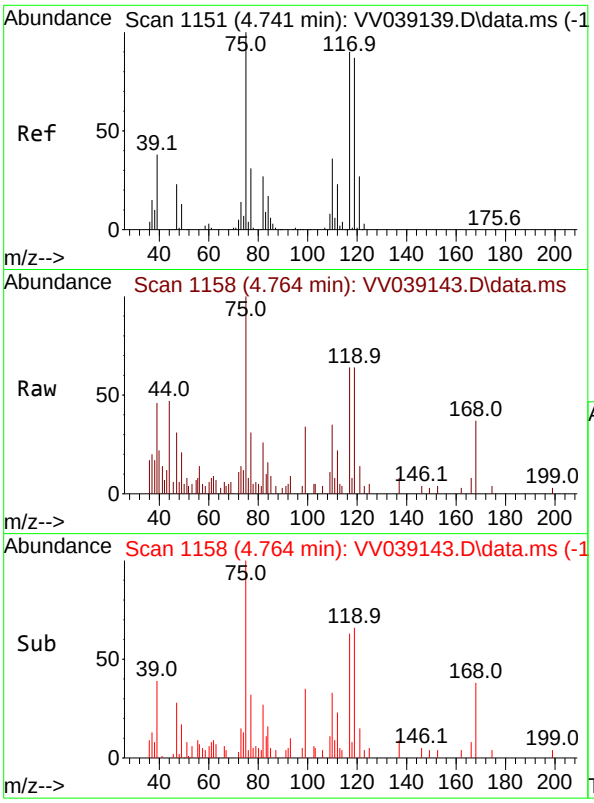
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 4.50 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.0
192	17.3

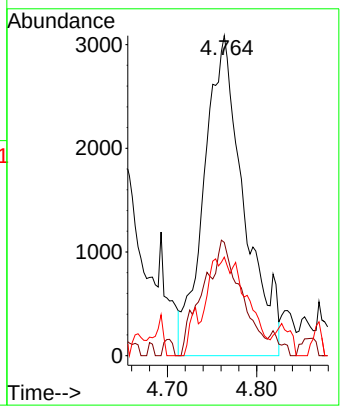




#36
1,1-Dichloropropene
Concen: 1.063 ug/l m
RT: 4.764 min Scan# 1
Delta R.T. 0.023 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 957

Ion	Ratio	Lower	Upper
75	100		
110	34.7	18.1	54.1
77	5.4	24.8	37.2#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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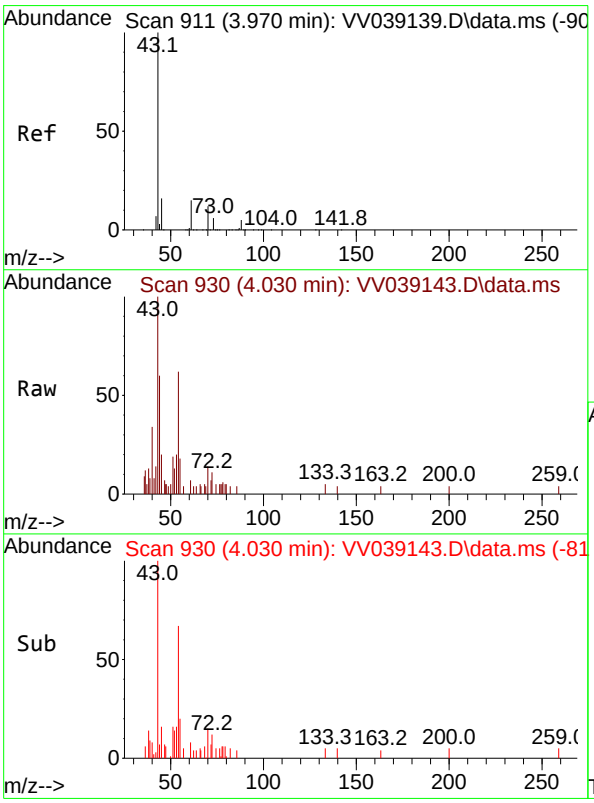
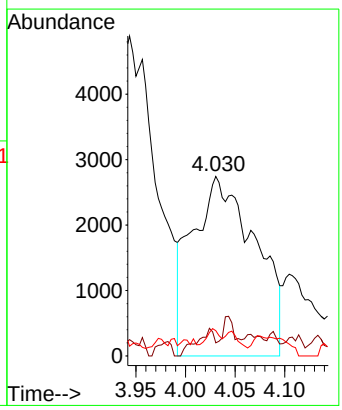
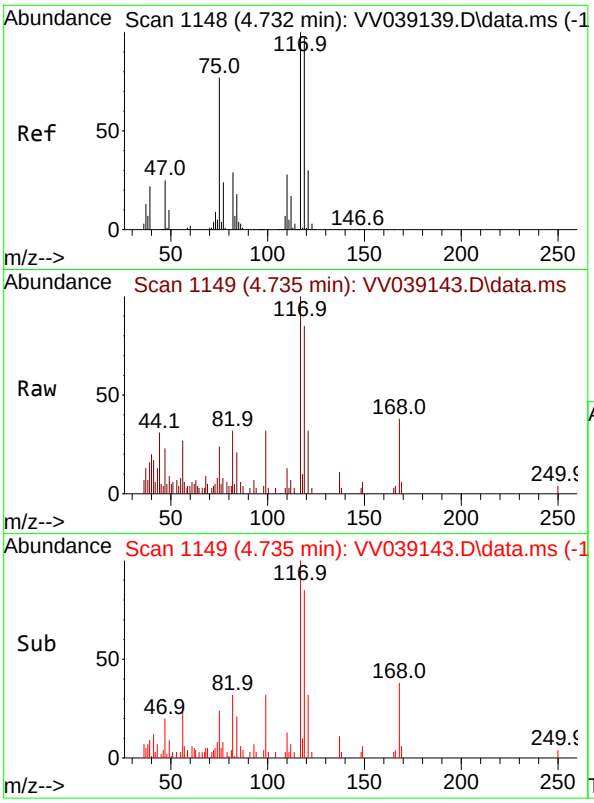


#37
Ethyl Acetate
Concen: 1.098 ug/l m
RT: 4.030 min Scan# 930
Delta R.T. 0.060 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 12136

Ion	Ratio	Lower	Upper
43	100		
61	4.2	10.3	15.5#
70	1.6	8.0	12.0#

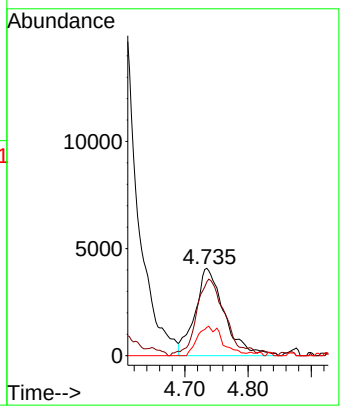




#38
Carbon Tetrachloride
Concen: 1.207 ug/l m
RT: 4.735 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:117 Resp: 1309

Ion	Ratio	Lower	Upper
117	100		
119	84.6	77.2	115.8
121	32.4	24.2	36.2



Instrument :
MSVOA_V
ClientSampleId :
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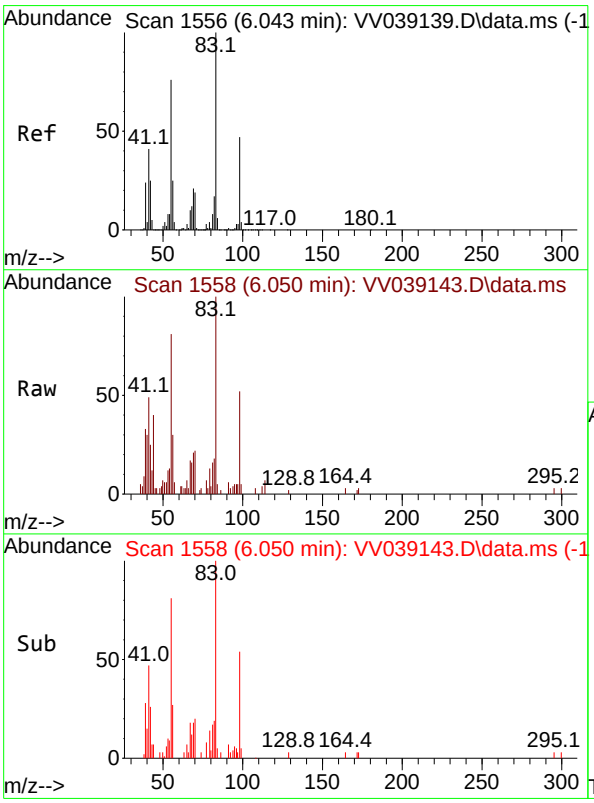
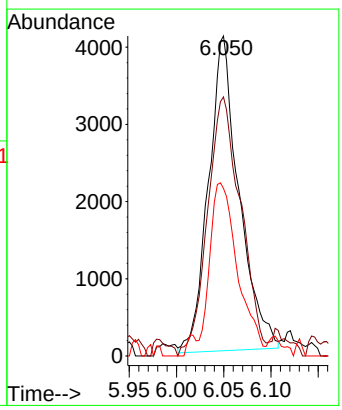
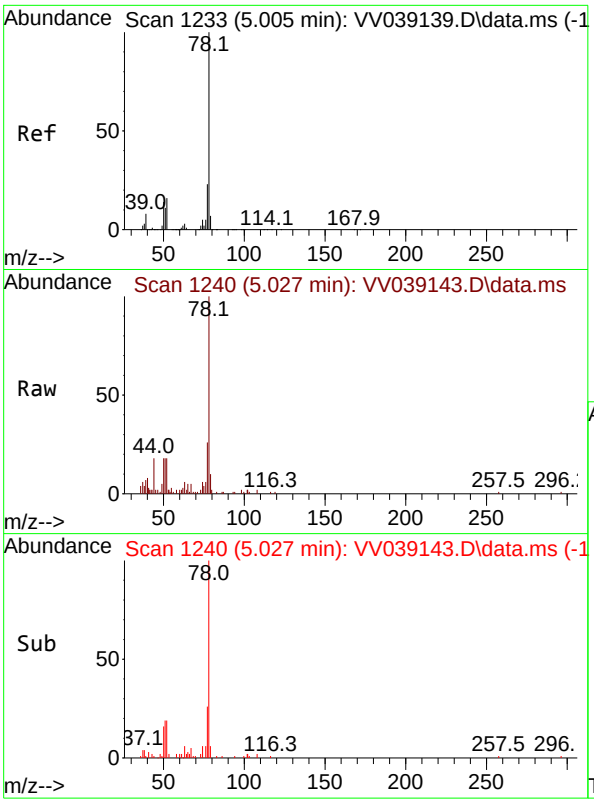


#39
Methylcyclohexane
Concen: 0.848 ug/l
RT: 6.050 min Scan# 1558
Delta R.T. 0.007 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 9159

Ion	Ratio	Lower	Upper
83	100		
55	83.0	60.5	90.7
98	53.7	37.8	56.6

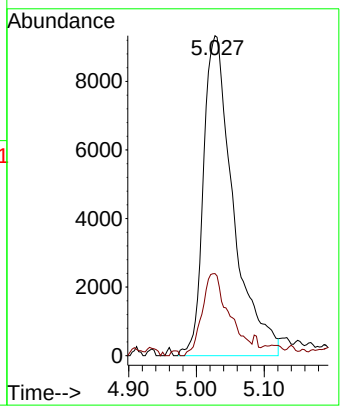




#40
Benzene
Concen: 0.978 ug/l
RT: 5.027 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 78 Resp: 2848

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.7	28.1



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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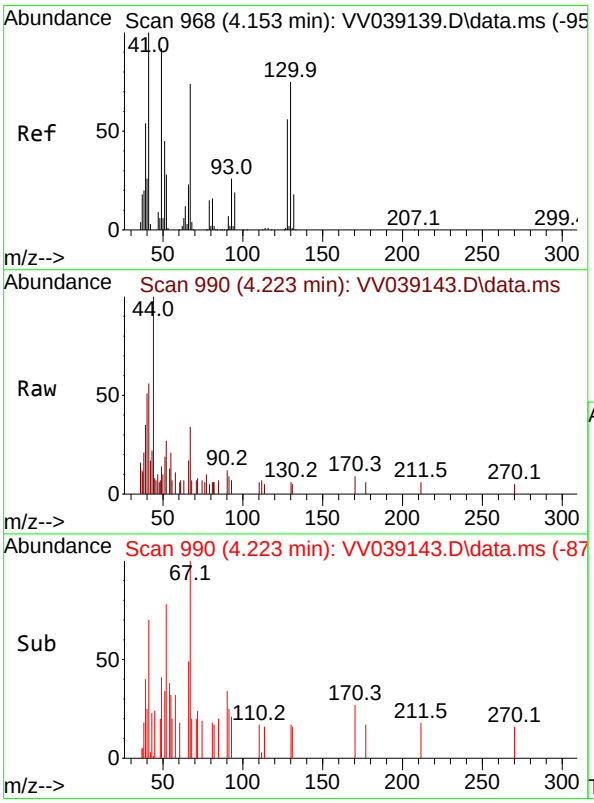
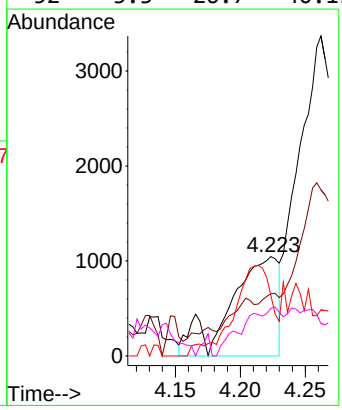
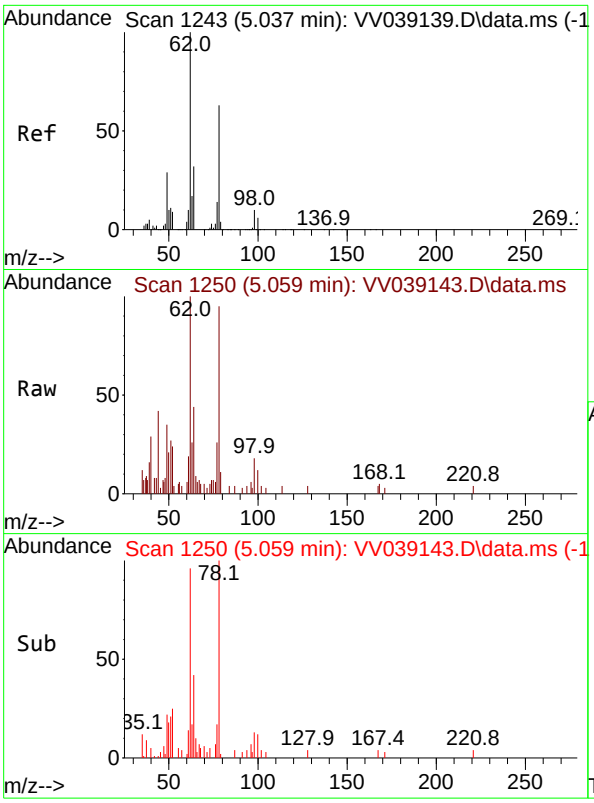


#41
Methacrylonitrile
Concen: 2.427 ug/l m
RT: 4.223 min Scan# 990
Delta R.T. 0.070 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 2717

Ion	Ratio	Lower	Upper
41	100		
39	5.4	42.2	63.2#
67	0.0	67.9	101.9#
52	3.3	26.7	40.1#





#42
1,2-Dichloroethane
Concen: 1.067 ug/l
RT: 5.059 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 62 Resp: 1089

Ion	Ratio	Lower	Upper
62	100		
98	11.5	0.0	19.2

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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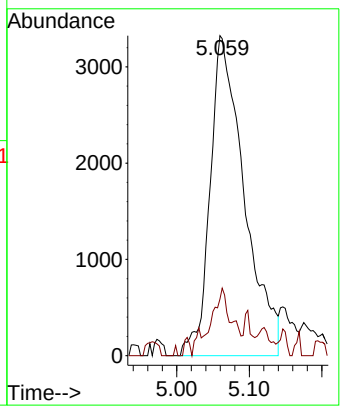
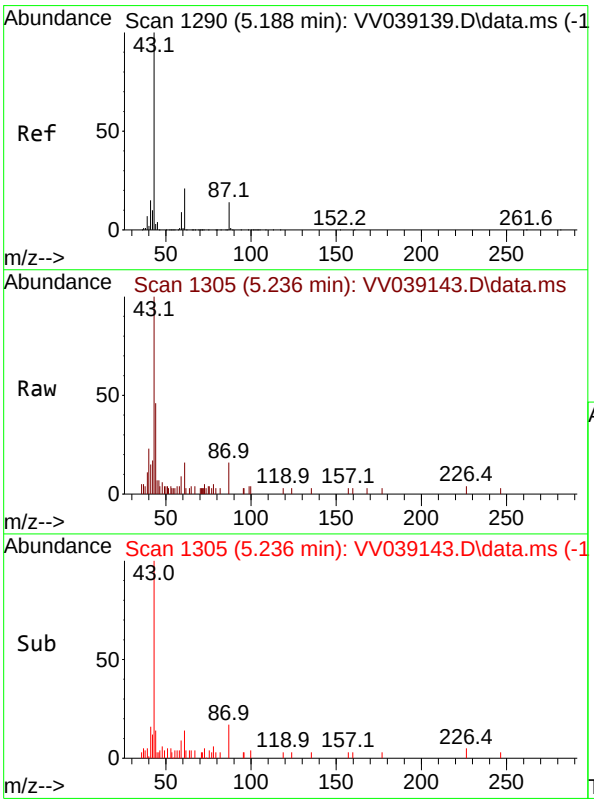
Supervised By :Semsettin Yesilyurt 09/26/2025

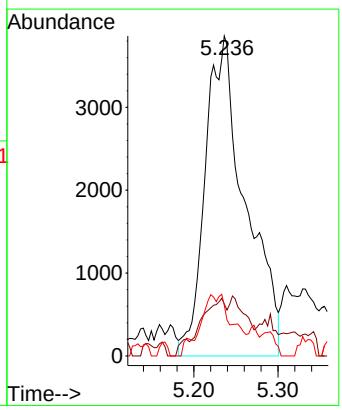


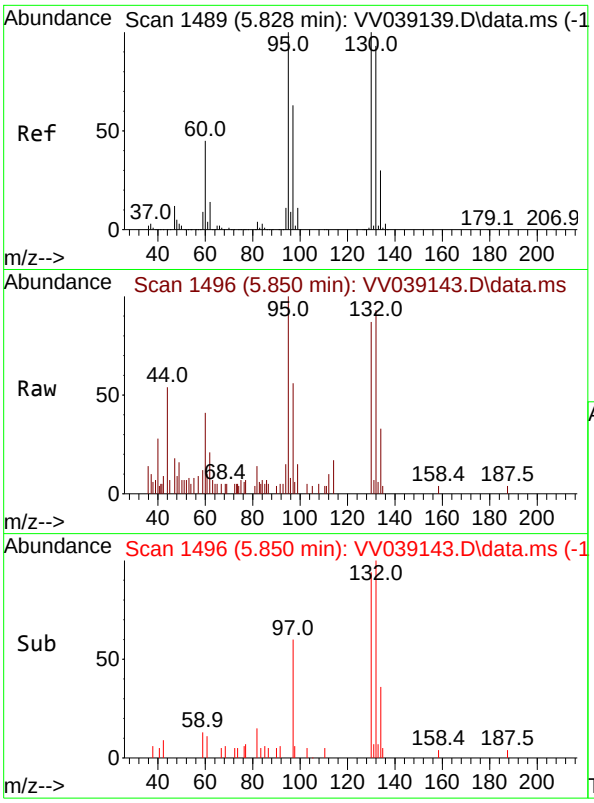


#43
Isopropyl Acetate
Concen: 0.840 ug/l m
RT: 5.236 min Scan# 1305
Delta R.T. 0.048 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 12786

Ion	Ratio	Lower	Upper
43	100		
61	7.1	15.9	23.9#
87	4.4	11.0	16.6#





#44
Trichloroethene
Concen: 0.953 ug/l
RT: 5.850 min Scan# 14
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:130 Resp: 640

Ion	Ratio	Lower	Upper
130	100		
95	115.1	0.0	199.2

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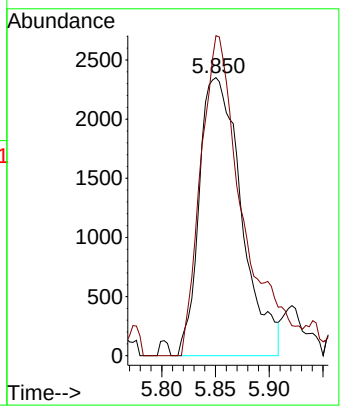
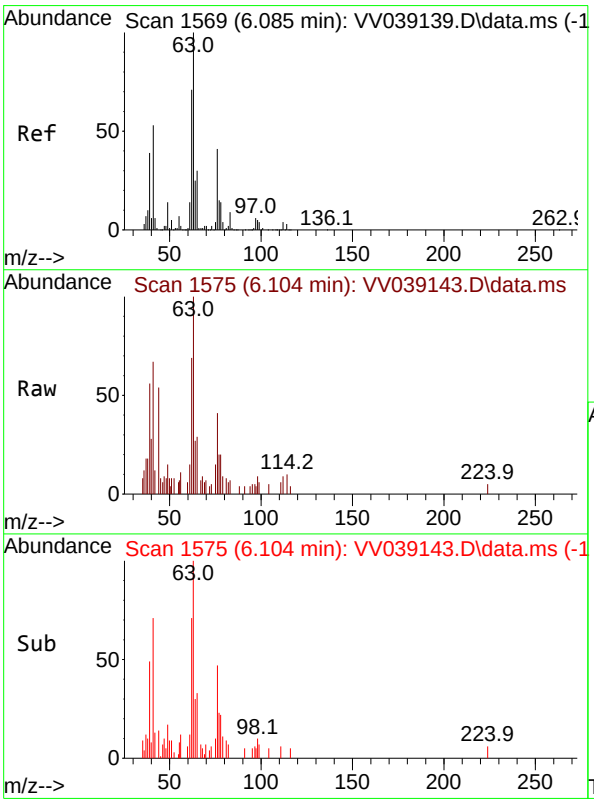
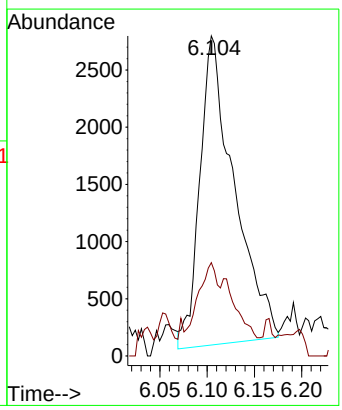


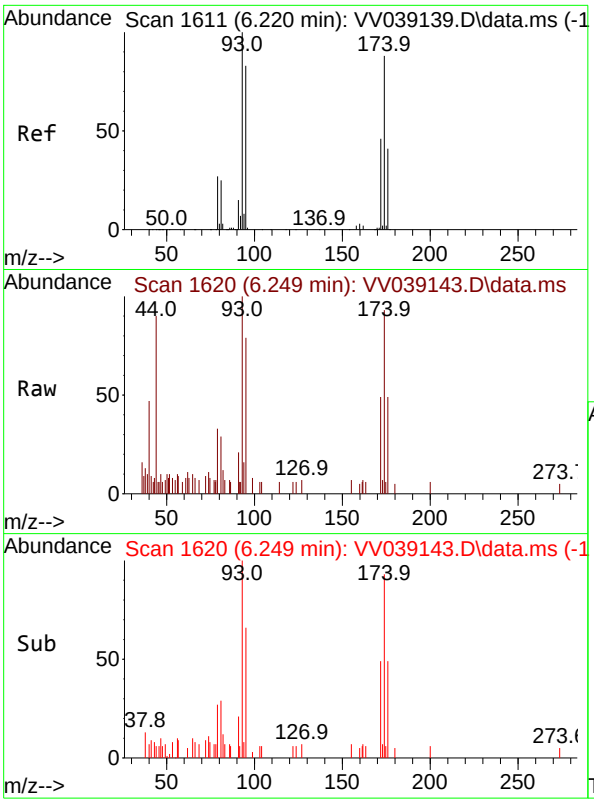


#45
1,2-Dichloropropane
Concen: 0.945 ug/l
RT: 6.104 min Scan# 1575
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 6838

Ion	Ratio	Lower	Upper
63	100		
65	25.8	23.7	35.5

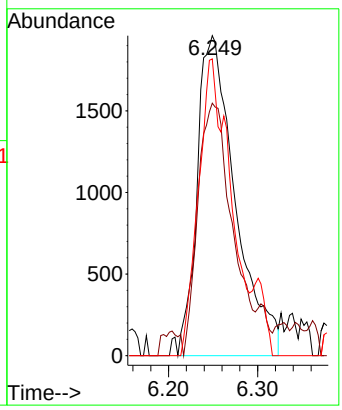




#46
Dibromomethane
Concen: 1.053 ug/l
RT: 6.249 min Scan# 1
Delta R.T. 0.029 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 93 Resp: 583

Ion	Ratio	Lower	Upper
93	100		
95	70.8	65.5	98.3
174	77.3	69.0	103.4



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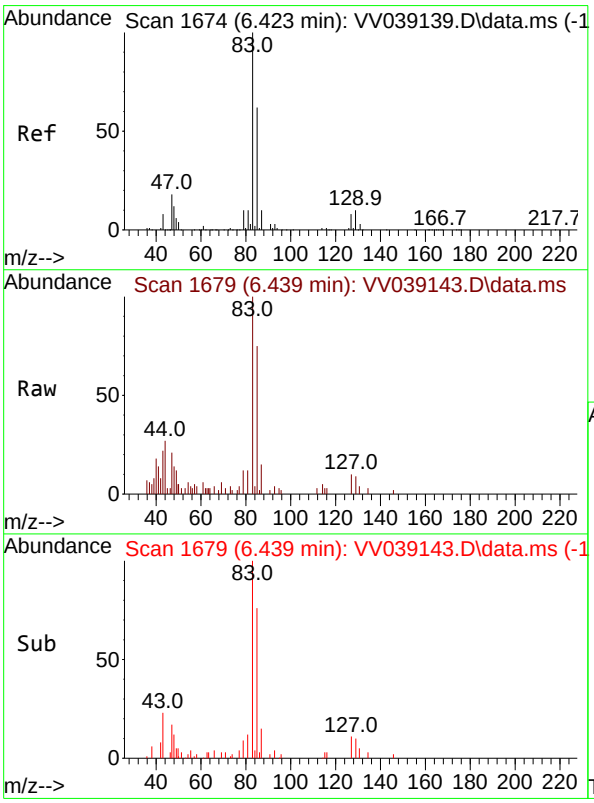
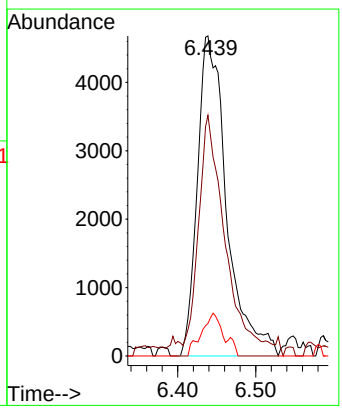
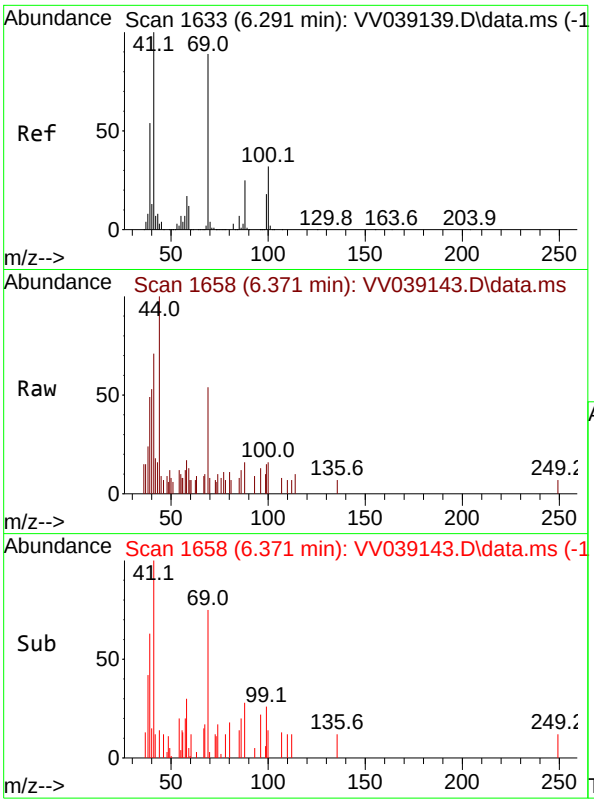


#47
Bromodichloromethane
Concen: 1.066 ug/l
RT: 6.439 min Scan# 1679
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12206

Ion	Ratio	Lower	Upper
83	100		
85	70.7	49.7	74.5
127	10.2	6.6	9.8#





#48
Methyl methacrylate
Concen: 1.038 ug/l m
RT: 6.371 min Scan# 1
Delta R.T. 0.080 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 723

Ion	Ratio	Lower	Upper
41	100		
69	0.0	72.4	108.6#
39	0.0	42.5	63.7#

Instrument :
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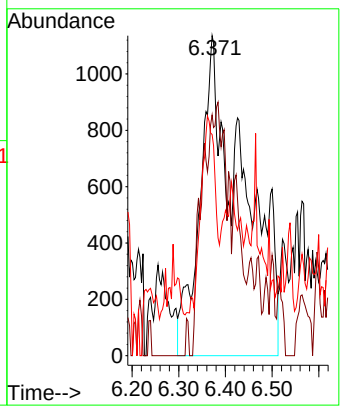
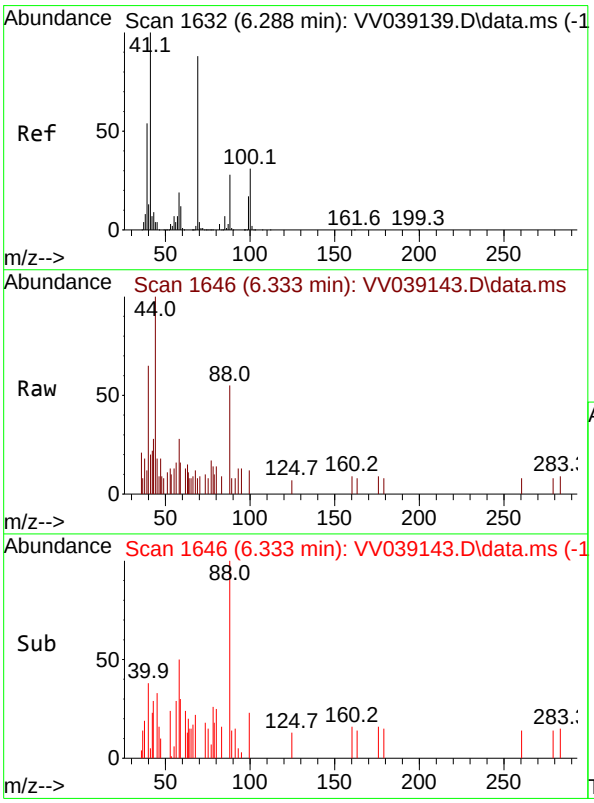
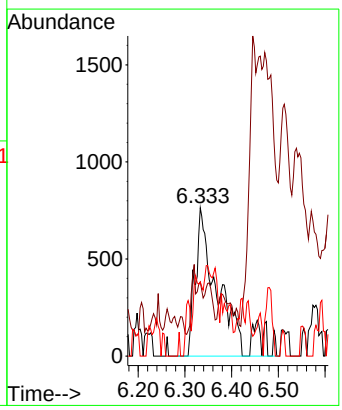


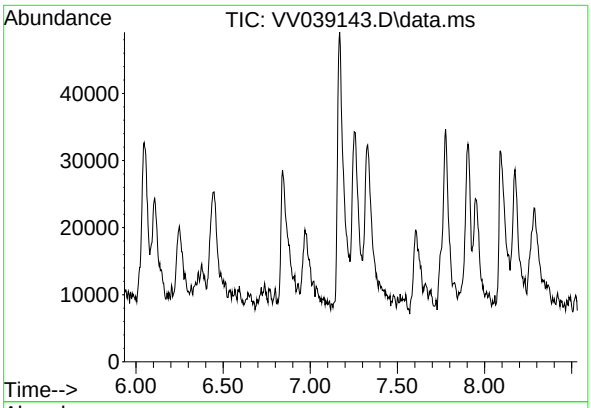


#49
1,4-Dioxane
Concen: 24.855 ug/l m
RT: 6.333 min Scan# 1646
Delta R.T. 0.045 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 88 Resp: 2721

Ion	Ratio	Lower	Upper
88	100		
43	9.6	25.1	37.7#
58	12.8	53.6	80.4#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.23 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	65.2

Instrument :
MSVOA_V
ClientSampleId :
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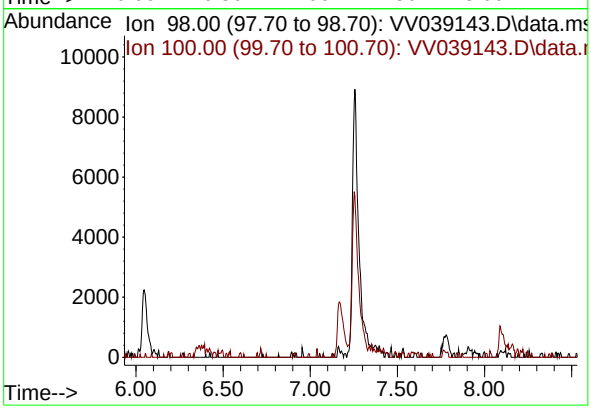
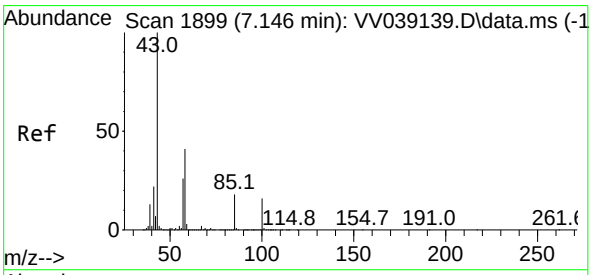
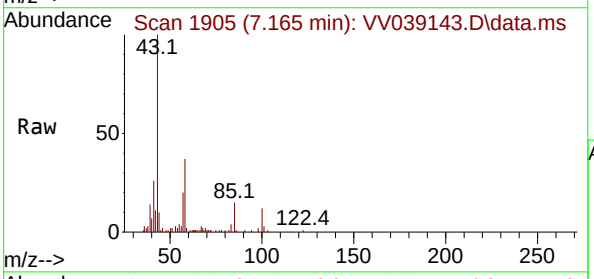
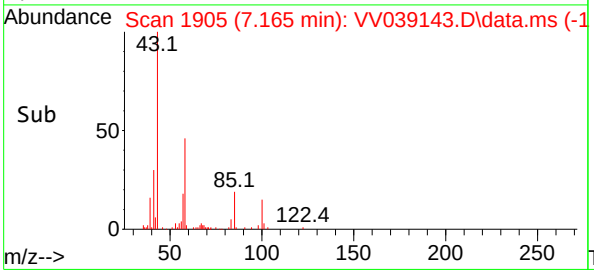




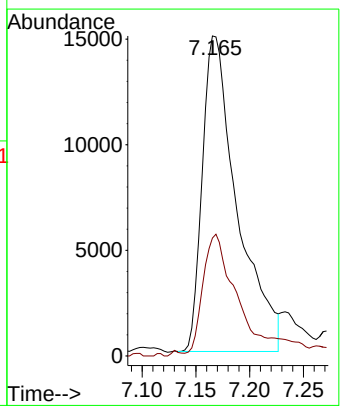


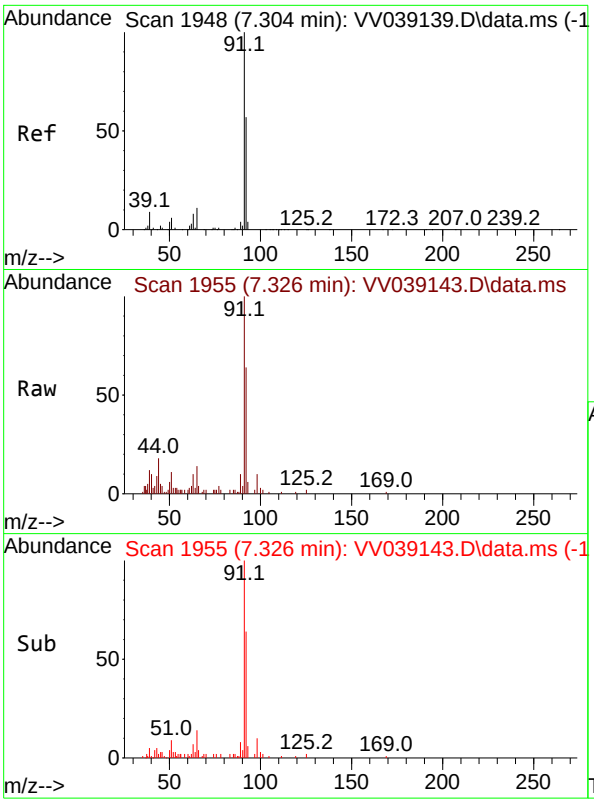


#51
4-Methyl-2-Pentanone
Concen: 3.472 ug/l
RT: 7.165 min Scan# 1905
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 33797

Ion	Ratio	Lower	Upper
43	100		
58	38.1	32.3	48.5

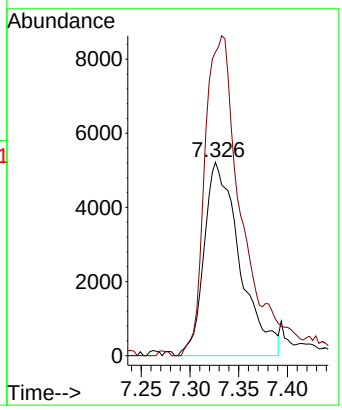




#52
Toluene
Concen: 0.786 ug/l
RT: 7.326 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 92 Resp: 1326

Ion	Ratio	Lower	Upper
92	100		
91	156.2	139.2	208.8



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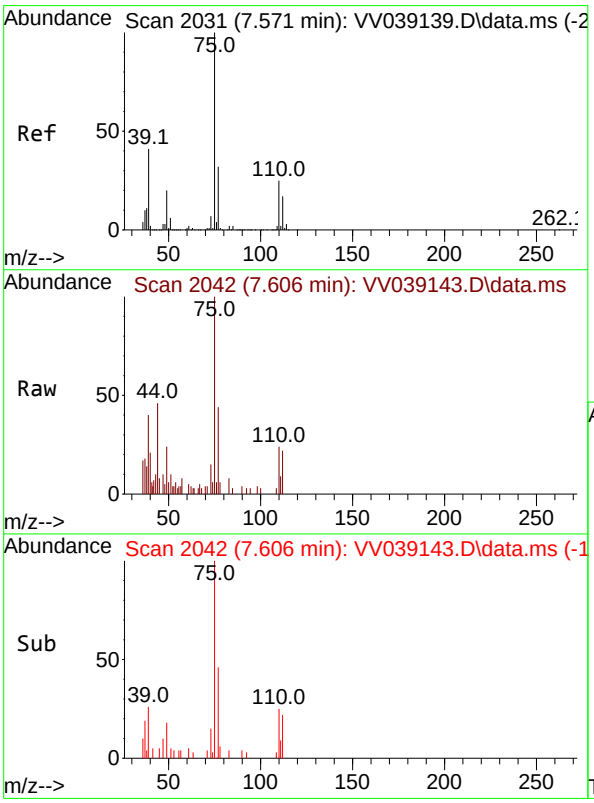
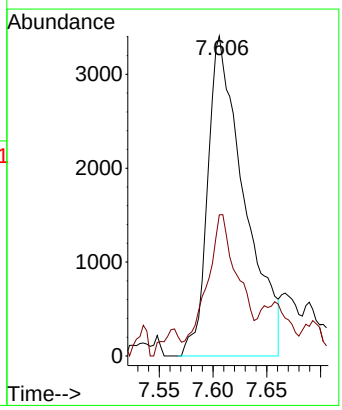
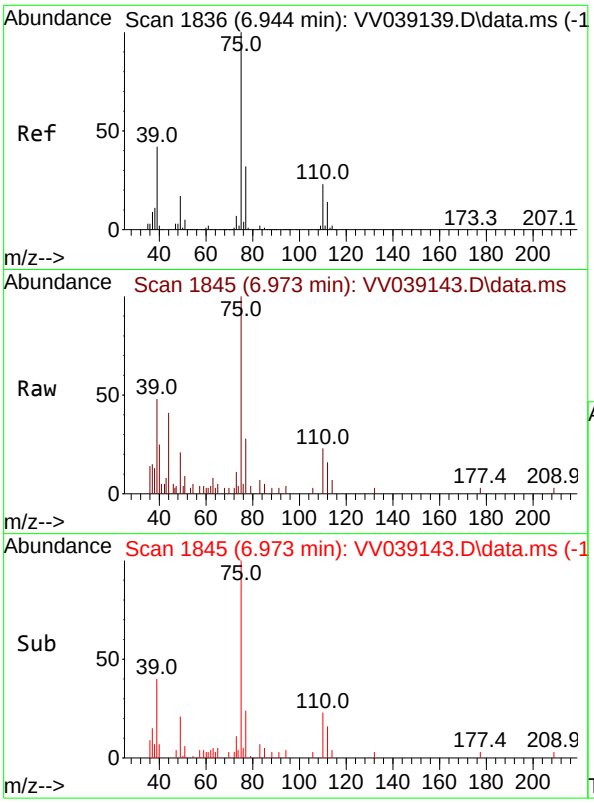


#53
t-1,3-Dichloropropene
Concen: 0.807 ug/l
RT: 7.606 min Scan# 2042
Delta R.T. 0.035 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 8060

Ion	Ratio	Lower	Upper
75	100		
77	38.0	25.9	38.9

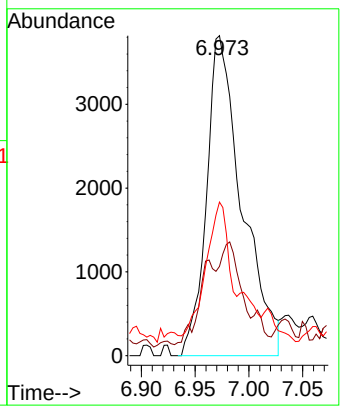




#54
cis-1,3-Dichloropropene
Concen: 0.794 ug/l
RT: 6.973 min Scan# 1
Delta R.T. 0.029 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 875

Ion	Ratio	Lower	Upper
75	100		
77	23.8	25.5	38.3
39	41.7	33.8	50.6



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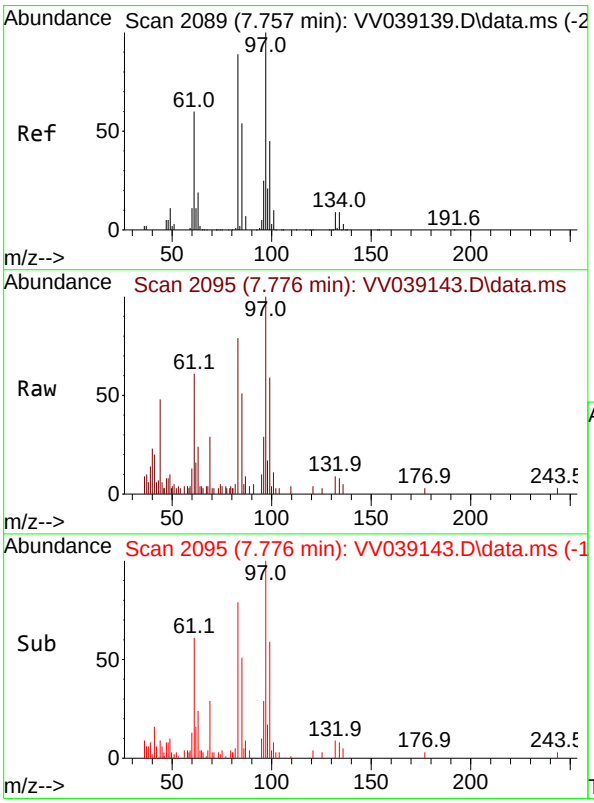
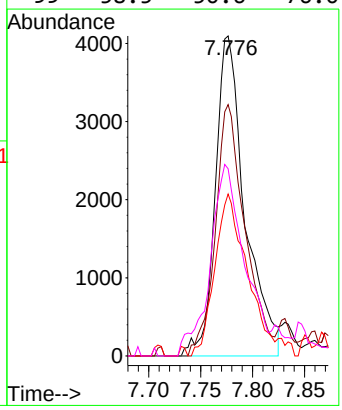
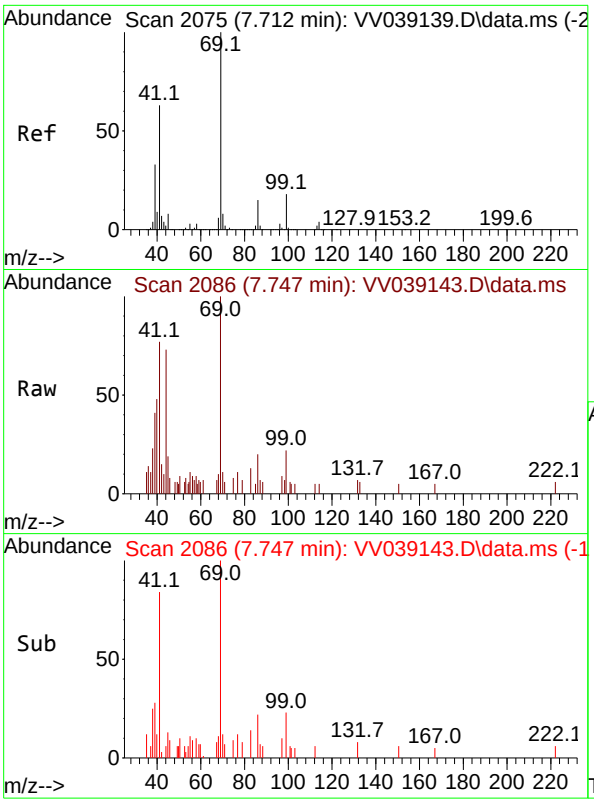


#55
1,1,2-Trichloroethane
Concen: 1.075 ug/l
RT: 7.776 min Scan# 2095
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 97 Resp: 8140

Ion	Ratio	Lower	Upper
97	100		
83	78.6	71.1	106.7
85	50.6	44.6	67.0
99	58.5	50.6	76.0

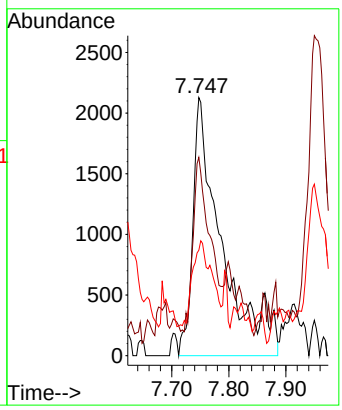




#56
Ethyl methacrylate
Concen: 0.829 ug/l m
RT: 7.747 min Scan# 2
Delta R.T. 0.035 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 69 Resp: 745

Ion	Ratio	Lower	Upper
69	100		
41	40.0	50.7	76.1#
39	21.4	26.0	39.0#



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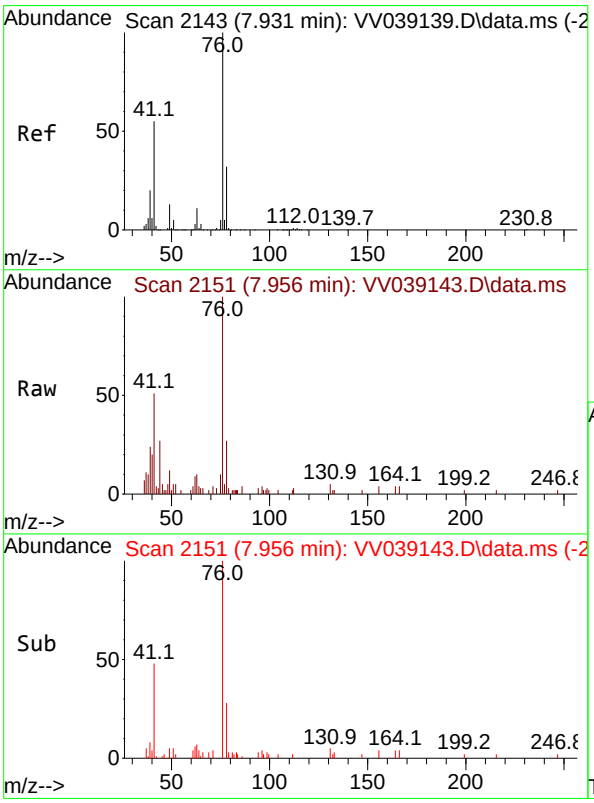
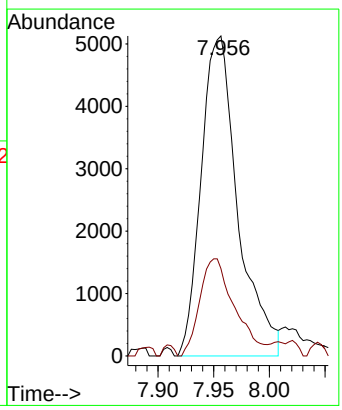
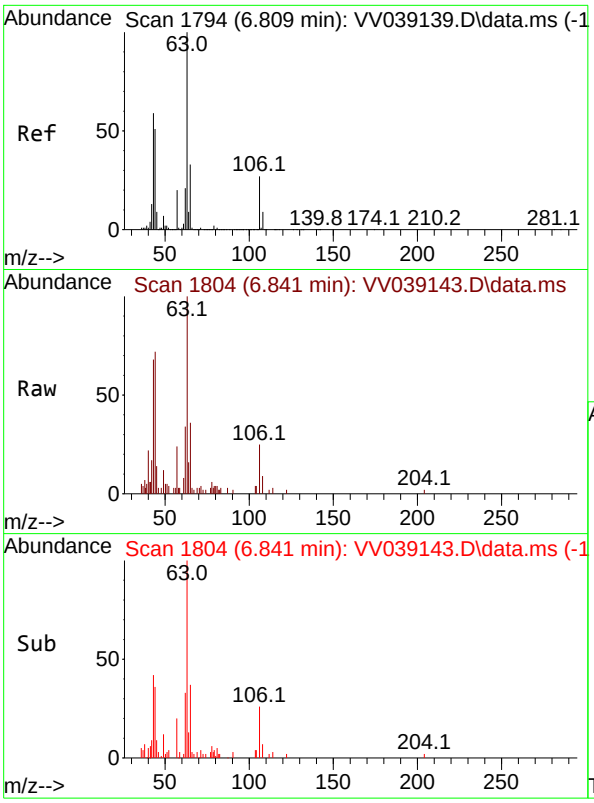


#57
1,3-Dichloropropane
Concen: 0.982 ug/l
RT: 7.956 min Scan# 2151
Delta R.T. 0.025 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 76 Resp: 11732

Ion	Ratio	Lower	Upper
76	100		
78	29.1	26.1	39.1





#58
2-Chloroethyl Vinyl ether
Concen: 11.289 ug/l
RT: 6.841 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 1001

Ion	Ratio	Lower	Upper
63	100		
106	26.4	22.1	33.1

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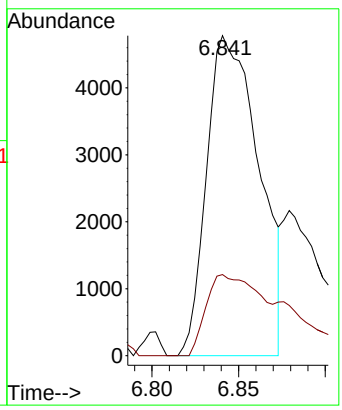
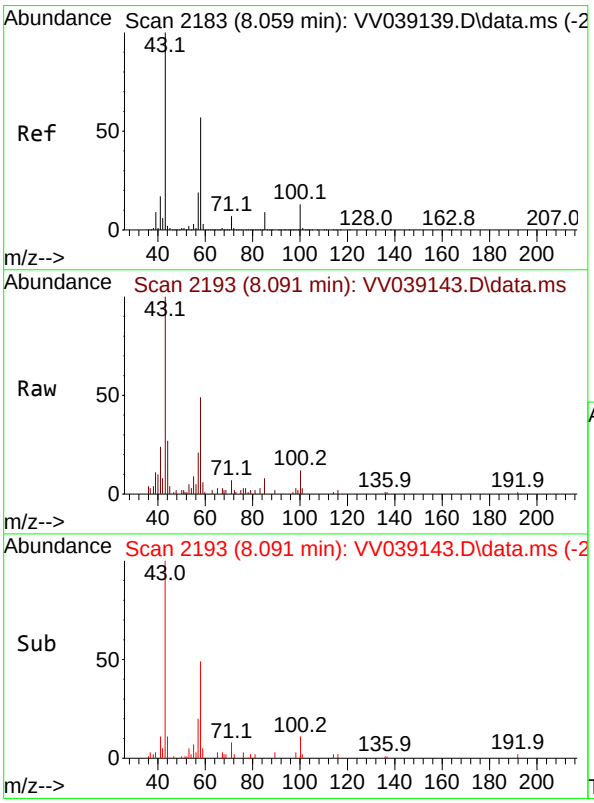
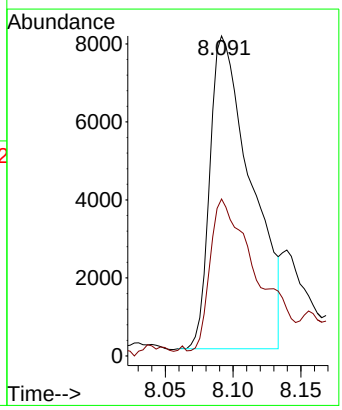


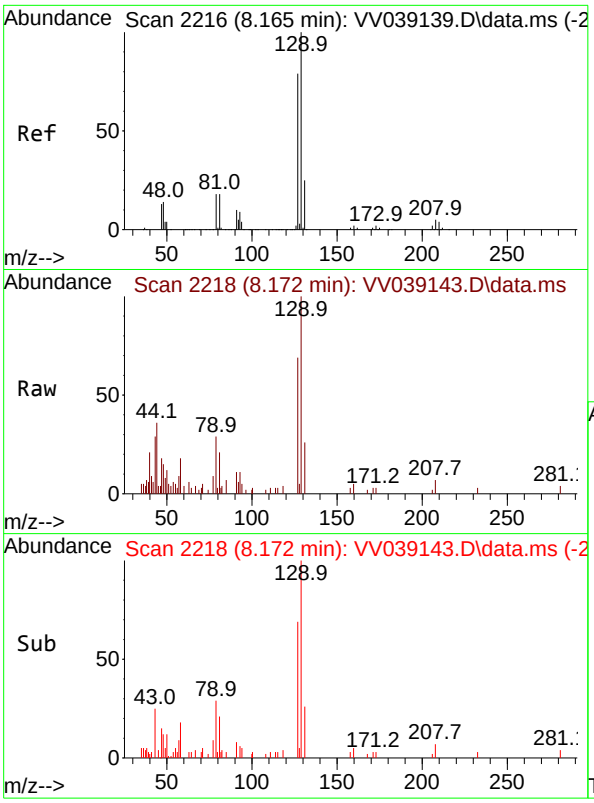


#59
2-Hexanone
Concen: 4.307 ug/l
RT: 8.091 min Scan# 2193
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 17015

Ion	Ratio	Lower	Upper
43	100		
58	55.1	28.3	85.0





#60
Dibromochloromethane
Concen: 1.057 ug/l
RT: 8.172 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:129 Resp: 912

Ion	Ratio	Lower	Upper
129	100		
127	67.4	39.3	117.9

Instrument :
MSVOA_V
ClientSampleId :
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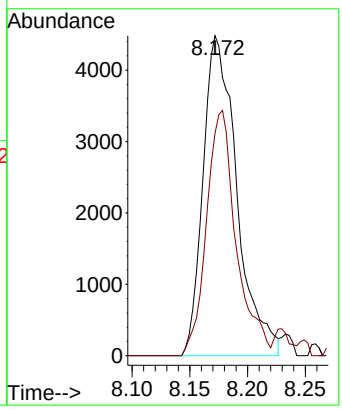
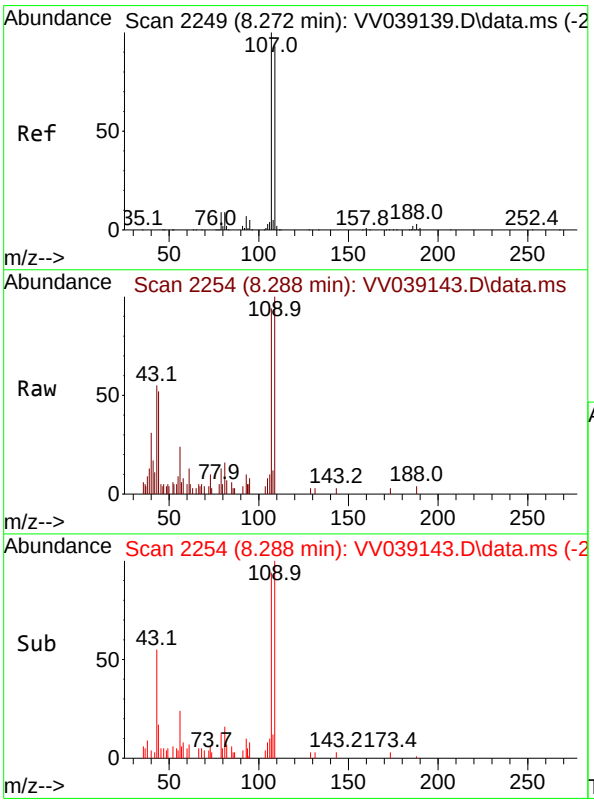
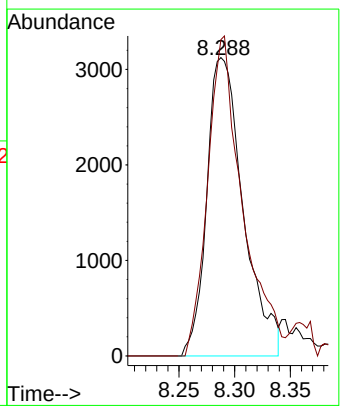


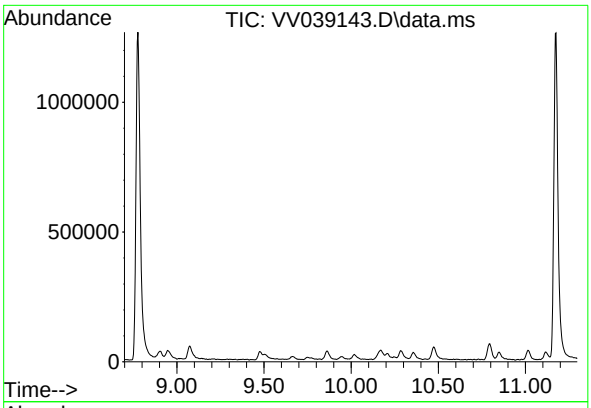


#61
1,2-Dibromoethane
Concen: 0.921 ug/l
RT: 8.288 min Scan# 2254
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:107 Resp: 7129

Ion	Ratio	Lower	Upper
107	100		
109	102.8	74.6	112.0





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 10.00 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	75.2
176	72.1

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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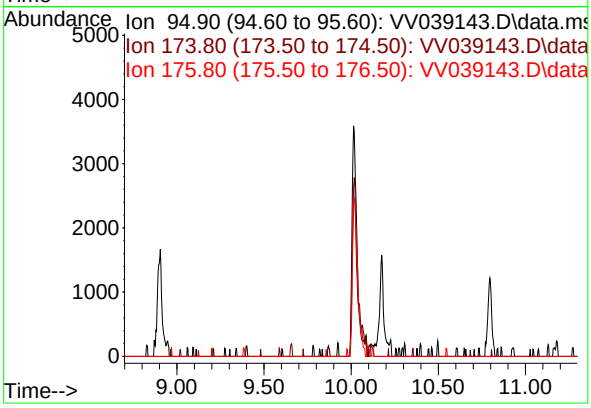
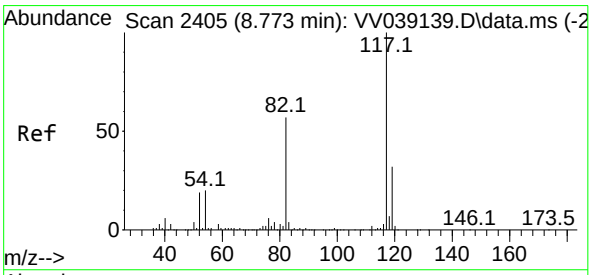
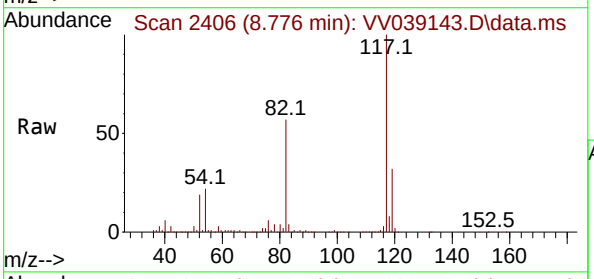


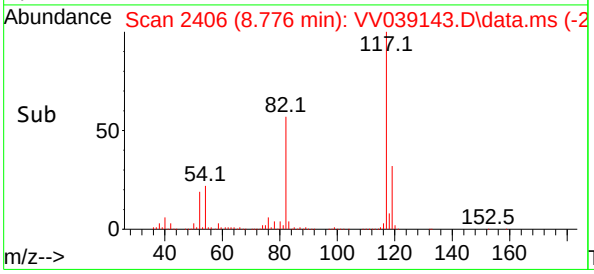


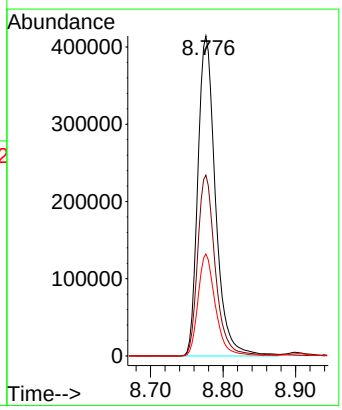
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

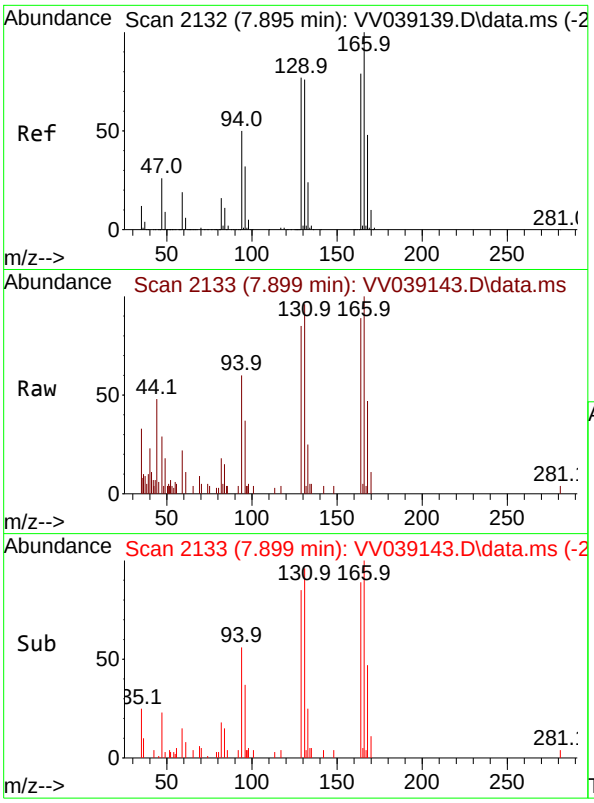
Tgt Ion:117 Resp: 700418

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.4	68.2
119	31.8	25.6	38.4





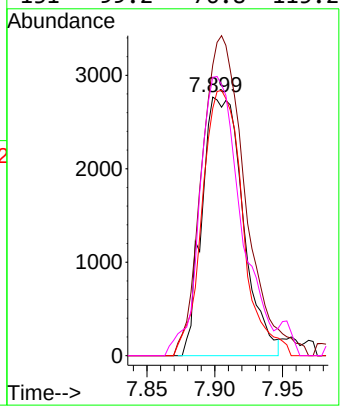




#64
Tetrachloroethene
Concen: 0.991 ug/l
RT: 7.899 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:164 Resp: 581

Ion	Ratio	Lower	Upper
164	100		
166	107.6	101.6	152.4
129	91.4	78.5	117.7
131	99.2	76.8	115.2



Instrument :
MSVOA_V
ClientSampleId :
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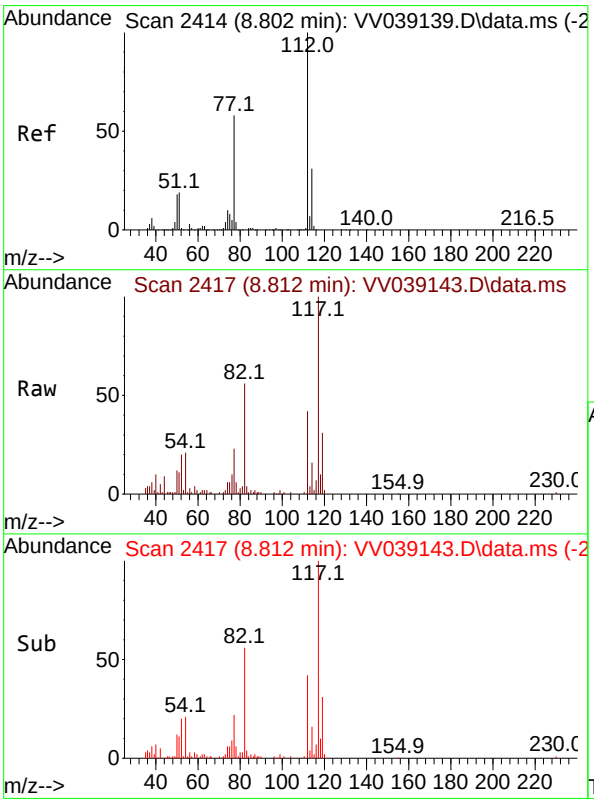
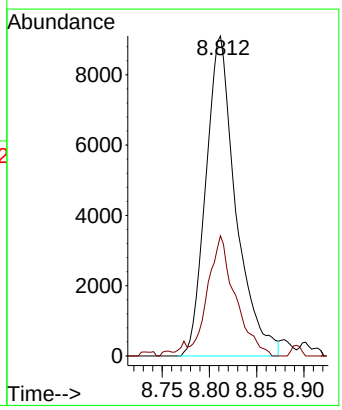
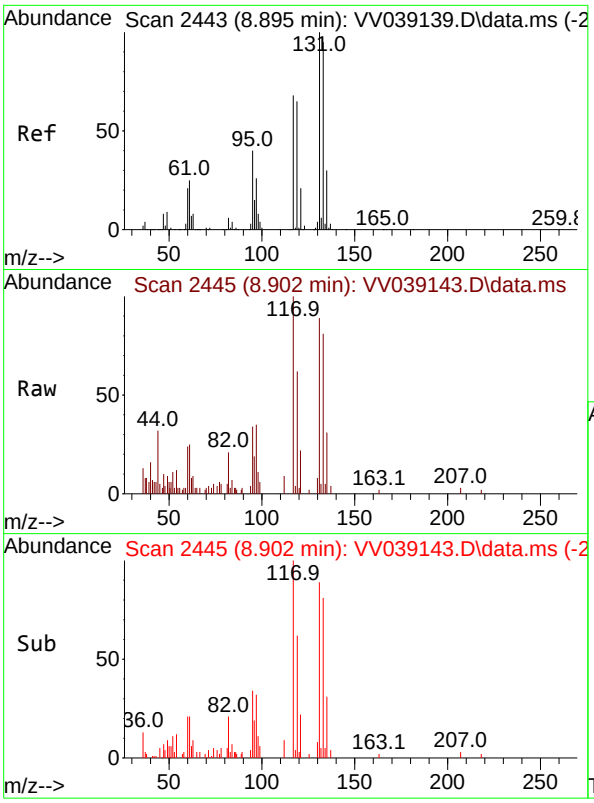


#65
Chlorobenzene
Concen: 1.025 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:112 Resp: 20007

Ion	Ratio	Lower	Upper
112	100		
114	37.5	24.6	37.0#

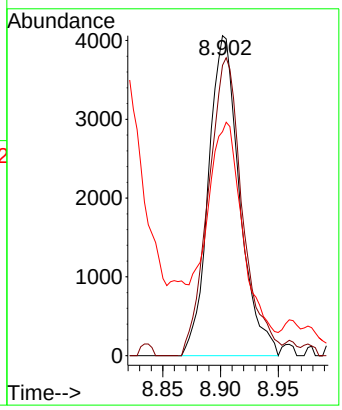




#66
1,1,1,2-Tetrachloroethane
Concen: 1.079 ug/l
RT: 8.902 min Scan# 24
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:131 Resp: 760

Ion	Ratio	Lower	Upper
131	100		
133	102.5	47.3	141.8
119	0.0	33.3	99.8#



Instrument :
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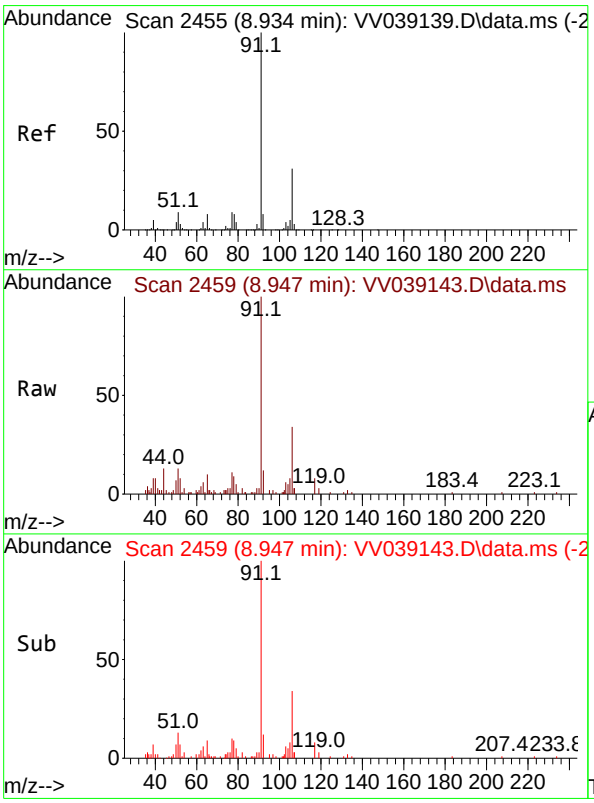
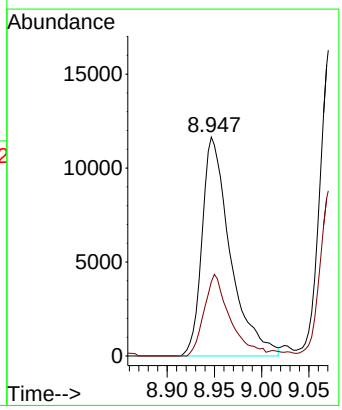
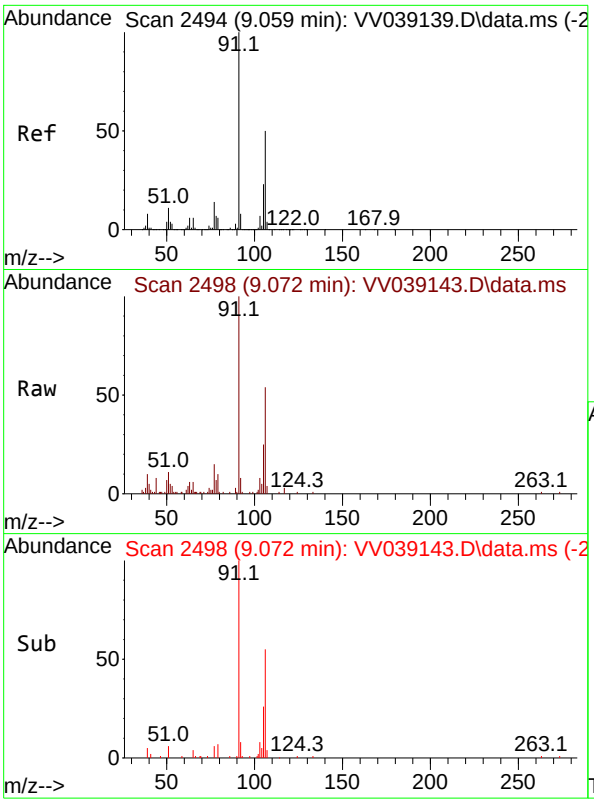


#67
Ethyl Benzene
Concen: 0.818 ug/l
RT: 8.947 min Scan# 2459
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 24171

Ion	Ratio	Lower	Upper
91	100		
106	33.9	24.6	37.0





#68
m/p-Xylenes
Concen: 1.425 ug/l
RT: 9.072 min Scan# 24
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:106 Resp: 1623

Ion	Ratio	Lower	Upper
106	100		
91	200.5	162.5	243.7

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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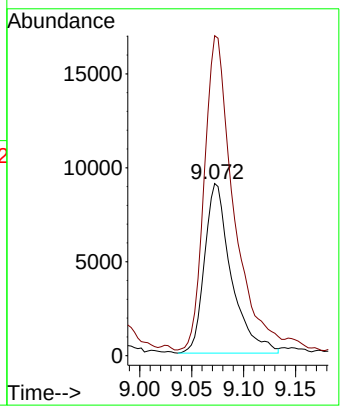
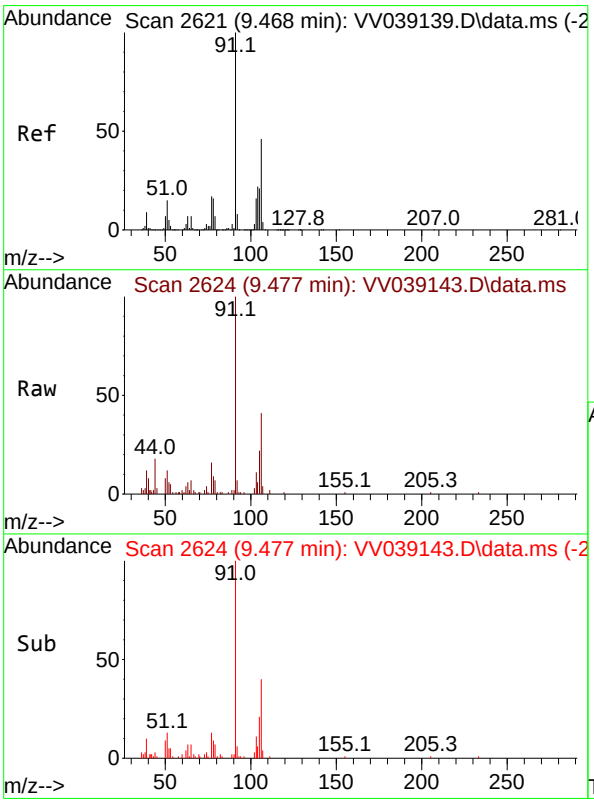
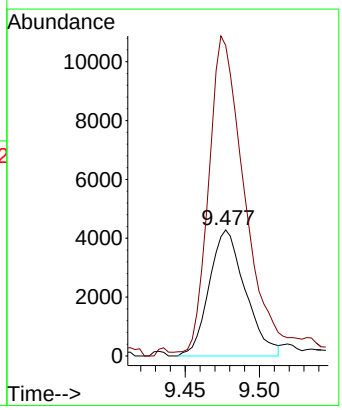


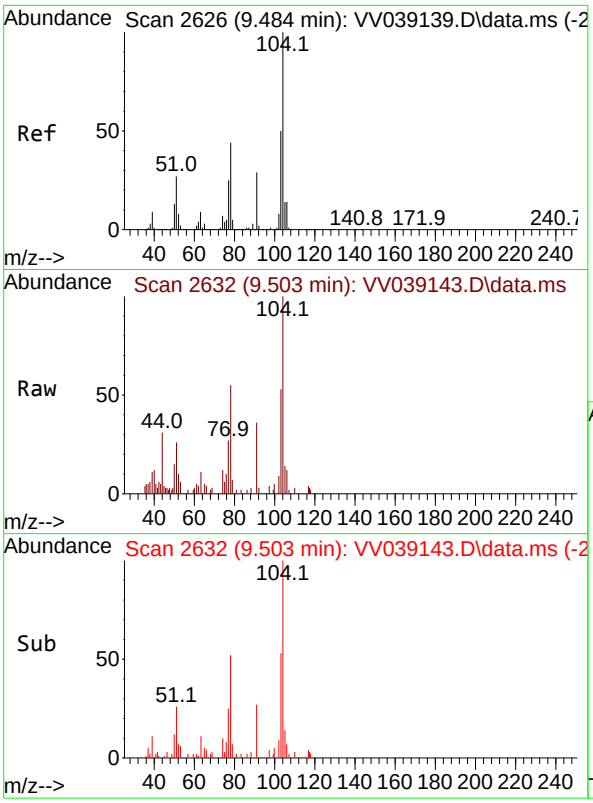


#69
o-Xylene
Concen: 0.718 ug/l
RT: 9.477 min Scan# 2624
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:106 Resp: 7250

Ion	Ratio	Lower	Upper
106	100		
91	252.4	109.1	327.3

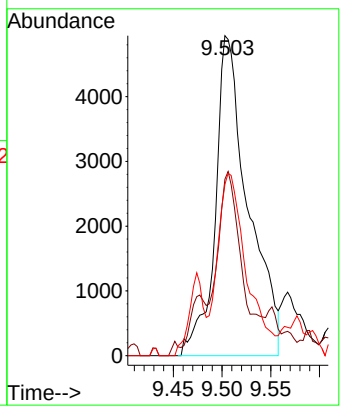




#70
Styrene
Concen: 2.083 ug/l
RT: 9.503 min Scan# 2
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:104 Resp: 1159

Ion	Ratio	Lower	Upper
104	100		
78	31.2	39.8	59.6#
103	43.9	43.4	65.2



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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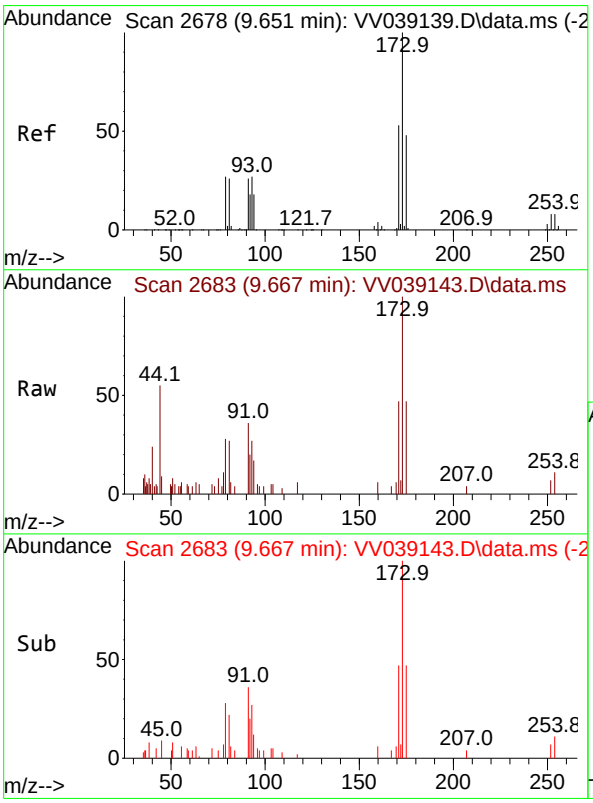
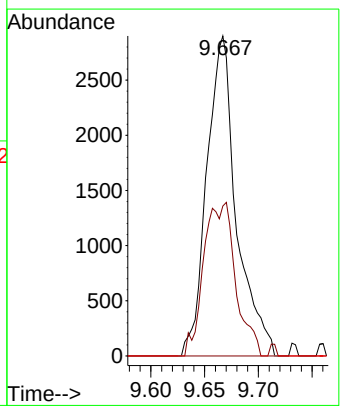
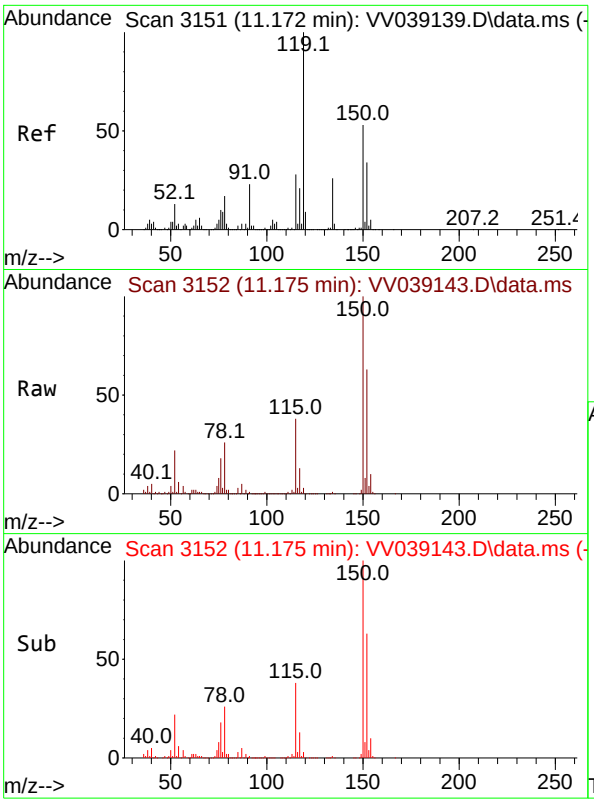


#71
Bromoform
Concen: 1.009 ug/l
RT: 9.667 min Scan# 2683
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:173 Resp: 5558

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: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:152 Resp: 32267

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.8	134.4
150	156.1	0.0	353.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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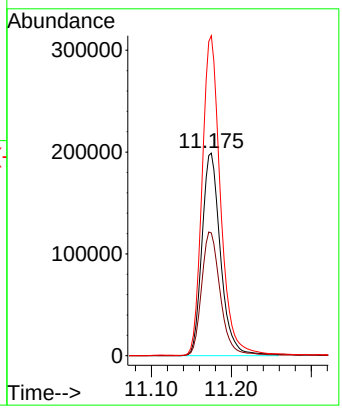
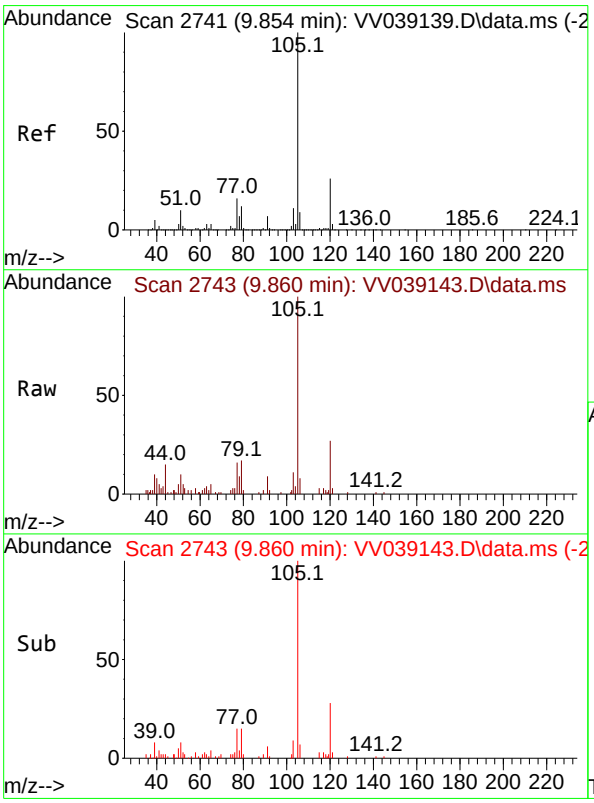
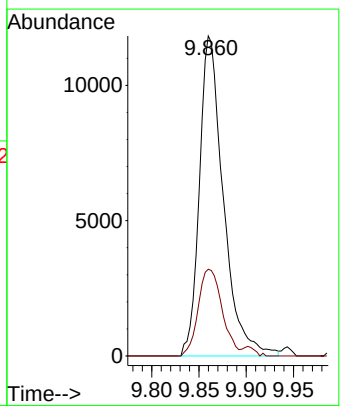


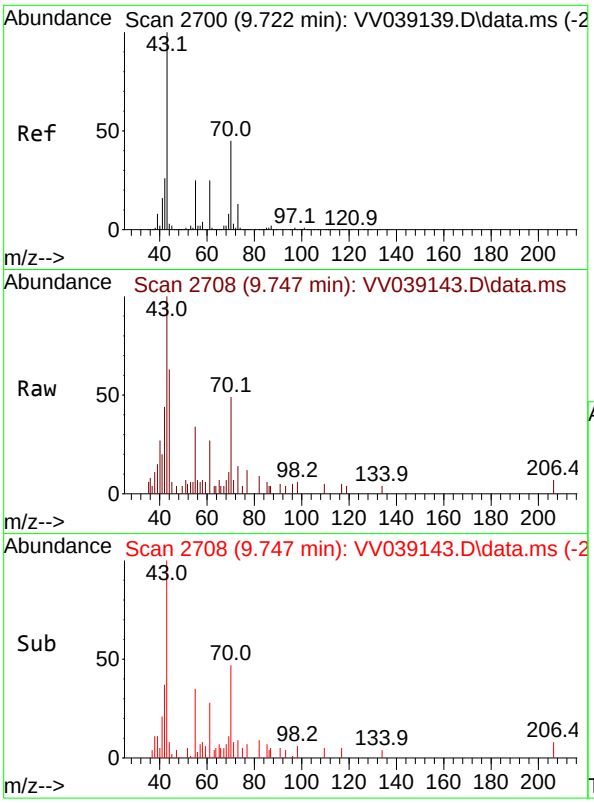


#73
Isopropylbenzene
Concen: 0.890 ug/l
RT: 9.860 min Scan# 2743
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 20820

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.1	39.1

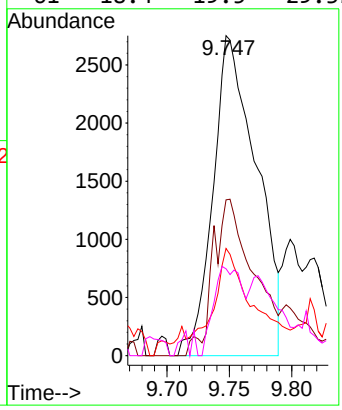




#74
N-amyl acetate
Concen: 0.713 ug/l
RT: 9.747 min Scan# 2
Delta R.T. 0.026 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 665

Ion	Ratio	Lower	Upper
43	100		
70	39.0	35.4	53.0
55	22.6	20.6	30.8
61	18.4	19.5	29.3#



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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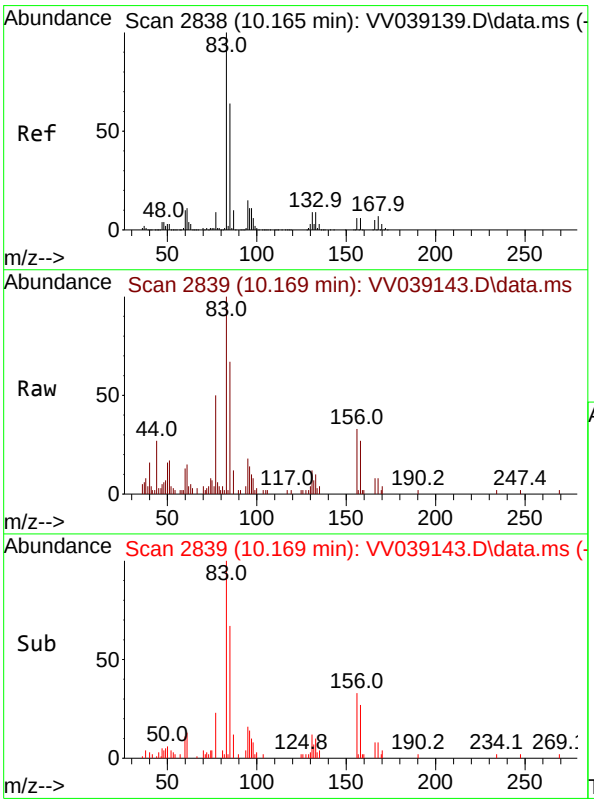
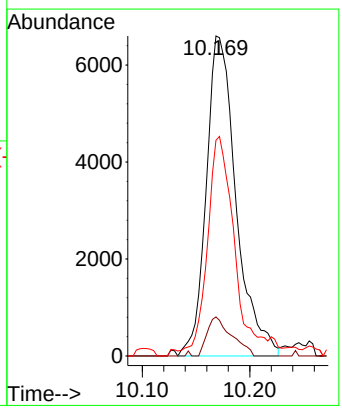
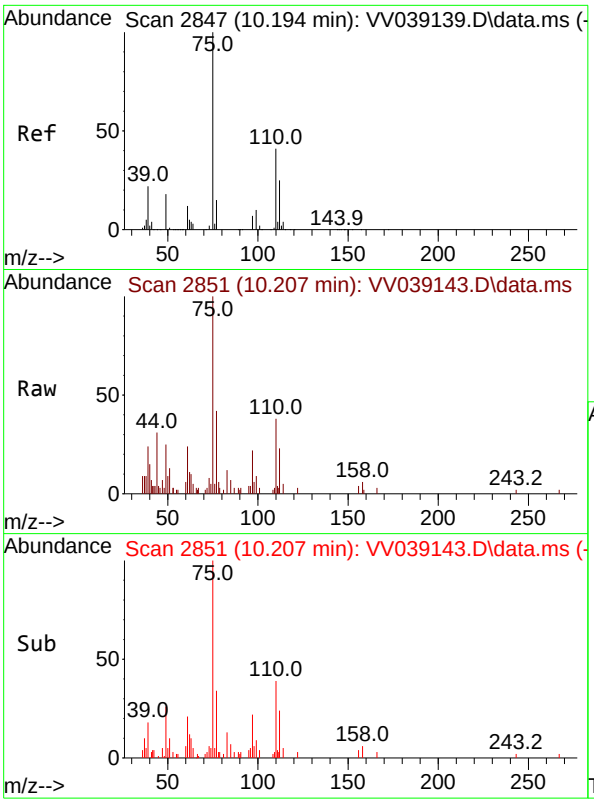


#75
1,1,2,2-Tetrachloroethane
Concen: 1.243 ug/l
RT: 10.169 min Scan# 2839
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12746

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.5	13.7
85	59.8	31.9	95.9





#76
1,2,3-Trichloropropane
Concen: 1.207 ug/l
RT: 10.207 min Scan# 2
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 887

Ion	Ratio	Lower	Upper
75	100		
77	22.5	11.3	33.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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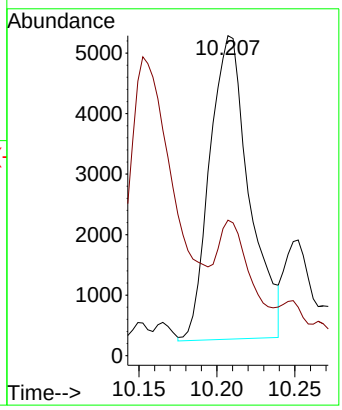
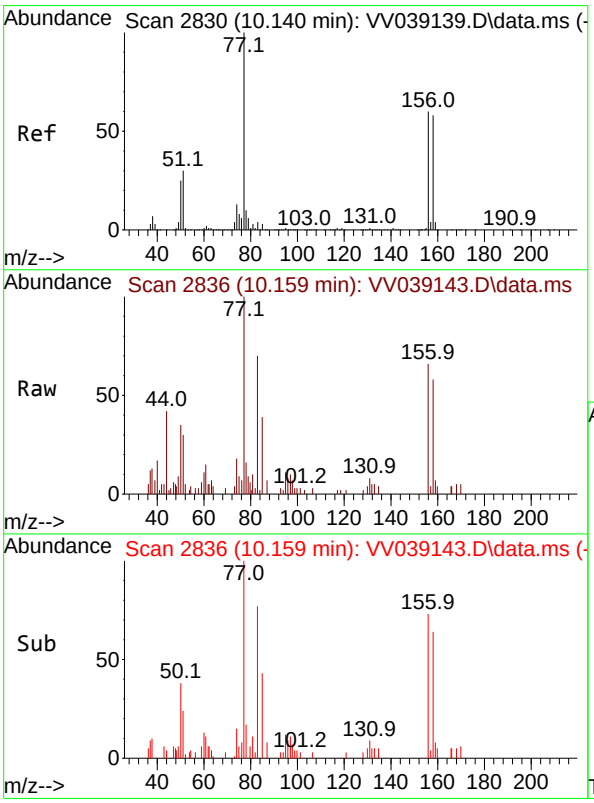
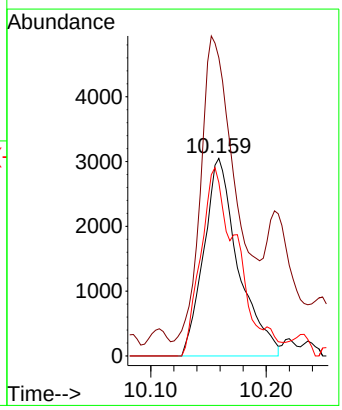


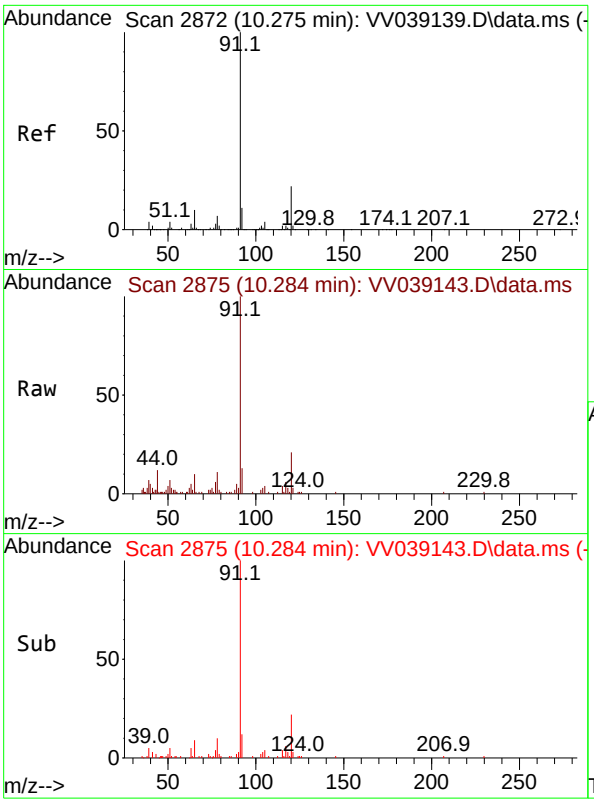


#77
Bromobenzene
Concen: 1.039 ug/l
RT: 10.159 min Scan# 2836
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:156 Resp: 6311

Ion	Ratio	Lower	Upper
156	100		
77	155.9	83.4	250.1
158	103.1	48.8	146.4

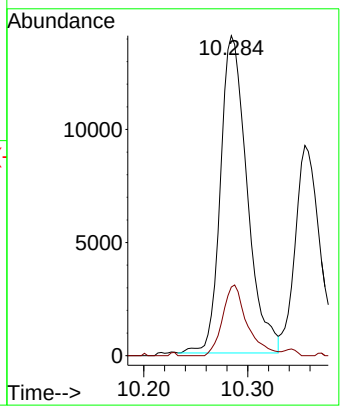




#78
n-propylbenzene
Concen: 0.877 ug/l
RT: 10.284 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 2499

Ion	Ratio	Lower	Upper
91	100		
120	20.5	11.1	33.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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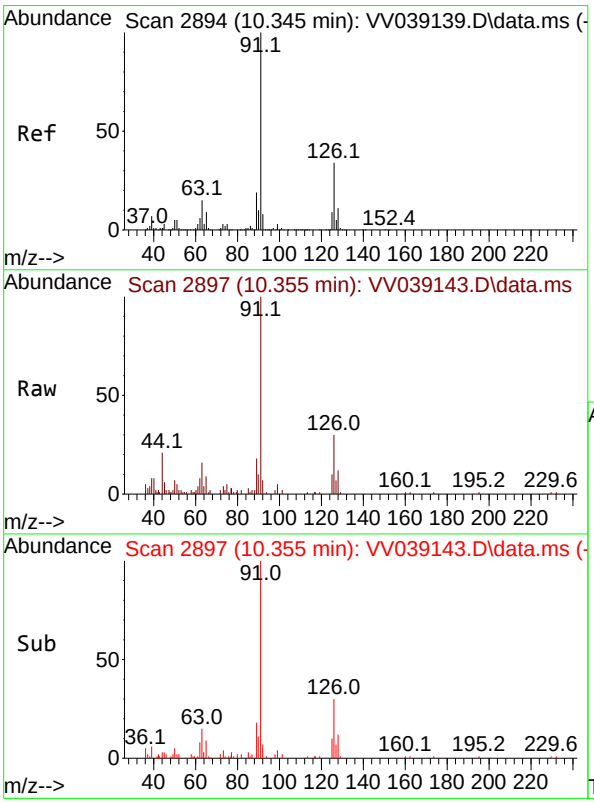
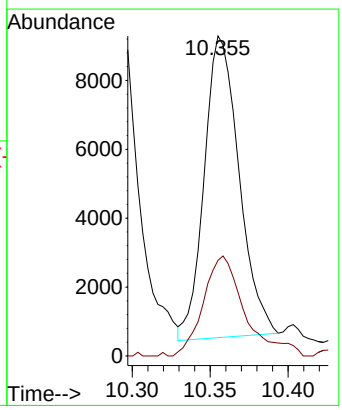
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

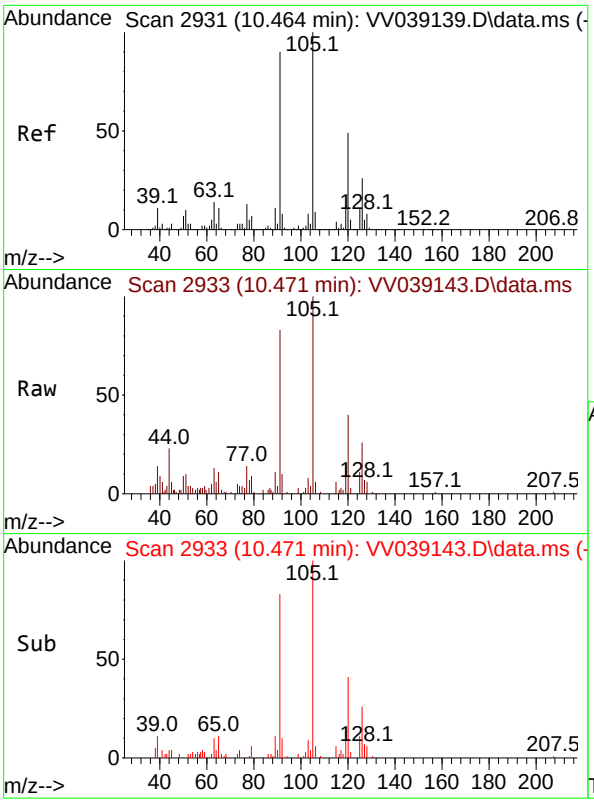


#79
2-Chlorotoluene
Concen: 0.800 ug/l
RT: 10.355 min Scan# 2897
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 13640

Ion	Ratio	Lower	Upper
91	100		
126	39.3	16.7	50.0





#80
1,3,5-Trimethylbenzene
Concen: 0.817 ug/l
RT: 10.471 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 1588

Ion	Ratio	Lower	Upper
105	100		
120	46.1	24.3	72.8

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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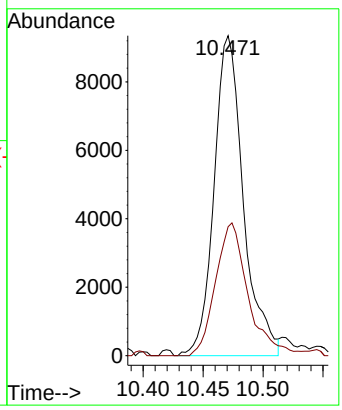
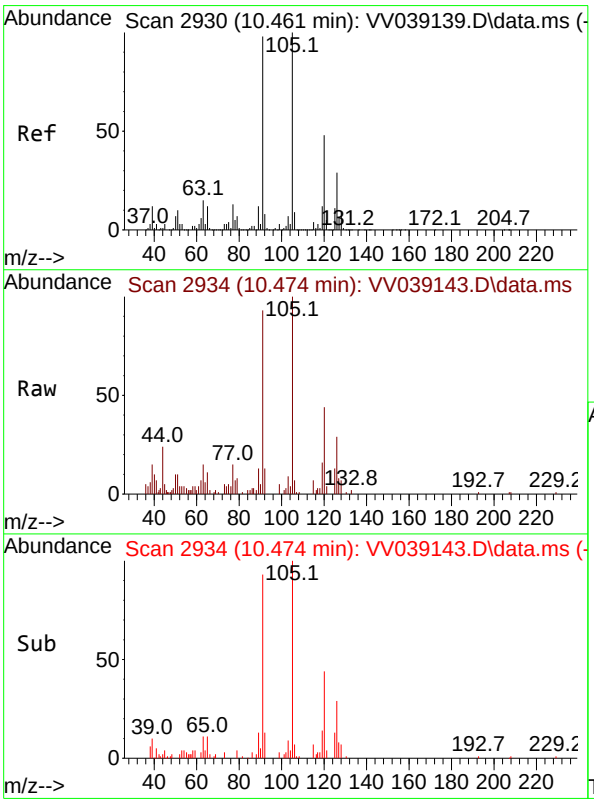
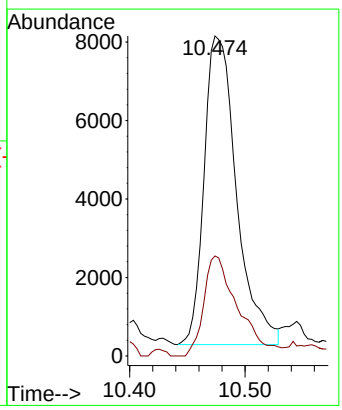


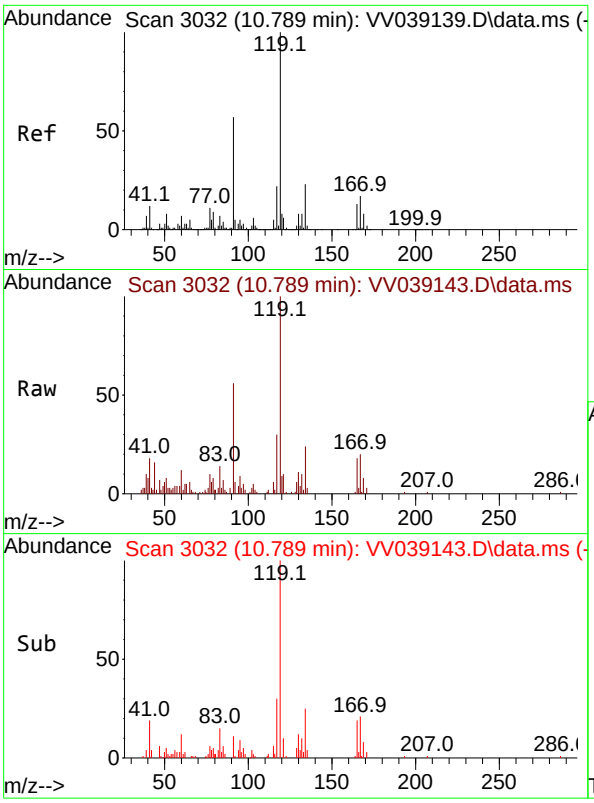


#82
4-Chlorotoluene
Concen: 0.777 ug/l
RT: 10.474 min Scan# 2934
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 15363

Ion	Ratio	Lower	Upper
91	100		
126	34.2	14.5	43.6





#83
tert-Butylbenzene
Concen: 0.956 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:119 Resp: 1855

Ion	Ratio	Lower	Upper
119	100		
91	56.8	28.5	85.6
134	24.3	11.5	34.4

Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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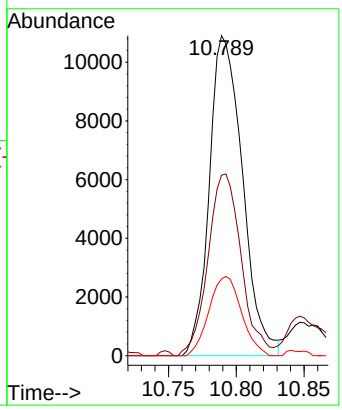
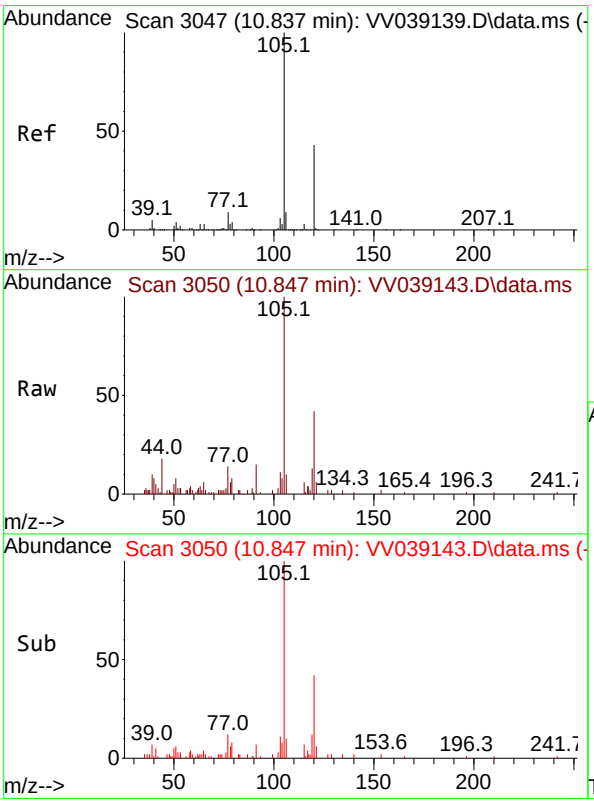
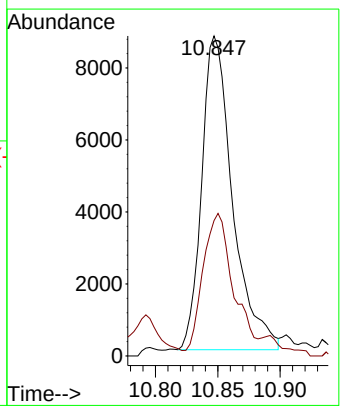


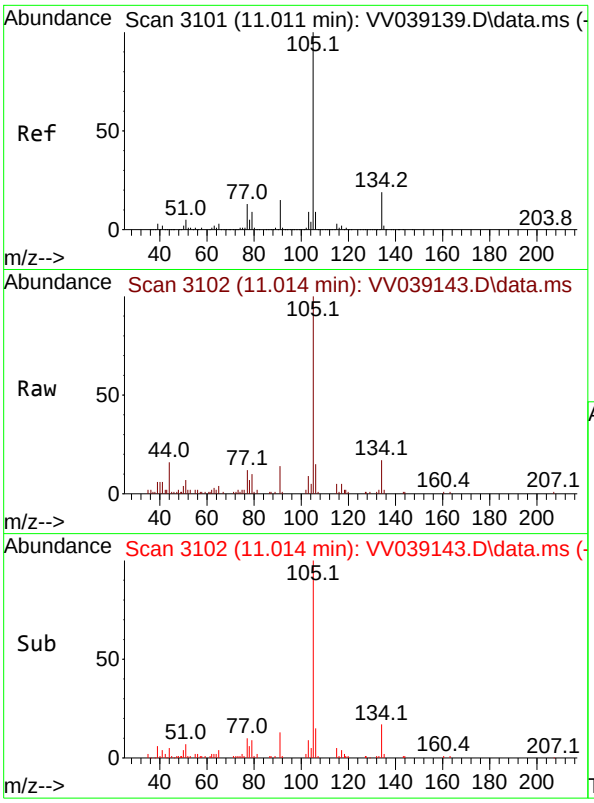


#84
1,2,4-Trimethylbenzene
Concen: 0.797 ug/l
RT: 10.847 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 15048

Ion	Ratio	Lower	Upper
105	100		
120	41.8	22.4	67.2

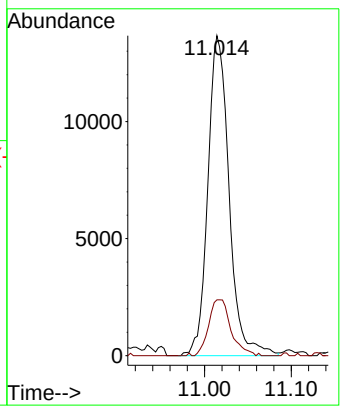




#85
sec-Butylbenzene
Concen: 0.904 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 2326

Ion	Ratio	Lower	Upper
105	100		
134	18.3	9.6	28.8



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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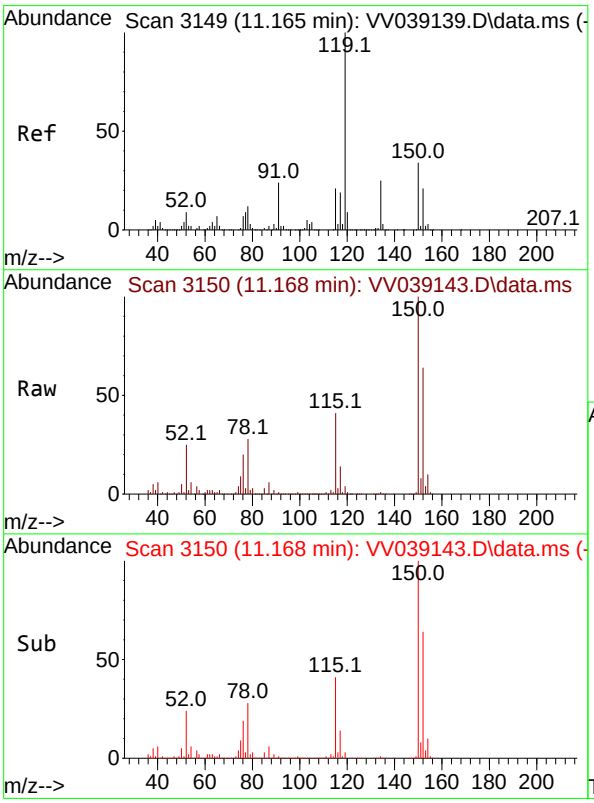
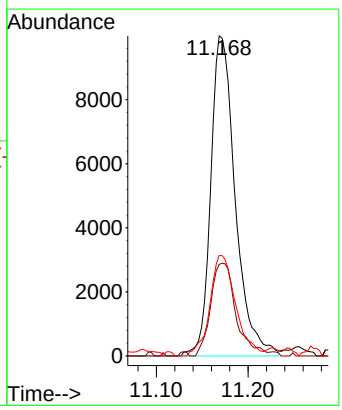
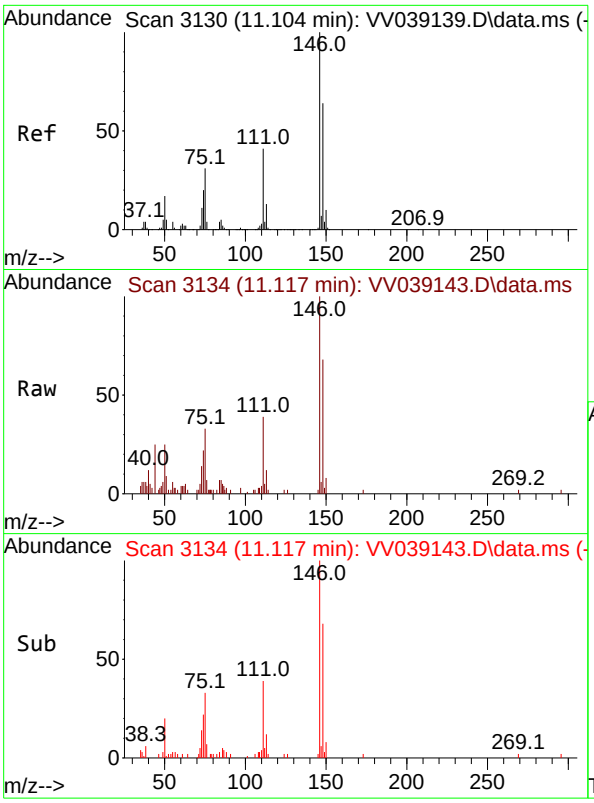


#86
p-Isopropyltoluene
Concen: 0.866 ug/l
RT: 11.168 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:119 Resp: 18549

Ion	Ratio	Lower	Upper
119	100		
134	29.9	12.7	38.0
91	33.1	12.0	36.1

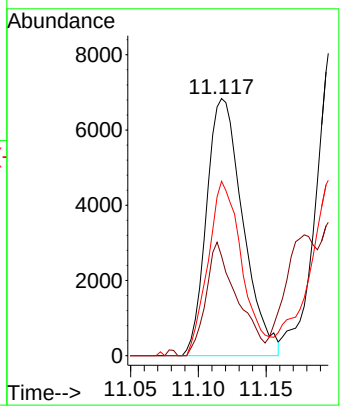




#87
1,3-Dichlorobenzene
Concen: 1.037 ug/l
RT: 11.117 min Scan# 3
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 1274

Ion	Ratio	Lower	Upper
146	100		
111	38.0	20.9	62.8
148	64.1	31.8	95.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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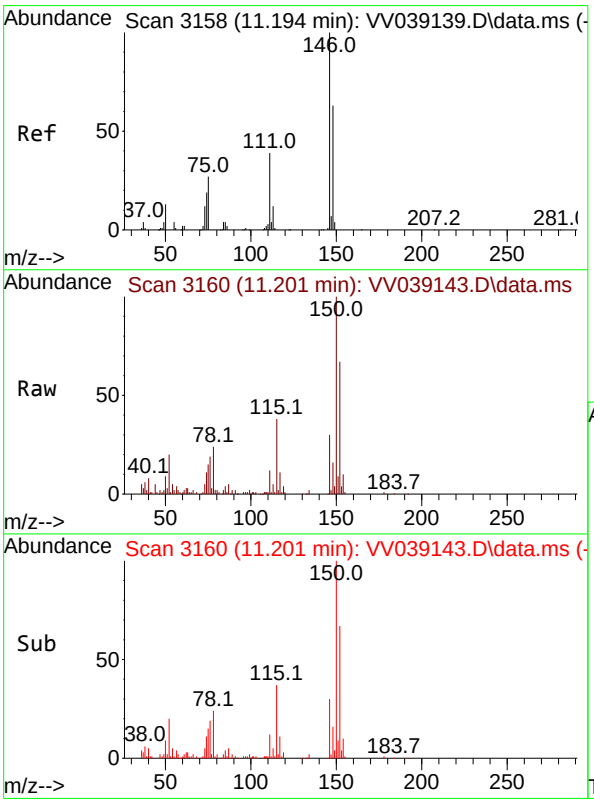
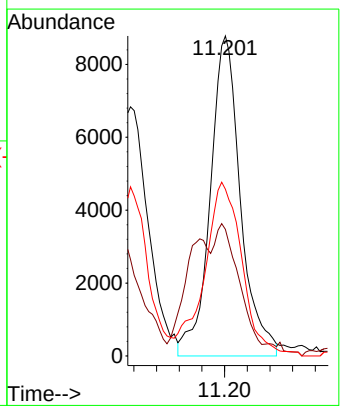
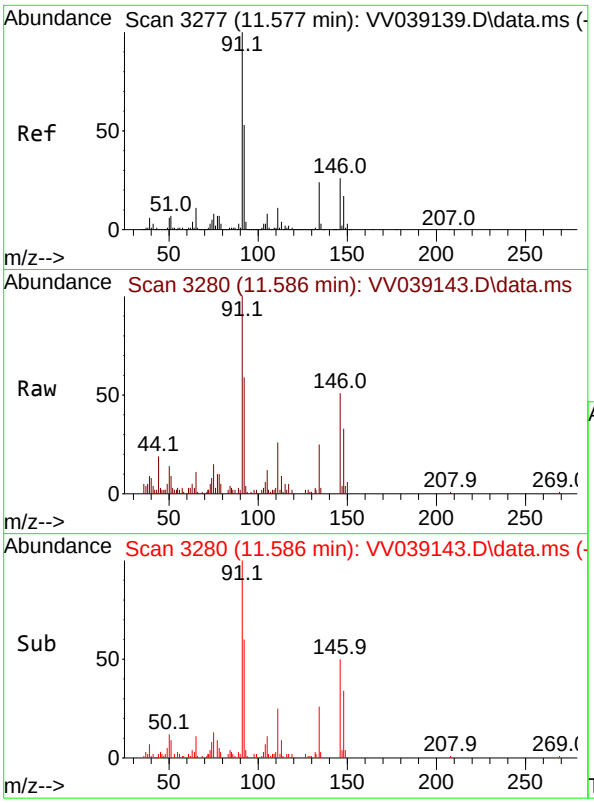


#88
1,4-Dichlorobenzene
Concen: 1.199 ug/l m
RT: 11.201 min Scan# 3160
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 16279

Ion	Ratio	Lower	Upper
146	100		
111	29.7	20.3	60.8
148	50.2	31.4	94.2

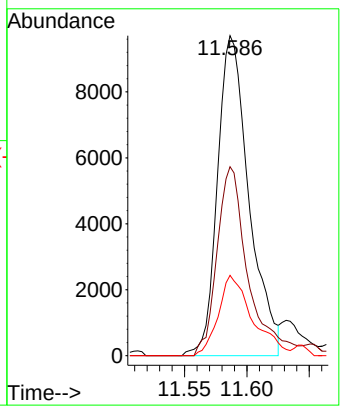




#89
n-Butylbenzene
Concen: 0.835 ug/l
RT: 11.586 min Scan# 3
Delta R.T. 0.009 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 1707

Ion	Ratio	Lower	Upper
91	100		
92	57.8	26.6	79.8
134	27.3	12.1	36.3



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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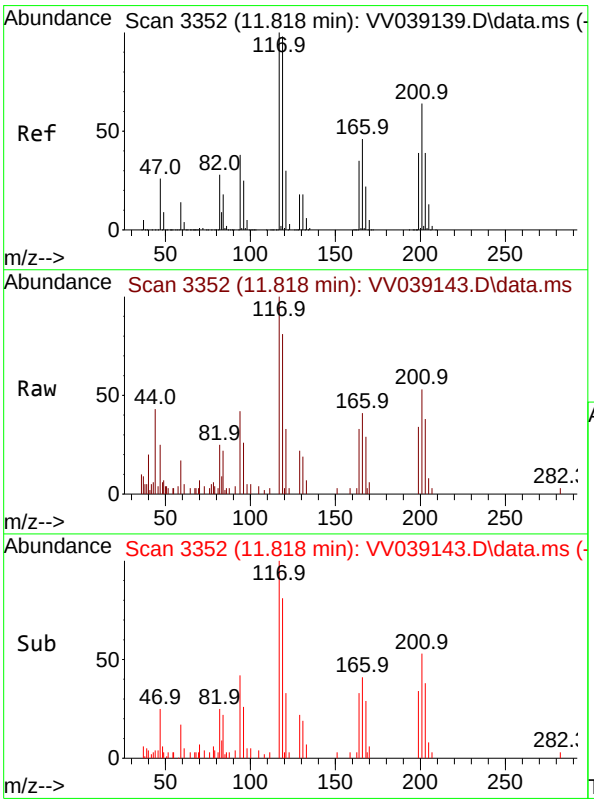
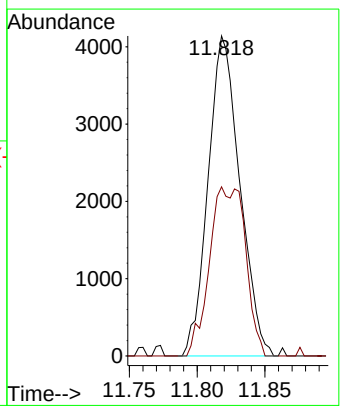
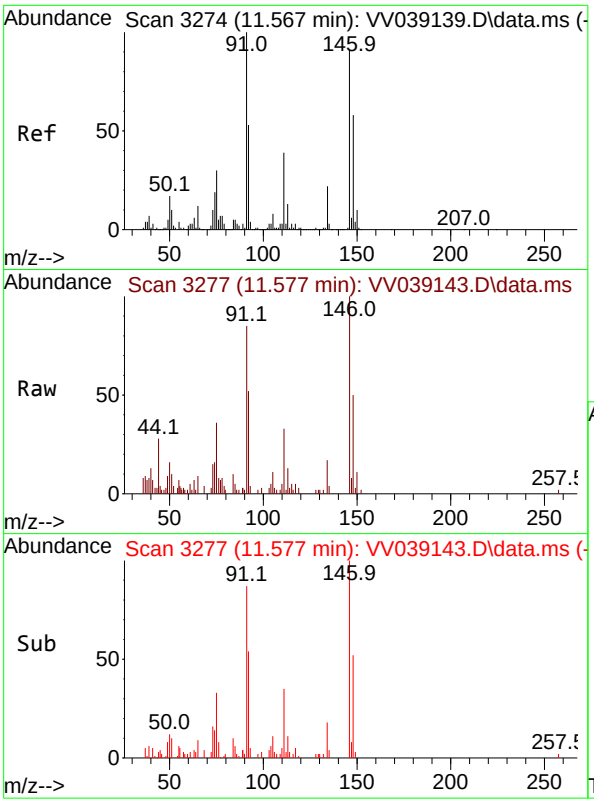


#90
Hexachloroethane
Concen: 1.277 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:117 Resp: 6736

Ion	Ratio	Lower	Upper
117	100		
201	60.0	32.3	96.8

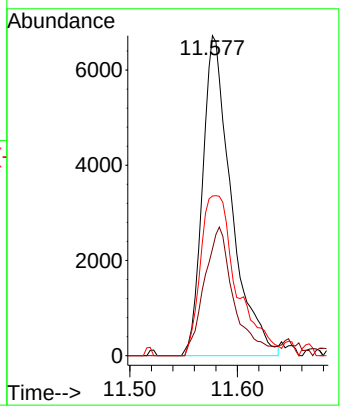




#91
1,2-Dichlorobenzene
Concen: 1.088 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 1248

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.5	64.5
148	63.0	31.9	95.7



Instrument :
MSVOA_V
ClientSampleId :
VSTDICC001

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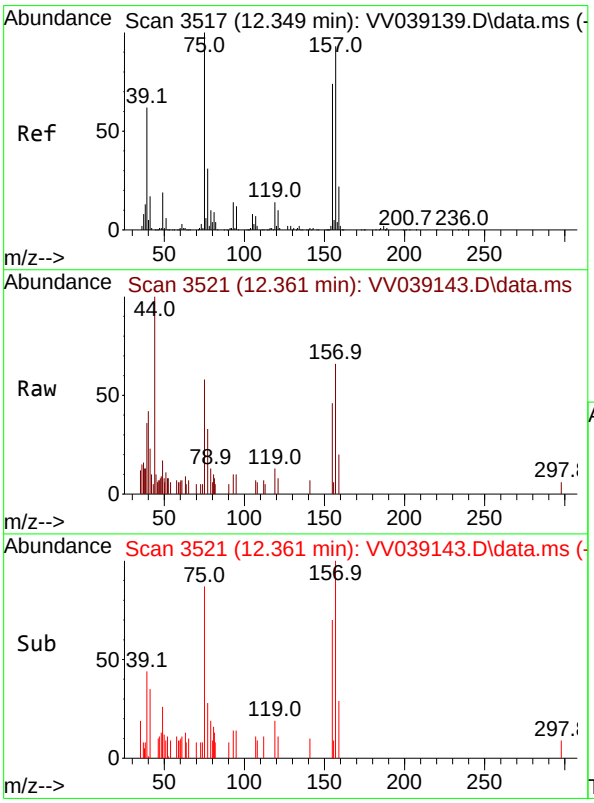
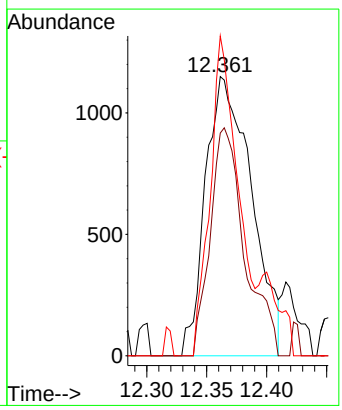
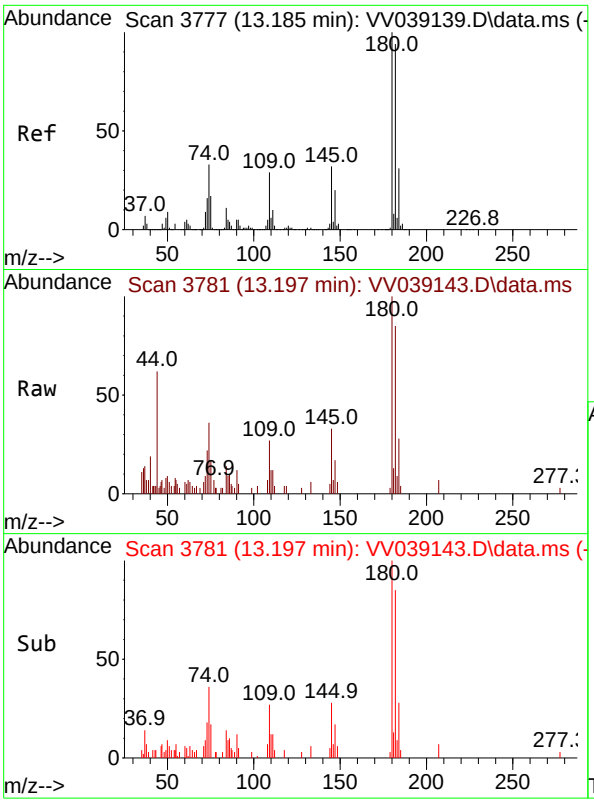


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.690 ug/l
RT: 12.361 min Scan# 3521
Delta R.T. 0.012 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 3071

Ion	Ratio	Lower	Upper
75	100		
155	60.9	38.6	115.8
157	68.7	49.5	148.3

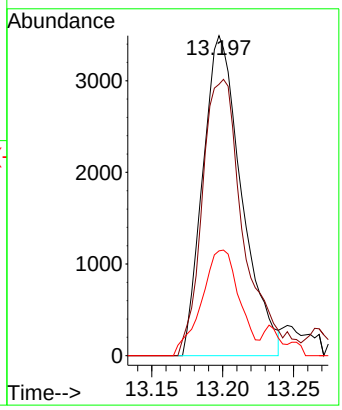




#93
1,2,4-Trichlorobenzene
Concen: 1.008 ug/l
RT: 13.197 min Scan# 3
Delta R.T. 0.012 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:180 Resp: 663

Ion	Ratio	Lower	Upper
180	100		
182	92.8	47.1	141.4
145	32.5	16.3	48.8



Instrument :
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ClientSampleId :
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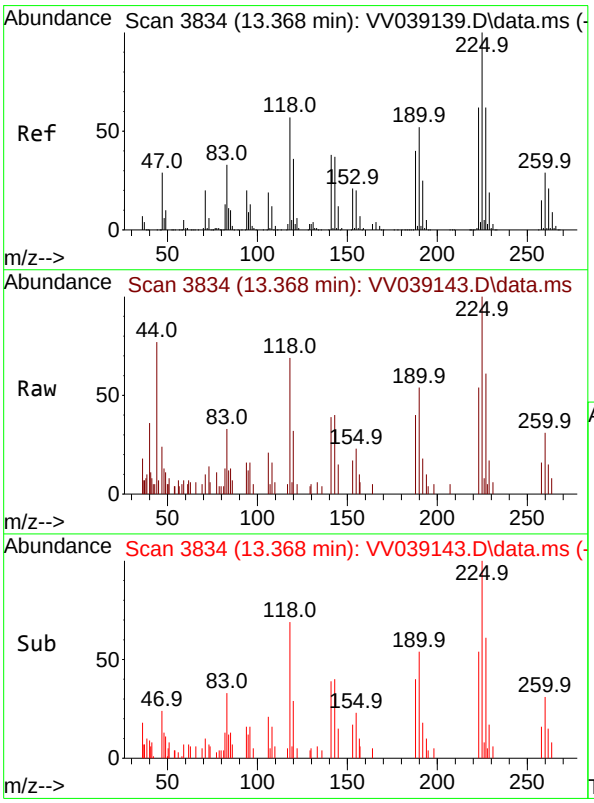
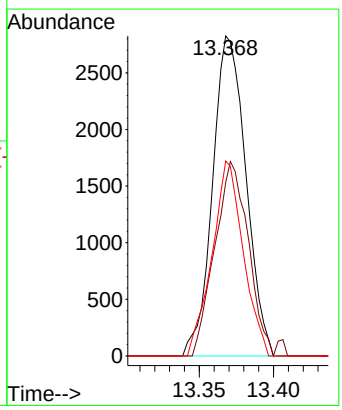
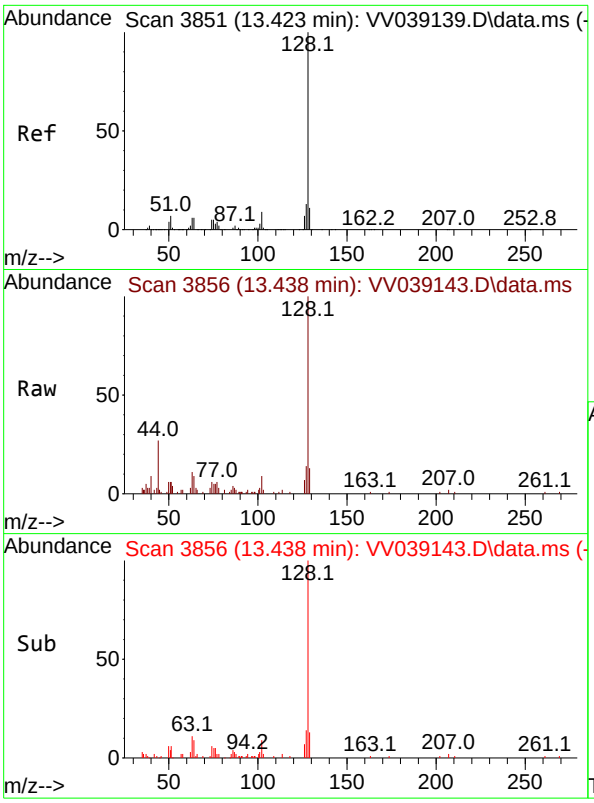


#94
Hexachlorobutadiene
Concen: 1.288 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:225 Resp: 4406

Ion	Ratio	Lower	Upper
225	100		
223	61.1	31.6	94.7
227	57.1	31.8	95.4

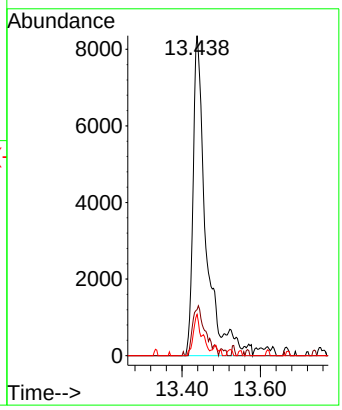




#95
Naphthalene
Concen: 0.931 ug/l m
RT: 13.438 min Scan# 3
Delta R.T. 0.015 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:128 Resp: 1970

Ion	Ratio	Lower	Upper
128	100		
127	0.6	10.3	15.5#
129	0.6	8.6	13.0#



Instrument :
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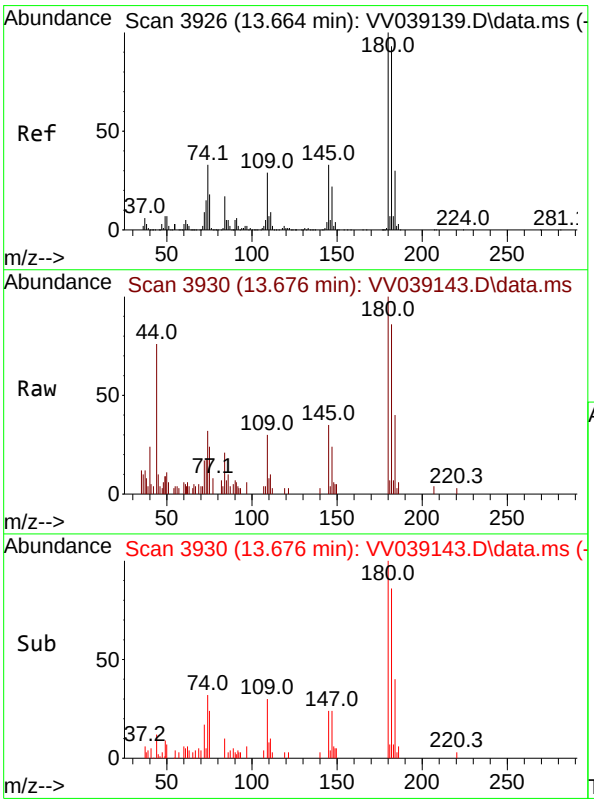
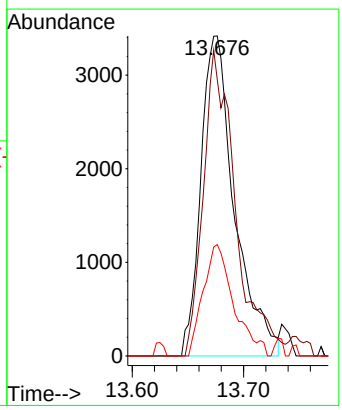


#96
1,2,3-Trichlorobenzene
Concen: 1.067 ug/l
RT: 13.676 min Scan# 3930
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:180 Resp: 7184

Ion	Ratio	Lower	Upper
180	100		
182	91.3	46.9	140.8
145	31.6	17.0	51.0



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	530687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	821122	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	811351	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	500088	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	368982	48.041	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 96.080%			
35) Dibromofluoromethane	4.500	113	335549	50.832	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 101.660%			
50) Toluene-d8	7.236	98	1012009	52.199	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 104.400%			
62) 4-Bromofluorobenzene	10.001	95	453523	56.823	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 113.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	380034	45.238	ug/l	98
3) Chloromethane	1.230	50	419560	46.523	ug/l	99
4) Vinyl Chloride	1.298	62	438971	45.467	ug/l	100
5) Bromomethane	1.494	94	274408	45.085	ug/l	100
6) Chloroethane	1.558	64	288768	50.873	ug/l	97
7) Trichlorofluoromethane	1.725	101	649327	46.452	ug/l	98
8) Diethyl Ether	1.918	74	239410	46.136	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.082	101	386460	46.465	ug/l	98
10) Methyl Iodide	2.198	142	394299	49.783	ug/l	100
11) Tert butyl alcohol	2.571	59	409358	252.173	ug/l	99
12) 1,1-Dichloroethene	2.082	96	367440	45.922	ug/l	99
13) Acrolein	2.011	56	76596	271.925	ug/l	95
14) Allyl chloride	2.359	41	673070	47.092	ug/l	100
15) Acrylonitrile	2.674	53	1247029	239.637	ug/l	100
16) Acetone	2.117	43	1131047	237.325	ug/l	99
17) Carbon Disulfide	2.252	76	1114937	45.563	ug/l	99
18) Methyl Acetate	2.381	43	564211	49.579	ug/l	99
19) Methyl tert-butyl Ether	2.712	73	1204021	47.223	ug/l	100
20) Methylene Chloride	2.458	84	426790	51.536	ug/l	99
21) trans-1,2-Dichloroethene	2.703	96	391103	45.915	ug/l	100
22) Diisopropyl ether	3.217	45	1355158	49.556	ug/l	95
23) Vinyl Acetate	3.188	43	5946893	248.597	ug/l	100
24) 1,1-Dichloroethane	3.117	63	761495	45.536	ug/l	100
25) 2-Butanone	3.867	43	1611713	262.050	ug/l	99
26) 2,2-Dichloropropane	3.812	77	648277	43.721	ug/l	99
27) cis-1,2-Dichloroethene	3.818	96	459958	48.960	ug/l	99
28) Bromochloromethane	4.146	49	384995	52.149	ug/l	100
29) Tetrahydrofuran	4.236	42	1064545	276.528	ug/l	99
30) Chloroform	4.278	83	820367	46.980	ug/l	99
31) Cyclohexane	4.584	56	654806	47.799	ug/l	99
32) 1,1,1-Trichloroethane	4.513	97	709351	46.922	ug/l	99
36) 1,1-Dichloropropene	4.744	75	537027	53.809	ug/l	99
37) Ethyl Acetate	3.976	43	630342	52.050	ug/l	99
38) Carbon Tetrachloride	4.735	117	603187	49.452	ug/l	99
39) Methylcyclohexane	6.047	83	692131	57.426	ug/l	98
40) Benzene	5.008	78	1699505	52.293	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.159	41	282895	51.602	ug/l		99
42) 1,2-Dichloroethane	5.040	62	583550	51.245	ug/l		99
43) Isopropyl Acetate	5.194	43	924654	55.998	ug/l		99
44) Trichloroethene	5.831	130	384092	51.216	ug/l		95
45) 1,2-Dichloropropane	6.088	63	440211	54.495	ug/l		97
46) Dibromomethane	6.223	93	316032	51.116	ug/l		97
47) Bromodichloromethane	6.426	83	654836	51.232	ug/l		99
48) Methyl methacrylate	6.297	41	442395	59.104	ug/l		98
49) 1,4-Dioxane	6.291	88	136899	1133.346	ug/l		99
51) 4-Methyl-2-Pentanone	7.149	43	3292794	303.119	ug/l		100
52) Toluene	7.307	92	1064972	56.517	ug/l		99
53) t-1,3-Dichloropropene	7.574	75	621814	55.823	ug/l		99
54) cis-1,3-Dichloropropene	6.947	75	690532	56.154	ug/l		98
55) 1,1,2-Trichloroethane	7.760	97	432856	51.231	ug/l		99
56) Ethyl methacrylate	7.715	69	610159	60.810	ug/l		99
57) 1,3-Dichloropropane	7.934	76	716955	53.769	ug/l		100
58) 2-Chloroethyl Vinyl ether	6.812	63	1474938	259.936	ug/l		99
59) 2-Hexanone	8.063	43	2462493	280.545	ug/l		100
60) Dibromochloromethane	8.169	129	499908	51.926	ug/l		99
61) 1,2-Dibromoethane	8.272	107	460510	53.295	ug/l		100
64) Tetrachloroethene	7.895	164	346271	50.954	ug/l		99
65) Chlorobenzene	8.802	112	1153503	51.041	ug/l		99
66) 1,1,1,2-Tetrachloroethane	8.899	131	409401	50.136	ug/l		100
67) Ethyl Benzene	8.937	91	1964943	57.438	ug/l		100
68) m/p-Xylenes	9.062	106	1592118	120.582	ug/l		100
69) o-Xylene	9.468	106	706301	60.414	ug/l		98
70) Styrene	9.484	104	1306032	52.671	ug/l		99
71) Bromoform	9.654	173	335410	52.585	ug/l	#	98
73) Isopropylbenzene	9.857	105	1966280	54.210	ug/l		100
74) N-amyl acetate	9.725	43	841099	58.135	ug/l		99
75) 1,1,2,2-Tetrachloroethane	10.165	83	724860	45.610	ug/l		100
76) 1,2,3-Trichloropropane	10.197	75	563785m	49.515	ug/l		
77) Bromobenzene	10.140	156	462931	49.193	ug/l		99
78) n-propylbenzene	10.278	91	2444658	55.347	ug/l		99
79) 2-Chlorotoluene	10.349	91	1412046	53.426	ug/l		99
80) 1,3,5-Trimethylbenzene	10.464	105	1709353	56.698	ug/l		99
81) trans-1,4-Dichloro-2-b...	9.927	75	247871	52.262	ug/l		99
82) 4-Chlorotoluene	10.461	91	1680201	54.824	ug/l		100
83) tert-Butylbenzene	10.789	119	1610870	53.584	ug/l		100
84) 1,2,4-Trimethylbenzene	10.837	105	1695994	57.944	ug/l		100
85) sec-Butylbenzene	11.011	105	2189540	54.911	ug/l		100
86) p-Isopropyltoluene	11.165	119	1841747	55.495	ug/l		100
87) 1,3-Dichlorobenzene	11.104	146	939483	49.328	ug/l		99
88) 1,4-Dichlorobenzene	11.194	146	971665	46.502	ug/l		99
89) n-Butylbenzene	11.580	91	1798412	56.740	ug/l		100
90) Hexachloroethane	11.818	117	370188	45.296	ug/l		98
91) 1,2-Dichlorobenzene	11.567	146	878347	49.362	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.349	75	150399	52.479	ug/l		98
93) 1,2,4-Trichlorobenzene	13.185	180	533045	52.259	ug/l		99
94) Hexachlorobutadiene	13.368	225	243496	45.942	ug/l		99
95) Naphthalene	13.422	128	1919772	58.231	ug/l		100
96) 1,2,3-Trichlorobenzene	13.667	180	549079	52.633	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

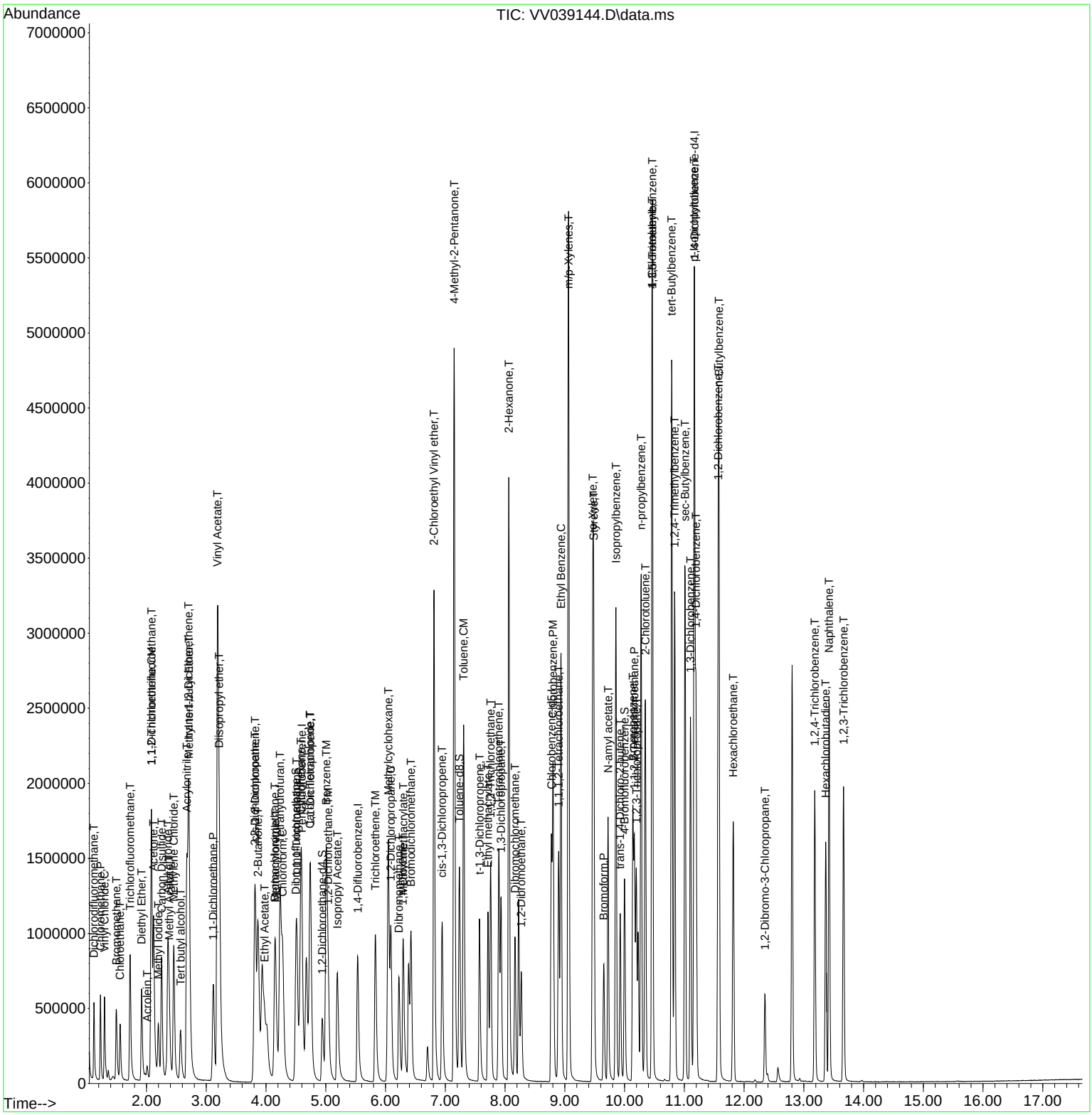
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

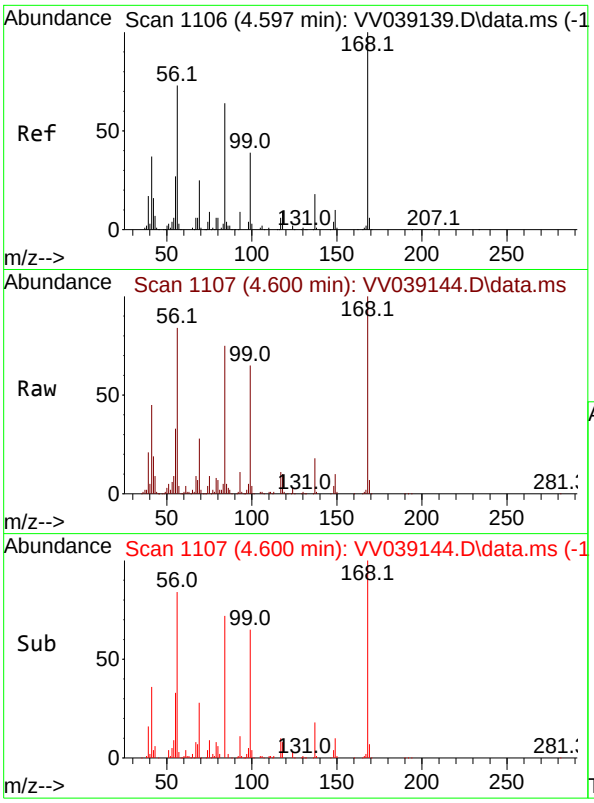
Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

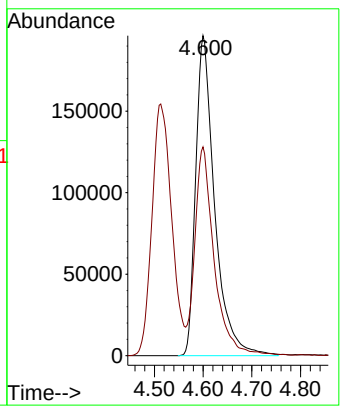




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:168 Resp: 53068

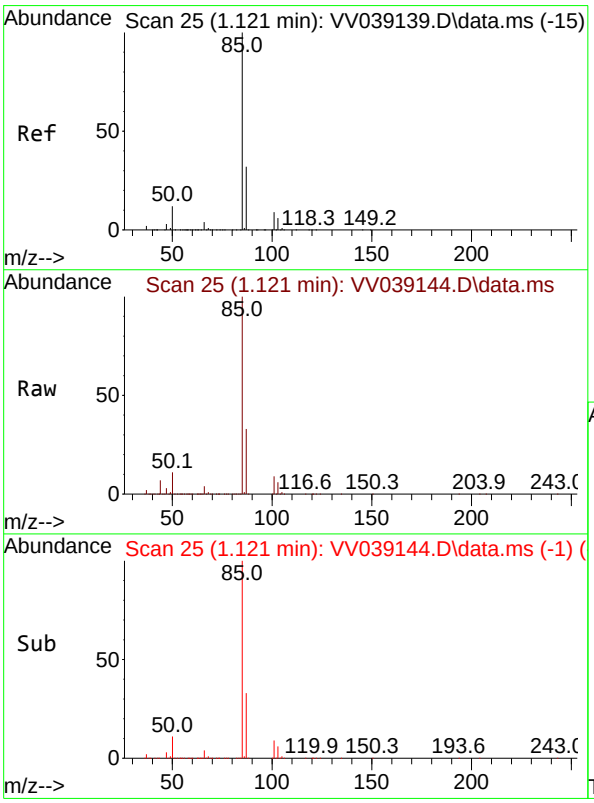
Ion	Ratio	Lower	Upper
168	100		
99	64.8	49.6	74.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

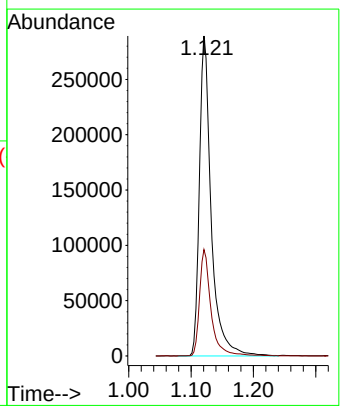
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

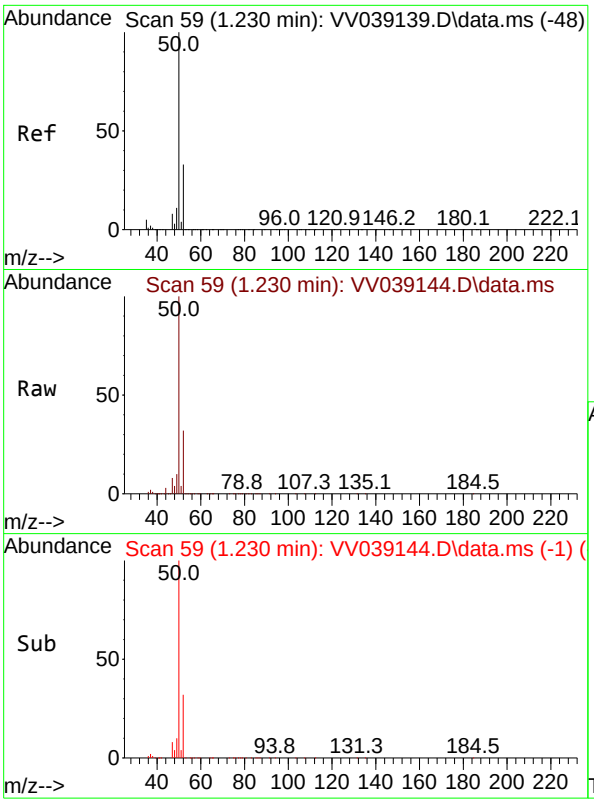


#2
Dichlorodifluoromethane
Concen: 45.238 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 85 Resp: 380034

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.0	47.9

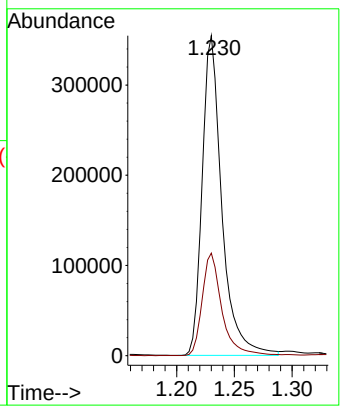




#3
Chloromethane
Concen: 46.523 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 50 Resp: 41956

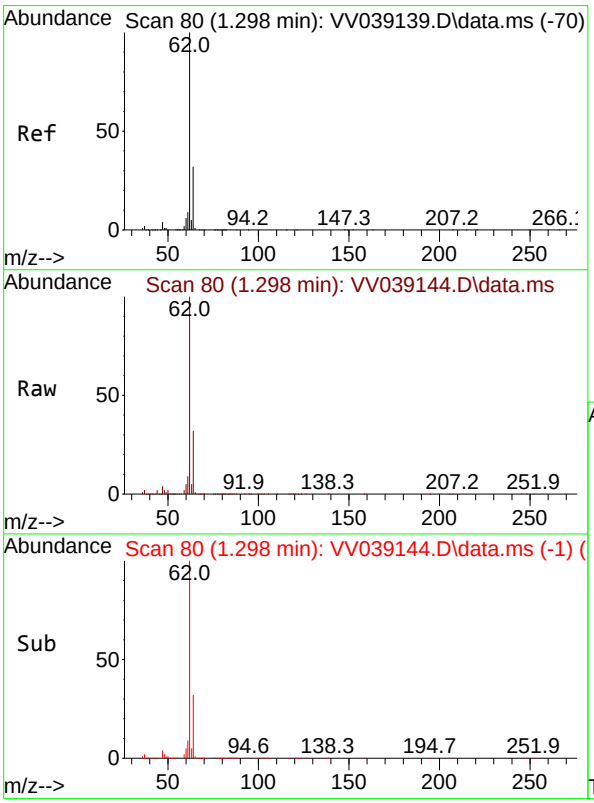
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.0	39.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

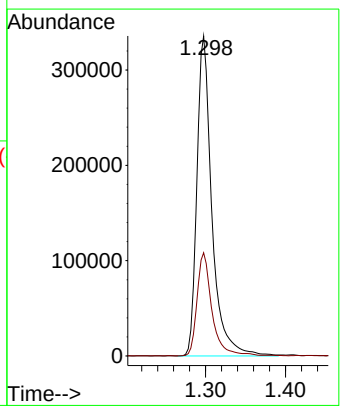
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

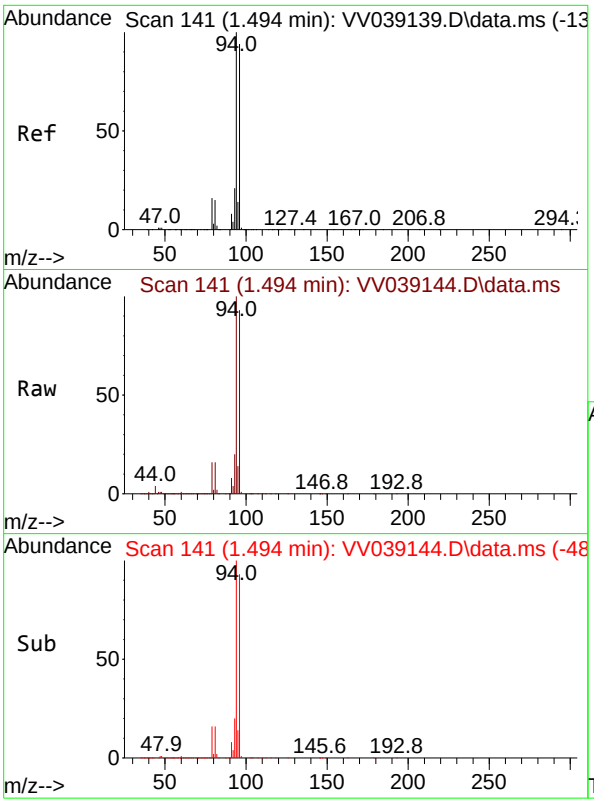


#4
Vinyl Chloride
Concen: 45.467 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 62 Resp: 438971

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.6	38.4

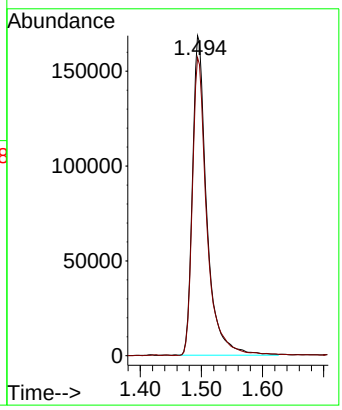




#5
Bromomethane
Concen: 45.085 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 94 Resp: 27440

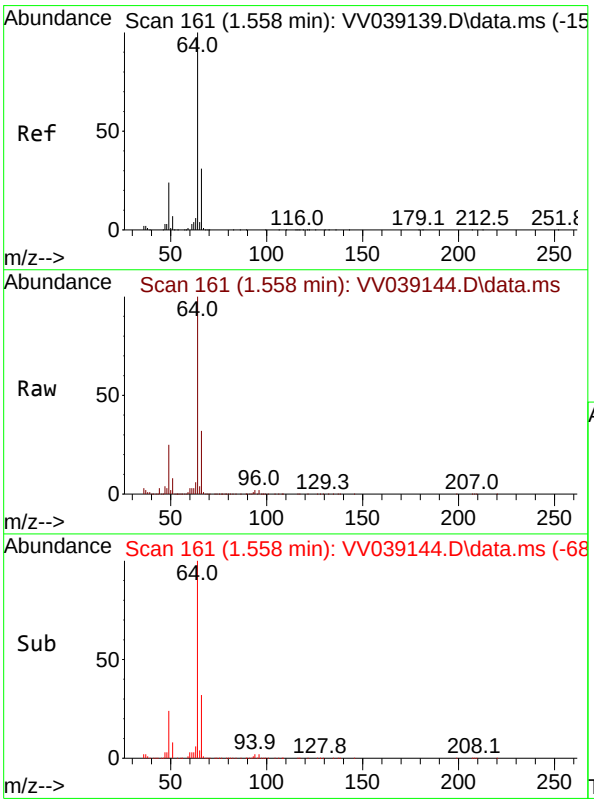
Ion	Ratio	Lower	Upper
94	100		
96	93.2	74.9	112.3



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

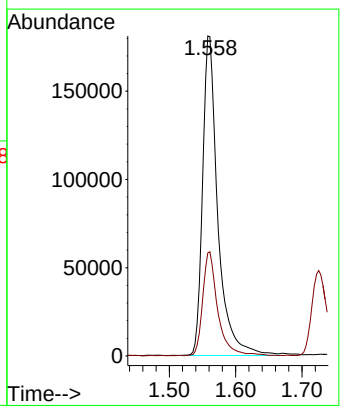
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

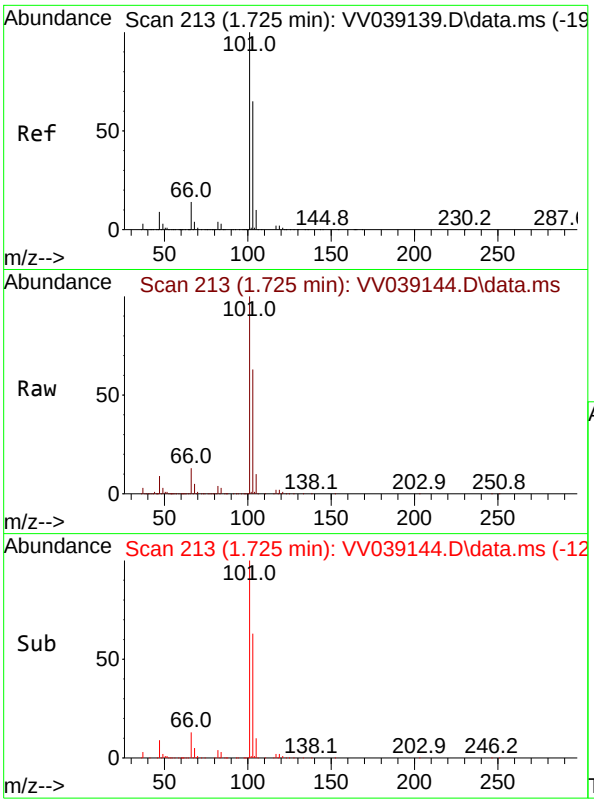


#6
Chloroethane
Concen: 50.873 ug/l
RT: 1.558 min Scan# 161
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 64 Resp: 288768

Ion	Ratio	Lower	Upper
64	100		
66	32.1	24.6	36.8

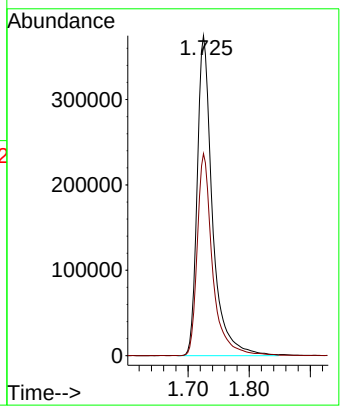




#7
Trichlorofluoromethane
Concen: 46.452 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:101 Resp: 64932

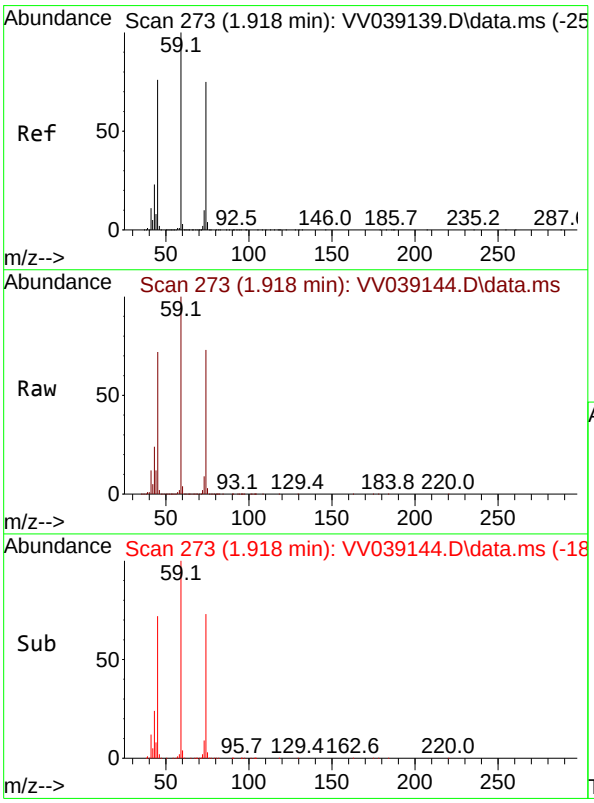
Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.0	78.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

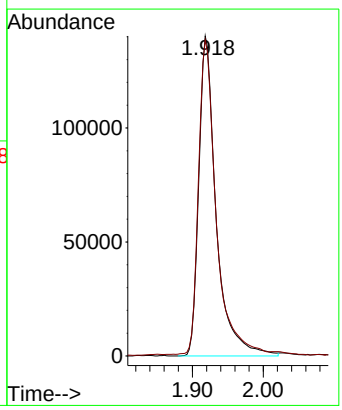
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

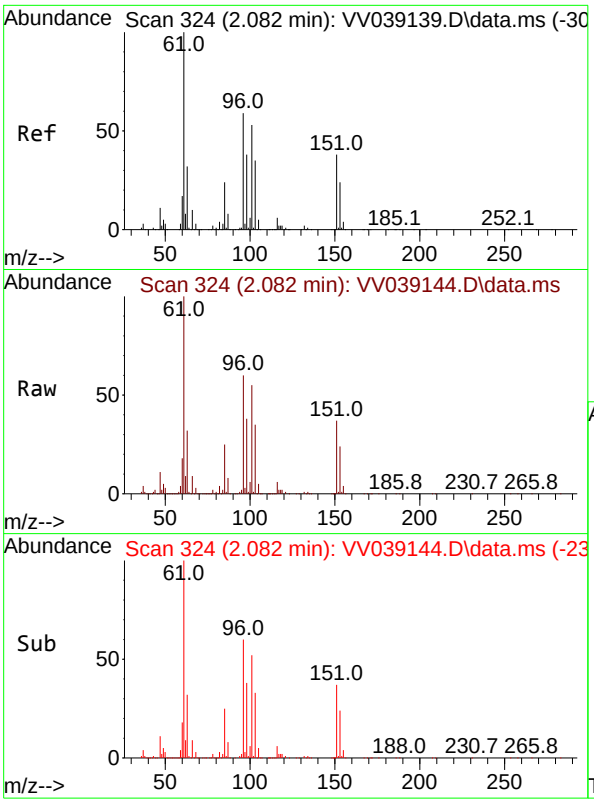


#8
Diethyl Ether
Concen: 46.136 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 74 Resp: 239410

Ion	Ratio	Lower	Upper
74	100		
45	98.9	49.6	148.8

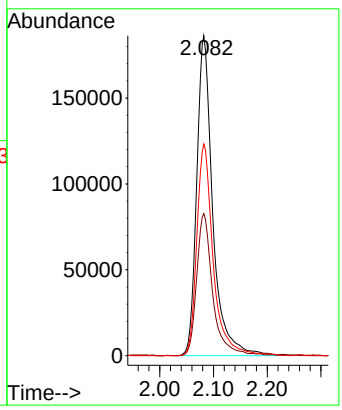




#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.465 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:101 Resp: 38646

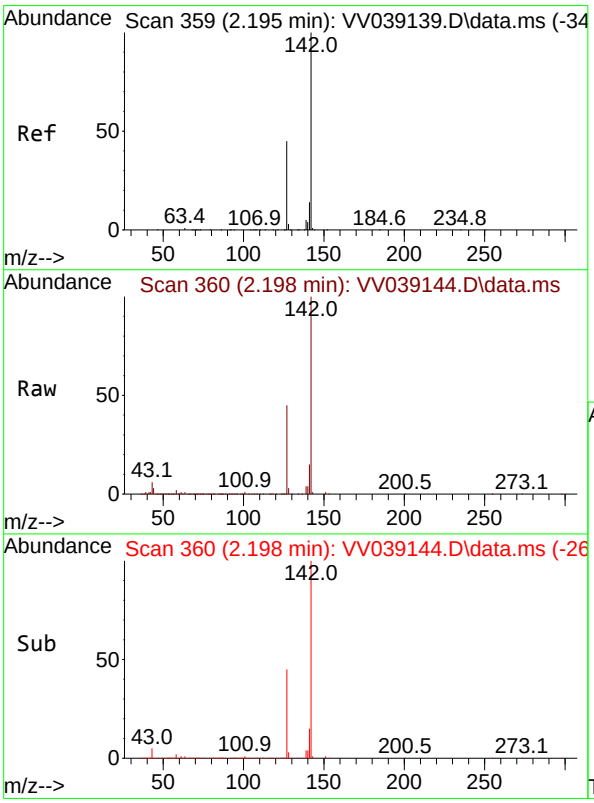
Ion	Ratio	Lower	Upper
101	100		
85	44.1	36.2	54.2
151	68.0	56.3	84.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

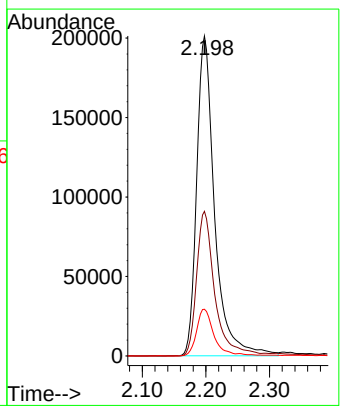
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

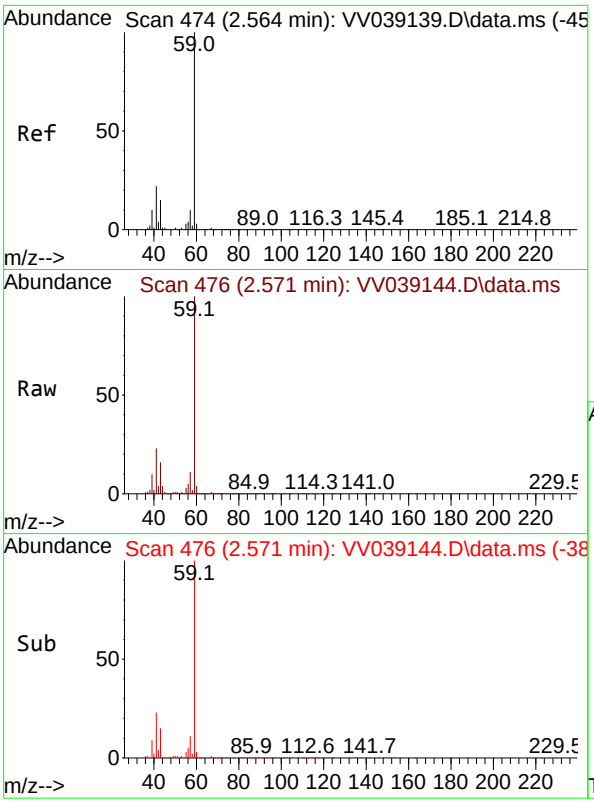


#10
Methyl Iodide
Concen: 49.783 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:142 Resp: 394299

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.3	54.5
141	13.8	11.2	16.8

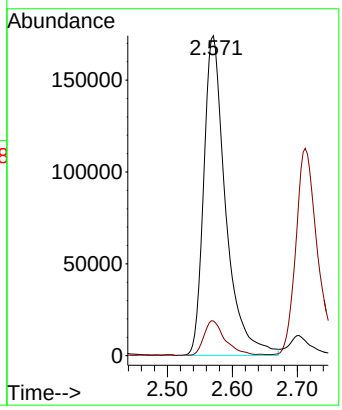




#11
Tert butyl alcohol
Concen: 252.173 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 59 Resp: 40935

Ion	Ratio	Lower	Upper
59	100		
57	10.3	7.8	11.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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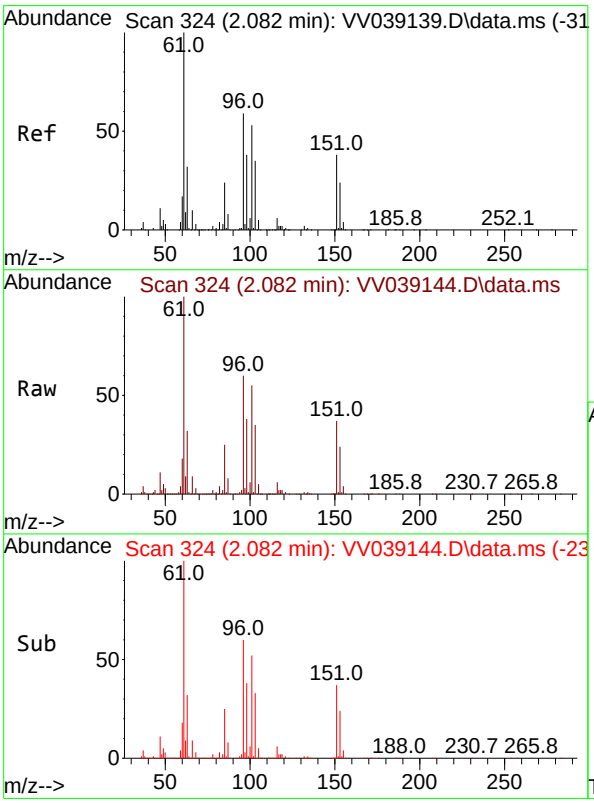
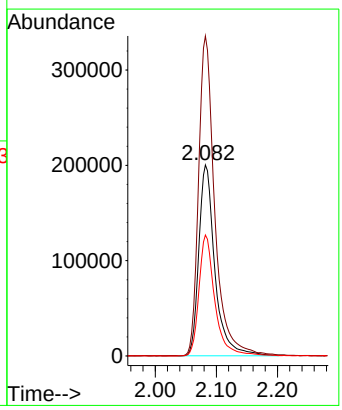
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

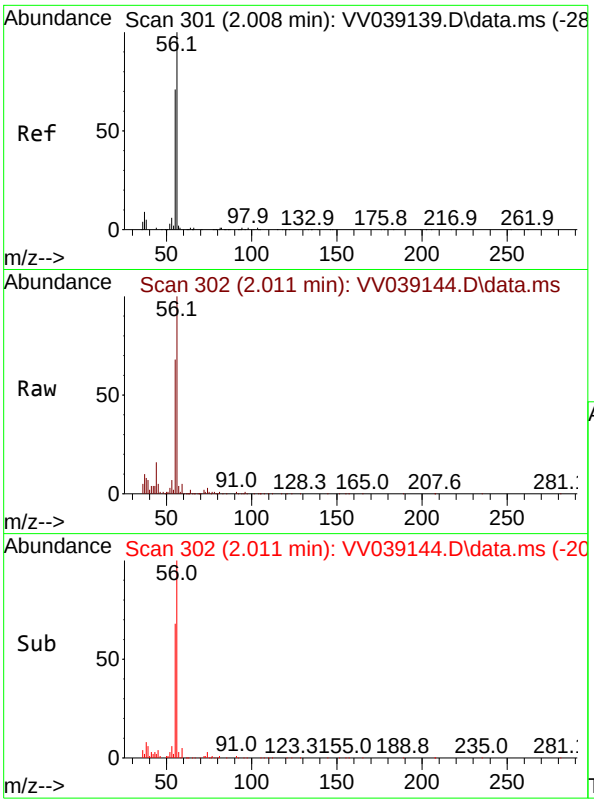


#12
1,1-Dichloroethene
Concen: 45.922 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 367440

Ion	Ratio	Lower	Upper
96	100		
61	167.5	136.0	204.0
98	63.3	51.0	76.6

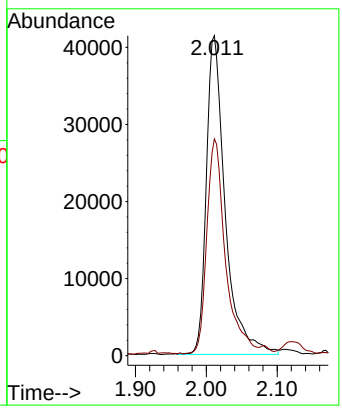




#13
Acrolein
Concen: 271.925 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 56 Resp: 7659

Ion	Ratio	Lower	Upper
56	100		
55	66.3	56.2	84.4



Instrument :
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ClientSampleId :
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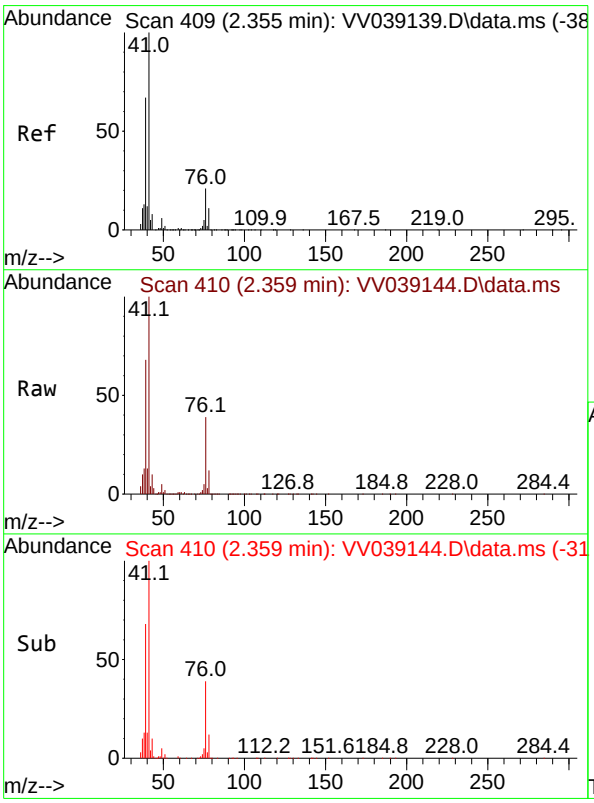
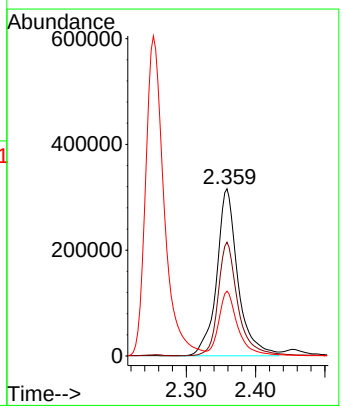
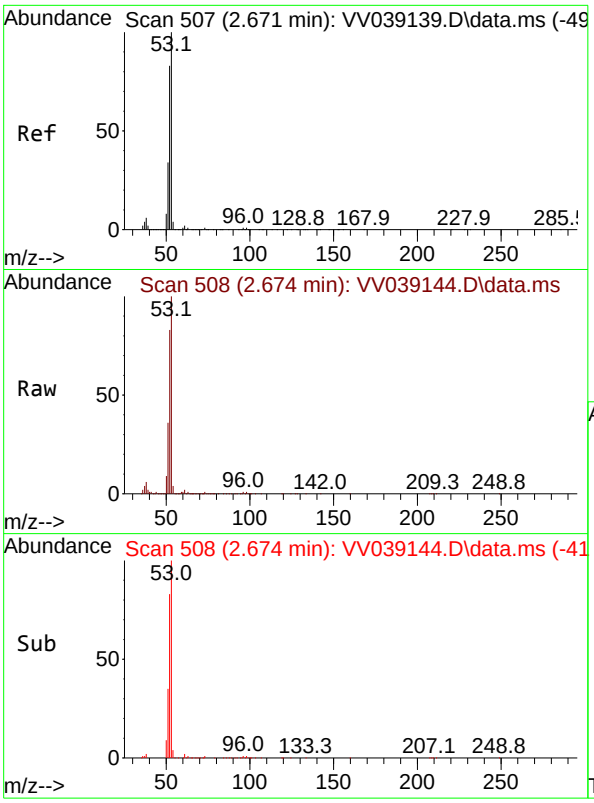


#14
Allyl chloride
Concen: 47.092 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 673070

Ion	Ratio	Lower	Upper
41	100		
39	63.6	51.0	76.6
76	34.9	28.2	42.4

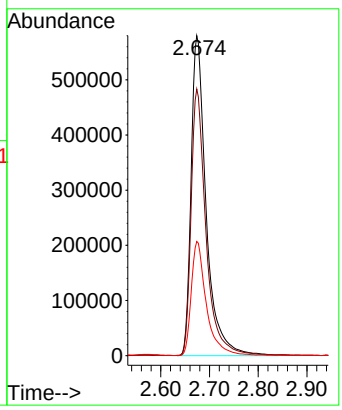




#15
Acrylonitrile
Concen: 239.637 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 53 Resp: 124702

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.1	99.1
51	35.7	28.5	42.7



Instrument :
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ClientSampleId :
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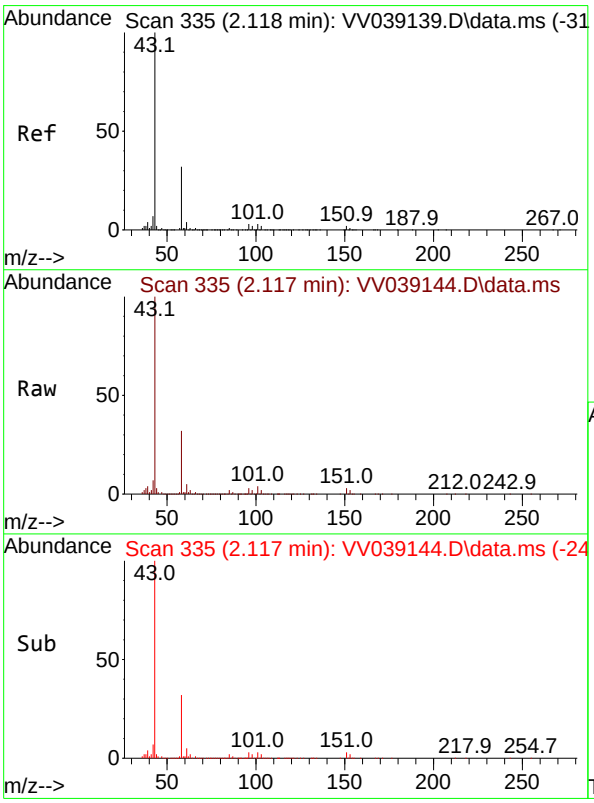
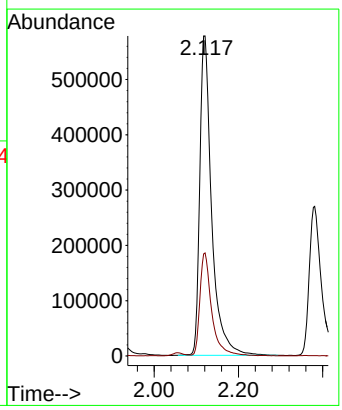
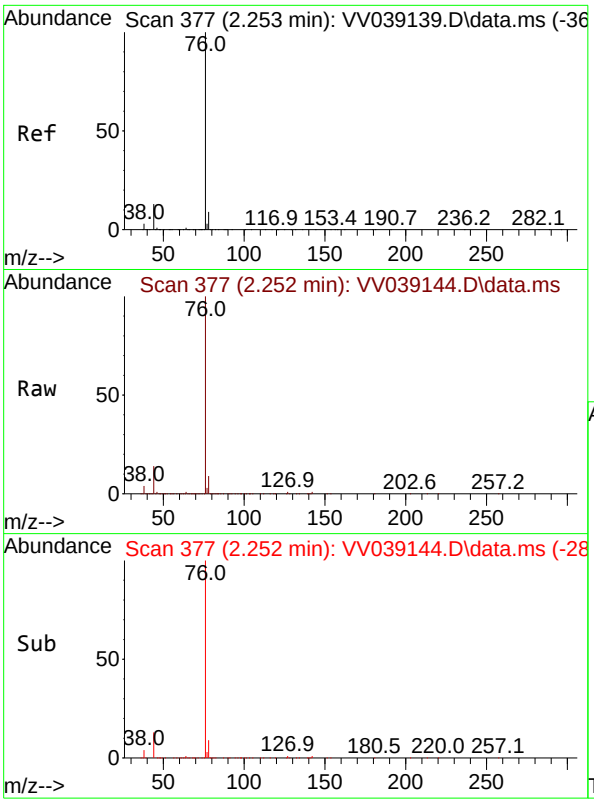


#16
Acetone
Concen: 237.325 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 1131047

Ion	Ratio	Lower	Upper
43	100		
58	31.9	25.8	38.6

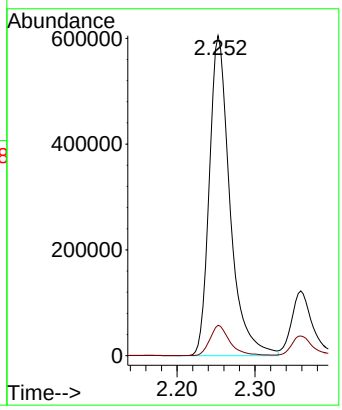




#17
Carbon Disulfide
Concen: 45.563 ug/l
RT: 2.252 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 76 Resp: 111493

Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.4	11.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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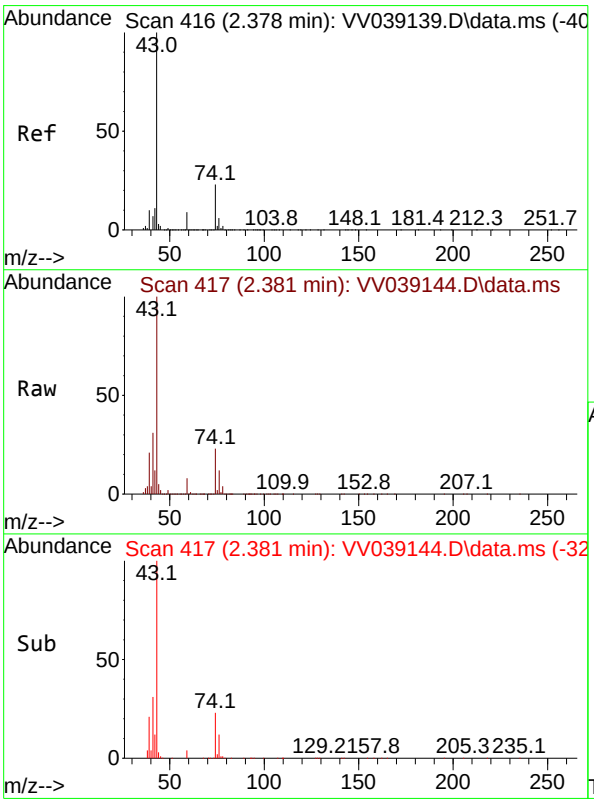
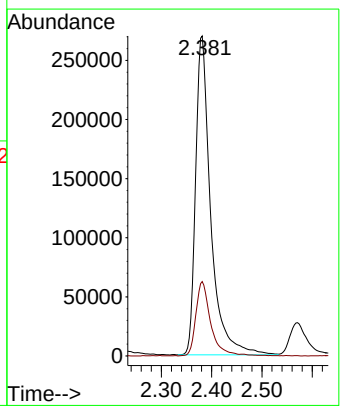
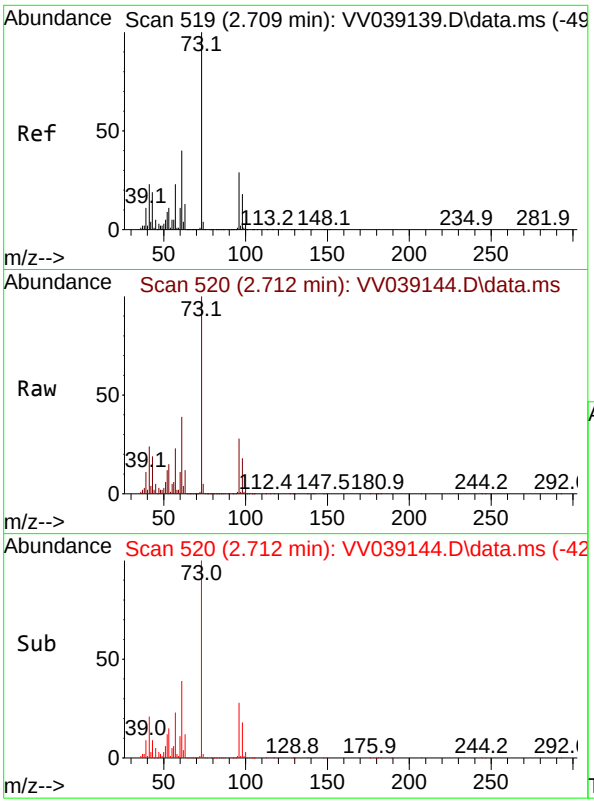


#18
Methyl Acetate
Concen: 49.579 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 564211

Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.6	27.8

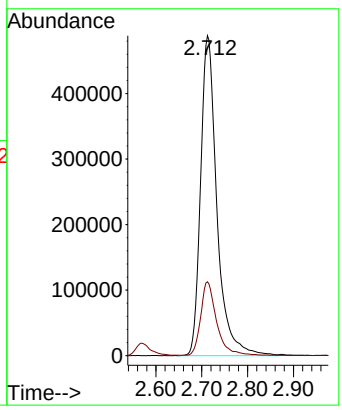




#19
Methyl tert-butyl Ether
Concen: 47.223 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 73 Resp: 120402

Ion	Ratio	Lower	Upper
73	100		
57	23.0	18.2	27.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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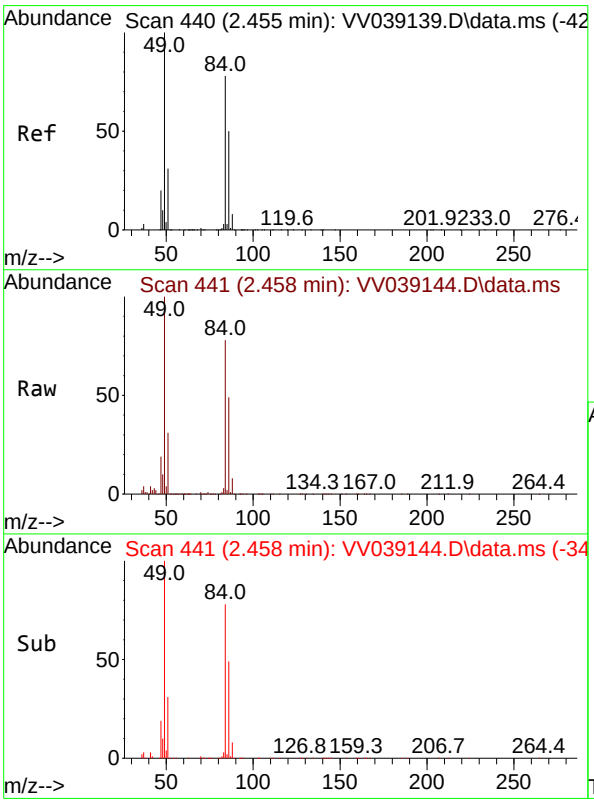
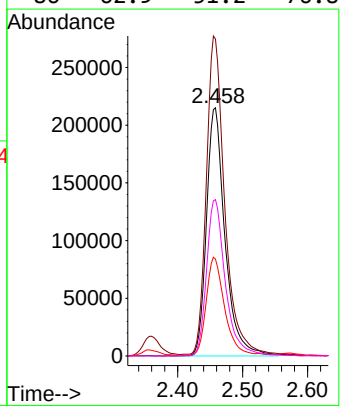
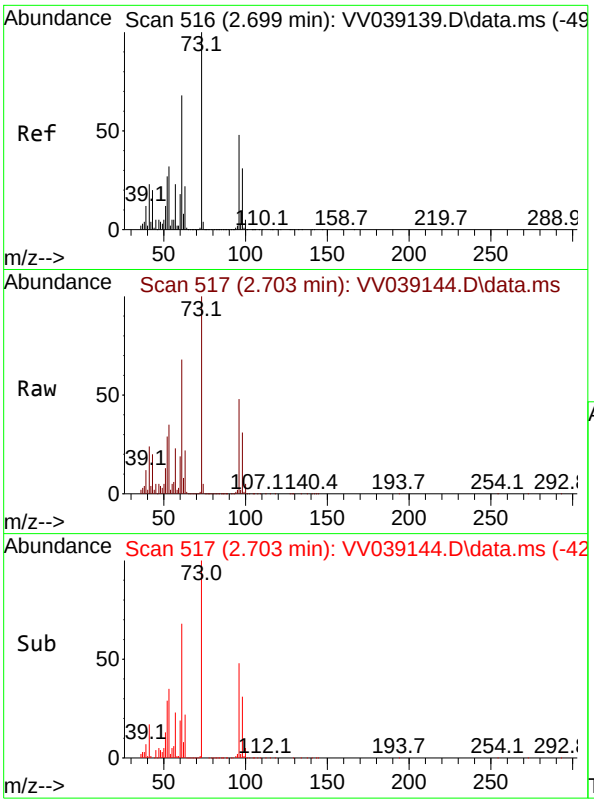


#20
Methylene Chloride
Concen: 51.536 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 84 Resp: 426790

Ion	Ratio	Lower	Upper
84	100		
49	127.1	102.8	154.2
51	38.7	31.9	47.9
86	62.9	51.2	76.8

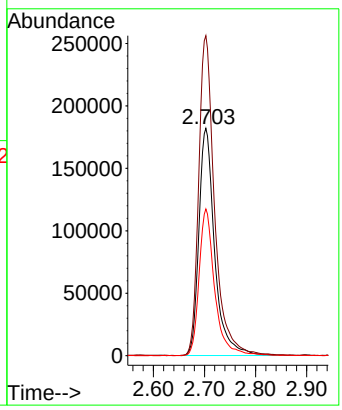




#21
trans-1,2-Dichloroethene
Concen: 45.915 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 39110

Ion	Ratio	Lower	Upper
96	100		
61	140.9	112.8	169.2
98	64.6	51.1	76.7



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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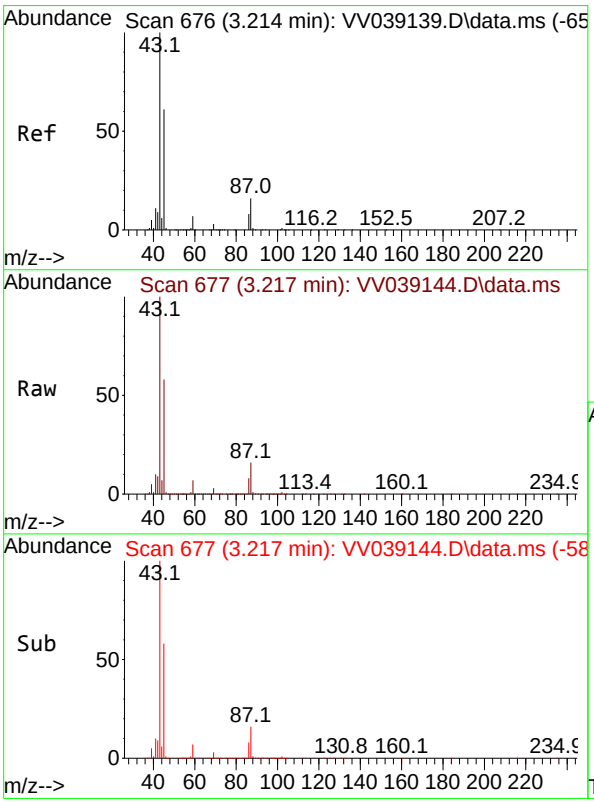
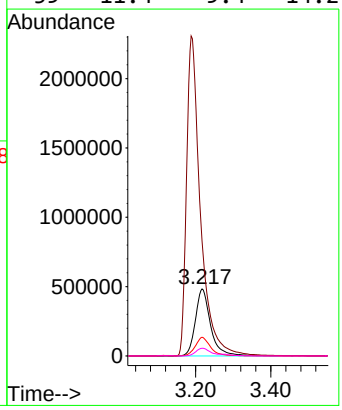
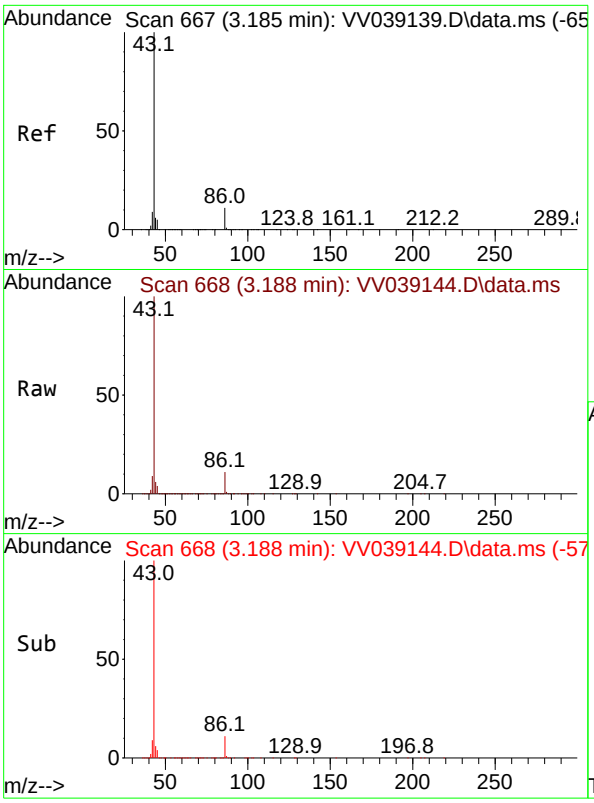


#22
Diisopropyl ether
Concen: 49.556 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 45 Resp: 1355158

Ion	Ratio	Lower	Upper
45	100		
43	170.9	130.9	196.3
87	27.9	21.1	31.7
59	11.4	9.4	14.2

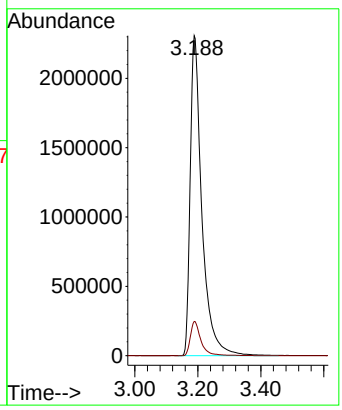




#23
Vinyl Acetate
Concen: 248.597 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 594689

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.4	12.6



Instrument :
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ClientSampleId :
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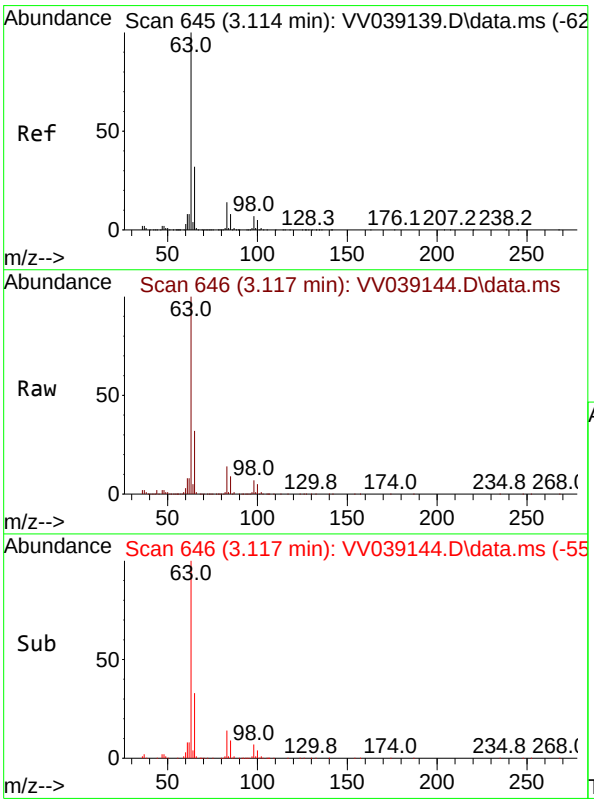
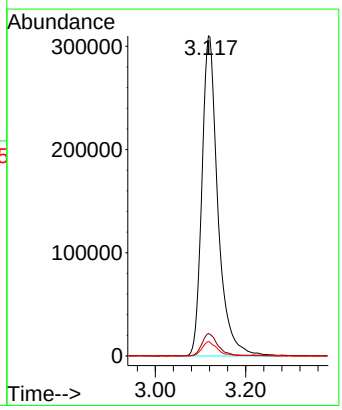
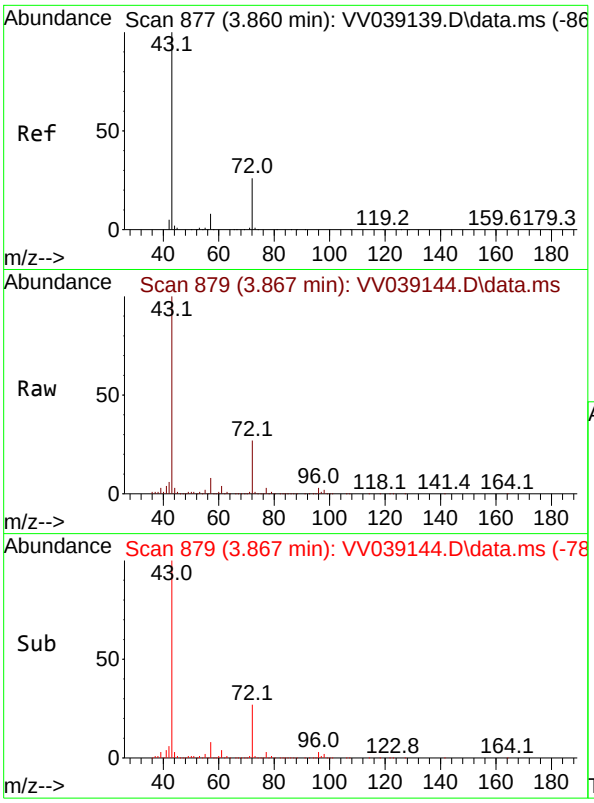


#24
1,1-Dichloroethane
Concen: 45.536 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 761495

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.5	2.2	6.6

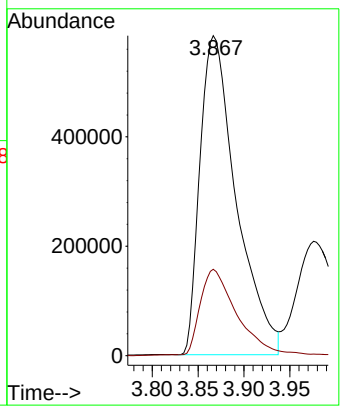




#25
2-Butanone
Concen: 262.050 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 161171

Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.0	31.6



Instrument :
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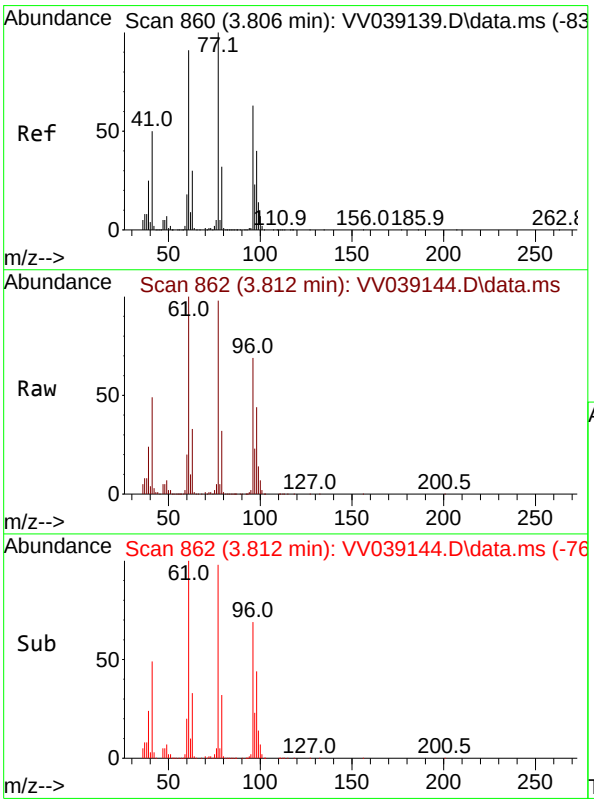
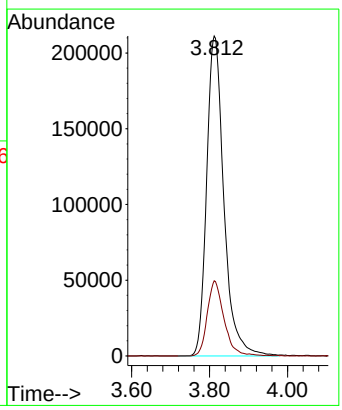
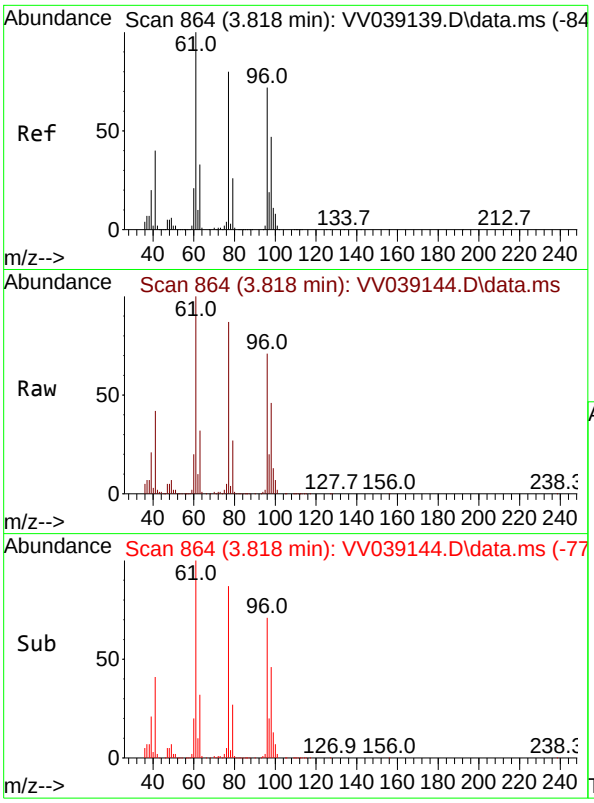


#26
2,2-Dichloropropane
Concen: 43.721 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 77 Resp: 648277

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.6	34.7

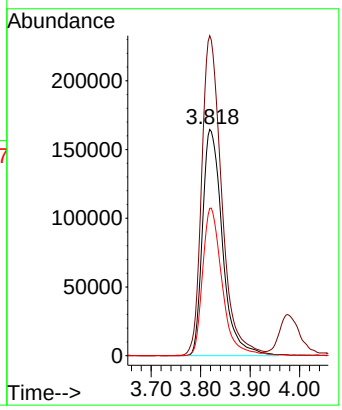




#27
cis-1,2-Dichloroethene
Concen: 48.960 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 45995

Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	286.4
98	63.9	0.0	126.6



Instrument :
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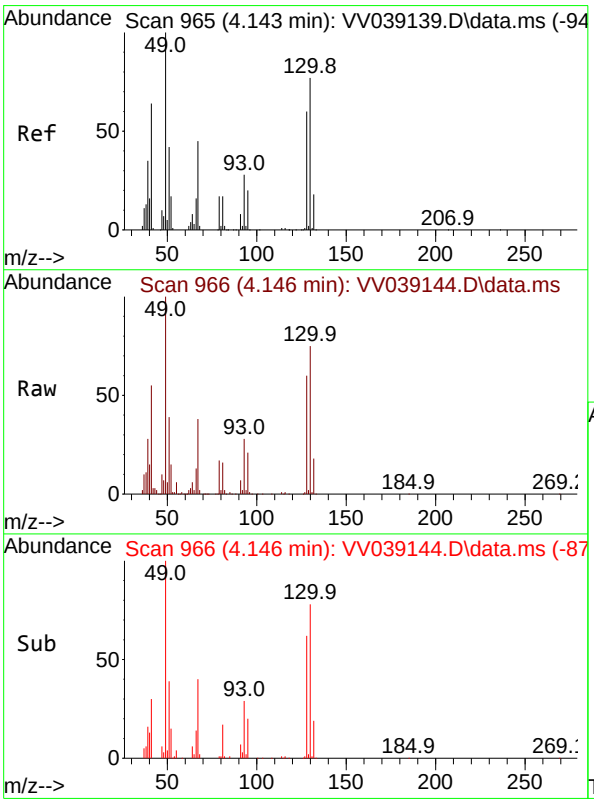
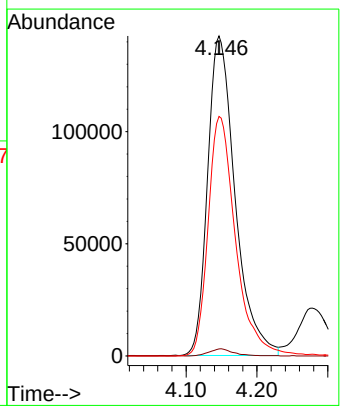
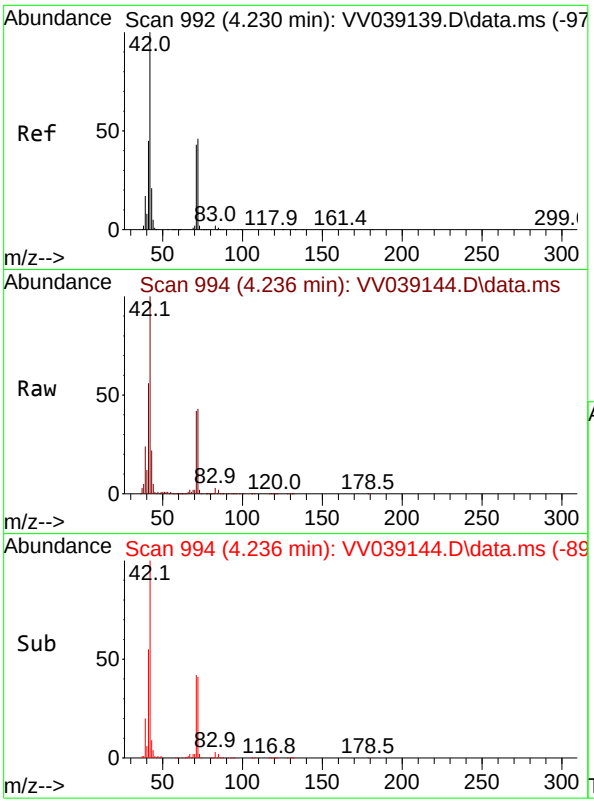


#28
Bromochloromethane
Concen: 52.149 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 49 Resp: 384995

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	74.8	60.2	90.2

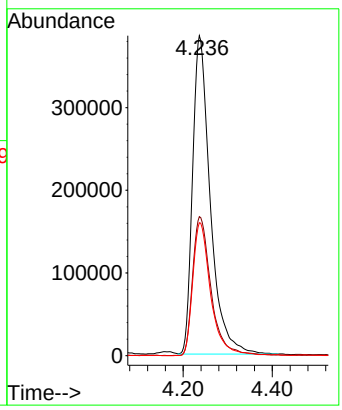




#29
Tetrahydrofuran
Concen: 276.528 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 42 Resp: 106454

Ion	Ratio	Lower	Upper
42	100		
72	45.2	36.3	54.5
71	42.4	34.3	51.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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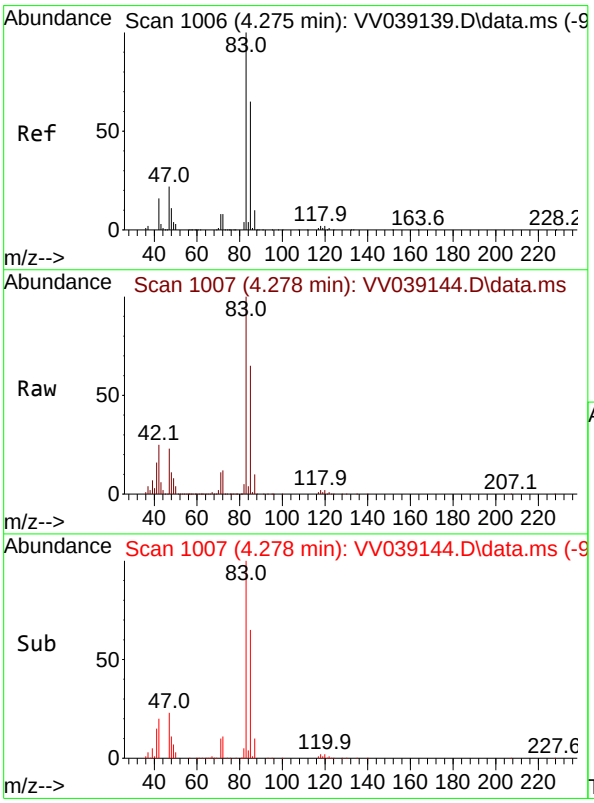
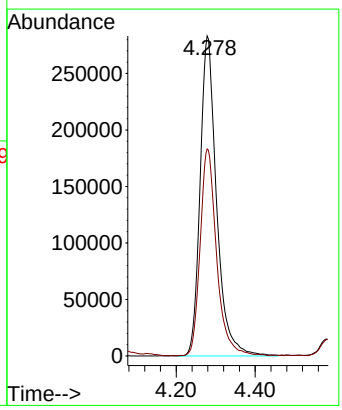
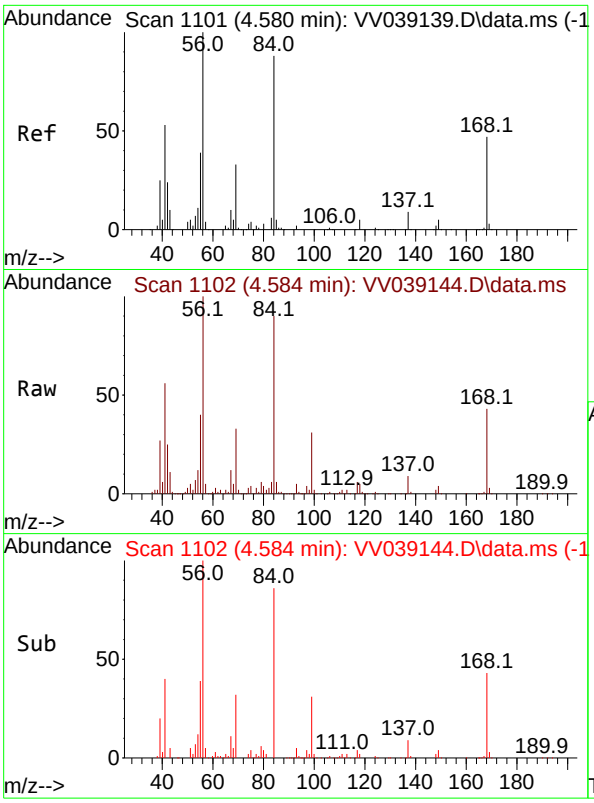


#30
Chloroform
Concen: 46.980 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 820367

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.1	78.1

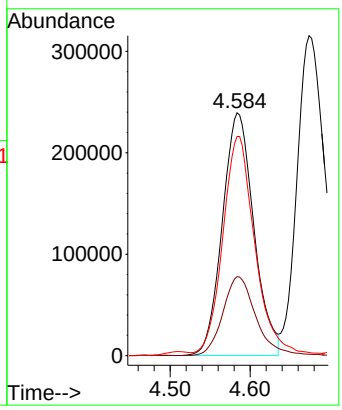




#31
Cyclohexane
Concen: 47.799 ug/l
RT: 4.584 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 56 Resp: 65480

Ion	Ratio	Lower	Upper
56	100		
69	32.5	26.2	39.2
84	88.6	70.3	105.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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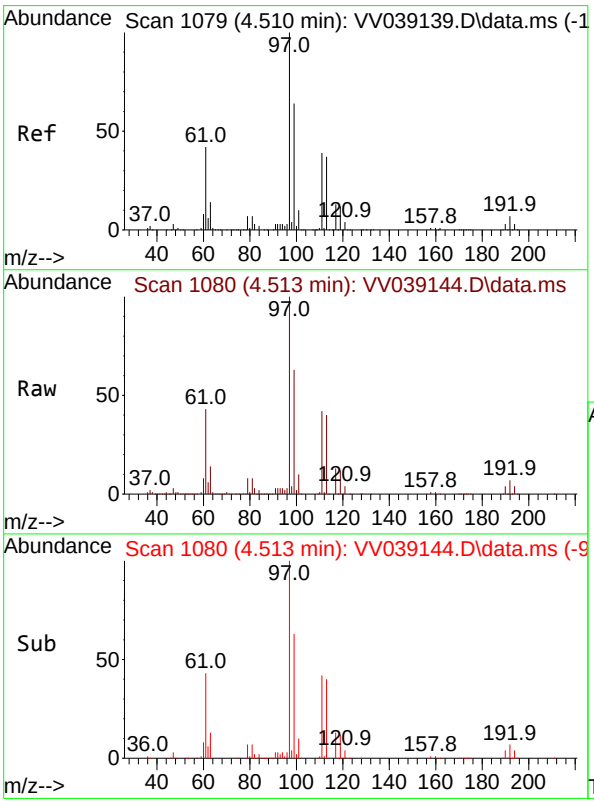
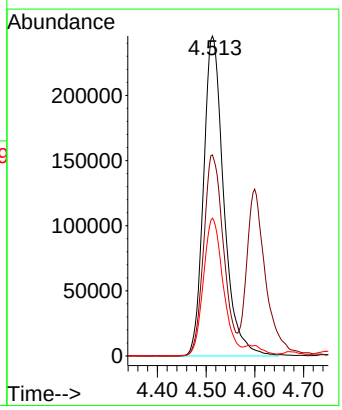
Supervised By :Semsettin Yesilyurt 09/26/2025

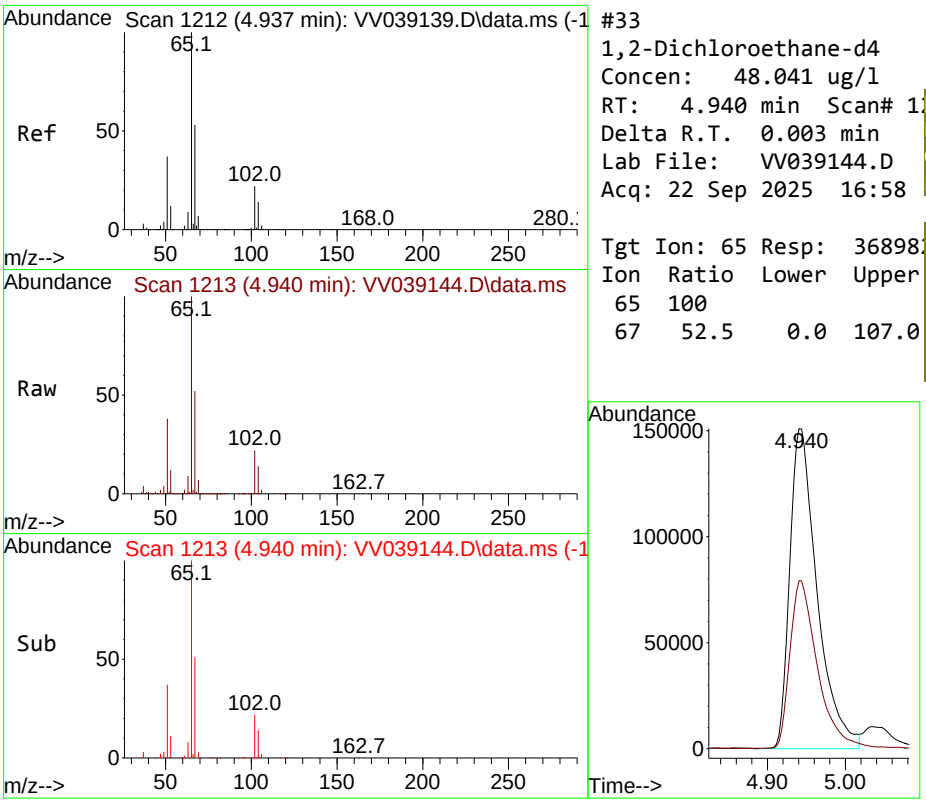


#32
1,1,1-Trichloroethane
Concen: 46.922 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 97 Resp: 709351

Ion	Ratio	Lower	Upper
97	100		
99	61.4	49.6	74.4
61	42.0	34.5	51.7





#33
1,2-Dichloroethane-d4
Concen: 48.041 ug/l
RT: 4.940 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 65 Resp: 36898

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	107.0

Instrument :
MSVOA_V
ClientSampleId :
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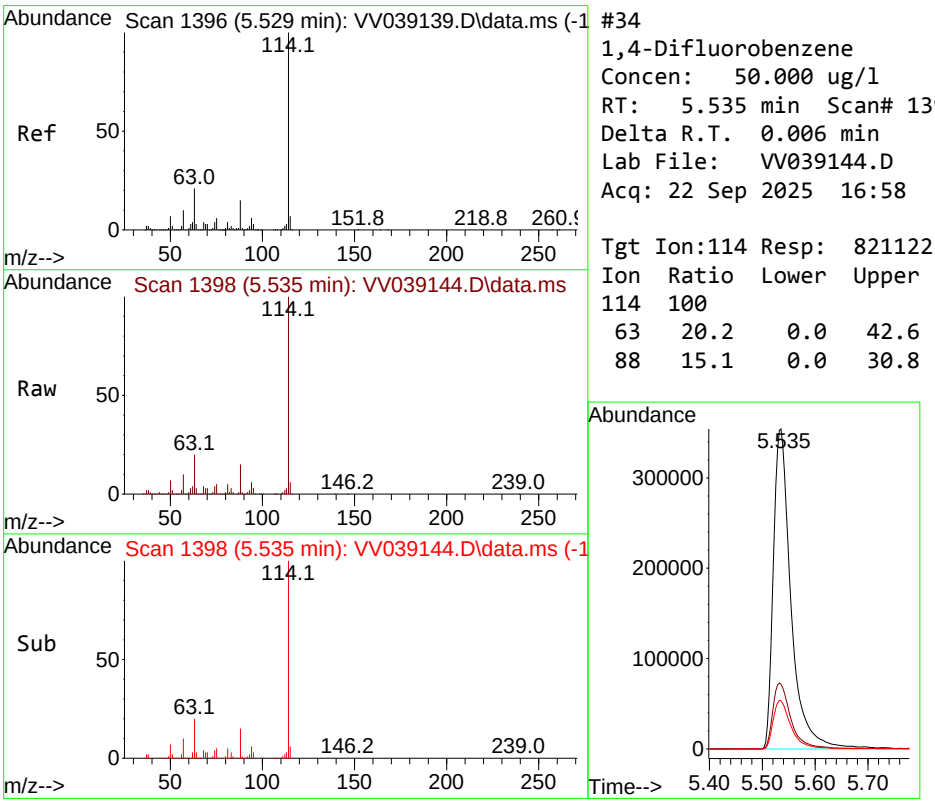
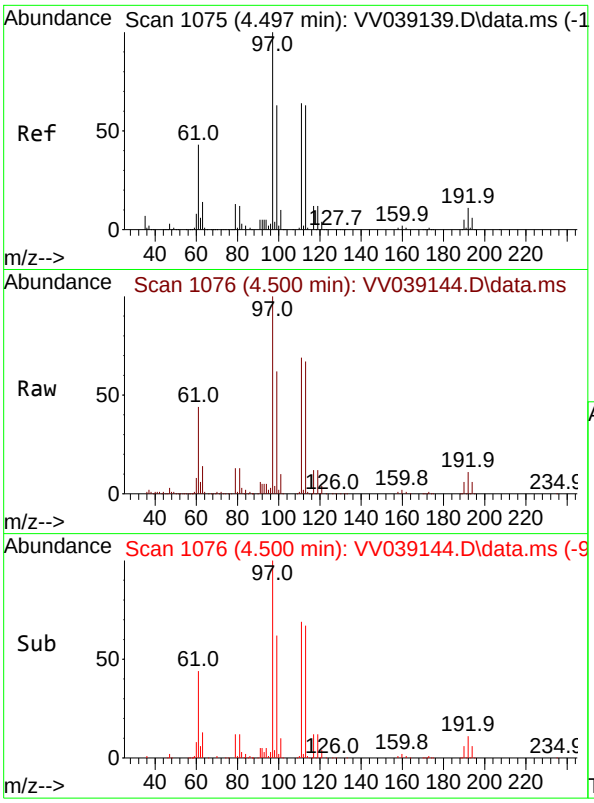


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:114 Resp: 821122

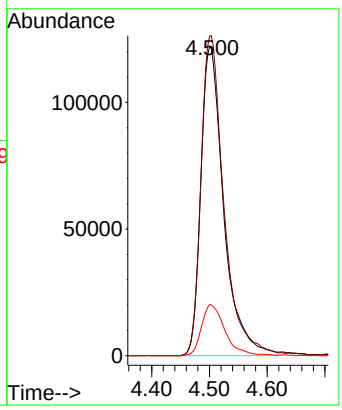
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.1	0.0	30.8



#35
Dibromofluoromethane
Concen: 50.832 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:113 Resp: 33554

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.4	123.6
192	16.8	13.8	20.8



Instrument :
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ClientSampleId :
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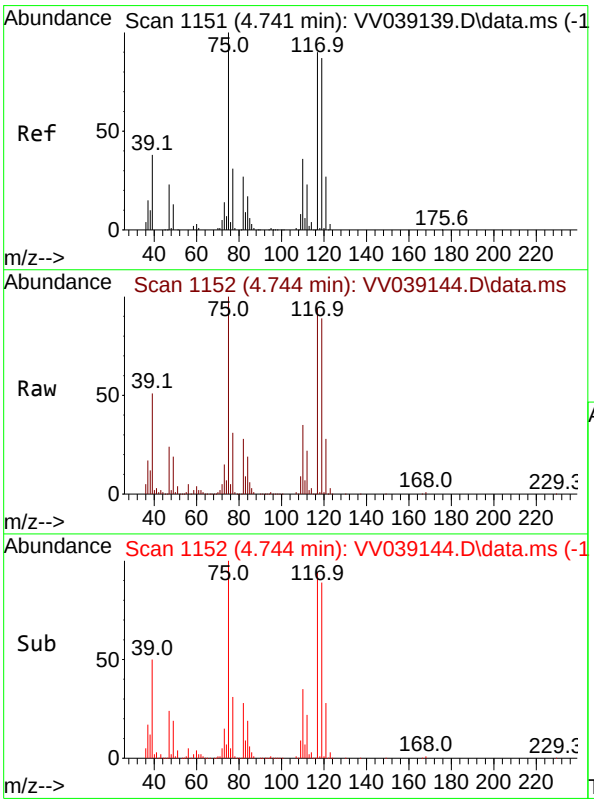
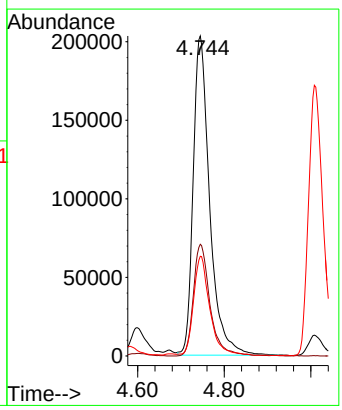
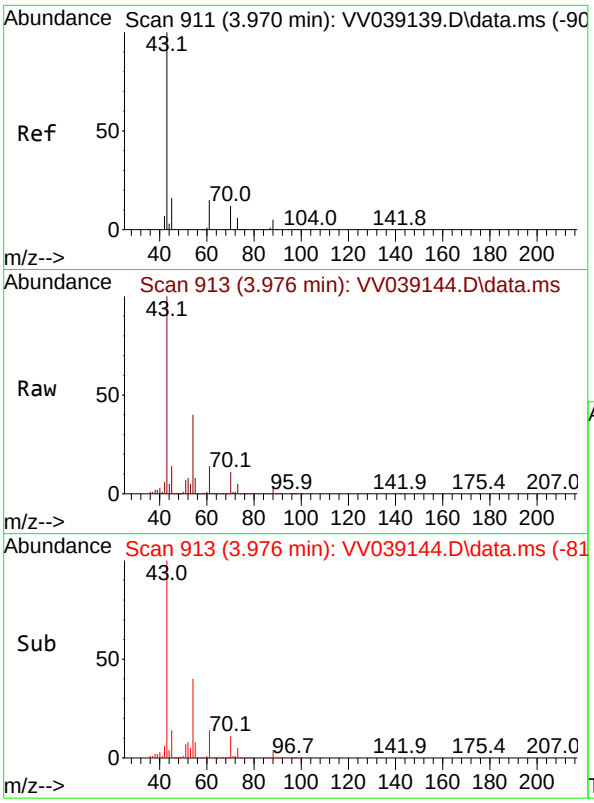


#36
1,1-Dichloropropene
Concen: 53.809 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 537027

Ion	Ratio	Lower	Upper
75	100		
110	35.3	18.1	54.1
77	30.4	24.8	37.2





#37
Ethyl Acetate
Concen: 52.050 ug/l
RT: 3.976 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 63034

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.3	15.5
70	10.3	8.0	12.0

Instrument :
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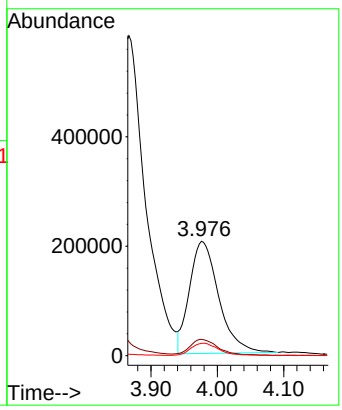
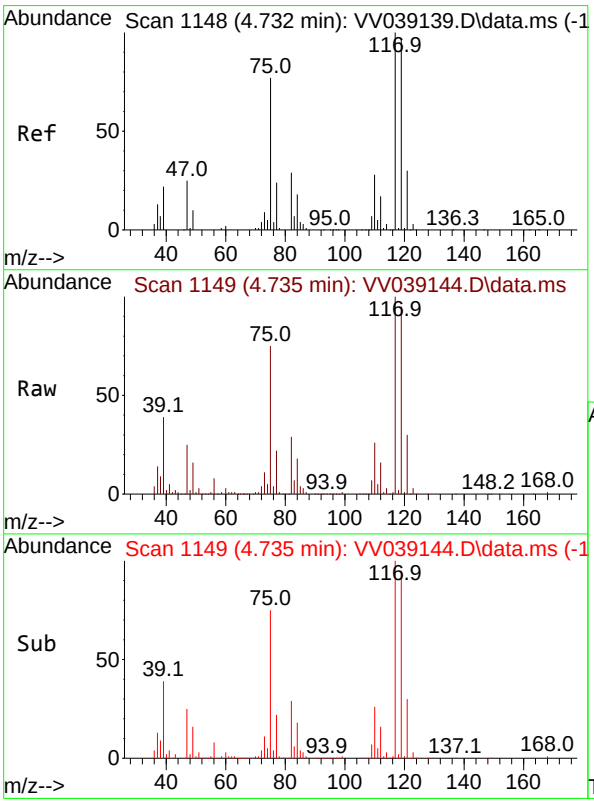
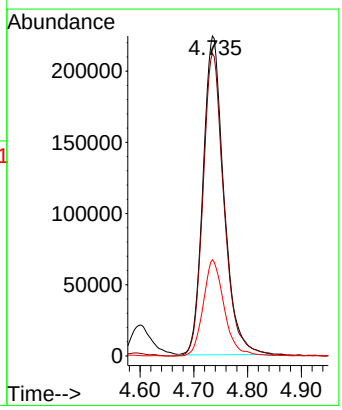


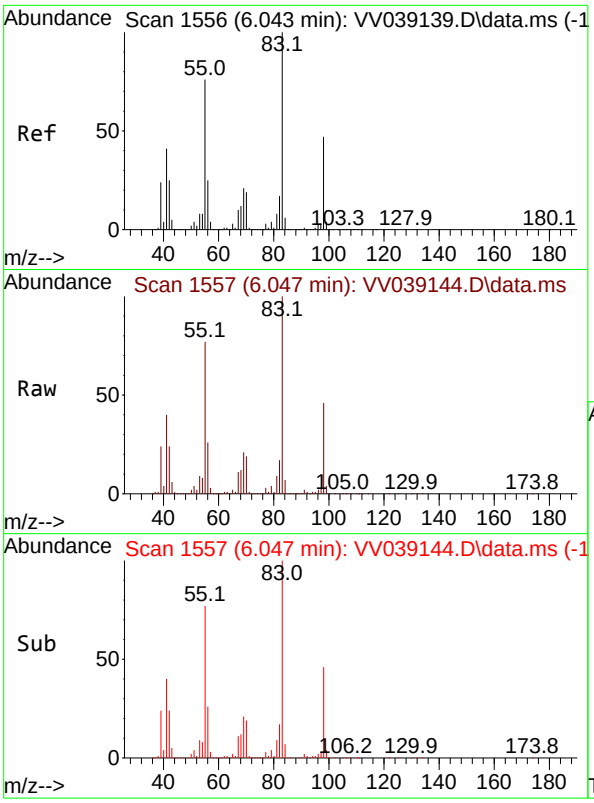


#38
Carbon Tetrachloride
Concen: 49.452 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:117 Resp: 603187

Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.2	115.8
121	30.1	24.2	36.2

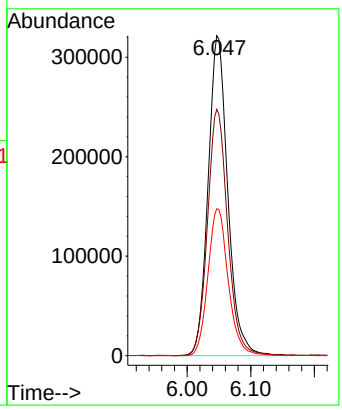




#39
Methylcyclohexane
Concen: 57.426 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 69213

Ion	Ratio	Lower	Upper
83	100		
55	76.9	60.5	90.7
98	45.9	37.8	56.6



Instrument :
MSVOA_V
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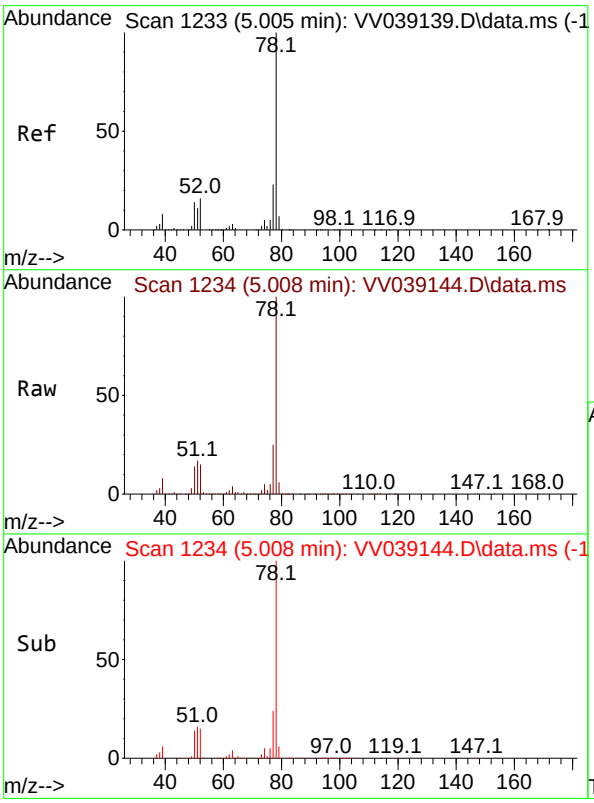
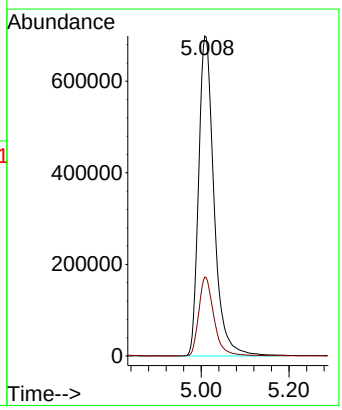
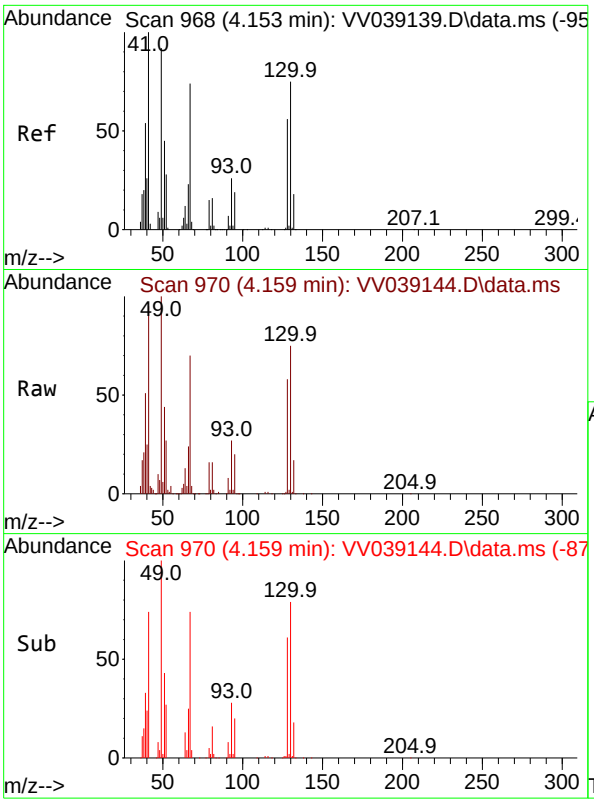


#40
Benzene
Concen: 52.293 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 78 Resp: 1699505

Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.7	28.1

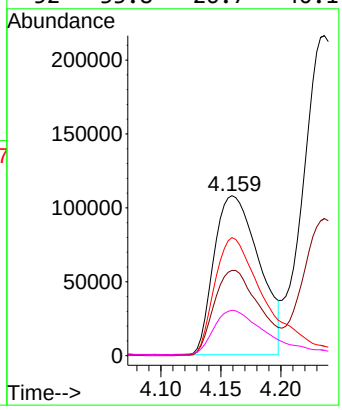




#41
Methacrylonitrile
Concen: 51.602 ug/l
RT: 4.159 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 28289

Ion	Ratio	Lower	Upper
41	100		
39	53.6	42.2	63.2
67	86.4	67.9	101.9
52	33.8	26.7	40.1



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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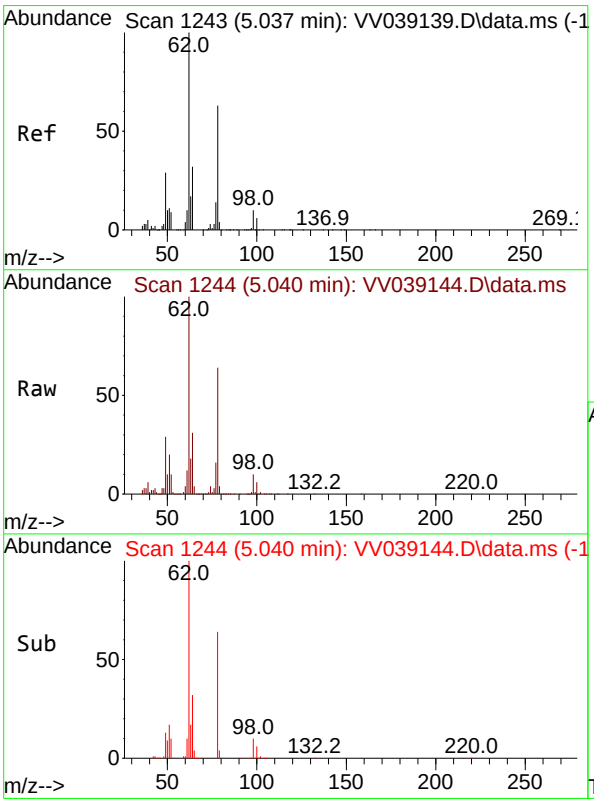
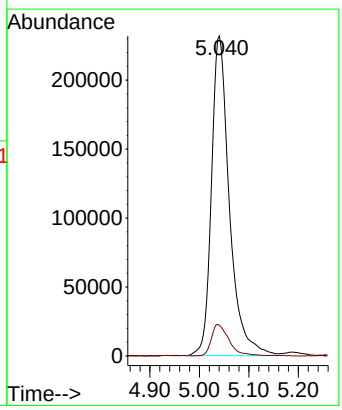
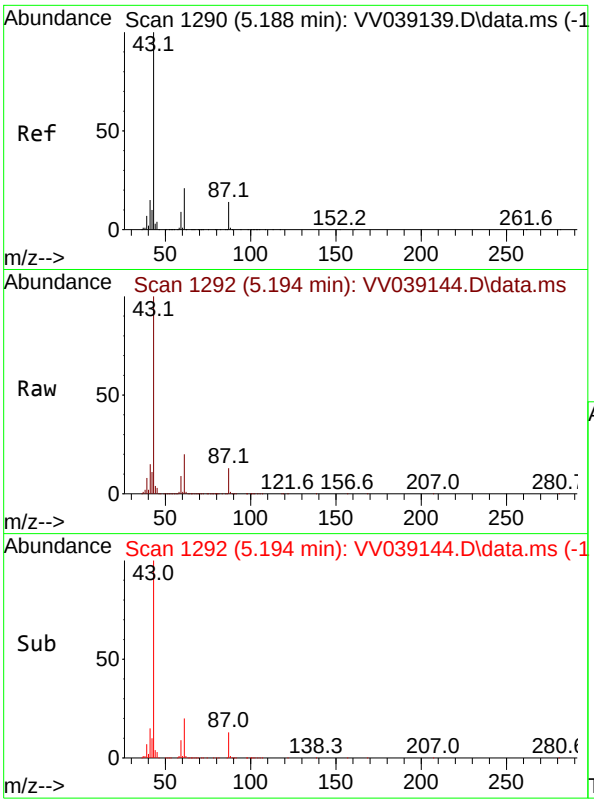


#42
1,2-Dichloroethane
Concen: 51.245 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 62 Resp: 583550

Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.2

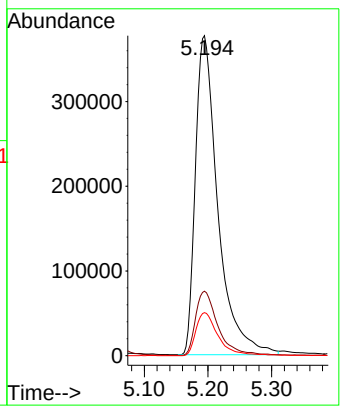




#43
Isopropyl Acetate
Concen: 55.998 ug/l
RT: 5.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 92465

Ion	Ratio	Lower	Upper
43	100		
61	20.1	15.9	23.9
87	13.2	11.0	16.6



Instrument :
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ClientSampleId :
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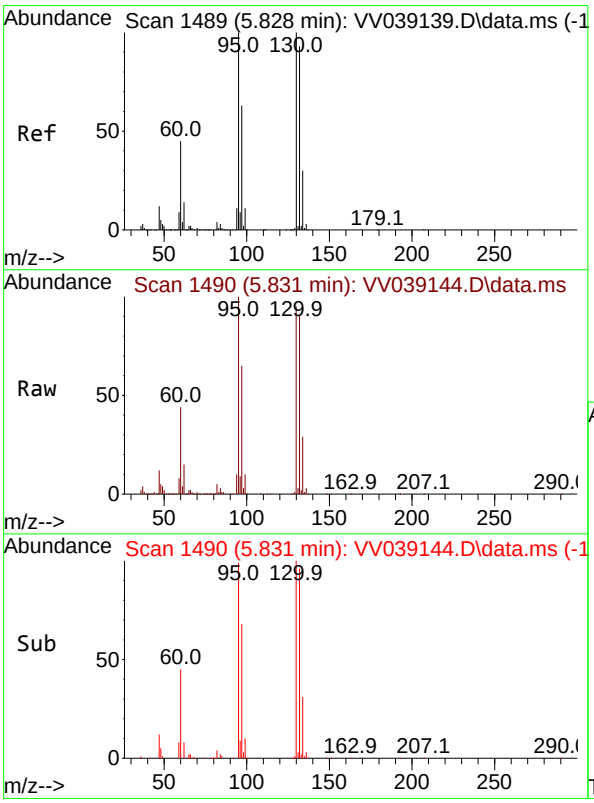
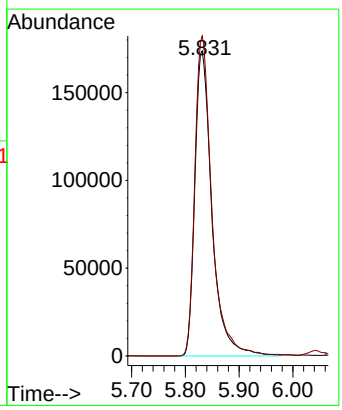
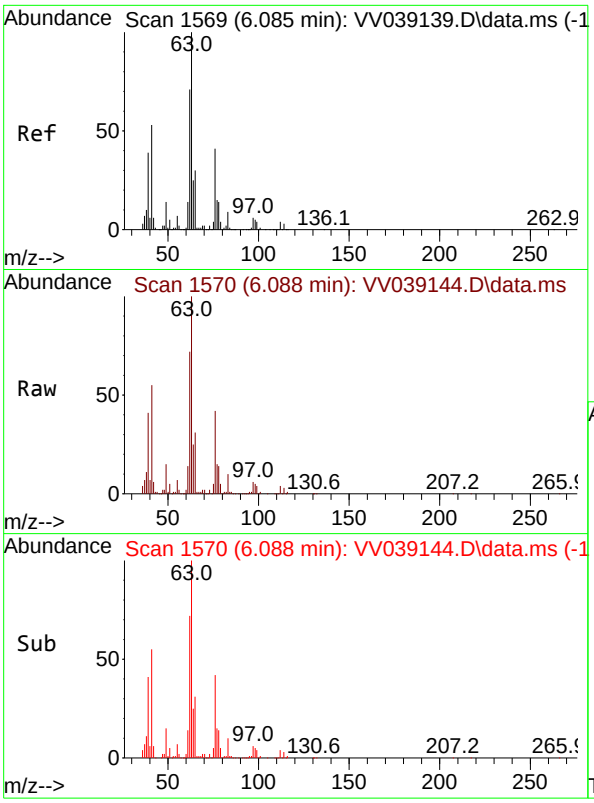


#44
Trichloroethene
Concen: 51.216 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:130 Resp: 384092

Ion	Ratio	Lower	Upper
130	100		
95	104.9	0.0	199.2

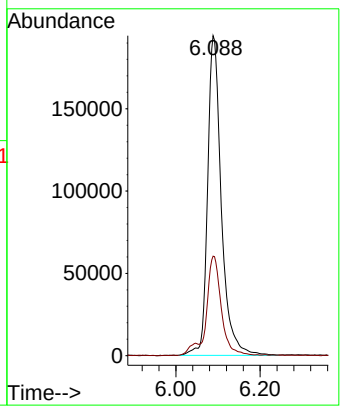




#45
1,2-Dichloropropane
Concen: 54.495 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 44021

Ion	Ratio	Lower	Upper
63	100		
65	31.0	23.7	35.5



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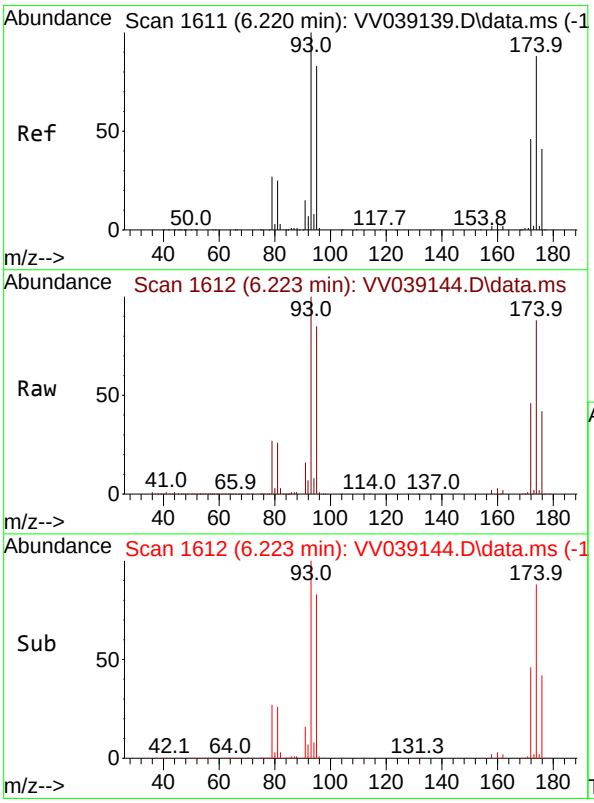
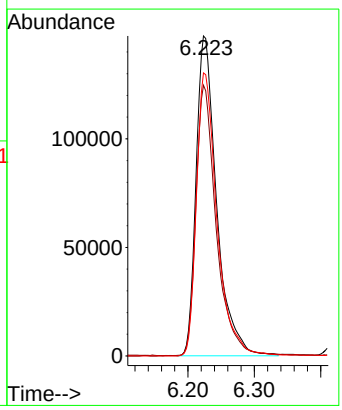
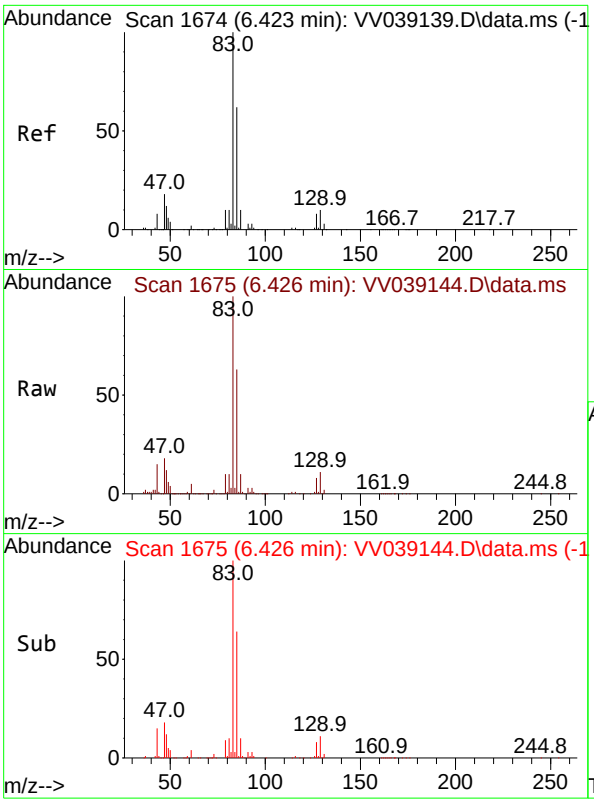


#46
Dibromomethane
Concen: 51.116 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 93 Resp: 316032

Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.5	98.3
174	89.0	69.0	103.4

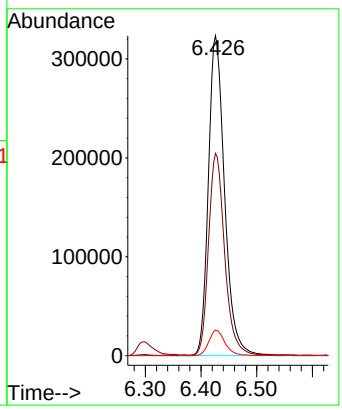




#47
Bromodichloromethane
Concen: 51.232 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 65483

Ion	Ratio	Lower	Upper
83	100		
85	63.0	49.7	74.5
127	8.0	6.6	9.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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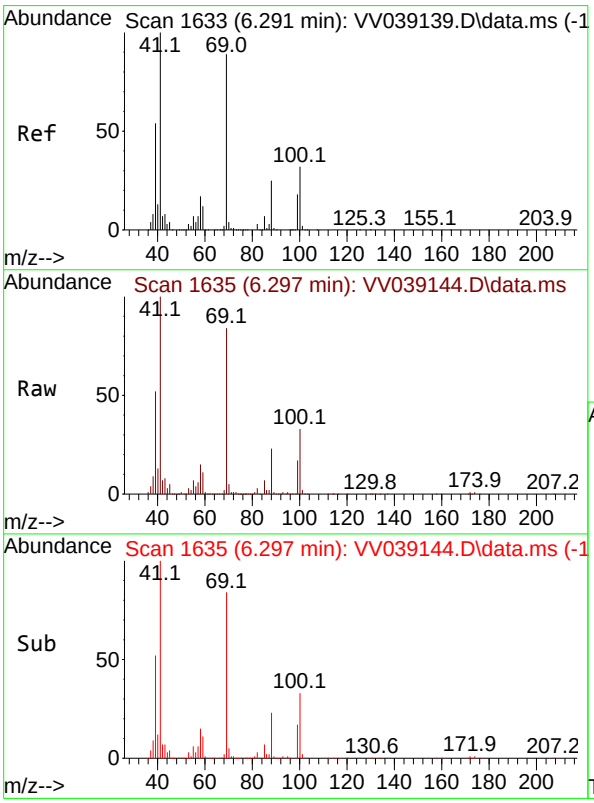
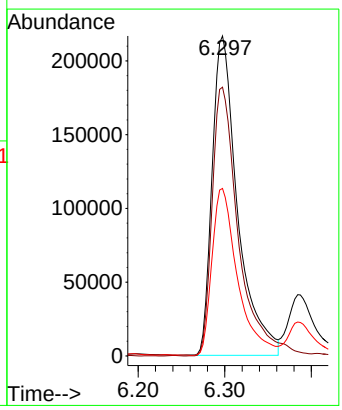
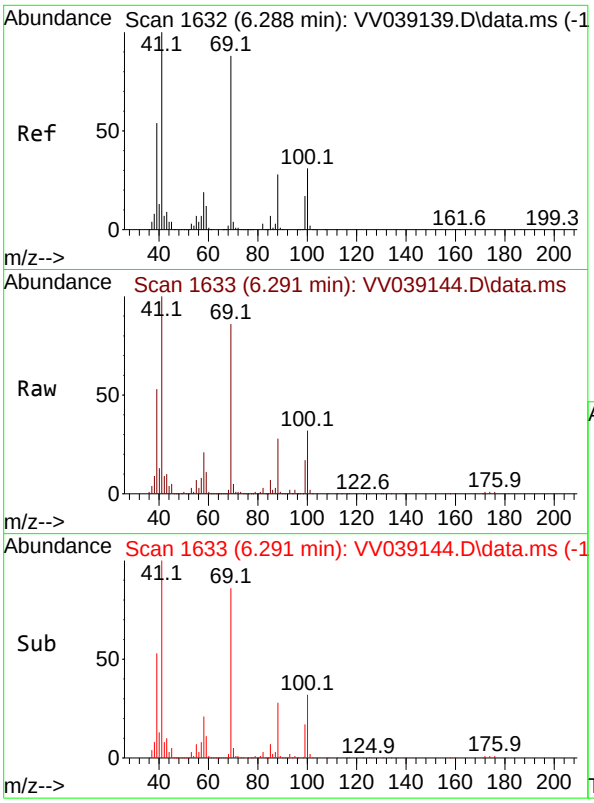


#48
Methyl methacrylate
Concen: 59.104 ug/l
RT: 6.297 min Scan# 1635
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 442395

Ion	Ratio	Lower	Upper
41	100		
69	87.4	72.4	108.6
39	52.6	42.5	63.7

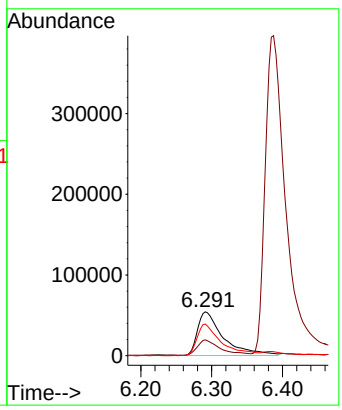




#49
1,4-Dioxane
Concen: 1133.346 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 88 Resp: 136899

Ion	Ratio	Lower	Upper
88	100		
43	31.1	25.1	37.7
58	67.8	53.6	80.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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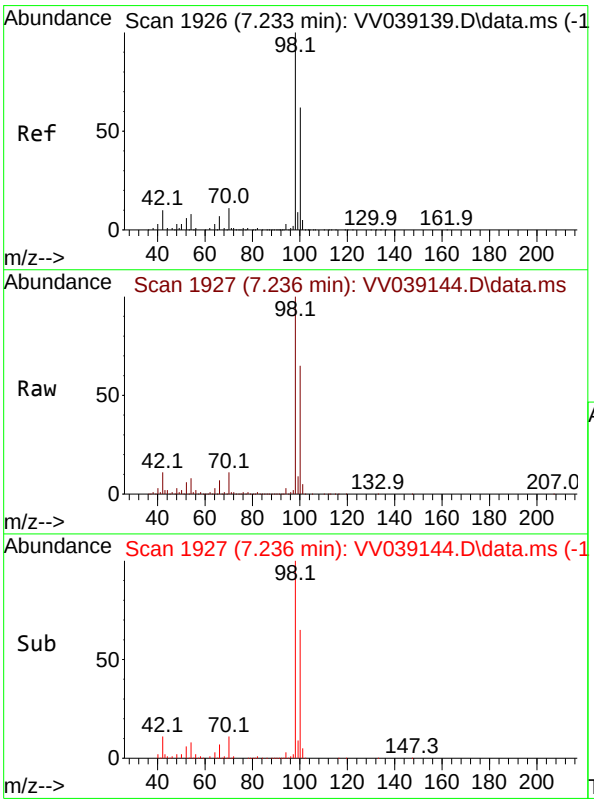
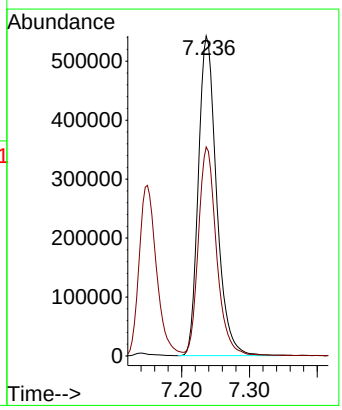
Supervised By :Semsettin Yesilyurt 09/26/2025

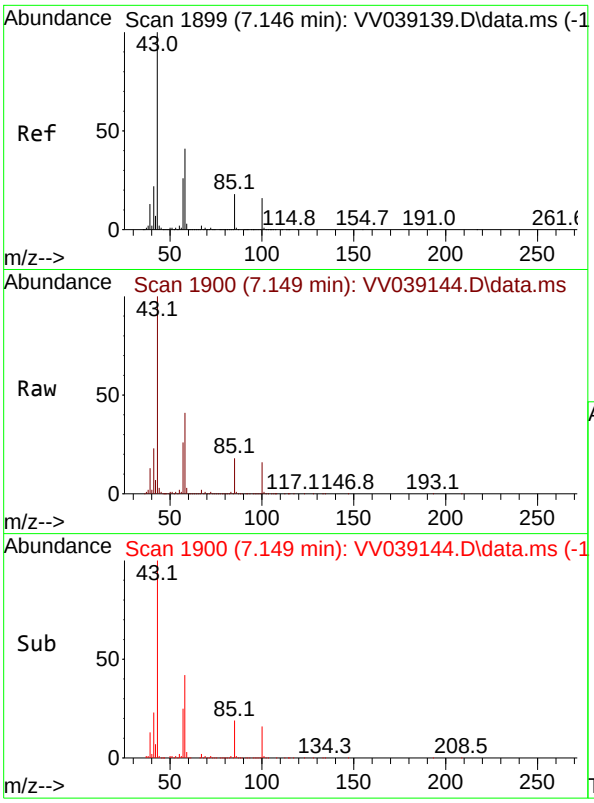


#50
Toluene-d8
Concen: 52.199 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 98 Resp: 1012009

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2

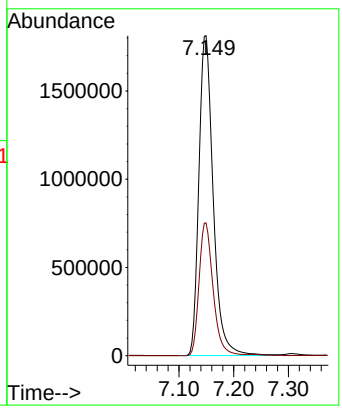




#51
4-Methyl-2-Pentanone
Concen: 303.119 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 329279

Ion	Ratio	Lower	Upper
43	100		
58	40.6	32.3	48.5



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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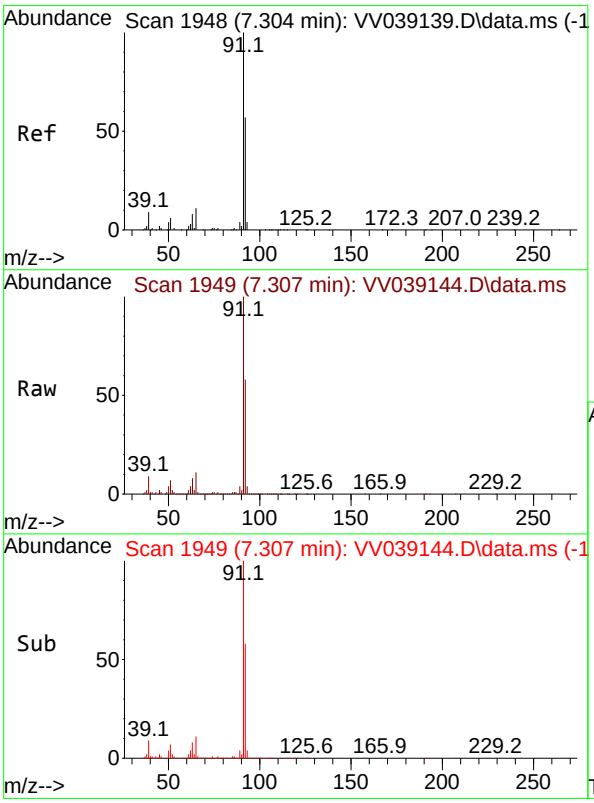
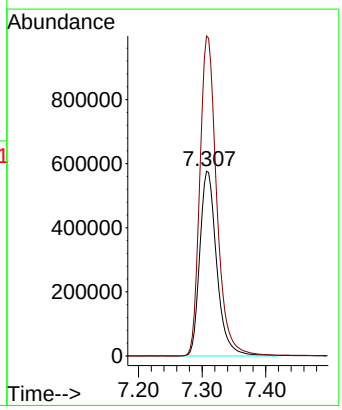
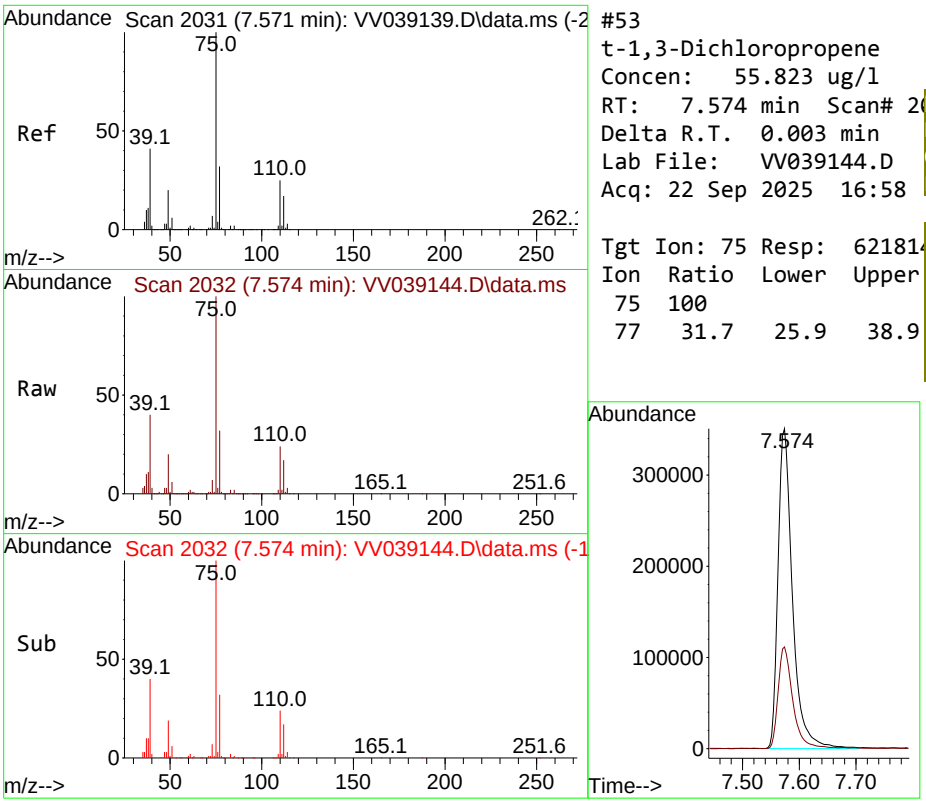


#52
Toluene
Concen: 56.517 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 92 Resp: 1064972

Ion	Ratio	Lower	Upper
92	100		
91	173.0	139.2	208.8





#53
t-1,3-Dichloropropene
Concen: 55.823 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 62181

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.9	38.9

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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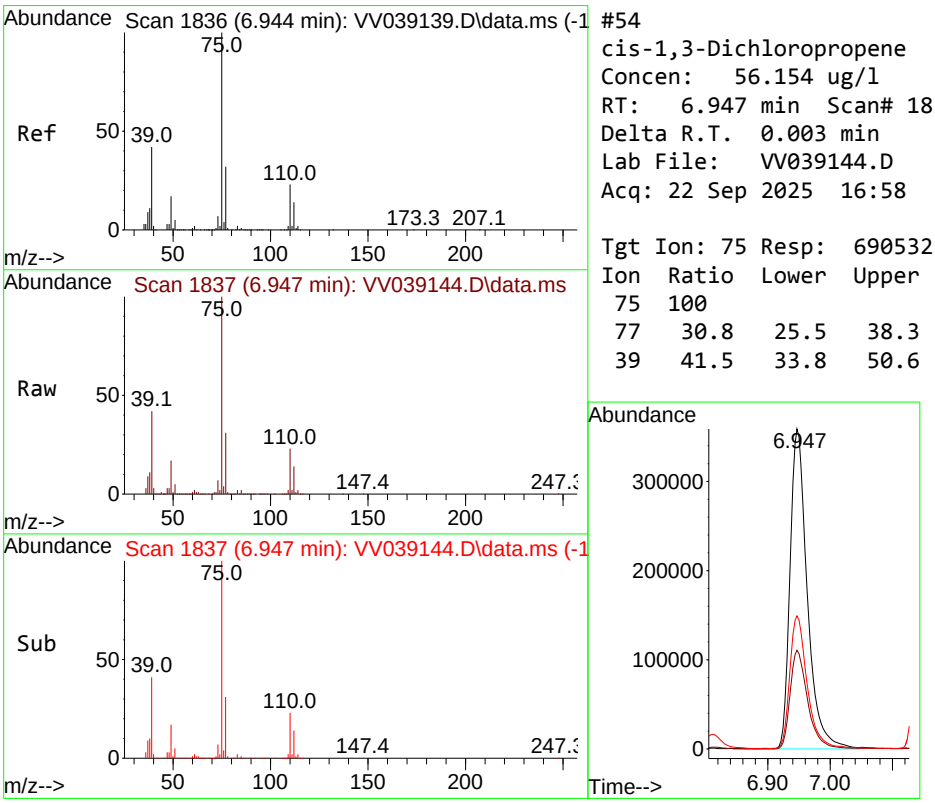
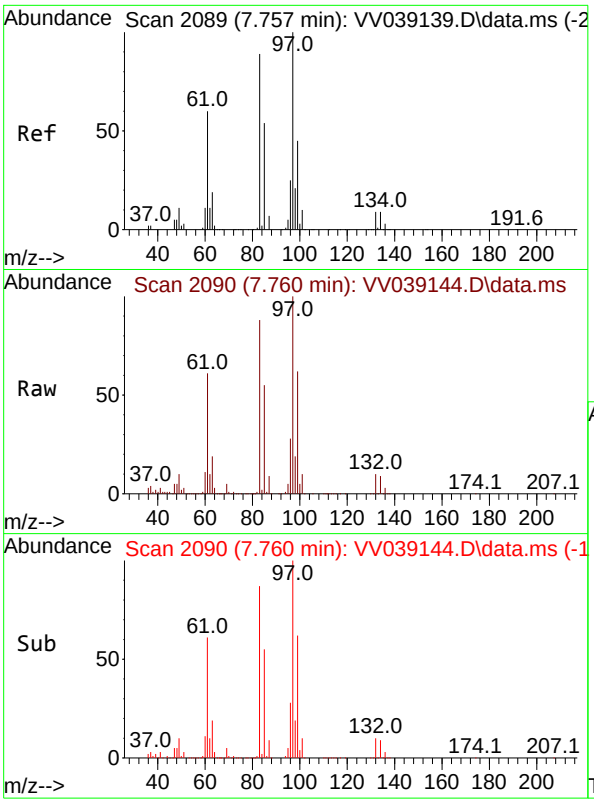


#54
cis-1,3-Dichloropropene
Concen: 56.154 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 690532

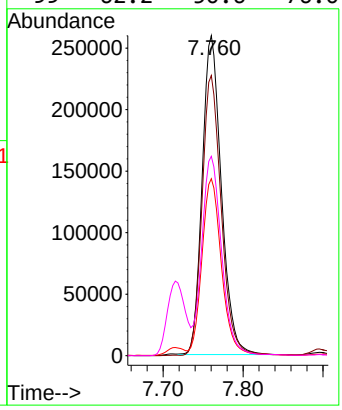
Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.5	38.3
39	41.5	33.8	50.6



#55
1,1,2-Trichloroethane
Concen: 51.231 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 97 Resp: 43285

Ion	Ratio	Lower	Upper
97	100		
83	87.7	71.1	106.7
85	55.2	44.6	67.0
99	62.2	50.6	76.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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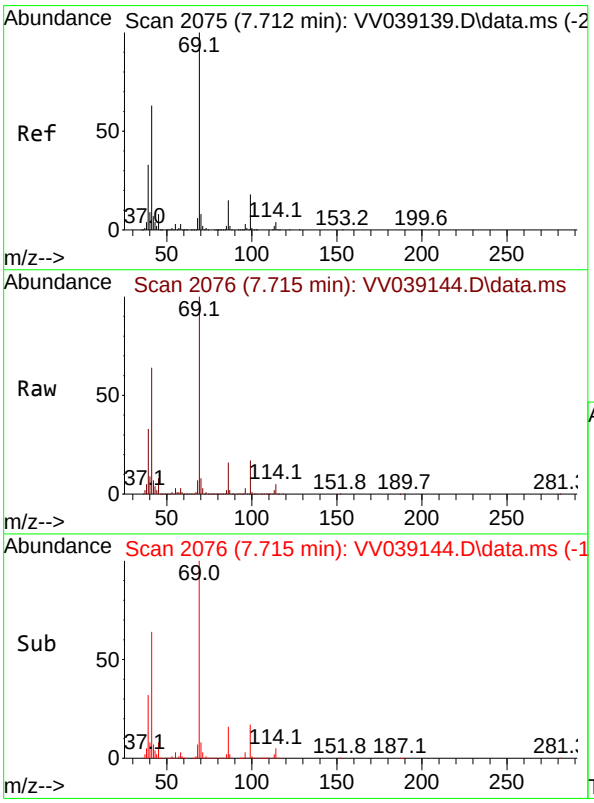
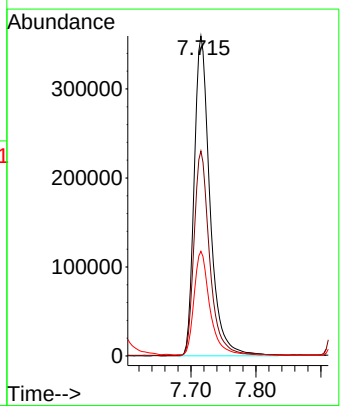
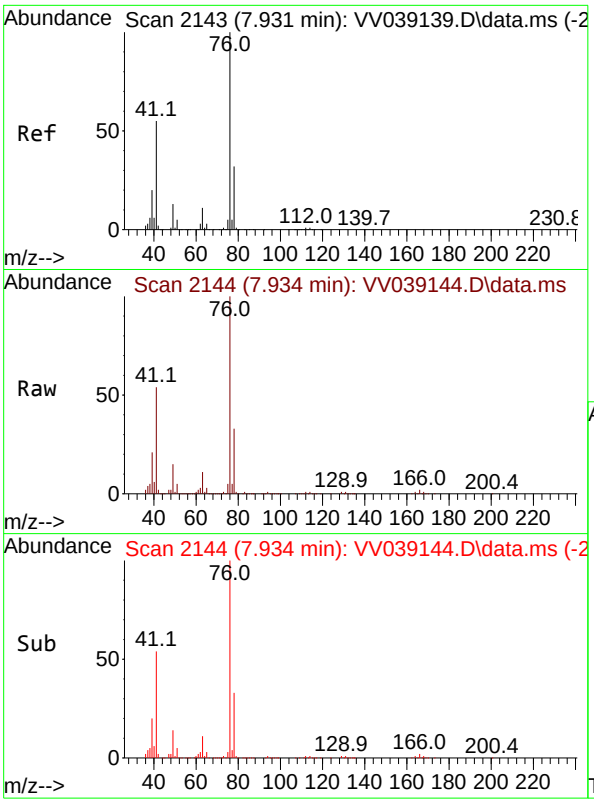


#56
Ethyl methacrylate
Concen: 60.810 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 69 Resp: 610159

Ion	Ratio	Lower	Upper
69	100		
41	62.8	50.7	76.1
39	32.0	26.0	39.0

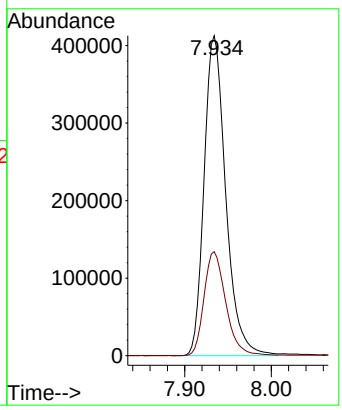




#57
1,3-Dichloropropane
Concen: 53.769 ug/l
RT: 7.934 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 76 Resp: 71695

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.1	39.1



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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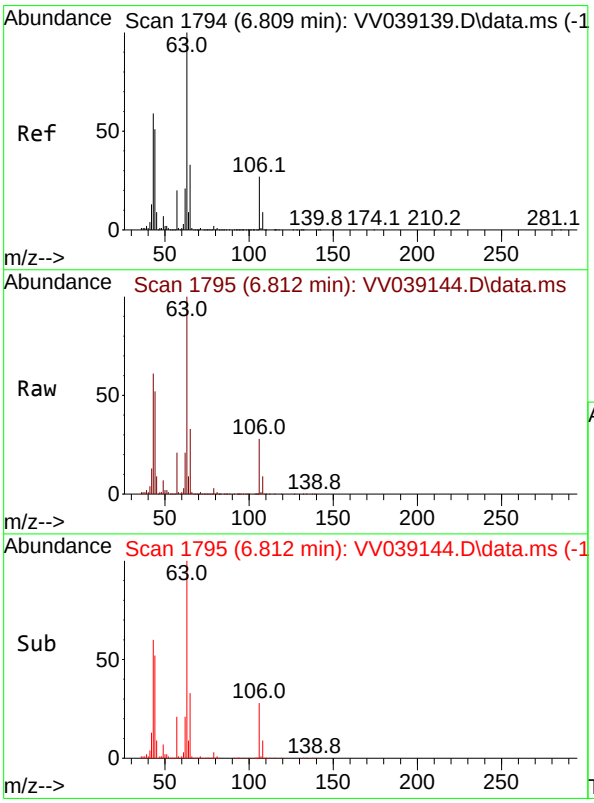
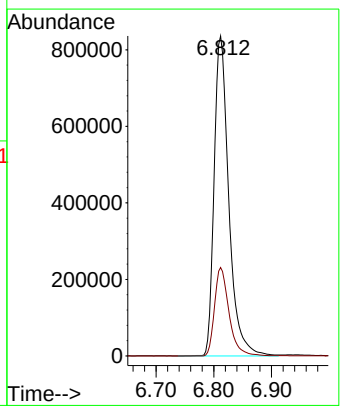
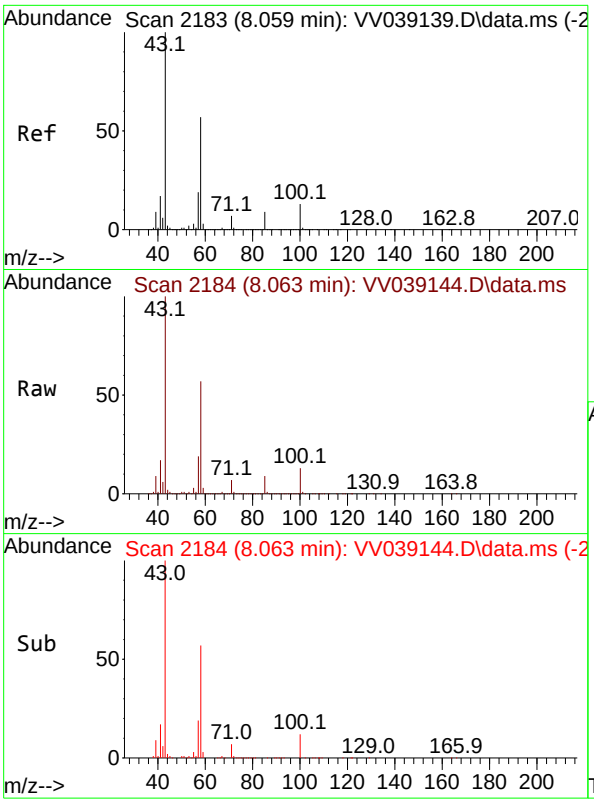


#58
2-Chloroethyl Vinyl ether
Concen: 259.936 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 1474938

Ion	Ratio	Lower	Upper
63	100		
106	27.3	22.1	33.1





#59
2-Hexanone
Concen: 280.545 ug/l
RT: 8.063 min Scan# 2
Delta R.T. 0.004 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 246249

Ion	Ratio	Lower	Upper
43	100		
58	56.4	28.3	85.0

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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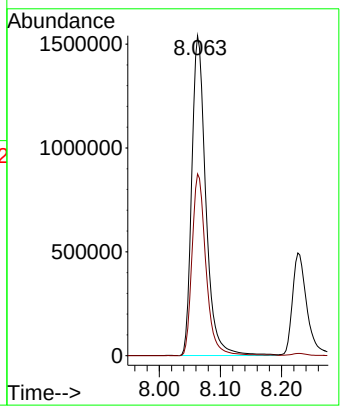
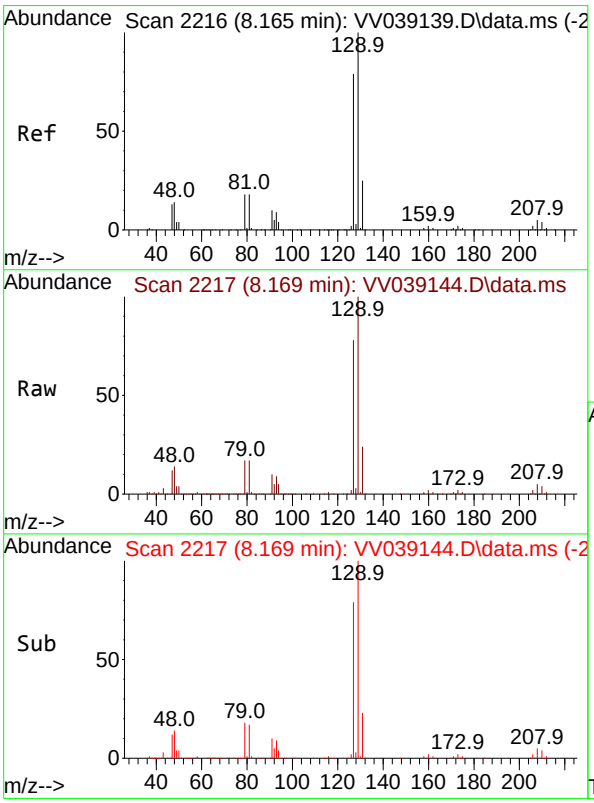
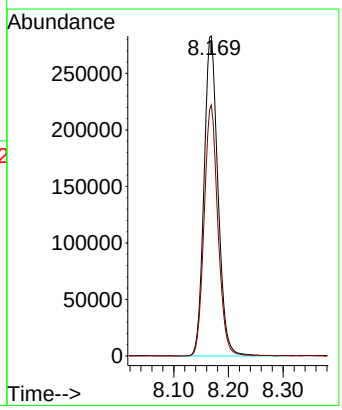


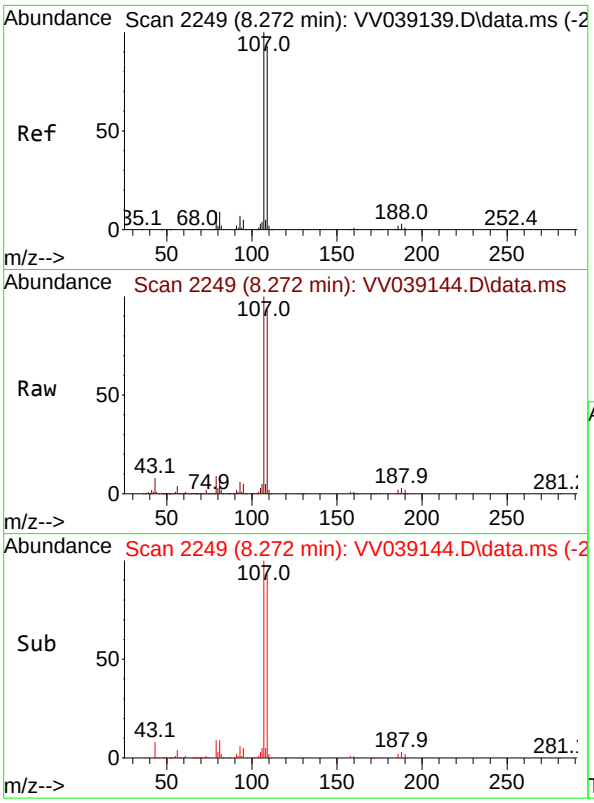


#60
Dibromochloromethane
Concen: 51.926 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:129 Resp: 499908

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.9

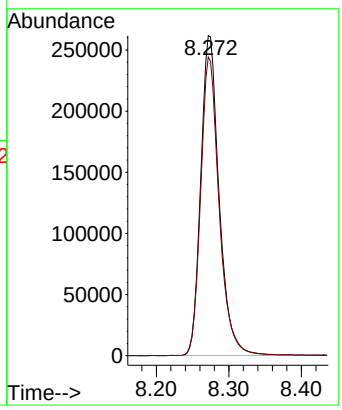




#61
1,2-Dibromoethane
Concen: 53.295 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:107 Resp: 46051

Ion	Ratio	Lower	Upper
107	100		
109	93.6	74.6	112.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
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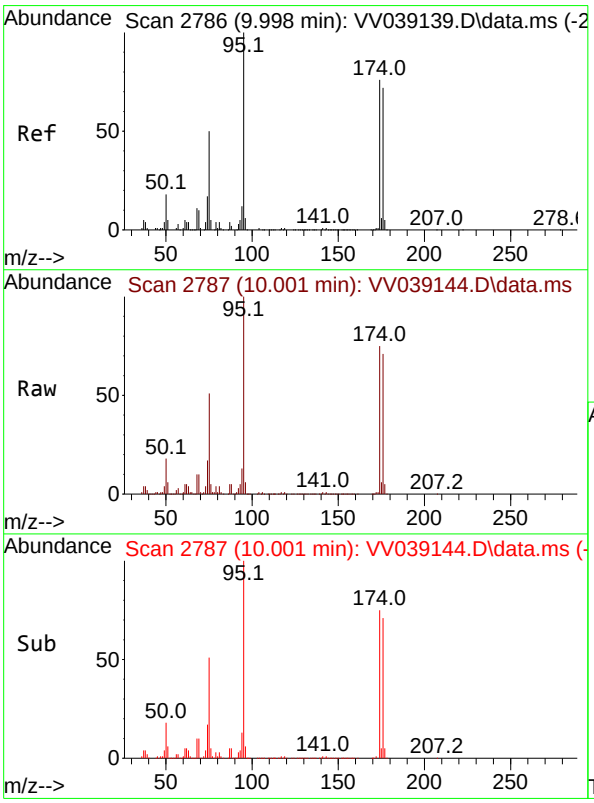
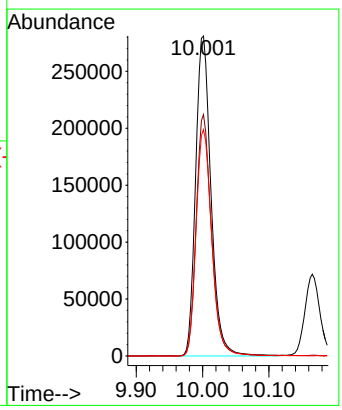
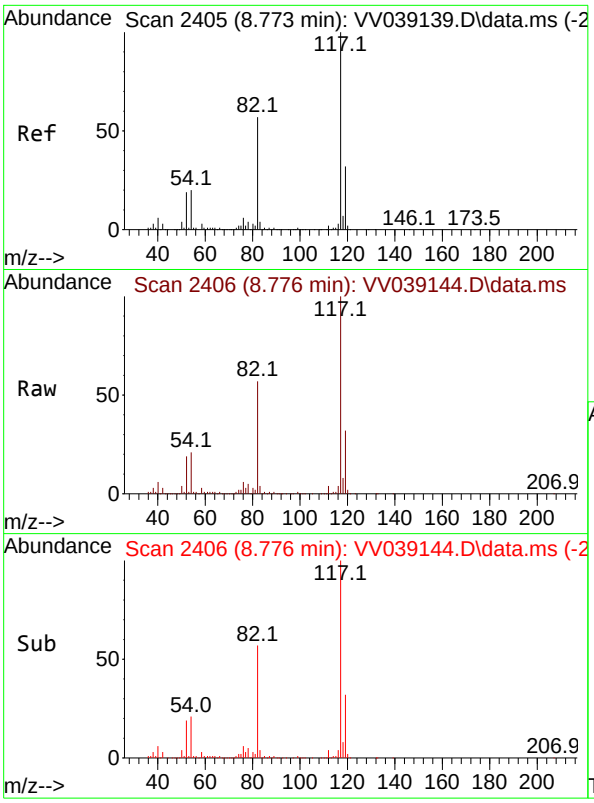


#62
4-Bromofluorobenzene
Concen: 56.823 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 95 Resp: 453523

Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	150.4
176	71.8	0.0	144.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:117 Resp: 81135

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.4	68.2
119	31.9	25.6	38.4

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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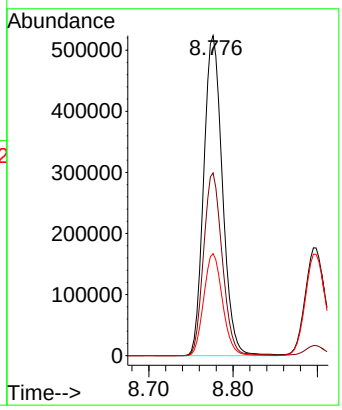
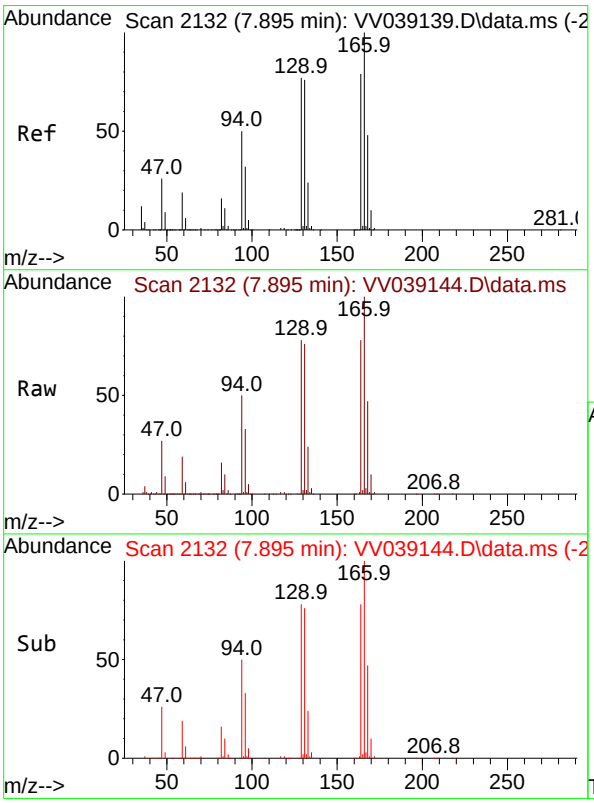
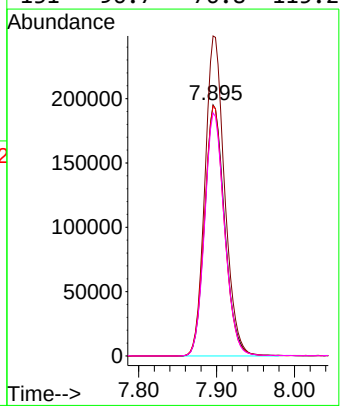


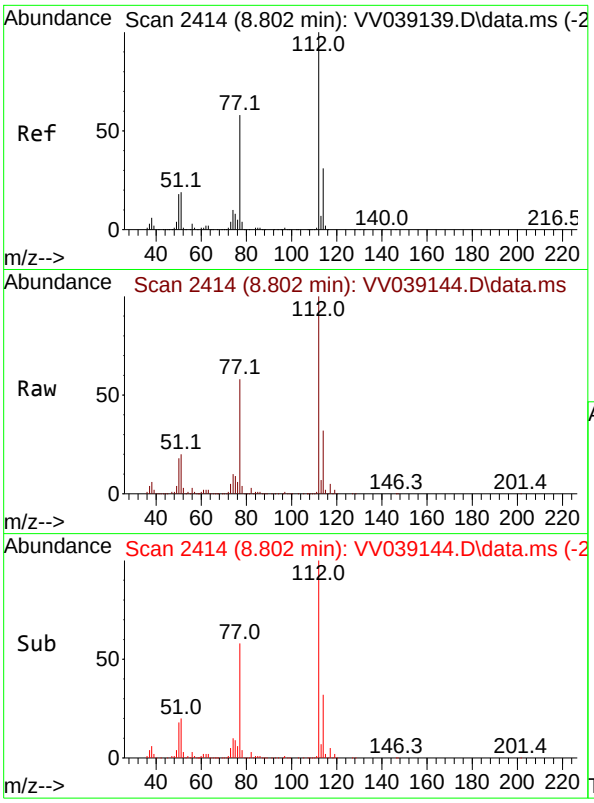


#64
Tetrachloroethene
Concen: 50.954 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:164 Resp: 346271

Ion	Ratio	Lower	Upper
164	100		
166	127.5	101.6	152.4
129	99.6	78.5	117.7
131	96.7	76.8	115.2





#65
Chlorobenzene
Concen: 51.041 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:112 Resp: 115350

Ion	Ratio	Lower	Upper
112	100		
114	31.5	24.6	37.0

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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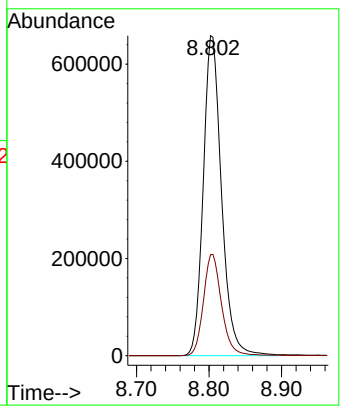
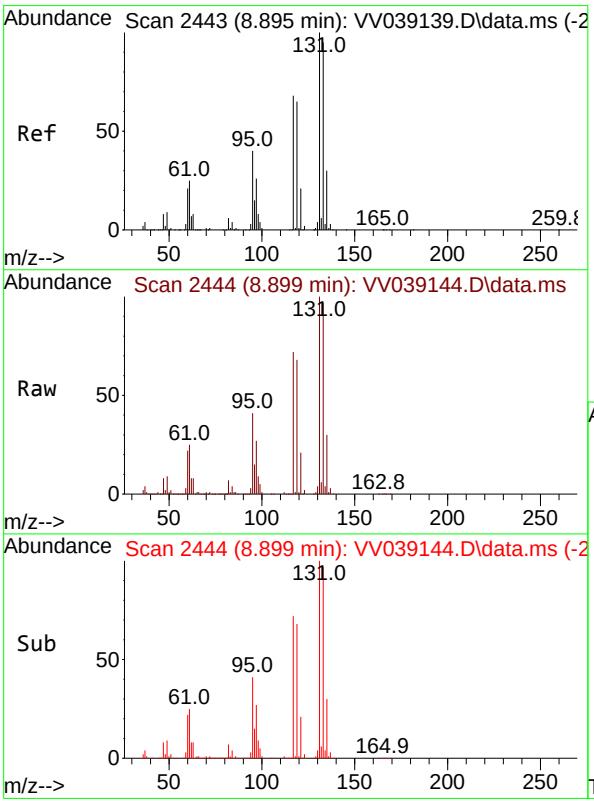
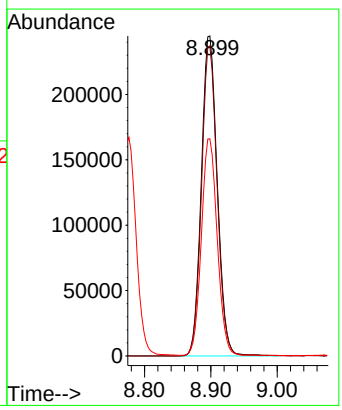


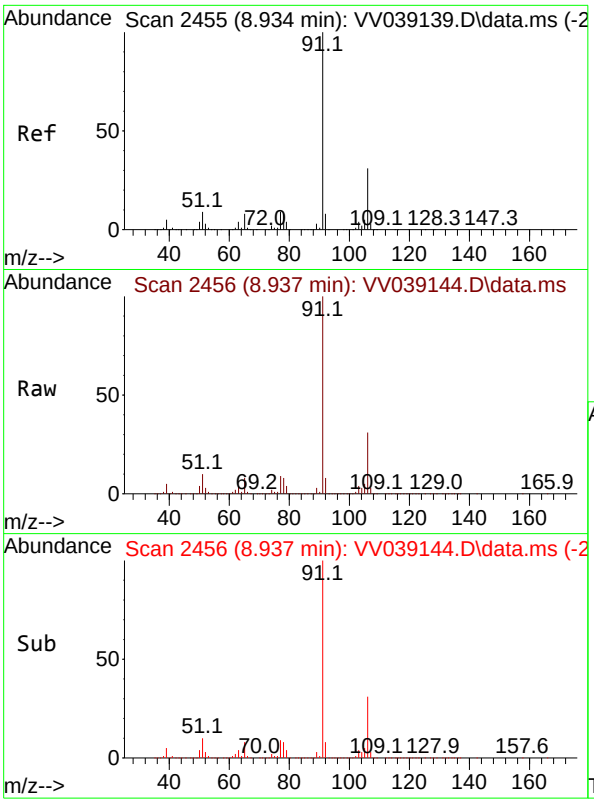


#66
1,1,1,2-Tetrachloroethane
Concen: 50.136 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:131 Resp: 409401

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.3	141.8
119	66.9	33.3	99.8





#67
Ethyl Benzene
Concen: 57.438 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 196494

Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.6	37.0

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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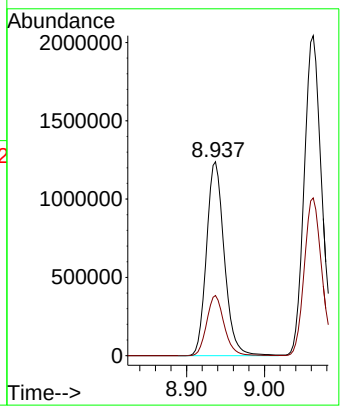
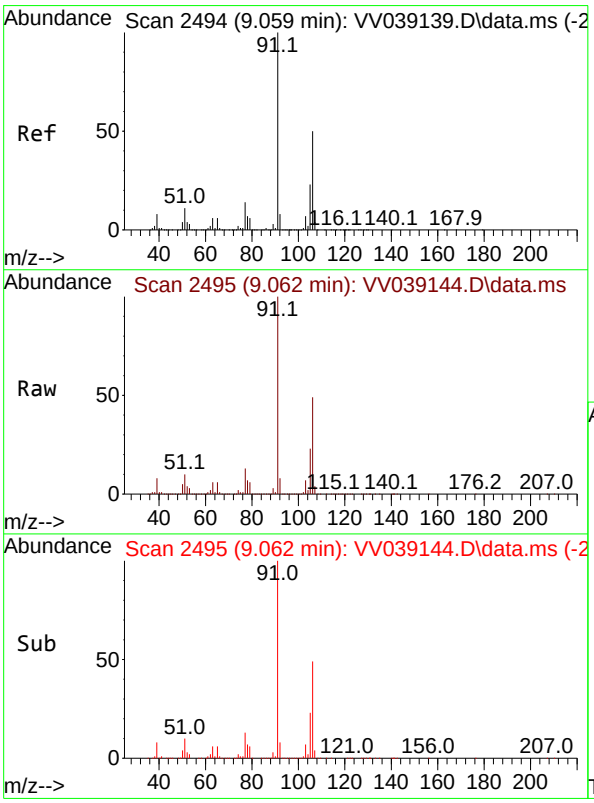
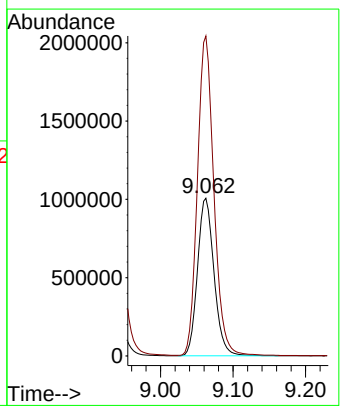


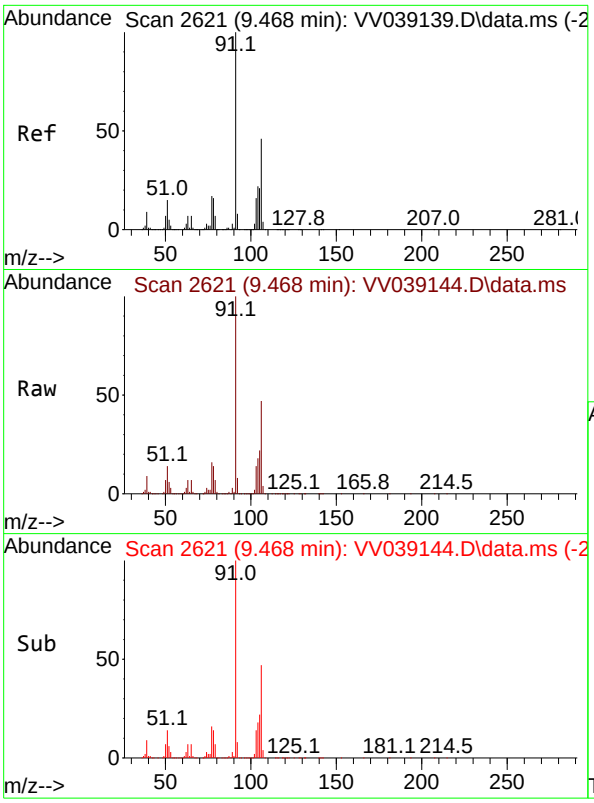


#68
m/p-Xylenes
Concen: 120.582 ug/l
RT: 9.062 min Scan# 2495
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:106 Resp: 1592118

Ion	Ratio	Lower	Upper
106	100		
91	203.1	162.5	243.7





#69
o-Xylene
Concen: 60.414 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:106 Resp: 70630

Ion	Ratio	Lower	Upper
106	100		
91	215.7	109.1	327.3

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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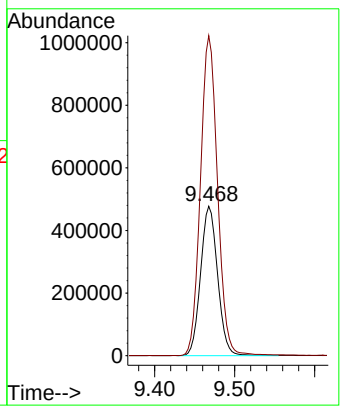
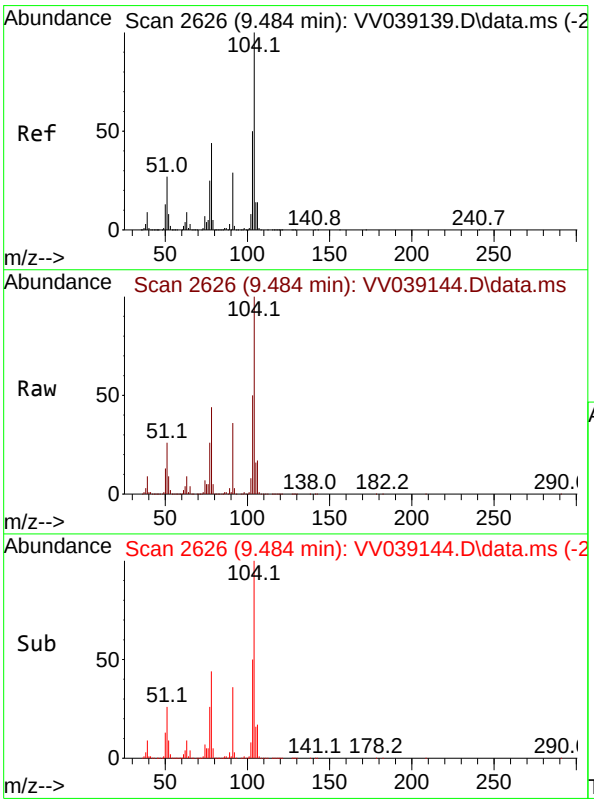
Supervised By :Semsettin Yesilyurt 09/26/2025

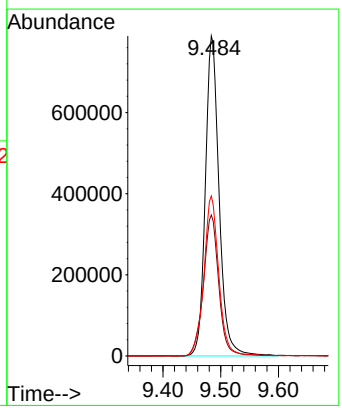


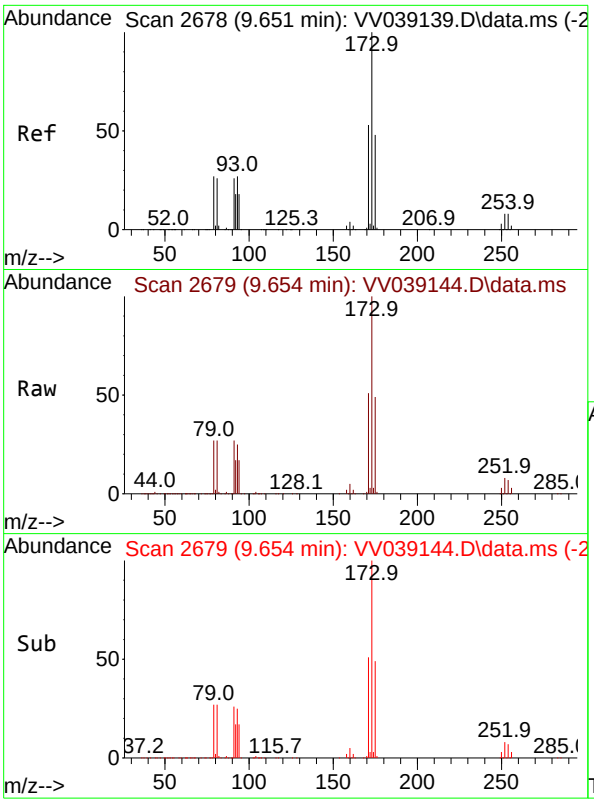


#70
Styrene
Concen: 52.671 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:104 Resp: 1306032

Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.8	59.6
103	54.4	43.4	65.2

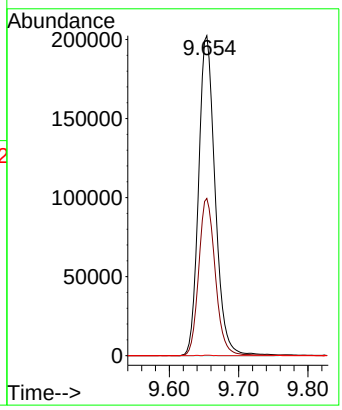




#71
Bromoform
Concen: 52.585 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:173 Resp: 33541

Ion	Ratio	Lower	Upper
173	100		
175	49.3	23.9	71.7
254	0.1	0.1	0.1



Instrument :
MSVOA_V
ClientSampleId :
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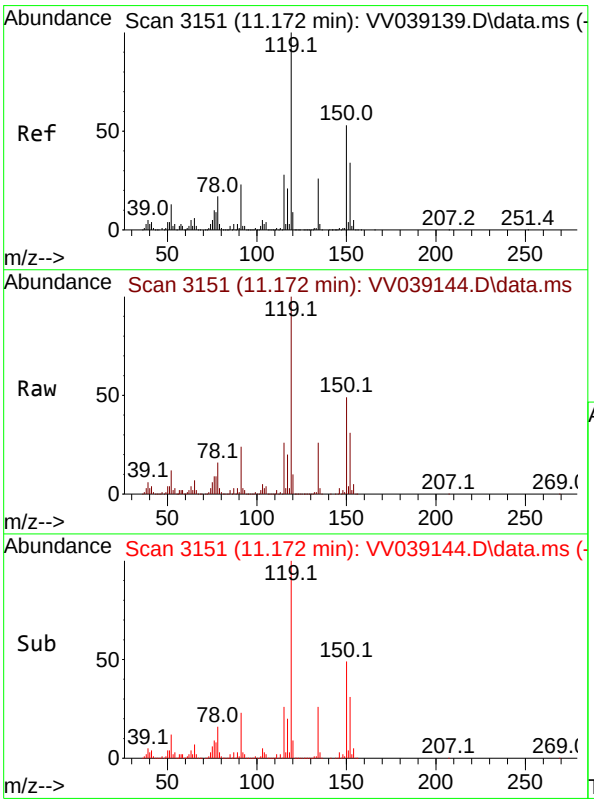
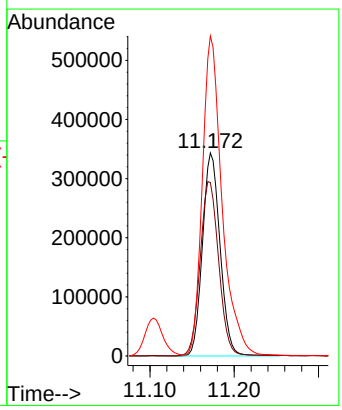
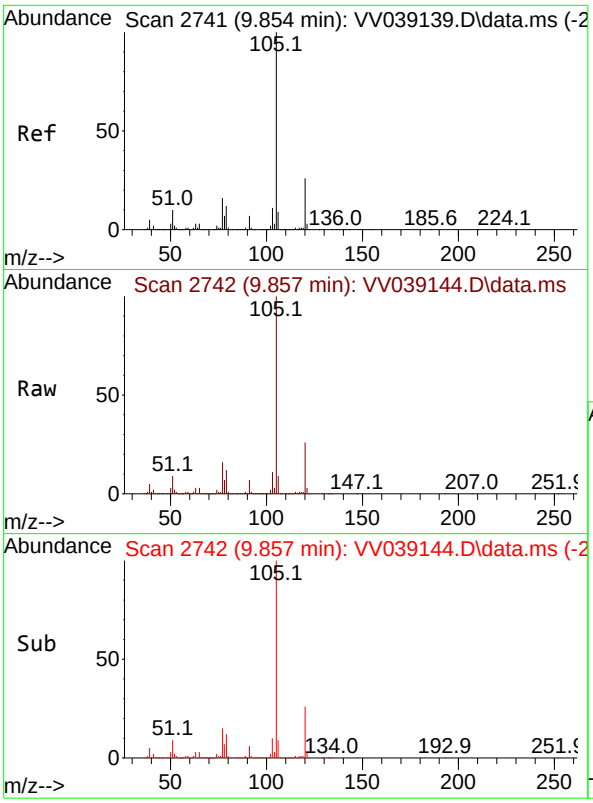


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:152 Resp: 500088

Ion	Ratio	Lower	Upper
152	100		
115	90.2	44.8	134.4
150	176.9	0.0	353.8

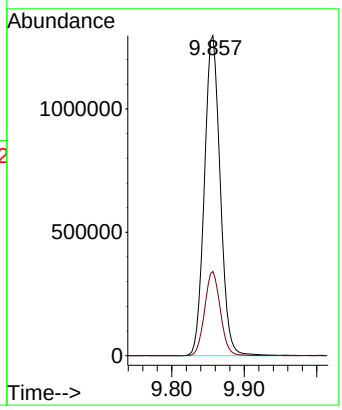




#73
Isopropylbenzene
Concen: 54.210 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 196628

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.1	39.1



Instrument :
MSVOA_V
ClientSampleId :
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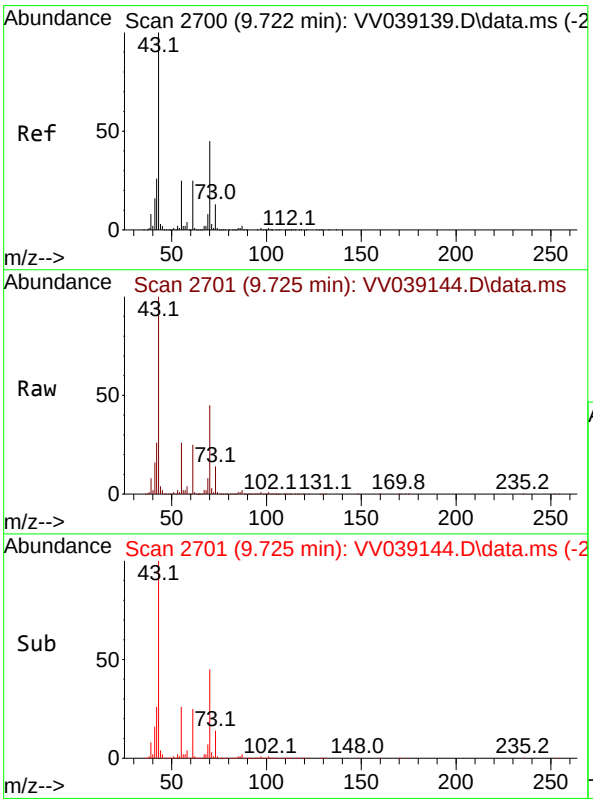
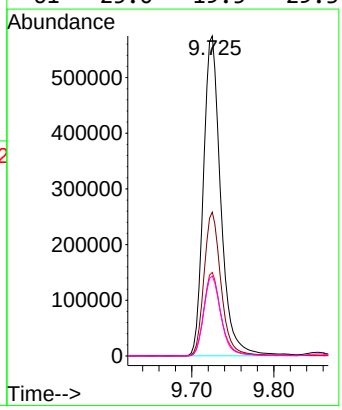
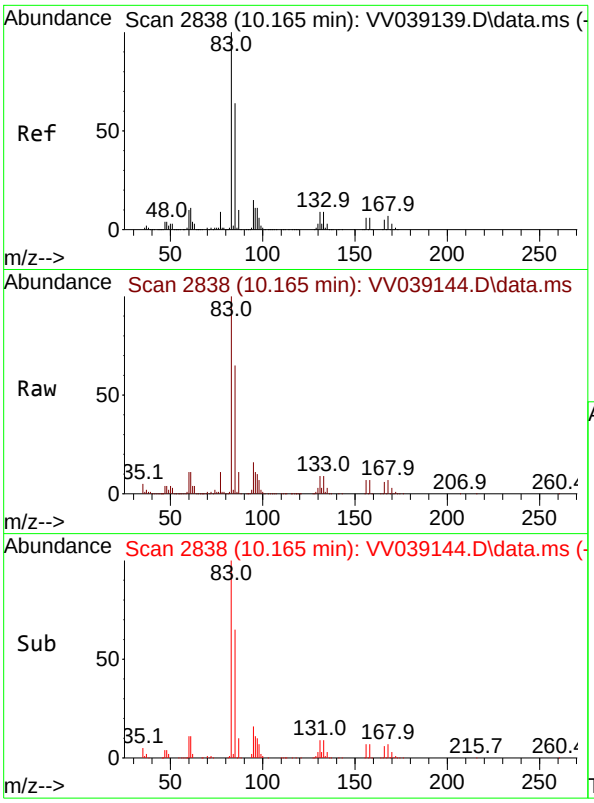


#74
N-amyl acetate
Concen: 58.135 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 841099

Ion	Ratio	Lower	Upper
43	100		
70	44.4	35.4	53.0
55	26.0	20.6	30.8
61	25.0	19.5	29.3

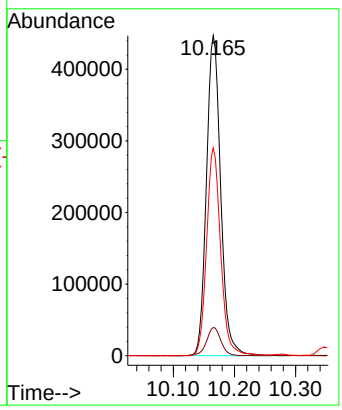




#75
1,1,2,2-Tetrachloroethane
Concen: 45.610 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 72486

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.7
85	64.0	31.9	95.9



Instrument :
MSVOA_V
ClientSampleId :
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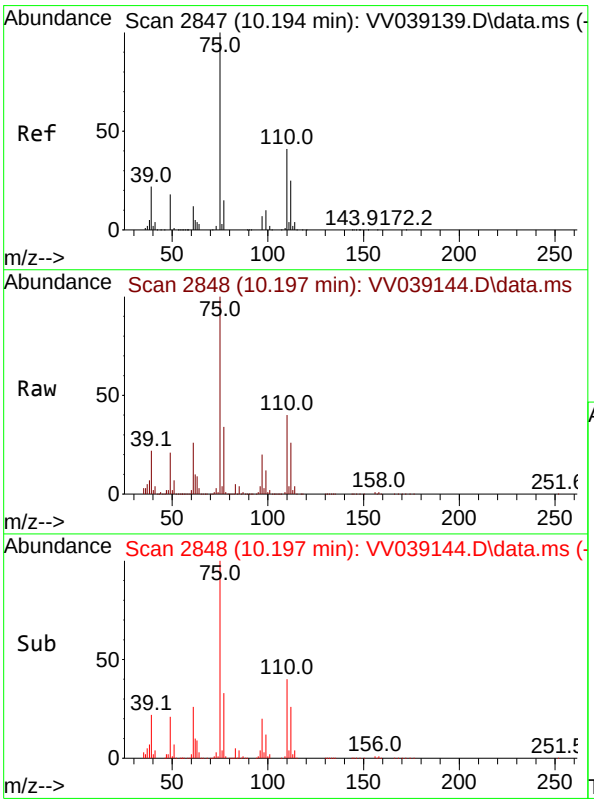
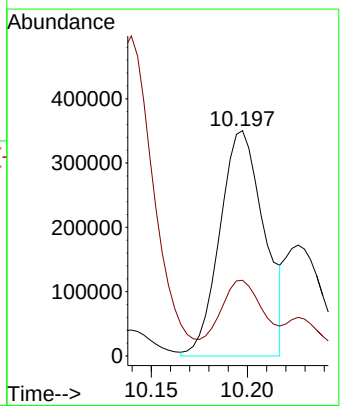
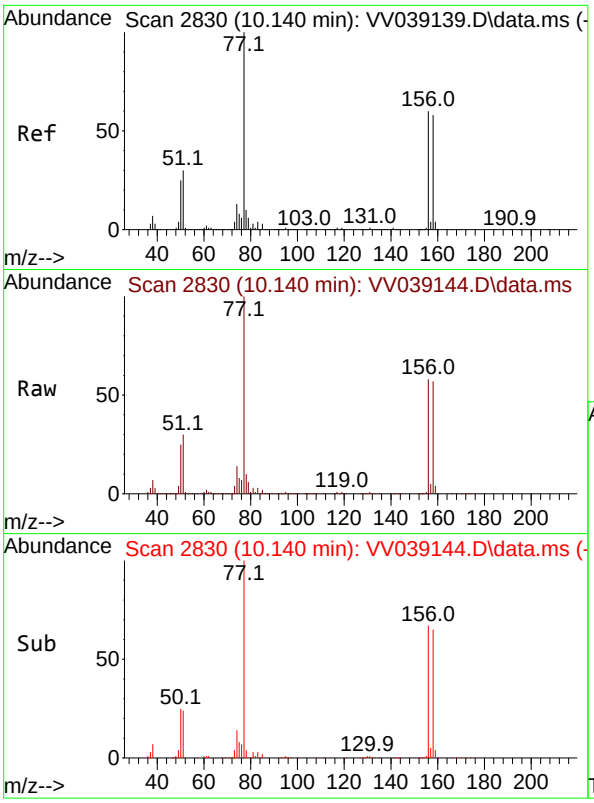


#76
1,2,3-Trichloropropane
Concen: 49.515 ug/l m
RT: 10.197 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 563785

Ion	Ratio	Lower	Upper
75	100		
77	13.7	11.3	33.8

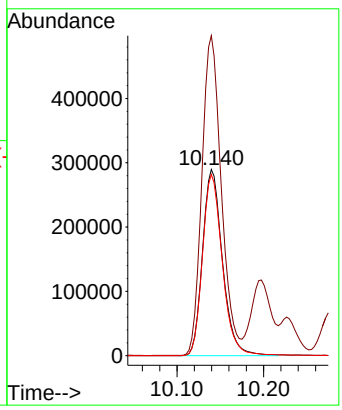




#77
Bromobenzene
Concen: 49.193 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:156 Resp: 46293

Ion	Ratio	Lower	Upper
156	100		
77	168.2	83.4	250.1
158	97.3	48.8	146.4



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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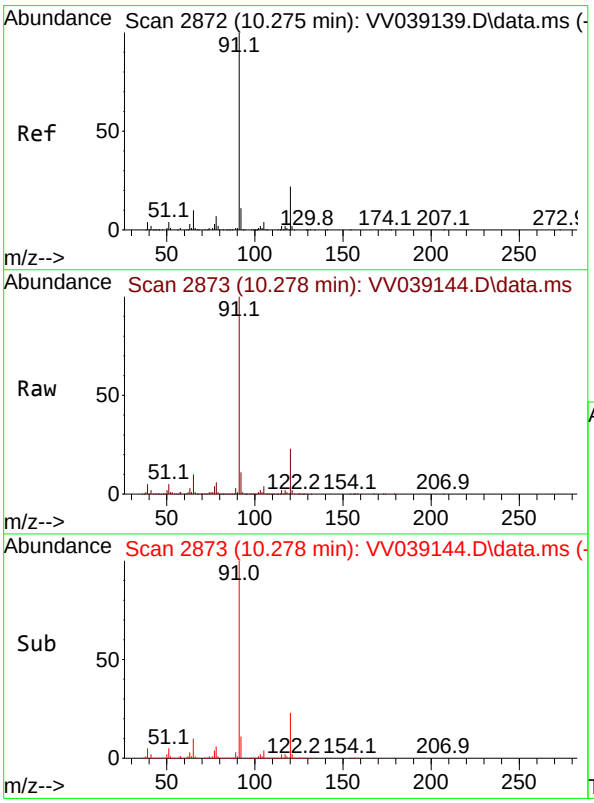
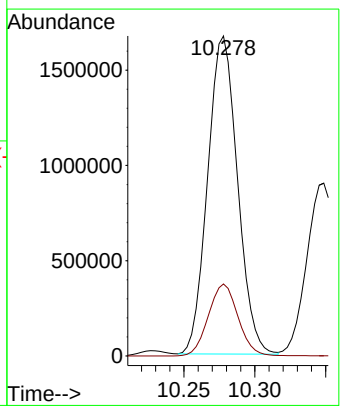
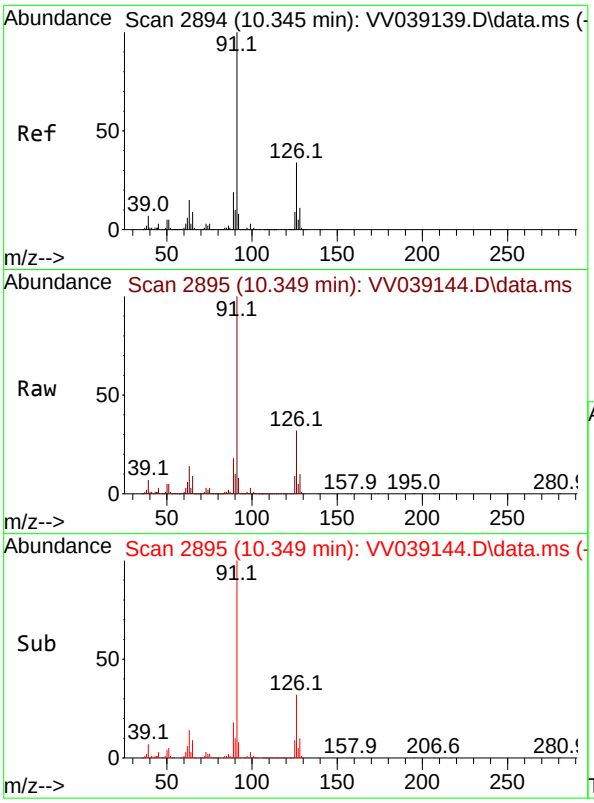


#78
n-propylbenzene
Concen: 55.347 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 2444658

Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.3

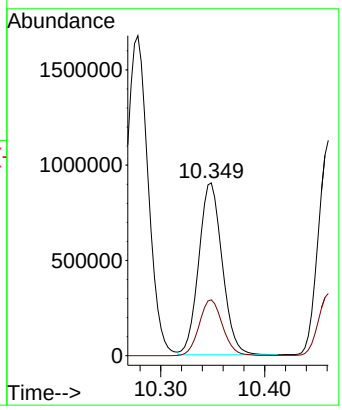




#79
2-Chlorotoluene
Concen: 53.426 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 141204

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.7	50.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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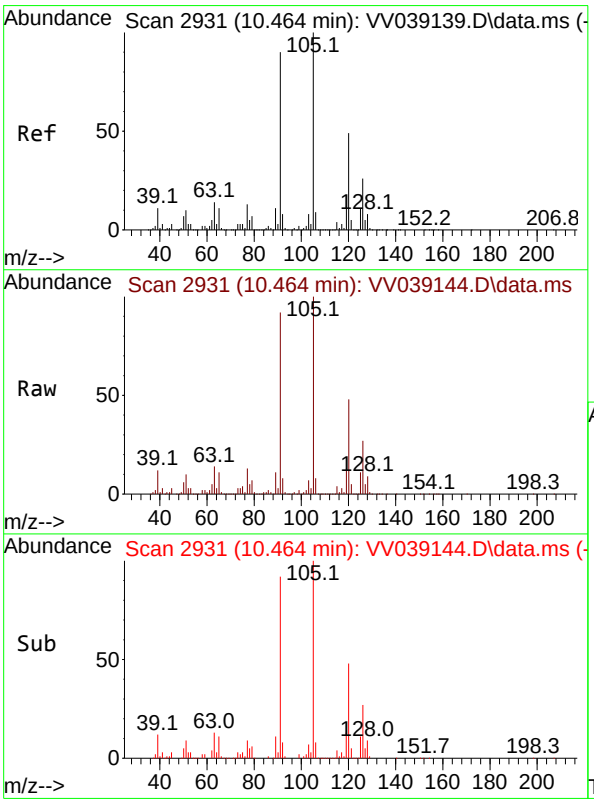
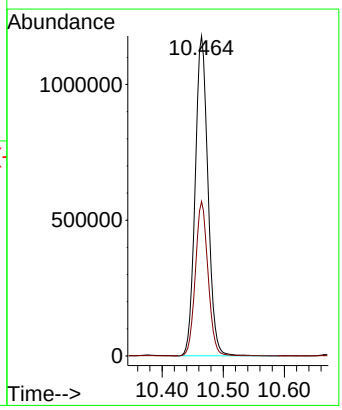
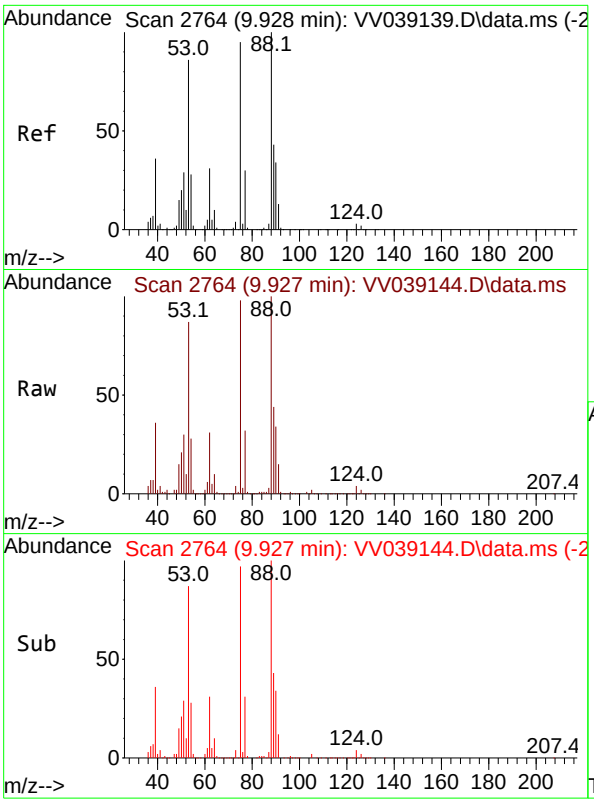


#80
1,3,5-Trimethylbenzene
Concen: 56.698 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 1709353

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.3	72.8





#81
trans-1,4-Dichloro-2-butene
Concen: 52.262 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 24787

Ion	Ratio	Lower	Upper
75	100		
53	90.6	72.5	108.7
89	44.6	37.2	55.8

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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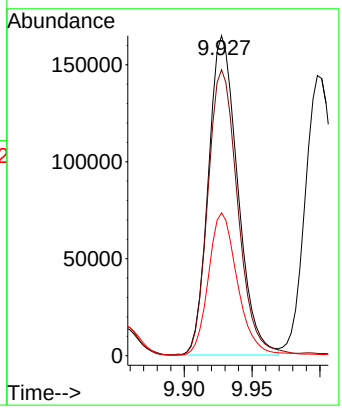
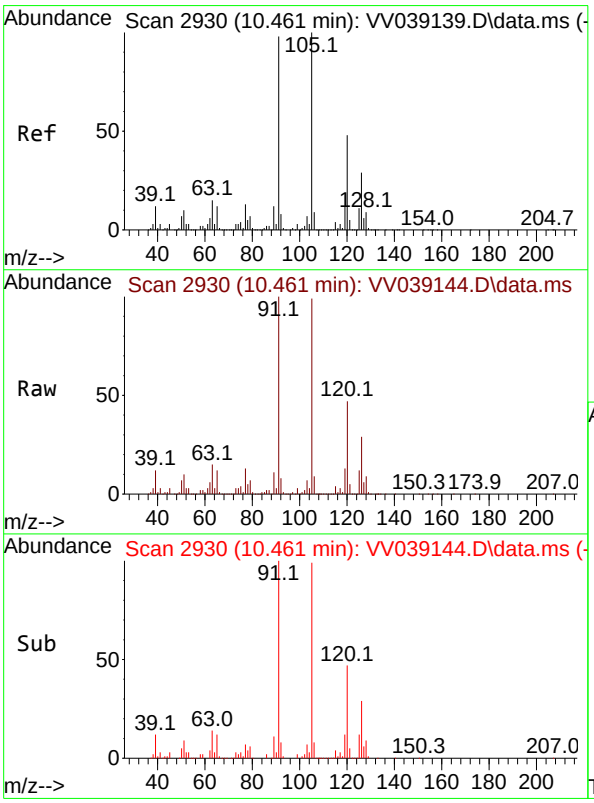
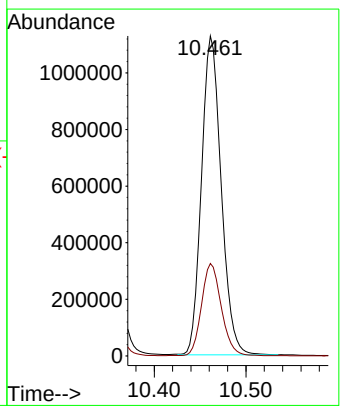


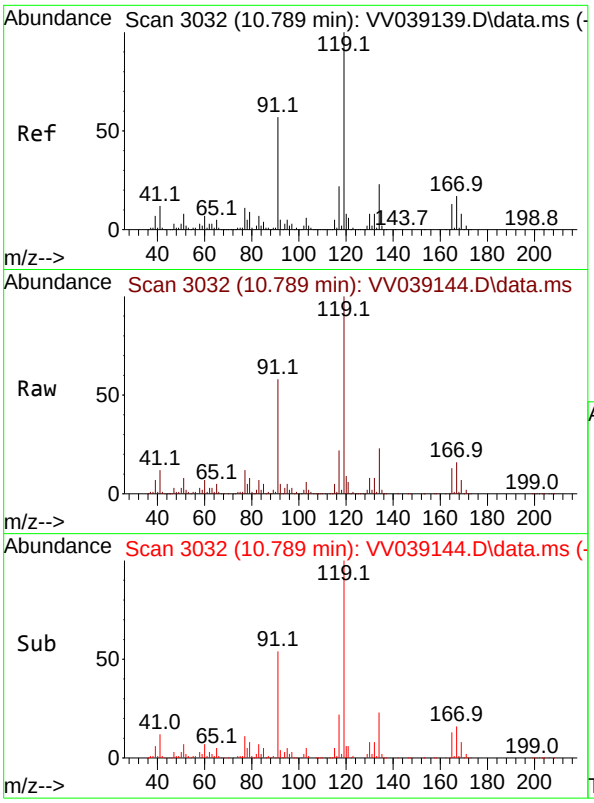


#82
4-Chlorotoluene
Concen: 54.824 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 1680201

Ion	Ratio	Lower	Upper
91	100		
126	28.9	14.5	43.6

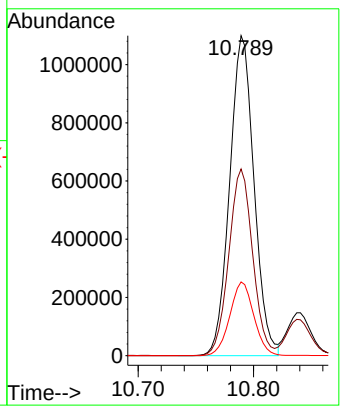




#83
tert-Butylbenzene
Concen: 53.584 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:119 Resp: 161087

Ion	Ratio	Lower	Upper
119	100		
91	57.1	28.5	85.6
134	22.9	11.5	34.4



Instrument :
MSVOA_V
ClientSampleId :
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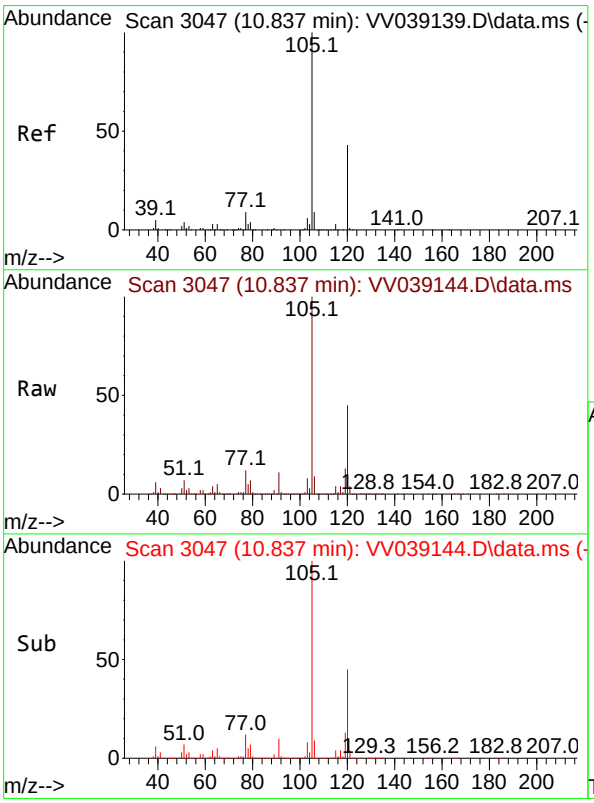
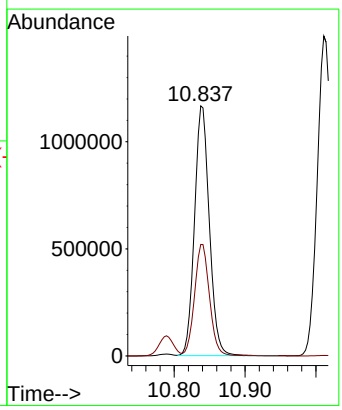
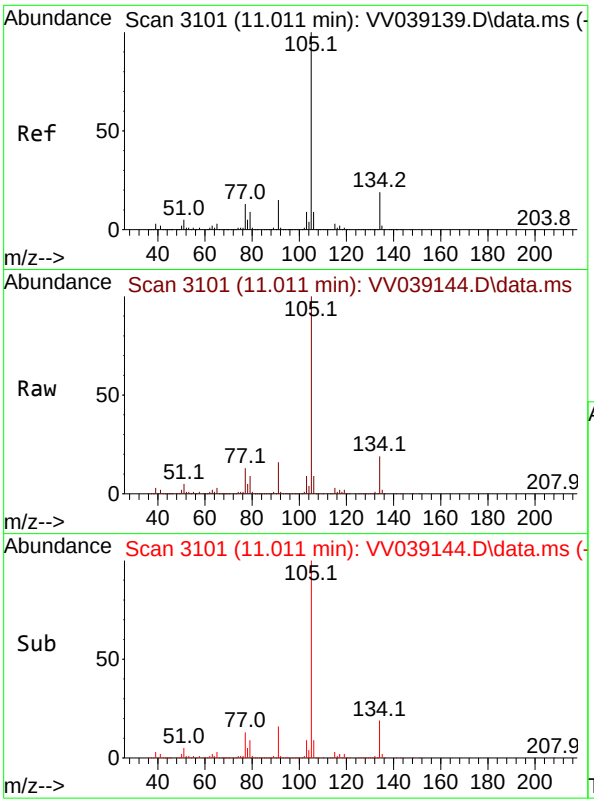


#84
1,2,4-Trimethylbenzene
Concen: 57.944 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 1695994

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.4	67.2

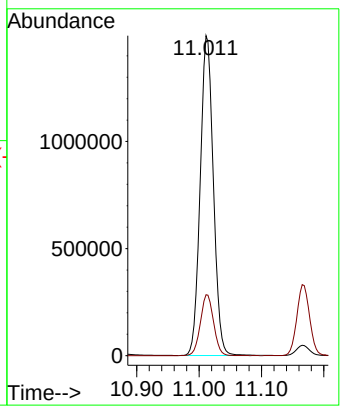




#85
sec-Butylbenzene
Concen: 54.911 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 218954

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.6	28.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

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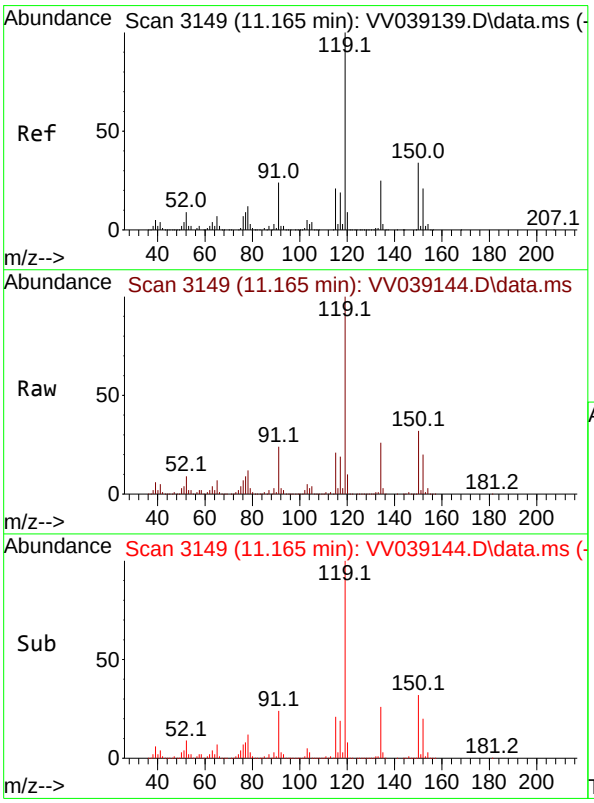
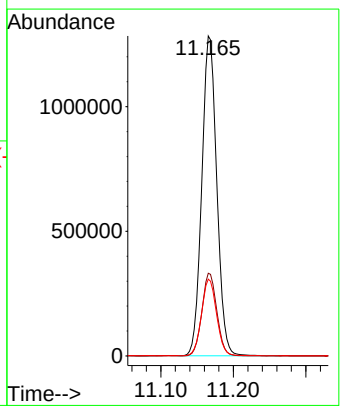
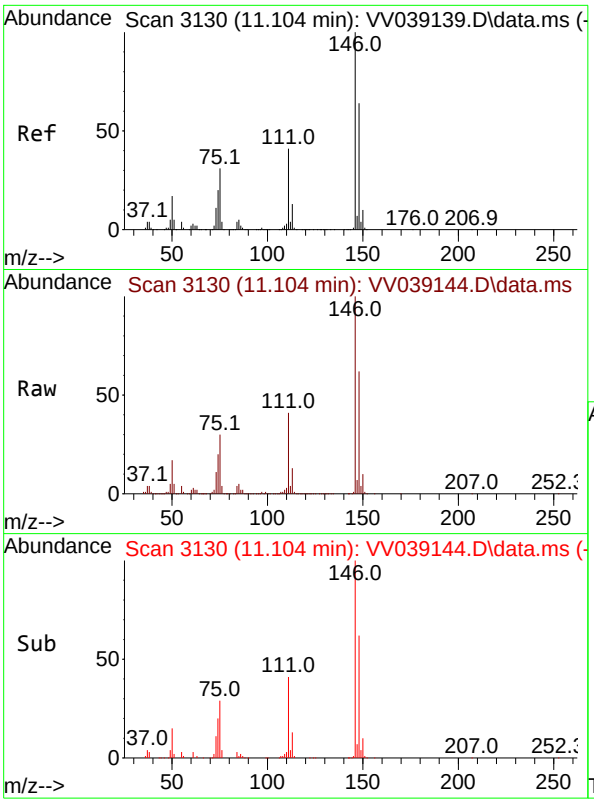


#86
p-Isopropyltoluene
Concen: 55.495 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:119 Resp: 1841747

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.7	38.0
91	24.0	12.0	36.1

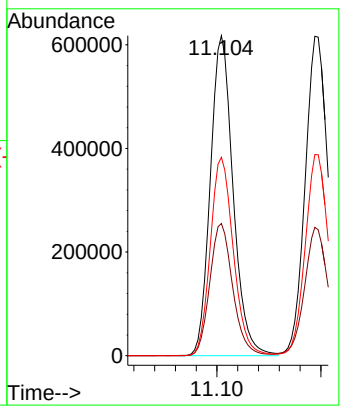




#87
1,3-Dichlorobenzene
Concen: 49.328 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 93948

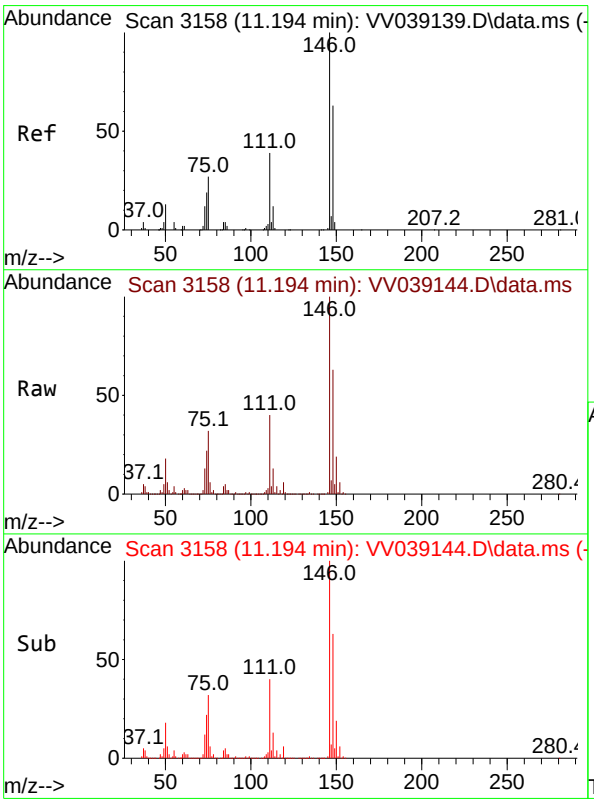
Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.9	62.8
148	62.8	31.8	95.3



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

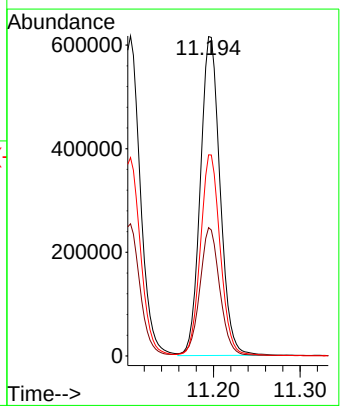
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

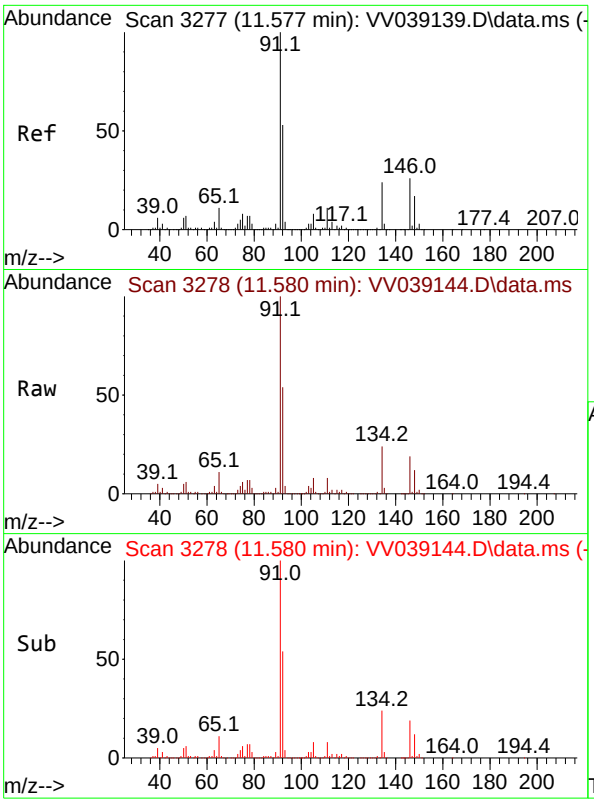


#88
1,4-Dichlorobenzene
Concen: 46.502 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 971665

Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.3	60.8
148	64.0	31.4	94.2

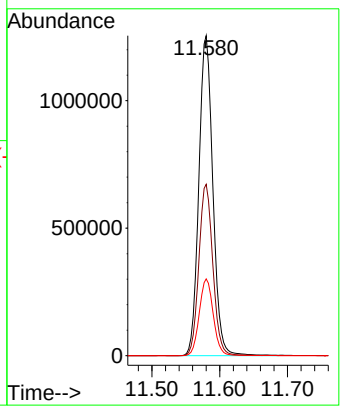




#89
n-Butylbenzene
Concen: 56.740 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 179841

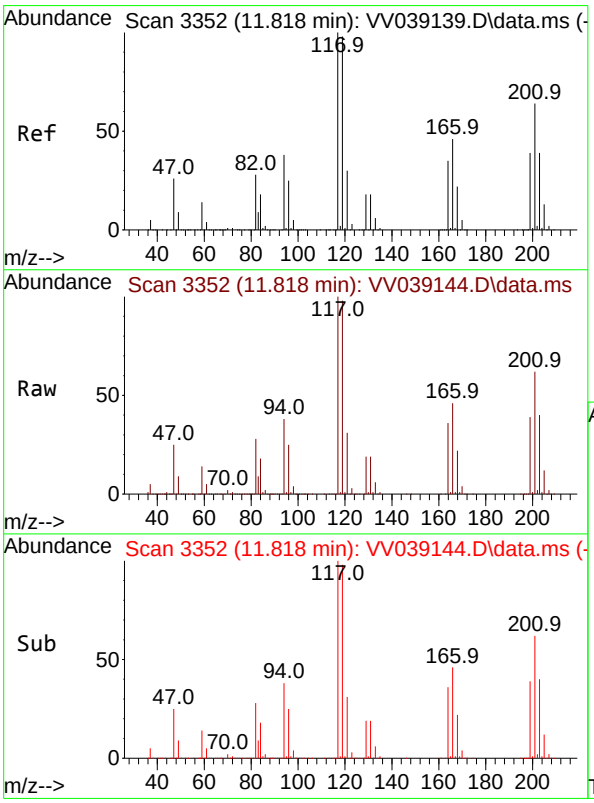
Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.8
134	24.0	12.1	36.3



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

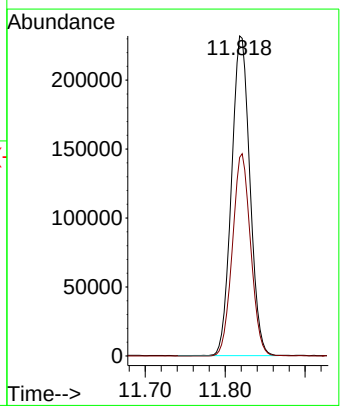
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

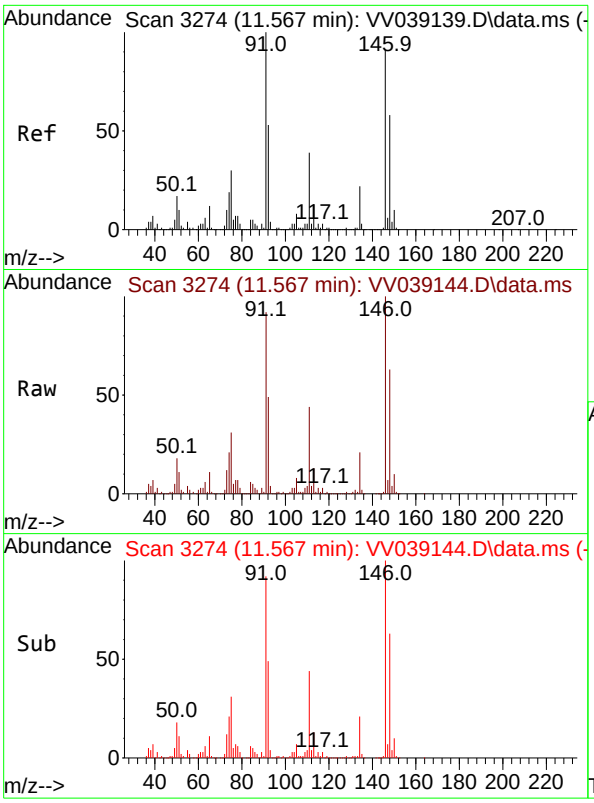


#90
Hexachloroethane
Concen: 45.296 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:117 Resp: 370188

Ion	Ratio	Lower	Upper
117	100		
201	62.9	32.3	96.8

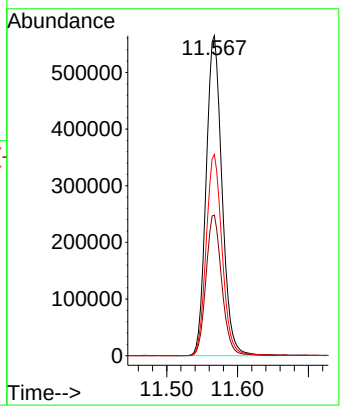




#91
1,2-Dichlorobenzene
Concen: 49.362 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 87834

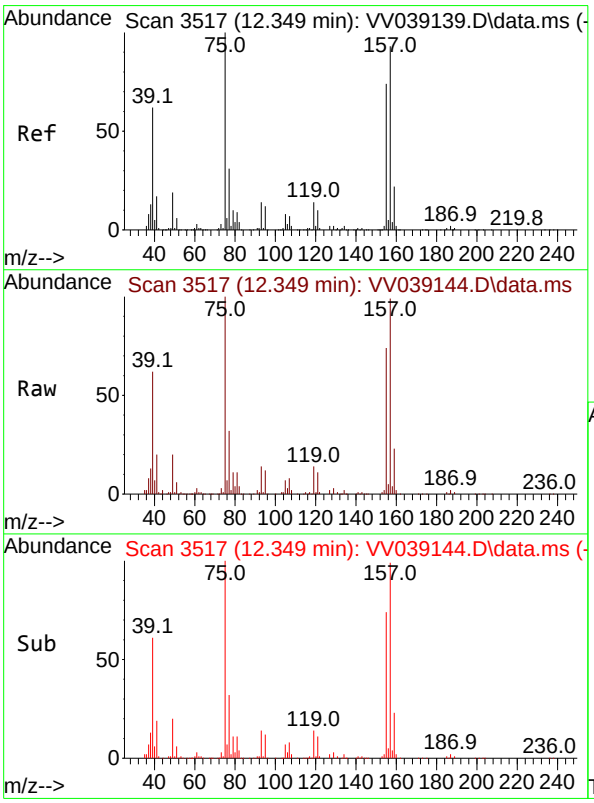
Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.5	64.5
148	63.4	31.9	95.7



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

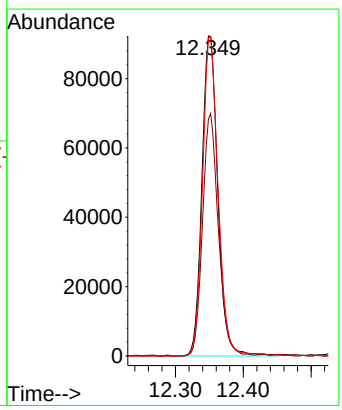
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

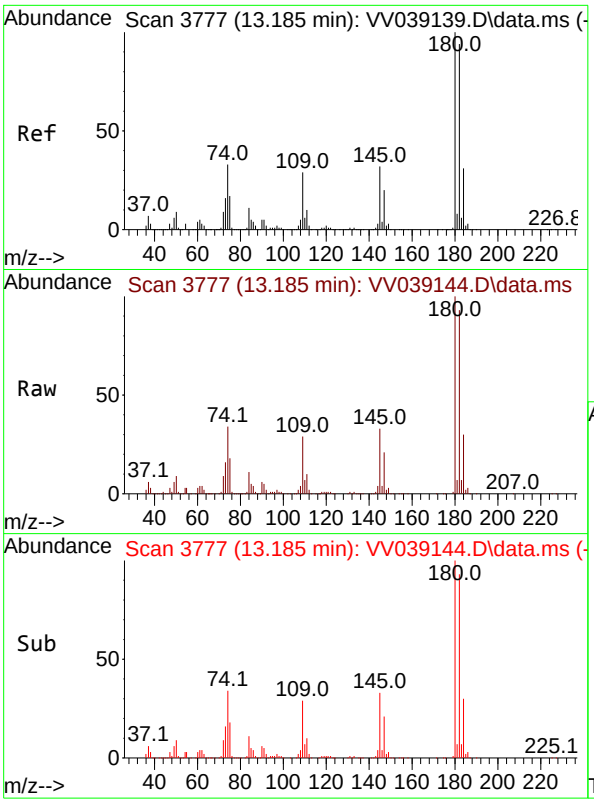


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.479 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 150399

Ion	Ratio	Lower	Upper
75	100		
155	75.5	38.6	115.8
157	97.3	49.5	148.3

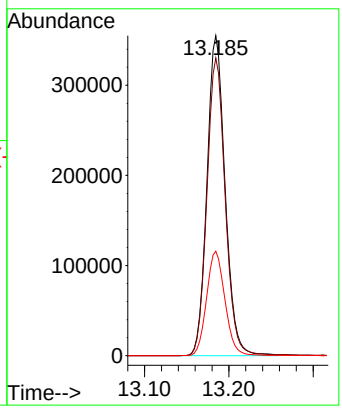




#93
1,2,4-Trichlorobenzene
Concen: 52.259 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:180 Resp: 53304

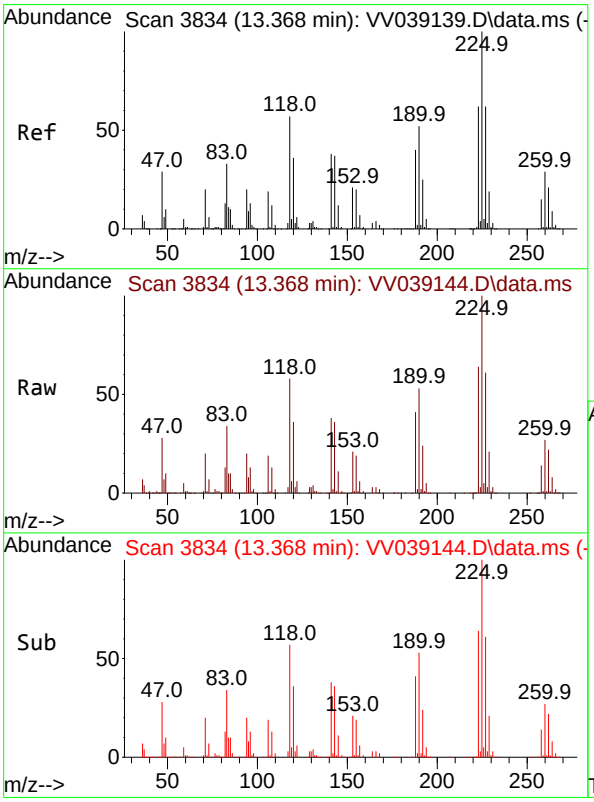
Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.1	141.4
145	33.1	16.3	48.8



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations APPROVED

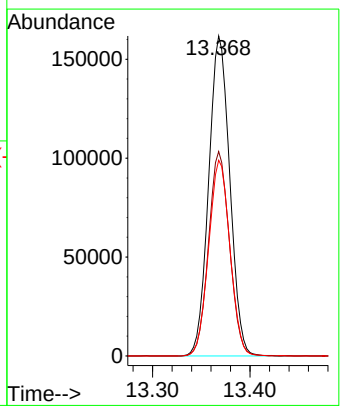
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

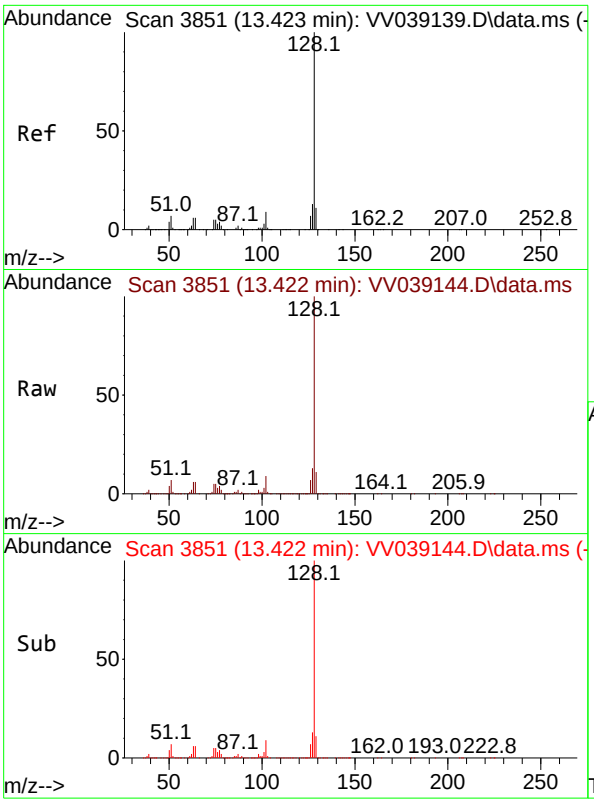


#94
Hexachlorobutadiene
Concen: 45.942 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:225 Resp: 243496

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.6	94.7
227	61.7	31.8	95.4

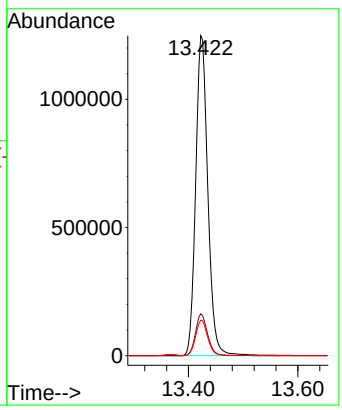




#95
Naphthalene
Concen: 58.231 ug/l
RT: 13.422 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:128 Resp: 191977

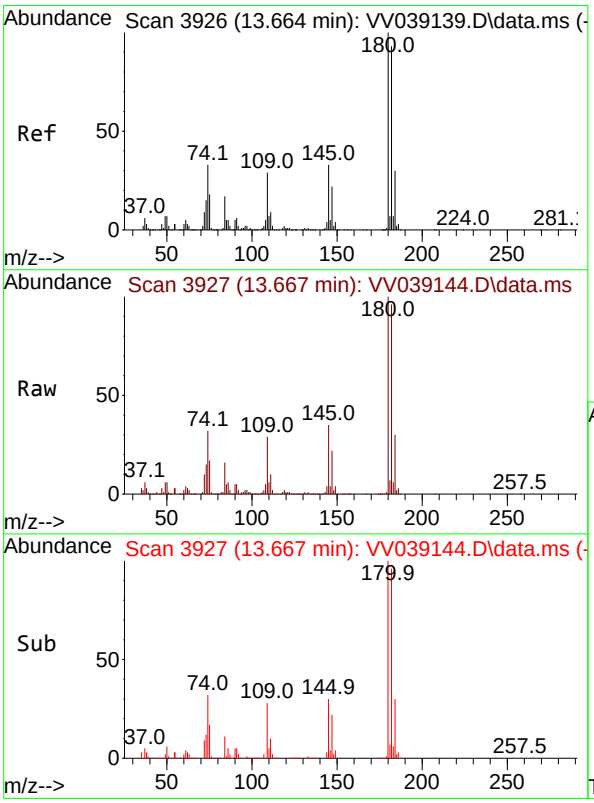
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.9	8.6	13.0



Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Manual Integrations
APPROVED

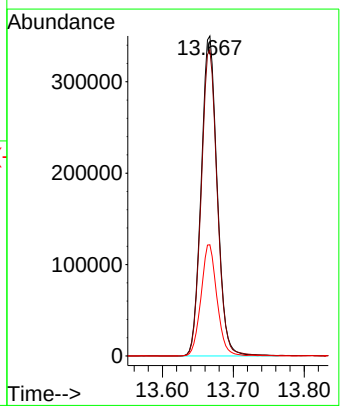
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.633 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:180 Resp: 549079

Ion	Ratio	Lower	Upper
180	100		
182	95.9	46.9	140.8
145	34.6	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	0.791	0.716	9.5	91	0.00
3	P	Chloromethane	0.850	0.791	6.9	97	0.00
4	C	Vinyl Chloride	0.910	0.827	9.1#	93	0.00
5	T	Bromomethane	0.573	0.517	9.8	96	0.00
6	T	Chloroethane	0.631	0.544	13.8	96	0.00
7	T	Trichlorofluoromethane	1.317	1.224	7.1	97	0.00
8	T	Diethyl Ether	0.489	0.451	7.8	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.784	0.728	7.1	98	0.00
10	T	Methyl Iodide	0.746	0.743	0.4	89	0.00
11	T	Tert butyl alcohol	0.153	0.154	-0.7	106	0.00
12	CM	1,1-Dichloroethene	0.754	0.692	8.2#	97	0.00
13	T	Acrolein	0.027	0.029	-7.4	103	0.00
14	T	Allyl chloride	1.347	1.268	5.9	96	0.00
15	T	Acrylonitrile	0.490	0.470	4.1	101	0.00
16	T	Acetone	0.523	0.426	18.5	89	0.00
17	T	Carbon Disulfide	2.306	2.101	8.9	95	0.00
18	T	Methyl Acetate	1.072	1.063	0.8	102	0.00
19	T	Methyl tert-butyl Ether	2.402	2.269	5.5	96	0.00
20	T	Methylene Chloride	1.066	0.804	24.6#	97	0.00
21	T	trans-1,2-Dichloroethene	0.803	0.737	8.2	96	0.00
22	T	Diisopropyl ether	2.576	2.554	0.9	95	0.00
23	T	Vinyl Acetate	2.254	2.241	0.6	96	0.00
24	P	1,1-Dichloroethane	1.576	1.435	8.9	97	0.00
25	T	2-Butanone	0.579	0.607	-4.8	98	0.00
26	T	2,2-Dichloropropane	1.397	1.222	12.5	93	0.00
27	T	cis-1,2-Dichloroethene	0.885	0.867	2.0	94	0.00
28	T	Bromochloromethane	0.696	0.725	-4.2	101	0.00
29	T	Tetrahydrofuran	0.363	0.401	-10.5	102	0.00
30	C	Chloroform	1.645	1.546	6.0#	98	0.00
31	T	Cyclohexane	1.291	1.234	4.4	93	0.00
32	T	1,1,1-Trichloroethane	1.424	1.337	6.1	97	0.00
33	S	1,2-Dichloroethane-d4	0.724	0.695	4.0	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.402	0.409	-1.7	99	0.00
36	T	1,1-Dichloropropene	0.608	0.654	-7.6	97	0.00
37	T	Ethyl Acetate	0.737	0.768	-4.2	99	0.00
38	T	Carbon Tetrachloride	0.743	0.735	1.1	96	0.00
39	T	Methylcyclohexane	0.734	0.843	-14.9	94	0.00
40	TM	Benzene	1.979	2.070	-4.6	96	0.00
41	T	Methacrylonitrile	0.273	0.345	-26.4#	96	0.00
42	TM	1,2-Dichloroethane	0.693	0.711	-2.6	98	0.00
43	T	Isopropyl Acetate	1.005	1.126	-12.0	97	0.00
44	TM	Trichloroethene	0.457	0.468	-2.4	93	0.00
45	C	1,2-Dichloropropane	0.492	0.536	-8.9#	98	0.00
46	T	Dibromomethane	0.376	0.385	-2.4	96	0.00
47	T	Bromodichloromethane	0.778	0.797	-2.4	97	0.00
48	T	Methyl methacrylate	0.456	0.539	-18.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.008	-14.3	102	0.00
50	S	Toluene-d8	1.181	1.232	-4.3	100	0.00
51	T	4-Methyl-2-Pentanone	0.661	0.802	-21.3#	101	0.00
52	CM	Toluene	1.147	1.297	-13.1#	97	0.00
53	T	t-1,3-Dichloropropene	0.678	0.757	-11.7	96	0.00
54	T	cis-1,3-Dichloropropene	0.749	0.841	-12.3	95	0.00
55	T	1,1,2-Trichloroethane	0.514	0.527	-2.5	98	0.00
56	T	Ethyl methacrylate	0.611	0.743	-21.6#	95	0.00
57	T	1,3-Dichloropropane	0.812	0.873	-7.5	98	0.00
58	T	2-Chloroethyl Vinyl ether	0.267	0.359	-34.5#	93	0.00
59	T	2-Hexanone	0.463	0.600	-29.6#	101	0.00
60	T	Dibromochloromethane	0.586	0.609	-3.9	99	0.00
61	T	1,2-Dibromoethane	0.526	0.561	-6.7	97	0.00
62	S	4-Bromofluorobenzene	0.486	0.552	-13.6	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.419	0.427	-1.9	97	0.00
65	PM	Chlorobenzene	1.393	1.422	-2.1	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.503	0.505	-0.4	97	0.00
67	C	Ethyl Benzene	2.108	2.422	-14.9#	95	0.00
68	T	m/p-Xylenes	0.814	0.981	-20.5#	97	0.00
69	T	o-Xylene	0.720	0.871	-21.0#	97	0.00
70	T	Styrene	1.263	1.610	-27.5#	97	0.00
71	P	Bromoform	0.393	0.413	-5.1	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.627	3.932	-8.4	97	0.00
74	T	N-amyl acetate	1.447	1.682	-16.2	97	0.00
75	P	1,1,2,2-Tetrachloroethane	1.589	1.449	8.8	99	0.00
76	T	1,2,3-Trichloropropane	1.138	1.127	1.0	104	0.00
77	T	Bromobenzene	0.941	0.926	1.6	97	0.00
78	T	n-propylbenzene	4.416	4.888	-10.7	97	0.00
79	T	2-Chlorotoluene	2.643	2.824	-6.8	97	0.00
80	T	1,3,5-Trimethylbenzene	3.014	3.418	-13.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.474	0.496	-4.6	97	0.00
82	T	4-Chlorotoluene	3.064	3.360	-9.7	98	0.00
83	T	tert-Butylbenzene	3.006	3.221	-7.2	97	0.00
84	T	1,2,4-Trimethylbenzene	2.926	3.391	-15.9	97	0.00
85	T	sec-Butylbenzene	3.987	4.378	-9.8	97	0.00
86	T	p-Isopropyltoluene	3.318	3.683	-11.0	97	0.00
87	T	1,3-Dichlorobenzene	1.904	1.879	1.3	98	0.00
88	T	1,4-Dichlorobenzene	2.089	1.943	7.0	97	0.00
89	T	n-Butylbenzene	3.169	3.596	-13.5	96	0.00
90	T	Hexachloroethane	0.817	0.740	9.4	99	0.00
91	T	1,2-Dichlorobenzene	1.779	1.756	1.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.330	0.301	8.8	102	0.00
93	T	1,2,4-Trichlorobenzene	1.020	1.066	-4.5	96	0.00
94	T	Hexachlorobutadiene	0.530	0.487	8.1	98	0.00
95	T	Naphthalene	3.296	3.839	-16.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.098	-5.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.000	45.238	9.5	91	0.00
3	P	Chloromethane	50.000	46.523	7.0	97	0.00
4	C	Vinyl Chloride	50.000	45.467	9.1#	93	0.00
5	T	Bromomethane	50.000	45.085	9.8	96	0.00
6	T	Chloroethane	50.000	50.873	-1.7	96	0.00
7	T	Trichlorofluoromethane	50.000	46.452	7.1	97	0.00
8	T	Diethyl Ether	50.000	46.136	7.7	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.465	7.1	98	0.00
10	T	Methyl Iodide	50.000	49.783	0.4	89	0.00
11	T	Tert butyl alcohol	250.000	252.173	-0.9	106	0.00
12	CM	1,1-Dichloroethene	50.000	45.922	8.2#	97	0.00
13	T	Acrolein	250.000	271.925	-8.8	103	0.00
14	T	Allyl chloride	50.000	47.092	5.8	96	0.00
15	T	Acrylonitrile	250.000	239.637	4.1	101	0.00
16	T	Acetone	250.000	237.325	5.1	89	0.00
17	T	Carbon Disulfide	50.000	45.563	8.9	95	0.00
18	T	Methyl Acetate	50.000	49.579	0.8	102	0.00
19	T	Methyl tert-butyl Ether	50.000	47.223	5.6	96	0.00
20	T	Methylene Chloride	50.000	51.536	-3.1	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.915	8.2	96	0.00
22	T	Diisopropyl ether	50.000	49.556	0.9	95	0.00
23	T	Vinyl Acetate	250.000	248.597	0.6	96	0.00
24	P	1,1-Dichloroethane	50.000	45.536	8.9	97	0.00
25	T	2-Butanone	250.000	262.050	-4.8	98	0.00
26	T	2,2-Dichloropropane	50.000	43.721	12.6	93	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.960	2.1	94	0.00
28	T	Bromochloromethane	50.000	52.149	-4.3	101	0.00
29	T	Tetrahydrofuran	250.000	276.528	-10.6	102	0.00
30	C	Chloroform	50.000	46.980	6.0#	98	0.00
31	T	Cyclohexane	50.000	47.799	4.4	93	0.00
32	T	1,1,1-Trichloroethane	50.000	46.922	6.2	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.041	3.9	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	50.832	-1.7	99	0.00
36	T	1,1-Dichloropropene	50.000	53.809	-7.6	97	0.00
37	T	Ethyl Acetate	50.000	52.050	-4.1	99	0.00
38	T	Carbon Tetrachloride	50.000	49.452	1.1	96	0.00
39	T	Methylcyclohexane	50.000	57.426	-14.9	94	0.00
40	TM	Benzene	50.000	52.293	-4.6	96	0.00
41	T	Methacrylonitrile	50.000	51.602	-3.2	96	0.00
42	TM	1,2-Dichloroethane	50.000	51.245	-2.5	98	0.00
43	T	Isopropyl Acetate	50.000	55.998	-12.0	97	0.00
44	TM	Trichloroethene	50.000	51.216	-2.4	93	0.00
45	C	1,2-Dichloropropane	50.000	54.495	-9.0#	98	0.00
46	T	Dibromomethane	50.000	51.116	-2.2	96	0.00
47	T	Bromodichloromethane	50.000	51.232	-2.5	97	0.00
48	T	Methyl methacrylate	50.000	59.104	-18.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1133.346	-13.3	102	0.00
50	S	Toluene-d8	50.000	52.199	-4.4	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	303.119	-21.2#	101	0.00
52	CM	Toluene	50.000	56.517	-13.0#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	55.823	-11.6	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.154	-12.3	95	0.00
55	T	1,1,2-Trichloroethane	50.000	51.231	-2.5	98	0.00
56	T	Ethyl methacrylate	50.000	60.810	-21.6#	95	0.00
57	T	1,3-Dichloropropane	50.000	53.769	-7.5	98	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.936	-4.0	93	0.00
59	T	2-Hexanone	250.000	280.545	-12.2	101	0.00
60	T	Dibromochloromethane	50.000	51.926	-3.9	99	0.00
61	T	1,2-Dibromoethane	50.000	53.295	-6.6	97	0.00
62	S	4-Bromofluorobenzene	50.000	56.823	-13.6	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	50.954	-1.9	97	0.00
65	PM	Chlorobenzene	50.000	51.041	-2.1	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.136	-0.3	97	0.00
67	C	Ethyl Benzene	50.000	57.438	-14.9#	95	0.00
68	T	m/p-Xylenes	100.000	120.582	-20.6#	97	0.00
69	T	o-Xylene	50.000	60.414	-20.8#	97	0.00
70	T	Styrene	50.000	52.671	-5.3	97	0.00
71	P	Bromoform	50.000	52.585	-5.2	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	54.210	-8.4	97	0.00
74	T	N-amyl acetate	50.000	58.135	-16.3	97	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.610	8.8	99	0.00
76	T	1,2,3-Trichloropropane	50.000	49.515	1.0	104	0.00
77	T	Bromobenzene	50.000	49.193	1.6	97	0.00
78	T	n-propylbenzene	50.000	55.347	-10.7	97	0.00
79	T	2-Chlorotoluene	50.000	53.426	-6.9	97	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.698	-13.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.262	-4.5	97	0.00
82	T	4-Chlorotoluene	50.000	54.824	-9.6	98	0.00
83	T	tert-Butylbenzene	50.000	53.584	-7.2	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.944	-15.9	97	0.00
85	T	sec-Butylbenzene	50.000	54.911	-9.8	97	0.00
86	T	p-Isopropyltoluene	50.000	55.495	-11.0	97	0.00
87	T	1,3-Dichlorobenzene	50.000	49.328	1.3	98	0.00
88	T	1,4-Dichlorobenzene	50.000	46.502	7.0	97	0.00
89	T	n-Butylbenzene	50.000	56.740	-13.5	96	0.00
90	T	Hexachloroethane	50.000	45.296	9.4	99	0.00
91	T	1,2-Dichlorobenzene	50.000	49.362	1.3	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.479	-5.0	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.259	-4.5	96	0.00
94	T	Hexachlorobutadiene	50.000	45.942	8.1	98	0.00
95	T	Naphthalene	50.000	58.231	-16.5	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.633	-5.3	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: LOCK01
Lab Code: ACE
SDG No.: Q3254
Instrument ID: MSVOA_V
Calibration Date/Time: 10/03/2025 08:53
Lab File ID: VV039242.D
Init. Calib. Date(s): 09/22/2025 09/22/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 12:26 16:35
GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.910	0.797		-12.42	20
Chloroethane	0.631	0.533		-15.53	20
Trichlorofluoromethane	1.317	1.296		-1.6	20
1,1-Dichloroethene	0.754	0.737		-2.26	20
Acrylonitrile	0.490	0.450		-8.16	20
Acetone	0.523	0.465		-11.09	20
Carbon Disulfide	2.306	1.914		-17	20
Methylene Chloride	1.066	0.842		-21.01	20
Vinyl Acetate	2.254	2.045		-9.27	20
2-Butanone	0.579	0.545		-5.87	20
Carbon Tetrachloride	0.743	0.816		9.82	20
cis-1,2-Dichloroethene	0.885	0.850		-3.95	20
Bromochloromethane	0.696	0.695		-0.14	20
Chloroform	1.645	1.541		-6.32	20
1,1,1-Trichloroethane	1.424	1.326		-6.88	20
Benzene	1.979	2.157		8.99	20
1,2-Dichloropropane	0.492	0.557		13.21	20
Dibromomethane	0.376	0.419		11.44	20
Bromodichloromethane	0.778	0.870		11.82	20
4-Methyl-2-Pentanone	0.661	0.770		16.49	20
Toluene	1.147	1.390		21.19	20
t-1,3-Dichloropropene	0.678	0.811		19.62	20
cis-1,3-Dichloropropene	0.749	0.891		18.96	20
2-Hexanone	0.463	0.579		25.05	20
Dibromochloromethane	0.586	0.698		19.11	20
1,2-Dibromoethane	0.526	0.621		18.06	20
Tetrachloroethene	0.419	0.472		12.65	20
Chlorobenzene	1.393	1.547	0.3	10.98	20
1,1,1,2-Tetrachloroethane	0.503	0.582		15.71	20
Ethyl Benzene	2.108	2.531		20.07	20
m/p-Xylenes	0.814	1.051		29.11	20
o-Xylene	0.720	0.926		28.61	20
Styrene	1.263	1.770		40.14	20
Bromoform	0.393	0.490	0.1	24.68	20
1,1,2,2-Tetrachloroethane	1.589	1.472	0.3	-7.36	20
1,2,3-Trichloropropane	1.138	1.053		-7.47	20
1,4-Dichlorobenzene	2.089	2.097		0.38	20
1,2-Dichlorobenzene	1.779	1.851		4.05	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:	LOCK01
Lab Code:	ACE	SDG No.:	Q3254
Instrument ID:	MSVOA_V	Calibration Date/Time:	10/03/2025 08:53
Lab File ID:	VV039242.D	Init. Calib. Date(s):	09/22/2025 09/22/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	12:26 16:35

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
1,2-Dibromo-3-Chloropropane	0.330	0.287		-13.03	20
1,2-Dichloroethane-d4	0.724	0.604		-16.58	20
Dibromofluoromethane	0.402	0.442		9.95	20
Toluene-d8	1.181	1.194		1.1	20
4-Bromofluorobenzene	0.486	0.586		20.58	20
Methyl Iodide	0.746	0.854		14.48	20
trans-1,4-Dichloro-2-butene	0.474	0.497		4.85	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_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.596	168	504801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	717875	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	718198	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	467640	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	305033	41.751	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 83.500%			
35) Dibromofluoromethane	4.497	113	317481	55.012	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 110.020%			
50) Toluene-d8	7.233	98	856835	50.551	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 101.100%			
62) 4-Bromofluorobenzene	9.998	95	420941	60.326	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 120.660%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	342379	42.846	ug/l	98
3) Chloromethane	1.230	50	355916	41.489	ug/l	98
4) Vinyl Chloride	1.298	62	402428	43.819	ug/l	99
5) Bromomethane	1.494	94	264412	45.671	ug/l	100
6) Chloroethane	1.561	64	269107	49.756	ug/l	99
7) Trichlorofluoromethane	1.725	101	654327	49.210	ug/l	100
8) Diethyl Ether	1.918	74	239899	48.601	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.082	101	393714	49.765	ug/l	96
10) Methyl Iodide	2.198	142	430956	57.201	ug/l	98
11) Tert butyl alcohol	2.564	59	340440	220.472	ug/l	100
12) 1,1-Dichloroethene	2.082	96	371821	48.853	ug/l	90
13) Acrolein	2.011	56	42535	158.748	ug/l	99
14) Allyl chloride	2.359	41	613293	45.110	ug/l	96
15) Acrylonitrile	2.670	53	1136973	229.692	ug/l	99
16) Acetone	2.117	43	1174504	261.128	ug/l	97
17) Carbon Disulfide	2.252	76	966224	41.510	ug/l	100
18) Methyl Acetate	2.378	43	577040	53.306	ug/l	97
19) Methyl tert-butyl Ether	2.709	73	1228261	50.644	ug/l	99
20) Methylene Chloride	2.455	84	425236	54.174	ug/l	94
21) trans-1,2-Dichloroethene	2.699	96	391729	48.346	ug/l	94
22) Diisopropyl ether	3.214	45	1227079	47.173	ug/l	98
23) Vinyl Acetate	3.185	43	5161912	226.848	ug/l	97
24) 1,1-Dichloroethane	3.117	63	742092	46.651	ug/l	98
25) 2-Butanone	3.860	43	1375343	235.085	ug/l	96
26) 2,2-Dichloropropane	3.809	77	617550	43.784	ug/l	98
27) cis-1,2-Dichloroethene	3.818	96	429074	48.015	ug/l	96
28) Bromochloromethane	4.143	49	350614	49.928	ug/l	90
29) Tetrahydrofuran	4.230	42	862839	235.626	ug/l	97
30) Chloroform	4.275	83	778110	46.845	ug/l	97
31) Cyclohexane	4.580	56	534129	40.990	ug/l	99
32) 1,1,1-Trichloroethane	4.510	97	669151	46.532	ug/l	98
36) 1,1-Dichloropropene	4.741	75	477305	54.703	ug/l	98
37) Ethyl Acetate	3.969	43	518087	48.933	ug/l	97
38) Carbon Tetrachloride	4.731	117	585594	54.914	ug/l	99
39) Methylcyclohexane	6.047	83	540367	51.283	ug/l	99
40) Benzene	5.008	78	1548631	54.504	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.156	41	240482	50.227	ug/l		97
42) 1,2-Dichloroethane	5.037	62	529233	53.160	ug/l		99
43) Isopropyl Acetate	5.188	43	783601	54.281	ug/l		98
44) Trichloroethene	5.828	130	380227	57.993	ug/l		98
45) 1,2-Dichloropropane	6.085	63	399651	56.590	ug/l		98
46) Dibromomethane	6.223	93	300983	55.683	ug/l		93
47) Bromodichloromethane	6.423	83	624205	55.859	ug/l		98
48) Methyl methacrylate	6.294	41	359934	55.003	ug/l		95
49) 1,4-Dioxane	6.288	88	108875	1030.978	ug/l		99
51) 4-Methyl-2-Pentanone	7.146	43	2763632	290.997	ug/l		97
52) Toluene	7.307	92	997722	60.564	ug/l		98
53) t-1,3-Dichloropropene	7.571	75	581937	59.756	ug/l		99
54) cis-1,3-Dichloropropene	6.944	75	639668	59.500	ug/l		97
55) 1,1,2-Trichloroethane	7.757	97	428052	57.949	ug/l		98
56) Ethyl methacrylate	7.712	69	556268	63.413	ug/l		94
57) 1,3-Dichloropropane	7.931	76	675609	57.955	ug/l		99
58) 2-Chloroethyl Vinyl ether	6.809	63	1190479	240.718	ug/l		97
59) 2-Hexanone	8.059	43	2076495	270.676	ug/l		97
60) Dibromochloromethane	8.165	129	501215	59.550	ug/l		98
61) 1,2-Dibromoethane	8.272	107	445928	59.030	ug/l		98
64) Tetrachloroethene	7.895	164	339185	56.385	ug/l		96
65) Chlorobenzene	8.802	112	1110690	55.521	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.895	131	418344	57.876	ug/l		100
67) Ethyl Benzene	8.934	91	1817939	60.034	ug/l		99
68) m/p-Xylenes	9.059	106	1508955	129.107	ug/l		98
69) o-Xylene	9.468	106	665107	64.270	ug/l		97
70) Styrene	9.484	104	1271498	57.814	ug/l		98
71) Bromoform	9.651	173	351628	62.277	ug/l	#	98
73) Isopropylbenzene	9.853	105	1831320	53.992	ug/l		99
74) N-amyl acetate	9.722	43	723655	53.488	ug/l		96
75) 1,1,2,2-Tetrachloroethane	10.165	83	688542	46.331	ug/l		100
76) 1,2,3-Trichloropropane	10.194	75	492632	46.268	ug/l		99
77) Bromobenzene	10.140	156	468225	53.208	ug/l		95
78) n-propylbenzene	10.275	91	2234110	54.089	ug/l		98
79) 2-Chlorotoluene	10.345	91	1348583	54.565	ug/l		99
80) 1,3,5-Trimethylbenzene	10.461	105	1593104	56.508	ug/l		100
81) trans-1,4-Dichloro-2-b...	9.927	75	232306	52.378	ug/l		96
82) 4-Chlorotoluene	10.461	91	1616280	56.397	ug/l		99
83) tert-Butylbenzene	10.789	119	1488535	52.950	ug/l		98
84) 1,2,4-Trimethylbenzene	10.837	105	1600180	58.464	ug/l		99
85) sec-Butylbenzene	11.011	105	1923460	51.585	ug/l		99
86) p-Isopropyltoluene	11.165	119	1652409	53.245	ug/l		100
87) 1,3-Dichlorobenzene	11.104	146	934365	52.464	ug/l		100
88) 1,4-Dichlorobenzene	11.194	146	980583	50.185	ug/l		99
89) n-Butylbenzene	11.577	91	1558810	52.593	ug/l		99
90) Hexachloroethane	11.818	117	339116	44.374	ug/l		97
91) 1,2-Dichlorobenzene	11.564	146	865428	52.011	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.349	75	134431	50.268	ug/l		92
93) 1,2,4-Trichlorobenzene	13.185	180	511938	53.672	ug/l		98
94) Hexachlorobutadiene	13.368	225	219349	44.258	ug/l		99
95) Naphthalene	13.422	128	1812807	58.802	ug/l		100
96) 1,2,3-Trichlorobenzene	13.664	180	536779	55.024	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

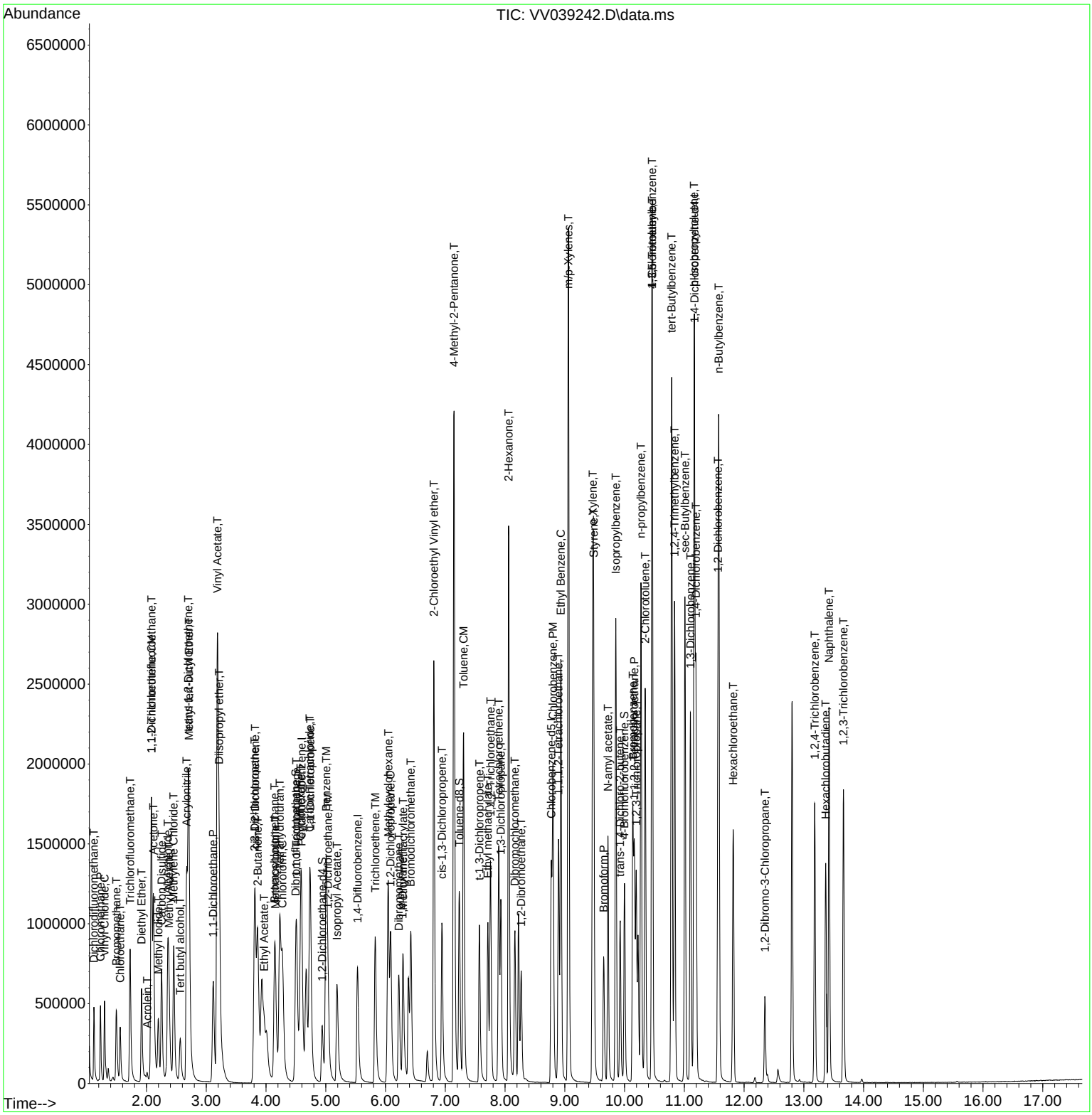
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

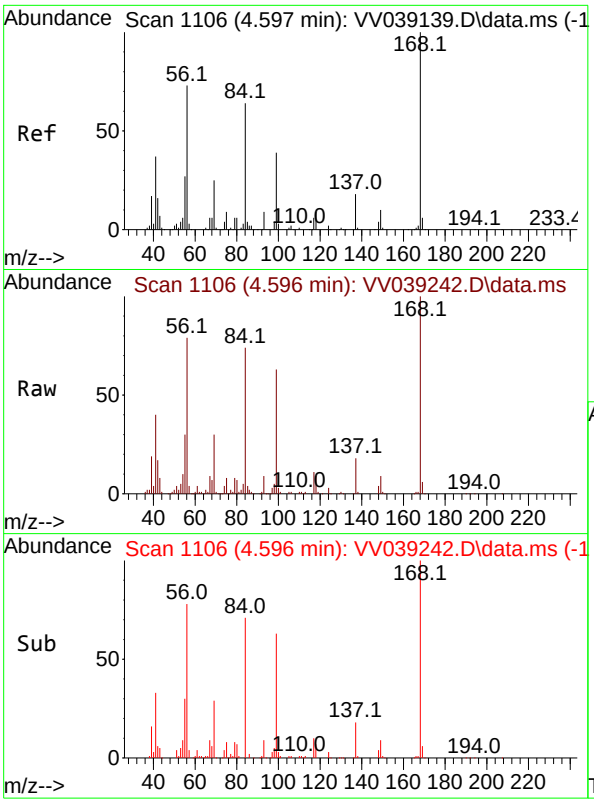
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



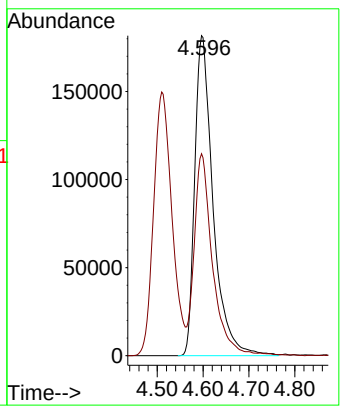


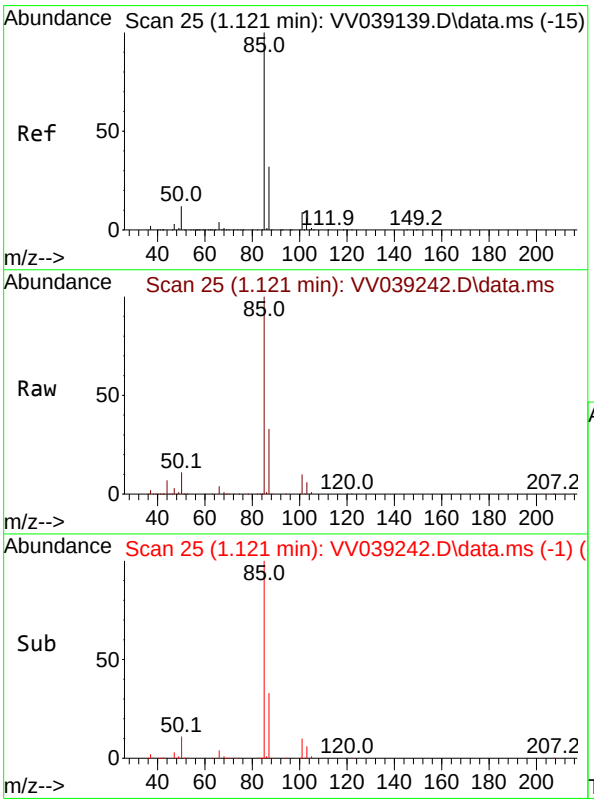
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 504801

Ion	Ratio	Lower	Upper
168	100		
99	62.8	49.6	74.4

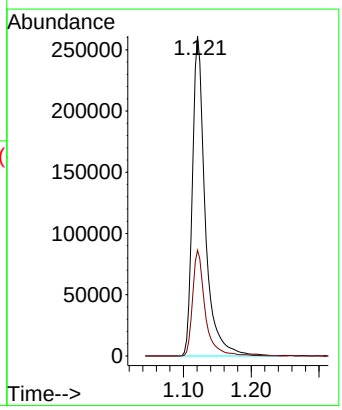


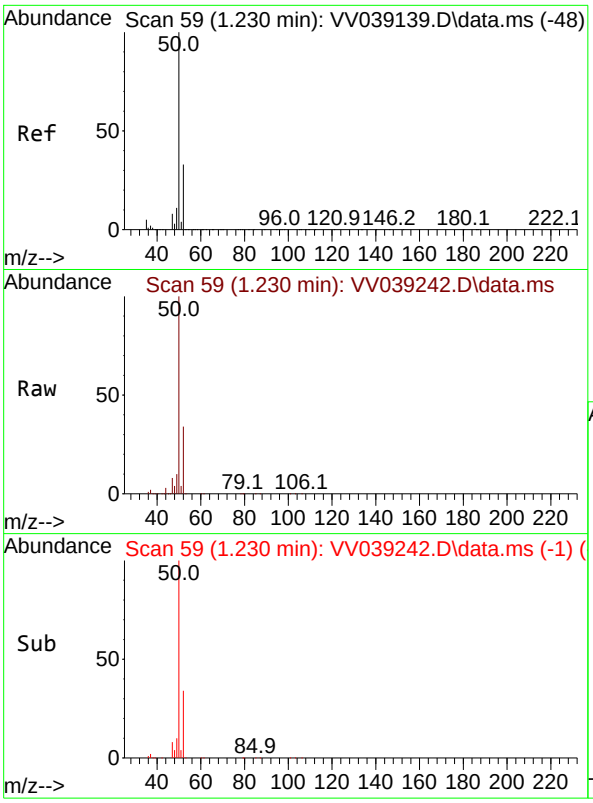


#2
Dichlorodifluoromethane
Concen: 42.846 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 85 Resp: 342379

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.0	47.9



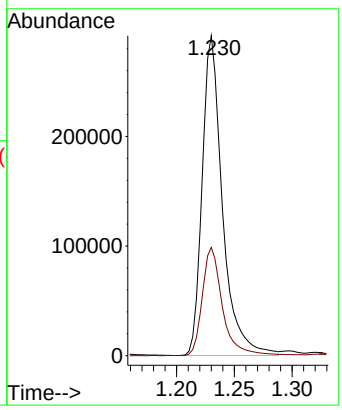


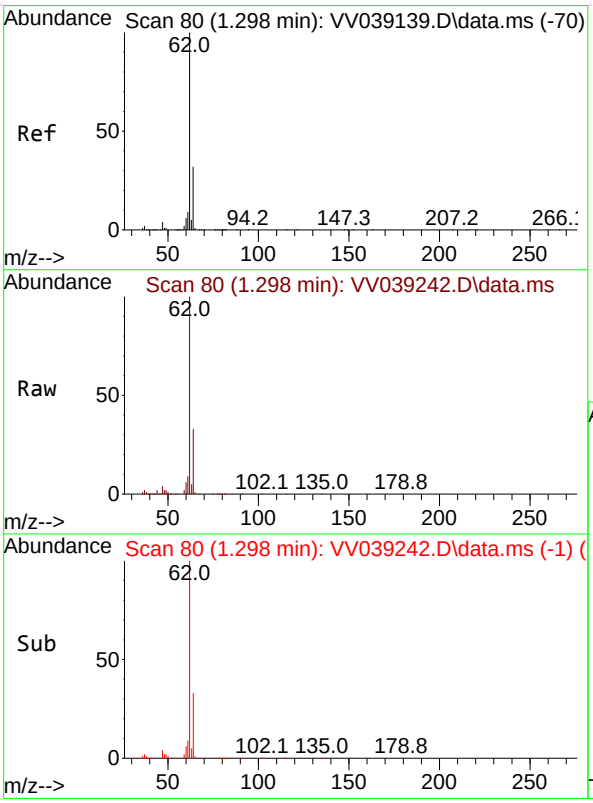
#3
Chloromethane
Concen: 41.489 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 355916

Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.0	39.0

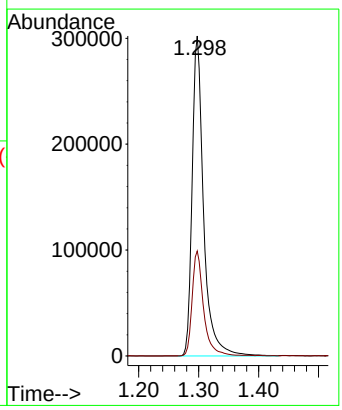


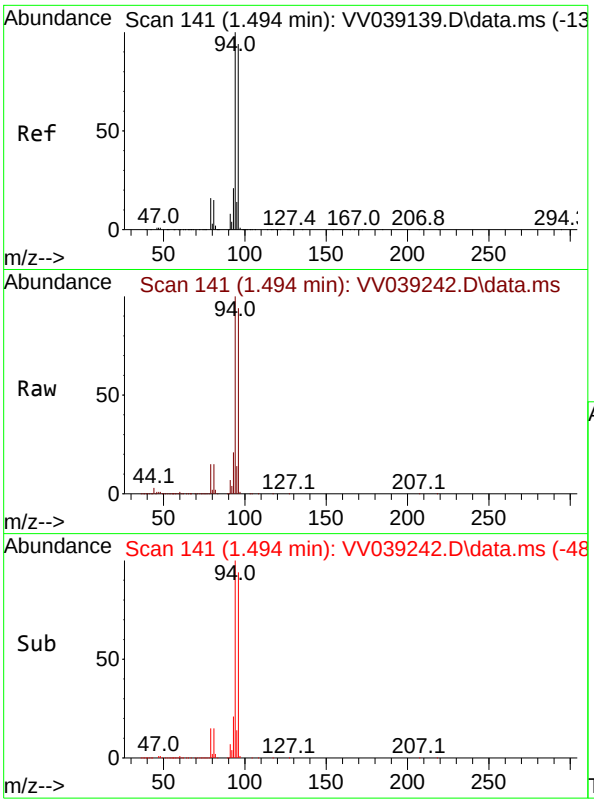


#4
Vinyl Chloride
Concen: 43.819 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 62 Resp: 402428

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.6	38.4



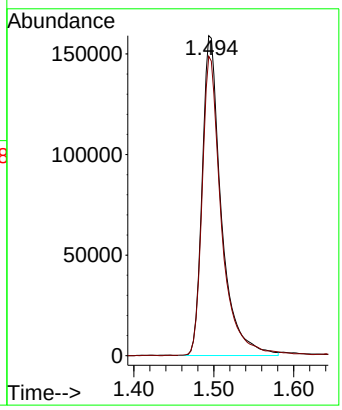


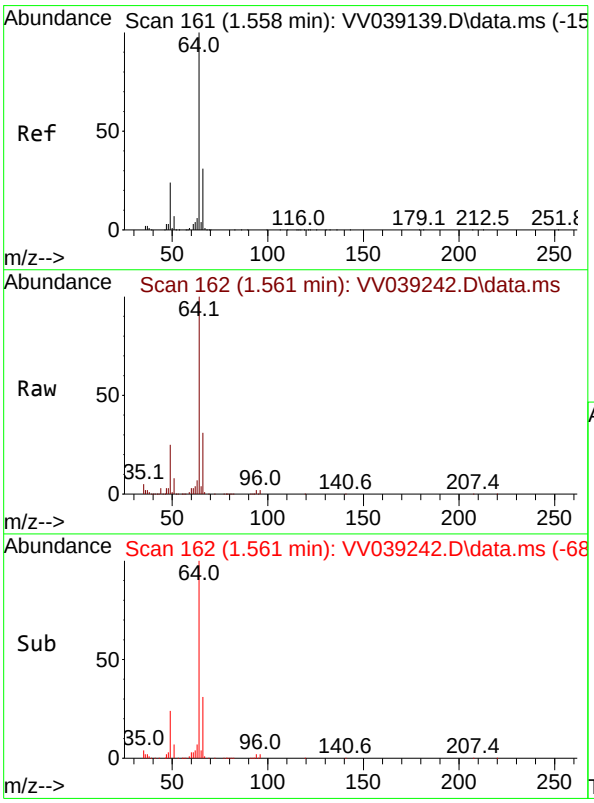
#5
Bromomethane
Concen: 45.671 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 264412

Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.9	112.3

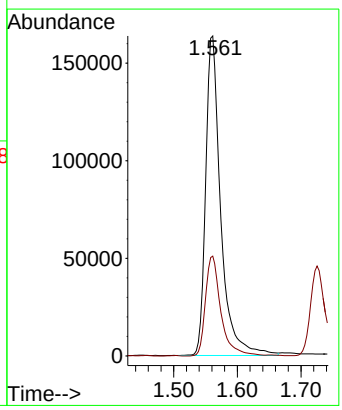


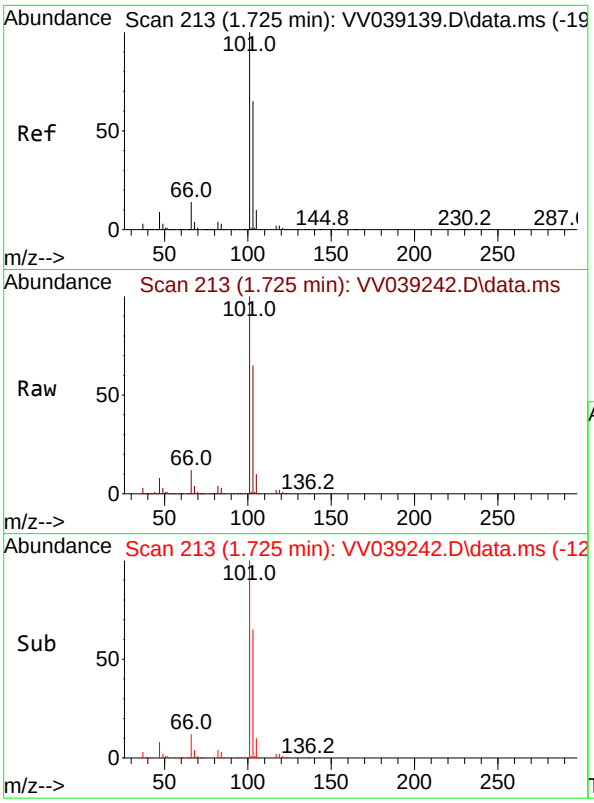


#6
Chloroethane
Concen: 49.756 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 64 Resp: 269107

Ion	Ratio	Lower	Upper
64	100		
66	31.1	24.6	36.8



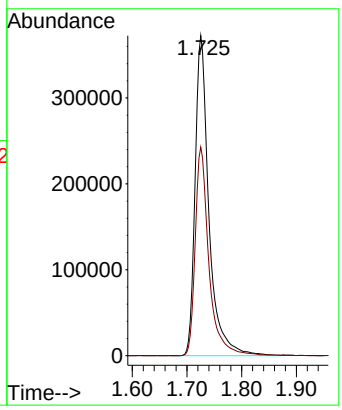


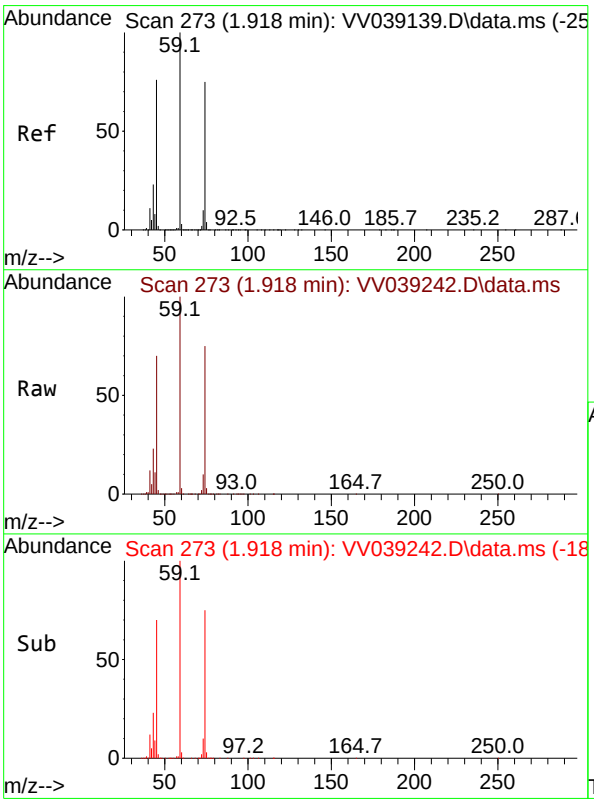
#7
Trichlorofluoromethane
Concen: 49.210 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 654327

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.0	78.0

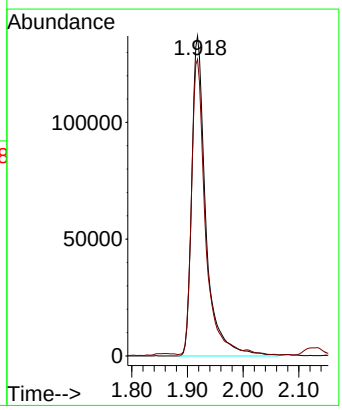


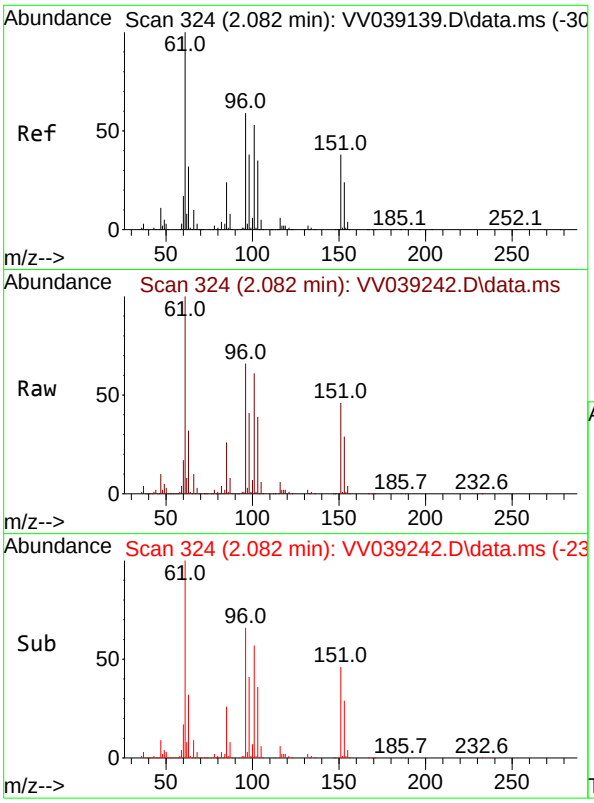


#8
Diethyl Ether
Concen: 48.601 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 74 Resp: 239899

Ion	Ratio	Lower	Upper
74	100		
45	90.0	49.6	148.8



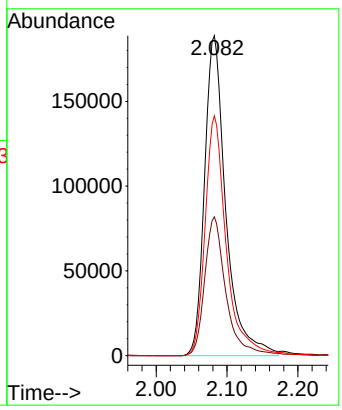


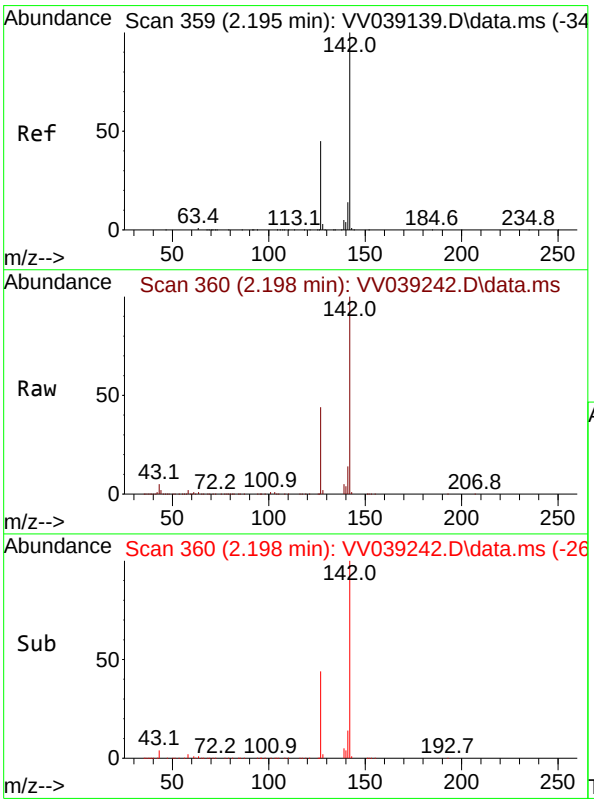
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.765 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 393714

Ion	Ratio	Lower	Upper
101	100		
85	43.7	36.2	54.2
151	74.9	56.3	84.5

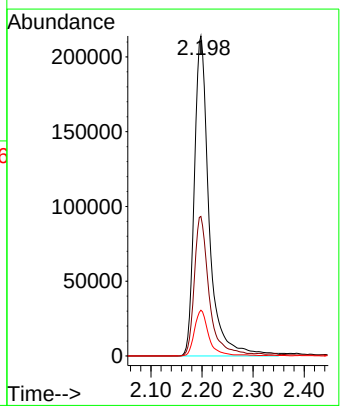


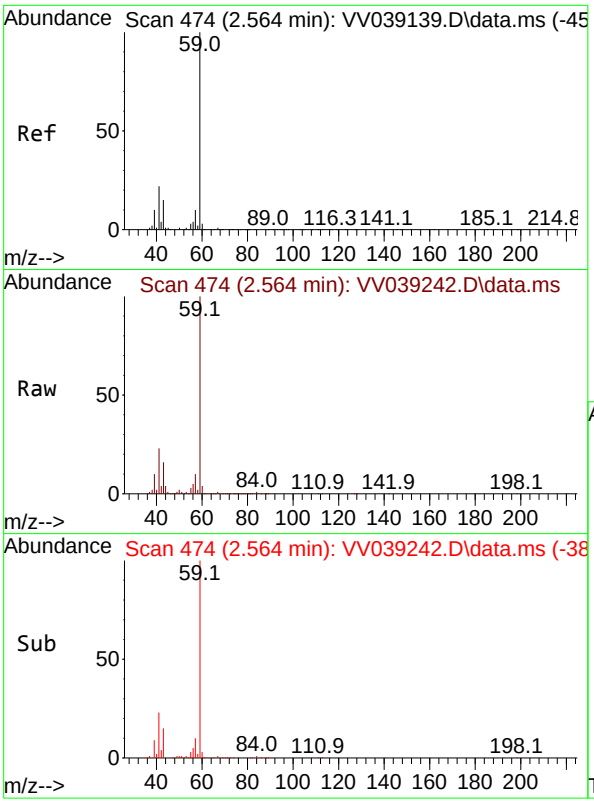


#10
Methyl Iodide
Concen: 57.201 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:142 Resp: 430956

Ion	Ratio	Lower	Upper
142	100		
127	44.1	36.3	54.5
141	13.8	11.2	16.8



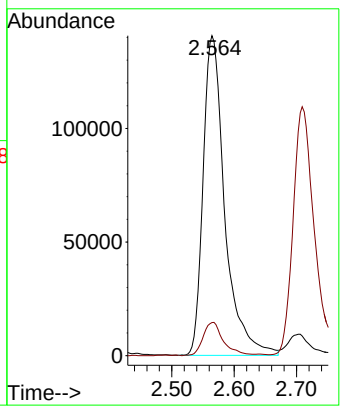


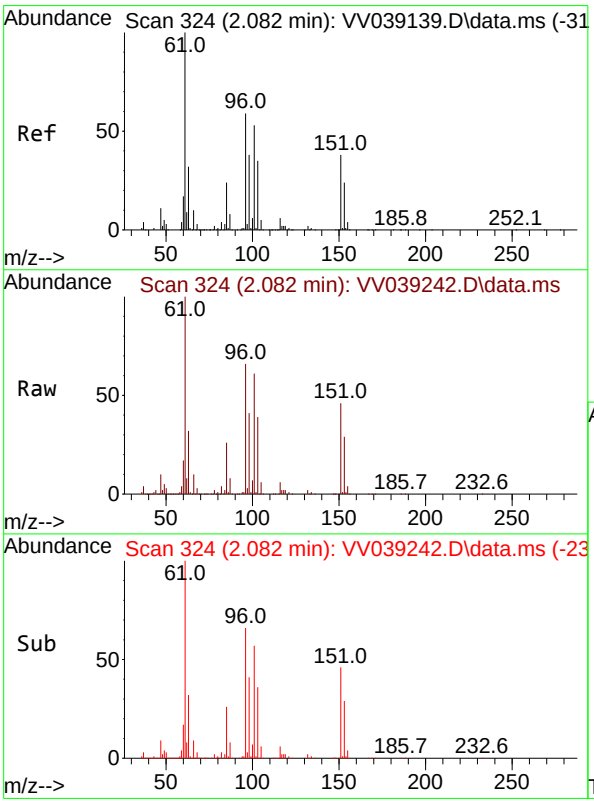
#11
Tert butyl alcohol
Concen: 220.472 ug/l
RT: 2.564 min Scan# 4
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 340440

Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.8	11.8

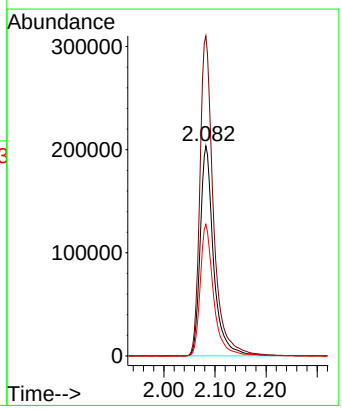


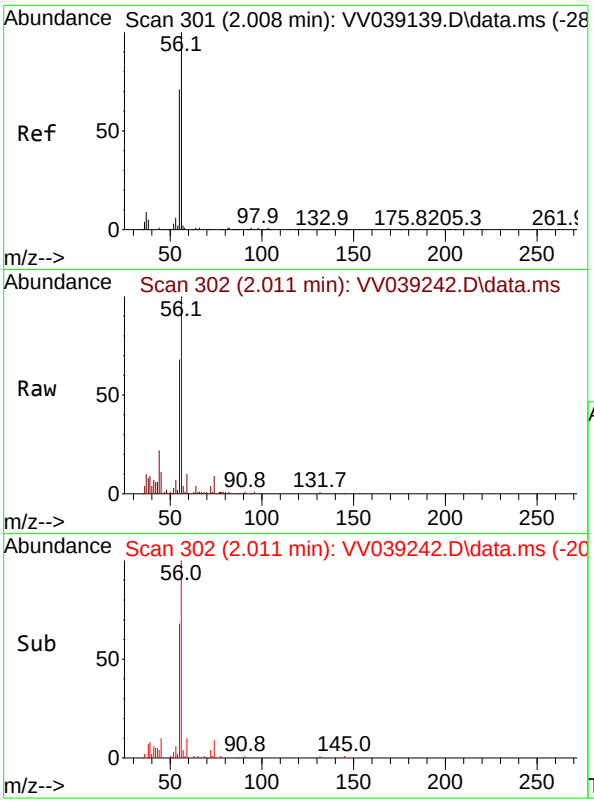


#12
1,1-Dichloroethene
Concen: 48.853 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 96 Resp: 371821

Ion	Ratio	Lower	Upper
96	100		
61	152.4	136.0	204.0
98	62.7	51.0	76.6



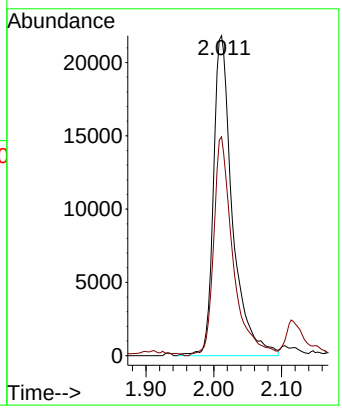


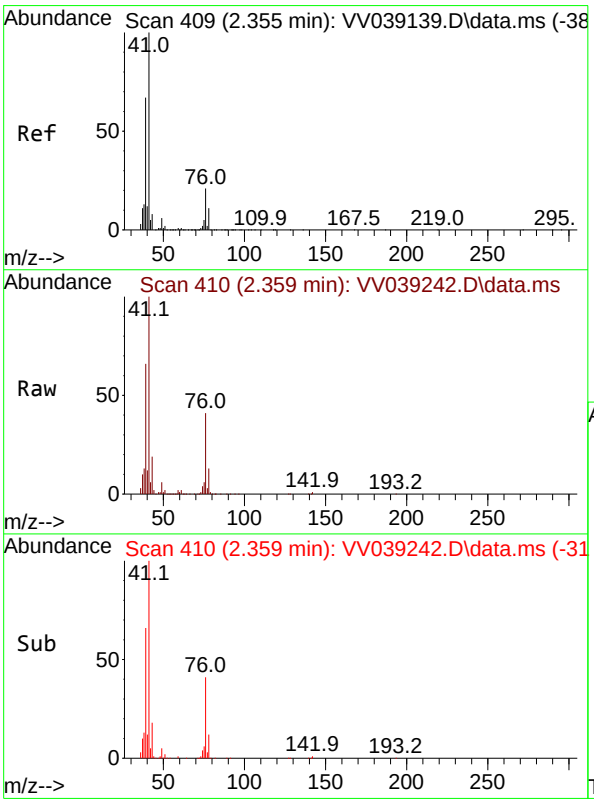
#13
Acrolein
Concen: 158.748 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 42535

Ion	Ratio	Lower	Upper
56	100		
55	69.2	56.2	84.4

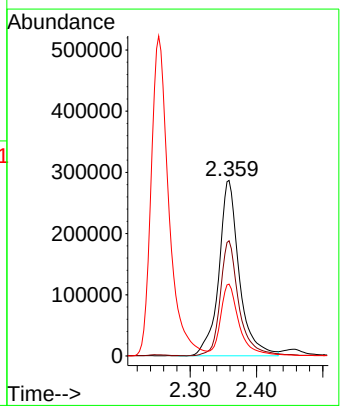


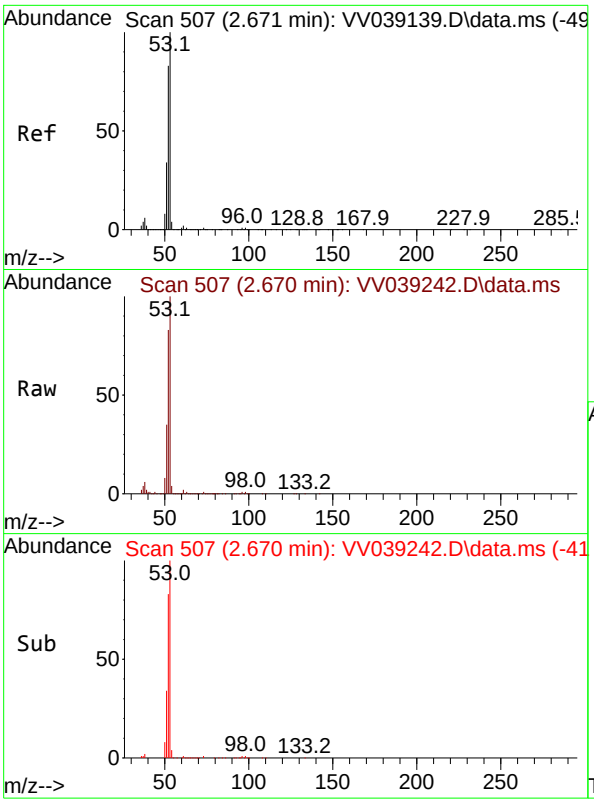


#14
Allyl chloride
Concen: 45.110 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 41 Resp: 613293

Ion	Ratio	Lower	Upper
41	100		
39	60.3	51.0	76.6
76	37.7	28.2	42.4



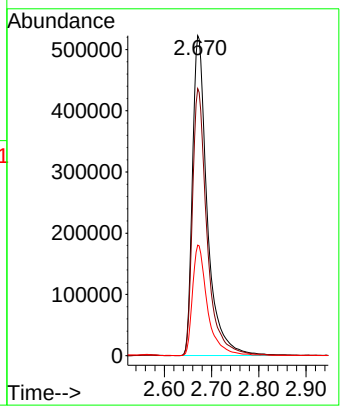


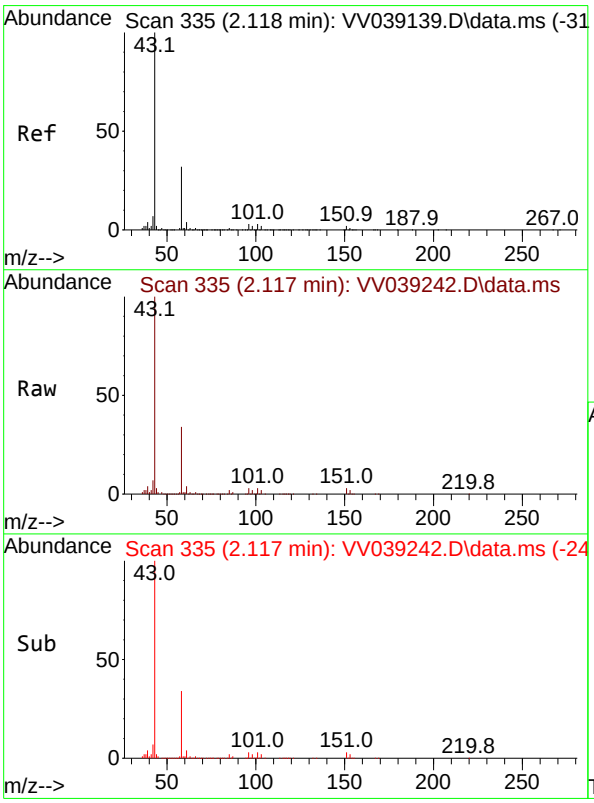
#15
Acrylonitrile
Concen: 229.692 ug/l
RT: 2.670 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 1136973

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	35.0	28.5	42.7

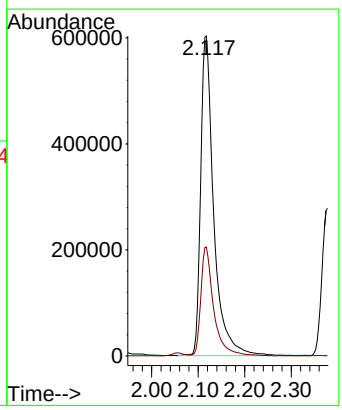


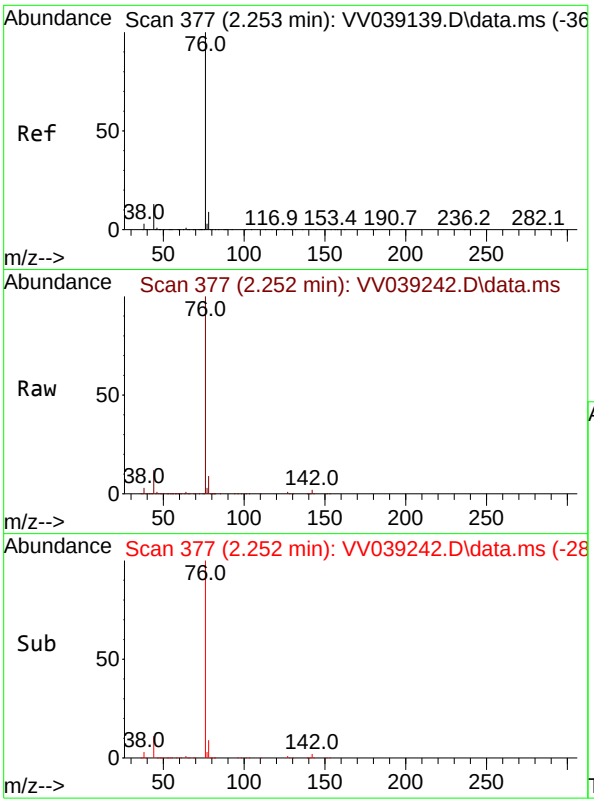


#16
Acetone
Concen: 261.128 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 43 Resp: 1174504

Ion	Ratio	Lower	Upper
43	100		
58	34.0	25.8	38.6



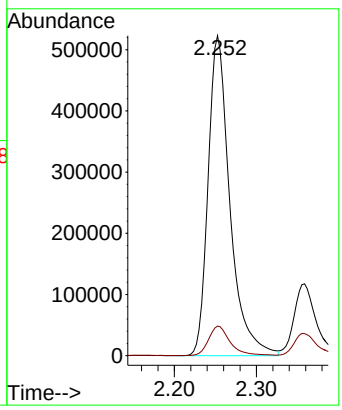


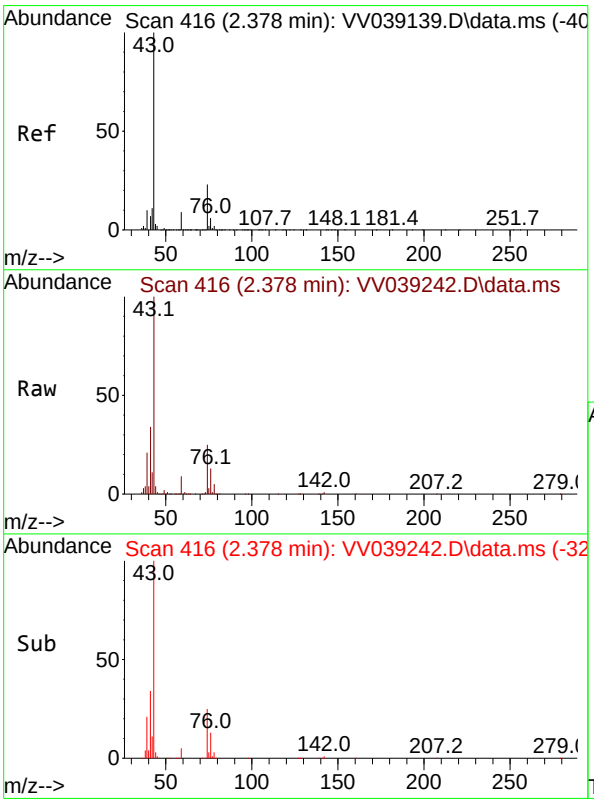
#17
Carbon Disulfide
Concen: 41.510 ug/l
RT: 2.252 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 966224

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.0

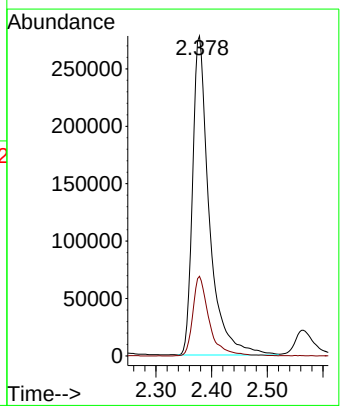


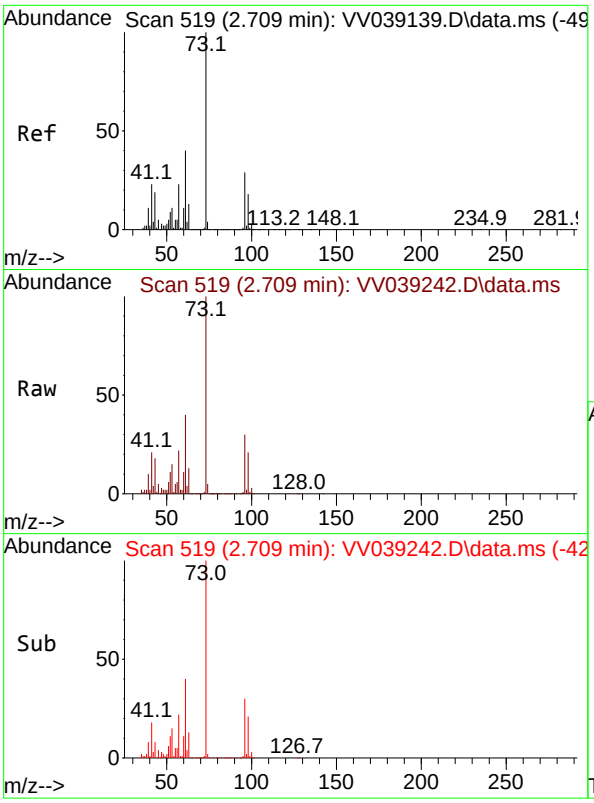


#18
Methyl Acetate
Concen: 53.306 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 43 Resp: 577040

Ion	Ratio	Lower	Upper
43	100		
74	24.5	18.6	27.8



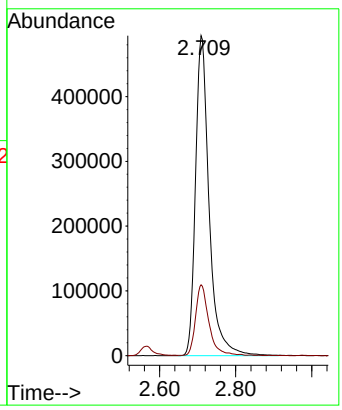


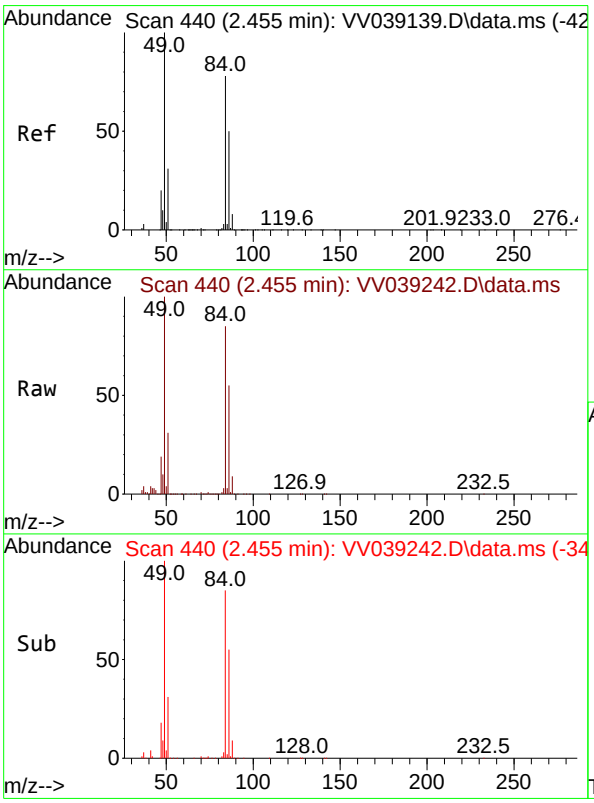
#19
Methyl tert-butyl Ether
Concen: 50.644 ug/l
RT: 2.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 1228261

Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.2	27.4

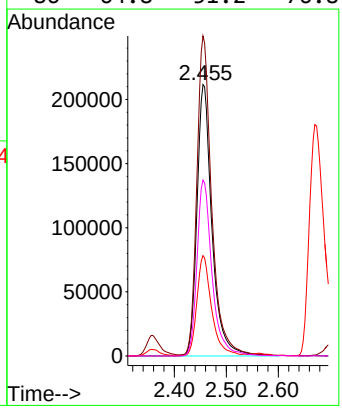


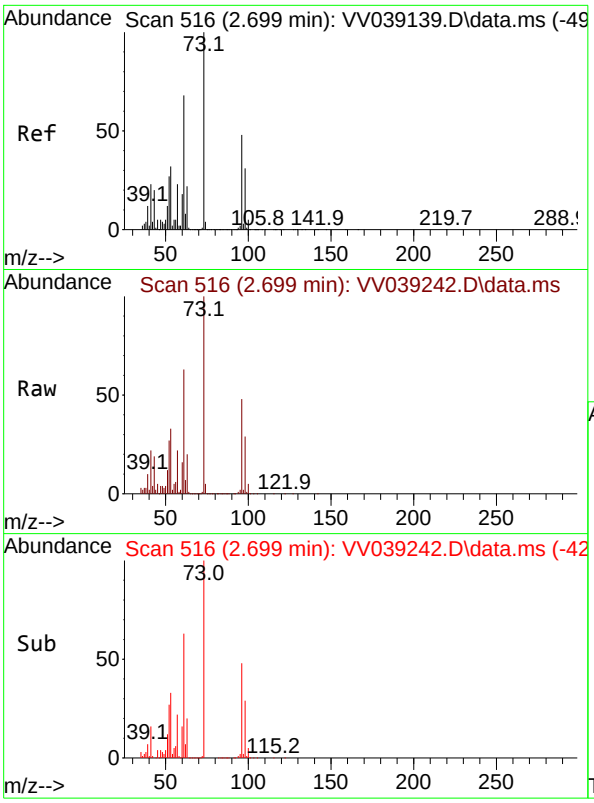


#20
Methylene Chloride
Concen: 54.174 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 84 Resp: 425236

Ion	Ratio	Lower	Upper
84	100		
49	117.7	102.8	154.2
51	36.8	31.9	47.9
86	64.8	51.2	76.8



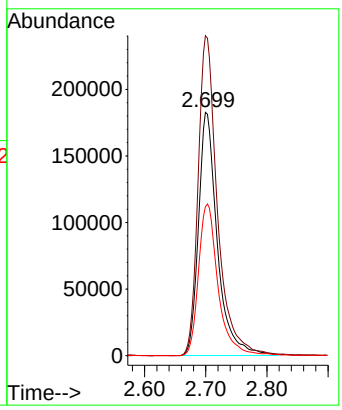


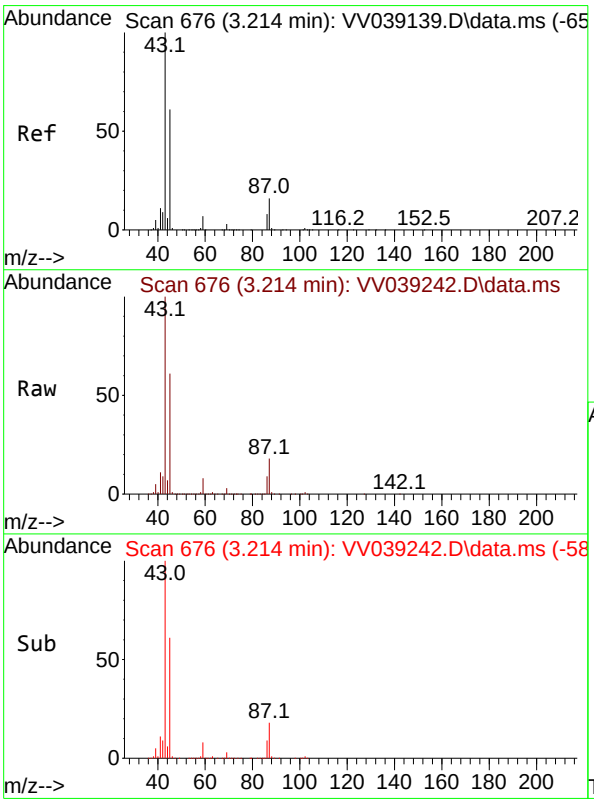
#21
trans-1,2-Dichloroethene
Concen: 48.346 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 391729

Ion	Ratio	Lower	Upper
96	100		
61	131.6	112.8	169.2
98	61.2	51.1	76.7

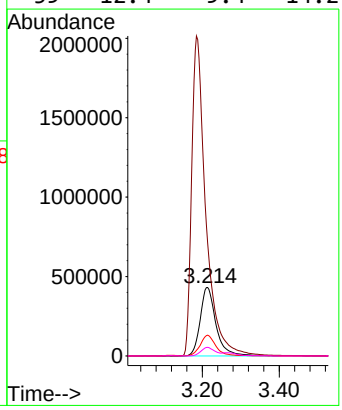


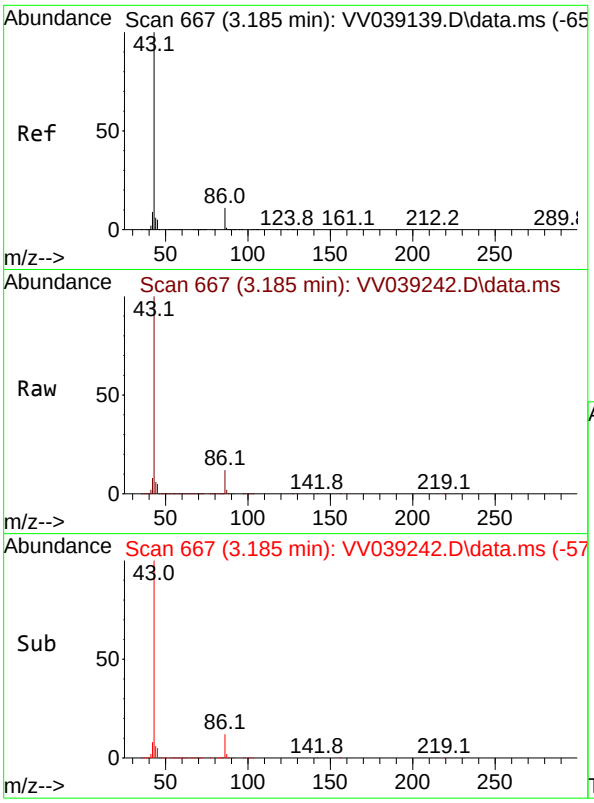


#22
Diisopropyl ether
Concen: 47.173 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 45 Resp: 1227079

Ion	Ratio	Lower	Upper
45	100		
43	165.0	130.9	196.3
87	30.3	21.1	31.7
59	12.4	9.4	14.2



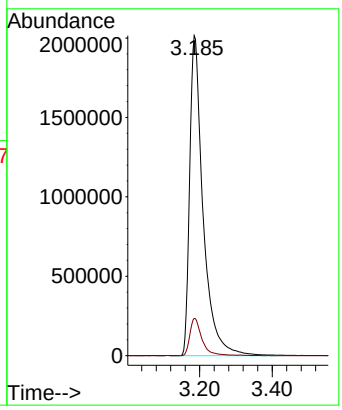


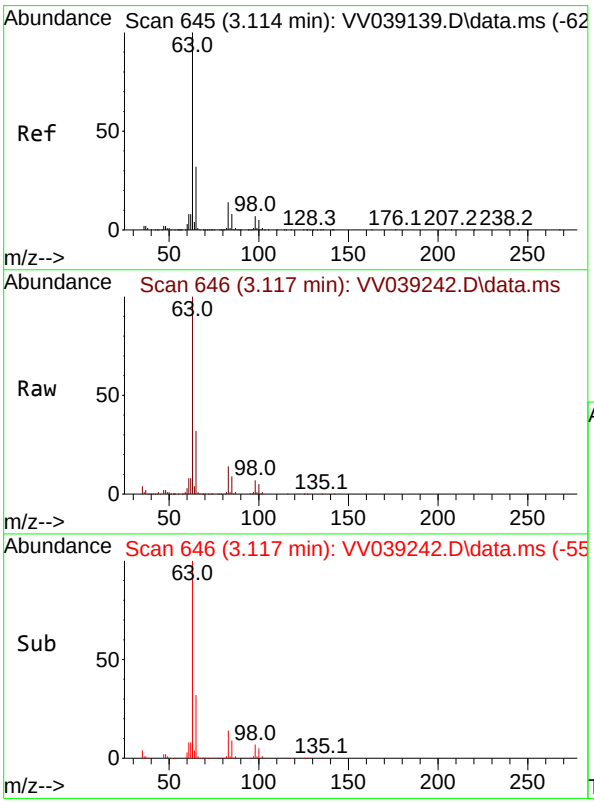
#23
Vinyl Acetate
Concen: 226.848 ug/l
RT: 3.185 min Scan# 6
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 5161912

Ion	Ratio	Lower	Upper
43	100		
86	11.7	8.4	12.6

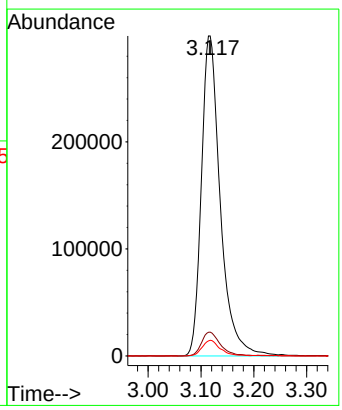


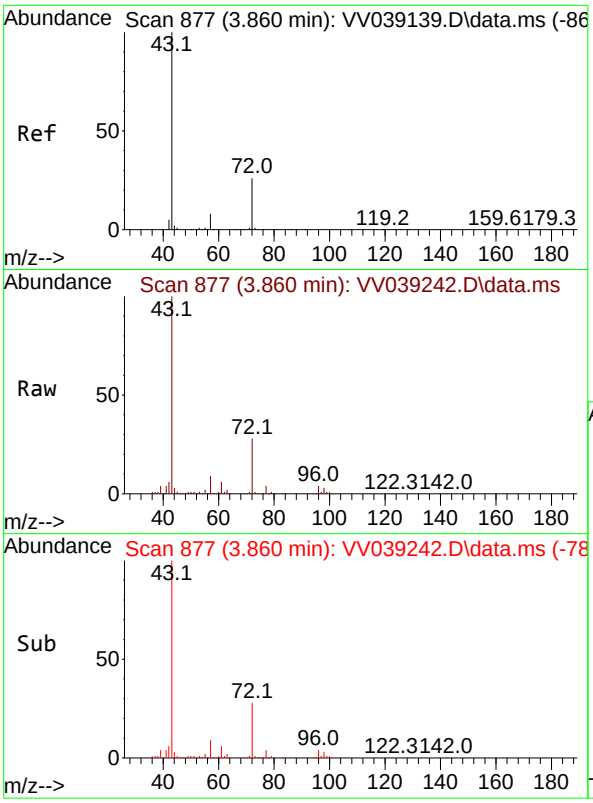


#24
1,1-Dichloroethane
Concen: 46.651 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 63 Resp: 742092

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.4	10.2
100	4.9	2.2	6.6



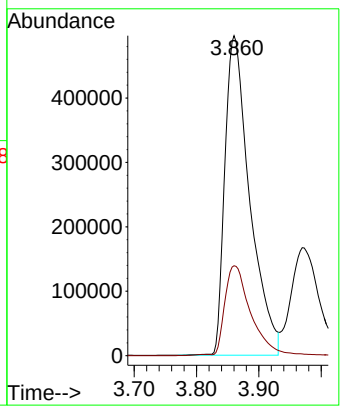


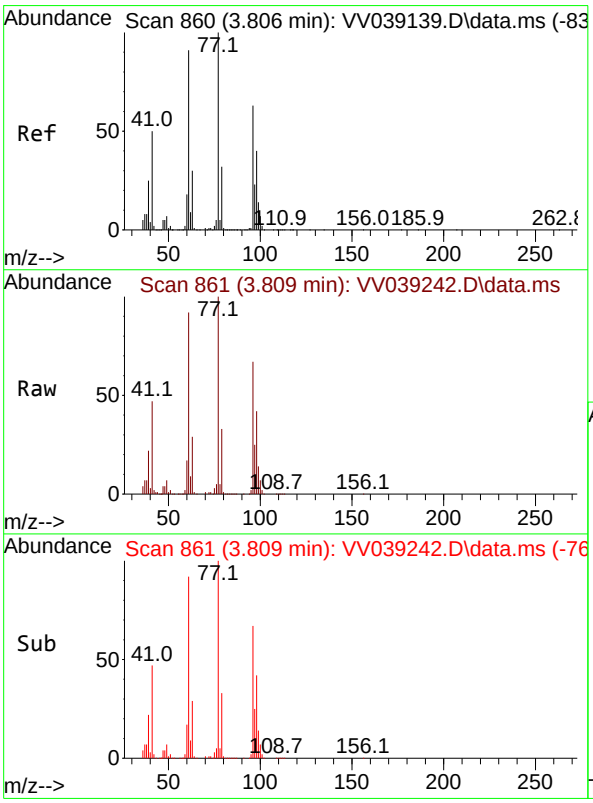
#25
2-Butanone
Concen: 235.085 ug/l
RT: 3.860 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1375343

Ion	Ratio	Lower	Upper
43	100		
72	28.1	21.0	31.6

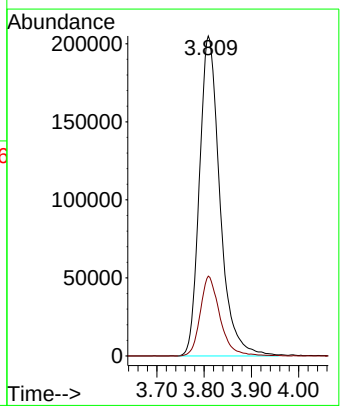


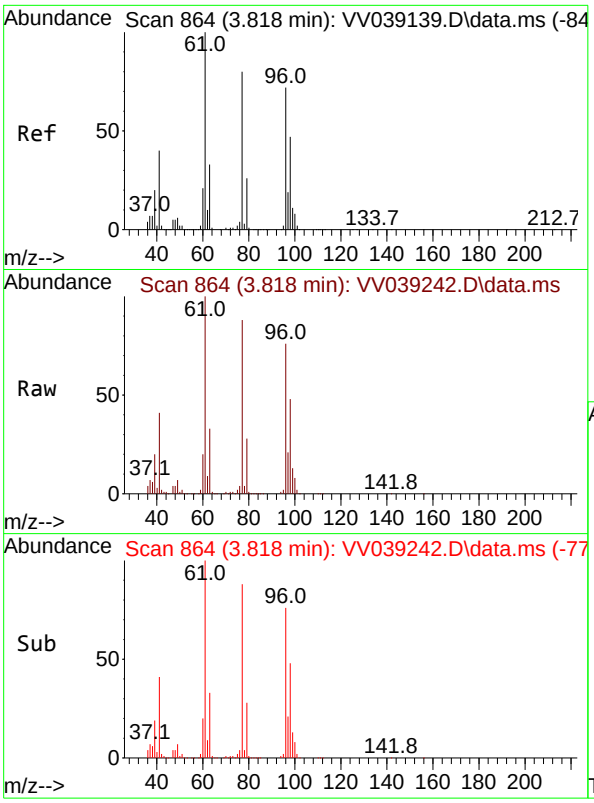


#26
2,2-Dichloropropane
Concen: 43.784 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 77 Resp: 617550

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.6	34.7



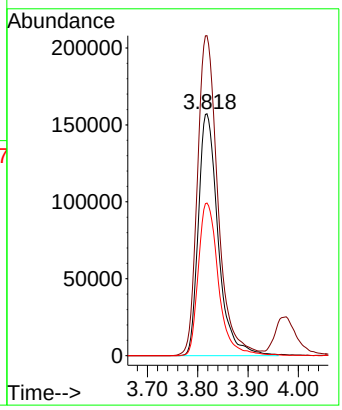


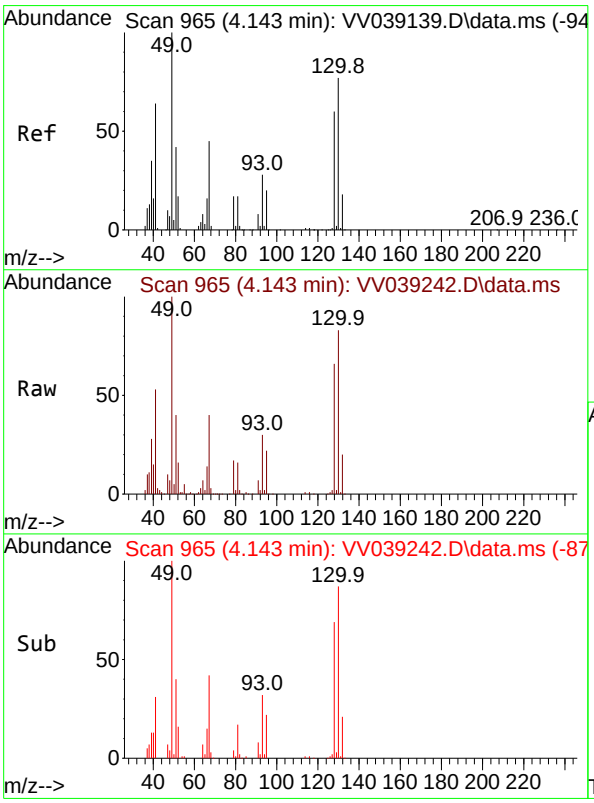
#27
cis-1,2-Dichloroethene
Concen: 48.015 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 429074

Ion	Ratio	Lower	Upper
96	100		
61	137.0	0.0	286.4
98	64.1	0.0	126.6

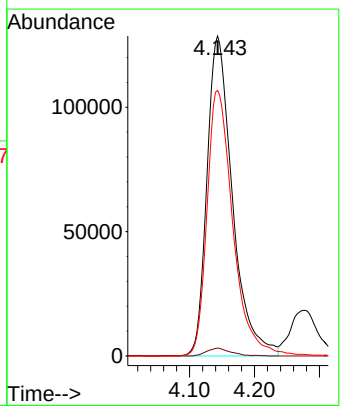


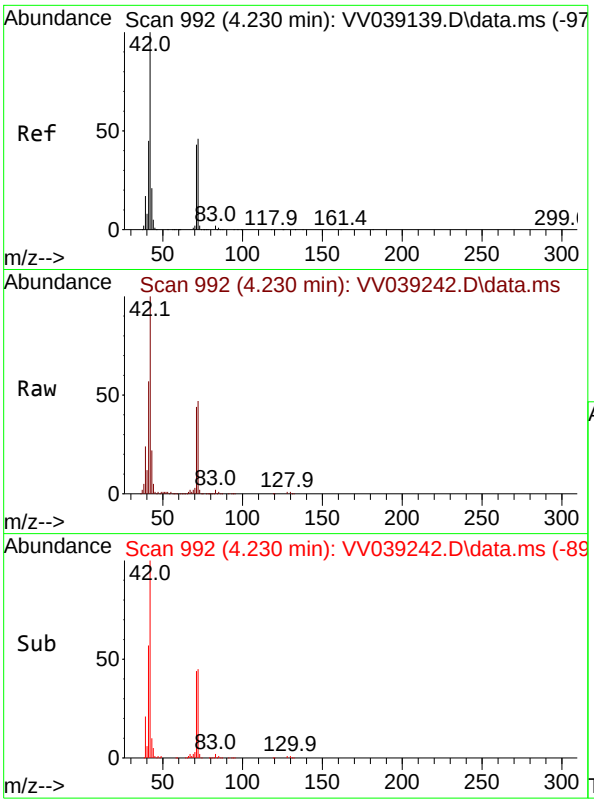


#28
Bromochloromethane
Concen: 49.928 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 49 Resp: 350614

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.2
130	84.3	60.2	90.2



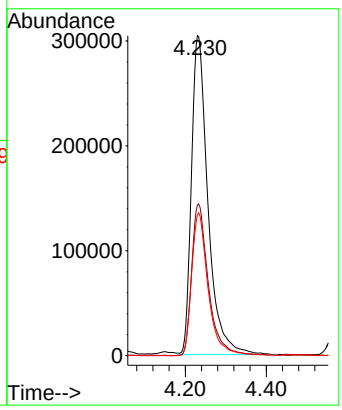


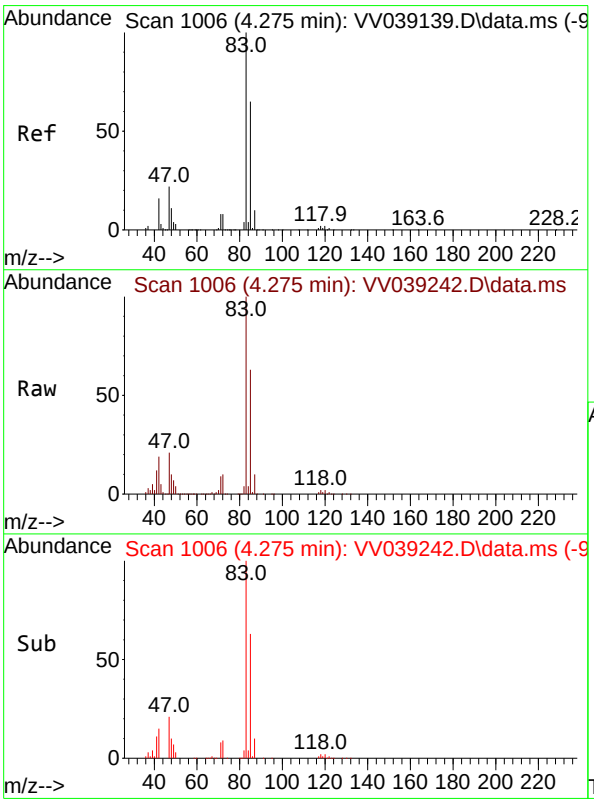
#29
Tetrahydrofuran
Concen: 235.626 ug/l
RT: 4.230 min Scan# 9
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 862839

Ion	Ratio	Lower	Upper
42	100		
72	48.0	36.3	54.5
71	44.4	34.3	51.5

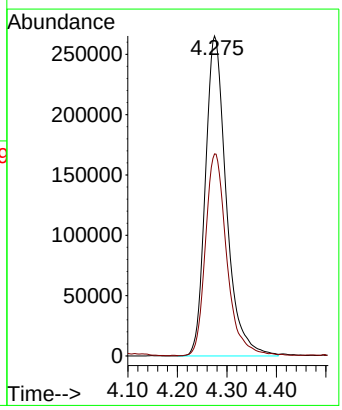


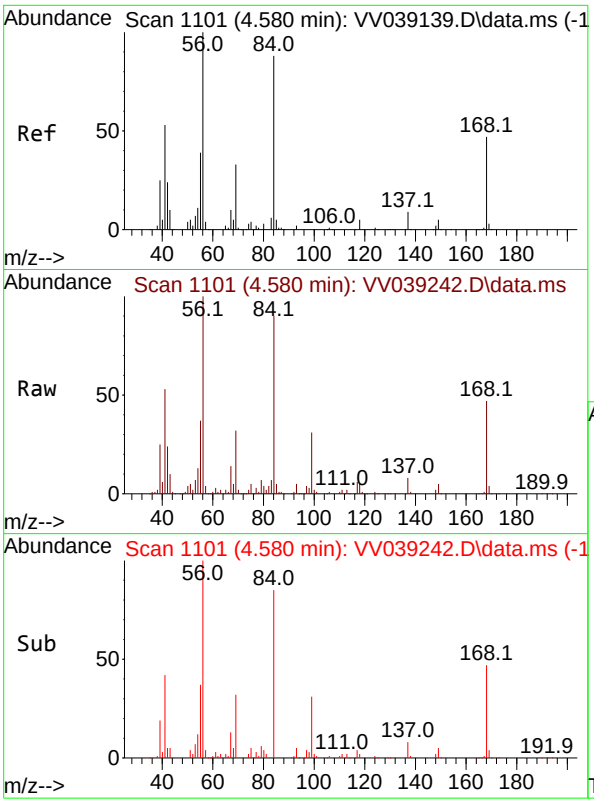


#30
Chloroform
Concen: 46.845 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 83 Resp: 778110

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.1	78.1



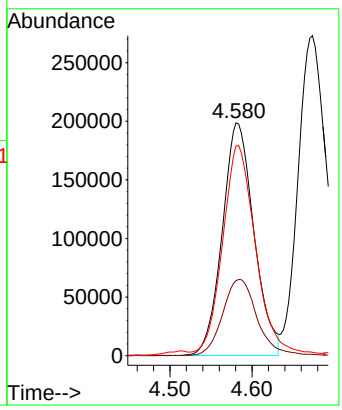


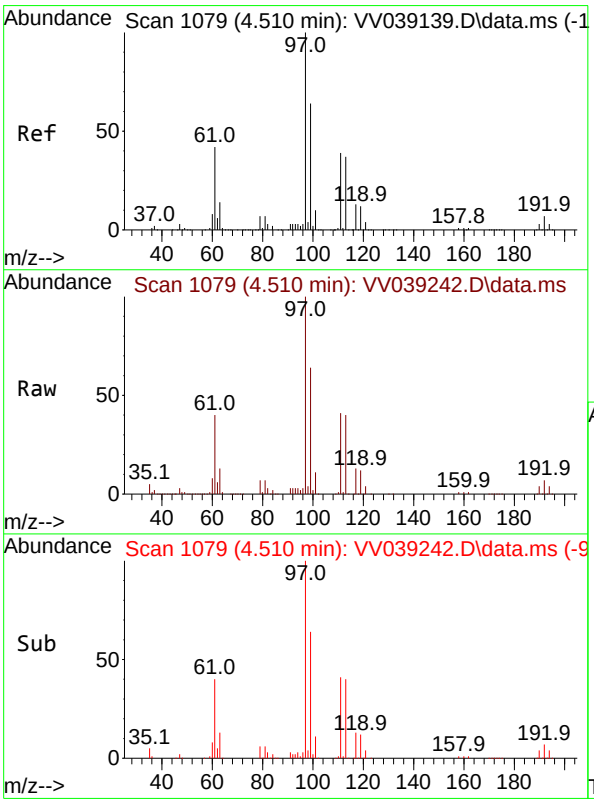
#31
Cyclohexane
Concen: 40.990 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 534129

Ion	Ratio	Lower	Upper
56	100		
69	32.2	26.2	39.2
84	88.3	70.3	105.5

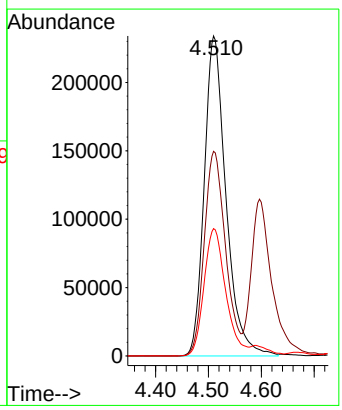


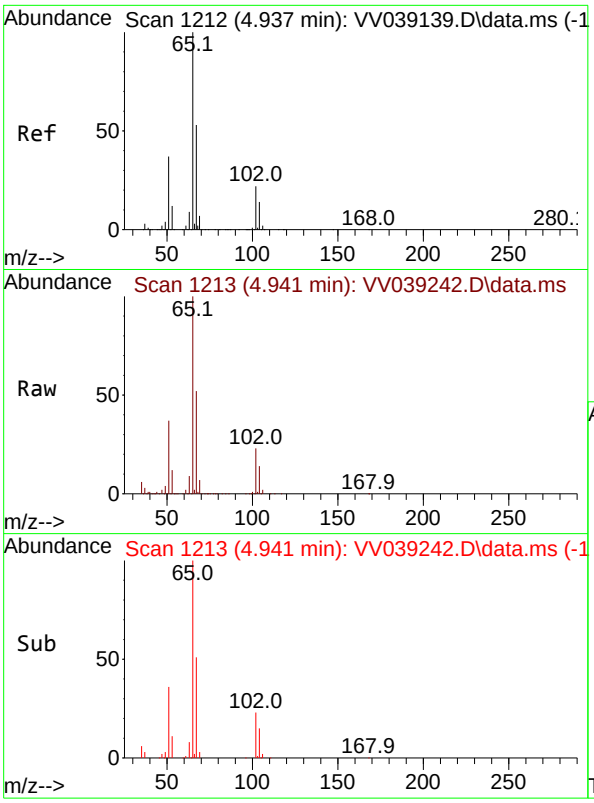


#32
1,1,1-Trichloroethane
Concen: 46.532 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 97 Resp: 669151

Ion	Ratio	Lower	Upper
97	100		
99	62.2	49.6	74.4
61	39.9	34.5	51.7



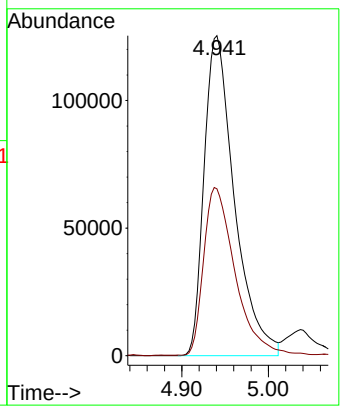


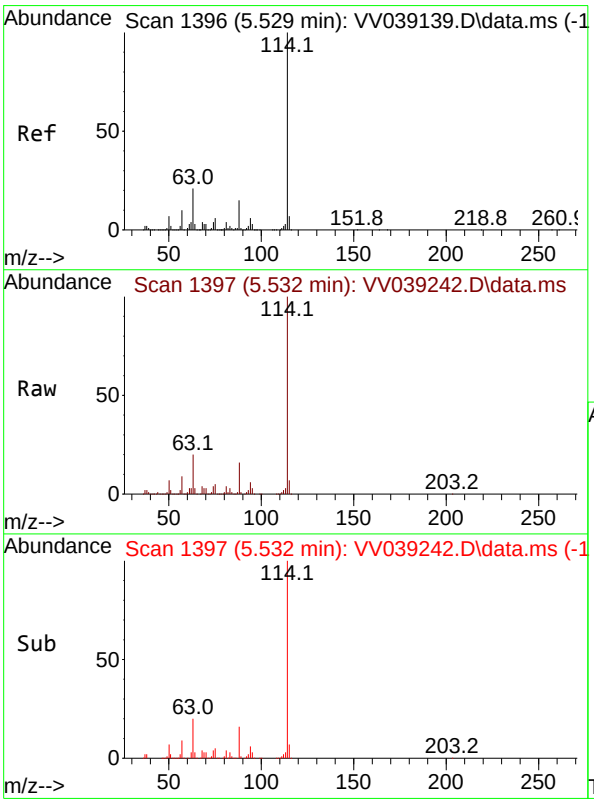
#33
1,2-Dichloroethane-d4
Concen: 41.751 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 305033

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	107.0

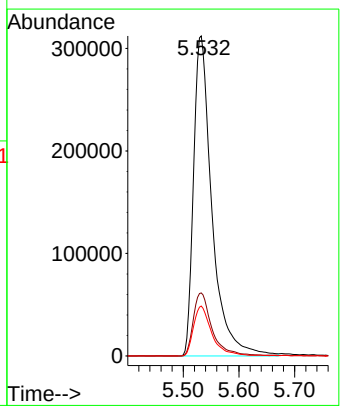


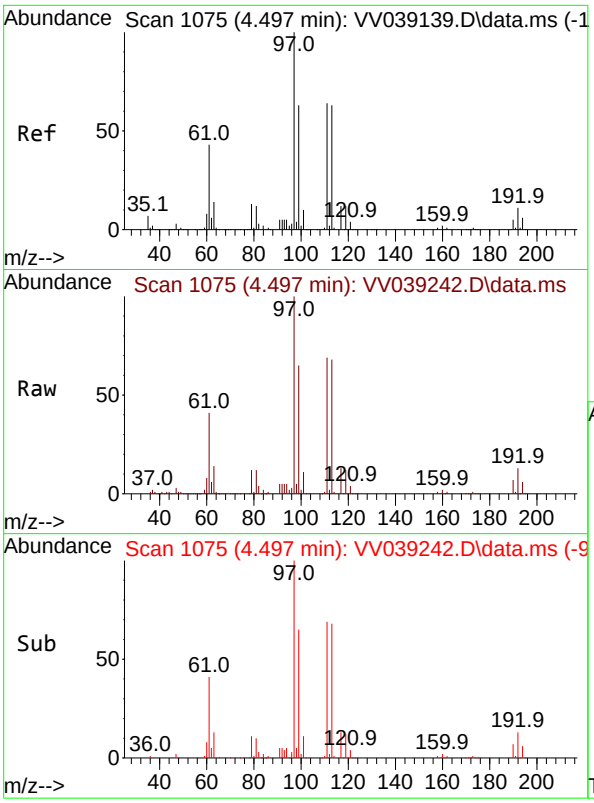


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:114 Resp: 717875

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	42.6
88	15.6	0.0	30.8



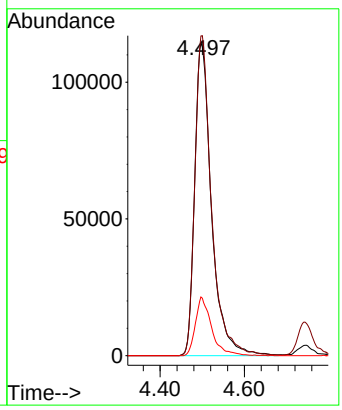


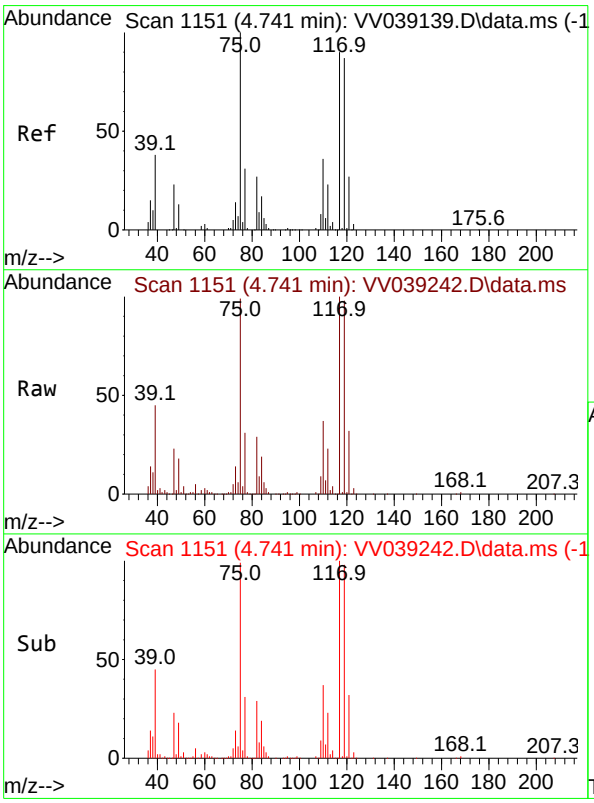
#35
Dibromofluoromethane
Concen: 55.012 ug/l
RT: 4.497 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 317481

Ion	Ratio	Lower	Upper
113	100		
111	100.4	82.4	123.6
192	18.0	13.8	20.8

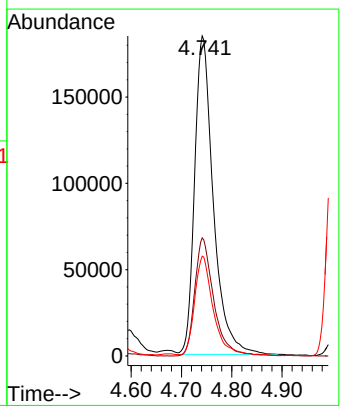


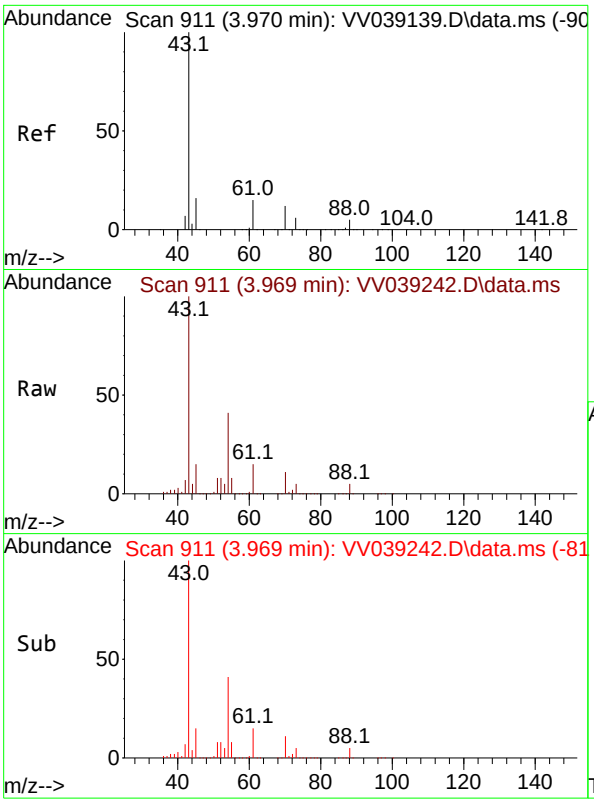


#36
1,1-Dichloropropene
Concen: 54.703 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 75 Resp: 477305

Ion	Ratio	Lower	Upper
75	100		
110	37.1	18.1	54.1
77	30.3	24.8	37.2



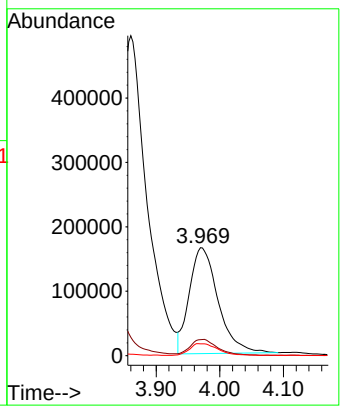


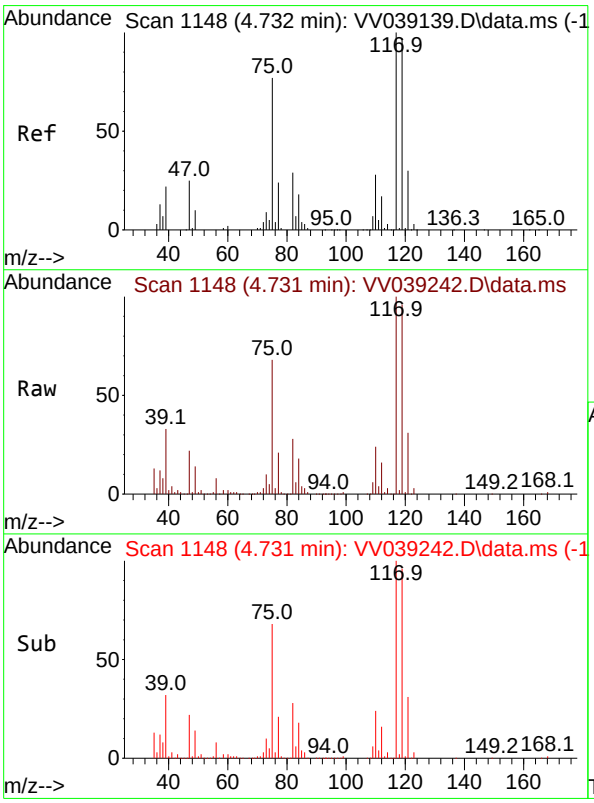
#37
Ethyl Acetate
Concen: 48.933 ug/l
RT: 3.969 min Scan# 91
Delta R.T. -0.001 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 518087

Ion	Ratio	Lower	Upper
43	100		
61	14.5	10.3	15.5
70	10.7	8.0	12.0

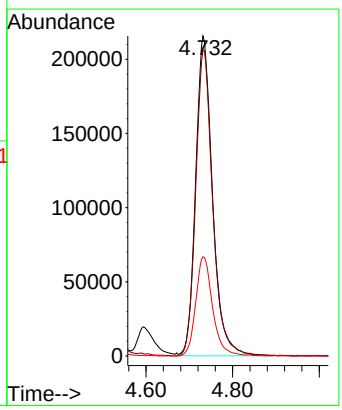


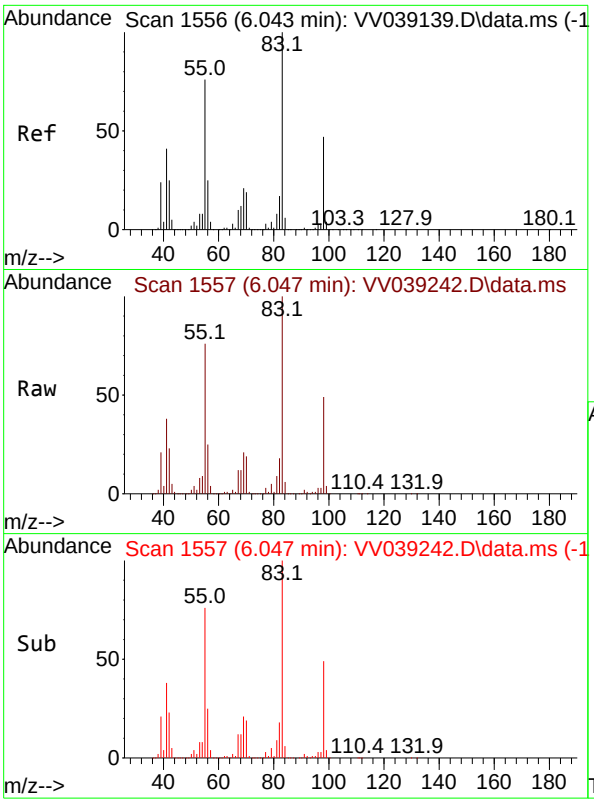


#38
Carbon Tetrachloride
Concen: 54.914 ug/l
RT: 4.731 min Scan# 1148
Delta R.T. -0.001 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:117 Resp: 585594

Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.2	115.8
121	31.0	24.2	36.2



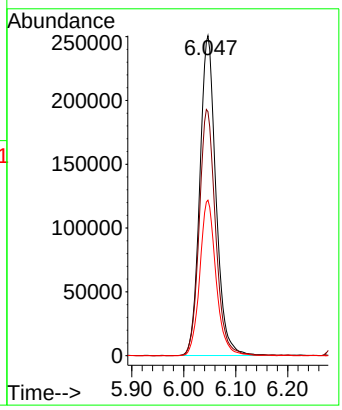


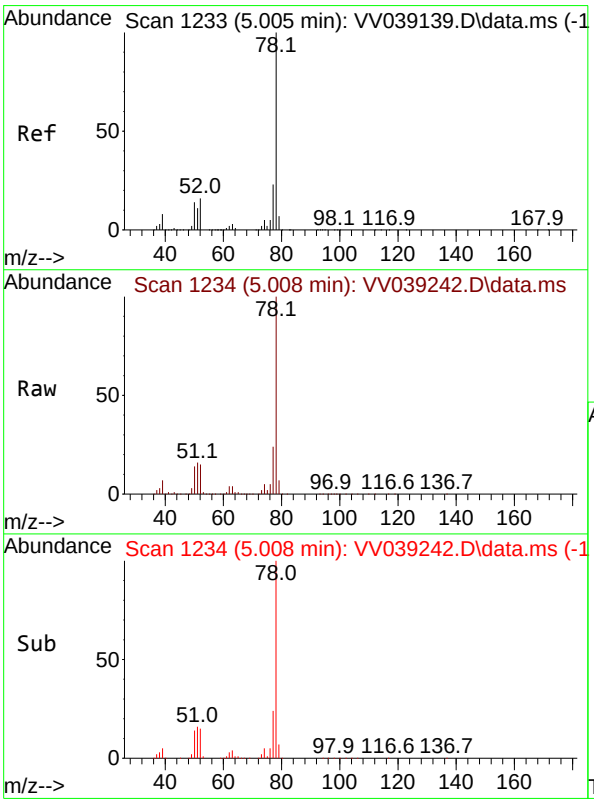
#39
Methylcyclohexane
Concen: 51.283 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 540367

Ion	Ratio	Lower	Upper
83	100		
55	76.2	60.5	90.7
98	48.6	37.8	56.6

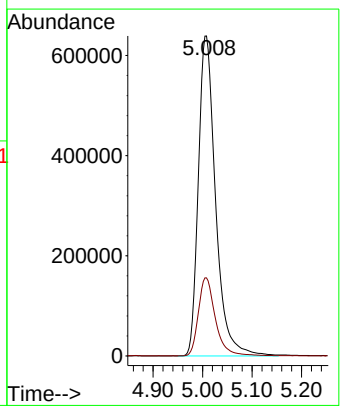


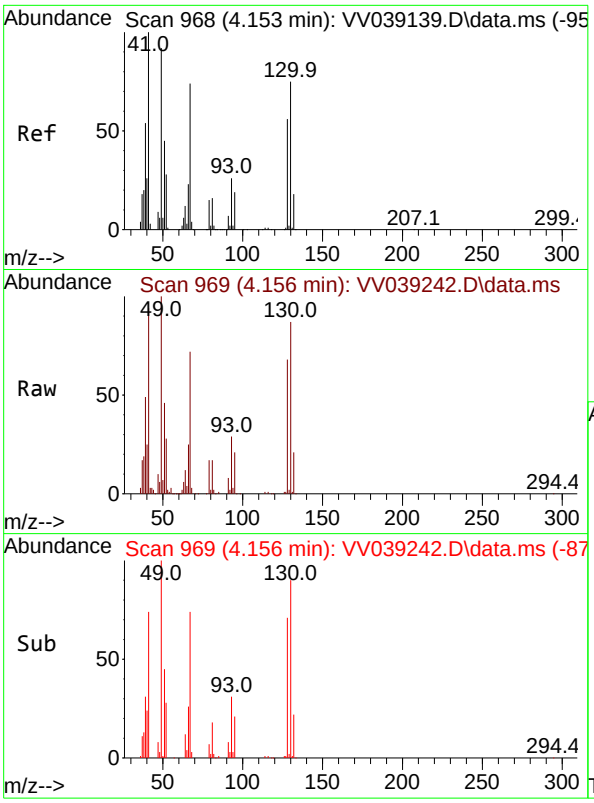


#40
Benzene
Concen: 54.504 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 78 Resp: 1548631

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.7	28.1



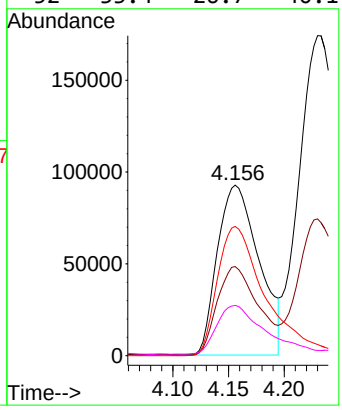


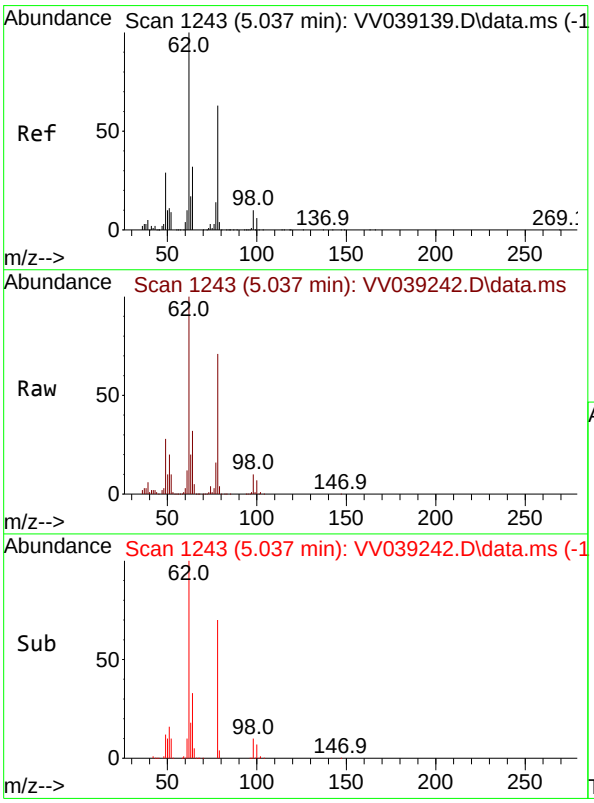
#41
Methacrylonitrile
Concen: 50.227 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 240482

Ion	Ratio	Lower	Upper
41	100		
39	51.5	42.2	63.2
67	90.0	67.9	101.9
52	33.4	26.7	40.1

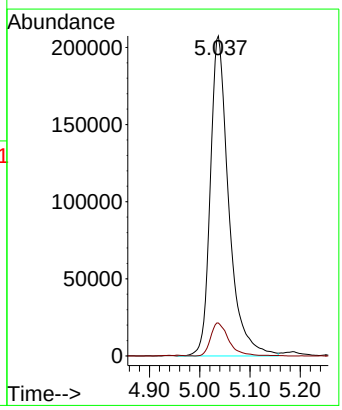


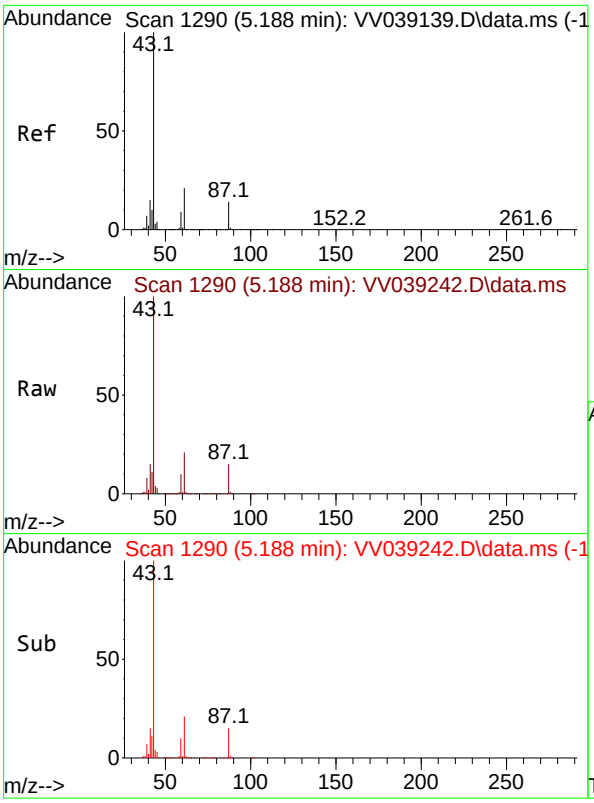


#42
1,2-Dichloroethane
Concen: 53.160 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 62 Resp: 529233

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.2



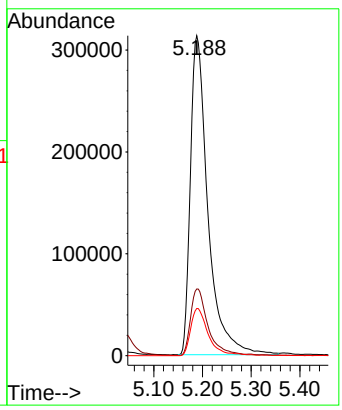


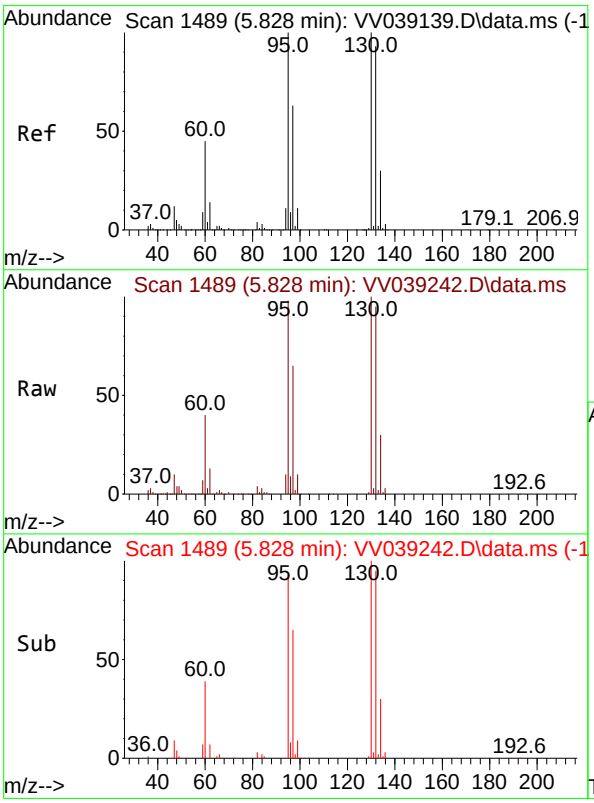
#43
Isopropyl Acetate
Concen: 54.281 ug/l
RT: 5.188 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 783601

Ion	Ratio	Lower	Upper
43	100		
61	20.5	15.9	23.9
87	14.9	11.0	16.6

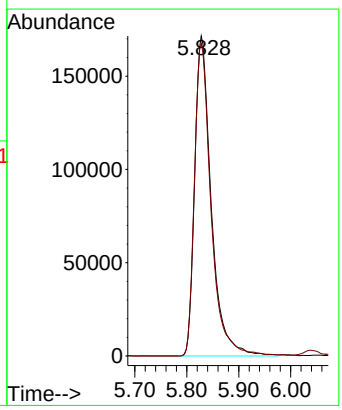


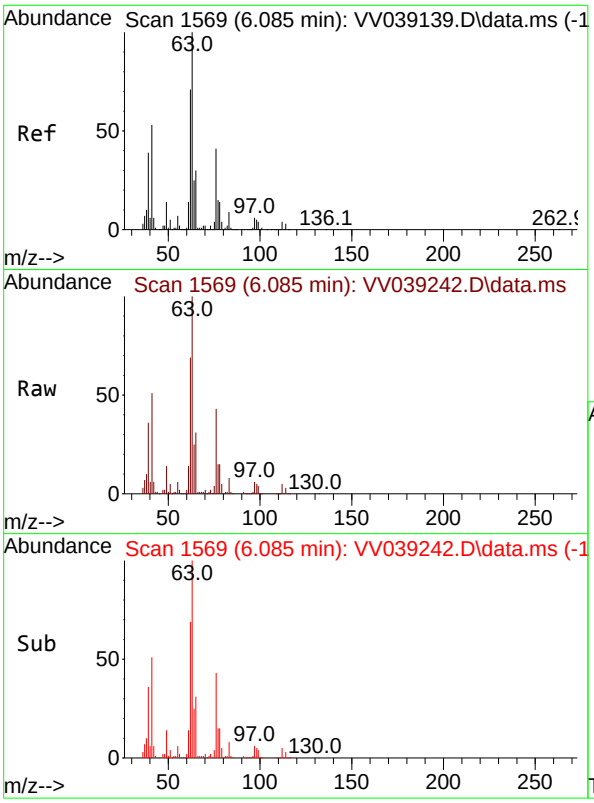


#44
Trichloroethene
Concen: 57.993 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:130 Resp: 380227

Ion	Ratio	Lower	Upper
130	100		
95	97.7	0.0	199.2



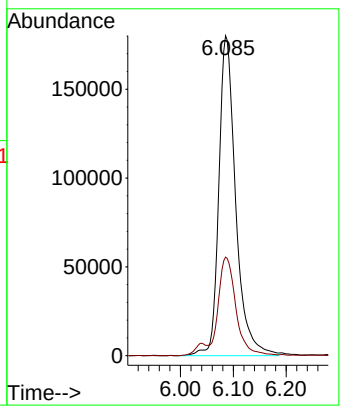


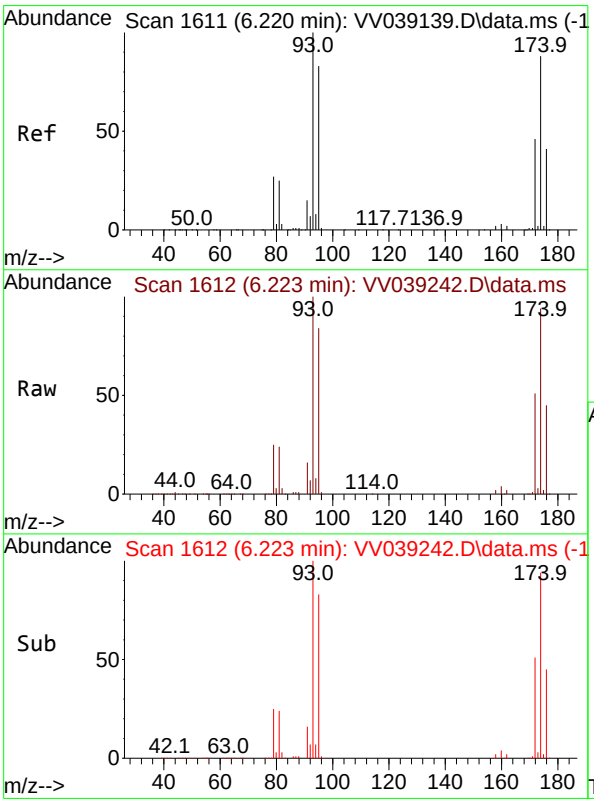
#45
1,2-Dichloropropane
Concen: 56.590 ug/l
RT: 6.085 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 399651

Ion	Ratio	Lower	Upper
63	100		
65	30.8	23.7	35.5

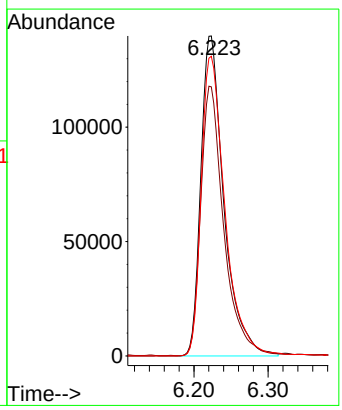


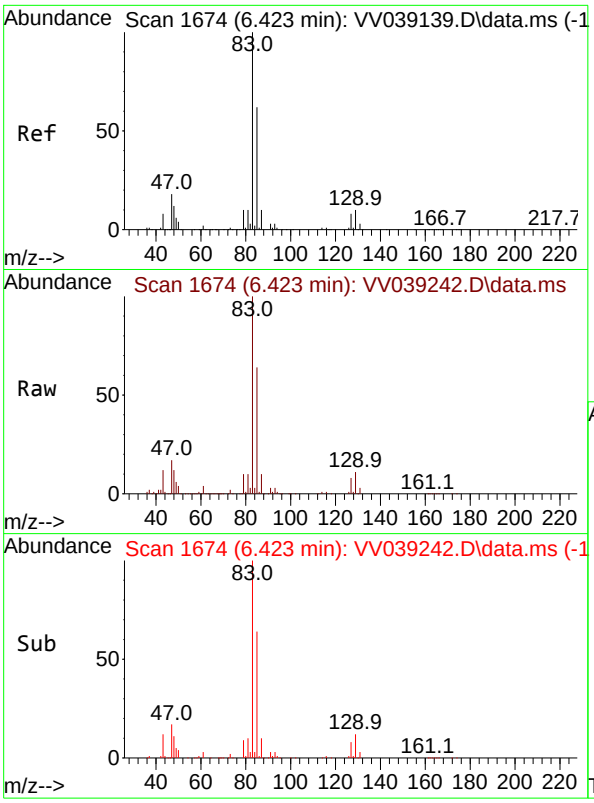


#46
Dibromomethane
Concen: 55.683 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 93 Resp: 300983

Ion	Ratio	Lower	Upper
93	100		
95	83.9	65.5	98.3
174	97.1	69.0	103.4



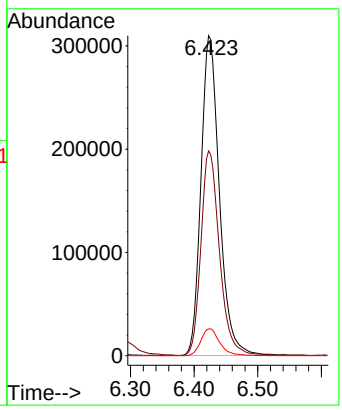


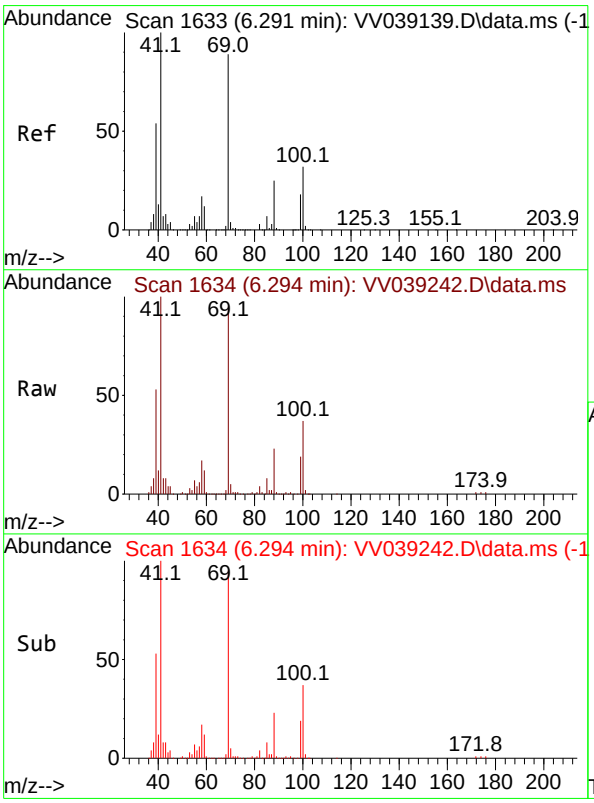
#47
Bromodichloromethane
Concen: 55.859 ug/l
RT: 6.423 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 624205

Ion	Ratio	Lower	Upper
83	100		
85	63.9	49.7	74.5
127	8.4	6.6	9.8

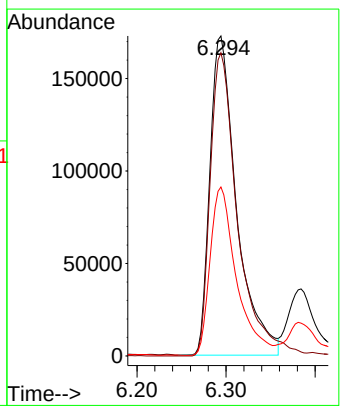


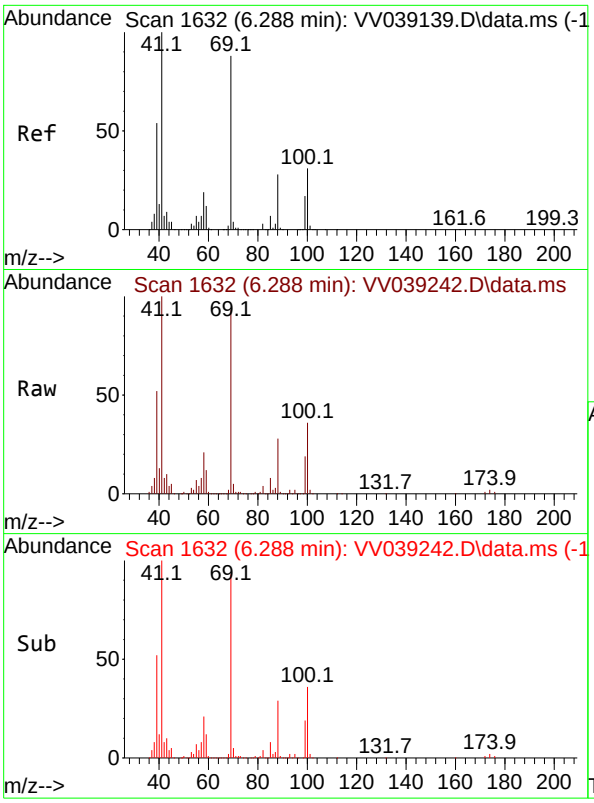


#48
Methyl methacrylate
Concen: 55.003 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 41 Resp: 359934

Ion	Ratio	Lower	Upper
41	100		
69	97.5	72.4	108.6
39	51.8	42.5	63.7



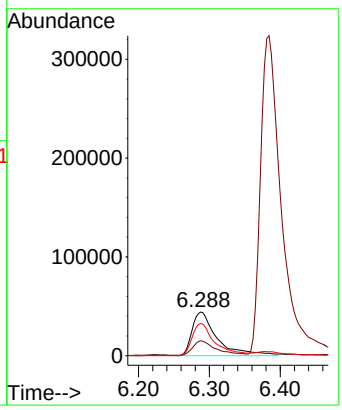


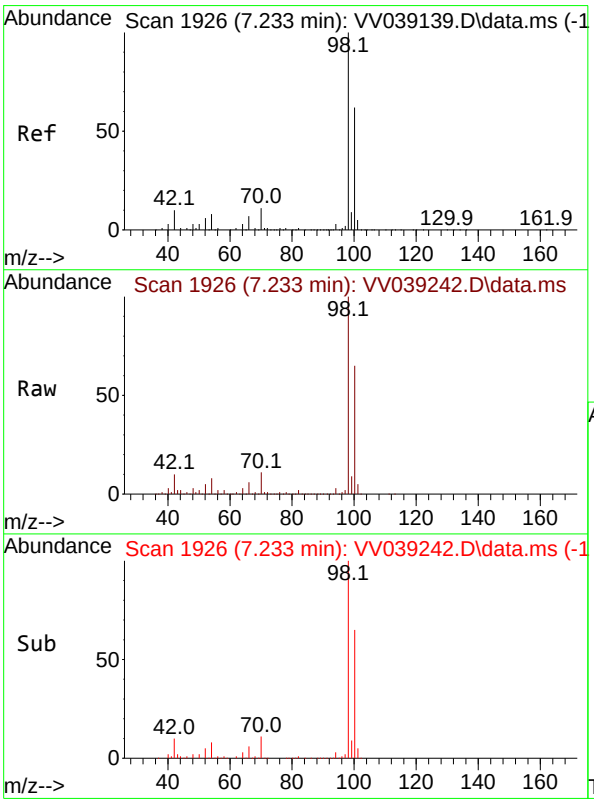
#49
1,4-Dioxane
Concen: 1030.978 ug/l
RT: 6.288 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 108875

Ion	Ratio	Lower	Upper
88	100		
43	30.3	25.1	37.7
58	66.3	53.6	80.4

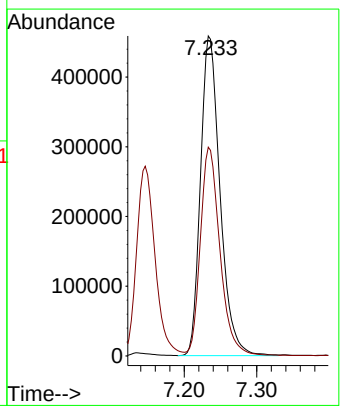


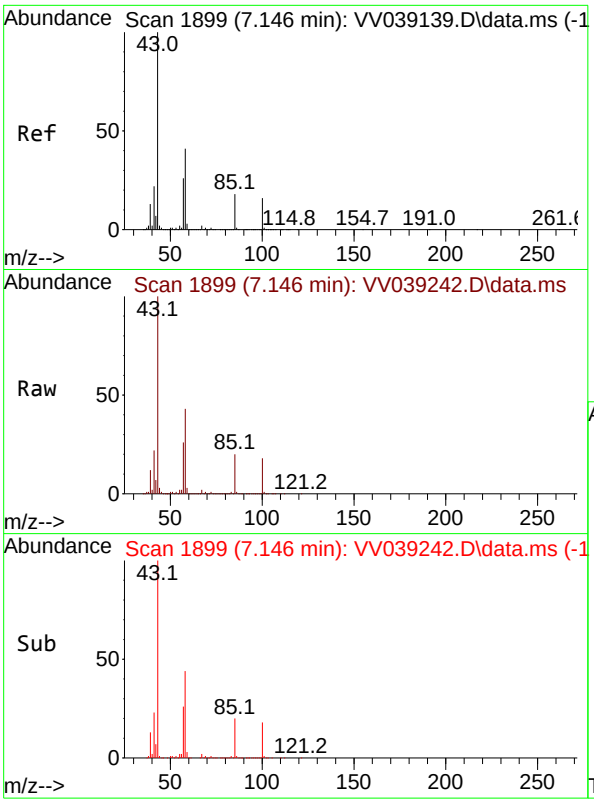


#50
Toluene-d8
Concen: 50.551 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 98 Resp: 856835

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.2	78.2



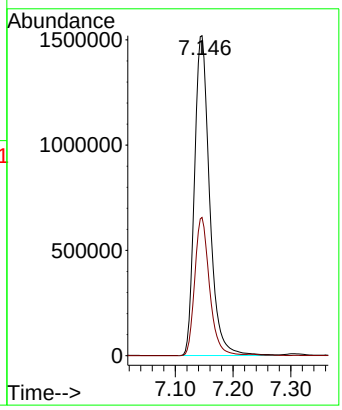


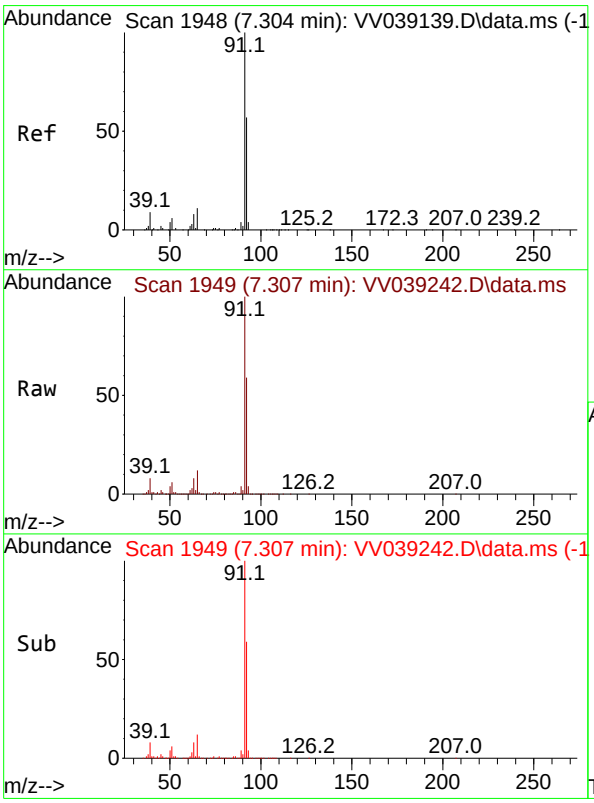
#51
4-Methyl-2-Pentanone
Concen: 290.997 ug/l
RT: 7.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2763632

Ion	Ratio	Lower	Upper
43	100		
58	42.3	32.3	48.5

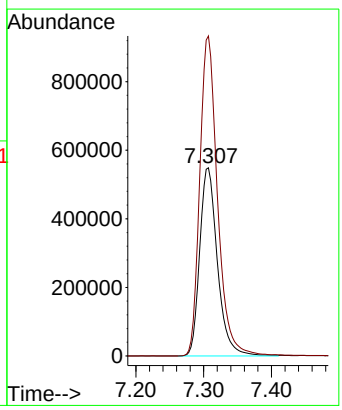


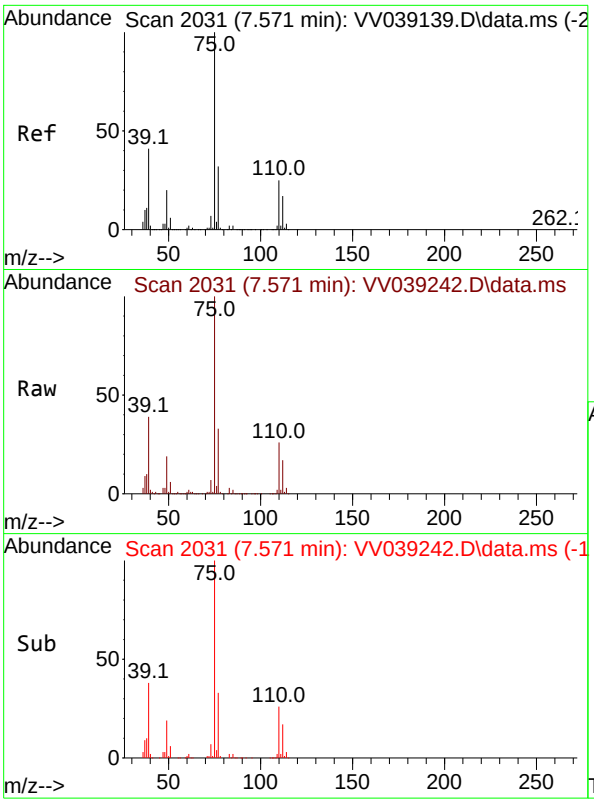


#52
Toluene
Concen: 60.564 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 92 Resp: 997722

Ion	Ratio	Lower	Upper
92	100		
91	170.6	139.2	208.8



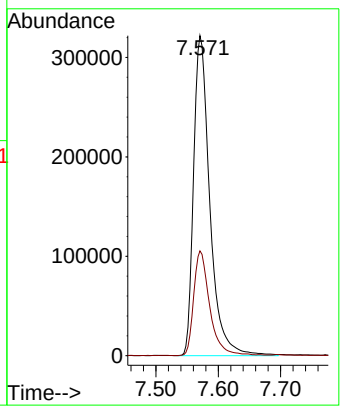


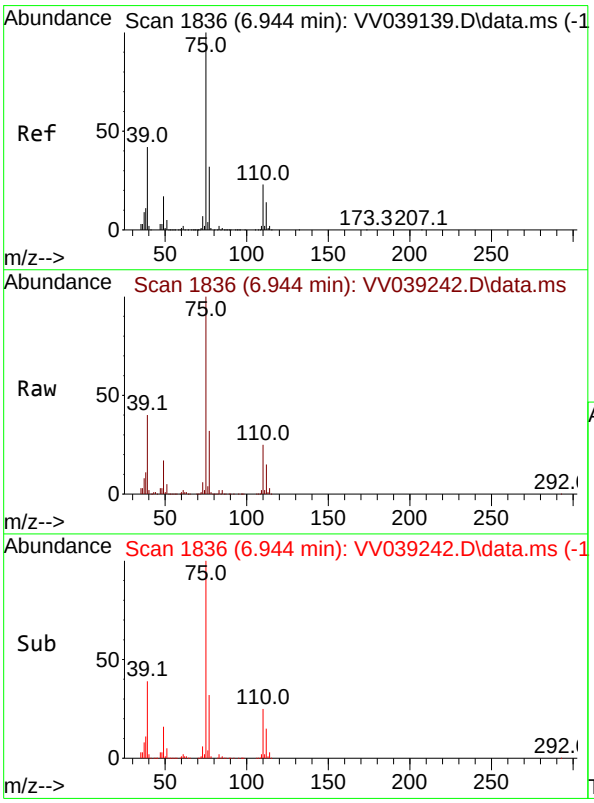
#53
t-1,3-Dichloropropene
Concen: 59.756 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 581937

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.9	38.9

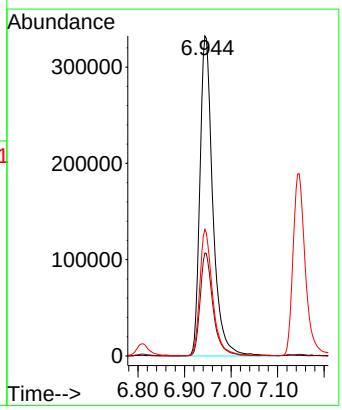


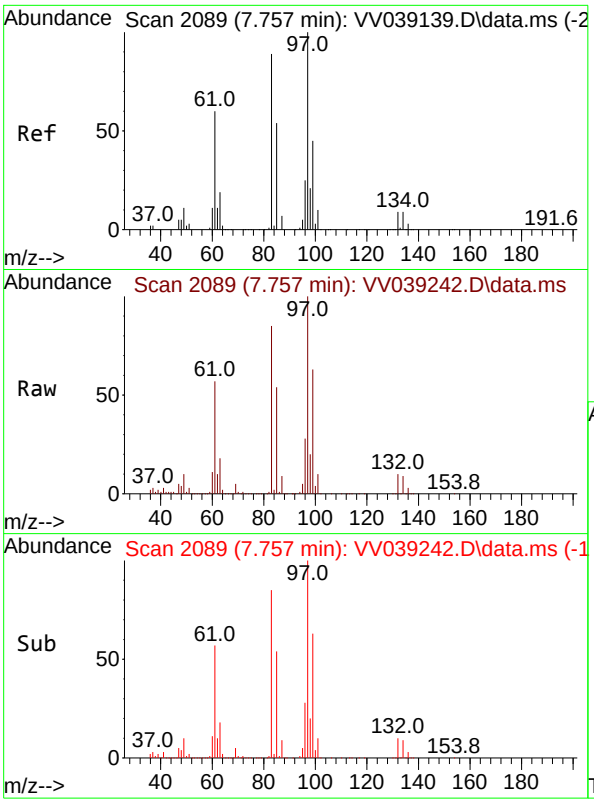


#54
cis-1,3-Dichloropropene
Concen: 59.500 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 75 Resp: 639668

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.5	38.3
39	39.5	33.8	50.6



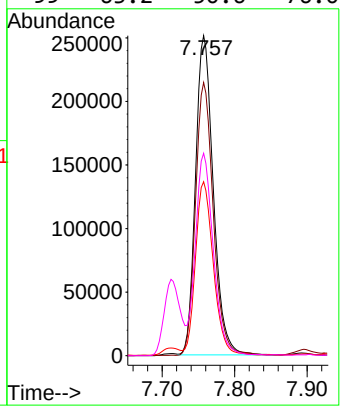


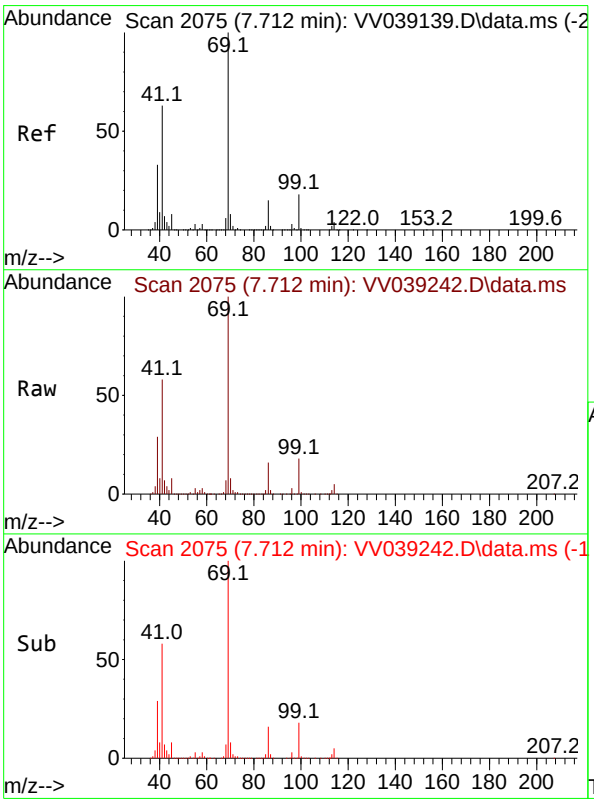
#55
1,1,2-Trichloroethane
Concen: 57.949 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 428052

Ion	Ratio	Lower	Upper
97	100		
83	85.4	71.1	106.7
85	54.3	44.6	67.0
99	63.2	50.6	76.0

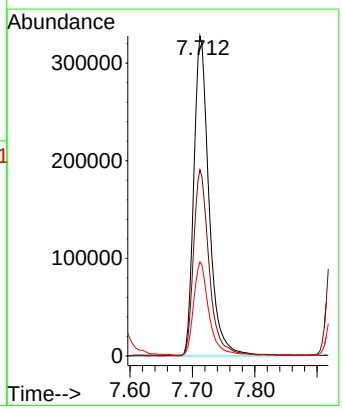


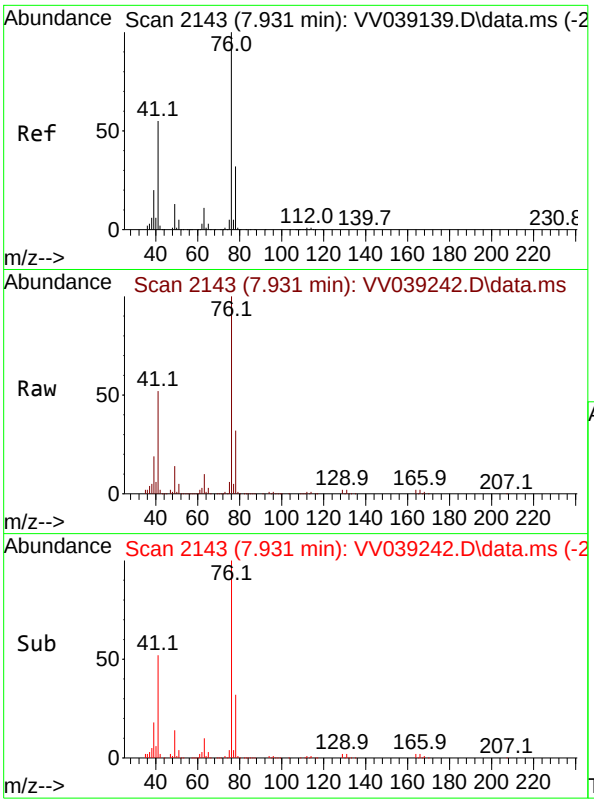


#56
Ethyl methacrylate
Concen: 63.413 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 69 Resp: 556268

Ion	Ratio	Lower	Upper
69	100		
41	58.9	50.7	76.1
39	28.8	26.0	39.0



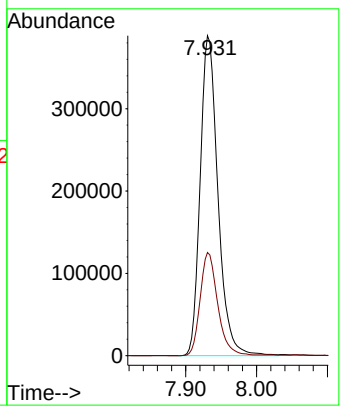


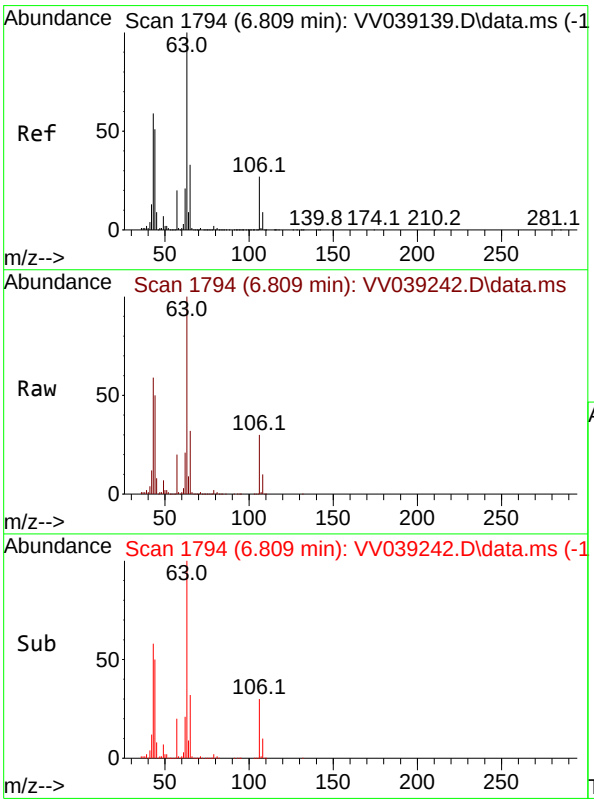
#57
1,3-Dichloropropane
Concen: 57.955 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 675609

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.1	39.1

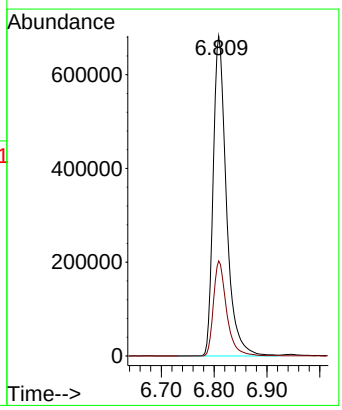


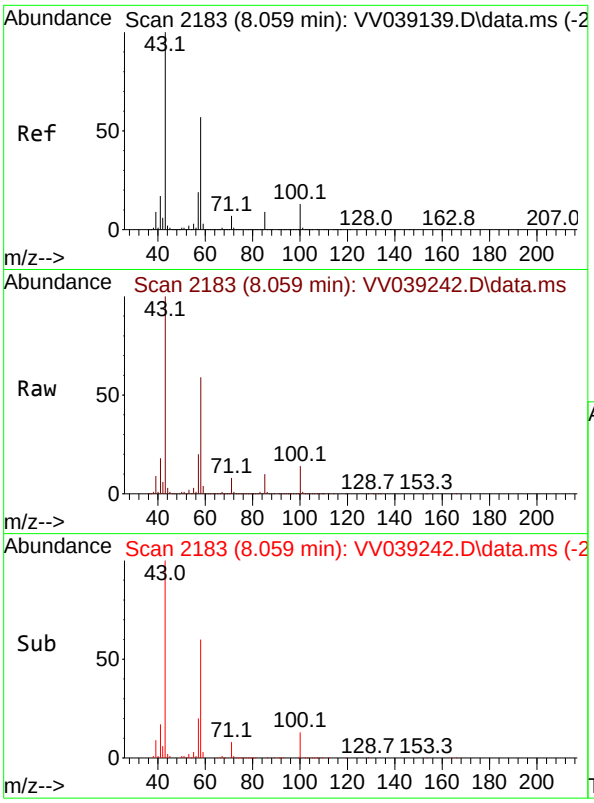


#58
2-Chloroethyl Vinyl ether
Concen: 240.718 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 63 Resp: 1190479

Ion	Ratio	Lower	Upper
63	100		
106	29.4	22.1	33.1



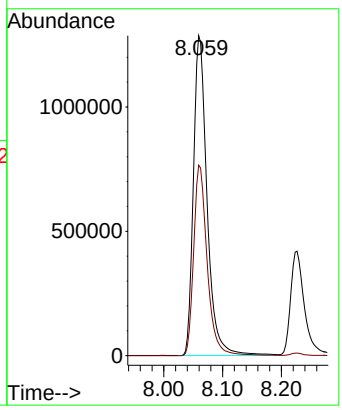


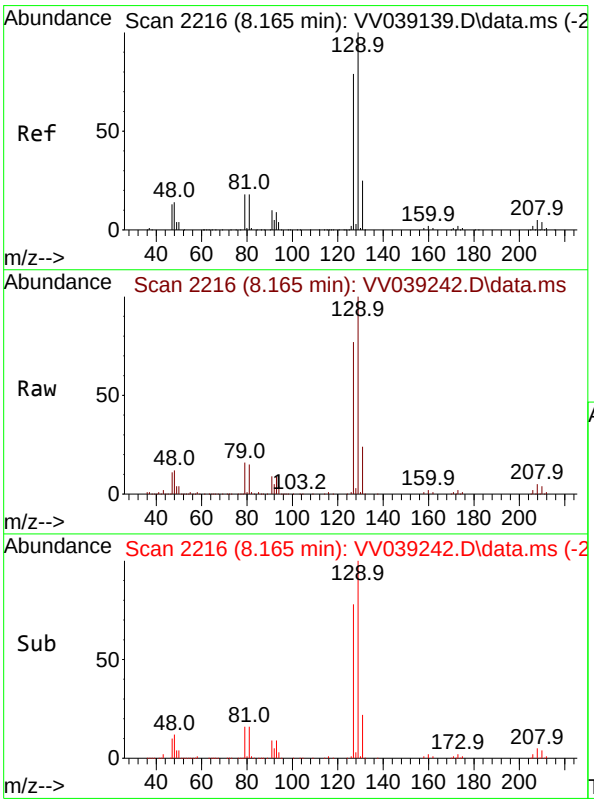
#59
2-Hexanone
Concen: 270.676 ug/l
RT: 8.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2076495

Ion	Ratio	Lower	Upper
43	100		
58	59.0	28.3	85.0

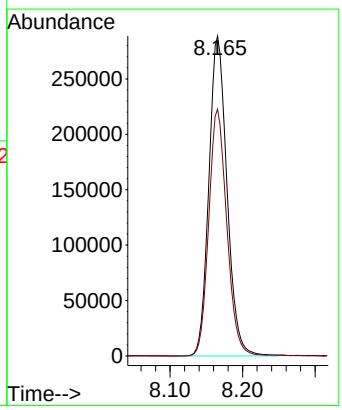


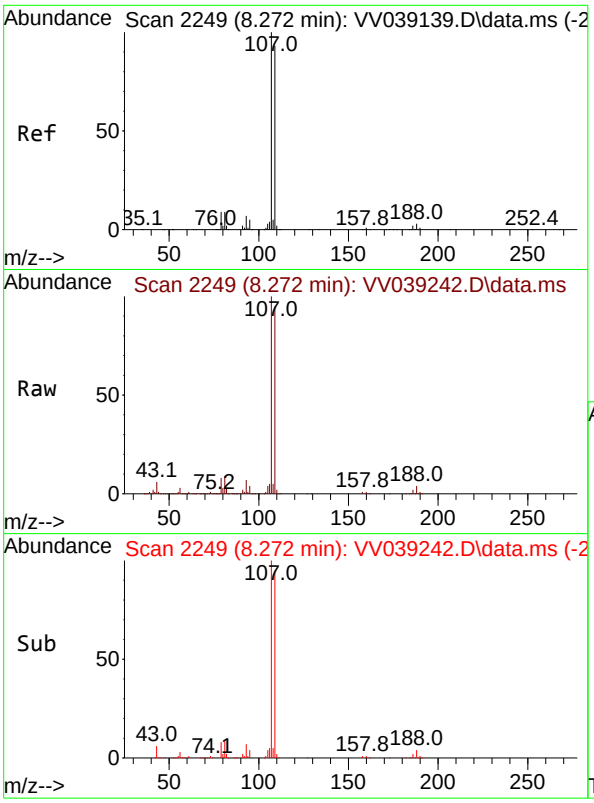


#60
Dibromochloromethane
Concen: 59.550 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:129 Resp: 501215

Ion	Ratio	Lower	Upper
129	100		
127	76.9	39.3	117.9



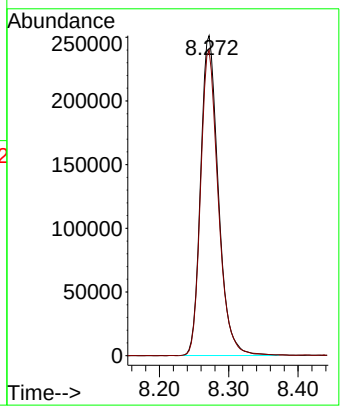


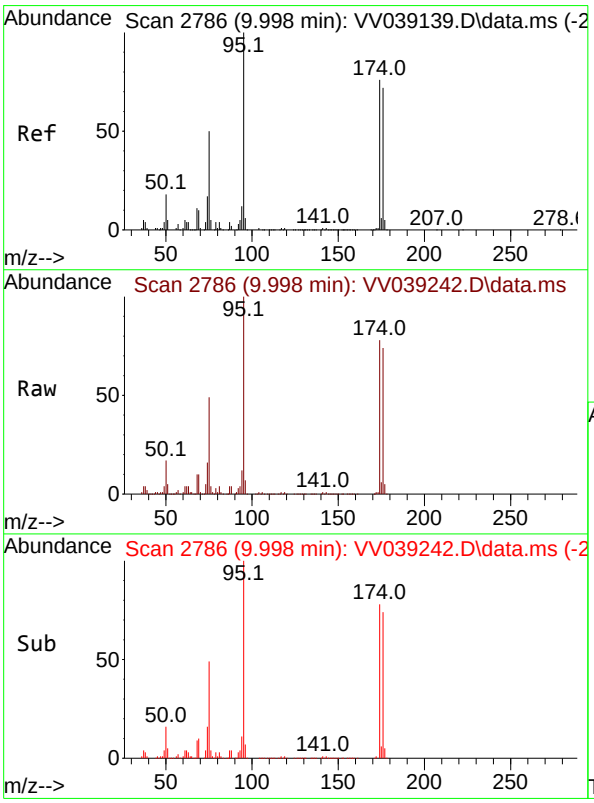
#61
1,2-Dibromoethane
Concen: 59.030 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 445928

Ion	Ratio	Lower	Upper
107	100		
109	95.4	74.6	112.0

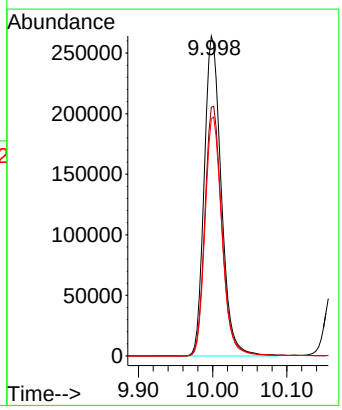


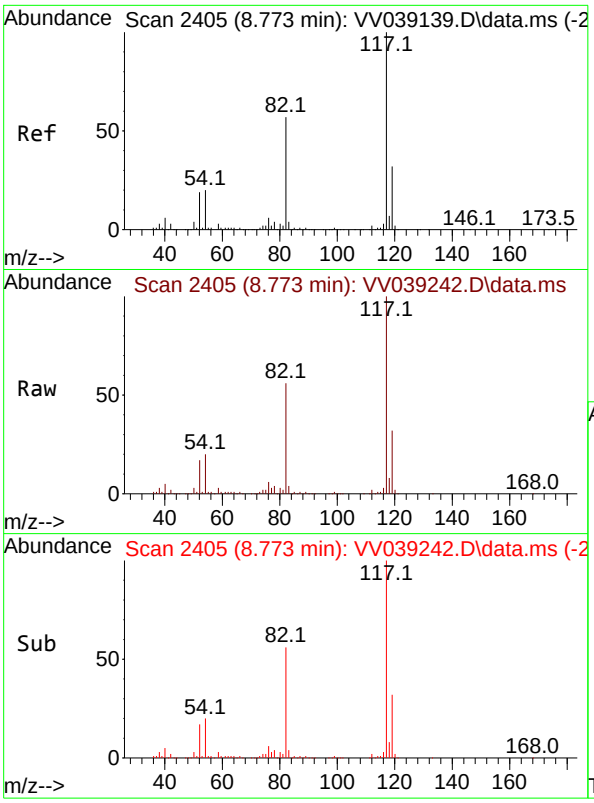


#62
4-Bromofluorobenzene
Concen: 60.326 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 95 Resp: 420941

Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	150.4
176	74.1	0.0	144.2



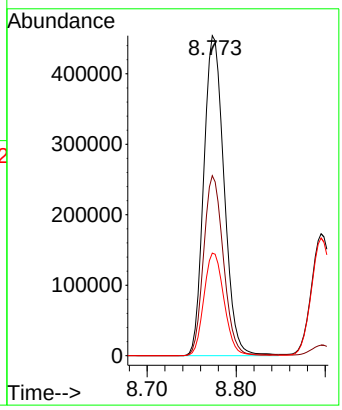


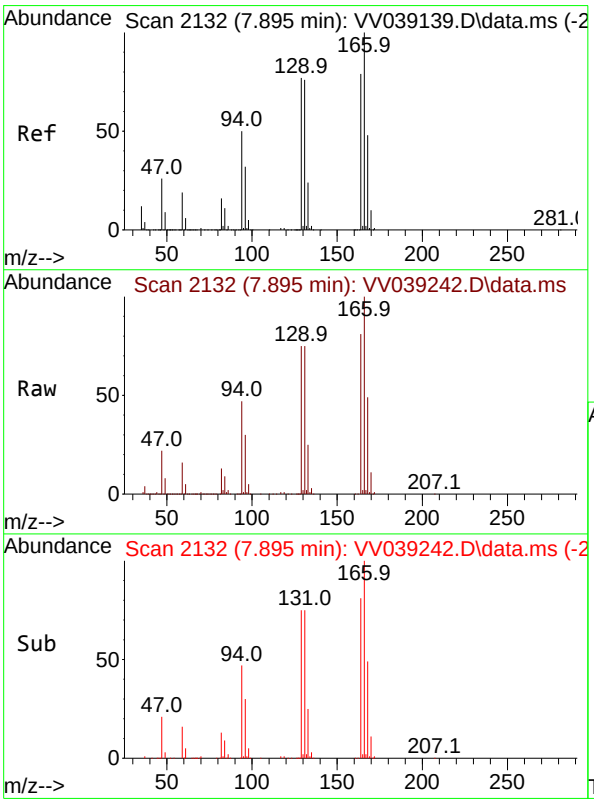
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 718198

Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.4	68.2
119	32.1	25.6	38.4

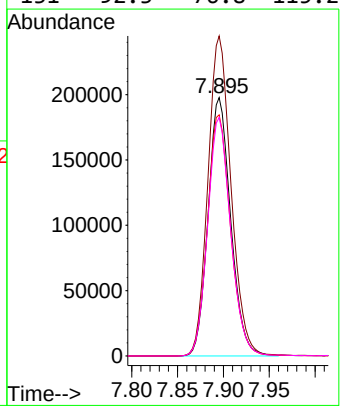


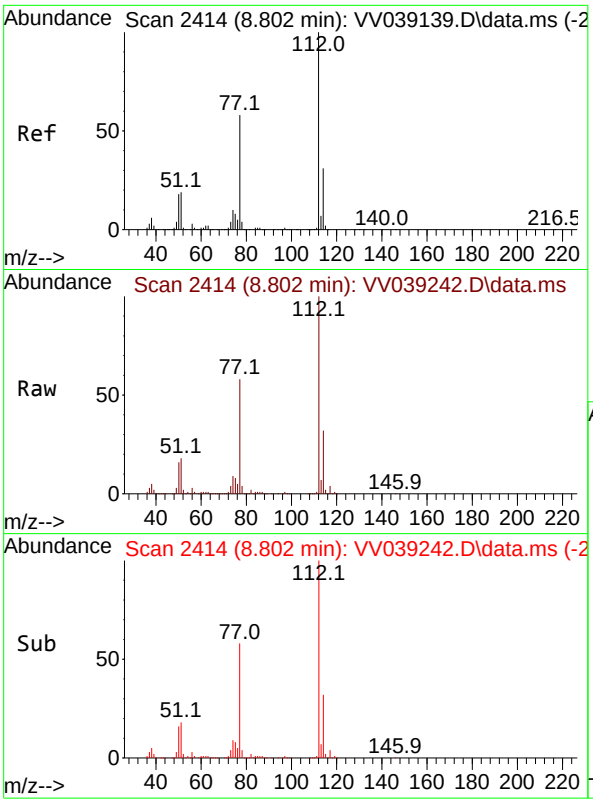


#64
Tetrachloroethene
Concen: 56.385 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:164 Resp: 339185

Ion	Ratio	Lower	Upper
164	100		
166	123.9	101.6	152.4
129	93.3	78.5	117.7
131	92.3	76.8	115.2



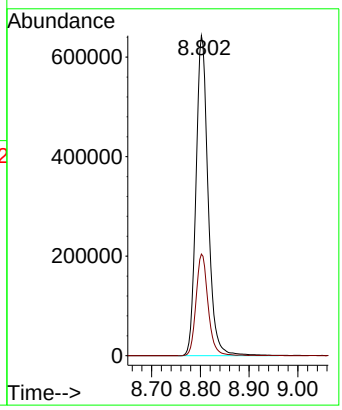


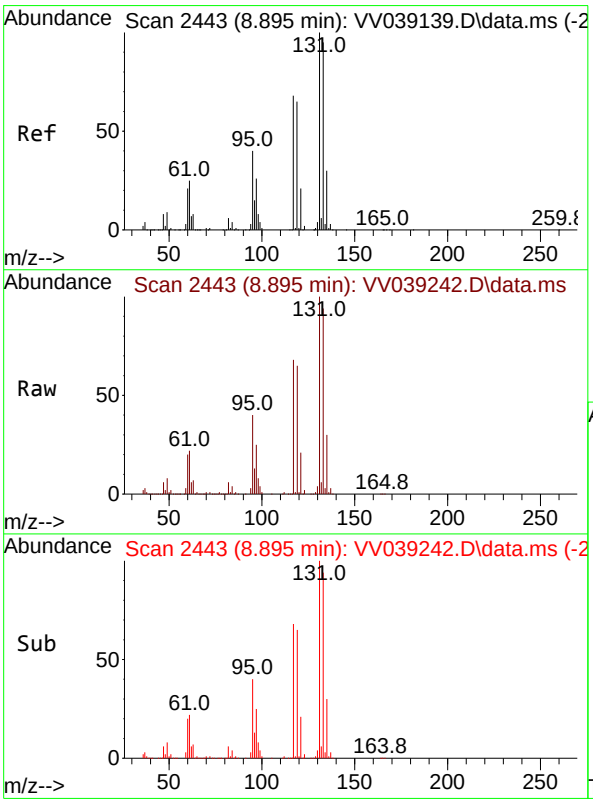
#65
Chlorobenzene
Concen: 55.521 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 1110690

Ion	Ratio	Lower	Upper
112	100		
114	31.8	24.6	37.0

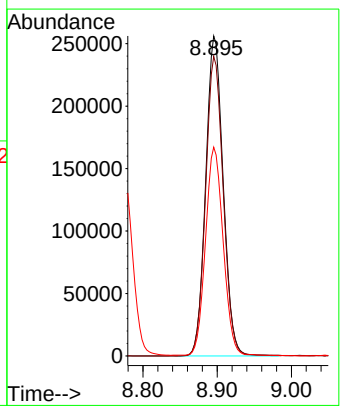


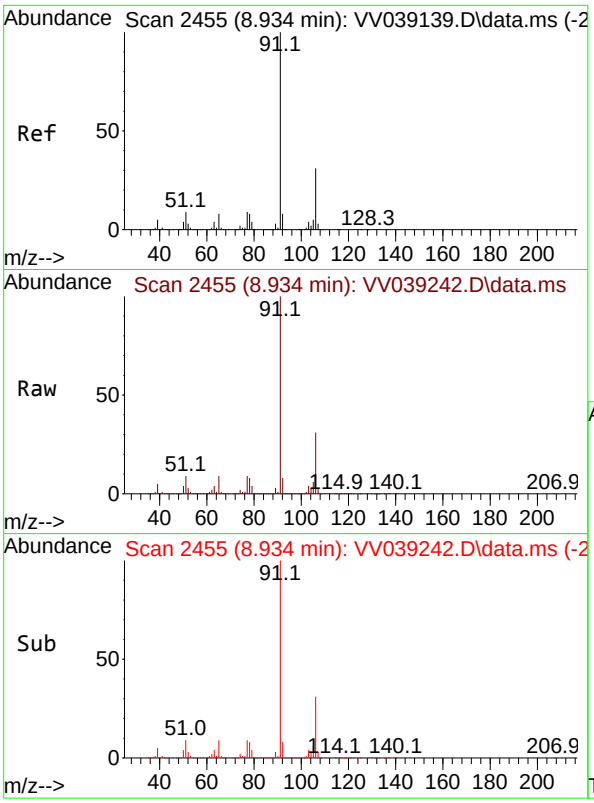


#66
1,1,1,2-Tetrachloroethane
Concen: 57.876 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:131 Resp: 418344

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.8
119	65.8	33.3	99.8



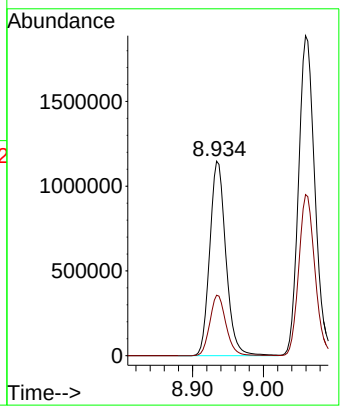


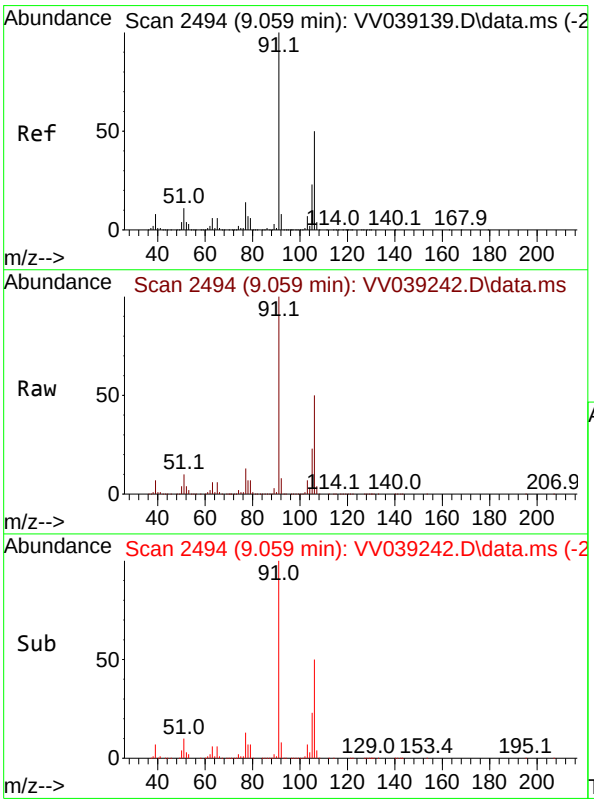
#67
Ethyl Benzene
Concen: 60.034 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1817939

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.6	37.0

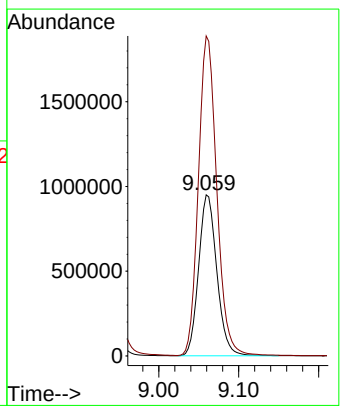


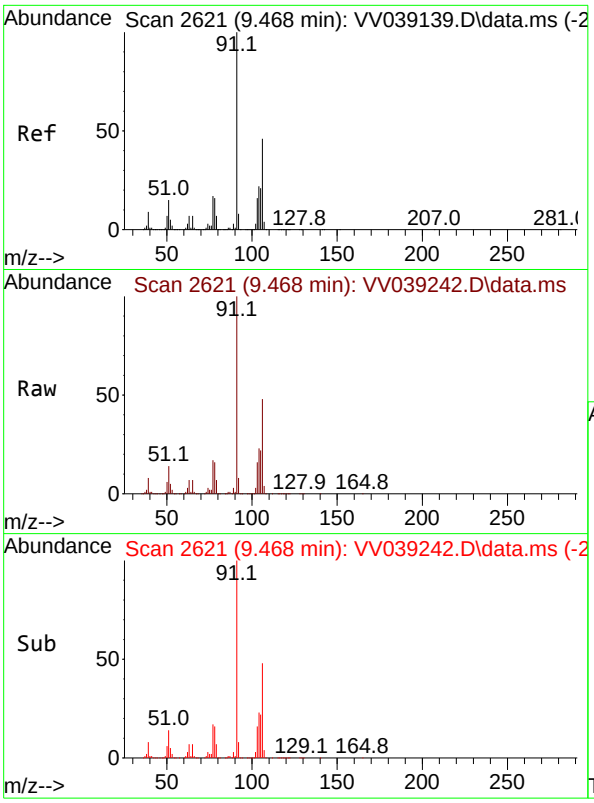


#68
m/p-Xylenes
Concen: 129.107 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:106 Resp: 1508955

Ion	Ratio	Lower	Upper
106	100		
91	200.5	162.5	243.7



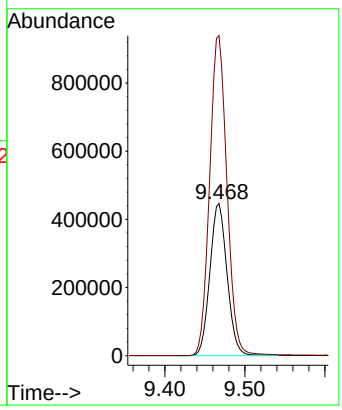


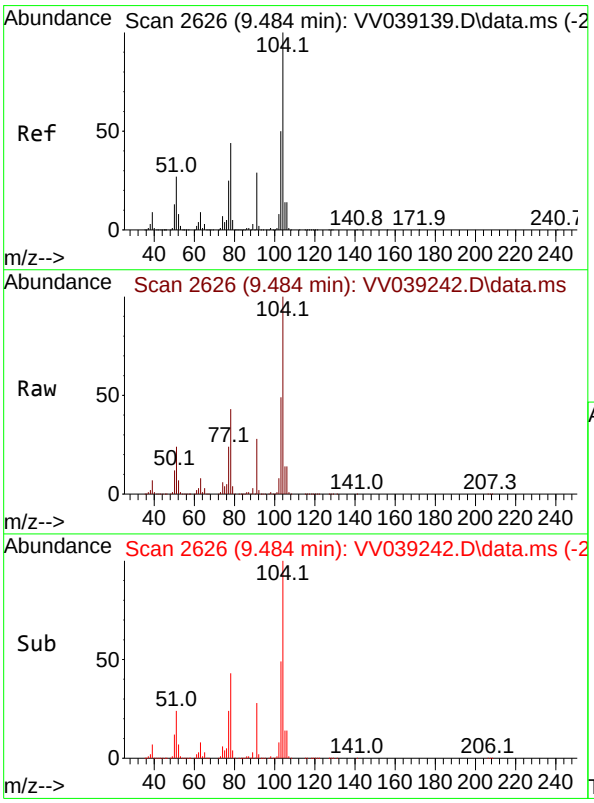
#69
o-Xylene
Concen: 64.270 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 665107

Ion	Ratio	Lower	Upper
106	100		
91	212.8	109.1	327.3

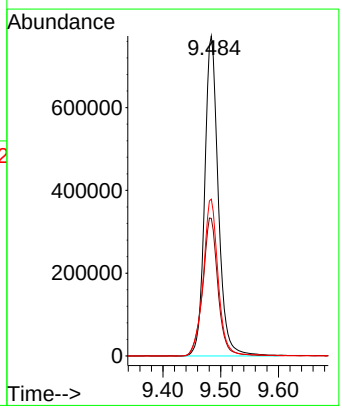


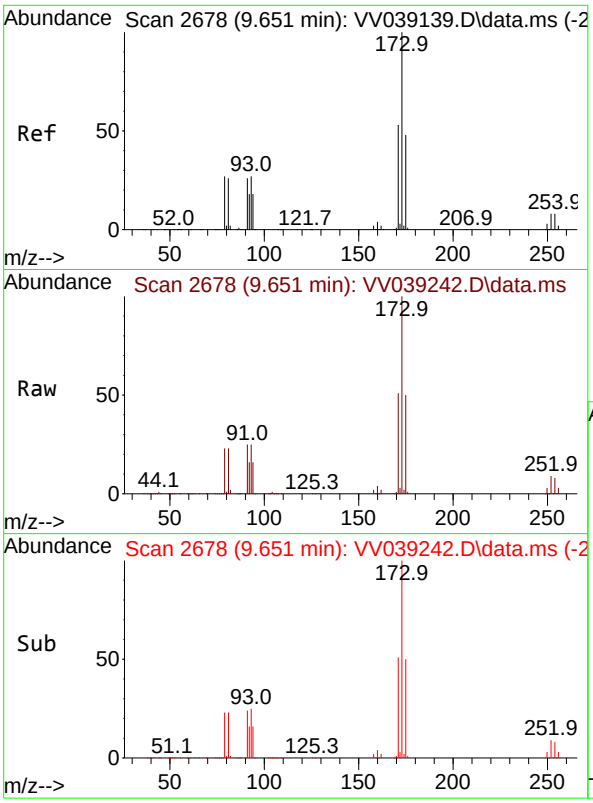


#70
Styrene
Concen: 57.814 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:104 Resp: 1271498

Ion	Ratio	Lower	Upper
104	100		
78	48.1	39.8	59.6
103	53.2	43.4	65.2



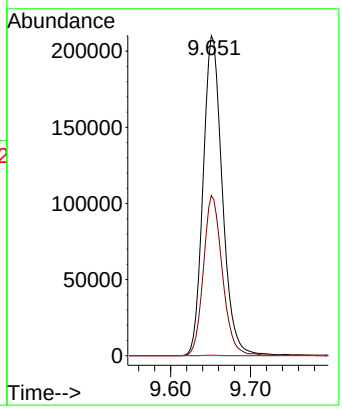


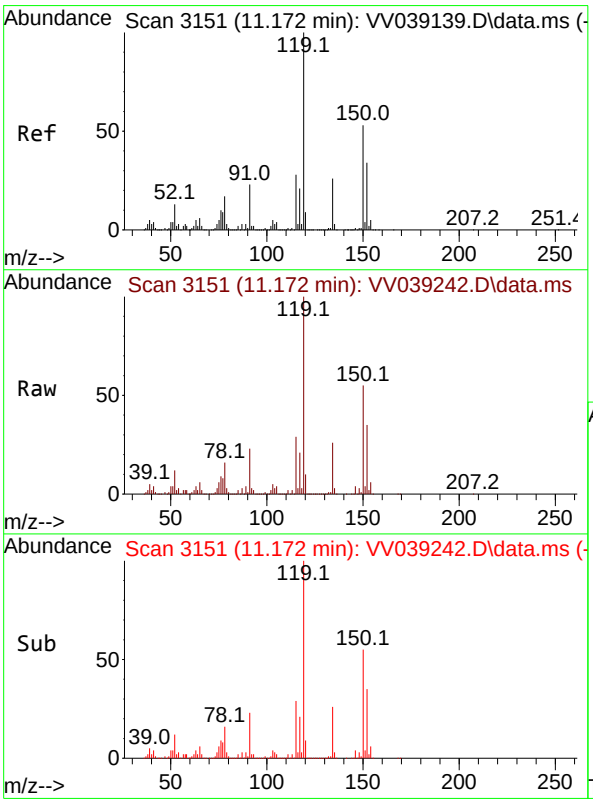
#71
Bromoform
Concen: 62.277 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 351628

Ion	Ratio	Lower	Upper
173	100		
175	49.5	23.9	71.7
254	0.1	0.1	0.1#

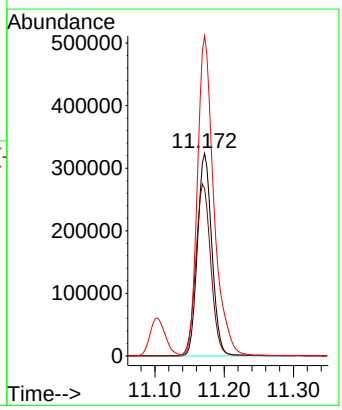


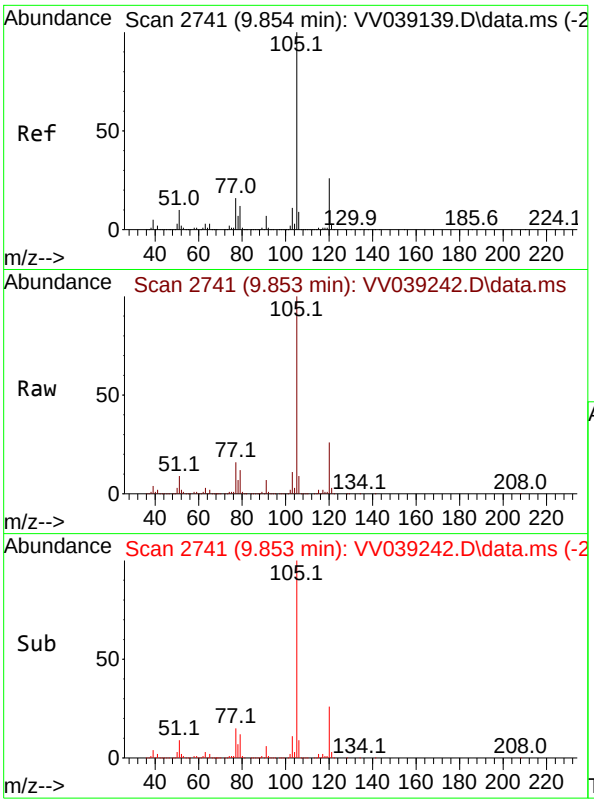


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:152 Resp: 467640

Ion	Ratio	Lower	Upper
152	100		
115	89.0	44.8	134.4
150	179.7	0.0	353.8



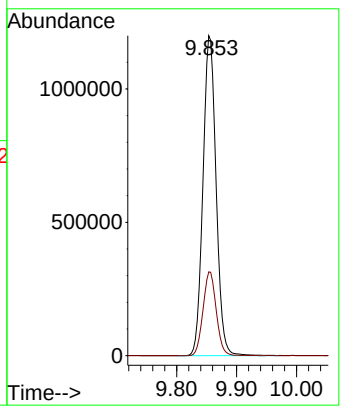


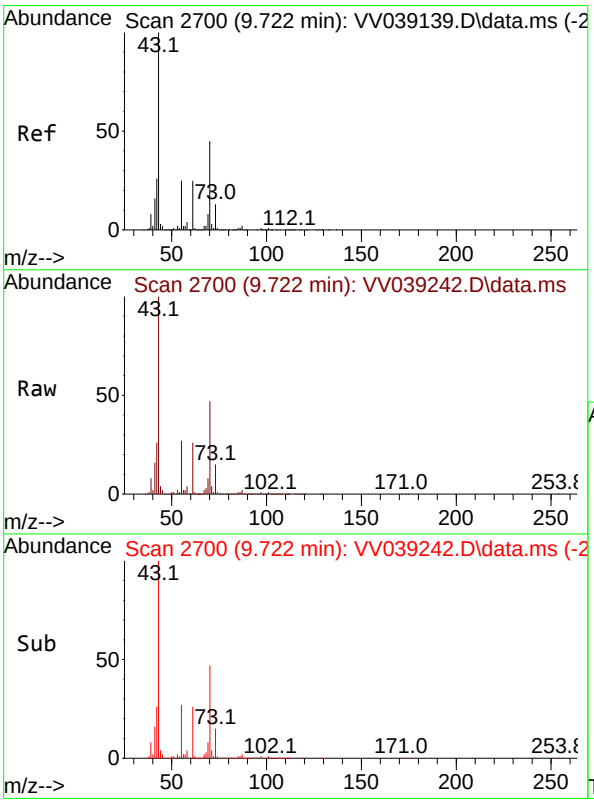
#73
Isopropylbenzene
Concen: 53.992 ug/l
RT: 9.853 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1831320

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.1	39.1

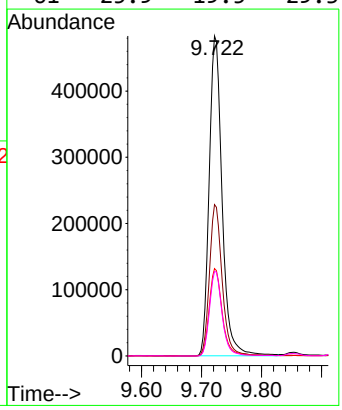


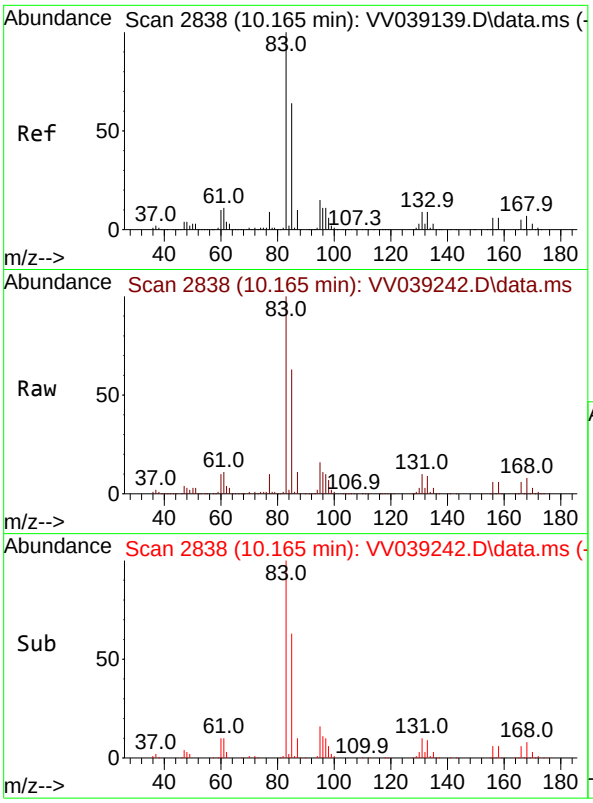


#74
N-amyl acetate
Concen: 53.488 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 43 Resp: 723655

Ion	Ratio	Lower	Upper
43	100		
70	46.8	35.4	53.0
55	27.7	20.6	30.8
61	25.9	19.5	29.3



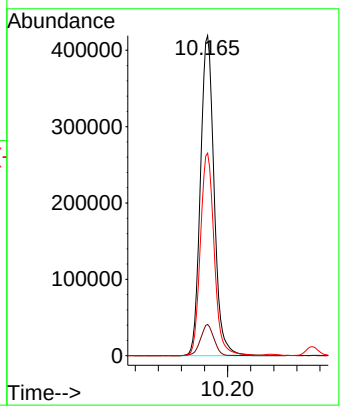


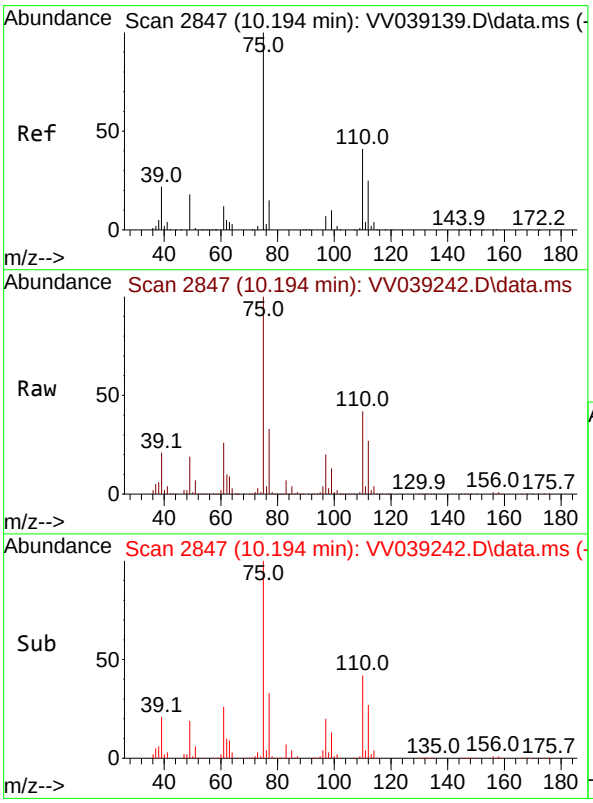
#75
1,1,2,2-Tetrachloroethane
Concen: 46.331 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 688542

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	63.9	31.9	95.9

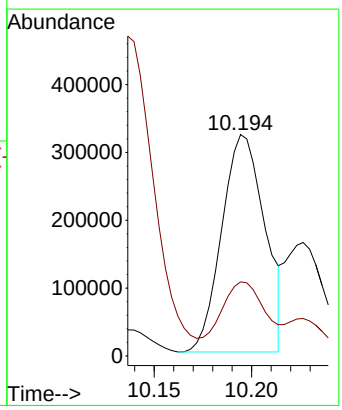


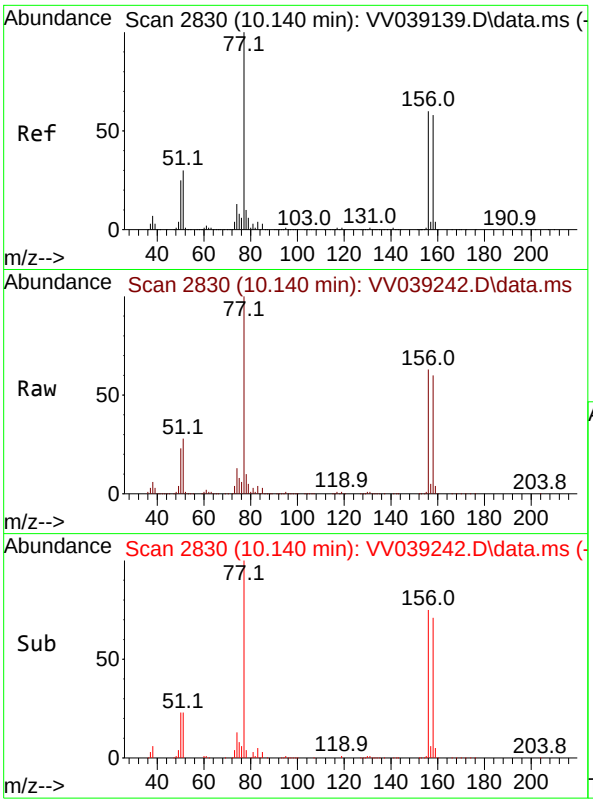


#76
1,2,3-Trichloropropane
Concen: 46.268 ug/l
RT: 10.194 min Scan# 2847
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 75 Resp: 492632

Ion	Ratio	Lower	Upper
75	100		
77	23.0	11.3	33.8



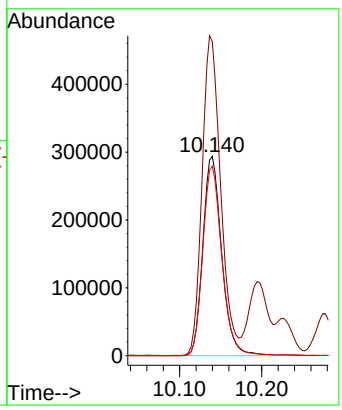


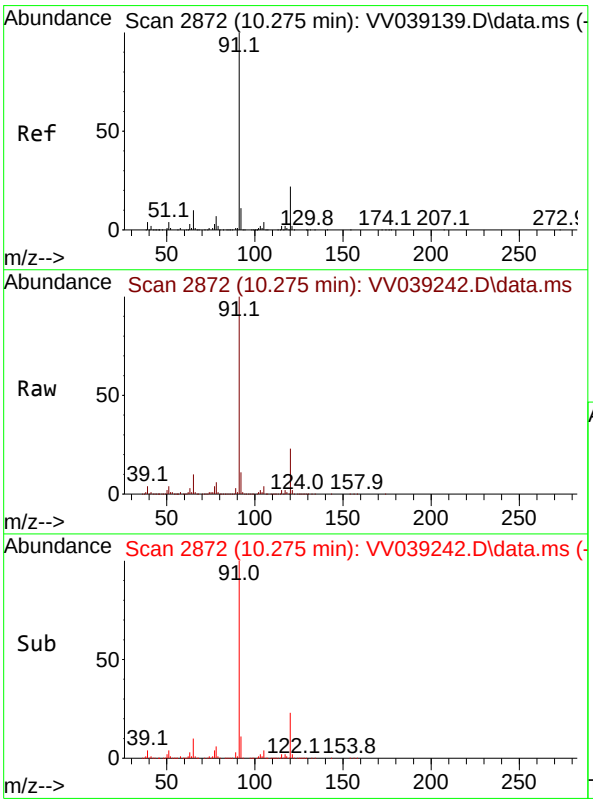
#77
Bromobenzene
Concen: 53.208 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 468225

Ion	Ratio	Lower	Upper
156	100		
77	157.6	83.4	250.1
158	96.7	48.8	146.4

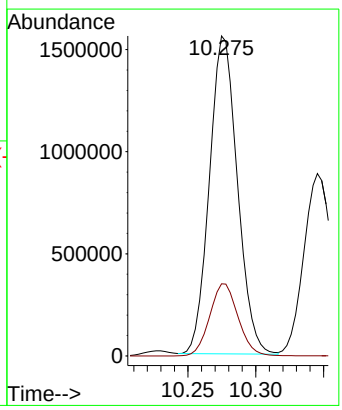


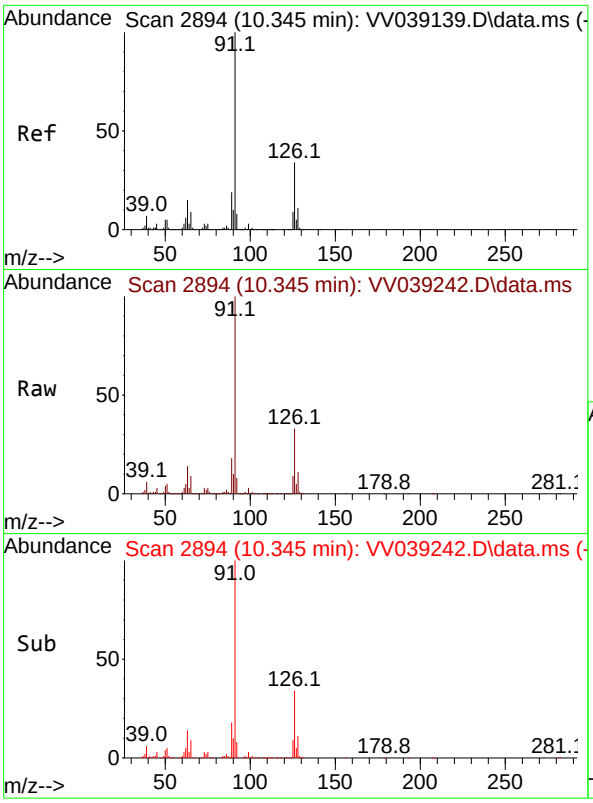


#78
n-propylbenzene
Concen: 54.089 ug/l
RT: 10.275 min Scan# 2872
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 91 Resp: 2234110

Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.1	33.3



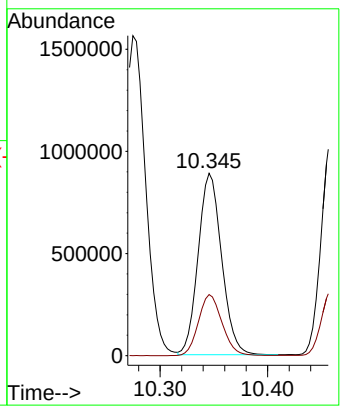


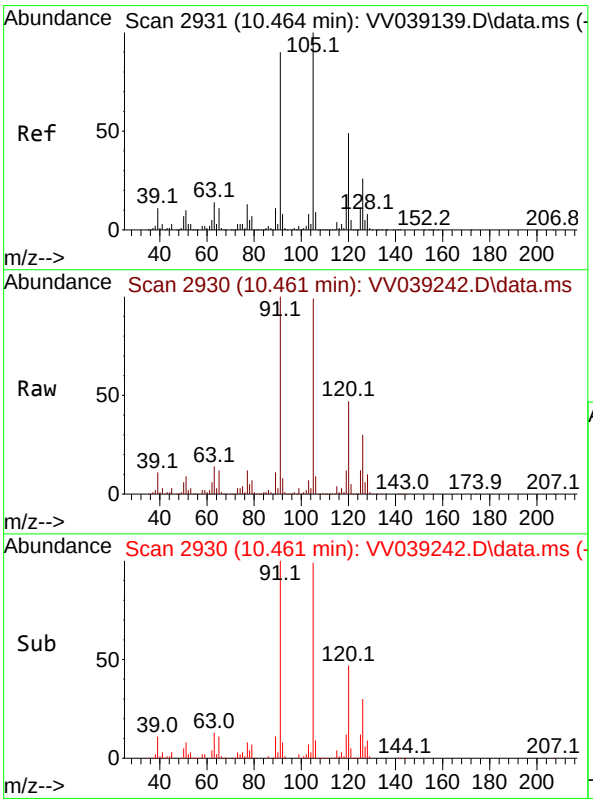
#79
2-Chlorotoluene
Concen: 54.565 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1348583

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.7	50.0

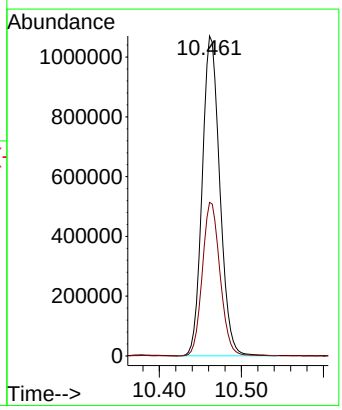


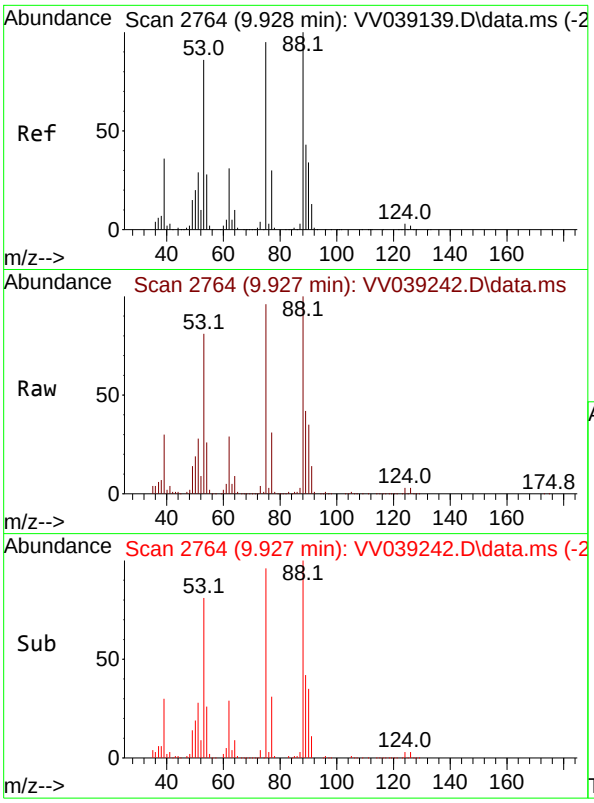


#80
1,3,5-Trimethylbenzene
Concen: 56.508 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:105 Resp: 1593104

Ion	Ratio	Lower	Upper
105	100		
120	48.4	24.3	72.8



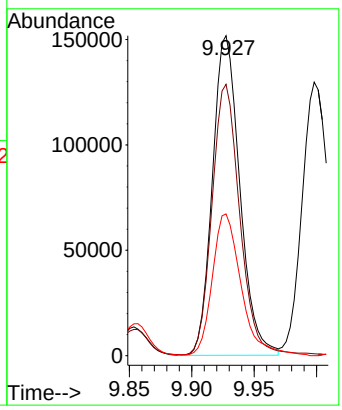


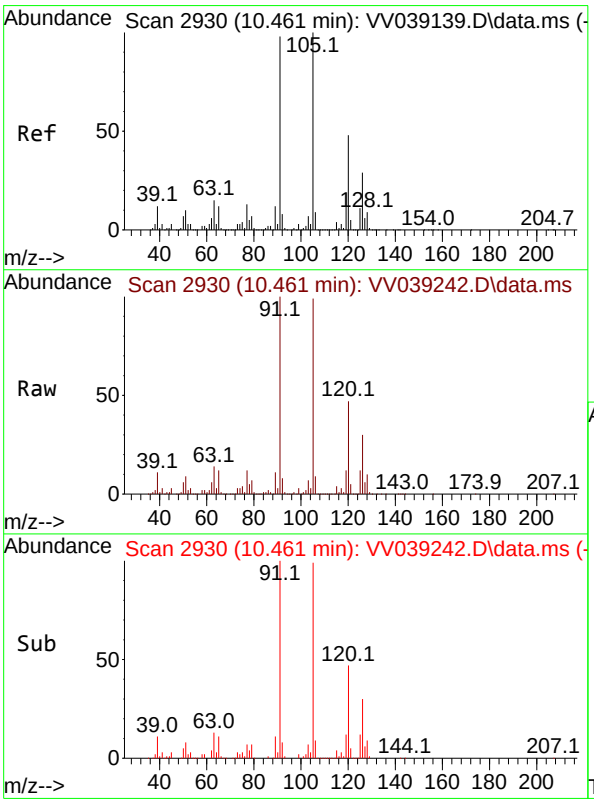
#81
trans-1,4-Dichloro-2-butene
Concen: 52.378 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 232306

Ion	Ratio	Lower	Upper
75	100		
53	85.4	72.5	108.7
89	46.8	37.2	55.8

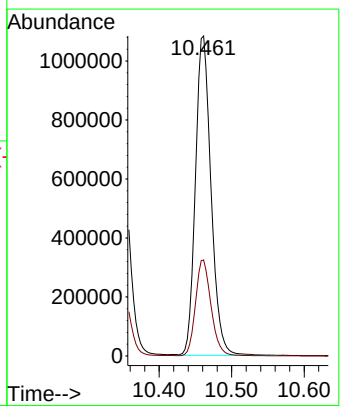


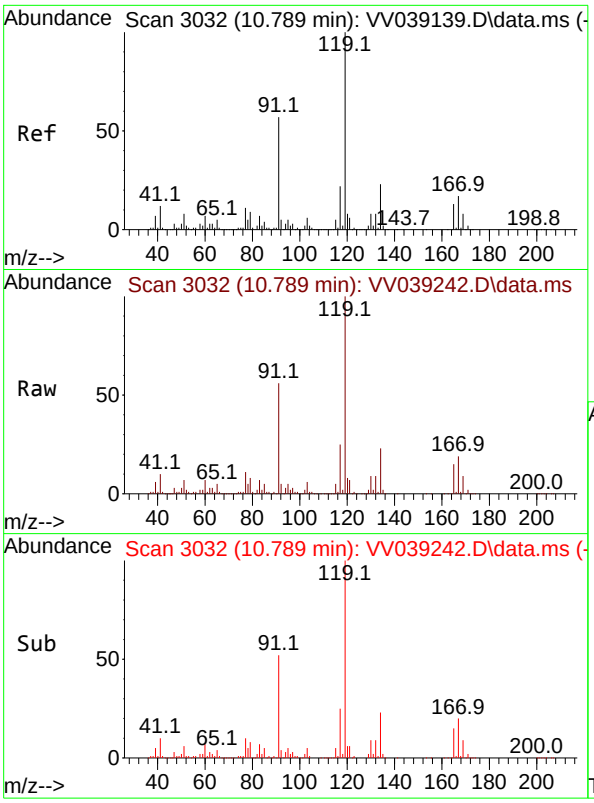


#82
4-Chlorotoluene
Concen: 56.397 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 91 Resp: 1616280

Ion	Ratio	Lower	Upper
91	100		
126	29.9	14.5	43.6



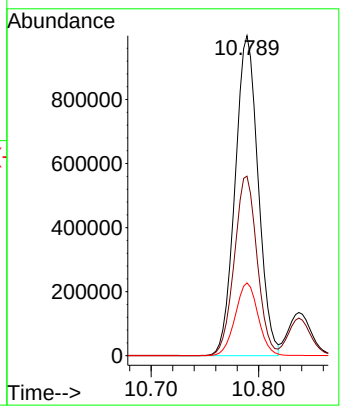


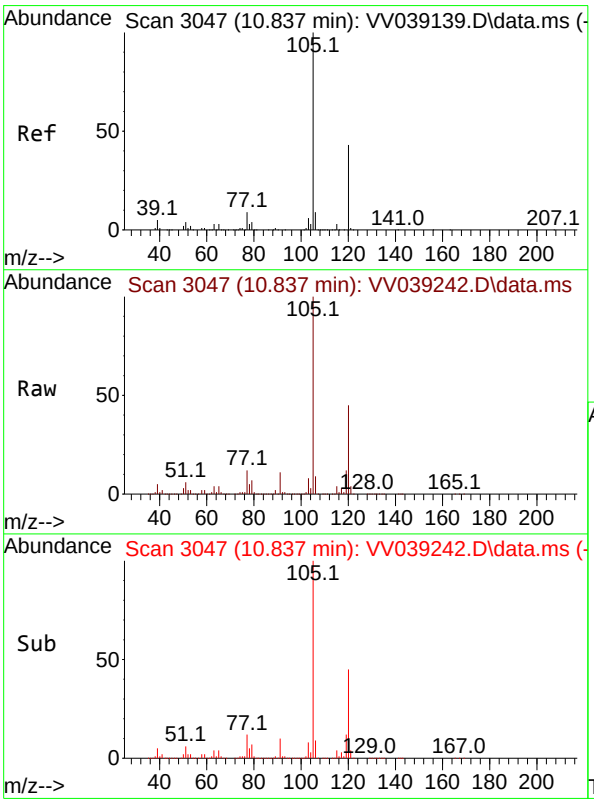
#83
tert-Butylbenzene
Concen: 52.950 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 1488535

Ion	Ratio	Lower	Upper
119	100		
91	55.5	28.5	85.6
134	22.7	11.5	34.4

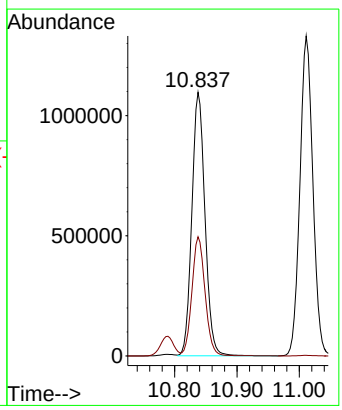


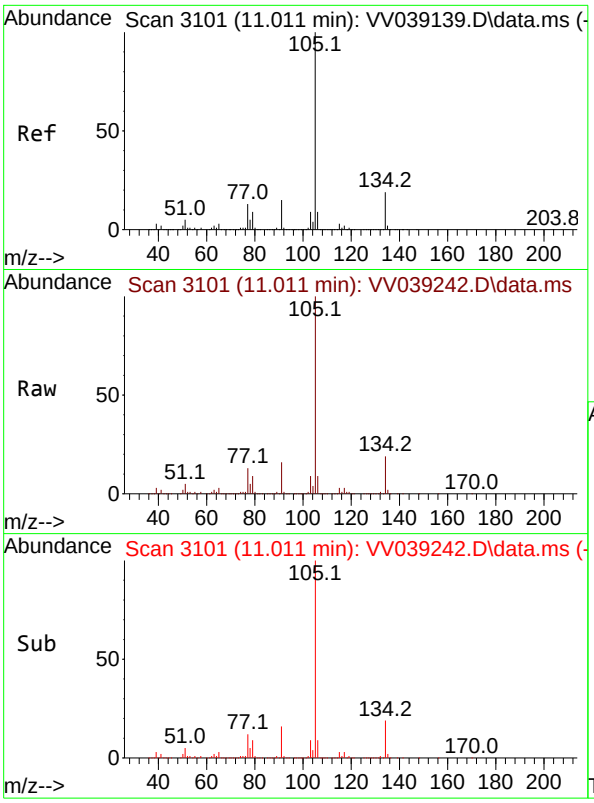


#84
1,2,4-Trimethylbenzene
Concen: 58.464 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:105 Resp: 1600180

Ion	Ratio	Lower	Upper
105	100		
120	45.5	22.4	67.2



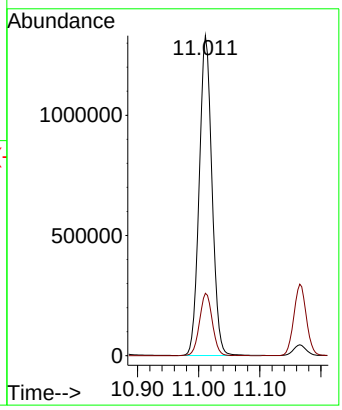


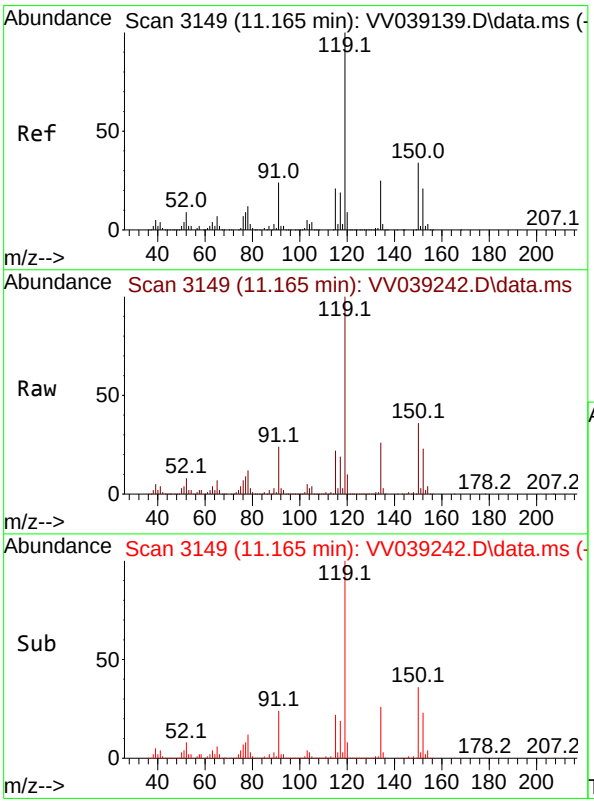
#85
sec-Butylbenzene
Concen: 51.585 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 1923460

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.6	28.8

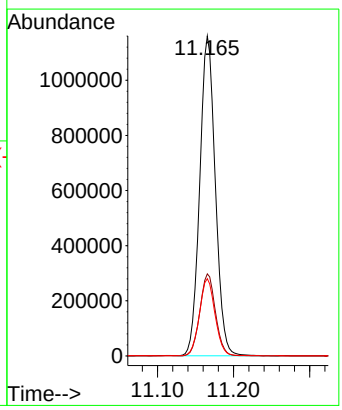


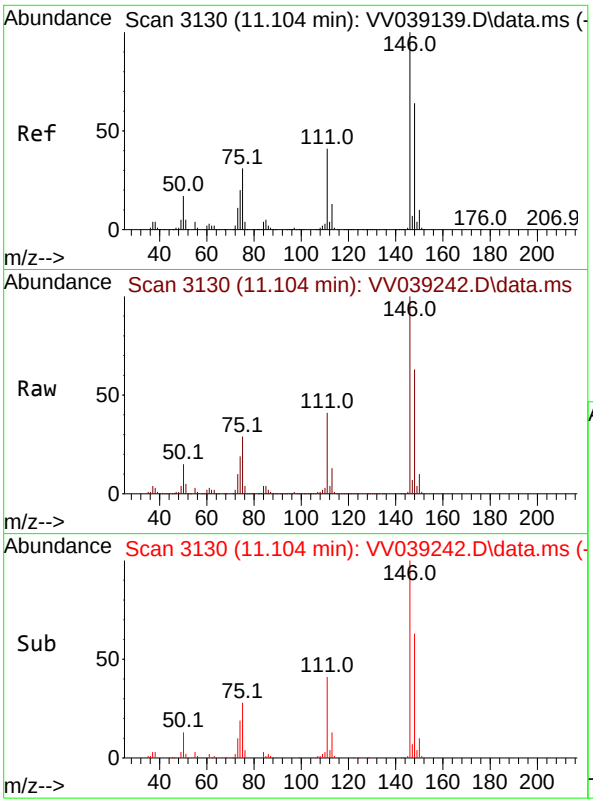


#86
p-Isopropyltoluene
Concen: 53.245 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:119 Resp: 1652409

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.7	38.0
91	24.0	12.0	36.1



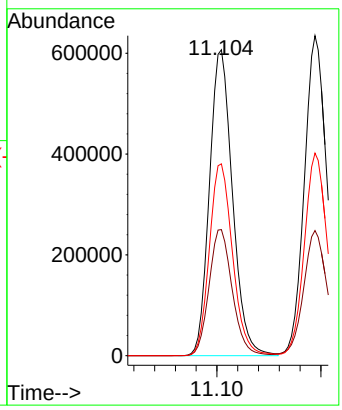


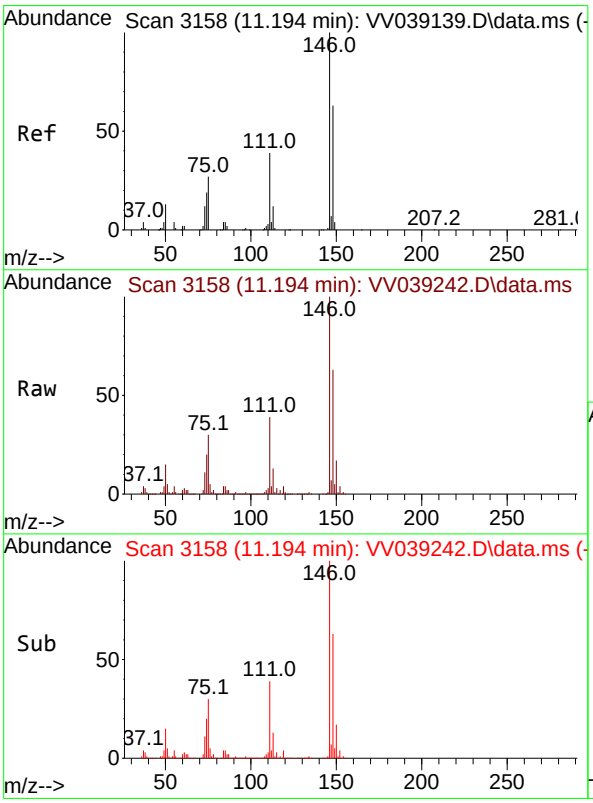
#87
1,3-Dichlorobenzene
Concen: 52.464 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 934365

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.9	62.8
148	63.4	31.8	95.3

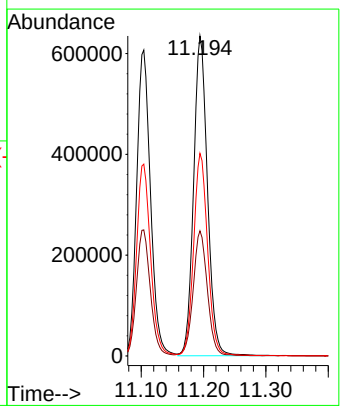


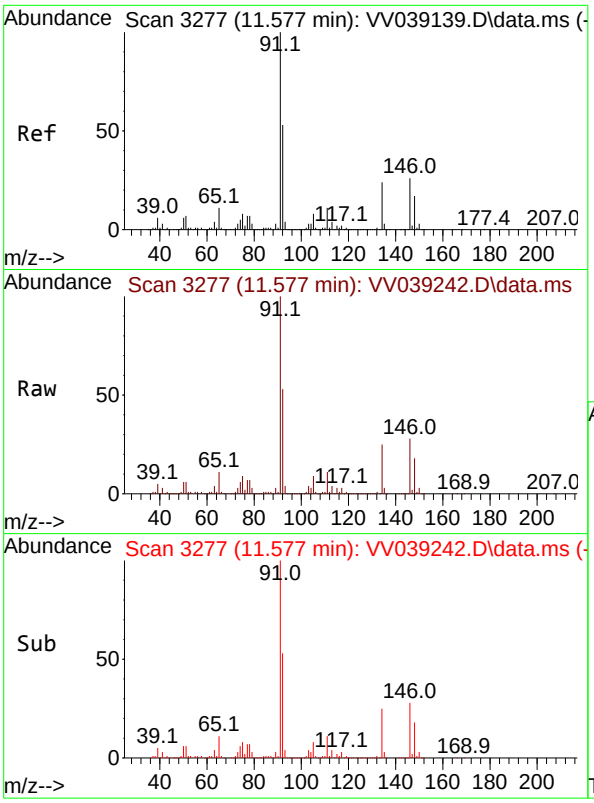


#88
1,4-Dichlorobenzene
Concen: 50.185 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:146 Resp: 980583

Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.3	60.8
148	63.8	31.4	94.2



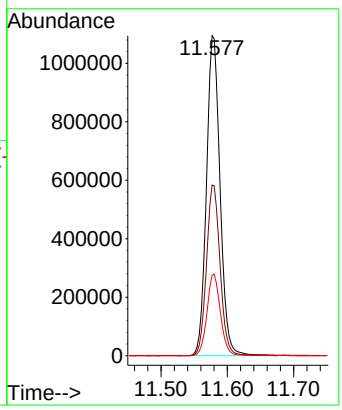


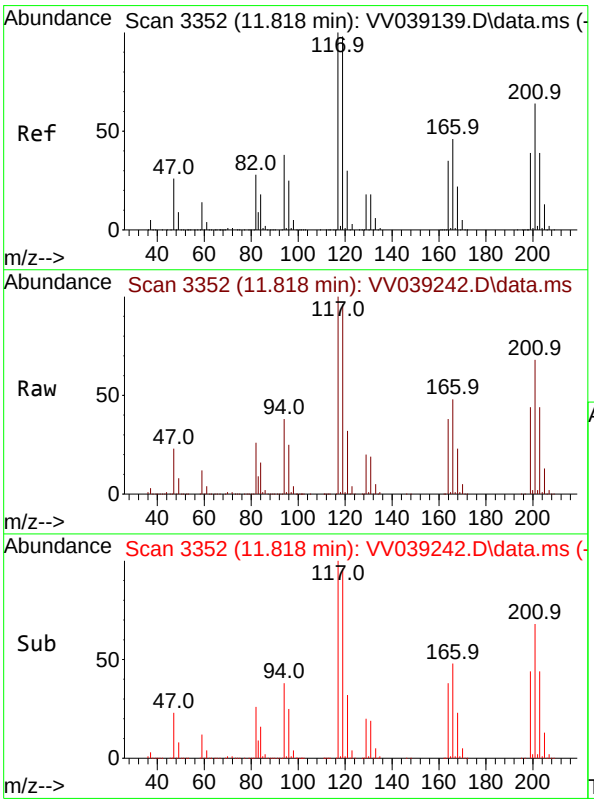
#89
n-Butylbenzene
Concen: 52.593 ug/l
RT: 11.577 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 1558810

Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.6	79.8
134	25.2	12.1	36.3

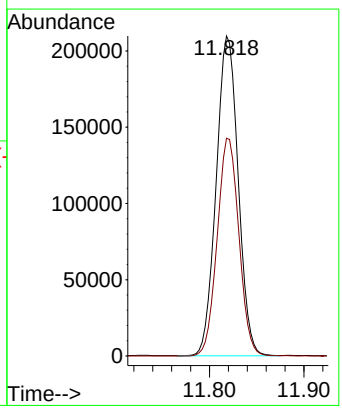


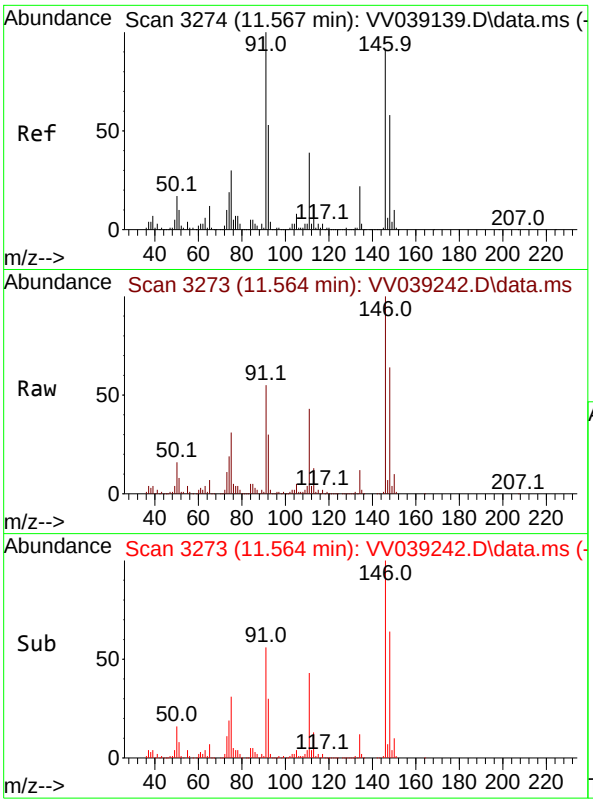


#90
Hexachloroethane
Concen: 44.374 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:117 Resp: 339116

Ion	Ratio	Lower	Upper
117	100		
201	67.1	32.3	96.8



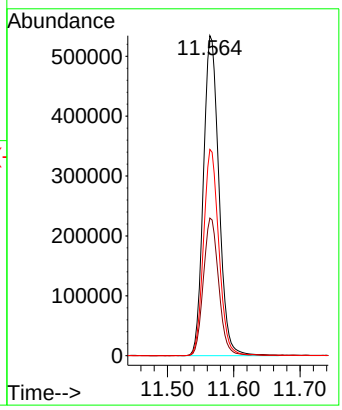


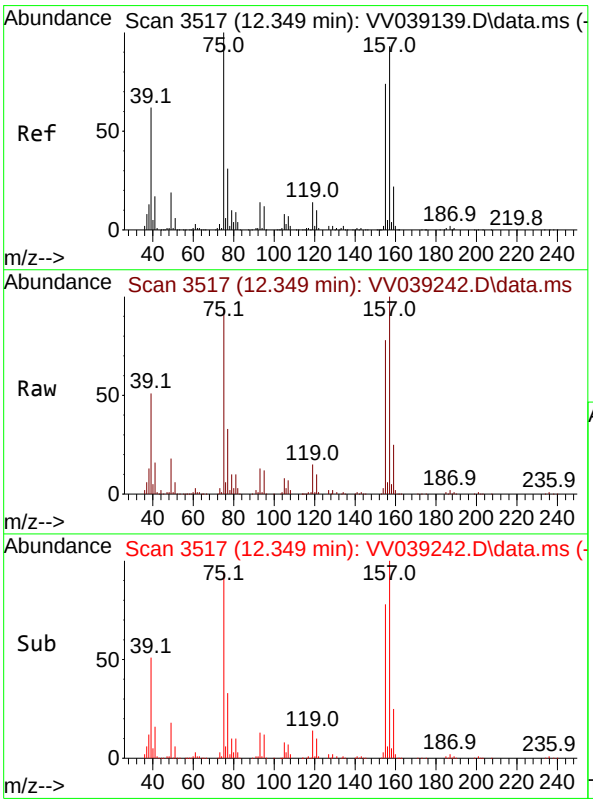
#91
1,2-Dichlorobenzene
Concen: 52.011 ug/l
RT: 11.564 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 865428

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	64.0	31.9	95.7

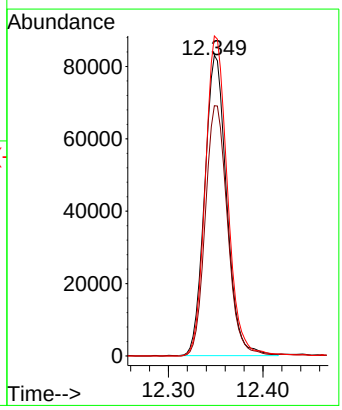


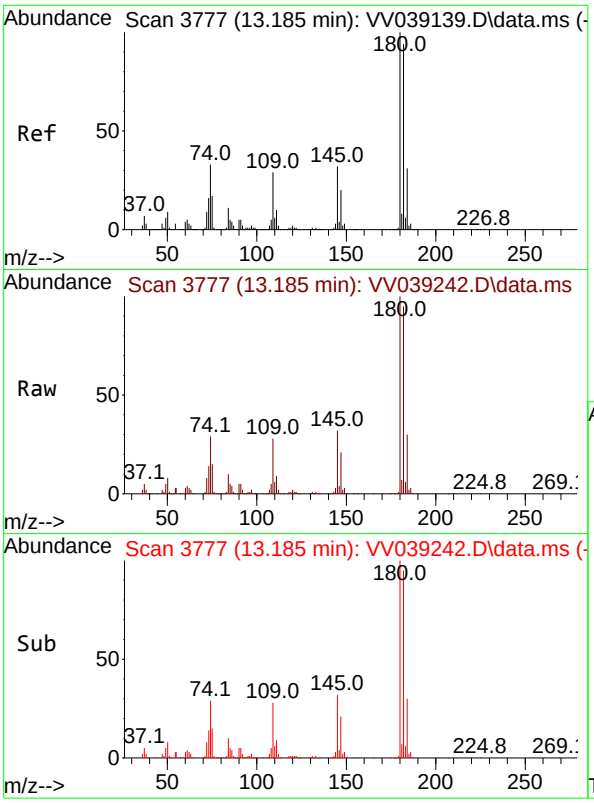


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.268 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion: 75 Resp: 134431

Ion	Ratio	Lower	Upper
75	100		
155	84.0	38.6	115.8
157	107.1	49.5	148.3



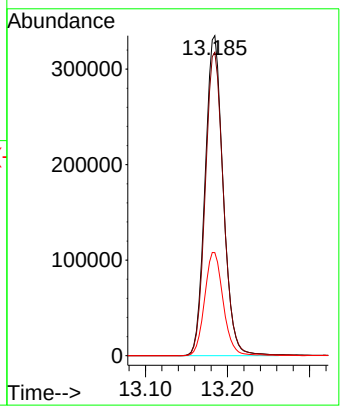


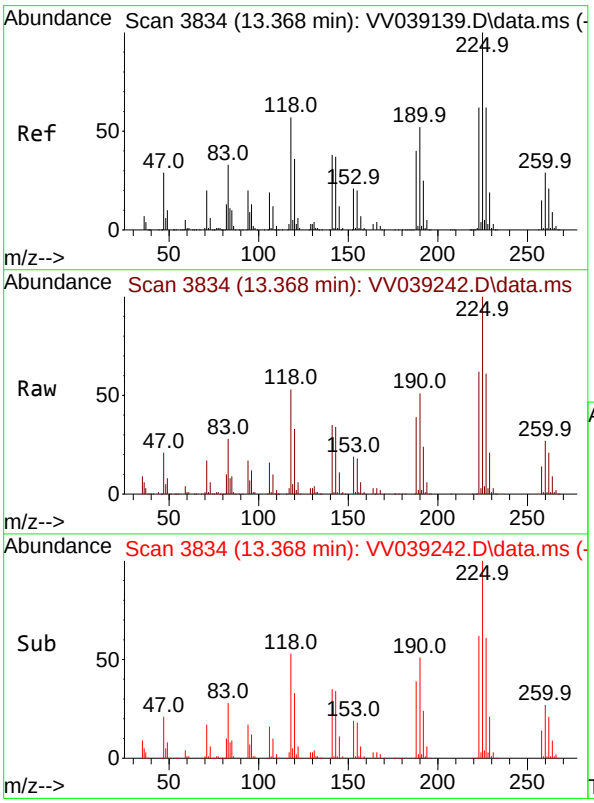
#93
1,2,4-Trichlorobenzene
Concen: 53.672 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 511938

Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.1	141.4
145	33.3	16.3	48.8

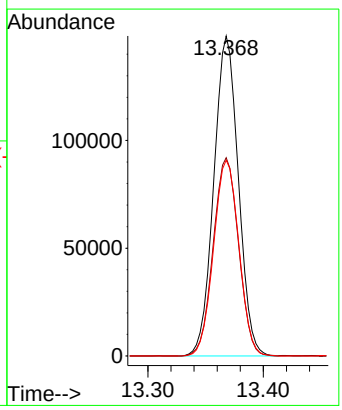


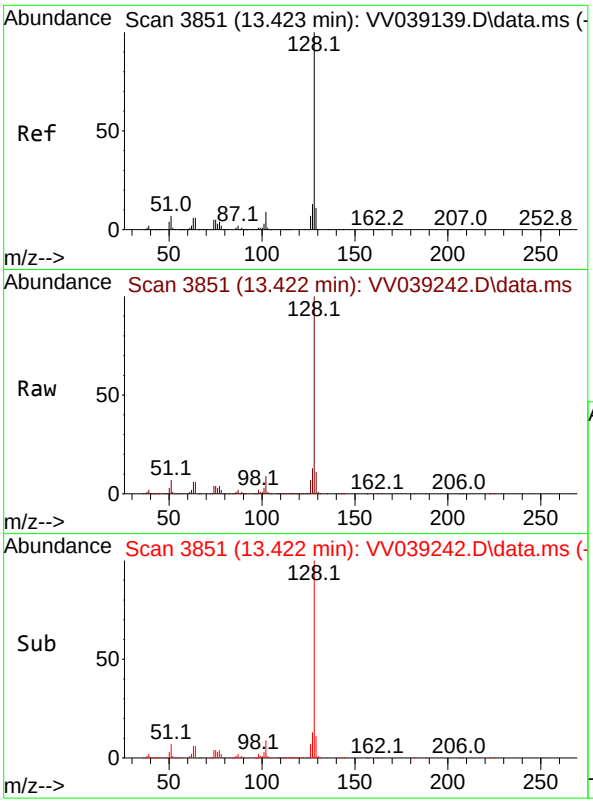


#94
Hexachlorobutadiene
Concen: 44.258 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:225 Resp: 219349

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.6	94.7
227	63.0	31.8	95.4



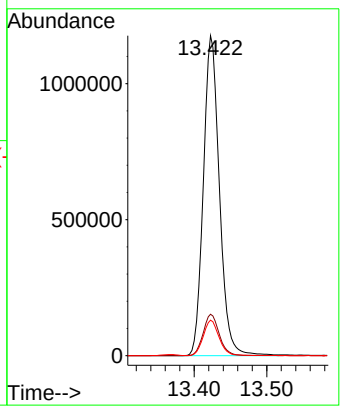


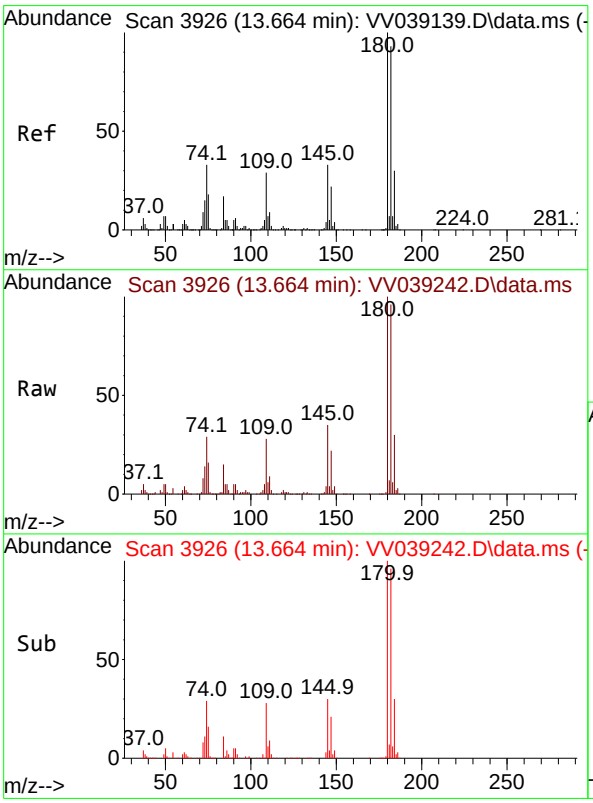
#95
Naphthalene
Concen: 58.802 ug/l
RT: 13.422 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 1812807

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.8	8.6	13.0

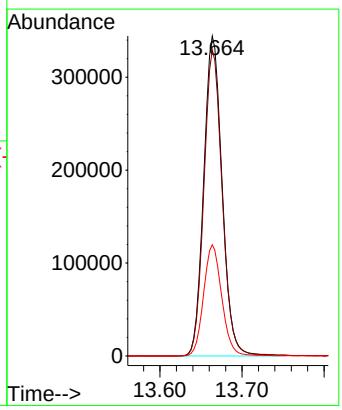




#96
1,2,3-Trichlorobenzene
Concen: 55.024 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. -0.000 min
Lab File: VV039242.D
Acq: 03 Oct 2025 08:53

Tgt Ion:180 Resp: 536779

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.9	140.8
145	34.4	17.0	51.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	90	0.00
2	T	Dichlorodifluoromethane	0.791	0.678	14.3	82	0.00
3	P	Chloromethane	0.850	0.705	17.1	82	0.00
4	C	Vinyl Chloride	0.910	0.797	12.4#	85	0.00
5	T	Bromomethane	0.573	0.524	8.6	92	0.00
6	T	Chloroethane	0.631	0.533	15.5	90	0.00
7	T	Trichlorofluoromethane	1.317	1.296	1.6	97	0.00
8	T	Diethyl Ether	0.489	0.475	2.9	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.784	0.780	0.5	100	0.00
10	T	Methyl Iodide	0.746	0.854	-14.5	97	0.00
11	T	Tert butyl alcohol	0.153	0.135	11.8	88	0.00
12	CM	1,1-Dichloroethene	0.754	0.737	2.3#	98	0.00
13	T	Acrolein	0.027	0.017	37.0#	57	0.00
14	T	Allyl chloride	1.347	1.215	9.8	88	0.00
15	T	Acrylonitrile	0.490	0.450	8.2	93	0.00
16	T	Acetone	0.523	0.465	11.1	93	0.00
17	T	Carbon Disulfide	2.306	1.914	17.0	82	0.00
18	T	Methyl Acetate	1.072	1.143	-6.6	104	0.00
19	T	Methyl tert-butyl Ether	2.402	2.433	-1.3	98	0.00
20	T	Methylene Chloride	1.066	0.842	21.0#	97	0.00
21	T	trans-1,2-Dichloroethene	0.803	0.776	3.4	96	0.00
22	T	Diisopropyl ether	2.576	2.431	5.6	86	0.00
23	T	Vinyl Acetate	2.254	2.045	9.3	83	0.00
24	P	1,1-Dichloroethane	1.576	1.470	6.7	95	0.00
25	T	2-Butanone	0.579	0.545	5.9	83	0.00
26	T	2,2-Dichloropropane	1.397	1.223	12.5	88	0.00
27	T	cis-1,2-Dichloroethene	0.885	0.850	4.0	88	0.00
28	T	Bromochloromethane	0.696	0.695	0.1	92	0.00
29	T	Tetrahydrofuran	0.363	0.342	5.8	83	0.00
30	C	Chloroform	1.645	1.541	6.3#	93	0.00
31	T	Cyclohexane	1.291	1.058	18.0	76	0.00
32	T	1,1,1-Trichloroethane	1.424	1.326	6.9	92	0.00
33	S	1,2-Dichloroethane-d4	0.724	0.604	16.6	84	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	80	0.00
35	S	Dibromofluoromethane	0.402	0.442	-10.0	94	0.00
36	T	1,1-Dichloropropene	0.608	0.665	-9.4	86	0.00
37	T	Ethyl Acetate	0.737	0.722	2.0	81	0.00
38	T	Carbon Tetrachloride	0.743	0.816	-9.8	93	0.00
39	T	Methylcyclohexane	0.734	0.753	-2.6	73	0.00
40	TM	Benzene	1.979	2.157	-9.0	87	0.00
41	T	Methacrylonitrile	0.273	0.335	-22.7#	81	0.00
42	TM	1,2-Dichloroethane	0.693	0.737	-6.3	89	0.00
43	T	Isopropyl Acetate	1.005	1.092	-8.7	82	0.00
44	TM	Trichloroethene	0.457	0.530	-16.0	92	0.00
45	C	1,2-Dichloropropane	0.492	0.557	-13.2#	89	0.00
46	T	Dibromomethane	0.376	0.419	-11.4	91	0.00
47	T	Bromodichloromethane	0.778	0.870	-11.8	93	0.00
48	T	Methyl methacrylate	0.456	0.501	-9.9	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.008	-14.3	81	0.00
50	S	Toluene-d8	1.181	1.194	-1.1	84	0.00
51	T	4-Methyl-2-Pentanone	0.661	0.770	-16.5	84	0.00
52	CM	Toluene	1.147	1.390	-21.2#	91	0.00
53	T	t-1,3-Dichloropropene	0.678	0.811	-19.6	89	0.00
54	T	cis-1,3-Dichloropropene	0.749	0.891	-19.0	88	0.00
55	T	1,1,2-Trichloroethane	0.514	0.596	-16.0	97	0.00
56	T	Ethyl methacrylate	0.611	0.775	-26.8#	87	0.00
57	T	1,3-Dichloropropane	0.812	0.941	-15.9	92	0.00
58	T	2-Chloroethyl Vinyl ether	0.267	0.332	-24.3#	75	0.00
59	T	2-Hexanone	0.463	0.579	-25.1#	85	0.00
60	T	Dibromochloromethane	0.586	0.698	-19.1	99	0.00
61	T	1,2-Dibromoethane	0.526	0.621	-18.1	94	0.00
62	S	4-Bromofluorobenzene	0.486	0.586	-20.6#	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64	T	Tetrachloroethene	0.419	0.472	-12.6	95	0.00
65	PM	Chlorobenzene	1.393	1.546	-11.0	93	0.00
66	T	1,1,1,2-Tetrachloroethane	0.503	0.582	-15.7	99	0.00
67	C	Ethyl Benzene	2.108	2.531	-20.1#	88	0.00
68	T	m/p-Xylenes	0.814	1.051	-29.1#	92	0.00
69	T	o-Xylene	0.720	0.926	-28.6#	91	0.00
70	T	Styrene	1.263	1.770	-40.1#	95	0.00
71	P	Bromoform	0.393	0.490	-24.7#	103	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73	T	Isopropylbenzene	3.627	3.916	-8.0	90	0.00
74	T	N-amyl acetate	1.447	1.547	-6.9	84	0.00
75	P	1,1,2,2-Tetrachloroethane	1.589	1.472	7.4	94	0.00
76	T	1,2,3-Trichloropropane	1.138	1.053	7.5	91	0.00
77	T	Bromobenzene	0.941	1.001	-6.4	98	0.00
78	T	n-propylbenzene	4.416	4.777	-8.2	88	0.00
79	T	2-Chlorotoluene	2.643	2.884	-9.1	92	0.00
80	T	1,3,5-Trimethylbenzene	3.014	3.407	-13.0	91	0.00
81	T	trans-1,4-Dichloro-2-butene	0.474	0.497	-4.9	91	0.00
82	T	4-Chlorotoluene	3.064	3.456	-12.8	94	0.00
83	T	tert-Butylbenzene	3.006	3.183	-5.9	89	0.00
84	T	1,2,4-Trimethylbenzene	2.926	3.422	-17.0	92	0.00
85	T	sec-Butylbenzene	3.987	4.113	-3.2	85	0.00
86	T	p-Isopropyltoluene	3.318	3.534	-6.5	87	0.00
87	T	1,3-Dichlorobenzene	1.904	1.998	-4.9	97	0.00
88	T	1,4-Dichlorobenzene	2.089	2.097	-0.4	98	0.00
89	T	n-Butylbenzene	3.169	3.333	-5.2	84	0.00
90	T	Hexachloroethane	0.817	0.725	11.3	90	0.00
91	T	1,2-Dichlorobenzene	1.779	1.851	-4.0	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.330	0.287	13.0	91	0.00
93	T	1,2,4-Trichlorobenzene	1.020	1.095	-7.4	92	0.00
94	T	Hexachlorobutadiene	0.530	0.469	11.5	89	0.00
95	T	Naphthalene	3.296	3.877	-17.6	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.043	1.148	-10.1	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	90	0.00
2	T	Dichlorodifluoromethane	50.000	42.846	14.3	82	0.00
3	P	Chloromethane	50.000	41.489	17.0	82	0.00
4	C	Vinyl Chloride	50.000	43.819	12.4#	85	0.00
5	T	Bromomethane	50.000	45.671	8.7	92	0.00
6	T	Chloroethane	50.000	49.756	0.5	90	0.00
7	T	Trichlorofluoromethane	50.000	49.210	1.6	97	0.00
8	T	Diethyl Ether	50.000	48.601	2.8	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.765	0.5	100	0.00
10	T	Methyl Iodide	50.000	57.201	-14.4	97	0.00
11	T	Tert butyl alcohol	250.000	220.472	11.8	88	0.00
12	CM	1,1-Dichloroethene	50.000	48.853	2.3#	98	0.00
13	T	Acrolein	250.000	158.748	36.5#	57	0.00
14	T	Allyl chloride	50.000	45.110	9.8	88	0.00
15	T	Acrylonitrile	250.000	229.692	8.1	93	0.00
16	T	Acetone	250.000	261.128	-4.5	93	0.00
17	T	Carbon Disulfide	50.000	41.510	17.0	82	0.00
18	T	Methyl Acetate	50.000	53.306	-6.6	104	0.00
19	T	Methyl tert-butyl Ether	50.000	50.644	-1.3	98	0.00
20	T	Methylene Chloride	50.000	54.174	-8.3	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.346	3.3	96	0.00
22	T	Diisopropyl ether	50.000	47.173	5.7	86	0.00
23	T	Vinyl Acetate	250.000	226.848	9.3	83	0.00
24	P	1,1-Dichloroethane	50.000	46.651	6.7	95	0.00
25	T	2-Butanone	250.000	235.085	6.0	83	0.00
26	T	2,2-Dichloropropane	50.000	43.784	12.4	88	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.015	4.0	88	0.00
28	T	Bromochloromethane	50.000	49.928	0.1	92	0.00
29	T	Tetrahydrofuran	250.000	235.626	5.7	83	0.00
30	C	Chloroform	50.000	46.845	6.3#	93	0.00
31	T	Cyclohexane	50.000	40.990	18.0	76	0.00
32	T	1,1,1-Trichloroethane	50.000	46.532	6.9	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	41.751	16.5	84	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	80	0.00
35	S	Dibromofluoromethane	50.000	55.012	-10.0	94	0.00
36	T	1,1-Dichloropropene	50.000	54.703	-9.4	86	0.00
37	T	Ethyl Acetate	50.000	48.933	2.1	81	0.00
38	T	Carbon Tetrachloride	50.000	54.914	-9.8	93	0.00
39	T	Methylcyclohexane	50.000	51.283	-2.6	73	0.00
40	TM	Benzene	50.000	54.504	-9.0	87	0.00
41	T	Methacrylonitrile	50.000	50.227	-0.5	81	0.00
42	TM	1,2-Dichloroethane	50.000	53.160	-6.3	89	0.00
43	T	Isopropyl Acetate	50.000	54.281	-8.6	82	0.00
44	TM	Trichloroethene	50.000	57.993	-16.0	92	0.00
45	C	1,2-Dichloropropane	50.000	56.590	-13.2#	89	0.00
46	T	Dibromomethane	50.000	55.683	-11.4	91	0.00
47	T	Bromodichloromethane	50.000	55.859	-11.7	93	0.00
48	T	Methyl methacrylate	50.000	55.003	-10.0	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1030.978	-3.1	81	0.00
50	S	Toluene-d8	50.000	50.551	-1.1	84	0.00
51	T	4-Methyl-2-Pentanone	250.000	290.997	-16.4	84	0.00
52	CM	Toluene	50.000	60.564	-21.1#	91	0.00
53	T	t-1,3-Dichloropropene	50.000	59.756	-19.5	89	0.00
54	T	cis-1,3-Dichloropropene	50.000	59.500	-19.0	88	0.00
55	T	1,1,2-Trichloroethane	50.000	57.949	-15.9	97	0.00
56	T	Ethyl methacrylate	50.000	63.413	-26.8#	87	0.00
57	T	1,3-Dichloropropane	50.000	57.955	-15.9	92	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	240.718	3.7	75	0.00
59	T	2-Hexanone	250.000	270.676	-8.3	85	0.00
60	T	Dibromochloromethane	50.000	59.550	-19.1	99	0.00
61	T	1,2-Dibromoethane	50.000	59.030	-18.1	94	0.00
62	S	4-Bromofluorobenzene	50.000	60.326	-20.7#	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64	T	Tetrachloroethene	50.000	56.385	-12.8	95	0.00
65	PM	Chlorobenzene	50.000	55.521	-11.0	93	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	57.876	-15.8	99	0.00
67	C	Ethyl Benzene	50.000	60.034	-20.1#	88	0.00
68	T	m/p-Xylenes	100.000	129.107	-29.1#	92	0.00
69	T	o-Xylene	50.000	64.270	-28.5#	91	0.00
70	T	Styrene	50.000	57.814	-15.6	95	0.00
71	P	Bromoform	50.000	62.277	-24.6#	103	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73	T	Isopropylbenzene	50.000	53.992	-8.0	90	0.00
74	T	N-amyl acetate	50.000	53.488	-7.0	84	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.331	7.3	94	0.00
76	T	1,2,3-Trichloropropane	50.000	46.268	7.5	91	0.00
77	T	Bromobenzene	50.000	53.208	-6.4	98	0.00
78	T	n-propylbenzene	50.000	54.089	-8.2	88	0.00
79	T	2-Chlorotoluene	50.000	54.565	-9.1	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.508	-13.0	91	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.378	-4.8	91	0.00
82	T	4-Chlorotoluene	50.000	56.397	-12.8	94	0.00
83	T	tert-Butylbenzene	50.000	52.950	-5.9	89	0.00
84	T	1,2,4-Trimethylbenzene	50.000	58.464	-16.9	92	0.00
85	T	sec-Butylbenzene	50.000	51.585	-3.2	85	0.00
86	T	p-Isopropyltoluene	50.000	53.245	-6.5	87	0.00
87	T	1,3-Dichlorobenzene	50.000	52.464	-4.9	97	0.00
88	T	1,4-Dichlorobenzene	50.000	50.185	-0.4	98	0.00
89	T	n-Butylbenzene	50.000	52.593	-5.2	84	0.00
90	T	Hexachloroethane	50.000	44.374	11.3	90	0.00
91	T	1,2-Dichlorobenzene	50.000	52.011	-4.0	96	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.268	-0.5	91	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.672	-7.3	92	0.00
94	T	Hexachlorobutadiene	50.000	44.258	11.5	89	0.00
95	T	Naphthalene	50.000	58.802	-17.6	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039242.D
Acq On : 03 Oct 2025 08:53
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
LabSampleId :
VSTDCCC050

Quant Time: Oct 08 07:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	55.024	-10.0	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

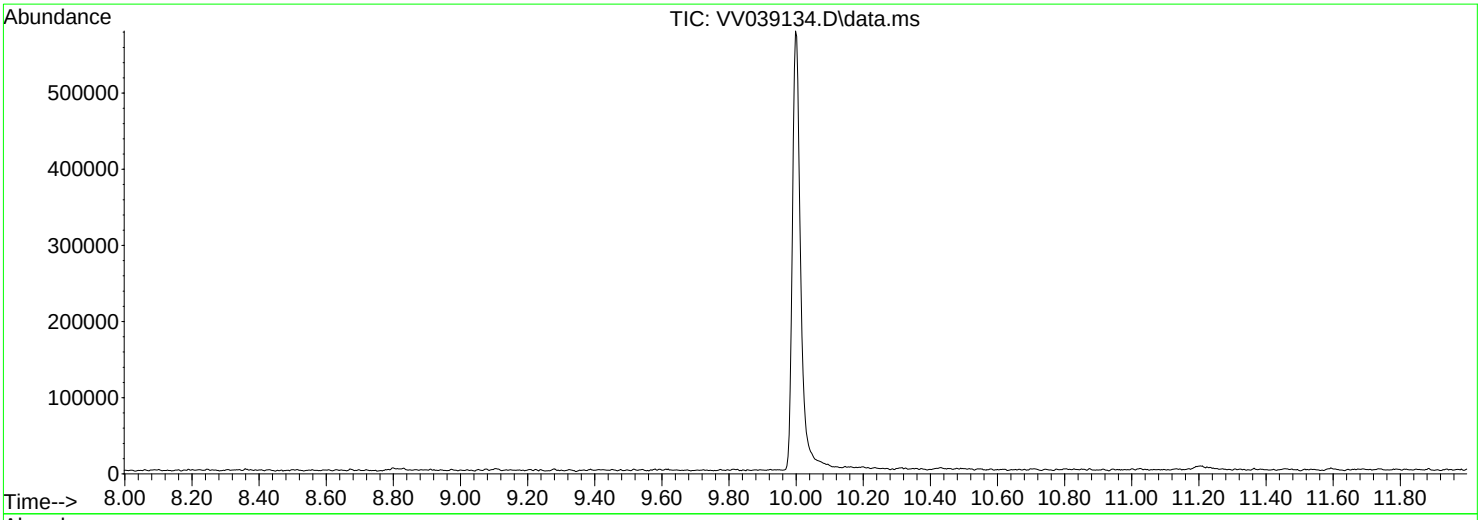
QC SAMPLE DATA

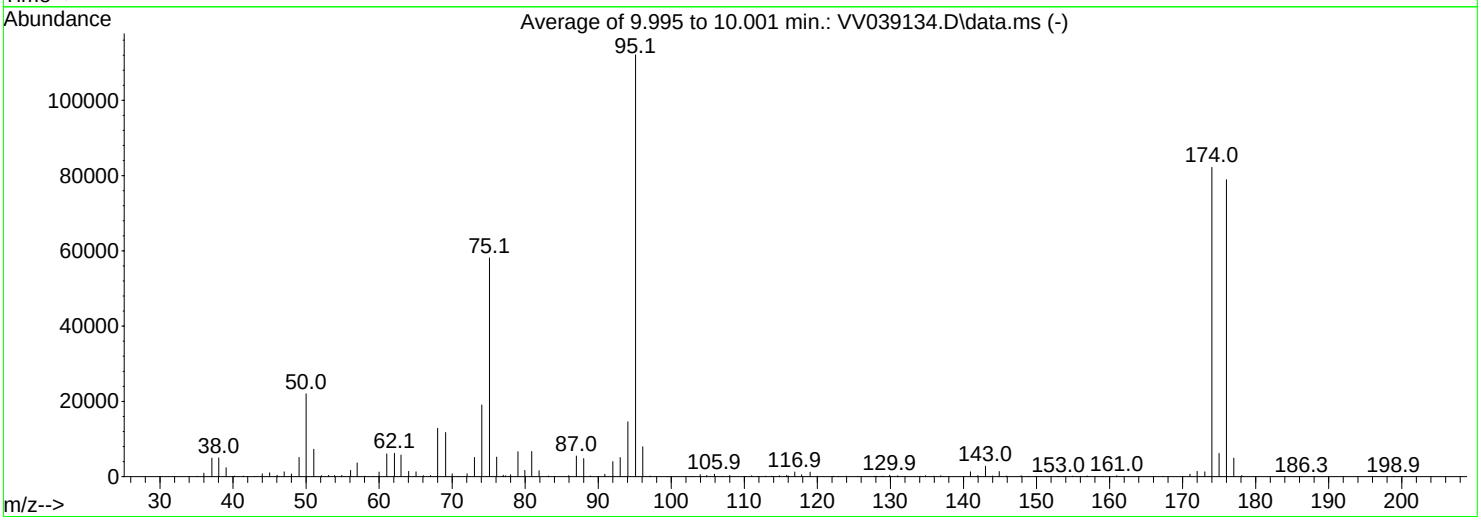
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039134.D
Acq On : 22 Sep 2025 10:15
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025





AutoFind: Scans 2785, 2786, 2787; Background Corrected with Scan 2774

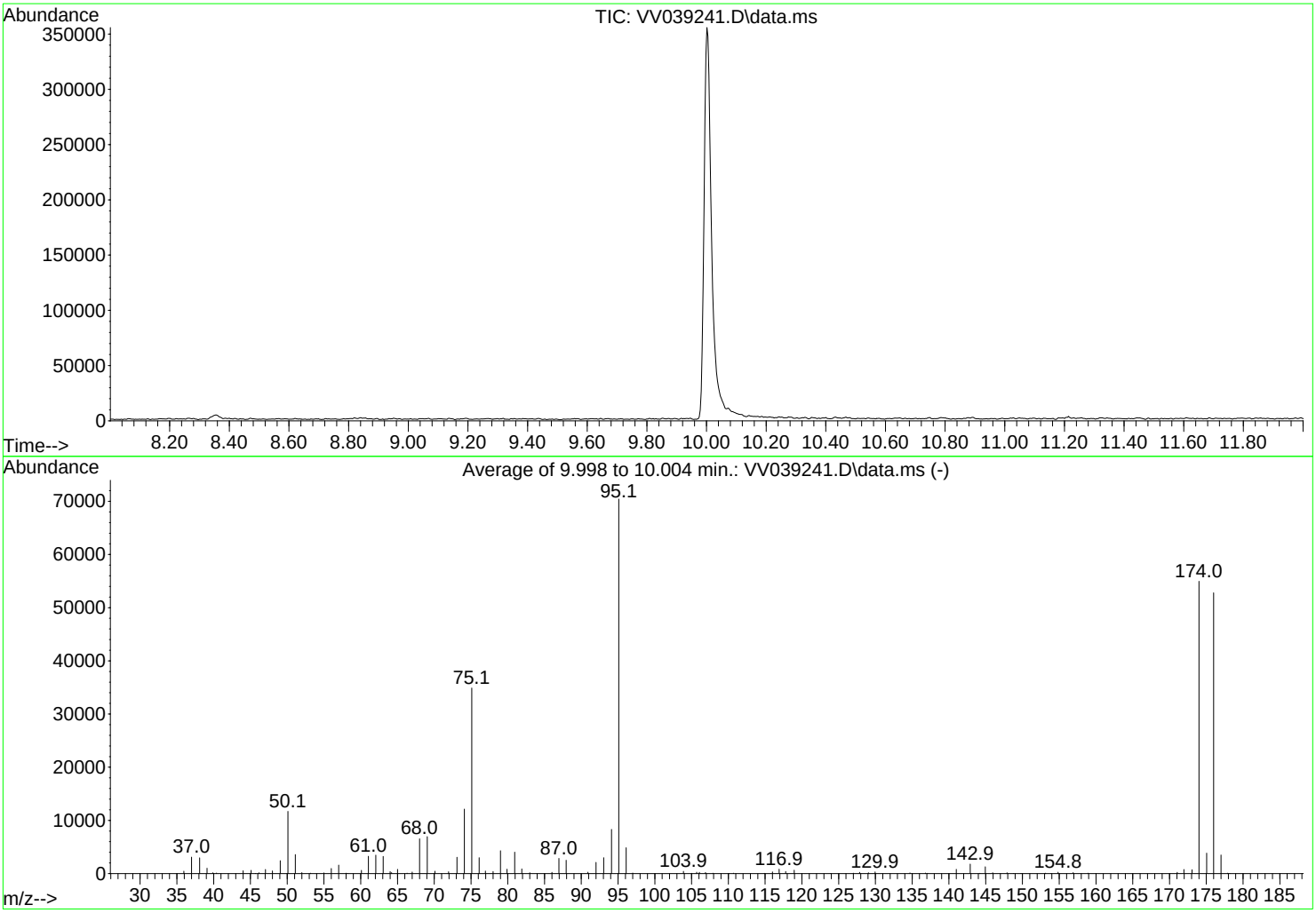
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	22014	PASS
75	95	30	60	51.9	58147	PASS
95	95	100	100	100.0	112096	PASS
96	95	5	9	7.1	7955	PASS
173	174	0.00	2	1.6	1275	PASS
174	95	50	100	73.3	82200	PASS
175	174	5	9	7.5	6152	PASS
176	174	95	101	96.0	78917	PASS
177	176	5	9	6.3	4933	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039241.D
Acq On : 03 Oct 2025 08:26
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025



AutoFind: Scans 2786, 2787, 2788; Background Corrected with Scan 2775

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	11702	PASS
75	95	30	60	49.5	34896	PASS
95	95	100	100	100.0	70432	PASS
96	95	5	9	6.9	4879	PASS
173	174	0.00	2	1.3	733	PASS
174	95	50	100	78.0	54968	PASS
175	174	5	9	7.0	3851	PASS
176	174	95	101	96.0	52784	PASS
177	176	5	9	6.6	3489	PASS

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBL01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039244.D	1	10/03/25 11:26	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	1.00	U	0.26	1.00	ug/L
75-00-3	Chloroethane	1.00	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.23	1.00	ug/L
107-13-1	Acrylonitrile	5.00	U	0.83	5.00	ug/L
67-64-1	Acetone	5.00	U	1.50	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.21	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.28	1.00	ug/L
108-05-4	Vinyl Acetate	5.00	U	0.66	5.00	ug/L
78-93-3	2-Butanone	5.00	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.22	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.20	1.00	ug/L
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.20	1.00	ug/L
74-95-3	Dibromomethane	1.00	U	0.25	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.68	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.16	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	1.00	U	0.19	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBL01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039244.D	1	10/03/25 11:26	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
100-42-5	Styrene	1.00	U	0.15	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.00	U	0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.53	1.00	ug/L
74-88-4	Methyl Iodide	5.00	U	0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	5.00	U	0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	44.6		86 - 113	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.2		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	502000	4.6			
540-36-3	1,4-Difluorobenzene	854000	5.532			
3114-55-4	Chlorobenzene-d5	854000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	433000	11.172			

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_V\DATA\VV100325\
Data File : VV039244.D
Acq On : 03 Oct 2025 11:26
Operator : SY/MD
Sample : VV1003WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Quant Time: Oct 04 01:08:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

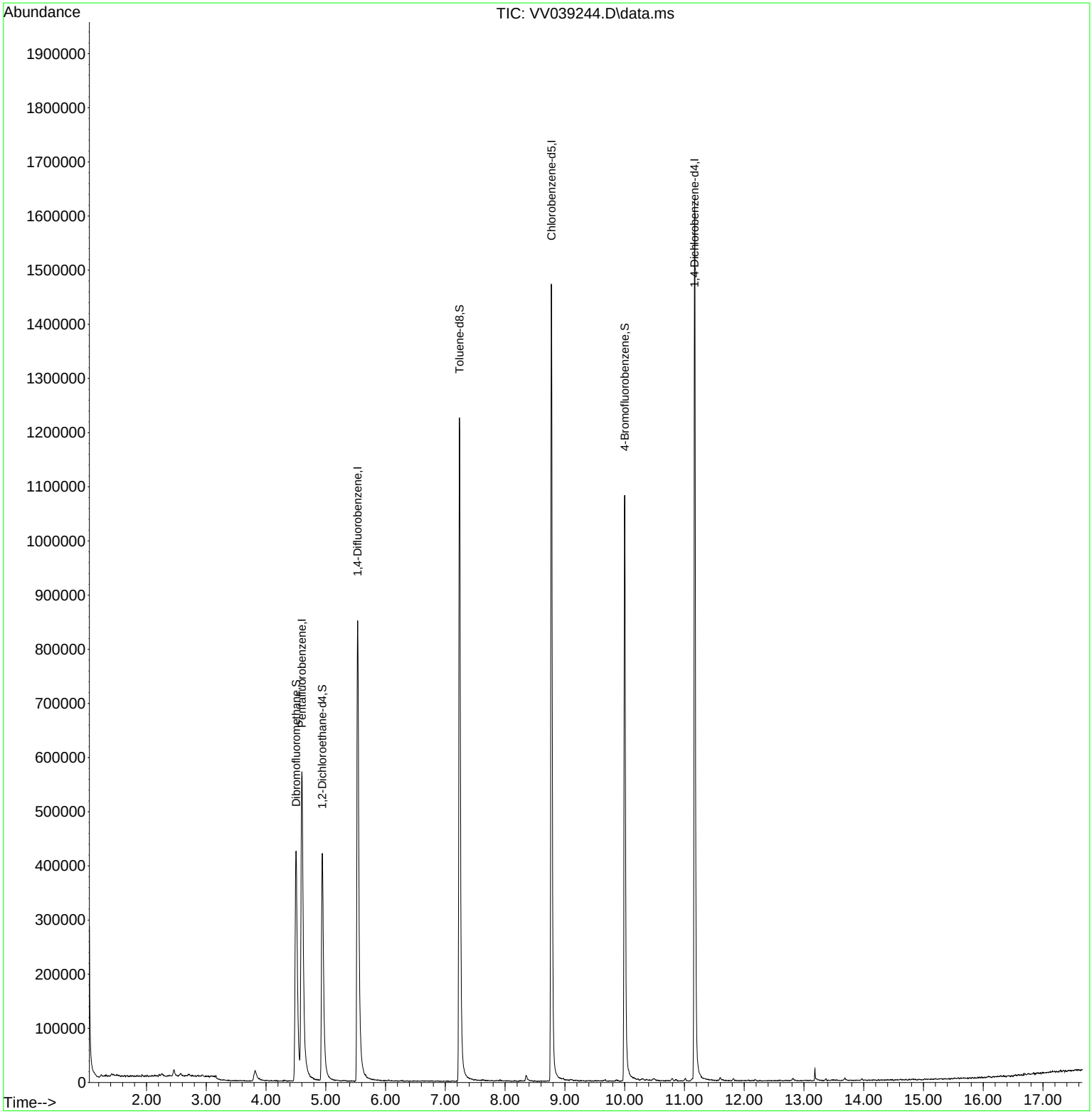
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	501875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	854024	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	854306	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	433083	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	375765	51.732	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 103.460%			
35) Dibromofluoromethane	4.503	113	360439	52.499	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 105.000%			
50) Toluene-d8	7.236	98	900252	44.645	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 89.300%			
62) 4-Bromofluorobenzene	10.001	95	374884	45.160	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.320%			
Target Compounds						Qvalue

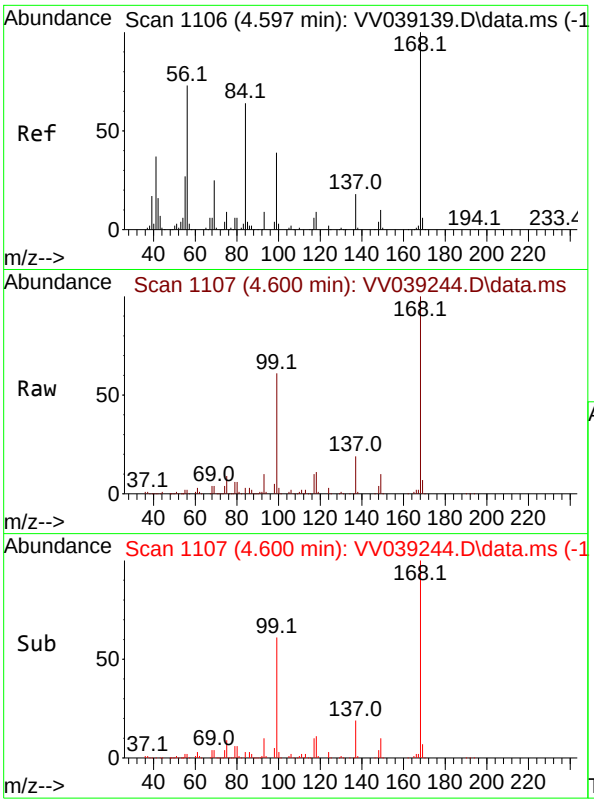
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039244.D
Acq On : 03 Oct 2025 11:26
Operator : SY/MD
Sample : VV1003WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Quant Time: Oct 04 01:08:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



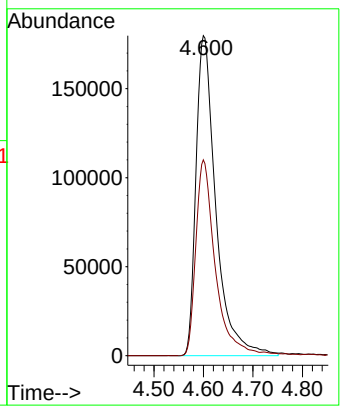


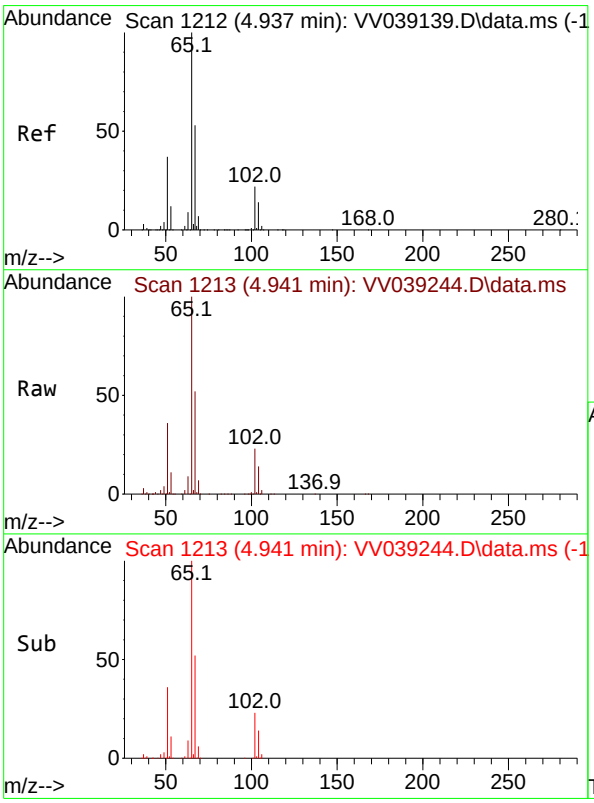
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Tgt Ion:168 Resp: 501875

Ion	Ratio	Lower	Upper
168	100		
99	61.2	49.6	74.4

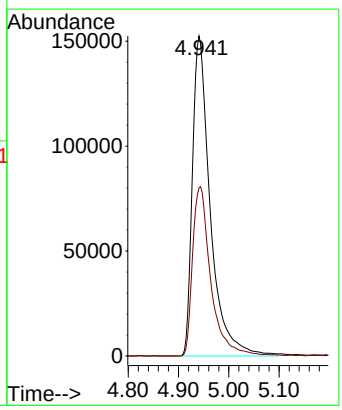


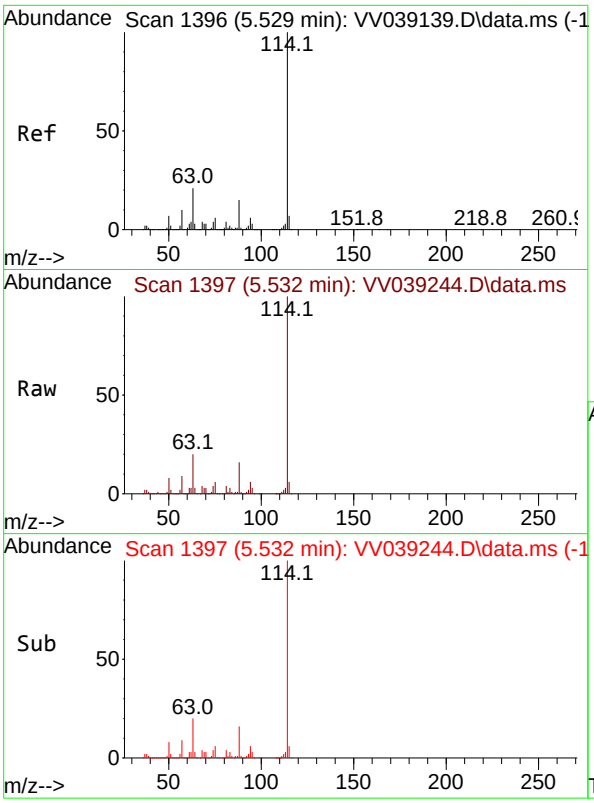


#33
1,2-Dichloroethane-d4
Concen: 51.732 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Tgt Ion: 65 Resp: 375765

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	107.0



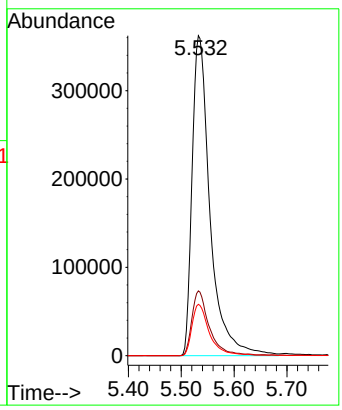


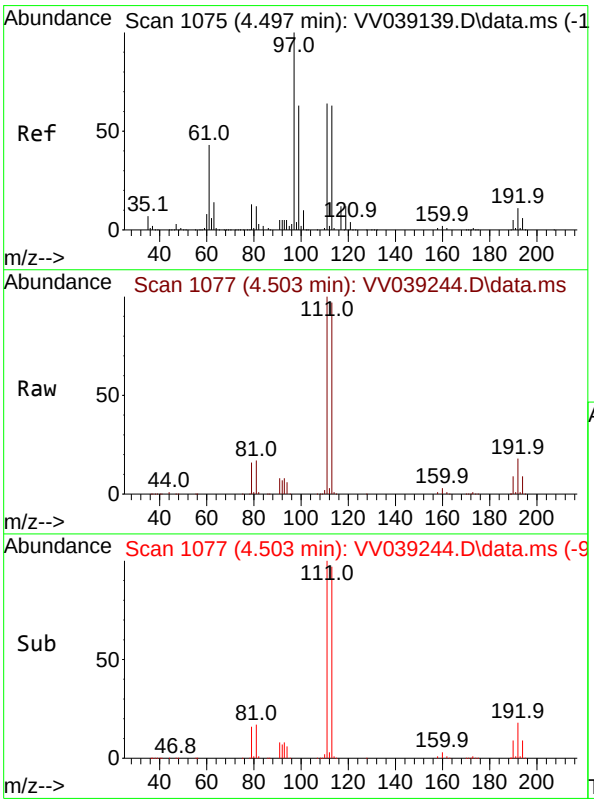
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Tgt Ion:114 Resp: 854024

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	16.0	0.0	30.8

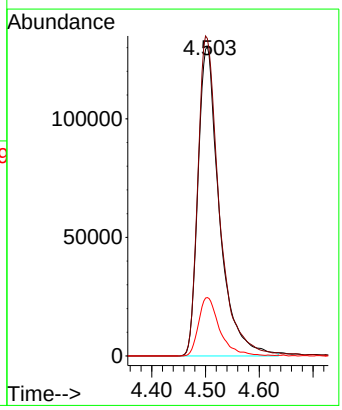


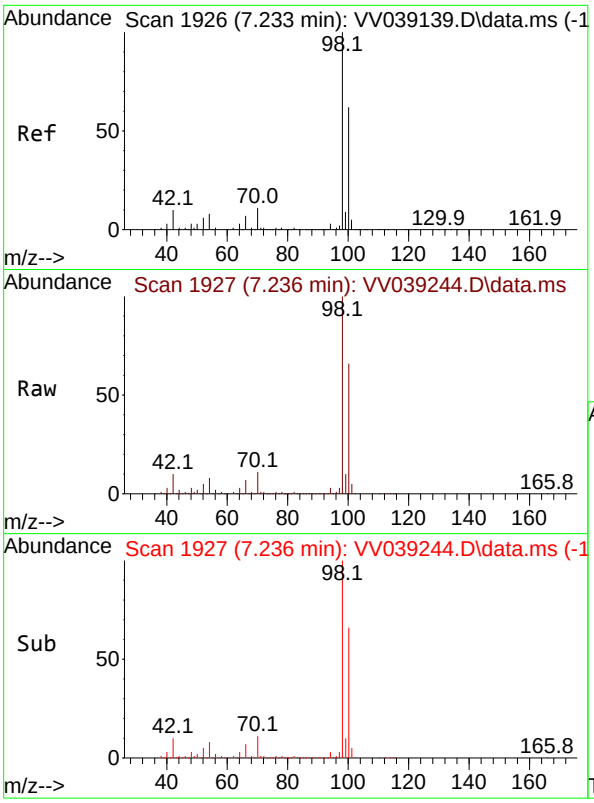


#35
Dibromofluoromethane
Concen: 52.499 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Tgt Ion:113 Resp: 360439

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	18.6	13.8	20.8



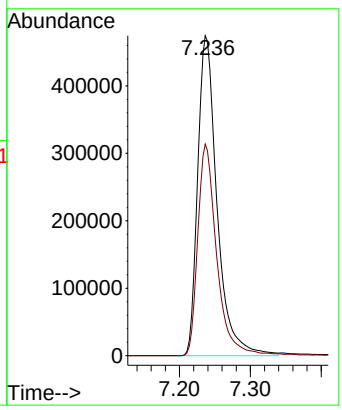


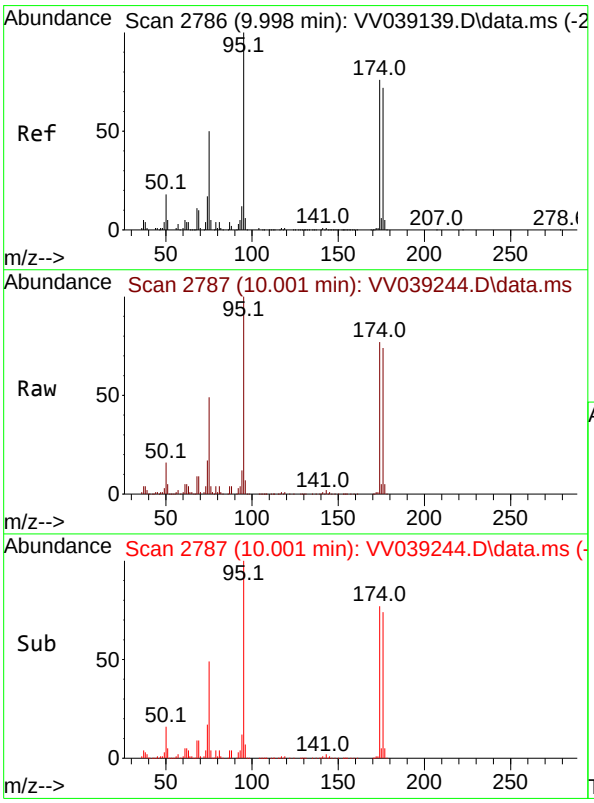
#50
Toluene-d8
Concen: 44.645 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Tgt Ion: 98 Resp: 900252

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.2

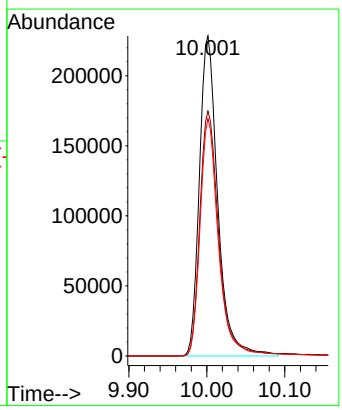


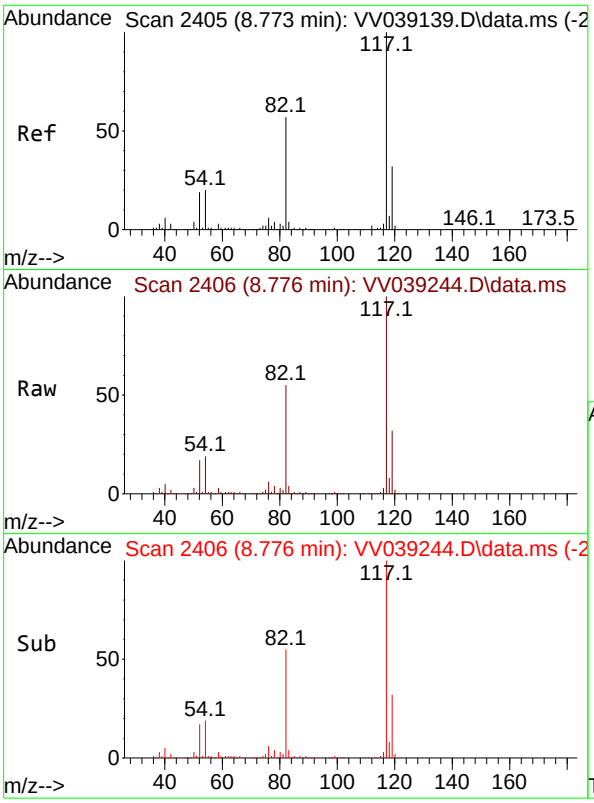


#62
4-Bromofluorobenzene
Concen: 45.160 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Tgt Ion: 95 Resp: 374884

Ion	Ratio	Lower	Upper
95	100		
174	79.2	0.0	150.4
176	74.2	0.0	144.2



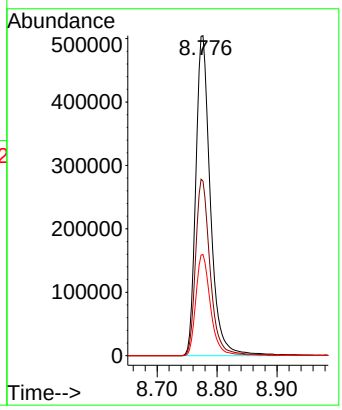


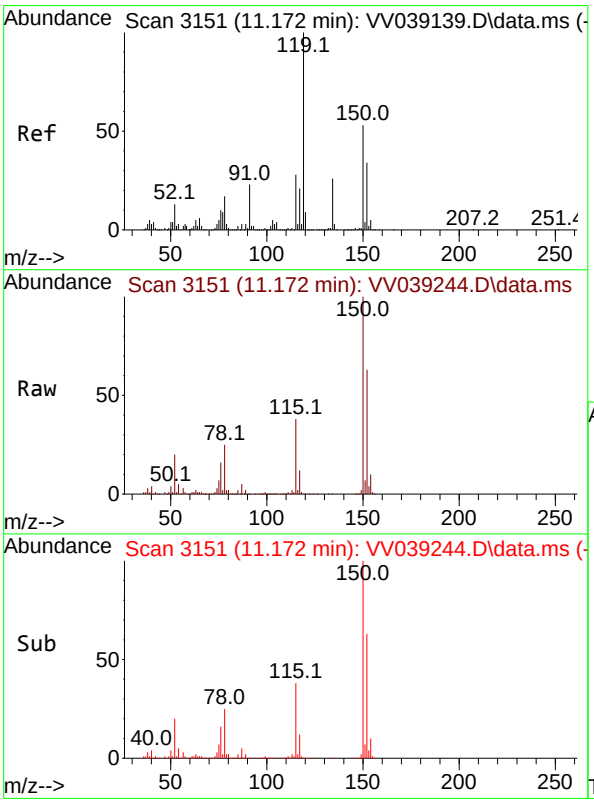
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBL01

Tgt Ion:117 Resp: 854306

Ion	Ratio	Lower	Upper
117	100		
82	54.6	45.4	68.2
119	31.6	25.6	38.4

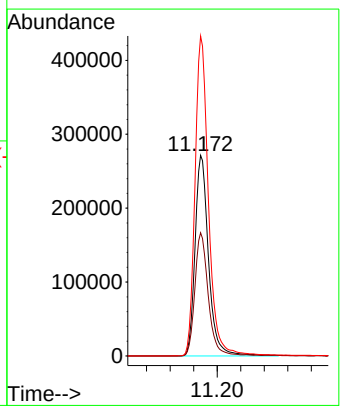




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039244.D
Acq: 03 Oct 2025 11:26

Tgt Ion:152 Resp: 433083

Ion	Ratio	Lower	Upper
152	100		
115	60.6	44.8	134.4
150	159.3	0.0	353.8



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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBS01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039245.D	1	10/03/25 13:07	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.5		0.26	1.00	ug/L
75-00-3	Chloroethane	18.1		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.1		0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.23	1.00	ug/L
107-13-1	Acrylonitrile	88.9		0.83	5.00	ug/L
67-64-1	Acetone	91.0		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	16.0		0.21	1.00	ug/L
75-09-2	Methylene Chloride	19.9		0.28	1.00	ug/L
108-05-4	Vinyl Acetate	88.0		0.66	5.00	ug/L
78-93-3	2-Butanone	89.1		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.3		0.22	1.00	ug/L
67-66-3	Chloroform	18.1		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.2		0.20	1.00	ug/L
71-43-2	Benzene	19.4		0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	1.00	ug/L
74-95-3	Dibromomethane	19.8		0.25	1.00	ug/L
75-27-4	Bromodichloromethane	19.3		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	5.00	ug/L
108-88-3	Toluene	20.9		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.1		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.16	1.00	ug/L
591-78-6	2-Hexanone	91.8		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20.3		0.19	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.13	1.00	ug/L

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBS01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039245.D	1	10/03/25 13:07	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	64.6		0.36	3.00	ug/L
100-42-5	Styrene	19.7		0.15	1.00	ug/L
75-25-2	Bromoform	21.5		0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.1		0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.3		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.5		0.53	1.00	ug/L
74-88-4	Methyl Iodide	22.0		0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	19.0		0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.7		74 - 125	83%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	45.8		86 - 113	92%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.4		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	559000	4.596			
540-36-3	1,4-Difluorobenzene	866000	5.532			
3114-55-4	Chlorobenzene-d5	845000	8.773			
3855-82-1	1,4-Dichlorobenzene-d4	506000	11.172			

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_V\DATA\VV100325\
Data File : VV039245.D
Acq On : 03 Oct 2025 13:07
Operator : SY/MD
Sample : VV1003WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Quant Time: Oct 04 01:08:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.596	168	559480	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	866328	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	845304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	506399	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	337839	41.722	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 83.440%			
35) Dibromofluoromethane	4.500	113	345571	49.618	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 99.240%			
50) Toluene-d8	7.236	98	936652	45.791	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 91.580%			
62) 4-Bromofluorobenzene	9.998	95	449945	53.433	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 106.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	147312	16.633	ug/l	99
3) Chloromethane	1.230	50	159153	16.739	ug/l	98
4) Vinyl Chloride	1.297	62	178439	17.531	ug/l	100
5) Bromomethane	1.500	94	120645	18.802	ug/l	100
6) Chloroethane	1.561	64	116472	18.144	ug/l	97
7) Trichlorofluoromethane	1.725	101	280975	19.066	ug/l	100
8) Diethyl Ether	1.918	74	101959	18.637	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.082	101	169365	19.315	ug/l	96
10) Methyl Iodide	2.198	142	183933	22.028	ug/l	99
11) Tert butyl alcohol	2.564	59	154118	90.054	ug/l	96
12) 1,1-Dichloroethene	2.082	96	158669	18.810	ug/l	94
13) Acrolein	2.011	56	15337	51.646	ug/l	93
14) Allyl chloride	2.359	41	264501	17.554	ug/l	98
15) Acrylonitrile	2.674	53	487507	88.861	ug/l	99
16) Acetone	2.117	43	488555	91.016	ug/l	97
17) Carbon Disulfide	2.252	76	413185	16.016	ug/l	99
18) Methyl Acetate	2.381	43	253442	21.125	ug/l	96
19) Methyl tert-butyl Ether	2.709	73	532207	19.799	ug/l	99
20) Methylene Chloride	2.455	84	188042	19.948	ug/l	93
21) trans-1,2-Dichloroethene	2.703	96	166888	18.584	ug/l	98
22) Diisopropyl ether	3.214	45	522821	18.135	ug/l	82
23) Vinyl Acetate	3.188	43	2220327	88.039	ug/l	97
24) 1,1-Dichloroethane	3.117	63	320962	18.205	ug/l	98
25) 2-Butanone	3.867	43	577685	89.093	ug/l	98
26) 2,2-Dichloropropane	3.812	77	274205	17.541	ug/l	100
27) cis-1,2-Dichloroethene	3.821	96	190466	19.231	ug/l	95
28) Bromochloromethane	4.146	49	150145	19.291	ug/l	90
29) Tetrahydrofuran	4.236	42	347741	85.681	ug/l	96
30) Chloroform	4.278	83	333971	18.141	ug/l	98
31) Cyclohexane	4.584	56	237069	16.415	ug/l	96
32) 1,1,1-Trichloroethane	4.510	97	289772	18.181	ug/l	97
36) 1,1-Dichloropropene	4.744	75	198893	18.889	ug/l	98
37) Ethyl Acetate	3.982	43	217952	17.058	ug/l #	88
38) Carbon Tetrachloride	4.731	117	247222	19.211	ug/l	99
39) Methylcyclohexane	6.046	83	217981	17.142	ug/l	95
40) Benzene	5.008	78	664341	19.375	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039245.D
Acq On : 03 Oct 2025 13:07
Operator : SY/MD
Sample : VV1003WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Quant Time: Oct 04 01:08:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.166	41	93853	17.536	ug/l		91
42) 1,2-Dichloroethane	5.040	62	226266	18.833	ug/l		97
43) Isopropyl Acetate	5.194	43	331315	19.018	ug/l		98
44) Trichloroethene	5.831	130	164874	20.838	ug/l		98
45) 1,2-Dichloropropane	6.088	63	169707	19.912	ug/l		93
46) Dibromomethane	6.227	93	128921	19.764	ug/l		94
47) Bromodichloromethane	6.426	83	260291	19.302	ug/l		99
48) Methyl methacrylate	6.301	41	143613	18.186	ug/l		95
49) 1,4-Dioxane	6.294	88	48393	379.726	ug/l		99
51) 4-Methyl-2-Pentanone	7.146	43	1148145	100.178	ug/l		99
52) Toluene	7.307	92	415826	20.916	ug/l		98
53) t-1,3-Dichloropropene	7.574	75	247740	21.080	ug/l		99
54) cis-1,3-Dichloropropene	6.950	75	271589	20.933	ug/l		97
55) 1,1,2-Trichloroethane	7.760	97	178056	19.974	ug/l		96
56) Ethyl methacrylate	7.715	69	217780	20.572	ug/l		95
57) 1,3-Dichloropropane	7.934	76	287981	20.470	ug/l		98
58) 2-Chloroethyl Vinyl ether	6.812	63	475072	86.041	ug/l		96
59) 2-Hexanone	8.062	43	835938	91.844	ug/l		99
60) Dibromochloromethane	8.169	129	210459	20.720	ug/l		98
61) 1,2-Dibromoethane	8.275	107	187426	20.559	ug/l		99
64) Tetrachloroethene	7.895	164	143810	20.312	ug/l		98
65) Chlorobenzene	8.805	112	476325	20.230	ug/l		98
66) 1,1,1,2-Tetrachloroethane	8.898	131	172386	20.263	ug/l		99
67) Ethyl Benzene	8.937	91	720606	20.218	ug/l		98
68) m/p-Xylenes	9.062	106	592787	43.093	ug/l		99
69) o-Xylene	9.468	106	261997	21.510	ug/l		97
70) Styrene	9.487	104	486013	19.731	ug/l		99
71) Bromoform	9.654	173	142741	21.480	ug/l	#	99
73) Isopropylbenzene	9.853	105	730232	19.881	ug/l		100
74) N-amyl acetate	9.725	43	277738	18.957	ug/l		97
75) 1,1,2,2-Tetrachloroethane	10.165	83	292188	18.156	ug/l		99
76) 1,2,3-Trichloropropane	10.197	75	208818	18.111	ug/l		97
77) Bromobenzene	10.140	156	197841	20.761	ug/l		94
78) n-propylbenzene	10.278	91	870650	19.466	ug/l		98
79) 2-Chlorotoluene	10.345	91	552648	20.649	ug/l		100
80) 1,3,5-Trimethylbenzene	10.464	105	623906	20.437	ug/l		100
81) trans-1,4-Dichloro-2-b...	9.927	75	91130	18.975	ug/l		98
82) 4-Chlorotoluene	10.461	91	637564	20.544	ug/l		98
83) tert-Butylbenzene	10.789	119	586432	19.264	ug/l		98
84) 1,2,4-Trimethylbenzene	10.841	105	608680	20.537	ug/l		97
85) sec-Butylbenzene	11.011	105	764641	18.937	ug/l		99
86) p-Isopropyltoluene	11.165	119	646503	19.237	ug/l		99
87) 1,3-Dichlorobenzene	11.104	146	388162	20.127	ug/l		99
88) 1,4-Dichlorobenzene	11.197	146	408220	19.293	ug/l		100
89) n-Butylbenzene	11.580	91	586984	18.289	ug/l		99
90) Hexachloroethane	11.818	117	137547	16.621	ug/l		95
91) 1,2-Dichlorobenzene	11.567	146	355232	19.715	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.352	75	58842	20.532	ug/l		99
93) 1,2,4-Trichlorobenzene	13.184	180	208698	20.205	ug/l		99
94) Hexachlorobutadiene	13.368	225	90851	16.928	ug/l		99
95) Naphthalene	13.426	128	654167	19.595	ug/l		99
96) 1,2,3-Trichlorobenzene	13.667	180	209698	19.850	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039245.D
Acq On : 03 Oct 2025 13:07
Operator : SY/MD
Sample : VV1003WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Quant Time: Oct 04 01:08:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 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_V\DATA\VV100325\
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Acq On : 03 Oct 2025 13:07
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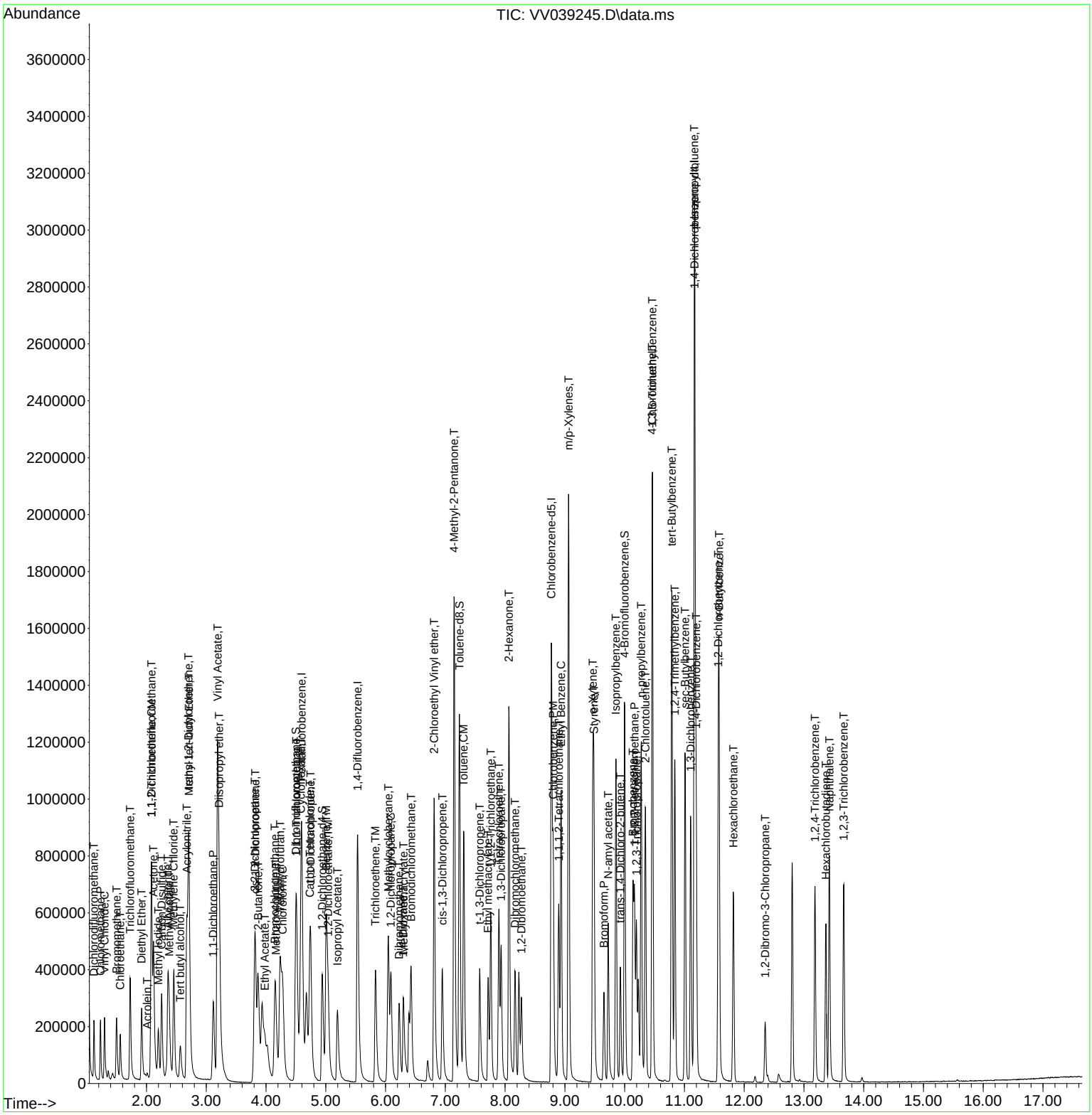
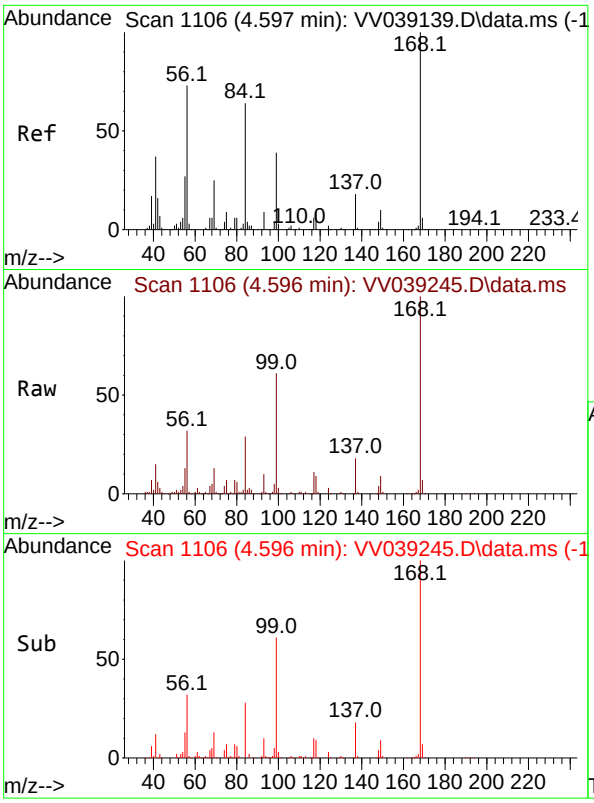
Quant Time: Oct 04 01:08:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



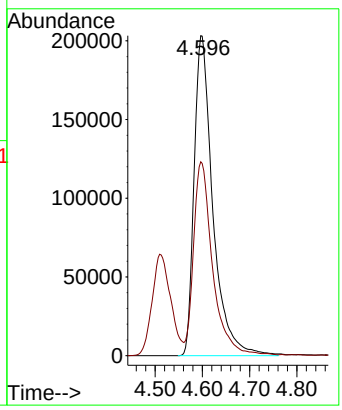


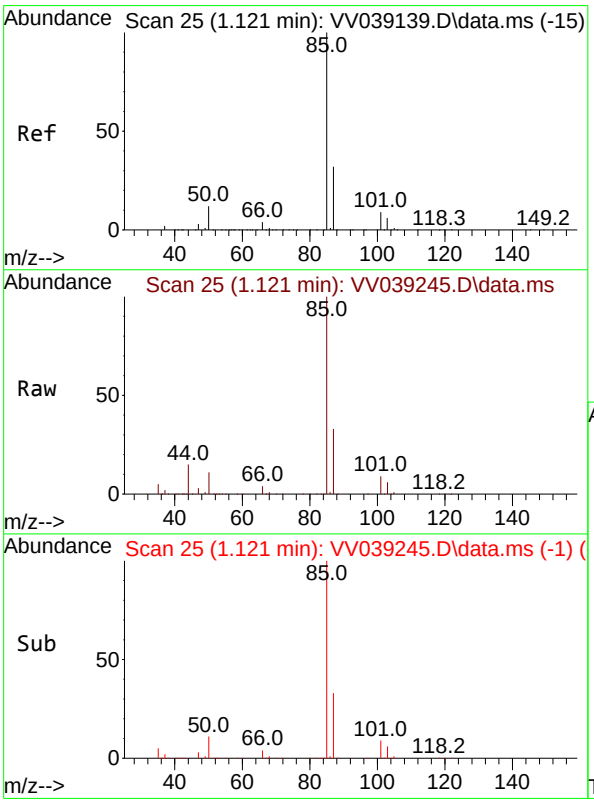
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:168 Resp: 559480

Ion	Ratio	Lower	Upper
168	100		
99	60.3	49.6	74.4

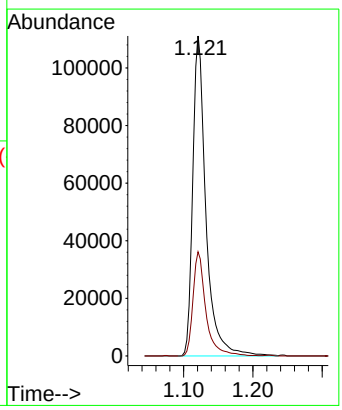


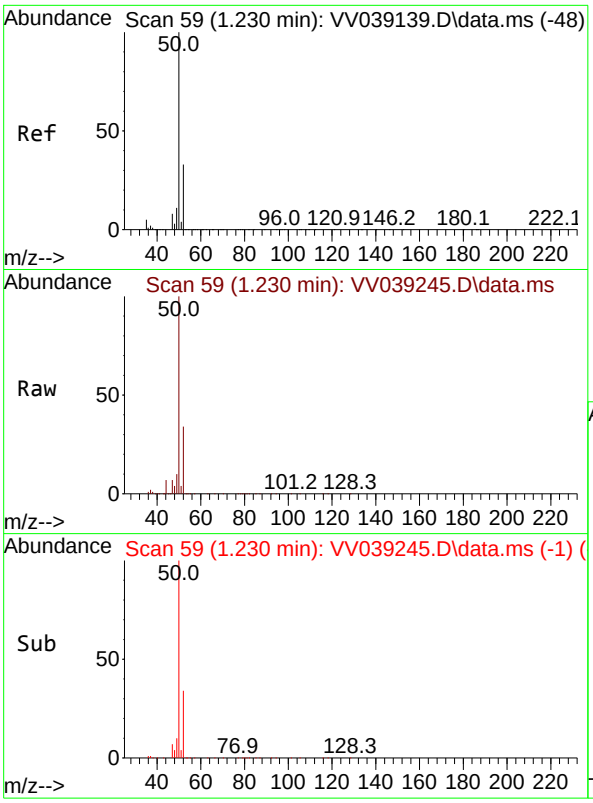


#2
Dichlorodifluoromethane
Concen: 16.633 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 85 Resp: 147312

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.0	47.9



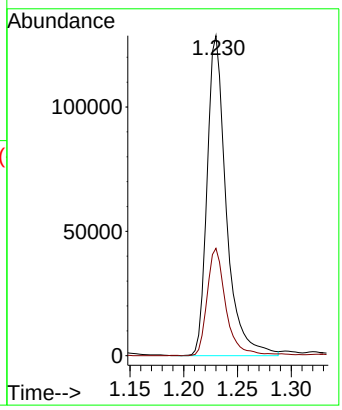


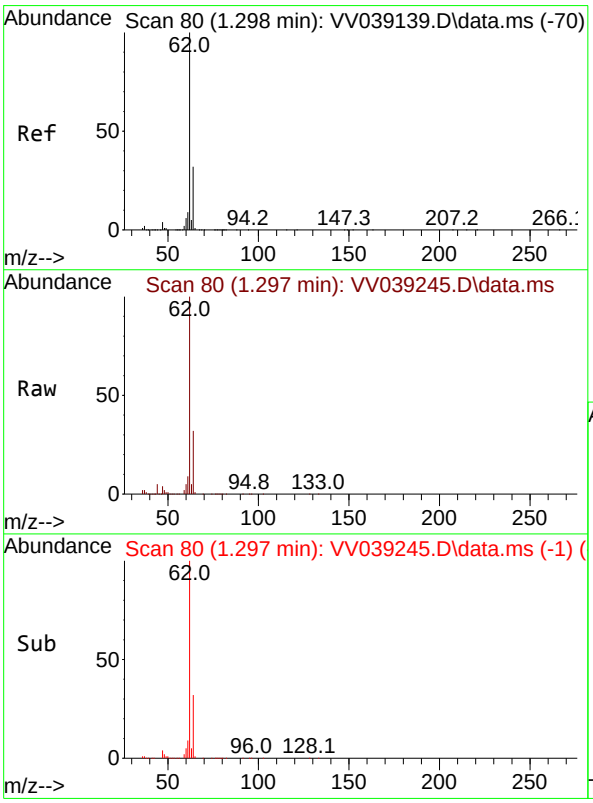
#3
Chloromethane
Concen: 16.739 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 50 Resp: 159153

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.0	39.0

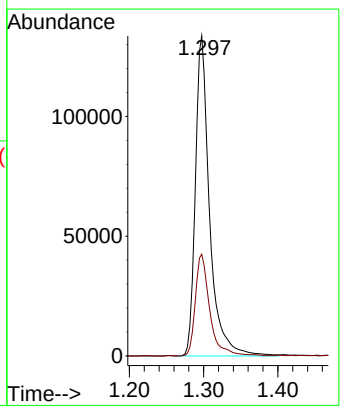


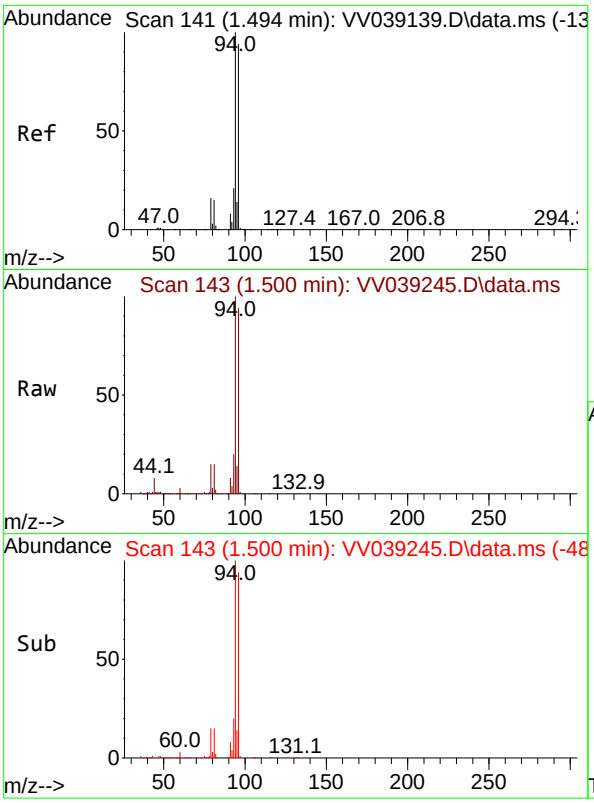


#4
Vinyl Chloride
Concen: 17.531 ug/l
RT: 1.297 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 62 Resp: 178439

Ion	Ratio	Lower	Upper
62	100		
64	31.8	25.6	38.4



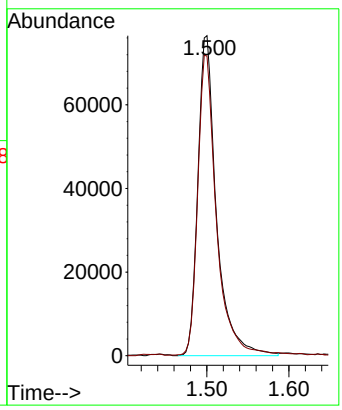


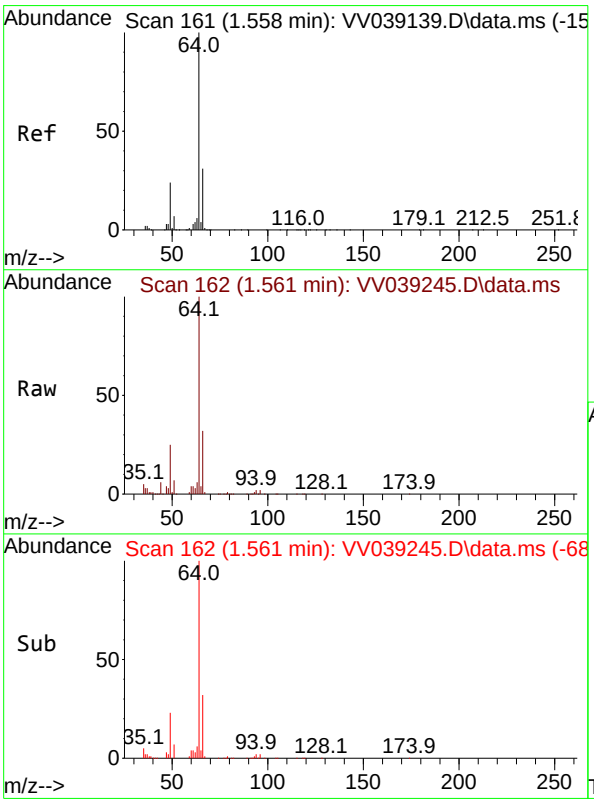
#5
Bromomethane
Concen: 18.802 ug/l
RT: 1.500 min Scan# 14
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 94 Resp: 120645

Ion	Ratio	Lower	Upper
94	100		
96	93.4	74.9	112.3

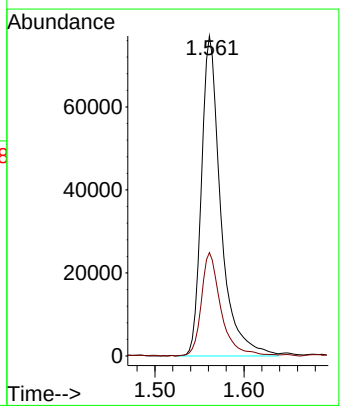


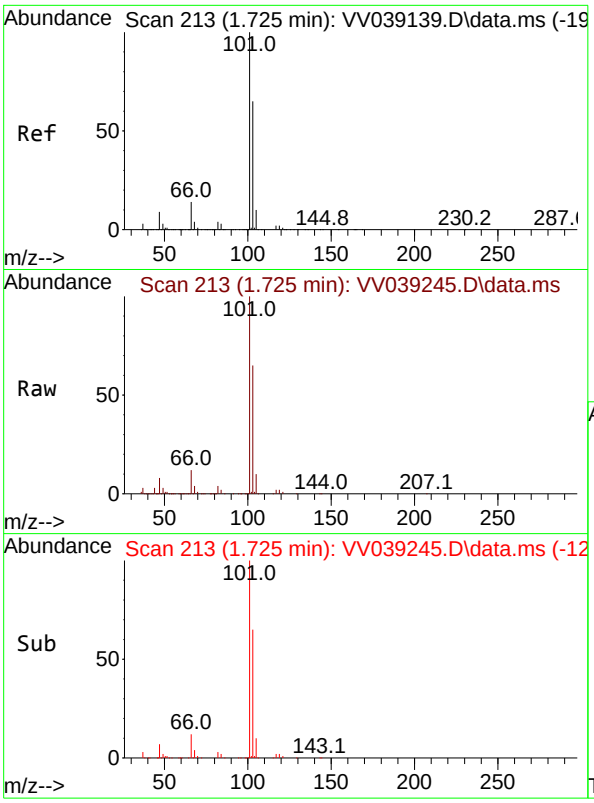


#6
Chloroethane
Concen: 18.144 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 64 Resp: 116472

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.6	36.8



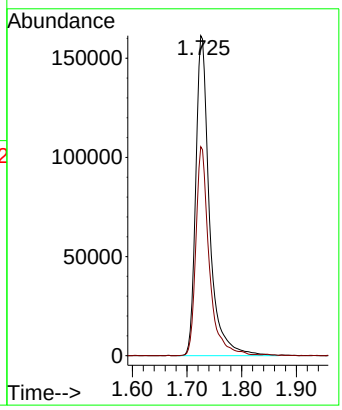


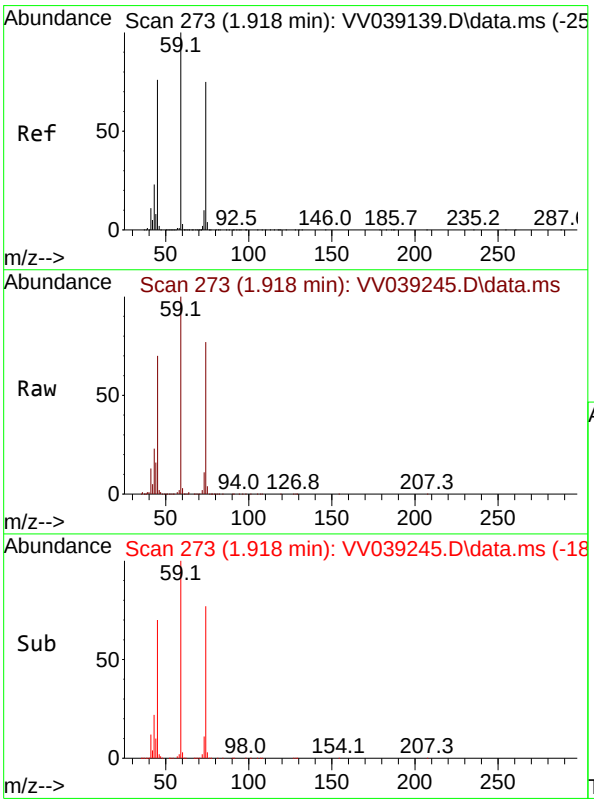
#7
Trichlorofluoromethane
Concen: 19.066 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:101 Resp: 280975

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.0	78.0

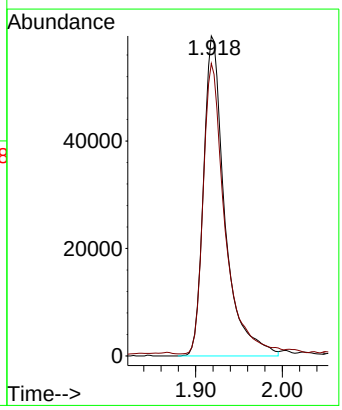


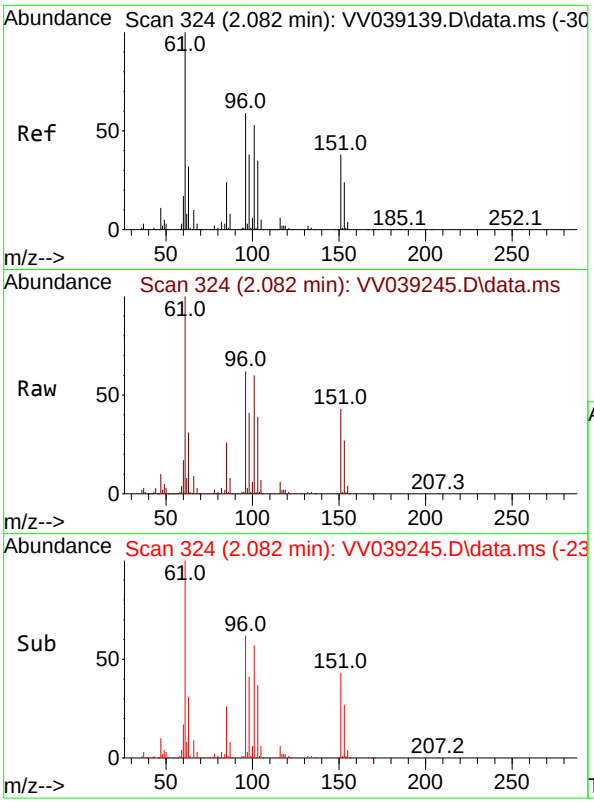


#8
Diethyl Ether
Concen: 18.637 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 74 Resp: 101959

Ion	Ratio	Lower	Upper
74	100		
45	92.3	49.6	148.8



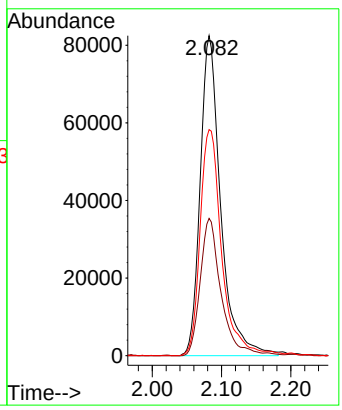


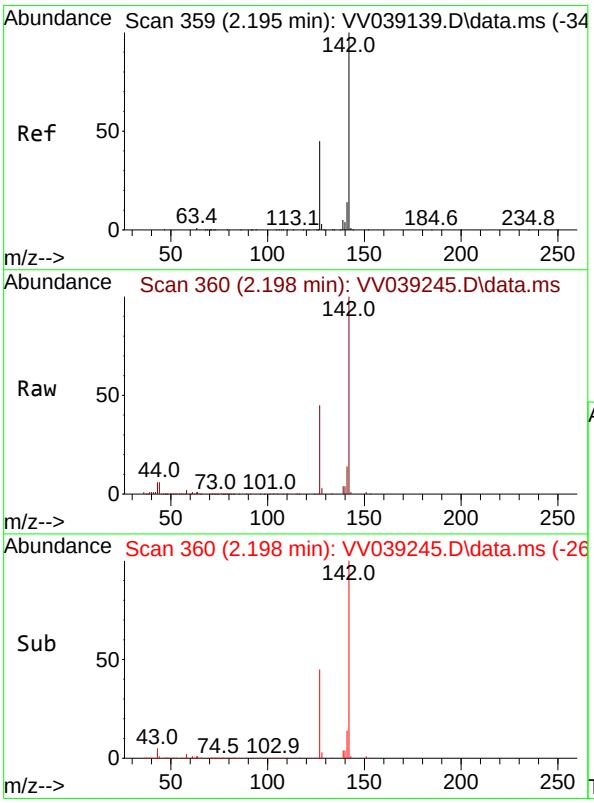
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.315 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:101 Resp: 169365

Ion	Ratio	Lower	Upper
101	100		
85	43.2	36.2	54.2
151	74.5	56.3	84.5

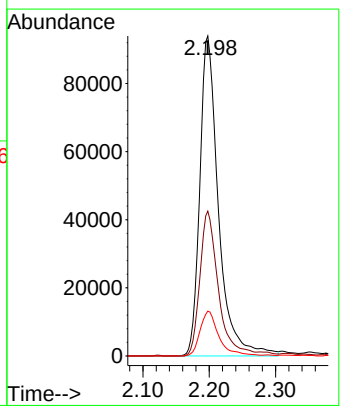


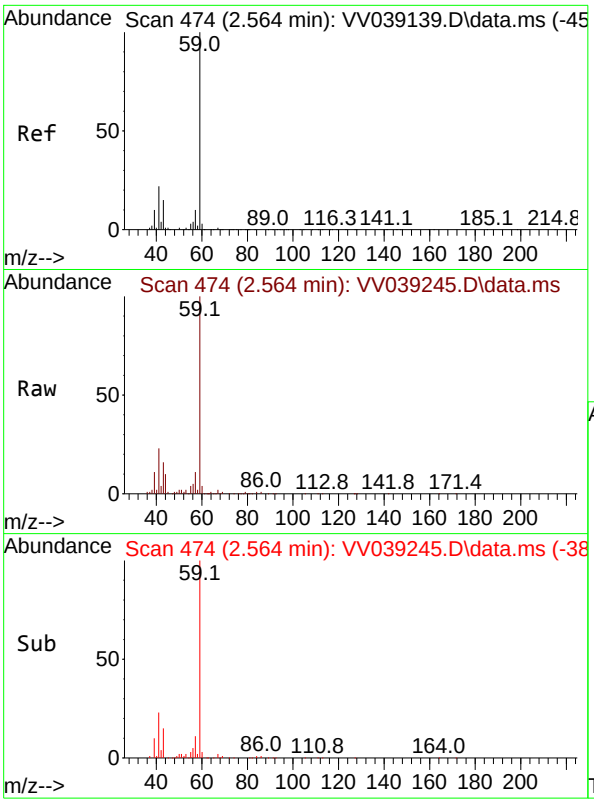


#10
Methyl Iodide
Concen: 22.028 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:142 Resp: 183933

Ion	Ratio	Lower	Upper
142	100		
127	44.5	36.3	54.5
141	14.1	11.2	16.8



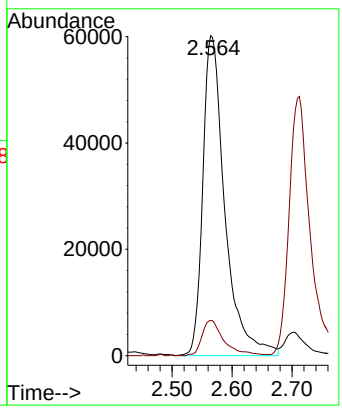


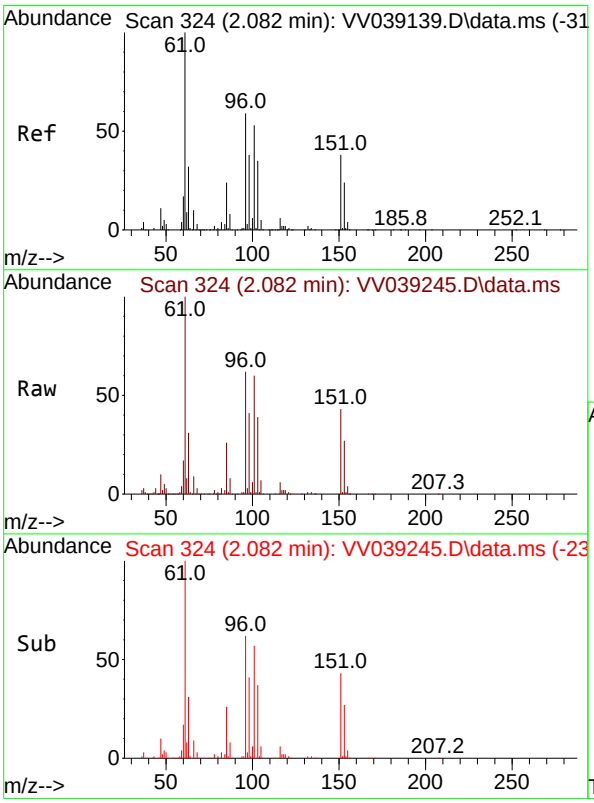
#11
Tert butyl alcohol
Concen: 90.054 ug/l
RT: 2.564 min Scan# 4
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 59 Resp: 154118

Ion	Ratio	Lower	Upper
59	100		
57	11.1	7.8	11.8

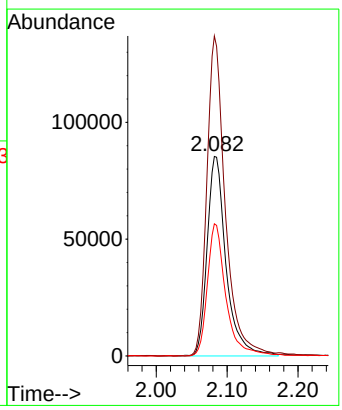


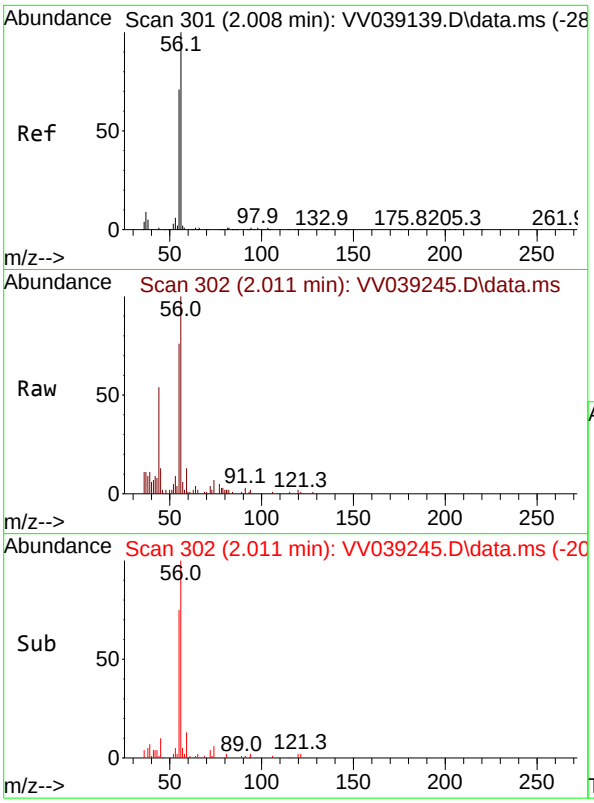


#12
1,1-Dichloroethene
Concen: 18.810 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 96 Resp: 158669

Ion	Ratio	Lower	Upper
96	100		
61	160.2	136.0	204.0
98	66.3	51.0	76.6



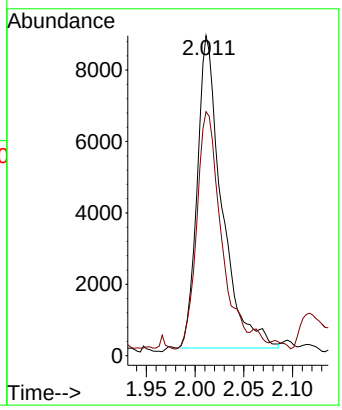


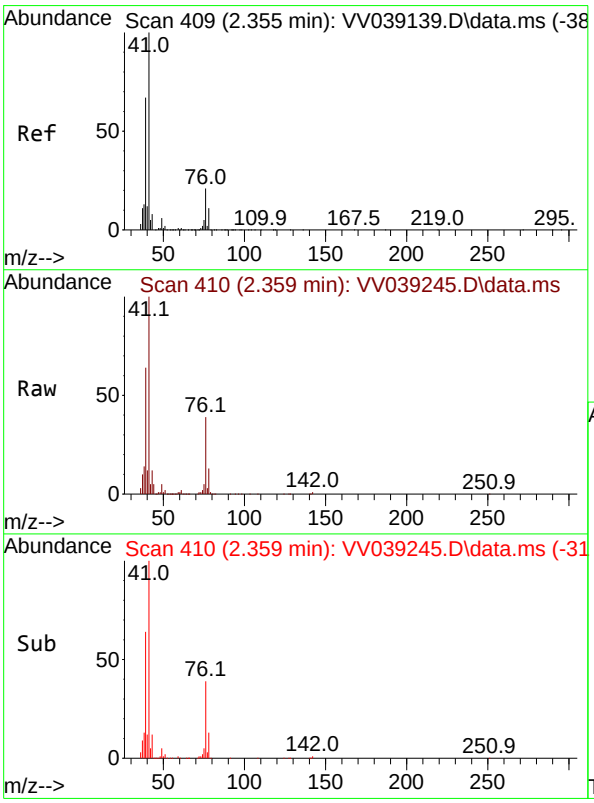
#13
Acrolein
Concen: 51.646 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 56 Resp: 15337

Ion	Ratio	Lower	Upper
56	100		
55	75.7	56.2	84.4

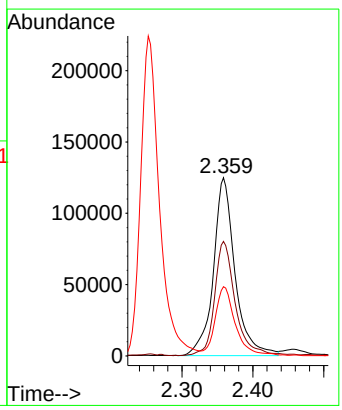


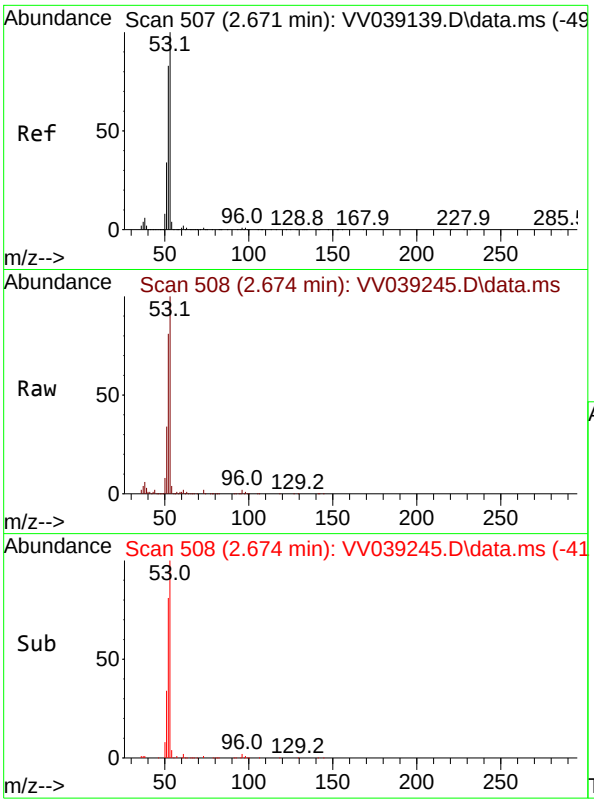


#14
Allyl chloride
Concen: 17.554 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 41 Resp: 264501

Ion	Ratio	Lower	Upper
41	100		
39	61.3	51.0	76.6
76	35.8	28.2	42.4



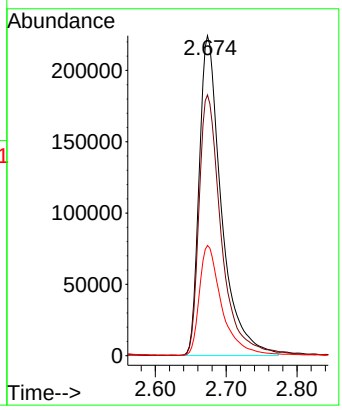


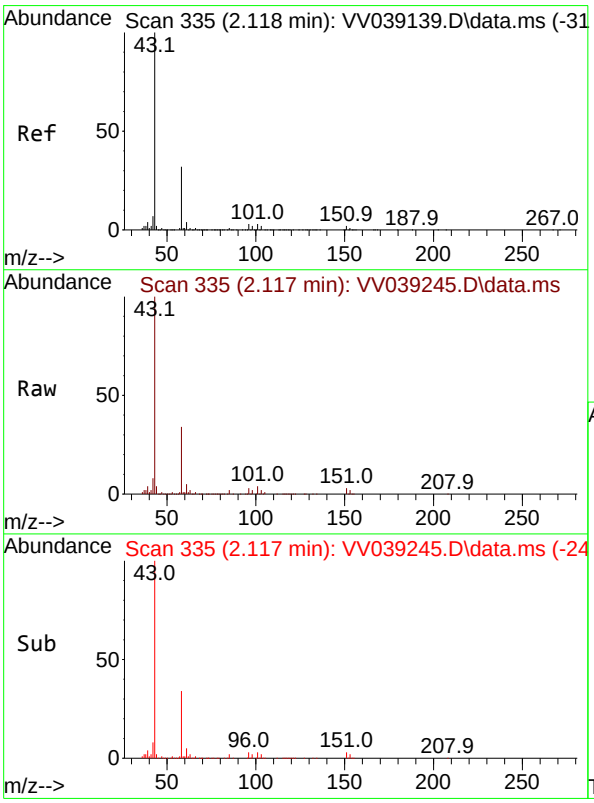
#15
Acrylonitrile
Concen: 88.861 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 53 Resp: 487507

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	34.8	28.5	42.7

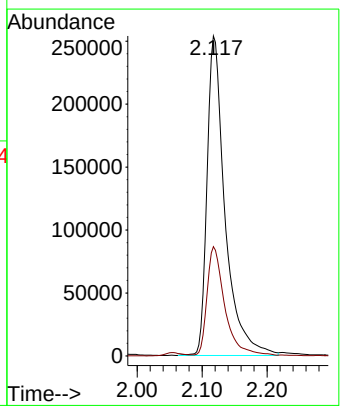


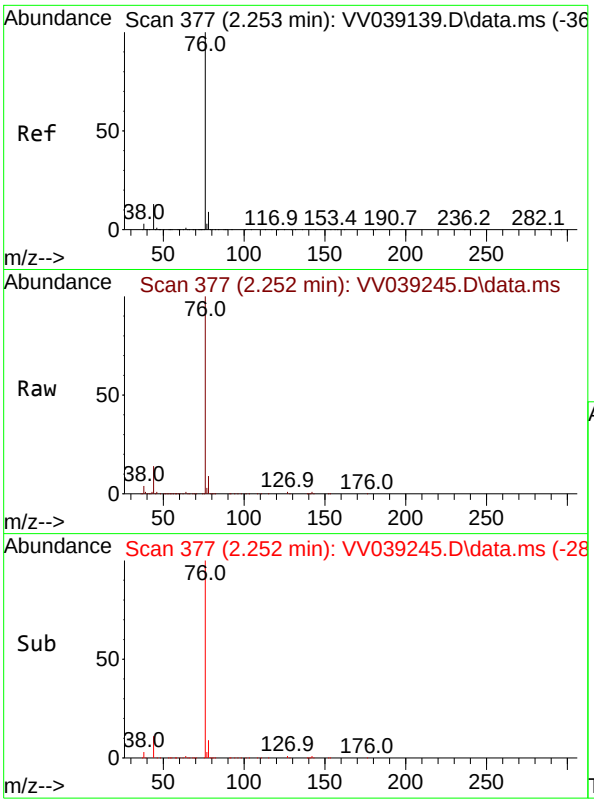


#16
Acetone
Concen: 91.016 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 43 Resp: 488555

Ion	Ratio	Lower	Upper
43	100		
58	33.9	25.8	38.6



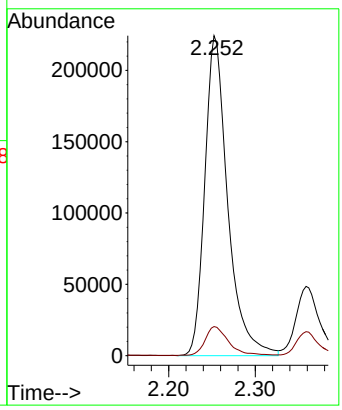


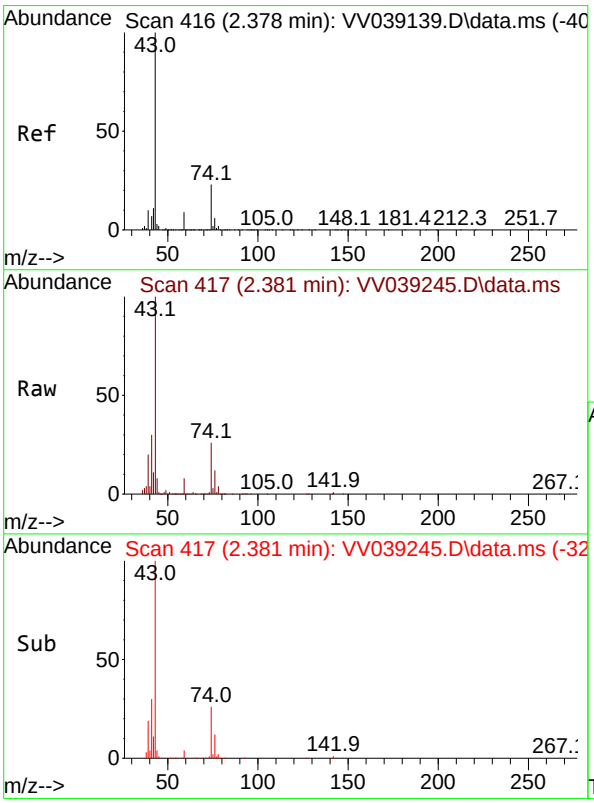
#17
Carbon Disulfide
Concen: 16.016 ug/l
RT: 2.252 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 76 Resp: 413185

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.4	11.0

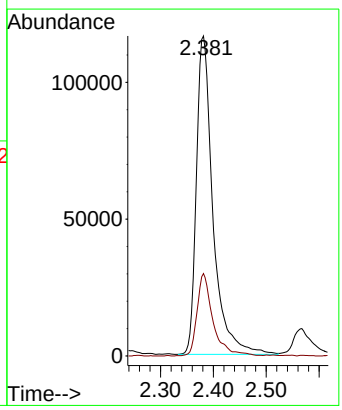


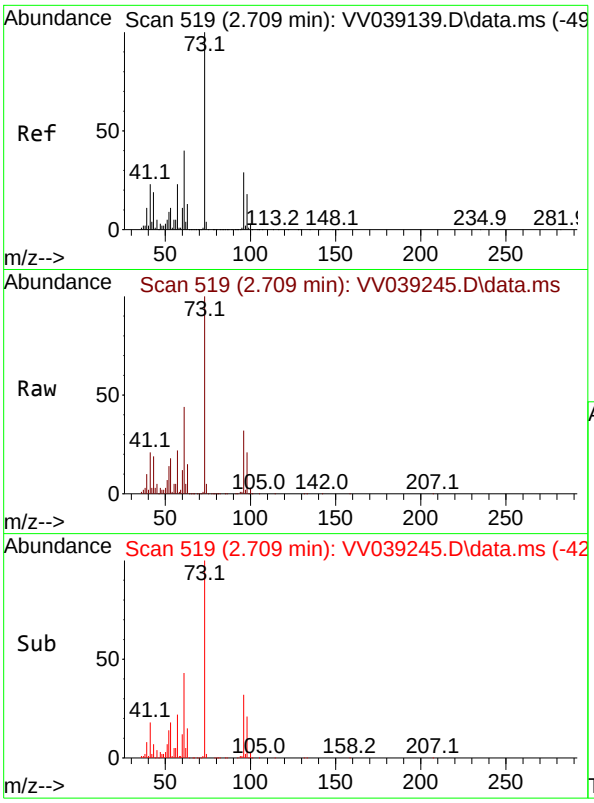


#18
Methyl Acetate
Concen: 21.125 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 43 Resp: 253442

Ion	Ratio	Lower	Upper
43	100		
74	24.9	18.6	27.8



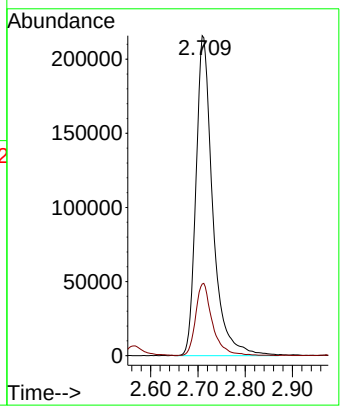


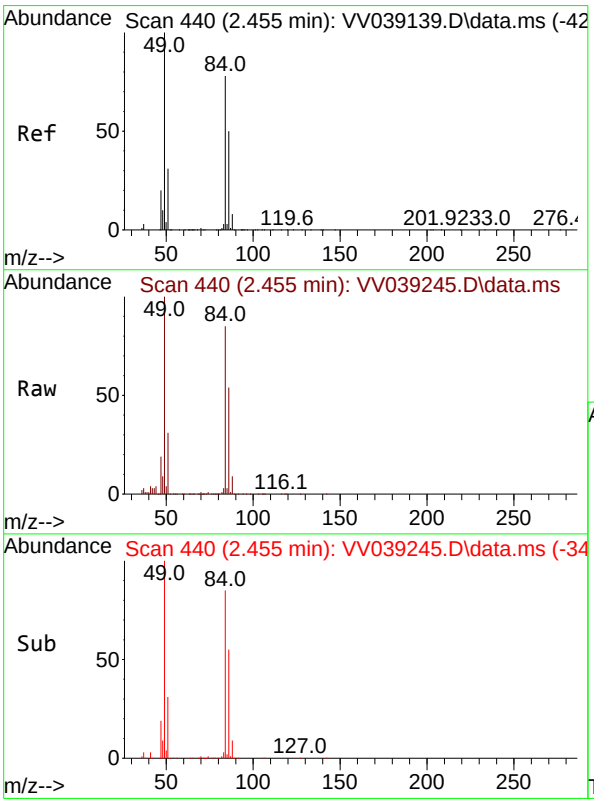
#19
Methyl tert-butyl Ether
Concen: 19.799 ug/l
RT: 2.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 73 Resp: 532207

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.2	27.4

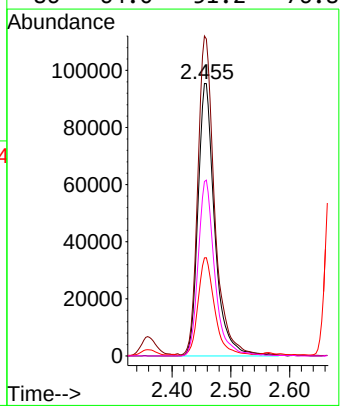


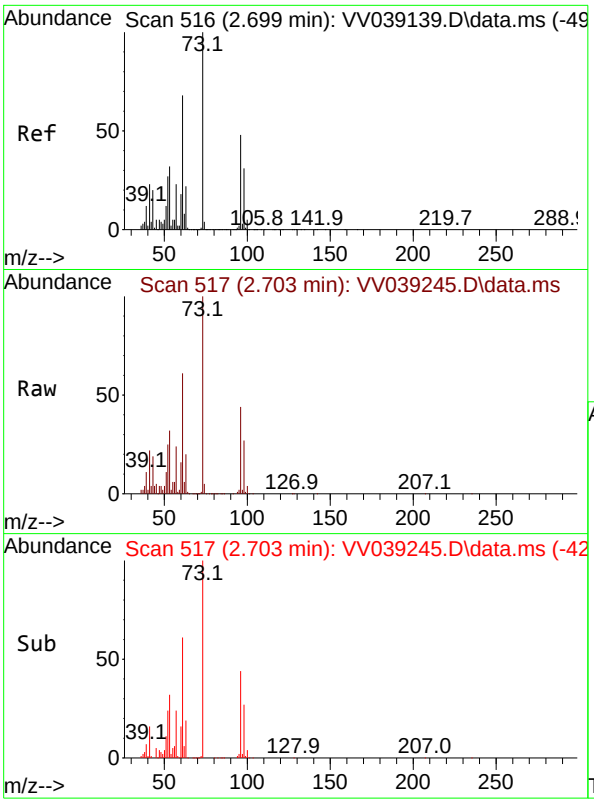


#20
Methylene Chloride
Concen: 19.948 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 84 Resp: 188042

Ion	Ratio	Lower	Upper
84	100		
49	117.0	102.8	154.2
51	35.7	31.9	47.9
86	64.0	51.2	76.8



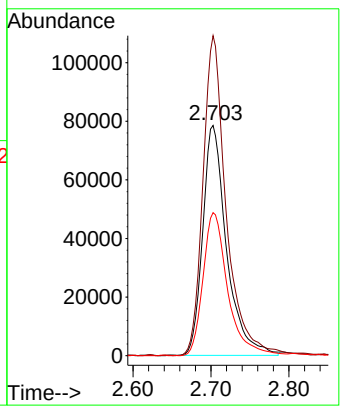


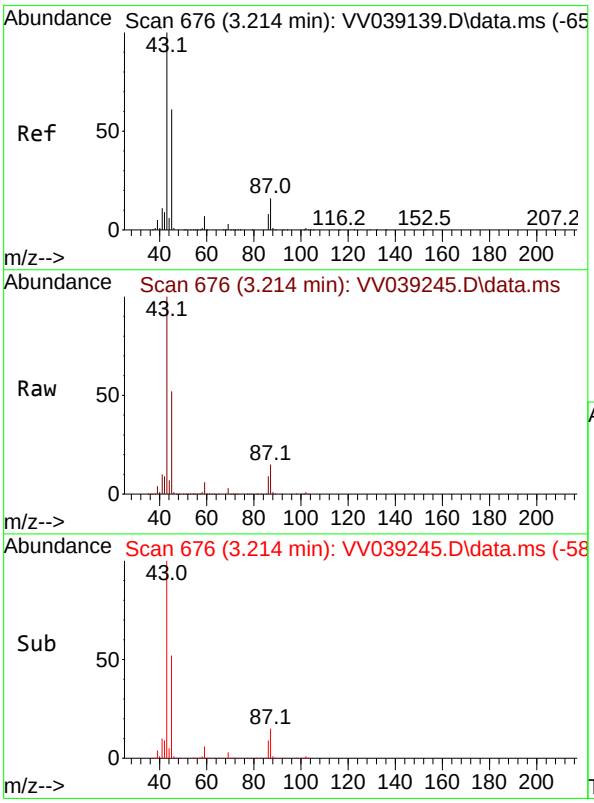
#21
trans-1,2-Dichloroethene
Concen: 18.584 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 96 Resp: 166888

Ion	Ratio	Lower	Upper
96	100		
61	139.0	112.8	169.2
98	62.2	51.1	76.7

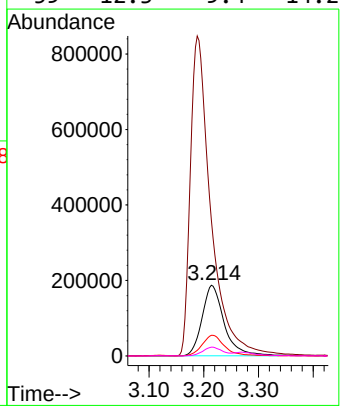


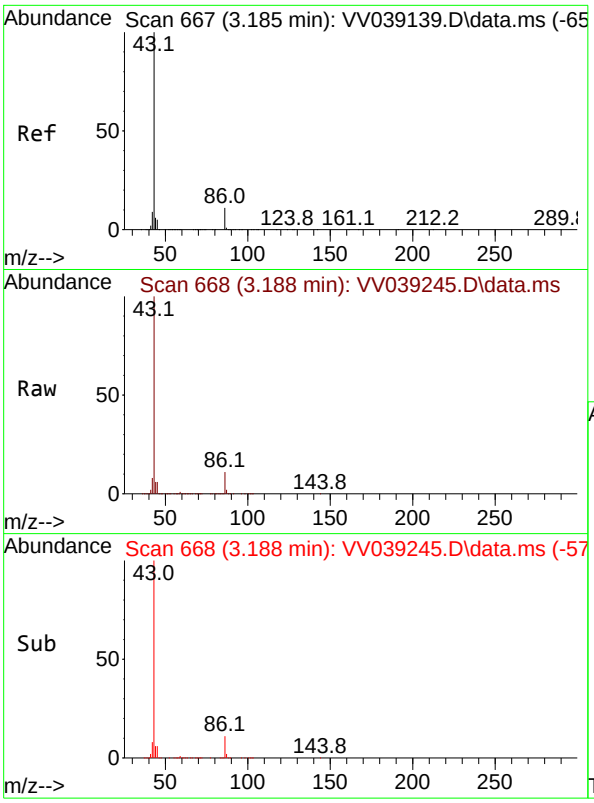


#22
Diisopropyl ether
Concen: 18.135 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 45 Resp: 522821

Ion	Ratio	Lower	Upper
45	100		
43	192.8	130.9	196.3
87	29.0	21.1	31.7
59	12.3	9.4	14.2



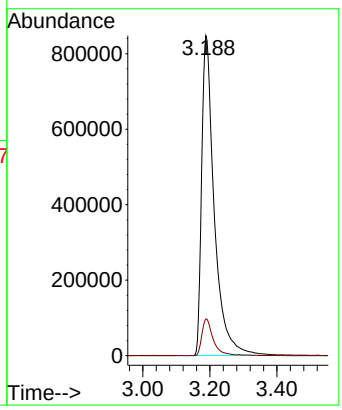


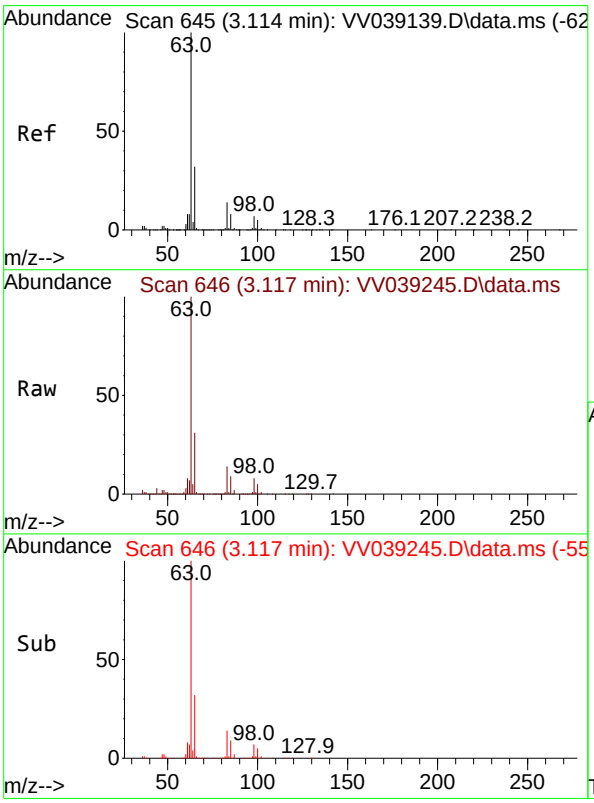
#23
Vinyl Acetate
Concen: 88.039 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 43 Resp: 2220327

Ion	Ratio	Lower	Upper
43	100		
86	11.5	8.4	12.6

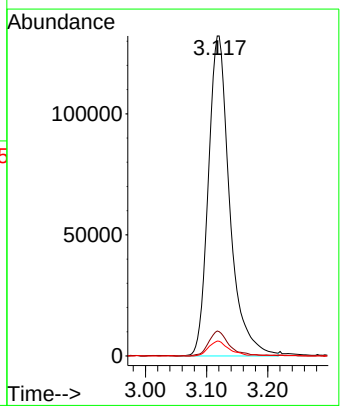


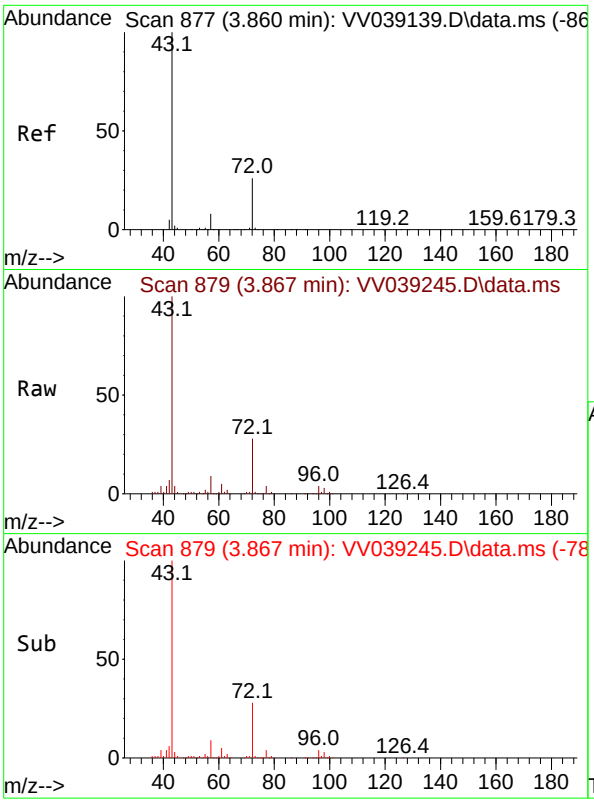


#24
1,1-Dichloroethane
Concen: 18.205 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 63 Resp: 320962

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.4	10.2
100	4.6	2.2	6.6



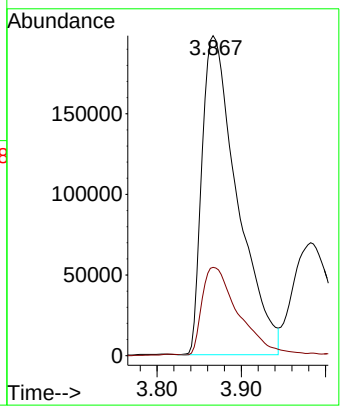


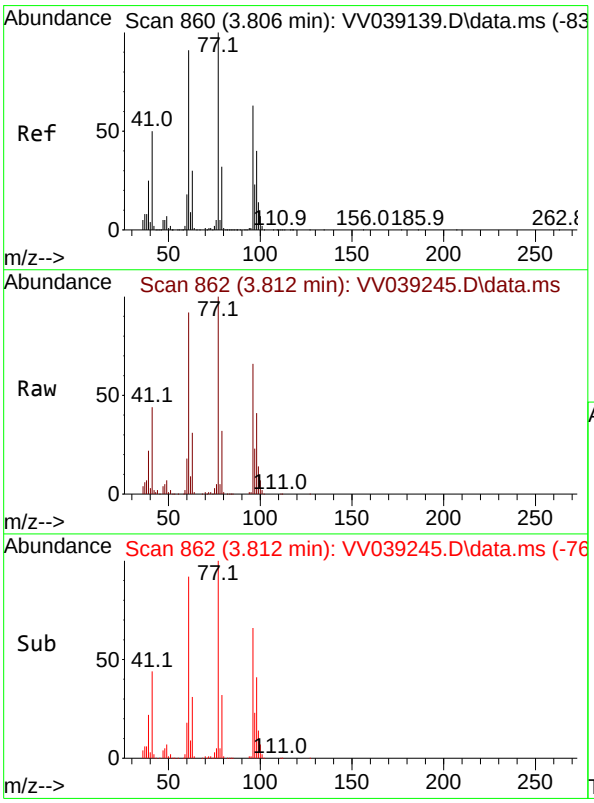
#25
2-Butanone
Concen: 89.093 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 43 Resp: 577685

Ion	Ratio	Lower	Upper
43	100		
72	27.4	21.0	31.6

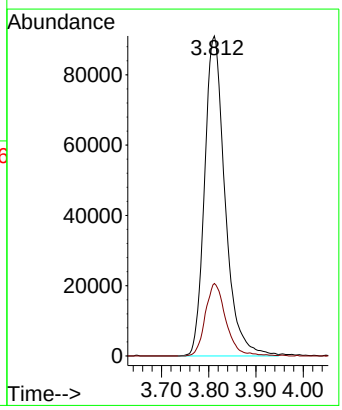


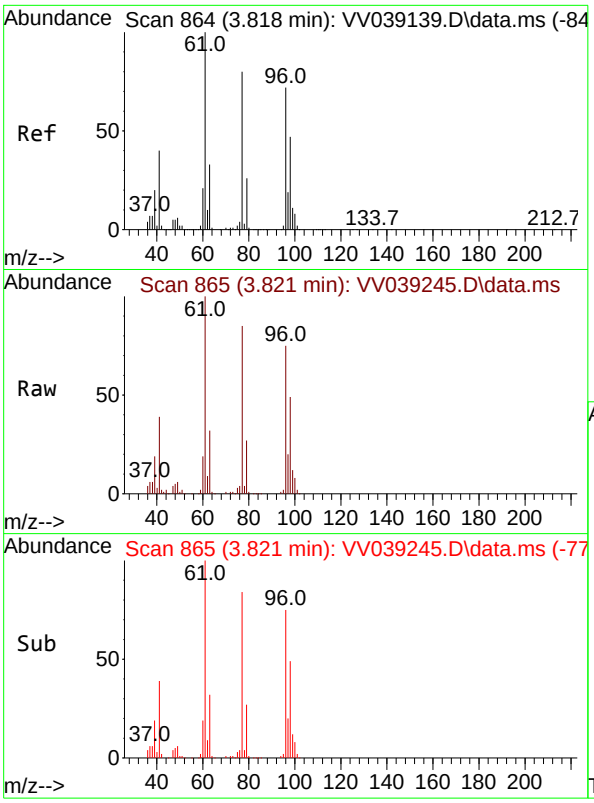


#26
2,2-Dichloropropane
Concen: 17.541 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 77 Resp: 274205

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.6	34.7



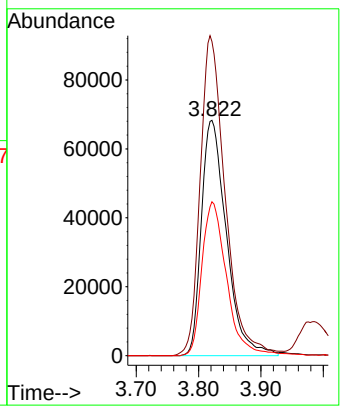


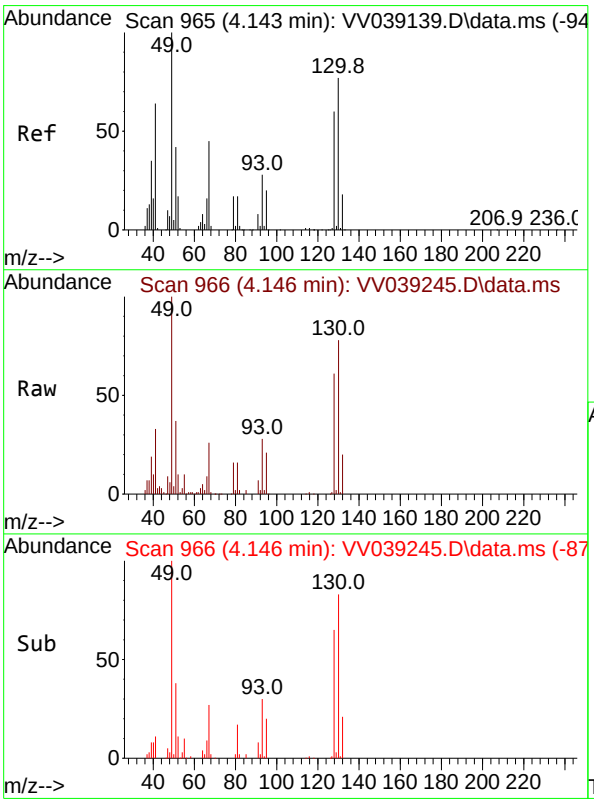
#27
cis-1,2-Dichloroethene
Concen: 19.231 ug/l
RT: 3.821 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 96 Resp: 190466

Ion	Ratio	Lower	Upper
96	100		
61	136.0	0.0	286.4
98	64.9	0.0	126.6

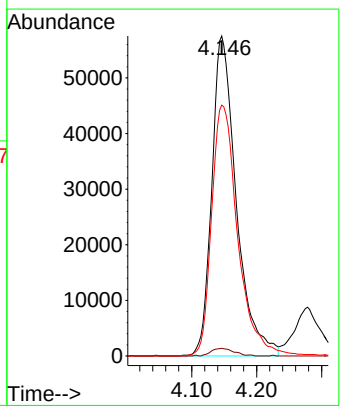


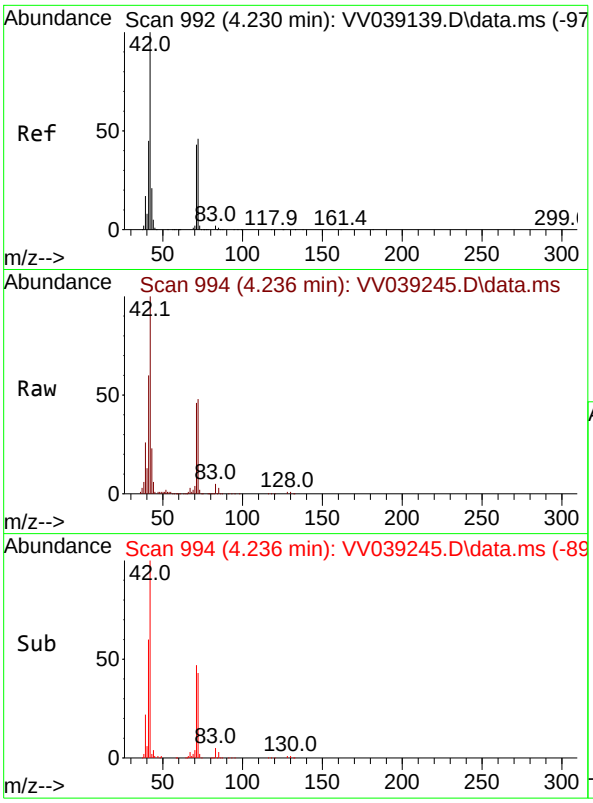


#28
Bromochloromethane
Concen: 19.291 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 49 Resp: 150145

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	83.8	60.2	90.2



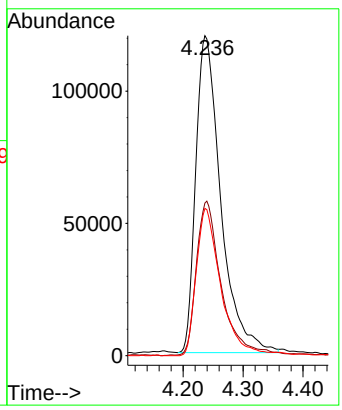


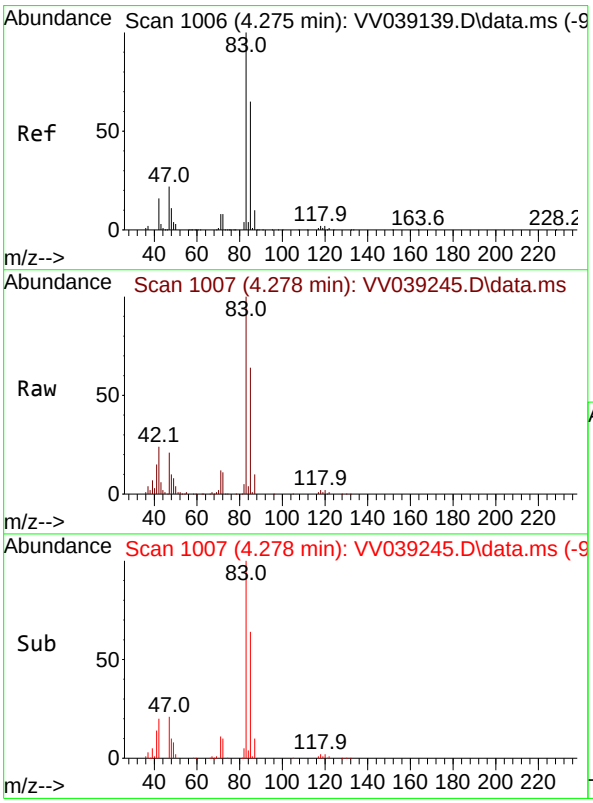
#29
Tetrahydrofuran
Concen: 85.681 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 42 Resp: 347741

Ion	Ratio	Lower	Upper
42	100		
72	48.1	36.3	54.5
71	45.4	34.3	51.5

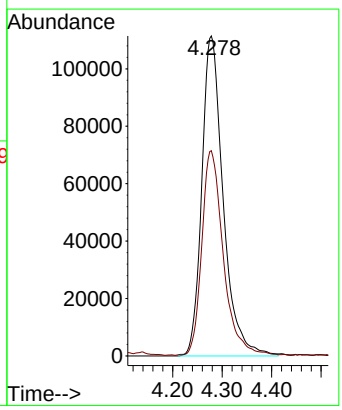


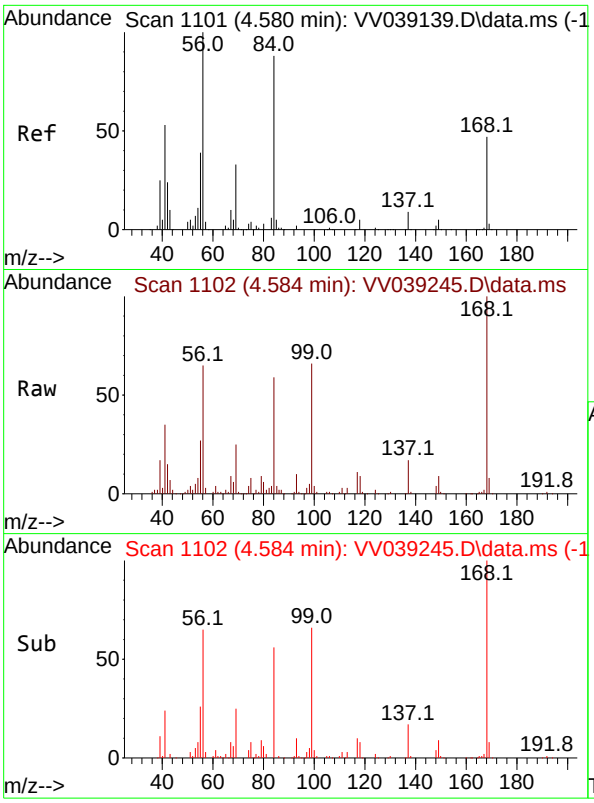


#30
Chloroform
Concen: 18.141 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 83 Resp: 333971

Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.1	78.1



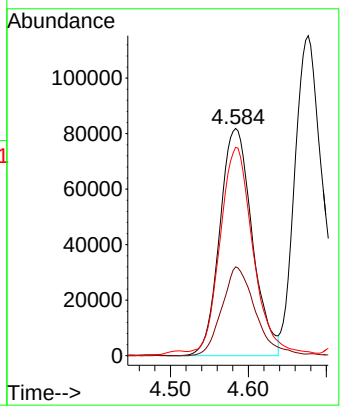


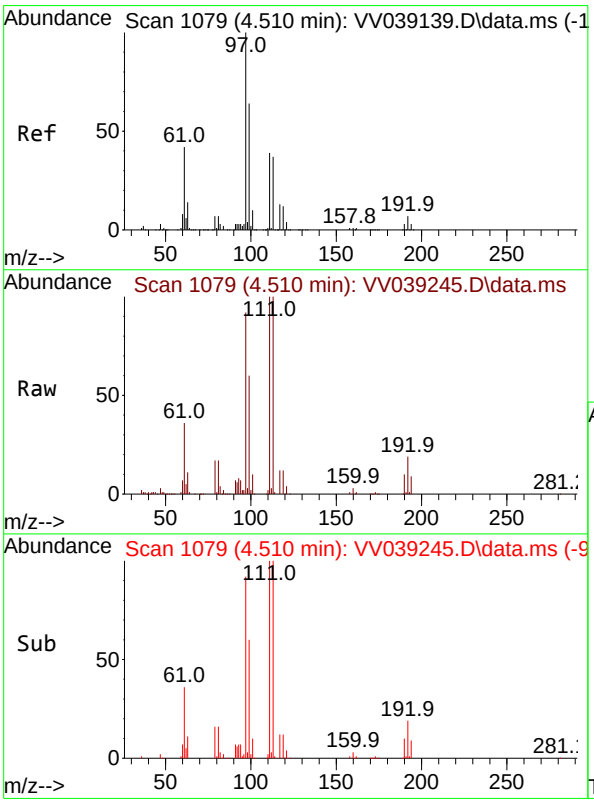
#31
Cyclohexane
Concen: 16.415 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 56 Resp: 237069

Ion	Ratio	Lower	Upper
56	100		
69	39.1	26.2	39.2
84	89.6	70.3	105.5

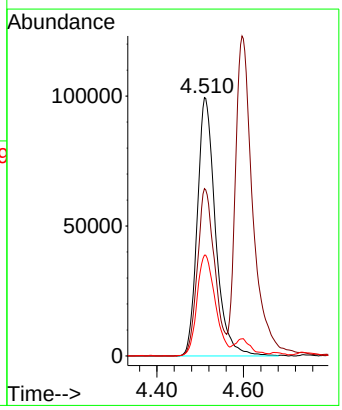


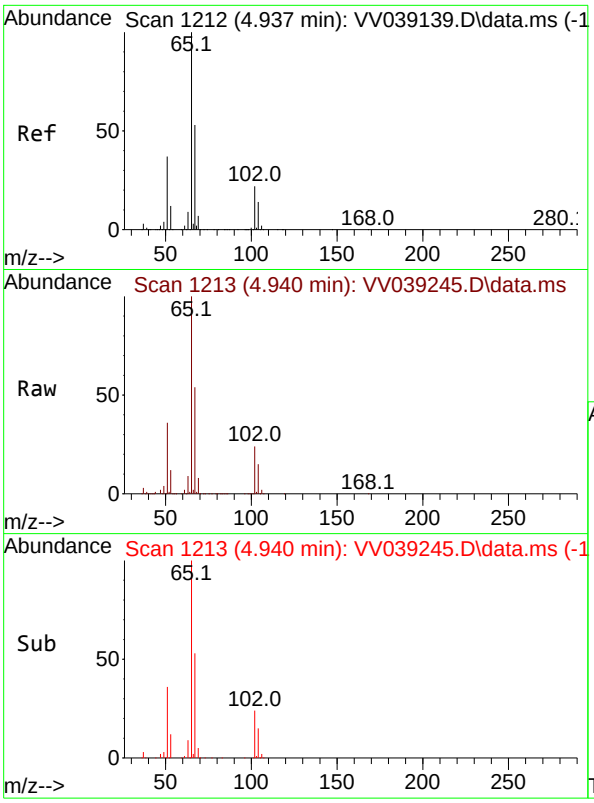


#32
1,1,1-Trichloroethane
Concen: 18.181 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 97 Resp: 289772

Ion	Ratio	Lower	Upper
97	100		
99	61.2	49.6	74.4
61	39.2	34.5	51.7



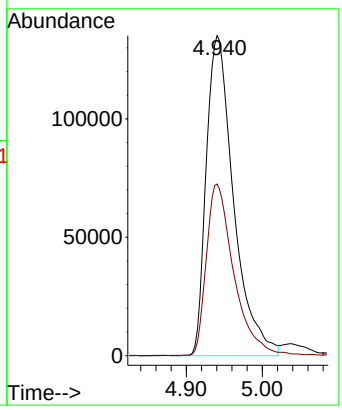


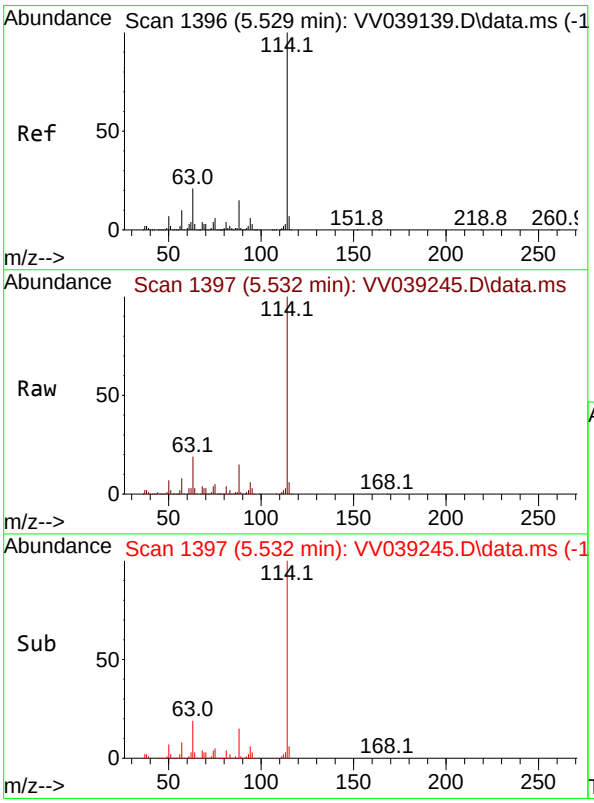
#33
1,2-Dichloroethane-d4
Concen: 41.722 ug/l
RT: 4.940 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 65 Resp: 337839

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	107.0

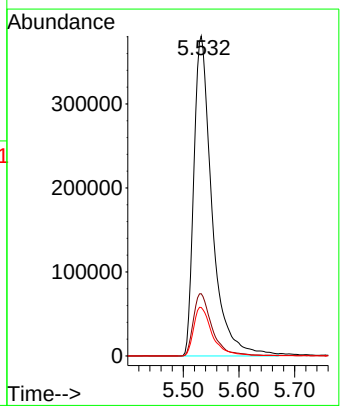


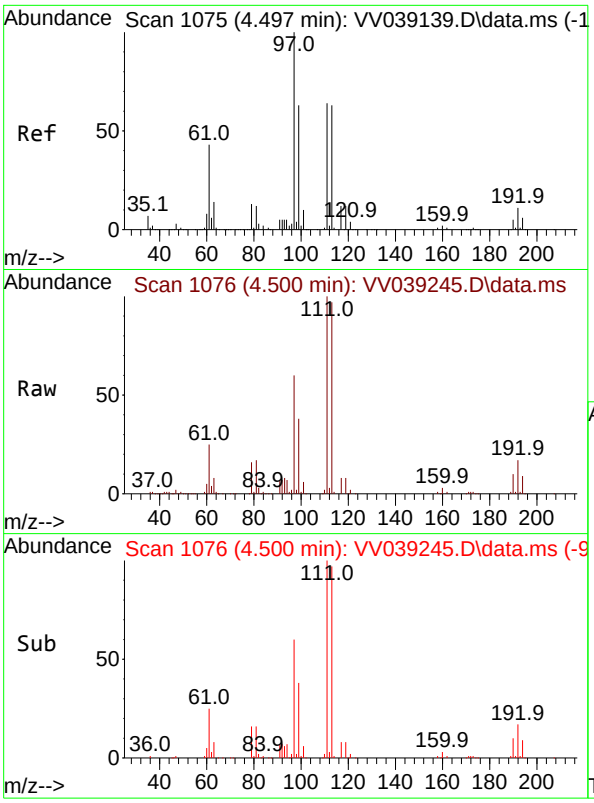


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:114 Resp: 866328

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	42.6
88	15.1	0.0	30.8



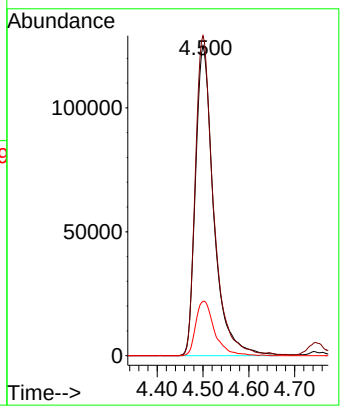


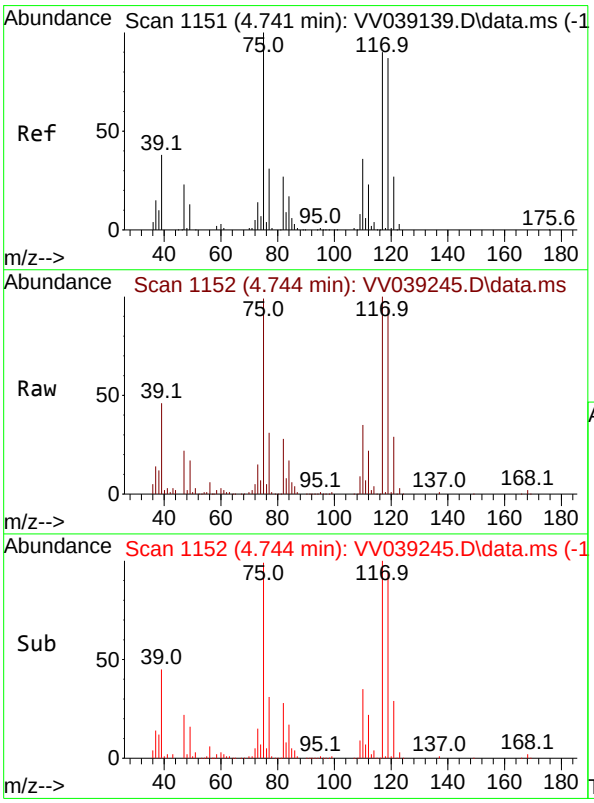
#35
Dibromofluoromethane
Concen: 49.618 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:113 Resp: 345571

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.4	123.6
192	18.1	13.8	20.8

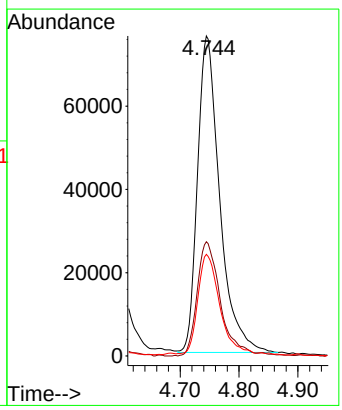


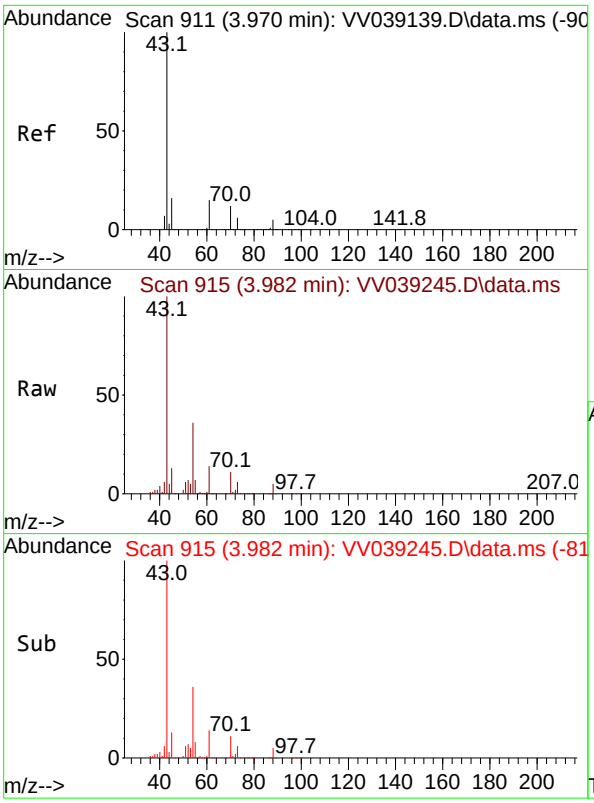


#36
1,1-Dichloropropene
Concen: 18.889 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 75 Resp: 198893

Ion	Ratio	Lower	Upper
75	100		
110	37.6	18.1	54.1
77	30.1	24.8	37.2



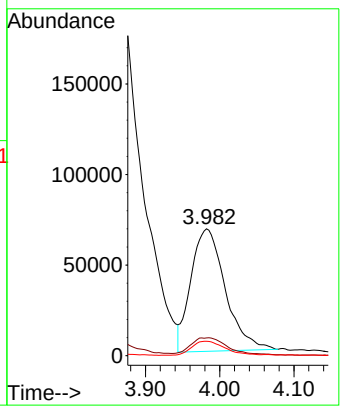


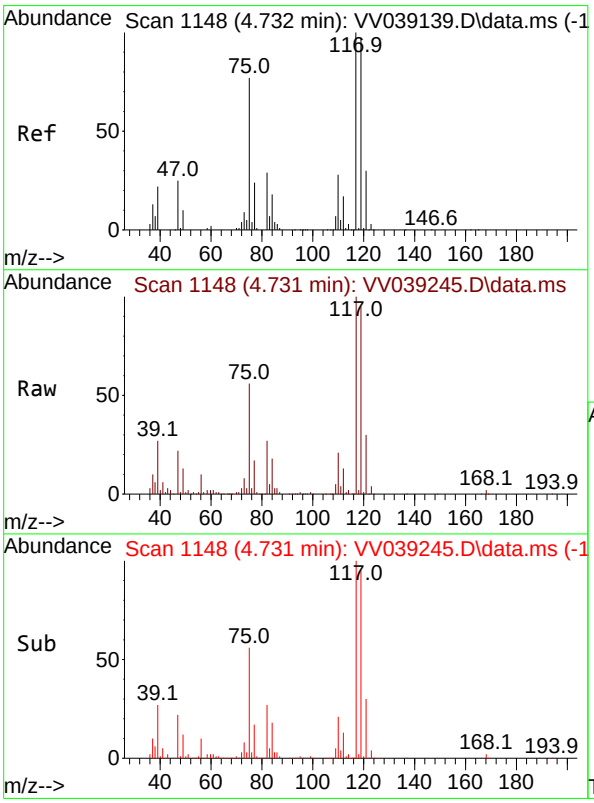
#37
Ethyl Acetate
Concen: 17.058 ug/l
RT: 3.982 min Scan# 91
Delta R.T. 0.012 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 43 Resp: 217952

Ion	Ratio	Lower	Upper
43	100		
61	5.0	10.3	15.5#
70	10.9	8.0	12.0

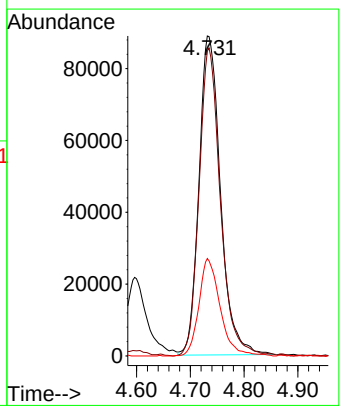


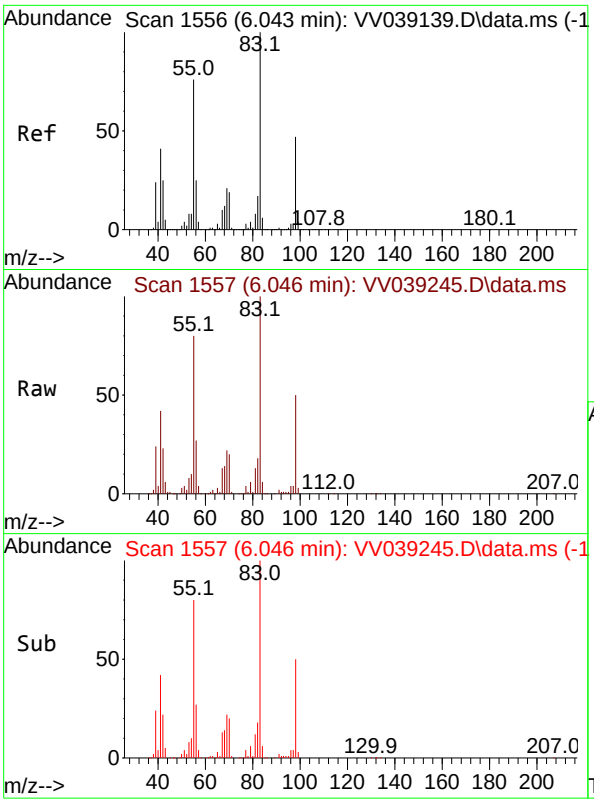


#38
Carbon Tetrachloride
Concen: 19.211 ug/l
RT: 4.731 min Scan# 1148
Delta R.T. -0.001 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:117 Resp: 247222

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.2	115.8
121	30.5	24.2	36.2



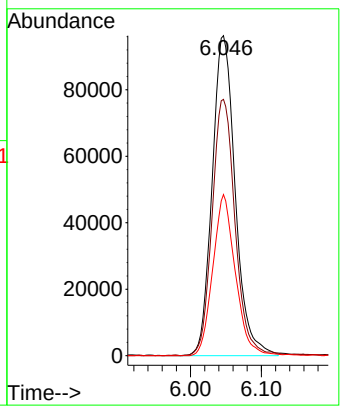


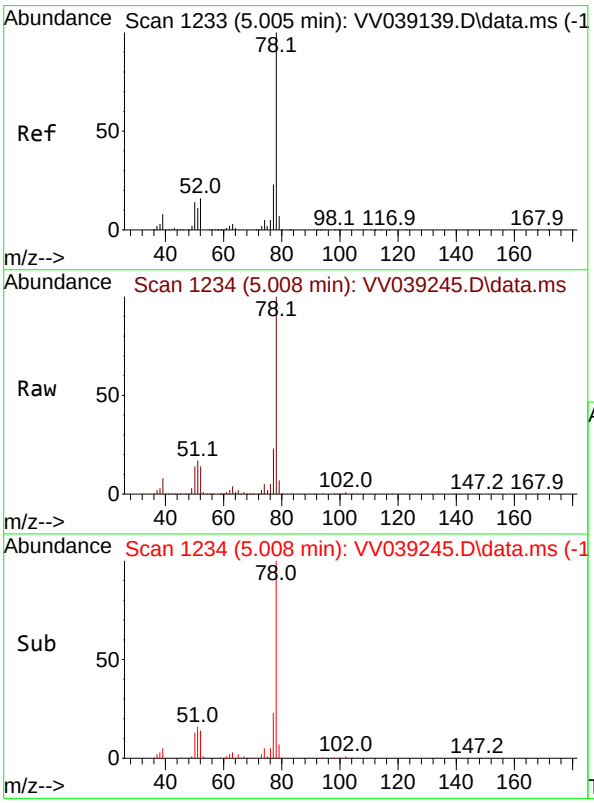
#39
Methylcyclohexane
Concen: 17.142 ug/l
RT: 6.046 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 83 Resp: 217981

Ion	Ratio	Lower	Upper
83	100		
55	79.9	60.5	90.7
98	50.4	37.8	56.6

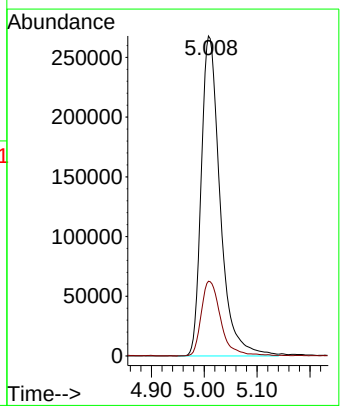


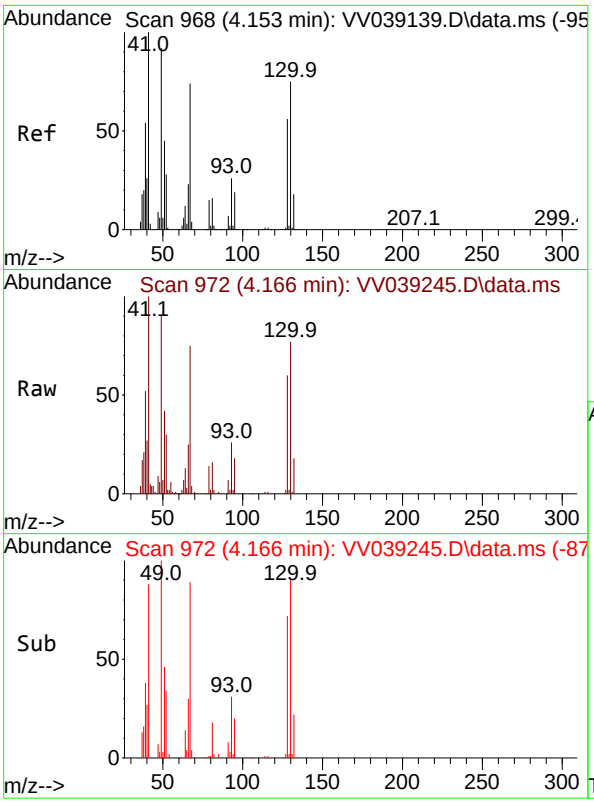


#40
Benzene
Concen: 19.375 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 78 Resp: 664341

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.7	28.1



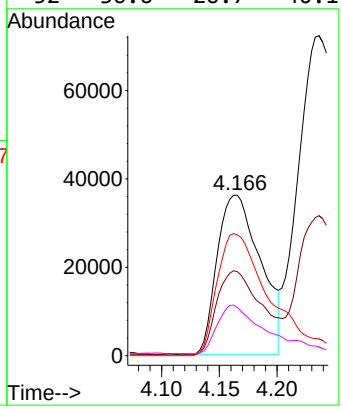


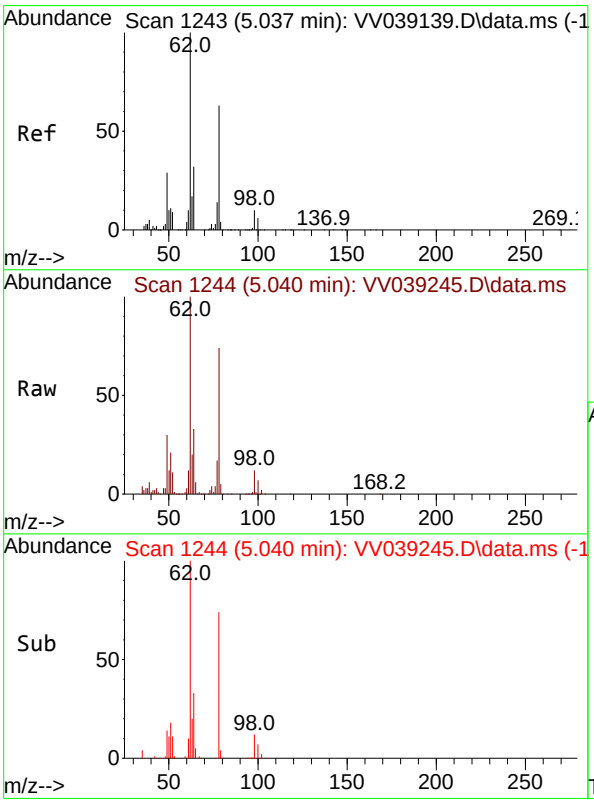
#41
Methacrylonitrile
Concen: 17.536 ug/l
RT: 4.166 min Scan# 9
Delta R.T. 0.013 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 41 Resp: 93853

Ion	Ratio	Lower	Upper
41	100		
39	55.5	42.2	63.2
67	96.3	67.9	101.9
52	36.6	26.7	40.1

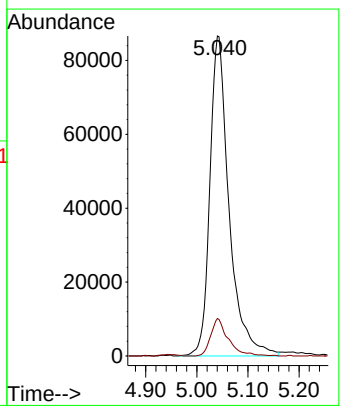


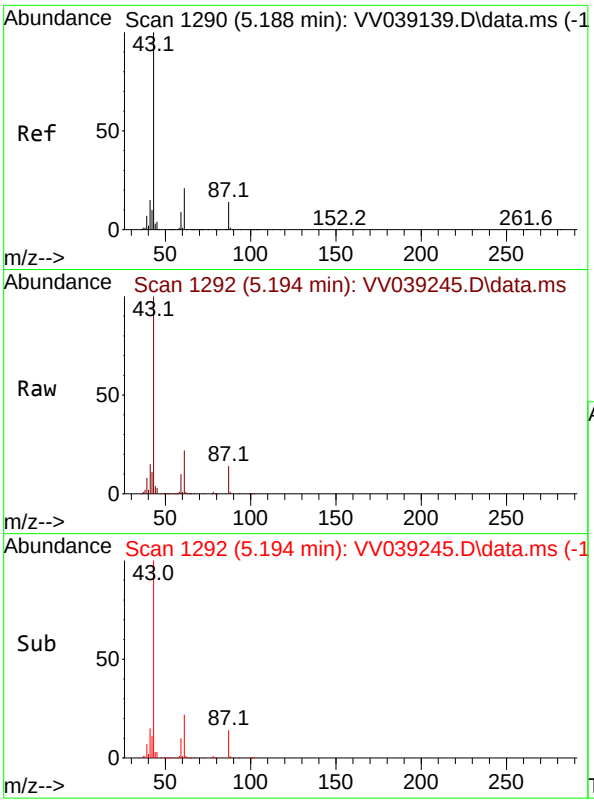


#42
1,2-Dichloroethane
Concen: 18.833 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 62 Resp: 226266

Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	19.2



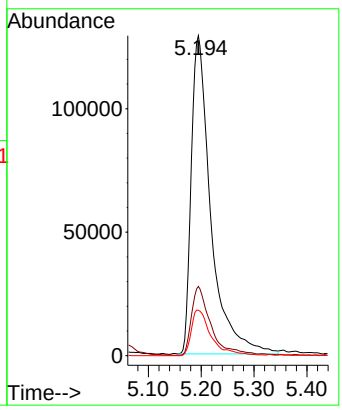


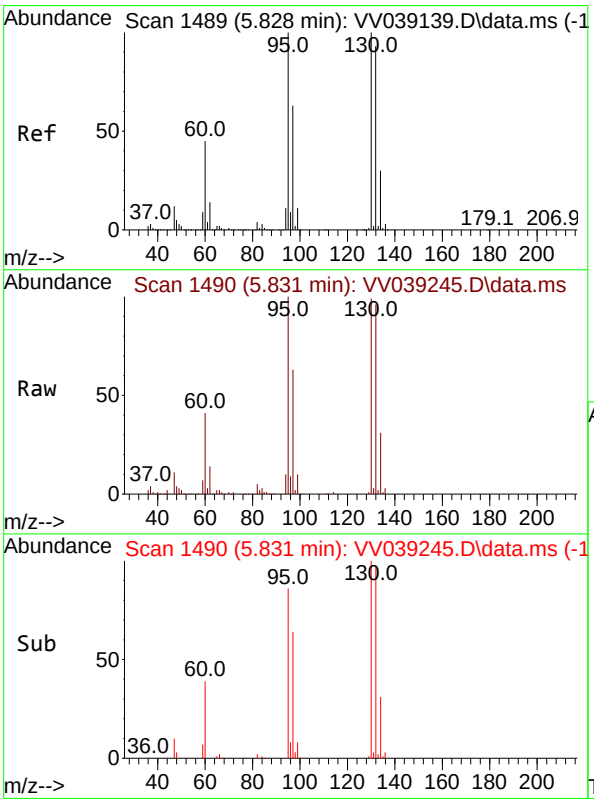
#43
Isopropyl Acetate
Concen: 19.018 ug/l
RT: 5.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 43 Resp: 331315

Ion	Ratio	Lower	Upper
43	100		
61	21.2	15.9	23.9
87	14.5	11.0	16.6

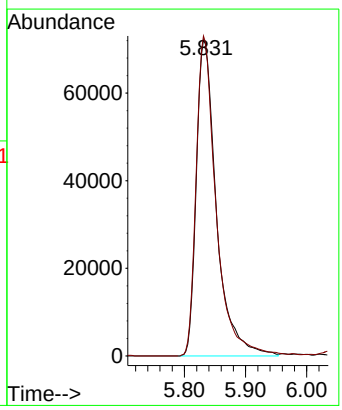


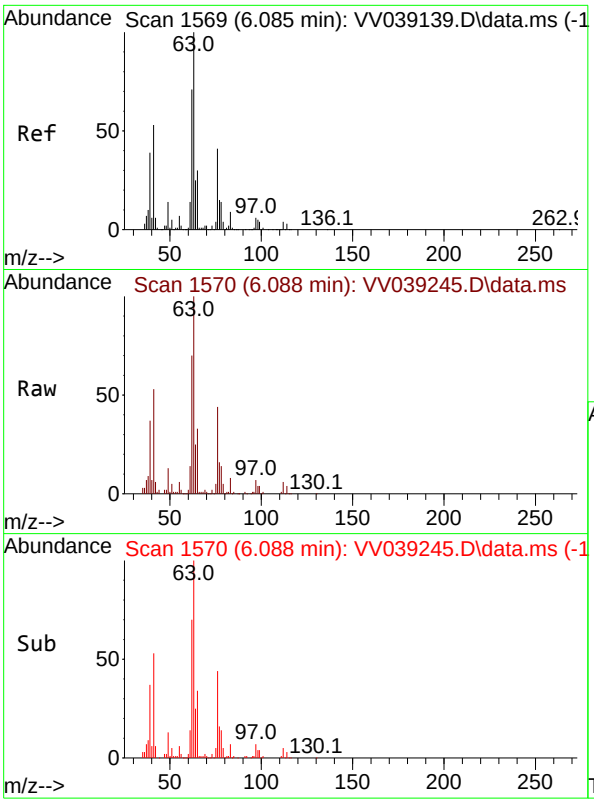


#44
Trichloroethene
Concen: 20.838 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:130 Resp: 164874

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	199.2



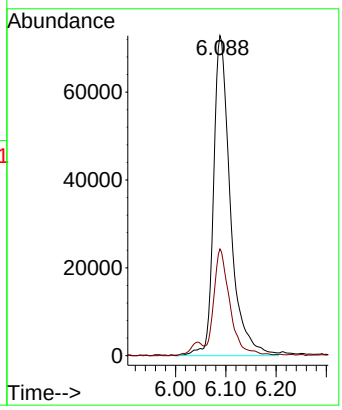


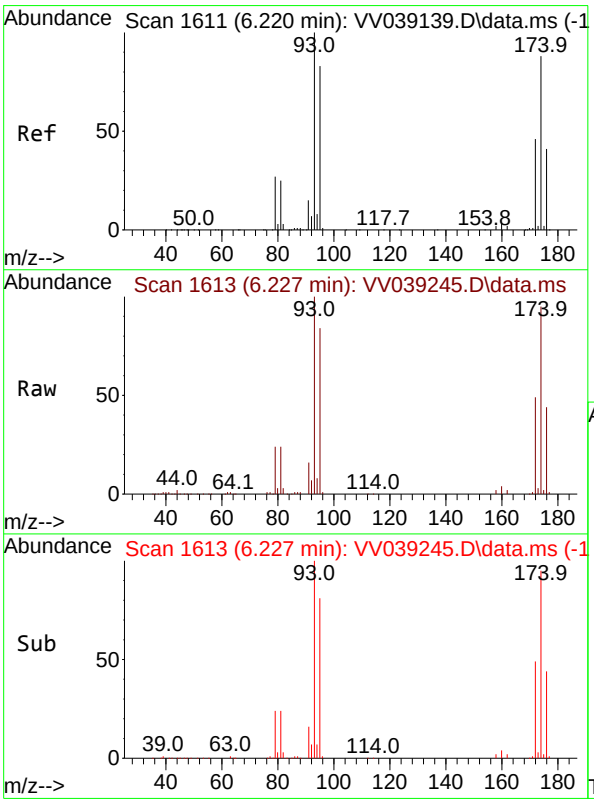
#45
1,2-Dichloropropane
Concen: 19.912 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 63 Resp: 169707

Ion	Ratio	Lower	Upper
63	100		
65	33.1	23.7	35.5

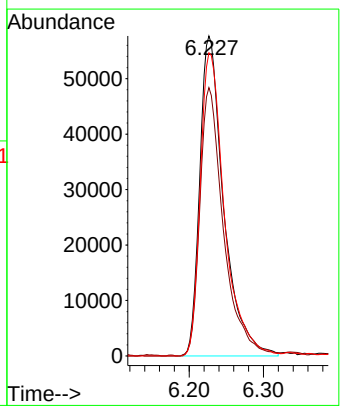


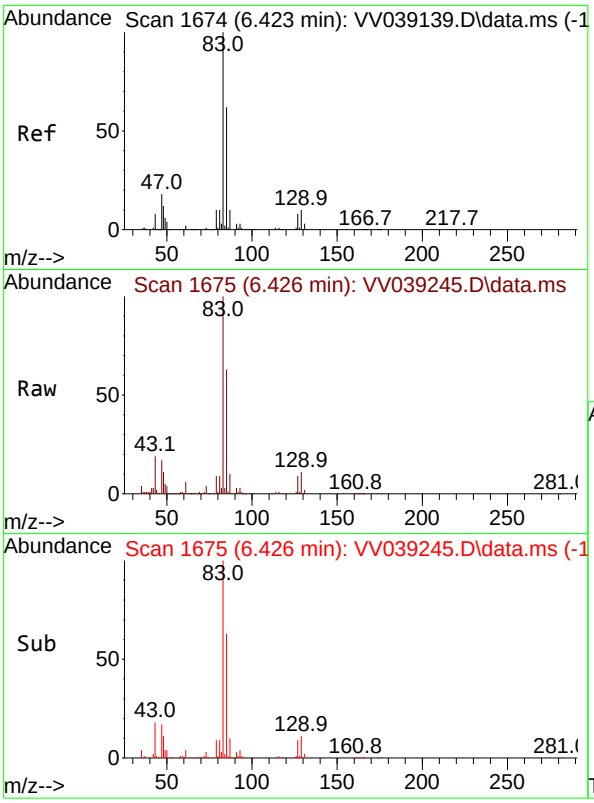


#46
Dibromomethane
Concen: 19.764 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 93 Resp: 128921

Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.5	98.3
174	96.1	69.0	103.4



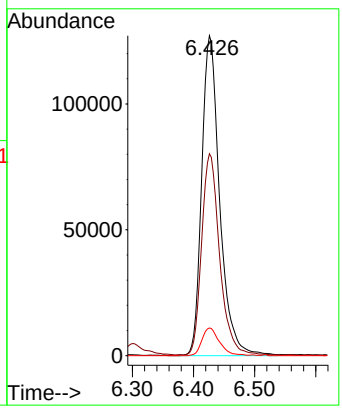


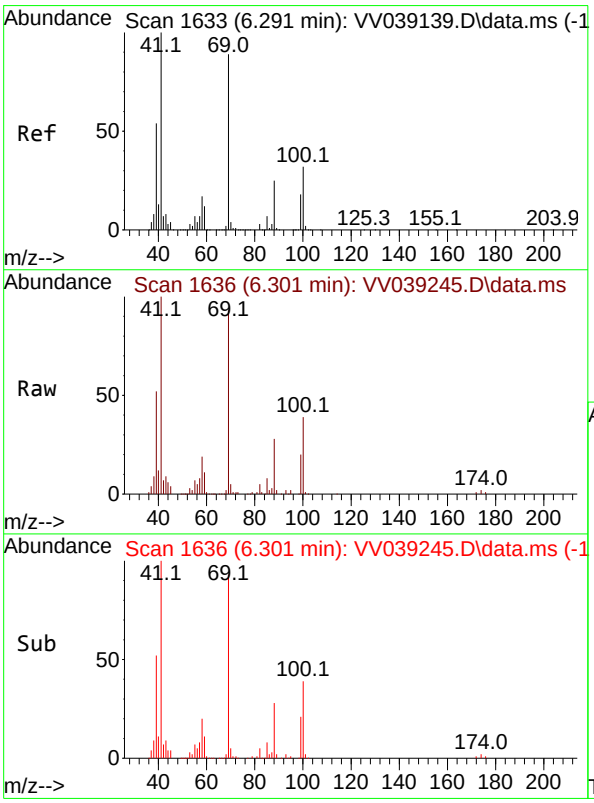
#47
Bromodichloromethane
Concen: 19.302 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 83 Resp: 260291

Ion	Ratio	Lower	Upper
83	100		
85	62.8	49.7	74.5
127	8.6	6.6	9.8

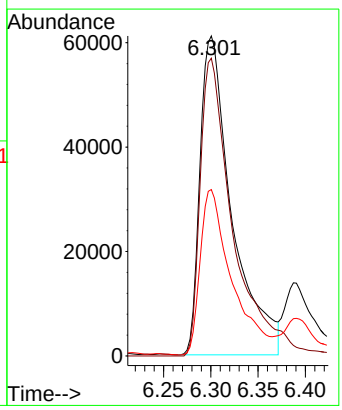


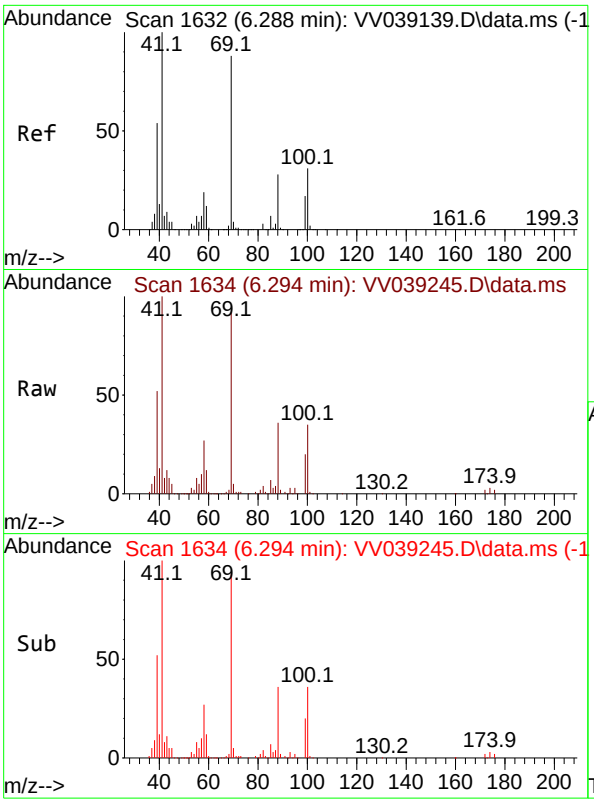


#48
Methyl methacrylate
Concen: 18.186 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 41 Resp: 143613

Ion	Ratio	Lower	Upper
41	100		
69	96.4	72.4	108.6
39	51.1	42.5	63.7



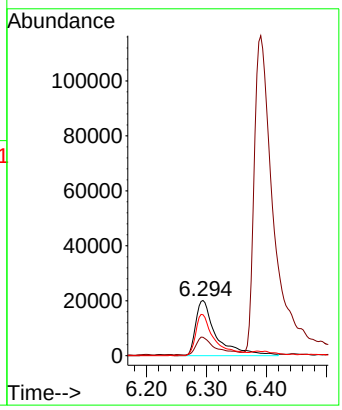


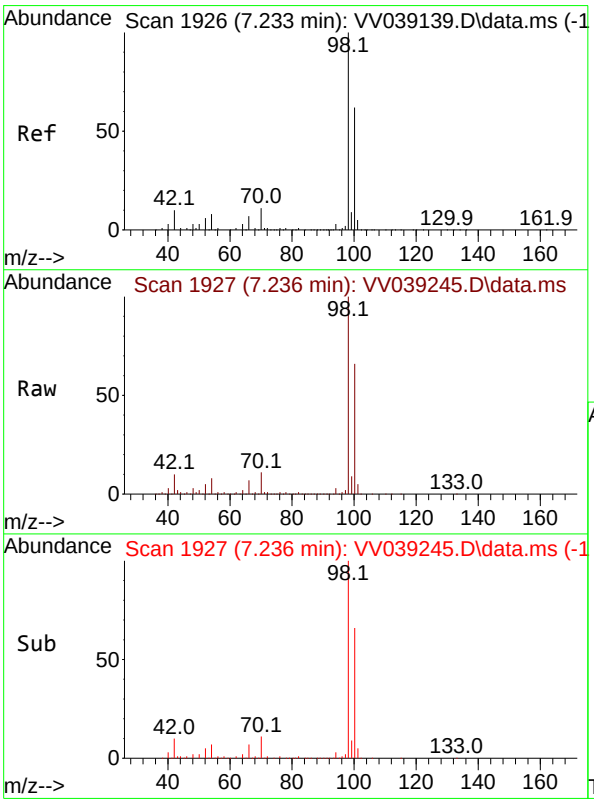
#49
1,4-Dioxane
Concen: 379.726 ug/l
RT: 6.294 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 88 Resp: 48393

Ion	Ratio	Lower	Upper
88	100		
43	30.6	25.1	37.7
58	67.2	53.6	80.4

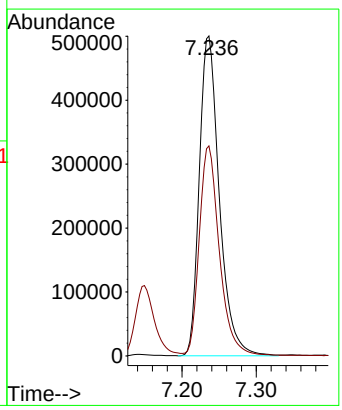


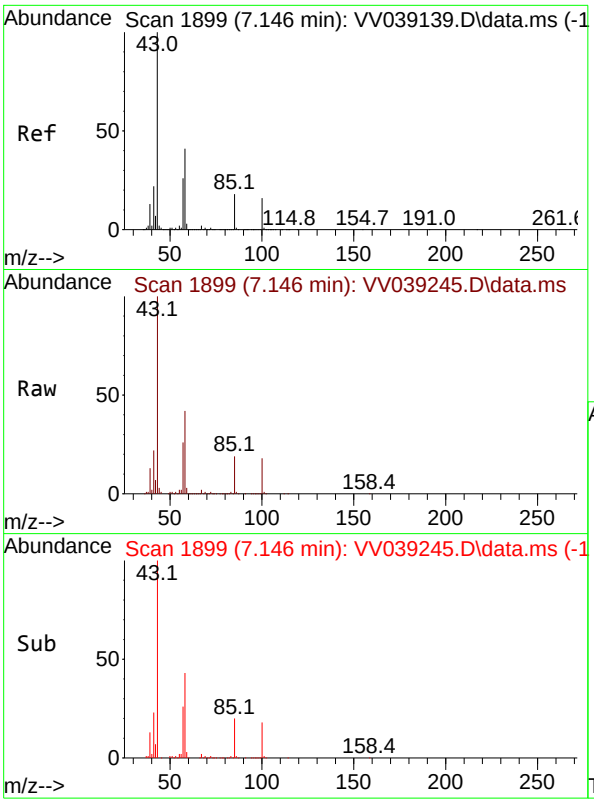


#50
Toluene-d8
Concen: 45.791 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 98 Resp: 936652

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.2	78.2



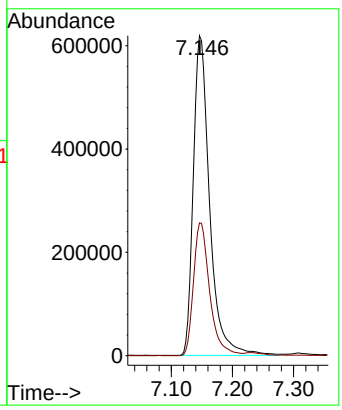


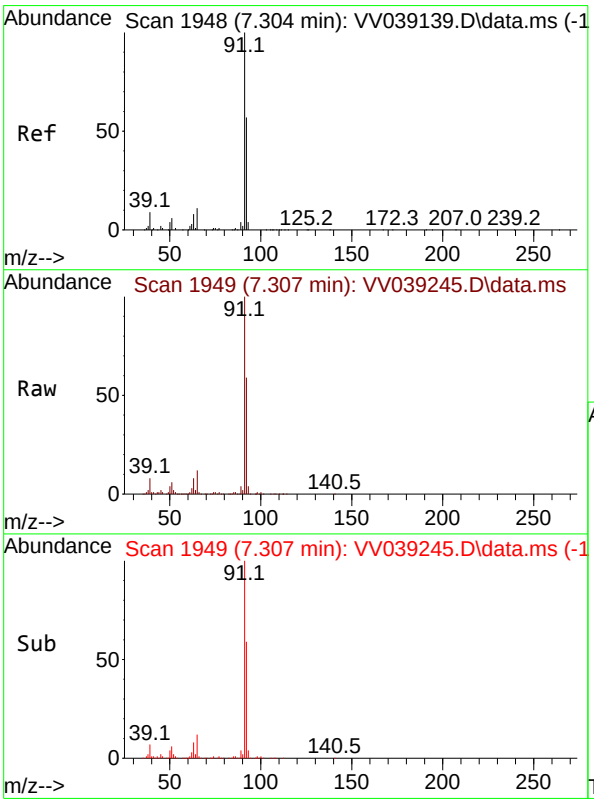
#51
4-Methyl-2-Pentanone
Concen: 100.178 ug/l
RT: 7.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 43 Resp: 1148145

Ion	Ratio	Lower	Upper
43	100		
58	41.2	32.3	48.5

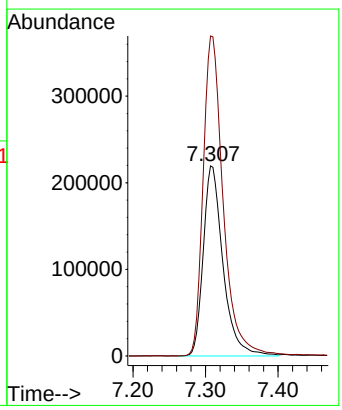


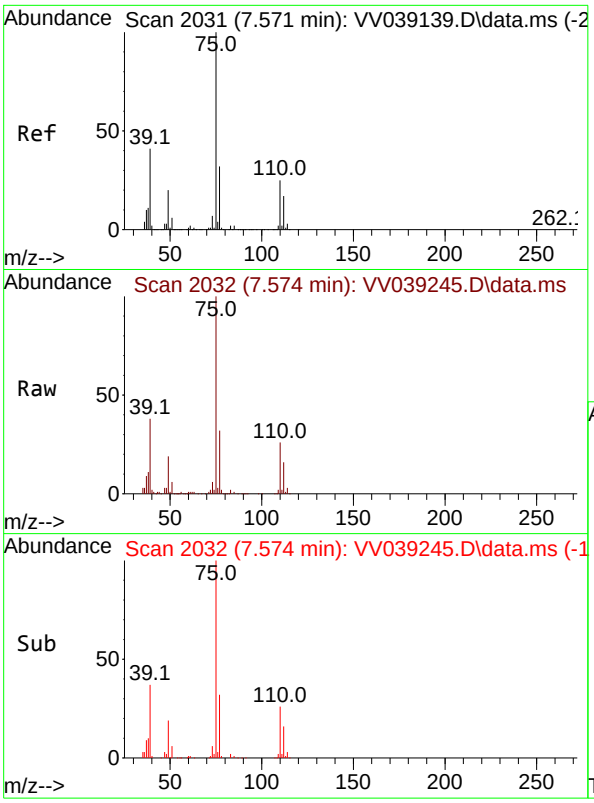


#52
Toluene
Concen: 20.916 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 92 Resp: 415826

Ion	Ratio	Lower	Upper
92	100		
91	171.2	139.2	208.8



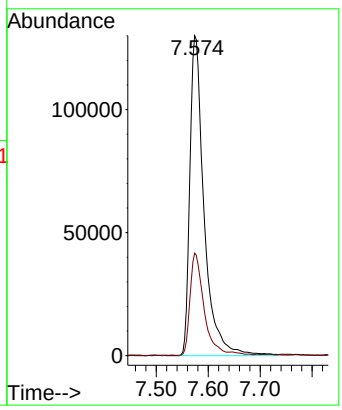


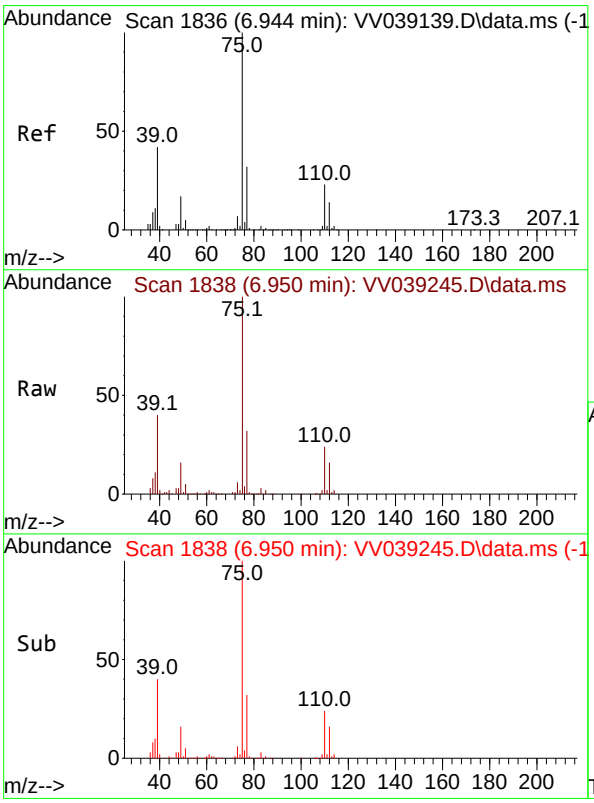
#53
t-1,3-Dichloropropene
Concen: 21.080 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 75 Resp: 247740

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.9	38.9

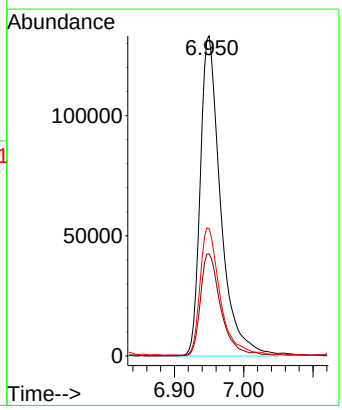


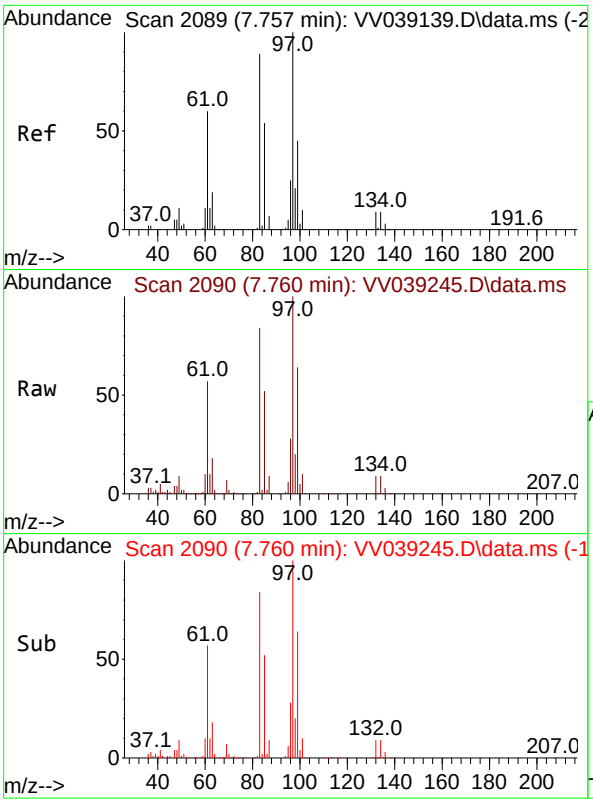


#54
cis-1,3-Dichloropropene
Concen: 20.933 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 75 Resp: 271589

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.5	38.3
39	39.5	33.8	50.6



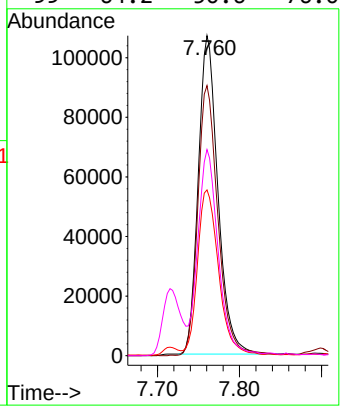


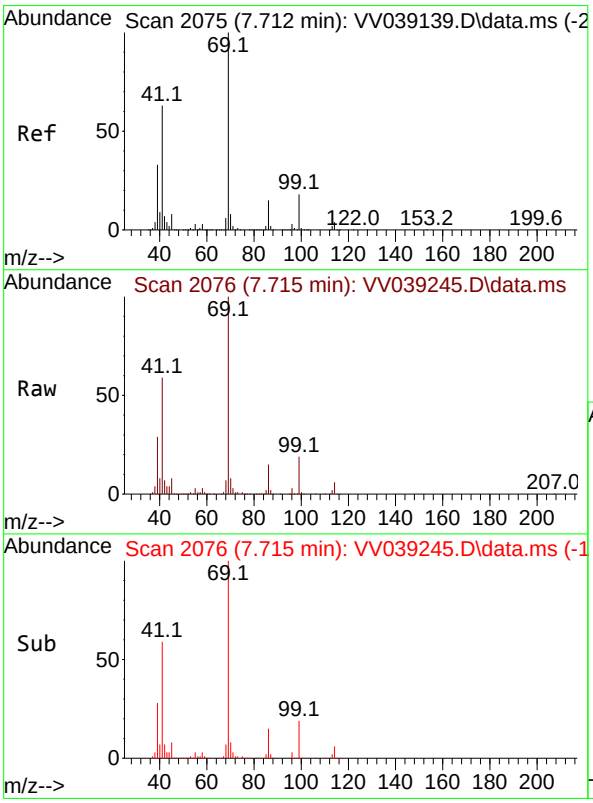
#55
1,1,2-Trichloroethane
Concen: 19.974 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 97 Resp: 178056

Ion	Ratio	Lower	Upper
97	100		
83	84.6	71.1	106.7
85	51.7	44.6	67.0
99	64.2	50.6	76.0

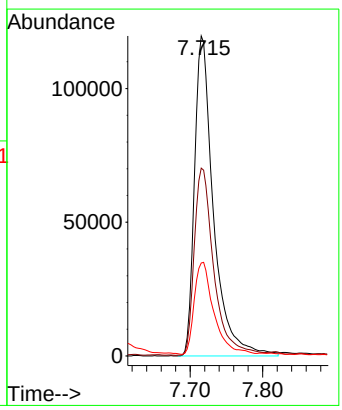


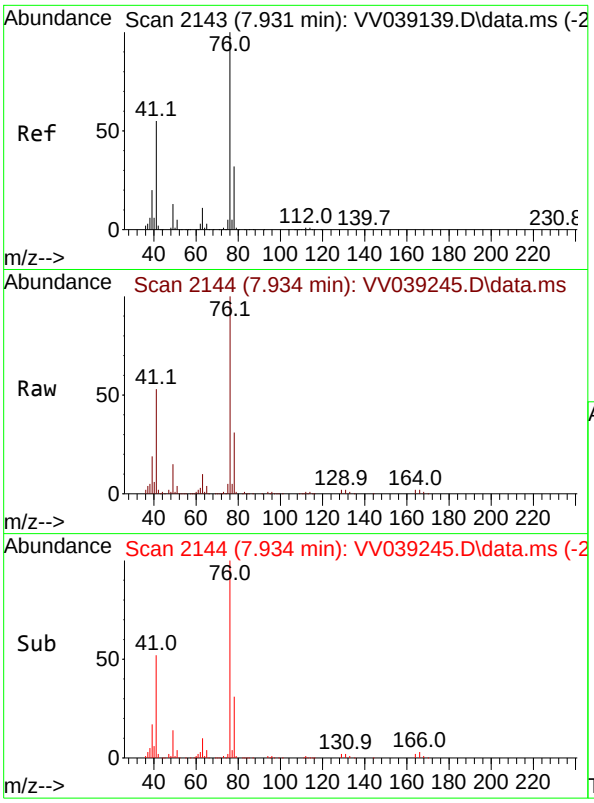


#56
Ethyl methacrylate
Concen: 20.572 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 69 Resp: 217780

Ion	Ratio	Lower	Upper
69	100		
41	60.1	50.7	76.1
39	29.5	26.0	39.0



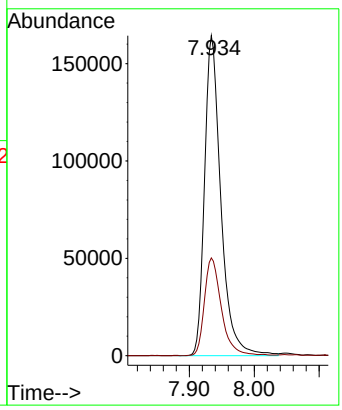


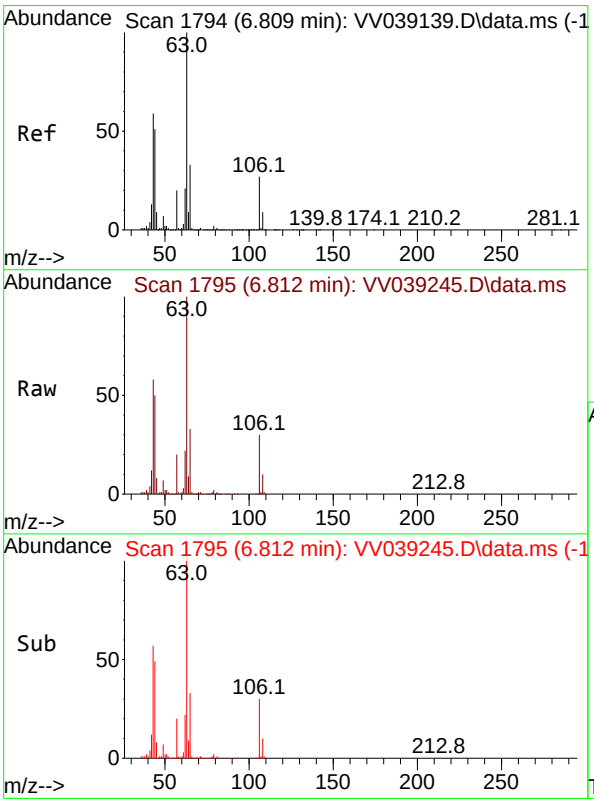
#57
1,3-Dichloropropane
Concen: 20.470 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 76 Resp: 287981

Ion	Ratio	Lower	Upper
76	100		
78	31.6	26.1	39.1

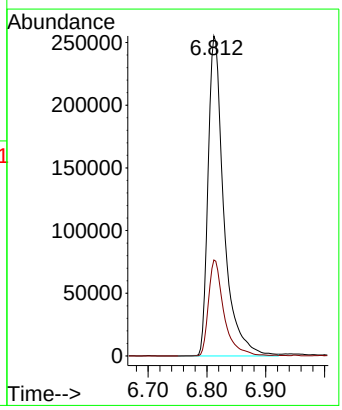


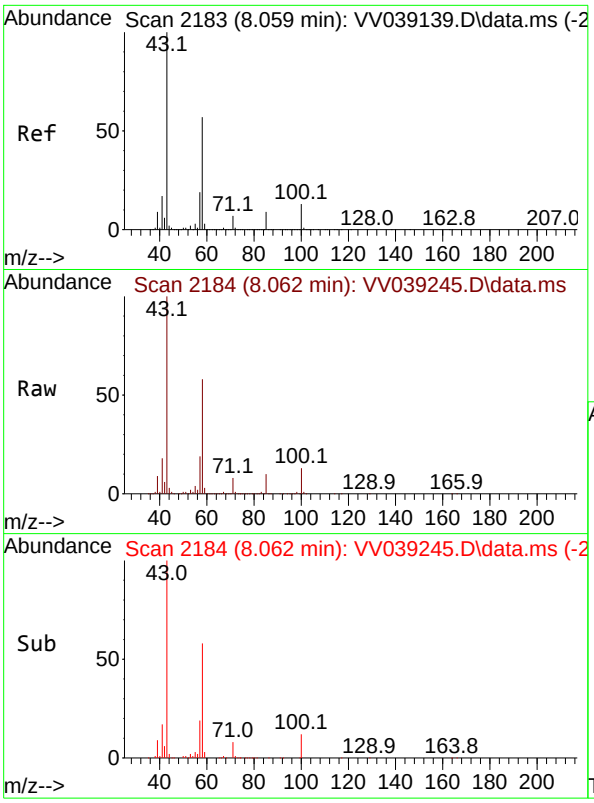


#58
2-Chloroethyl Vinyl ether
Concen: 86.041 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 63 Resp: 475072

Ion	Ratio	Lower	Upper
63	100		
106	29.5	22.1	33.1



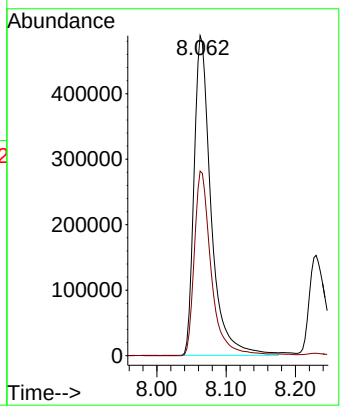


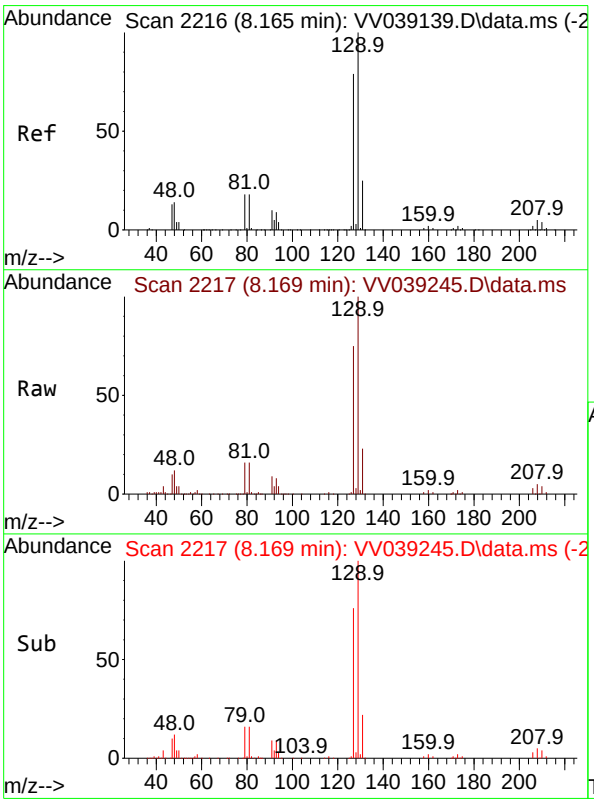
#59
2-Hexanone
Concen: 91.844 ug/l
RT: 8.062 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 43 Resp: 835938

Ion	Ratio	Lower	Upper
43	100		
58	57.2	28.3	85.0

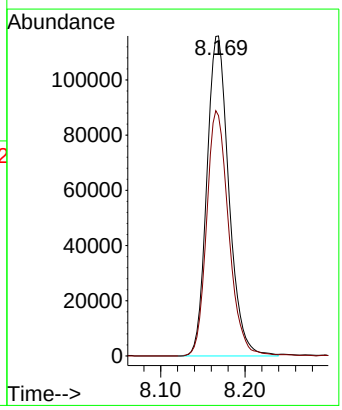


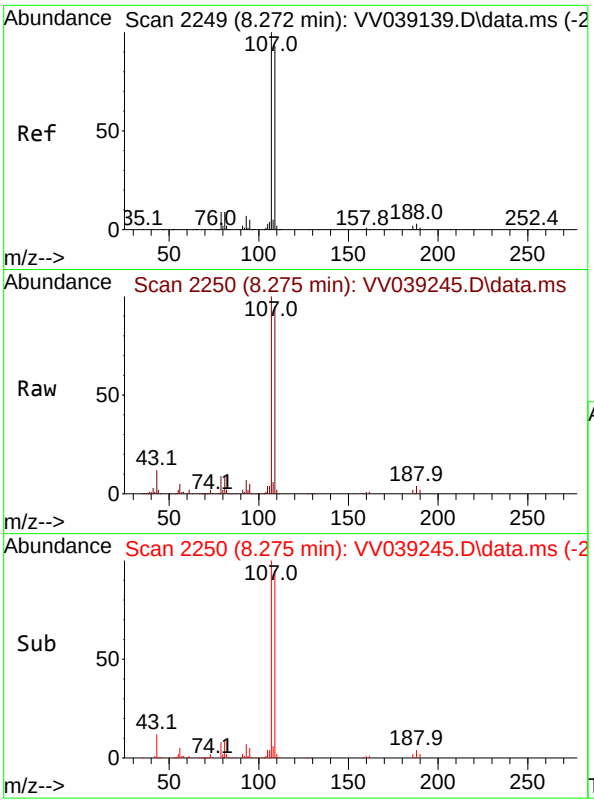


#60
Dibromochloromethane
Concen: 20.720 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:129 Resp: 210459

Ion	Ratio	Lower	Upper
129	100		
127	76.9	39.3	117.9



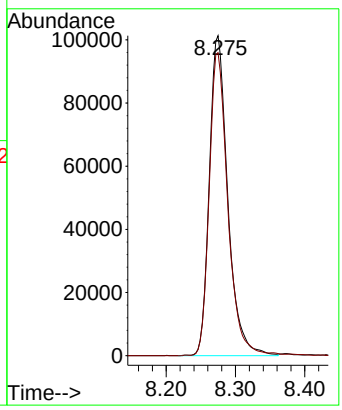


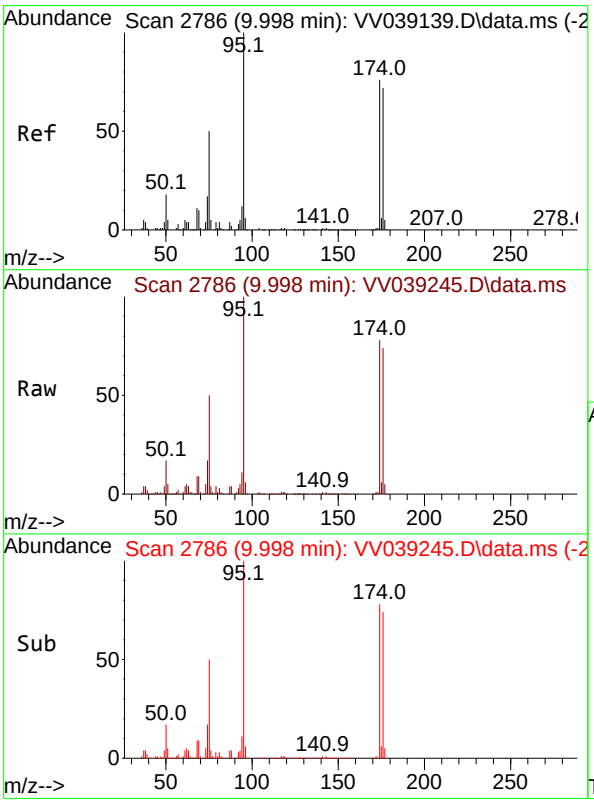
#61
1,2-Dibromoethane
Concen: 20.559 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:107 Resp: 187426

Ion	Ratio	Lower	Upper
107	100		
109	94.5	74.6	112.0

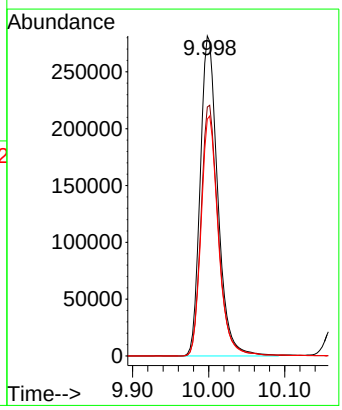


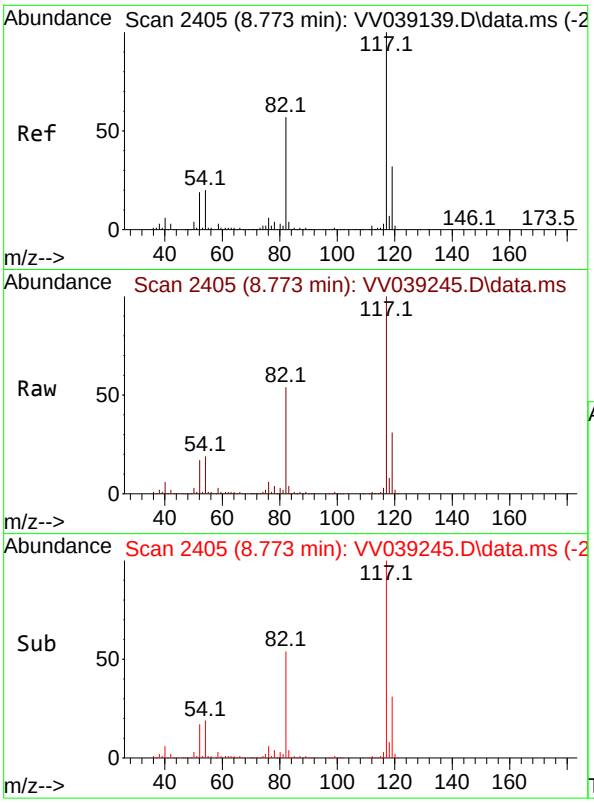


#62
4-Bromofluorobenzene
Concen: 53.433 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 95 Resp: 449945

Ion	Ratio	Lower	Upper
95	100		
174	77.5	0.0	150.4
176	74.0	0.0	144.2



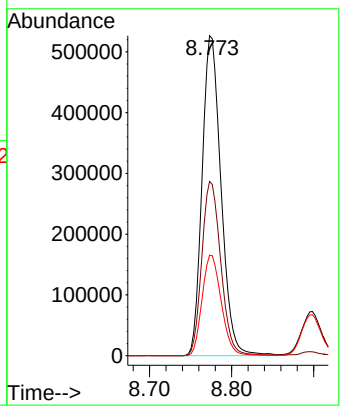


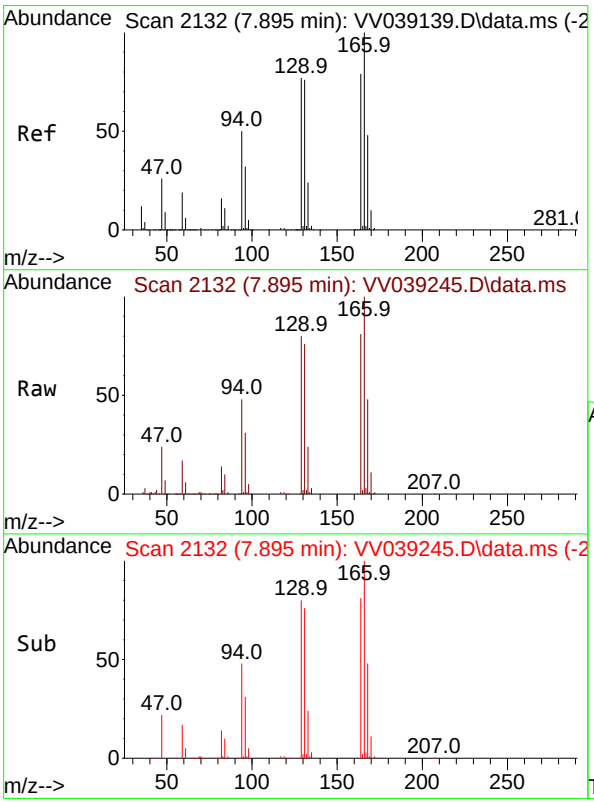
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:117 Resp: 845304

Ion	Ratio	Lower	Upper
117	100		
82	54.4	45.4	68.2
119	31.4	25.6	38.4

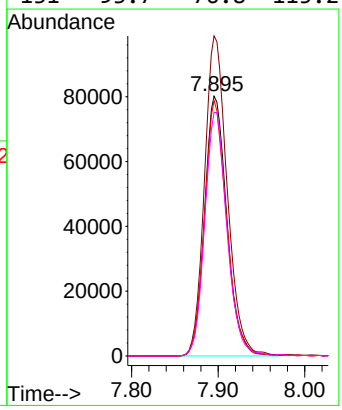


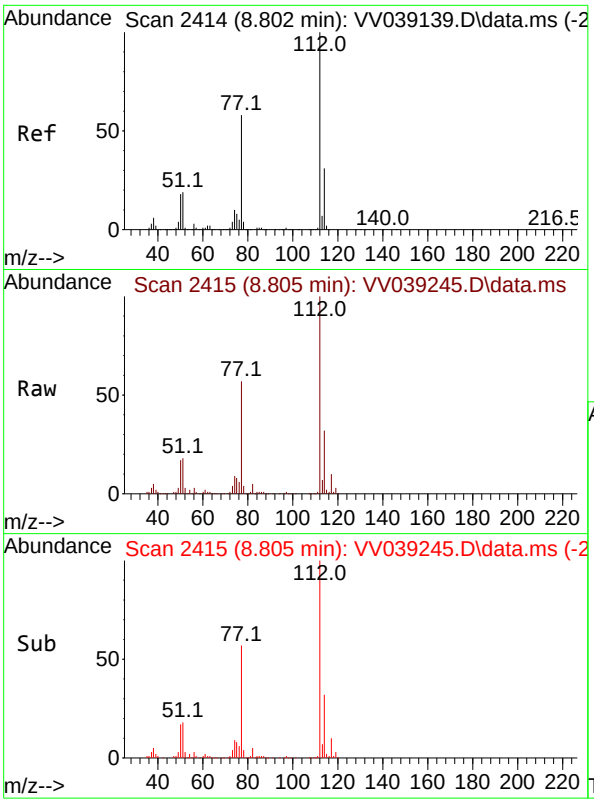


#64
Tetrachloroethene
Concen: 20.312 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:164 Resp: 143810

Ion	Ratio	Lower	Upper
164	100		
166	123.1	101.6	152.4
129	98.3	78.5	117.7
131	93.7	76.8	115.2



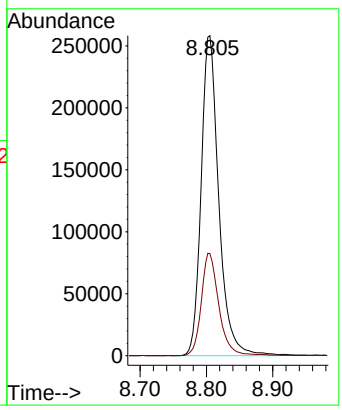


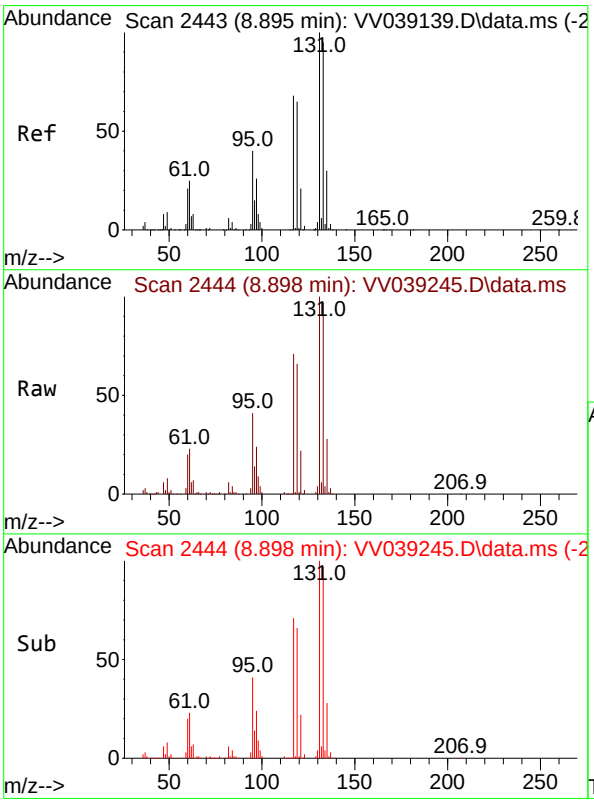
#65
Chlorobenzene
Concen: 20.230 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:112 Resp: 476325

Ion	Ratio	Lower	Upper
112	100		
114	31.9	24.6	37.0

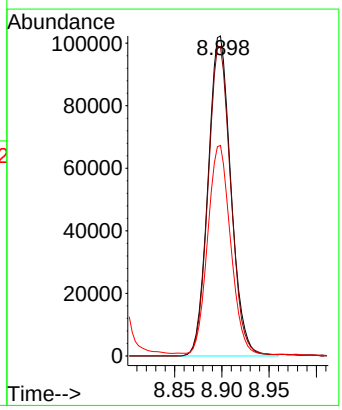


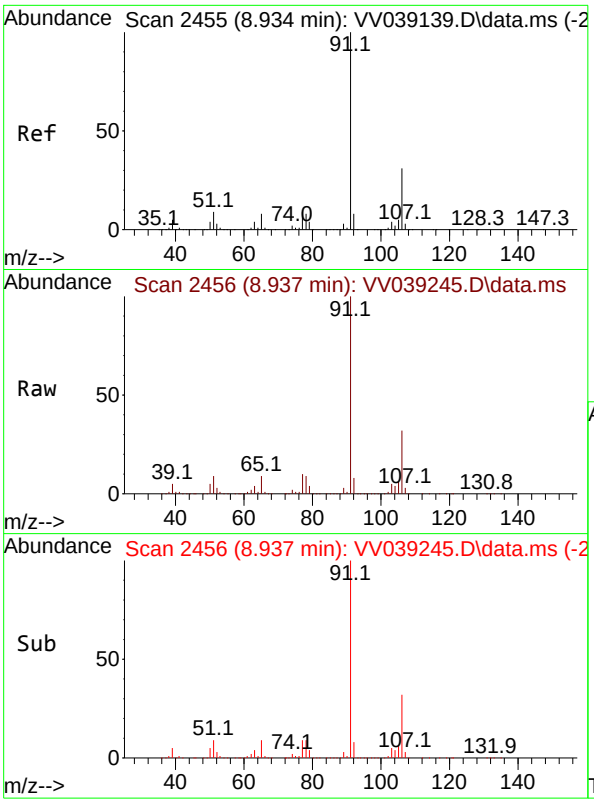


#66
1,1,1,2-Tetrachloroethane
Concen: 20.263 ug/l
RT: 8.898 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:131 Resp: 172386

Ion	Ratio	Lower	Upper
131	100		
133	96.0	47.3	141.8
119	65.5	33.3	99.8



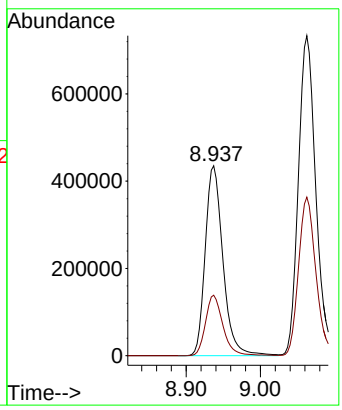


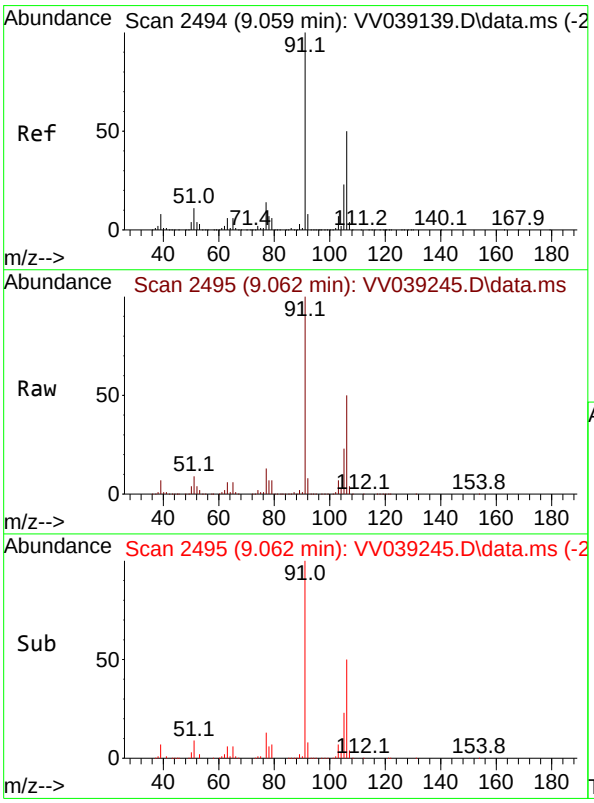
#67
Ethyl Benzene
Concen: 20.218 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 91 Resp: 720606

Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.6	37.0

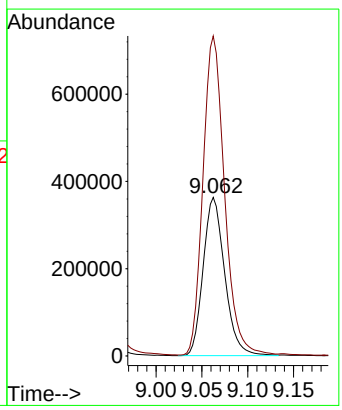


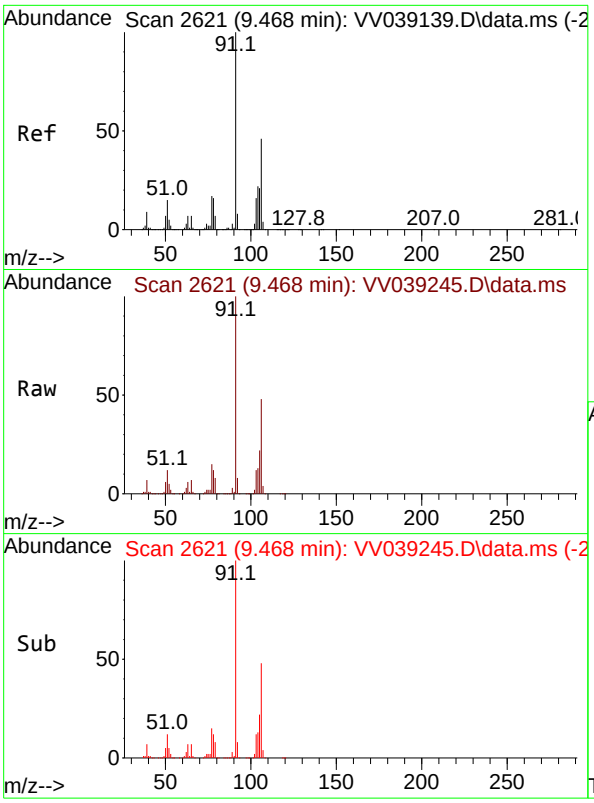


#68
m/p-Xylenes
Concen: 43.093 ug/l
RT: 9.062 min Scan# 2495
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:106 Resp: 592787

Ion	Ratio	Lower	Upper
106	100		
91	201.4	162.5	243.7



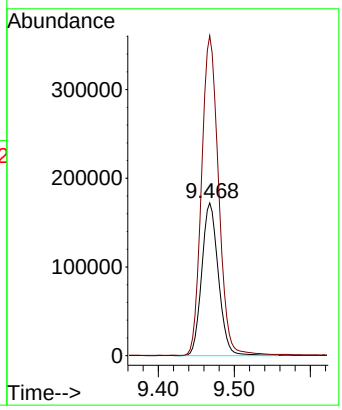


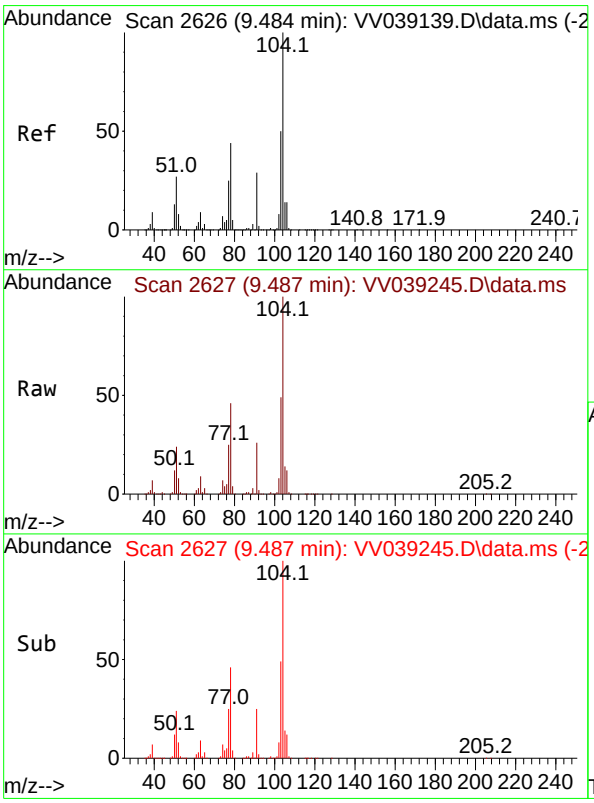
#69
o-Xylene
Concen: 21.510 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:106 Resp: 261997

Ion	Ratio	Lower	Upper
106	100		
91	213.6	109.1	327.3

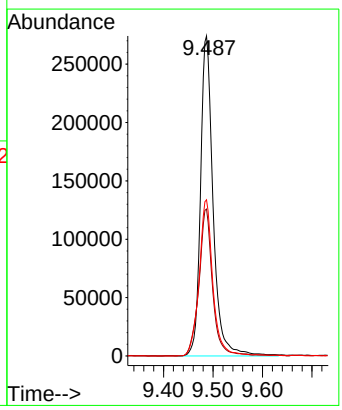


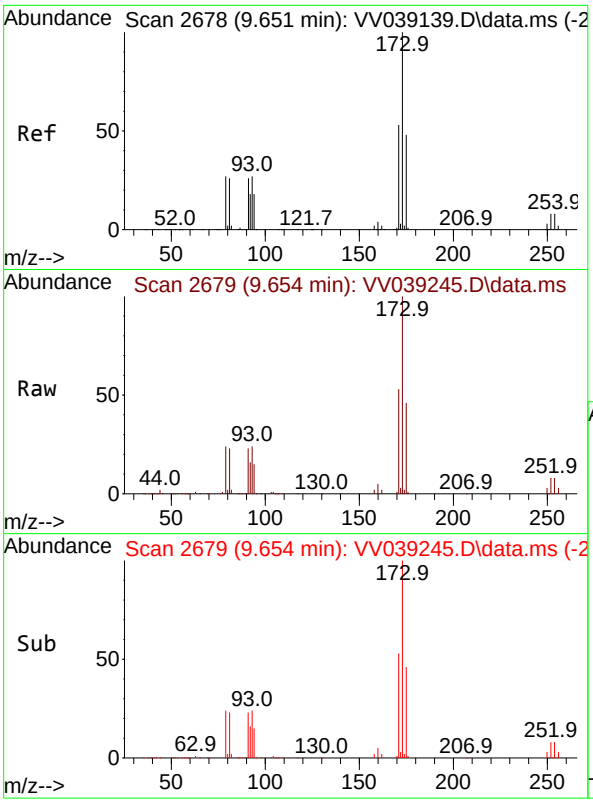


#70
Styrene
Concen: 19.731 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:104 Resp: 486013

Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.8	59.6
103	53.1	43.4	65.2



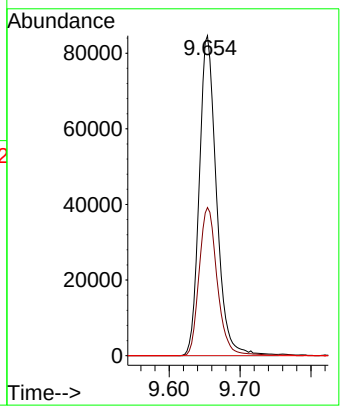


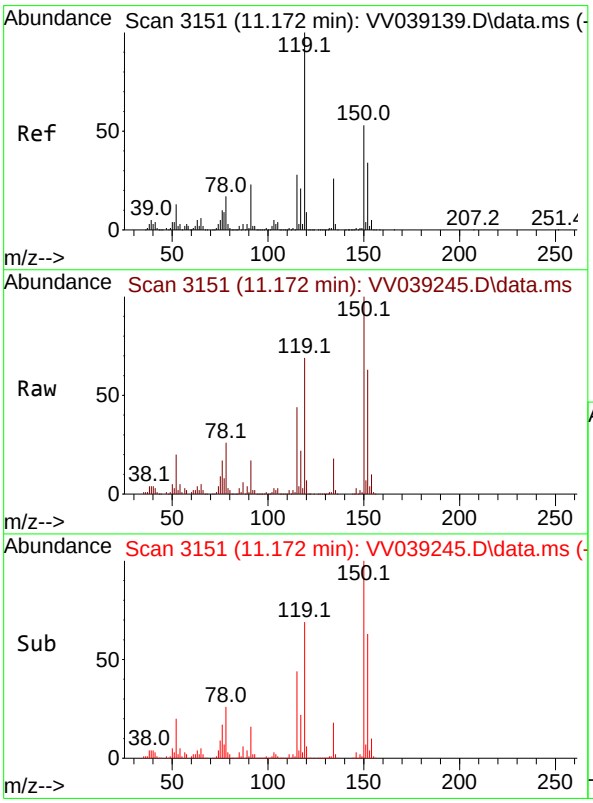
#71
Bromoform
Concen: 21.480 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:173 Resp: 142741

Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.9	71.7
254	0.0	0.1	0.1#

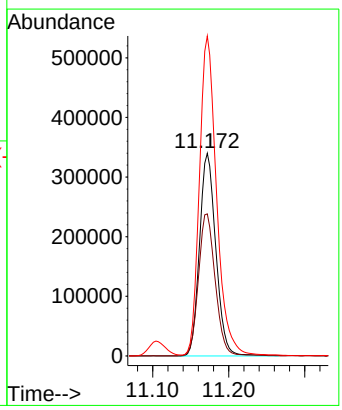


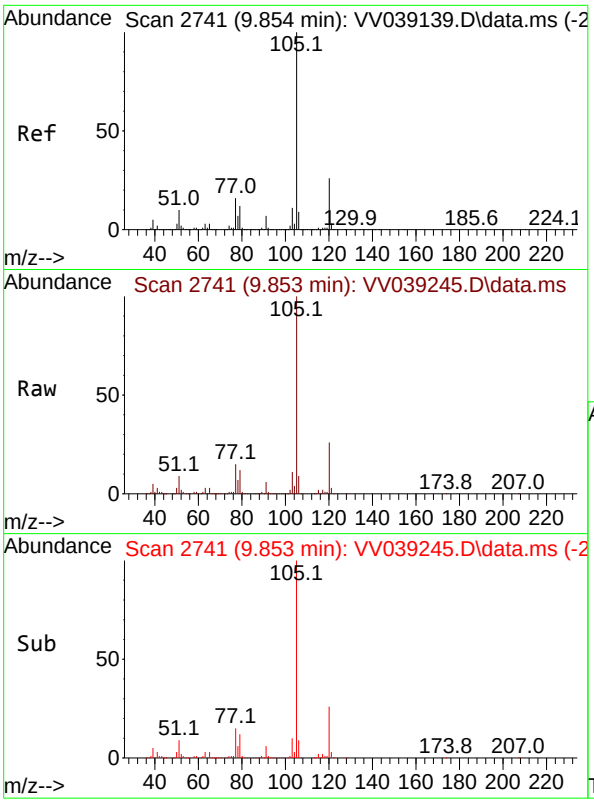


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:152 Resp: 506399

Ion	Ratio	Lower	Upper
152	100		
115	72.0	44.8	134.4
150	166.3	0.0	353.8



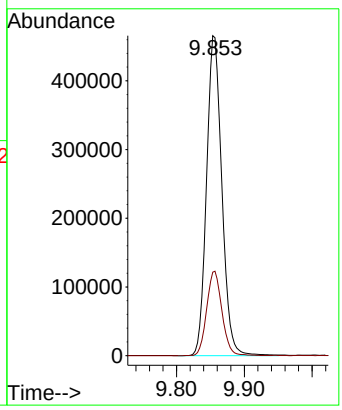


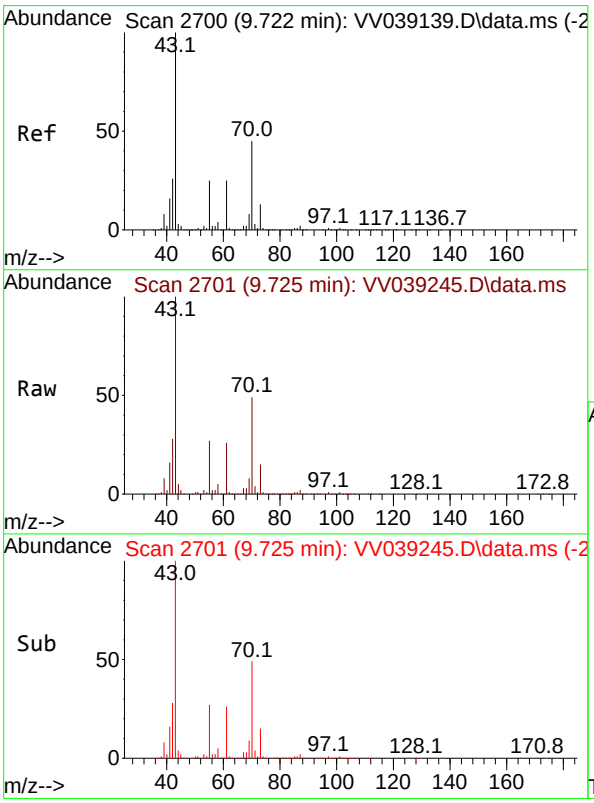
#73
Isopropylbenzene
Concen: 19.881 ug/l
RT: 9.853 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:105 Resp: 730232

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.1	39.1

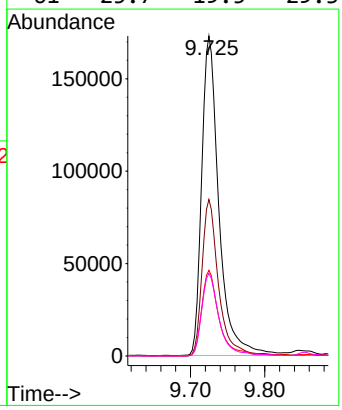


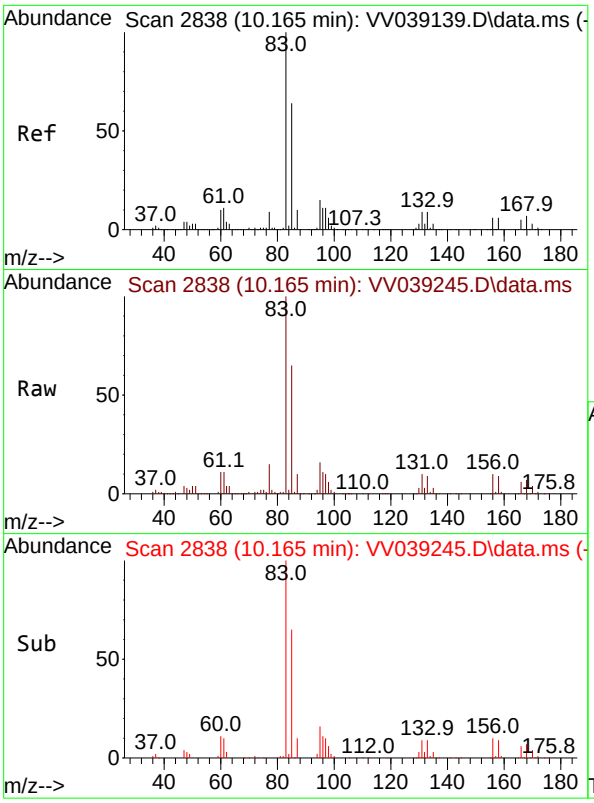


#74
N-amyl acetate
Concen: 18.957 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 43 Resp: 277738

Ion	Ratio	Lower	Upper
43	100		
70	46.7	35.4	53.0
55	27.0	20.6	30.8
61	25.7	19.5	29.3



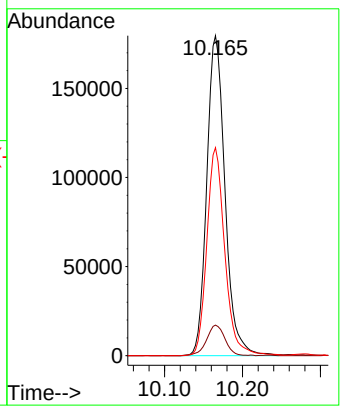


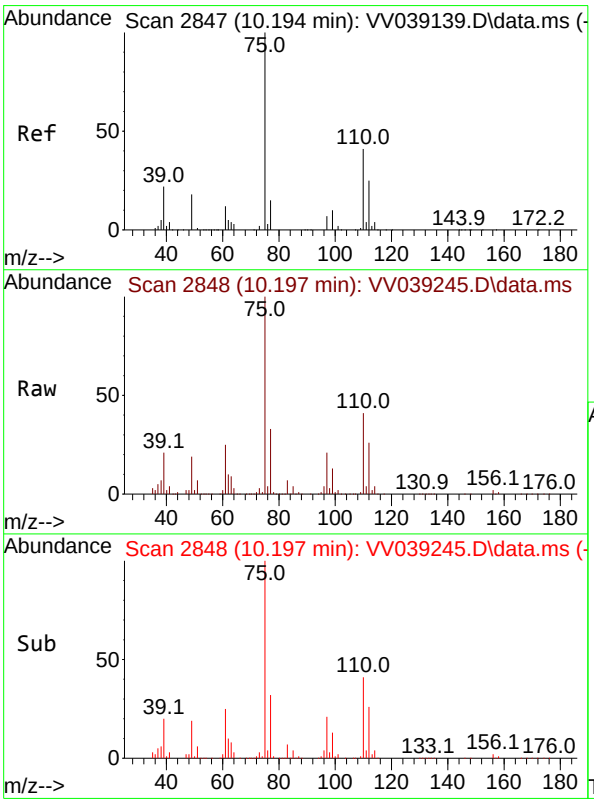
#75
1,1,2,2-Tetrachloroethane
Concen: 18.156 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 83 Resp: 292188

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.5	13.7
85	64.2	31.9	95.9

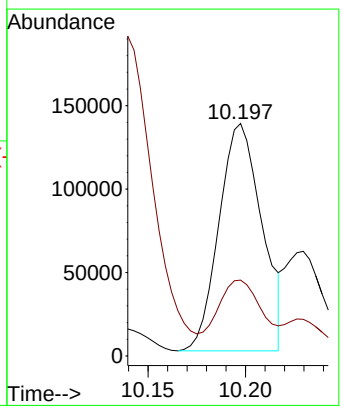


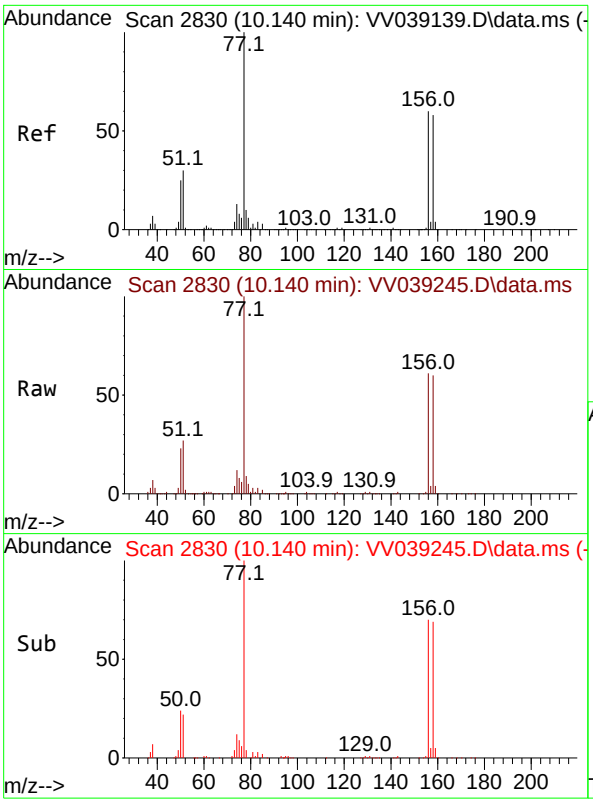


#76
1,2,3-Trichloropropane
Concen: 18.111 ug/l
RT: 10.197 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 75 Resp: 208818

Ion	Ratio	Lower	Upper
75	100		
77	21.2	11.3	33.8



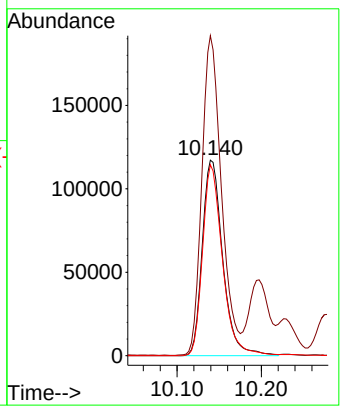


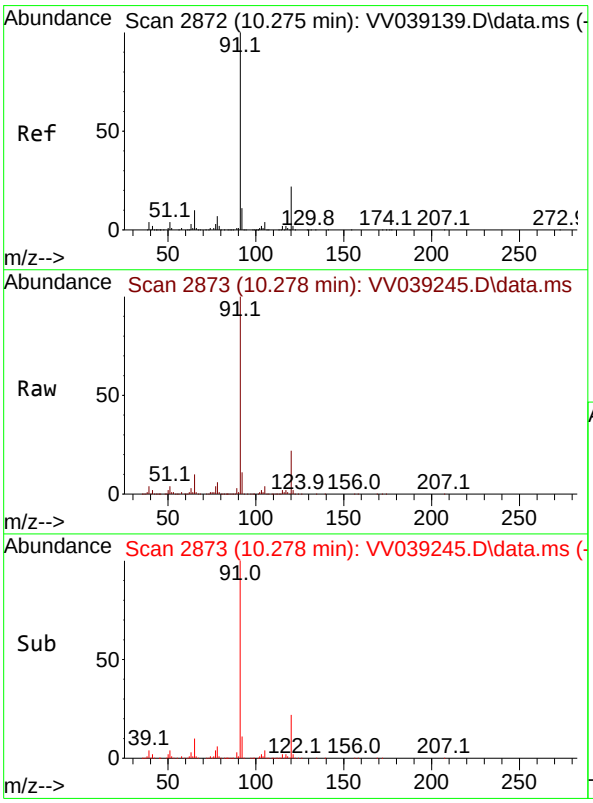
#77
Bromobenzene
Concen: 20.761 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:156 Resp: 197841

Ion	Ratio	Lower	Upper
156	100		
77	156.6	83.4	250.1
158	95.2	48.8	146.4

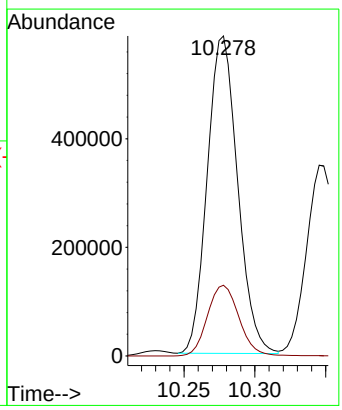


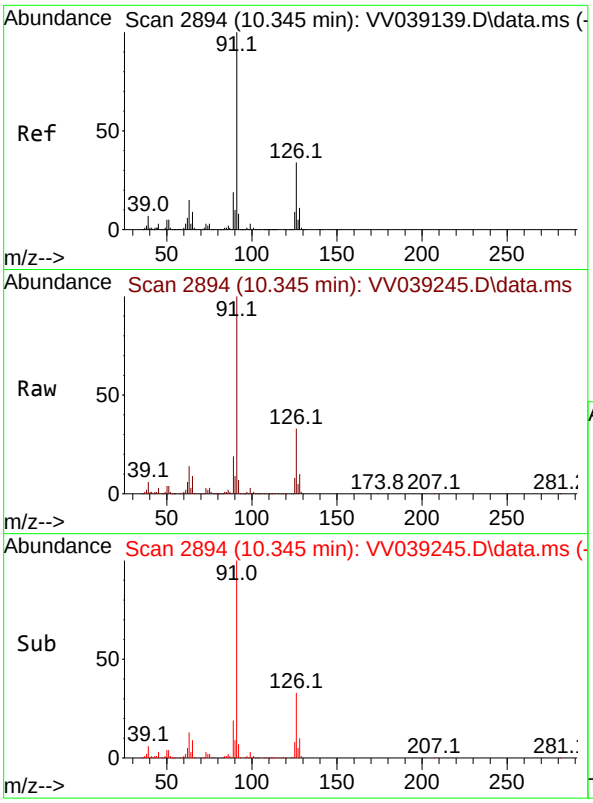


#78
n-propylbenzene
Concen: 19.466 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 91 Resp: 870650

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.1	33.3



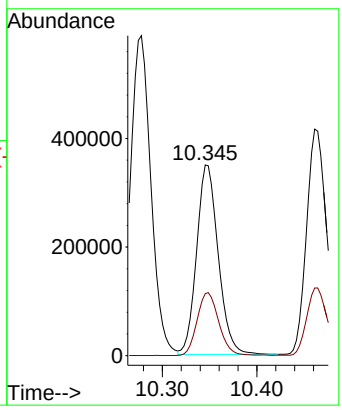


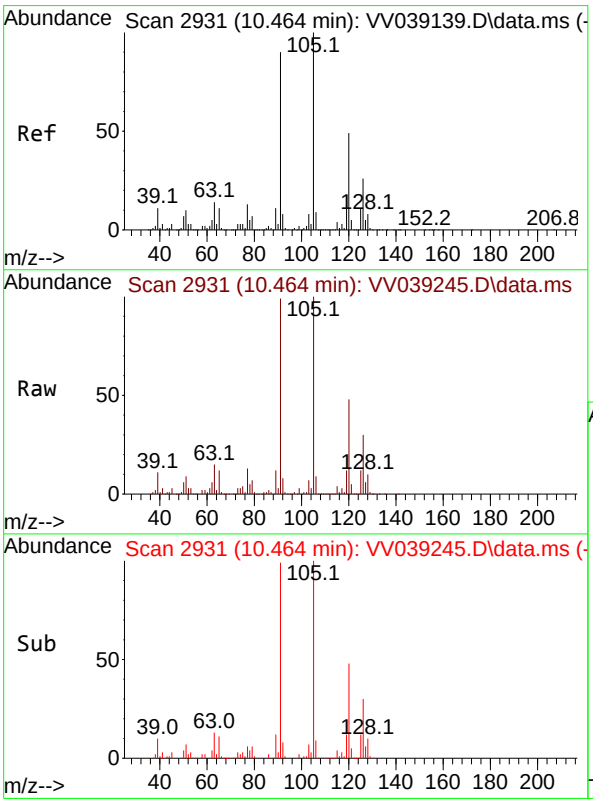
#79
2-Chlorotoluene
Concen: 20.649 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 91 Resp: 552648

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.0

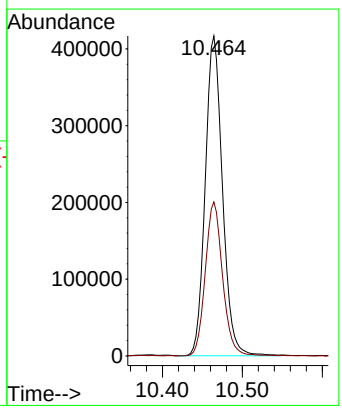


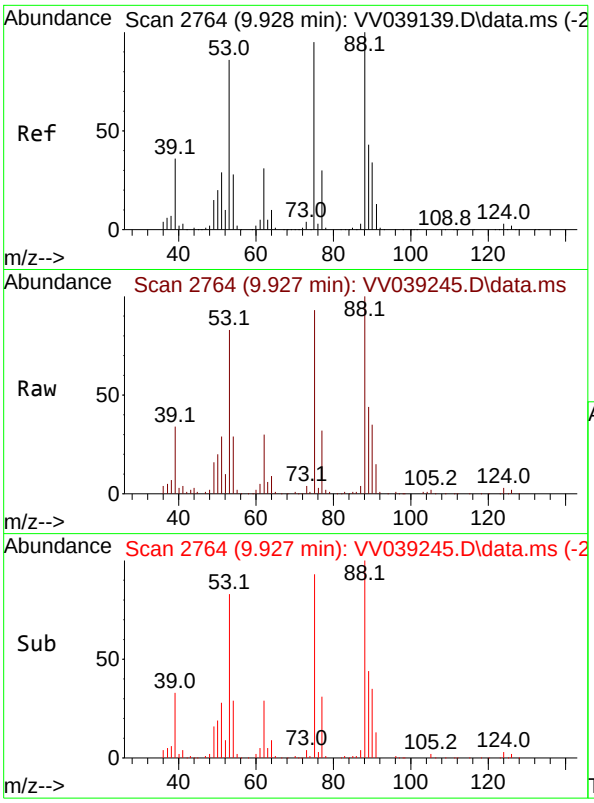


#80
1,3,5-Trimethylbenzene
Concen: 20.437 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:105 Resp: 623906

Ion	Ratio	Lower	Upper
105	100		
120	48.3	24.3	72.8



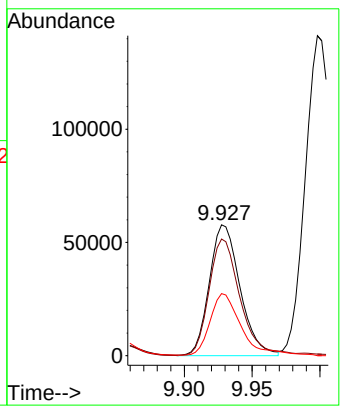


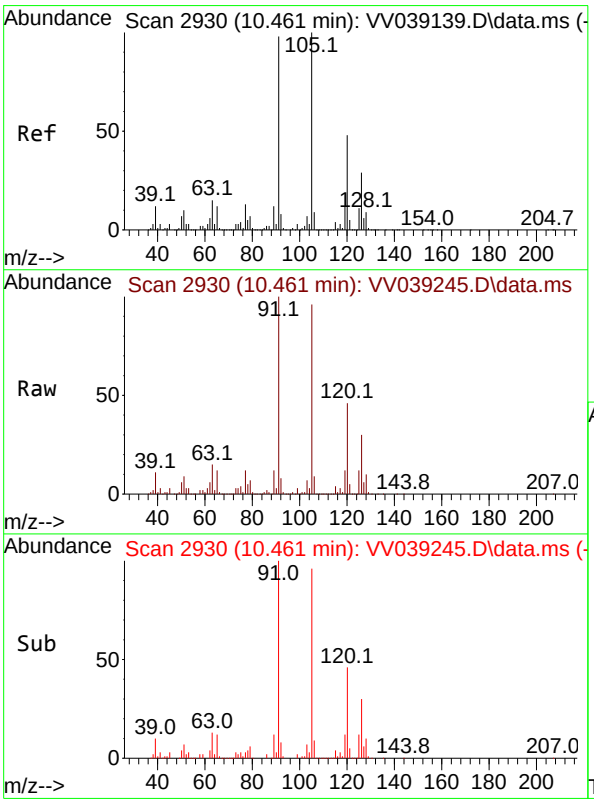
#81
trans-1,4-Dichloro-2-butene
Concen: 18.975 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 75 Resp: 91130

Ion	Ratio	Lower	Upper
75	100		
53	89.3	72.5	108.7
89	48.4	37.2	55.8

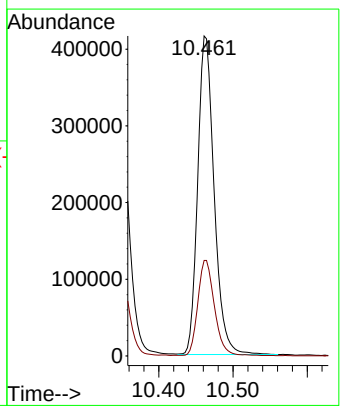


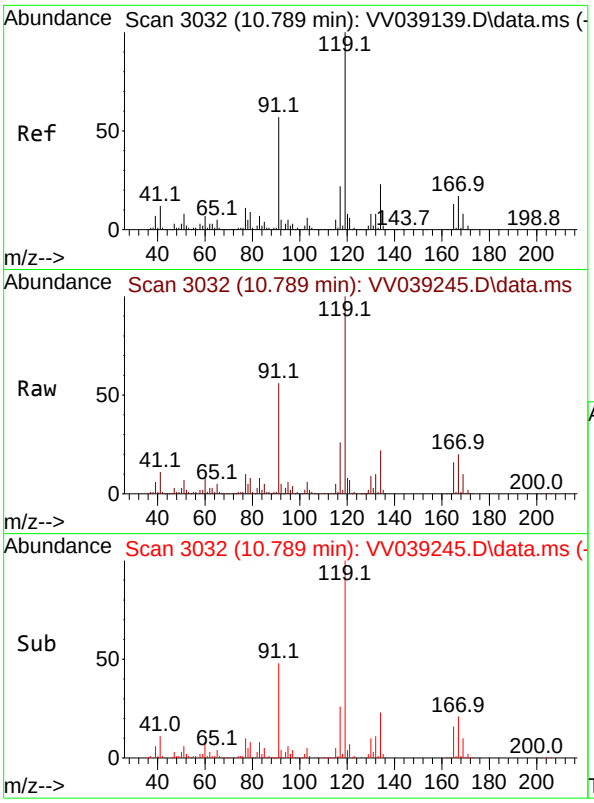


#82
4-Chlorotoluene
Concen: 20.544 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 91 Resp: 637564

Ion	Ratio	Lower	Upper
91	100		
126	30.1	14.5	43.6



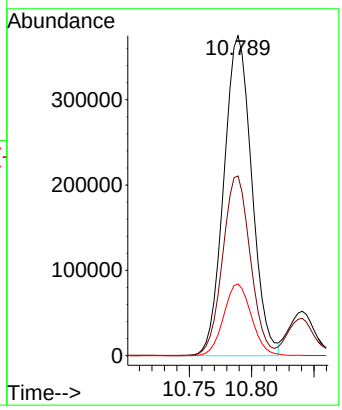


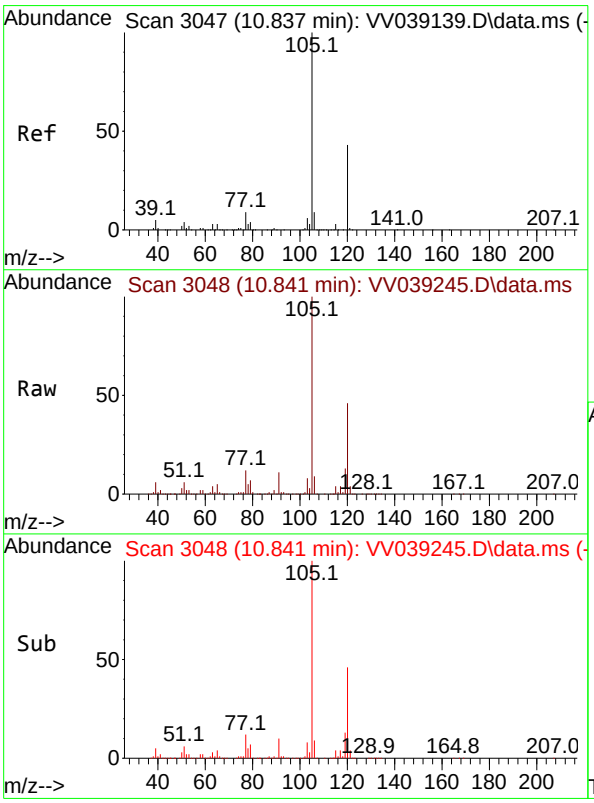
#83
tert-Butylbenzene
Concen: 19.264 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:119 Resp: 586432

Ion	Ratio	Lower	Upper
119	100		
91	55.5	28.5	85.6
134	22.3	11.5	34.4

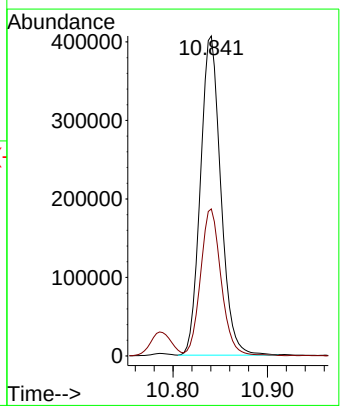


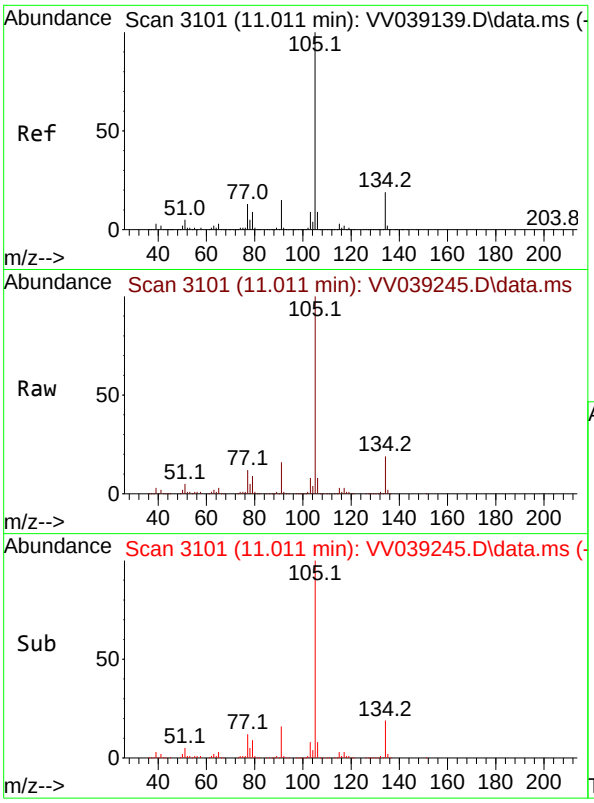


#84
1,2,4-Trimethylbenzene
Concen: 20.537 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:105 Resp: 608680

Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.4	67.2



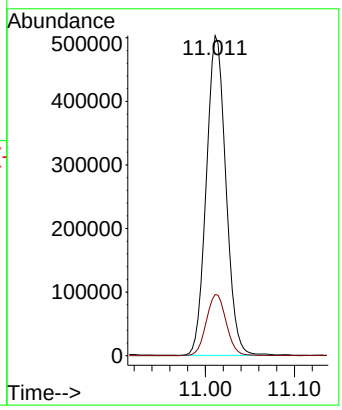


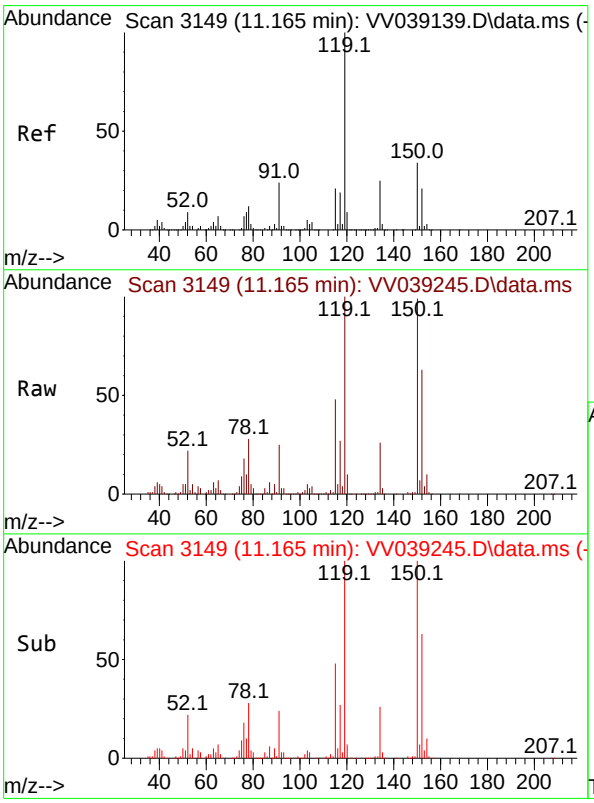
#85
sec-Butylbenzene
Concen: 18.937 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:105 Resp: 764641

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.6	28.8

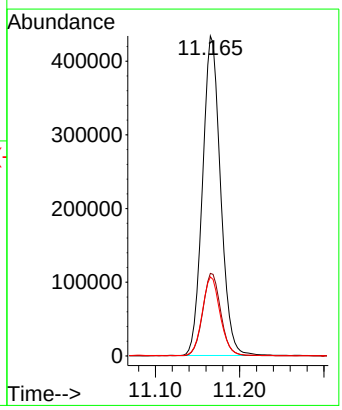


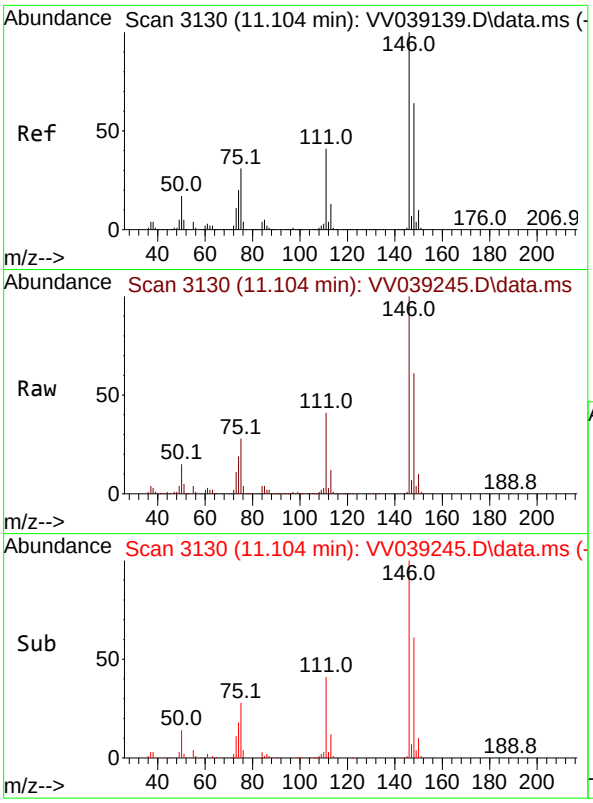


#86
p-Isopropyltoluene
Concen: 19.237 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:119 Resp: 646503

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.7	38.0
91	24.5	12.0	36.1



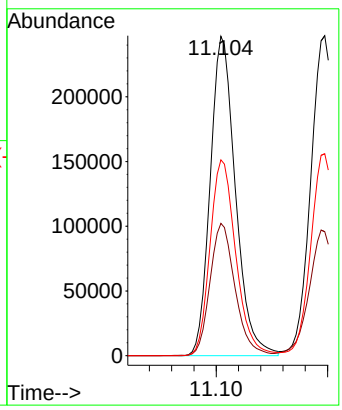


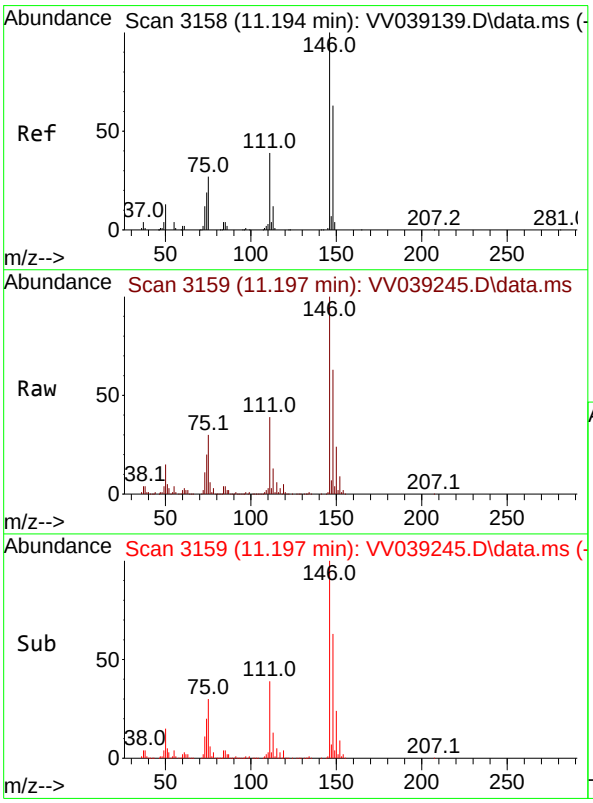
#87
1,3-Dichlorobenzene
Concen: 20.127 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:146 Resp: 388162

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.9	62.8
148	62.7	31.8	95.3

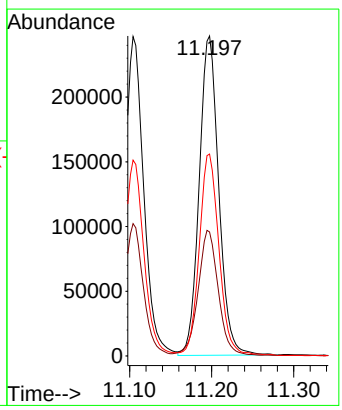


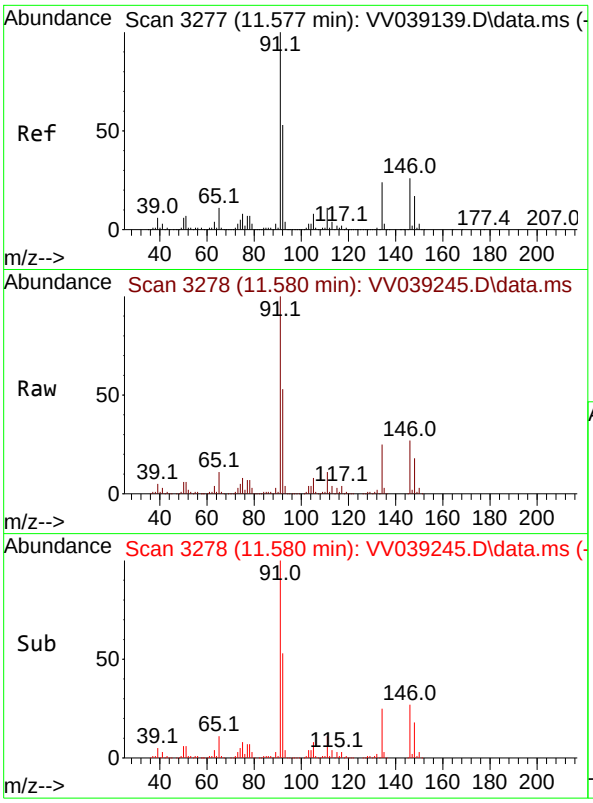


#88
1,4-Dichlorobenzene
Concen: 19.293 ug/l
RT: 11.197 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:146 Resp: 408220

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.8
148	63.0	31.4	94.2



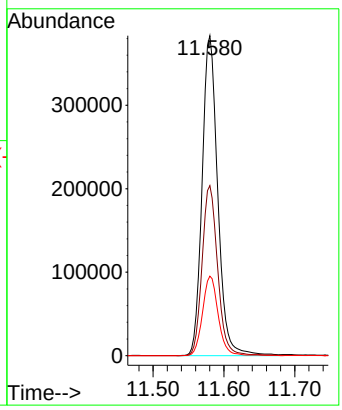


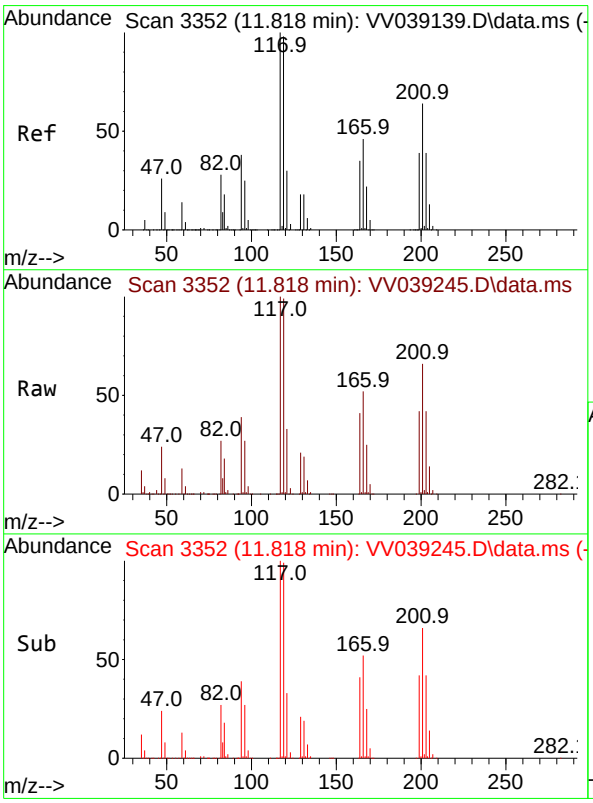
#89
n-Butylbenzene
Concen: 18.289 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion: 91 Resp: 586984

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.6	79.8
134	25.1	12.1	36.3

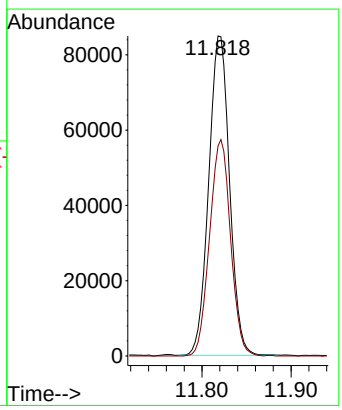


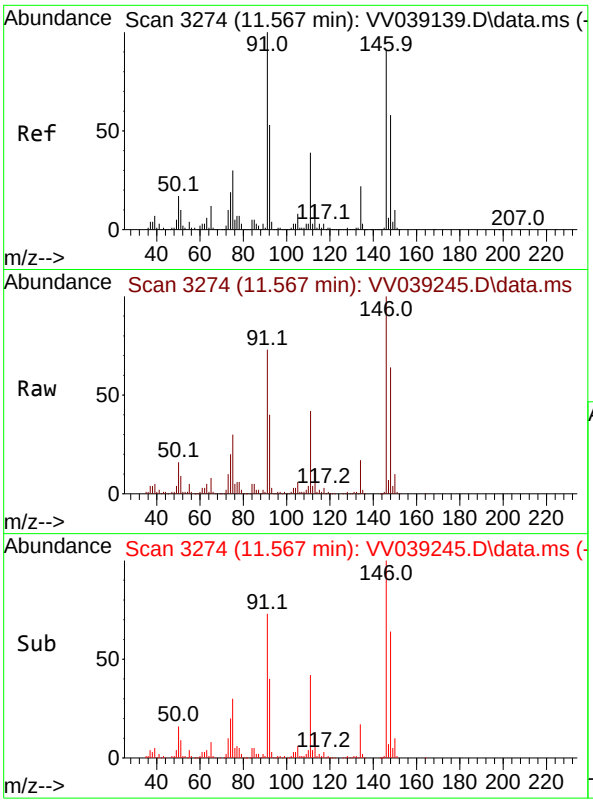


#90
Hexachloroethane
Concen: 16.621 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:117 Resp: 137547

Ion	Ratio	Lower	Upper
117	100		
201	68.3	32.3	96.8



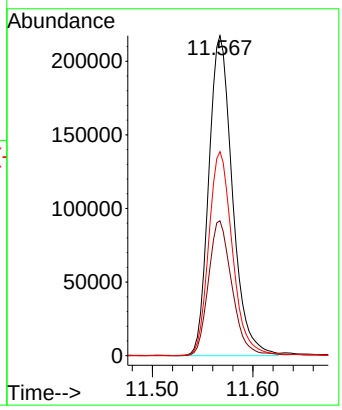


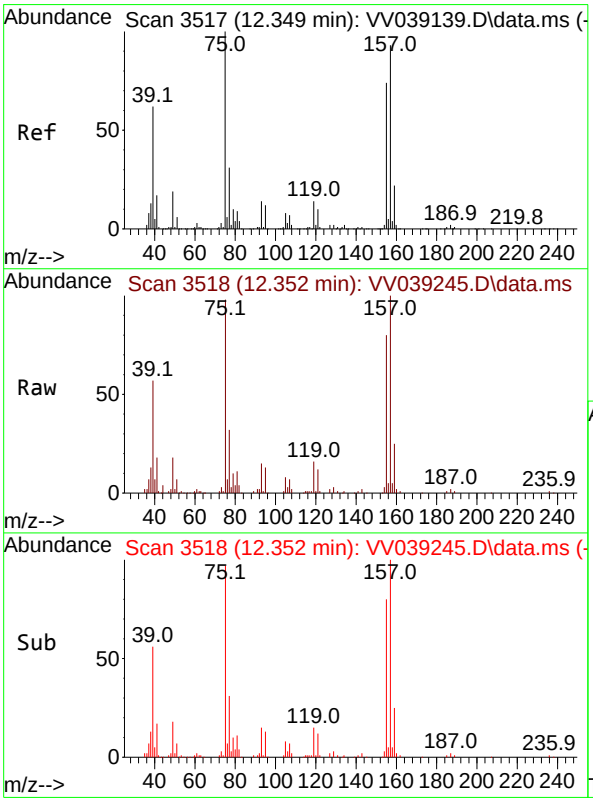
#91
1,2-Dichlorobenzene
Concen: 19.715 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:146 Resp: 355232

Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.5	64.5
148	64.2	31.9	95.7

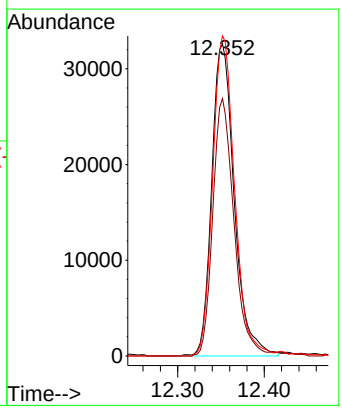


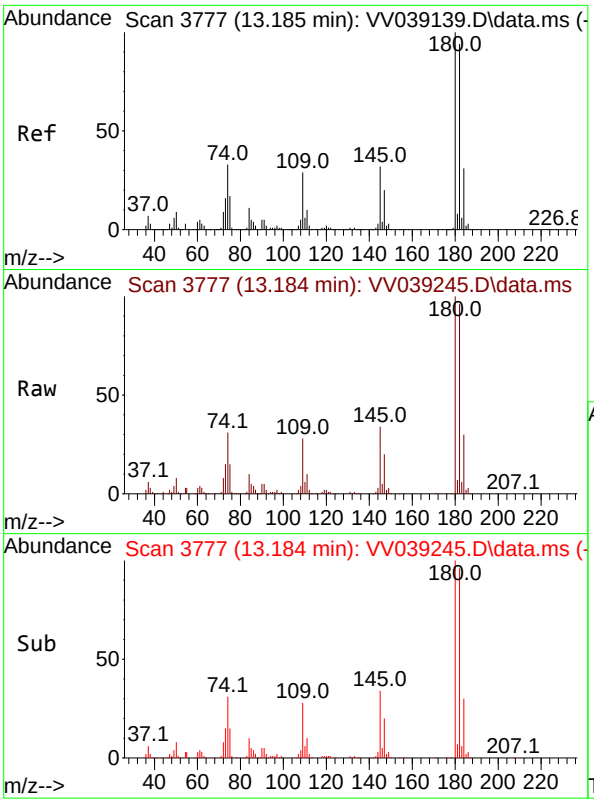


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.532 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion: 75 Resp: 58842

Ion	Ratio	Lower	Upper
75	100		
155	77.1	38.6	115.8
157	99.7	49.5	148.3



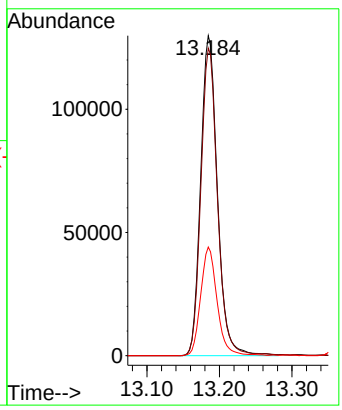


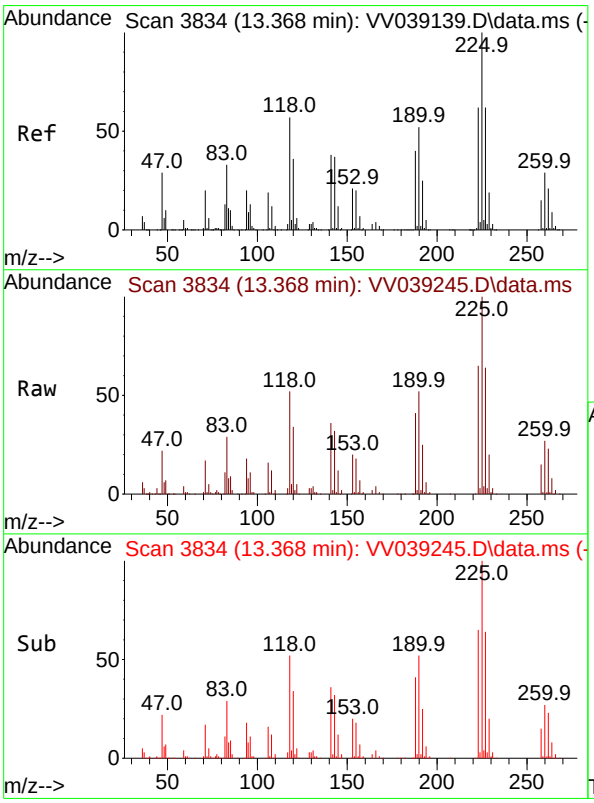
#93
1,2,4-Trichlorobenzene
Concen: 20.205 ug/l
RT: 13.184 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:180 Resp: 208698

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.1	141.4
145	33.3	16.3	48.8

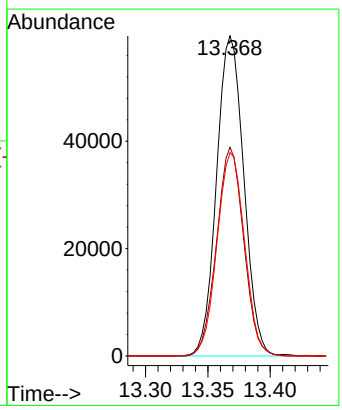


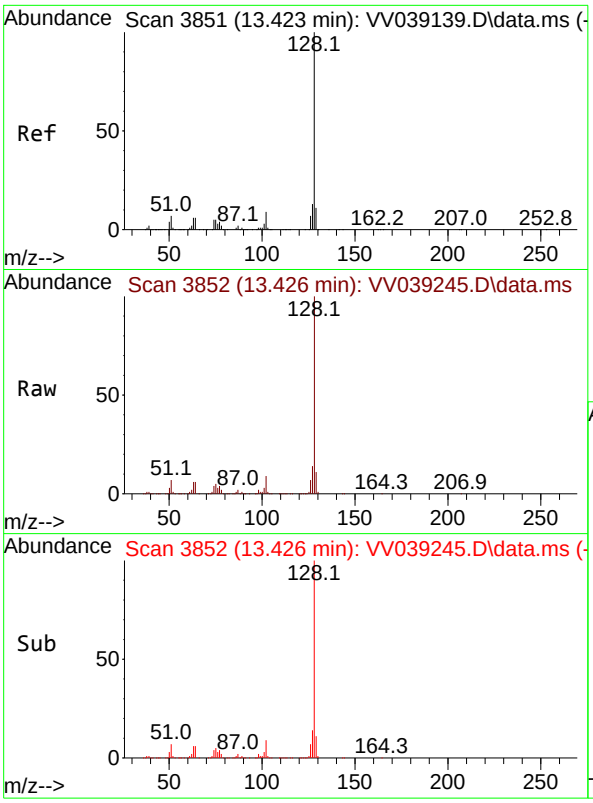


#94
Hexachlorobutadiene
Concen: 16.928 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:225 Resp: 90851

Ion	Ratio	Lower	Upper
225	100		
223	64.8	31.6	94.7
227	64.1	31.8	95.4



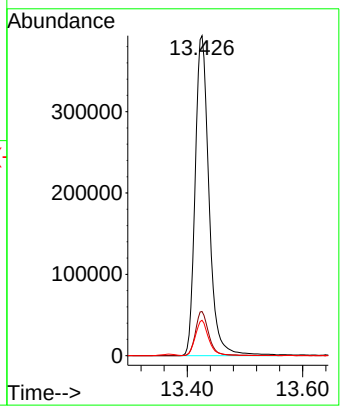


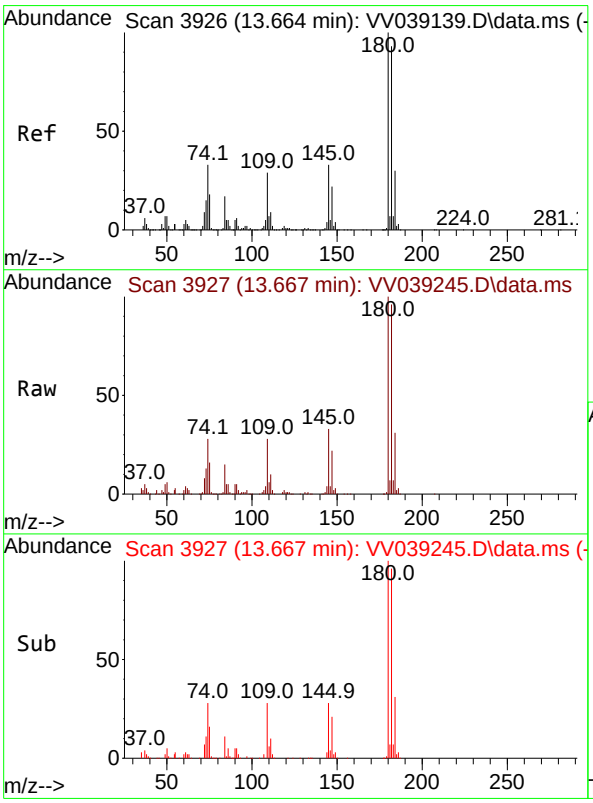
#95
Naphthalene
Concen: 19.595 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBS01

Tgt Ion:128 Resp: 654167

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.5	8.6	13.0

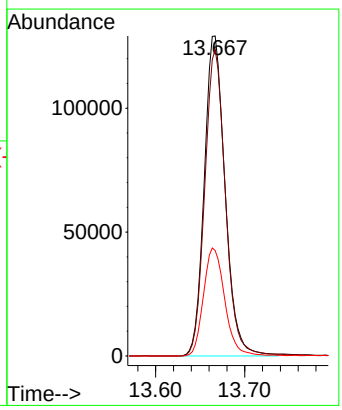




#96
1,2,3-Trichlorobenzene
Concen: 19.850 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039245.D
Acq: 03 Oct 2025 13:07

Tgt Ion:180 Resp: 209698

Ion	Ratio	Lower	Upper
180	100		
182	94.9	46.9	140.8
145	34.5	17.0	51.0



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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBSD01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039246.D	1	10/03/25 13:29	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.0		0.26	1.00	ug/L
75-00-3	Chloroethane	17.8		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.33	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.23	1.00	ug/L
107-13-1	Acrylonitrile	94.7		0.83	5.00	ug/L
67-64-1	Acetone	93.4		1.50	5.00	ug/L
75-15-0	Carbon Disulfide	15.9		0.21	1.00	ug/L
75-09-2	Methylene Chloride	20.2		0.28	1.00	ug/L
108-05-4	Vinyl Acetate	92.0		0.66	5.00	ug/L
78-93-3	2-Butanone	93.5		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.19	1.00	ug/L
74-97-5	Bromochloromethane	19.6		0.22	1.00	ug/L
67-66-3	Chloroform	18.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.4		0.20	1.00	ug/L
71-43-2	Benzene	19.3		0.15	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.20	1.00	ug/L
74-95-3	Dibromomethane	20.1		0.25	1.00	ug/L
75-27-4	Bromodichloromethane	19.4		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	5.00	ug/L
108-88-3	Toluene	20.9		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.3		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.16	1.00	ug/L
591-78-6	2-Hexanone	95.2		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	20.6		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.4		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	20.4		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.12	1.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20.7		0.19	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.13	1.00	ug/L

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

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	
Project:	Ansonia Landfill 2025	Date Received:	
Client Sample ID:	VV1003WBSD01	SDG No.:	Q3254
Lab Sample ID:	VV1003WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VV039246.D	1	10/03/25 13:29	VV100325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1330-20-7	Total Xylenes	65.1		0.36	3.00	ug/L
100-42-5	Styrene	19.6		0.15	1.00	ug/L
75-25-2	Bromoform	22.2		0.19	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.8		0.26	1.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.8		0.35	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.2		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.6		0.53	1.00	ug/L
74-88-4	Methyl Iodide	22.2		0.83	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	19.5		0.84	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	45.3		86 - 113	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	531000	4.603			
540-36-3	1,4-Difluorobenzene	835000	5.535			
3114-55-4	Chlorobenzene-d5	808000	8.776			
3855-82-1	1,4-Dichlorobenzene-d4	481000	11.172			

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_V\DATA\VV100325\
Data File : VV039246.D
Acq On : 03 Oct 2025 13:29
Operator : SY/MD
Sample : VV1003WBSD01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Quant Time: Oct 04 01:09:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	530712	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	834883	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	807929	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	481201	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	328654	42.788	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 85.580%			
35) Dibromofluoromethane	4.503	113	326044	48.578	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 97.160%			
50) Toluene-d8	7.236	98	892549	45.278	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.560%			
62) 4-Bromofluorobenzene	10.001	95	431498	53.172	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 106.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	138162	16.446	ug/l	97
3) Chloromethane	1.230	50	148206	16.433	ug/l	100
4) Vinyl Chloride	1.298	62	163797	16.965	ug/l	99
5) Bromomethane	1.497	94	115699	19.009	ug/l	98
6) Chloroethane	1.561	64	108471	17.788	ug/l	98
7) Trichlorofluoromethane	1.728	101	262214	18.758	ug/l	99
8) Diethyl Ether	1.921	74	98190	18.921	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.085	101	164380	19.763	ug/l	98
10) Methyl Iodide	2.198	142	175456	22.151	ug/l	99
11) Tert butyl alcohol	2.568	59	159087	97.996	ug/l	99
12) 1,1-Dichloroethene	2.082	96	150016	18.748	ug/l	95
13) Acrolein	2.015	56	17374	61.677	ug/l	99
14) Allyl chloride	2.362	41	257886	18.042	ug/l	95
15) Acrylonitrile	2.674	53	492695	94.675	ug/l	99
16) Acetone	2.121	43	474589	93.370	ug/l	97
17) Carbon Disulfide	2.253	76	388682	15.883	ug/l	98
18) Methyl Acetate	2.381	43	244952	21.524	ug/l	95
19) Methyl tert-butyl Ether	2.712	73	521032	20.434	ug/l	96
20) Methylene Chloride	2.458	84	180046	20.156	ug/l	93
21) trans-1,2-Dichloroethene	2.703	96	160169	18.803	ug/l	95
22) Diisopropyl ether	3.217	45	513200	18.766	ug/l	85
23) Vinyl Acetate	3.191	43	2200657	91.989	ug/l	97
24) 1,1-Dichloroethane	3.117	63	307499	18.387	ug/l	98
25) 2-Butanone	3.870	43	575336	93.540	ug/l	97
26) 2,2-Dichloropropane	3.815	77	259507	17.501	ug/l	100
27) cis-1,2-Dichloroethene	3.825	96	184518	19.640	ug/l	95
28) Bromochloromethane	4.146	49	144451	19.566	ug/l	90
29) Tetrahydrofuran	4.240	42	355912	92.448	ug/l	96
30) Chloroform	4.281	83	318542	18.241	ug/l	98
31) Cyclohexane	4.584	56	222742	16.259	ug/l	97
32) 1,1,1-Trichloroethane	4.516	97	277703	18.368	ug/l	97
36) 1,1-Dichloropropene	4.748	75	188879	18.613	ug/l	99
37) Ethyl Acetate	3.982	43	219152	17.798	ug/l	98
38) Carbon Tetrachloride	4.738	117	233151	18.800	ug/l	99
39) Methylcyclohexane	6.047	83	208027	16.976	ug/l	96
40) Benzene	5.011	78	637793	19.301	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039246.D
Acq On : 03 Oct 2025 13:29
Operator : SY/MD
Sample : VV1003WBSD01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Quant Time: Oct 04 01:09:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.166	41	93622	18.084	ug/l	95
42) 1,2-Dichloroethane	5.043	62	221588	19.138	ug/l	97
43) Isopropyl Acetate	5.198	43	327228	19.491	ug/l	98
44) Trichloroethene	5.834	130	154476	20.259	ug/l	99
45) 1,2-Dichloropropane	6.092	63	156695	19.078	ug/l	98
46) Dibromomethane	6.227	93	126461	20.117	ug/l	95
47) Bromodichloromethane	6.429	83	252593	19.436	ug/l	98
48) Methyl methacrylate	6.301	41	144785	19.024	ug/l	95
49) 1,4-Dioxane	6.294	88	44086	358.959	ug/l	95
51) 4-Methyl-2-Pentanone	7.149	43	1164431	105.425	ug/l	99
52) Toluene	7.310	92	400377	20.898	ug/l	98
53) t-1,3-Dichloropropene	7.577	75	241108	21.288	ug/l	99
54) cis-1,3-Dichloropropene	6.950	75	263751	21.095	ug/l	97
55) 1,1,2-Trichloroethane	7.760	97	175184	20.392	ug/l	98
56) Ethyl methacrylate	7.719	69	215210	21.095	ug/l	96
57) 1,3-Dichloropropane	7.937	76	274772	20.267	ug/l	99
58) 2-Chloroethyl Vinyl ether	6.815	63	474541	88.830	ug/l	97
59) 2-Hexanone	8.066	43	835694	95.188	ug/l	99
60) Dibromochloromethane	8.169	129	202074	20.644	ug/l	100
61) 1,2-Dibromoethane	8.275	107	188087	21.409	ug/l	98
64) Tetrachloroethene	7.899	164	138188	20.420	ug/l	96
65) Chlorobenzene	8.805	112	454849	20.212	ug/l	98
66) 1,1,1,2-Tetrachloroethane	8.899	131	168298	20.697	ug/l	98
67) Ethyl Benzene	8.937	91	689222	20.232	ug/l	98
68) m/p-Xylenes	9.063	106	568873	43.267	ug/l	99
69) o-Xylene	9.468	106	254107	21.827	ug/l	96
70) Styrene	9.487	104	461186	19.600	ug/l	99
71) Bromoform	9.654	173	140950	22.191	ug/l	98
73) Isopropylbenzene	9.857	105	699688	20.047	ug/l	100
74) N-amyl acetate	9.725	43	275038	19.756	ug/l	95
75) 1,1,2,2-Tetrachloroethane	10.165	83	287626	18.809	ug/l	99
76) 1,2,3-Trichloropropane	10.198	75	205482	18.755	ug/l	98
77) Bromobenzene	10.140	156	187797	20.739	ug/l	96
78) n-propylbenzene	10.278	91	831093	19.554	ug/l	98
79) 2-Chlorotoluene	10.349	91	523752	20.594	ug/l	100
80) 1,3,5-Trimethylbenzene	10.464	105	591210	20.380	ug/l	99
81) trans-1,4-Dichloro-2-b...	9.927	75	89087	19.521	ug/l	99
82) 4-Chlorotoluene	10.464	91	608970	20.650	ug/l	99
83) tert-Butylbenzene	10.789	119	550870	19.043	ug/l	99
84) 1,2,4-Trimethylbenzene	10.841	105	581871	20.660	ug/l	98
85) sec-Butylbenzene	11.011	105	722734	18.837	ug/l	100
86) p-Isopropyltoluene	11.165	119	610180	19.107	ug/l	99
87) 1,3-Dichlorobenzene	11.104	146	372185	20.309	ug/l	99
88) 1,4-Dichlorobenzene	11.198	146	391588	19.476	ug/l	99
89) n-Butylbenzene	11.580	91	559457	18.344	ug/l	99
90) Hexachloroethane	11.818	117	132512	16.851	ug/l	96
91) 1,2-Dichlorobenzene	11.567	146	345188	20.161	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.352	75	56191	20.636	ug/l	91
93) 1,2,4-Trichlorobenzene	13.185	180	198726	20.248	ug/l	100
94) Hexachlorobutadiene	13.368	225	84439	16.557	ug/l	98
95) Naphthalene	13.426	128	632578	19.941	ug/l	100
96) 1,2,3-Trichlorobenzene	13.664	180	203723	20.295	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039246.D
Acq On : 03 Oct 2025 13:29
Operator : SY/MD
Sample : VV1003WBSD01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Quant Time: Oct 04 01:09:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

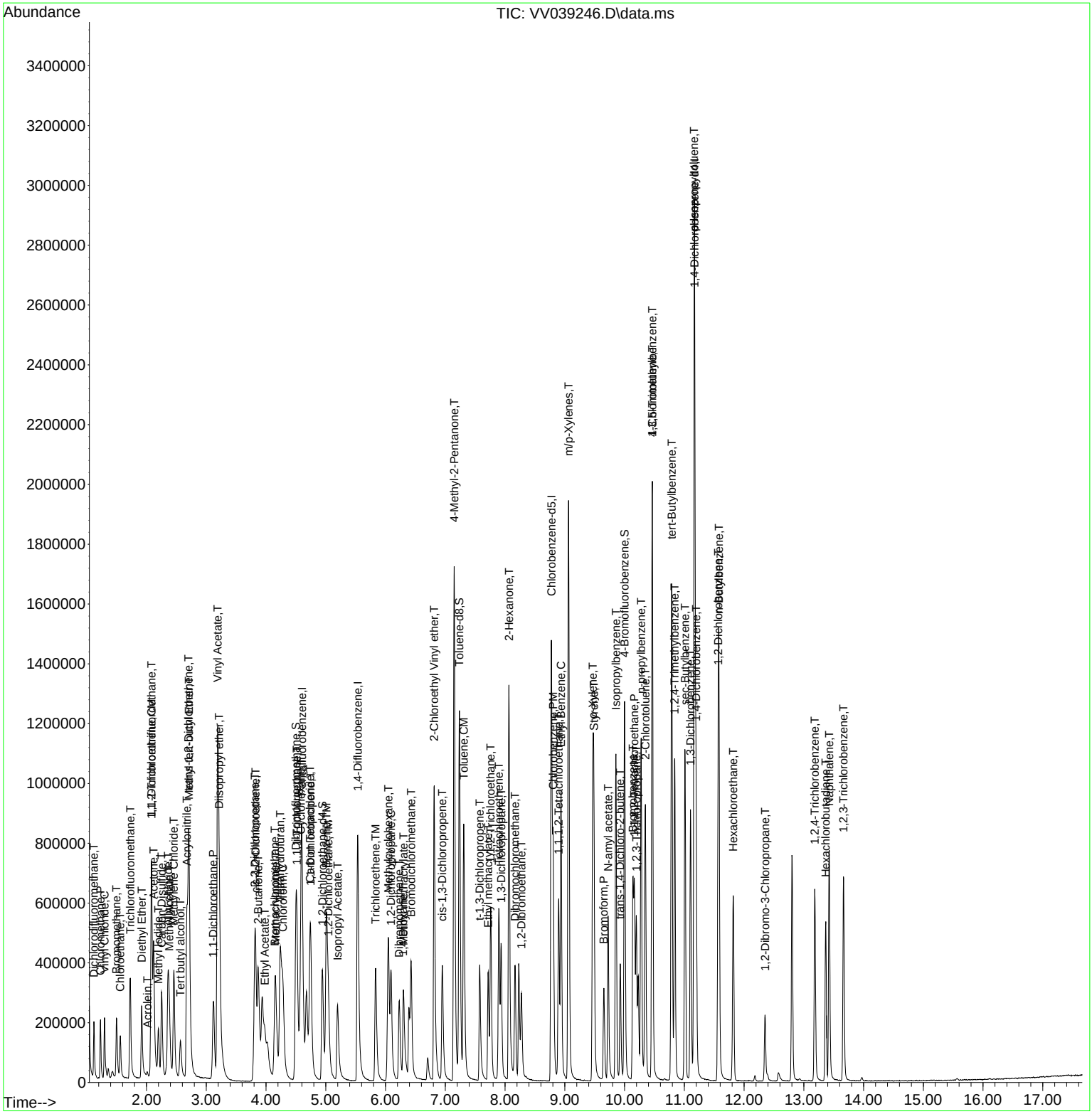
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

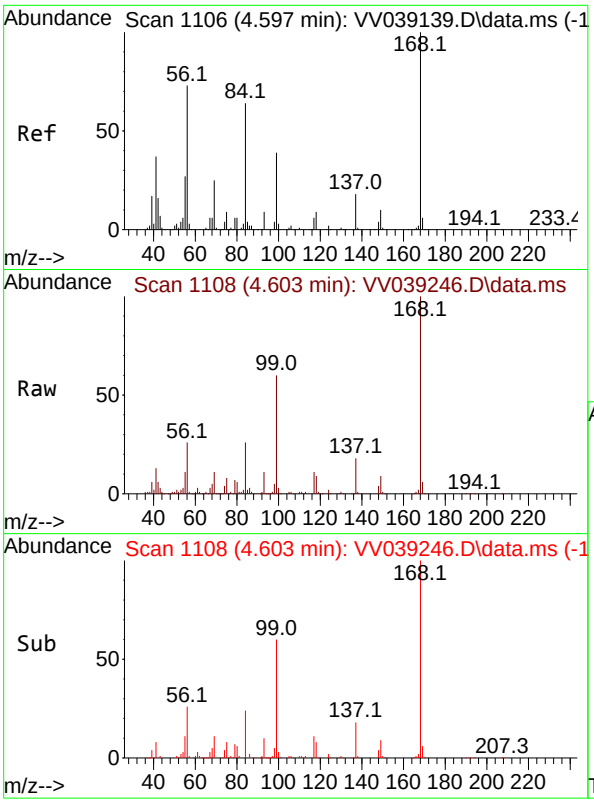
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
Data File : VV039246.D
Acq On : 03 Oct 2025 13:29
Operator : SY/MD
Sample : VV1003WBSD01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Quant Time: Oct 04 01:09:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



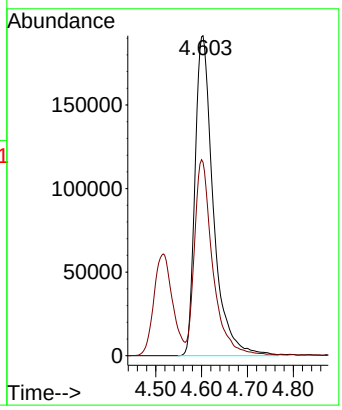


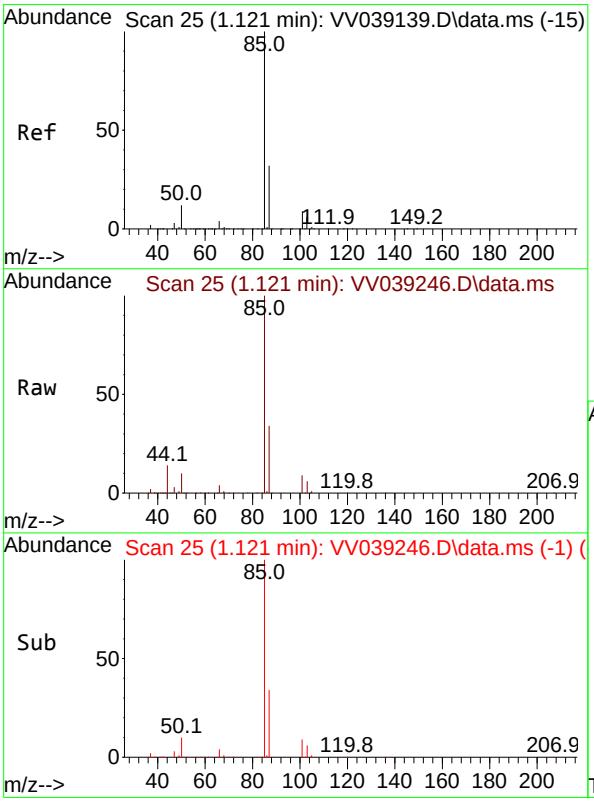
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:168 Resp: 530712

Ion	Ratio	Lower	Upper
168	100		
99	60.1	49.6	74.4

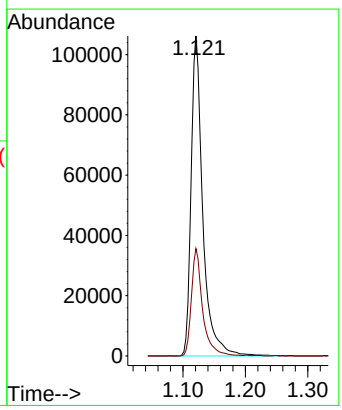


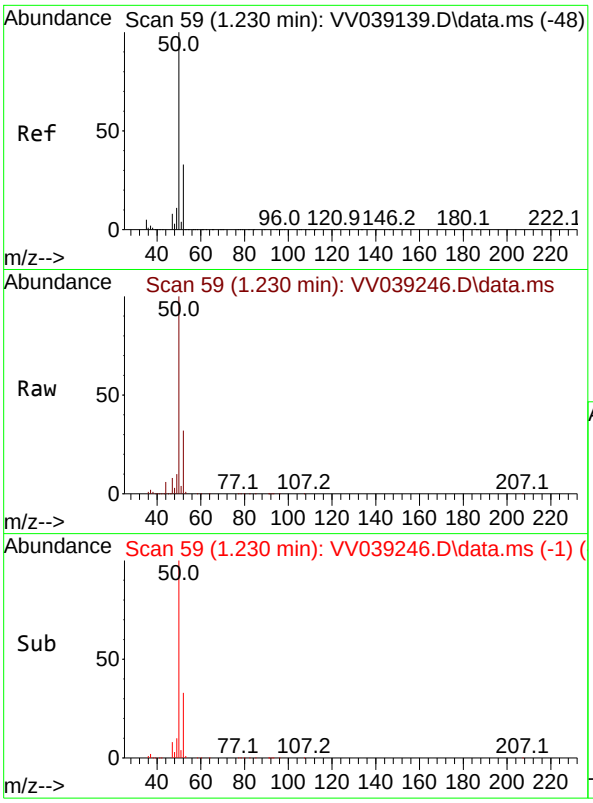


#2
Dichlorodifluoromethane
Concen: 16.446 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 85 Resp: 138162

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.0	47.9



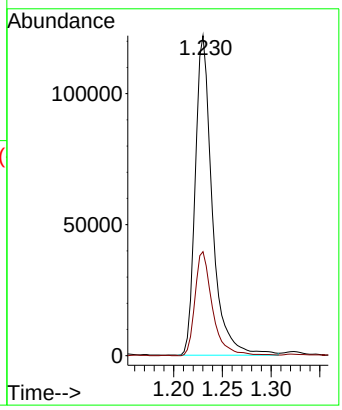


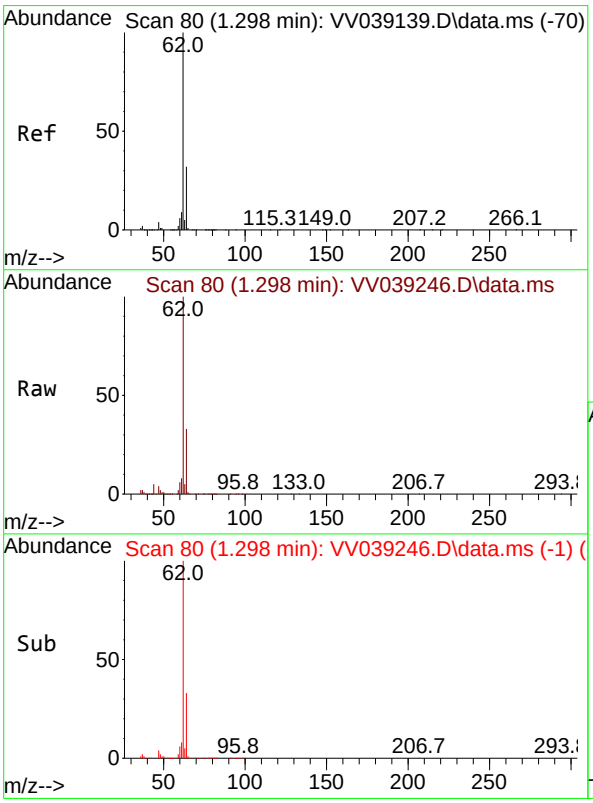
#3
Chloromethane
Concen: 16.433 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 50 Resp: 148206

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.0	39.0

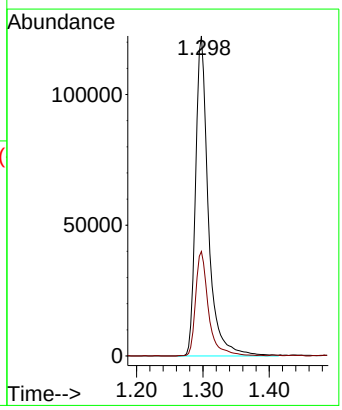


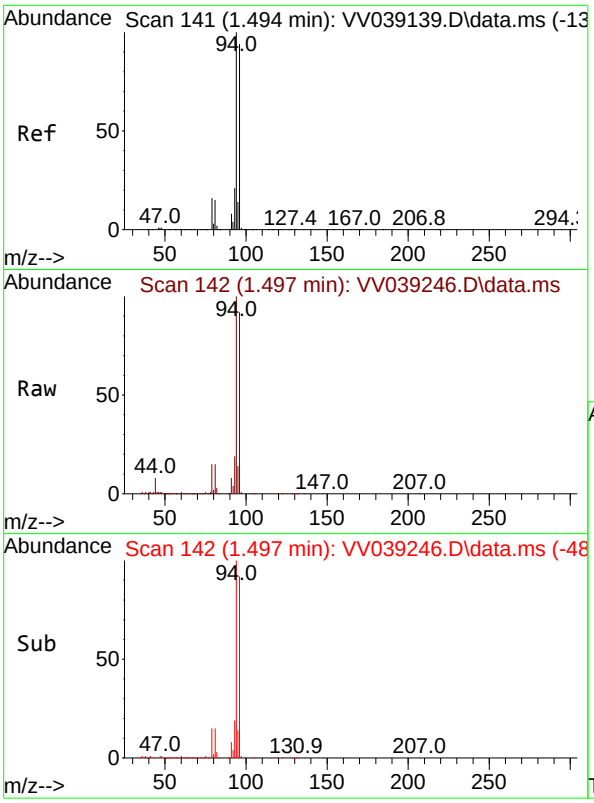


#4
Vinyl Chloride
Concen: 16.965 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 62 Resp: 163797

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.6	38.4



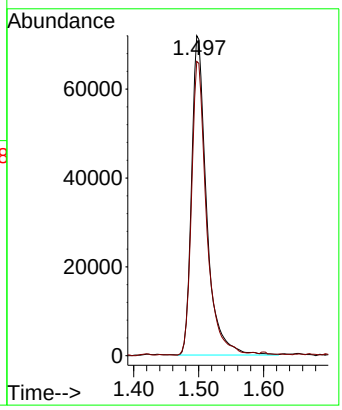


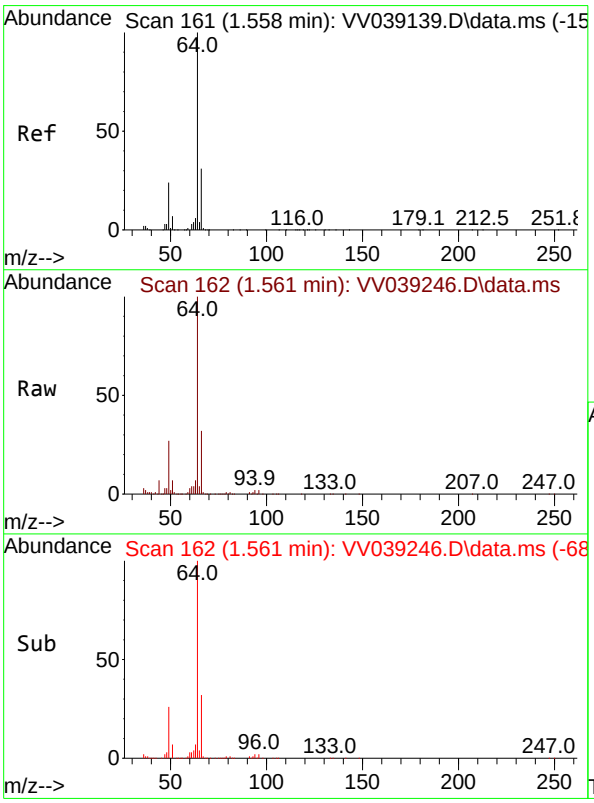
#5
Bromomethane
Concen: 19.009 ug/l
RT: 1.497 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 94 Resp: 115699

Ion	Ratio	Lower	Upper
94	100		
96	91.9	74.9	112.3

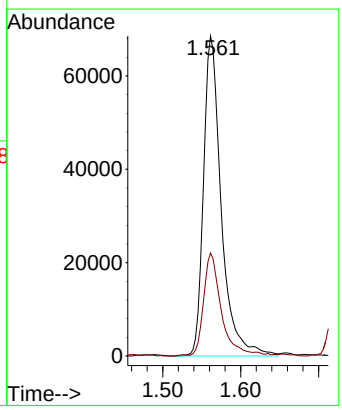


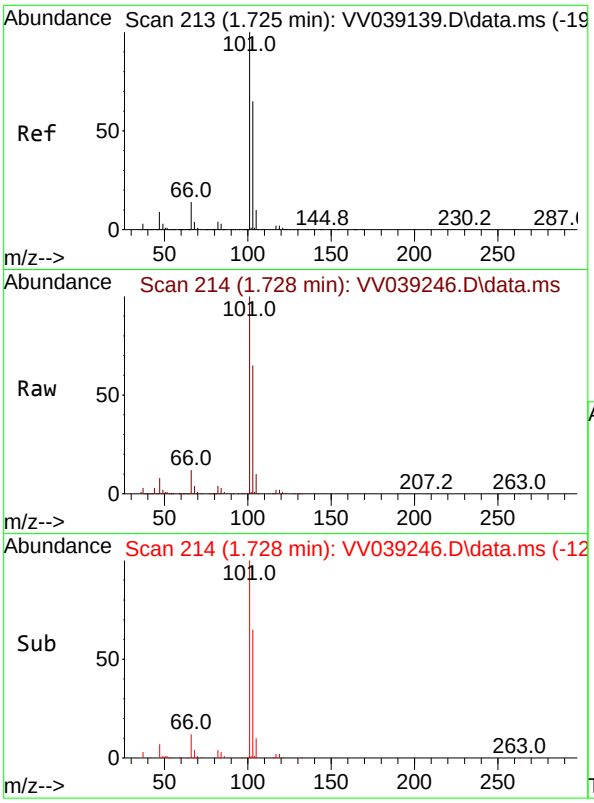


#6
Chloroethane
Concen: 17.788 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 64 Resp: 108471

Ion	Ratio	Lower	Upper
64	100		
66	32.0	24.6	36.8



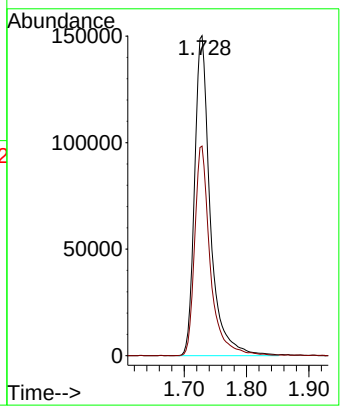


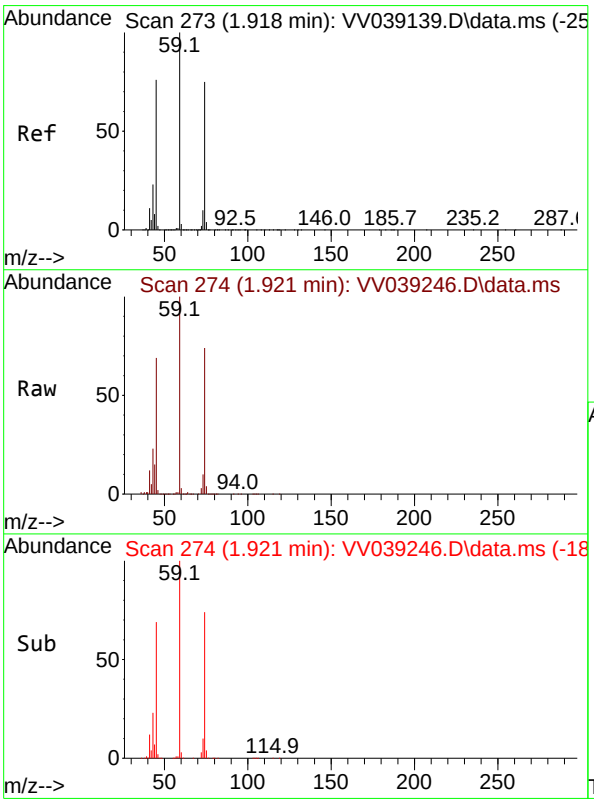
#7
Trichlorofluoromethane
Concen: 18.758 ug/l
RT: 1.728 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:101 Resp: 262214

Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.0	78.0

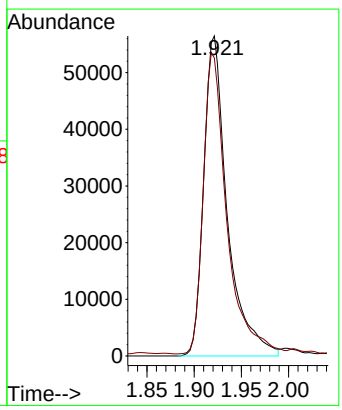


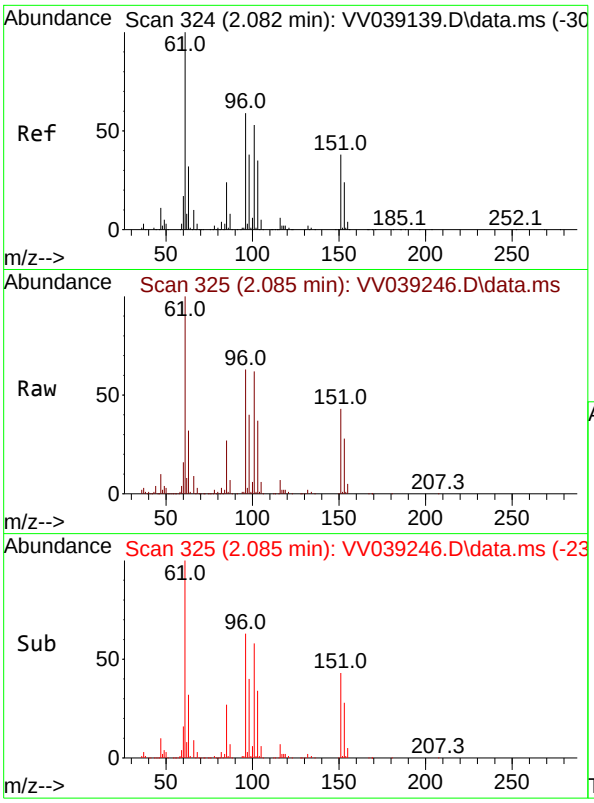


#8
Diethyl Ether
Concen: 18.921 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 74 Resp: 98190

Ion	Ratio	Lower	Upper
74	100		
45	93.5	49.6	148.8



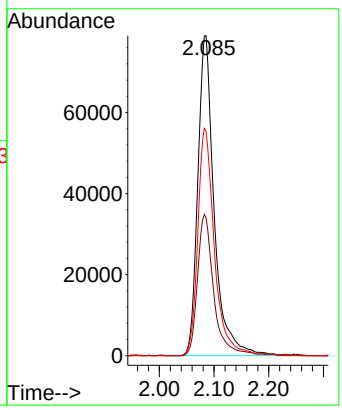


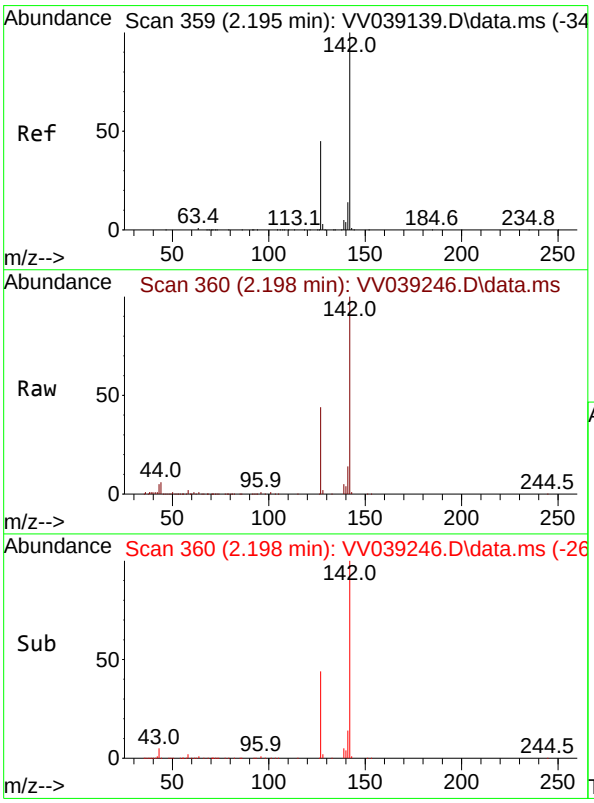
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.763 ug/l
RT: 2.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:101 Resp: 164380

Ion	Ratio	Lower	Upper
101	100		
85	43.5	36.2	54.2
151	72.0	56.3	84.5

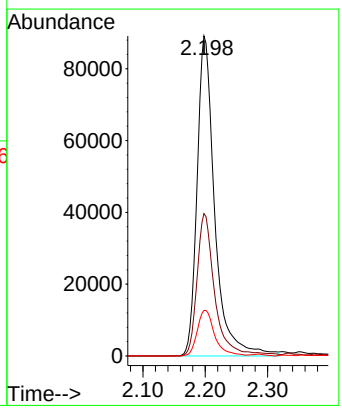


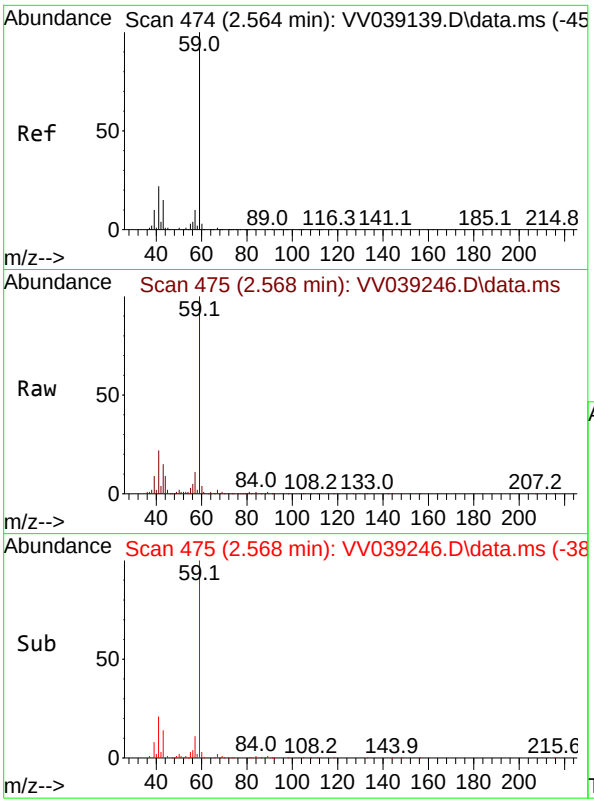


#10
Methyl Iodide
Concen: 22.151 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:142 Resp: 175456

Ion	Ratio	Lower	Upper
142	100		
127	44.8	36.3	54.5
141	14.1	11.2	16.8



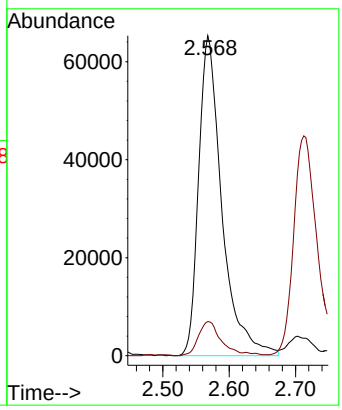


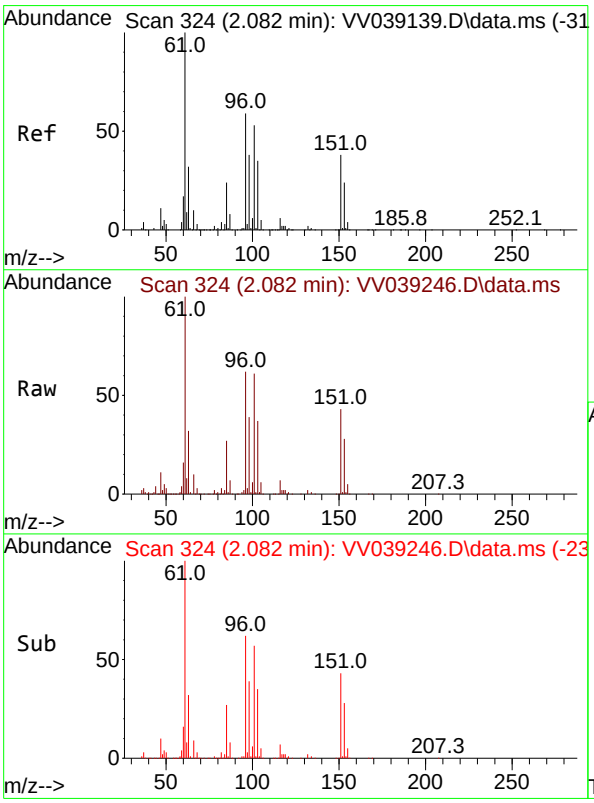
#11
Tert butyl alcohol
Concen: 97.996 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 59 Resp: 159087

Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.8	11.8

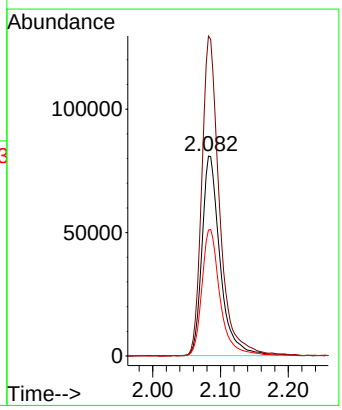


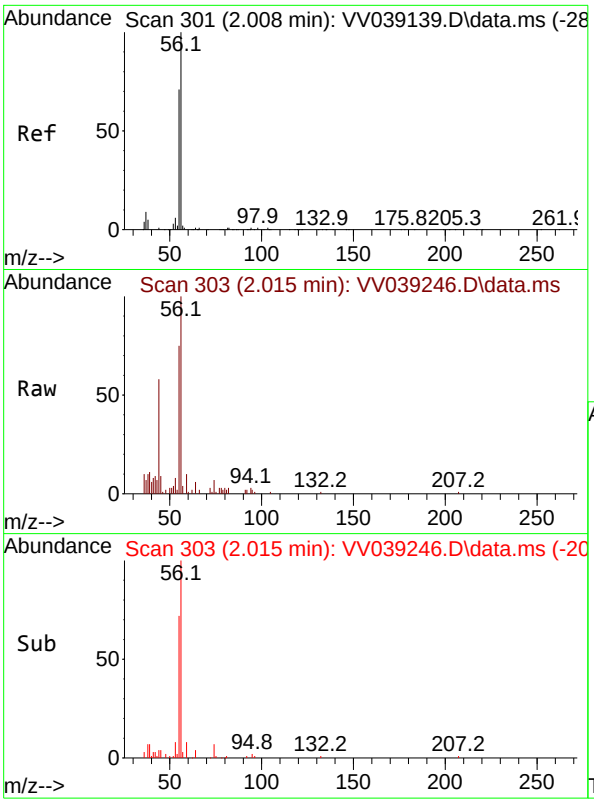


#12
1,1-Dichloroethene
Concen: 18.748 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 96 Resp: 150016

Ion	Ratio	Lower	Upper
96	100		
61	160.3	136.0	204.0
98	63.2	51.0	76.6



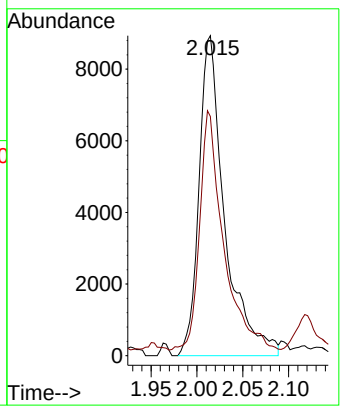


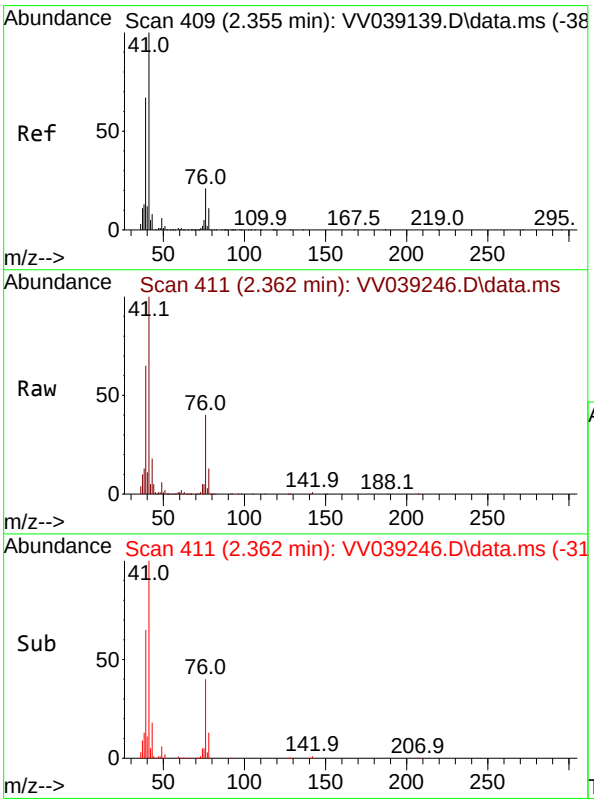
#13
Acrolein
Concen: 61.677 ug/l
RT: 2.015 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 56 Resp: 17374

Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.2	84.4

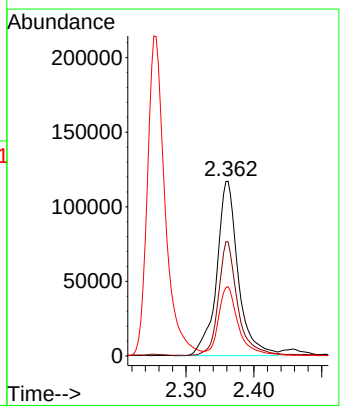


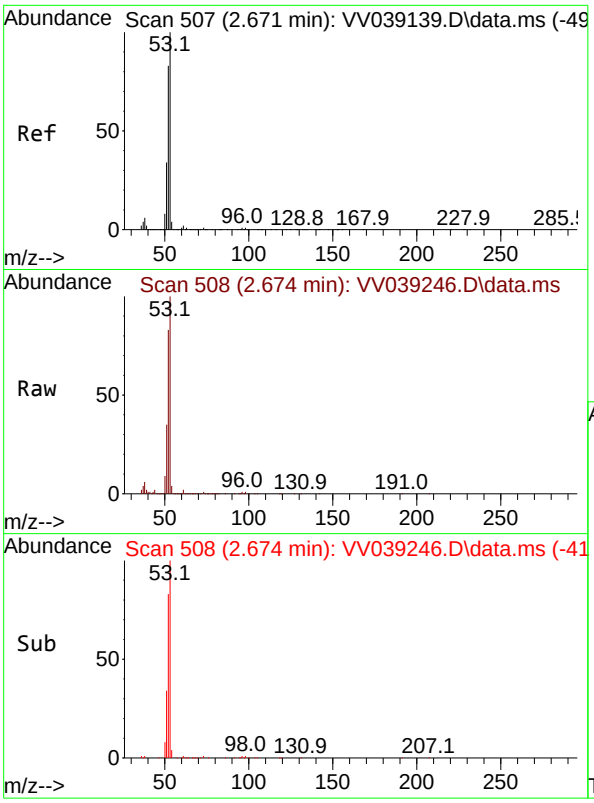


#14
Allyl chloride
Concen: 18.042 ug/l
RT: 2.362 min Scan# 411
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 41 Resp: 257886

Ion	Ratio	Lower	Upper
41	100		
39	58.0	51.0	76.6
76	36.1	28.2	42.4



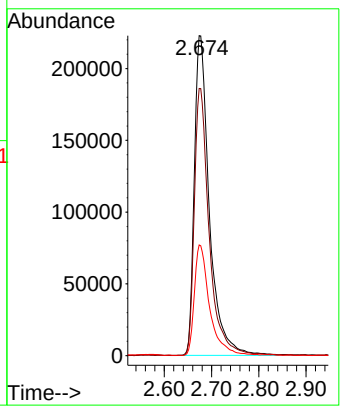


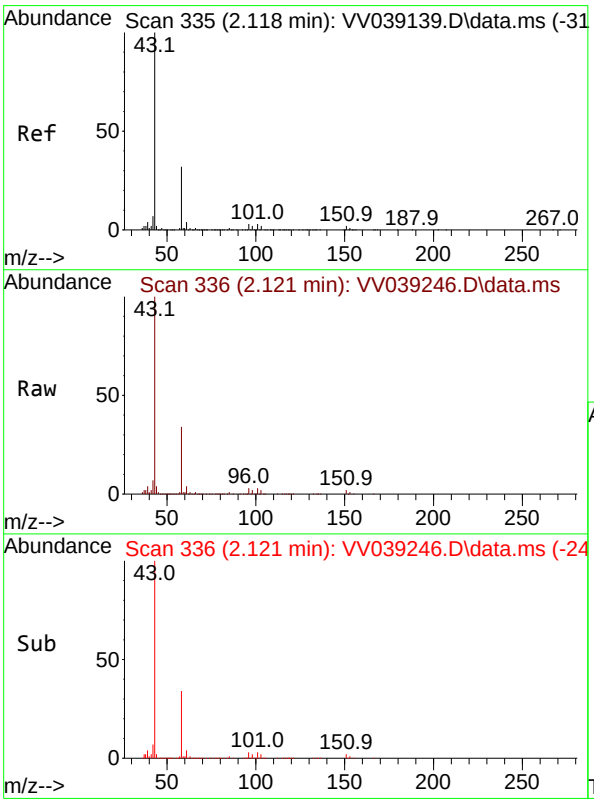
#15
Acrylonitrile
Concen: 94.675 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 53 Resp: 492695

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.1	99.1
51	34.8	28.5	42.7

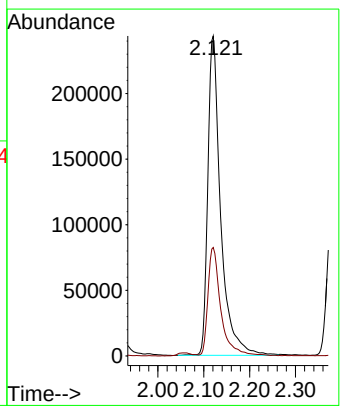


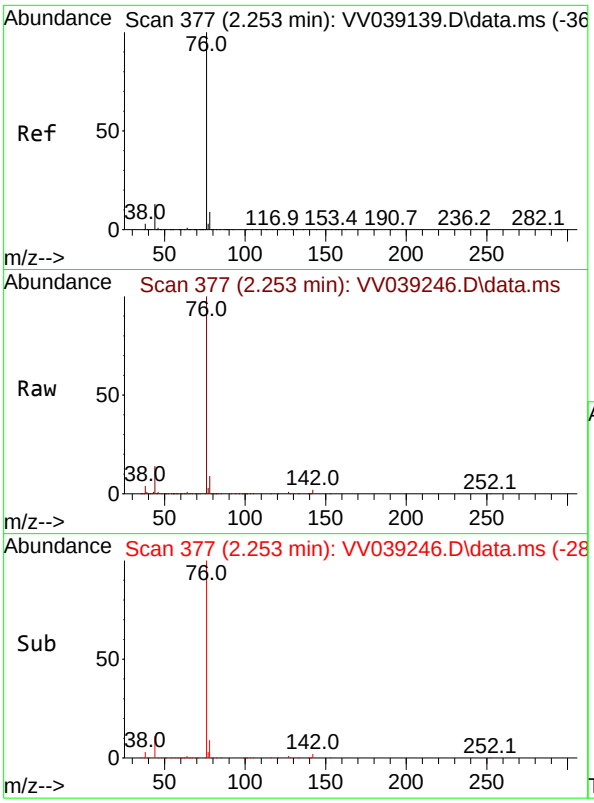


#16
Acetone
Concen: 93.370 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 43 Resp: 474589

Ion	Ratio	Lower	Upper
43	100		
58	33.8	25.8	38.6



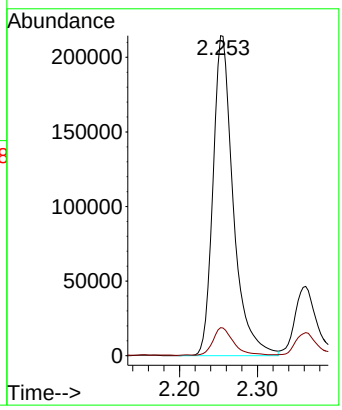


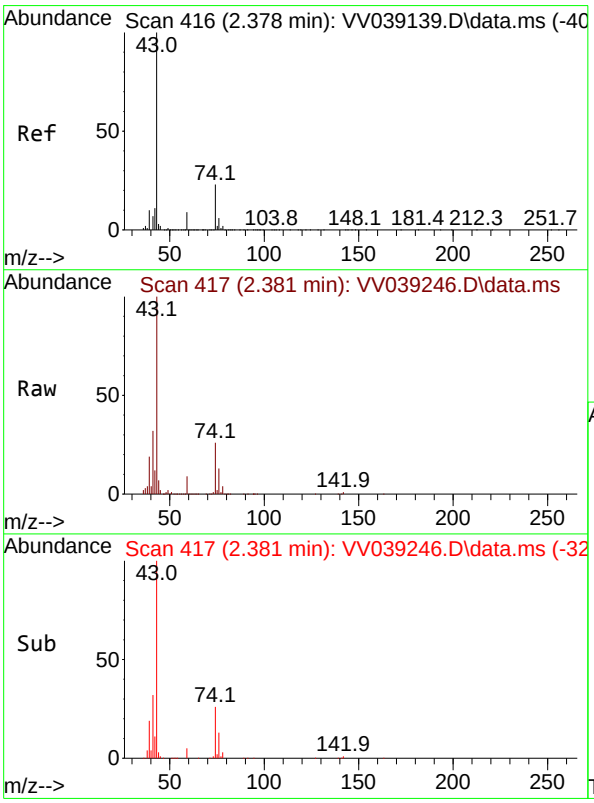
#17
Carbon Disulfide
Concen: 15.883 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 76 Resp: 388682

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.0

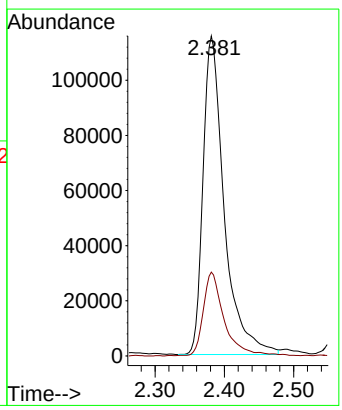


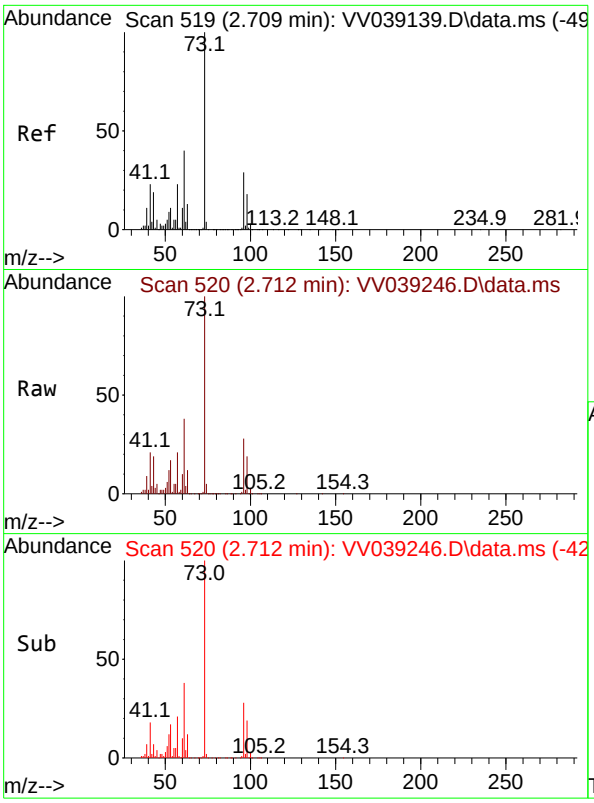


#18
Methyl Acetate
Concen: 21.524 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 43 Resp: 244952

Ion	Ratio	Lower	Upper
43	100		
74	25.5	18.6	27.8



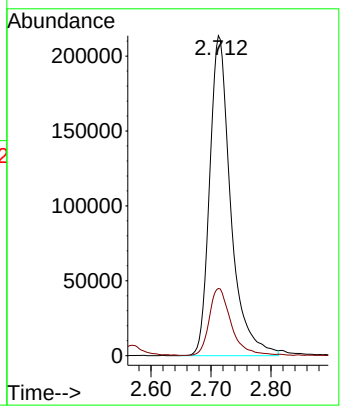


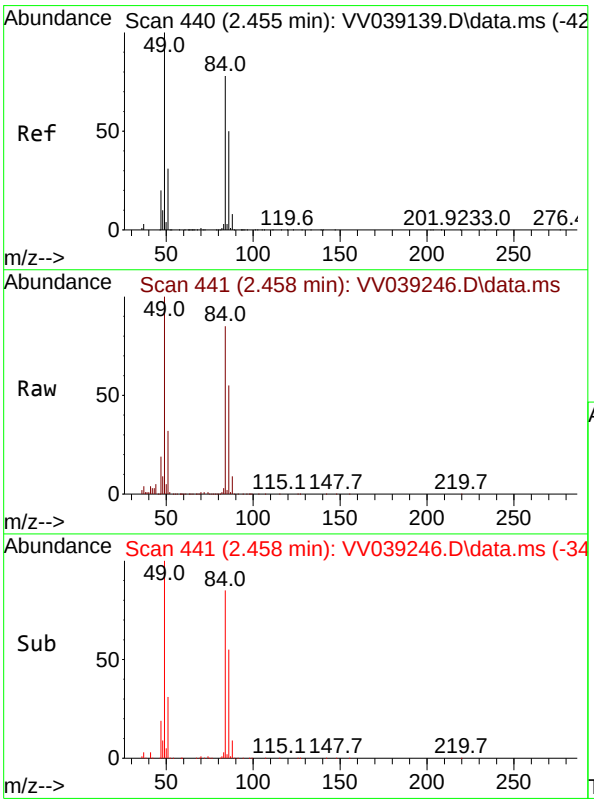
#19
Methyl tert-butyl Ether
Concen: 20.434 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 73 Resp: 521032

Ion	Ratio	Lower	Upper
73	100		
57	20.9	18.2	27.4

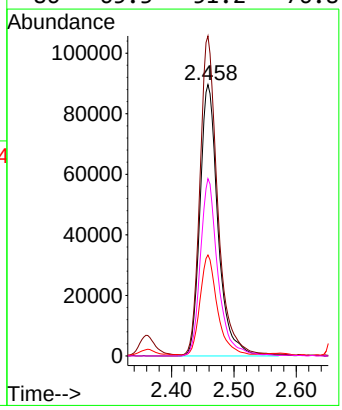


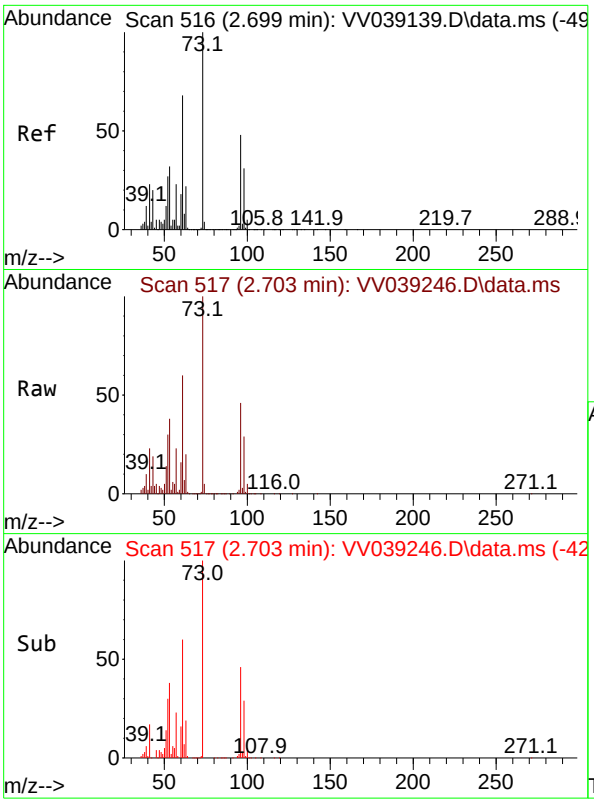


#20
Methylene Chloride
Concen: 20.156 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 84 Resp: 180046

Ion	Ratio	Lower	Upper
84	100		
49	117.5	102.8	154.2
51	36.7	31.9	47.9
86	65.3	51.2	76.8



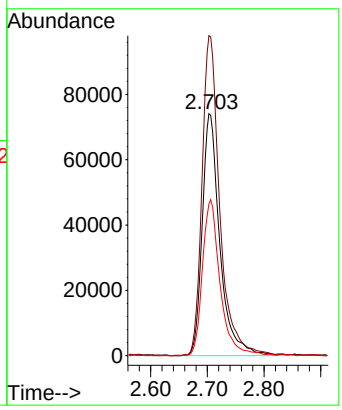


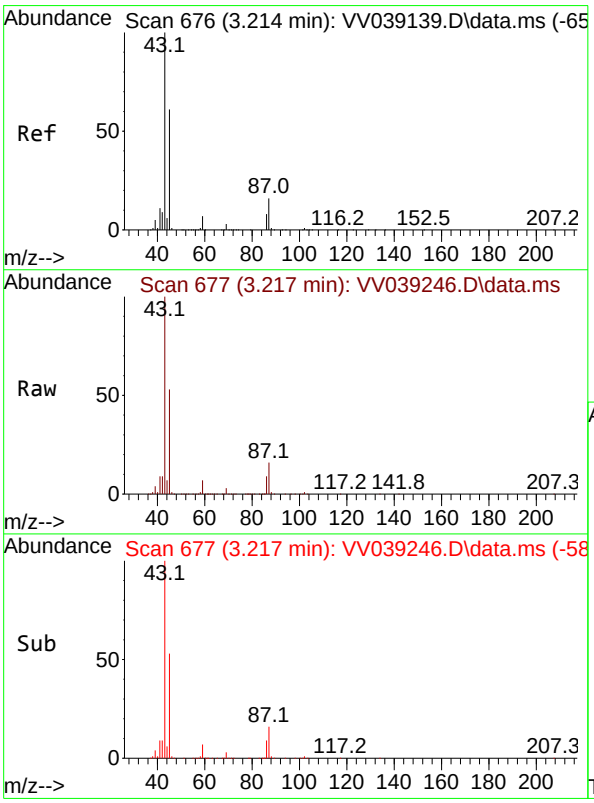
#21
trans-1,2-Dichloroethene
Concen: 18.803 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 96 Resp: 160169

Ion	Ratio	Lower	Upper
96	100		
61	132.3	112.8	169.2
98	62.5	51.1	76.7

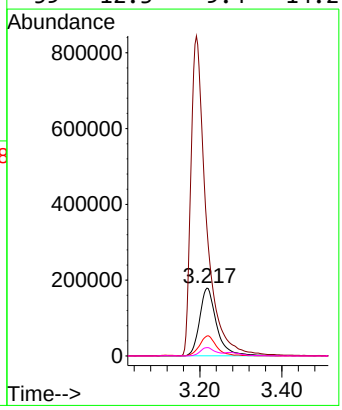


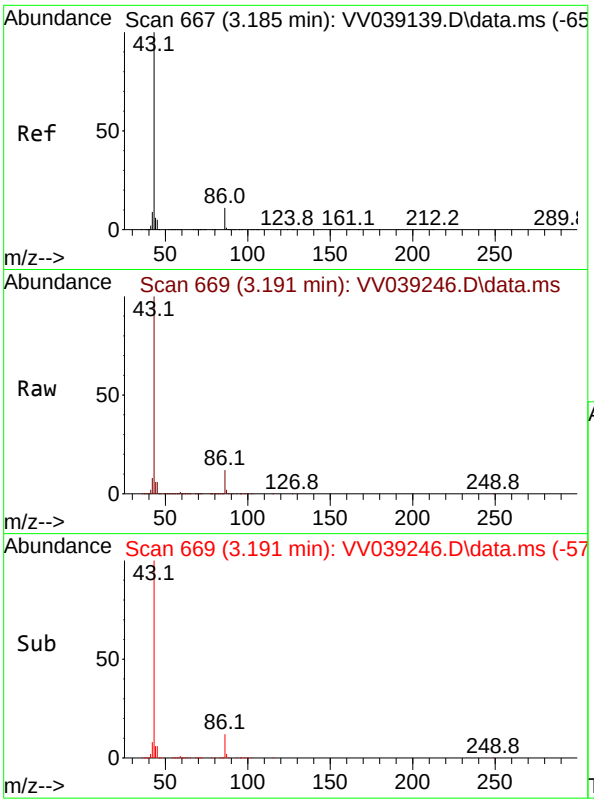


#22
Diisopropyl ether
Concen: 18.766 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 45 Resp: 513200

Ion	Ratio	Lower	Upper
45	100		
43	187.2	130.9	196.3
87	29.3	21.1	31.7
59	12.3	9.4	14.2



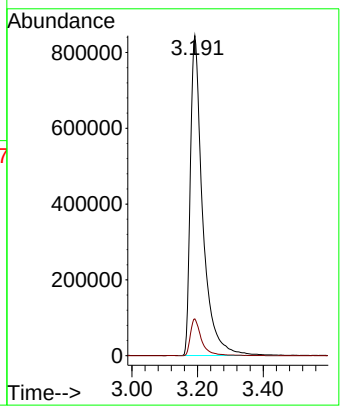


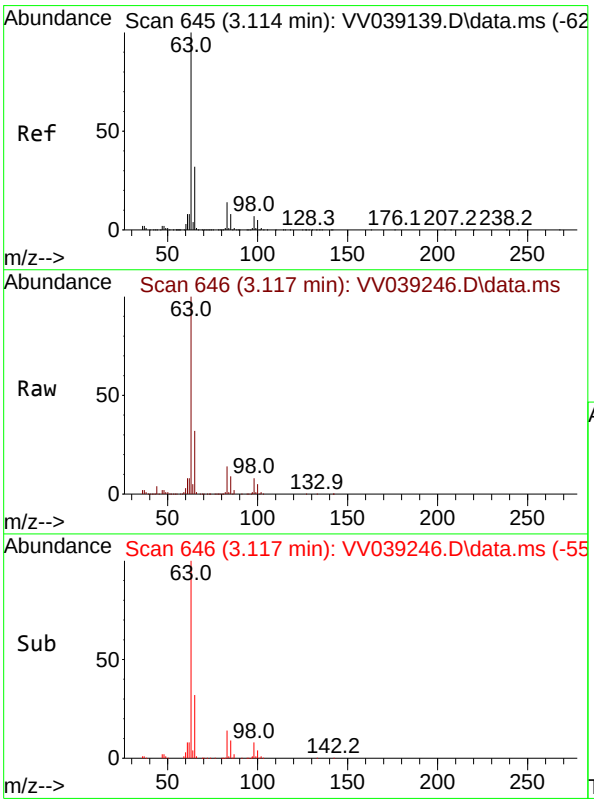
#23
Vinyl Acetate
Concen: 91.989 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 43 Resp: 2200657

Ion	Ratio	Lower	Upper
43	100		
86	11.5	8.4	12.6

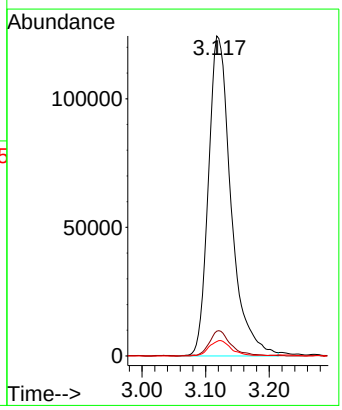


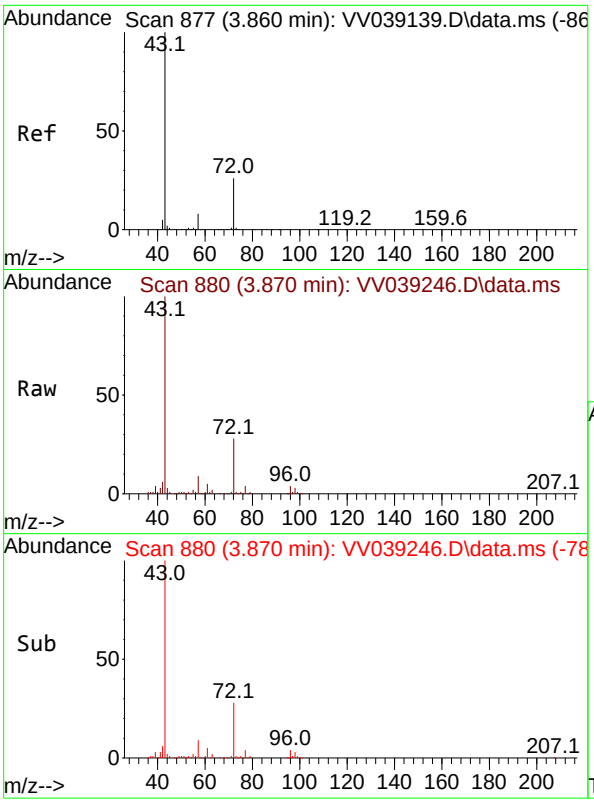


#24
1,1-Dichloroethane
Concen: 18.387 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 63 Resp: 307499

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.4	10.2
100	4.5	2.2	6.6



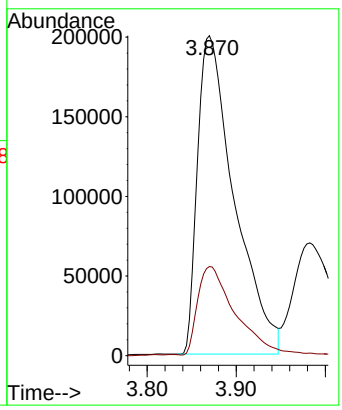


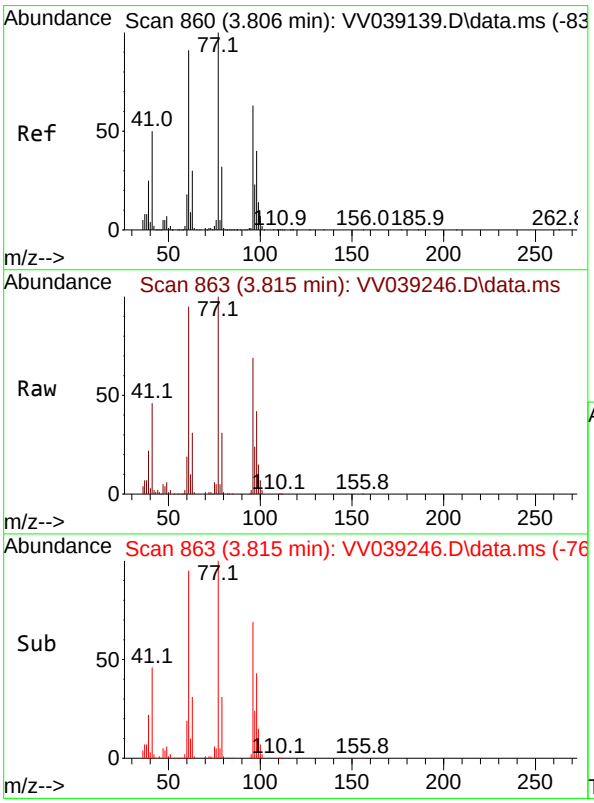
#25
2-Butanone
Concen: 93.540 ug/l
RT: 3.870 min Scan# 8
Delta R.T. 0.010 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 43 Resp: 575336

Ion	Ratio	Lower	Upper
43	100		
72	27.7	21.0	31.6

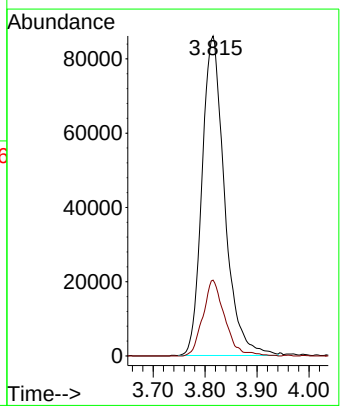


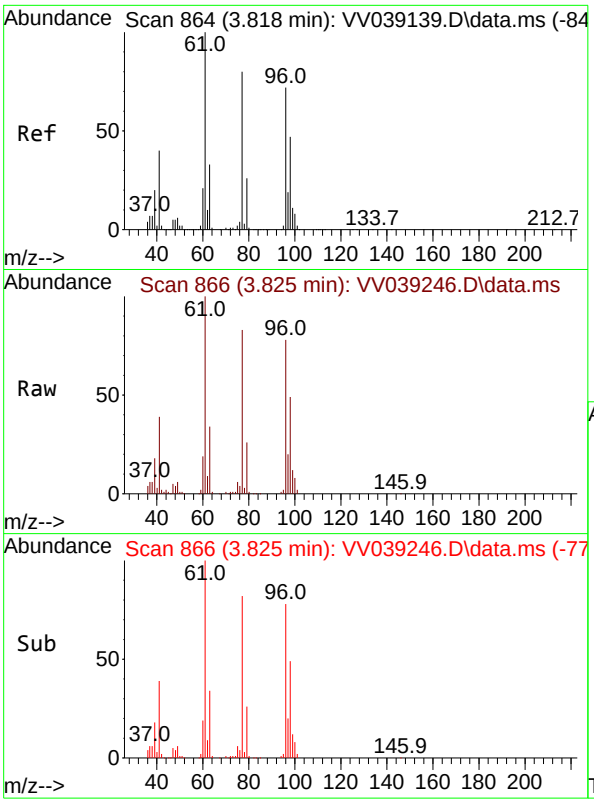


#26
2,2-Dichloropropane
Concen: 17.501 ug/l
RT: 3.815 min Scan# 863
Delta R.T. 0.010 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 77 Resp: 259507

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



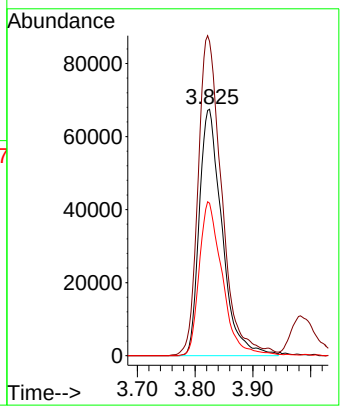


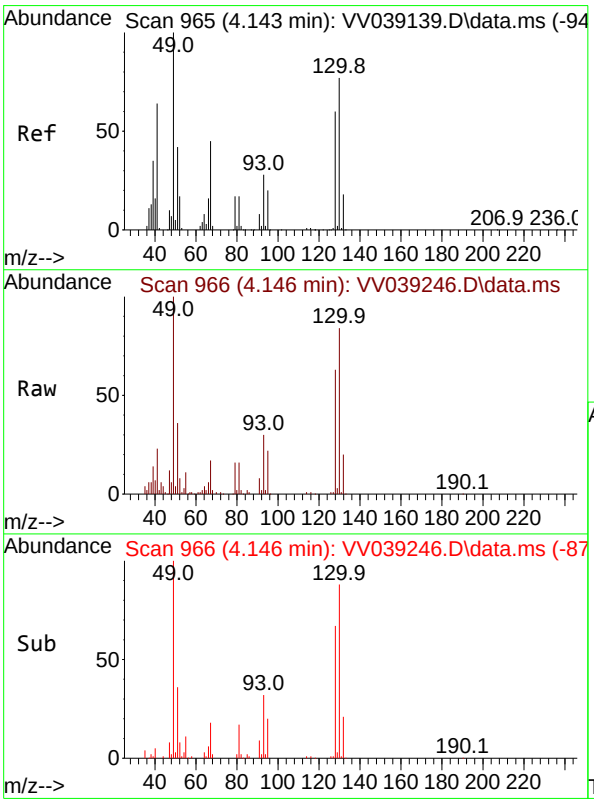
#27
cis-1,2-Dichloroethene
Concen: 19.640 ug/l
RT: 3.825 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 96 Resp: 184518

Ion	Ratio	Lower	Upper
96	100		
61	134.3	0.0	286.4
98	63.2	0.0	126.6

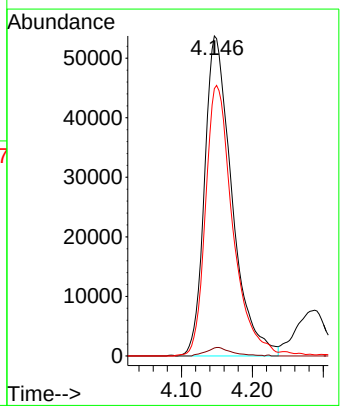


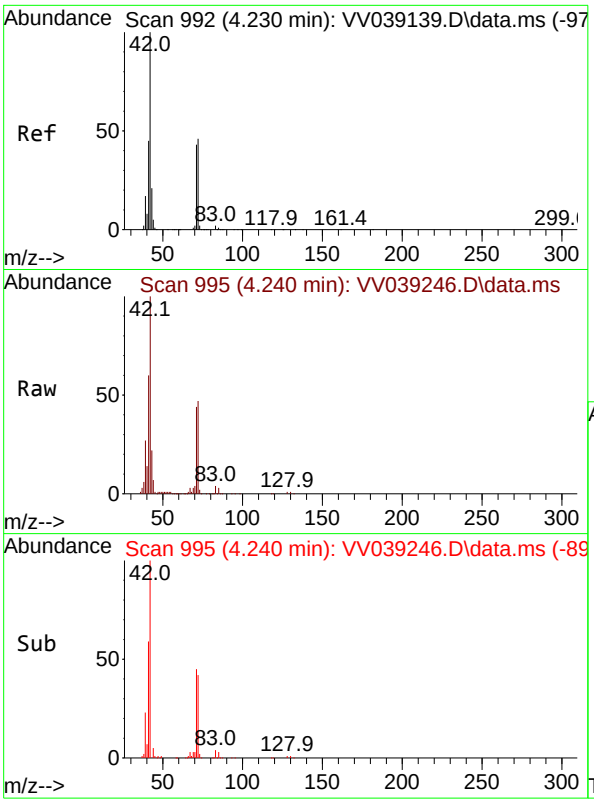


#28
Bromochloromethane
Concen: 19.566 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 49 Resp: 144451

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.2
130	83.8	60.2	90.2



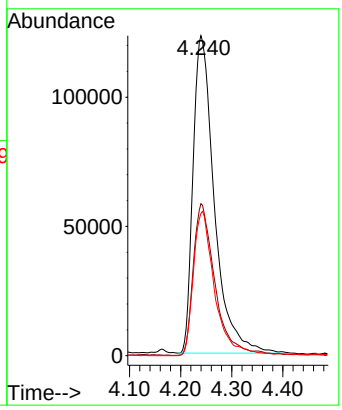


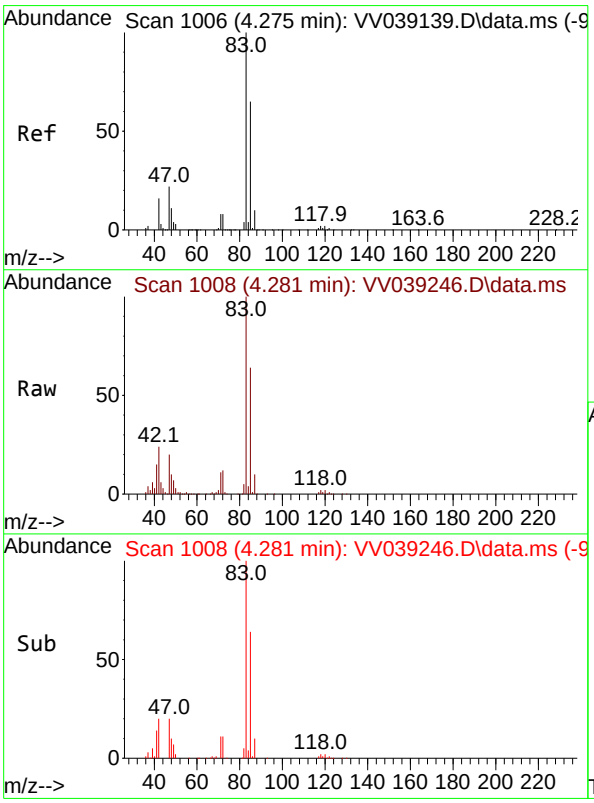
#29
Tetrahydrofuran
Concen: 92.448 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 42 Resp: 355912

Ion	Ratio	Lower	Upper
42	100		
72	47.9	36.3	54.5
71	45.4	34.3	51.5

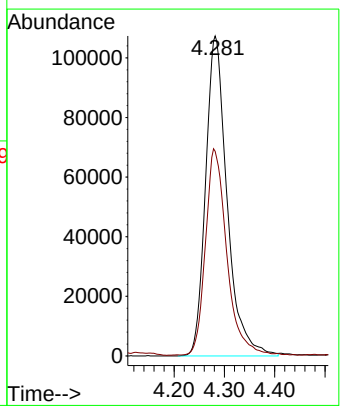


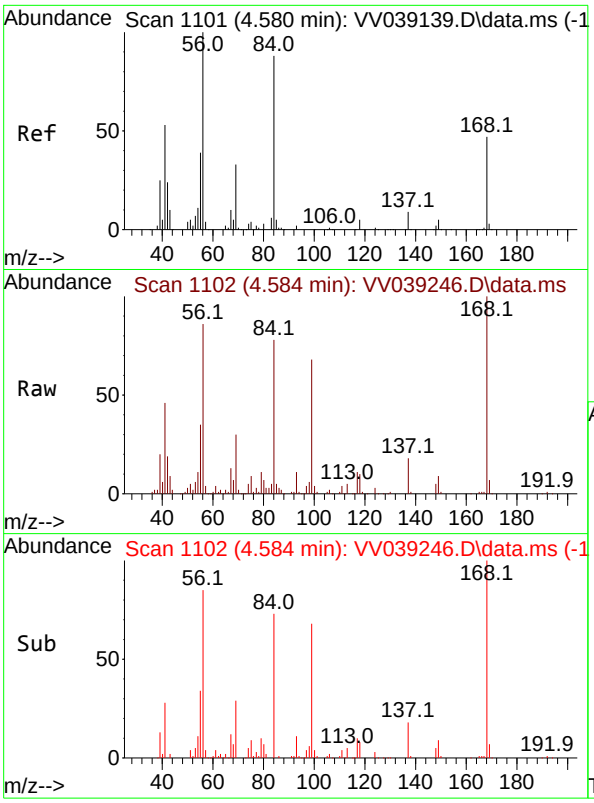


#30
Chloroform
Concen: 18.241 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 83 Resp: 318542

Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.1	78.1



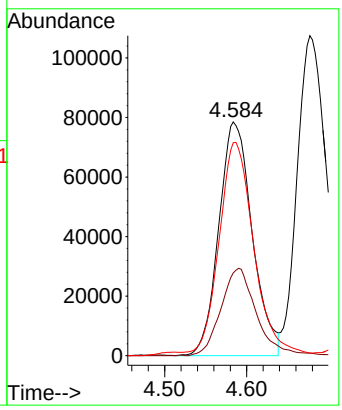


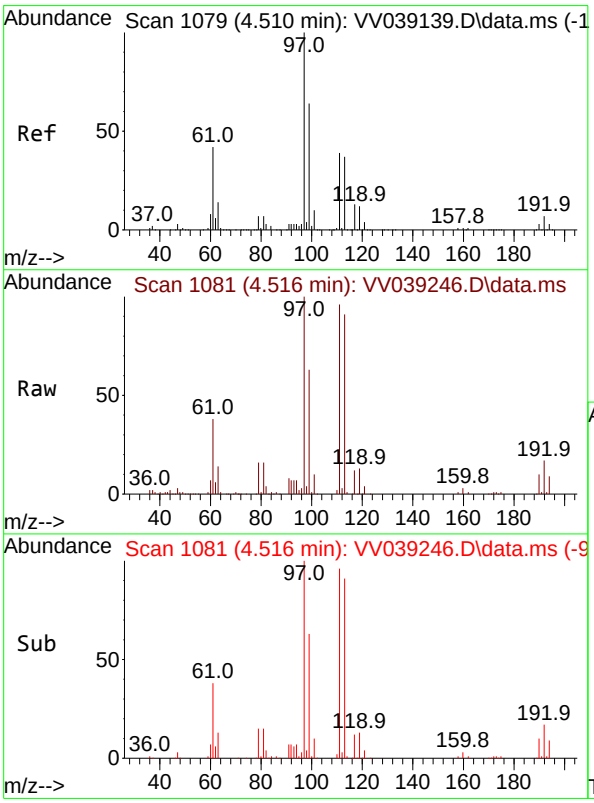
#31
Cyclohexane
Concen: 16.259 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 56 Resp: 222742

Ion	Ratio	Lower	Upper
56	100		
69	35.2	26.2	39.2
84	89.7	70.3	105.5

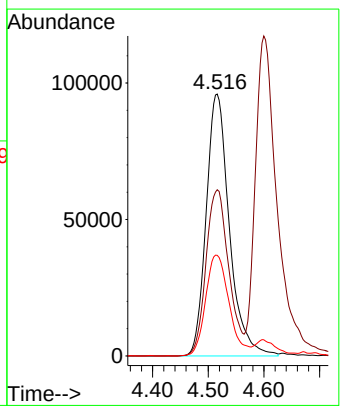


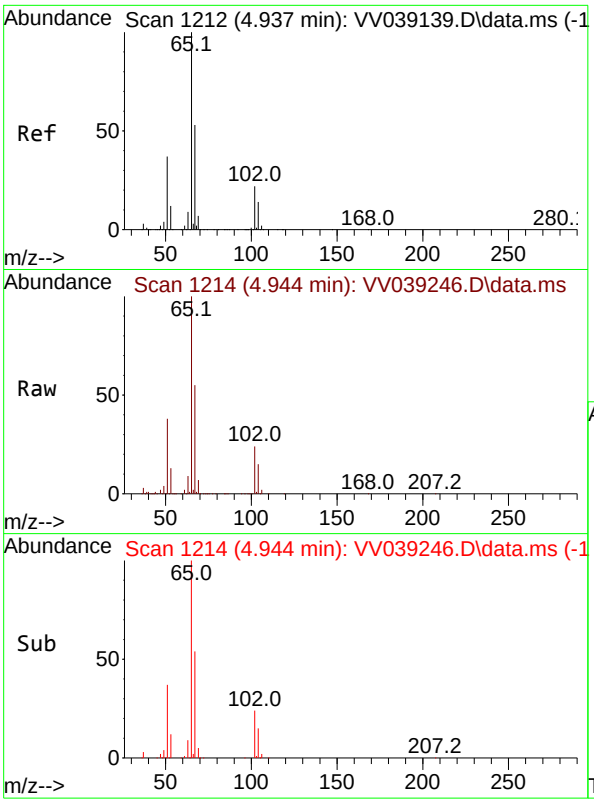


#32
1,1,1-Trichloroethane
Concen: 18.368 ug/l
RT: 4.516 min Scan# 1081
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 97 Resp: 277703

Ion	Ratio	Lower	Upper
97	100		
99	62.3	49.6	74.4
61	39.2	34.5	51.7



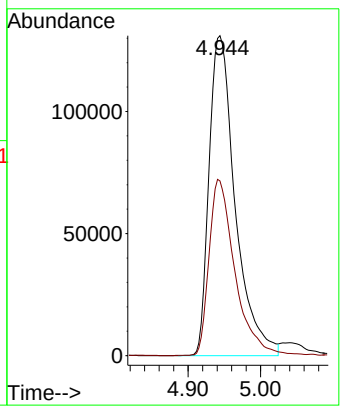


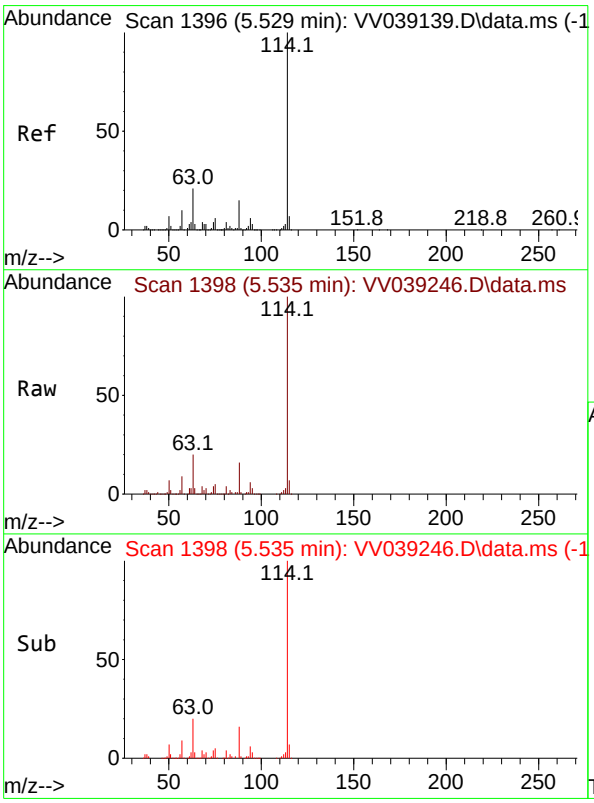
#33
1,2-Dichloroethane-d4
Concen: 42.788 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 65 Resp: 328654

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	107.0

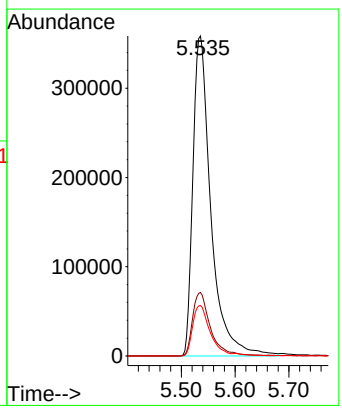


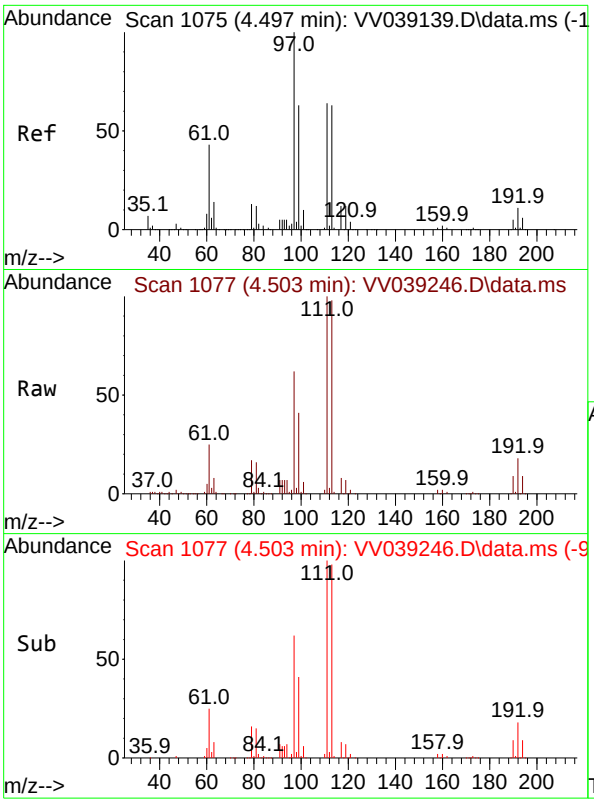


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:114 Resp: 834883

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	42.6
88	15.8	0.0	30.8



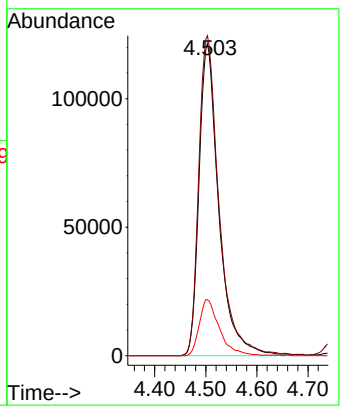


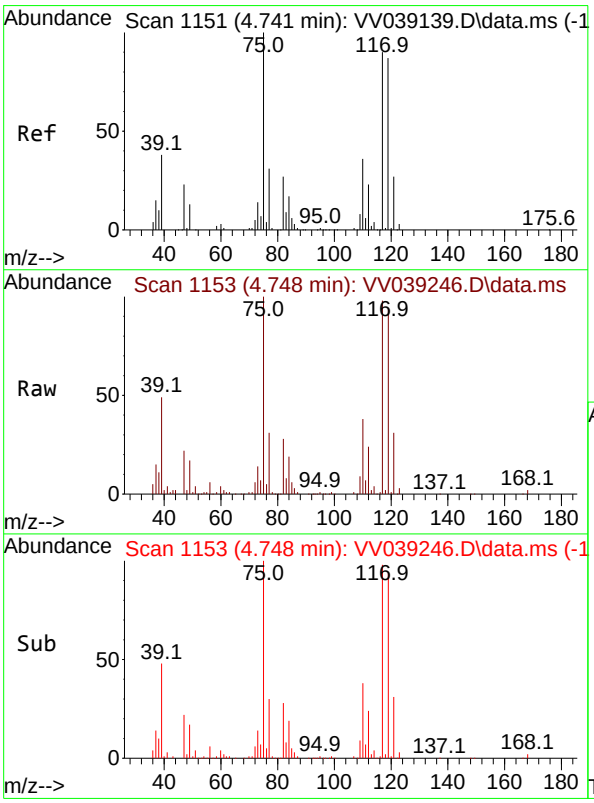
#35
Dibromofluoromethane
Concen: 48.578 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:113 Resp: 326044

Ion	Ratio	Lower	Upper
113	100		
111	105.2	82.4	123.6
192	18.3	13.8	20.8

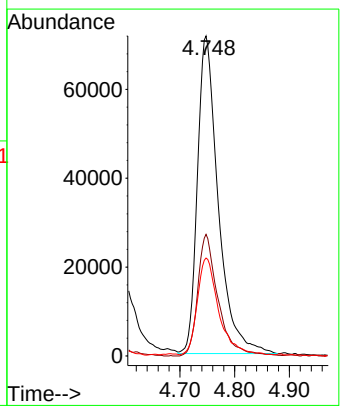


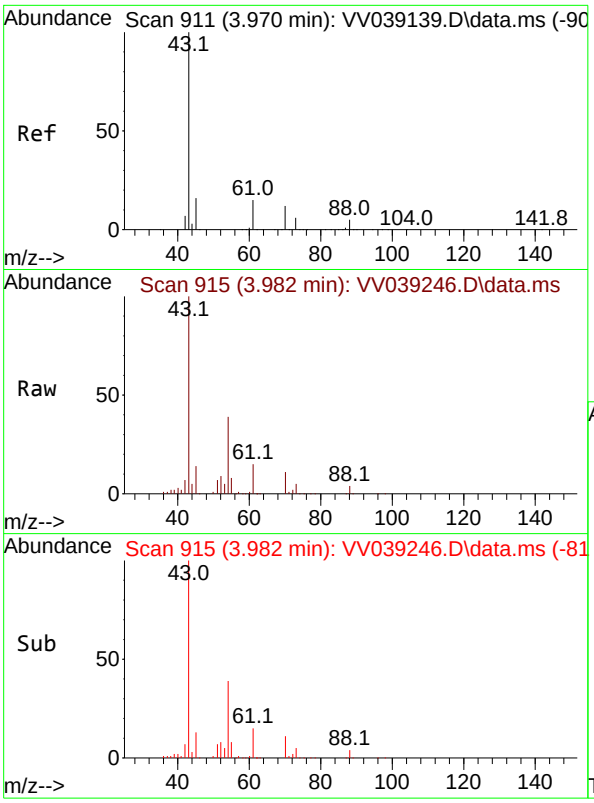


#36
1,1-Dichloropropene
Concen: 18.613 ug/l
RT: 4.748 min Scan# 1153
Delta R.T. 0.007 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 75 Resp: 188879

Ion	Ratio	Lower	Upper
75	100		
110	37.4	18.1	54.1
77	30.8	24.8	37.2



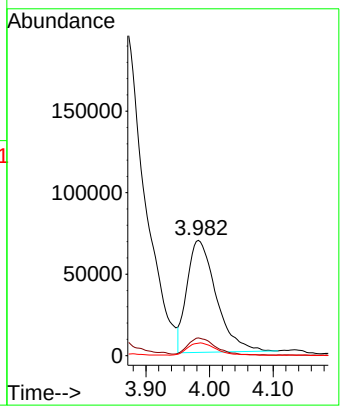


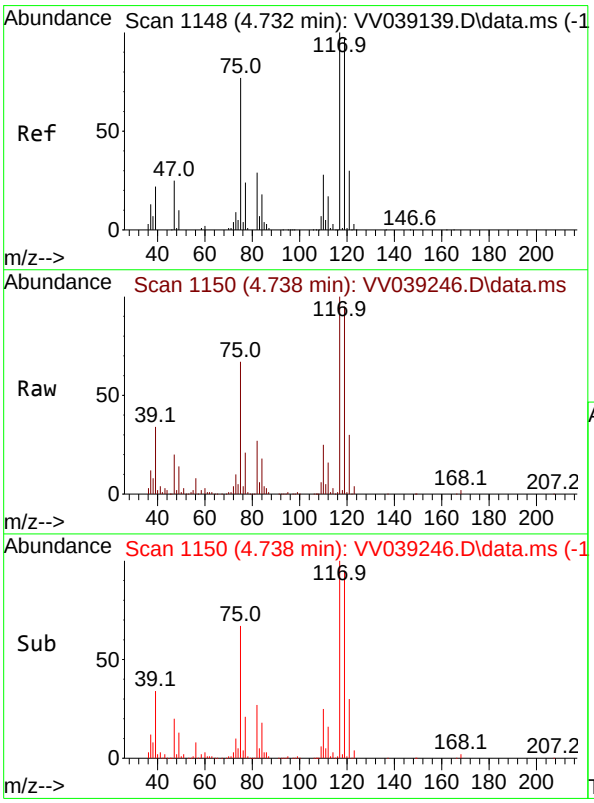
#37
Ethyl Acetate
Concen: 17.798 ug/l
RT: 3.982 min Scan# 91
Delta R.T. 0.012 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 43 Resp: 219152

Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.3	15.5
70	10.4	8.0	12.0

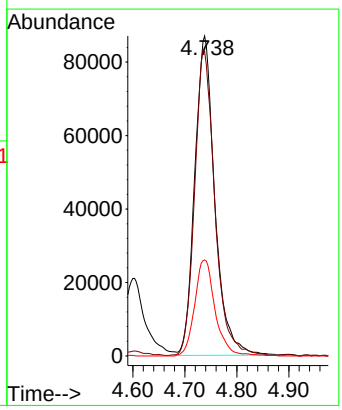


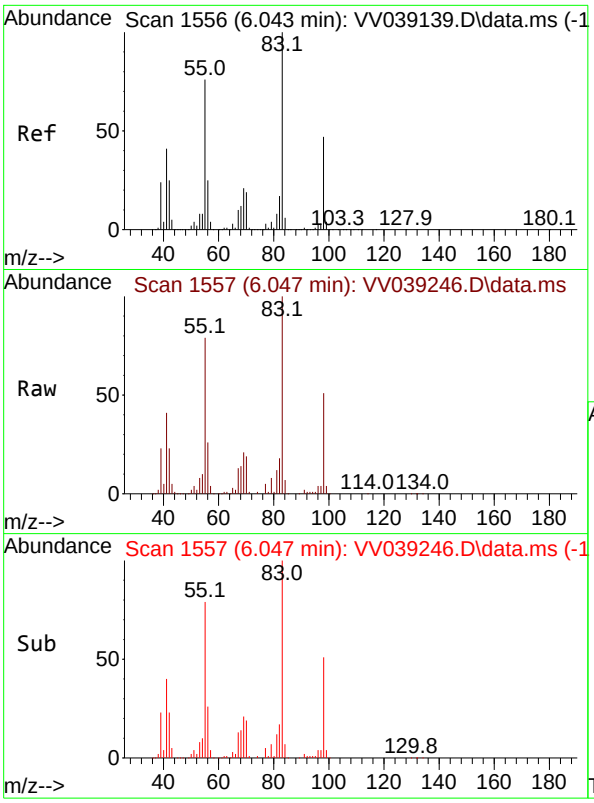


#38
Carbon Tetrachloride
Concen: 18.800 ug/l
RT: 4.738 min Scan# 1150
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:117 Resp: 233151

Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.2	115.8
121	30.1	24.2	36.2



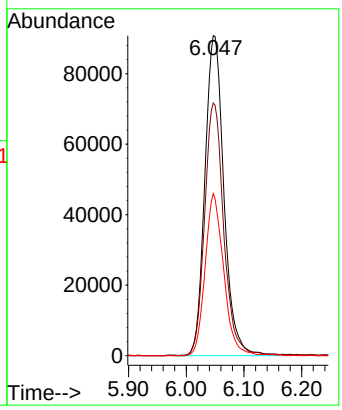


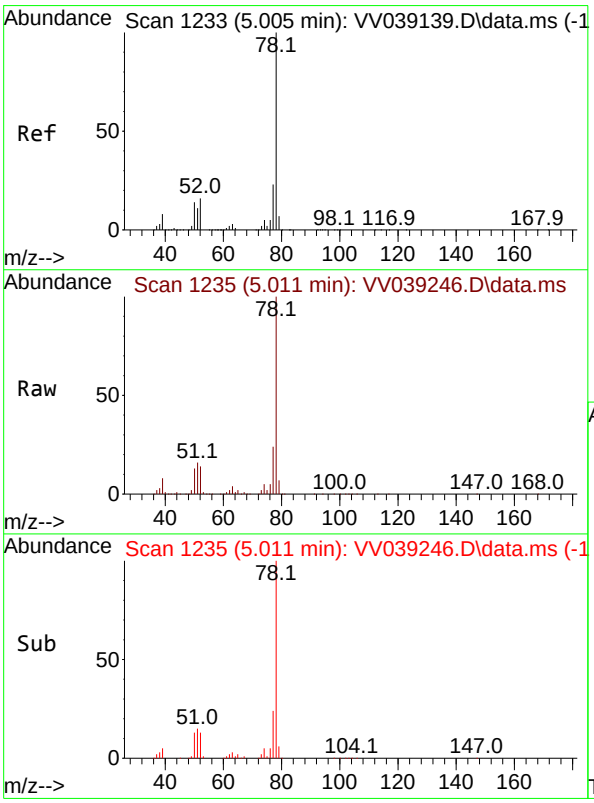
#39
Methylcyclohexane
Concen: 16.976 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 83 Resp: 208027

Ion	Ratio	Lower	Upper
83	100		
55	79.0	60.5	90.7
98	50.7	37.8	56.6

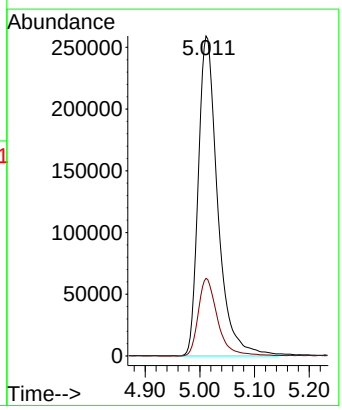


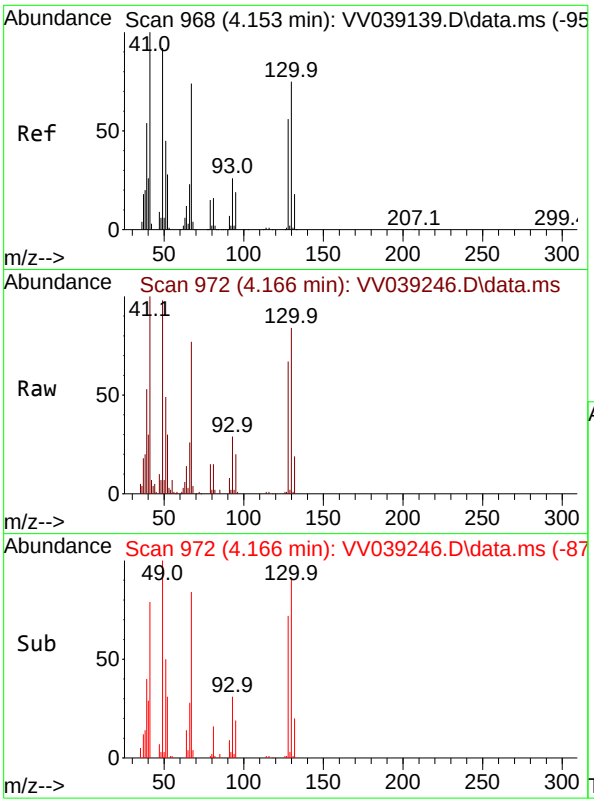


#40
Benzene
Concen: 19.301 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 78 Resp: 637793

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.7	28.1



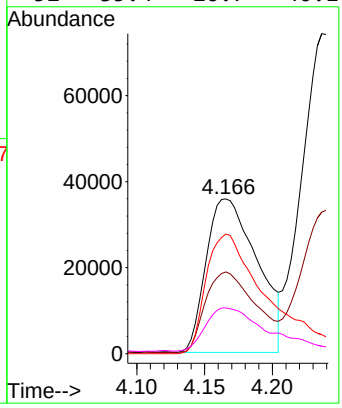


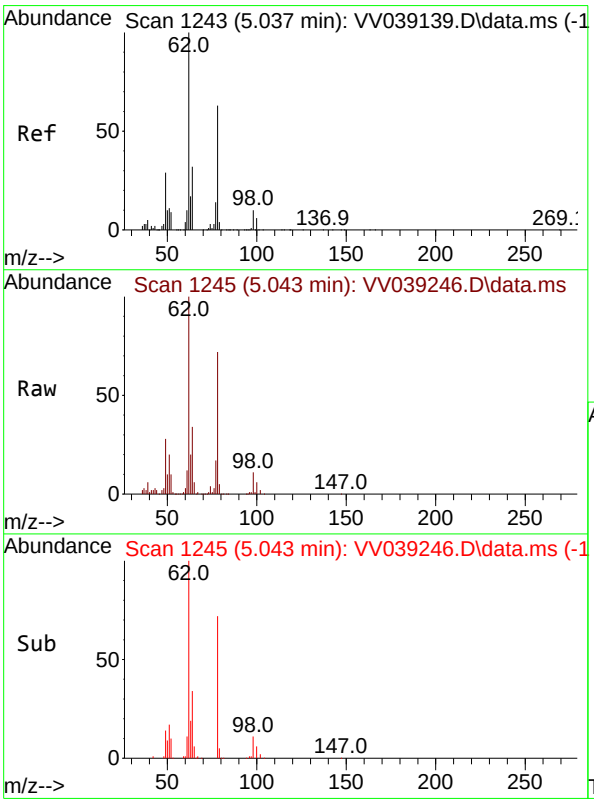
#41
Methacrylonitrile
Concen: 18.084 ug/l
RT: 4.166 min Scan# 9
Delta R.T. 0.013 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 41 Resp: 93622

Ion	Ratio	Lower	Upper
41	100		
39	52.4	42.2	63.2
67	93.5	67.9	101.9
52	35.4	26.7	40.1

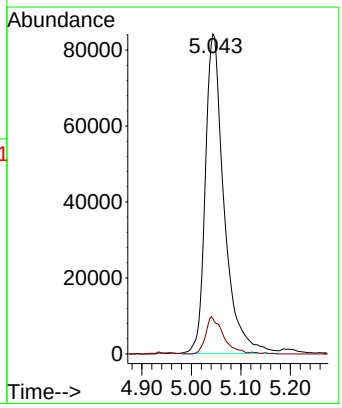


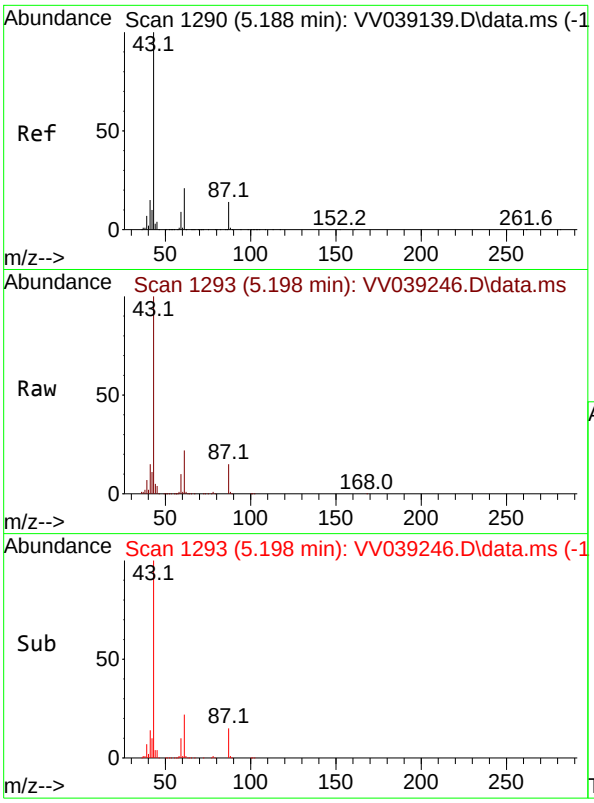


#42
1,2-Dichloroethane
Concen: 19.138 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 62 Resp: 221588

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	19.2



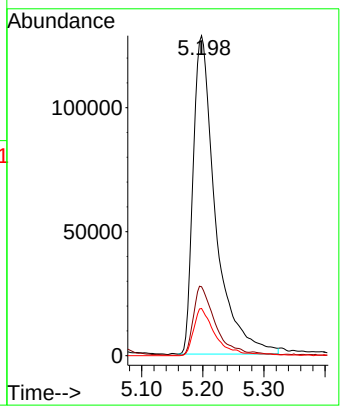


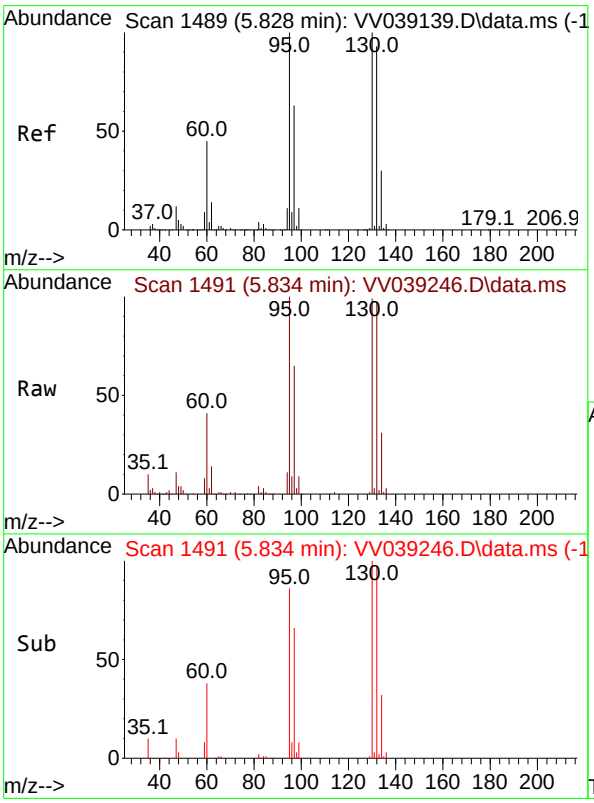
#43
Isopropyl Acetate
Concen: 19.491 ug/l
RT: 5.198 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 43 Resp: 327228

Ion	Ratio	Lower	Upper
43	100		
61	20.7	15.9	23.9
87	14.3	11.0	16.6

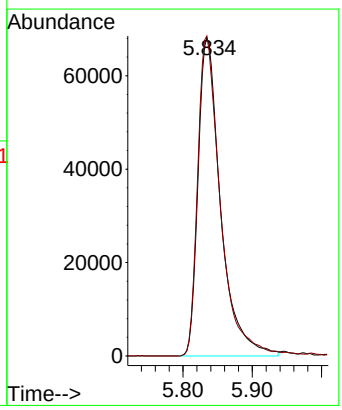


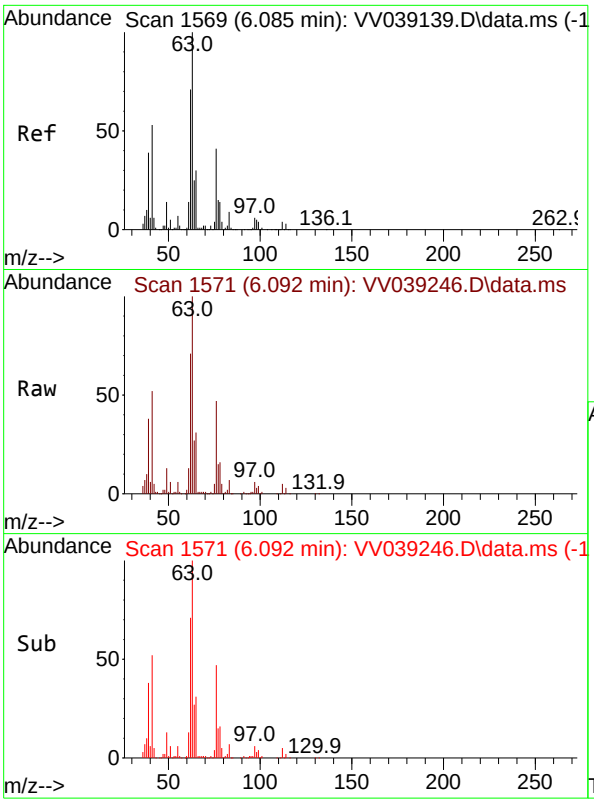


#44
Trichloroethene
Concen: 20.259 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:130 Resp: 154476

Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	199.2



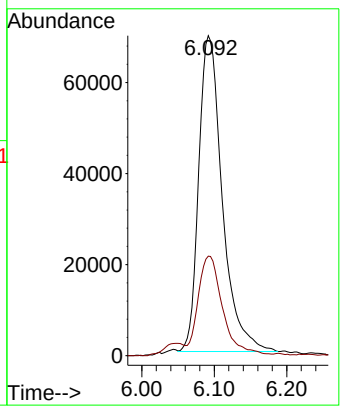


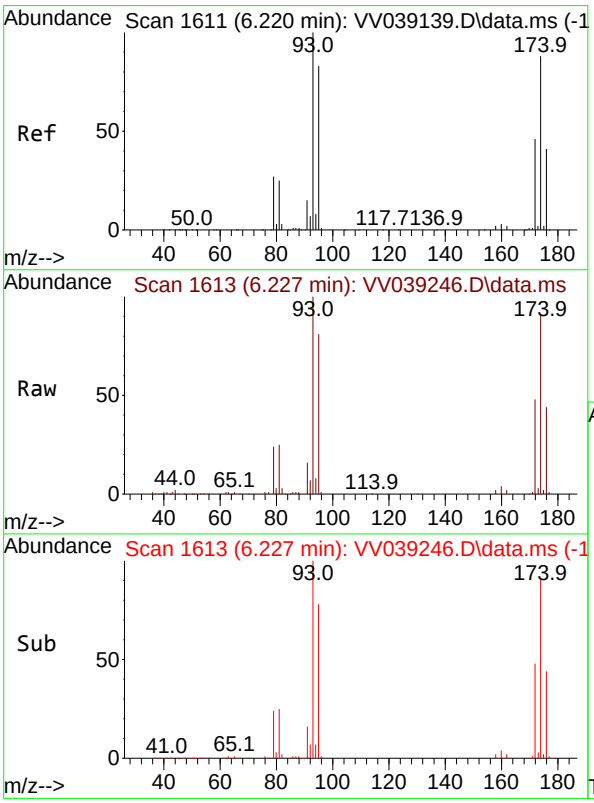
#45
1,2-Dichloropropane
Concen: 19.078 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 63 Resp: 156695

Ion	Ratio	Lower	Upper
63	100		
65	30.8	23.7	35.5

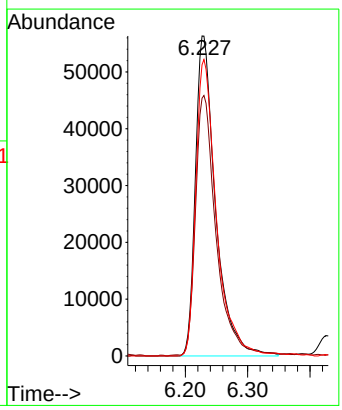


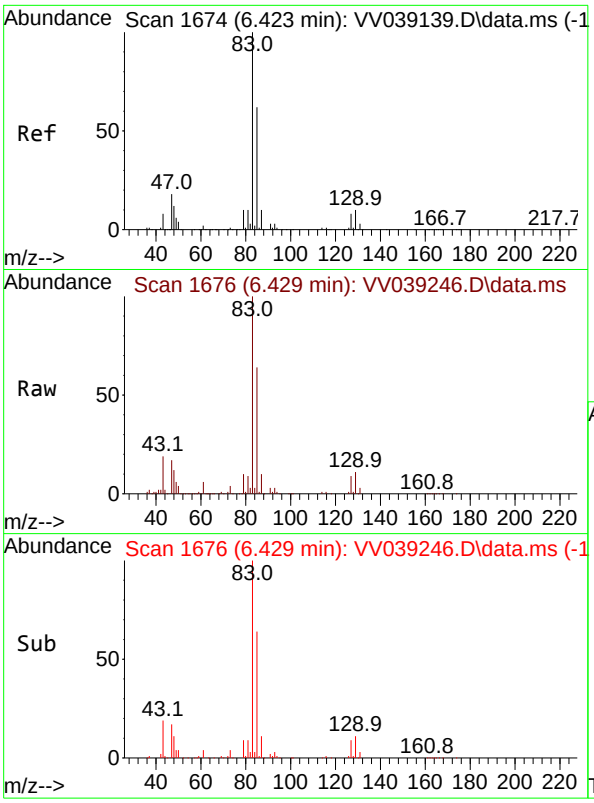


#46
Dibromomethane
Concen: 20.117 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 93 Resp: 126461

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.5	98.3
174	94.5	69.0	103.4



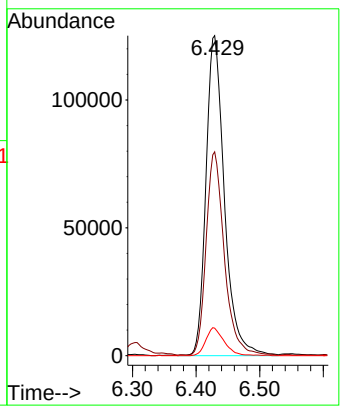


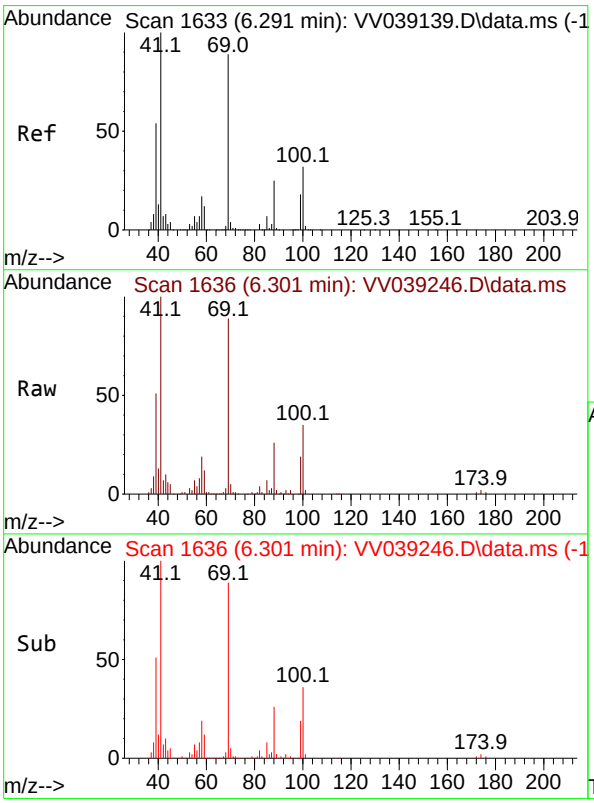
#47
Bromodichloromethane
Concen: 19.436 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 83 Resp: 252593

Ion	Ratio	Lower	Upper
83	100		
85	63.5	49.7	74.5
127	8.6	6.6	9.8

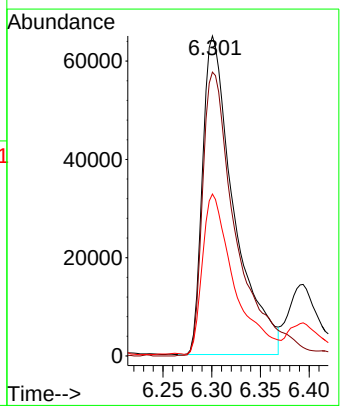


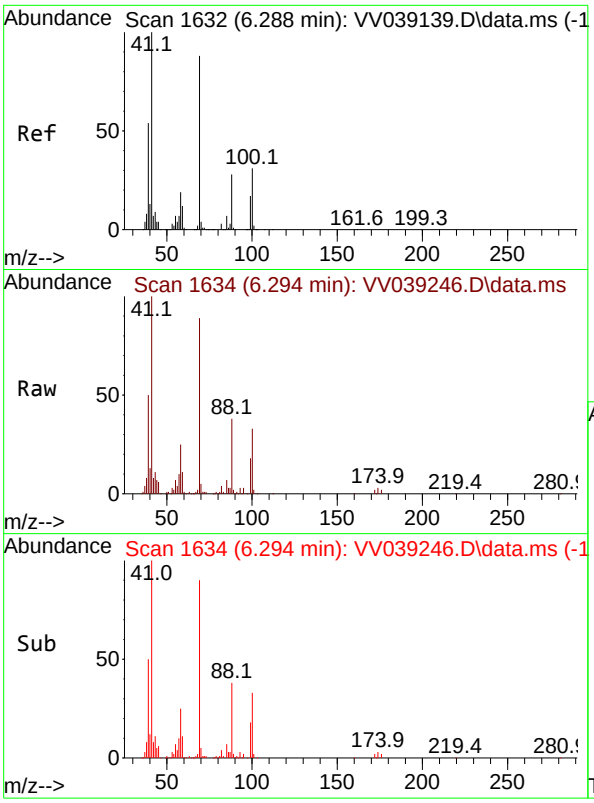


#48
Methyl methacrylate
Concen: 19.024 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 41 Resp: 144785

Ion	Ratio	Lower	Upper
41	100		
69	96.7	72.4	108.6
39	51.1	42.5	63.7



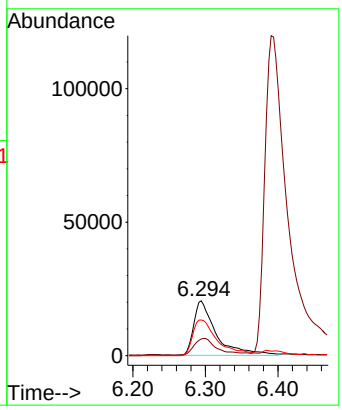


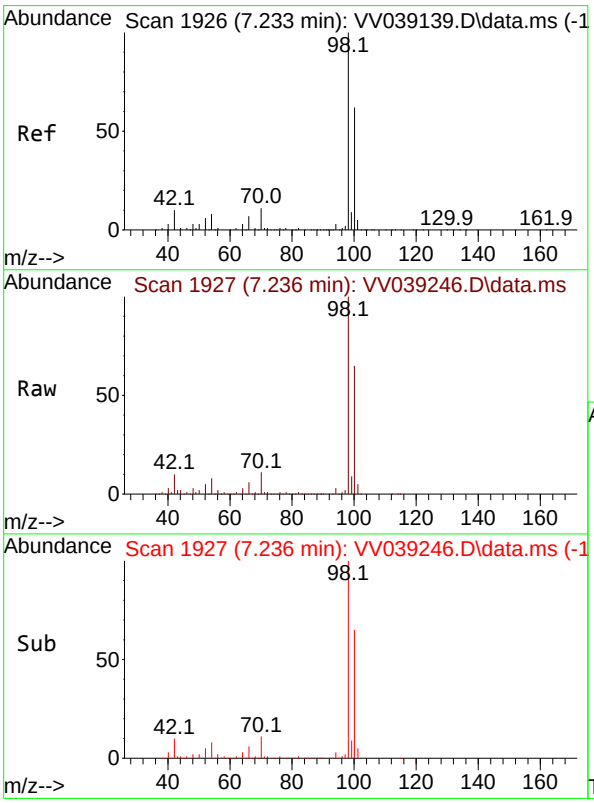
#49
1,4-Dioxane
Concen: 358.959 ug/l
RT: 6.294 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 88 Resp: 44086

Ion	Ratio	Lower	Upper
88	100		
43	30.2	25.1	37.7
58	72.3	53.6	80.4

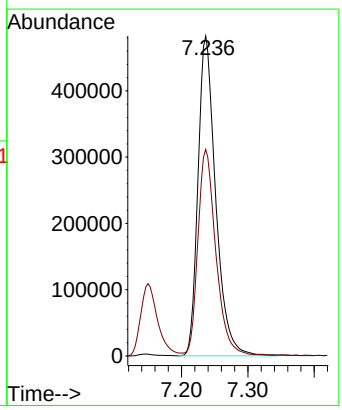


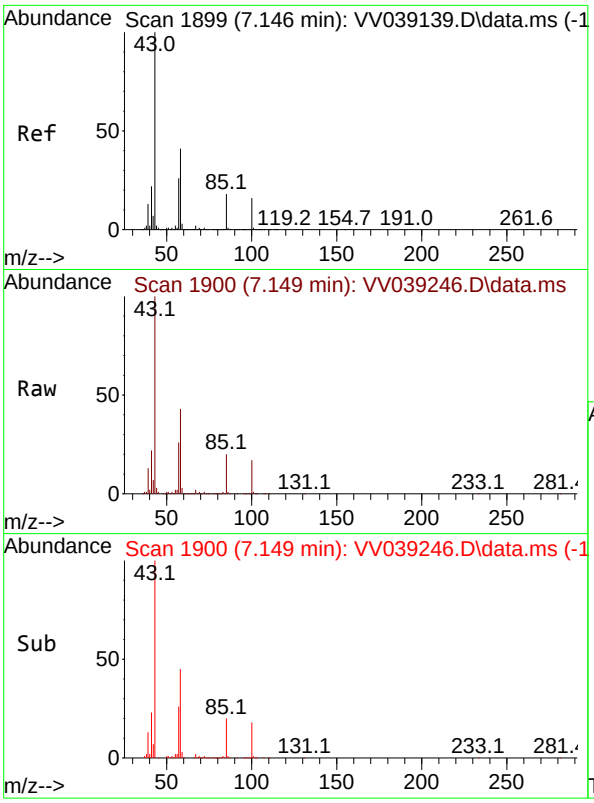


#50
Toluene-d8
Concen: 45.278 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 98 Resp: 892549

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.2	78.2



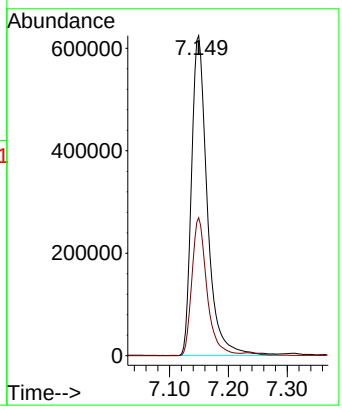


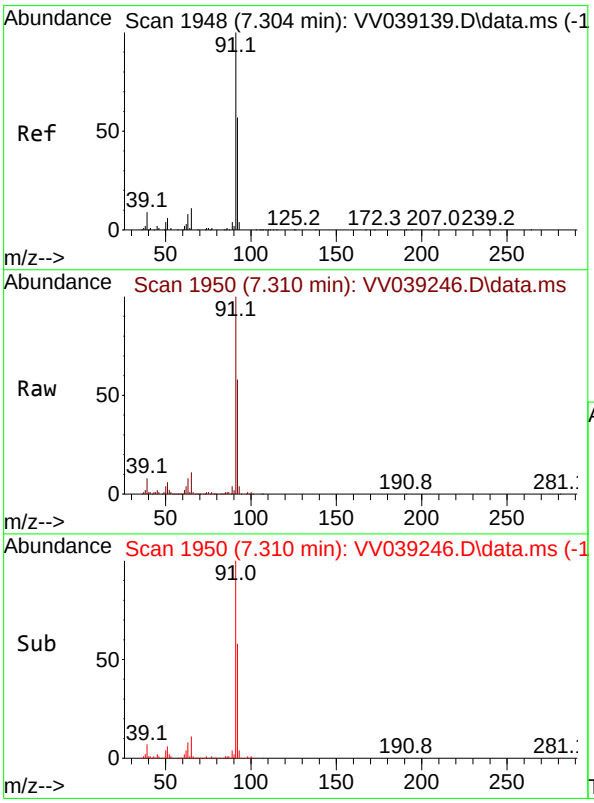
#51
4-Methyl-2-Pentanone
Concen: 105.425 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 43 Resp: 1164431

Ion	Ratio	Lower	Upper
43	100		
58	41.3	32.3	48.5

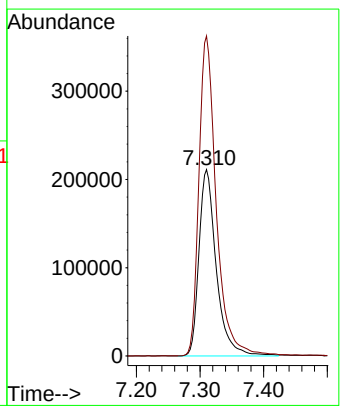


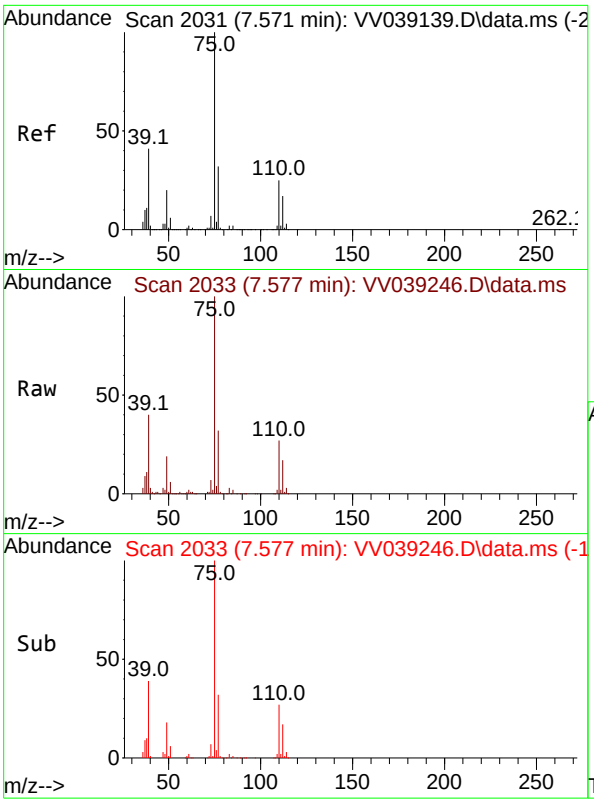


#52
Toluene
Concen: 20.898 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 92 Resp: 400377

Ion	Ratio	Lower	Upper
92	100		
91	171.4	139.2	208.8



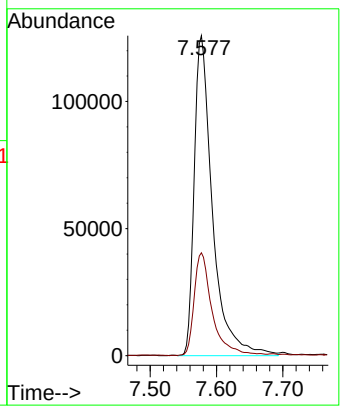


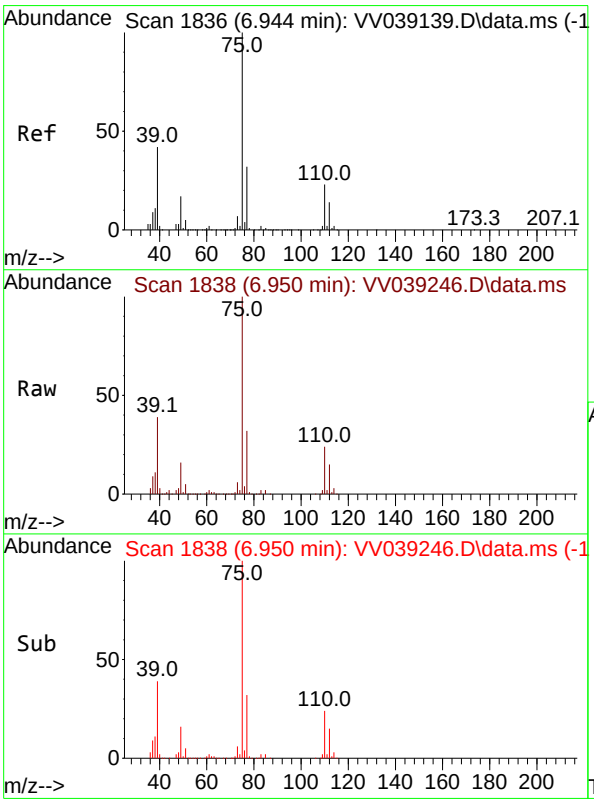
#53
t-1,3-Dichloropropene
Concen: 21.288 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 75 Resp: 241108

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.9	38.9

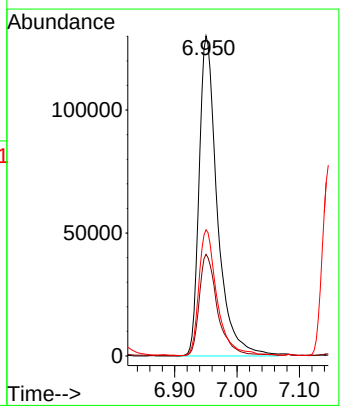


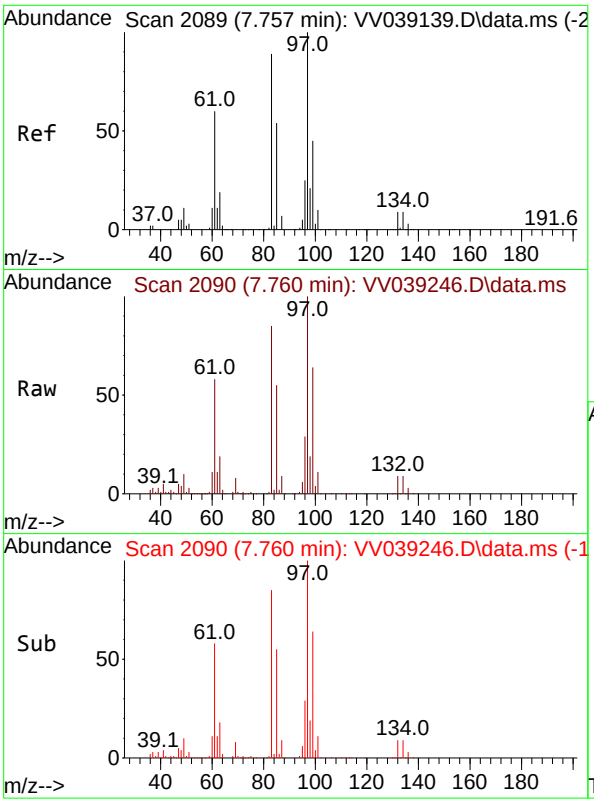


#54
cis-1,3-Dichloropropene
Concen: 21.095 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 75 Resp: 263751

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.5	38.3
39	39.3	33.8	50.6



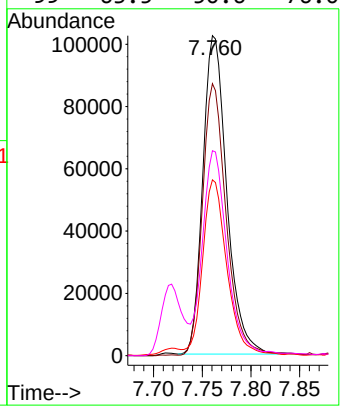


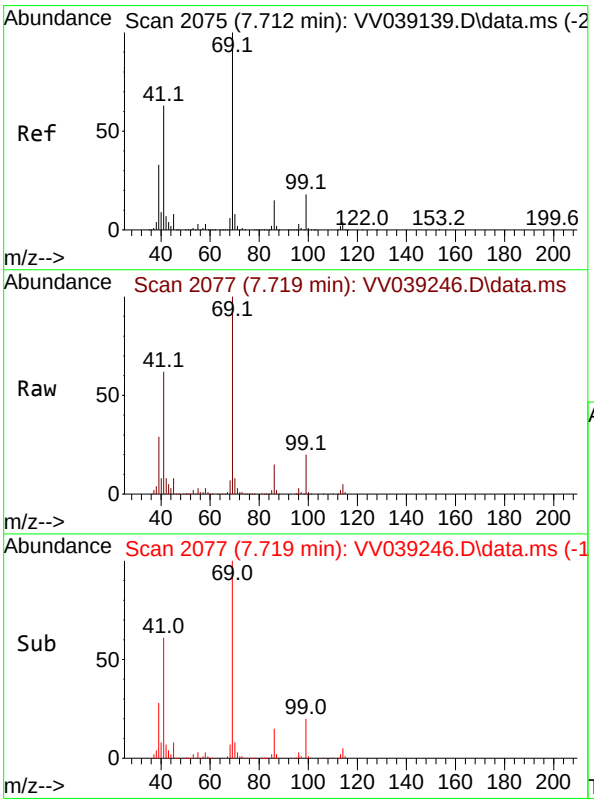
#55
1,1,2-Trichloroethane
Concen: 20.392 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 97 Resp: 175184

Ion	Ratio	Lower	Upper
97	100		
83	85.3	71.1	106.7
85	54.6	44.6	67.0
99	63.5	50.6	76.0

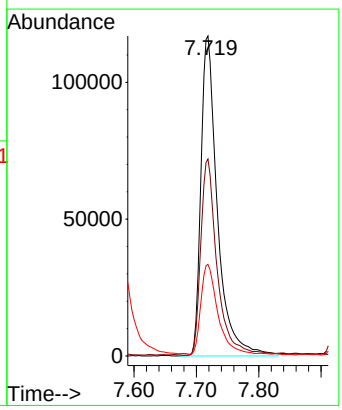


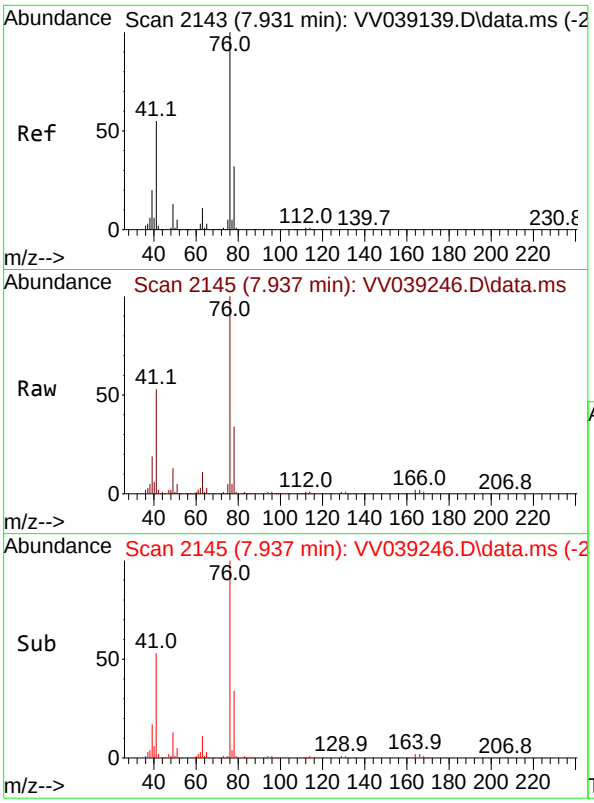


#56
Ethyl methacrylate
Concen: 21.095 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 69 Resp: 215210

Ion	Ratio	Lower	Upper
69	100		
41	60.9	50.7	76.1
39	28.7	26.0	39.0



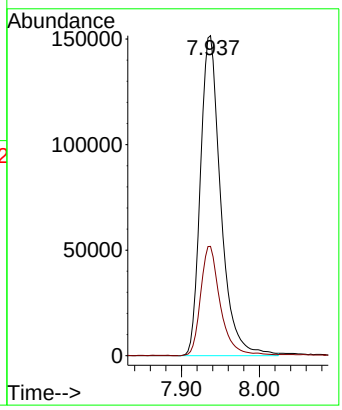


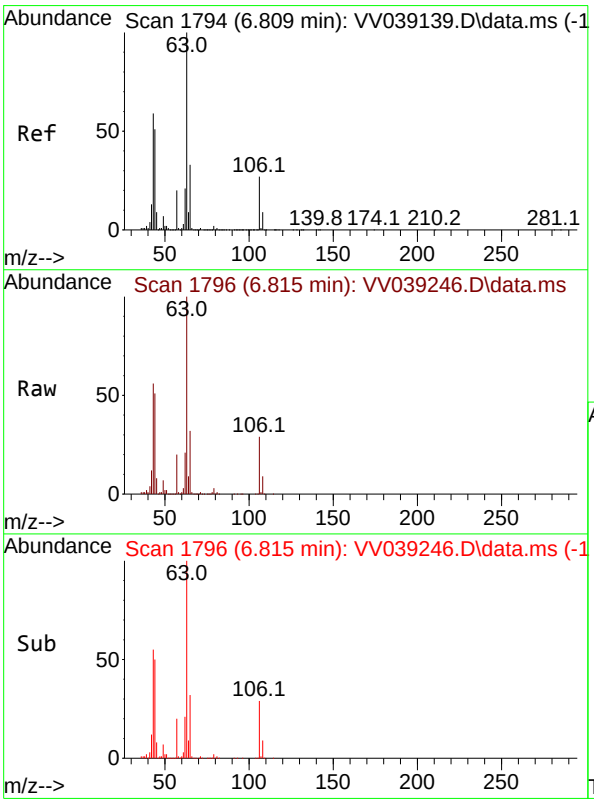
#57
1,3-Dichloropropane
Concen: 20.267 ug/l
RT: 7.937 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 76 Resp: 274772

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.1	39.1

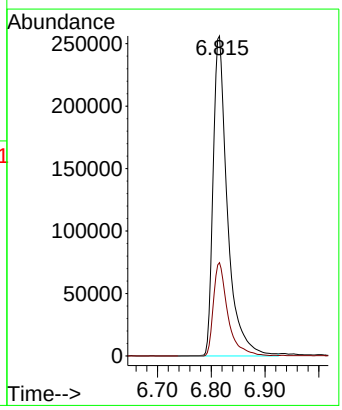


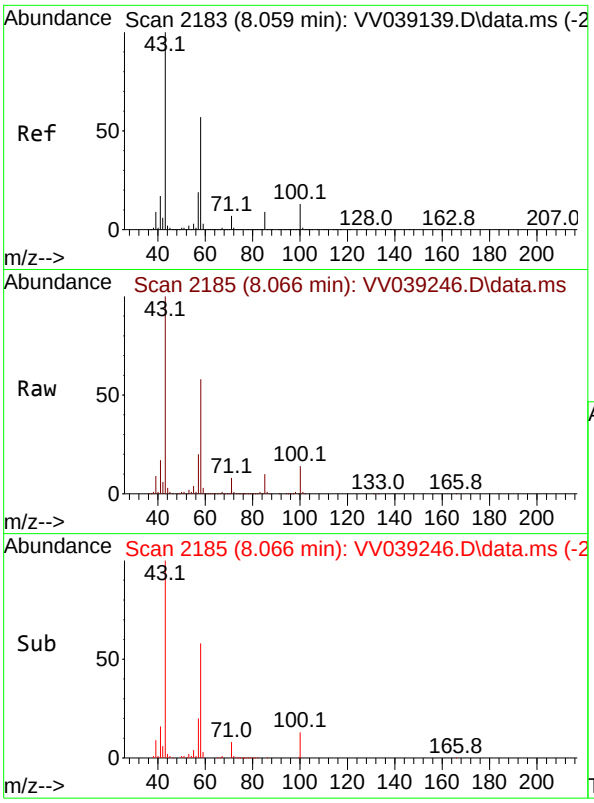


#58
2-Chloroethyl Vinyl ether
Concen: 88.830 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 63 Resp: 474541

Ion	Ratio	Lower	Upper
63	100		
106	29.3	22.1	33.1



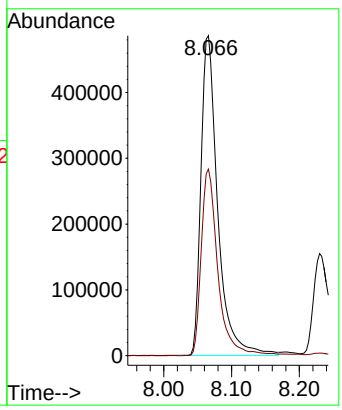


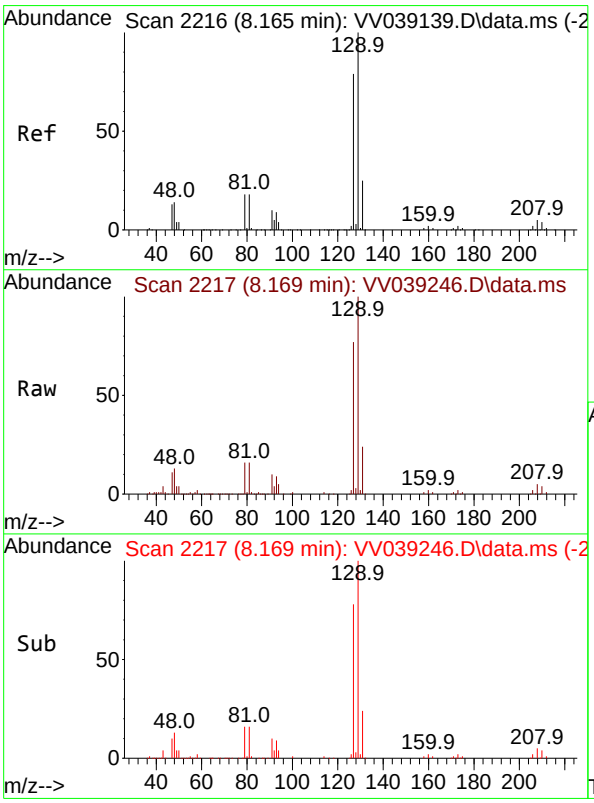
#59
2-Hexanone
Concen: 95.188 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 43 Resp: 835694

Ion	Ratio	Lower	Upper
43	100		
58	57.4	28.3	85.0

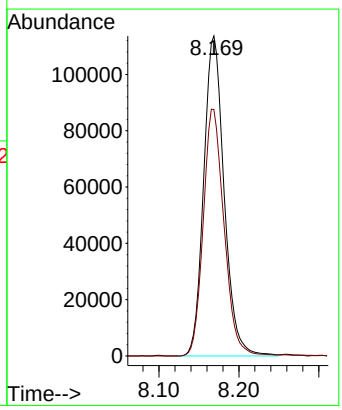


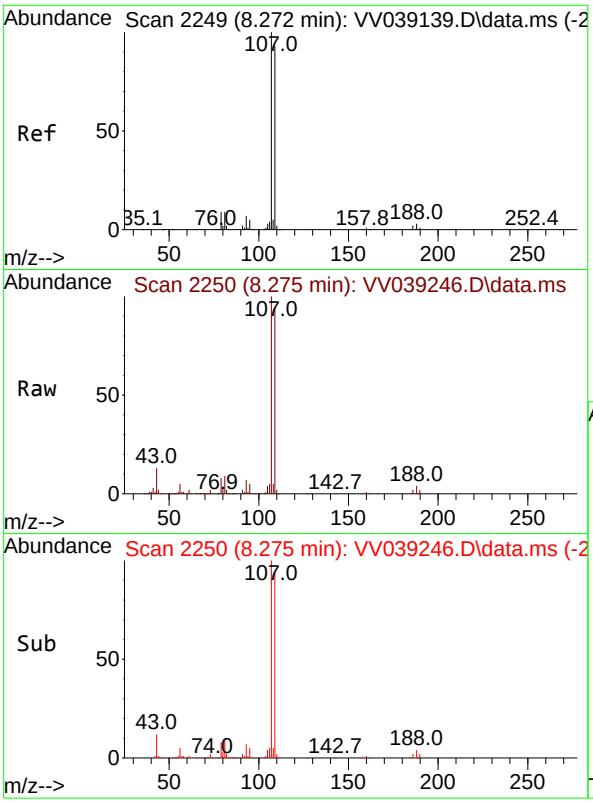


#60
Dibromochloromethane
Concen: 20.644 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:129 Resp: 202074

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.3	117.9



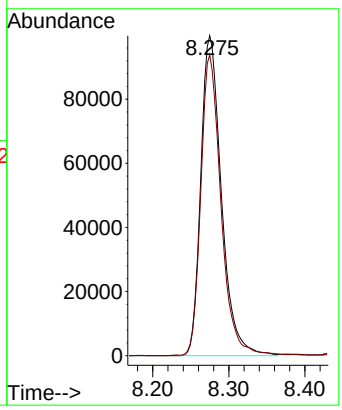


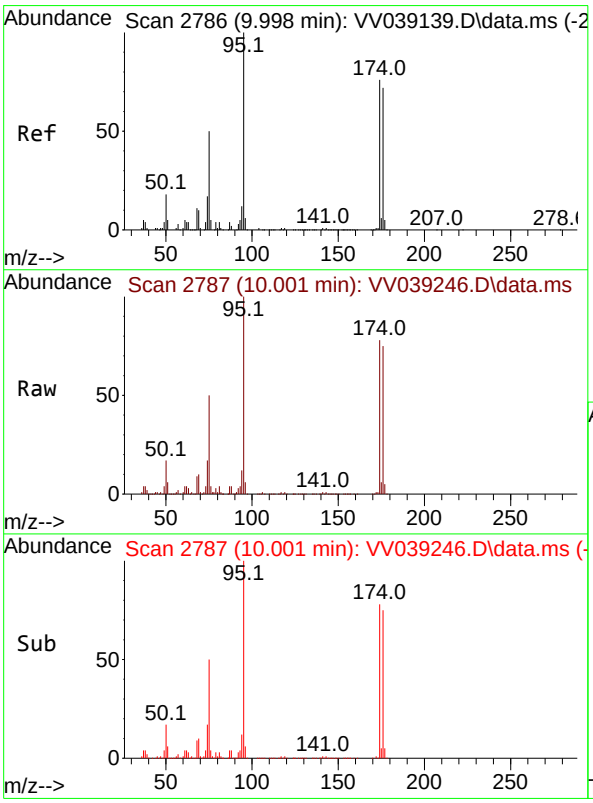
#61
1,2-Dibromoethane
Concen: 21.409 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:107 Resp: 188087

Ion	Ratio	Lower	Upper
107	100		
109	91.8	74.6	112.0

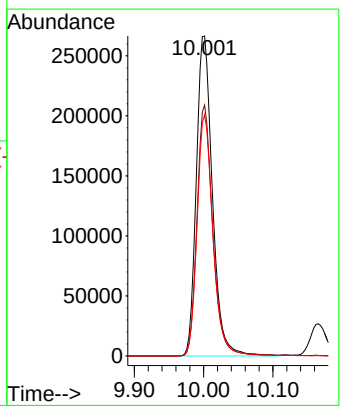


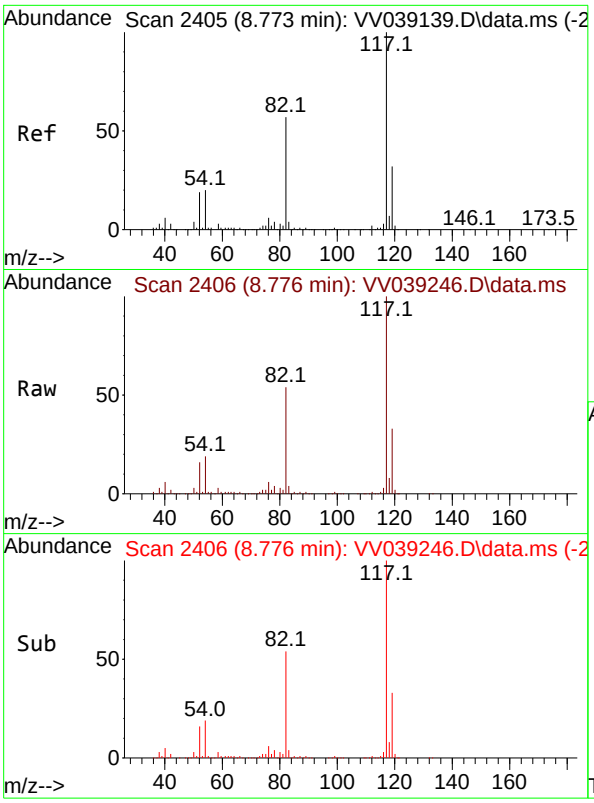


#62
4-Bromofluorobenzene
Concen: 53.172 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 95 Resp: 431498

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	150.4
176	74.2	0.0	144.2



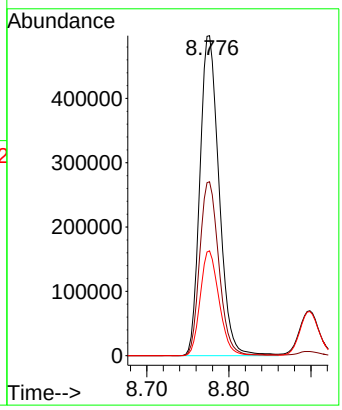


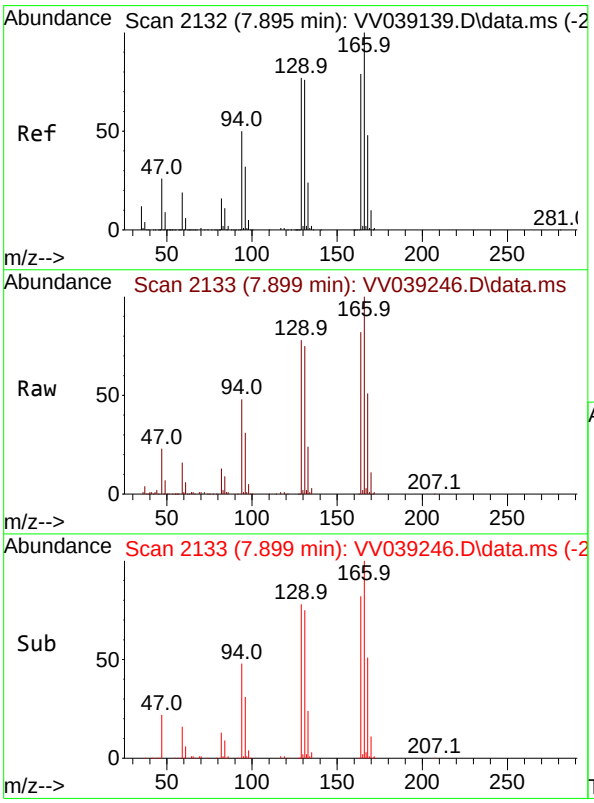
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:117 Resp: 807929

Ion	Ratio	Lower	Upper
117	100		
82	54.4	45.4	68.2
119	32.7	25.6	38.4

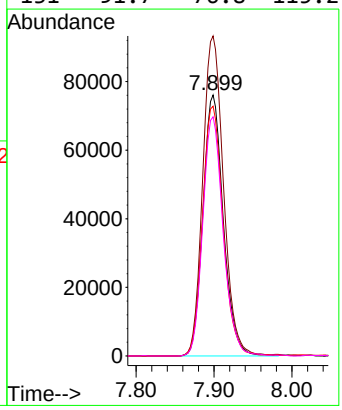


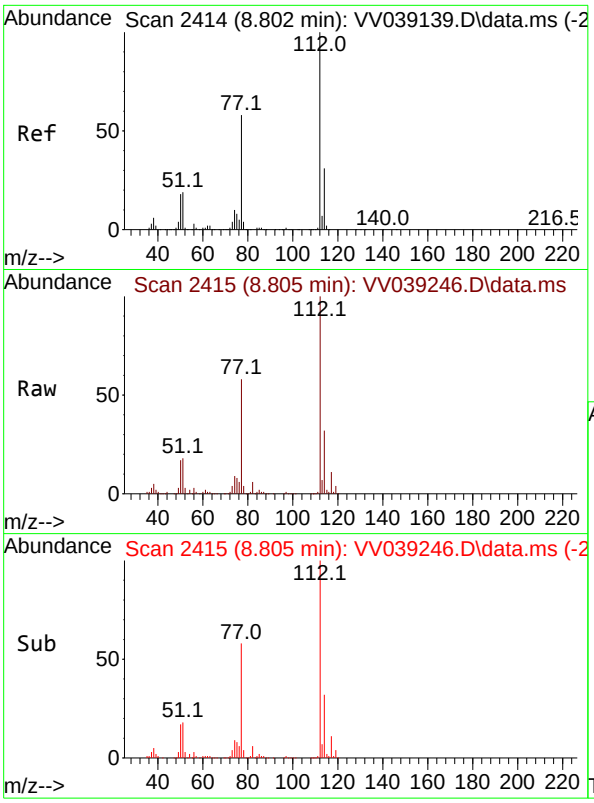


#64
Tetrachloroethene
Concen: 20.420 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:164 Resp: 138188

Ion	Ratio	Lower	Upper
164	100		
166	122.6	101.6	152.4
129	95.7	78.5	117.7
131	91.7	76.8	115.2



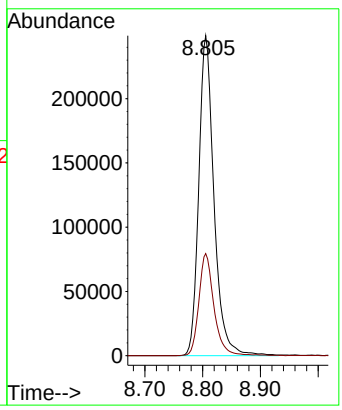


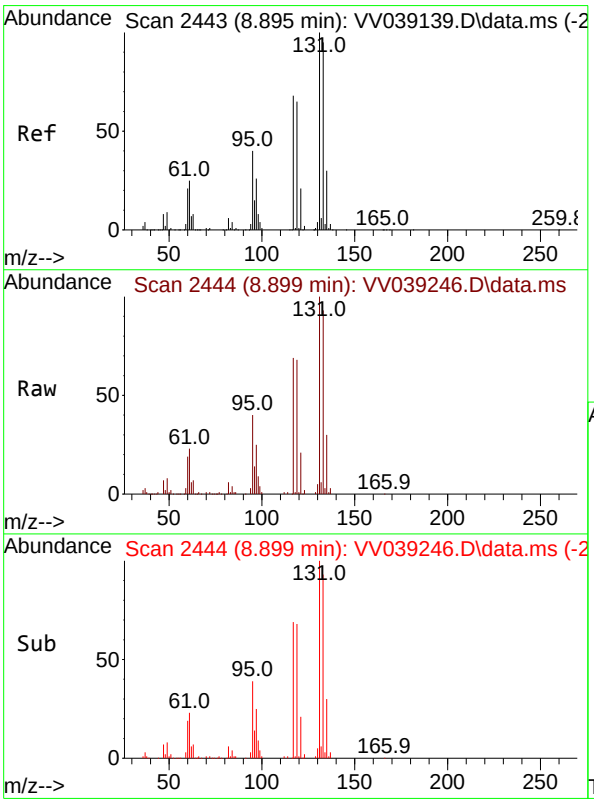
#65
Chlorobenzene
Concen: 20.212 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:112 Resp: 454849

Ion	Ratio	Lower	Upper
112	100		
114	31.9	24.6	37.0

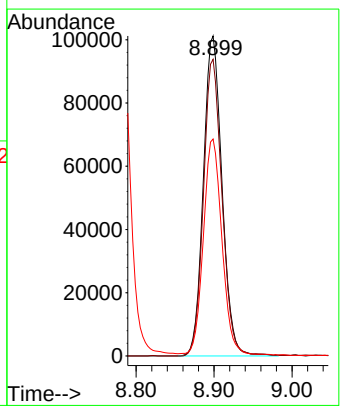


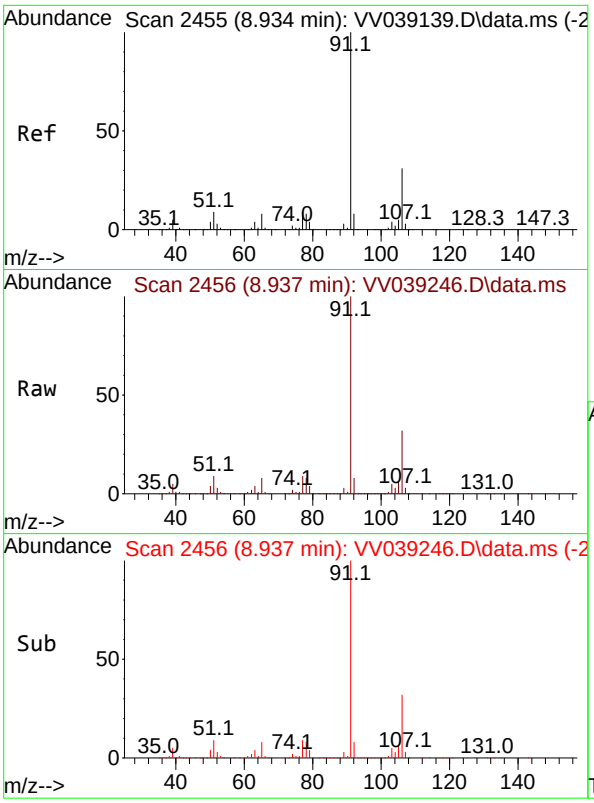


#66
1,1,1,2-Tetrachloroethane
Concen: 20.697 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:131 Resp: 168298

Ion	Ratio	Lower	Upper
131	100		
133	92.0	47.3	141.8
119	66.8	33.3	99.8



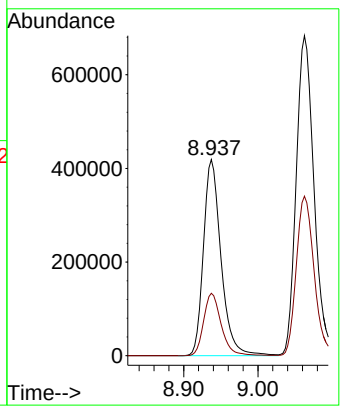


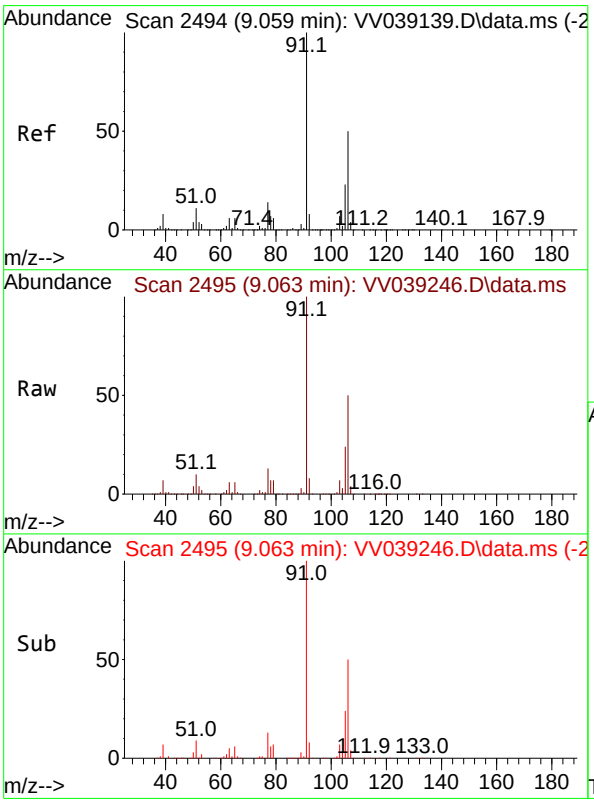
#67
Ethyl Benzene
Concen: 20.232 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 91 Resp: 689222

Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.6	37.0

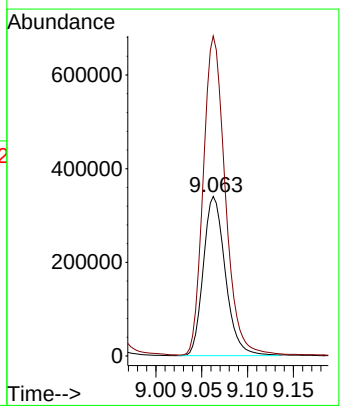


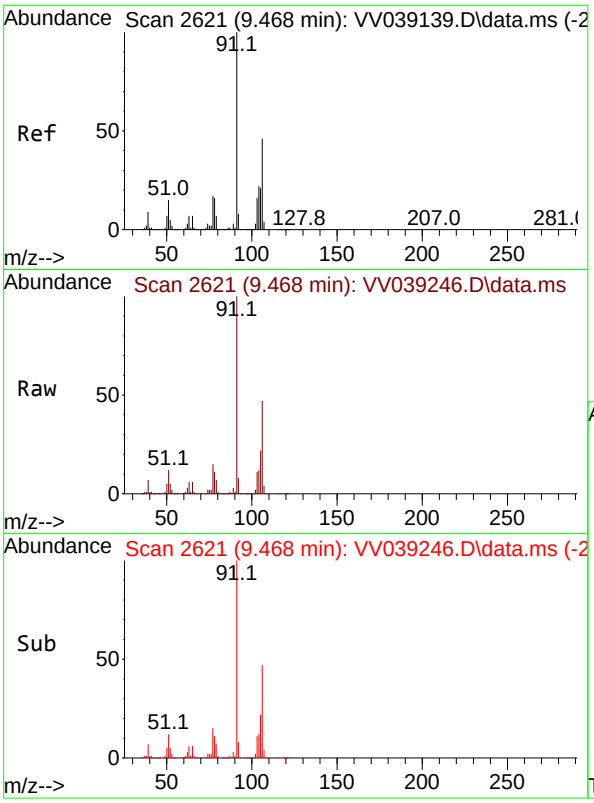


#68
m/p-Xylenes
Concen: 43.267 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:106 Resp: 568873

Ion	Ratio	Lower	Upper
106	100		
91	202.2	162.5	243.7



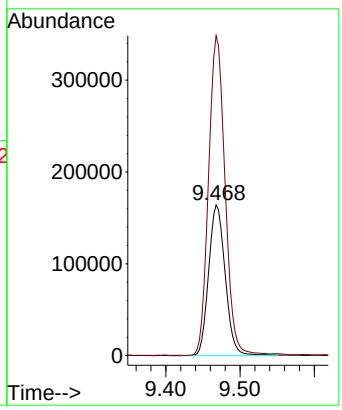


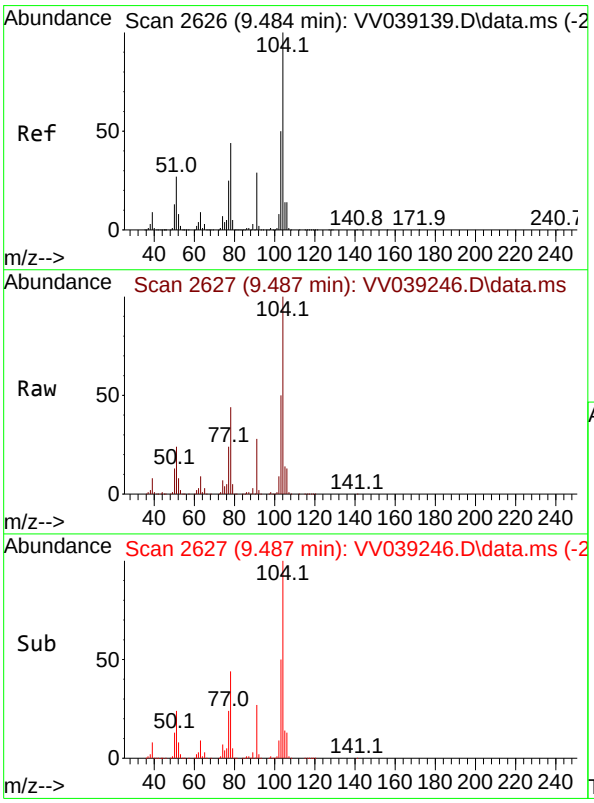
#69
o-Xylene
Concen: 21.827 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:106 Resp: 254107

Ion	Ratio	Lower	Upper
106	100		
91	211.4	109.1	327.3

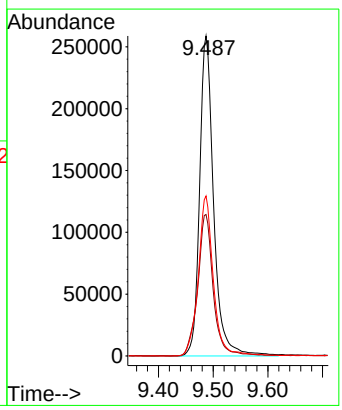


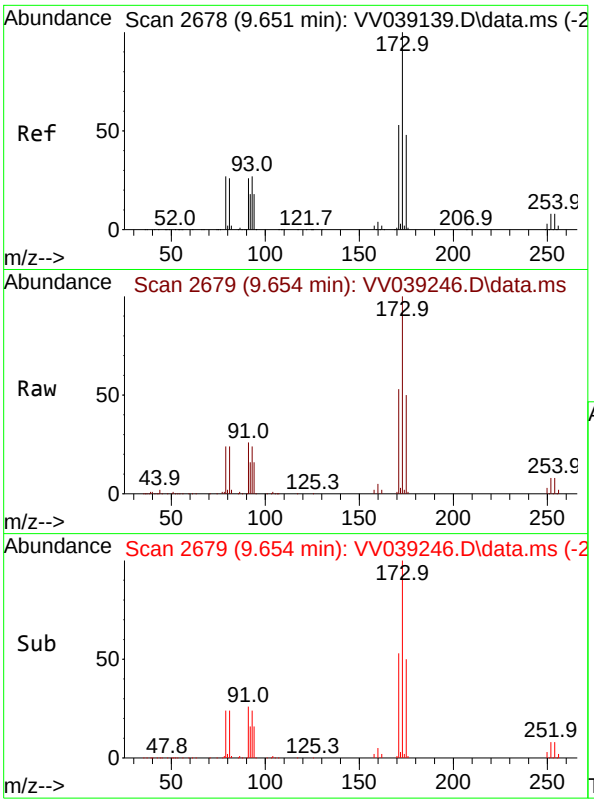


#70
Styrene
Concen: 19.600 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:104 Resp: 461186

Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.8	59.6
103	54.1	43.4	65.2



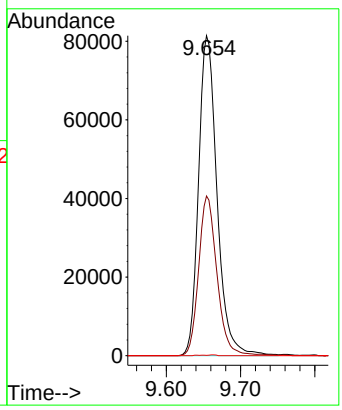


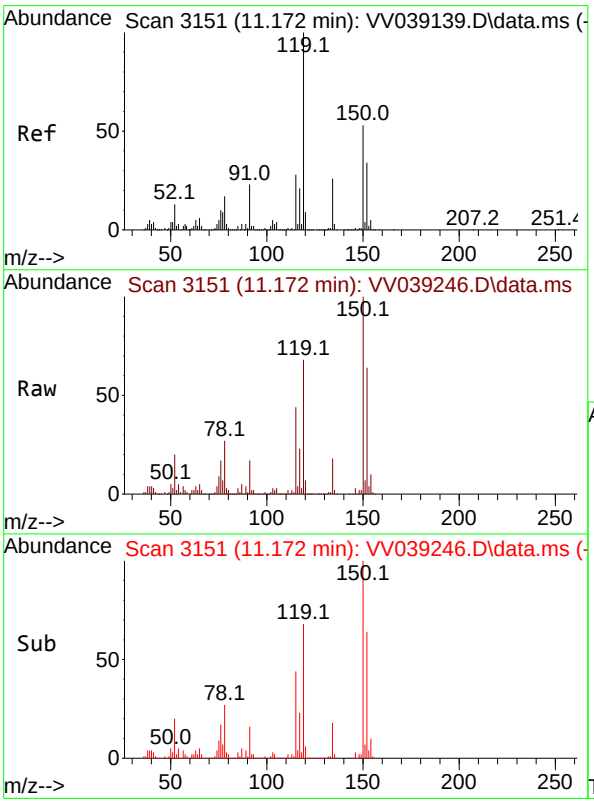
#71
Bromoform
Concen: 22.191 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:173 Resp: 140950

Ion	Ratio	Lower	Upper
173	100		
175	49.3	23.9	71.7
254	0.1	0.1	0.1

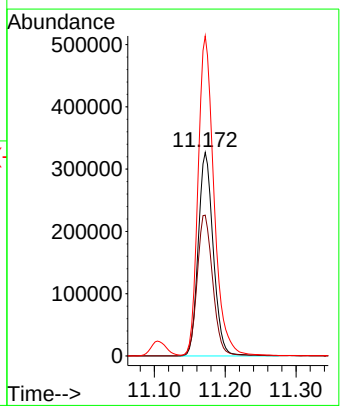


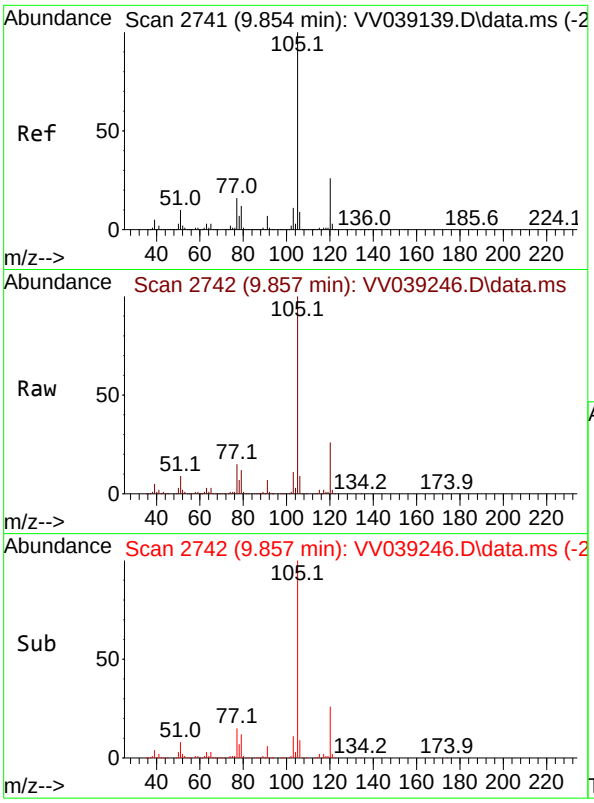


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:152 Resp: 481201

Ion	Ratio	Lower	Upper
152	100		
115	71.4	44.8	134.4
150	166.7	0.0	353.8



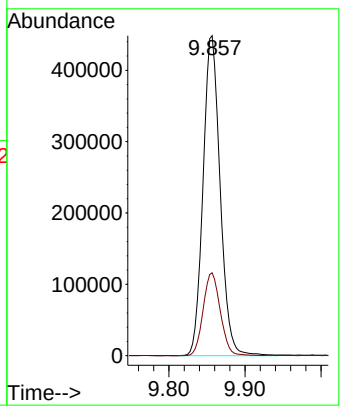


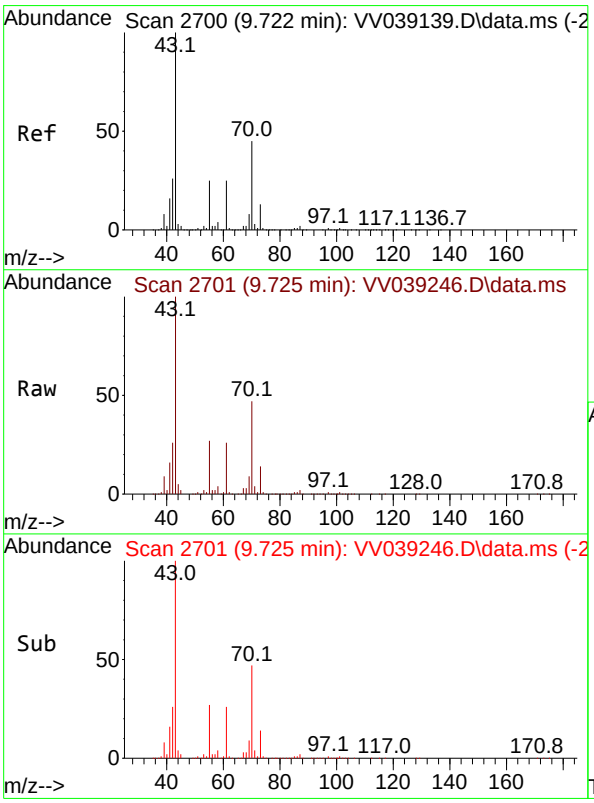
#73
Isopropylbenzene
Concen: 20.047 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:105 Resp: 699688

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.1

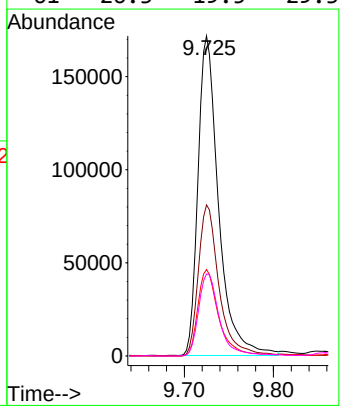


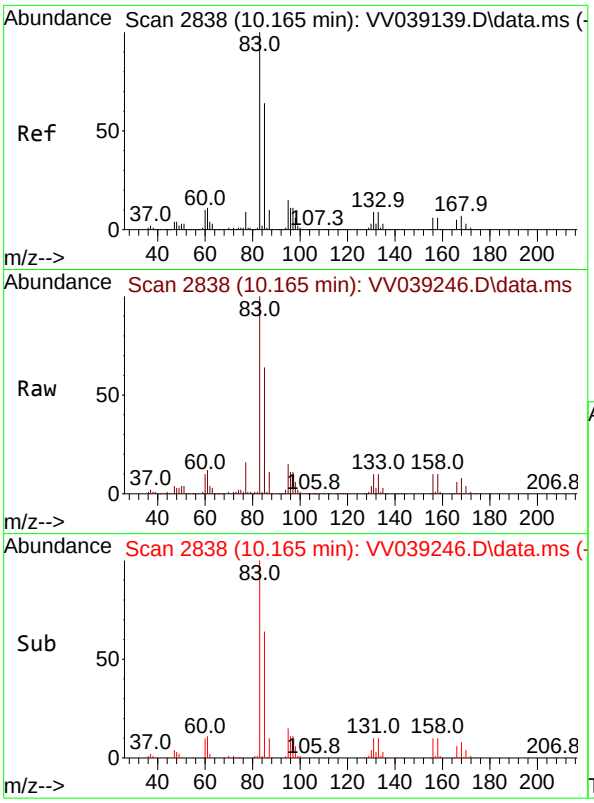


#74
N-amyl acetate
Concen: 19.756 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 43 Resp: 275038

Ion	Ratio	Lower	Upper
43	100		
70	47.7	35.4	53.0
55	27.7	20.6	30.8
61	26.3	19.5	29.3



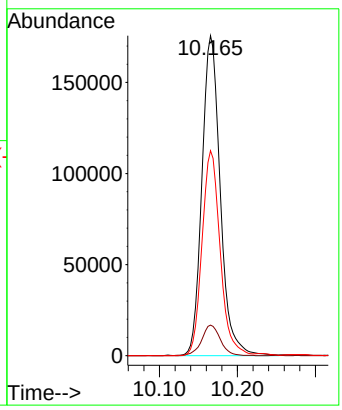


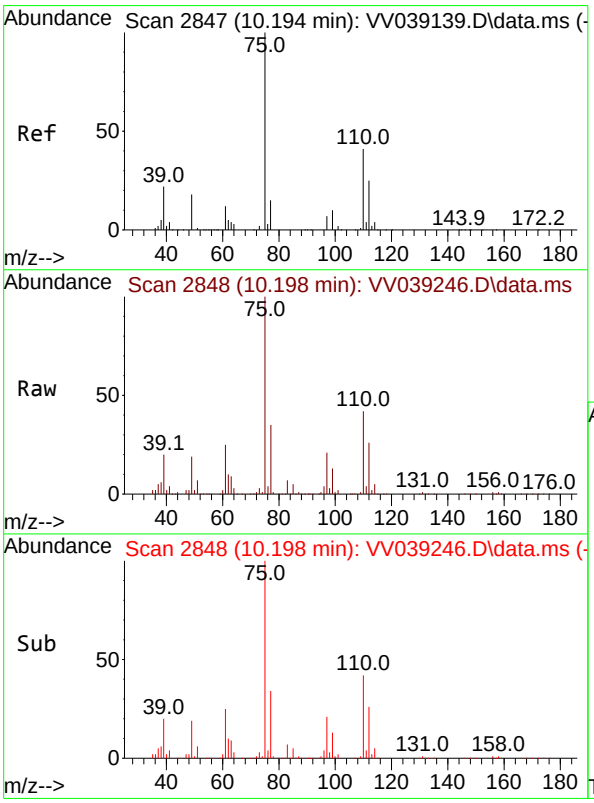
#75
1,1,2,2-Tetrachloroethane
Concen: 18.809 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 83 Resp: 287626

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.5	13.7
85	63.2	31.9	95.9

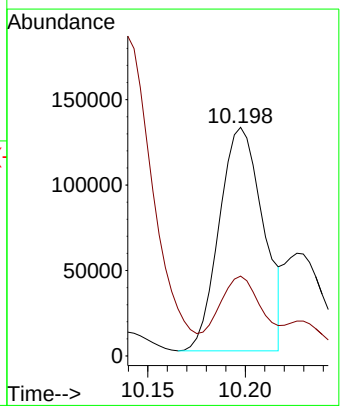


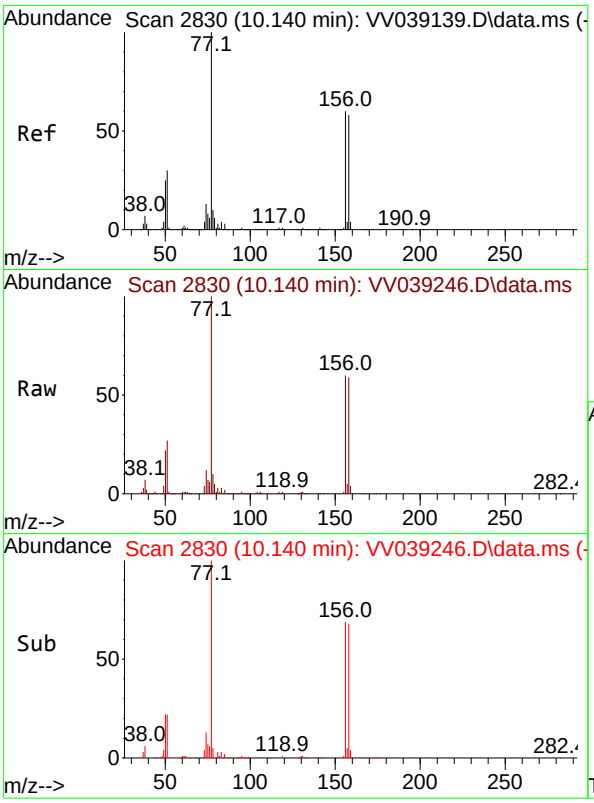


#76
1,2,3-Trichloropropane
Concen: 18.755 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 75 Resp: 205482

Ion	Ratio	Lower	Upper
75	100		
77	21.6	11.3	33.8



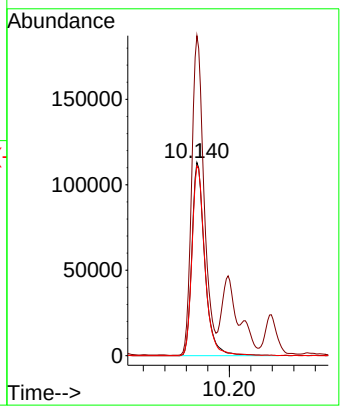


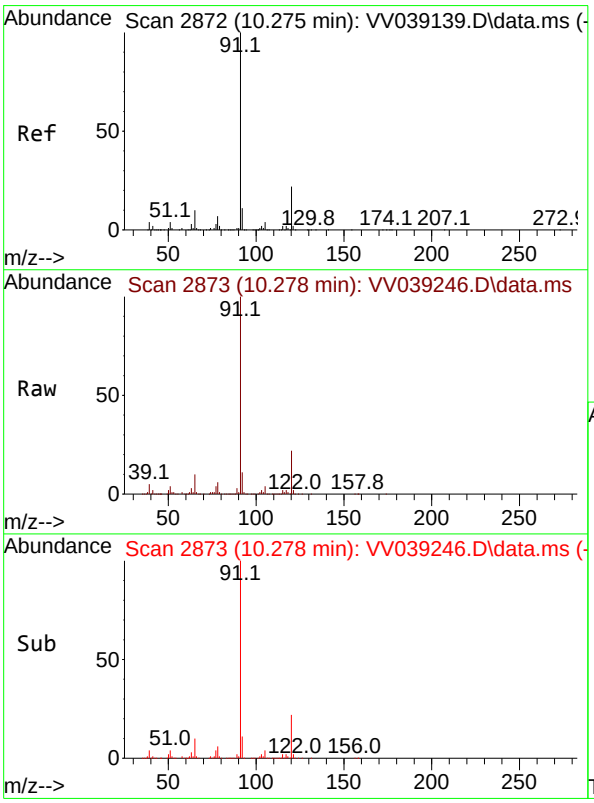
#77
Bromobenzene
Concen: 20.739 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:156 Resp: 187797

Ion	Ratio	Lower	Upper
156	100		
77	158.0	83.4	250.1
158	98.7	48.8	146.4

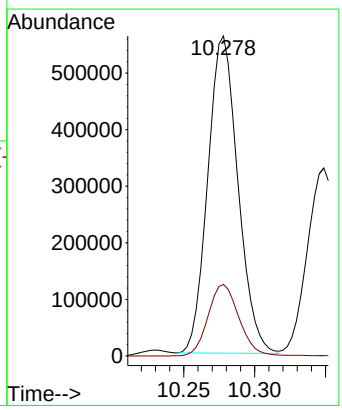


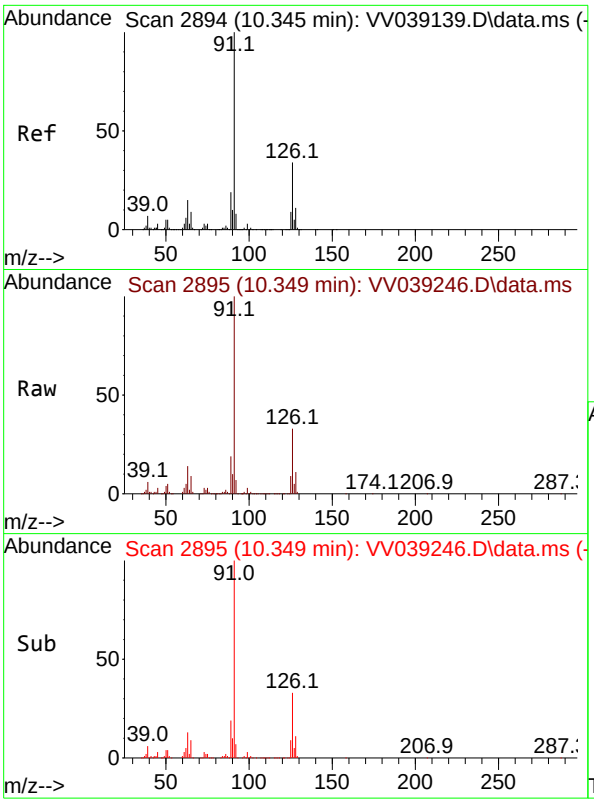


#78
n-propylbenzene
Concen: 19.554 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 91 Resp: 831093

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.1	33.3



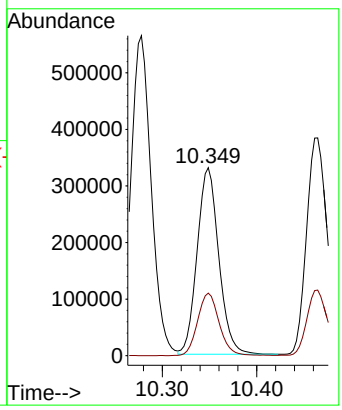


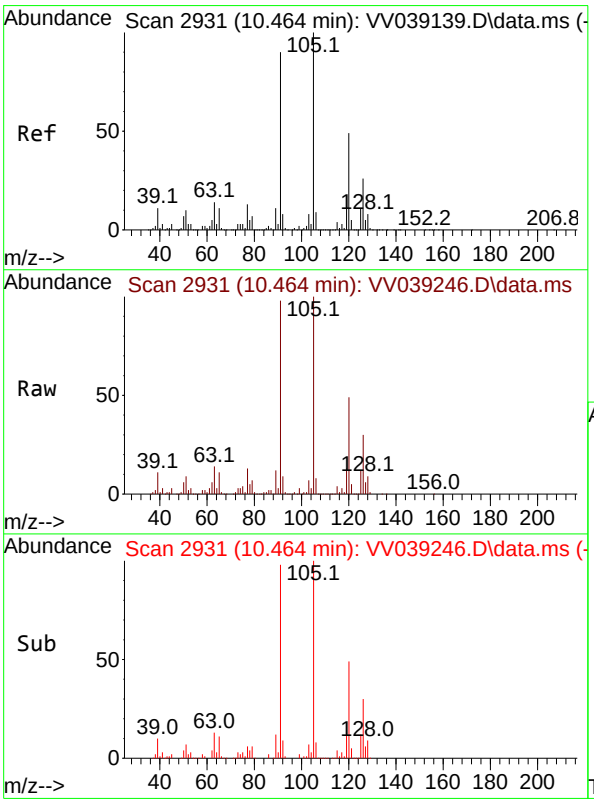
#79
2-Chlorotoluene
Concen: 20.594 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 91 Resp: 523752

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.7	50.0

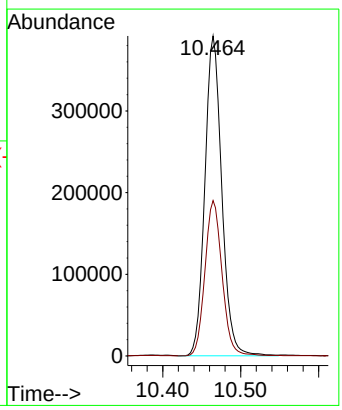


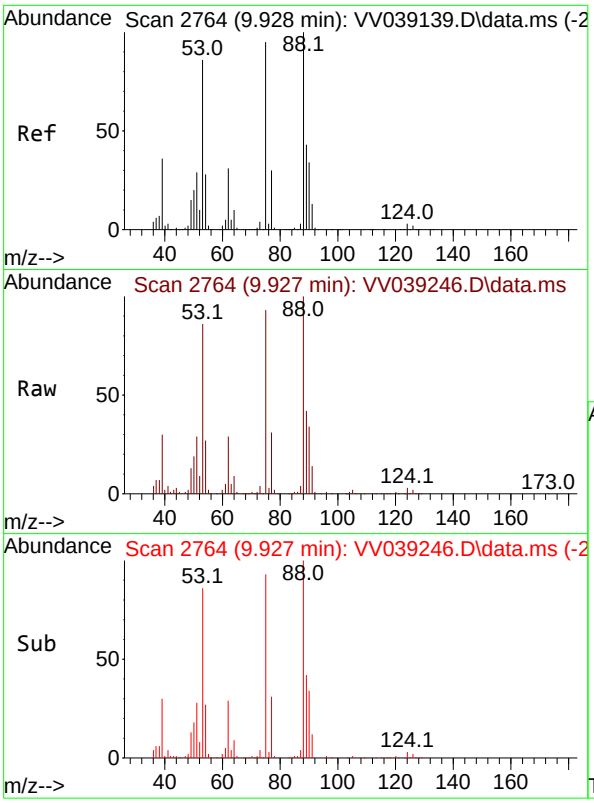


#80
1,3,5-Trimethylbenzene
Concen: 20.380 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:105 Resp: 591210

Ion	Ratio	Lower	Upper
105	100		
120	49.0	24.3	72.8



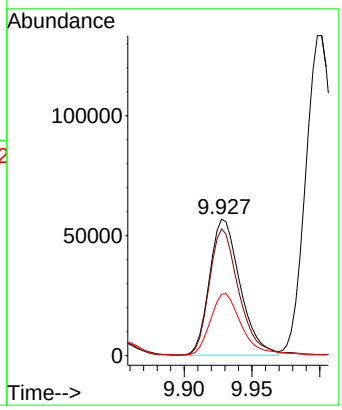


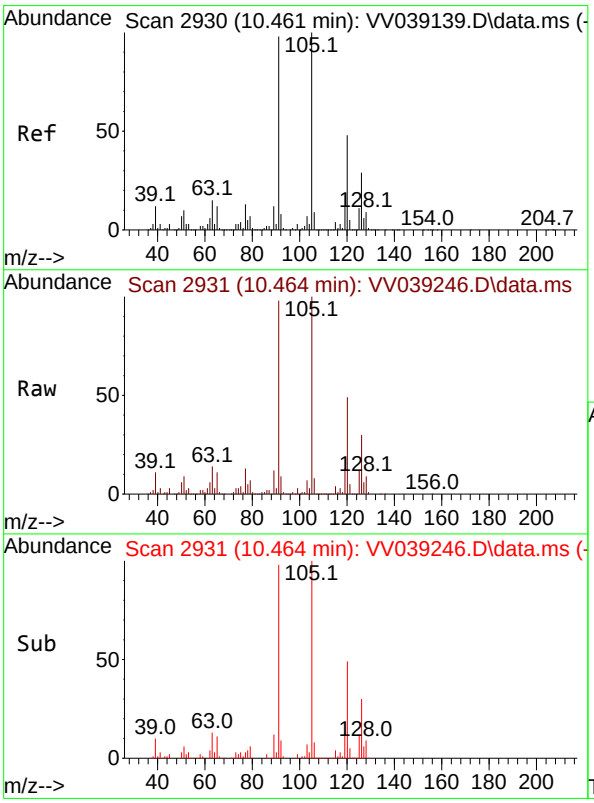
#81
trans-1,4-Dichloro-2-butene
Concen: 19.521 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 75 Resp: 89087

Ion	Ratio	Lower	Upper
75	100		
53	88.9	72.5	108.7
89	46.4	37.2	55.8

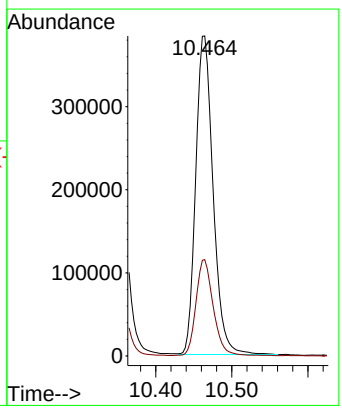


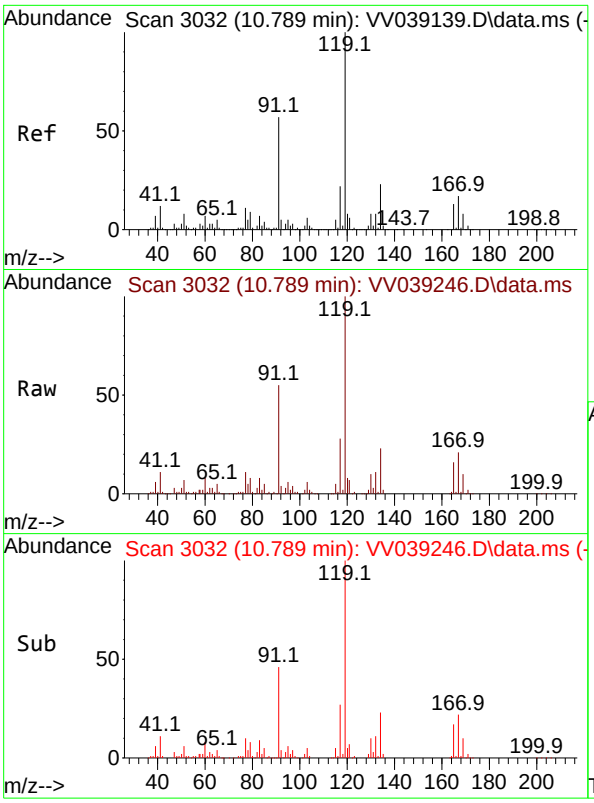


#82
4-Chlorotoluene
Concen: 20.650 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 91 Resp: 608970

Ion	Ratio	Lower	Upper
91	100		
126	29.6	14.5	43.6



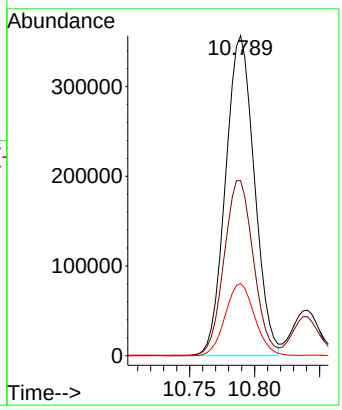


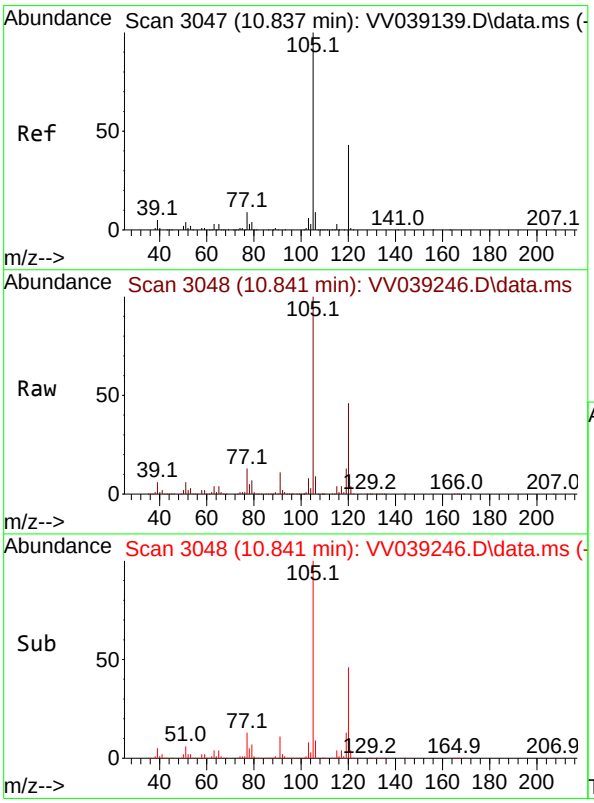
#83
tert-Butylbenzene
Concen: 19.043 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:119 Resp: 550870

Ion	Ratio	Lower	Upper
119	100		
91	55.6	28.5	85.6
134	23.0	11.5	34.4

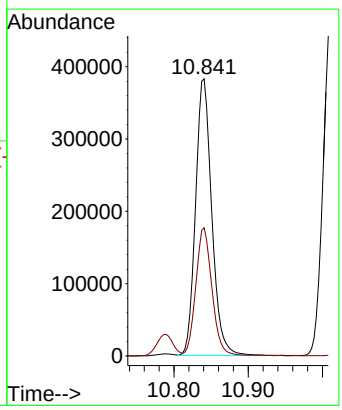


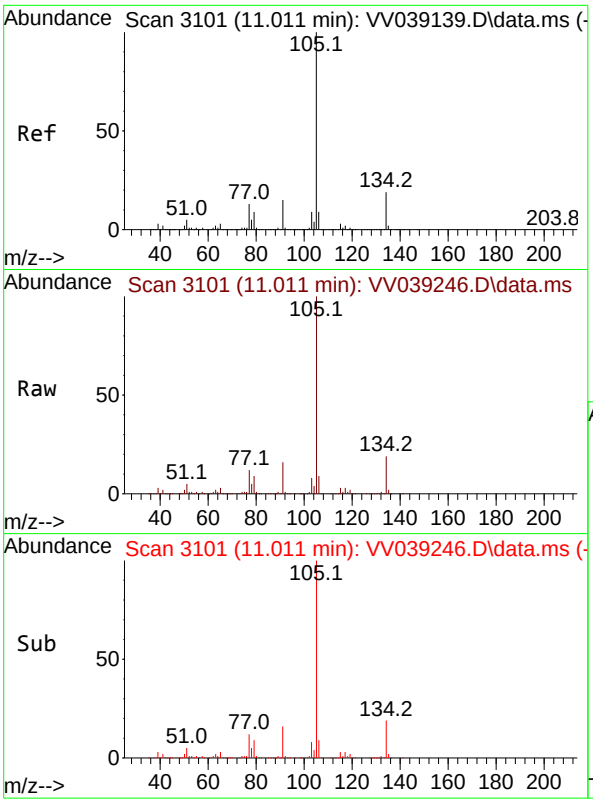


#84
1,2,4-Trimethylbenzene
Concen: 20.660 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:105 Resp: 581871

Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.4	67.2



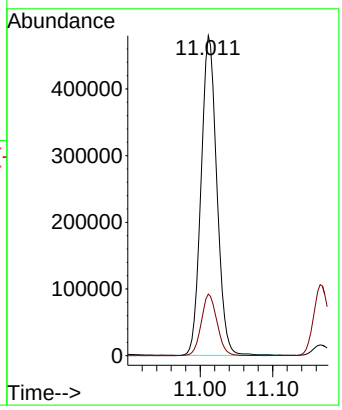


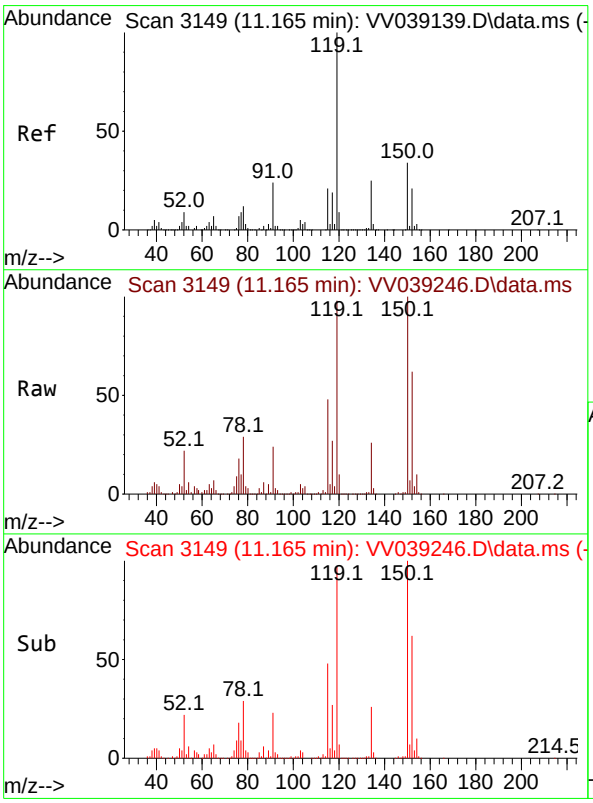
#85
sec-Butylbenzene
Concen: 18.837 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:105 Resp: 722734

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.6	28.8

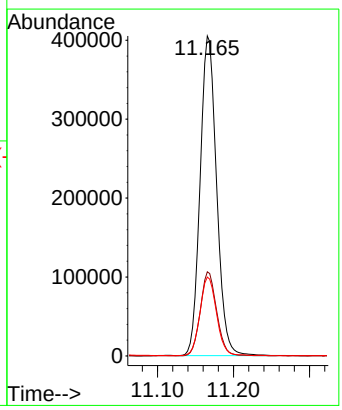


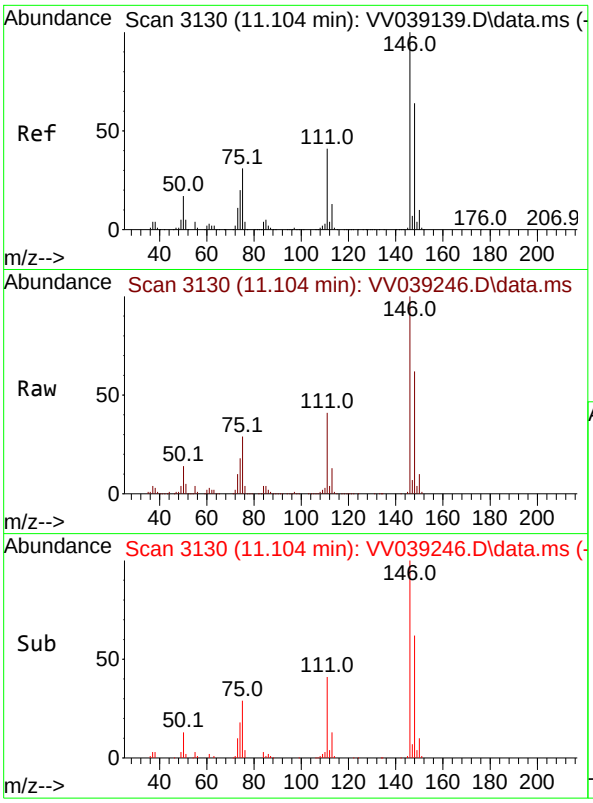


#86
p-Isopropyltoluene
Concen: 19.107 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:119 Resp: 610180

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.7	38.0
91	24.7	12.0	36.1



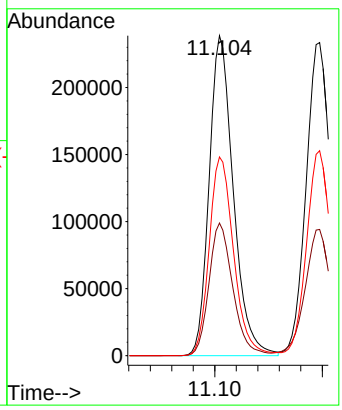


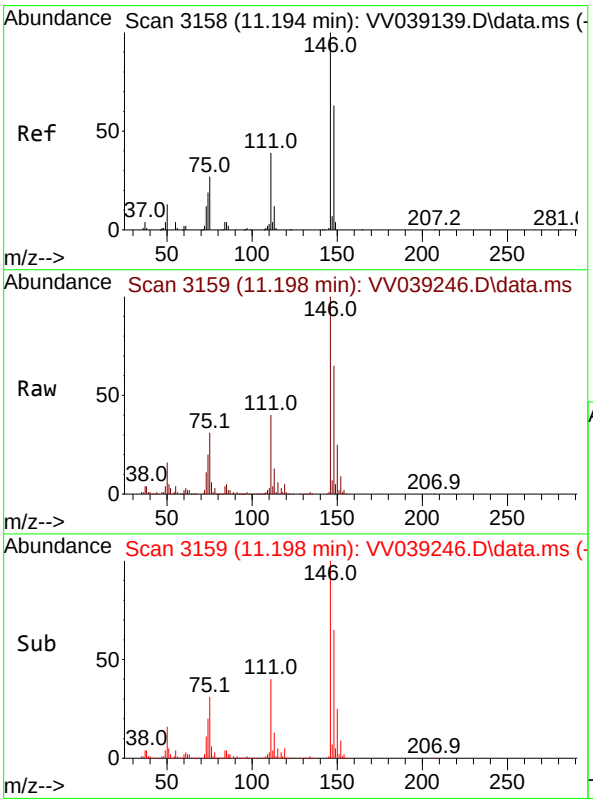
#87
1,3-Dichlorobenzene
Concen: 20.309 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:146 Resp: 372185

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.9	62.8
148	62.9	31.8	95.3

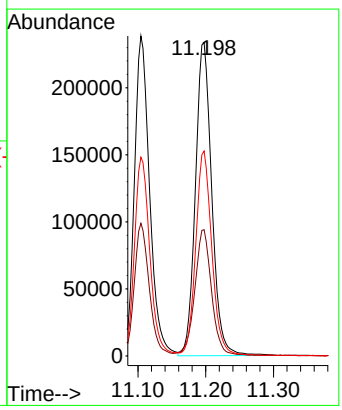


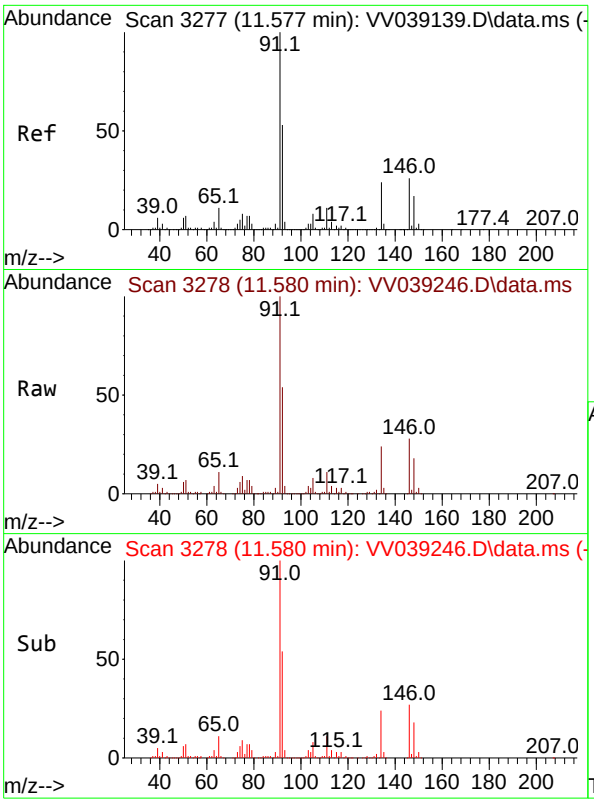


#88
1,4-Dichlorobenzene
Concen: 19.476 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:146 Resp: 391588

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.3	60.8
148	64.3	31.4	94.2



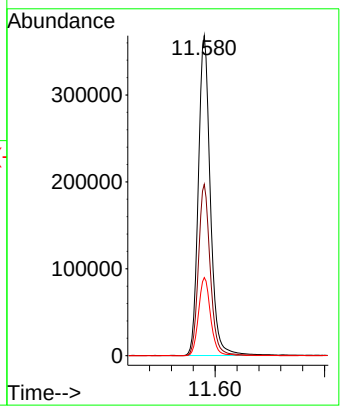


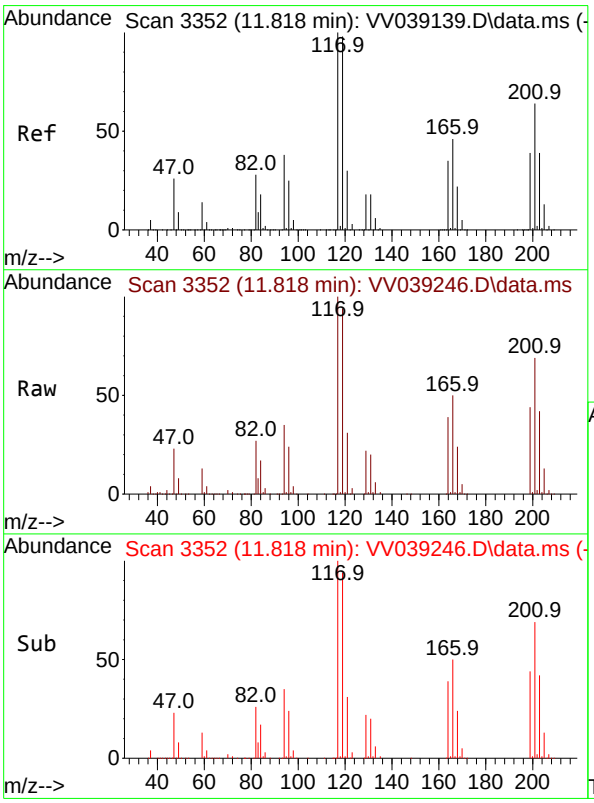
#89
n-Butylbenzene
Concen: 18.344 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion: 91 Resp: 559457

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.6	79.8
134	24.4	12.1	36.3

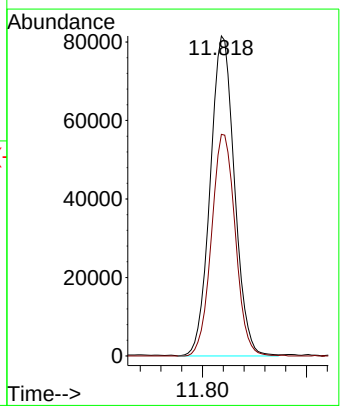


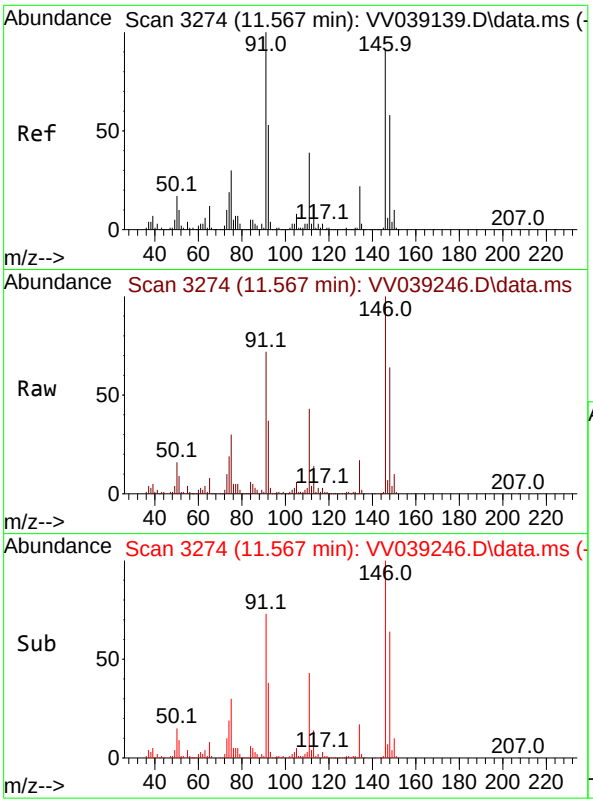


#90
Hexachloroethane
Concen: 16.851 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:117 Resp: 132512

Ion	Ratio	Lower	Upper
117	100		
201	67.7	32.3	96.8



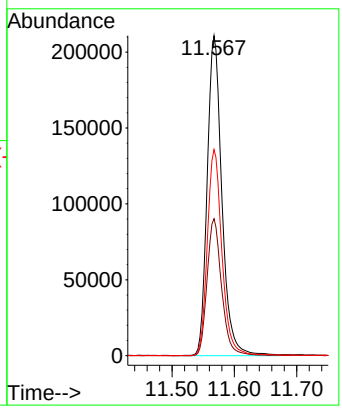


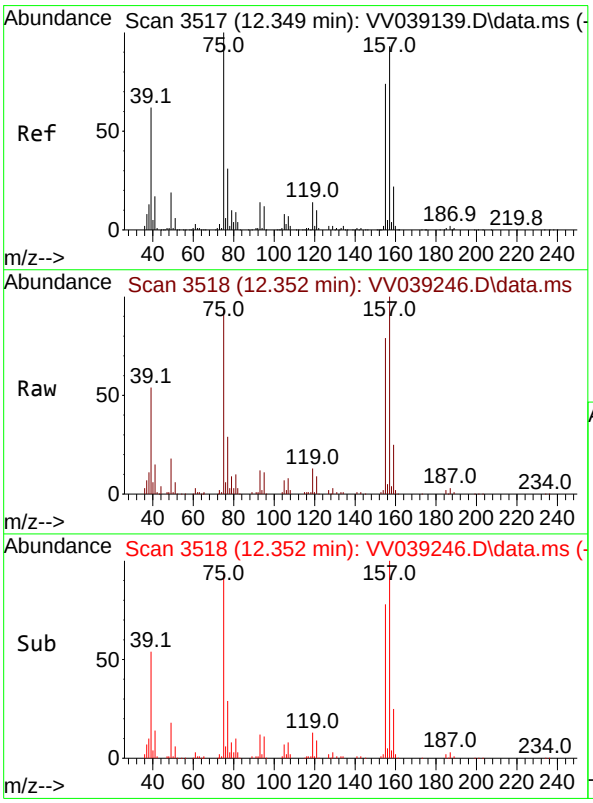
#91
1,2-Dichlorobenzene
Concen: 20.161 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:146 Resp: 345188

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	63.9	31.9	95.7

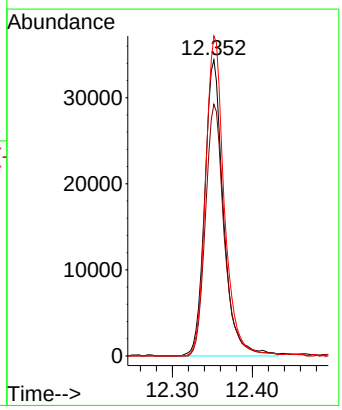


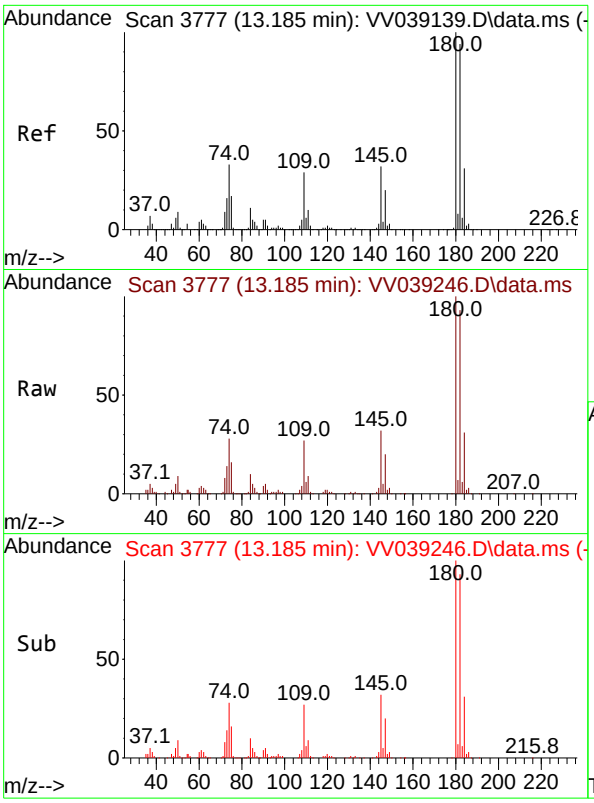


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.636 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion: 75 Resp: 56191

Ion	Ratio	Lower	Upper
75	100		
155	85.0	38.6	115.8
157	107.6	49.5	148.3



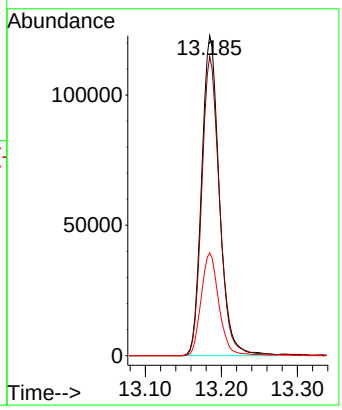


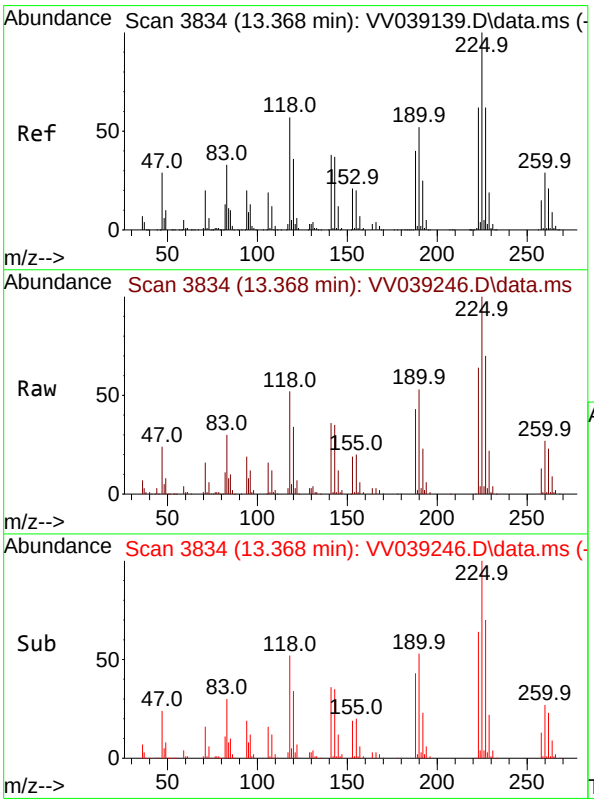
#93
1,2,4-Trichlorobenzene
Concen: 20.248 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:180 Resp: 198726

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.1	141.4
145	32.3	16.3	48.8

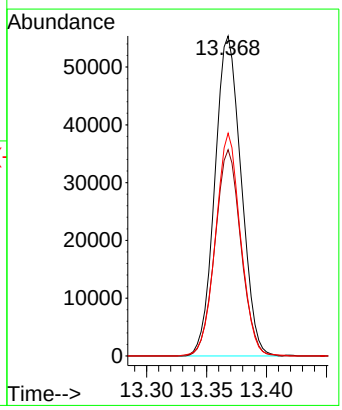


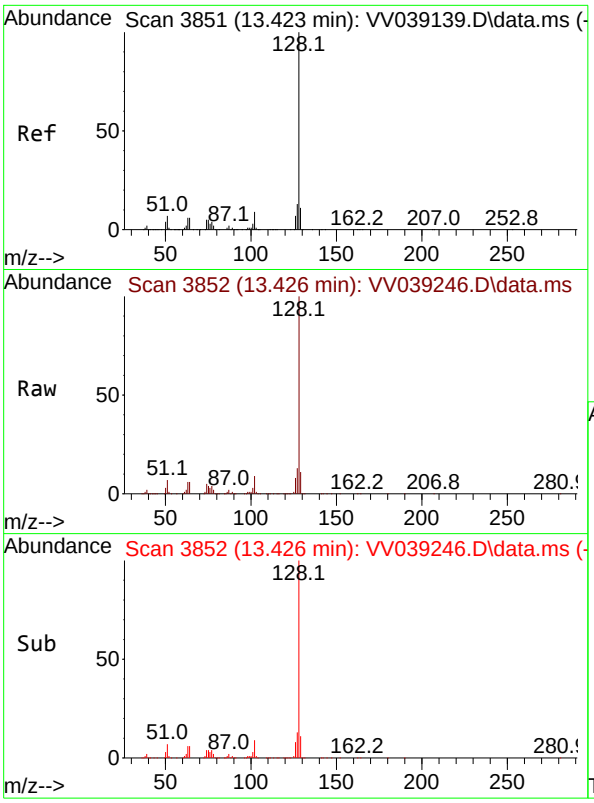


#94
Hexachlorobutadiene
Concen: 16.557 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:225 Resp: 84439

Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.6	94.7
227	66.1	31.8	95.4



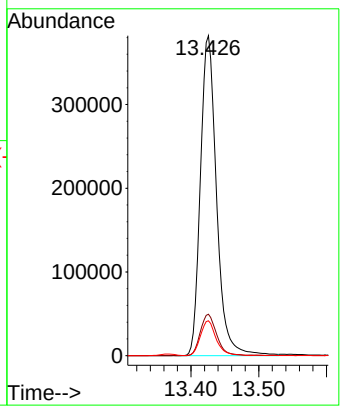


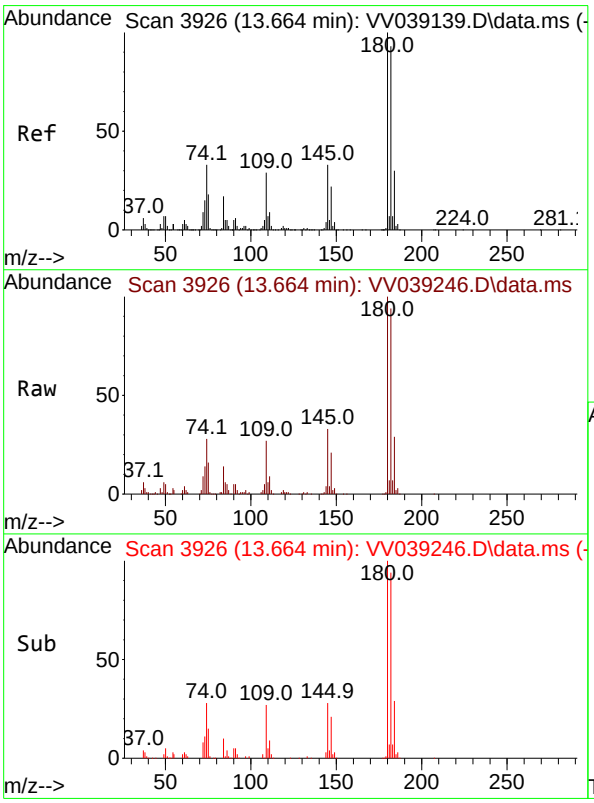
#95
Naphthalene
Concen: 19.941 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
VV1003WBSD01

Tgt Ion:128 Resp: 632578

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.6	8.6	13.0

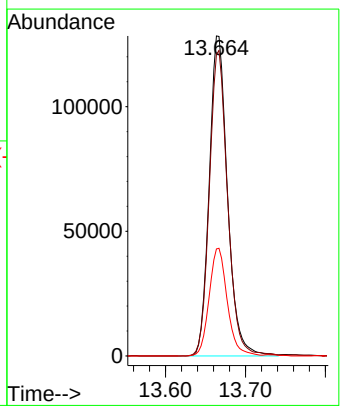




#96
1,2,3-Trichlorobenzene
Concen: 20.295 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. -0.000 min
Lab File: VV039246.D
Acq: 03 Oct 2025 13:29

Tgt Ion:180 Resp: 203723

Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.9	140.8
145	33.5	17.0	51.0



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Manual Integration Report

Sequence:	VV092225	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VV039142.D	1,2,3-Trichloropropane	MMDadoda	9/26/2025 1:38:50 AM	SAM	9/26/2025 1:57:11 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,1-Dichloropropene	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,4-Dichlorobenzene	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	1,4-Dioxane	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	2,2-Dichloropropane	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	2-Butanone	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Carbon Tetrachloride	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Ethyl Acetate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Ethyl methacrylate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Isopropyl Acetate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Methacrylonitrile	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Methyl methacrylate	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software
VSTDICC001	VV039143.D	Naphthalene	MMDadoda	9/26/2025 1:38:52 AM	SAM	9/26/2025 1:57:13 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VV092225	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VV039144.D	1,2,3-Trichloropropane	MMDadoda	9/26/2025 1:38:55 AM	SAM	9/26/2025 1:57:15 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VV100325	Instrument	MSVOA_v

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092225

Review By	Mahesh Dadoda	Review On	9/26/2025 1:39:32 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	9/26/2025 1:56:56 AM				
SubDirectory	VV092225	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135580
Initial Calibration Stds	VP135581,VP135582,VP135583,VP135584,VP135585,VP135586
CCC	
Internal Standard/PEM	VP133935
ICV/I.BLK	VP135587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039134.D	22 Sep 2025 10:15	SY/MD	Ok
2	VSTDICC001	VV039135.D	22 Sep 2025 10:59	SY/MD	Not Ok
3	VSTDICC005	VV039136.D	22 Sep 2025 11:30	SY/MD	Not Ok
4	VSTDICC010	VV039137.D	22 Sep 2025 12:26	SY/MD	Ok
5	VSTDICC020	VV039138.D	22 Sep 2025 12:48	SY/MD	Ok
6	VSTDICCC050	VV039139.D	22 Sep 2025 13:26	SY/MD	Ok
7	VSTDICC100	VV039140.D	22 Sep 2025 13:49	SY/MD	Ok
8	VIBLK	VV039141.D	22 Sep 2025 14:21	SY/MD	Ok
9	VSTDICC005	VV039142.D	22 Sep 2025 15:37	SY/MD	Ok,M
10	VSTDICC001	VV039143.D	22 Sep 2025 16:35	SY/MD	Ok,M
11	VSTDICV050	VV039144.D	22 Sep 2025 16:58	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV100325

Review By	Mahesh Dadoda	Review On	10/6/2025 4:25:08 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM				
SubDirectory	VV100325	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135740
Initial Calibration Stds	
CCC	VP135741,VP135742
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VV039241.D	03 Oct 2025 08:26	SY/MD	Ok
2	VSTDCCC050	VV039242.D	03 Oct 2025 08:53	SY/MD	Ok
3	VV1003MBL01	VV039243.D	03 Oct 2025 11:04	SY/MD	Ok
4	VV1003WBL01	VV039244.D	03 Oct 2025 11:26	SY/MD	Ok
5	VV1003WBS01	VV039245.D	03 Oct 2025 13:07	SY/MD	Ok
6	VV1003WBSD01	VV039246.D	03 Oct 2025 13:29	SY/MD	Ok
7	Q3263-01	VV039247.D	03 Oct 2025 14:19	SY/MD	ReRun
8	Q3263-02	VV039248.D	03 Oct 2025 14:42	SY/MD	ReRun
9	Q3201-07	VV039249.D	03 Oct 2025 15:04	SY/MD	Ok
10	Q3201-08	VV039250.D	03 Oct 2025 15:27	SY/MD	Ok
11	Q3254-09	VV039251.D	03 Oct 2025 15:49	SY/MD	Ok
12	Q3254-01	VV039252.D	03 Oct 2025 16:11	SY/MD	Ok
13	Q3254-03	VV039253.D	03 Oct 2025 16:34	SY/MD	Ok
14	Q3254-05	VV039254.D	03 Oct 2025 16:56	SY/MD	Ok
15	Q3254-07	VV039255.D	03 Oct 2025 17:19	SY/MD	Ok
16	Q3201-01	VV039256.D	03 Oct 2025 17:41	SY/MD	Dilution
17	Q3201-02	VV039257.D	03 Oct 2025 18:04	SY/MD	Dilution
18	Q3201-03	VV039258.D	03 Oct 2025 18:26	SY/MD	ReRun
19	Q3201-04	VV039259.D	03 Oct 2025 18:49	SY/MD	Not Ok
20	Q3201-05	VV039260.D	03 Oct 2025 19:11	SY/MD	ReRun
21	Q3201-06	VV039261.D	03 Oct 2025 19:34	SY/MD	Not Ok

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Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV100325

Review By	Mahesh Dadoda	Review On	10/6/2025 4:25:08 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM				
SubDirectory	VV100325	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135740
Initial Calibration Stds	
CCC	VP135741,VP135742
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VIBLK	VV039262.D	03 Oct 2025 19:56	SY/MD	Ok
23	VSTDCCC050	VV039263.D	03 Oct 2025 20:19	SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV092225

Review By	Mahesh Dadoda	Review On	9/26/2025 1:39:32 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	9/26/2025 1:56:56 AM		
SubDirectory	VV092225	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135580
Initial Calibration Stds	VP135581,VP135582,VP135583,VP135584,VP135585,VP135586
CCC	
Internal Standard/PEM	VP133935
ICV/I.BLK	VP135587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039134.D	22 Sep 2025 10:15		SY/MD	Ok
2	VSTDICC001	VSTDICC001	VV039135.D	22 Sep 2025 10:59	Not use	SY/MD	Not Ok
3	VSTDICC005	VSTDICC005	VV039136.D	22 Sep 2025 11:30	Not use	SY/MD	Not Ok
4	VSTDICC010	VSTDICC010	VV039137.D	22 Sep 2025 12:26		SY/MD	Ok
5	VSTDICC020	VSTDICC020	VV039138.D	22 Sep 2025 12:48	QR- 06,16,20,70,92	SY/MD	Ok
6	VSTDICCC050	VSTDICCC050	VV039139.D	22 Sep 2025 13:26	LR- 41,58,59	SY/MD	Ok
7	VSTDICC100	VSTDICC100	VV039140.D	22 Sep 2025 13:49		SY/MD	Ok
8	VIBLK	VIBLK	VV039141.D	22 Sep 2025 14:21		SY/MD	Ok
9	VSTDICC005	VSTDICC005	VV039142.D	22 Sep 2025 15:37		SY/MD	Ok,M
10	VSTDICC001	VSTDICC001	VV039143.D	22 Sep 2025 16:35		SY/MD	Ok,M
11	VSTDICV050	ICVVV092225	VV039144.D	22 Sep 2025 16:58	Goof for Non-DOD	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV100325

Review By	Mahesh Dadoda	Review On	10/6/2025 4:25:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM		
SubDirectory	VV100325	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135740
Initial Calibration Stds	
CCC	VP135741,VP135742
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VV039241.D	03 Oct 2025 08:26		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VV039242.D	03 Oct 2025 08:53	CCC failed High For Com.#51,68,69	SY/MD	Ok
3	VV1003MBL01	VV1003MBL01	VV039243.D	03 Oct 2025 11:04		SY/MD	Ok
4	VV1003WBL01	VV1003WBL01	VV039244.D	03 Oct 2025 11:26		SY/MD	Ok
5	VV1003WBS01	VV1003WBS01	VV039245.D	03 Oct 2025 13:07		SY/MD	Ok
6	VV1003WBSD01	VV1003WBSD01	VV039246.D	03 Oct 2025 13:29		SY/MD	Ok
7	Q3263-01	251818	VV039247.D	03 Oct 2025 14:19	Surrogate fail	SY/MD	ReRun
8	Q3263-02	266380	VV039248.D	03 Oct 2025 14:42	Surrogate fail	SY/MD	ReRun
9	Q3201-07	FIELD-BLANK	VV039249.D	03 Oct 2025 15:04	FB	SY/MD	Ok
10	Q3201-08	TRIP-BLANK	VV039250.D	03 Oct 2025 15:27	TB	SY/MD	Ok
11	Q3254-09	TRIP-BLANK	VV039251.D	03 Oct 2025 15:49	TB	SY/MD	Ok
12	Q3254-01	MW-1	VV039252.D	03 Oct 2025 16:11		SY/MD	Ok
13	Q3254-03	MW-2	VV039253.D	03 Oct 2025 16:34		SY/MD	Ok
14	Q3254-05	MW-3	VV039254.D	03 Oct 2025 16:56		SY/MD	Ok
15	Q3254-07	MW-4	VV039255.D	03 Oct 2025 17:19		SY/MD	Ok
16	Q3201-01	MW6	VV039256.D	03 Oct 2025 17:41	Need 100X	SY/MD	Dilution
17	Q3201-02	MW14	VV039257.D	03 Oct 2025 18:04	Need 100X	SY/MD	Dilution

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Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QCBatch ID # VV100325

Review By	Mahesh Dadoda	Review On	10/6/2025 4:25:08 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/6/2025 4:29:07 AM		
SubDirectory	VV100325	HP Acquire Method	MSVOA_V	HP Processing Method	82v092225w.m

STD. NAME	STD REF.#
Tune/Reschk	VP135740
Initial Calibration Stds	
CCC	VP135741,VP135742
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q3201-03	MW15	VV039258.D	03 Oct 2025 18:26	E flag of previous sample	SY/MD	ReRun
19	Q3201-04	MW10	VV039259.D	03 Oct 2025 18:49	Need Straight Run	SY/MD	Not Ok
20	Q3201-05	MW1	VV039260.D	03 Oct 2025 19:11	CCC Failed High;Need 40X	SY/MD	ReRun
21	Q3201-06	MW3	VV039261.D	03 Oct 2025 19:34	E flag of previous sample; Run @ lower dilution; CCC Failed High	SY/MD	Not Ok
22	VIBLK	VIBLK	VV039262.D	03 Oct 2025 19:56		SY/MD	Ok
23	VSTDCCC050	VSTDCCC050EC	VV039263.D	03 Oct 2025 20:19		SY/MD	Ok

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q3254

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VV100325,

Standard ID :
VP133935,VP133953,VP134142,VP134149,VP134933,VP135480,VP135552,VP135740,VP135741,VP135742,

Chemical ID :
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14921,V14928,V14929,V14951,V14952,V15066,V15067,V15068,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/19/2025

FROM 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135740	10/03/2025	10/04/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 10/06/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135741	10/03/2025	10/04/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 10/06/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135742	10/03/2025	10/04/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 10/06/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

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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.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

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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.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

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
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For Laboratory,Research,or Manufacturing Use
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Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty
		5E-05	Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

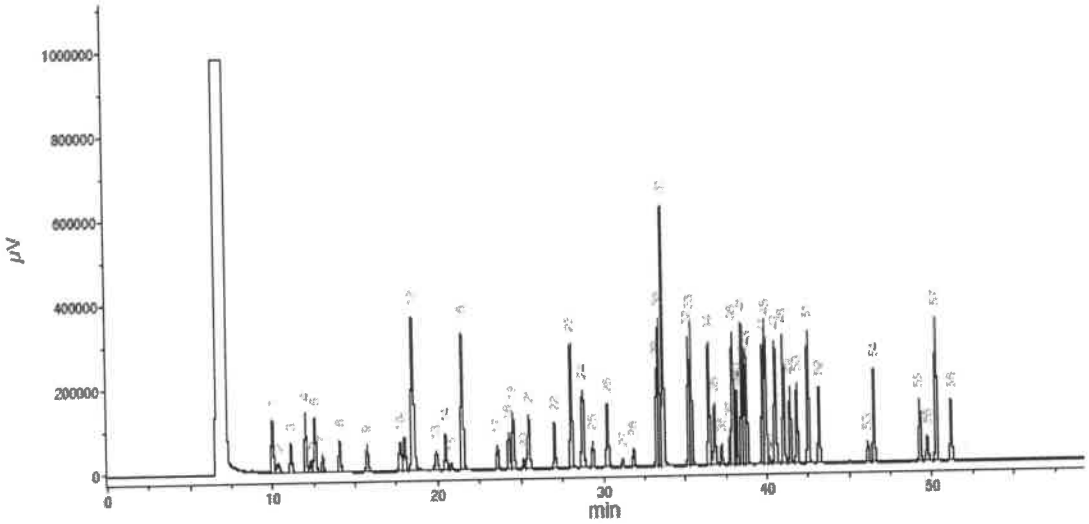
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 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	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	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
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	50.46
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty (5E-05 Balance Uncertainty)

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

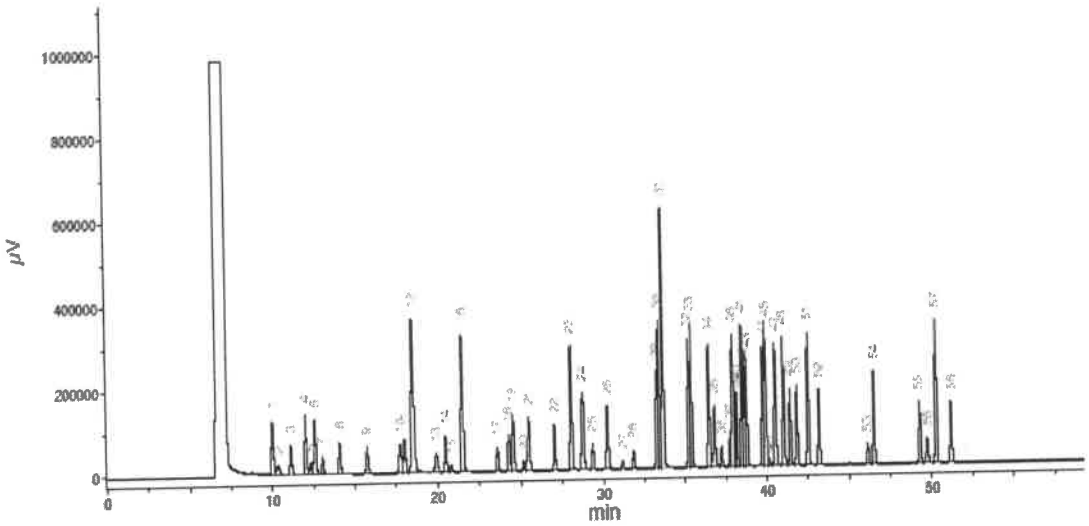
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 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	6.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 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

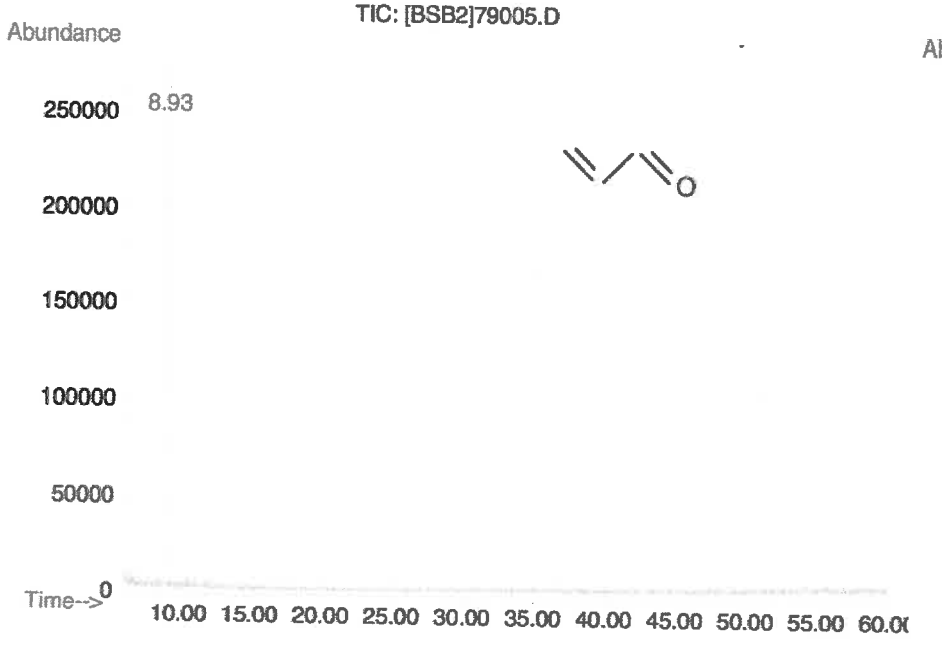
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

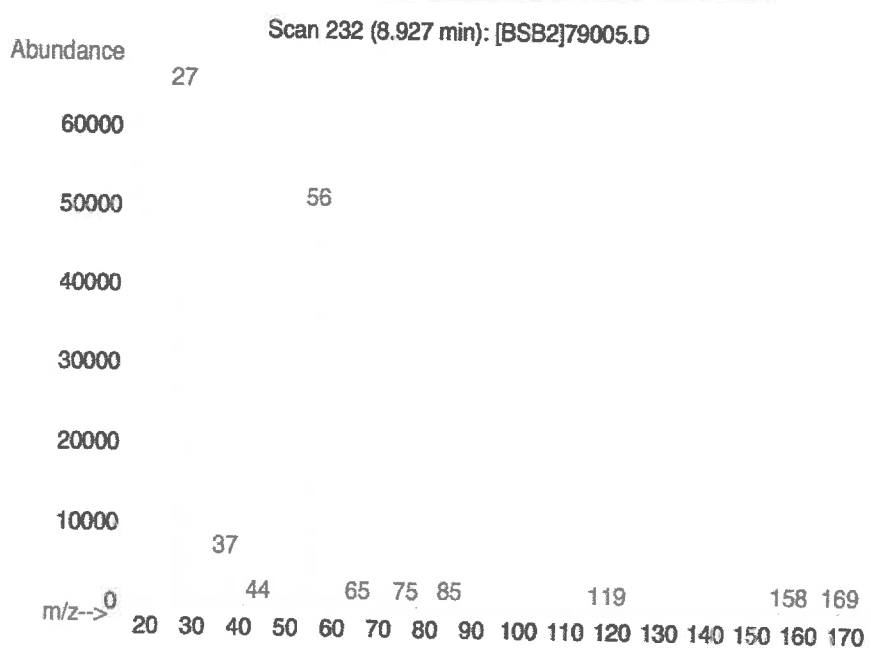
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

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.





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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0

Solvent(s): **Lot#**
Water 072324Q

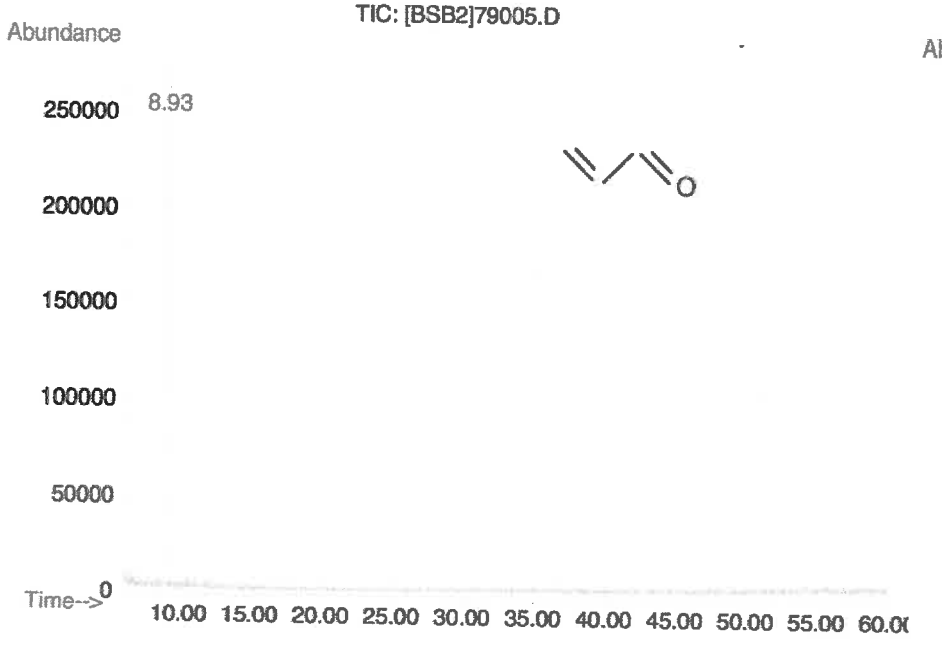
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

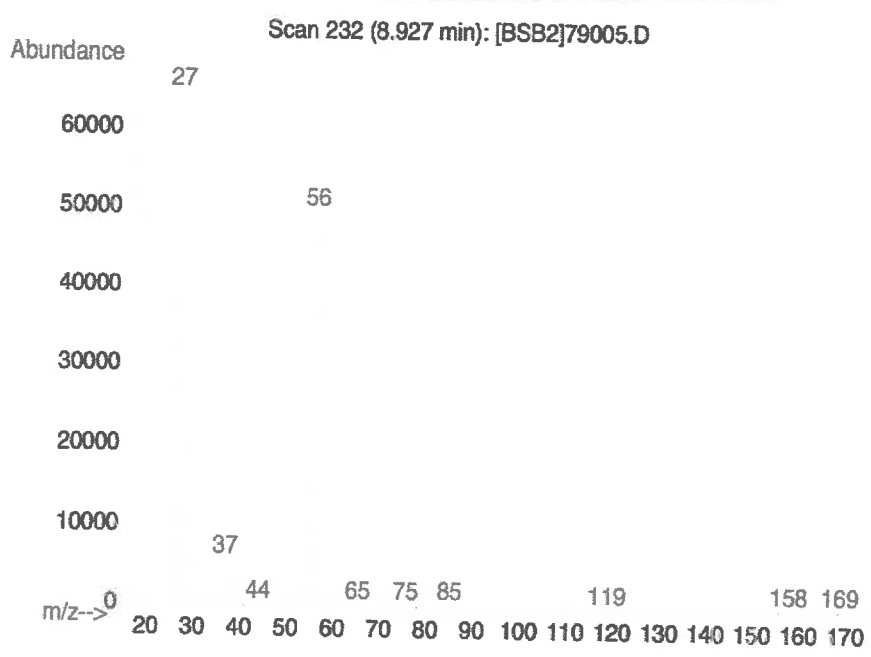
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

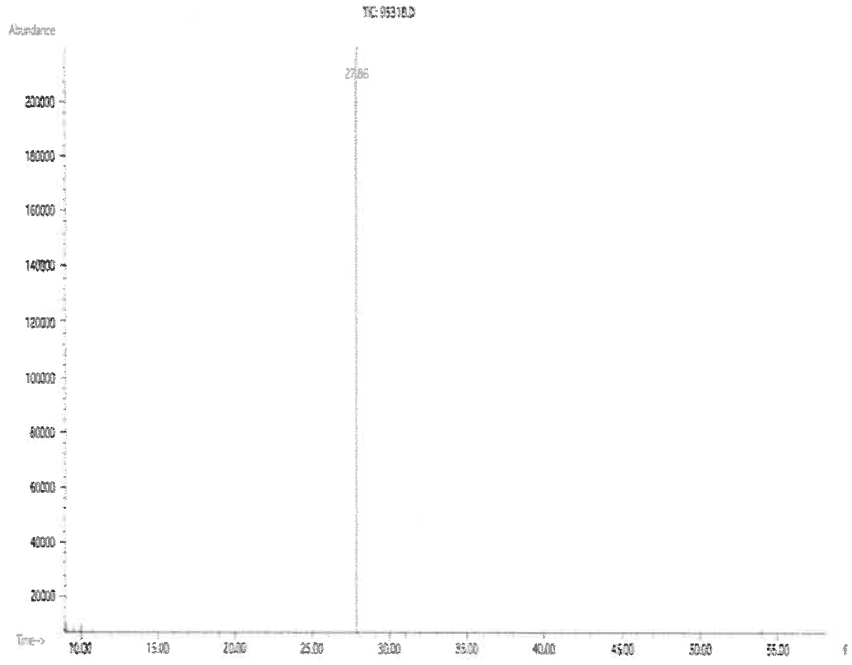
Solvent(s): Methanol **Lot#** EJ143-US

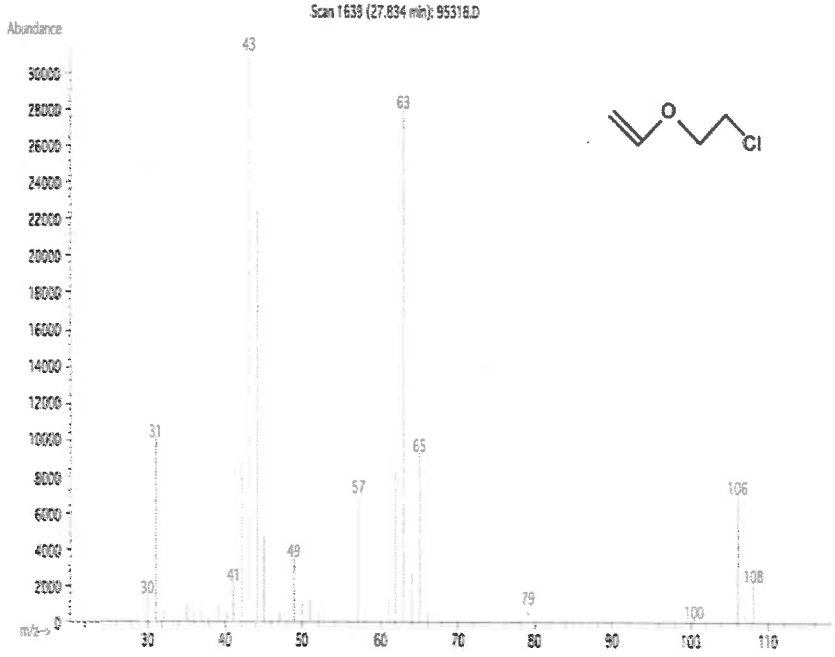
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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20 vial

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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

V14630 to V14649

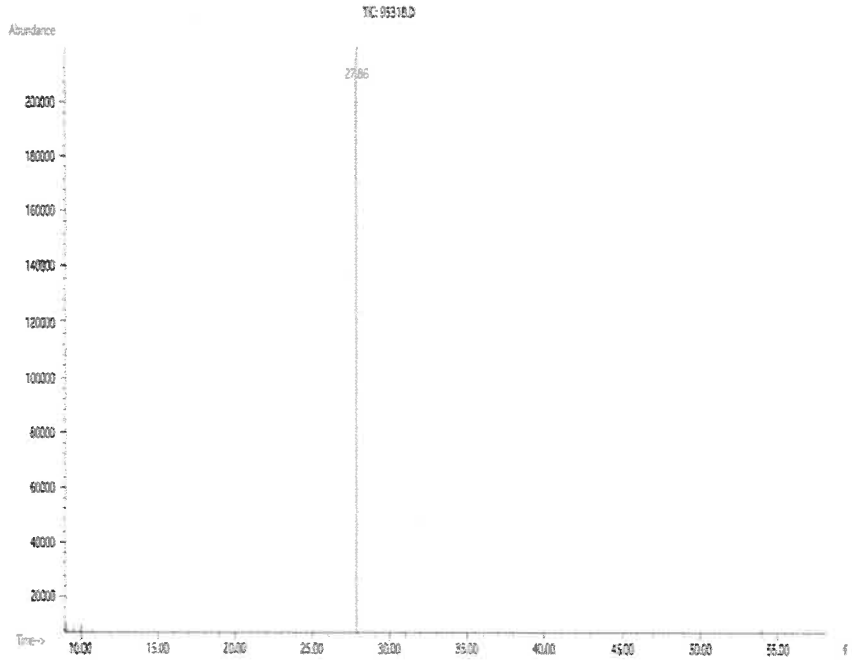
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

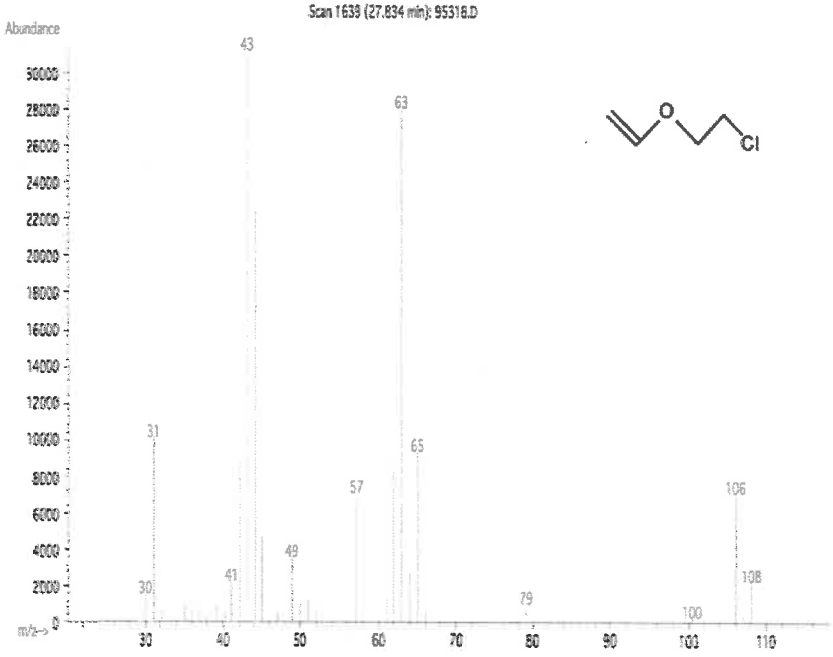
Weight(s) shown below were combined and diluted to (mL): 50.0

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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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.
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If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

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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

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Toxic if swallowed.

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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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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
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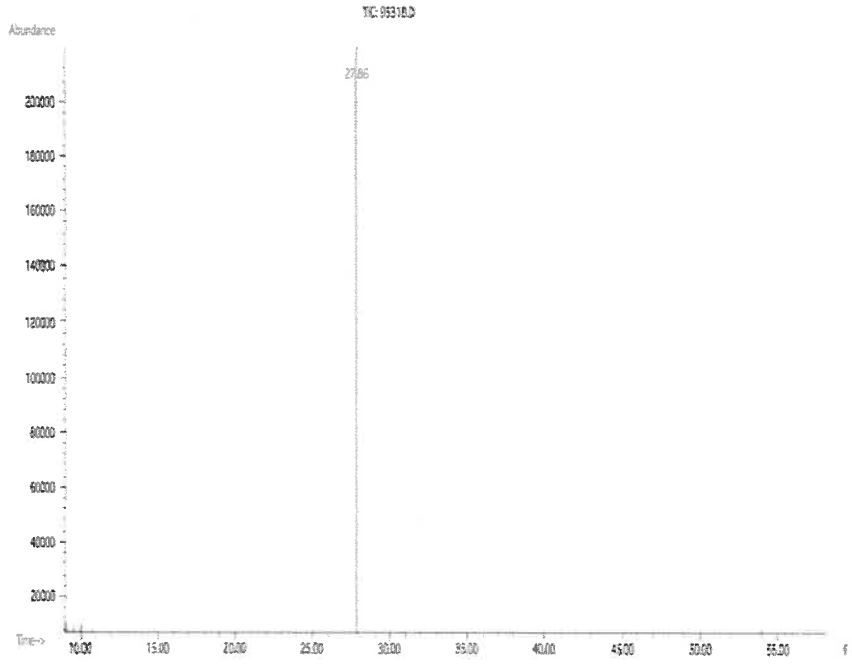
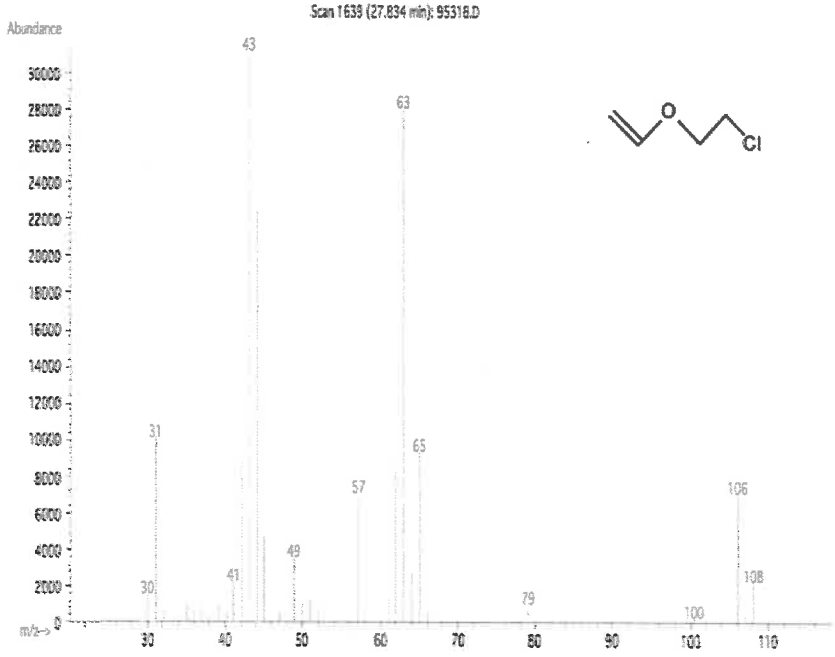
Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- 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

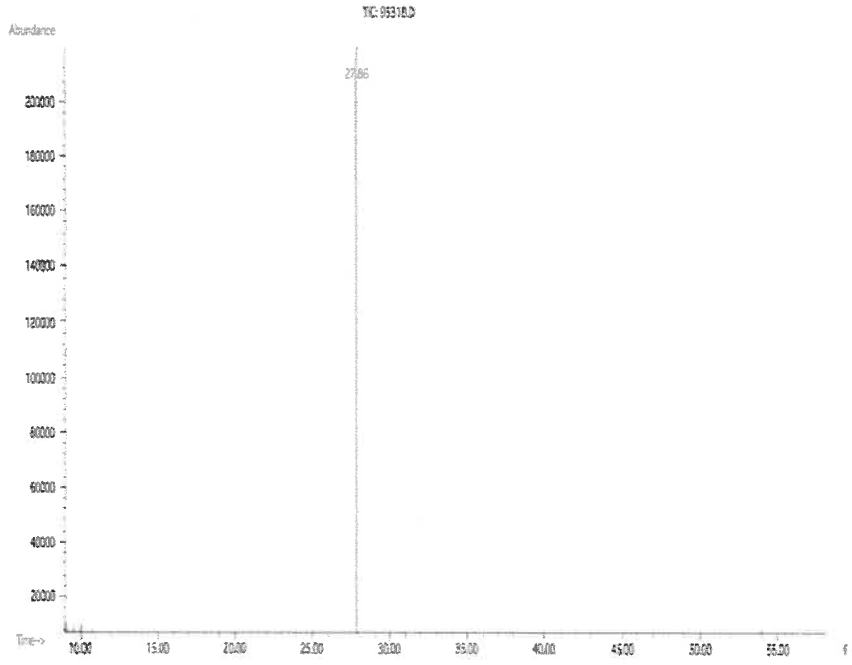
Solvent(s): Methanol **Lot#** EJ143-US

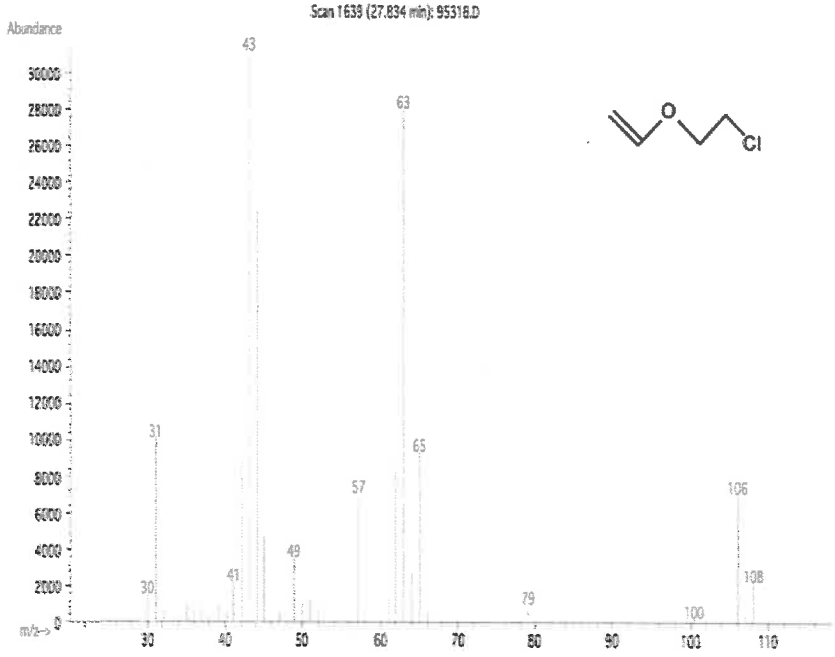
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- 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).

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Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

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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**
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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.
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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.
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Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
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Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

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Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

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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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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

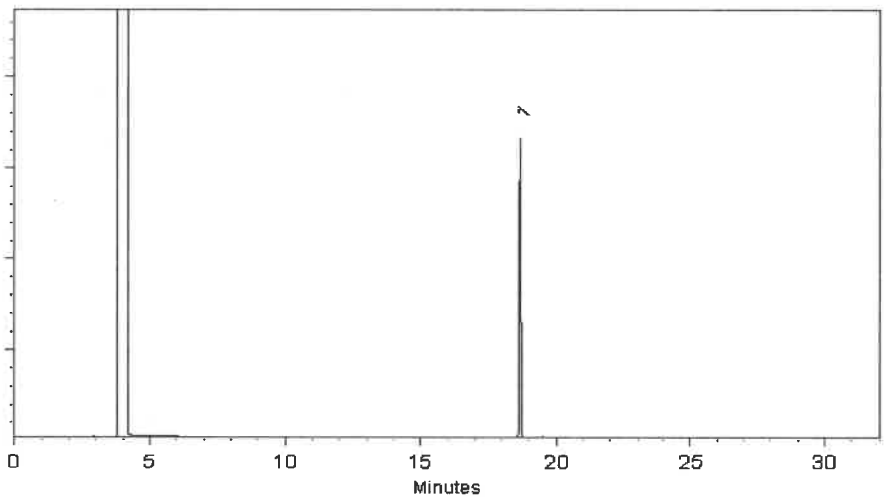
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
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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. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

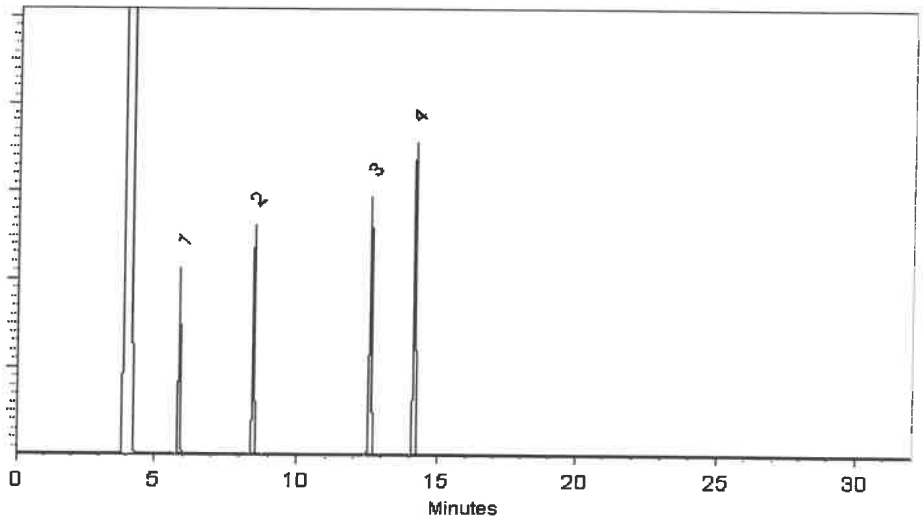
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

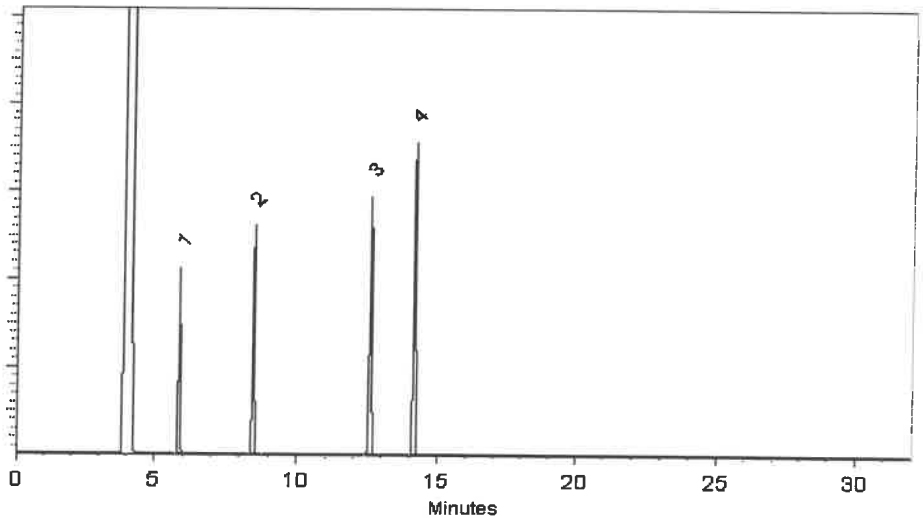
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

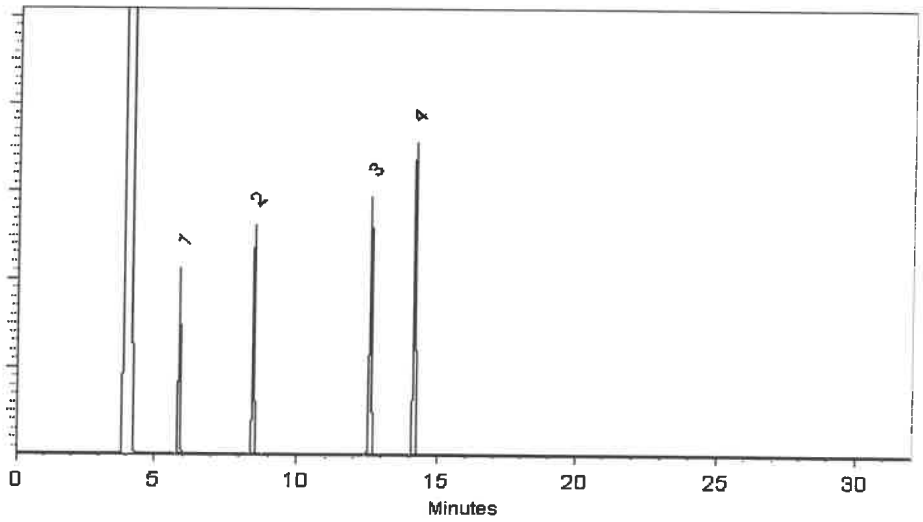
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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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

Rec: 12/09/24

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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. : 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.)

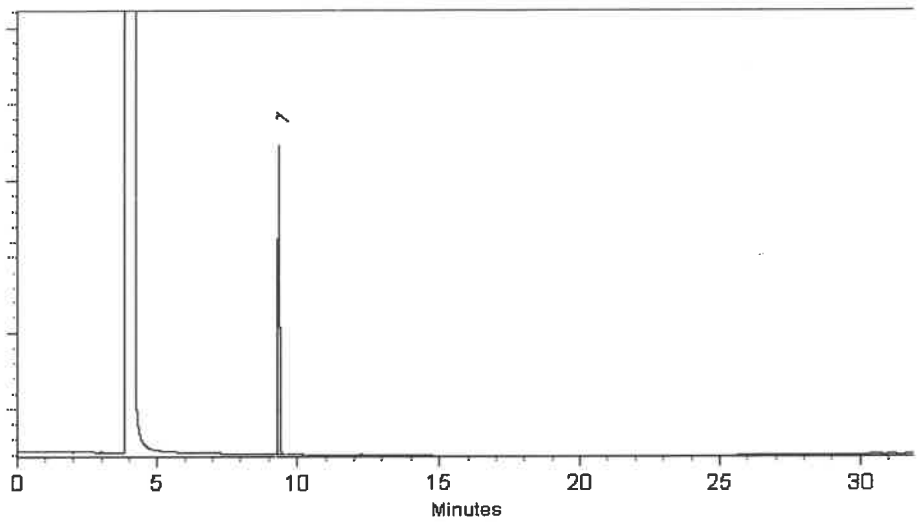
Inj. Temp:
200°C

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:

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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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CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

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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. : 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.)

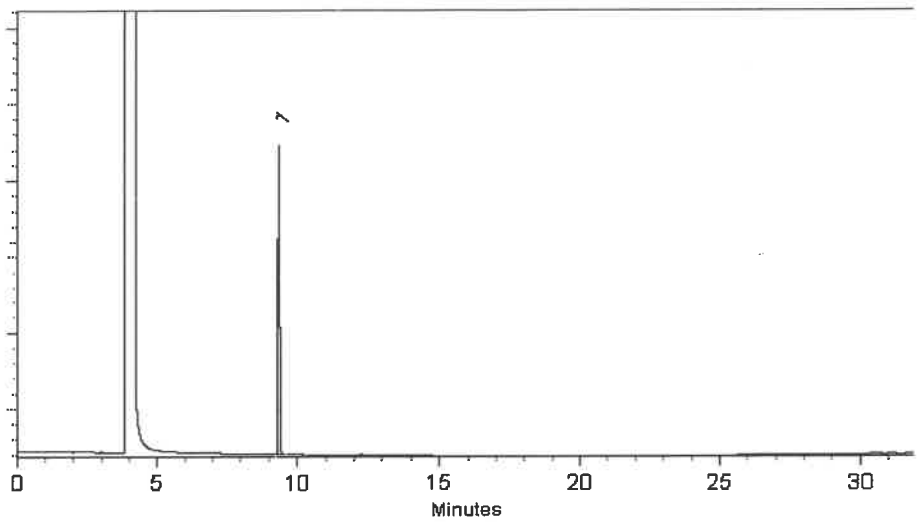
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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:

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- Purity values are rounded to the nearest whole number.

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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Rec: 12/09/24

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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.)

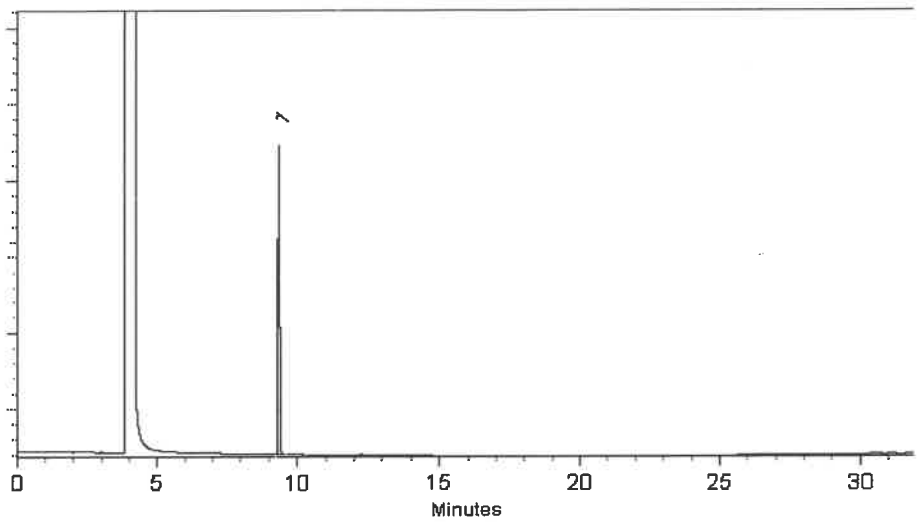
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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:

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Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Dec: 12/09/24

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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.)

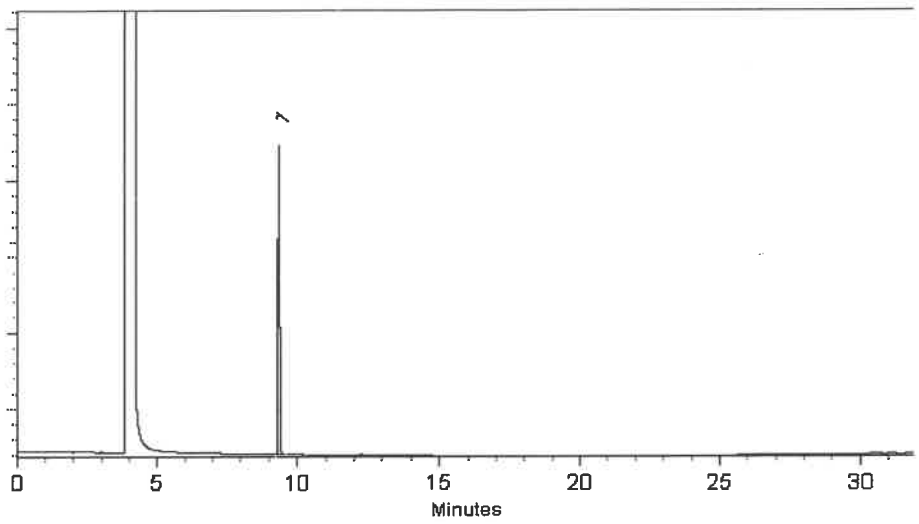
Inj. Temp:
200°C

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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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

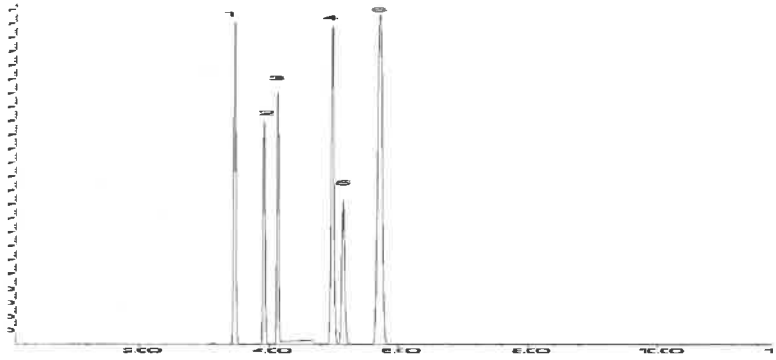
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

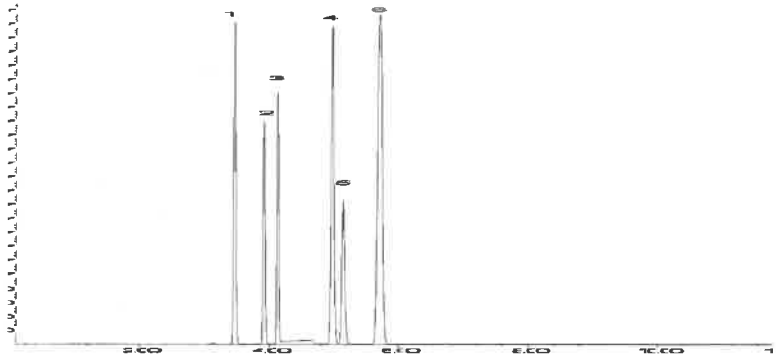
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

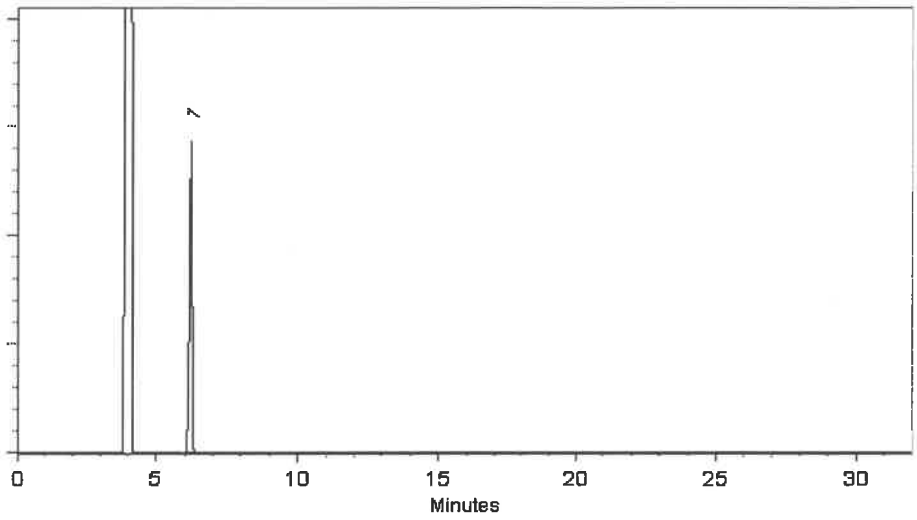
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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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Zo Vinyl Rec 01/08/25

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Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

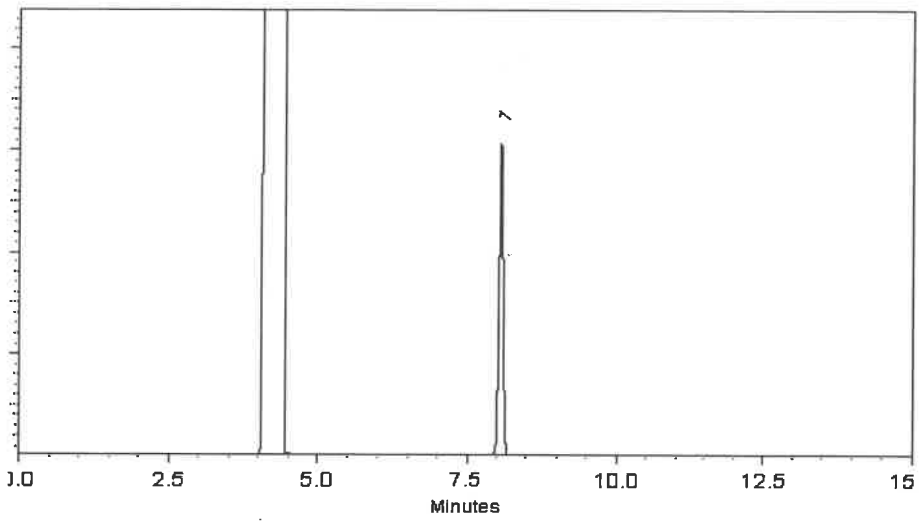
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zo Vinyl Rec 01/08/25

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

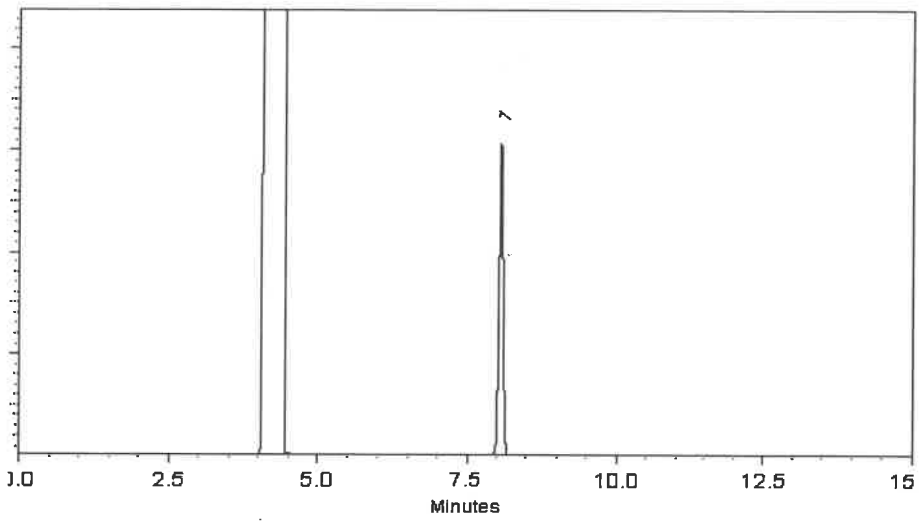
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial

CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
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Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
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Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Lee 05/19/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Rec 05/19/25

RESTEK

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CERTIFIED REFERENCE MATERIAL

2 x Vial

Certificate of Analysis

chromatographic plus

J14951 to J14970

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.

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Catalog No. : 30489 **Lot No.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

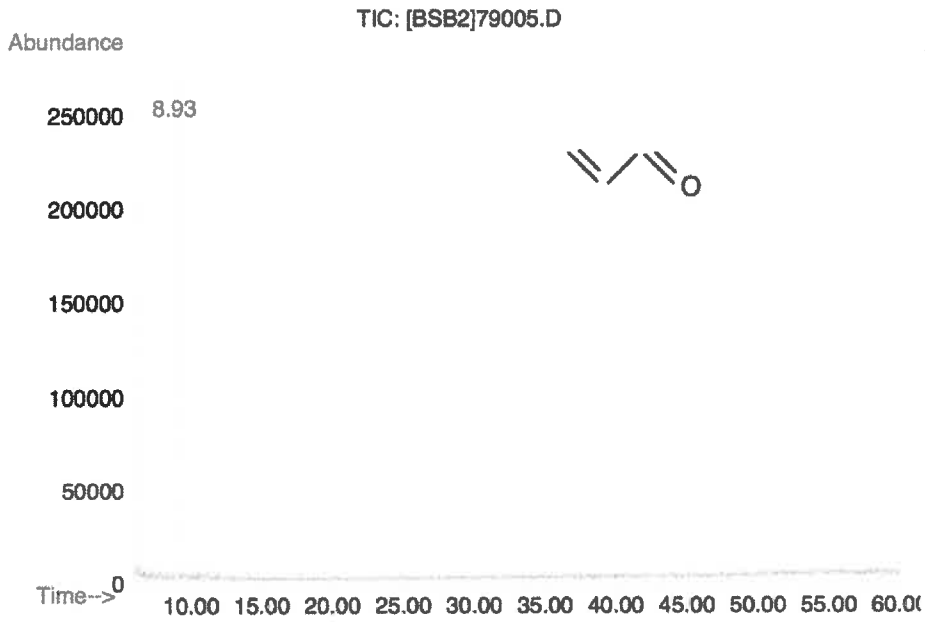
V15064 to V15068

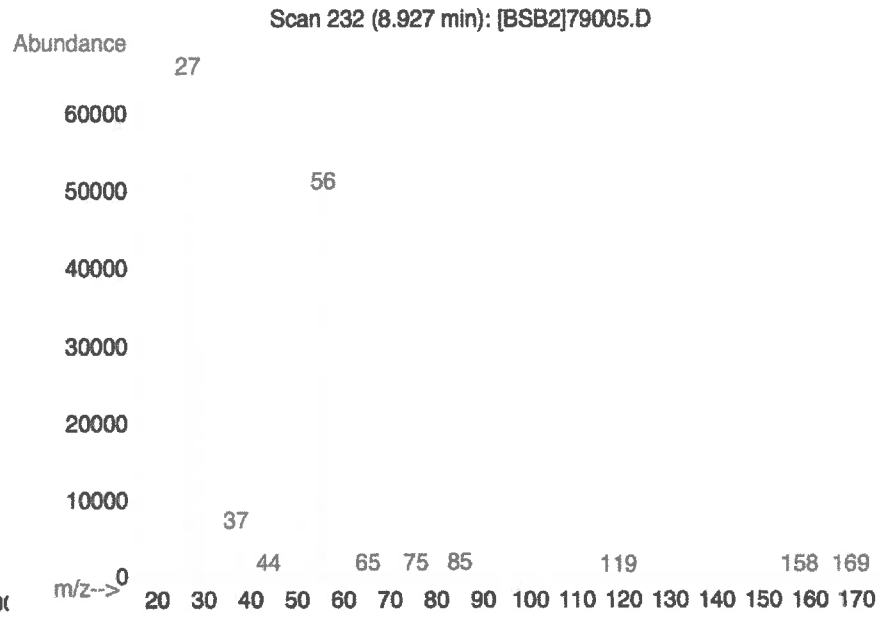
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

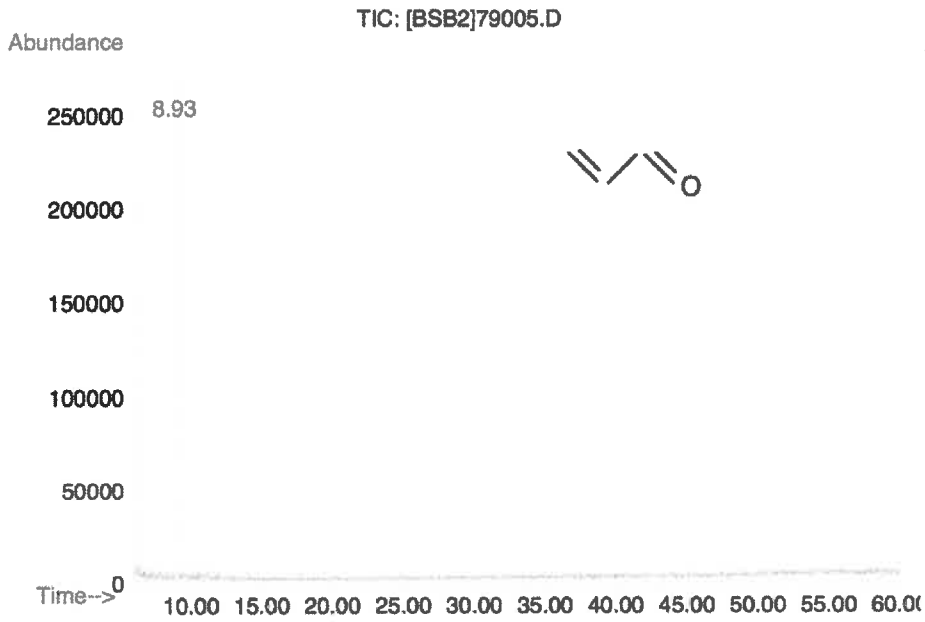
V15064 to V15068

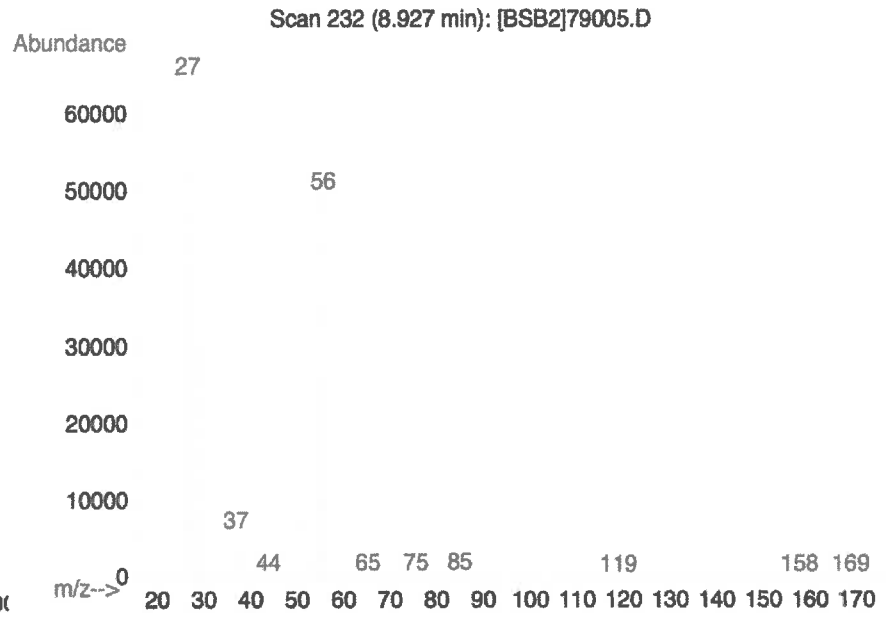
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	091525 DATE
Reviewed By:	Pedro L. Rentas	091525 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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Rev 1.0, 2/25/2025

Absolute Standards, Inc.
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Certified Reference Material CRM

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

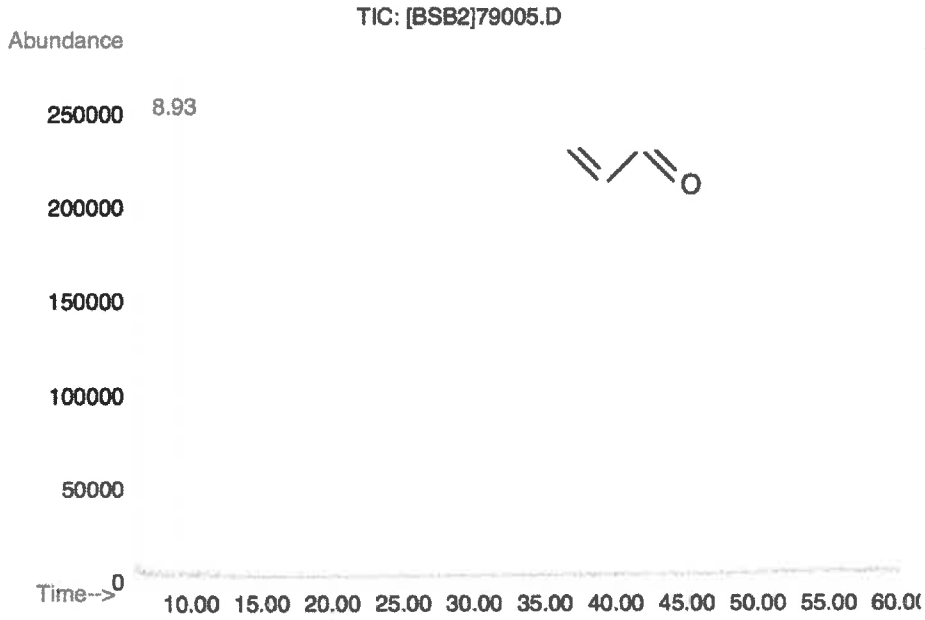
V15064 to V15068

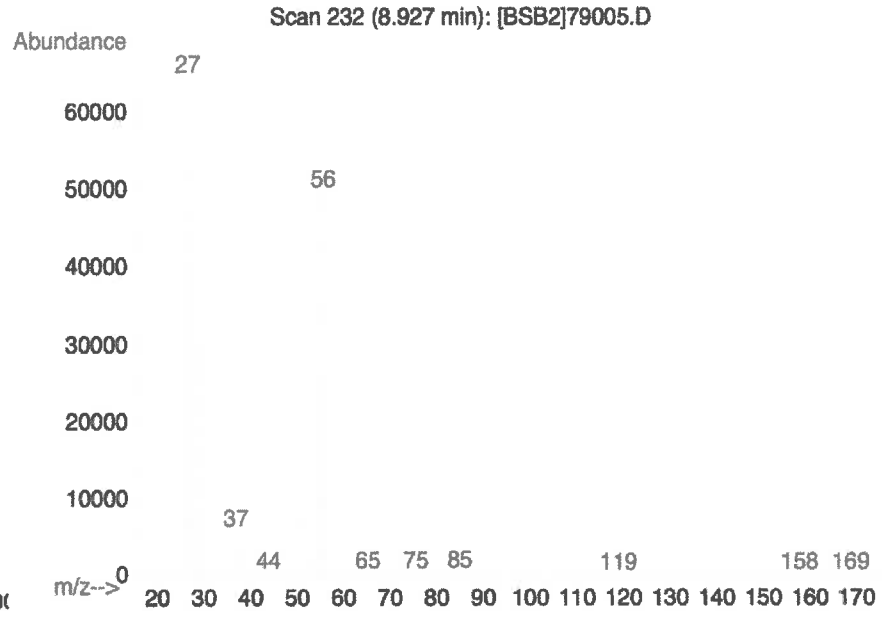
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	091525
Formulated By: Anthony Mahoney	DATE
	091525
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3254
QUOTE NO. BOTTLE ORDER # B250937
COC Number 2045119

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LKB ENGINEERING, PLLC.
ADDRESS: 1 AERIAL WAY
CITY SYOSSET STATE: NY ZIP: 11791
ATTENTION: JOHN GERLACH
PHONE: 516-240-8931 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ANSONIA LANDFILL
PROJECT NO.: 0774-08 LOCATION: CT
PROJECT MANAGER: JOHN GERLACH
e-mail: jgerlach@LKB-ENGINEERING.COM
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: LKB ENGINEERING PO#: N/A for lab
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: SHARON. F. PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STD. DAYS*
EDD: _____ 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: VOCs 2: SEE 3: BOTTLE 4: ORDER # 5: B250937 6: 7: 8: 9:

PRESERVATIVES

A/E E+OTHERS AS APPROPRIATE

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	MW-1	GW		X	9/29/25	9:45	10		X								SAMPLES FOR DISS. Fe+Mn FILTERED IN FIELD
2.	MW-2	GW		X		11:15	10		X								
3.	MW-3	GW		X		12:30	10		X								
4.	MW-4	GW		X		11:45	10		X								
5.	TRIPBLANK	DI		X	↓		2	X									
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	9/30/25 1050	1.	9-30-25 1050
2.		2.	
3.	9-30-25 1245	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
Comments:

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3254 LOCK01
Client Name : Lockwood, Kessler & Bartl
Client Contact : John Gerlach
Invoice Name : Lockwood, Kessler & Bartl
Invoice Contact : John Gerlach

Order Date : 9/30/2025 12:37:00 PM
Project Name : Ansonia Landfill 2025
Receive DateTime : 9/30/2025 12:45:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : NYS ASP B
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff : 9/30/2025 3:06:33 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3254-01	MW-1	Water	09/29/2025	09:45					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3254-03	MW-2	Water	09/29/2025	11:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3254-05	MW-3	Water	09/29/2025	12:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3254-07	MW-4	Water	09/29/2025	11:45					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3254-09	TRIP-BLANK	Water	09/29/2025	00:00					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 9/30/25 13:00

Received By :
Date / Time : 9/30/25 13:00
Storage Area : VOA Refridgerator Room