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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NJ WASTE WATER PT

ALLIANCE TECHNICAL GROUP, LLC - NEWARK

284 Sheffiled Stree

Suite 1

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : Q3015

ATTENTION : Mohammad Ahmed

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3015

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number	Client Sample Number
Q3015-01	WP0925-PT-VOA-WP
Q3015-02	WP0925-PT-VOA-WP
Q3015-03	WP0925-PT-BN-WP
Q3015-04	WP0925-PT-BN-WP
Q3015-05	WP0925-PT-BN-WP
Q3015-06	WP0925-PT-ACIDS-WP
Q3015-07	WP0925-PT-ACIDS-WP
Q3015-08	WP0925-PT-ACIDS-WP
Q3015-09	WP0925-PT-PEST-WP
Q3015-10	WP0925-PT-PEST-WP
Q3015-11	WP0925-PT-CHLR-WP
Q3015-12	WP0925-PT-CHLR-WP
Q3015-13	WP0925-PT-TXP-WP
Q3015-14	WP0925-PT-TXP-WP
Q3015-15	WP0925-PT-PCBW-WP
Q3015-16	WP0925-PT-PCBW-WP
Q3015-17	WP0925-PT-HERB-WP
Q3015-18	WP0925-RR-GAS-WP
Q3015-19	WP0925-RR-DIES-WP
Q3015-20	WP0925-RR-8011-WP
Q3015-21	WP0925-RR-PAH-WP
Q3015-22	WP0925-RR-TRIAZINE-WP

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

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:27 pm, Oct 24, 2025

Date: 9/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Alliance Technical Group, LLC - Newark
Project Name: NJ Waste Water PT
Project # N/A
Order ID # Q3015
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
2 Water samples were received on 09/04/2025.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82X091625W.M) for 2-Chloroethyl Vinyl ether passing on Quadratic Regression.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

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

Signature APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:28 pm, Oct 24, 2025

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3015 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 (82X091625W.M) for 2-Chloroethyl Vinyl ether passing on Quadratic Regression.			✓
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 met requirements for all compounds.		✓	
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: The Holding Times were met for all analysis.		✓	

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

NA NO YES

ADDITIONAL COMMENTS:

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

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:00 am, Oct 24, 2025

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3015

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

QA Review Signature: SOHIL JODHANI **Date:** 09/24/2025

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LAB CHRONICLE

OrderID:	Q3015	**OrderDate:**	9/4/2025 10:14:00 AM
Client:	Alliance Technical Group, LLC - Newark	**Project:**	NJ Waste Water PT
Contact:	Mohammad Ahmed	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3015-01	**WP0925-PT-VOA-WP**	**Water**			**09/02/25**			**09/04/25**
			VOCMS Group1	8260-Low			09/16/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**WP0925-PT-VOA-WP**							
Q3015-01	WP0925-PT-VOA-\	Water	Chloromethane	1.10	J	0.32	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Vinyl Chloride	71.0		0.26	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Bromomethane	56.2		1.40	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,1-Dichloroethene	88.1		0.23	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Acetone	140		1.50	25.0	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Methyl tert-butyl Ether	96.5		0.16	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Methylene Chloride	74.5		0.28	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	trans-1,2-Dichloroethene	88.2		0.23	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	2-Butanone	160		0.98	25.0	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	cis-1,2-Dichloroethene	120		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Chloroform	97.5		0.25	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Benzene	110		0.15	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,2-Dichloroethane	35.0		0.22	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Trichloroethene	90.4		0.090	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Dibromomethane	120		0.25	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Bromodichloromethane	17.1		0.22	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Toluene	35.4		0.14	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	t-1,3-Dichloropropene	62.0		0.17	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	cis-1,3-Dichloropropene	99.3		0.16	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,1,2-Trichloroethane	100		0.21	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	2-Hexanone	110		0.89	25.0	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Dibromochloromethane	68.9		0.18	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,2-Dibromoethane	33.3		0.15	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Tetrachloroethene	74.0		0.23	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Chlorobenzene	23.1		0.12	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,1,1,2-Tetrachloroethane	53.1		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Ethyl Benzene	48.6		0.13	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Total Xylenes	250		0.36	15.0	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	m/p-Xylenes	110		0.24	10.0	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	o-Xylene	140		0.12	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Bromoform	17.8		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Isopropylbenzene	0.21	J	0.12	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,1,2,2-Tetrachloroethane	71.4		0.26	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,2,3-Trichloropropane	99.7		0.35	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	sec-Butylbenzene	0.28	J	0.13	5.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3015-01	WP0925-PT-VOA-\	Water	1,3-Dichlorobenzene	0.22	J	0.16	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,4-Dichlorobenzene	110		0.19	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	n-Butylbenzene	0.43	J	0.15	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,2,4-Trichlorobenzene	0.61	J	0.20	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Hexachlorobutadiene	1.40	J	0.30	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	Naphthalene	78.4		0.20	5.00	ug/L
Q3015-01	WP0925-PT-VOA-\	Water	1,2,3-Trichlorobenzene	0.59	J	0.20	5.00	ug/L
			Total Voc :	2700				
			Total Concentration:	2700				

QC SUMMARY

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Surrogate Summary

SDG No.: Q3015

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3015-01	WP0925-PT-VOA-WP	1,2-Dichloroethane-d4	50	51.3	103		74	125
		Dibromofluoromethane	50	49.3	99		75	124
		Toluene-d8	50	49.5	99		86	113
		4-Bromofluorobenzene	50	49.3	99		77	121
VX0916WBL01	VX0916WBL01	1,2-Dichloroethane-d4	50	56.2	112		74	125
		Dibromofluoromethane	50	49.5	99		75	124
		Toluene-d8	50	49.6	99		86	113
		4-Bromofluorobenzene	50	58.3	117		77	121
VX0916WBS01	VX0916WBS01	1,2-Dichloroethane-d4	50	55.7	111		74	125
		Dibromofluoromethane	50	52.0	104		75	124
		Toluene-d8	50	50.9	102		86	113
		4-Bromofluorobenzene	50	53.9	108		77	121
VX0916WBSD0	VX0916WBSD01	1,2-Dichloroethane-d4	50	49.7	99		74	125
		Dibromofluoromethane	50	50.5	101		75	124
		Toluene-d8	50	50.4	101		86	113
		4-Bromofluorobenzene	50	50.0	100		77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3015 **Analytical Method:** SW8260D

Client: Alliance Technical Group, LLC - New **Datafile :** VX047595.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0916WBS01	Dichlorodifluoromethane	20	18.0	ug/L	90			69	116	
	Chloromethane	20	18.3	ug/L	92			65	116	
	Vinyl chloride	20	18.6	ug/L	93			65	117	
	Ethyl Acetate	20	19.4	ug/L	97			75	115	
	Bromomethane	20	20.6	ug/L	103			58	125	
	Chloroethane	20	19.1	ug/L	96			56	128	
	Trichlorofluoromethane	20	18.8	ug/L	94			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97			80	112	
	1,1-Dichloroethene	20	18.8	ug/L	94			74	110	
	Acrolein	100	94.4	ug/L	94			28	144	
	Acrylonitrile	100	100	ug/L	100			73	113	
	Acetone	100	83.7	ug/L	84			60	125	
	Carbon disulfide	20	18.1	ug/L	91			64	112	
	Methyl tert-butyl Ether	20	20.5	ug/L	103			78	114	
	Methylene Chloride	20	19.1	ug/L	96			72	114	
	trans-1,2-Dichloroethene	20	19.6	ug/L	98			75	108	
	Vinyl Acetate	100	100	ug/L	100			76	115	
	1,1-Dichloroethane	20	19.8	ug/L	99			78	112	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	19.1	ug/L	96			77	113	
	2,2-Dichloropropane	20	18.1	ug/L	91			56	164	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			77	110	
	Chloroform	20	20.3	ug/L	102			79	113	
	1,1,1-Trichloroethane	20	20.2	ug/L	101			80	108	
	1,1-Dichloropropene	20	18.2	ug/L	91			79	110	
	Benzene	20	19.3	ug/L	97			82	109	
	1,2-Dichloroethane	20	19.3	ug/L	97			80	115	
	Trichloroethene	20	19.2	ug/L	96			77	113	
	1,2-Dichloropropane	20	19.5	ug/L	98			83	111	
	Dibromomethane	20	19.3	ug/L	97			82	110	
	Bromodichloromethane	20	19.2	ug/L	96			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	19.3	ug/L	97			82	110	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			79	110	
	cis-1,3-Dichloropropene	20	19.5	ug/L	98			82	110	
	1,1,2-Trichloroethane	20	19.6	ug/L	98			83	112	
	1,3-Dichloropropane	20	20.2	ug/L	101			83	111	
	2-Chloroethyl vinyl ether	100	84.6	ug/L	85			75	124	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	19.9	ug/L	100			82	110	
	1,2-Dibromoethane	20	20.3	ug/L	102			81	110	
	Tetrachloroethene	20	18.3	ug/L	92			67	123	
	Chlorobenzene	20	18.5	ug/L	93			82	109	
	1,1,1,2-Tetrachloroethane	20	18.7	ug/L	94			84	111	
	Ethyl Benzene	20	18.7	ug/L	94			83	109	
	m/p-Xylenes	40	37.4	ug/L	94			82	110	
	o-Xylene	20	18.7	ug/L	94			83	109	
	Styrene	20	18.6	ug/L	93			80	111	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3015 **Analytical Method:** SW8260D

Client: Alliance Technical Group, LLC - Newa **Datafile :** VX047595.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0916WBS01	Bromoform	20	18.7	ug/L	94			79	109	
	Isopropylbenzene	20	17.9	ug/L	90			83	112	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/L	91			76	118	
	1,2,3-Trichloropropane	20	19.2	ug/L	96			75	112	
	Bromobenzene	20	17.8	ug/L	89			77	116	
	N-propylbenzene	20	17.8	ug/L	89			83	112	
	2-Chlorotoluene	20	18.1	ug/L	91			83	110	
	1,3,5-Trimethylbenzene	20	18.0	ug/L	90			85	112	
	4-Chlorotoluene	20	17.9	ug/L	90			82	110	
	1,2,4-Trimethylbenzene	20	18.0	ug/L	90			85	111	
	Sec-butylbenzene	20	17.9	ug/L	90			81	114	
	p-Isopropyltoluene	20	17.8	ug/L	89			78	116	
	1,3-Dichlorobenzene	20	17.8	ug/L	89			82	108	
	1,4-Dichlorobenzene	20	17.5	ug/L	88			82	107	
	n-Butylbenzene	20	18.0	ug/L	90			75	115	
	1,2-Dichlorobenzene	20	18.1	ug/L	91			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.2	ug/L	91			68	112	
	1,2,4-Trichlorobenzene	20	17.9	ug/L	90			75	113	
	Hexachlorobutadiene	20	17.6	ug/L	88			81	121	
	Naphthalene	20	17.8	ug/L	89			78	119	
	1,2,3-Trichlorobenzene	20	17.8	ug/L	89			76	114	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3015 **Analytical Method:** SW8260D

Client: Alliance Technical Group, LLC - New **Datafile :** VX047596.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0916WBSD01	Dichlorodifluoromethane	20	17.8	ug/L	89	1		69	116	19
	Chloromethane	20	17.0	ug/L	85	8		65	116	21
	Vinyl chloride	20	18.3	ug/L	92	1		65	117	19
	Ethyl Acetate	20	19.3	ug/L	97	0		75	115	27
	Bromomethane	20	20.0	ug/L	100	3		58	125	20
	Chloroethane	20	18.6	ug/L	93	3		56	128	20
	Trichlorofluoromethane	20	18.9	ug/L	95	1		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/L	98	1		80	112	15
	1,1-Dichloroethene	20	19.2	ug/L	96	2		74	110	20
	Acrolein	100	95.1	ug/L	95	1		28	144	30
	Acrylonitrile	100	110	ug/L	110	10		73	113	29
	Acetone	100	82.6	ug/L	83	1		60	125	20
	Carbon disulfide	20	18.0	ug/L	90	1		64	112	20
	Methyl tert-butyl Ether	20	20.0	ug/L	100	3		78	114	20
	Methylene Chloride	20	19.1	ug/L	96	0		72	114	20
	trans-1,2-Dichloroethene	20	19.0	ug/L	95	3		75	108	16
	Vinyl Acetate	100	99.2	ug/L	99	1		76	115	26
	1,1-Dichloroethane	20	19.5	ug/L	98	1		78	112	20
	2-Butanone	100	98.8	ug/L	99	1		65	122	26
	Carbon Tetrachloride	20	19.5	ug/L	98	2		77	113	15
	2,2-Dichloropropane	20	17.6	ug/L	88	3		56	164	20
	cis-1,2-Dichloroethene	20	19.4	ug/L	97	3		77	110	20
	Chloroform	20	20.0	ug/L	100	2		79	113	20
	1,1,1-Trichloroethane	20	20.0	ug/L	100	1		80	108	20
	1,1-Dichloropropene	20	19.5	ug/L	98	7		79	110	16
	Benzene	20	19.5	ug/L	98	1		82	109	15
	1,2-Dichloroethane	20	19.5	ug/L	98	1		80	115	20
	Trichloroethene	20	19.5	ug/L	98	2		77	113	15
	1,2-Dichloropropane	20	19.9	ug/L	100	2		83	111	16
	Dibromomethane	20	20.2	ug/L	101	4		82	110	20
	Bromodichloromethane	20	19.9	ug/L	100	4		83	110	16
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		74	118	25
	Toluene	20	19.8	ug/L	99	2		82	110	16
	t-1,3-Dichloropropene	20	19.8	ug/L	99	3		79	110	20
	cis-1,3-Dichloropropene	20	19.3	ug/L	97	1		82	110	16
	1,1,2-Trichloroethane	20	20.0	ug/L	100	2		83	112	20
	1,3-Dichloropropane	20	20.6	ug/L	103	2		83	111	20
	2-Chloroethyl vinyl ether	100	85.5	ug/L	86	1		75	124	20
	2-Hexanone	100	100	ug/L	100	0		73	117	25
	Dibromochloromethane	20	20.1	ug/L	101	1		82	110	20
	1,2-Dibromoethane	20	20.6	ug/L	103	1		81	110	20
	Tetrachloroethene	20	19.7	ug/L	99	7		67	123	15
	Chlorobenzene	20	19.6	ug/L	98	5		82	109	15
	1,1,1,2-Tetrachloroethane	20	19.7	ug/L	99	5		84	111	20
	Ethyl Benzene	20	19.8	ug/L	99	5		83	109	16
	m/p-Xylenes	40	39.7	ug/L	99	5		82	110	15
	o-Xylene	20	20.1	ug/L	101	7		83	109	20
	Styrene	20	19.9	ug/L	100	7		80	111	17

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3015 **Analytical Method:** SW8260D

Client: Alliance Technical Group, LLC - Newa **Datafile :** VX047596.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0916WBSD01	Bromoform	20	20.2	ug/L	101	7		79	109	20
	Isopropylbenzene	20	20.1	ug/L	101	12		83	112	29
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	11		76	118	20
	1,2,3-Trichloropropane	20	18.6	ug/L	93	3		75	112	20
	Bromobenzene	20	20.0	ug/L	100	12		77	116	20
	N-propylbenzene	20	20.4	ug/L	102	14		83	112	20
	2-Chlorotoluene	20	20.3	ug/L	102	11		83	110	20
	1,3,5-Trimethylbenzene	20	20.4	ug/L	102	13		85	112	20
	4-Chlorotoluene	20	20.1	ug/L	101	12		82	110	20
	1,2,4-Trimethylbenzene	20	20.4	ug/L	102	13		85	111	20
	Sec-butylbenzene	20	20.8	ug/L	104	14		81	114	20
	p-Isopropyltoluene	20	20.6	ug/L	103	15		78	116	20
	1,3-Dichlorobenzene	20	20.4	ug/L	102	14		82	108	20
	1,4-Dichlorobenzene	20	19.8	ug/L	99	12		82	107	15
	n-Butylbenzene	20	20.9	ug/L	104	14		75	115	20
	1,2-Dichlorobenzene	20	20.3	ug/L	102	11		82	109	20
	1,2-Dibromo-3-Chloropropane	20	20.2	ug/L	101	10		68	112	20
	1,2,4-Trichlorobenzene	20	20.5	ug/L	103	13		75	113	29
	Hexachlorobutadiene	20	21.5	ug/L	108	20		81	121	20
	Naphthalene	20	20.5	ug/L	103	15		78	119	20
	1,2,3-Trichlorobenzene	20	20.9	ug/L	104	16		76	114	29

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VOLATILE METHOD BLANK SUMMARY

Client ID: VX0916WBL01

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG NO.: Q3015

Lab File ID: VX047594.D Lab Sample ID: VX0916WBL01

Date Analyzed: 09/16/2025 Time Analyzed: 14:53

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

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0916WBS01	VX0916WBS01	VX047595.D	09/16/2025
VX0916WBSD01	VX0916WBSD01	VX047596.D	09/16/2025
WP0925-PT-VOA-WP	Q3015-01	VX047597.D	09/16/2025

COMMENTS:

Alliance TECHNICAL GROUP
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: ALLI03
Lab Code: ACE
SDG NO.: Q3015
Lab File ID: VX047584.D
BFB Injection Date: 09/16/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:56
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

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

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX047585.D	09/16/2025	09:23
VSTDICC005	VSTDICC005	VX047586.D	09/16/2025	10:16
VSTDICC020	VSTDICC020	VX047587.D	09/16/2025	10:37
VSTDICCC050	VSTDICCC050	VX047588.D	09/16/2025	10:58
VSTDICC100	VSTDICC100	VX047589.D	09/16/2025	11:40
VSTDICC150	VSTDICC150	VX047590.D	09/16/2025	12:01
VX0916WBL01	VX0916WBL01	VX047594.D	09/16/2025	14:53
VX0916WBS01	VX0916WBS01	VX047595.D	09/16/2025	15:21
VX0916WBSD01	VX0916WBSD01	VX047596.D	09/16/2025	15:46
WP0925-PT-VOA-WP	Q3015-01	VX047597.D	09/16/2025	16:07

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG NO.: Q3015

Lab File ID: VX047588.D Date Analyzed: 09/16/2025

Instrument ID: MSVOA_X Time Analyzed: 10:58

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	173407	5.54	307383	6.75	270040	10.04
UPPER LIMIT	346814	6.044	614766	7.245	540080	10.537
LOWER LIMIT	86703.5	5.044	153692	6.245	135020	9.537
EPA SAMPLE NO.						
WP0925-PT-VOA-WP	166705	5.54	308833	6.75	276674	10.04
VX0916WBL01	170934	5.54	354724	6.75	356396	10.04
VX0916WBS01	184711	5.53	338431	6.75	315471	10.04
VX0916WBSD01	181929	5.54	325791	6.75	290596	10.04

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG NO.: Q3015

Lab File ID: VX047588.D Date Analyzed: 09/16/2025

Instrument ID: MSVOA_X Time Analyzed: 10:58

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

	IS4 AREA #	RT #				
12 HOUR STD	127732	12.006				
UPPER LIMIT	255464	12.506				
LOWER LIMIT	63866	11.506				
EPA SAMPLE NO.						
WP0925-PT-VOA-WP	133950	12.01				
VX0916WBL01	185546	12.01				
VX0916WBS01	158261	12.01				
VX0916WBSD01	138945	12.01				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-PT-VOA-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-01	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
VX047597.D	1	09/16/25 16:07	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	1.10	J	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	71.0		0.26	5.00	ug/L
74-83-9	Bromomethane	56.2		1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
75-35-4	1,1-Dichloroethene	88.1		0.23	5.00	ug/L
107-02-8	Acrolein	7.10	U	7.10	25.0	ug/L
107-13-1	Acrylonitrile	0.83	U	0.83	25.0	ug/L
67-64-1	Acetone	140		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	96.5		0.16	5.00	ug/L
75-09-2	Methylene Chloride	74.5		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	88.2		0.23	5.00	ug/L
108-05-4	Vinyl Acetate	0.66	U	0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	160		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.21	U	0.21	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	120		0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	97.5		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.15	U	0.15	5.00	ug/L
71-43-2	Benzene	110		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	35.0		0.22	5.00	ug/L
79-01-6	Trichloroethene	90.4		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
74-95-3	Dibromomethane	120		0.25	5.00	ug/L
75-27-4	Bromodichloromethane	17.1		0.22	5.00	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-PT-VOA-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-01	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
VX047597.D	1	09/16/25 16:07	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	35.4		0.14	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	62.0		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	99.3		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	100		0.21	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.19	U	0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	0.30	U	0.30	25.0	ug/L
591-78-6	2-Hexanone	110		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	68.9		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	33.3		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	74.0		0.23	5.00	ug/L
108-90-7	Chlorobenzene	23.1		0.12	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	53.1		0.19	5.00	ug/L
67-72-1	Hexachloroethane	0.32	U	0.32	5.00	ug/L
100-41-4	Ethyl Benzene	48.6		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	10.0	ug/L
1330-20-7	Total Xylenes	250		0.36	15.0	ug/L
95-47-6	o-Xylene	140		0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	17.8		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.21	J	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	71.4		0.26	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	99.7		0.35	5.00	ug/L
108-86-1	Bromobenzene	0.24	U	0.24	5.00	ug/L
103-65-1	n-propylbenzene	0.13	U	0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	0.14	U	0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.15	U	0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	0.13	U	0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	0.14	U	0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.14	U	0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	0.28	J	0.13	5.00	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	09/02/25
Project:	NJ Waste Water PT	Date Received:	09/04/25
Client Sample ID:	WP0925-PT-VOA-WP	SDG No.:	Q3015
Lab Sample ID:	Q3015-01	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
VX047597.D	1	09/16/25 16:07	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.13	U	0.13	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.22	J	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	110		0.19	5.00	ug/L
104-51-8	n-Butylbenzene	0.43	J	0.15	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.61	J	0.20	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.40	J	0.30	5.00	ug/L
91-20-3	Naphthalene	78.4		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.59	J	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.5		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	5.538			
540-36-3	1,4-Difluorobenzene	309000	6.751			
3114-55-4	Chlorobenzene-d5	277000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	134000	12.006			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047597.D
Acq On : 16 Sep 2025 16:07
Operator : JC/MD
Sample : Q3015-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 06:52:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	166705	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	308833	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	276674	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	133950	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	136237	51.342	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.680%			
35) Dibromofluoromethane	5.373	113	102057	49.274	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.540%			
50) Toluene-d8	8.635	98	354807	49.507	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.020%			
62) 4-Bromofluorobenzene	11.061	95	134055	49.286	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.580%			
Target Compounds						Qvalue
3) Chloromethane	1.301	50	2396	1.056	ug/l	92
4) Vinyl Chloride	1.380	62	157647	70.984	ug/l	100
5) Bromomethane	1.624	94	79172	56.219	ug/l	99
10) Methyl Iodide	2.459	142	17284	5.748	ug/l	97
12) 1,1-Dichloroethene	2.325	96	174530	88.118	ug/l	94
16) Acetone	2.374	43	165914	143.803	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	697735	96.503	ug/l	99
20) Methylene Chloride	2.794	84	182020	74.531	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	188024	88.175	ug/l	98
25) 2-Butanone	4.538	43	229839	159.702	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	319167	122.218	ug/l	90
30) Chloroform	5.080	83	414814	97.504	ug/l	99
40) Benzene	6.025	78	1013580	110.264	ug/l	99
42) 1,2-Dichloroethane	6.074	62	122452	35.011	ug/l	100
44) Trichloroethene	7.111	130	200949	90.421	ug/l	99
46) Dibromomethane	7.568	93	211104	123.246	ug/l	98
47) Bromodichloromethane	7.812	83	60296	17.059	ug/l	97
52) Toluene	8.702	92	200563	35.414	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	223638	62.030	ug/l	98
54) cis-1,3-Dichloropropene	8.354	75	382625	99.292	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	225879	103.436	ug/l	99
59) 2-Hexanone	9.415	43	229816	108.592	ug/l	100
60) Dibromochloromethane	9.506	129	173345	68.892	ug/l	99
61) 1,2-Dibromoethane	9.592	107	74115	33.321	ug/l	98
64) Tetrachloroethene	9.256	164	133498	74.017	ug/l	99
65) Chlorobenzene	10.061	112	145444	23.140	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	115065	53.051	ug/l	100
67) Ethyl Benzene	10.177	91	527444	48.634	ug/l	99
68) m/p-Xylenes	10.287	106	446608	110.638	ug/l	99
69) o-Xylene	10.628	106	558297	142.992	ug/l	100
71) Bromoform	10.781	173	28772	17.766	ug/l #	97
73) Isopropylbenzene	10.945	105	2144	0.211	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.195	83	220089	71.432	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	270268	99.654	ug/l	91
85) sec-Butylbenzene	11.872	105	2861	0.281	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	1037m	0.223	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047597.D
Acq On : 16 Sep 2025 16:07
Operator : JC/MD
Sample : Q3015-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 06:52:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Manual Integrations APPROVED

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	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88)	1,4-Dichlorobenzene	12.024	146	533129	111.499	ug/l	99
89)	n-Butylbenzene	12.317	91	3435	0.431	ug/l	98
93)	1,2,4-Trichlorobenzene	13.567	180	1756	0.609	ug/l	95
94)	Hexachlorobutadiene	13.707	225	1413	1.442	ug/l	99
95)	Naphthalene	13.756	128	688992	78.440	ug/l	100
96)	1,2,3-Trichlorobenzene	13.945	180	1578	0.588	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047597.D
Acq On : 16 Sep 2025 16:07
Operator : JC/MD
Sample : Q3015-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 06:52:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

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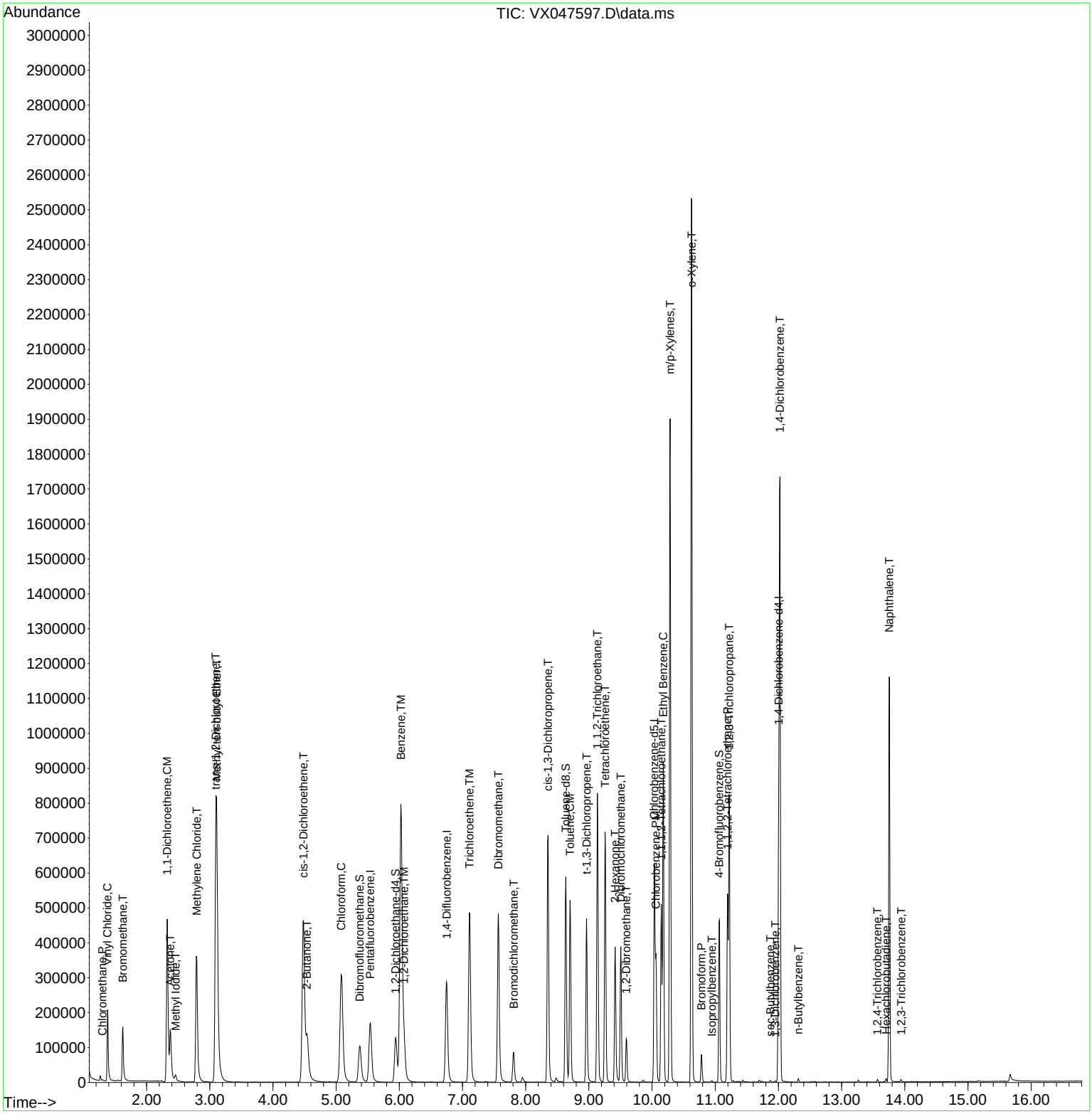
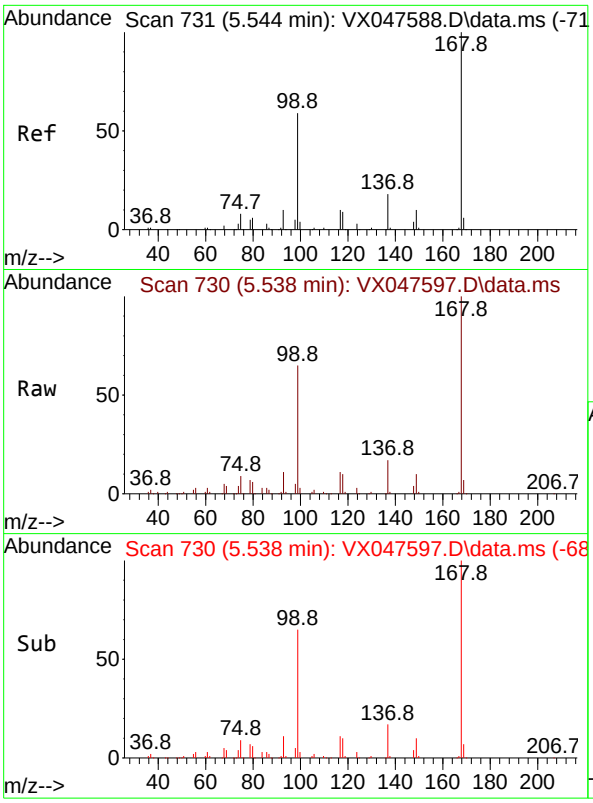
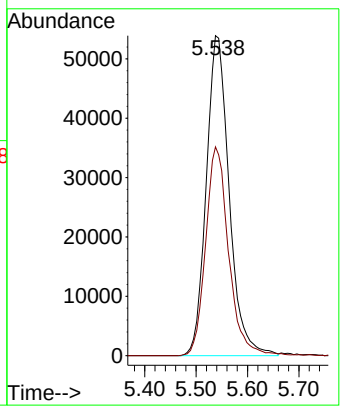




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:168 Resp: 16670

Ion	Ratio	Lower	Upper
168	100		
99	65.3	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 09/23/2025
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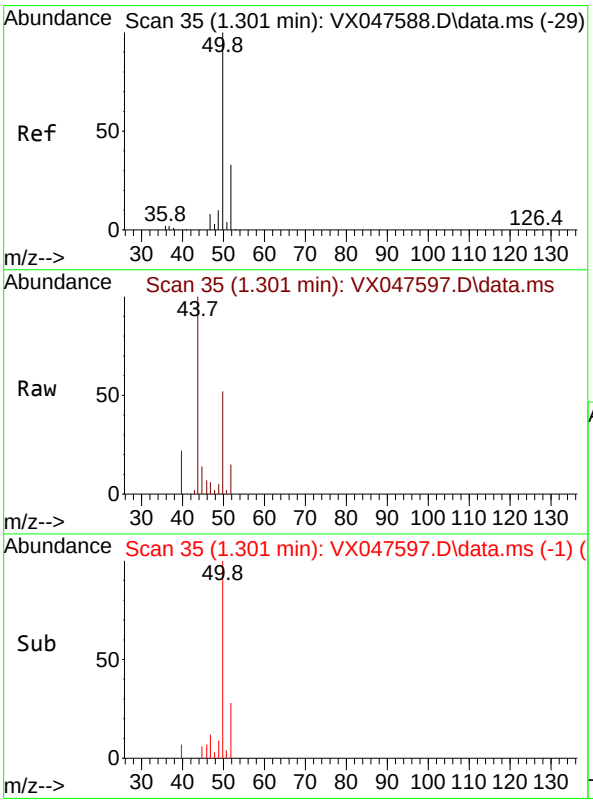
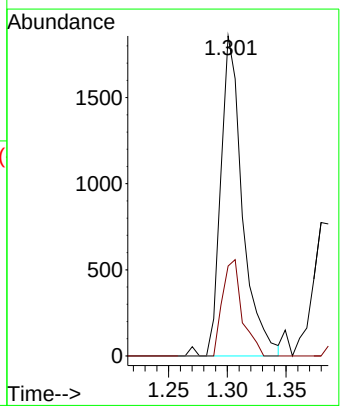
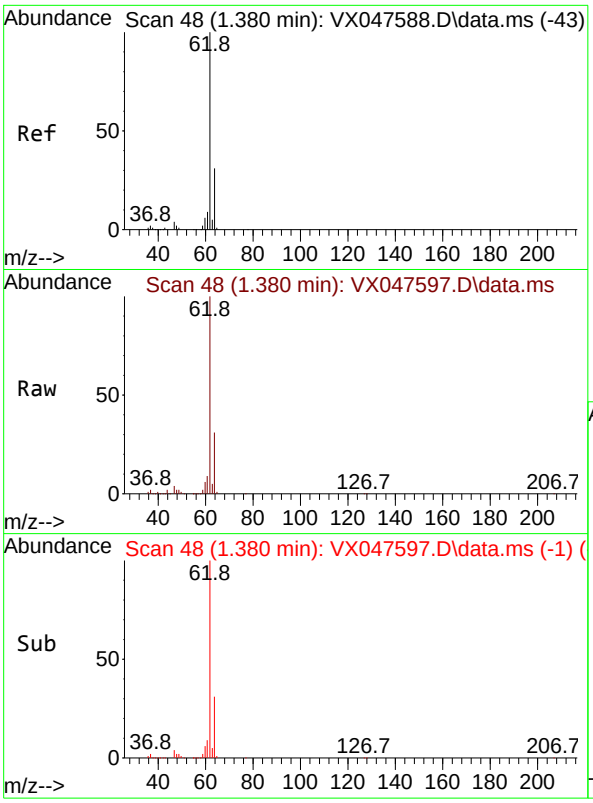


#3
Chloromethane
Concen: 1.056 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 50 Resp: 2396

Ion	Ratio	Lower	Upper
50	100		
52	28.1	26.1	39.1

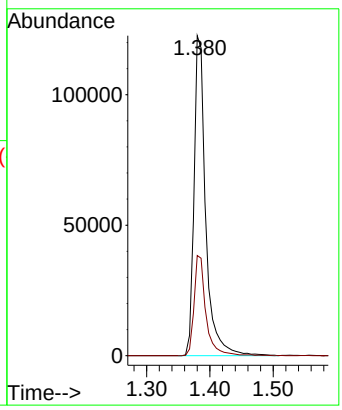




#4
Vinyl Chloride
Concen: 70.984 ug/l
RT: 1.380 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 62 Resp: 15764

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.9	37.3



Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

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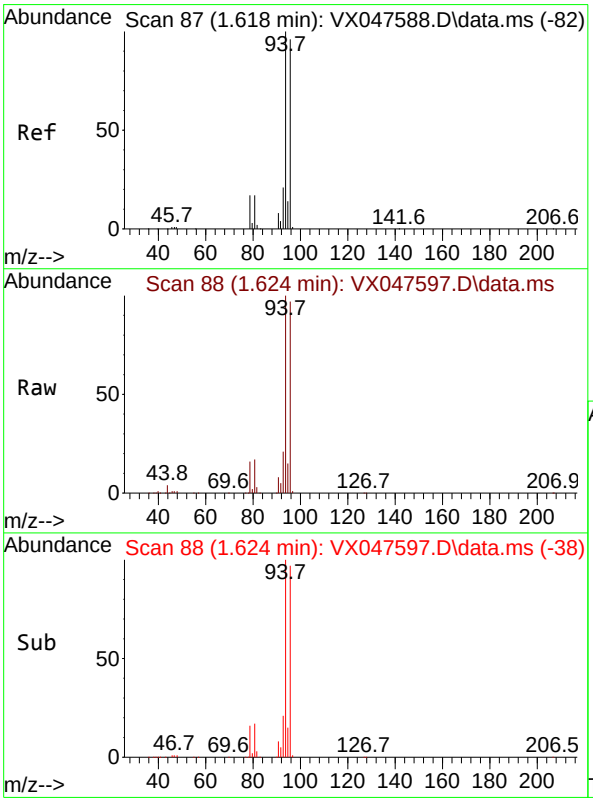
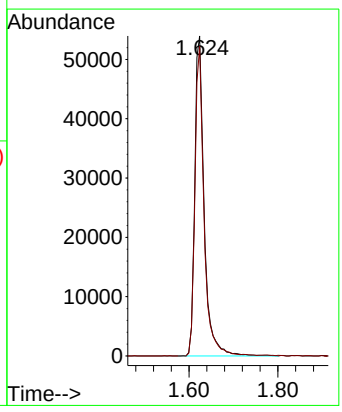
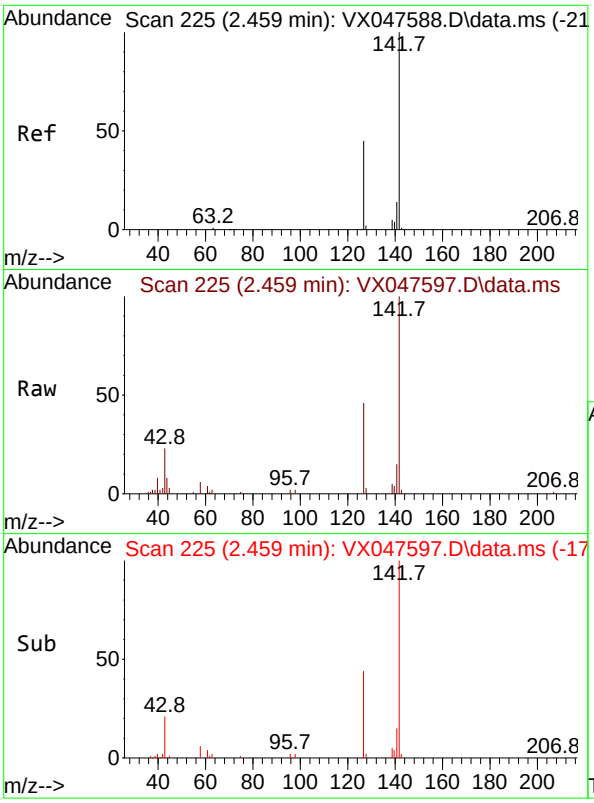


#5
Bromomethane
Concen: 56.219 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 94 Resp: 79172

Ion	Ratio	Lower	Upper
94	100		
96	96.8	76.6	115.0

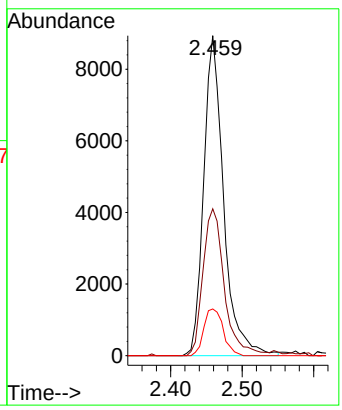




#10
Methyl Iodide
Concen: 5.748 ug/l
RT: 2.459 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:142 Resp: 1728

Ion	Ratio	Lower	Upper
142	100		
127	49.3	37.2	55.8
141	14.2	11.4	17.0



Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Manual Integrations
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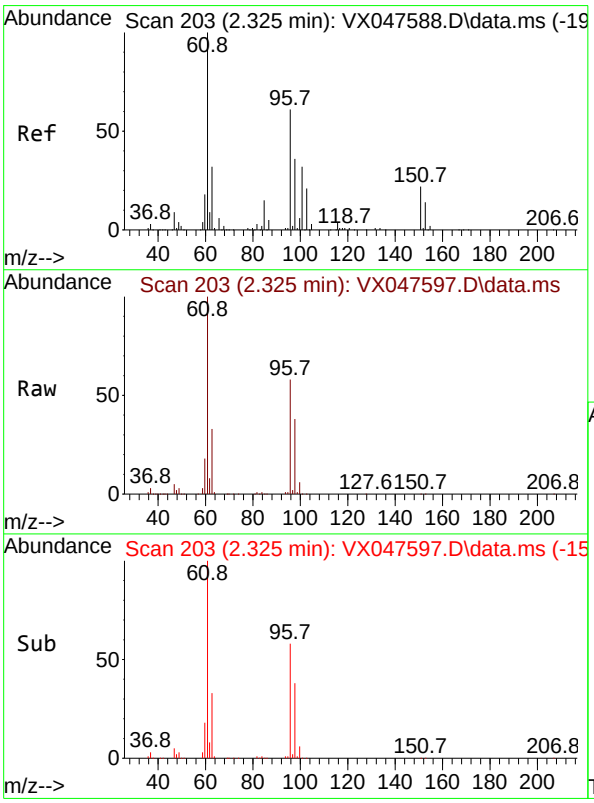
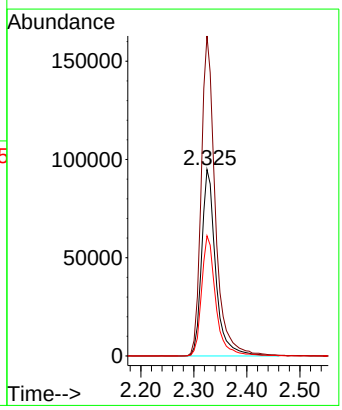
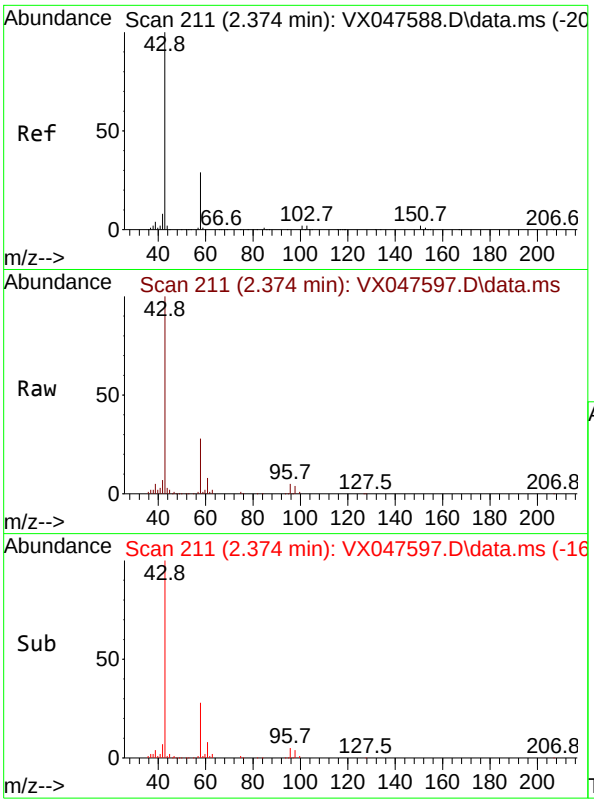


#12
1,1-Dichloroethene
Concen: 88.118 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 96 Resp: 174530

Ion	Ratio	Lower	Upper
96	100		
61	171.6	131.0	196.6
98	64.5	47.7	71.5





#16
Acetone
Concen: 143.803 ug/l
RT: 2.374 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 43 Resp: 16591

Ion	Ratio	Lower	Upper
43	100		
58	28.2	23.4	35.0

Instrument :
MSVOA_X
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WP0925-PT-VOA-WP

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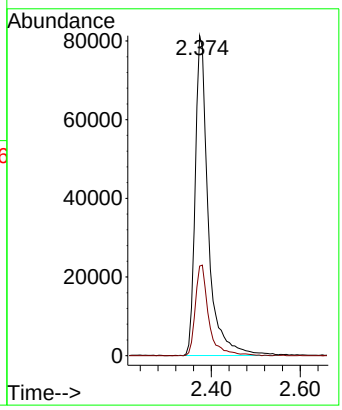
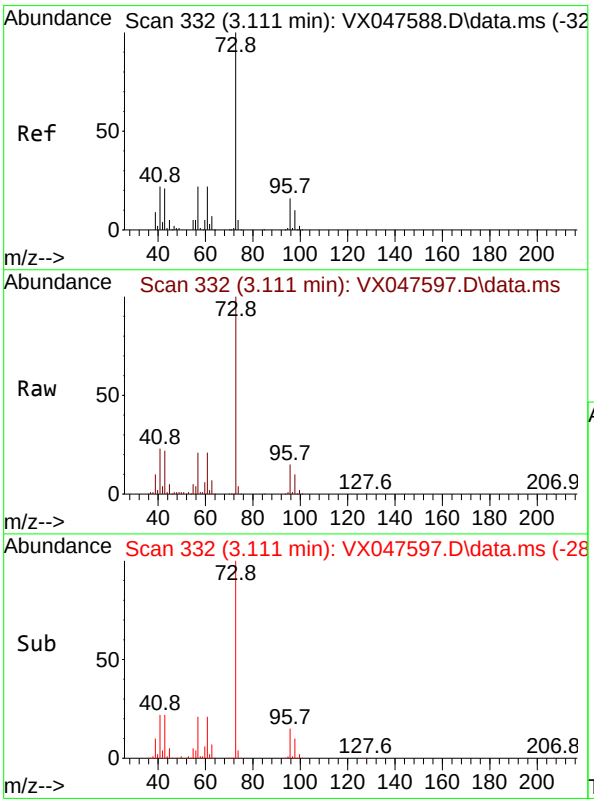
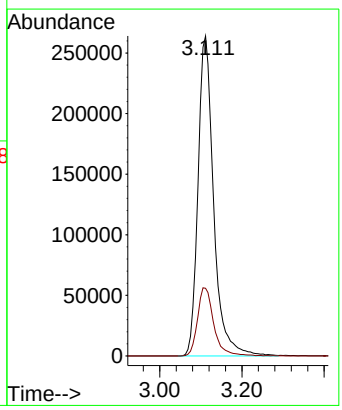


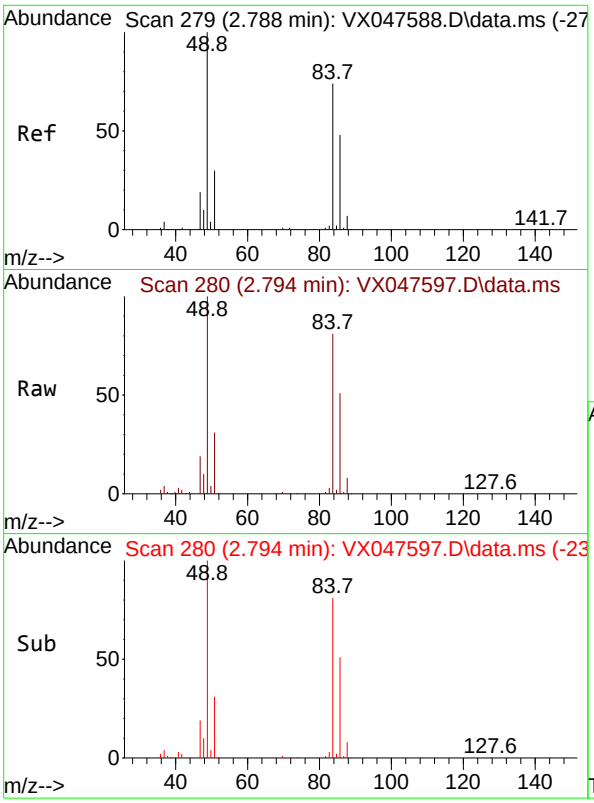


#19
Methyl tert-butyl Ether
Concen: 96.503 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 73 Resp: 697735

Ion	Ratio	Lower	Upper
73	100		
57	21.2	17.4	26.2

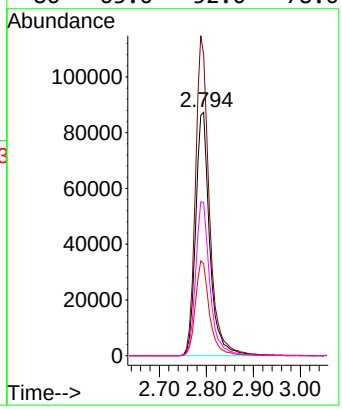




#20
Methylene Chloride
Concen: 74.531 ug/l
RT: 2.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 84 Resp: 18202

Ion	Ratio	Lower	Upper
84	100		
49	123.7	108.6	162.8
51	37.7	32.6	48.8
86	63.0	52.0	78.0



Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Manual Integrations
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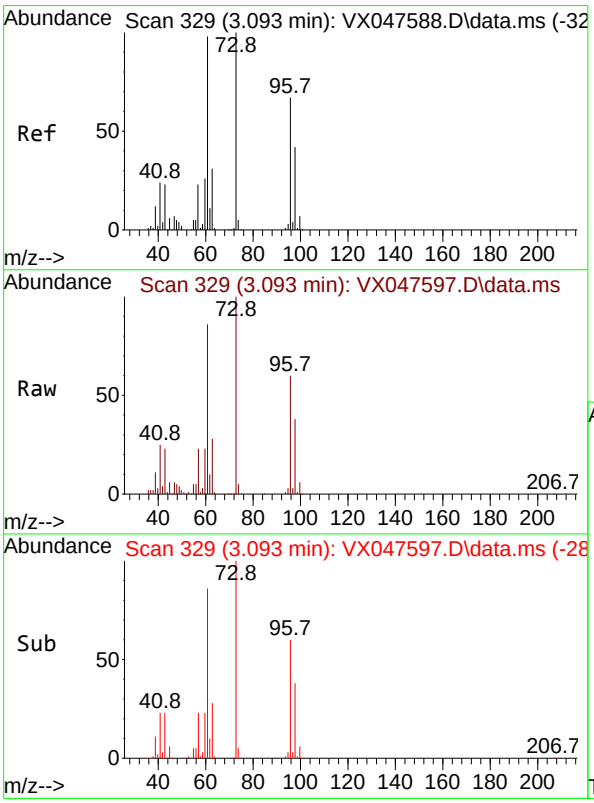
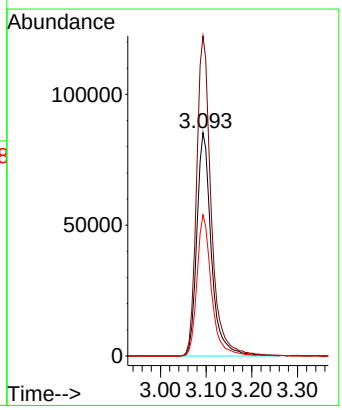
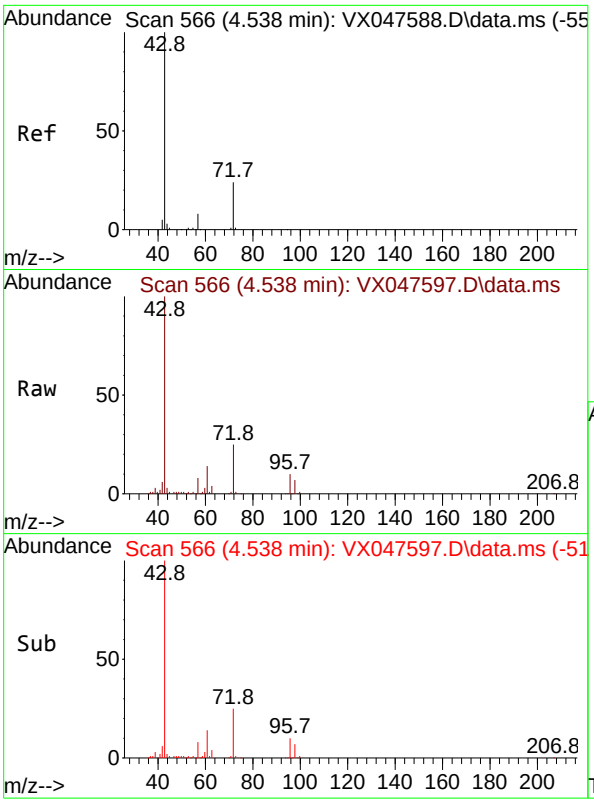


#21
trans-1,2-Dichloroethene
Concen: 88.175 ug/l
RT: 3.093 min Scan# 329
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 96 Resp: 188024

Ion	Ratio	Lower	Upper
96	100		
61	143.3	116.2	174.2
98	63.2	49.3	73.9





#25
2-Butanone
Concen: 159.702 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 43 Resp: 22983

Ion	Ratio	Lower	Upper
43	100		
72	24.4	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
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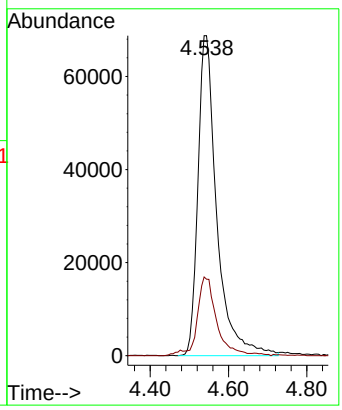
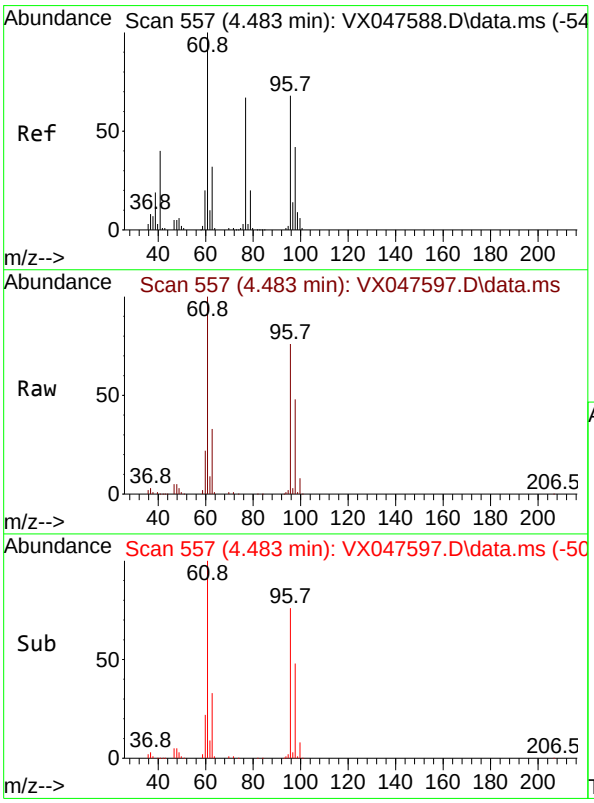
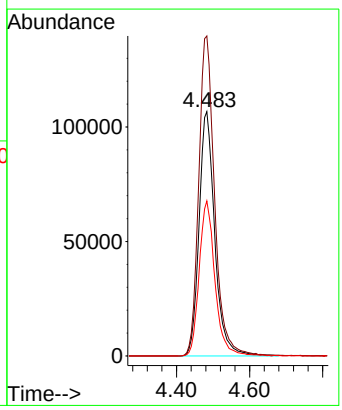


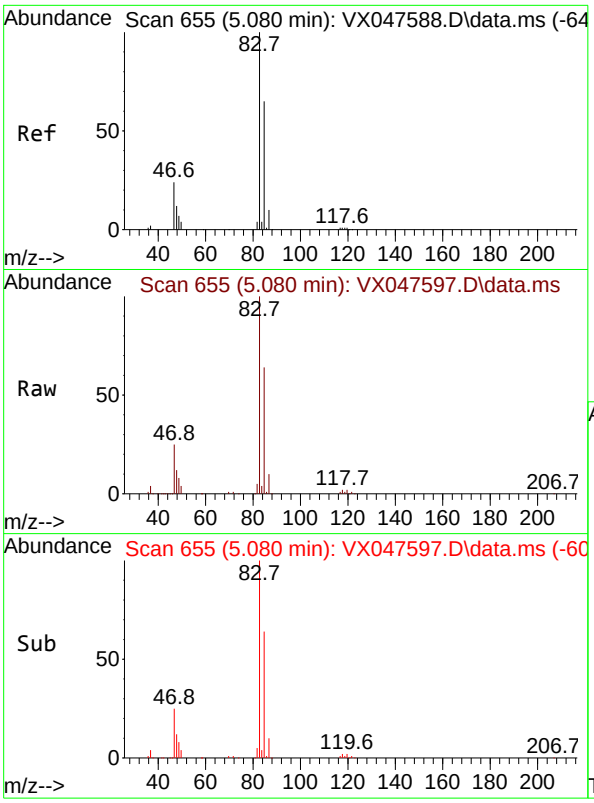


#27
cis-1,2-Dichloroethene
Concen: 122.218 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 96 Resp: 319167

Ion	Ratio	Lower	Upper
96	100		
61	133.0	0.0	303.2
98	63.6	0.0	127.8

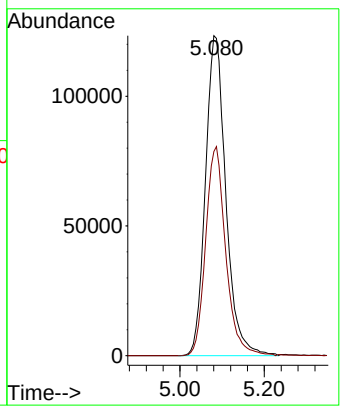




#30
Chloroform
Concen: 97.504 ug/l
RT: 5.080 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 83 Resp: 41481

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.8	77.6



Instrument :
MSVOA_X
ClientSampleId :
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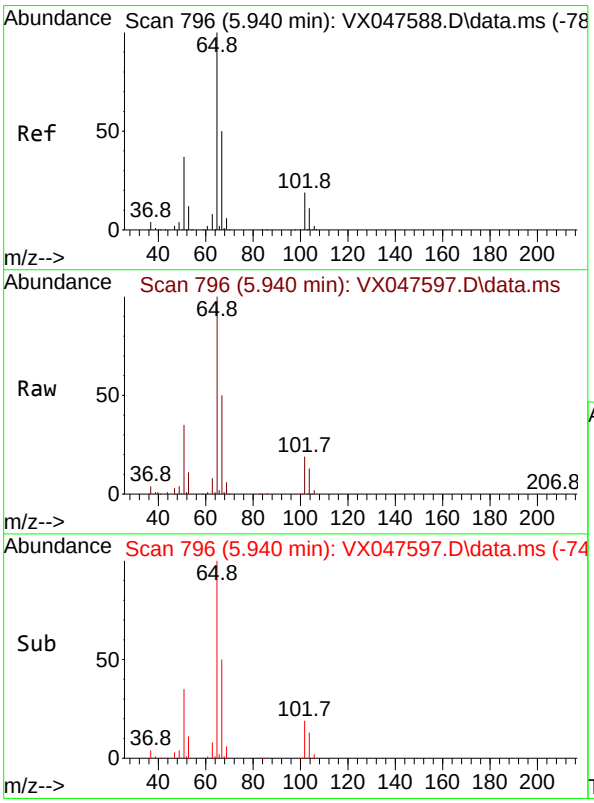
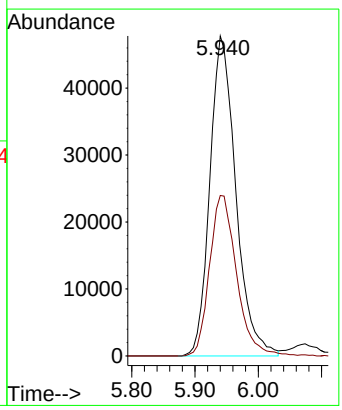
Reviewed By :Mahesh Dadoda 09/23/2025
Supervised By :Semsettin Yesilyurt 09/23/2025

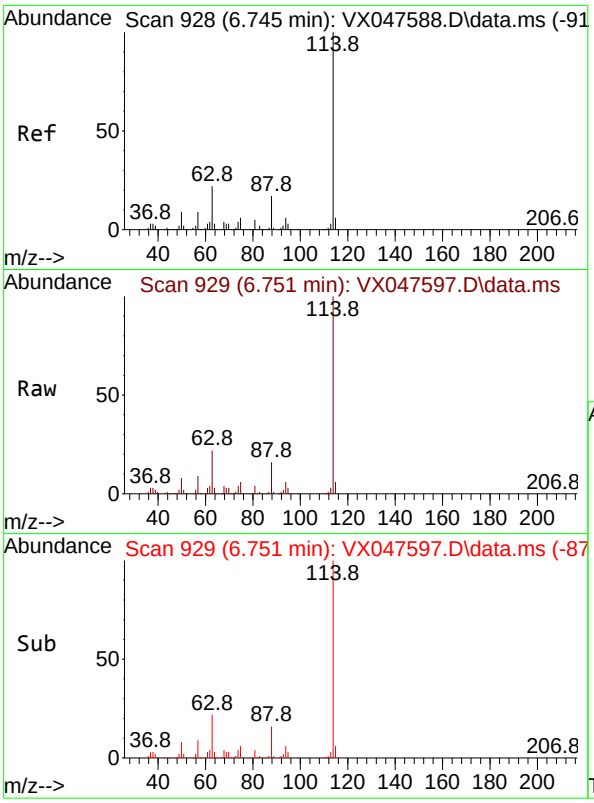


#33
1,2-Dichloroethane-d4
Concen: 51.342 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 65 Resp: 136237

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:114 Resp: 30883

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	44.0
88	15.9	0.0	34.2

Instrument :
MSVOA_X
ClientSampleId :
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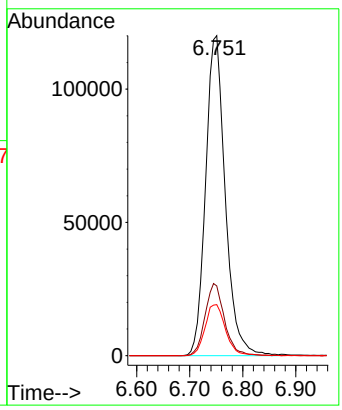
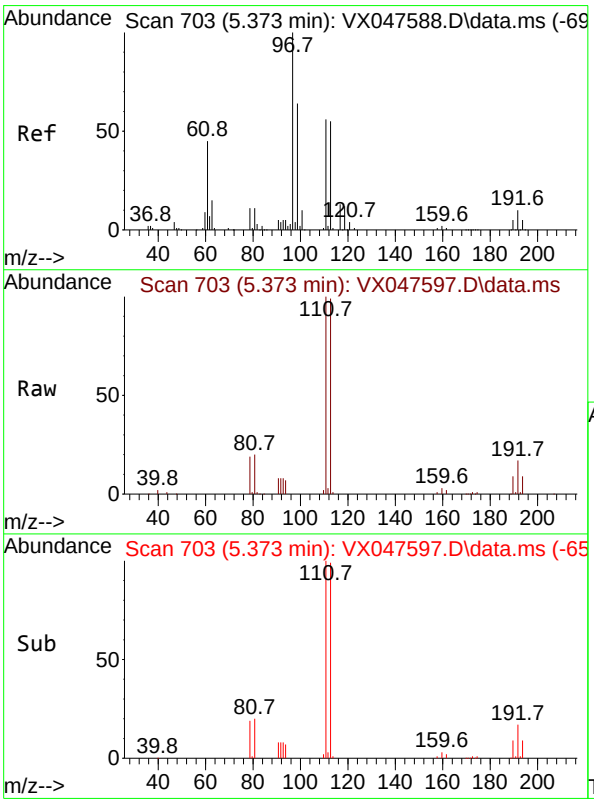
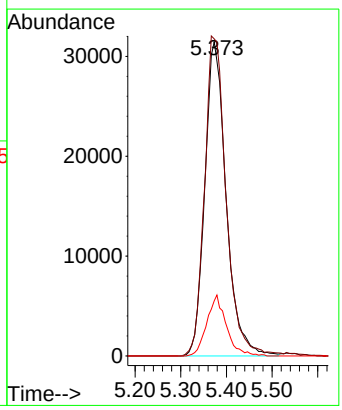


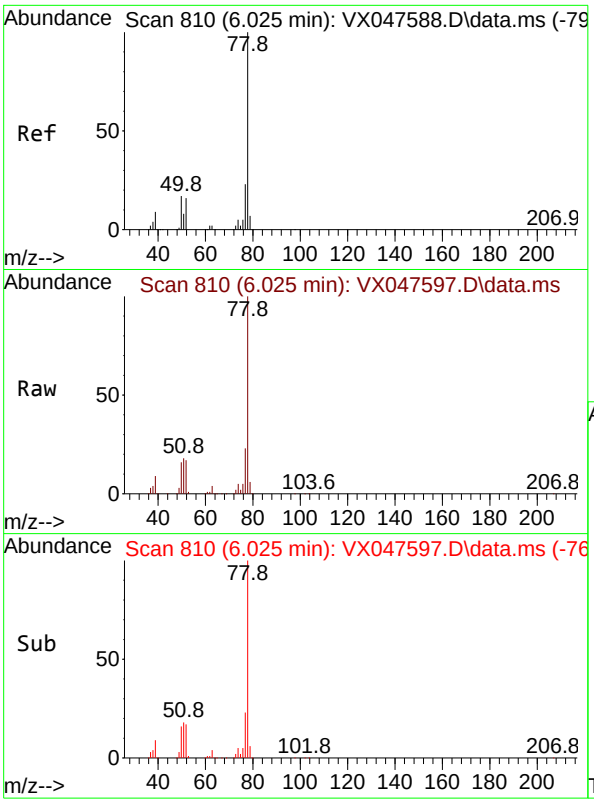


#35
Dibromofluoromethane
Concen: 49.274 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:113 Resp: 102057

Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.8	14.2	21.4

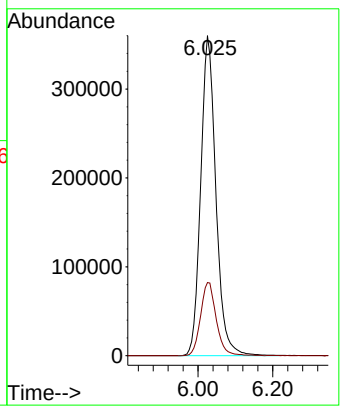




#40
Benzene
Concen: 110.264 ug/l
RT: 6.025 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 78 Resp: 101358

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.8	28.2



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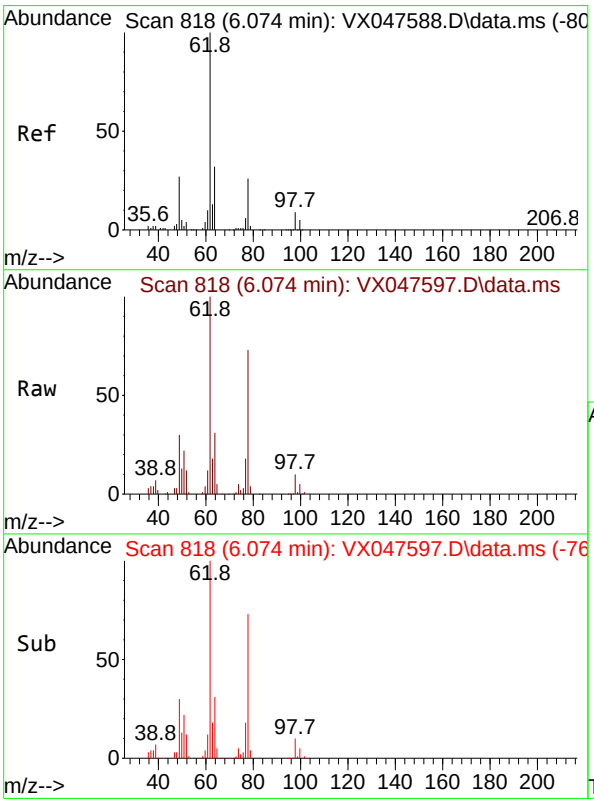
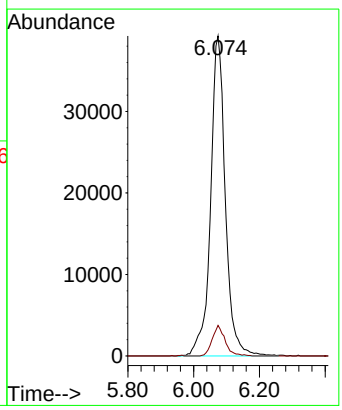
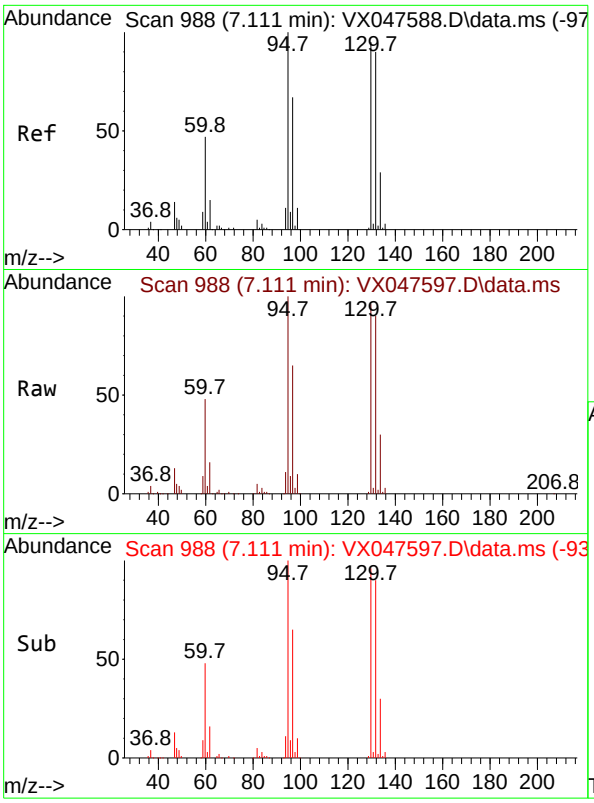


#42
1,2-Dichloroethane
Concen: 35.011 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 62 Resp: 122452

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0





#44
Trichloroethene
Concen: 90.421 ug/l
RT: 7.111 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:130 Resp: 20094

Ion	Ratio	Lower	Upper
130	100		
95	104.0	0.0	210.8

Instrument :
MSVOA_X
ClientSampleId :
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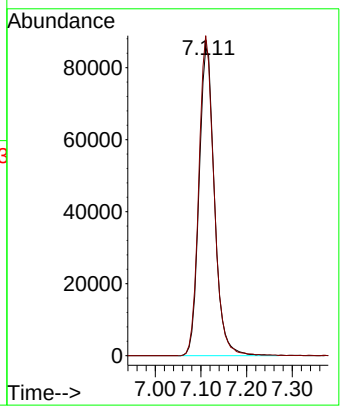
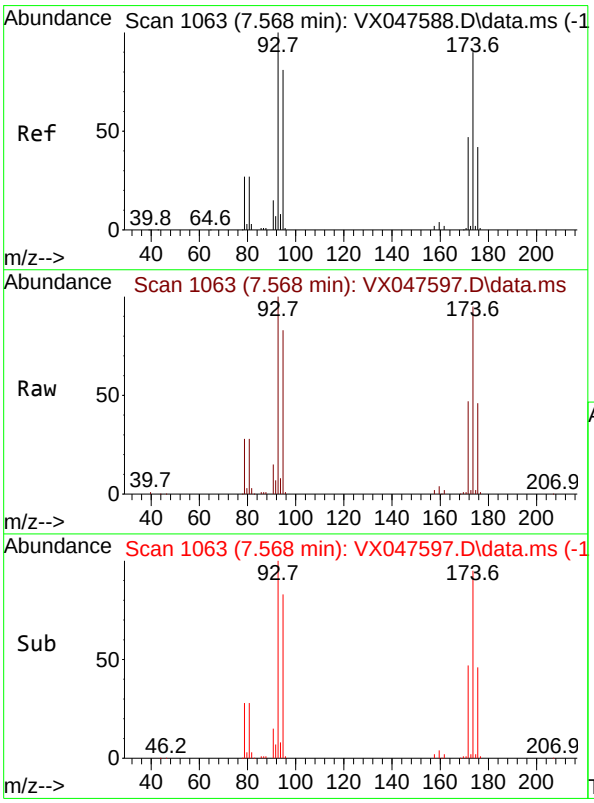
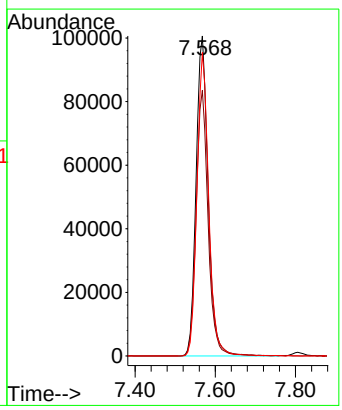


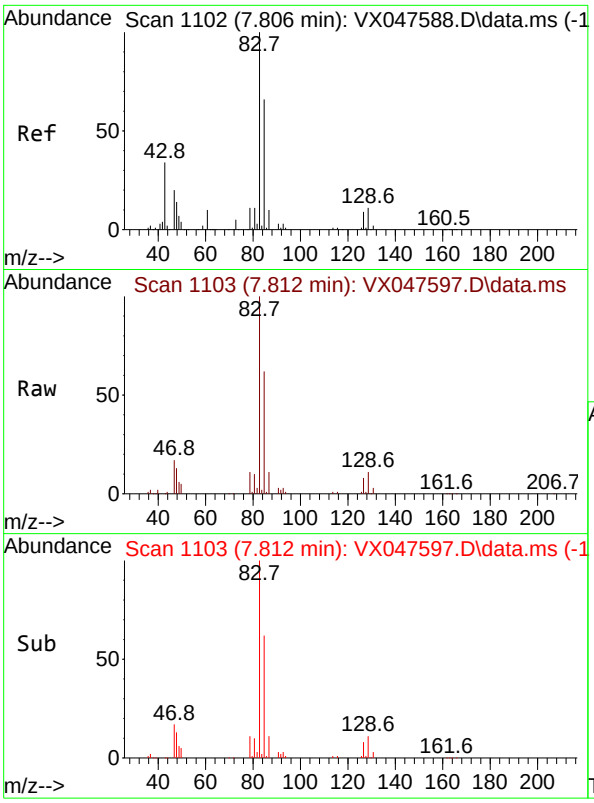


#46
Dibromomethane
Concen: 123.246 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 93 Resp: 211104

Ion	Ratio	Lower	Upper
93	100		
95	81.8	65.0	97.6
174	92.1	71.6	107.4

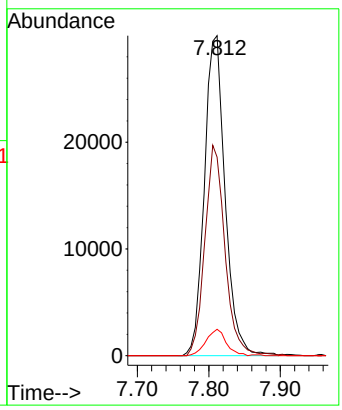




#47
Bromodichloromethane
Concen: 17.059 ug/l
RT: 7.812 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 83 Resp: 6029

Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.5	78.7
127	8.3	6.9	10.3



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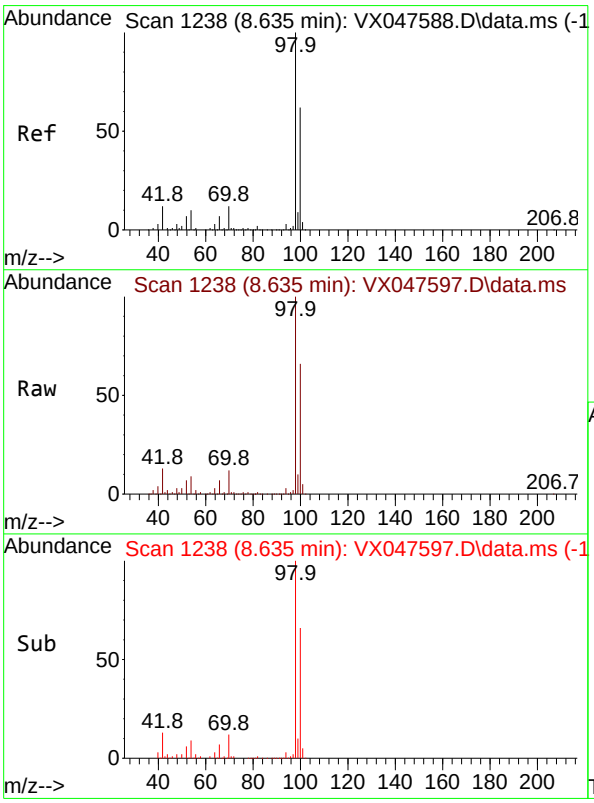
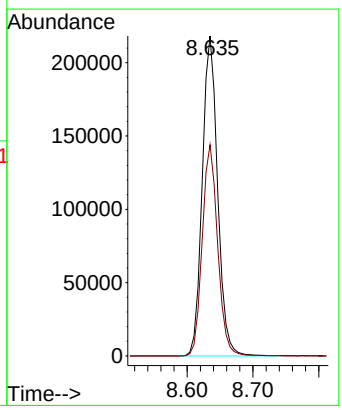
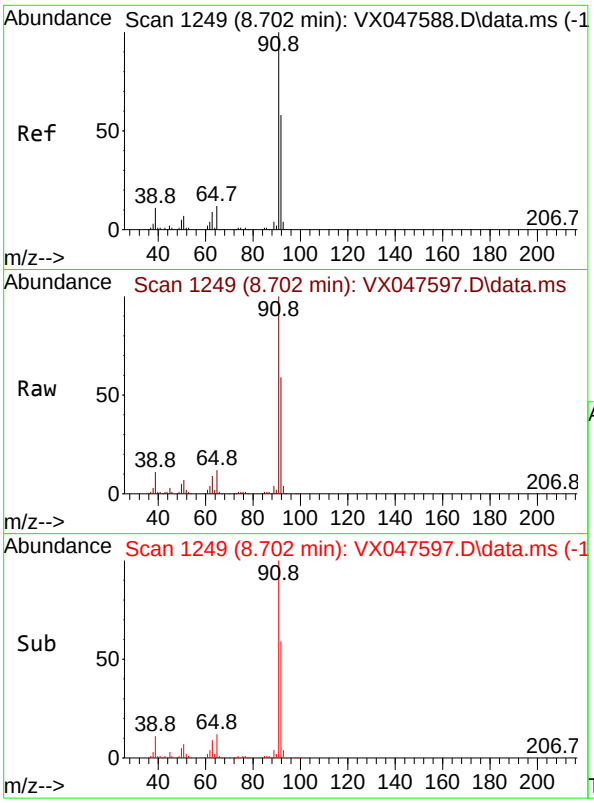


#50
Toluene-d8
Concen: 49.507 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 98 Resp: 354807

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

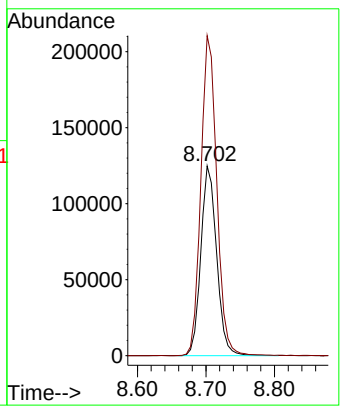




#52
Toluene
Concen: 35.414 ug/l
RT: 8.702 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 92 Resp: 20056

Ion	Ratio	Lower	Upper
92	100		
91	170.2	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

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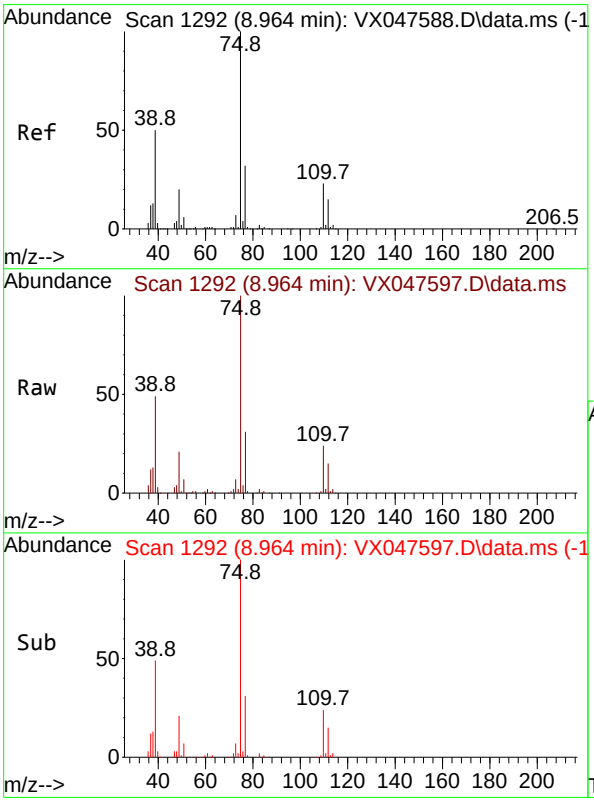
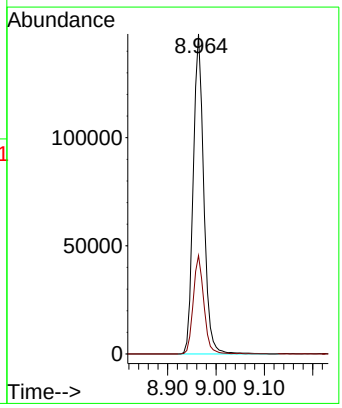
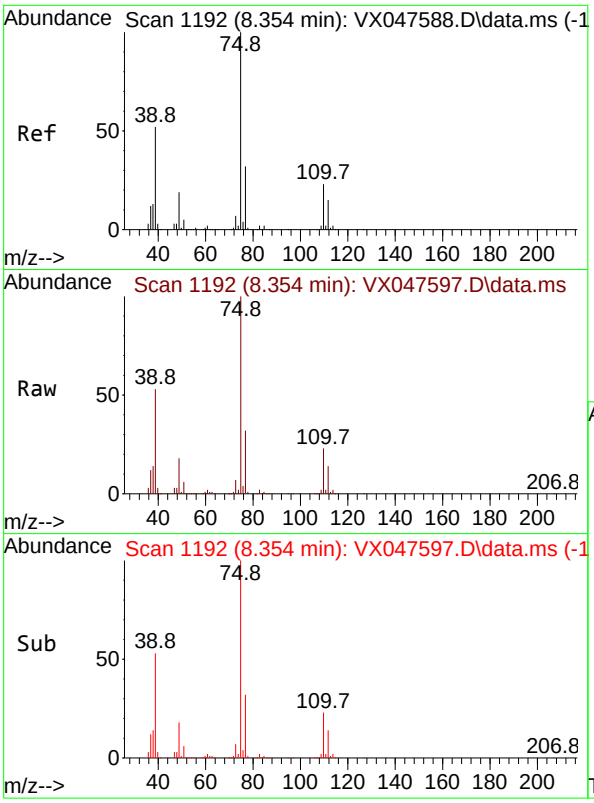


#53
t-1,3-Dichloropropene
Concen: 62.030 ug/l
RT: 8.964 min Scan# 1292
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 75 Resp: 223638

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.2

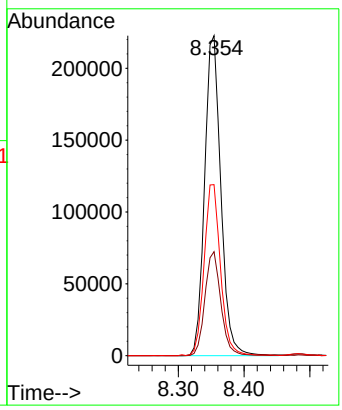




#54
cis-1,3-Dichloropropene
Concen: 99.292 ug/l
RT: 8.354 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 75 Resp: 38262

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.8	38.6
39	53.3	41.4	62.2



Instrument :
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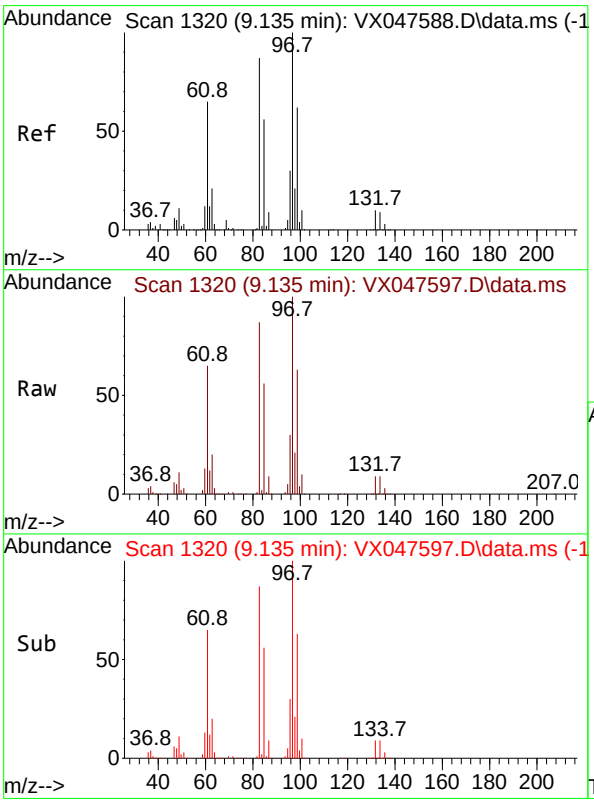
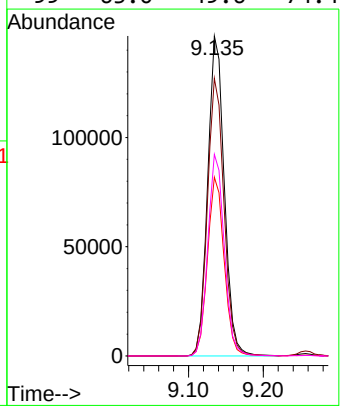
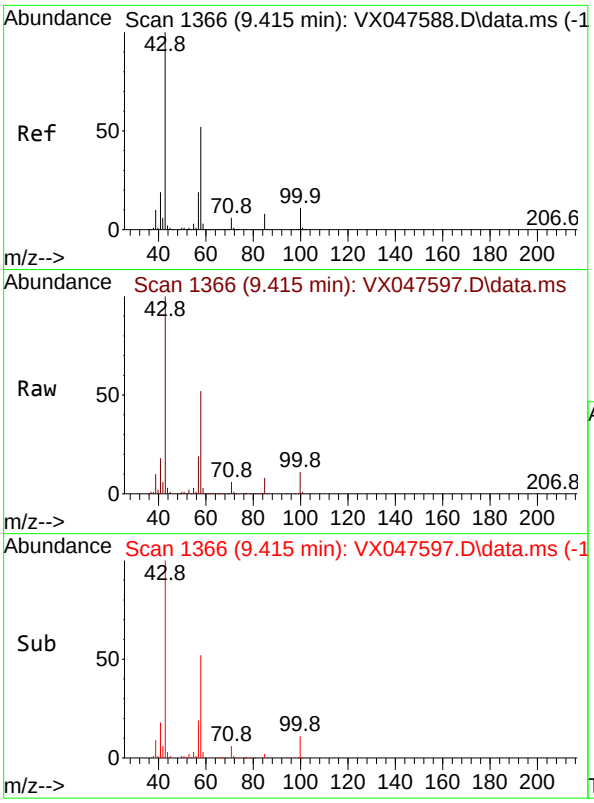


#55
1,1,2-Trichloroethane
Concen: 103.436 ug/l
RT: 9.135 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 97 Resp: 225879

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.6	104.4
85	55.9	45.0	67.6
99	63.0	49.6	74.4





#59
2-Hexanone
Concen: 108.592 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 43 Resp: 22981

Ion	Ratio	Lower	Upper
43	100		
58	51.9	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

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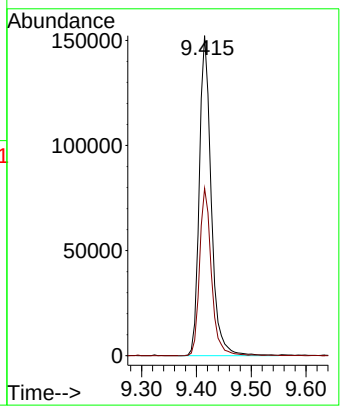
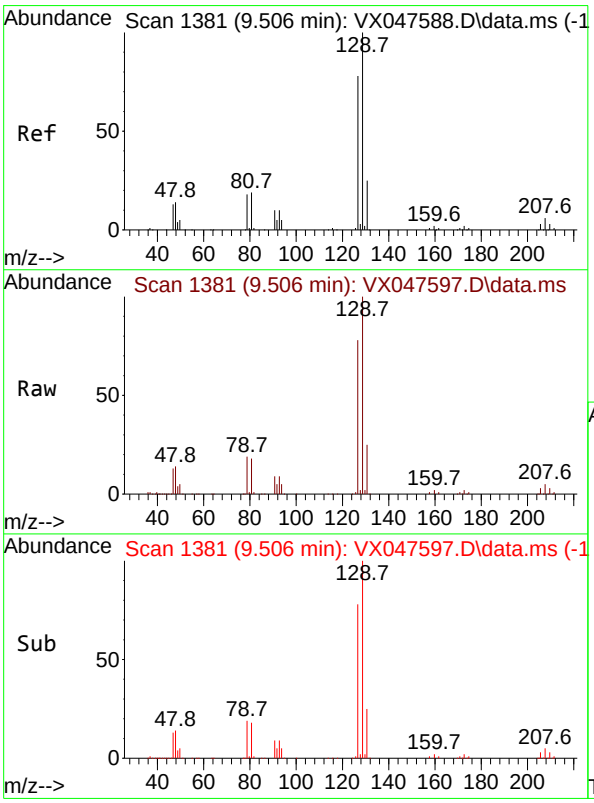
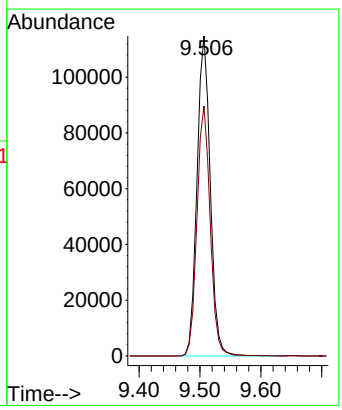


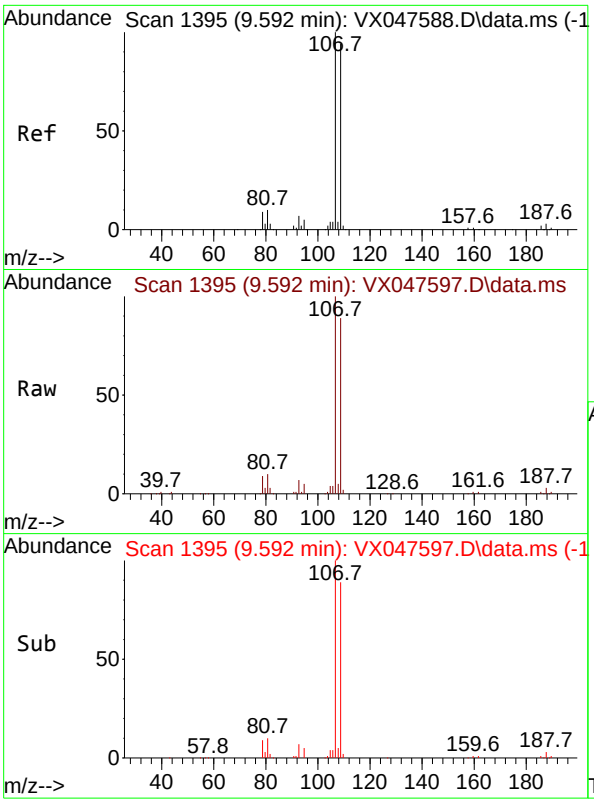


#60
Dibromochloromethane
Concen: 68.892 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:129 Resp: 173345

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.4	115.2

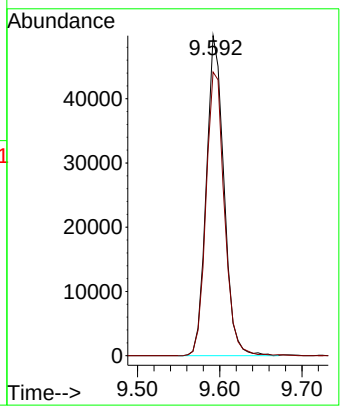




#61
1,2-Dibromoethane
Concen: 33.321 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:107 Resp: 7411

Ion	Ratio	Lower	Upper
107	100		
109	92.4	75.3	112.9



Instrument :
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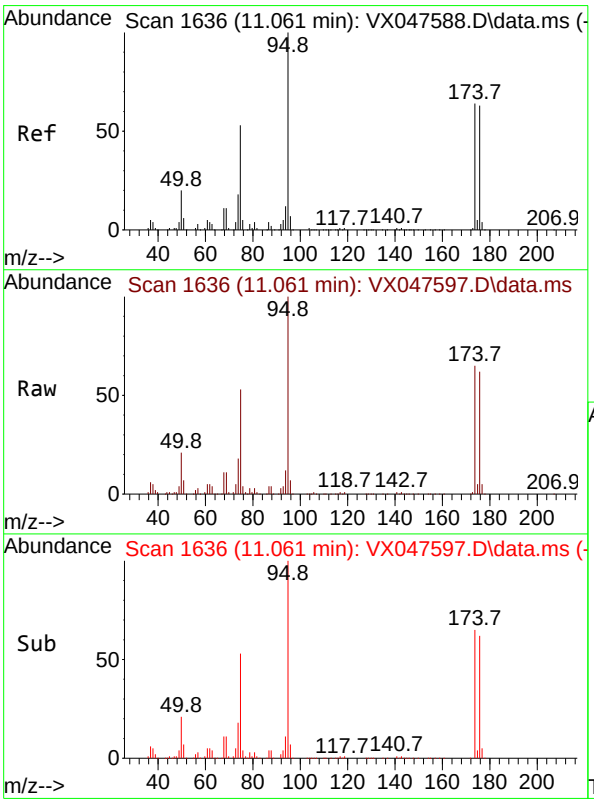
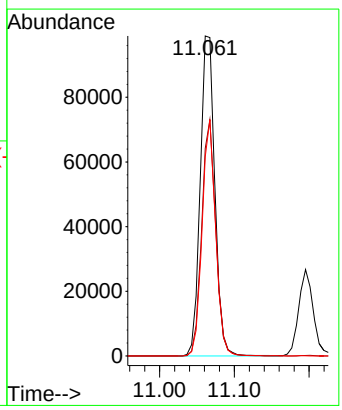
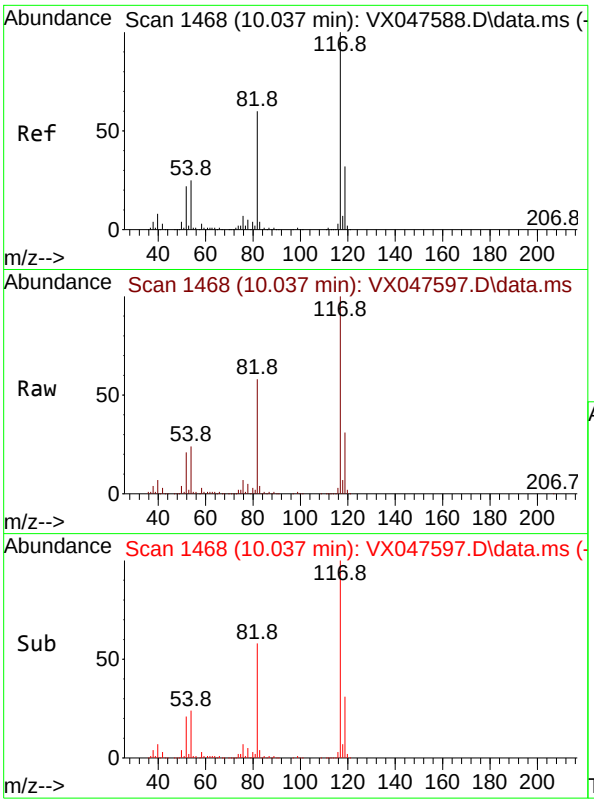


#62
4-Bromofluorobenzene
Concen: 49.286 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 95 Resp: 134055

Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.6
176	68.5	0.0	138.4

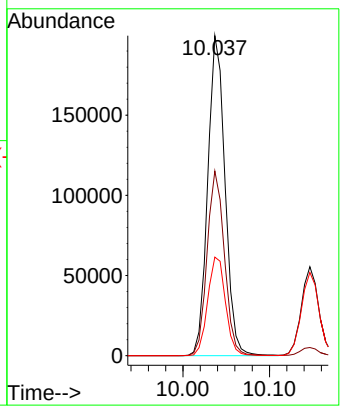




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:117 Resp: 27667

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	30.8	25.2	37.8



Instrument :
MSVOA_X
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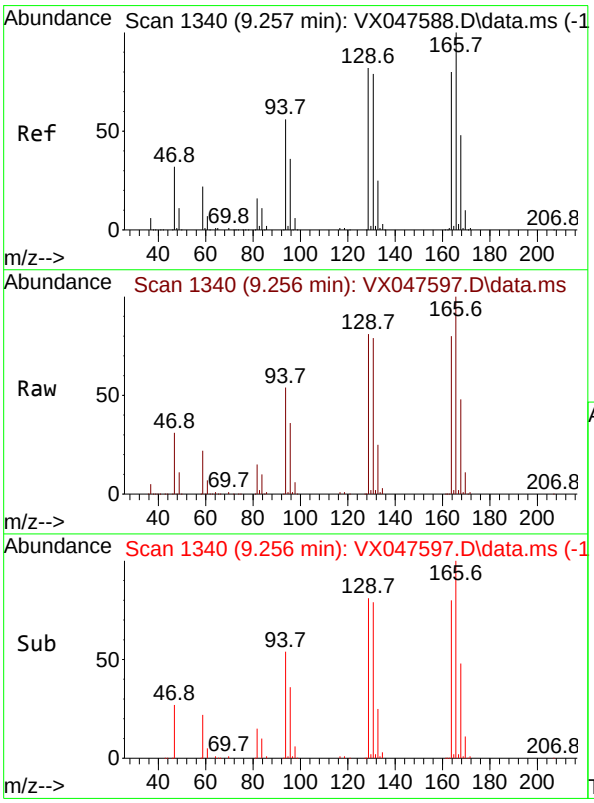
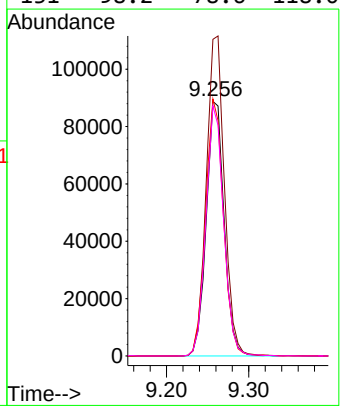
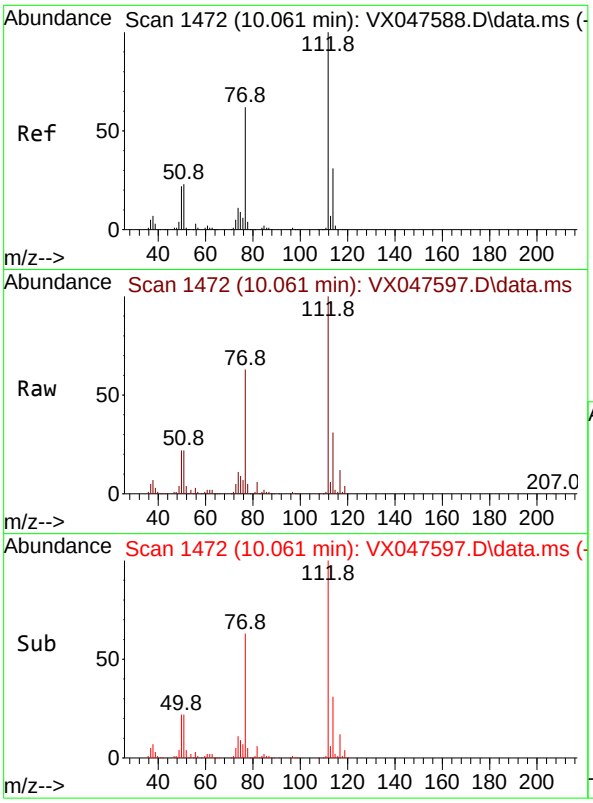


#64
Tetrachloroethene
Concen: 74.017 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:164 Resp: 133498

Ion	Ratio	Lower	Upper
164	100		
166	124.4	100.2	150.2
129	101.0	81.8	122.6
131	98.2	78.6	118.0

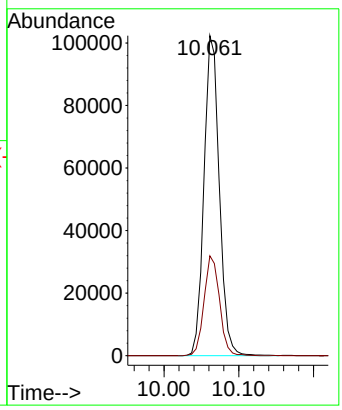




#65
Chlorobenzene
Concen: 23.140 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:112 Resp: 14544

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
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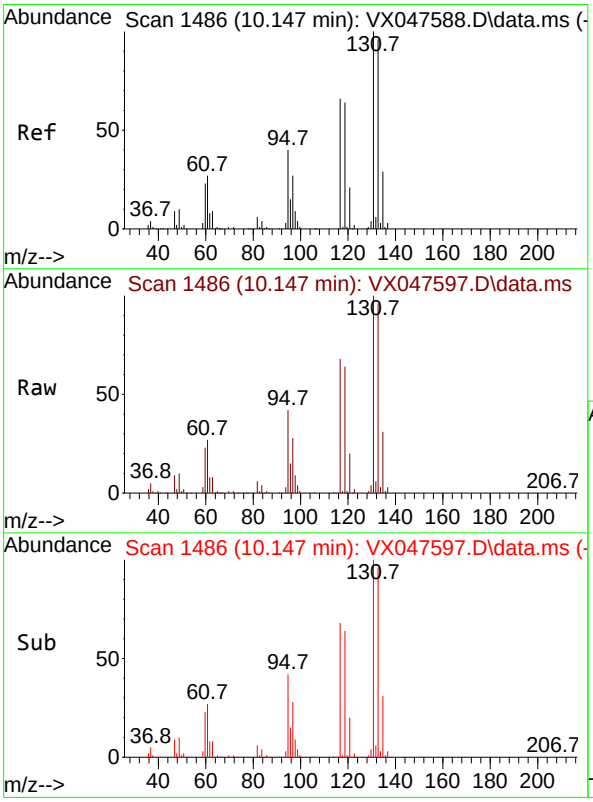
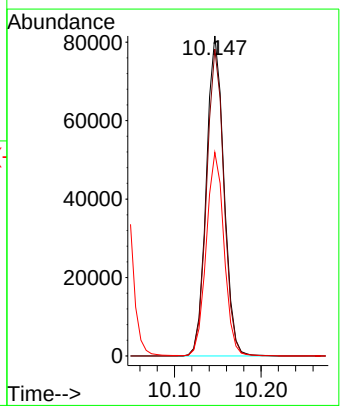
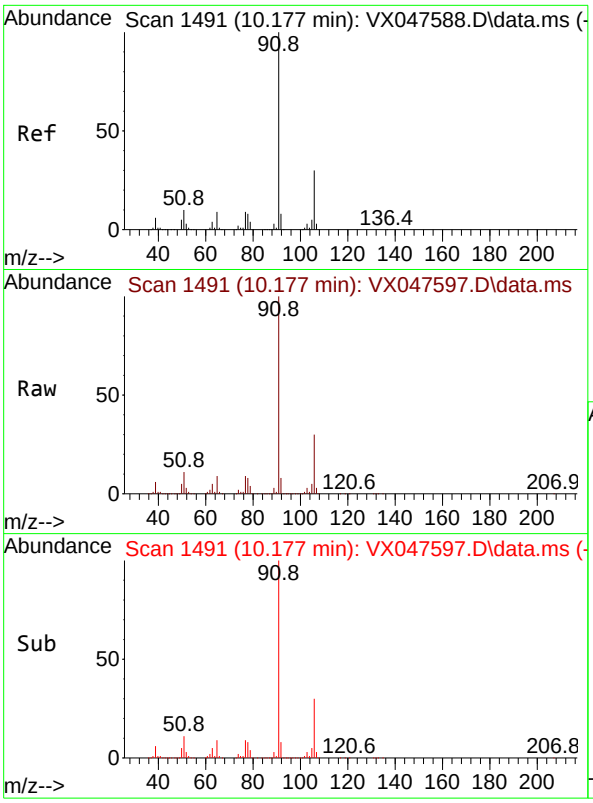


#66
1,1,1,2-Tetrachloroethane
Concen: 53.051 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:131 Resp: 115065

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	142.0
119	64.3	32.0	96.0





#67
Ethyl Benzene
Concen: 48.634 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 91 Resp: 52744

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.3	36.5

Instrument :
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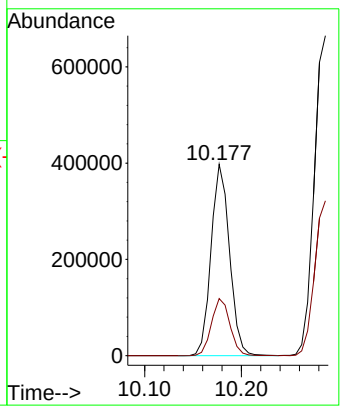
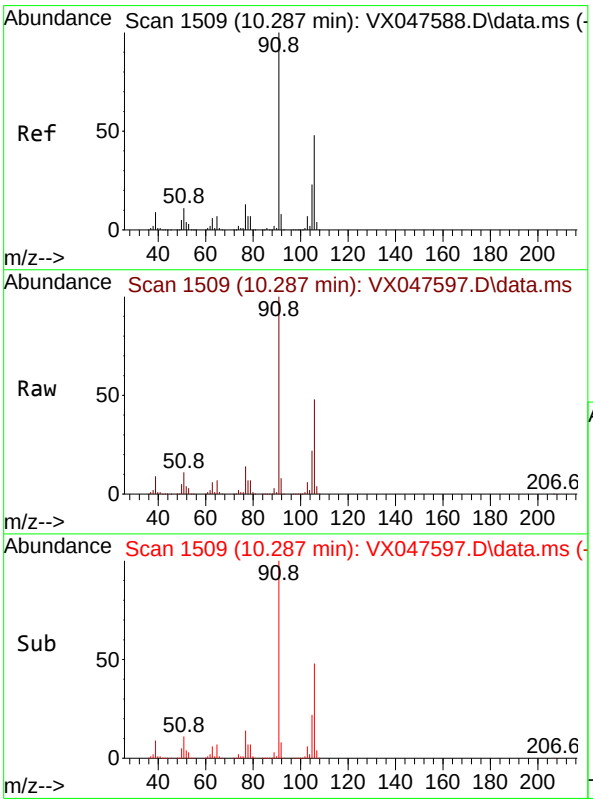
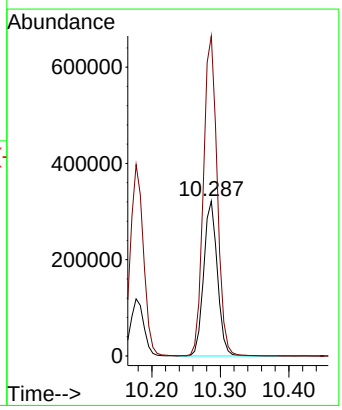


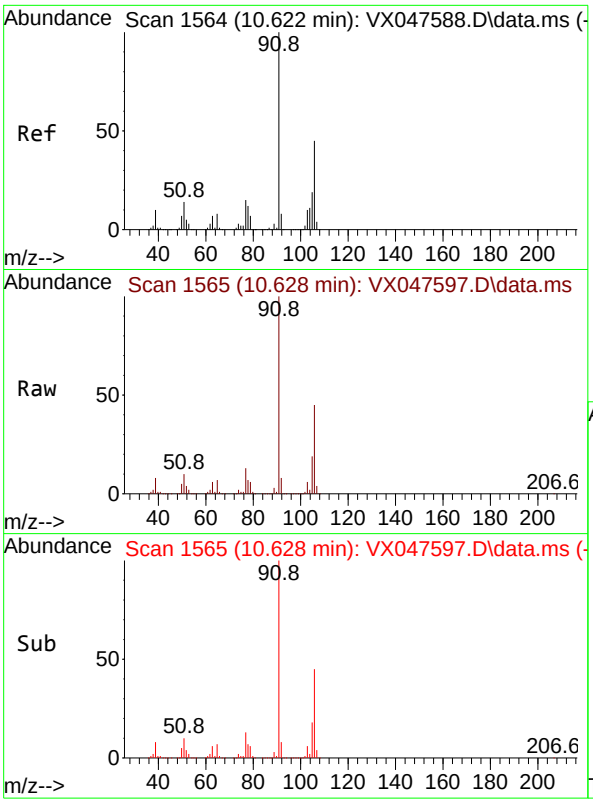


#68
m/p-Xylenes
Concen: 110.638 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:106 Resp: 446608

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8





#69
o-Xylene
Concen: 142.992 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:106 Resp: 55829

Ion	Ratio	Lower	Upper
106	100		
91	223.1	111.1	333.4

Instrument :
MSVOA_X
ClientSampleId :
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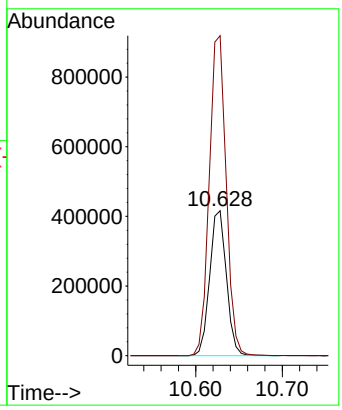
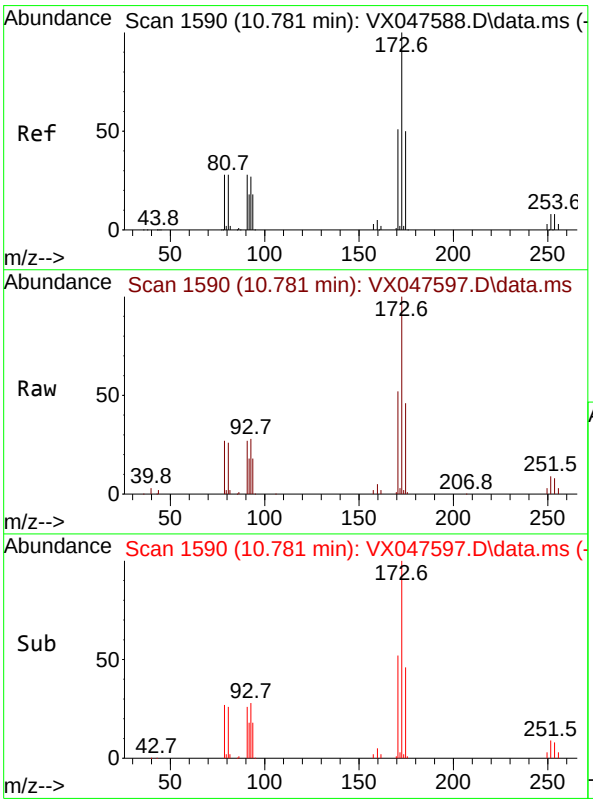
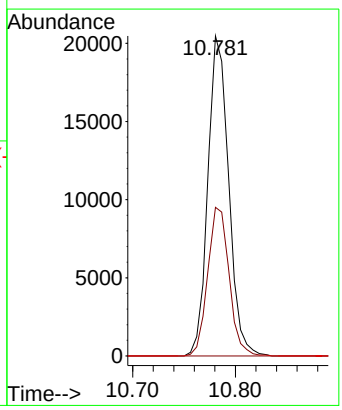


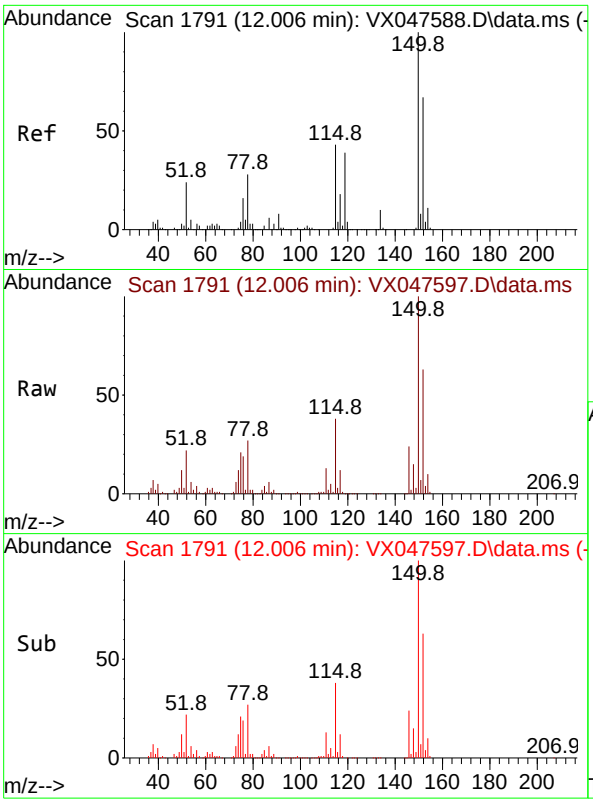


#71
Bromoform
Concen: 17.766 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:173 Resp: 28772

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.9	74.6
254	0.0	0.1	0.1#

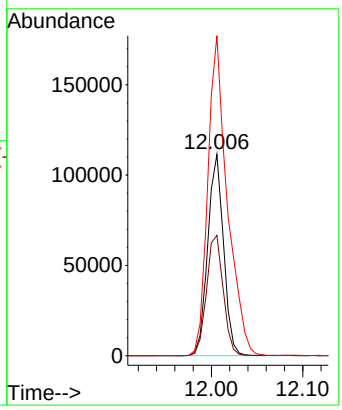




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:152 Resp: 13395

Ion	Ratio	Lower	Upper
152	100		
115	63.0	44.9	134.5
150	195.4	0.0	352.0



Instrument :
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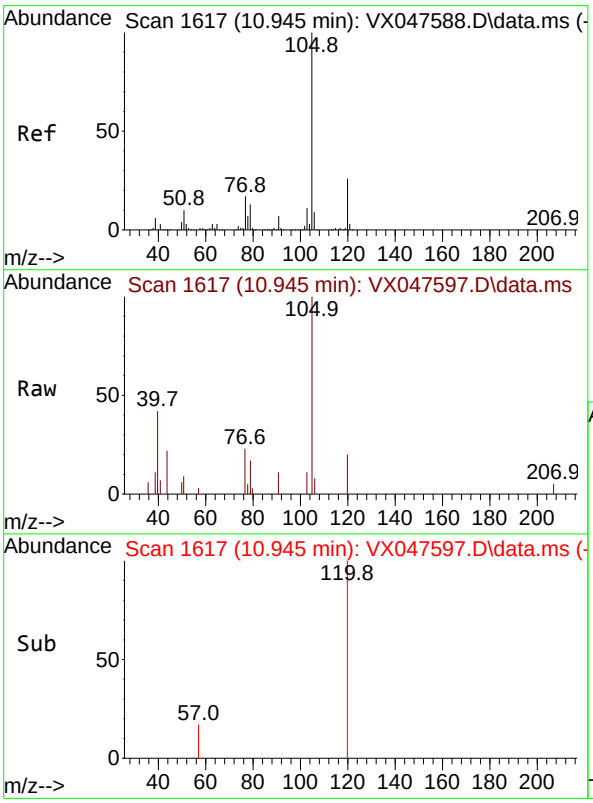
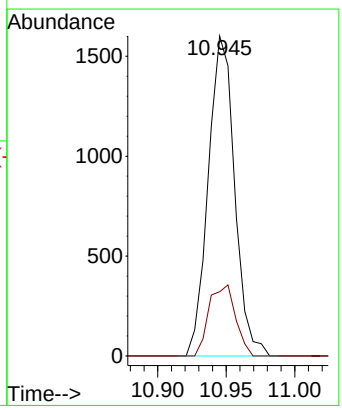
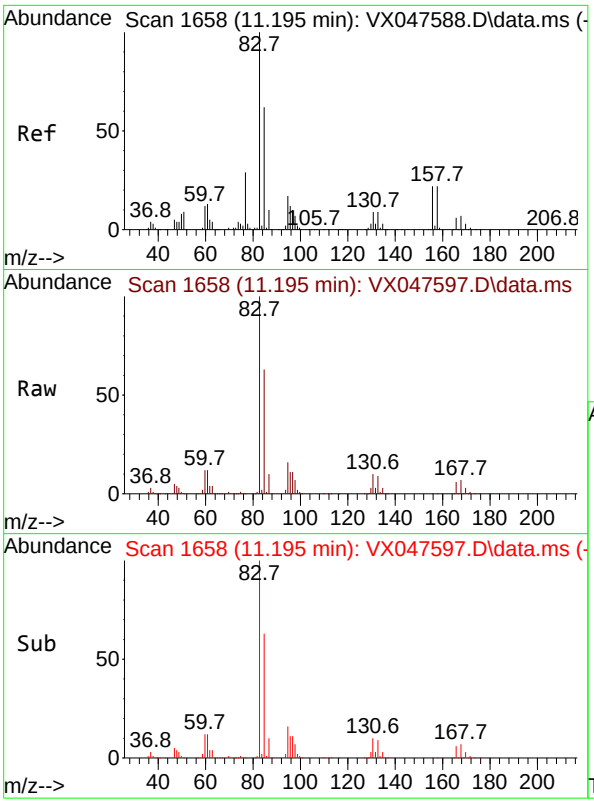


#73
Isopropylbenzene
Concen: 0.211 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:105 Resp: 2144

Ion	Ratio	Lower	Upper
105	100		
120	22.2	12.8	38.4

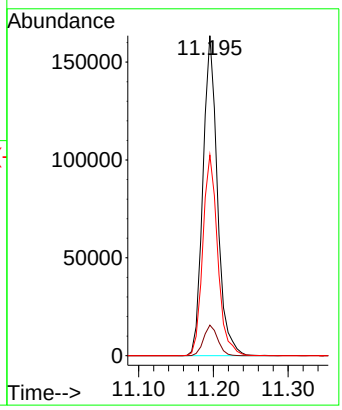




#75
1,1,2,2-Tetrachloroethane
Concen: 71.432 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 83 Resp: 22008

Ion	Ratio	Lower	Upper
83	100		
131	9.3	5.0	14.9
85	64.4	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
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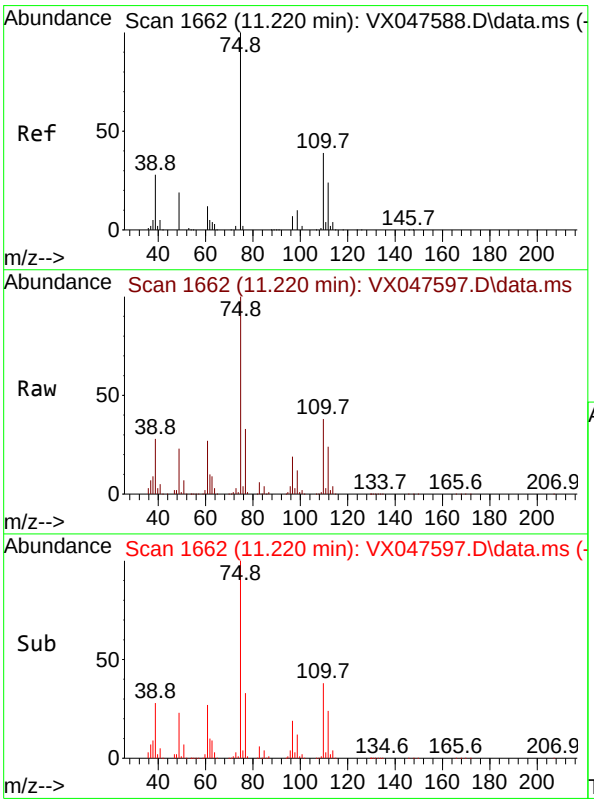
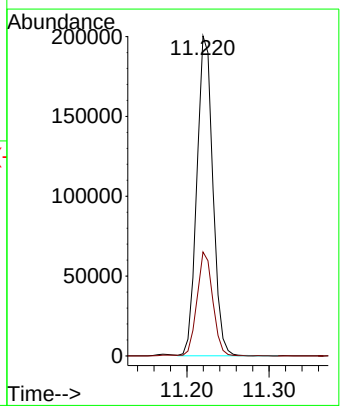
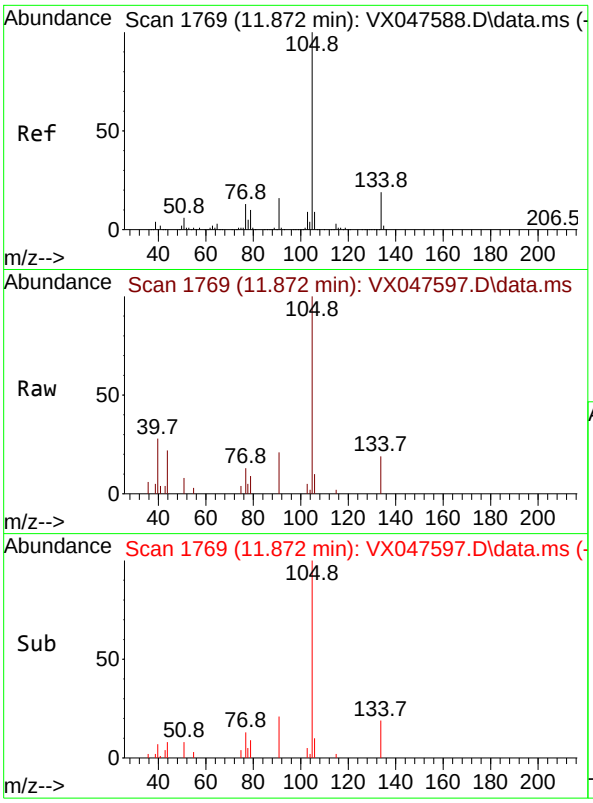


#76
1,2,3-Trichloropropane
Concen: 99.654 ug/l
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 75 Resp: 270268

Ion	Ratio	Lower	Upper
75	100		
77	32.0	18.8	56.4

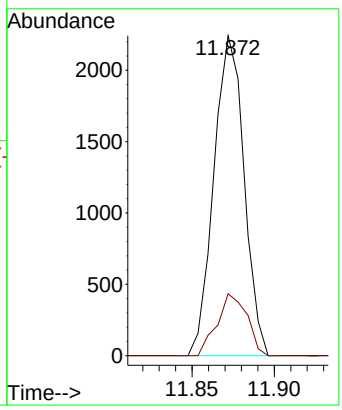




#85
sec-Butylbenzene
Concen: 0.281 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:105 Resp: 286

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
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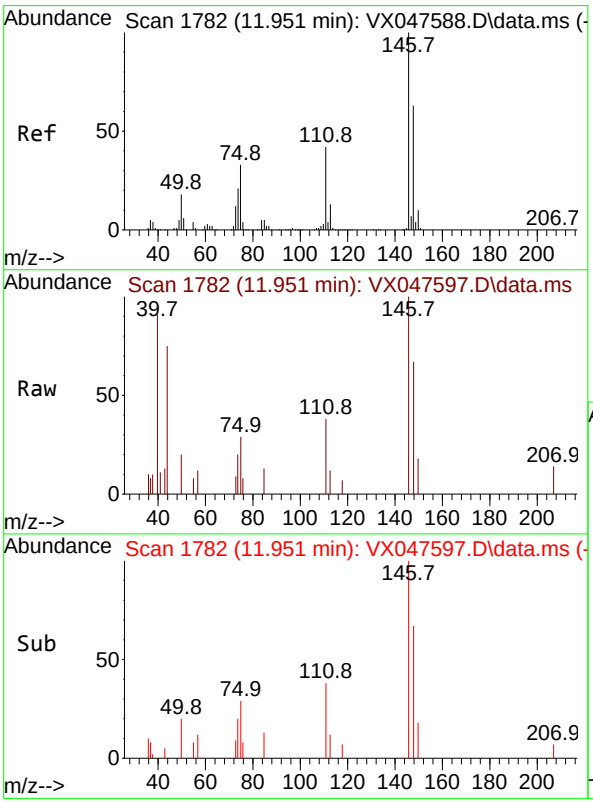
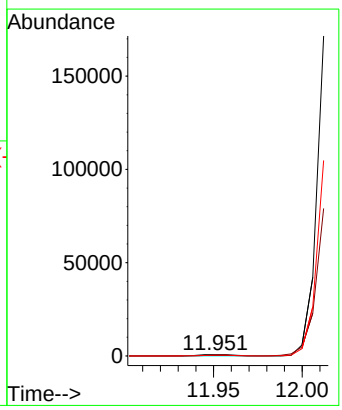
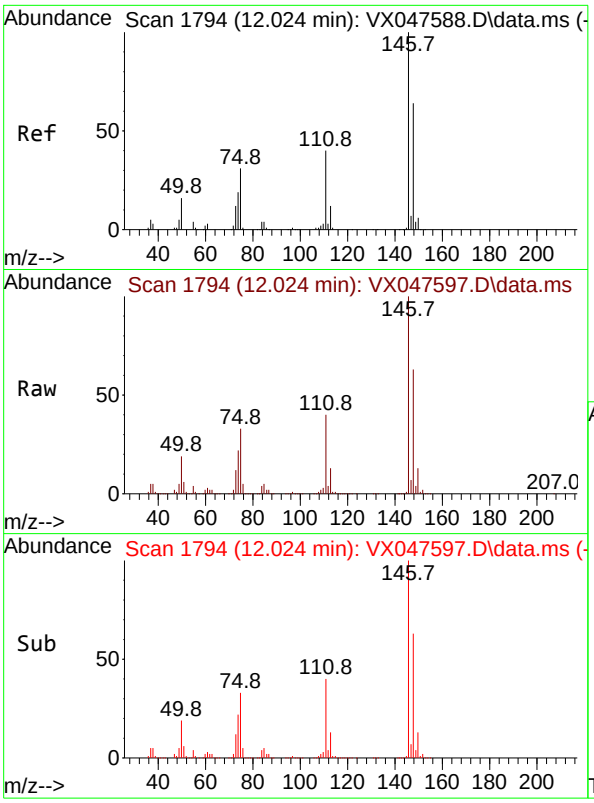


#87
1,3-Dichlorobenzene
Concen: 0.223 ug/l m
RT: 11.951 min Scan# 1782
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:146 Resp: 1037

Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.5	64.5#
148	0.0	32.0	96.0#

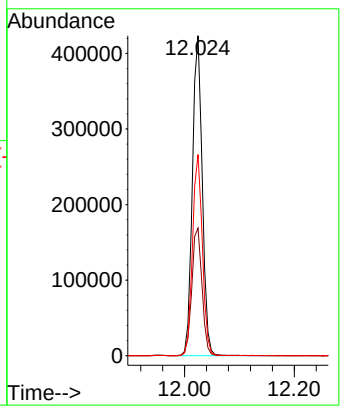




#88
1,4-Dichlorobenzene
Concen: 111.499 ug/l
RT: 12.024 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:146 Resp: 53312

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.8	62.4
148	62.8	31.7	95.1



Instrument :
MSVOA_X
ClientSampleId :
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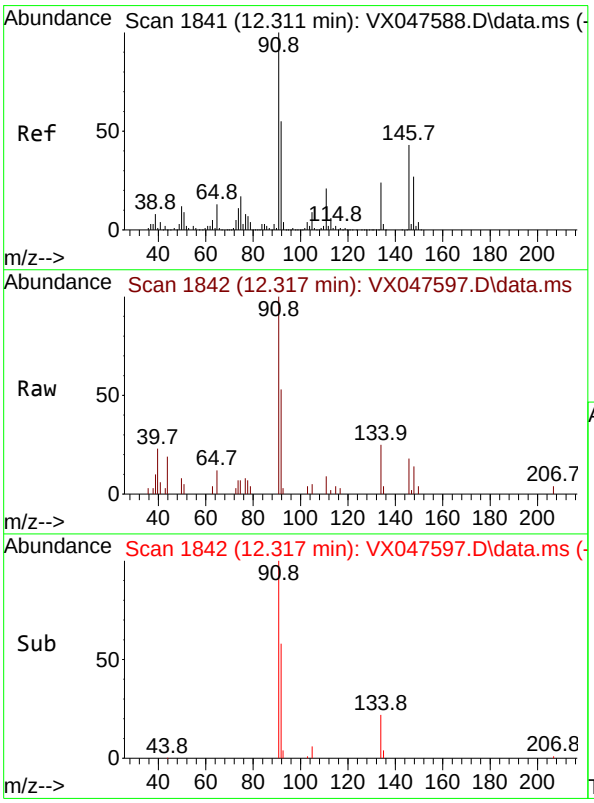
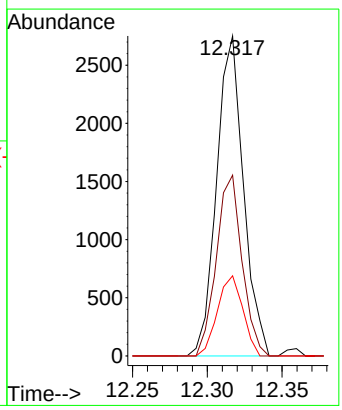
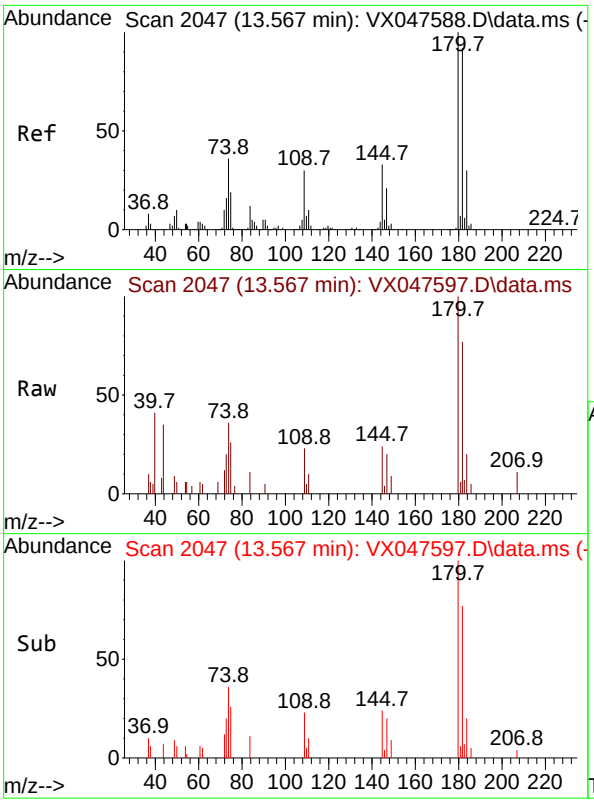


#89
n-Butylbenzene
Concen: 0.431 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion: 91 Resp: 3435

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.7
134	23.6	12.6	37.8

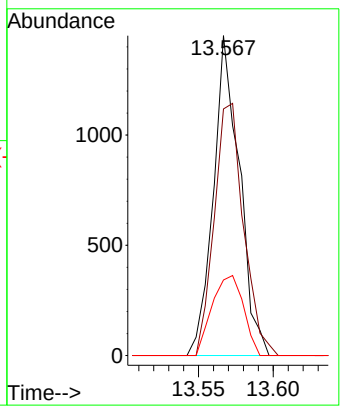




#93
1,2,4-Trichlorobenzene
Concen: 0.609 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:180 Resp: 175

Ion	Ratio	Lower	Upper
180	100		
182	88.7	46.6	139.8
145	30.1	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
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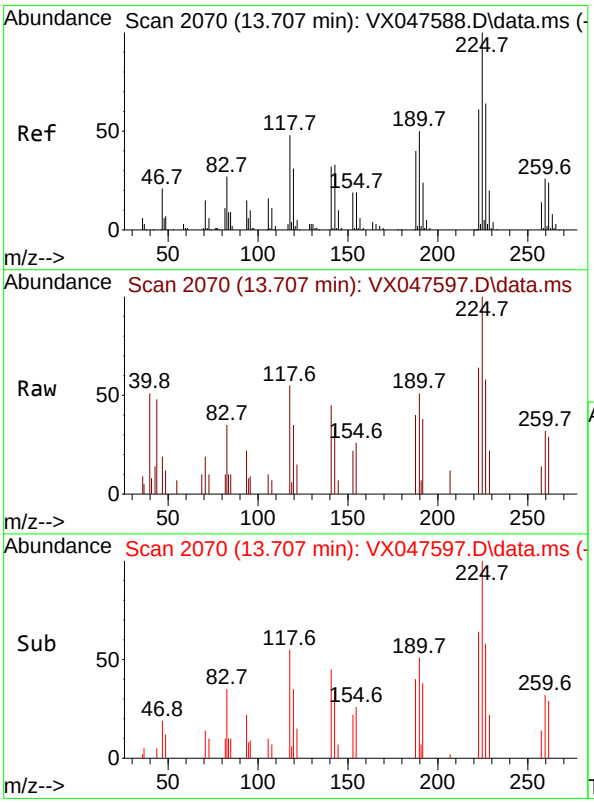
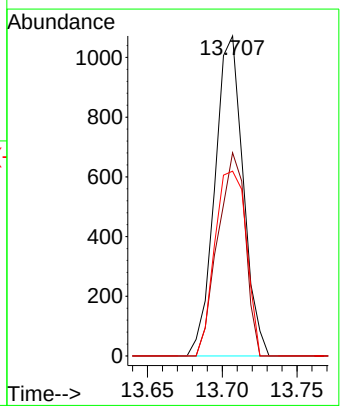
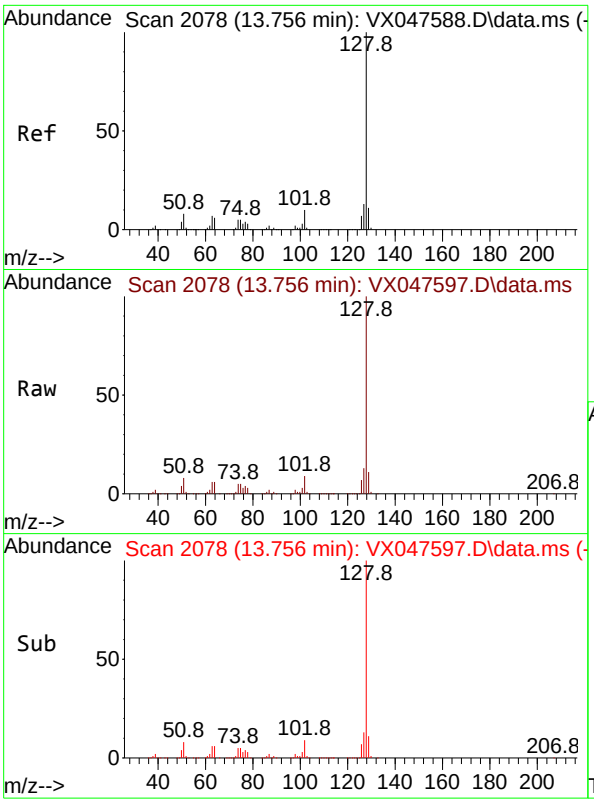


#94
Hexachlorobutadiene
Concen: 1.442 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:225 Resp: 1413

Ion	Ratio	Lower	Upper
225	100		
223	61.5	31.7	95.1
227	64.2	32.0	96.0





#95
Naphthalene
Concen: 78.440 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Instrument :
MSVOA_X
ClientSampleId :
WP0925-PT-VOA-WP

Tgt Ion:128 Resp: 68899

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

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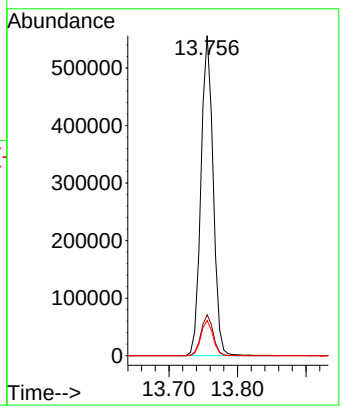
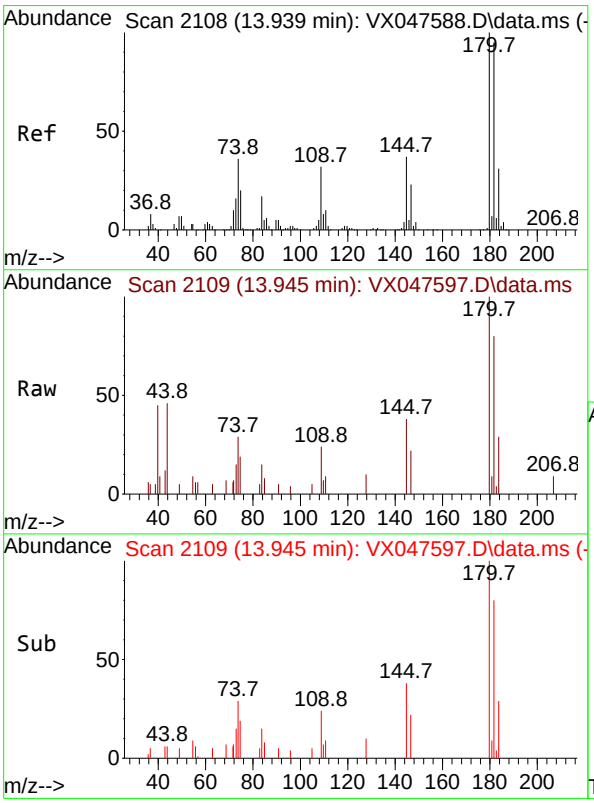
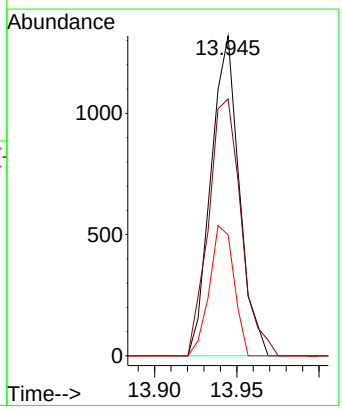




#96
1,2,3-Trichlorobenzene
Concen: 0.588 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047597.D
Acq: 16 Sep 2025 16:07

Tgt Ion:180 Resp: 1578

Ion	Ratio	Lower	Upper
180	100		
182	92.3	47.6	142.8
145	35.5	17.9	53.7



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG No.: Q3015

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

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

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10
Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.9
Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.9
Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.2
Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15
Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.4
Trichlorofluoromethane	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.5
1,1,2-Trichlorotrifluoroethane	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.2
1,1-Dichloroethene	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.7
Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.6
Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.8
Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.7
Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.8
Methyl tert-butyl Ether	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.5
Methylene Chloride	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.5
trans-1,2-Dichloroethene	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.3
Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.4
1,1-Dichloroethane	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.8
2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	9
Carbon Tetrachloride	0.482	0.574	0.555	0.539	0.526	0.518	0.532	6
2,2-Dichloropropane	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.1
cis-1,2-Dichloroethene	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.4
Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.7
1,1,1-Trichloroethane	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.3
1,1-Dichloropropene	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.2
Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.1
1,2-Dichloroethane	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.8
Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.9
1,2-Dichloropropane	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.4
Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.5

* 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.

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: ALLI03

Lab Code: ACE SDG No.: Q3015

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

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

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Bromodichloromethane	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.7
4-Methyl-2-Pentanone	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.3
Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.2
t-1,3-Dichloropropene	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.3
cis-1,3-Dichloropropene	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.7
1,1,2-Trichloroethane	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.1
1,3-Dichloropropane	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.5
2-Chloroethyl Vinyl ether	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.7
2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.8
Dibromochloromethane	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.5
1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.1
Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6
Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.2
1,1,1,2-Tetrachloroethane	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.3
Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.6
m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.8
o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.1
Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.7
Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.4
Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.9
1,1,2,2-Tetrachloroethane	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.2
1,2,3-Trichloropropane	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.1
Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.4
n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.2
2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.9
1,3,5-Trimethylbenzene	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.6
4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.7
1,2,4-Trimethylbenzene	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.2
sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.1
p-Isopropyltoluene	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.8

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG No.: Q3015

Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01

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

LAB FILE ID: RRF001 = VX047585.D RRF005 = VX047586.D RRF020 = VX047587.D
RRF050 = VX047588.D RRF100 = VX047589.D RRF150 = VX047590.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,3-Dichlorobenzene	1.462	1.800	1.829	1.817	1.768	1.758	1.739	8
1,4-Dichlorobenzene	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.5
n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.1
1,2-Dichlorobenzene	1.359	1.691	1.757	1.746	1.696	1.692	1.657	9
1,2-Dibromo-3-Chloropropane	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.1
1,2,4-Trichlorobenzene	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.3
Hexachlorobutadiene	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.5
Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.5
1,2,3-Trichlorobenzene	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.7
1,2-Dichloroethane-d4		0.884	0.647	0.770	0.815	0.863	0.796	11.8
Dibromofluoromethane		0.356	0.266	0.331	0.355	0.368	0.335	12.3
Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.1
4-Bromofluorobenzene		0.478	0.360	0.427	0.452	0.484	0.440	11.4

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

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025
Response Via : Initial Calibration

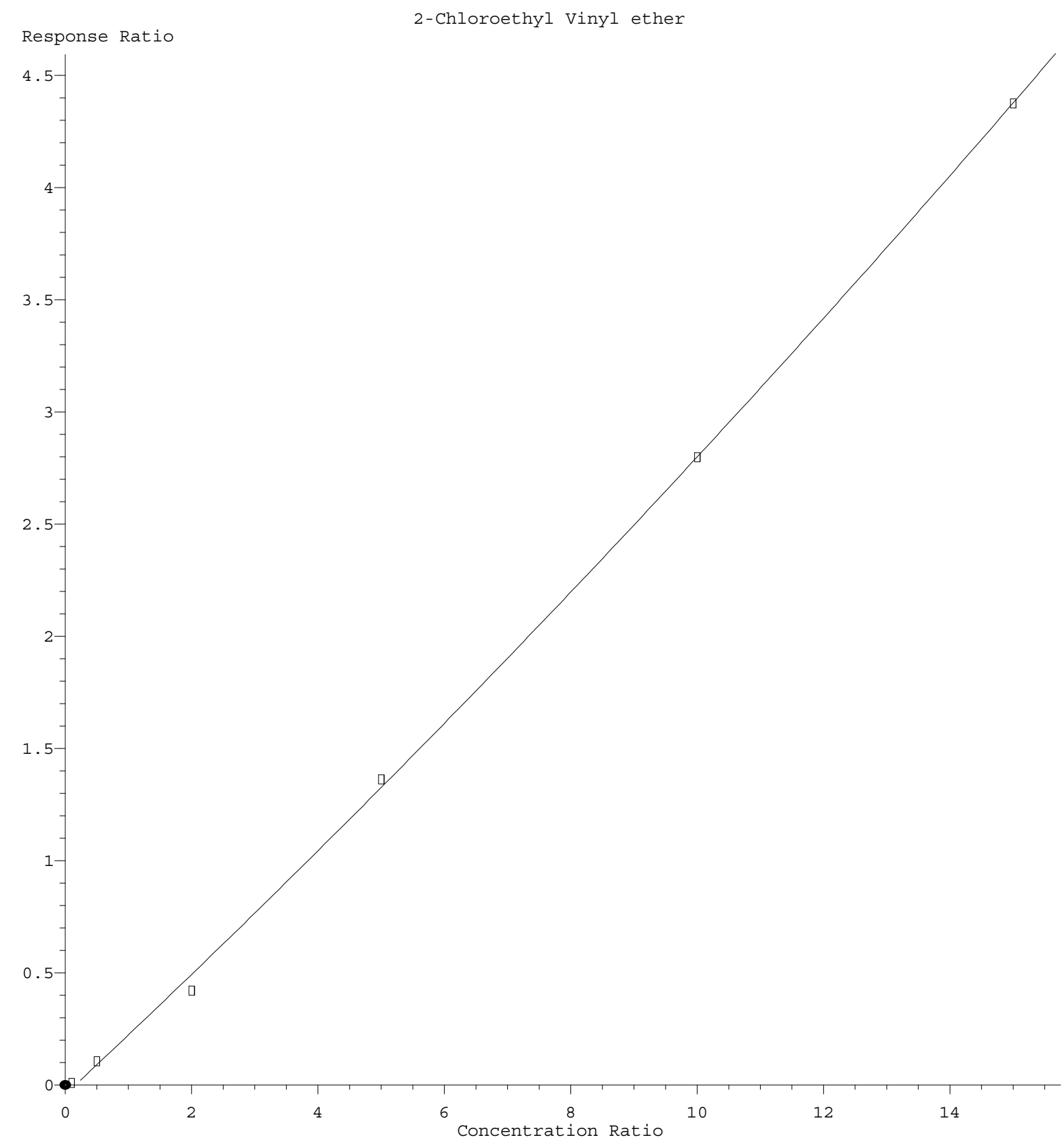
Calibration Files
1 =VX047585.D 5 =VX047586.D 20 =VX047587.D 50 =VX047588.D 100 =VX047589.D 150 =VX047590.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10.01
3)	P	Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.92
4)	C	Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.87#
5)	T	Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15.01
6)	T	Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.36
7)	T	Trichlorofluor...	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.49
8)	T	Diethyl Ether	0.372	0.405	0.413	0.409	0.420	0.409	0.405	4.17
9)	T	1,1,2-Trichlor...	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.21
10)	T	Methyl Iodide		0.865	0.922	0.911	0.925	0.886	0.902	2.85
11)	T	Tert butyl alc...		0.085	0.086	0.089	0.090	0.094	0.089	4.18
12)	CM	1,1-Dichloroet...	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.71#
13)	T	Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.59
14)	T	Allyl chloride	1.194	1.267	1.249	1.211	1.226	1.207	1.226	2.25
15)	T	Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.82
16)	T	Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.67
17)	T	Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.80
18)	T	Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.39
19)	T	Methyl tert-bu...	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.47
20)	T	Methylene Chlo...	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.45
21)	T	trans-1,2-Dich...	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.28
22)	T	Diisopropyl ether	1.976	2.531	2.487	2.477	2.398	2.384	2.376	8.56
23)	T	Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.41
24)	P	1,1-Dichloroet...	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.81
25)	T	2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	8.98
26)	T	2,2-Dichloropr...	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.06
27)	T	cis-1,2-Dichlo...	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.41
28)	T	Bromochloromet...	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.18
29)	T	Tetrahydrofuran	0.211	0.269	0.272	0.275	0.262	0.268	0.260	9.24
30)	C	Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.72#
31)	T	Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.08
32)	T	1,1,1-Trichlor...	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.33
33)	S	1,2-Dichloroet...		0.884	0.647	0.770	0.815	0.863	0.796	11.82
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.356	0.266	0.331	0.355	0.368	0.335	12.25
36)	T	1,1-Dichloropr...	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.15
37)	T	Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.21
38)	T	Carbon Tetrach...	0.482	0.574	0.555	0.539	0.526	0.518	0.532	5.99
39)	T	Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.60
40)	TM	Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.11
41)	T	Methacrylonitrile	0.236	0.264	0.286	0.286	0.282	0.271	0.271	7.13
42)	TM	1,2-Dichloroet...	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.76
43)	T	Isopropyl Acetate	0.751	0.882	0.889	0.897	0.865	0.879	0.860	6.34
44)	TM	Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.92
45)	C	1,2-Dichloropr...	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.37#
46)	T	Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.54
47)	T	Bromodichlorom...	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.65
48)	T	Methyl methacr...	0.372	0.421	0.447	0.449	0.436	0.446	0.429	6.97
49)	T	1,4-Dioxane	0.003	0.004	0.004	0.005	0.005	0.005	0.004	19.43
50)	S	Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.10
51)	T	4-Methyl-2-Pen...	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.28
52)	CM	Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.22#
53)	T	t-1,3-Dichloro...	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.33
54)	T	cis-1,3-Dichlo...	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.74
55)	T	1,1,2-Trichlor...	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.10
56)	T	Ethyl methacry...	0.407	0.563	0.587	0.599	0.580	0.595	0.555	13.25

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X091625W.M

57)	T	1,3-Dichloropr...	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.51
58)	T	2-Chloroethyl ...	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.65
59)	T	2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.82
60)	T	Dibromochlorom...	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.49
61)	T	1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.10
62)	S	4-Bromofluorob...		0.478	0.360	0.427	0.452	0.484	0.440	11.42
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6.03
65)	PM	Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.18
66)	T	1,1,1,2-Tetrac...	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.26
67)	C	Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.57#
68)	T	m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.77
69)	T	o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.13
70)	T	Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.70
71)	P	Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.37
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.94
74)	T	N-amyl acetate	1.277	1.726	1.851	1.862	1.834	1.850	1.733	13.21
75)	P	1,1,2,2-Tetrac...	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.16
76)	T	1,2,3-Trichlor...	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.13
77)	T	Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.38
78)	T	n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.17
79)	T	2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.91
80)	T	1,3,5-Trimethy...	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.62
81)	T	trans-1,4-Dich...		0.347	0.381	0.414	0.420	0.424	0.397	8.31
82)	T	4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.74
83)	T	tert-Butylbenzene	2.800	3.223	3.346	3.359	3.240	3.215	3.197	6.39
84)	T	1,2,4-Trimethy...	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.17
85)	T	sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.09
86)	T	p-Isopropyltol...	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.81
87)	T	1,3-Dichlorobe...	1.462	1.800	1.829	1.817	1.768	1.758	1.739	7.95
88)	T	1,4-Dichlorobe...	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.47
89)	T	n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.14
90)	T	Hexachloroethane	0.434	0.565	0.574	0.593	0.606	0.614	0.564	11.81
91)	T	1,2-Dichlorobe...	1.359	1.691	1.757	1.746	1.696	1.692	1.657	8.97
92)	T	1,2-Dibromo-3-...	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.07
93)	T	1,2,4-Trichlor...	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.34
94)	T	Hexachlorobuta...	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.51
95)	T	Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.46
96)	T	1,2,3-Trichlor...	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.72

(#) = Out of Range



R = 2.100e-003 A*A + 2.631e-001 A - 4.158e-002
Coef of Det (r^2) = 0.999517 Curve Fit: Quadratic
Method: \\chrsrv\chrsrv\HPCHEM1\MSVOA X\Method\82X091625W.M
Calibration Table Last Updated: Wed Sep 17 06:39:58 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 78 - 117		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 92 - 112		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 83 - 123		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l	96
3) Chloromethane	1.300	50	3006	0.897	ug/l #	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l	95
6) Chloroethane	1.697	64	2134	0.973	ug/l	95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l	88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l	93
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l #	80
14) Allyl chloride	2.666	41	5885	0.974	ug/l	94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l	97
16) Acetone	2.380	43	8444	4.953	ug/l	99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l #	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l #	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l	93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l	95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l #	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l	97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l	95
25) 2-Butanone	4.550	43	9105	4.281	ug/l #	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l	77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l	96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l #	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l	98
30) Chloroform	5.074	83	5093	0.810	ug/l	86
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l #	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l #	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l #	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l	95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l	94
40) Benzene	6.025	78	12012	0.894	ug/l	98
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l #	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l	80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l	94
44) Trichloroethene	7.110	130	2677	0.824	ug/l	78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.574	93	2240	0.895	ug/l		94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l	#	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l	#	87
49) 1,4-Dioxane	7.653	88	488m	12.477	ug/l		
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l		95
52) Toluene	8.708	92	7595	0.917	ug/l		92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l	#	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l	#	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l		95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l	#	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l		99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l		98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l		87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l		96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l		83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l	#	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l		98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l		99
69) o-Xylene	10.622	106	4734	0.816	ug/l		94
70) Styrene	10.640	104	8377	0.824	ug/l		96
71) Bromoform	10.787	173	1816	0.755	ug/l	#	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l		96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l		96
76) 1,2,3-Trichloropropane	11.225	75	3421m	0.816	ug/l		
77) Bromobenzene	11.183	156	3069	0.811	ug/l		98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l		99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l		99
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l		95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l		97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l		100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l		99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l		92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	6341m	0.880	ug/l		
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l		97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l		97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l		93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l		95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l		93
95) Naphthalene	13.756	128	10112	0.763	ug/l		98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l		98

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

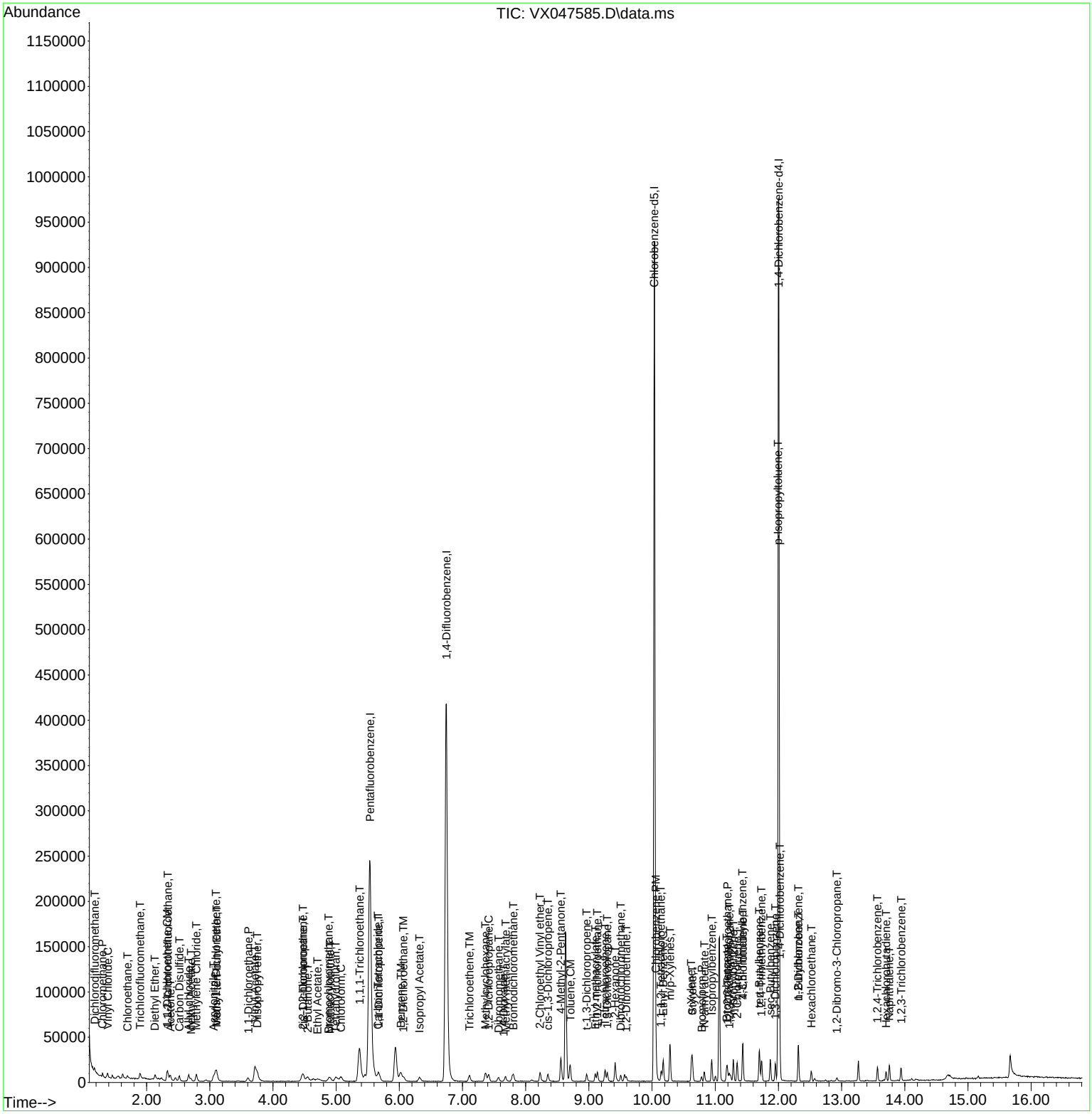
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047585.D
Acq On : 16 Sep 2025 09:23
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

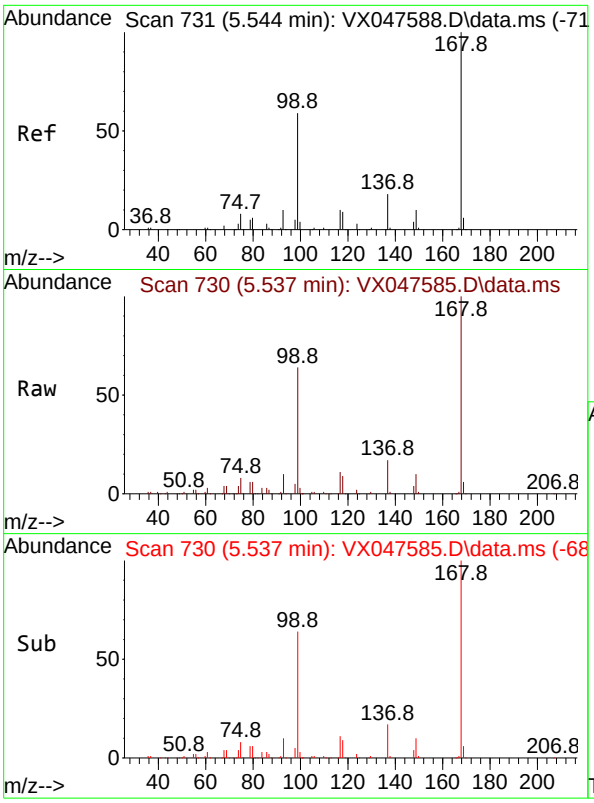
Quant Time: Sep 17 06:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

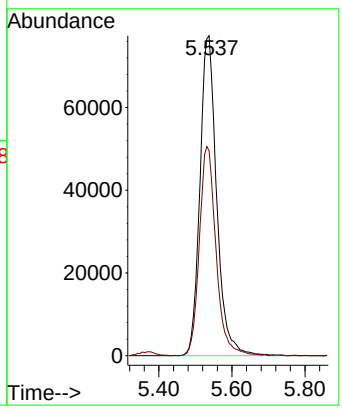




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:168 Resp: 24634

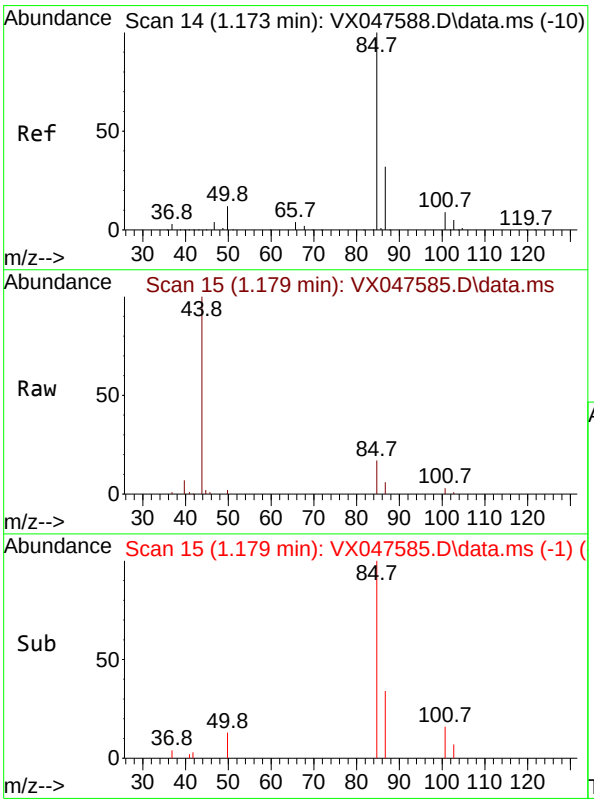
Ion	Ratio	Lower	Upper
168	100		
99	64.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

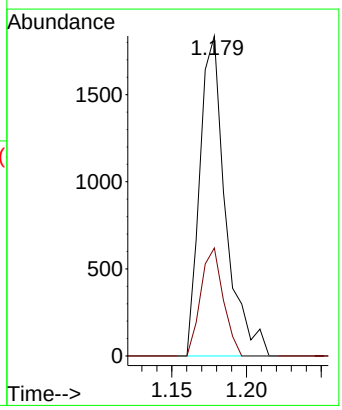
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

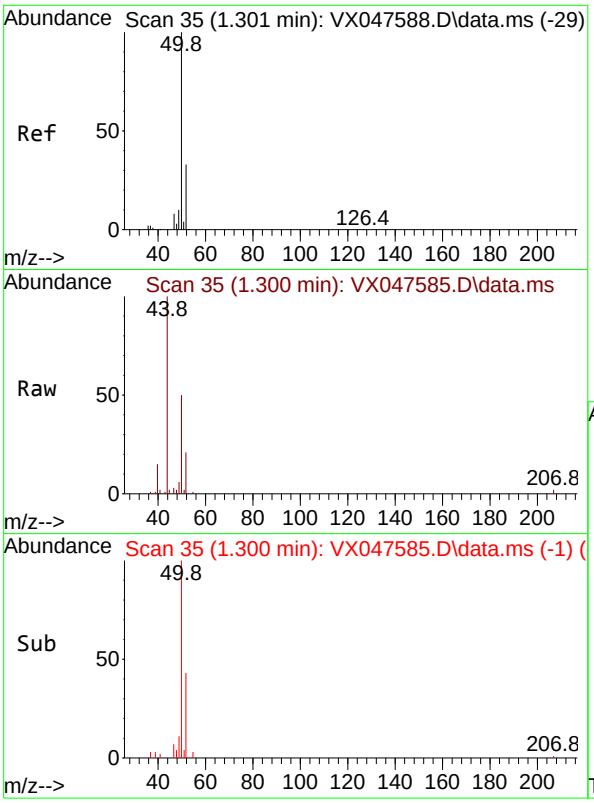


#2
Dichlorodifluoromethane
Concen: 0.863 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 85 Resp: 2201

Ion	Ratio	Lower	Upper
85	100		
87	33.8	15.8	47.3

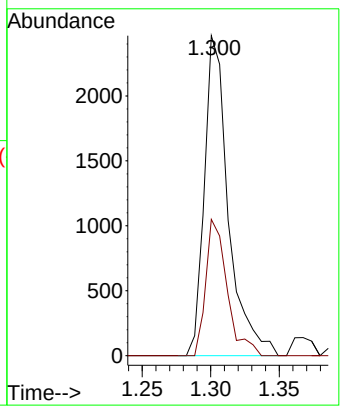




#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 50 Resp: 300

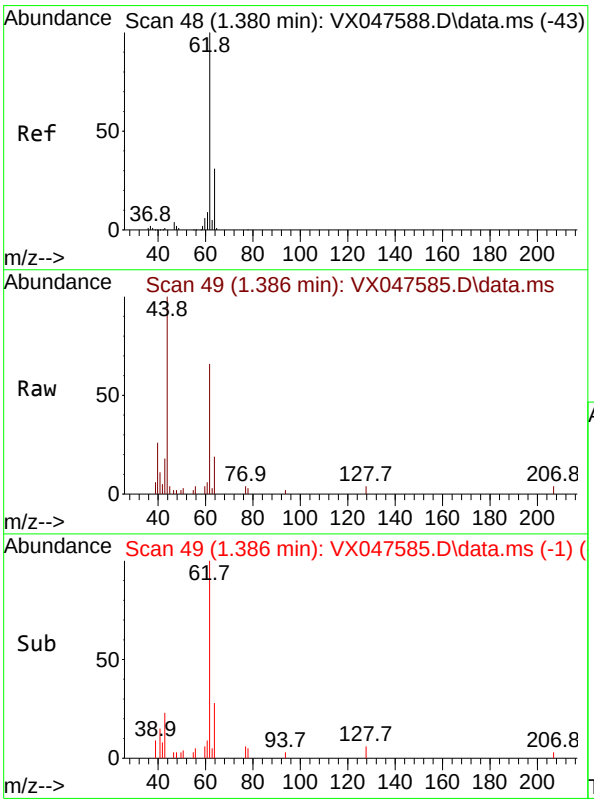
Ion	Ratio	Lower	Upper
50	100		
52	42.6	26.1	39.1#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

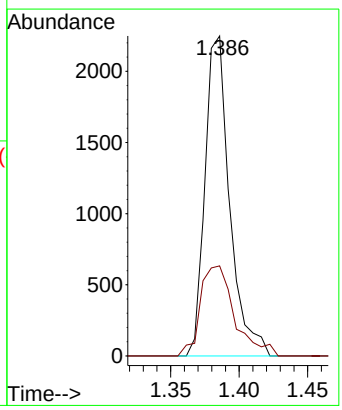
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

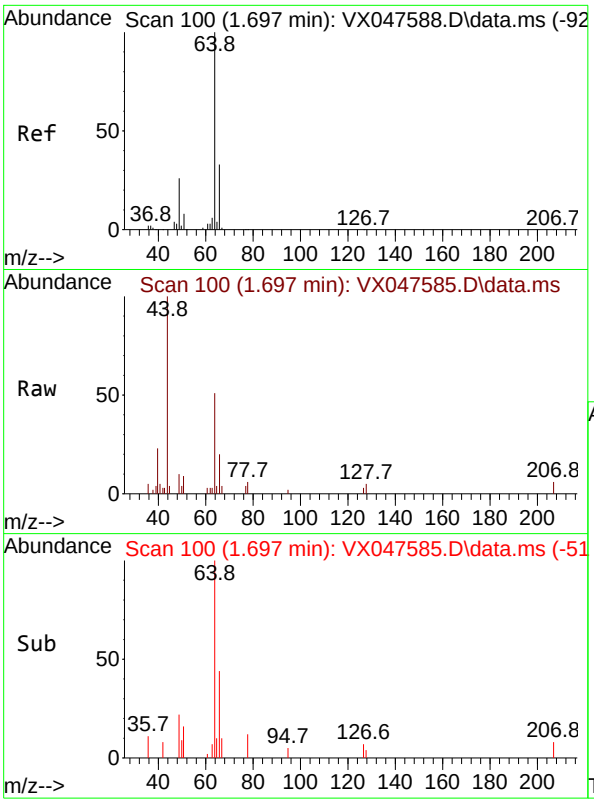


#4
Vinyl Chloride
Concen: 0.859 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 2818

Ion	Ratio	Lower	Upper
62	100		
64	28.2	24.9	37.3

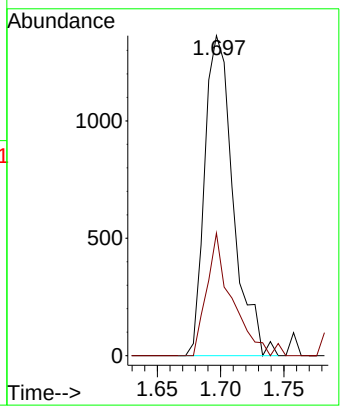




#6
Chloroethane
Concen: 0.973 ug/l
RT: 1.697 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 64 Resp: 213

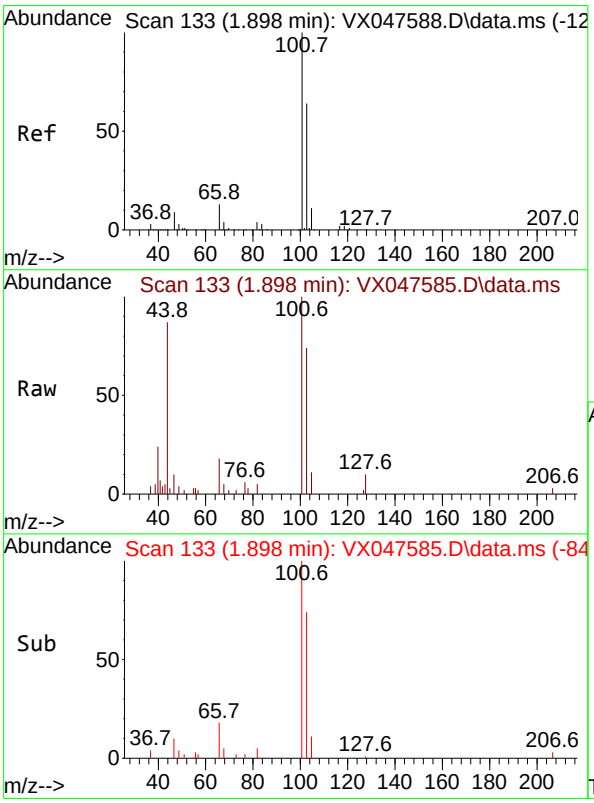
Ion	Ratio	Lower	Upper
64	100		
66	35.4	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

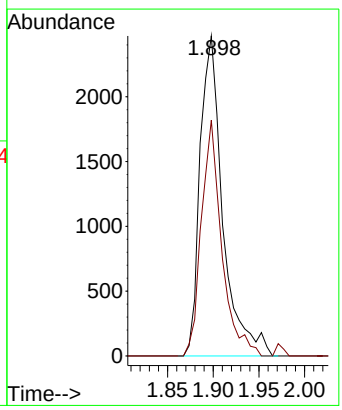
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

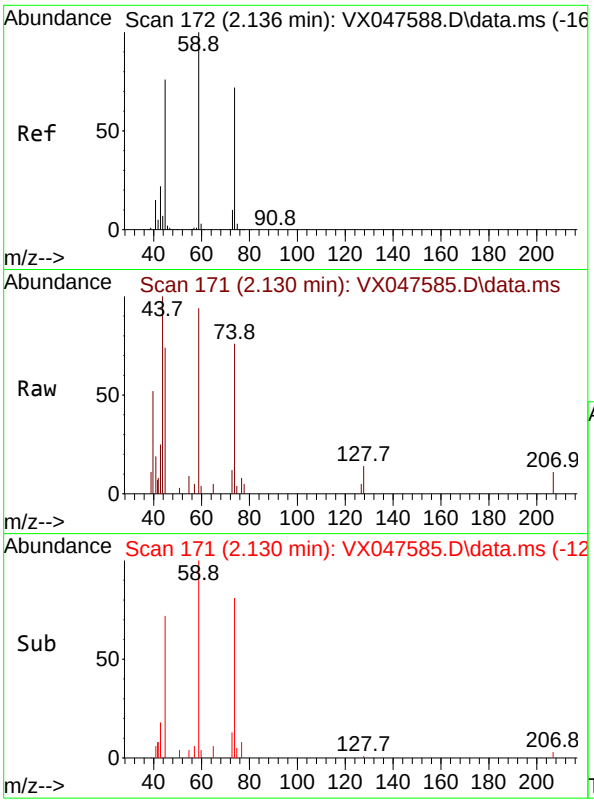


#7
Trichlorofluoromethane
Concen: 0.874 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:101 Resp: 4261

Ion	Ratio	Lower	Upper
101	100		
103	73.7	51.4	77.2





#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

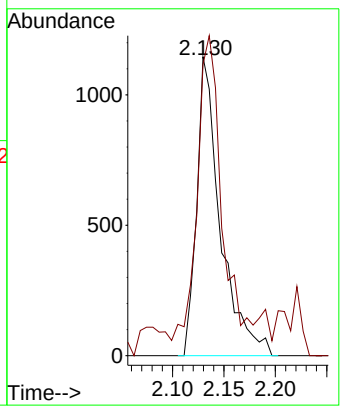
Tgt Ion: 74 Resp: 183

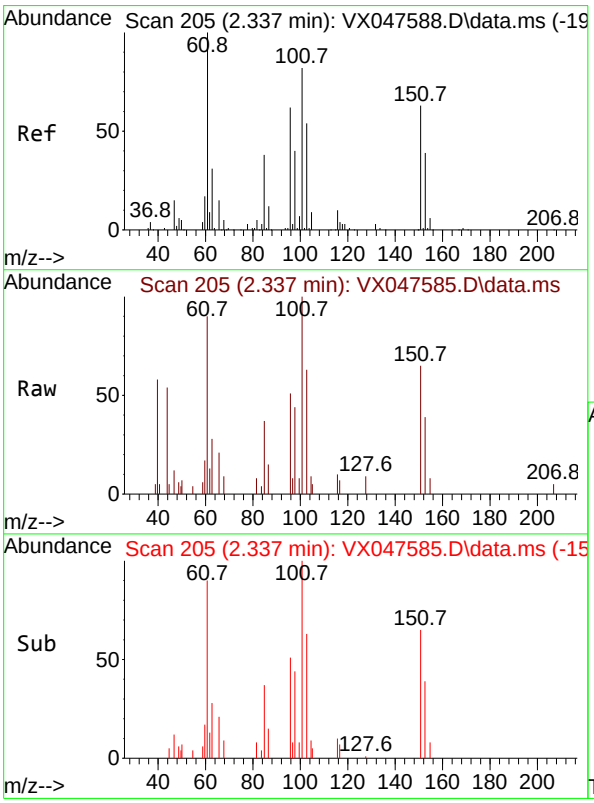
Ion	Ratio	Lower	Upper
74	100		
45	102.2	52.3	156.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

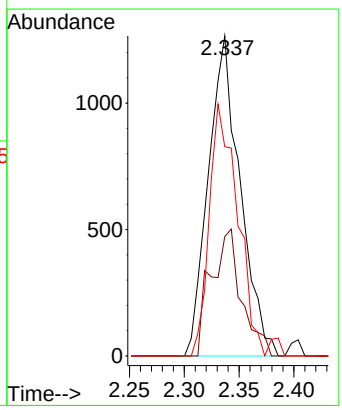


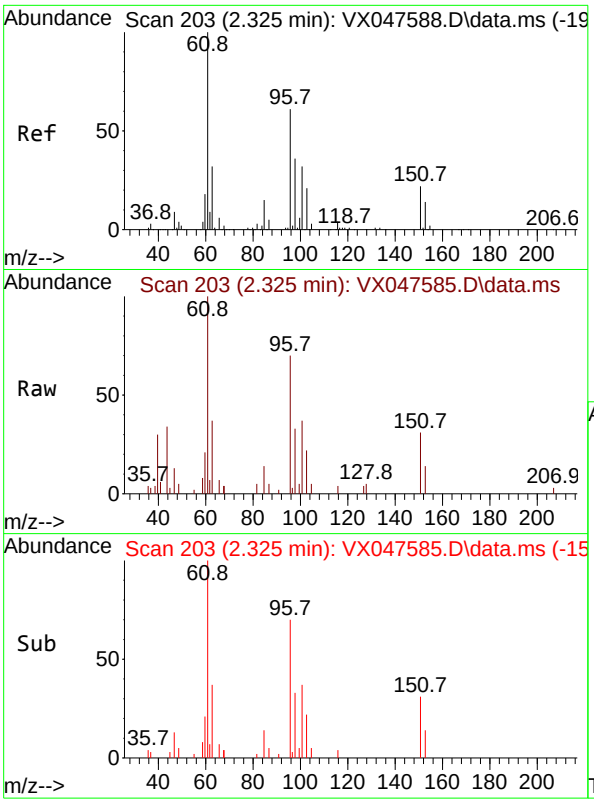


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:101 Resp: 2555

Ion	Ratio	Lower	Upper
101	100		
85	37.8	35.5	53.3
151	69.9	59.4	89.0

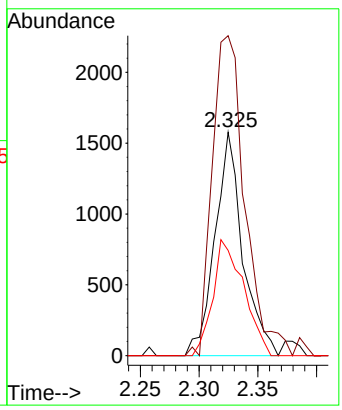




#12
1,1-Dichloroethene
Concen: 0.886 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 259

Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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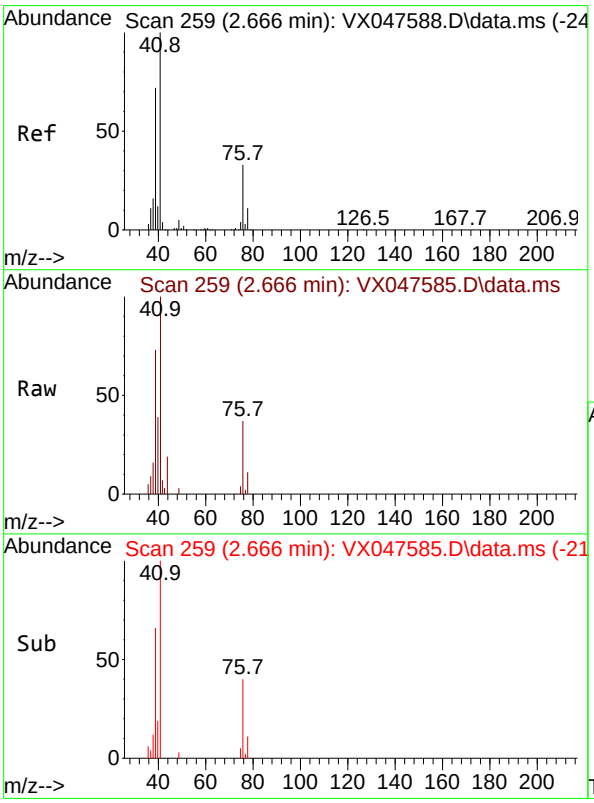
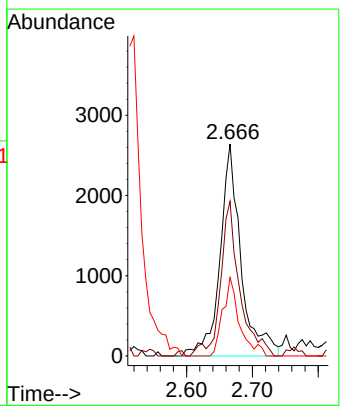
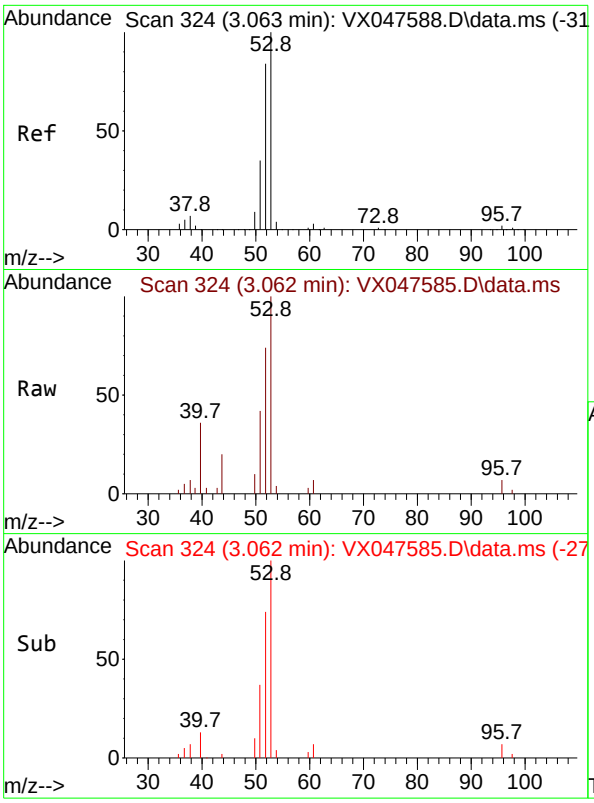


#14
Allyl chloride
Concen: 0.974 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 5885

Ion	Ratio	Lower	Upper
41	100		
39	63.3	54.7	82.1
76	29.3	25.7	38.5

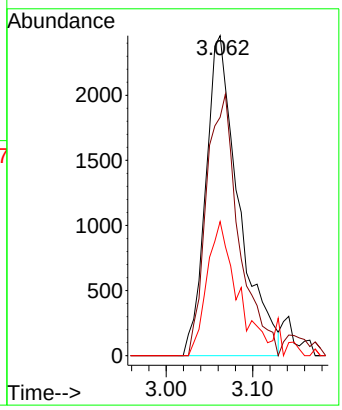




#15
Acrylonitrile
Concen: 4.018 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 53 Resp: 650

Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.4	99.6
51	38.7	29.5	44.3



Instrument :
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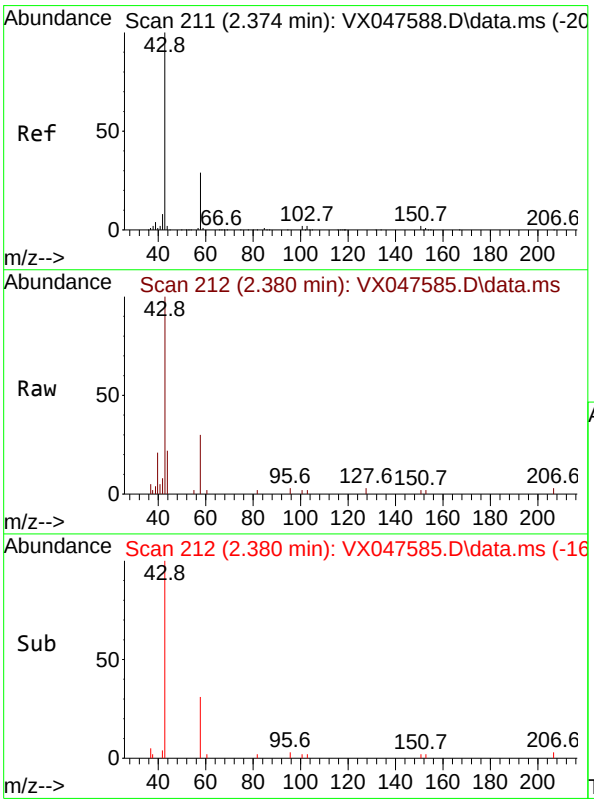
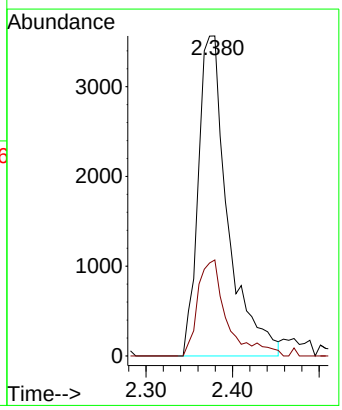
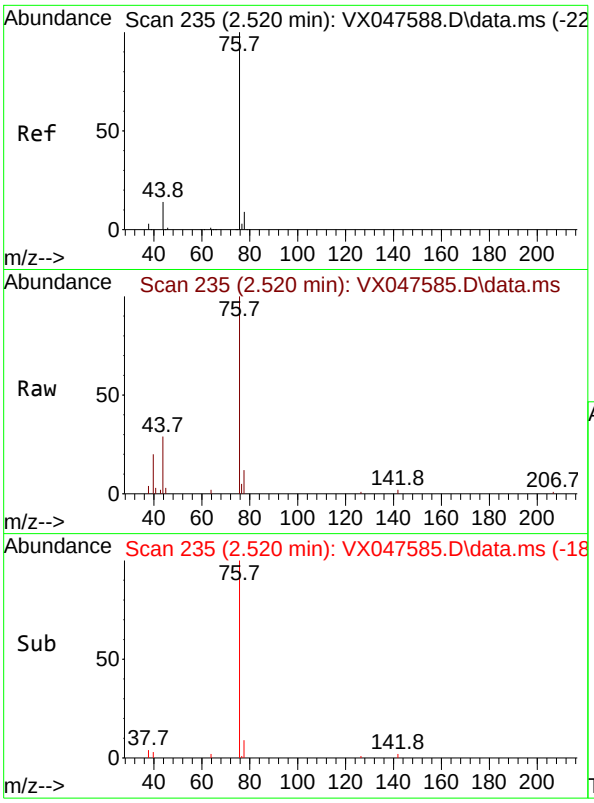


#16
Acetone
Concen: 4.953 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 8444

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0





#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 76 Resp: 766

Ion	Ratio	Lower	Upper
76	100		
78	11.6	6.8	10.2

Instrument :
MSVOA_X
ClientSampleId :
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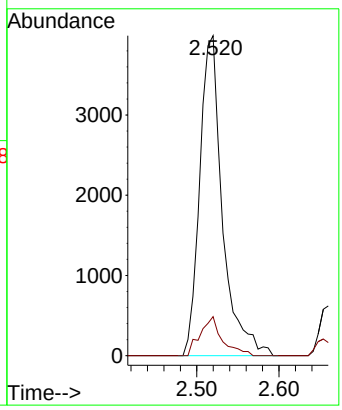
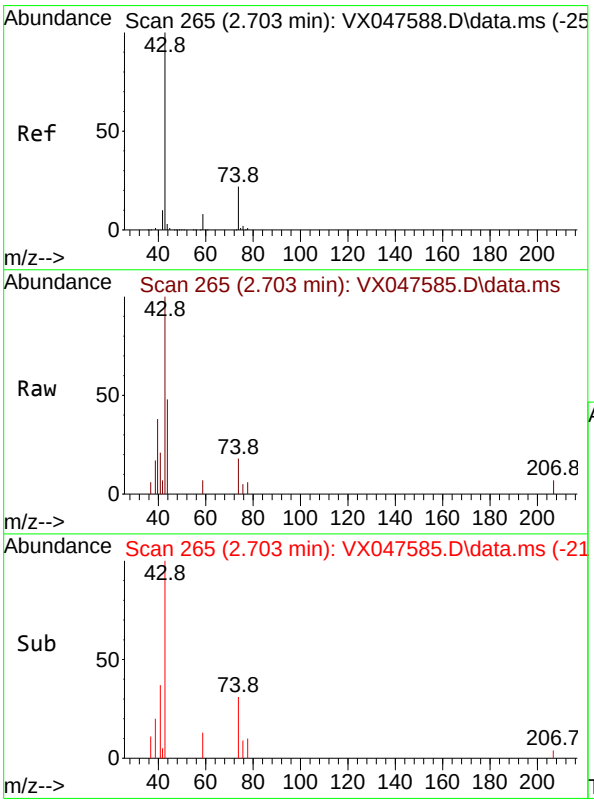
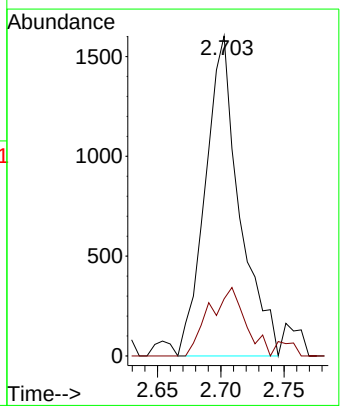


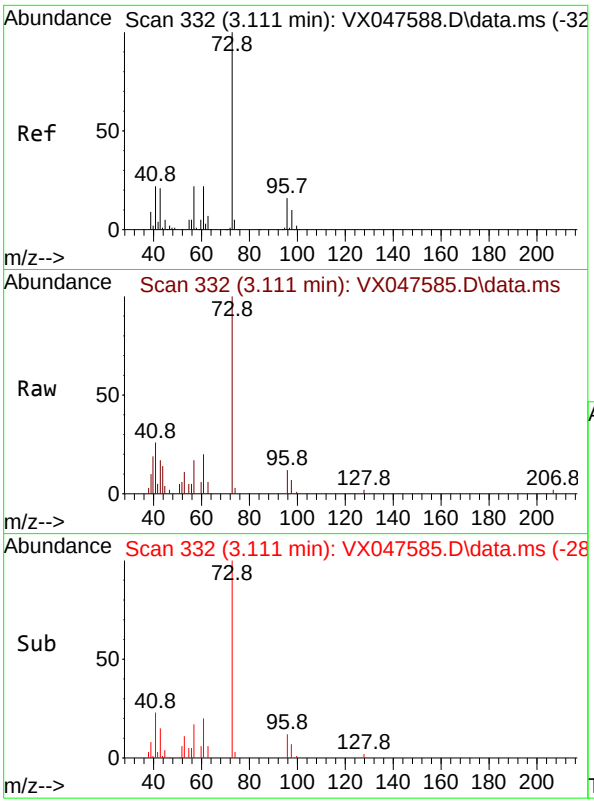


#18
Methyl Acetate
Concen: 0.794 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3013

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

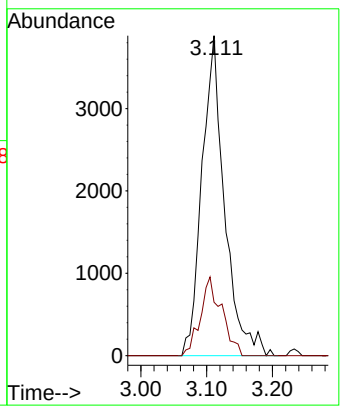




#19
Methyl tert-butyl Ether
Concen: 0.869 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 73 Resp: 928

Ion	Ratio	Lower	Upper
73	100		
57	16.7	17.4	26.2



Instrument :
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ClientSampleId :
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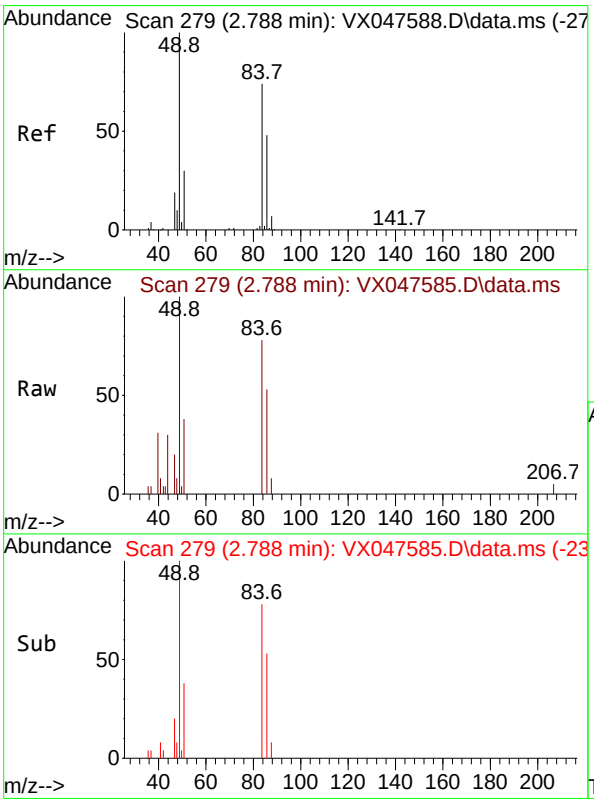
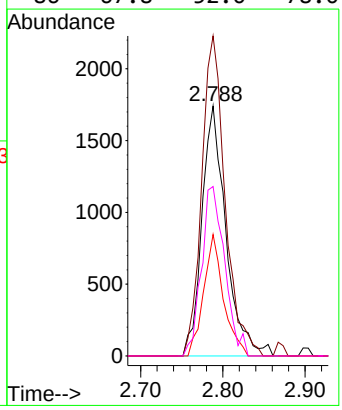
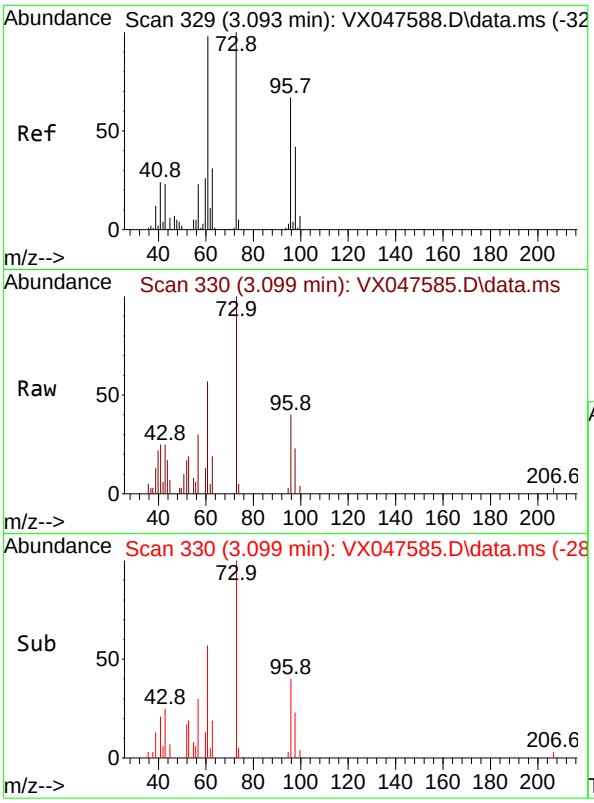


#20
Methylene Chloride
Concen: 0.981 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 84 Resp: 3540

Ion	Ratio	Lower	Upper
84	100		
49	128.0	108.6	162.8
51	48.6	32.6	48.8
86	67.8	52.0	78.0

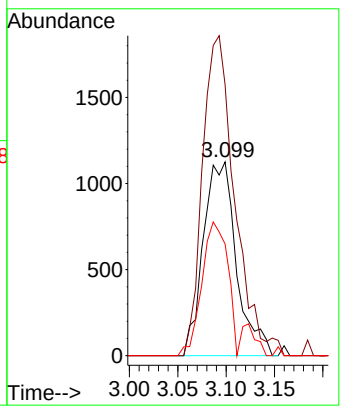




#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 267

Ion	Ratio	Lower	Upper
96	100		
61	139.9	116.2	174.2
98	57.6	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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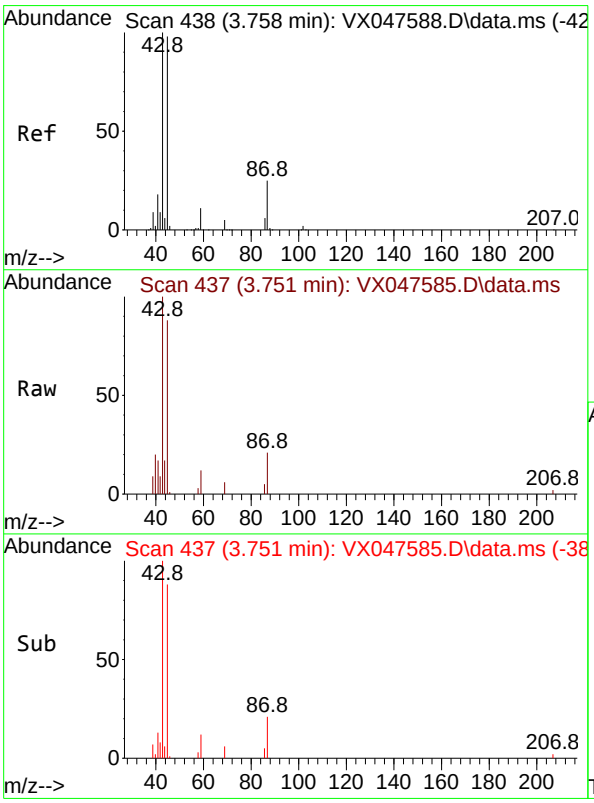
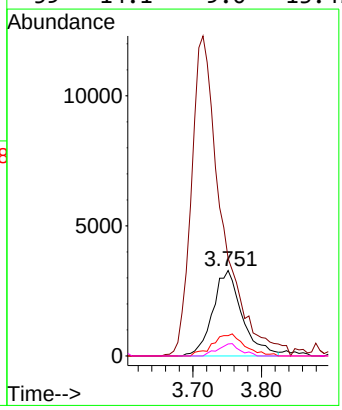
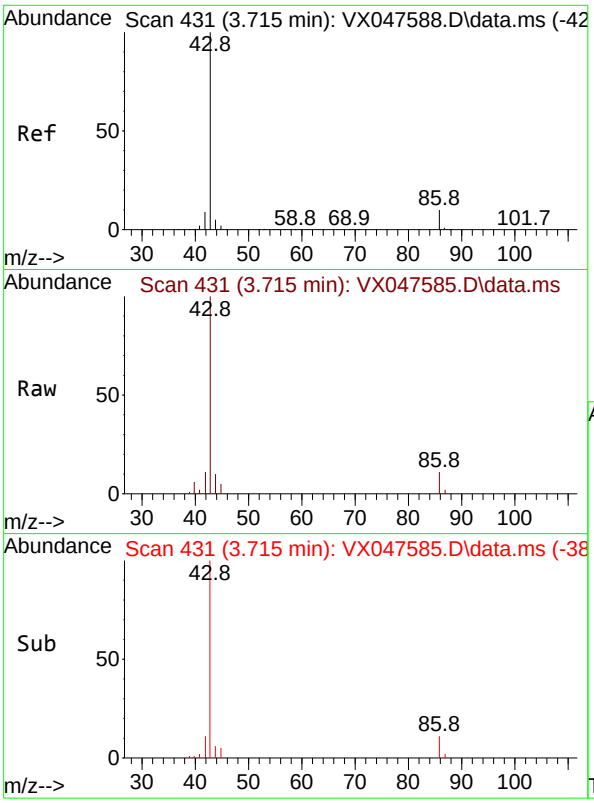


#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 45 Resp: 9738

Ion	Ratio	Lower	Upper
45	100		
43	117.9	81.0	121.4
87	23.7	20.3	30.5
59	14.1	9.0	13.4#





#23
Vinyl Acetate
Concen: 4.052 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3796

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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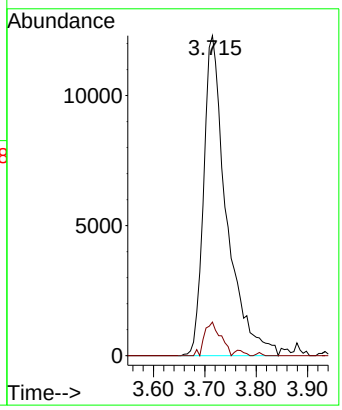
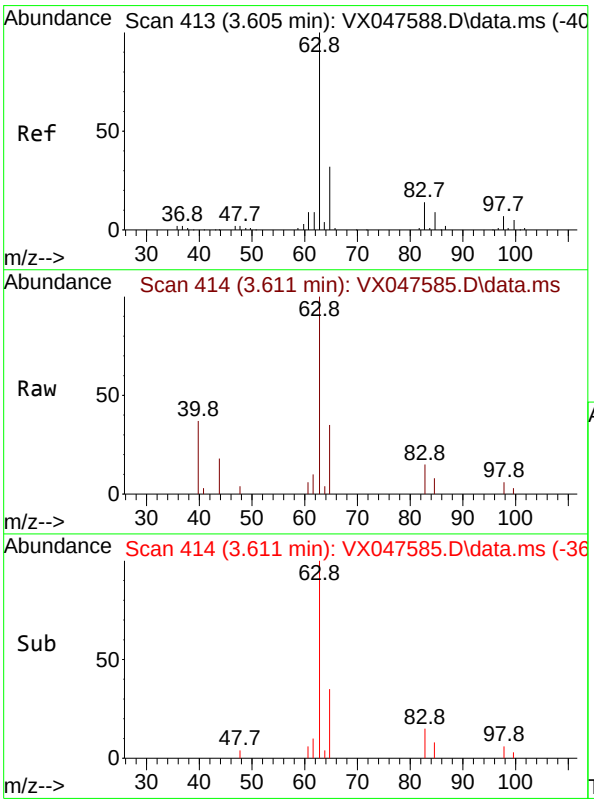
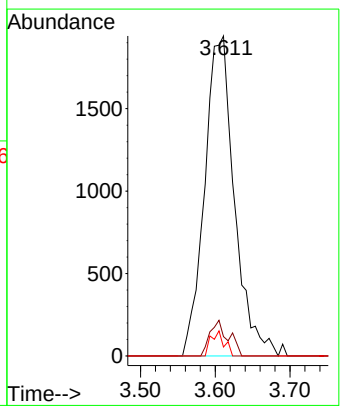


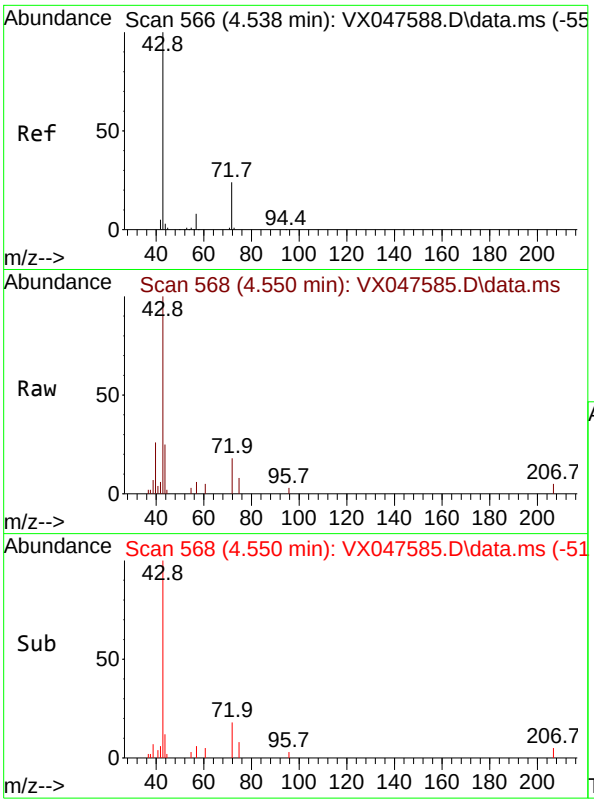


#24
1,1-Dichloroethane
Concen: 0.863 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 5372

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.8	11.2
100	2.8	2.3	6.9





#25
2-Butanone
Concen: 4.281 ug/l
RT: 4.550 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 910

Ion	Ratio	Lower	Upper
43	100		
72	16.3	20.1	30.1#

Instrument :
MSVOA_X
ClientSampleId :
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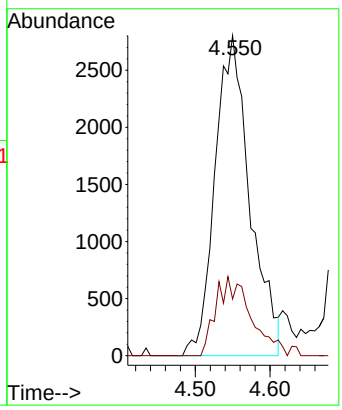
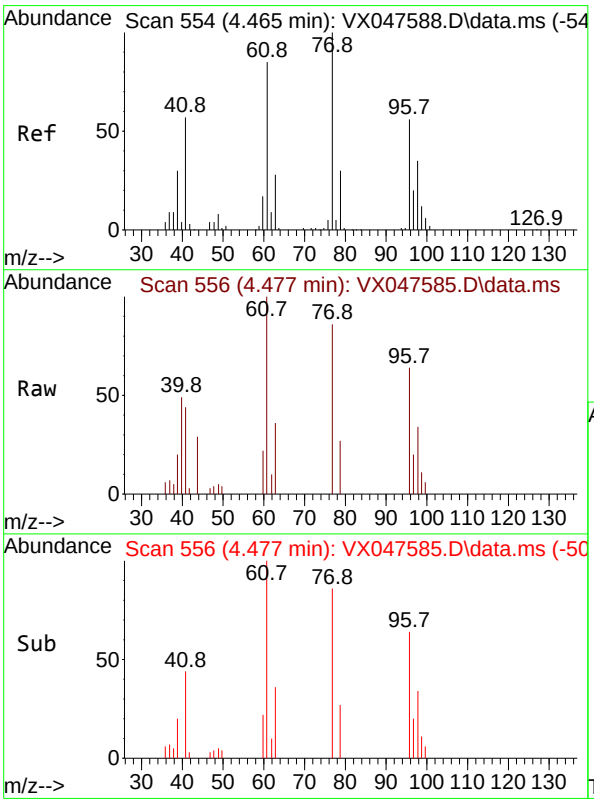
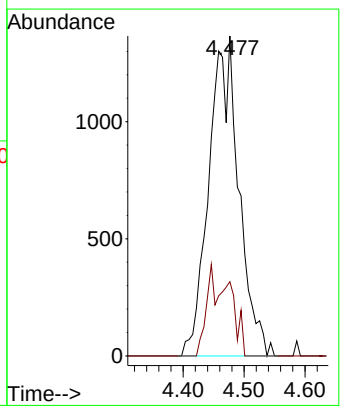


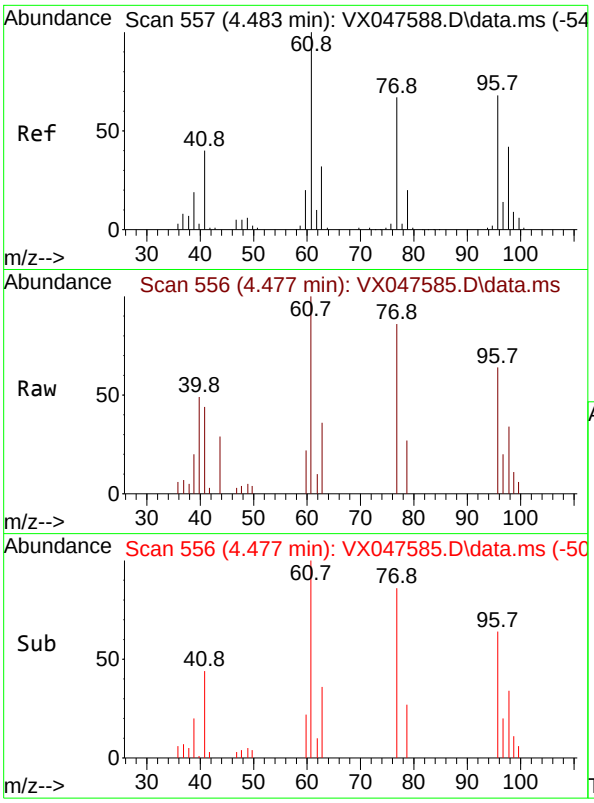


#26
2,2-Dichloropropane
Concen: 0.901 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 77 Resp: 4657

Ion	Ratio	Lower	Upper
77	100		
97	11.0	10.9	32.7

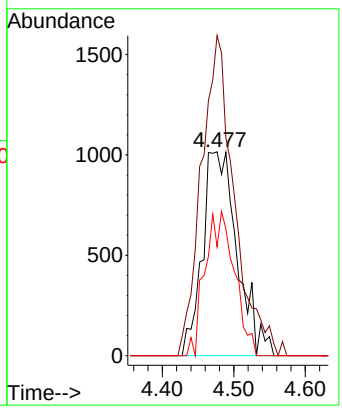




#27
cis-1,2-Dichloroethene
Concen: 0.891 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 96 Resp: 344

Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	303.2
98	59.4	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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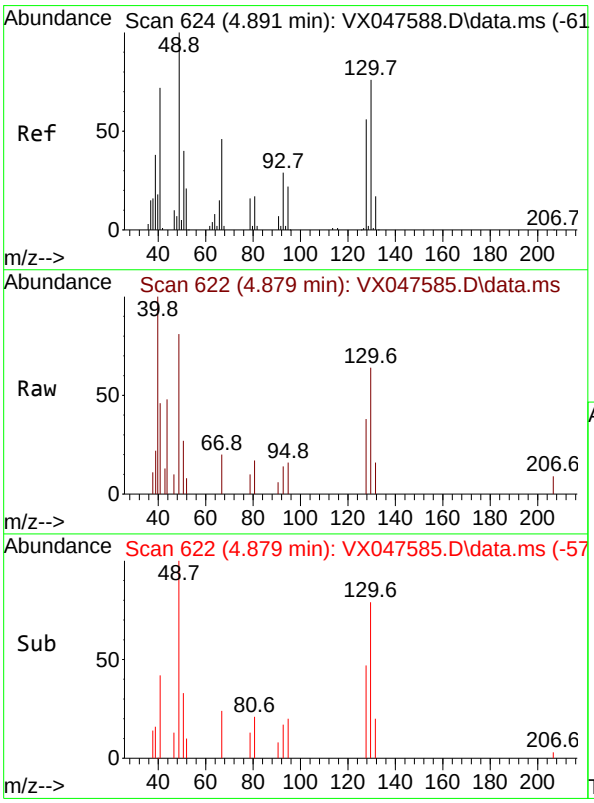
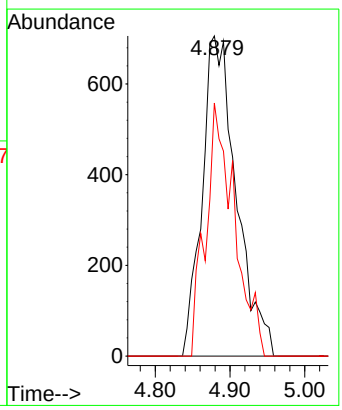
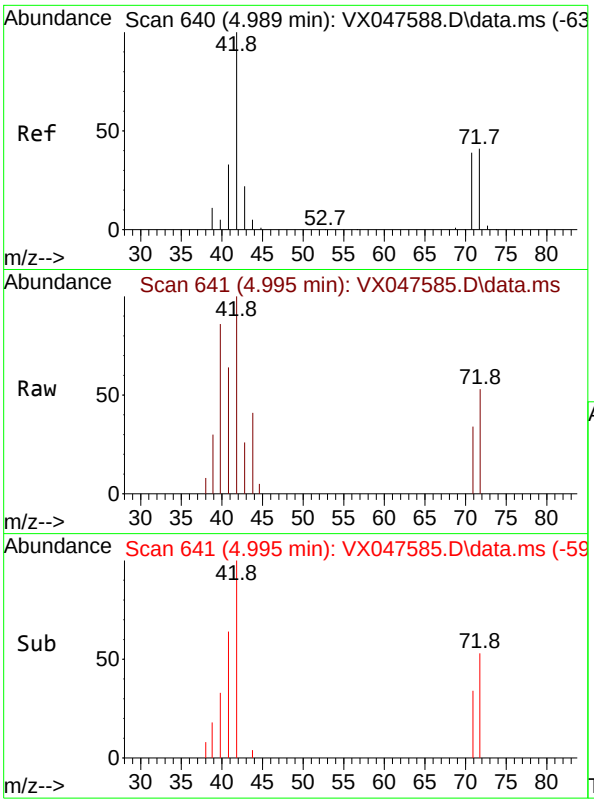


#28
Bromochloromethane
Concen: 0.829 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 49 Resp: 2251

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	66.2	57.8	86.8

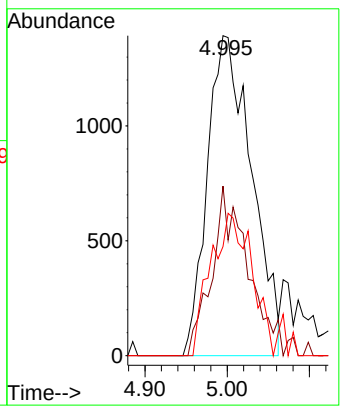




#29
Tetrahydrofuran
Concen: 4.072 ug/l
RT: 4.995 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 42 Resp: 521

Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.2	51.2
71	41.3	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
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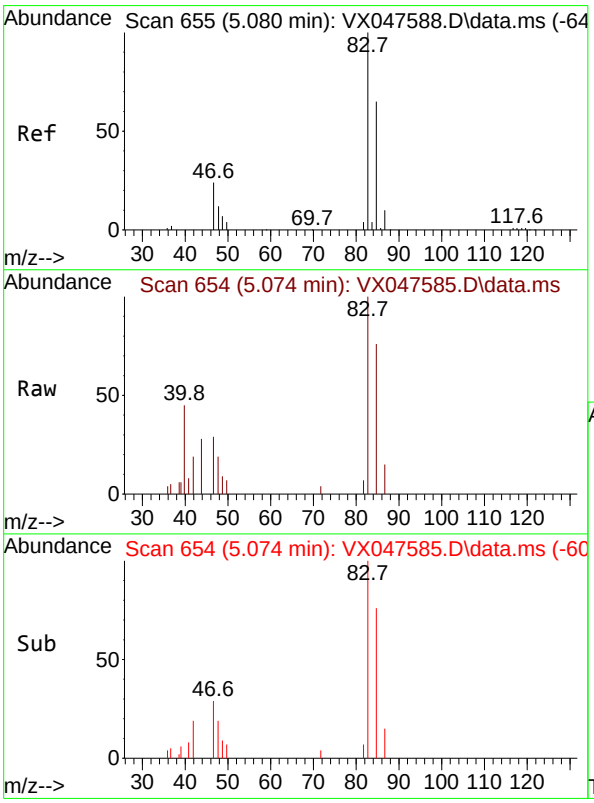
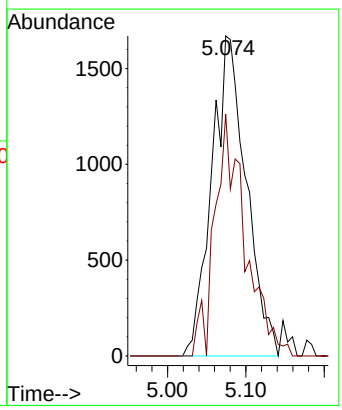
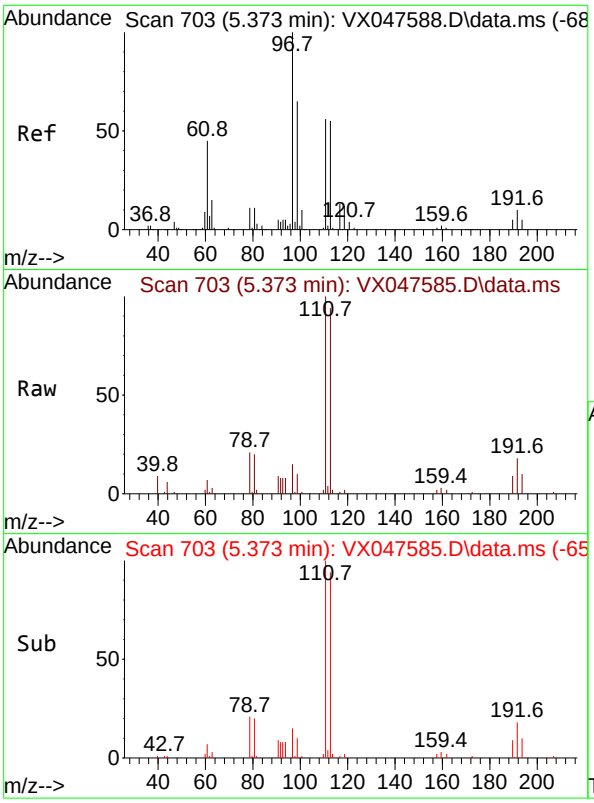


#30
Chloroform
Concen: 0.810 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 5093

Ion	Ratio	Lower	Upper
83	100		
85	75.6	51.8	77.6

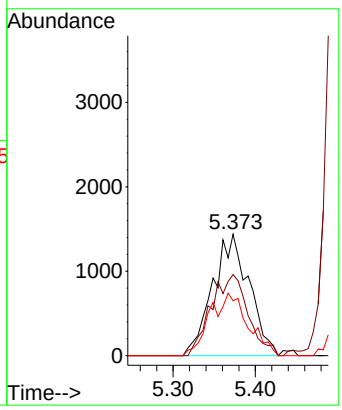




#32
1,1,1-Trichloroethane
Concen: 0.832 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 443

Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0
61	36.2	35.8	53.8



Instrument :
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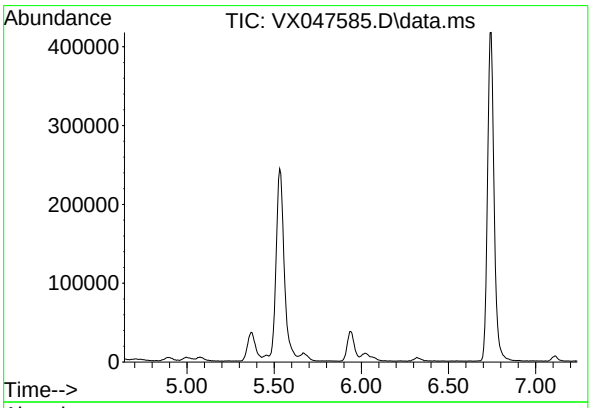
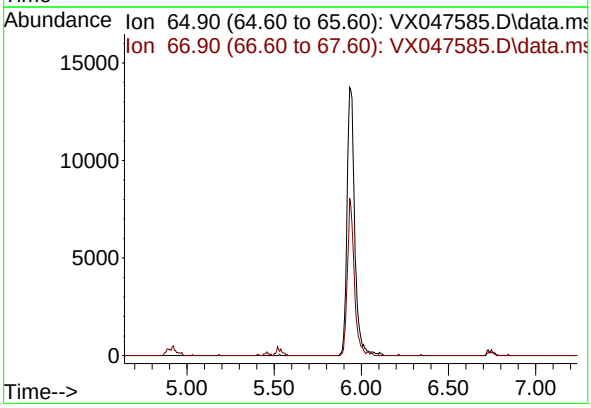


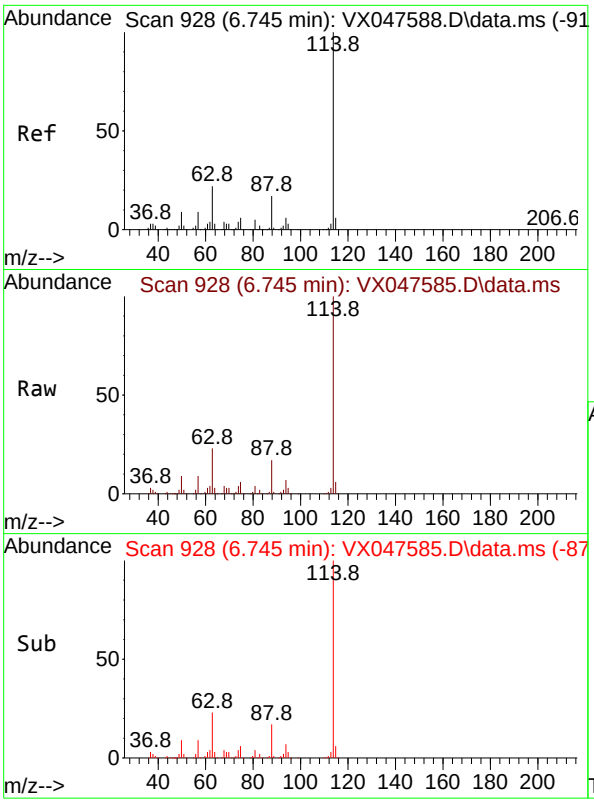
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.94 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	51.5





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:114 Resp: 45150

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	44.0
88	16.6	0.0	34.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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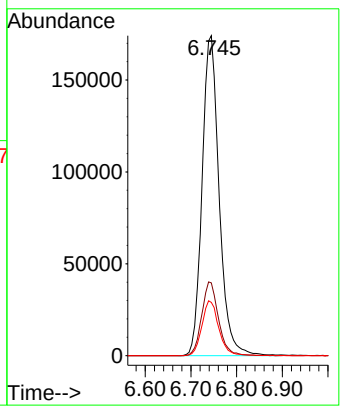
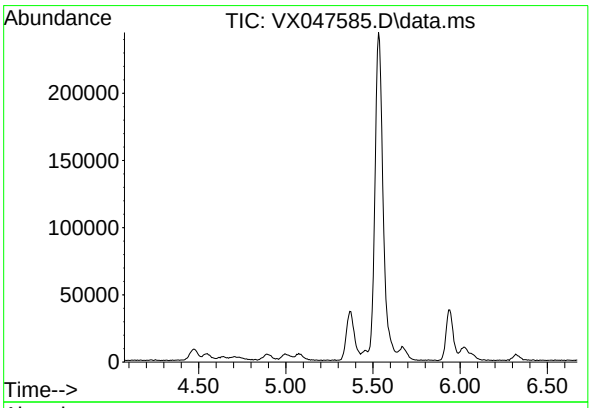
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



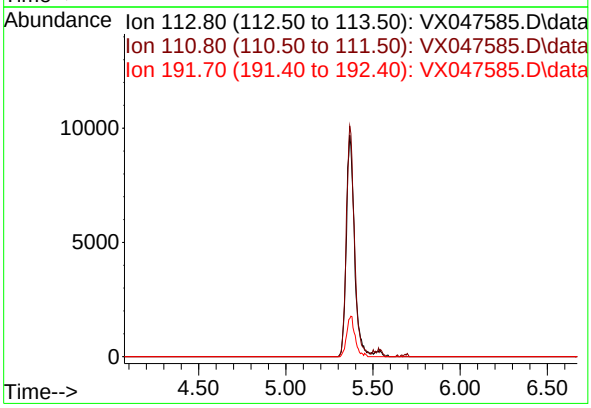


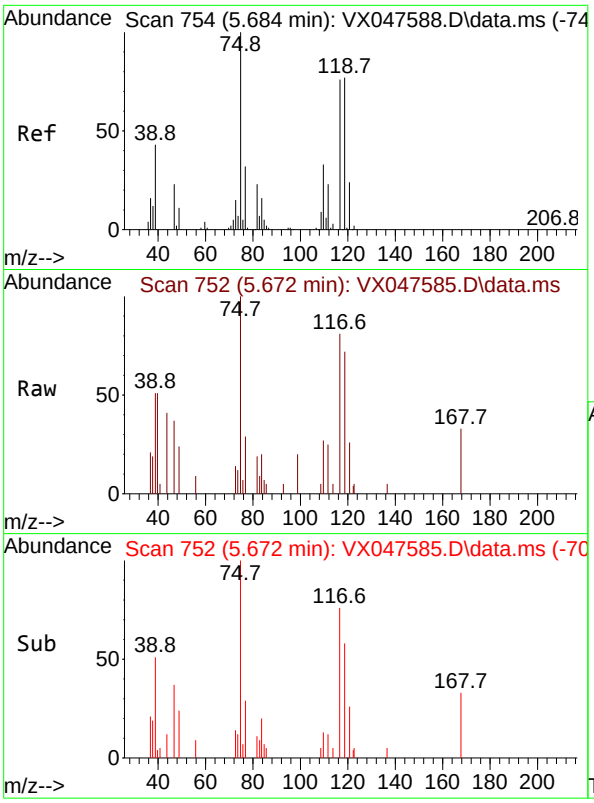
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.37 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	101.1
192	17.8

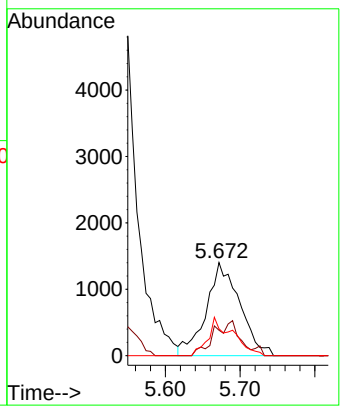




#36
1,1-Dichloropropene
Concen: 0.988 ug/l
RT: 5.672 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 437

Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.7	50.1#
77	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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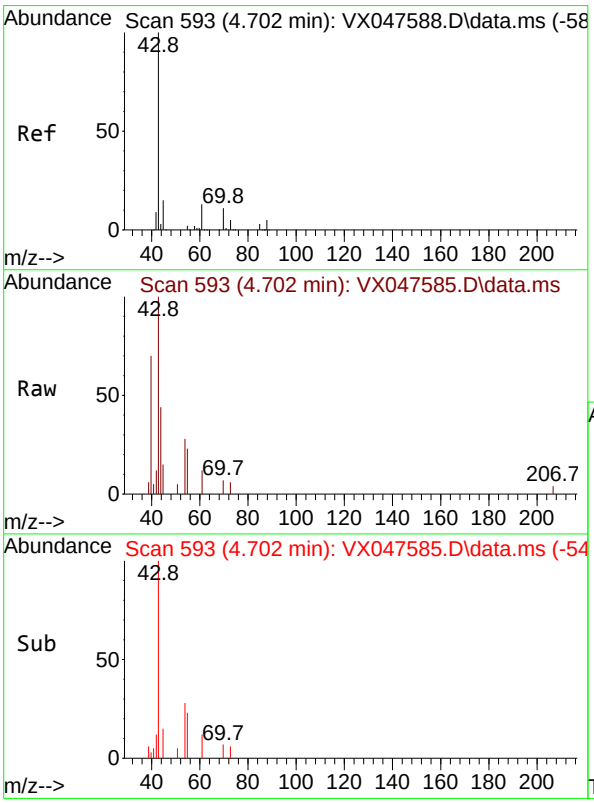
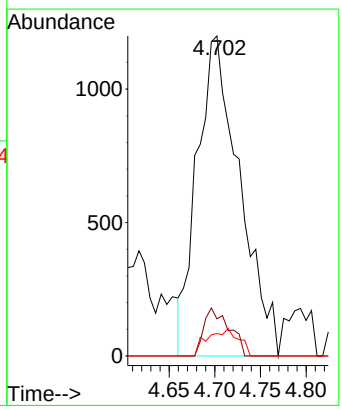
Supervised By :Mahesh Dadoda 09/18/2025

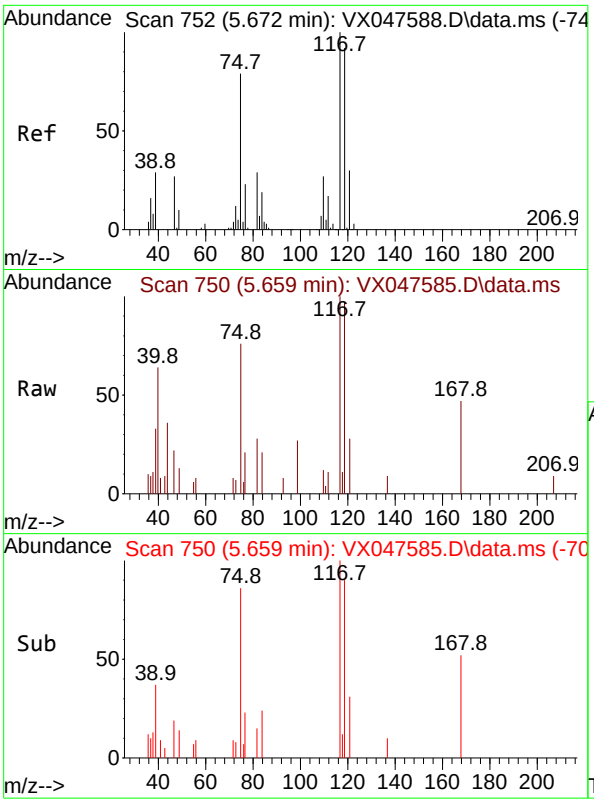


#37
Ethyl Acetate
Concen: 0.818 ug/l
RT: 4.702 min Scan# 593
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 3873

Ion	Ratio	Lower	Upper
43	100		
61	8.9	9.8	14.8#
70	6.2	7.9	11.9#

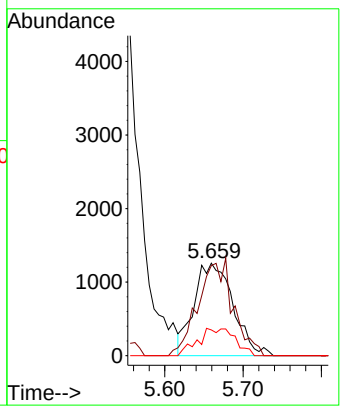




#38
Carbon Tetrachloride
Concen: 0.905 ug/l
RT: 5.659 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 434

Ion	Ratio	Lower	Upper
117	100		
119	97.3	73.4	110.2
121	27.8	23.8	35.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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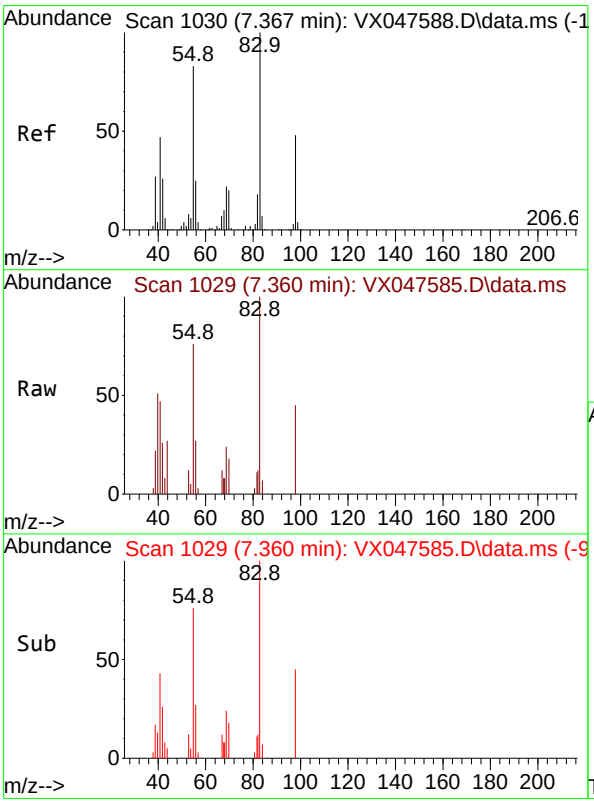
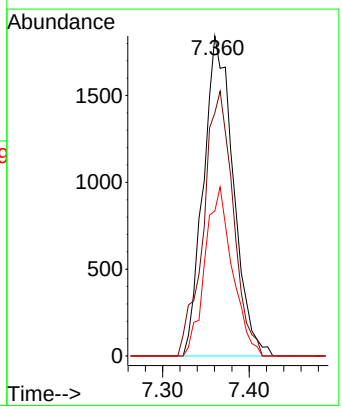
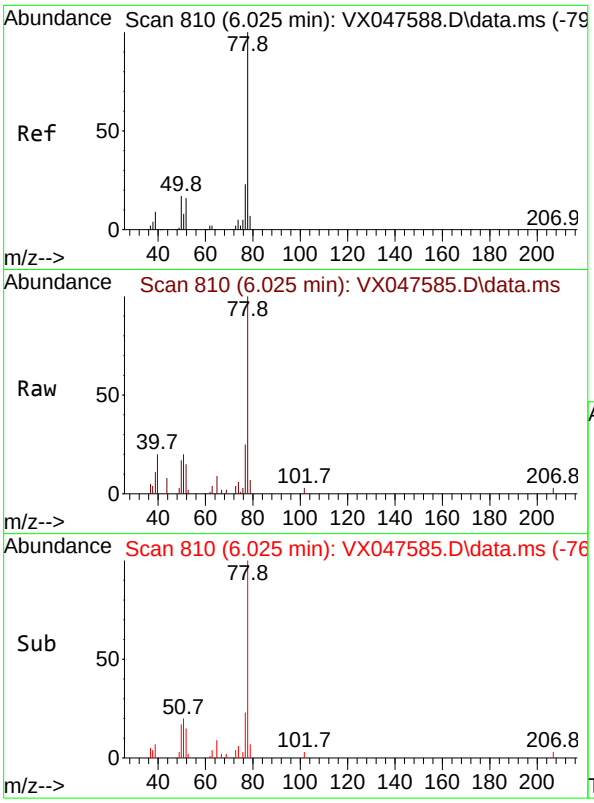


#39
Methylcyclohexane
Concen: 0.882 ug/l
RT: 7.360 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4428

Ion	Ratio	Lower	Upper
83	100		
55	76.0	66.4	99.6
98	45.3	38.1	57.1





#40
Benzene
Concen: 0.894 ug/l
RT: 6.025 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 78 Resp: 1201

Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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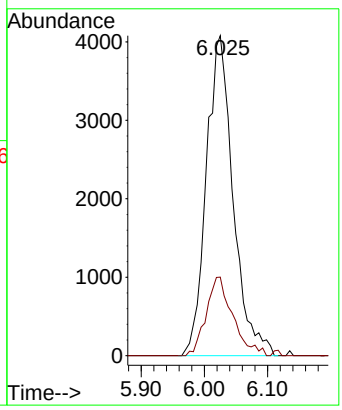
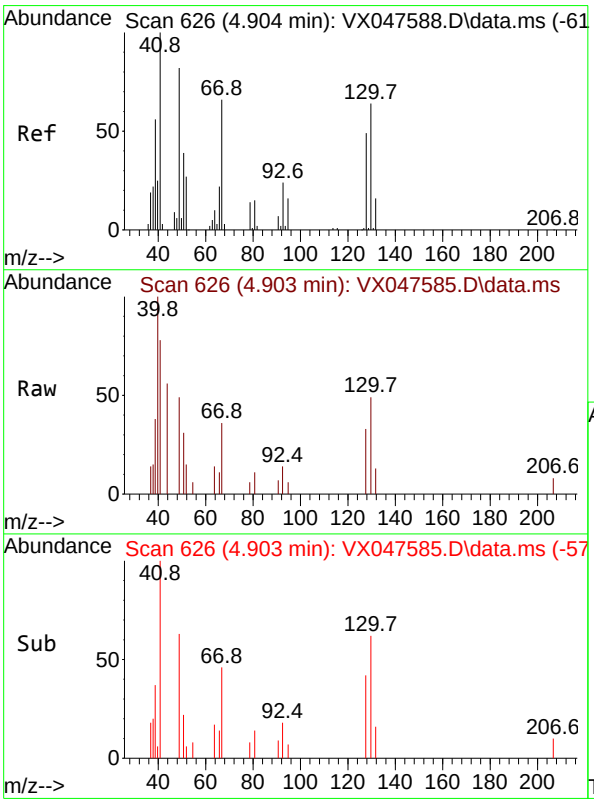
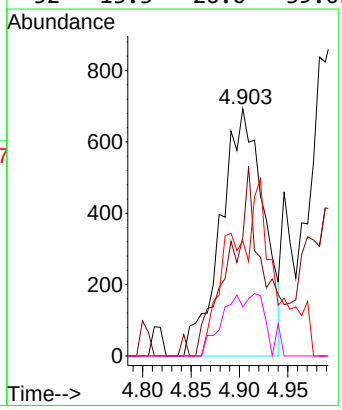


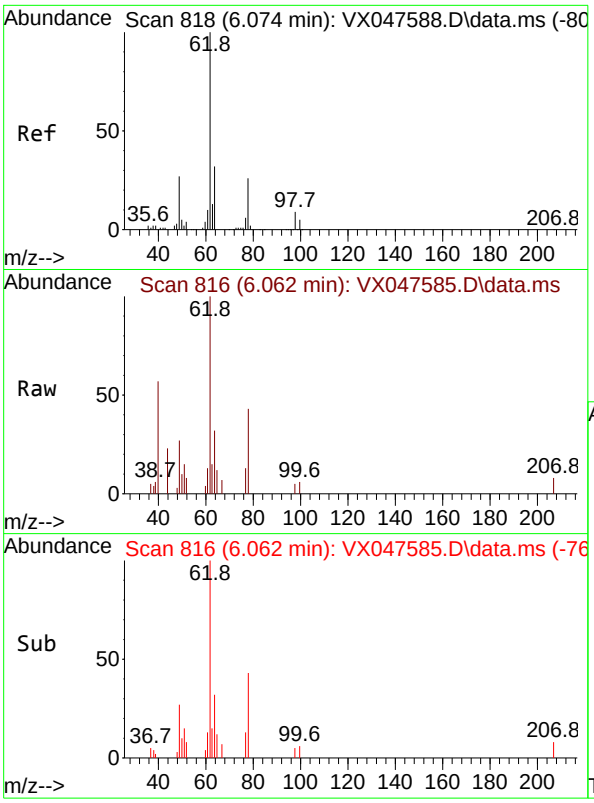


#41
Methacrylonitrile
Concen: 0.870 ug/l
RT: 4.903 min Scan# 626
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 2128

Ion	Ratio	Lower	Upper
41	100		
39	60.3	43.3	64.9
67	23.5	58.6	87.8#
52	13.3	26.0	39.0#

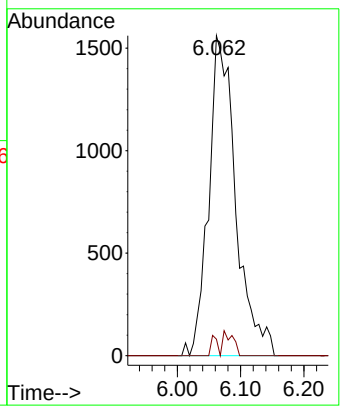




#42
1,2-Dichloroethane
Concen: 0.906 ug/l
RT: 6.062 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 62 Resp: 463

Ion	Ratio	Lower	Upper
62	100		
98	1.4	0.0	17.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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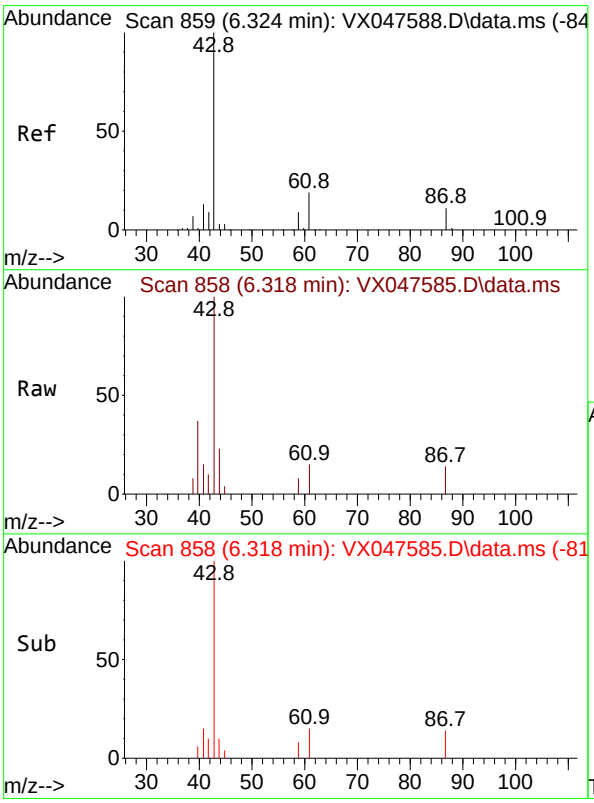
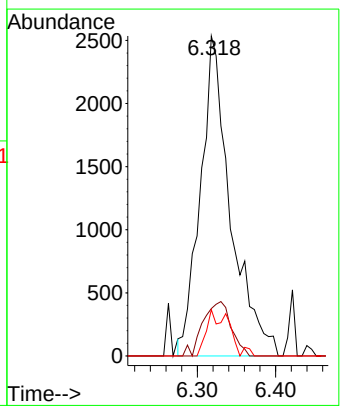
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

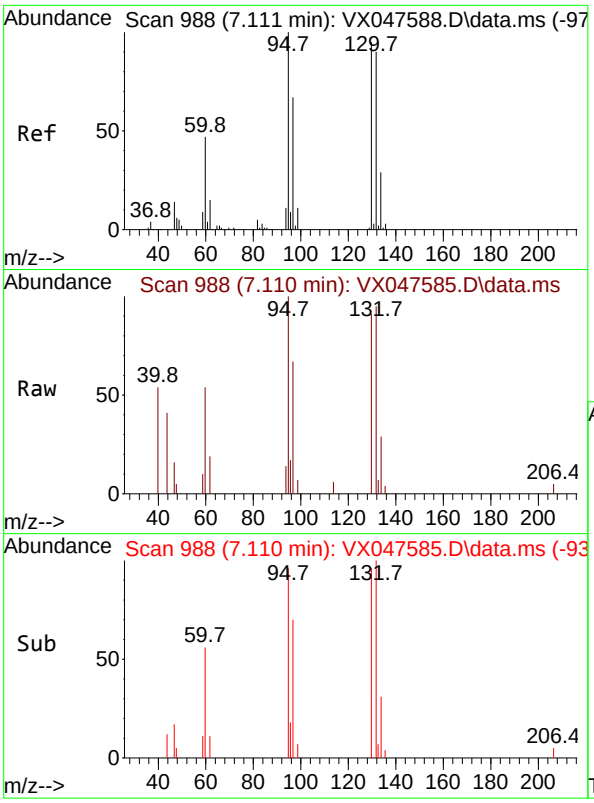


#43
Isopropyl Acetate
Concen: 0.873 ug/l
RT: 6.318 min Scan# 858
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 6784

Ion	Ratio	Lower	Upper
43	100		
61	15.9	15.2	22.8
87	10.1	9.6	14.4

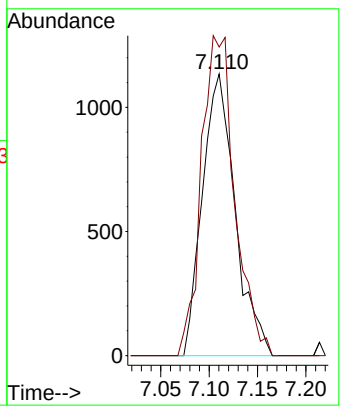




#44
Trichloroethene
Concen: 0.824 ug/l
RT: 7.110 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:130 Resp: 267

Ion	Ratio	Lower	Upper
130	100		
95	127.9	0.0	210.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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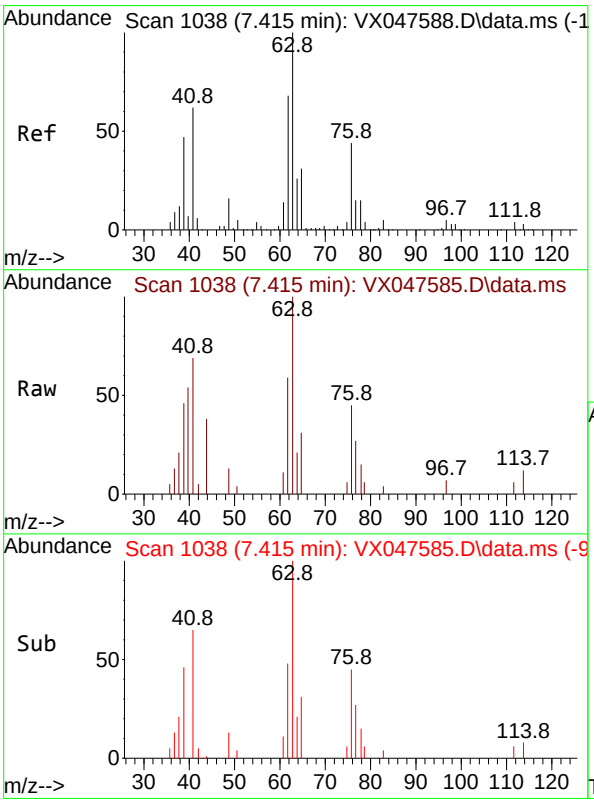
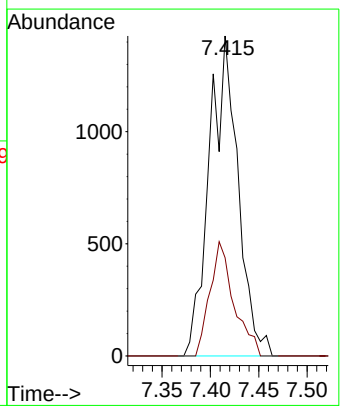
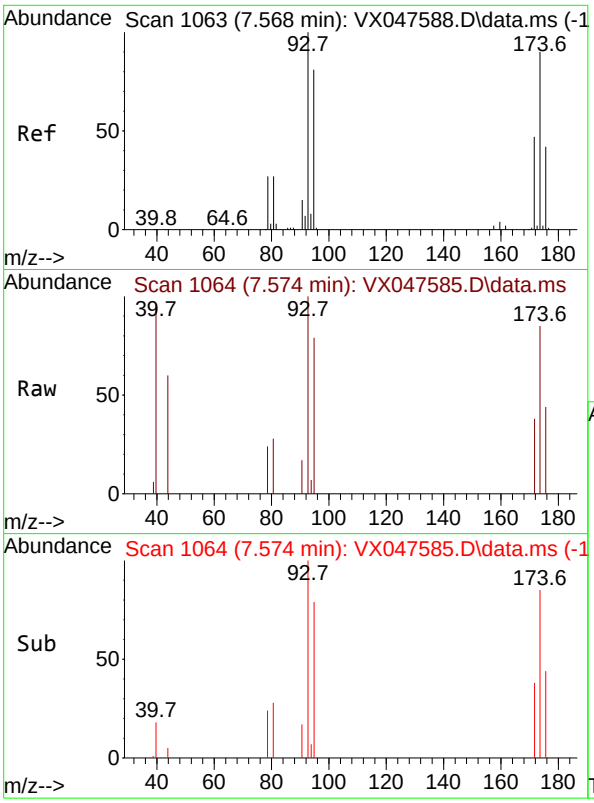


#45
1,2-Dichloropropane
Concen: 0.856 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 2945

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

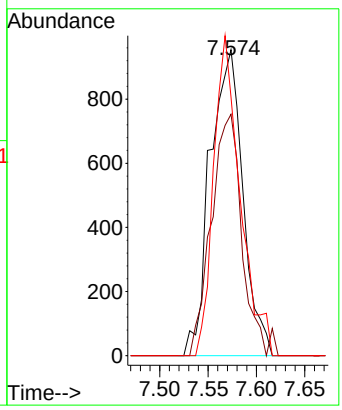




#46
Dibromomethane
Concen: 0.895 ug/l
RT: 7.574 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 93 Resp: 224

Ion	Ratio	Lower	Upper
93	100		
95	74.4	65.0	97.6
174	85.1	71.6	107.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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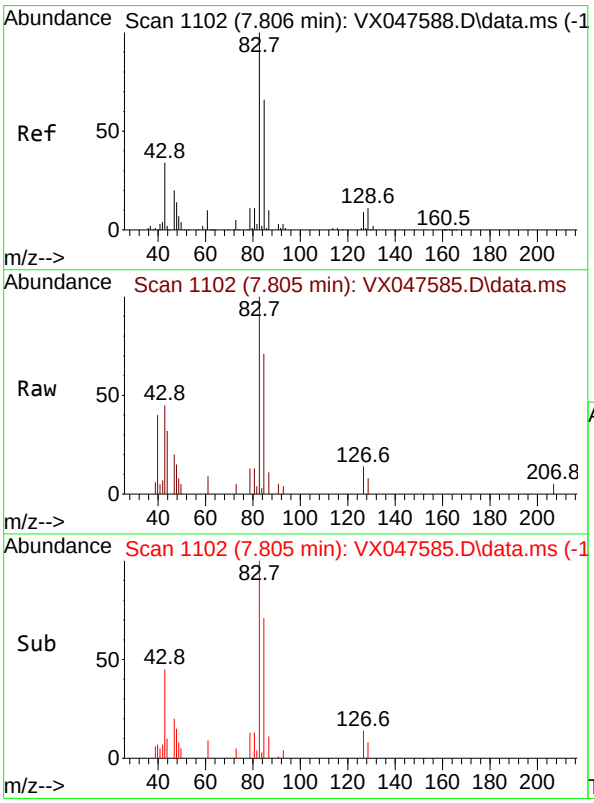
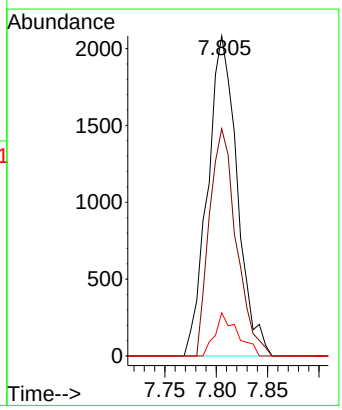
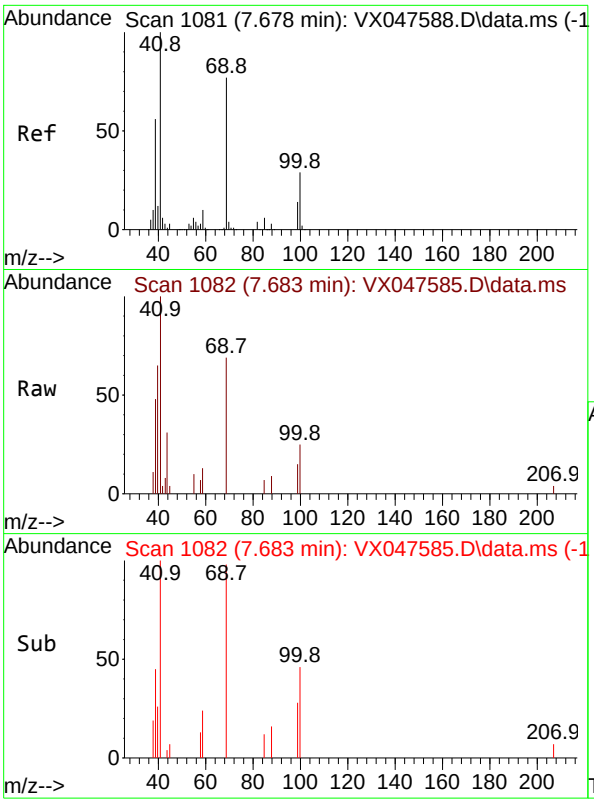


#47
Bromodichloromethane
Concen: 0.806 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4167

Ion	Ratio	Lower	Upper
83	100		
85	71.0	52.5	78.7
127	13.5	6.9	10.3#





#48
Methyl methacrylate
Concen: 0.867 ug/l
RT: 7.683 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 335

Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2#
39	59.5	45.8	68.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
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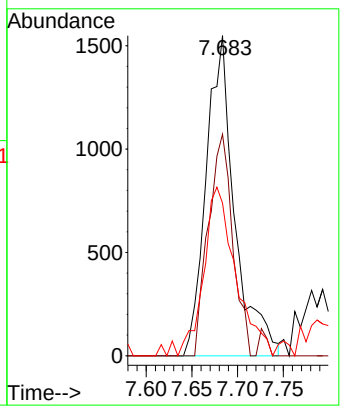
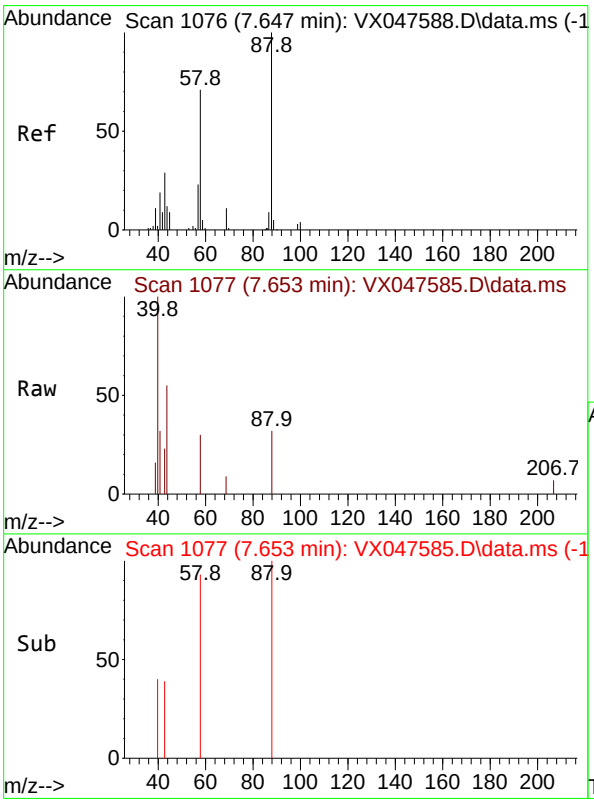
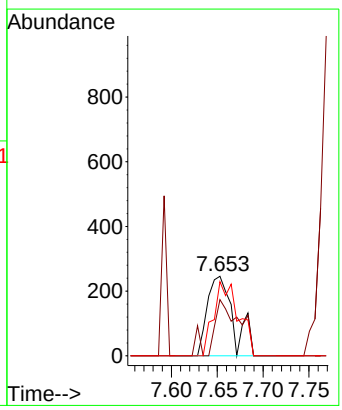


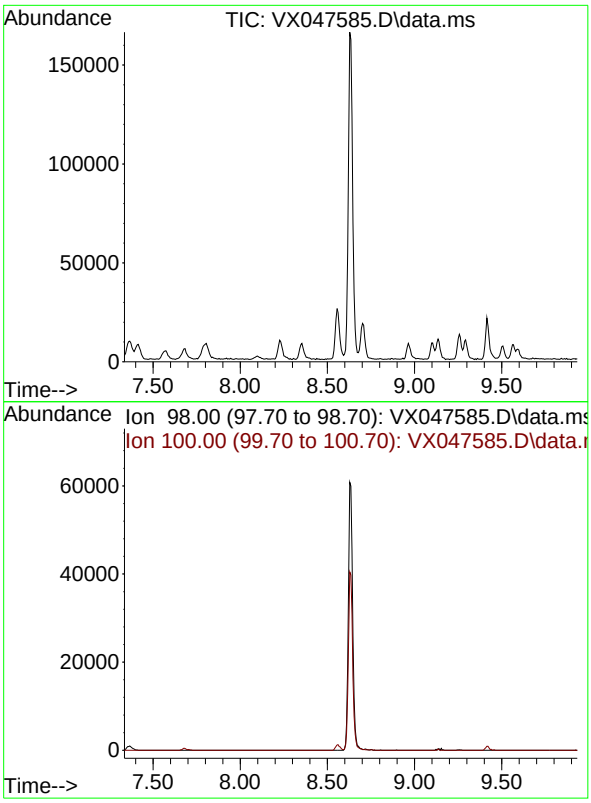


#49
1,4-Dioxane
Concen: 12.477 ug/l m
RT: 7.653 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 88 Resp: 488

Ion	Ratio	Lower	Upper
88	100		
43	64.1	30.2	45.2#
58	88.9	59.5	89.3





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.63 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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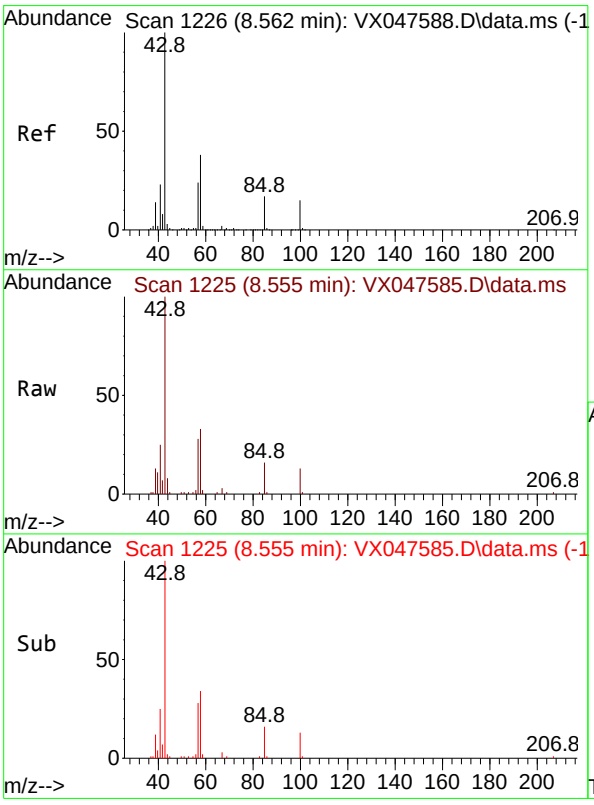
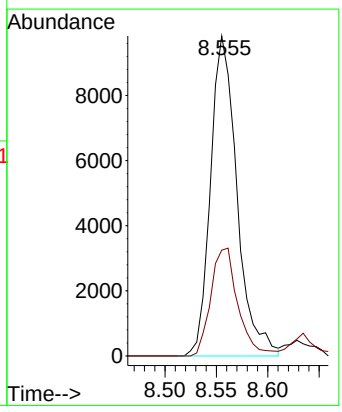
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

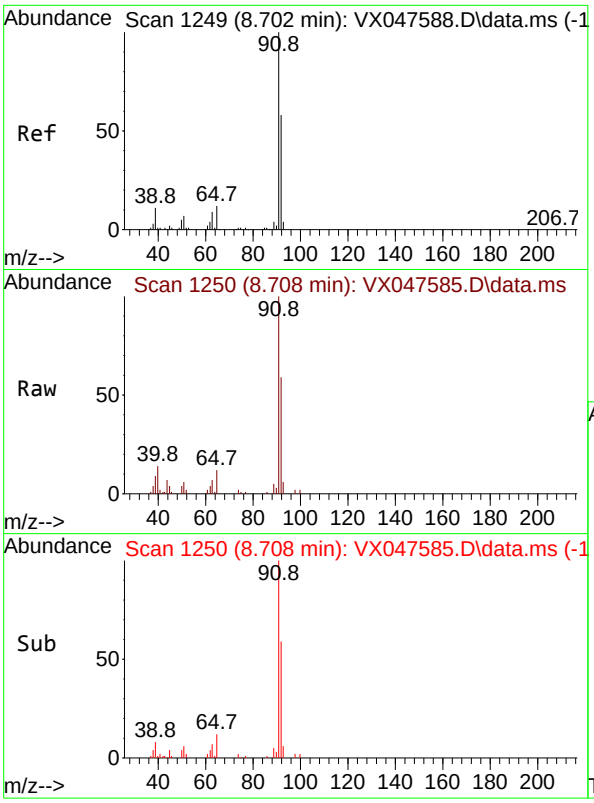


#51
4-Methyl-2-Pentanone
Concen: 4.085 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 17596

Ion	Ratio	Lower	Upper
43	100		
58	34.7	30.3	45.5

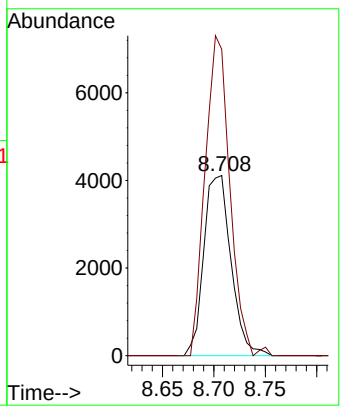




#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 92 Resp: 759

Ion	Ratio	Lower	Upper
92	100		
91	160.7	137.1	205.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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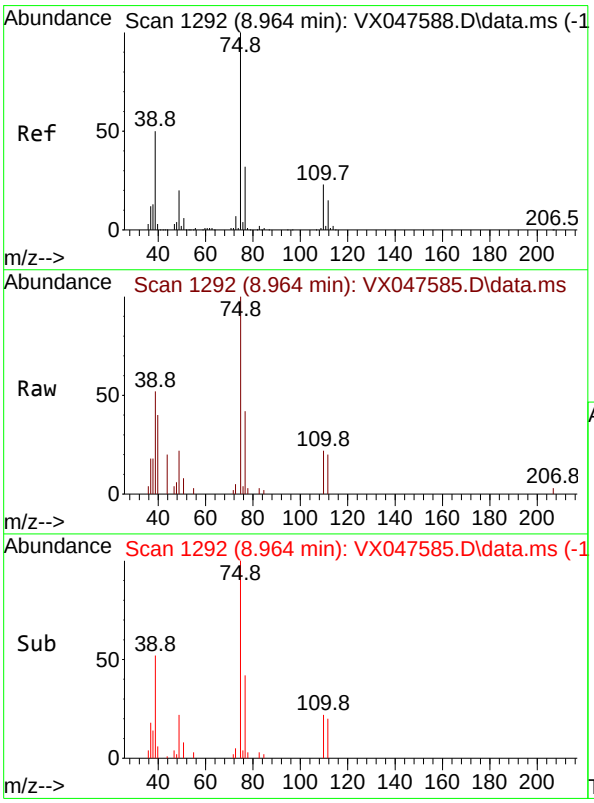
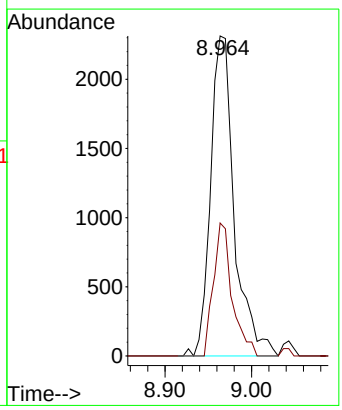
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

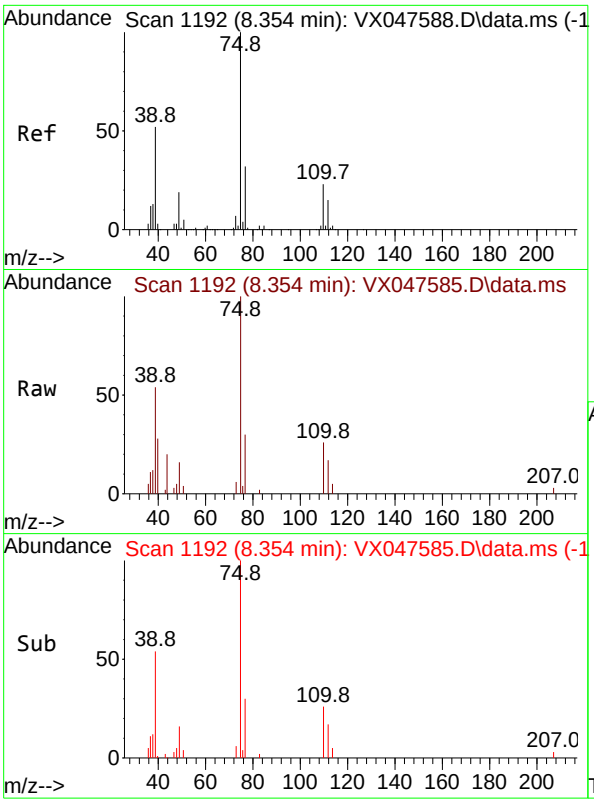


#53
t-1,3-Dichloropropene
Concen: 0.834 ug/l
RT: 8.964 min Scan# 1292
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 4398

Ion	Ratio	Lower	Upper
75	100		
77	41.5	25.4	38.2#

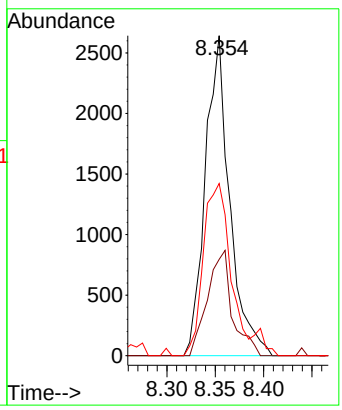




#54
cis-1,3-Dichloropropene
Concen: 0.823 ug/l
RT: 8.354 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 463

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.8	38.6
39	25.6	41.4	62.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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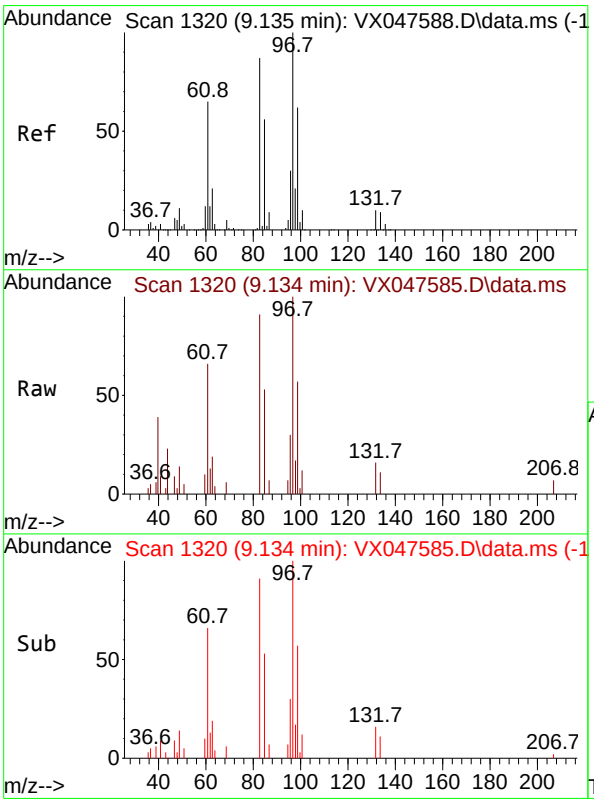
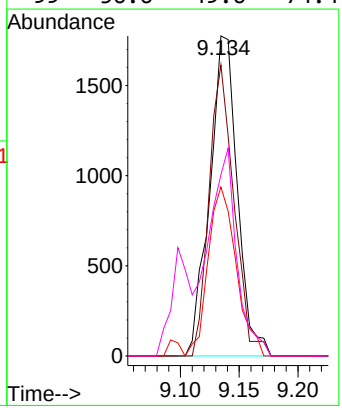
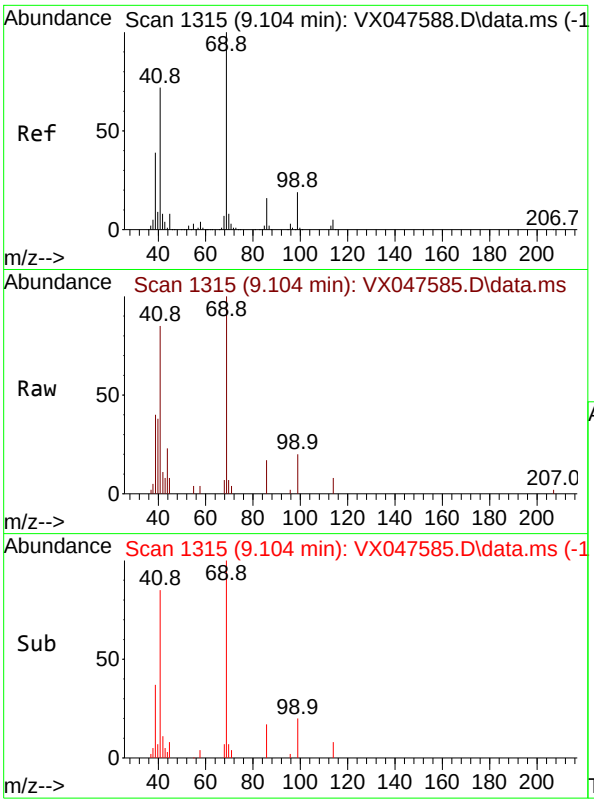


#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.134 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 2918

Ion	Ratio	Lower	Upper
97	100		
83	90.9	69.6	104.4
85	52.8	45.0	67.6
99	56.6	49.6	74.4

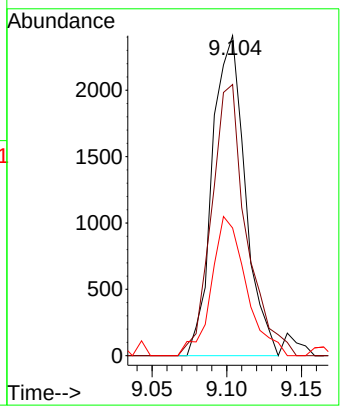




#56
Ethyl methacrylate
Concen: 0.734 ug/l
RT: 9.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 69 Resp: 367

Ion	Ratio	Lower	Upper
69	100		
41	89.4	58.6	87.8
39	46.0	31.5	47.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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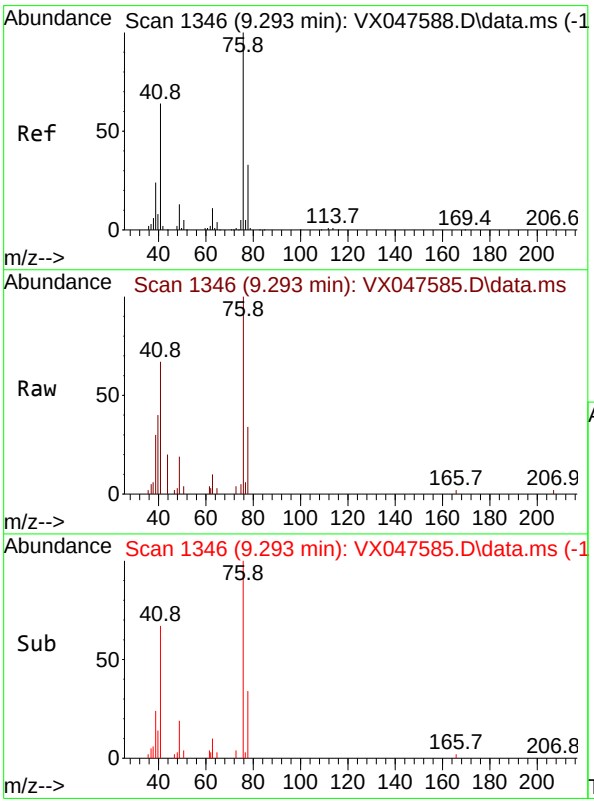
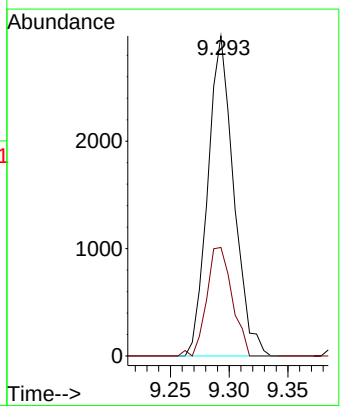
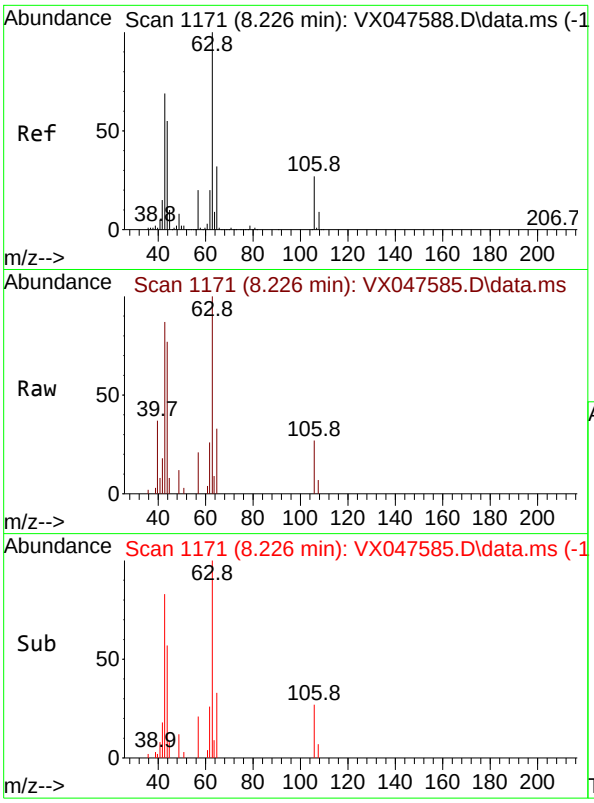


#57
1,3-Dichloropropane
Concen: 0.835 ug/l
RT: 9.293 min Scan# 1346
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 76 Resp: 4580

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4

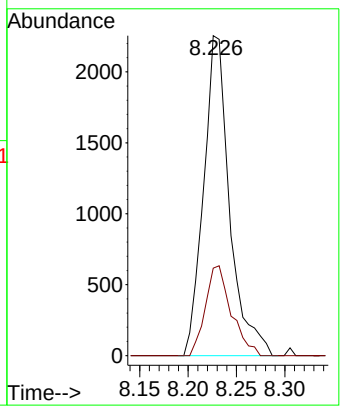




#58
2-Chloroethyl Vinyl ether
Concen: 9.665 ug/l
RT: 8.226 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 63 Resp: 422

Ion	Ratio	Lower	Upper
63	100		
106	27.9	21.9	32.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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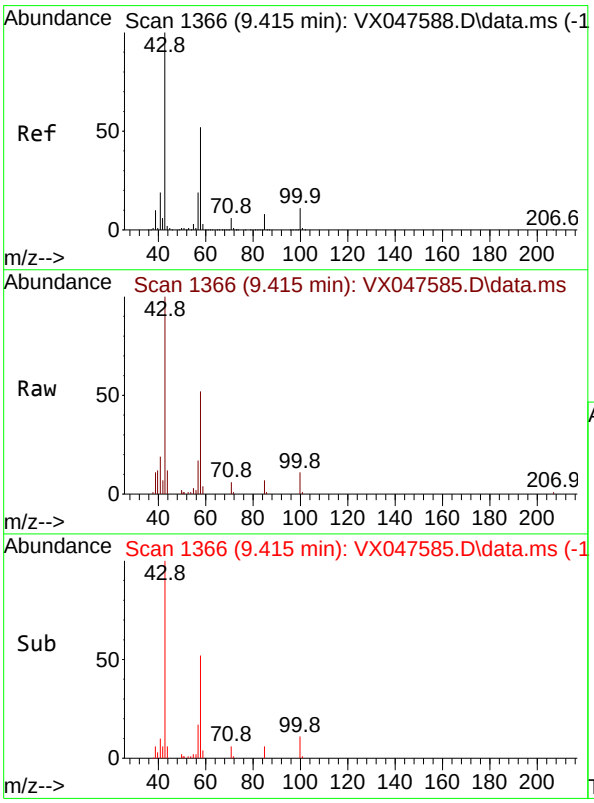
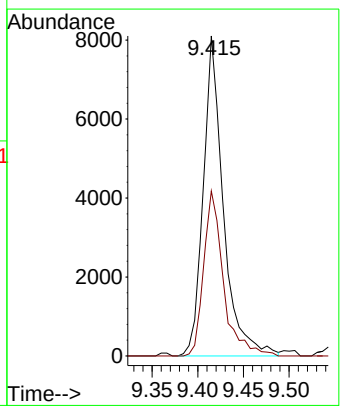
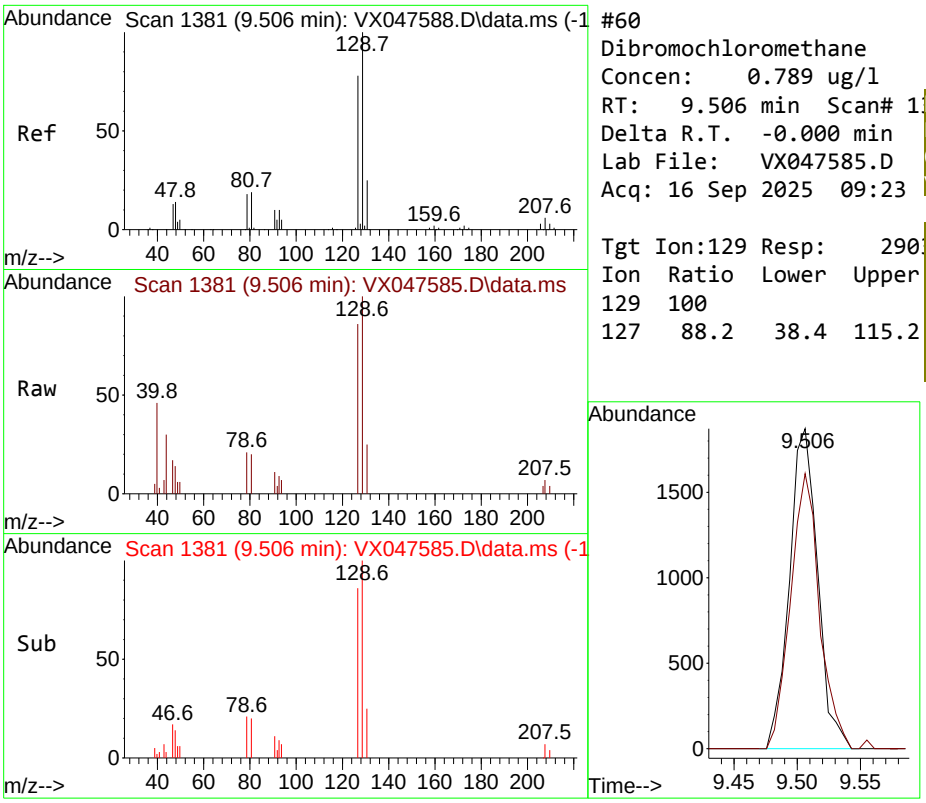


#59
2-Hexanone
Concen: 4.003 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 12385

Ion	Ratio	Lower	Upper
43	100		
58	50.7	26.1	78.2





#60
Dibromochloromethane
Concen: 0.789 ug/l
RT: 9.506 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:129 Resp: 290

Ion	Ratio	Lower	Upper
129	100		
127	88.2	38.4	115.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 09/17/2025
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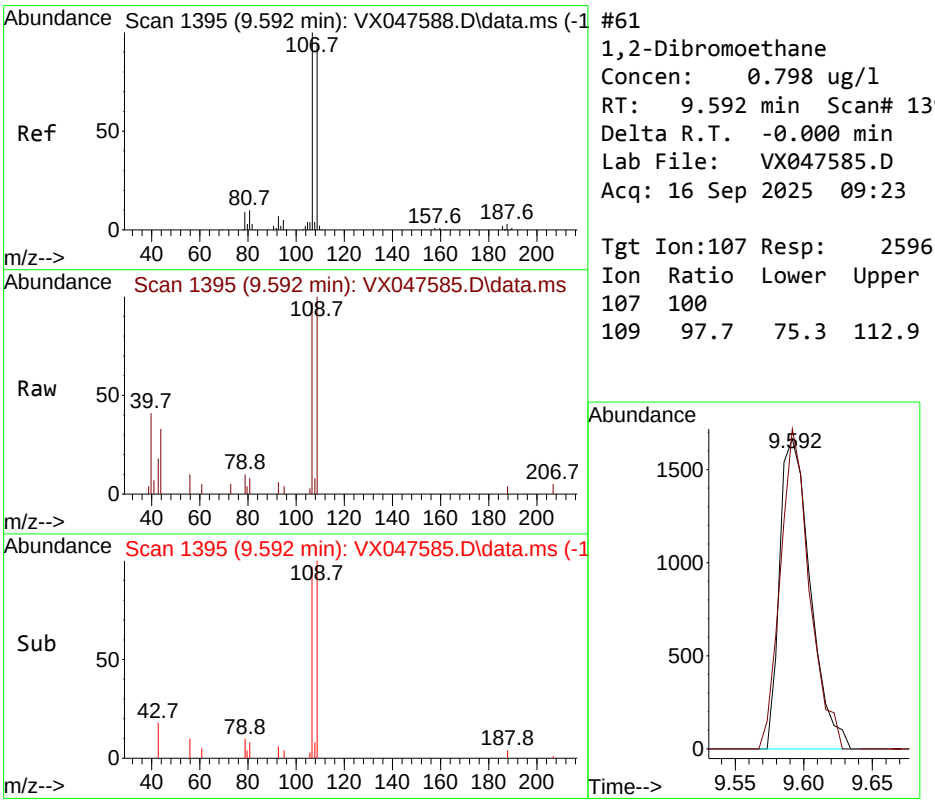
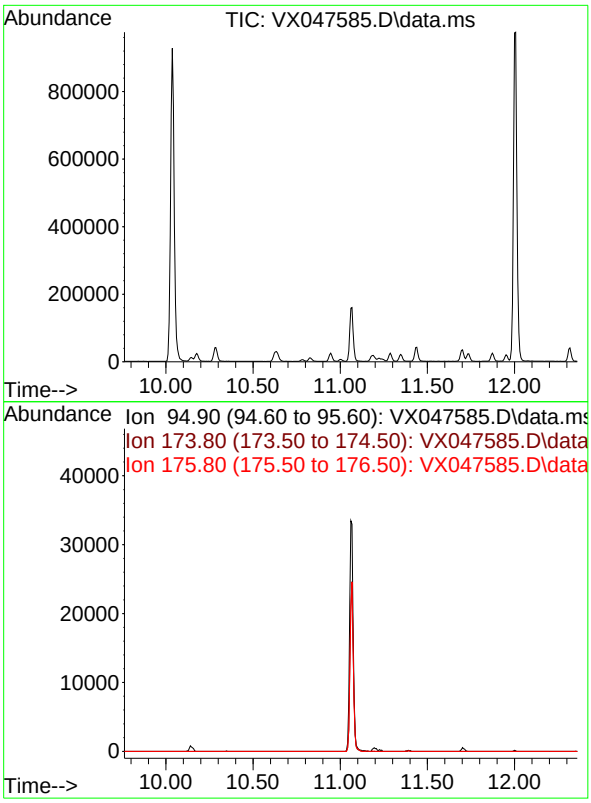


#61
1,2-Dibromoethane
Concen: 0.798 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:107 Resp: 2596

Ion	Ratio	Lower	Upper
107	100		
109	97.7	75.3	112.9



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.06 min

Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	70.8
176	69.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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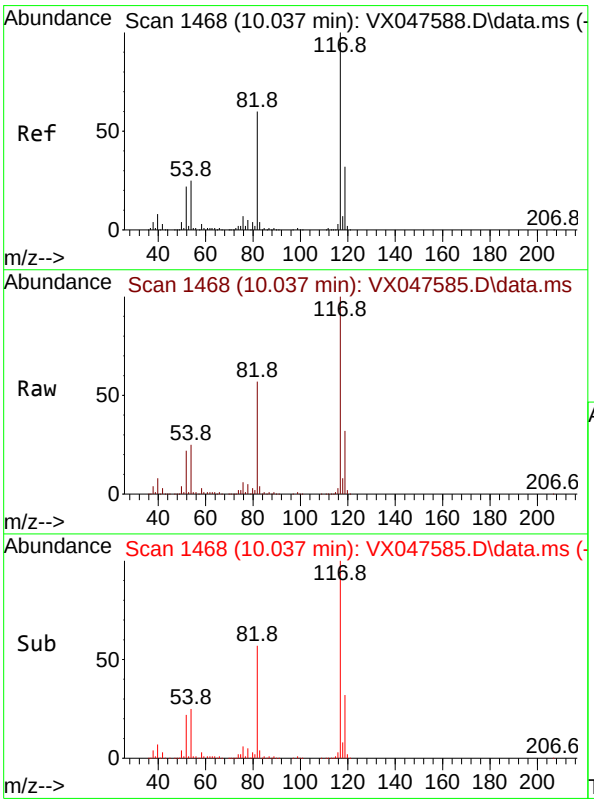
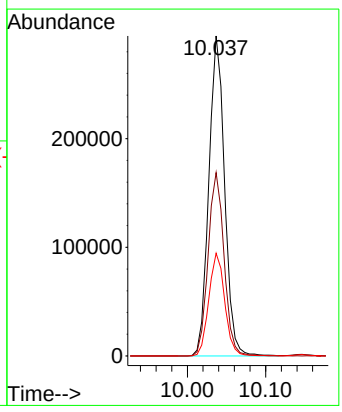
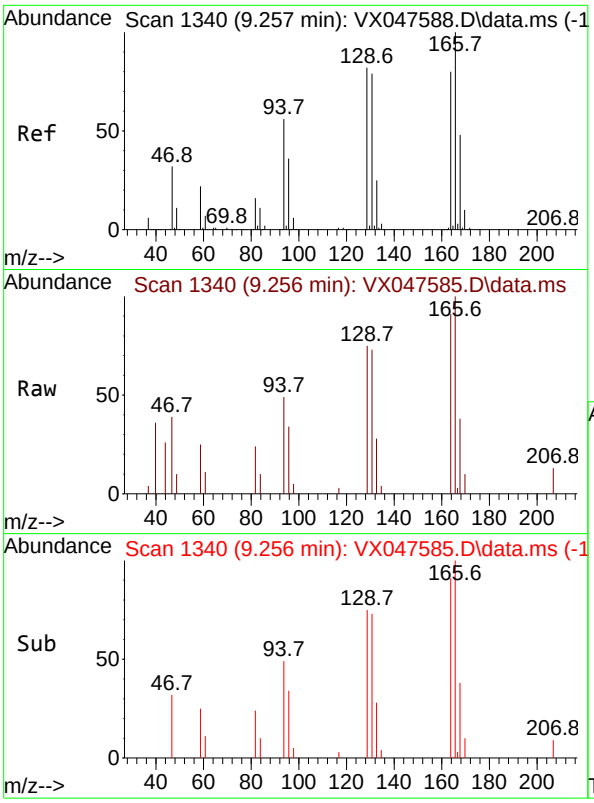


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 410953

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.8	71.6
119	32.1	25.2	37.8

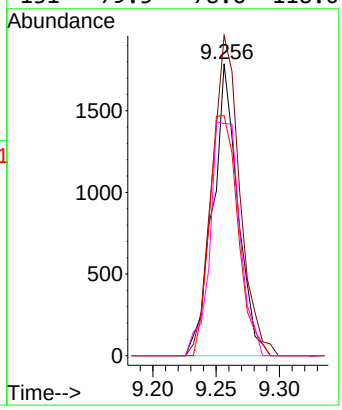




#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 9.256 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:164 Resp: 245

Ion	Ratio	Lower	Upper
164	100		
166	109.6	100.2	150.2
129	82.2	81.8	122.6
131	79.5	78.6	118.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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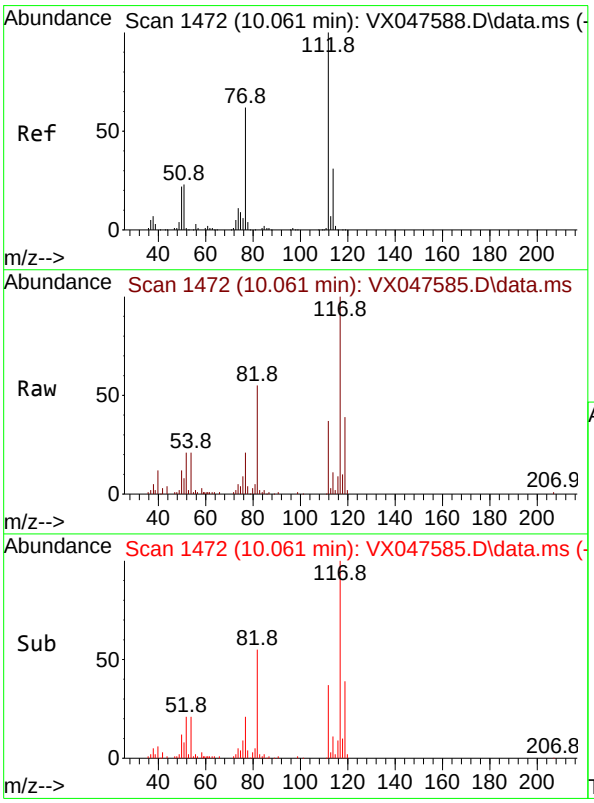
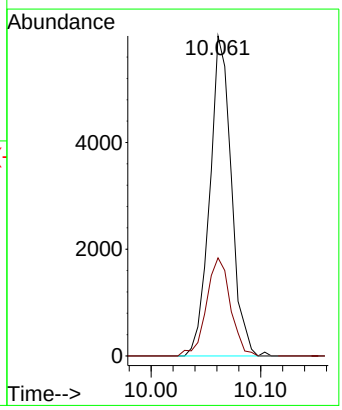
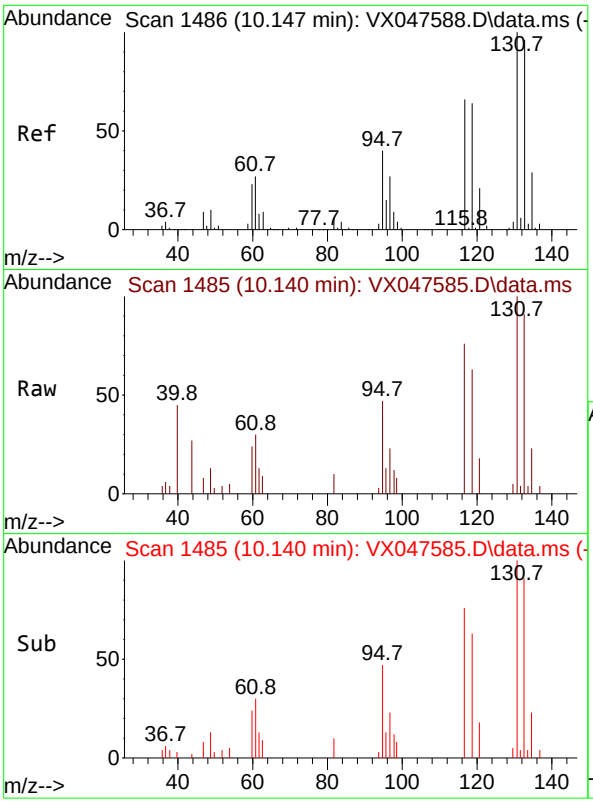


#65
Chlorobenzene
Concen: 0.879 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:112 Resp: 8202

Ion	Ratio	Lower	Upper
112	100		
114	30.7	25.1	37.7

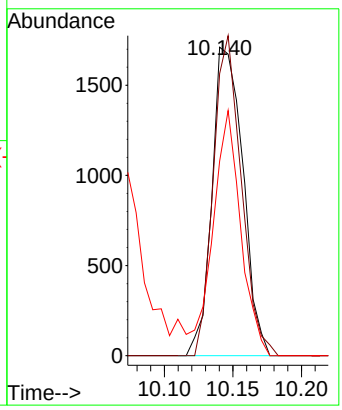




#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:131 Resp: 268

Ion	Ratio	Lower	Upper
131	100		
133	93.9	47.3	142.0
119	0.0	32.0	96.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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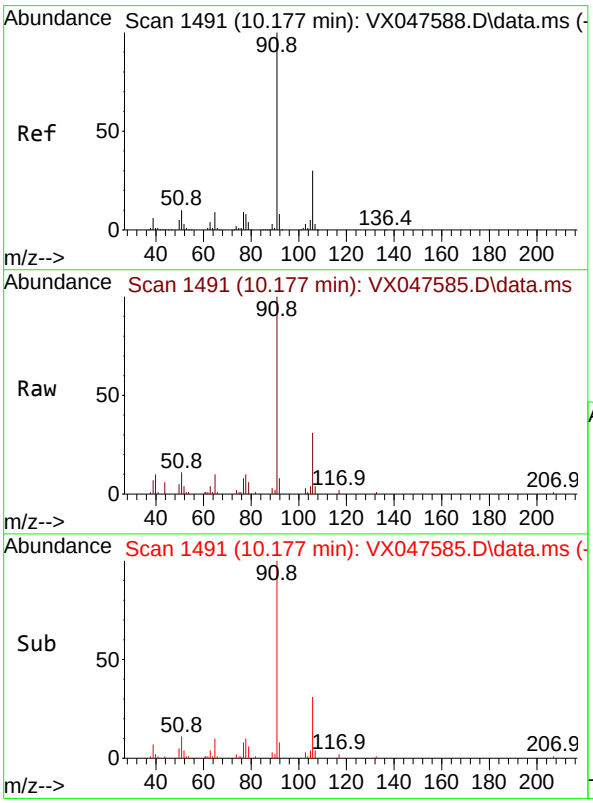
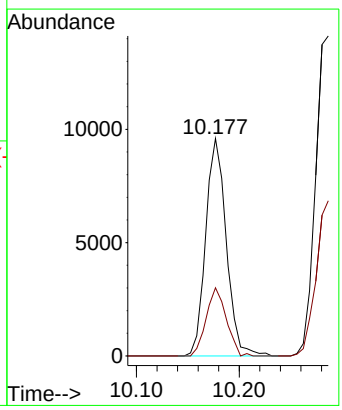
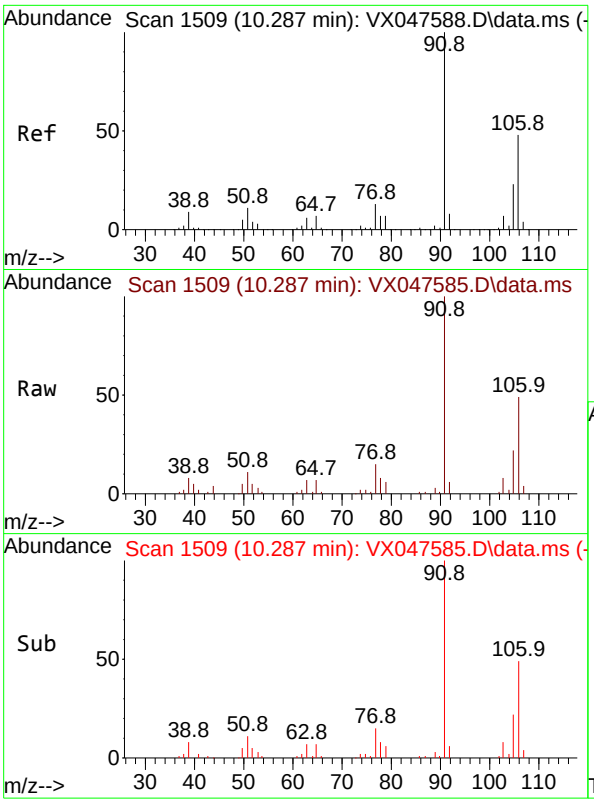


#67
Ethyl Benzene
Concen: 0.829 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 13360

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.3	36.5

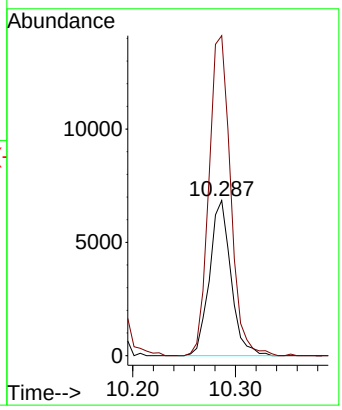




#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 992

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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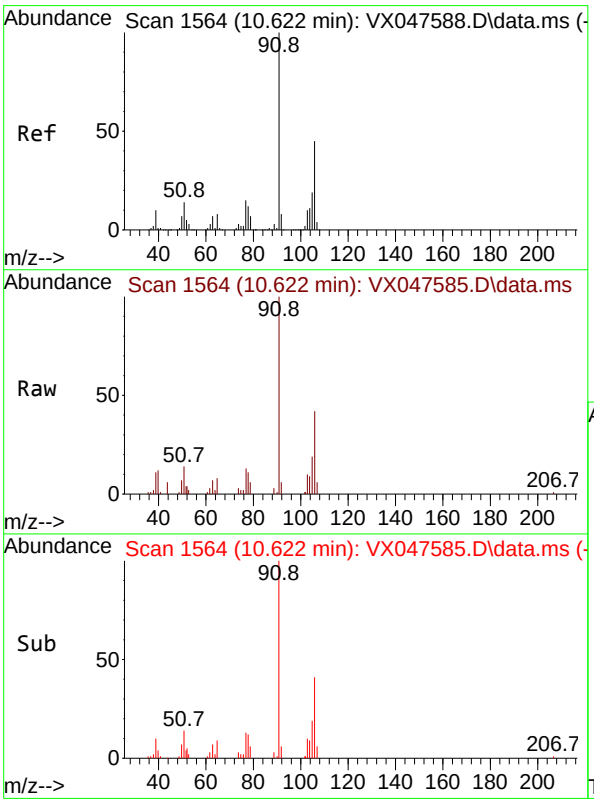
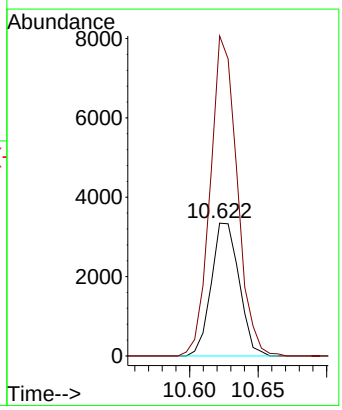
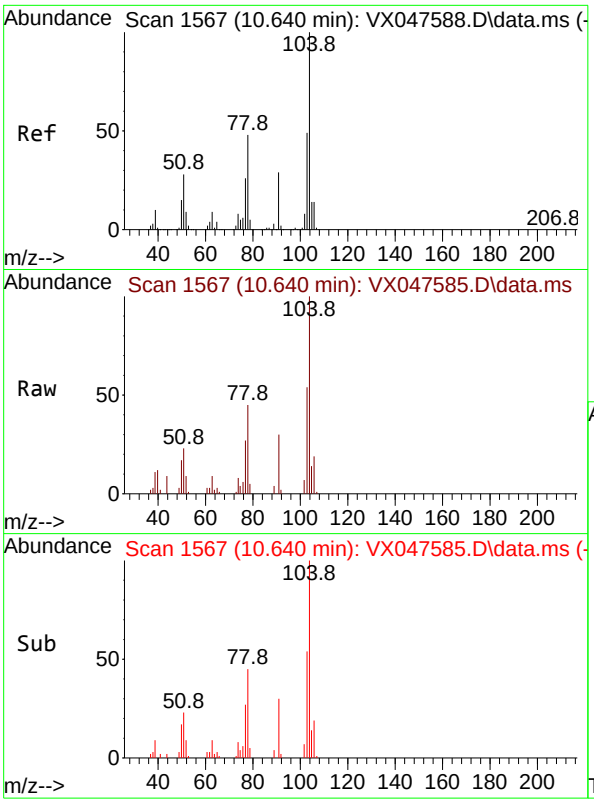


#69
o-Xylene
Concen: 0.816 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 4734

Ion	Ratio	Lower	Upper
106	100		
91	232.4	111.1	333.4

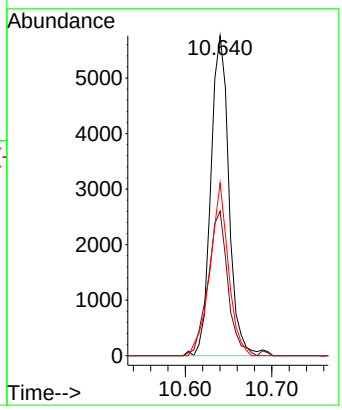




#70
Styrene
Concen: 0.824 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:104 Resp: 837

Ion	Ratio	Lower	Upper
104	100		
78	49.5	43.1	64.7
103	55.0	43.1	64.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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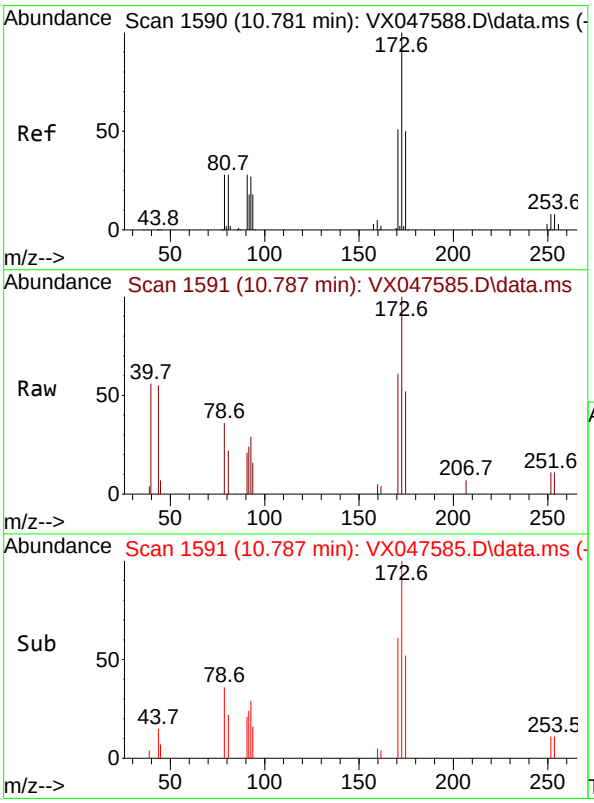
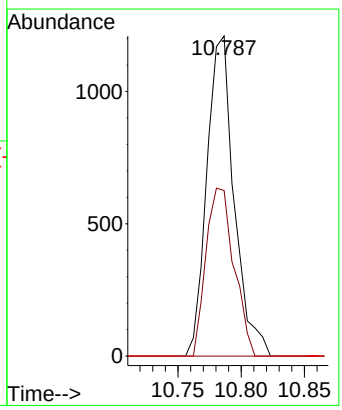
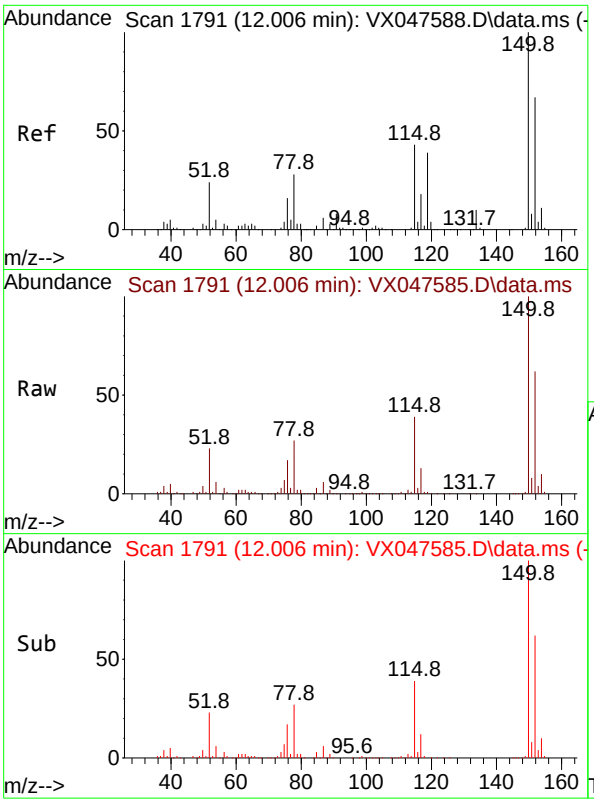


#71
Bromoform
Concen: 0.755 ug/l
RT: 10.787 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:173 Resp: 1816

Ion	Ratio	Lower	Upper
173	100		
175	53.8	24.9	74.6
254	0.0	0.1	0.1#

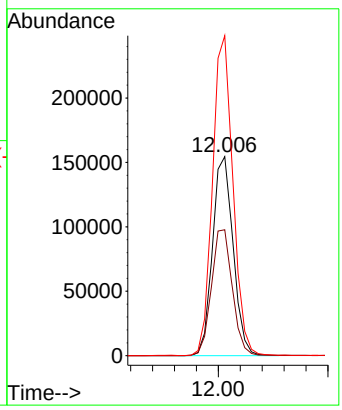




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:152 Resp: 20197

Ion	Ratio	Lower	Upper
152	100		
115	64.2	44.9	134.5
150	158.7	0.0	352.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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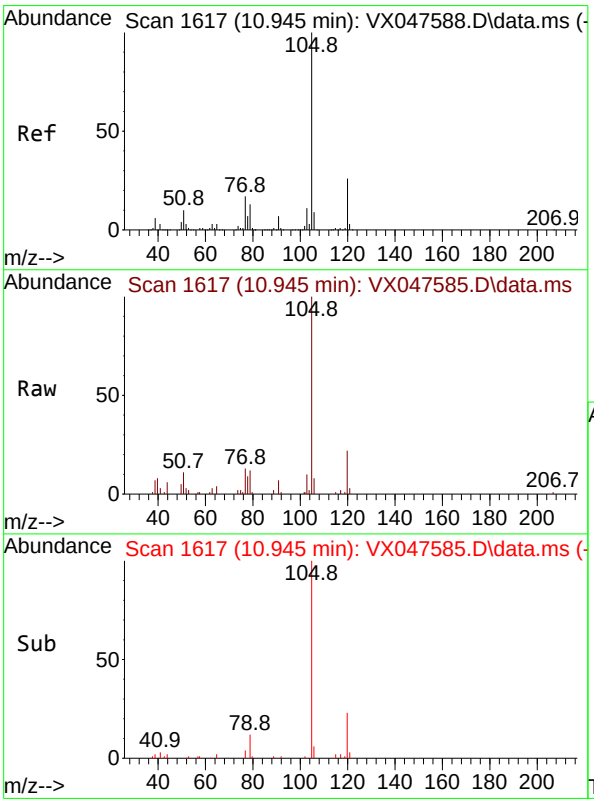
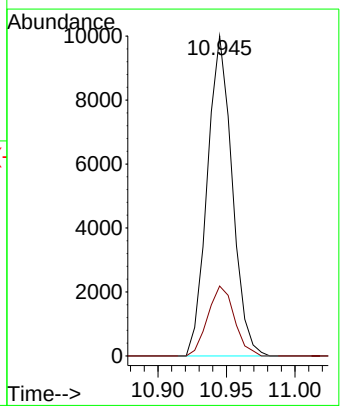
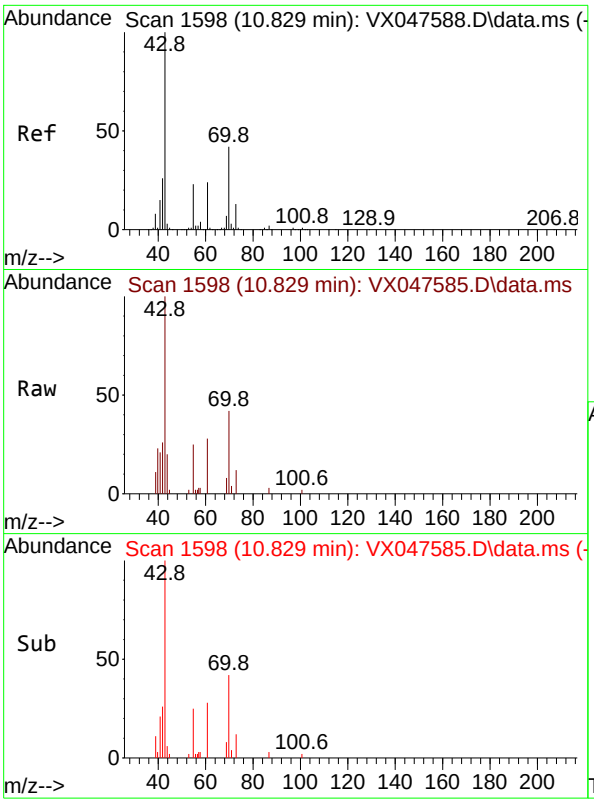


#73
Isopropylbenzene
Concen: 0.822 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 12618

Ion	Ratio	Lower	Upper
105	100		
120	23.4	12.8	38.4

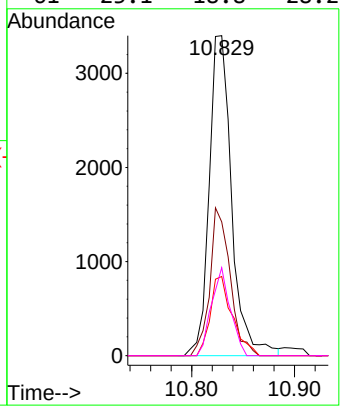




#74
N-amyl acetate
Concen: 0.737 ug/l
RT: 10.829 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 515

Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.0	48.0
55	24.3	18.9	28.3
61	23.1	18.8	28.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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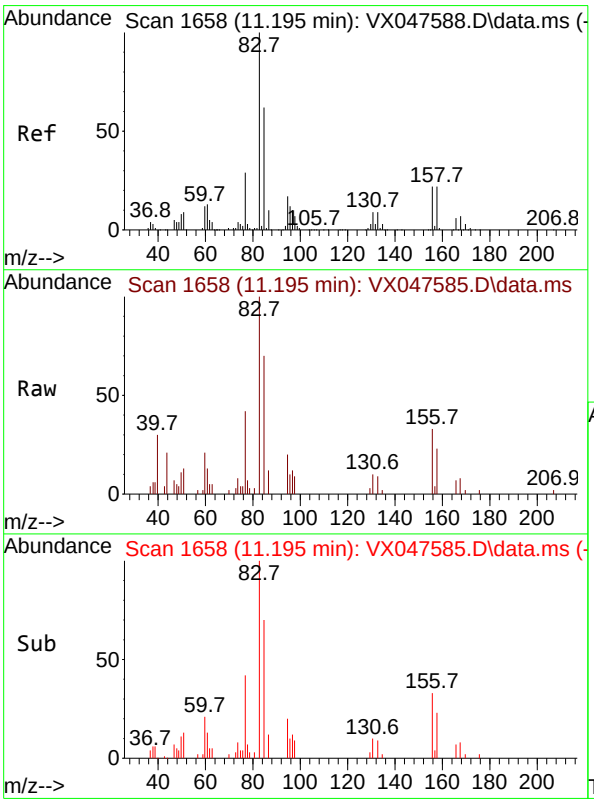
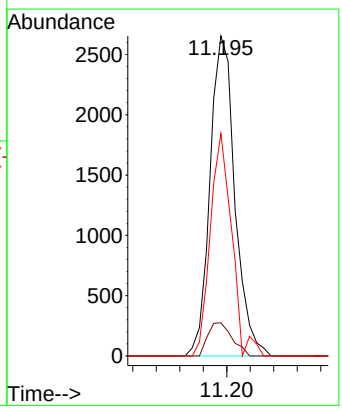
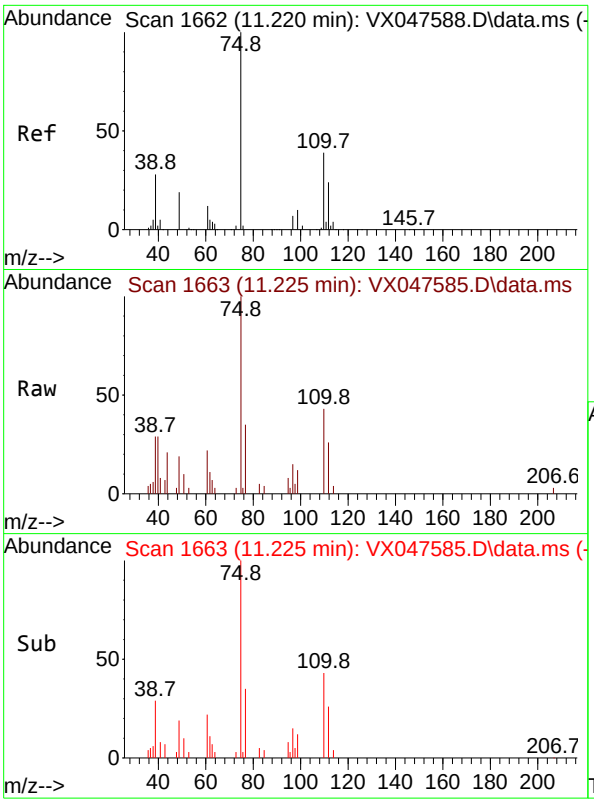


#75
1,1,2,2-Tetrachloroethane
Concen: 0.839 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 3900

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	59.8	31.6	95.0





#76
1,2,3-Trichloropropane
Concen: 0.816 ug/l m
RT: 11.225 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 342

Ion	Ratio	Lower	Upper
75	100		
77	34.6	18.8	56.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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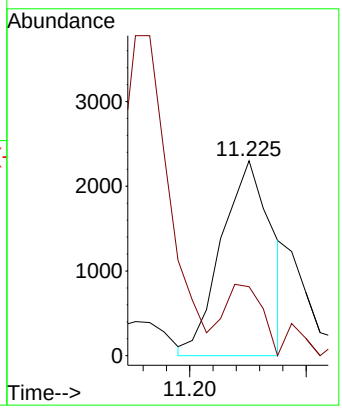
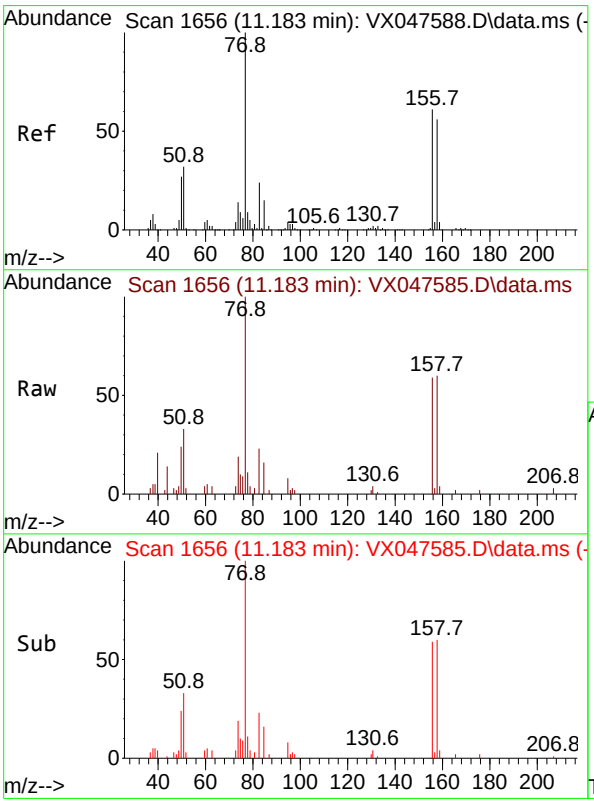
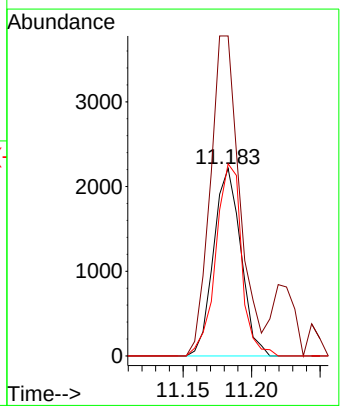


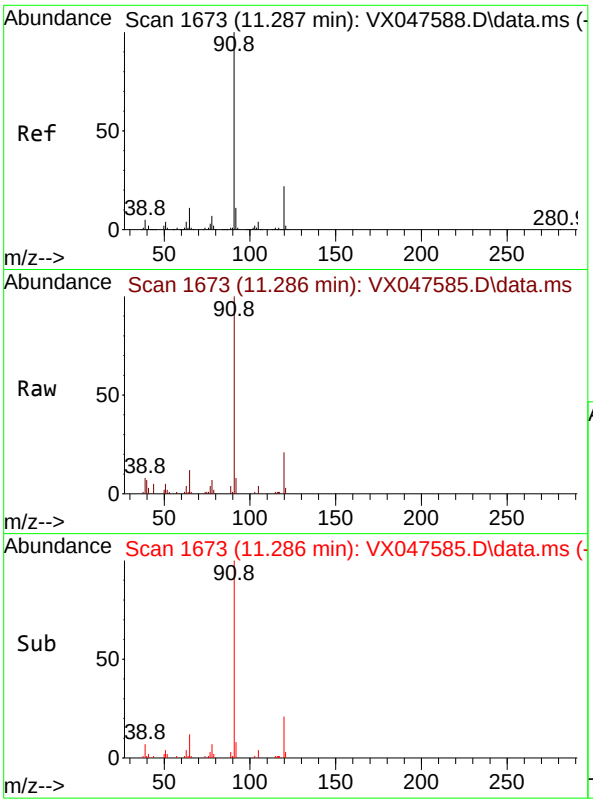


#77
Bromobenzene
Concen: 0.811 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:156 Resp: 3069

Ion	Ratio	Lower	Upper
156	100		
77	182.3	89.7	269.1
158	96.6	47.9	143.6

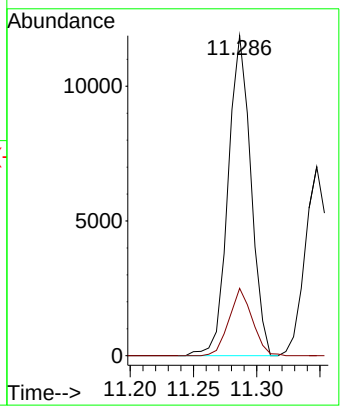




#78
n-propylbenzene
Concen: 0.819 ug/l
RT: 11.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 1486

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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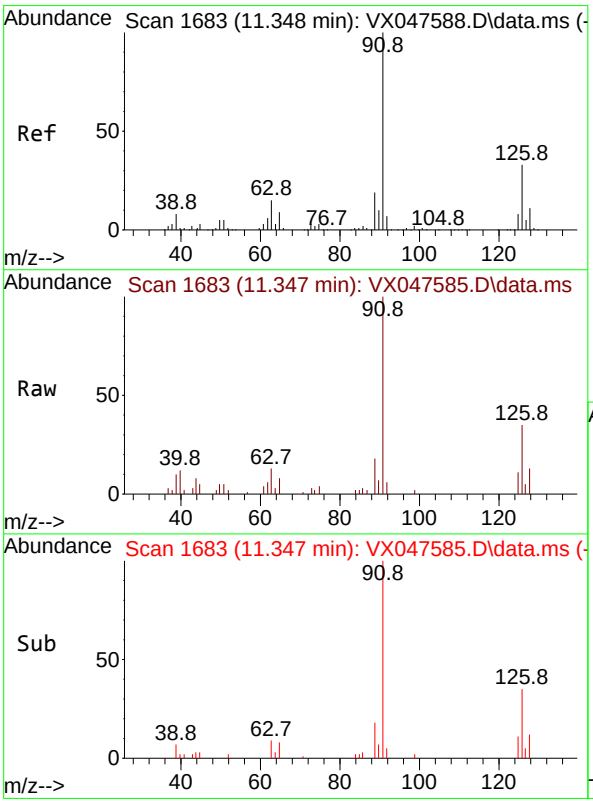
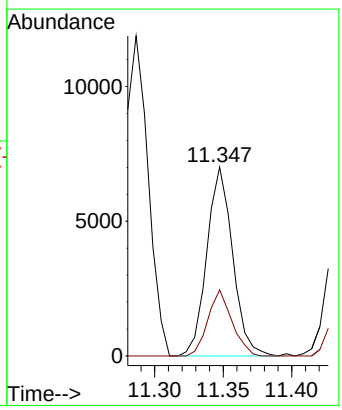
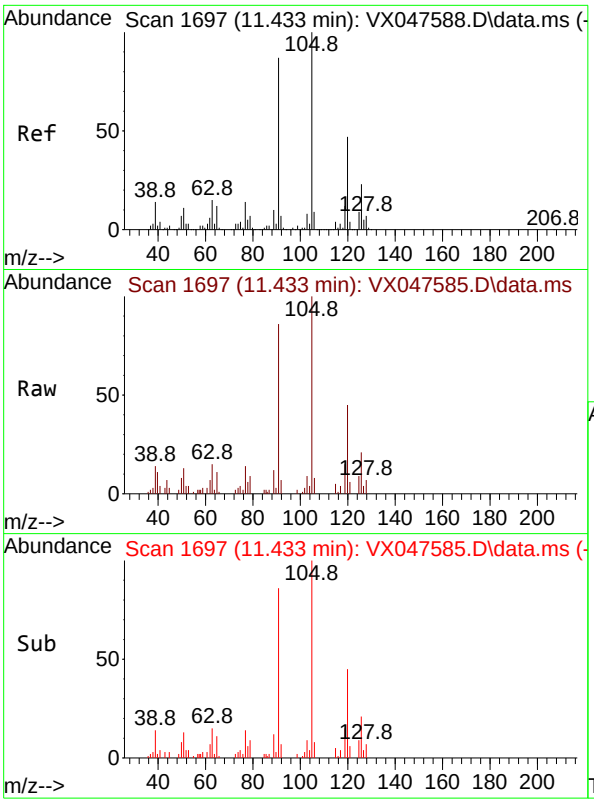


#79
2-Chlorotoluene
Concen: 0.827 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 9195

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.1	48.3

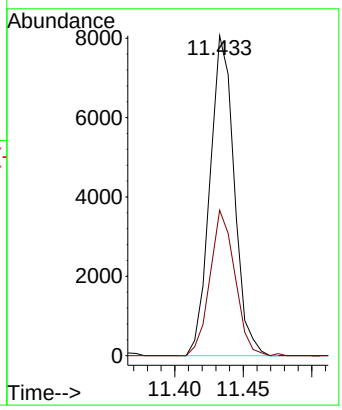




#80
1,3,5-Trimethylbenzene
Concen: 0.787 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 992

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.6	70.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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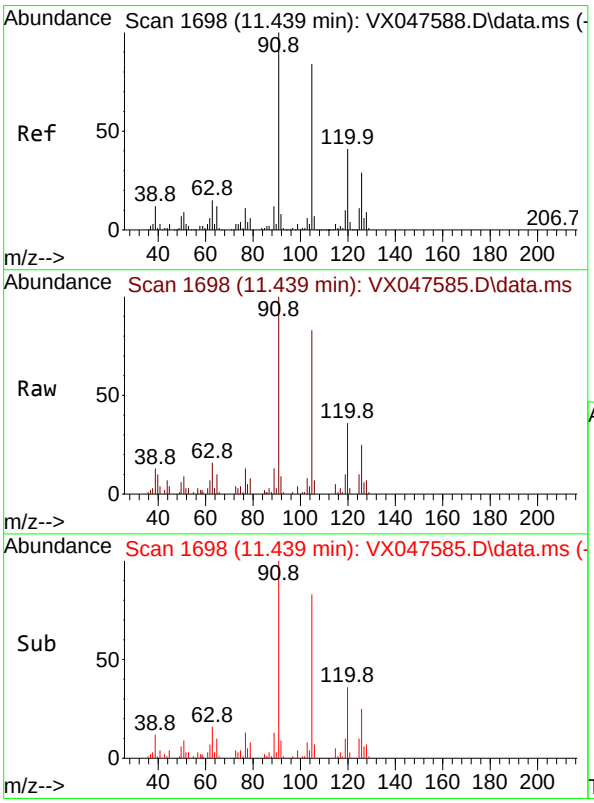
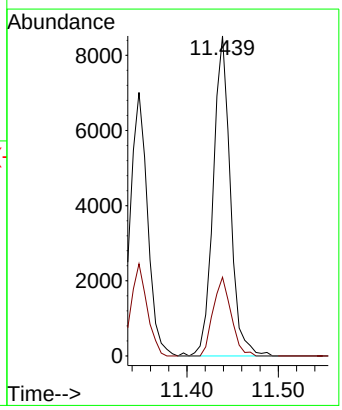
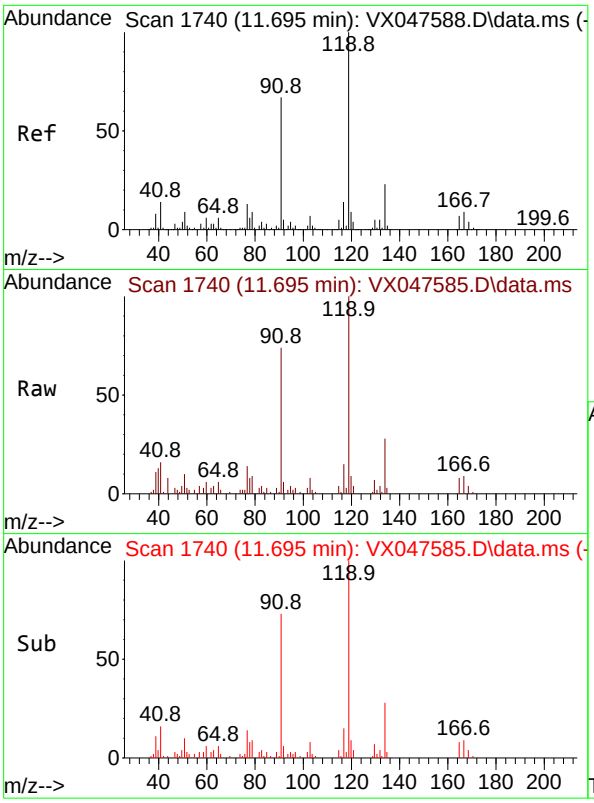


#82
4-Chlorotoluene
Concen: 0.847 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 11123

Ion	Ratio	Lower	Upper
91	100		
126	25.8	14.2	42.6

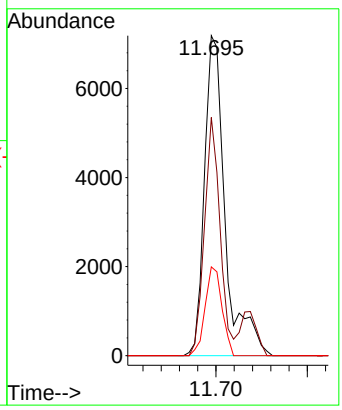




#83
tert-Butylbenzene
Concen: 0.876 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 1131

Ion	Ratio	Lower	Upper
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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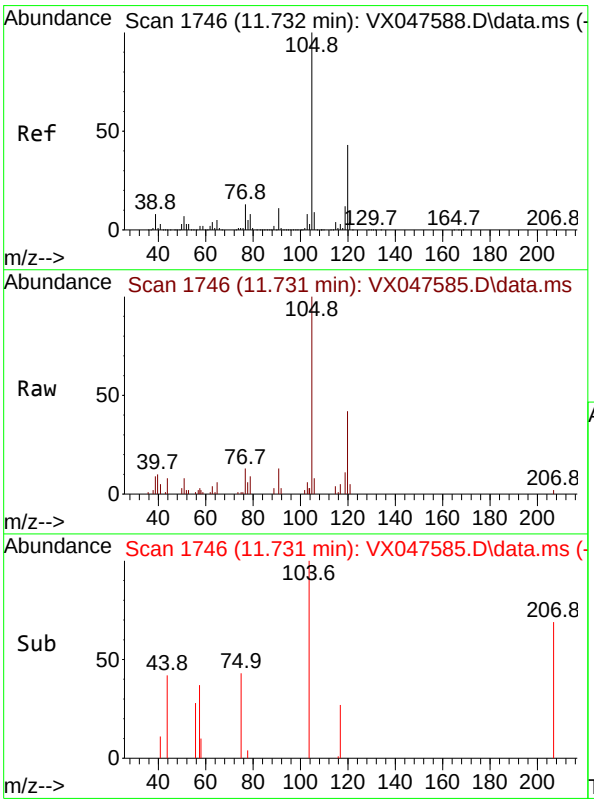
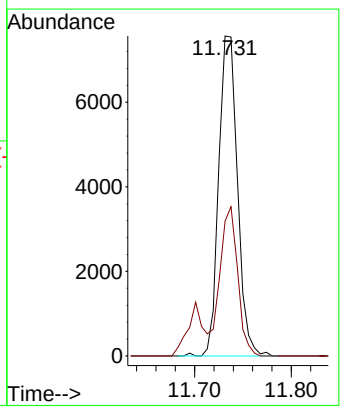
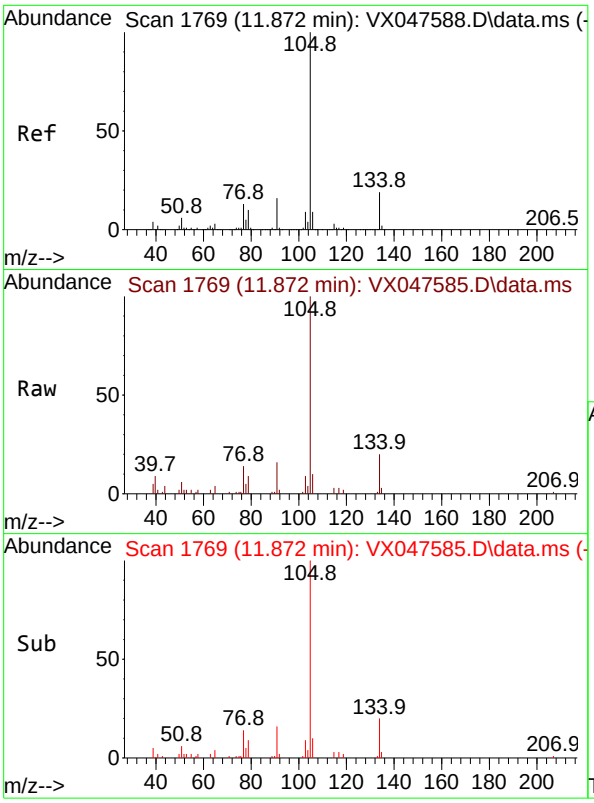


#84
1,2,4-Trimethylbenzene
Concen: 0.796 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 10187

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1

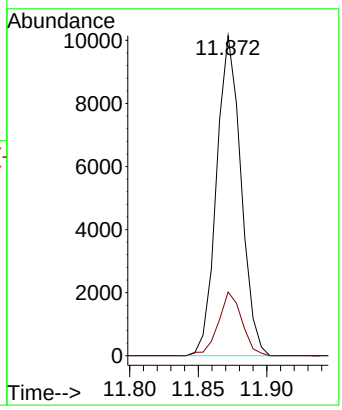




#85
sec-Butylbenzene
Concen: 0.819 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:105 Resp: 1256

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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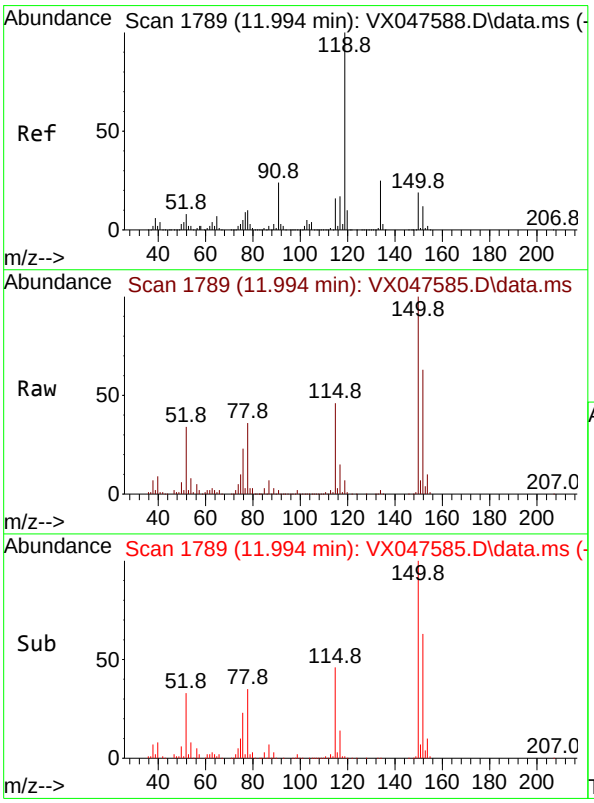
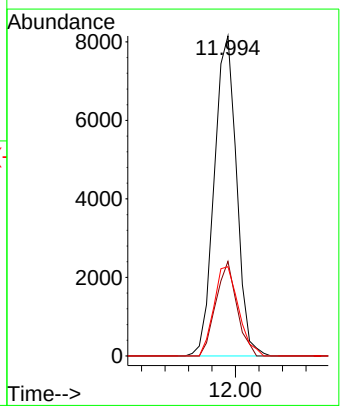
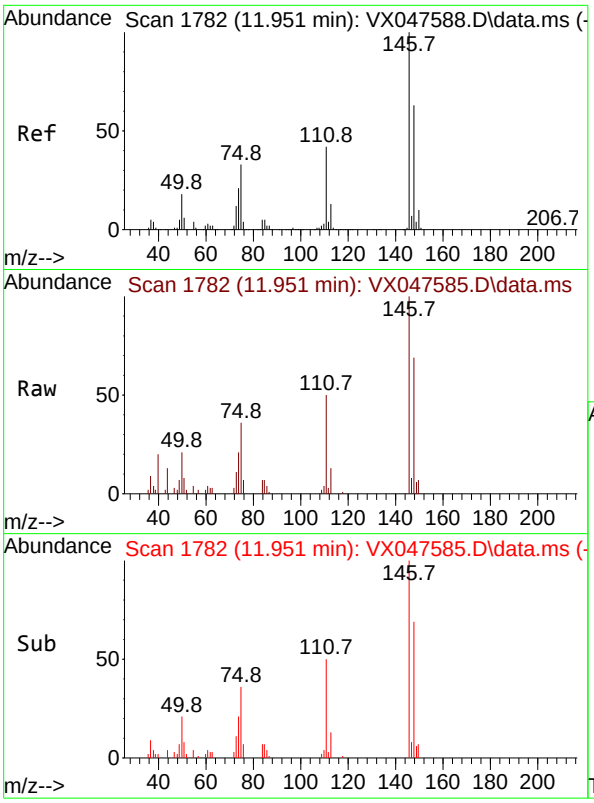


#86
p-Isopropyltoluene
Concen: 0.827 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:119 Resp: 10744

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.6	37.8
91	30.8	12.6	37.6

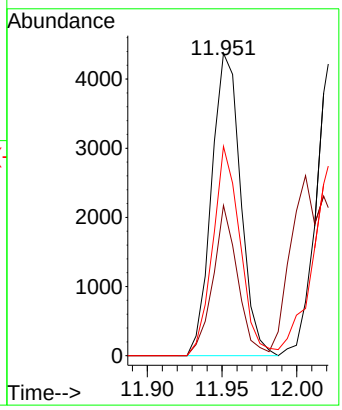




#87
1,3-Dichlorobenzene
Concen: 0.841 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 590

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	65.5	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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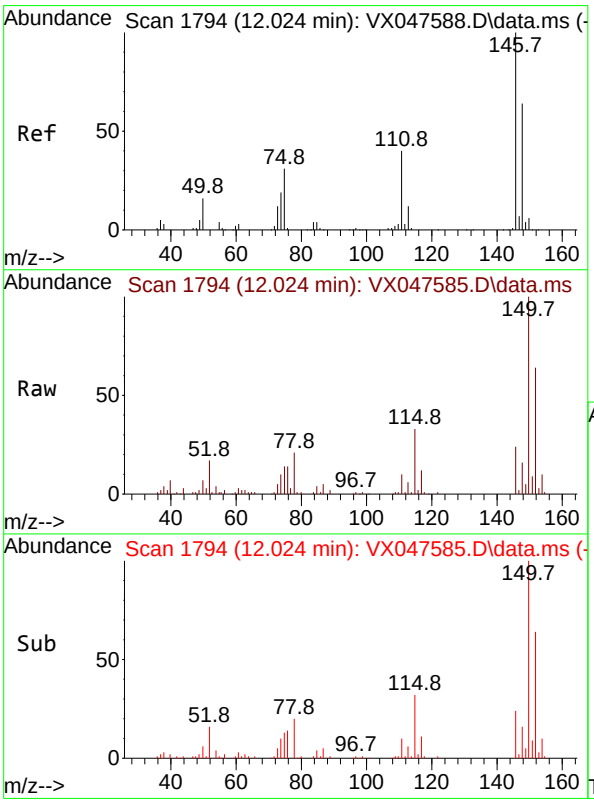
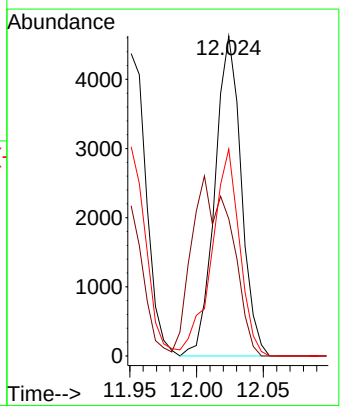
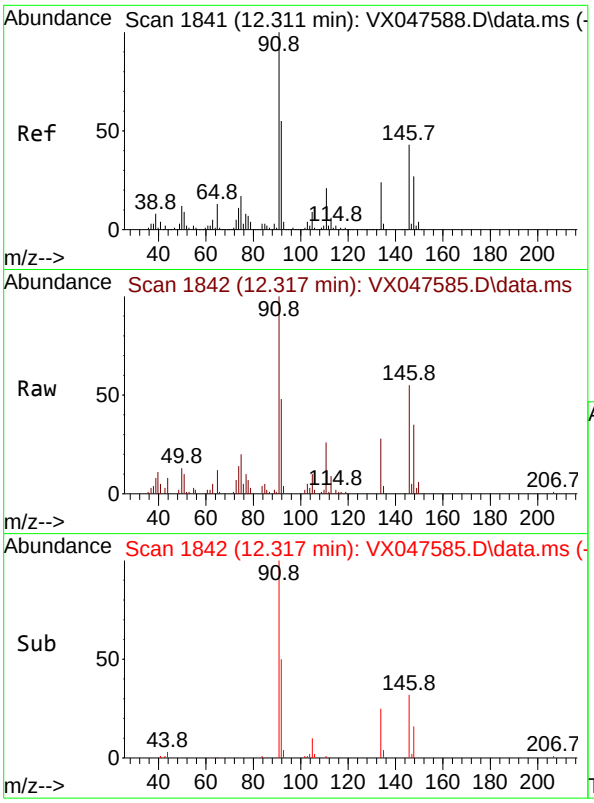


#88
1,4-Dichlorobenzene
Concen: 0.880 ug/l m
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 6341

Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.8	62.4
148	61.1	31.7	95.1

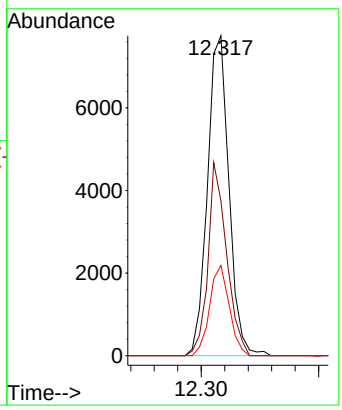




#89
n-Butylbenzene
Concen: 0.816 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 981

Ion	Ratio	Lower	Upper
91	100		
92	52.4	27.6	82.7
134	25.9	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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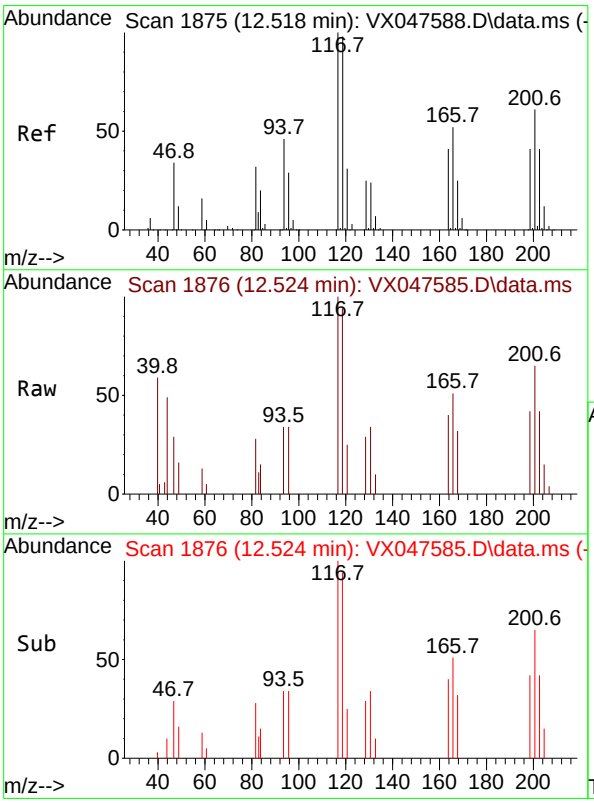
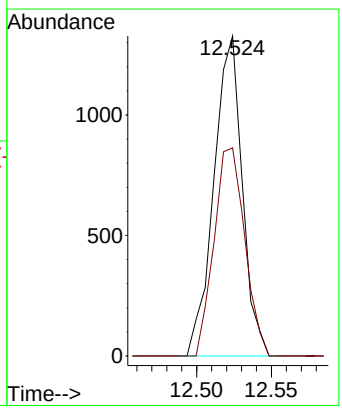
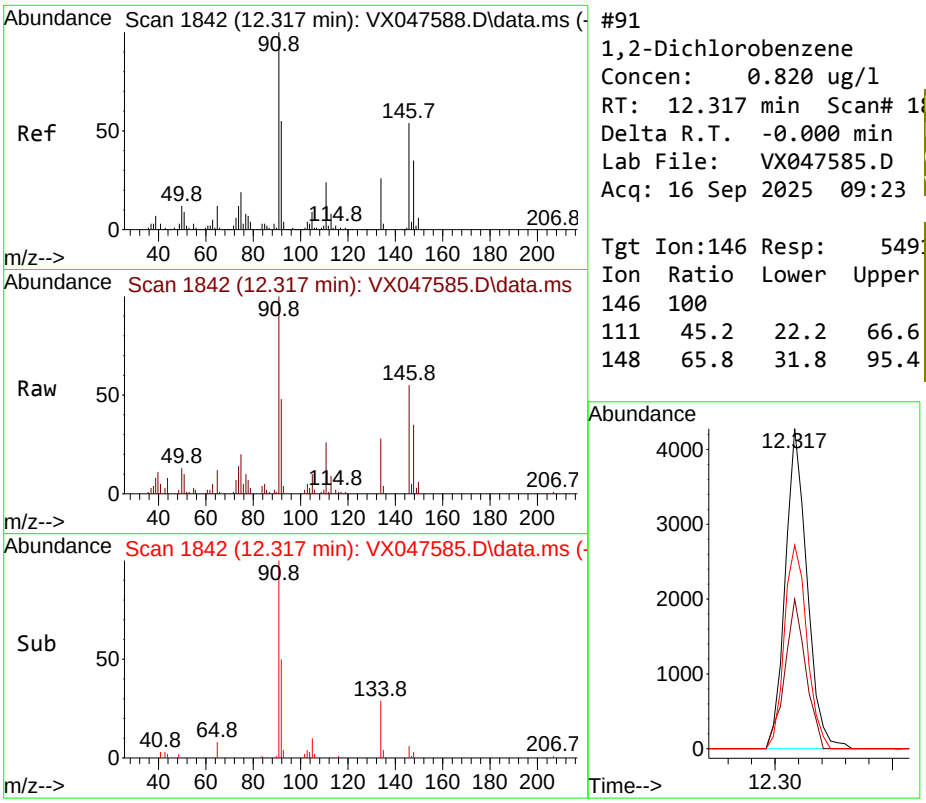


#90
Hexachloroethane
Concen: 0.768 ug/l
RT: 12.524 min Scan# 1876
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:117 Resp: 1752

Ion	Ratio	Lower	Upper
117	100		
201	70.4	34.2	102.5





#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:146 Resp: 549

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.2	66.6
148	65.8	31.8	95.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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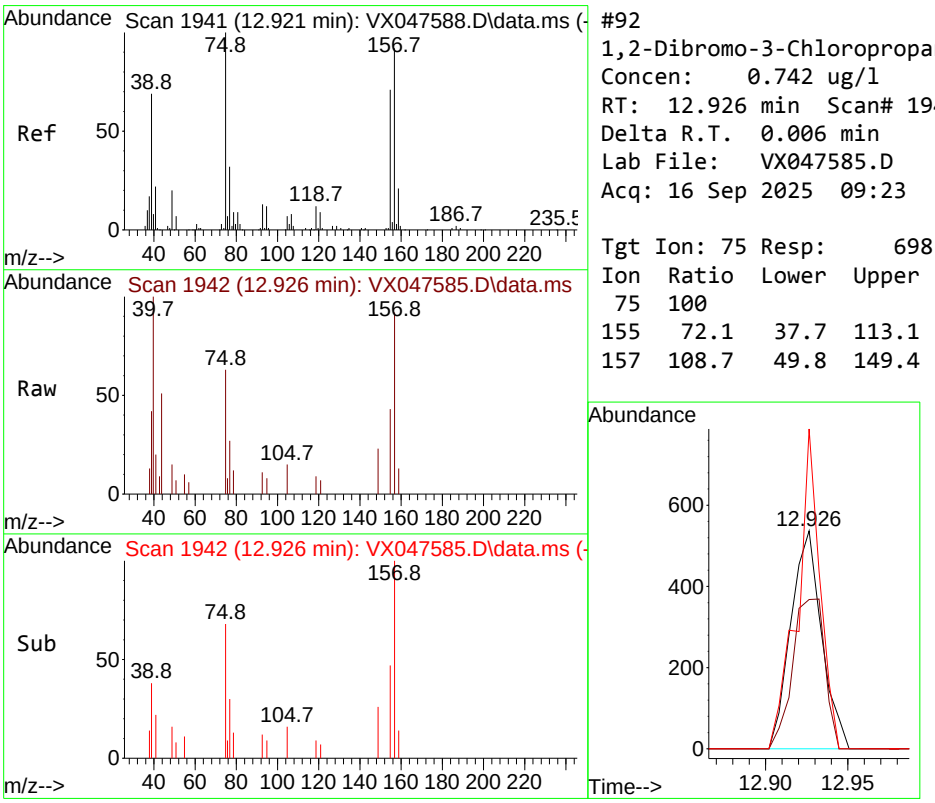
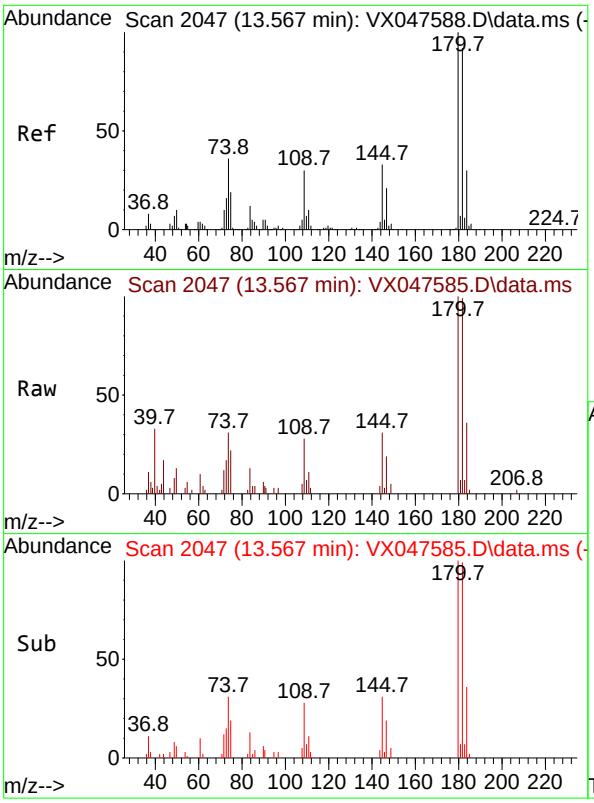


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.742 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 698

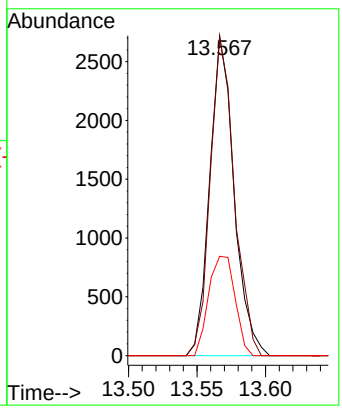
Ion	Ratio	Lower	Upper
75	100		
155	72.1	37.7	113.1
157	108.7	49.8	149.4



#93
1,2,4-Trichlorobenzene
Concen: 0.772 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 335

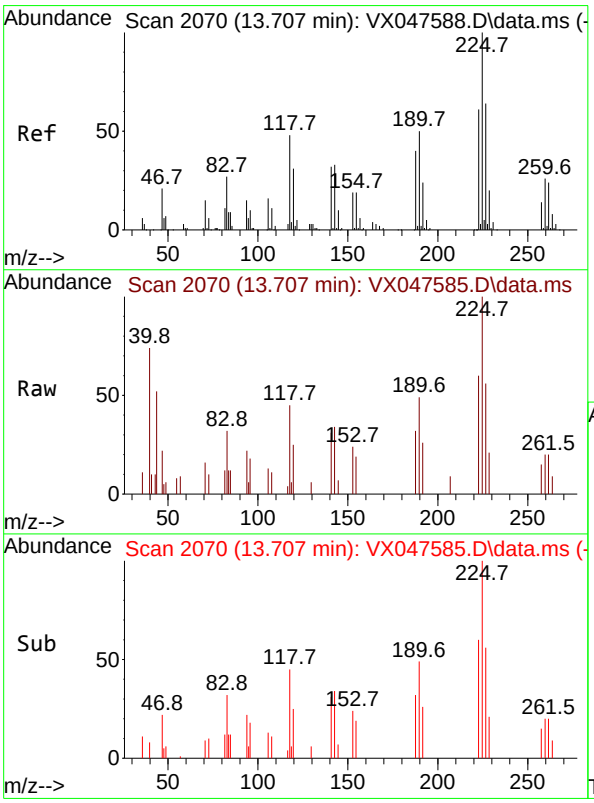
Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.6	139.8
145	33.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

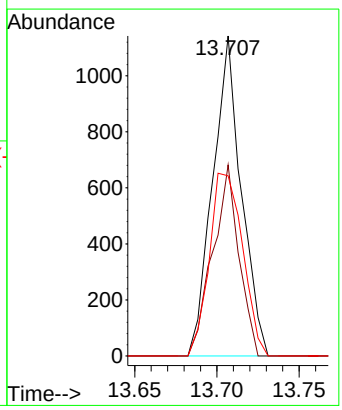
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

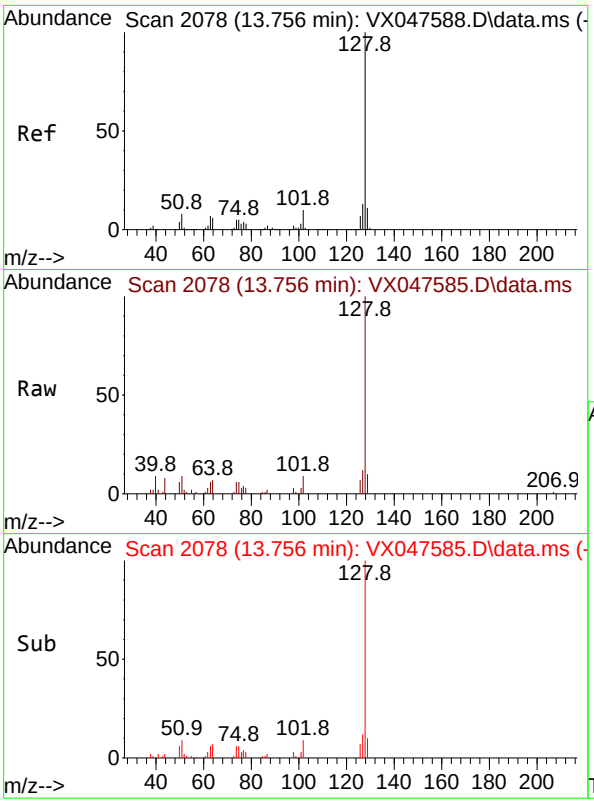


#94
Hexachlorobutadiene
Concen: 0.933 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:225 Resp: 1378

Ion	Ratio	Lower	Upper
225	100		
223	54.8	31.7	95.1
227	66.7	32.0	96.0

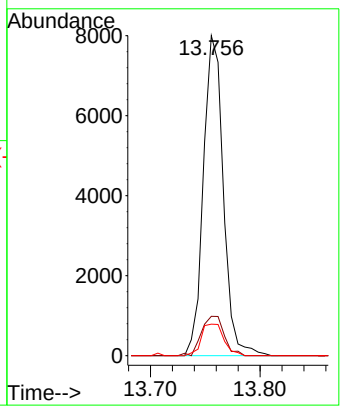




#95
Naphthalene
Concen: 0.763 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:128 Resp: 1011

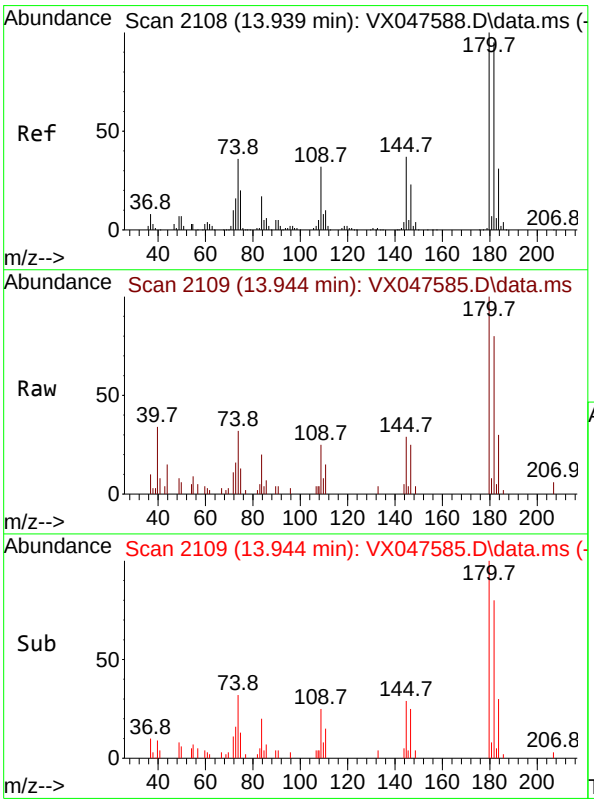
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.2	15.2
129	11.2	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

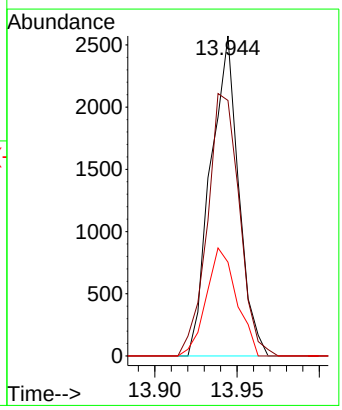
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.752 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:180 Resp: 3043

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.6	142.8
145	36.6	17.9	53.7



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 11.100%#			
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.620%#			
50) Toluene-d8	8.635	98	43926	5.332	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 10.660%#			
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 10.860%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l	93
3) Chloromethane	1.301	50	14854	5.502	ug/l	99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l	97
5) Bromomethane	1.618	94	9780	5.836	ug/l	87
6) Chloroethane	1.697	64	8926	5.053	ug/l	96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l	100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l	98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l	98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l	99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l	91
13) Acrolein	2.239	56	7080	21.847	ug/l	95
14) Allyl chloride	2.666	41	25135	5.168	ug/l	99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l	99
16) Acetone	2.374	43	41297	30.079	ug/l	97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l	100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l	98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l	97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l	98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l	97
25) 2-Butanone	4.544	43	46651	27.240	ug/l	92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l	98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l	95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l	92
30) Chloroform	5.080	83	27054	5.344	ug/l	99
31) Cyclohexane	5.458	56	23032	5.520	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l	96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l	98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l #	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l	96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l	97
40) Benzene	6.019	78	55996	5.299	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883	ug/l		95
42) 1,2-Dichloroethane	6.074	62	21117	5.252	ug/l		99
43) Isopropyl Acetate	6.324	43	31304	5.124	ug/l		99
44) Trichloroethene	7.111	130	13576	5.314	ug/l		97
45) 1,2-Dichloropropane	7.415	63	14305	5.287	ug/l		99
46) Dibromomethane	7.568	93	10133	5.146	ug/l		99
47) Bromodichloromethane	7.806	83	21270	5.235	ug/l		99
48) Methyl methacrylate	7.677	41	14959	4.915	ug/l		99
49) 1,4-Dioxane	7.653	88	3017	98.096	ug/l	#	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828	ug/l		100
52) Toluene	8.702	92	34314	5.271	ug/l		98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034	ug/l		97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227	ug/l		98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166	ug/l		91
56) Ethyl methacrylate	9.104	69	19980	5.068	ug/l		97
57) 1,3-Dichloropropane	9.293	76	22989	5.331	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899	ug/l		98
59) 2-Hexanone	9.415	43	66356	27.275	ug/l		99
60) Dibromochloromethane	9.506	129	14705	5.084	ug/l		95
61) 1,2-Dibromoethane	9.592	107	13461	5.264	ug/l		98
64) Tetrachloroethene	9.256	164	11228	5.428	ug/l		97
65) Chlorobenzene	10.061	112	37507	5.203	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149	ug/l		99
67) Ethyl Benzene	10.177	91	65908	5.299	ug/l		100
68) m/p-Xylenes	10.287	106	49132	10.613	ug/l		99
69) o-Xylene	10.628	106	23300	5.204	ug/l		98
70) Styrene	10.640	104	40872	5.210	ug/l		99
71) Bromoform	10.781	173	9298	5.006	ug/l	#	97
73) Isopropylbenzene	10.945	105	61029	5.139	ug/l		100
74) N-amyl acetate	10.823	43	26969	4.980	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138	ug/l		98
76) 1,2,3-Trichloropropane	11.220	75	15982m	4.927	ug/l		
77) Bromobenzene	11.183	156	15066	5.150	ug/l		99
78) n-propylbenzene	11.287	91	72900	5.192	ug/l		100
79) 2-Chlorotoluene	11.348	91	44663	5.194	ug/l		99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364	ug/l		91
82) 4-Chlorotoluene	11.439	91	52294	5.149	ug/l		100
83) tert-Butylbenzene	11.695	119	50350	5.041	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214	ug/l		100
85) sec-Butylbenzene	11.872	105	62507	5.268	ug/l		99
86) p-Isopropyltoluene	11.994	119	52674	5.244	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175	ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294	ug/l		93
89) n-Butylbenzene	12.317	91	47953	5.159	ug/l		99
90) Hexachloroethane	12.518	117	8830	5.007	ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690	ug/l		99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103	ug/l		98
94) Hexachlorobutadiene	13.707	225	5894	5.158	ug/l		99
95) Naphthalene	13.756	128	49257	4.808	ug/l		99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

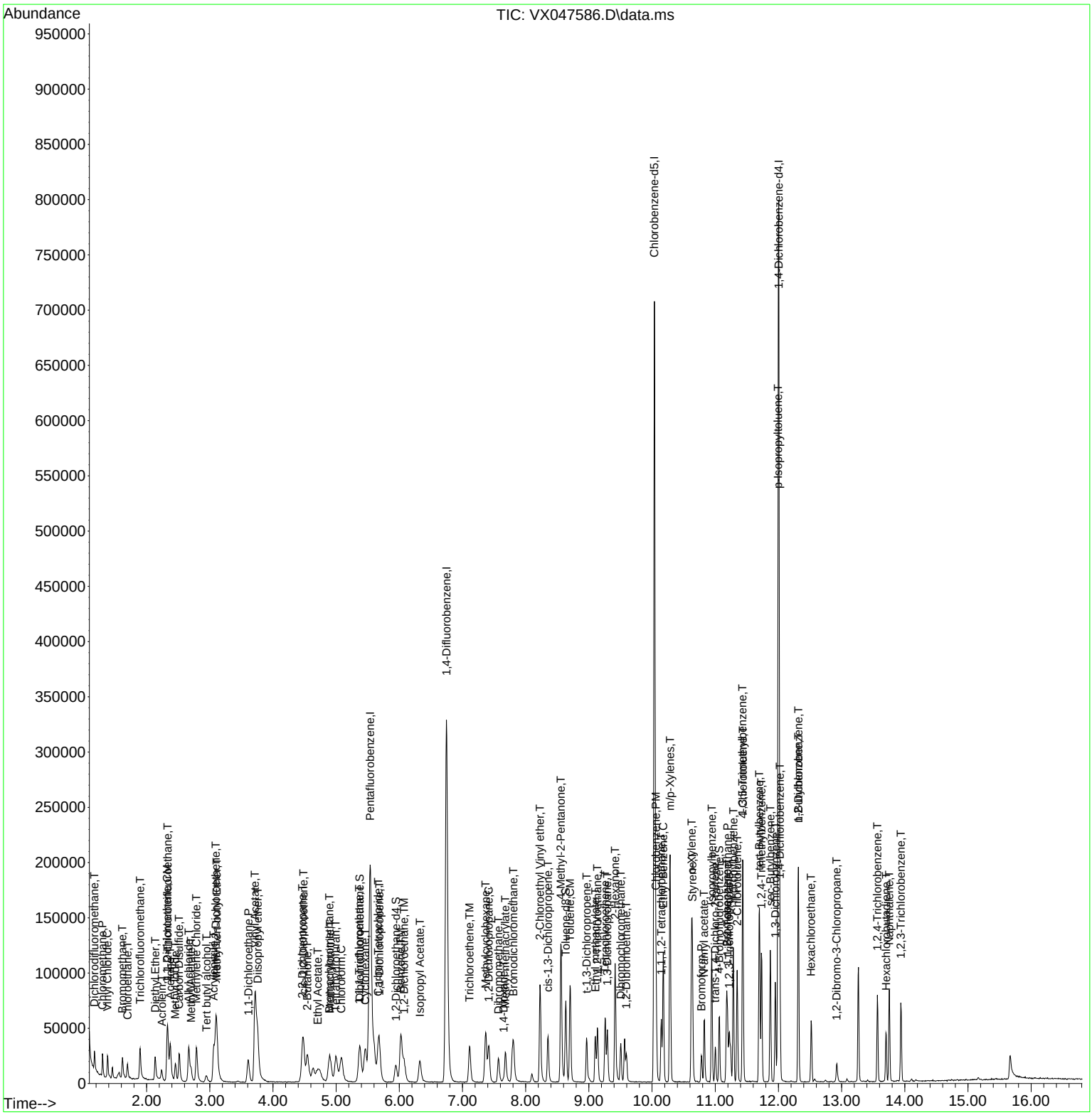
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

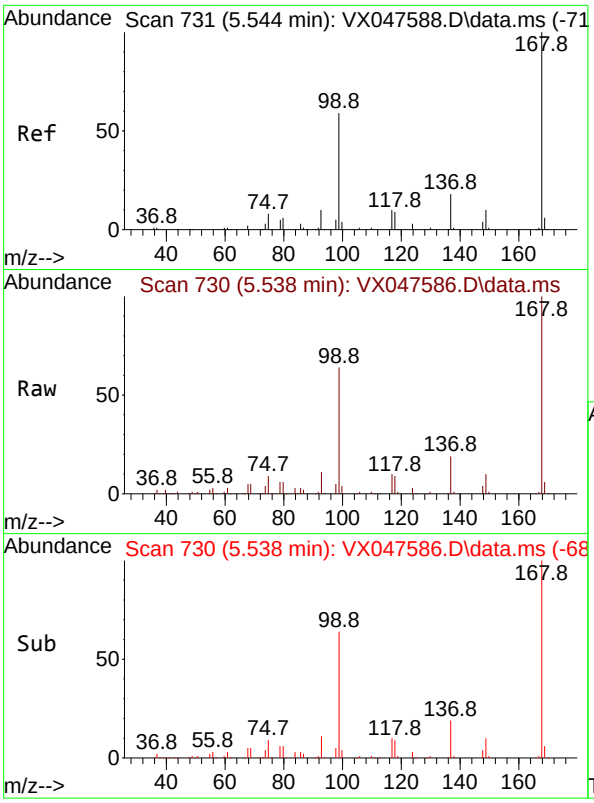
Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

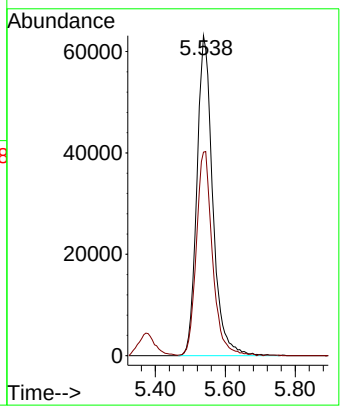




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:168 Resp: 19837

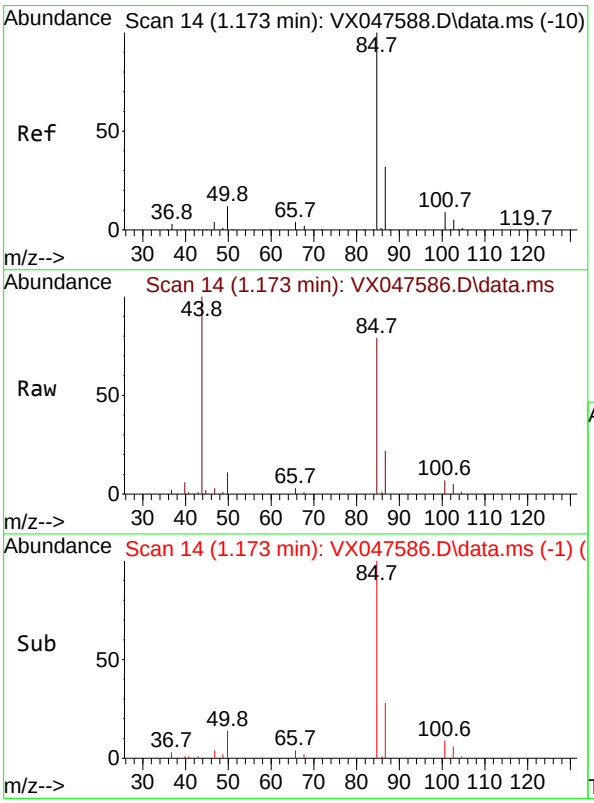
Ion	Ratio	Lower	Upper
168	100		
99	63.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

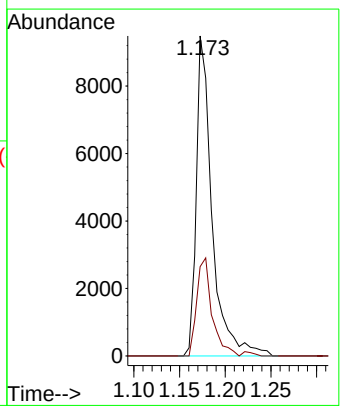
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

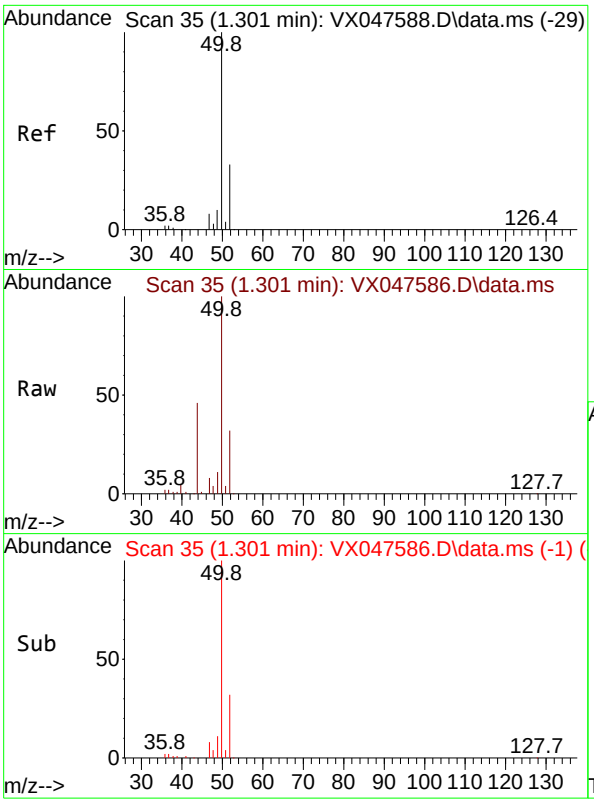


#2
Dichlorodifluoromethane
Concen: 5.551 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 85 Resp: 11403

Ion	Ratio	Lower	Upper
85	100		
87	27.9	15.8	47.3

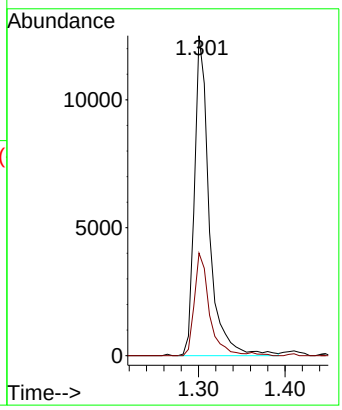




#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 50 Resp: 1485

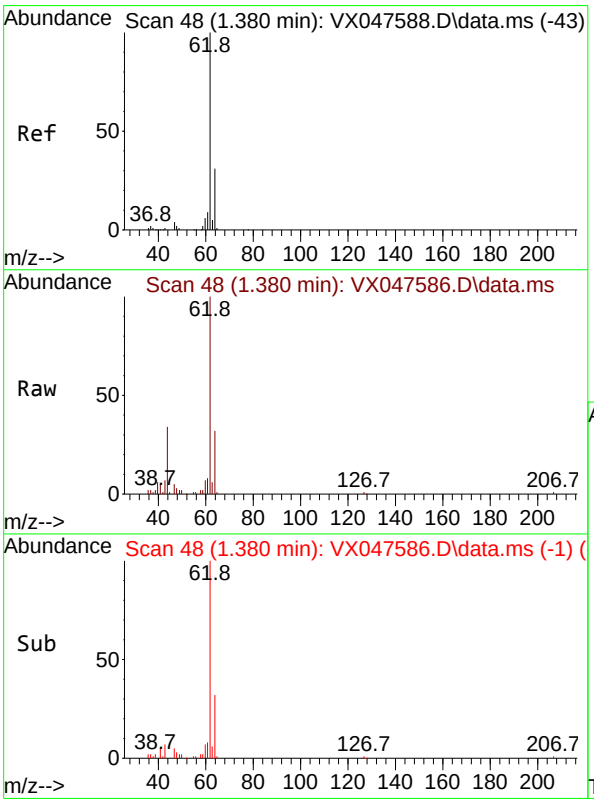
Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

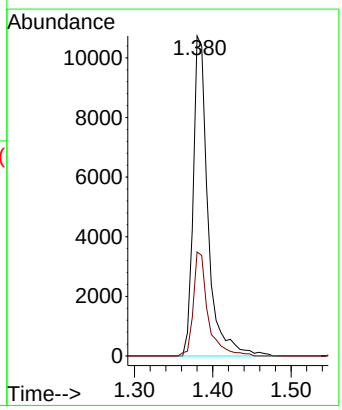
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

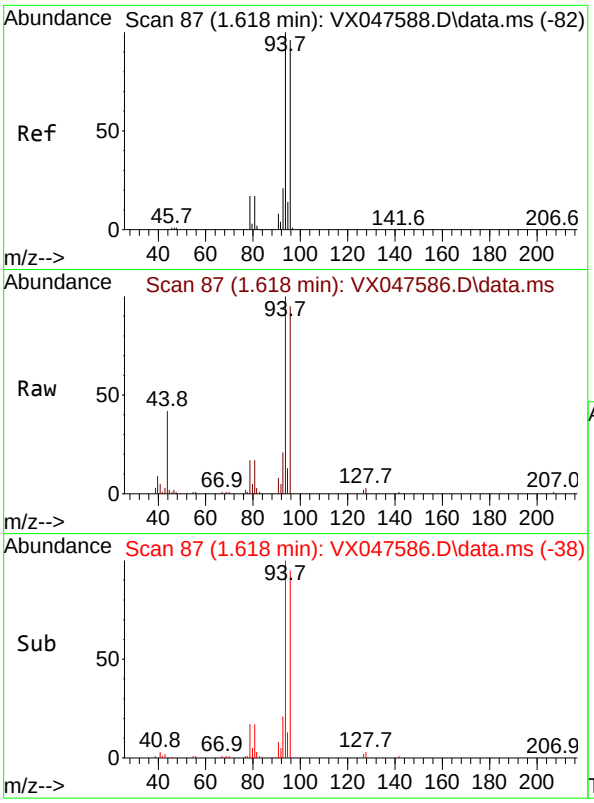


#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 14147

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3

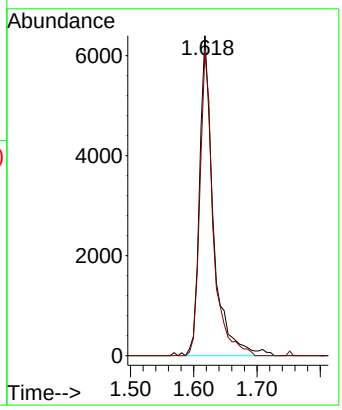




#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 94 Resp: 978

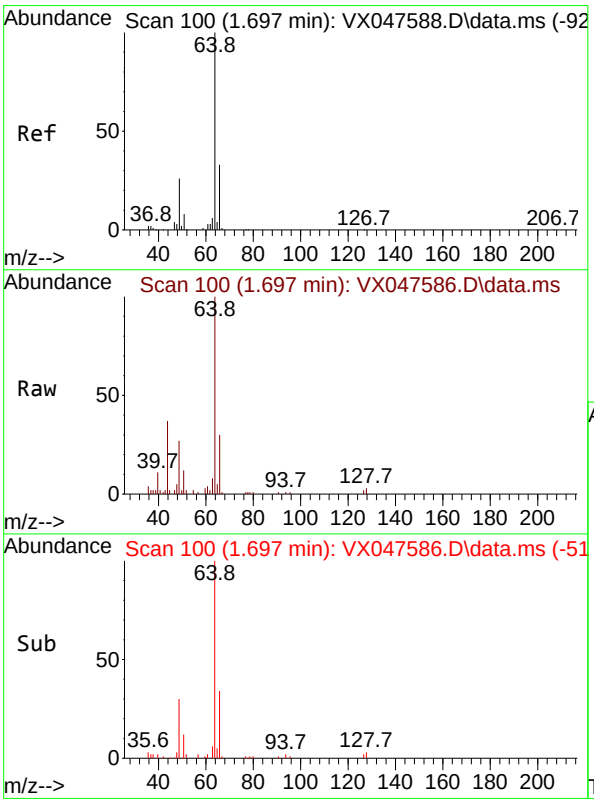
Ion	Ratio	Lower	Upper
94	100		
96	83.6	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

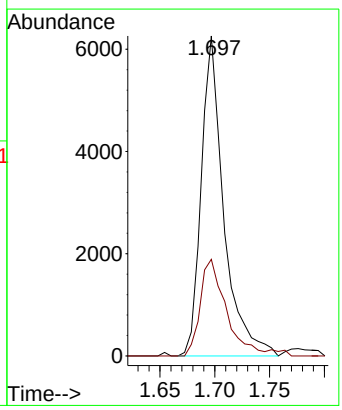
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

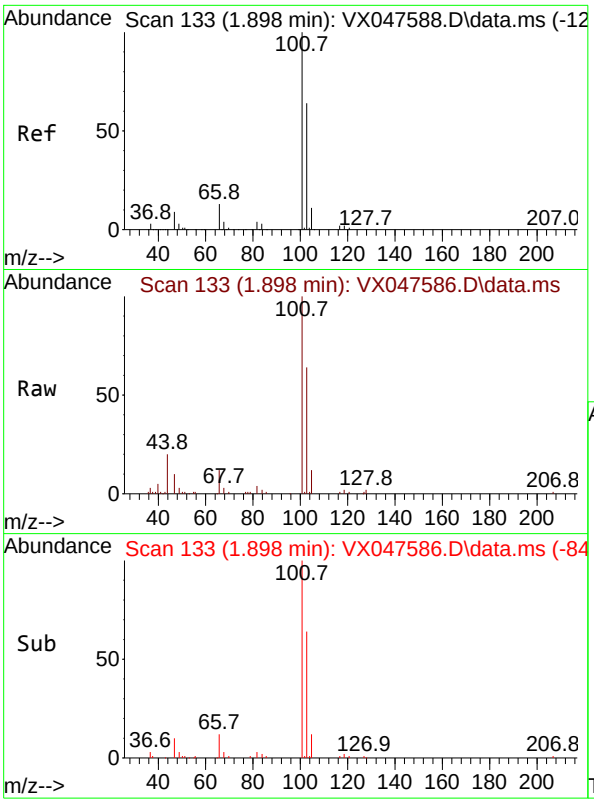


#6
Chloroethane
Concen: 5.053 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 64 Resp: 8926

Ion	Ratio	Lower	Upper
64	100		
66	30.2	26.1	39.1

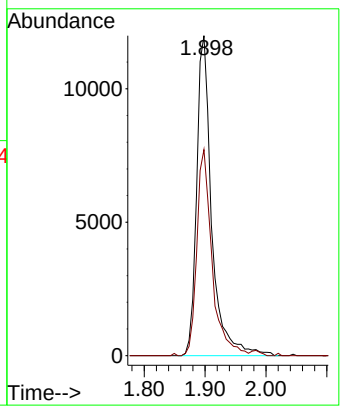




#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:101 Resp: 2049

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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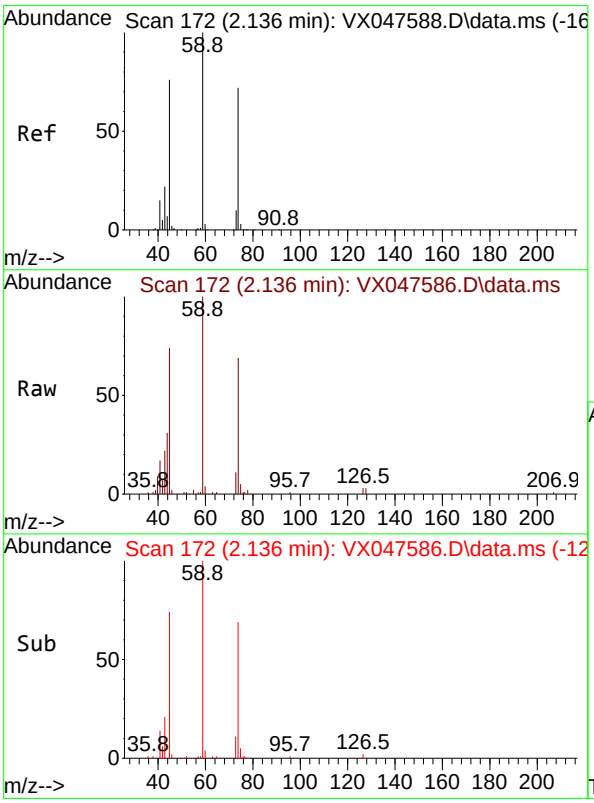
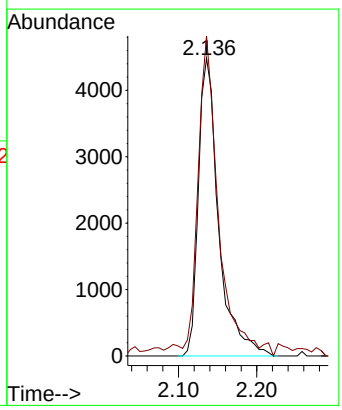
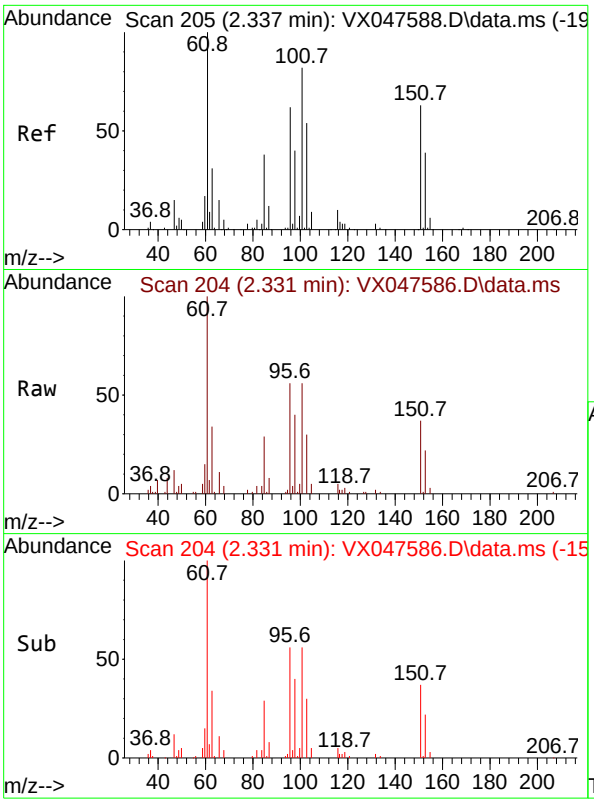


#8
Diethyl Ether
Concen: 5.008 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 74 Resp: 8039

Ion	Ratio	Lower	Upper
74	100		
45	111.7	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.112 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:101 Resp: 1172

Ion	Ratio	Lower	Upper
101	100		
85	47.5	35.5	53.3
151	75.0	59.4	89.0

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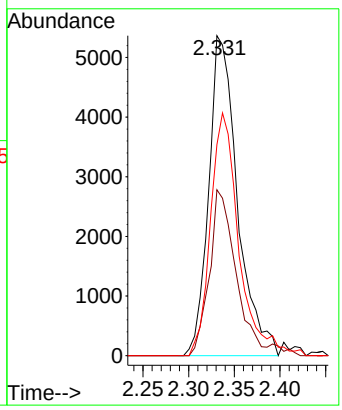
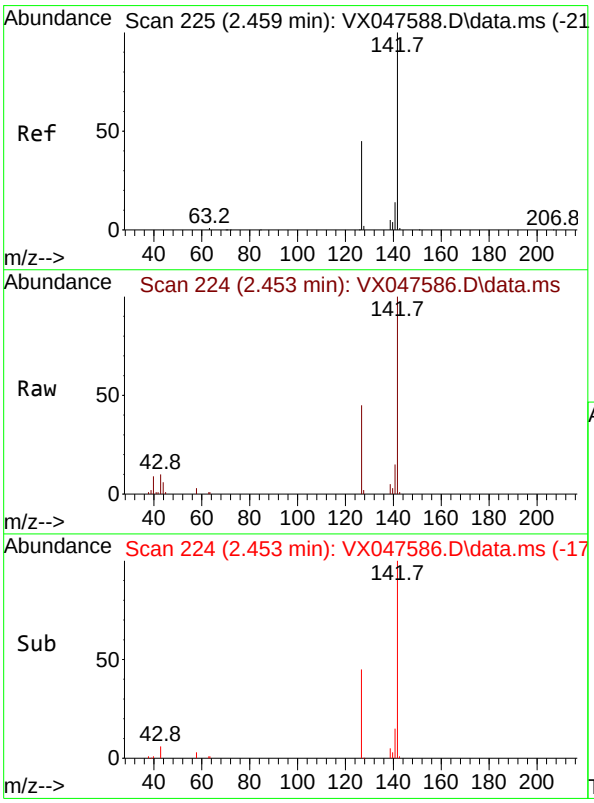
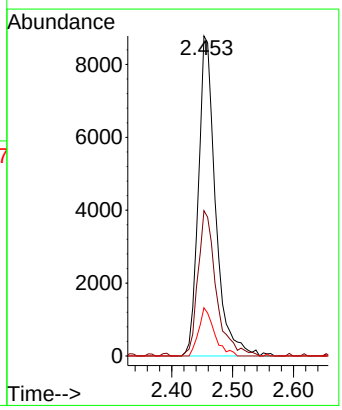


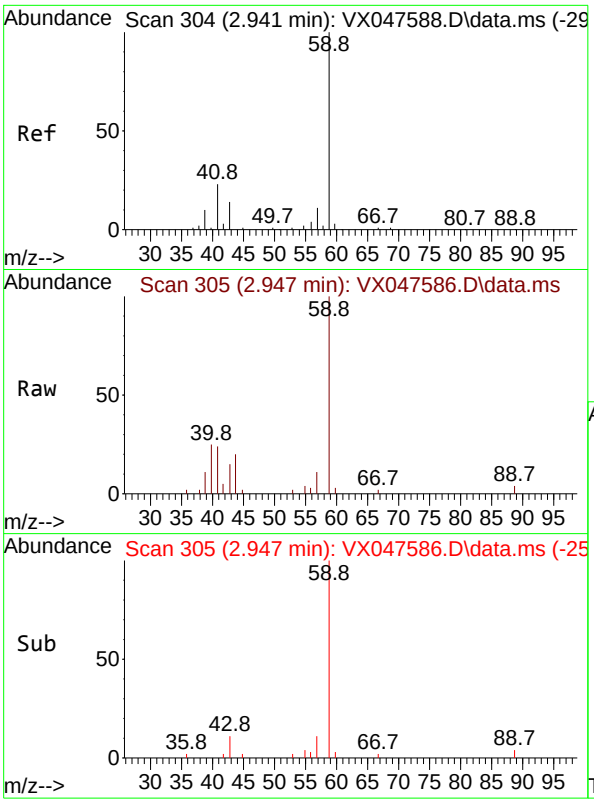


#10
Methyl Iodide
Concen: 4.795 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:142 Resp: 17159

Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.2	55.8
141	13.8	11.4	17.0

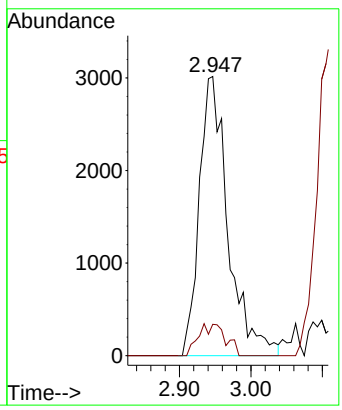




#11
Tert butyl alcohol
Concen: 23.883 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 59 Resp: 839

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.3	12.5



Instrument :
MSVOA_X
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VSTDICC005

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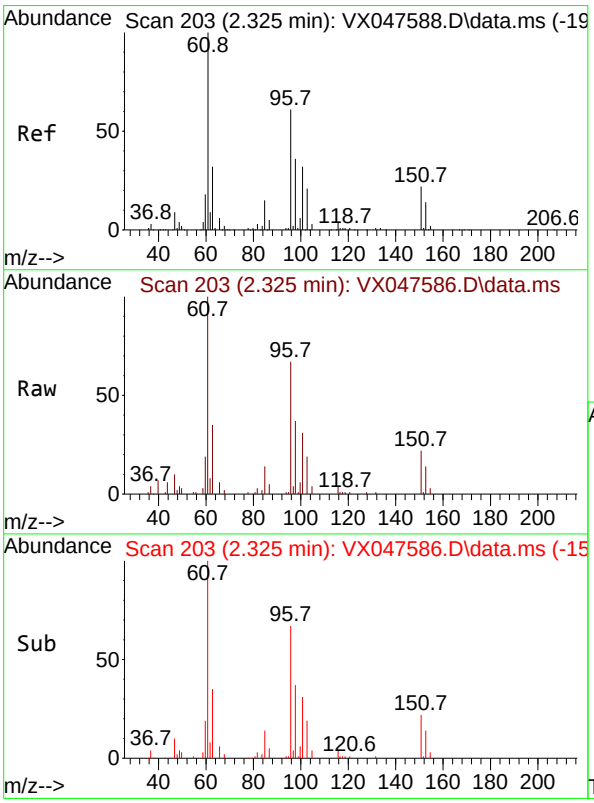
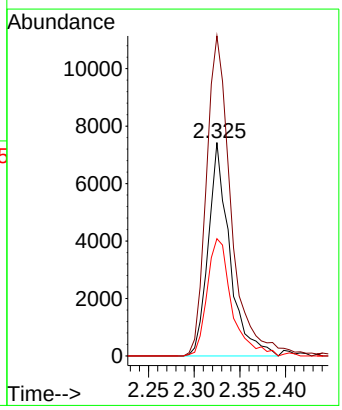
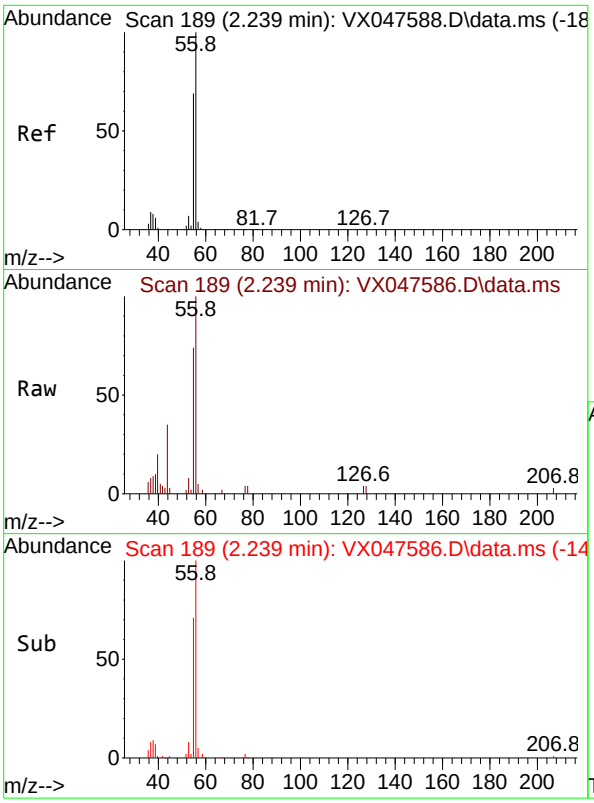


#12
1,1-Dichloroethene
Concen: 5.147 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 12131

Ion	Ratio	Lower	Upper
96	100		
61	149.9	131.0	196.6
98	54.9	47.7	71.5

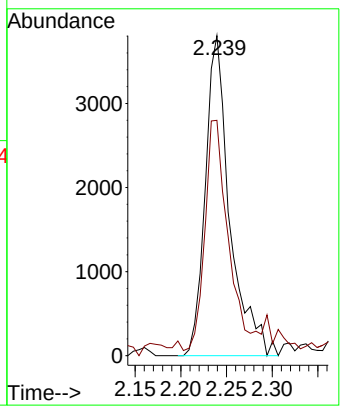




#13
Acrolein
Concen: 21.847 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 56 Resp: 708

Ion	Ratio	Lower	Upper
56	100		
55	67.1	57.2	85.8



Instrument :
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ClientSampleId :
VSTDICC005

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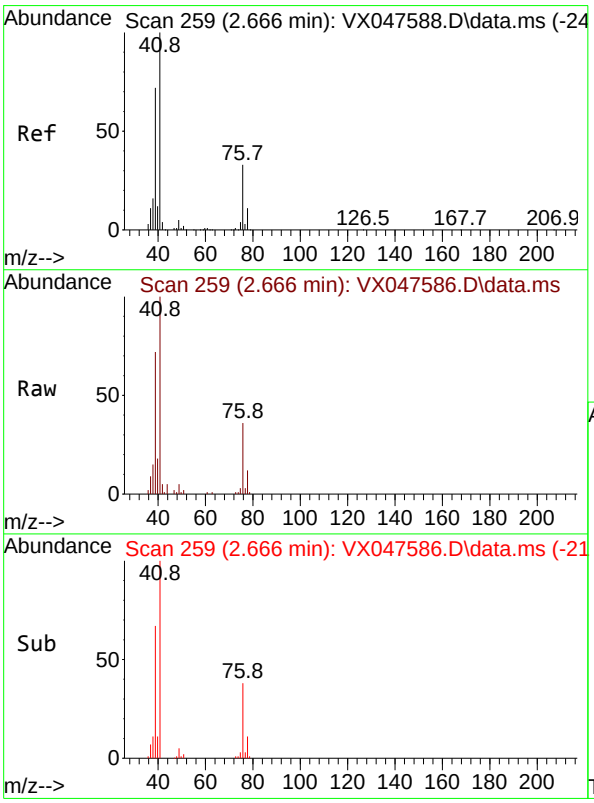
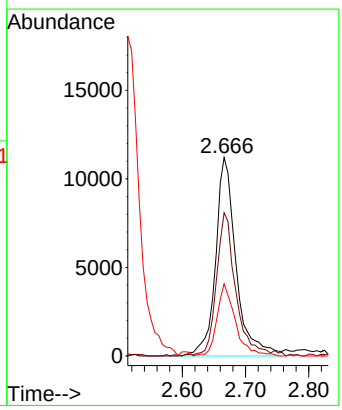
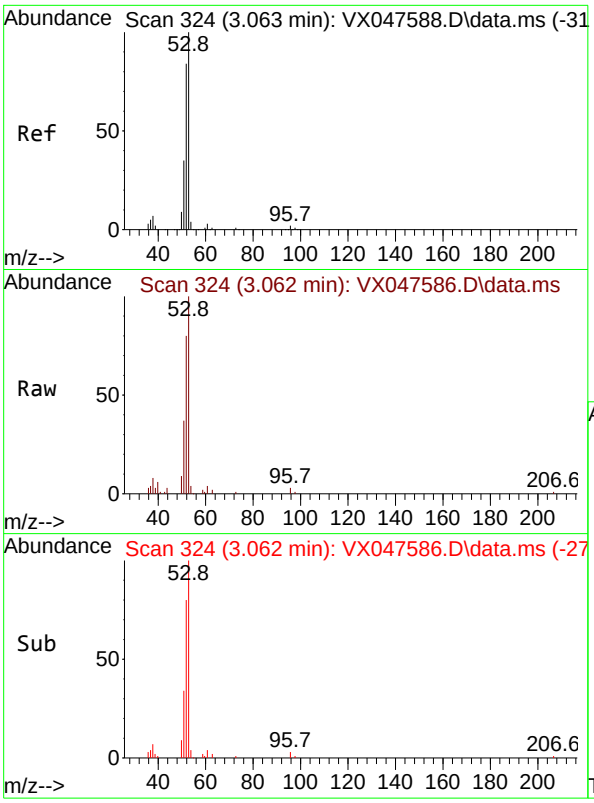


#14
Allyl chloride
Concen: 5.168 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 25135

Ion	Ratio	Lower	Upper
41	100		
39	69.1	54.7	82.1
76	32.4	25.7	38.5





#15
Acrylonitrile
Concen: 25.016 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 53 Resp: 3258

Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	36.5	29.5	44.3

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MSVOA_X
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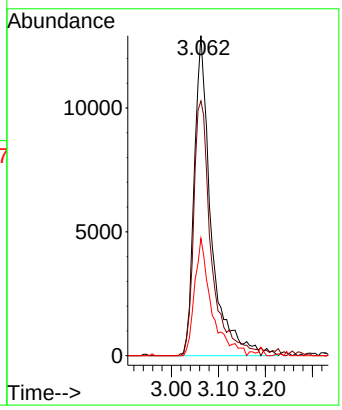
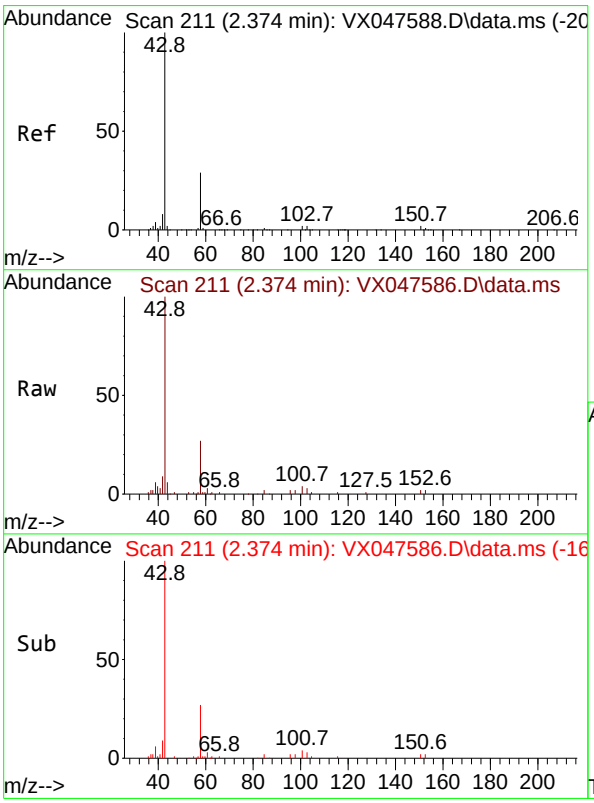
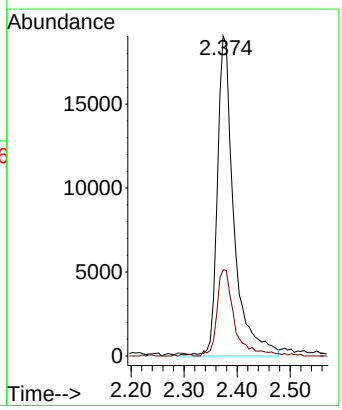


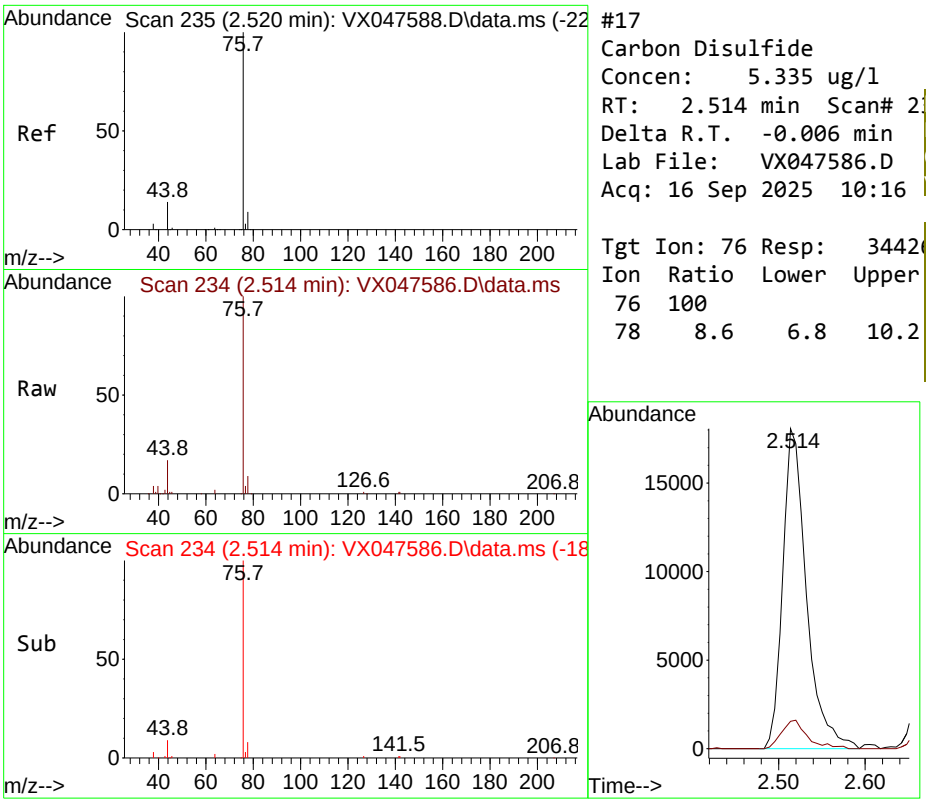


#16
Acetone
Concen: 30.079 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 41297

Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.4	35.0





#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 76 Resp: 3442

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2

Instrument :
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ClientSampleId :
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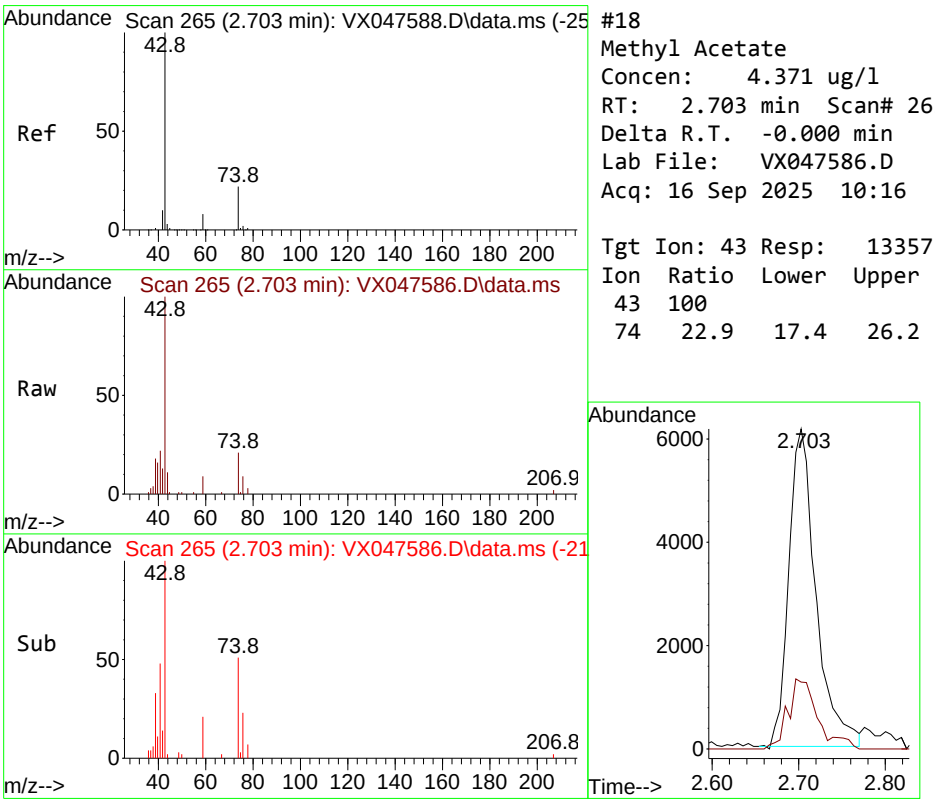
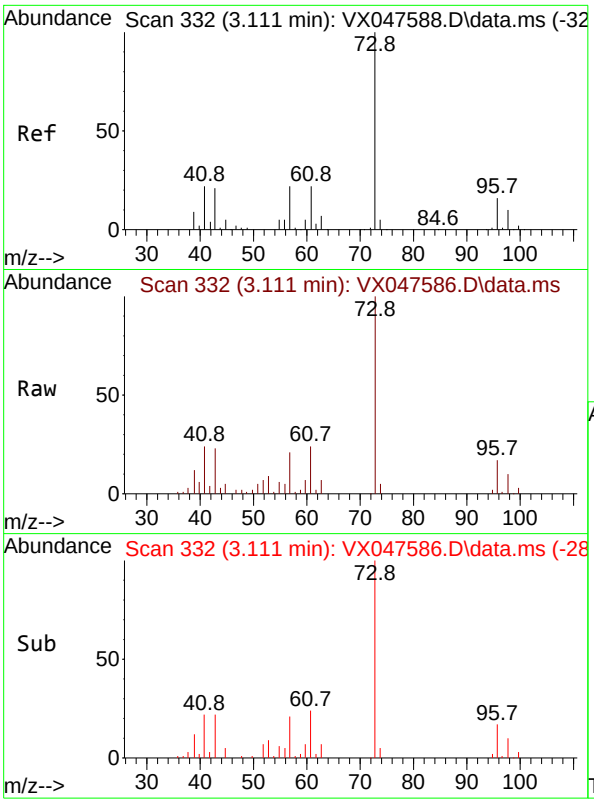


#18
Methyl Acetate
Concen: 4.371 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 13357

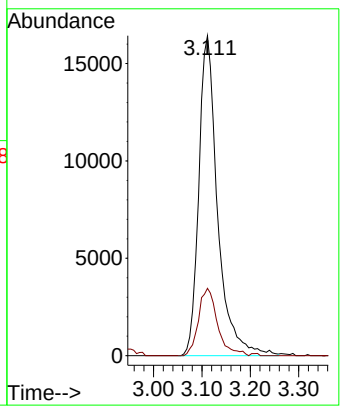
Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.4	26.2



#19
Methyl tert-butyl Ether
Concen: 5.160 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 73 Resp: 4439

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2



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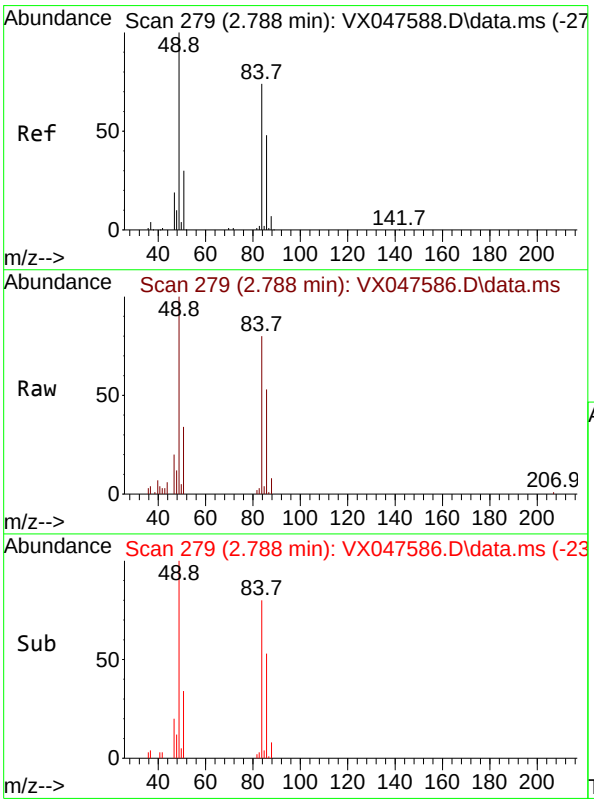
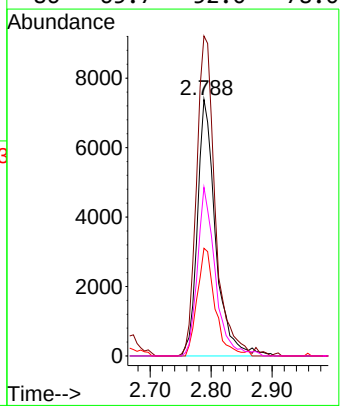
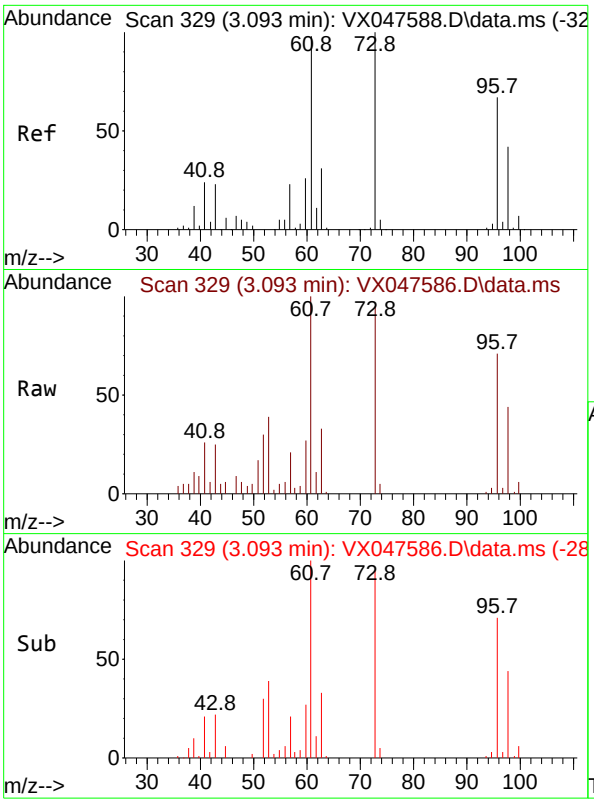


#20
Methylene Chloride
Concen: 5.267 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 84 Resp: 15307

Ion	Ratio	Lower	Upper
84	100		
49	124.7	108.6	162.8
51	42.0	32.6	48.8
86	65.7	52.0	78.0

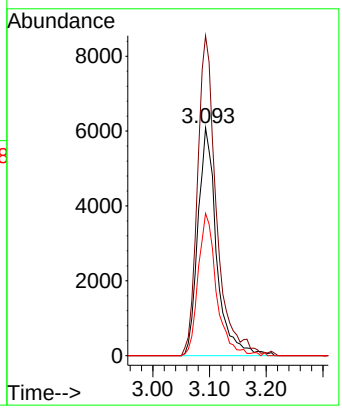




#21
trans-1,2-Dichloroethene
Concen: 5.492 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 1393

Ion	Ratio	Lower	Upper
96	100		
61	140.4	116.2	174.2
98	62.4	49.3	73.9



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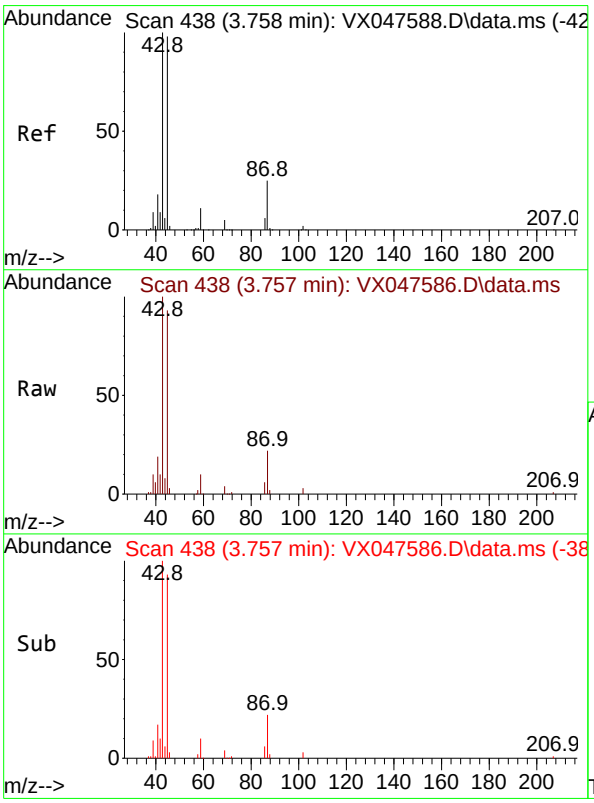
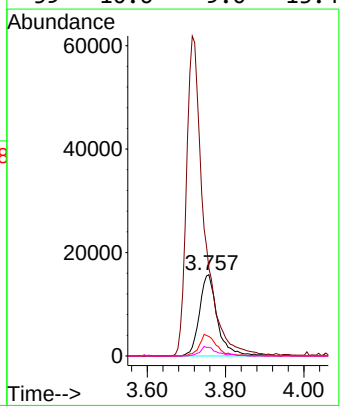
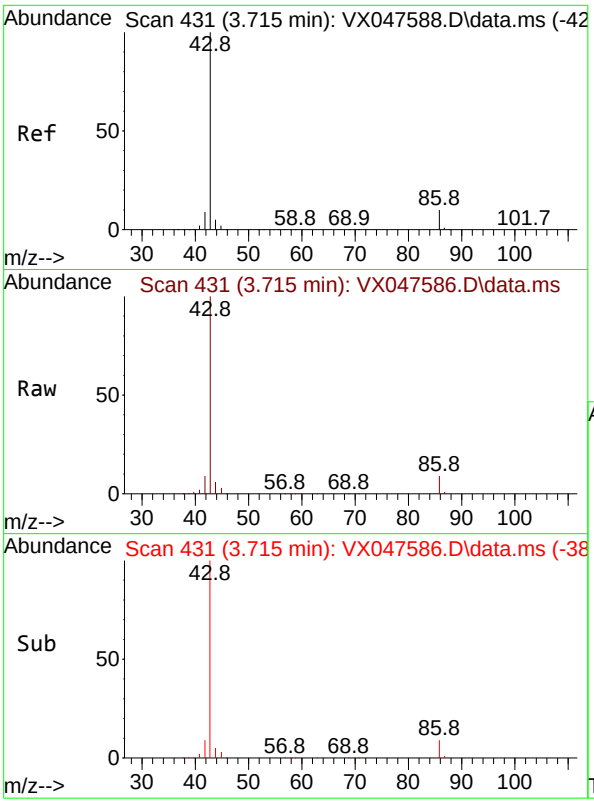


#22
Diisopropyl ether
Concen: 5.327 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 45 Resp: 50213

Ion	Ratio	Lower	Upper
45	100		
43	102.8	81.0	121.4
87	23.3	20.3	30.5
59	10.6	9.0	13.4





#23
Vinyl Acetate
Concen: 25.474 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 19217

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.8	11.8

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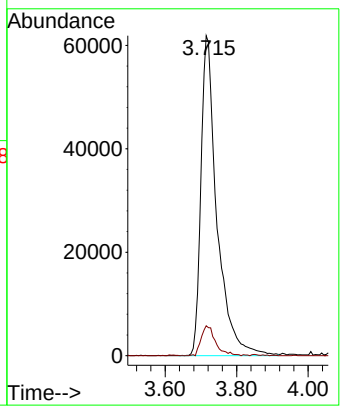
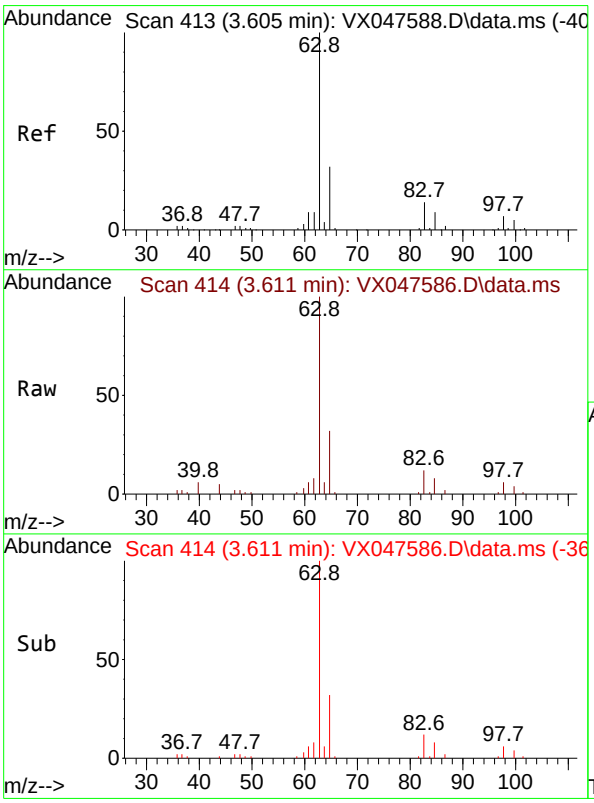
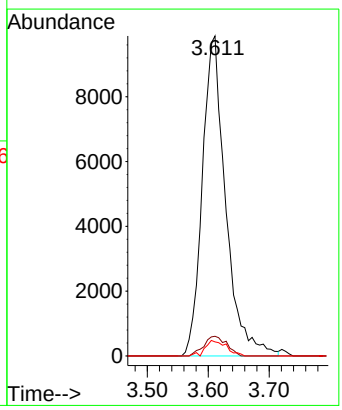


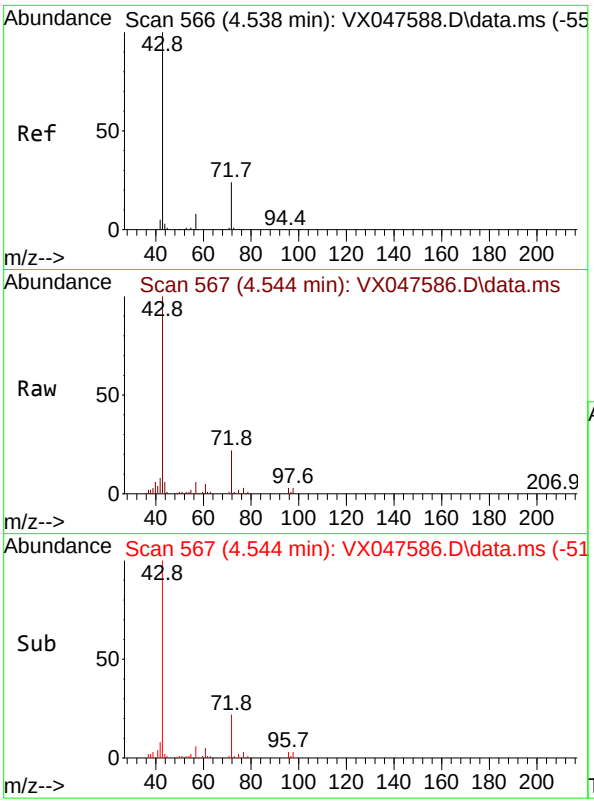


#24
1,1-Dichloroethane
Concen: 5.248 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 26292

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.2
100	4.4	2.3	6.9





#25
2-Butanone
Concen: 27.240 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 4665

Ion	Ratio	Lower	Upper
43	100		
72	21.3	20.1	30.1

Instrument :
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ClientSampleId :
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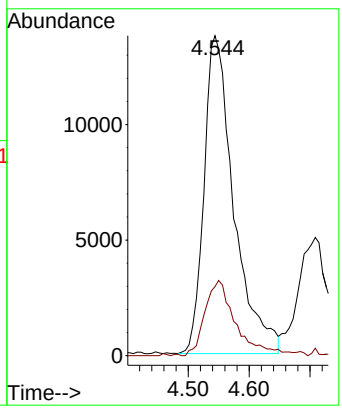
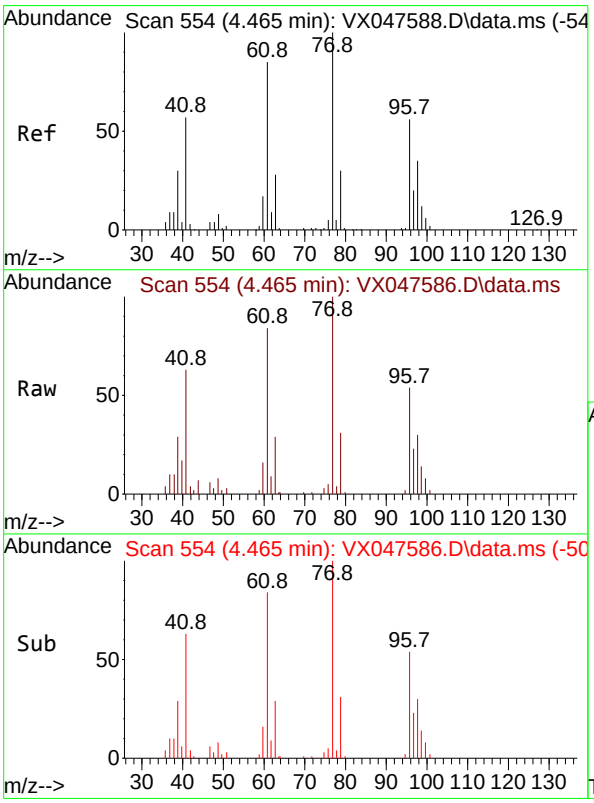
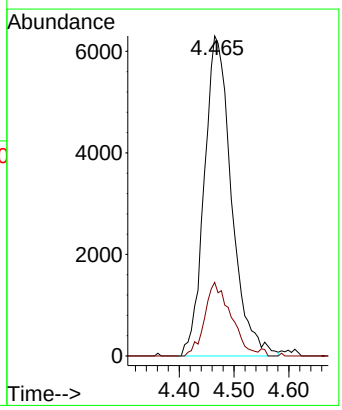


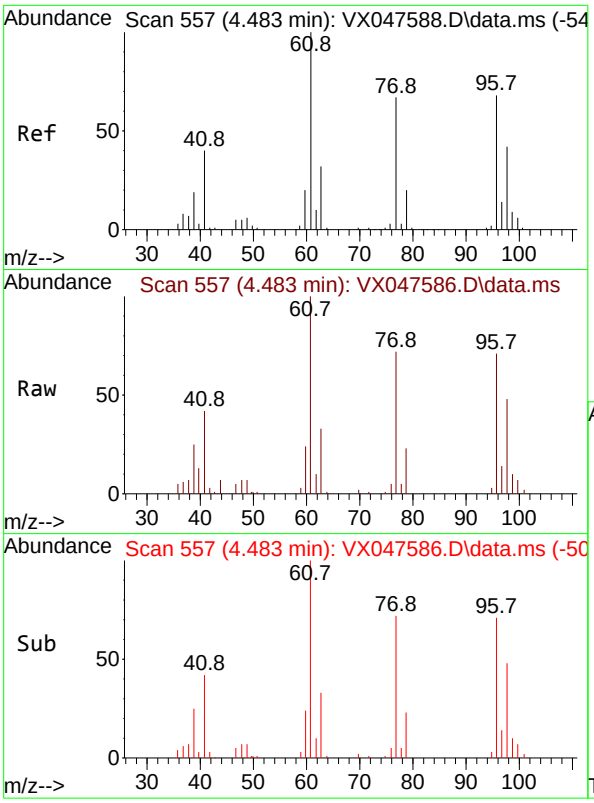


#26
2,2-Dichloropropane
Concen: 5.220 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 77 Resp: 21738

Ion	Ratio	Lower	Upper
77	100		
97	22.2	10.9	32.7

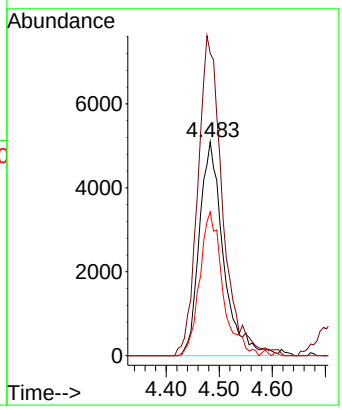




#27
cis-1,2-Dichloroethene
Concen: 5.147 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 96 Resp: 1599

Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	303.2
98	64.8	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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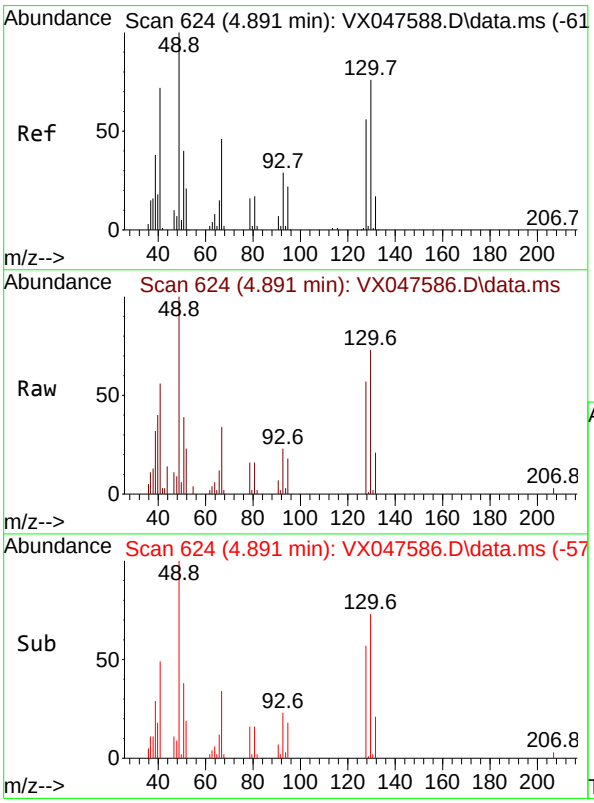
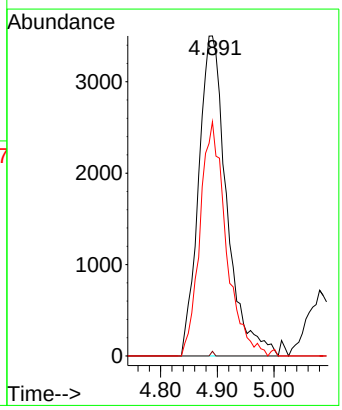
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

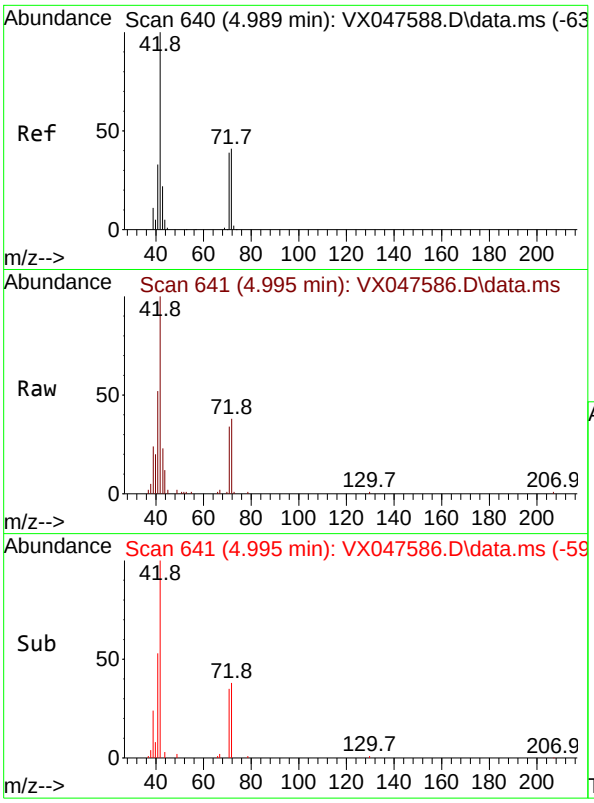


#28
Bromochloromethane
Concen: 5.508 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 49 Resp: 12047

Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	3.2
130	68.0	57.8	86.8





#29
Tetrahydrofuran
Concen: 25.944 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 42 Resp: 2672

Ion	Ratio	Lower	Upper
42	100		
72	38.7	34.2	51.2
71	34.1	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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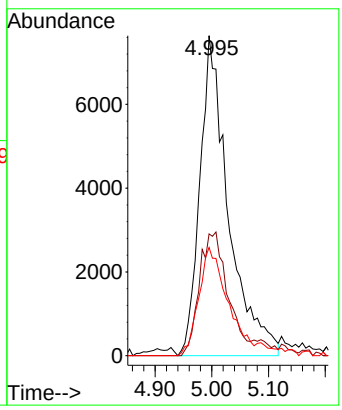
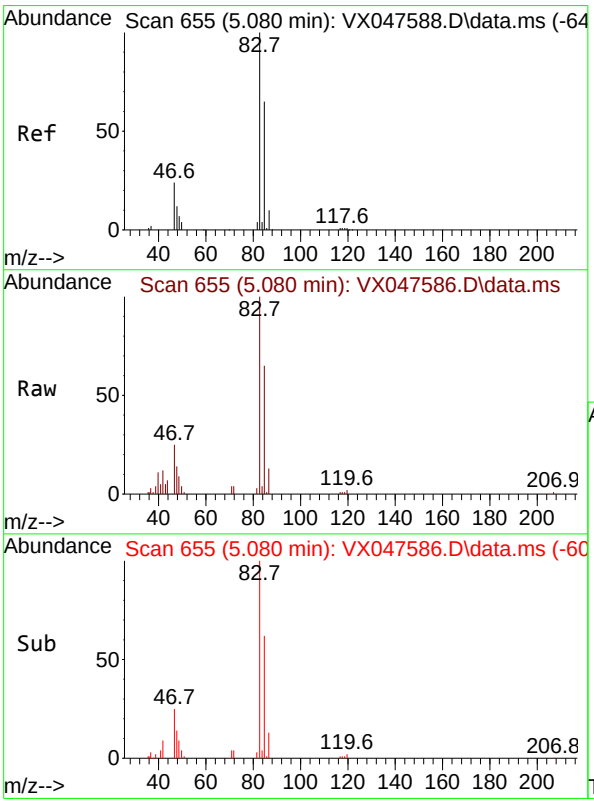
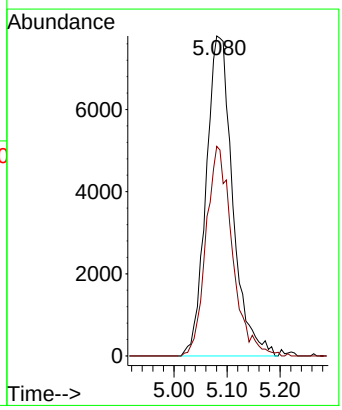


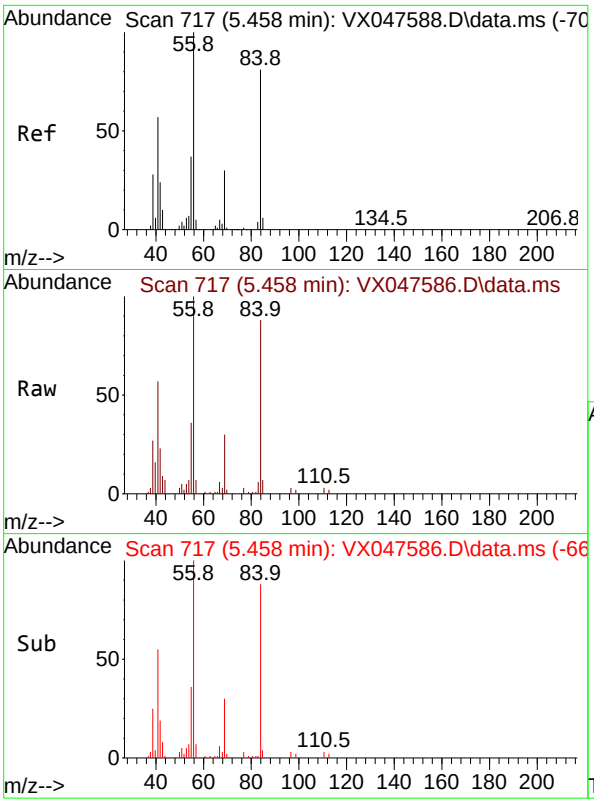


#30
Chloroform
Concen: 5.344 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 27054

Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6

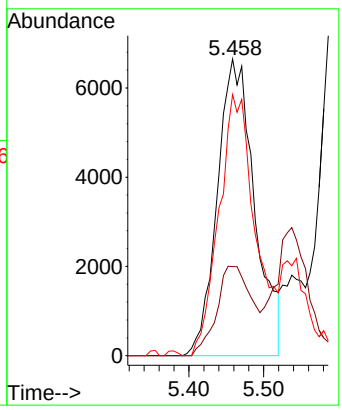




#31
Cyclohexane
Concen: 5.520 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 56 Resp: 2303

Ion	Ratio	Lower	Upper
56	100		
69	32.2	23.8	35.8
84	87.1	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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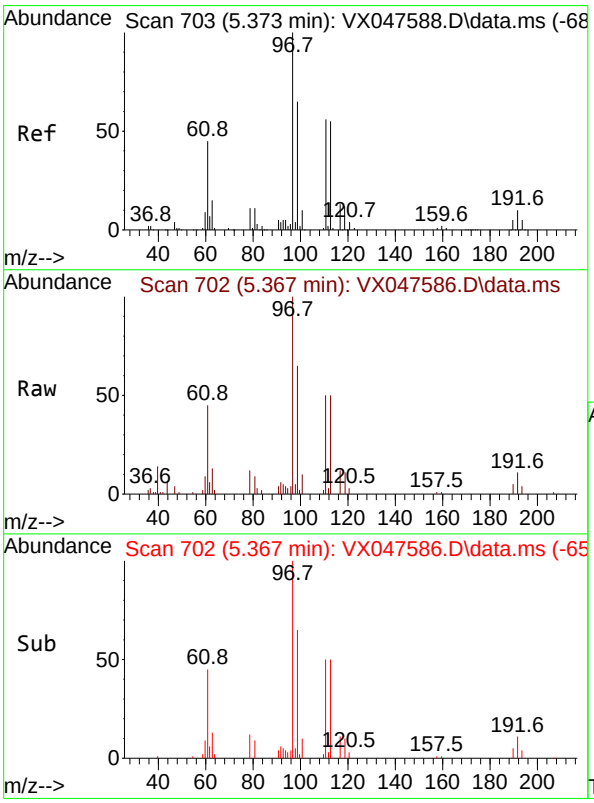
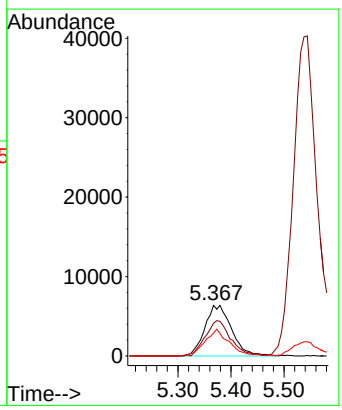
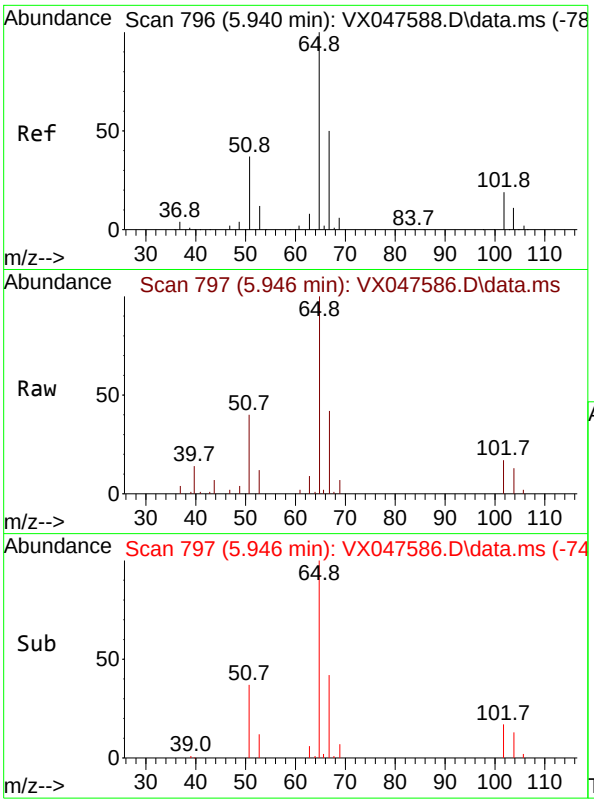


#32
1,1,1-Trichloroethane
Concen: 5.188 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 22279

Ion	Ratio	Lower	Upper
97	100		
99	66.4	50.6	76.0
61	47.4	35.8	53.8

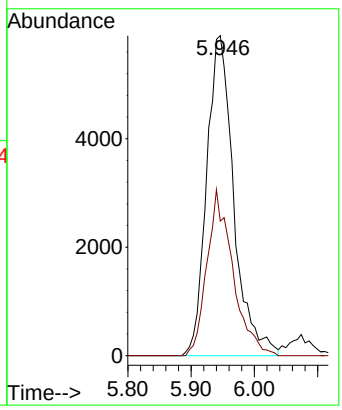




#33
1,2-Dichloroethane-d4
Concen: 5.554 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 65 Resp: 1753

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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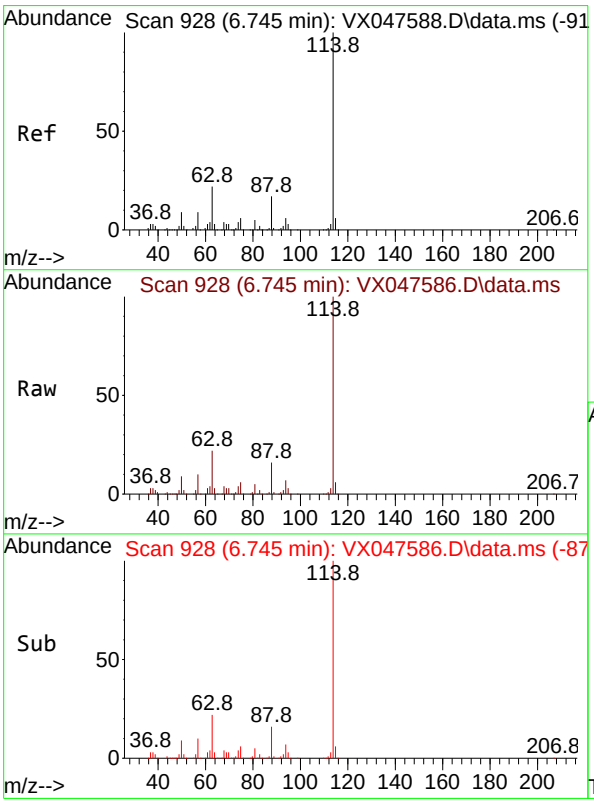
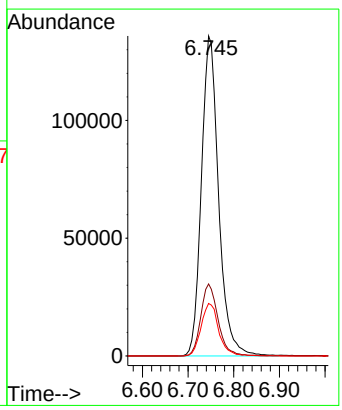
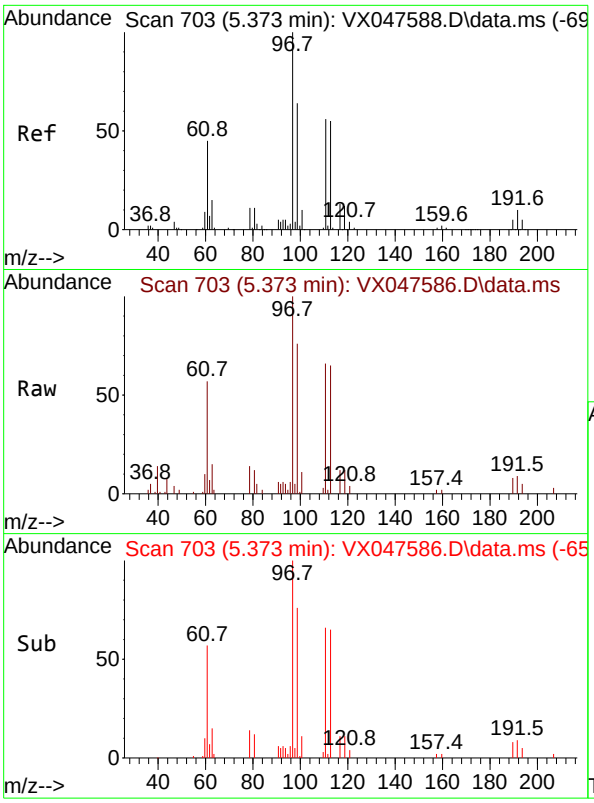


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:114 Resp: 355026

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	16.4	0.0	34.2

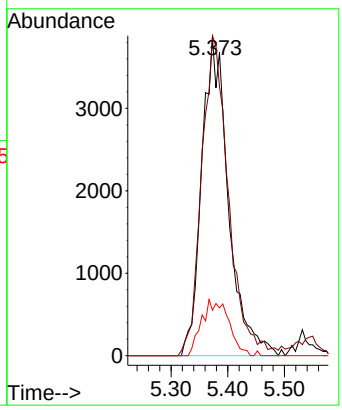




#35
Dibromofluoromethane
Concen: 5.312 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:113 Resp: 1264

Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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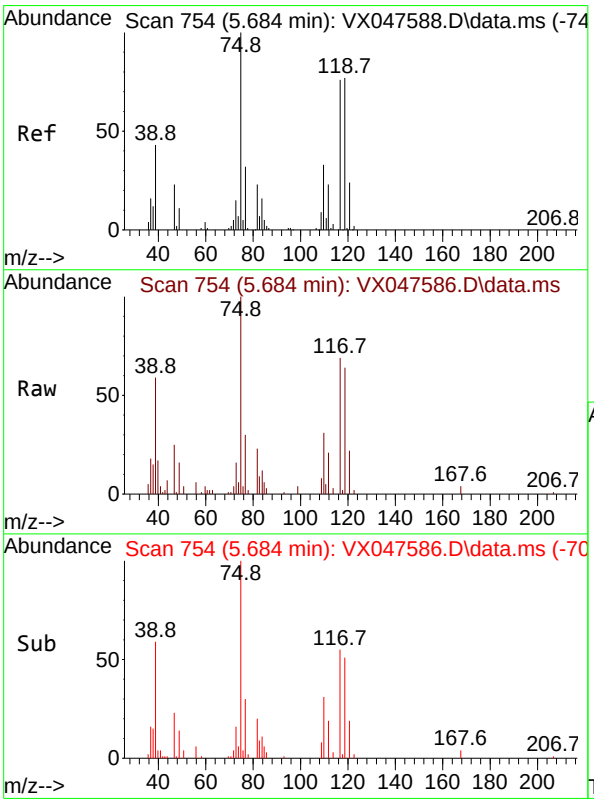
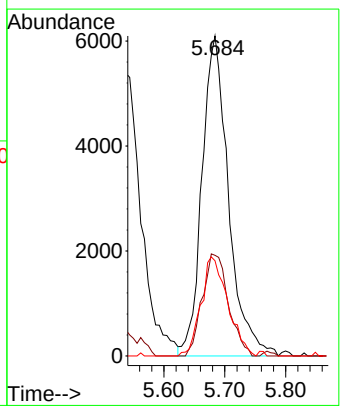
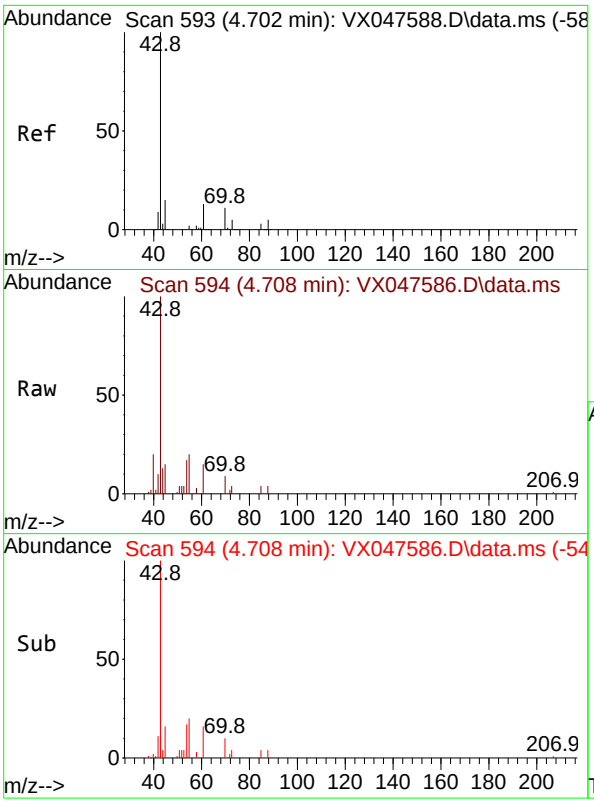


#36
1,1-Dichloropropene
Concen: 5.304 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 18455

Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.7	50.1
77	31.0	24.3	36.5





#37
Ethyl Acetate
Concen: 5.345 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 1991

Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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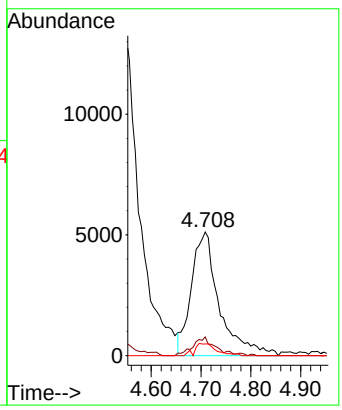
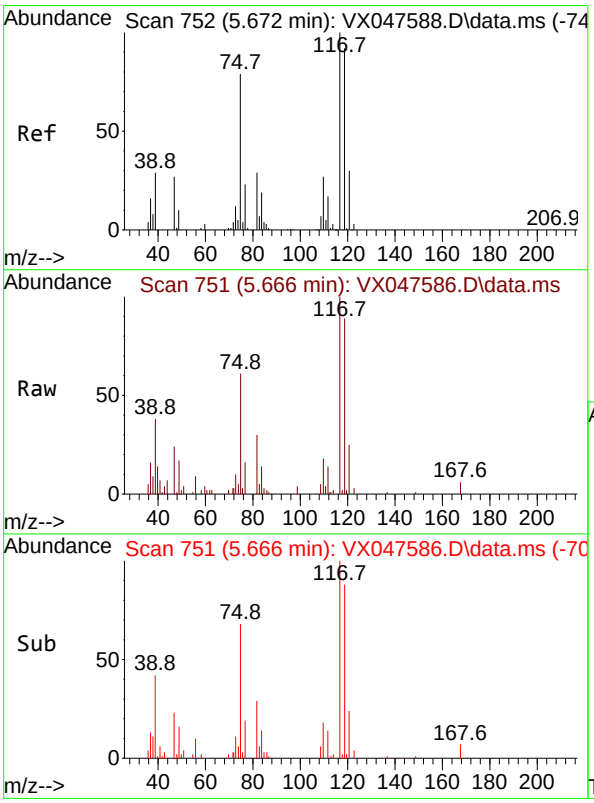
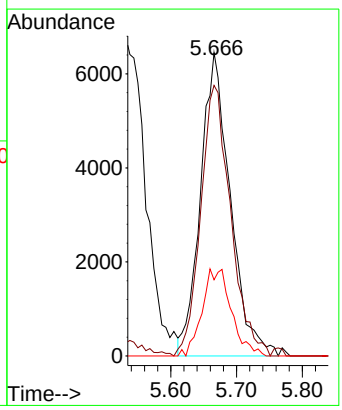


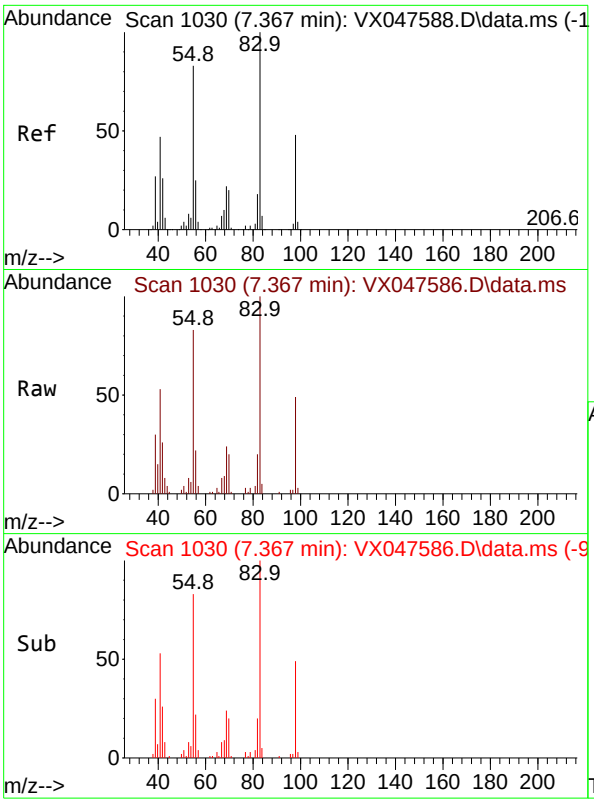


#38
Carbon Tetrachloride
Concen: 5.390 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 20376

Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.4	110.2
121	25.1	23.8	35.6

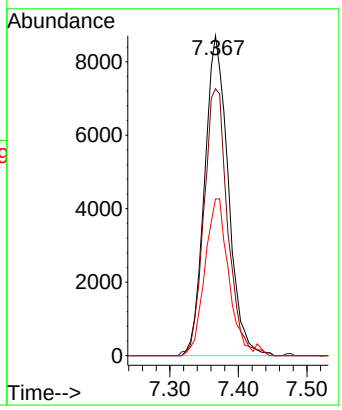




#39
Methylcyclohexane
Concen: 5.292 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 2090

Ion	Ratio	Lower	Upper
83	100		
55	79.1	66.4	99.6
98	46.4	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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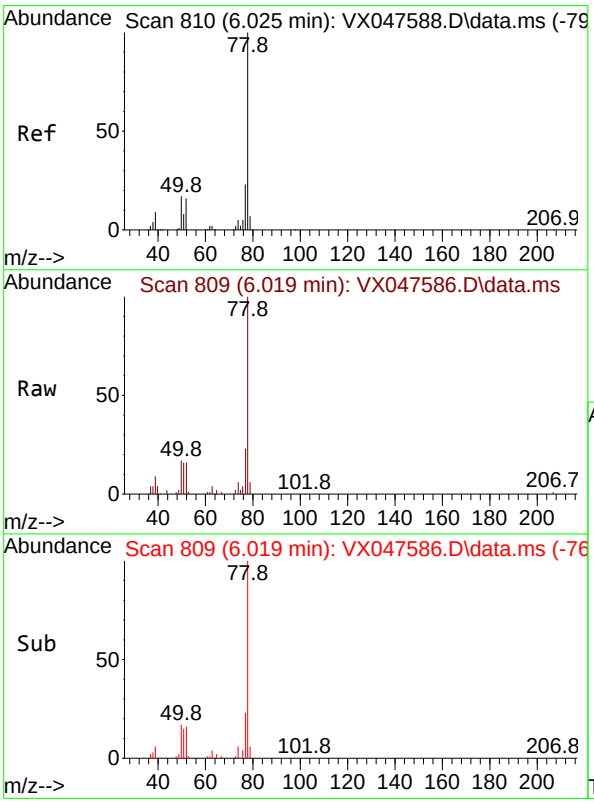
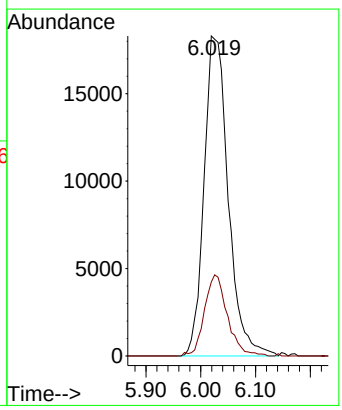
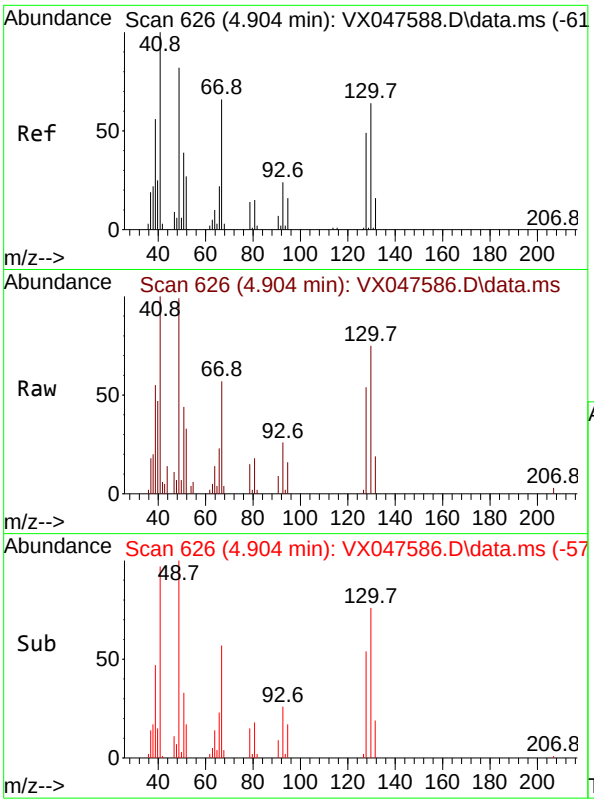


#40
Benzene
Concen: 5.299 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 78 Resp: 55996

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.8	28.2

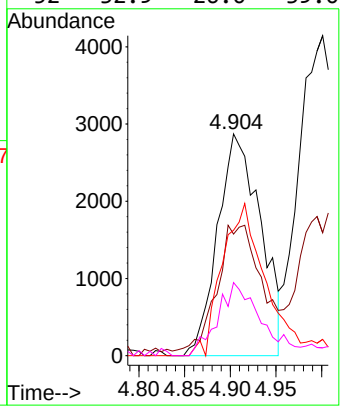




#41
Methacrylonitrile
Concen: 4.883 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 939

Ion	Ratio	Lower	Upper
41	100		
39	58.3	43.3	64.9
67	68.7	58.6	87.8
52	32.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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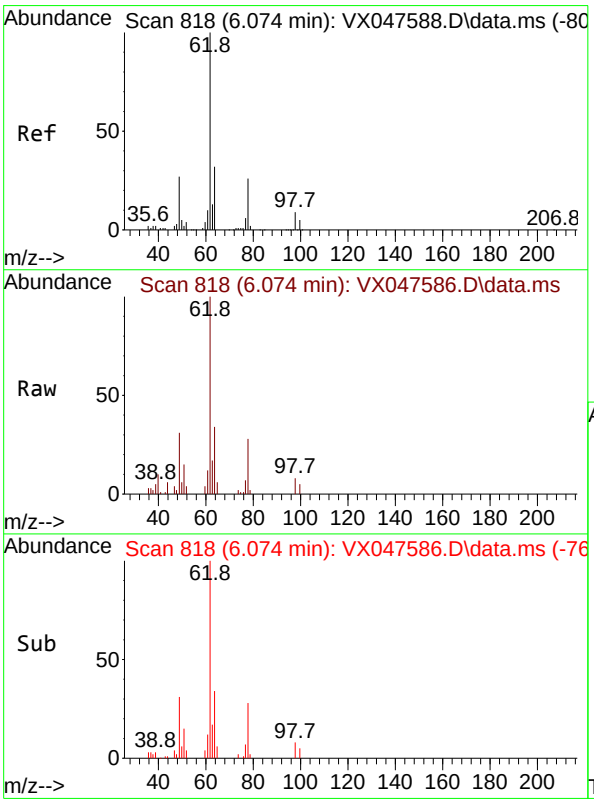
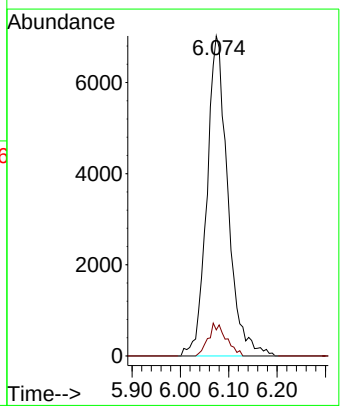
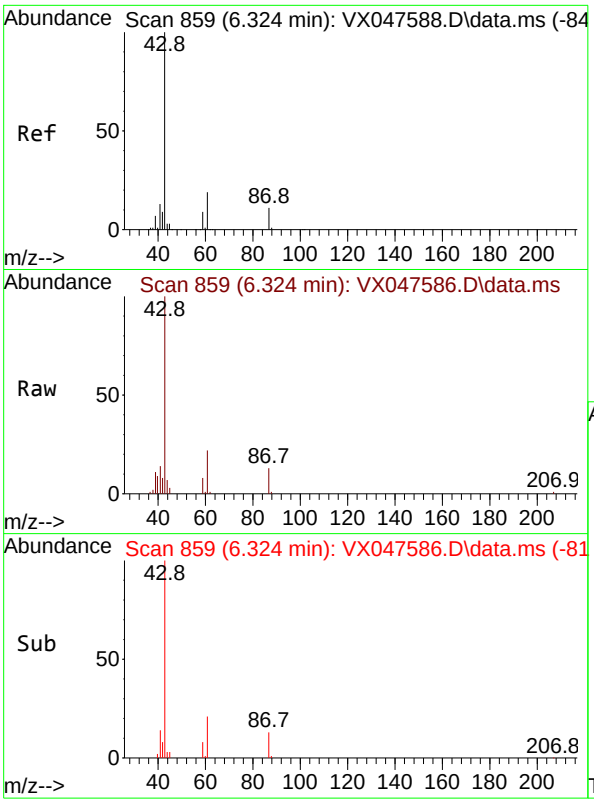


#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 21117

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

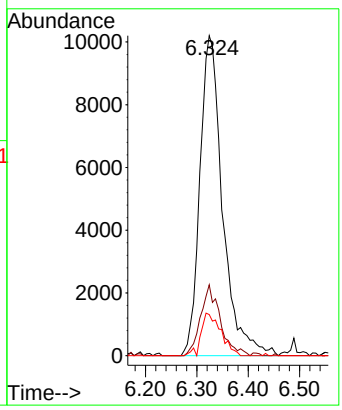




#43
Isopropyl Acetate
Concen: 5.124 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 3130

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	11.6	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
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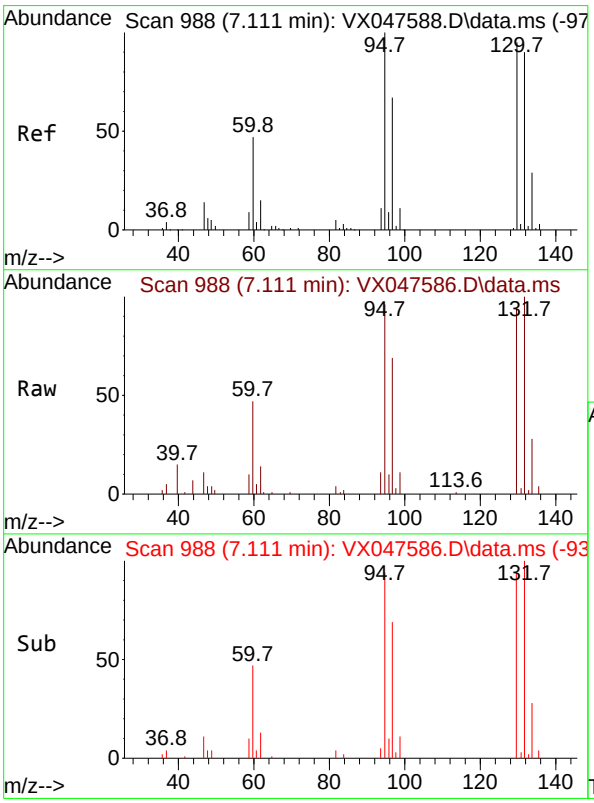
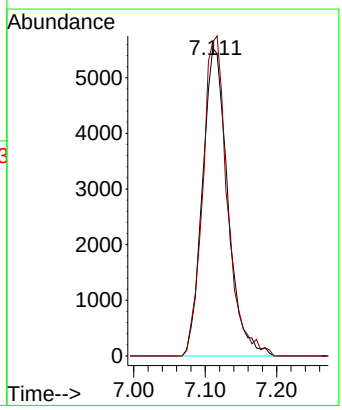
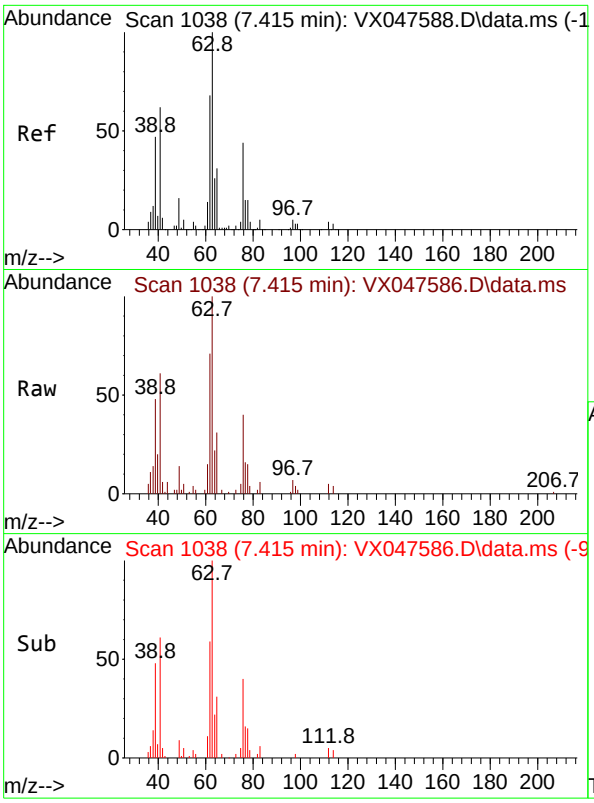


#44
Trichloroethene
Concen: 5.314 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:130 Resp: 13576

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8





#45
1,2-Dichloropropane
Concen: 5.287 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 1430

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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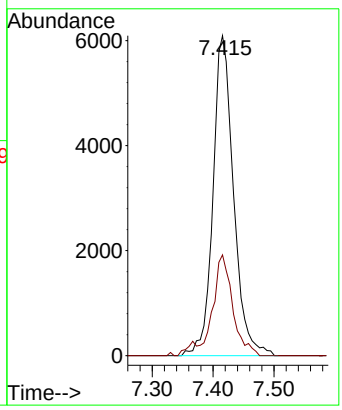
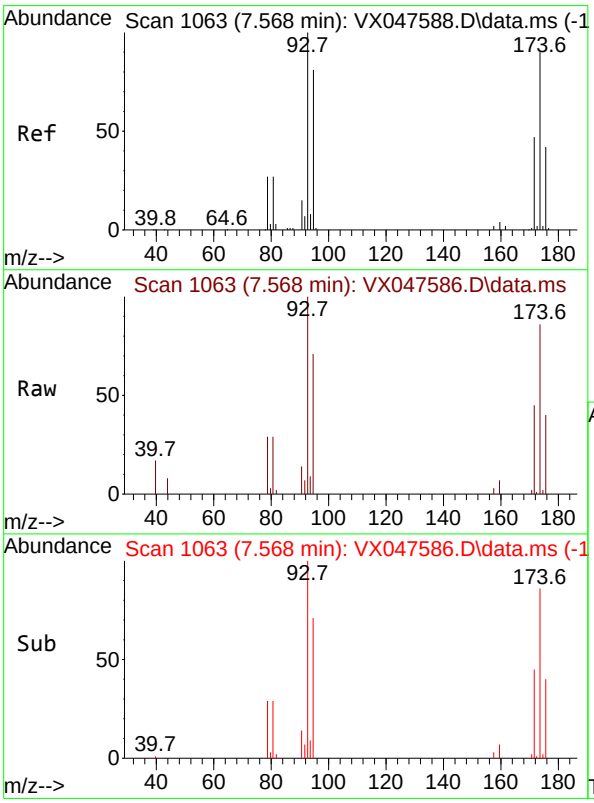
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

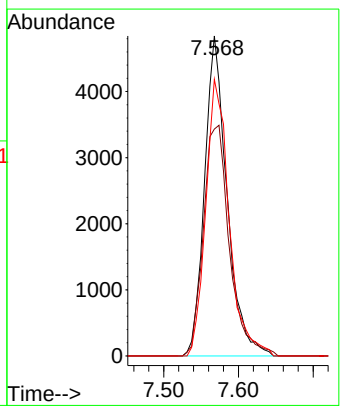


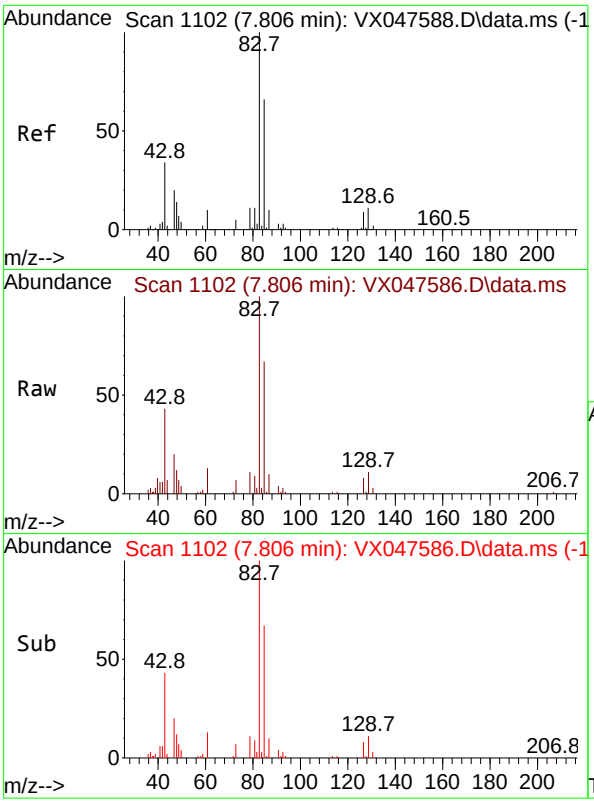


#46
Dibromomethane
Concen: 5.146 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 93 Resp: 10133

Ion	Ratio	Lower	Upper
93	100		
95	83.5	65.0	97.6
174	90.0	71.6	107.4

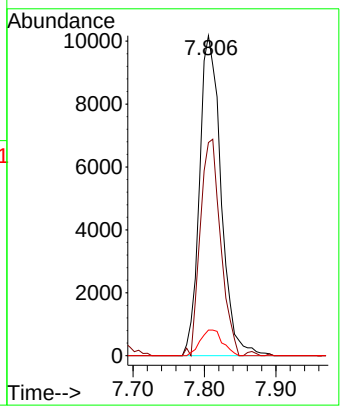




#47
Bromodichloromethane
Concen: 5.235 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 2127

Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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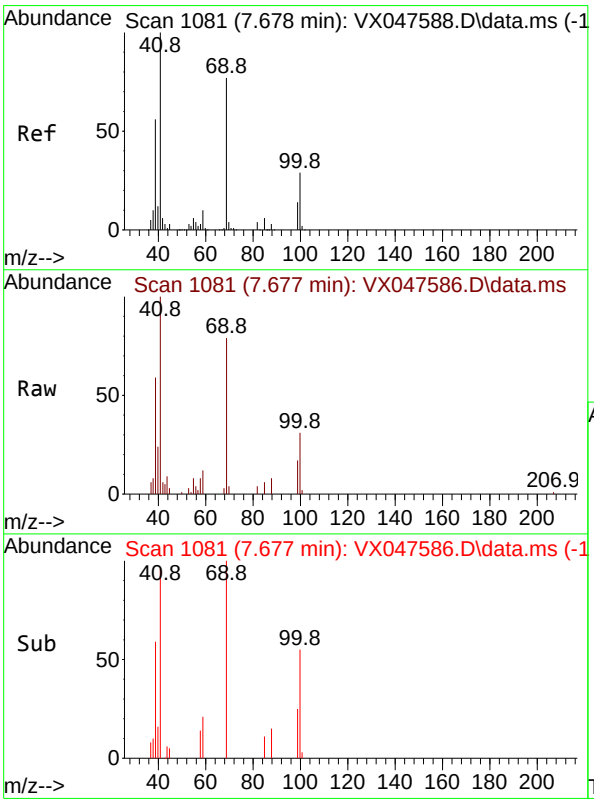
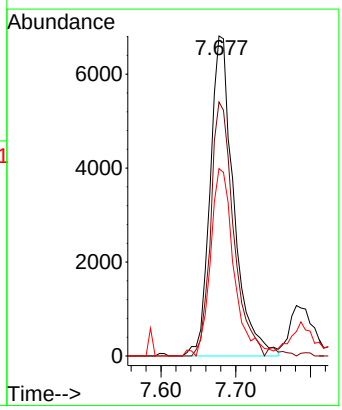
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

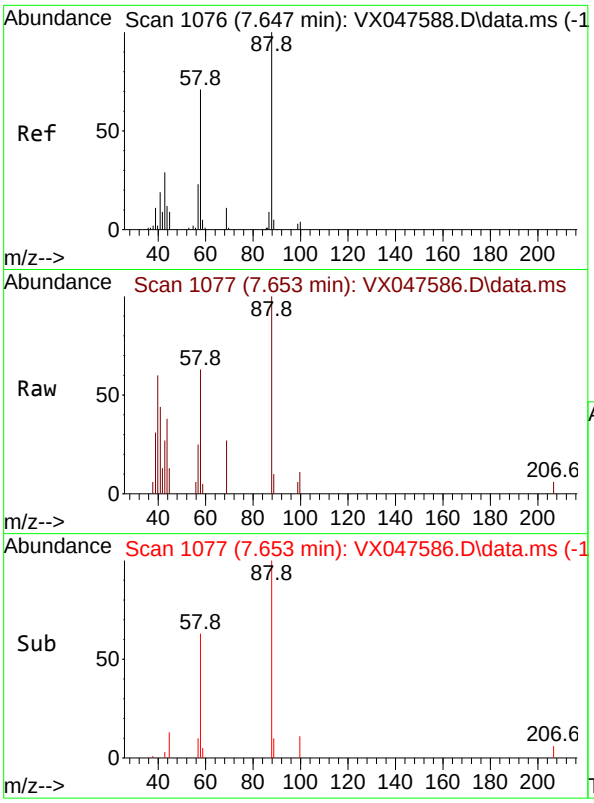


#48
Methyl methacrylate
Concen: 4.915 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 41 Resp: 14959

Ion	Ratio	Lower	Upper
41	100		
69	76.4	61.4	92.2
39	58.2	45.8	68.6

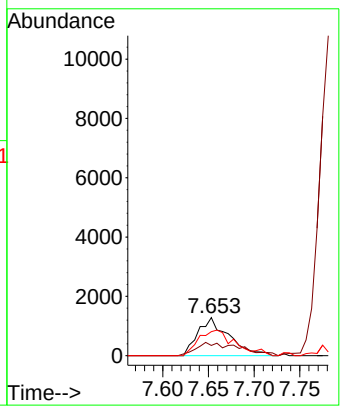




#49
1,4-Dioxane
Concen: 98.096 ug/l
RT: 7.653 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 88 Resp: 301

Ion	Ratio	Lower	Upper
88	100		
43	48.3	30.2	45.2
58	79.1	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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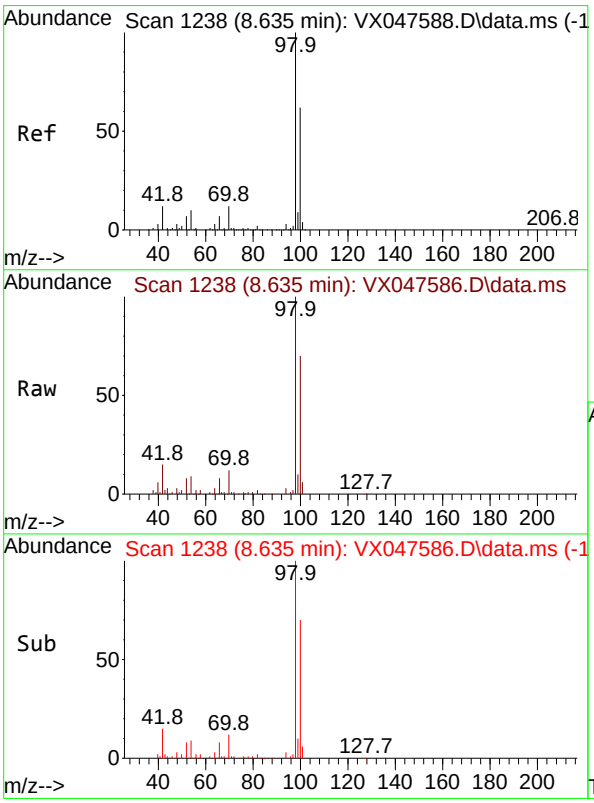
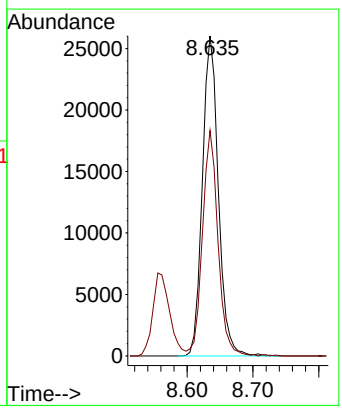
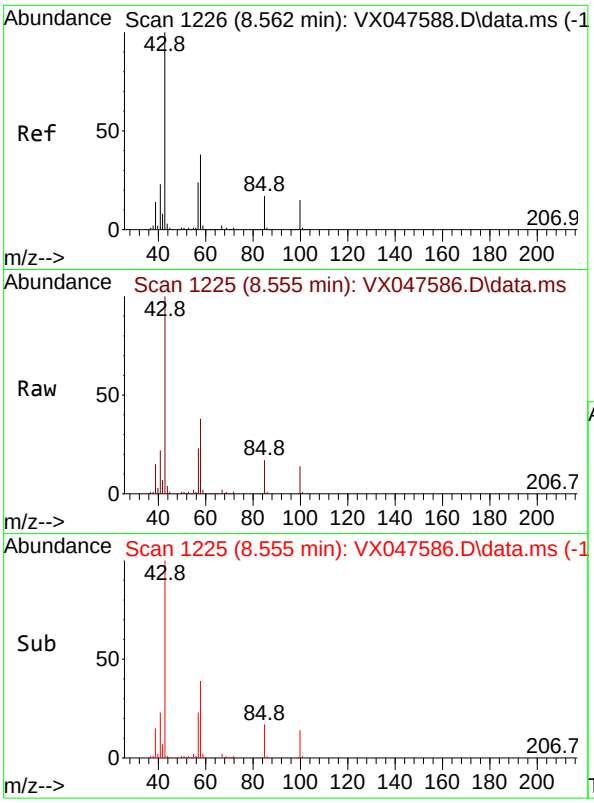


#50
Toluene-d8
Concen: 5.332 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 98 Resp: 43926

Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 25.828 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 8749

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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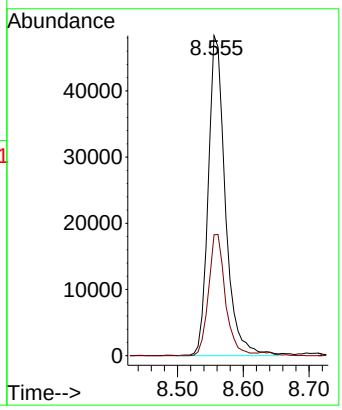
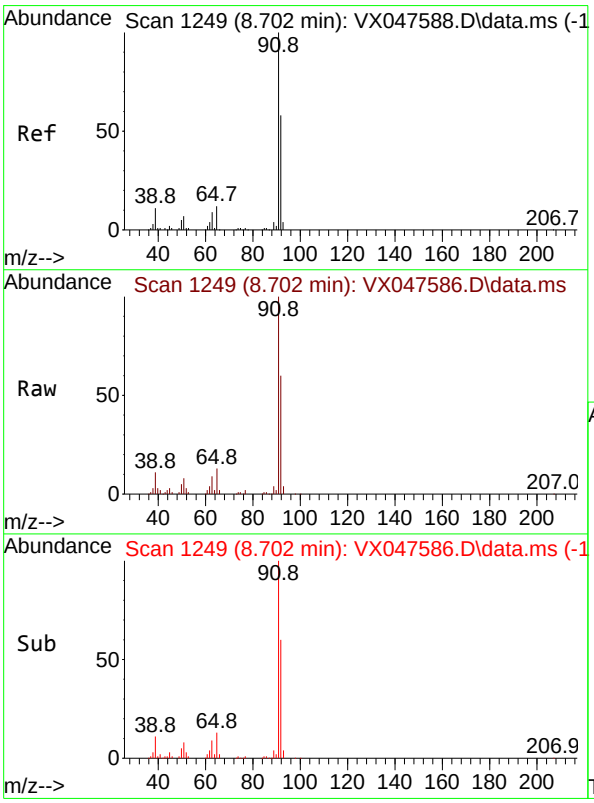
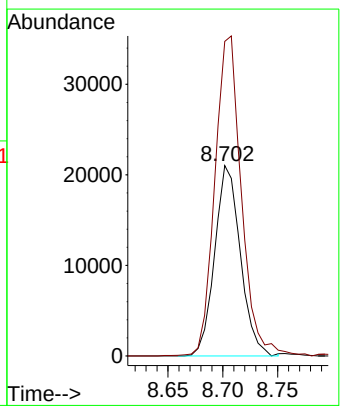


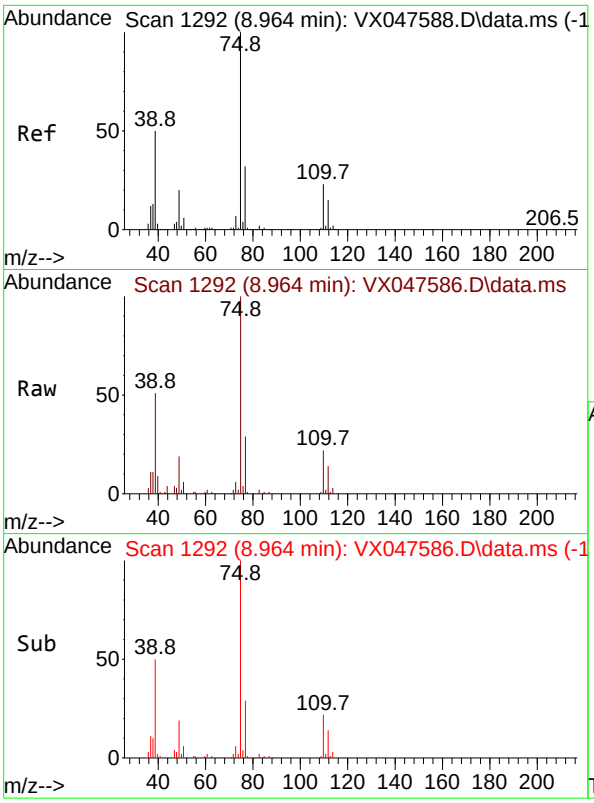


#52
Toluene
Concen: 5.271 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 92 Resp: 34314

Ion	Ratio	Lower	Upper
92	100		
91	173.8	137.1	205.7

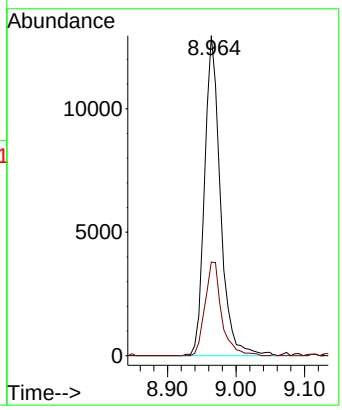




#53
t-1,3-Dichloropropene
Concen: 5.034 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 2086

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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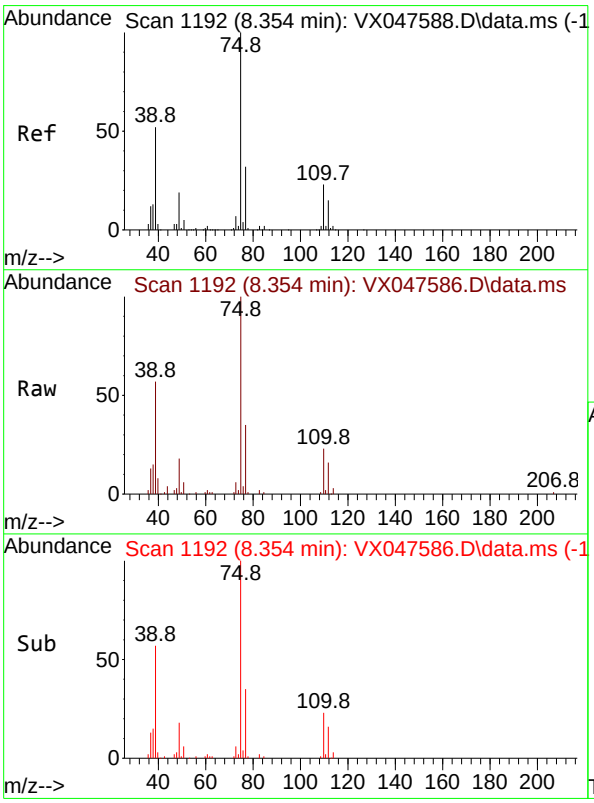
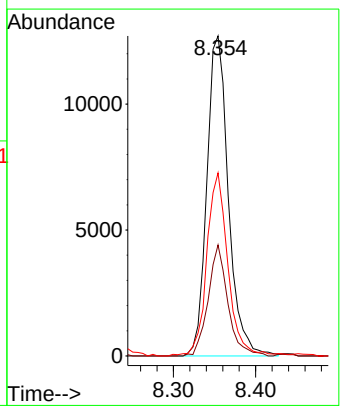
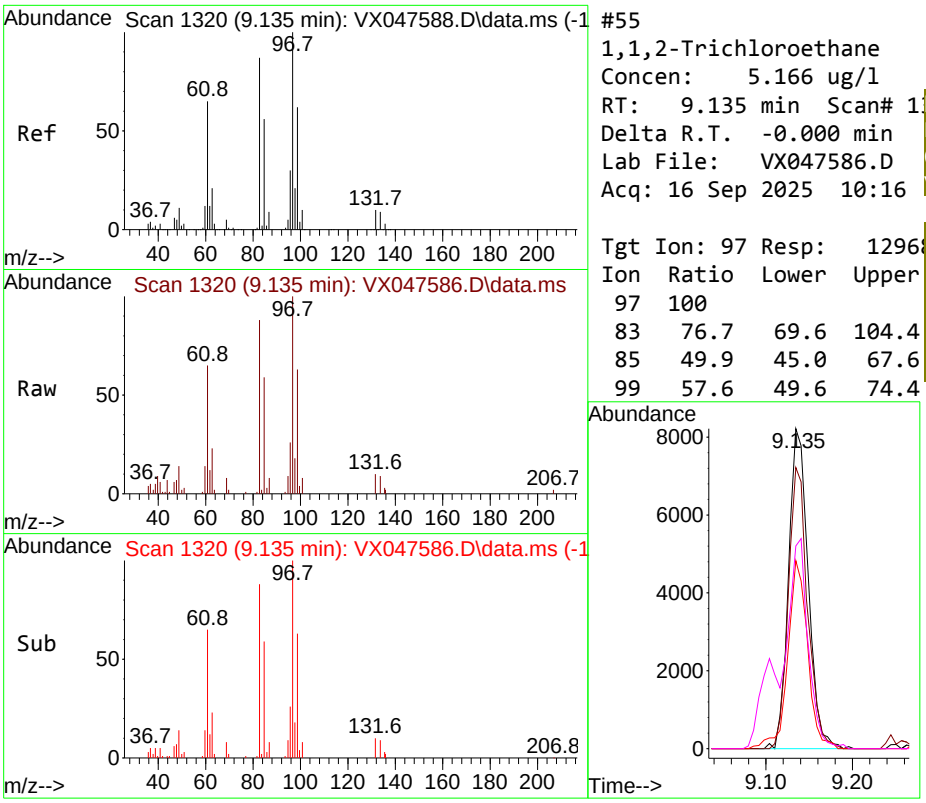


#54
cis-1,3-Dichloropropene
Concen: 5.227 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 23157

Ion	Ratio	Lower	Upper
75	100		
77	34.7	25.8	38.6
39	51.7	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 5.166 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 97 Resp: 1296

Ion	Ratio	Lower	Upper
97	100		
83	76.7	69.6	104.4
85	49.9	45.0	67.6
99	57.6	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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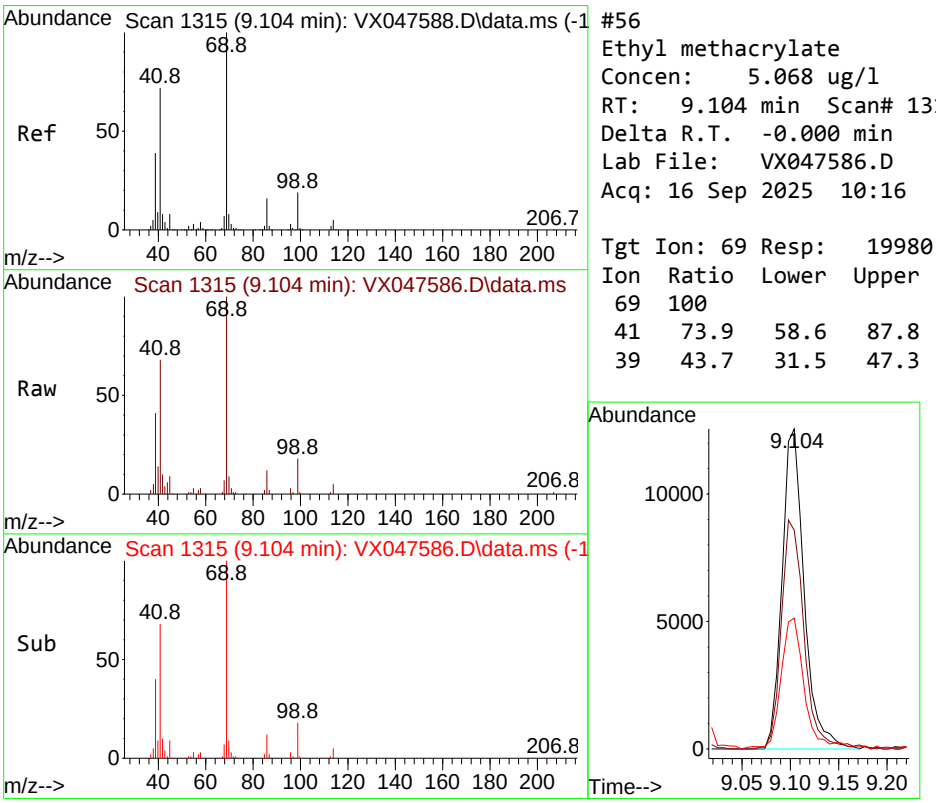
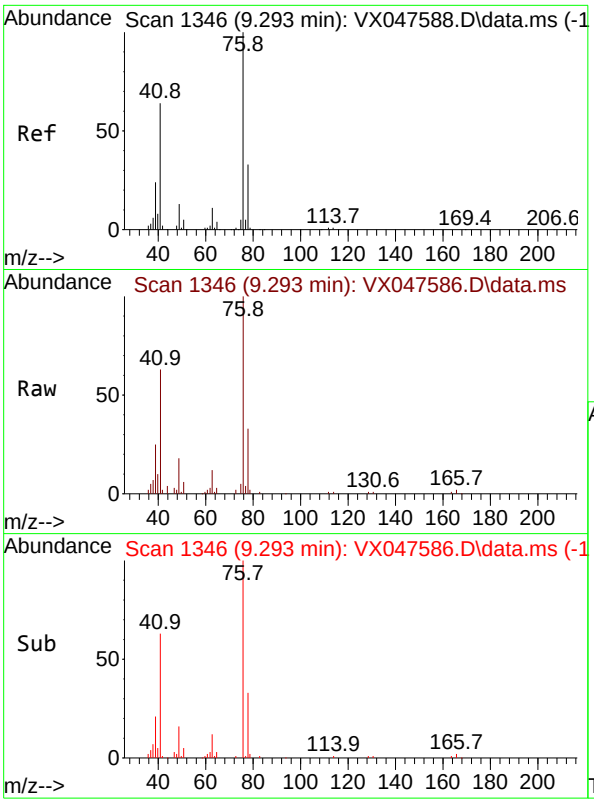
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#56
Ethyl methacrylate
Concen: 5.068 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 69 Resp: 19980

Ion	Ratio	Lower	Upper
69	100		
41	73.9	58.6	87.8
39	43.7	31.5	47.3



#57
1,3-Dichloropropane
Concen: 5.331 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 76 Resp: 2298

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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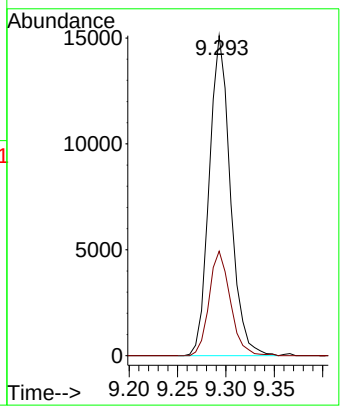
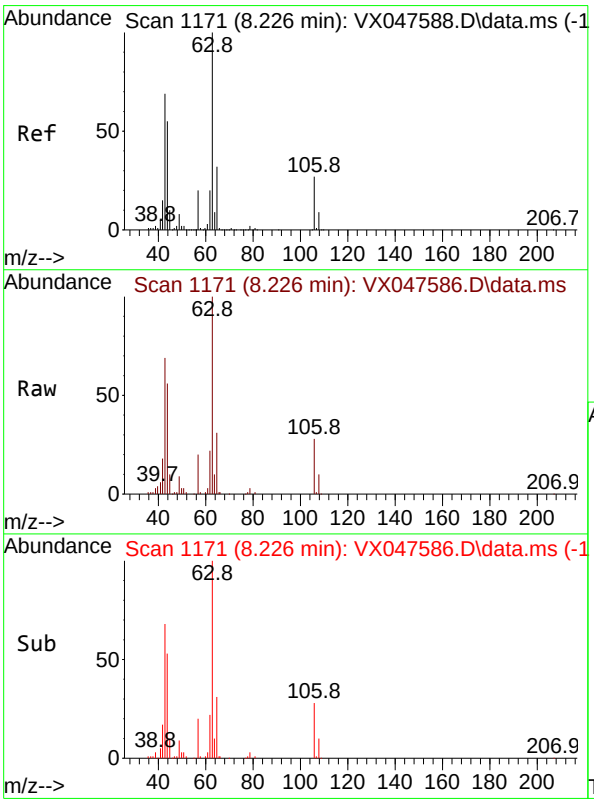
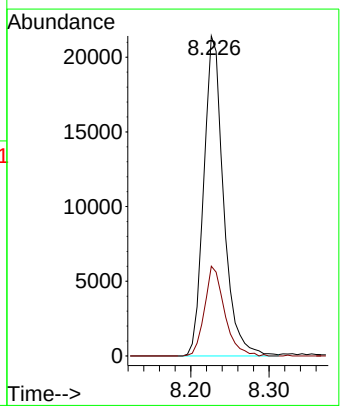


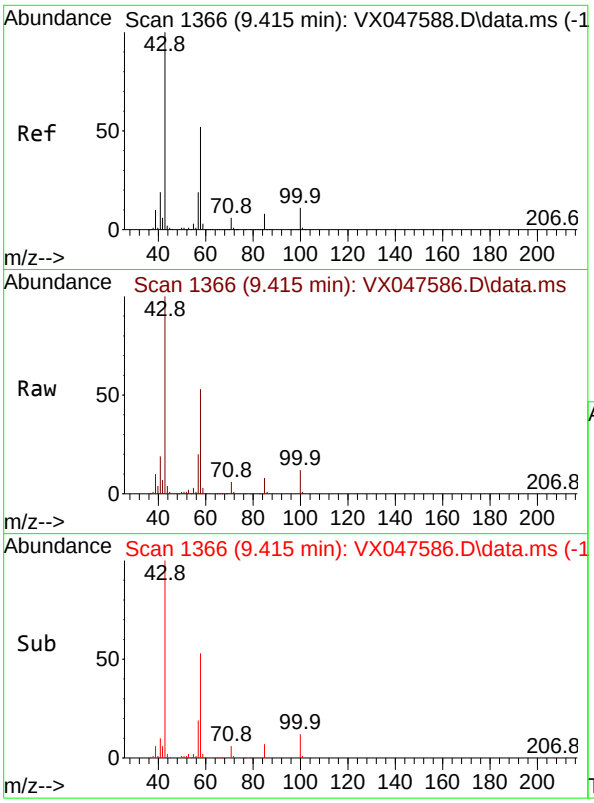


#58
2-Chloroethyl Vinyl ether
Concen: 27.899 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 37585

Ion	Ratio	Lower	Upper
63	100		
106	28.3	21.9	32.9

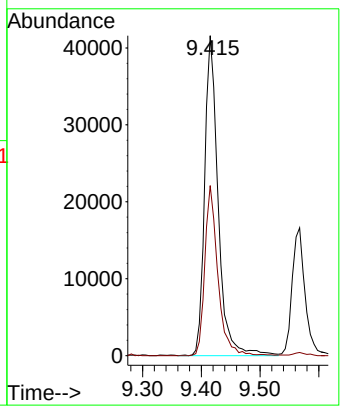




#59
2-Hexanone
Concen: 27.275 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 6635

Ion	Ratio	Lower	Upper
43	100		
58	51.1	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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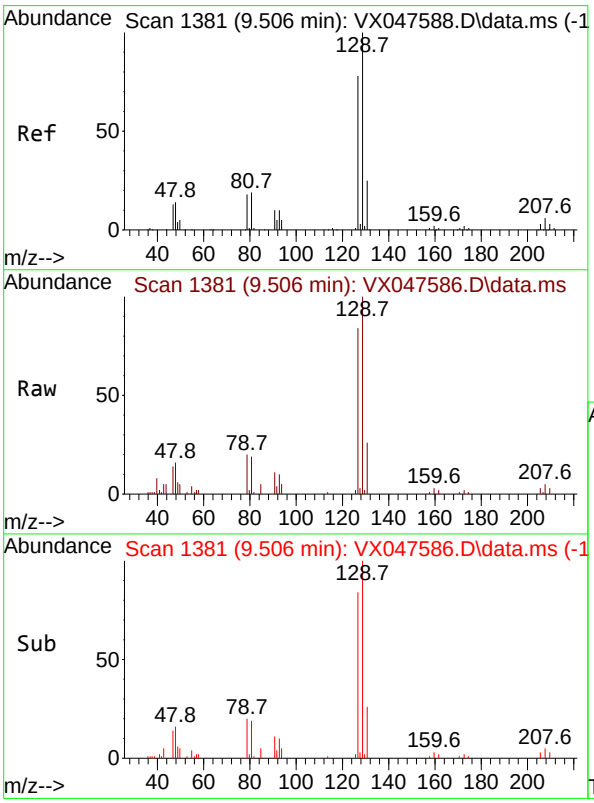
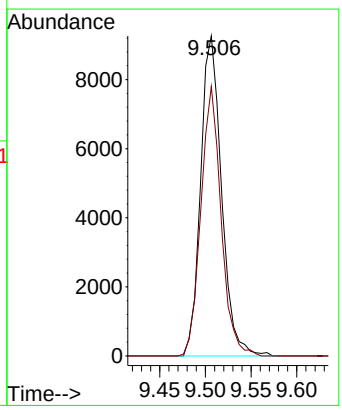
Supervised By :Mahesh Dadoda 09/18/2025

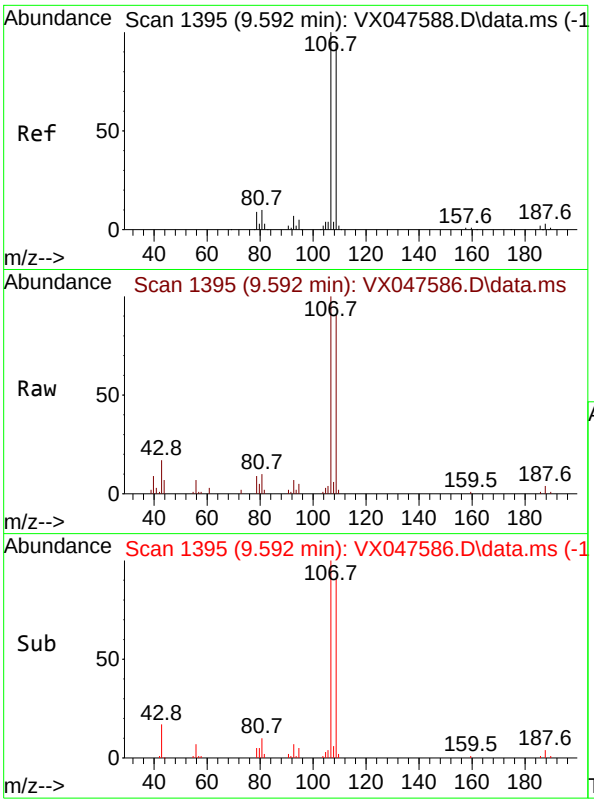


#60
Dibromochloromethane
Concen: 5.084 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:129 Resp: 14705

Ion	Ratio	Lower	Upper
129	100		
127	81.4	38.4	115.2

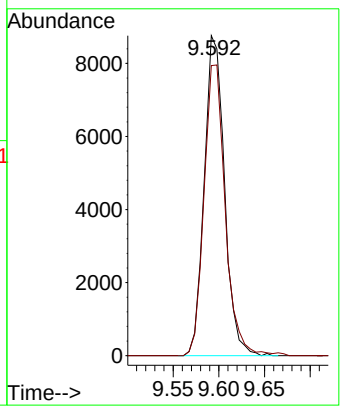




#61
1,2-Dibromoethane
Concen: 5.264 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:107 Resp: 1346

Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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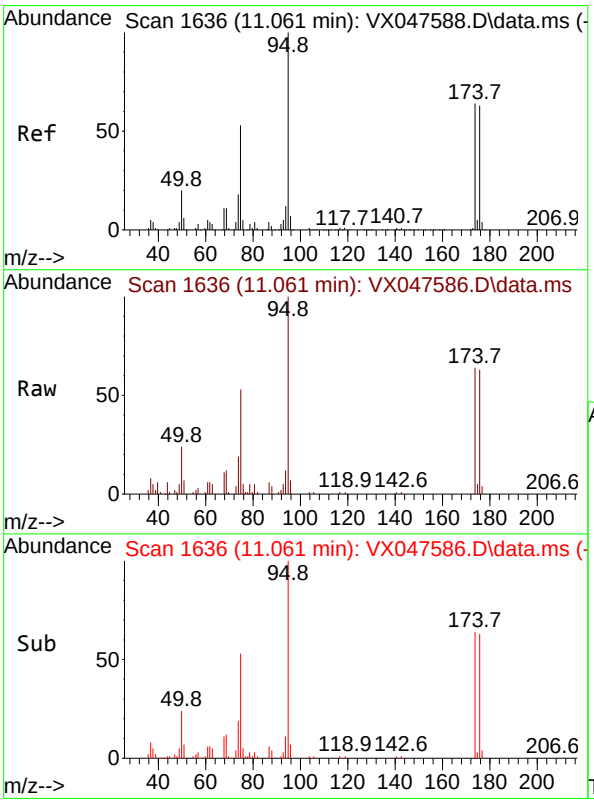
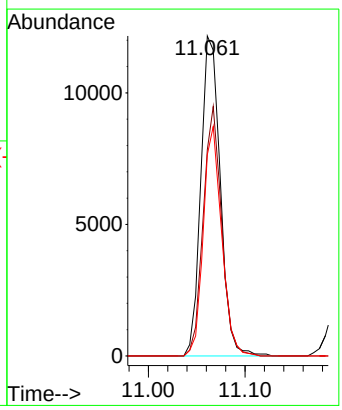
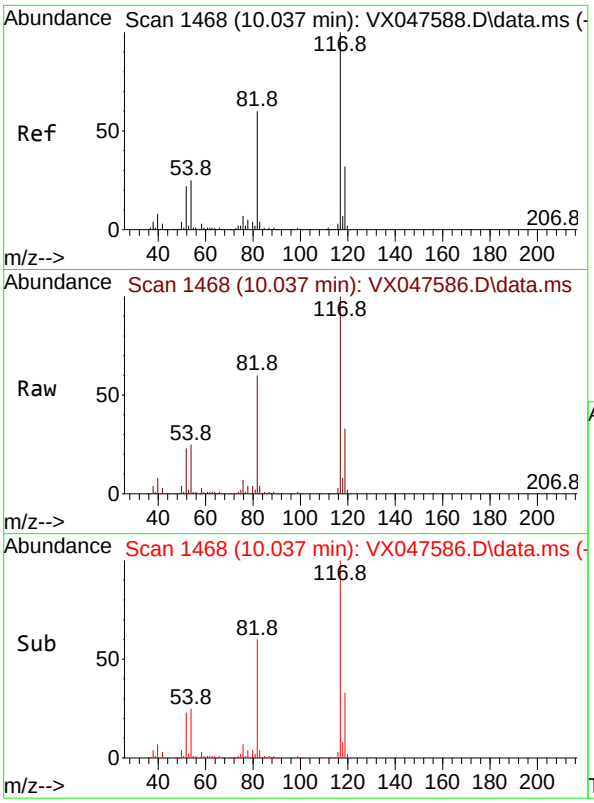


#62
4-Bromofluorobenzene
Concen: 5.429 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 95 Resp: 16974

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	141.6
176	67.9	0.0	138.4

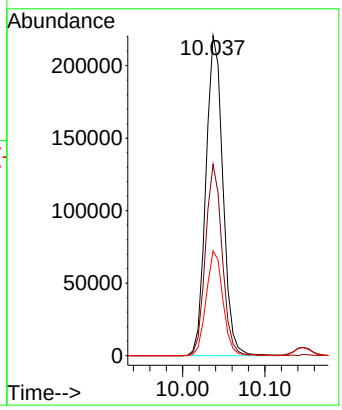




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 31728

Ion	Ratio	Lower	Upper
117	100		
82	59.8	47.8	71.6
119	32.8	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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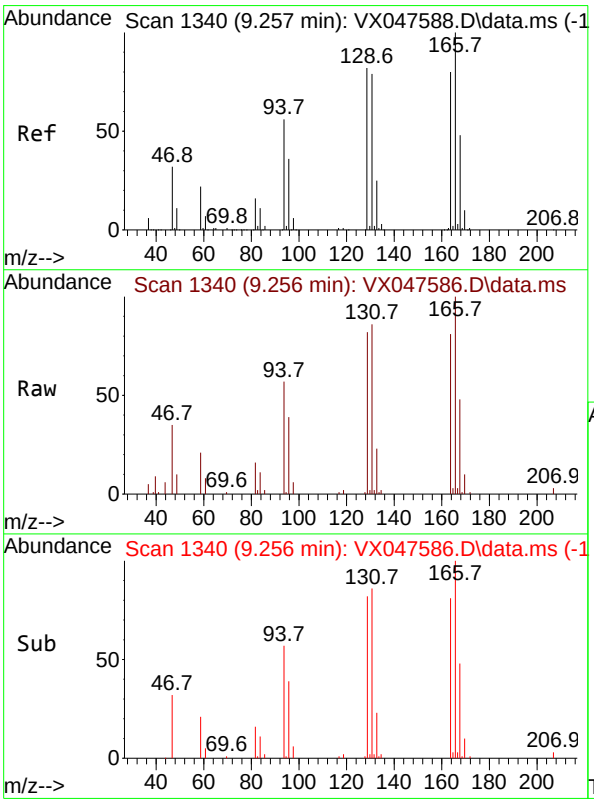
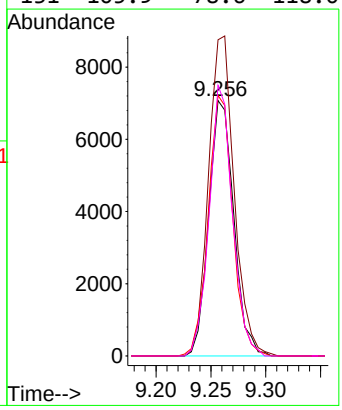
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

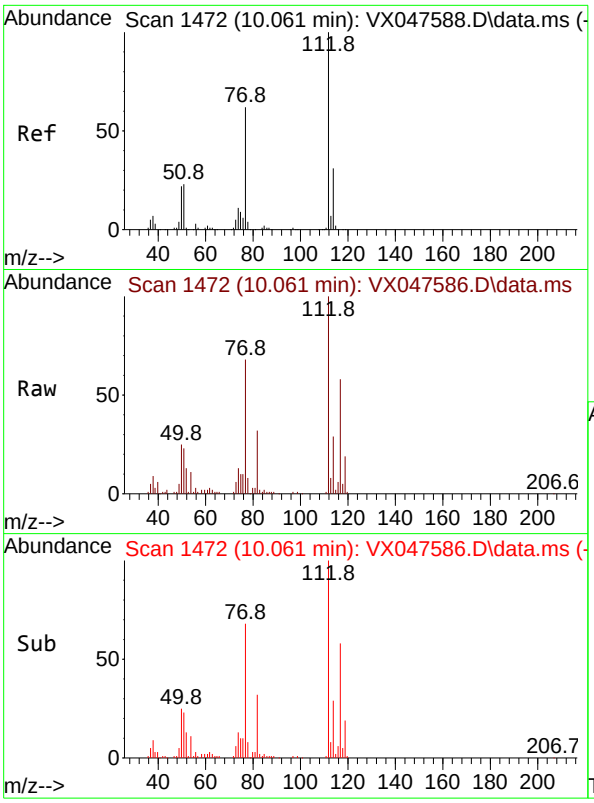


#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:164 Resp: 11228

Ion	Ratio	Lower	Upper
164	100		
166	123.8	100.2	150.2
129	102.0	81.8	122.6
131	105.9	78.6	118.0

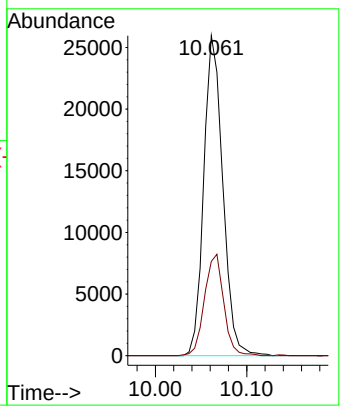




#65
Chlorobenzene
Concen: 5.203 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:112 Resp: 3750

Ion	Ratio	Lower	Upper
112	100		
114	29.2	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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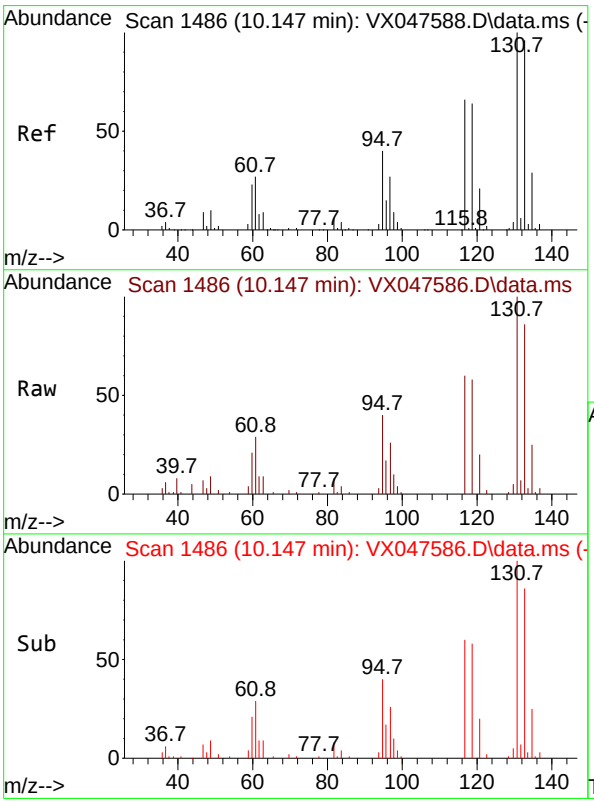
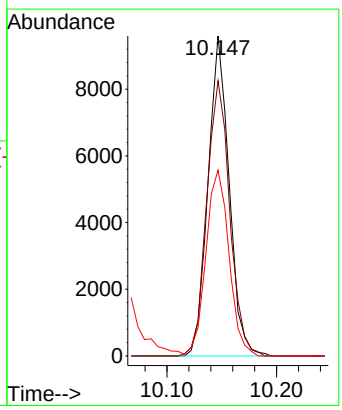
Supervised By :Mahesh Dadoda 09/18/2025

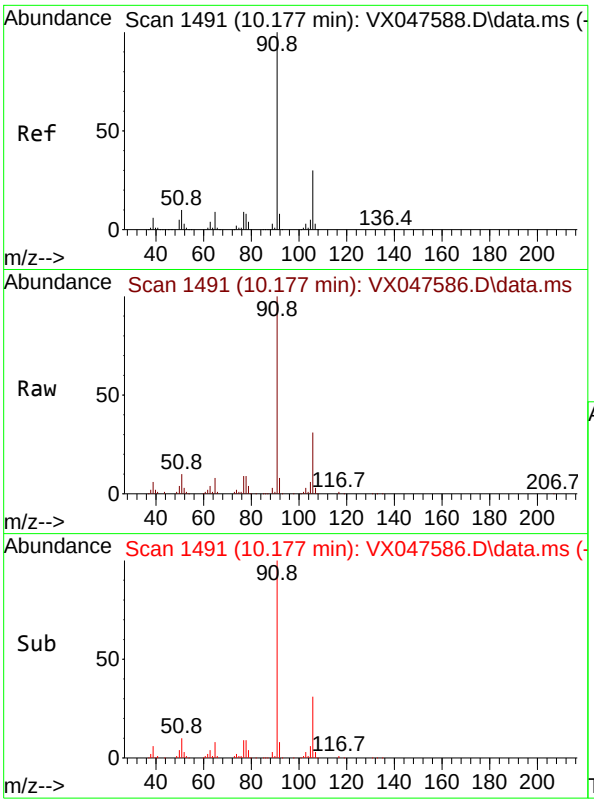


#66
1,1,1,2-Tetrachloroethane
Concen: 5.149 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:131 Resp: 12807

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	142.0
119	63.5	32.0	96.0

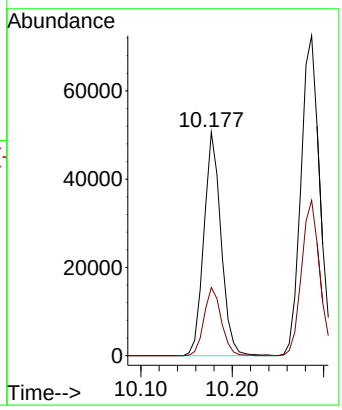




#67
Ethyl Benzene
Concen: 5.299 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 6590

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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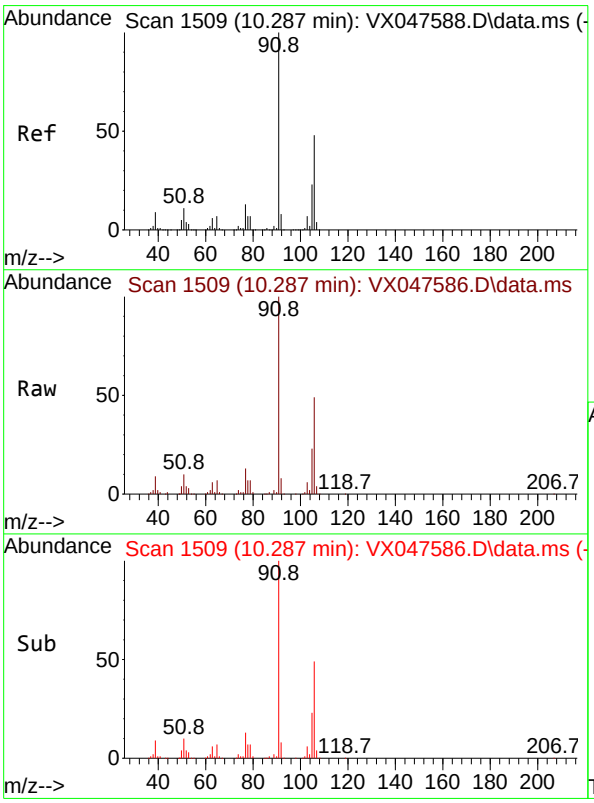
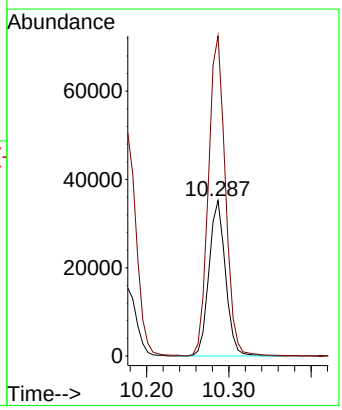
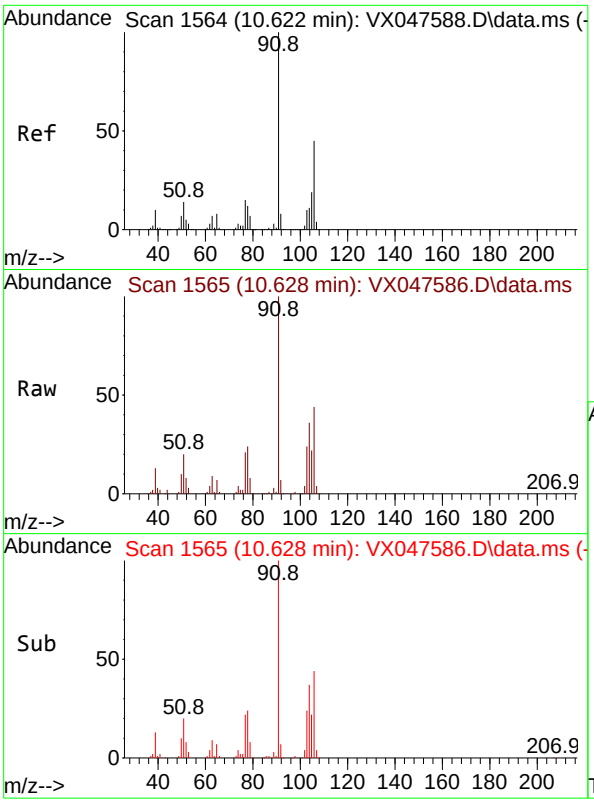


#68
m/p-Xylenes
Concen: 10.613 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 49132

Ion	Ratio	Lower	Upper
106	100		
91	211.6	167.8	251.8

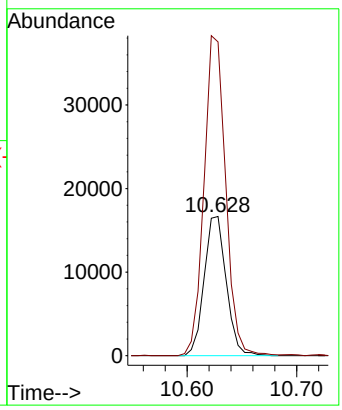




#69
o-Xylene
Concen: 5.204 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:106 Resp: 2330

Ion	Ratio	Lower	Upper
106	100		
91	226.3	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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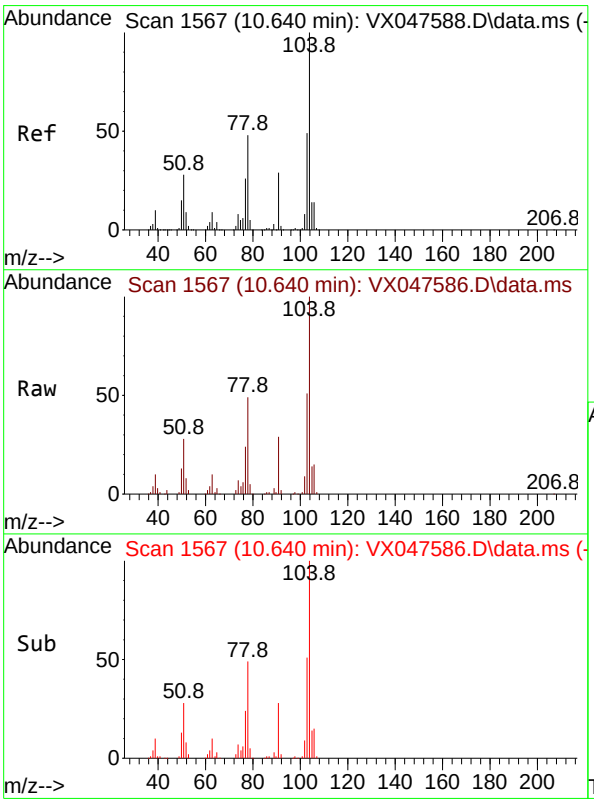
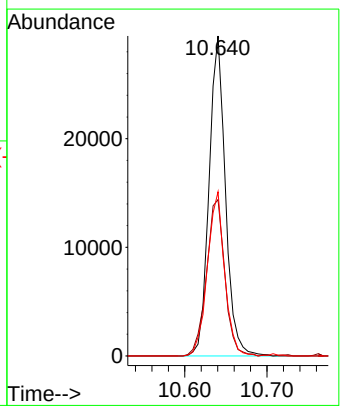
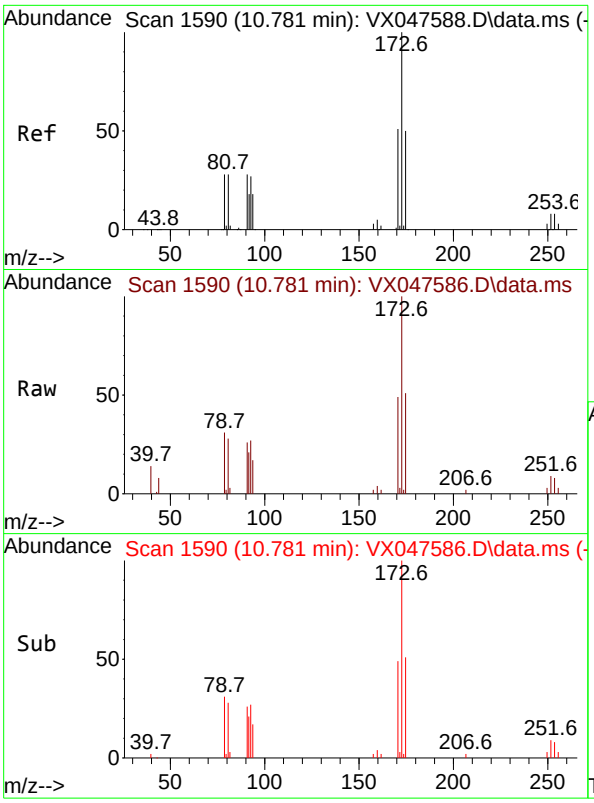


#70
Styrene
Concen: 5.210 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:104 Resp: 40872

Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.1	64.7
103	53.7	43.1	64.7

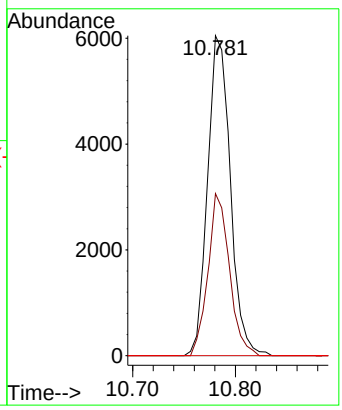




#71
Bromoform
Concen: 5.006 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:173 Resp: 929

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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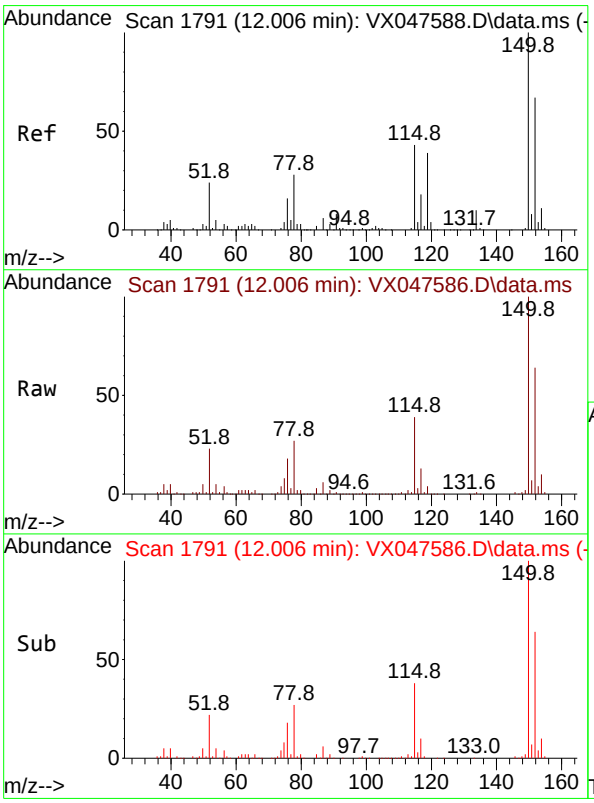
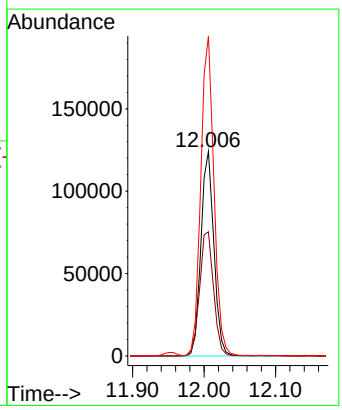
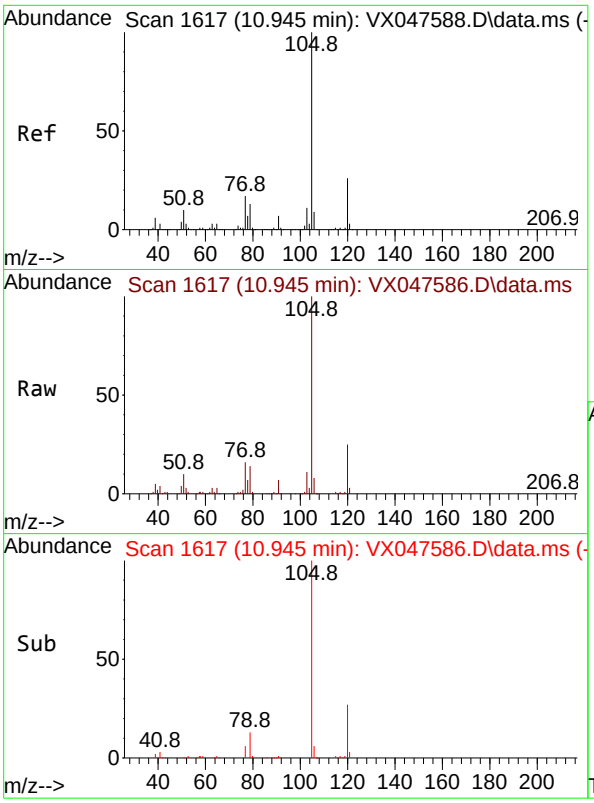


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:152 Resp: 156219

Ion	Ratio	Lower	Upper
152	100		
115	65.6	44.9	134.5
150	157.8	0.0	352.0

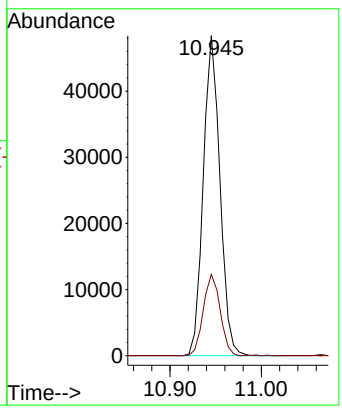




#73
Isopropylbenzene
Concen: 5.139 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 6102

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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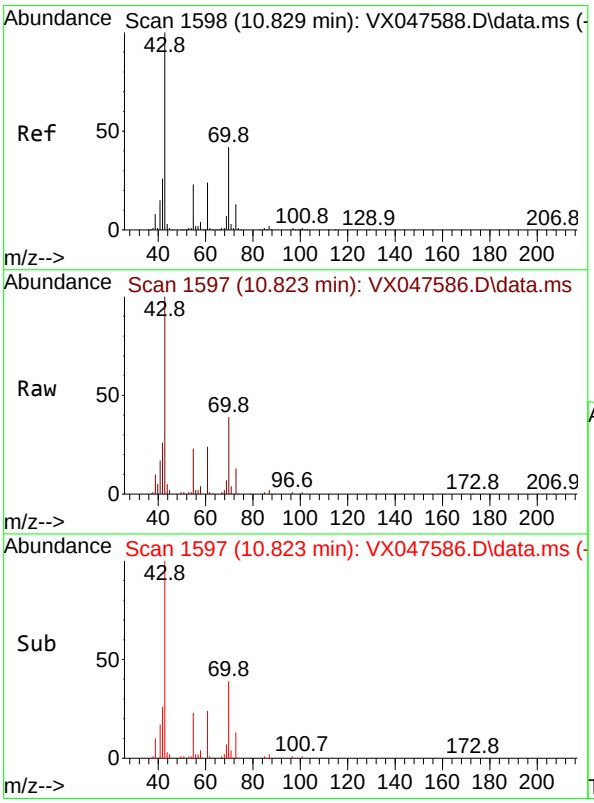
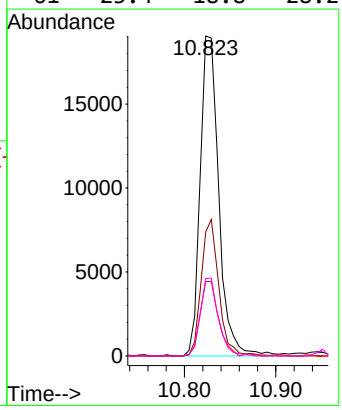
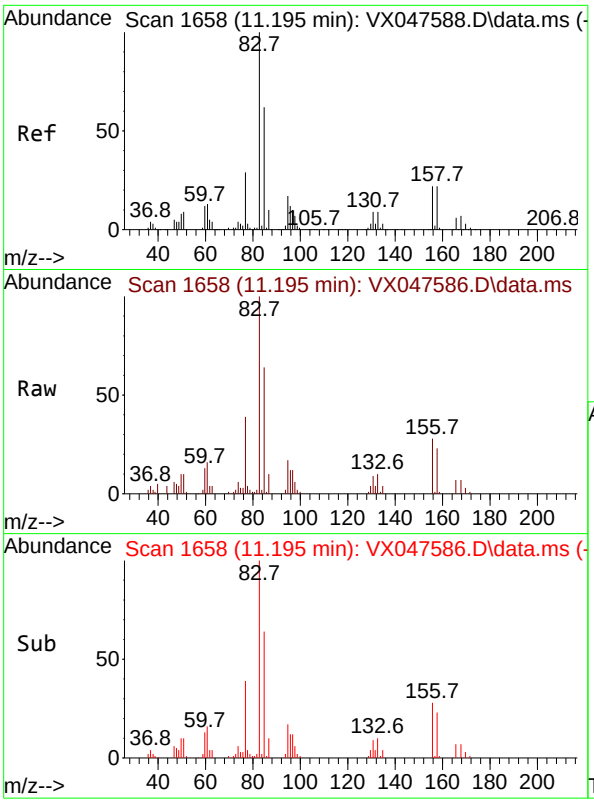


#74
N-amyl acetate
Concen: 4.980 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 26969

Ion	Ratio	Lower	Upper
43	100		
70	39.9	32.0	48.0
55	23.1	18.9	28.3
61	23.4	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 5.138 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 83 Resp: 1846

Ion	Ratio	Lower	Upper
83	100		
131	8.2	5.0	14.9
85	64.4	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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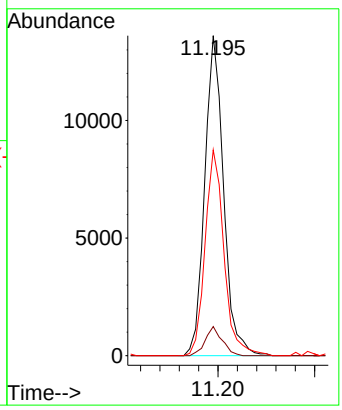
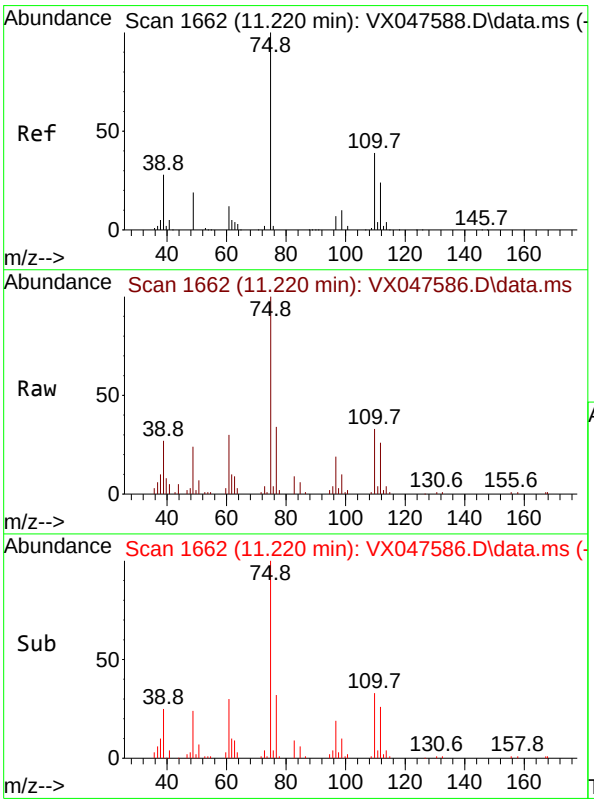
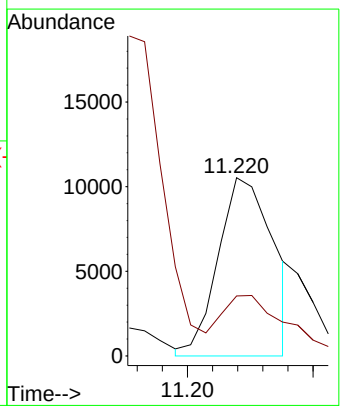


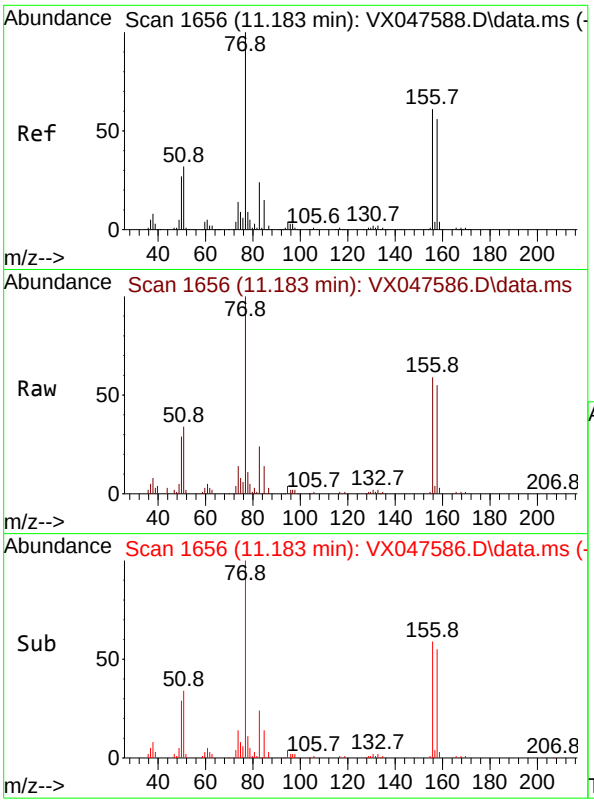


#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 15982

Ion	Ratio	Lower	Upper
75	100		
77	40.6	18.8	56.4

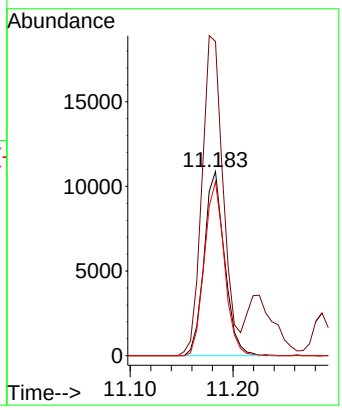




#77
Bromobenzene
Concen: 5.150 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:156 Resp: 1506

Ion	Ratio	Lower	Upper
156	100		
77	180.3	89.7	269.1
158	92.6	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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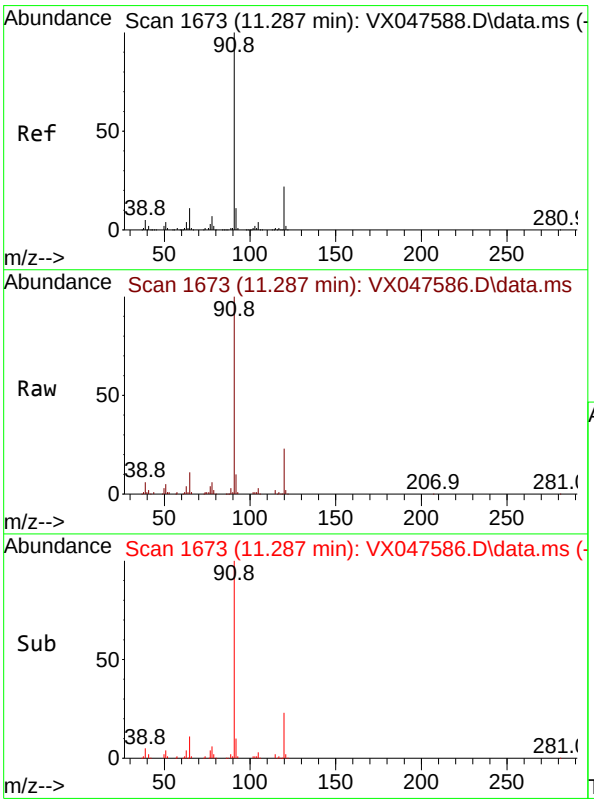
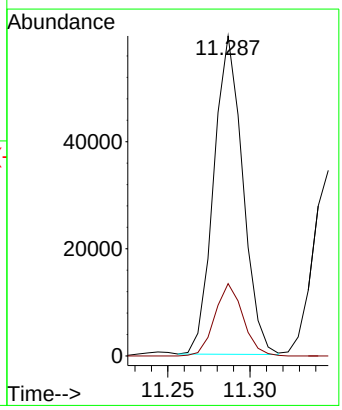
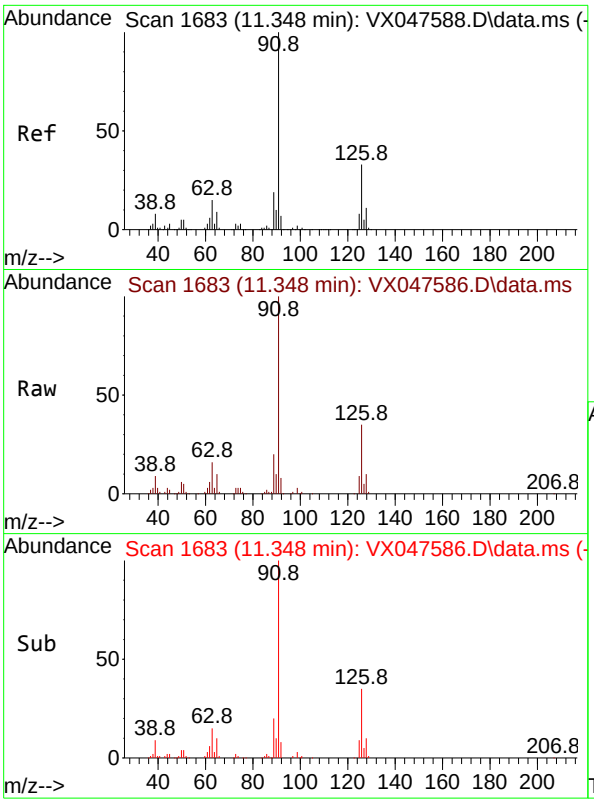


#78
n-propylbenzene
Concen: 5.192 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 72900

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.1	33.1

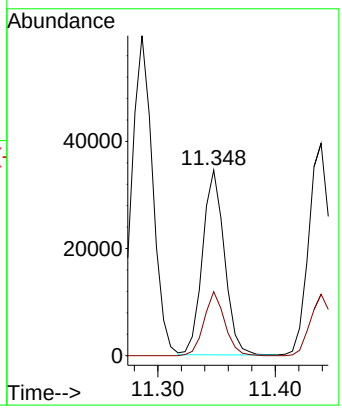




#79
2-Chlorotoluene
Concen: 5.194 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 4466

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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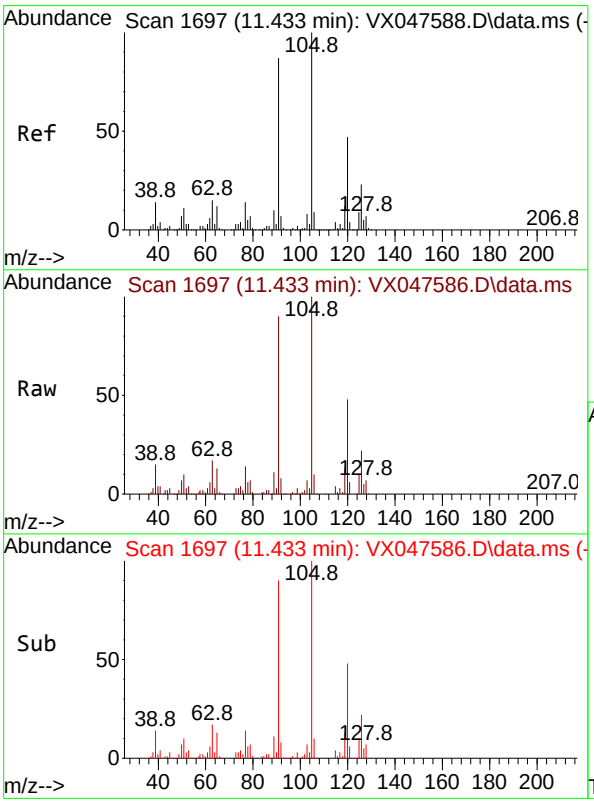
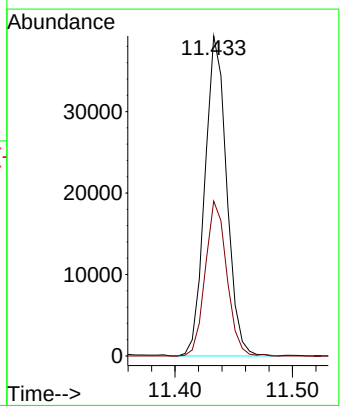
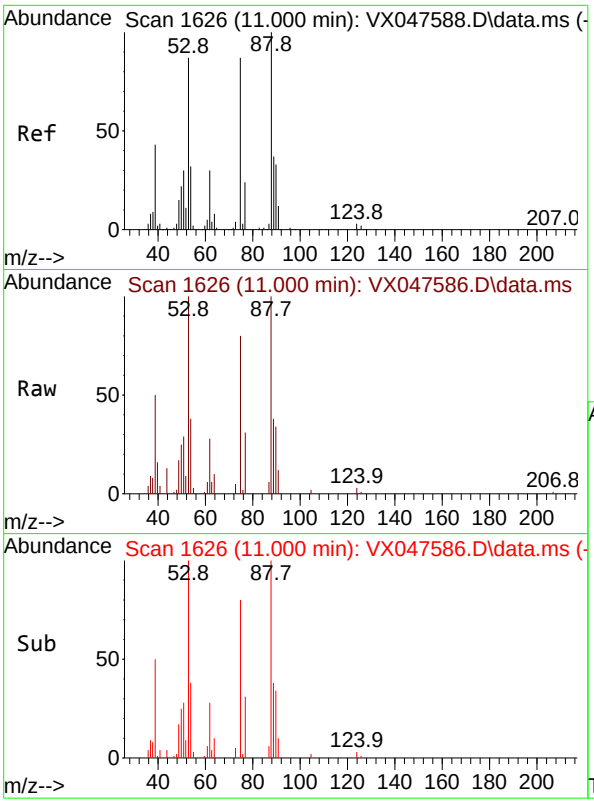


#80
1,3,5-Trimethylbenzene
Concen: 5.179 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 50535

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 541

Ion	Ratio	Lower	Upper
75	100		
53	114.9	83.4	125.2
89	48.3	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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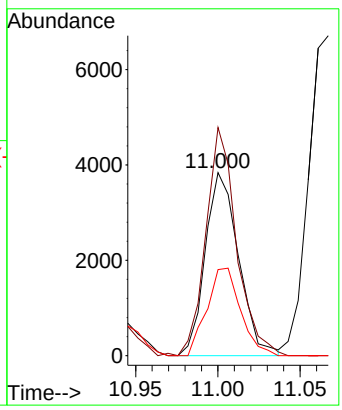
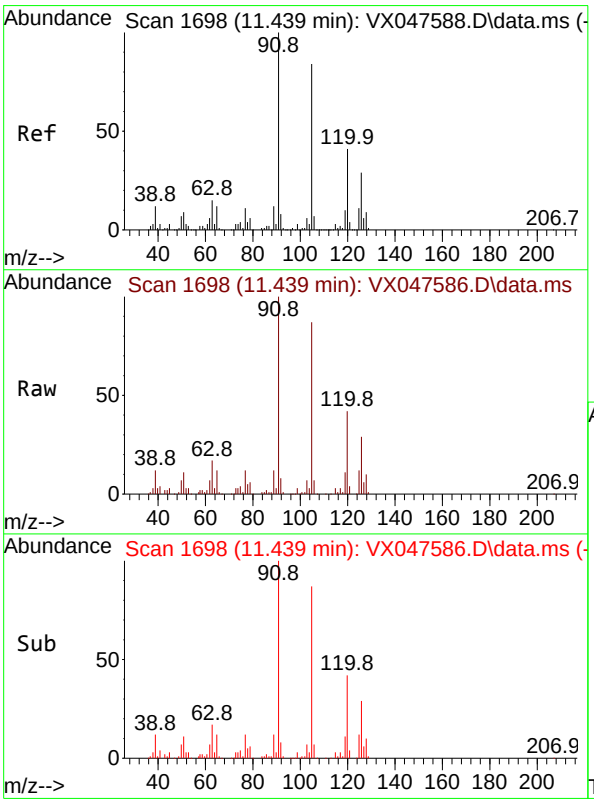
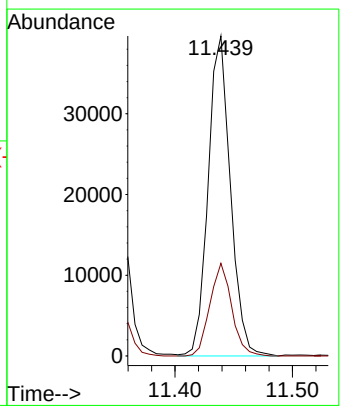


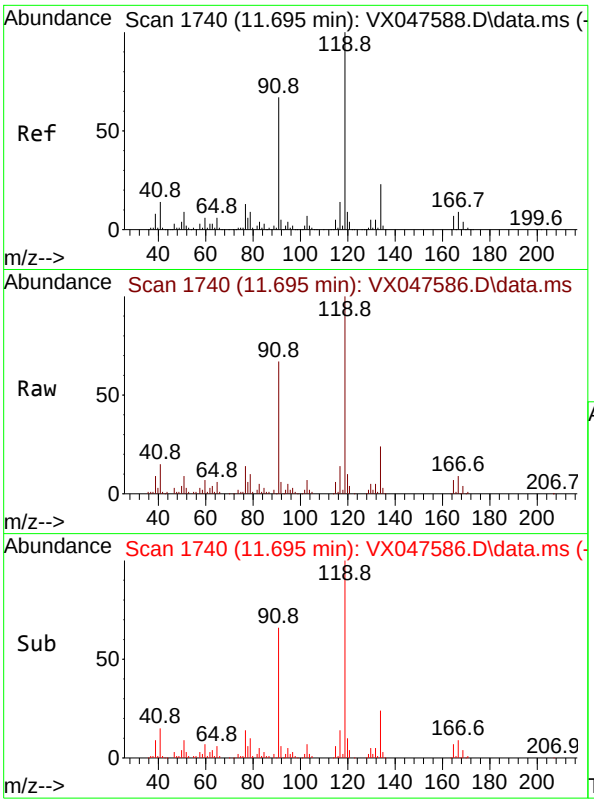


#82
4-Chlorotoluene
Concen: 5.149 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 52294

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.2	42.6

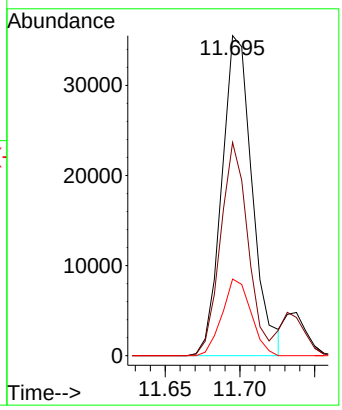




#83
tert-Butylbenzene
Concen: 5.041 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 5035

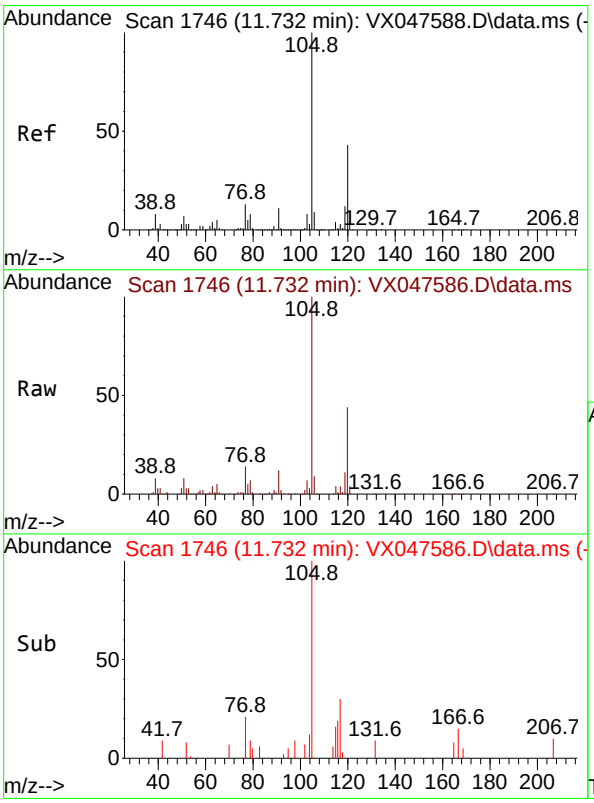
Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.6	88.8
134	22.7	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

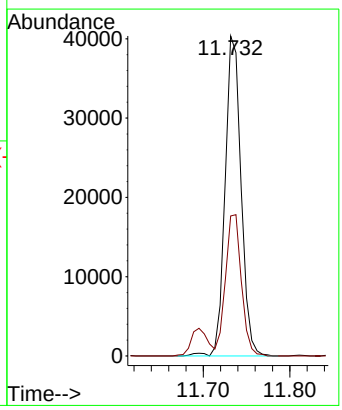
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

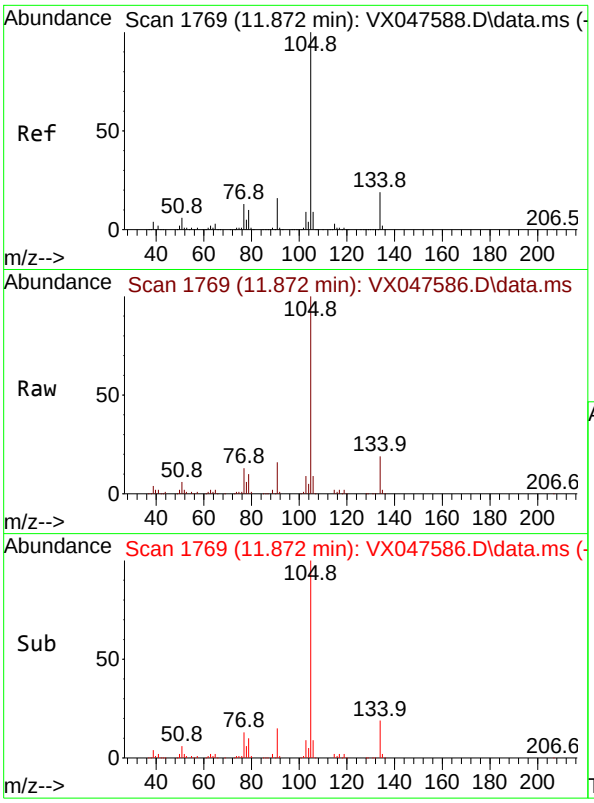


#84
1,2,4-Trimethylbenzene
Concen: 5.214 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 51583

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

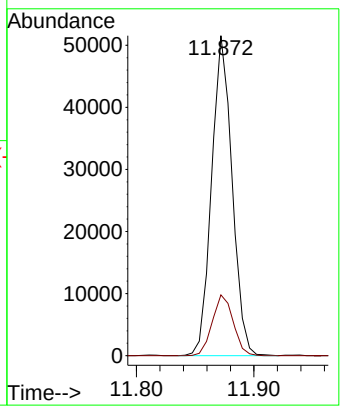




#85
sec-Butylbenzene
Concen: 5.268 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:105 Resp: 6250

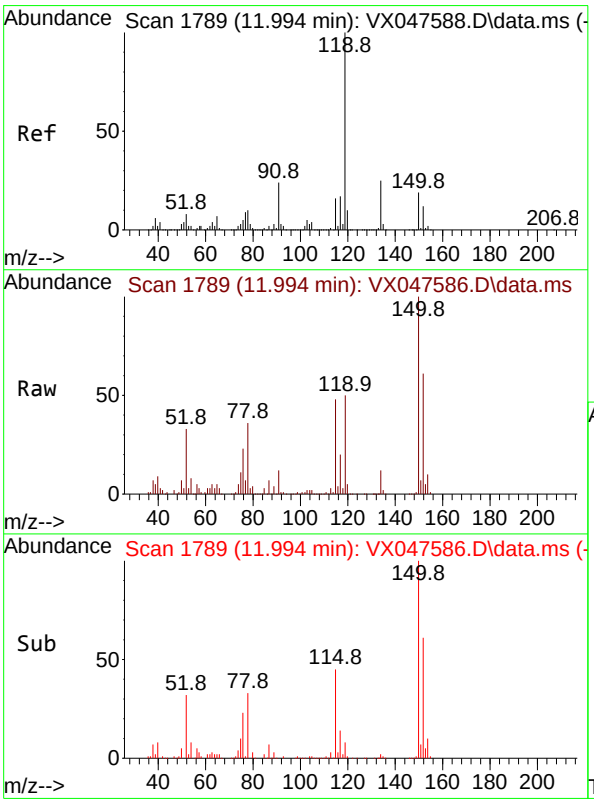
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

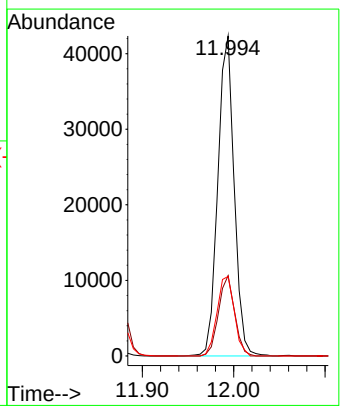
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

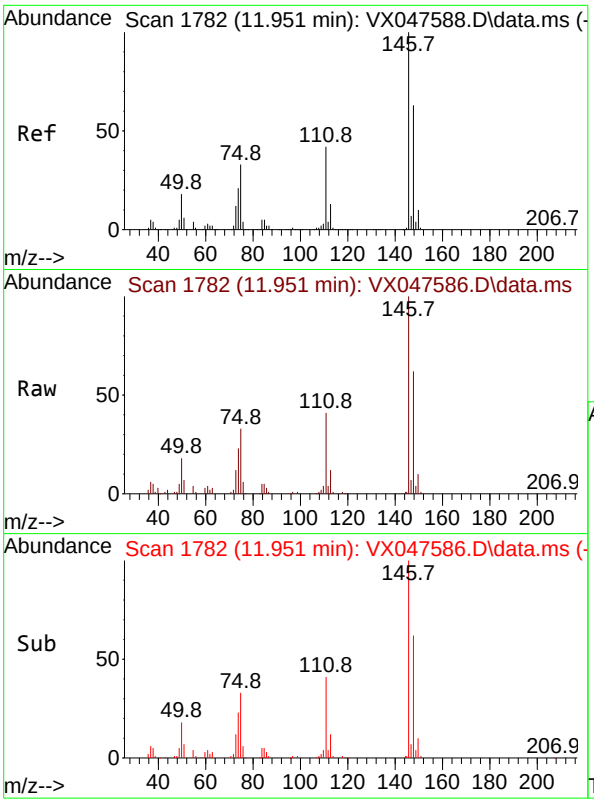


#86
p-Isopropyltoluene
Concen: 5.244 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:119 Resp: 52674

Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.6	37.8
91	26.2	12.6	37.6

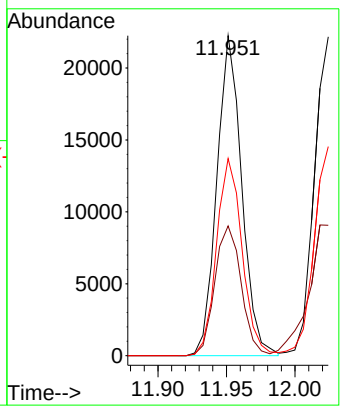




#87
1,3-Dichlorobenzene
Concen: 5.175 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 2811

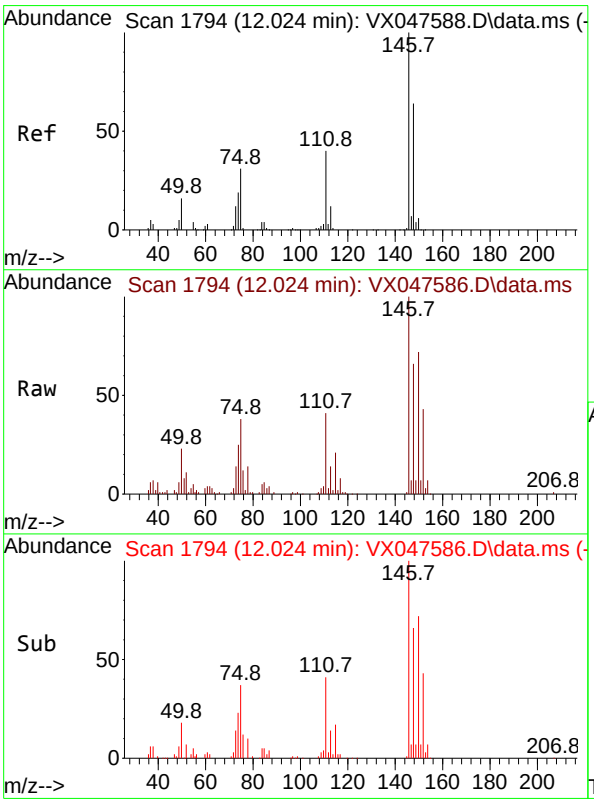
Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	63.4	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

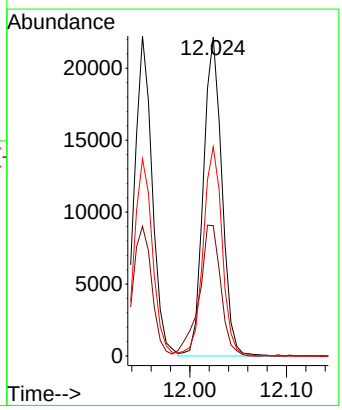
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

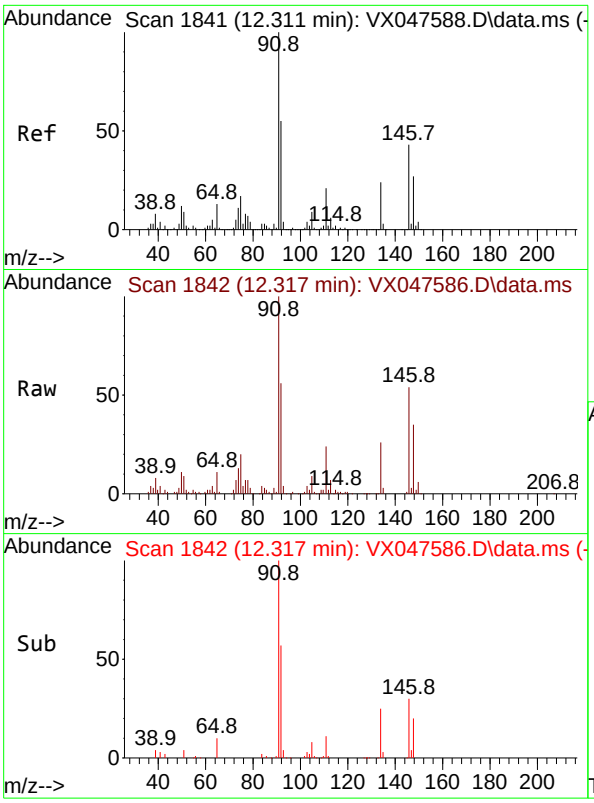


#88
1,4-Dichlorobenzene
Concen: 5.294 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 29519

Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.8	62.4
148	66.9	31.7	95.1

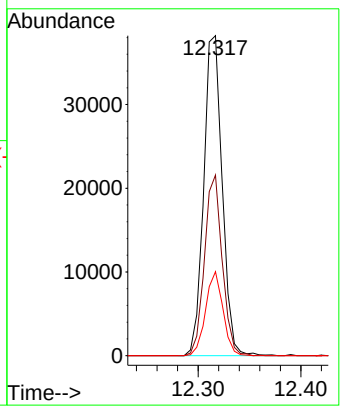




#89
n-Butylbenzene
Concen: 5.159 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 4795

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.7
134	24.6	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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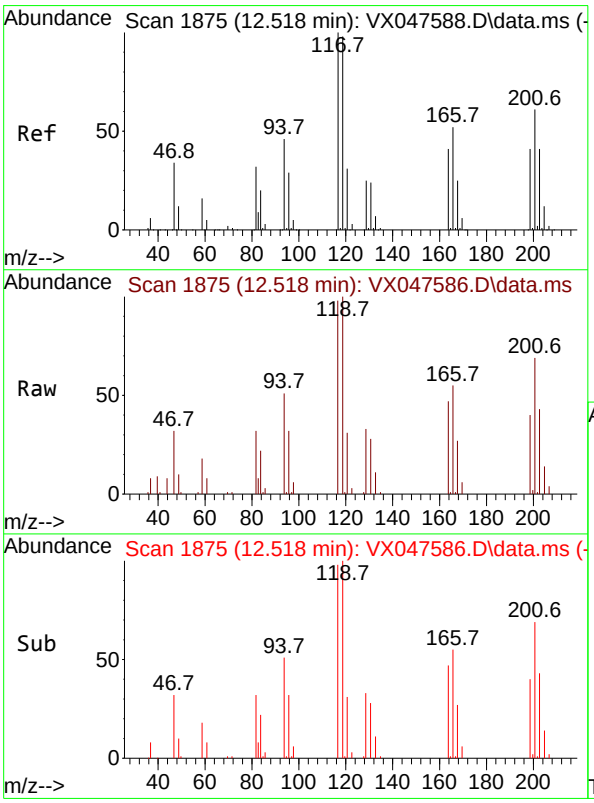
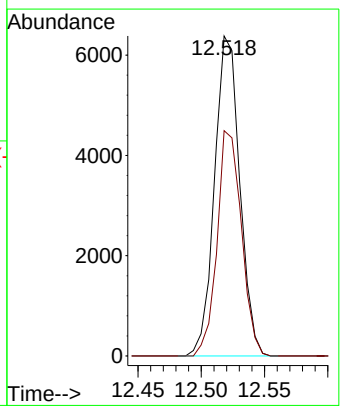
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

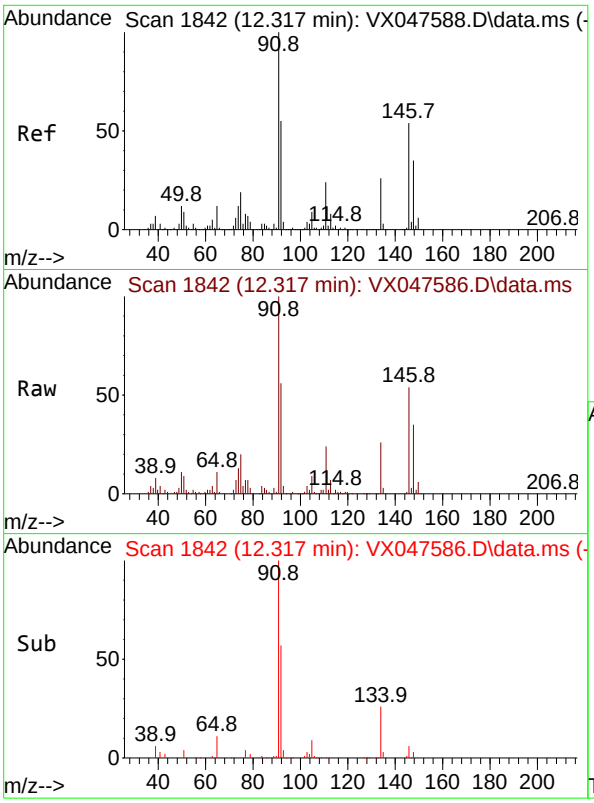


#90
Hexachloroethane
Concen: 5.007 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:117 Resp: 8830

Ion	Ratio	Lower	Upper
117	100		
201	67.9	34.2	102.5

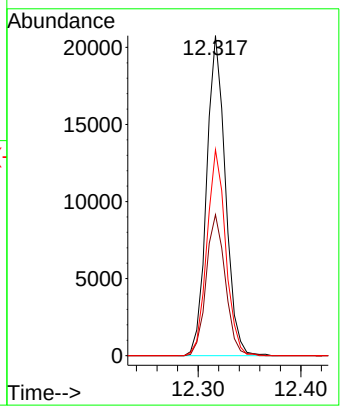




#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:146 Resp: 2640

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.2	66.6
148	64.2	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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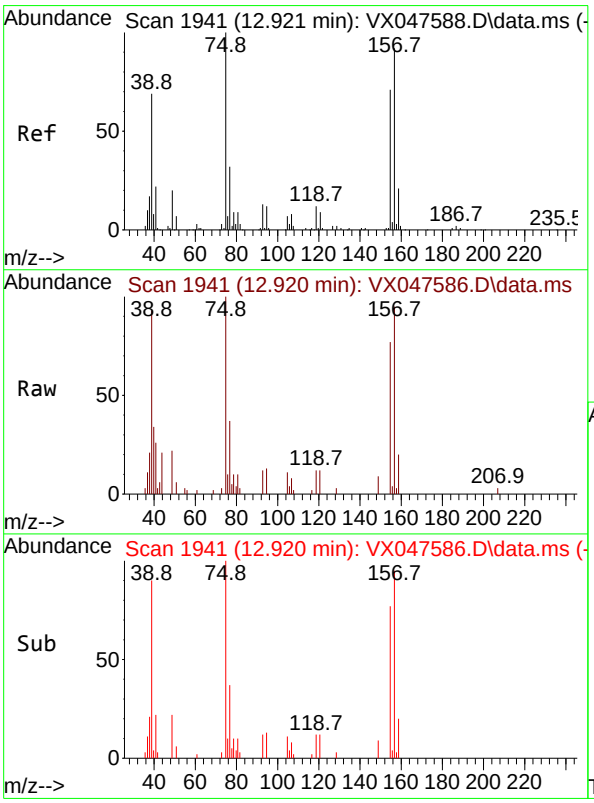
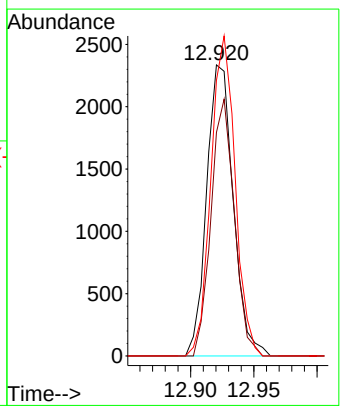
Supervised By :Mahesh Dadoda 09/18/2025

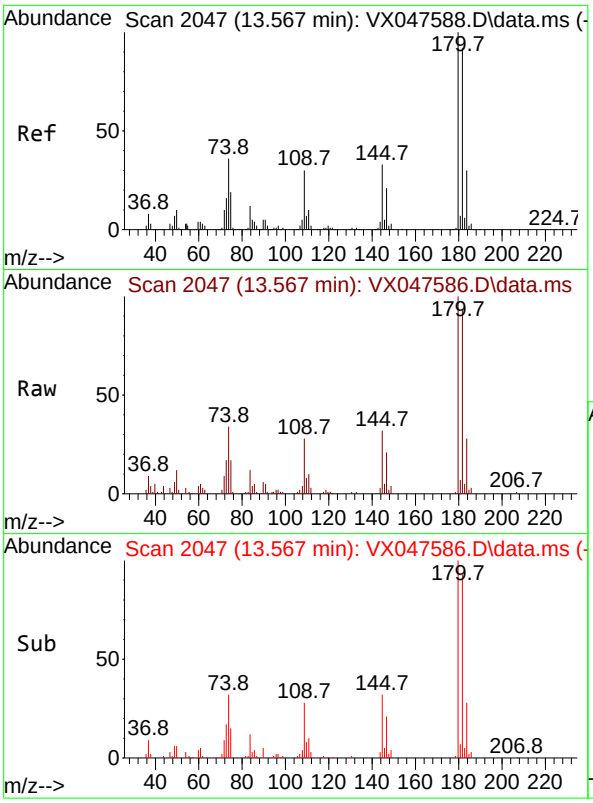


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.690 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 3412

Ion	Ratio	Lower	Upper
75	100		
155	77.4	37.7	113.1
157	100.1	49.8	149.4

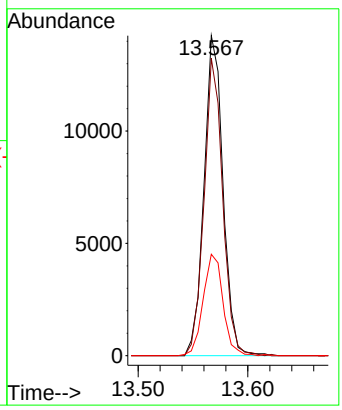




#93
1,2,4-Trichlorobenzene
Concen: 5.103 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 1716

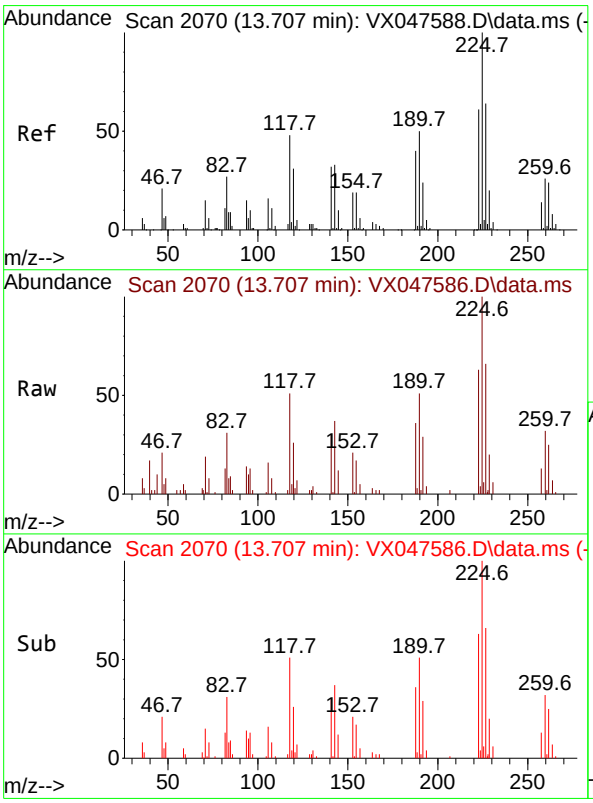
Ion	Ratio	Lower	Upper
180	100		
182	91.2	46.6	139.8
145	33.2	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

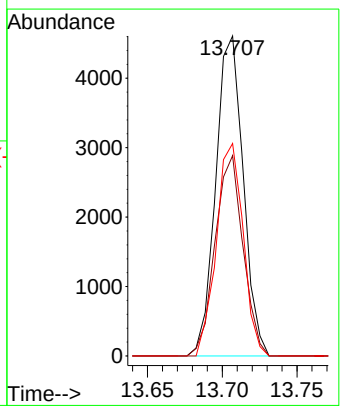
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

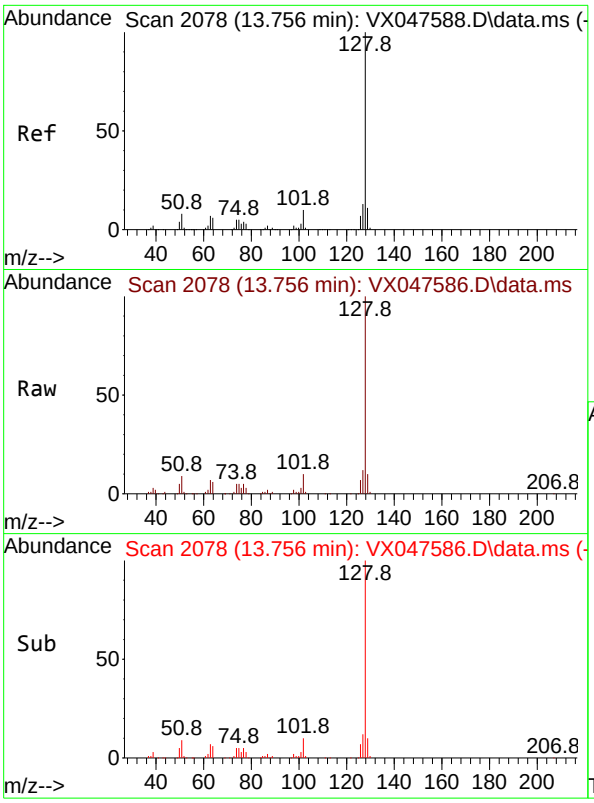


#94
Hexachlorobutadiene
Concen: 5.158 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:225 Resp: 5894

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.7	95.1
227	64.7	32.0	96.0

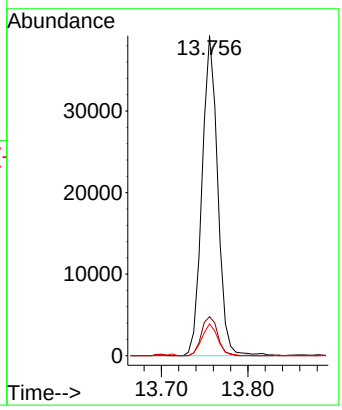




#95
Naphthalene
Concen: 4.808 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:128 Resp: 4925

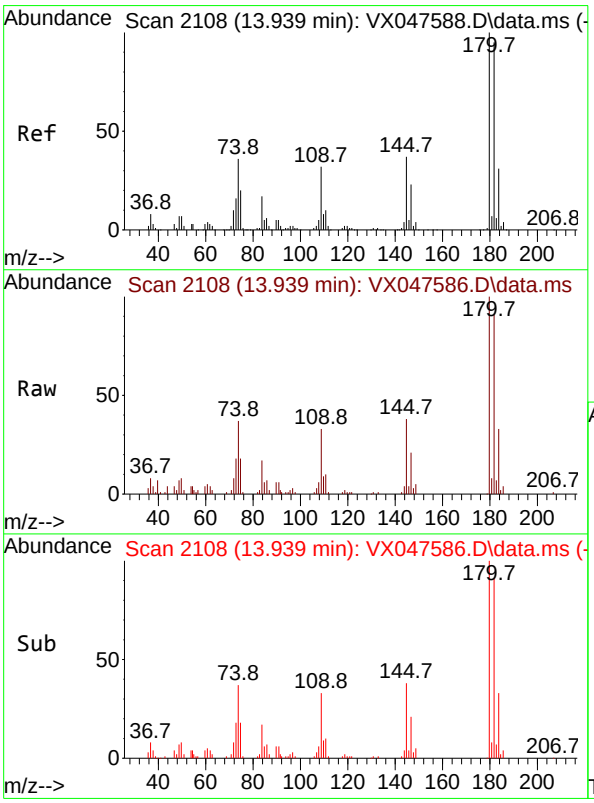
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.1	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

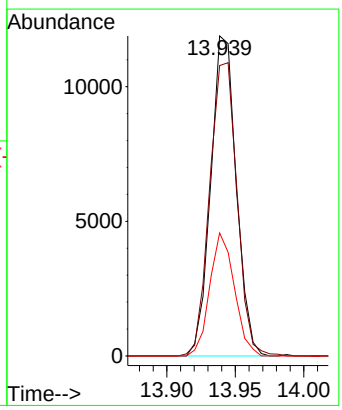
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.921 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:180 Resp: 15400

Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.6	142.8
145	37.1	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 32.520%#			
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 31.740%#			
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 32.520%#			
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 32.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l		99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l		99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l		100
44) Trichloroethene	7.110	130	51369	21.228	ug/l		97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l		97
46) Dibromomethane	7.568	93	38910	20.862	ug/l		99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l		98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l		98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l		95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l		100
52) Toluene	8.708	92	129193	20.950	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l		99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l		98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l		99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l		100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l		99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l		99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l		99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l		95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l		99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l		98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l		100
69) o-Xylene	10.628	106	87651	20.799	ug/l		98
70) Styrene	10.640	104	154077	20.866	ug/l		99
71) Bromoform	10.780	173	35922	20.550	ug/l	#	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l		99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l		99
76) 1,2,3-Trichloropropane	11.225	75	60797m	20.680	ug/l		
77) Bromobenzene	11.183	156	56161	21.183	ug/l		99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l		100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l		96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l		100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l		100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l		98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l		100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l		99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l		99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l		98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l		96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l		98
95) Naphthalene	13.756	128	193134	20.801	ug/l		99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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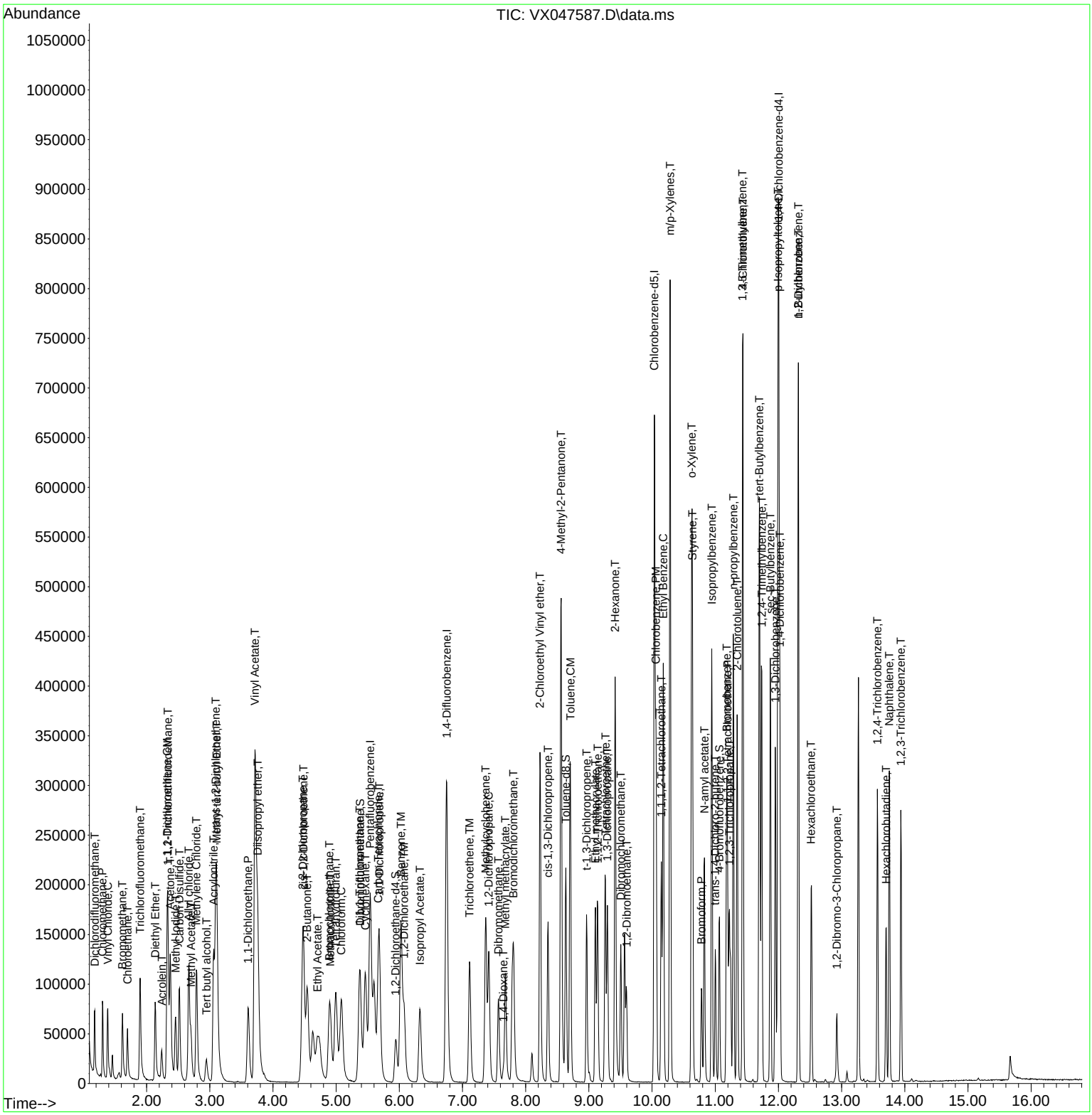
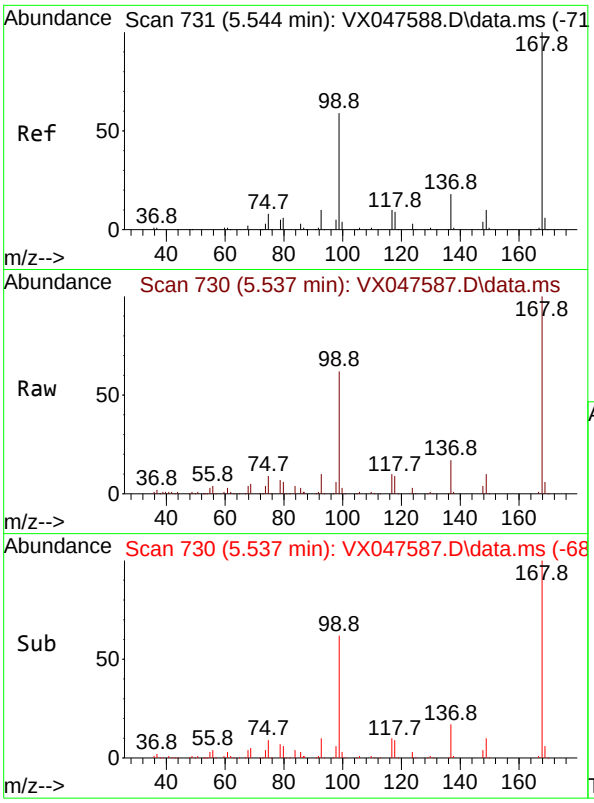
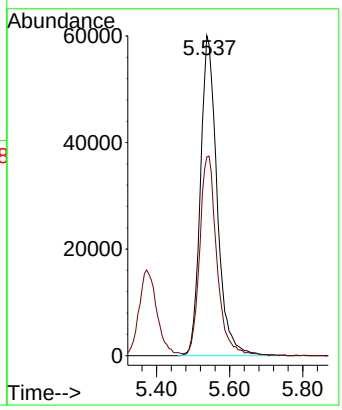




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:168 Resp: 18955

Ion	Ratio	Lower	Upper
168	100		
99	61.9	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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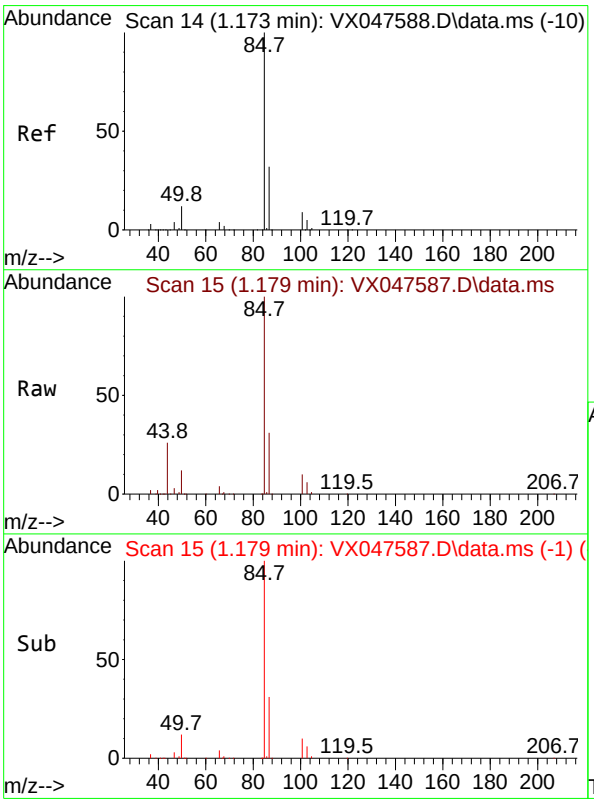
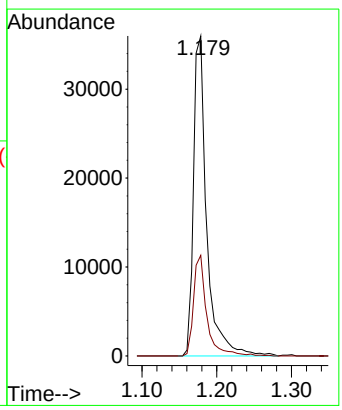
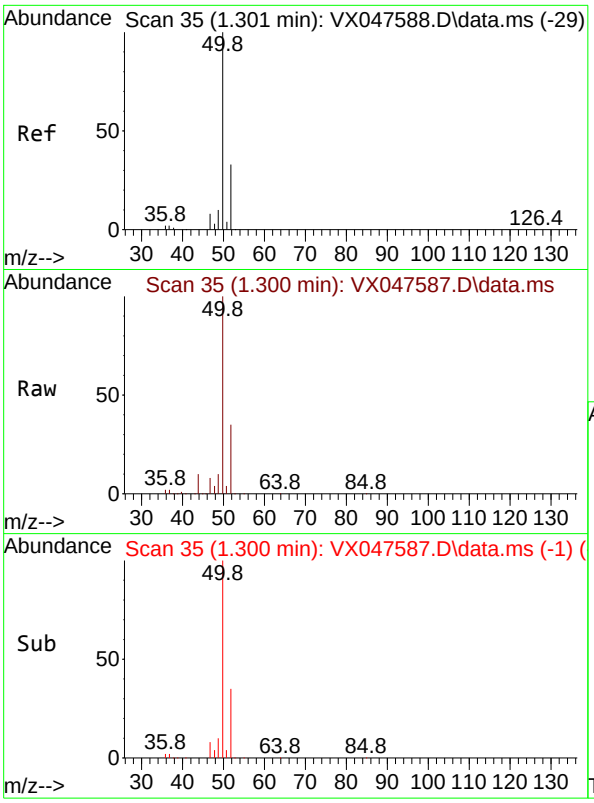


#2
Dichlorodifluoromethane
Concen: 22.480 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 85 Resp: 44126

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

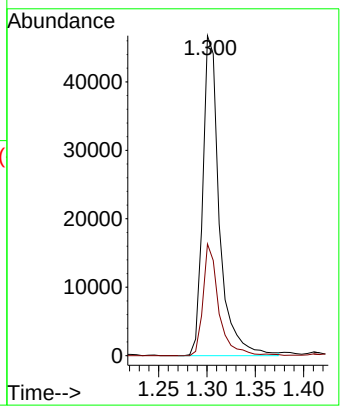




#3
Chloromethane
Concen: 21.716 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 50 Resp: 5602

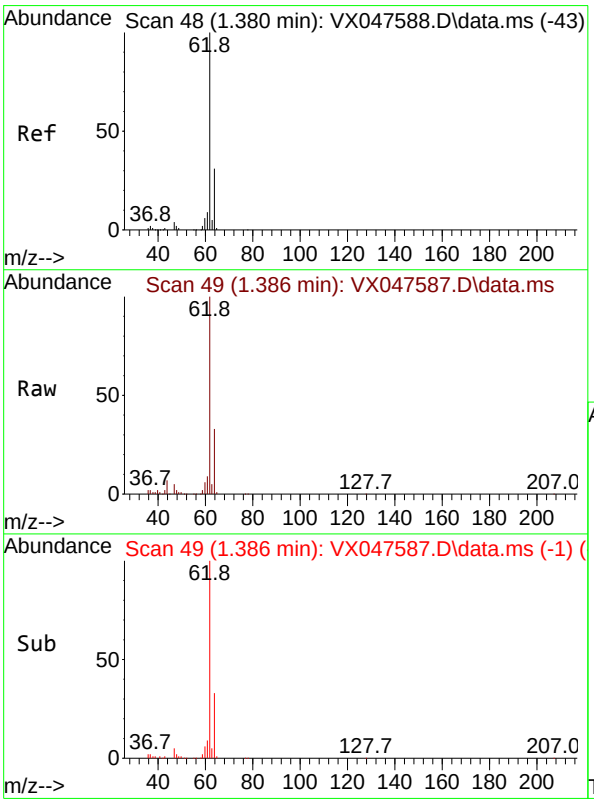
Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

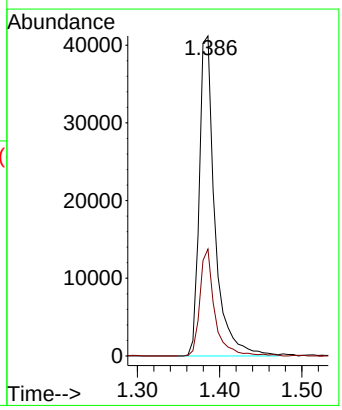
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

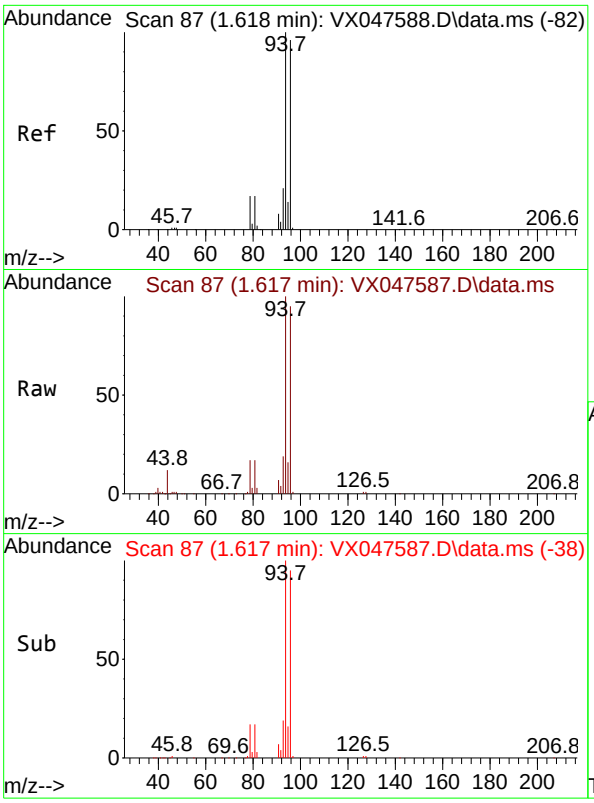


#4
Vinyl Chloride
Concen: 21.485 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 54256

Ion	Ratio	Lower	Upper
62	100		
64	33.4	24.9	37.3

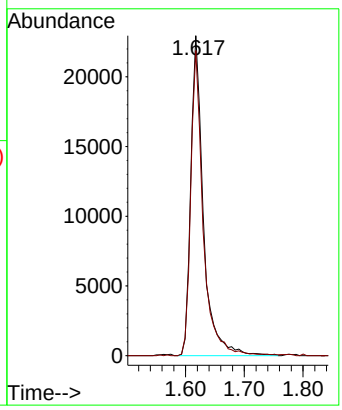




#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 94 Resp: 3419

Ion	Ratio	Lower	Upper
94	100		
96	95.3	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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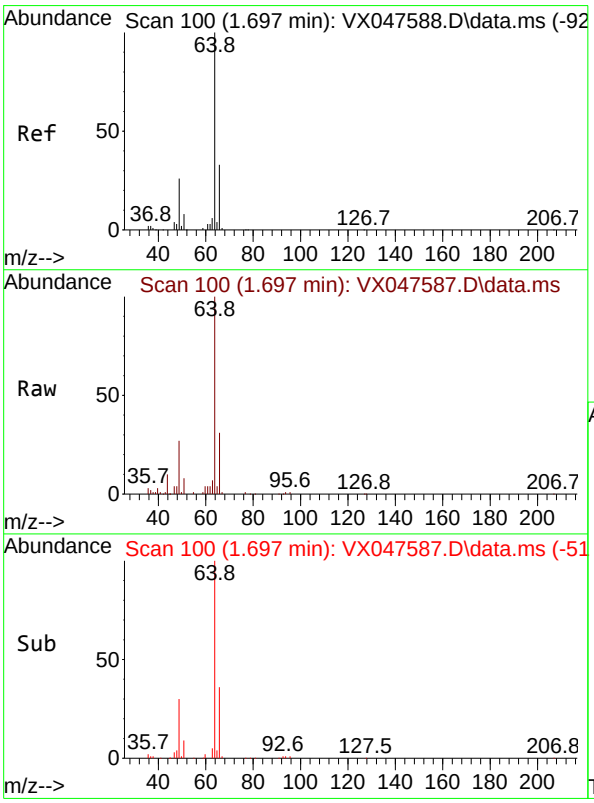
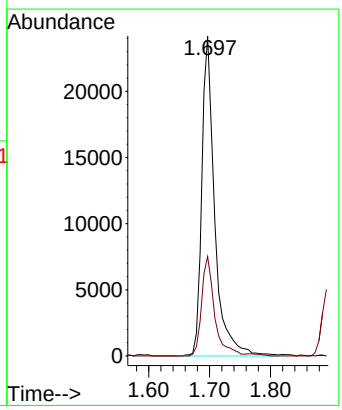
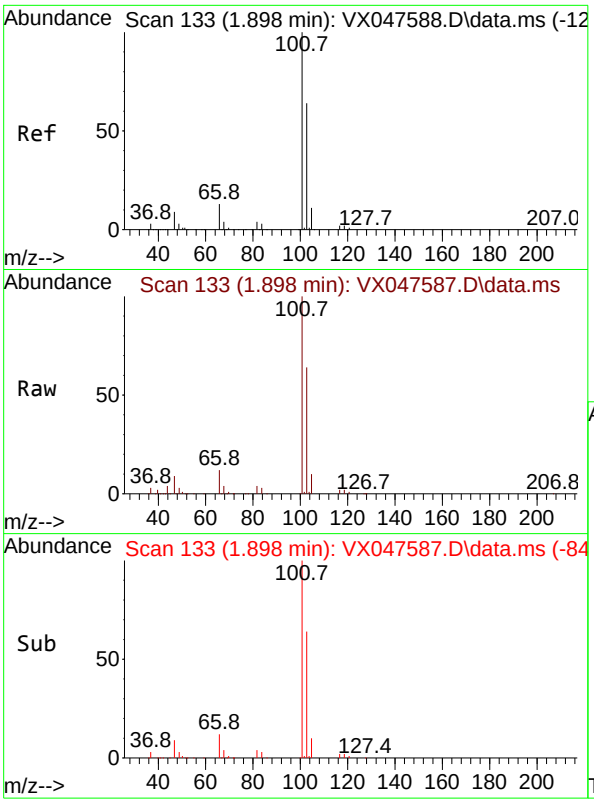


#6
Chloroethane
Concen: 21.063 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 64 Resp: 35551

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.1	39.1

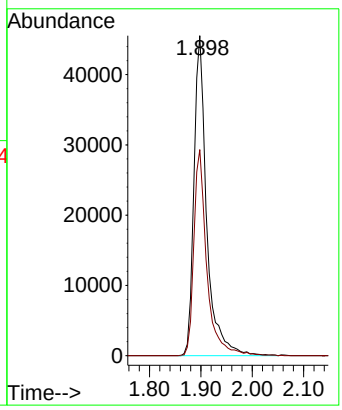




#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:101 Resp: 7866

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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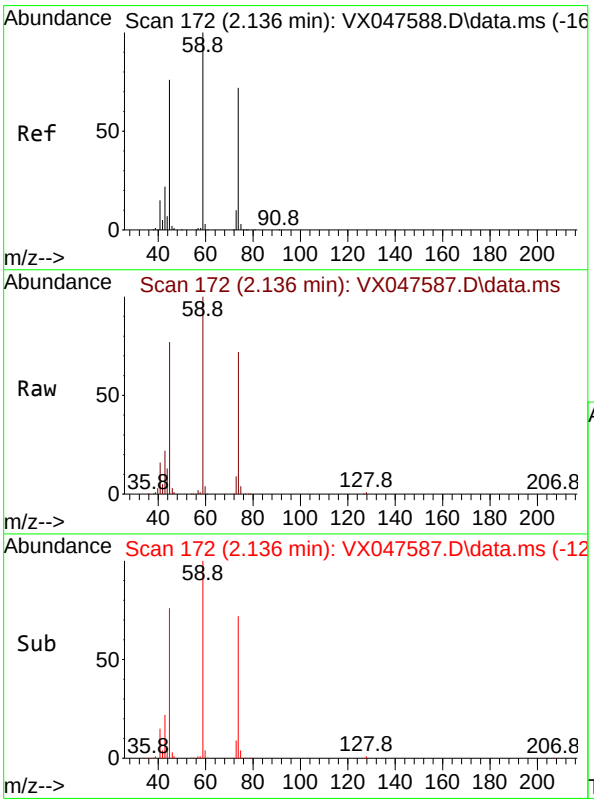
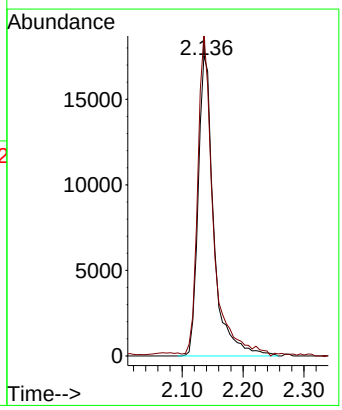
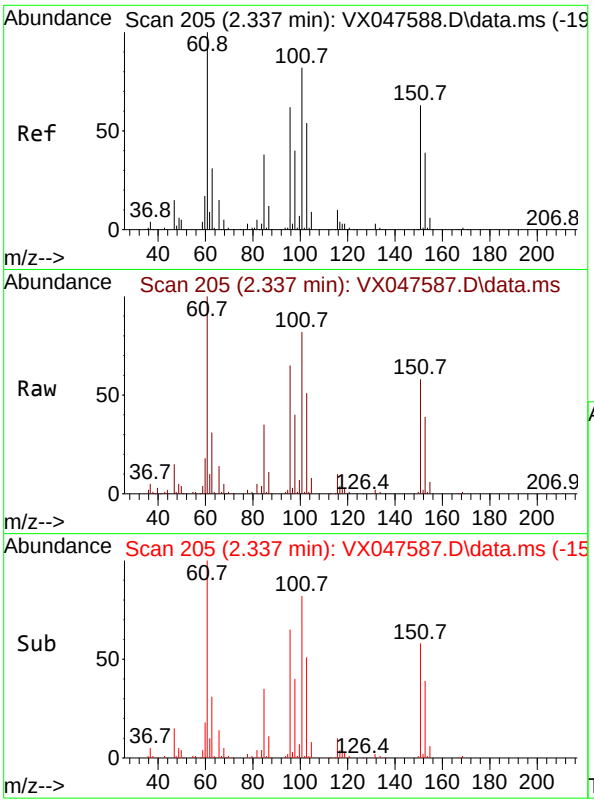


#8
Diethyl Ether
Concen: 20.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 74 Resp: 31335

Ion	Ratio	Lower	Upper
74	100		
45	107.0	52.3	156.8

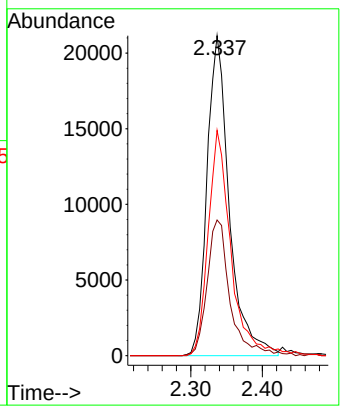




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.859 ug/l
RT: 2.337 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:101 Resp: 4573

Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	72.1	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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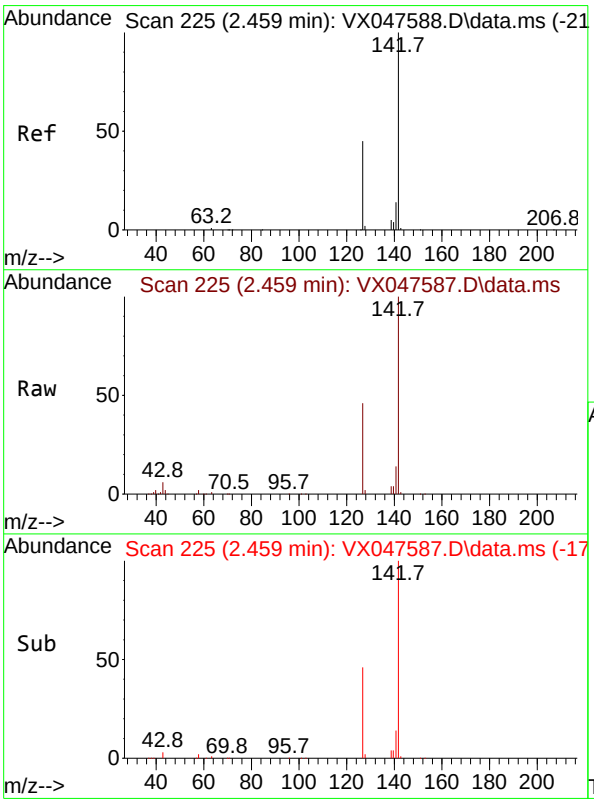
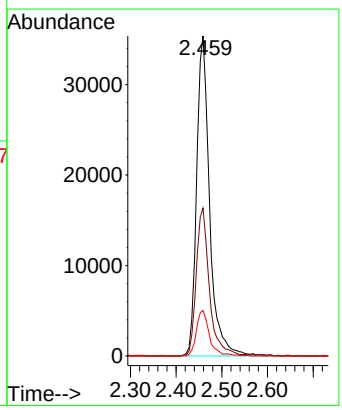
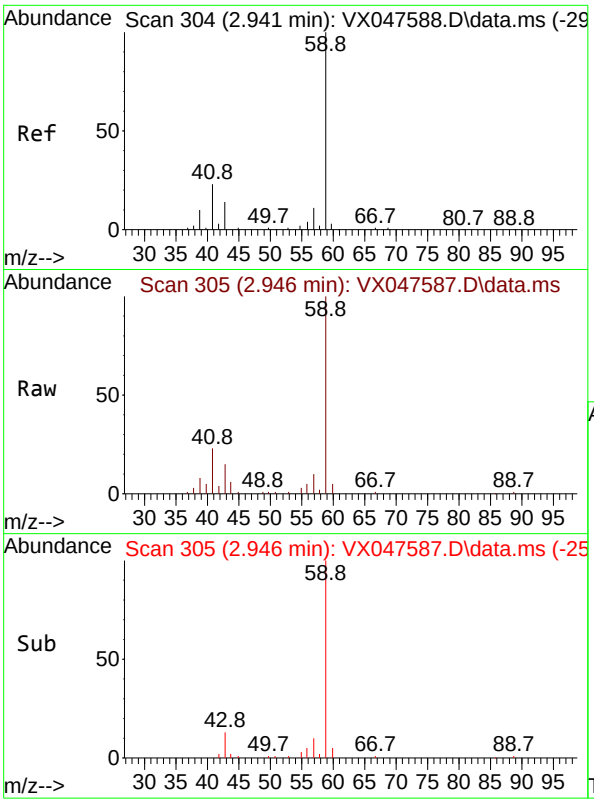


#10
Methyl Iodide
Concen: 20.452 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:142 Resp: 69935

Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.3	11.4	17.0

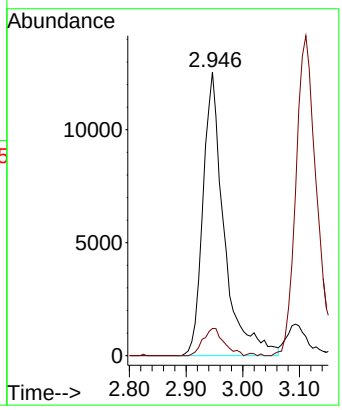




#11
Tert butyl alcohol
Concen: 96.582 ug/l
RT: 2.946 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 59 Resp: 3245

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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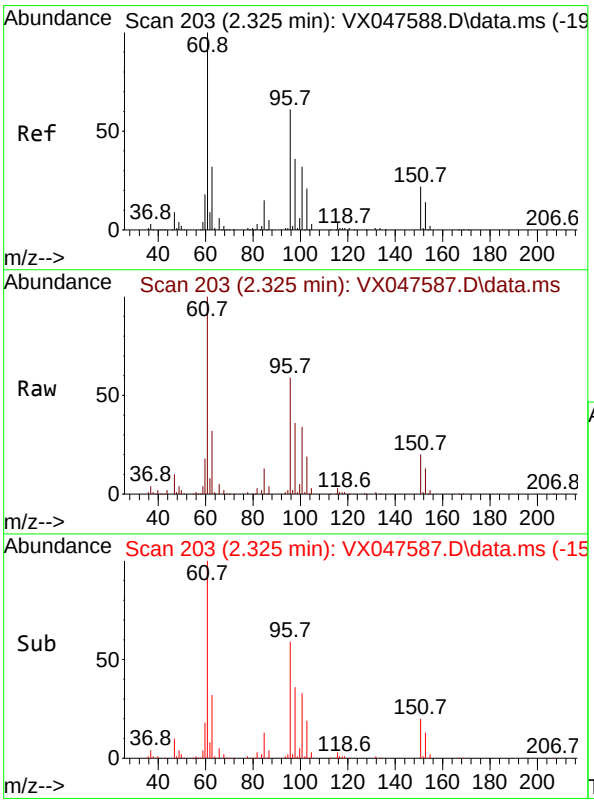
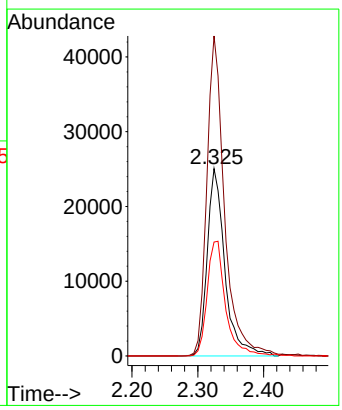
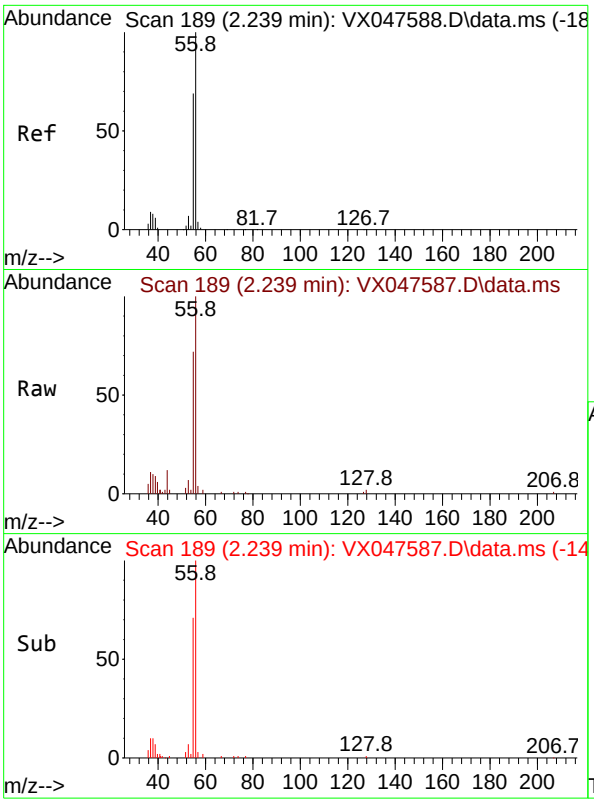


#12
1,1-Dichloroethene
Concen: 20.808 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 46863

Ion	Ratio	Lower	Upper
96	100		
61	170.7	131.0	196.6
98	60.8	47.7	71.5

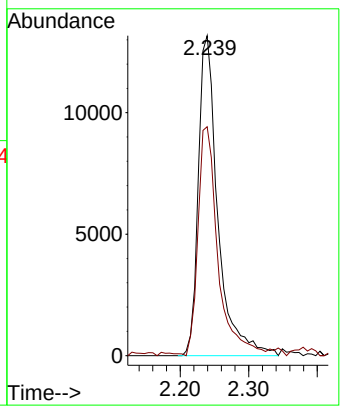




#13
Acrolein
Concen: 84.473 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 56 Resp: 2615

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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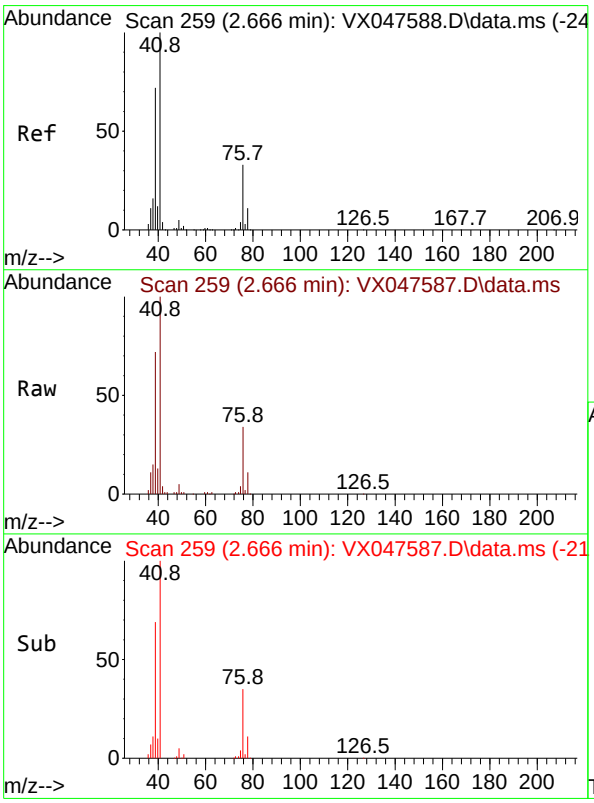
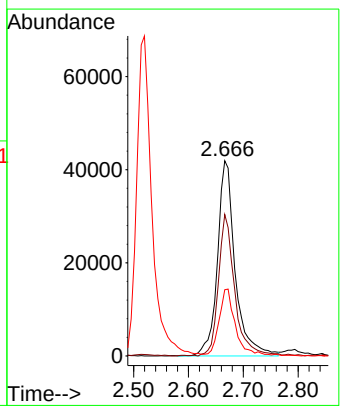
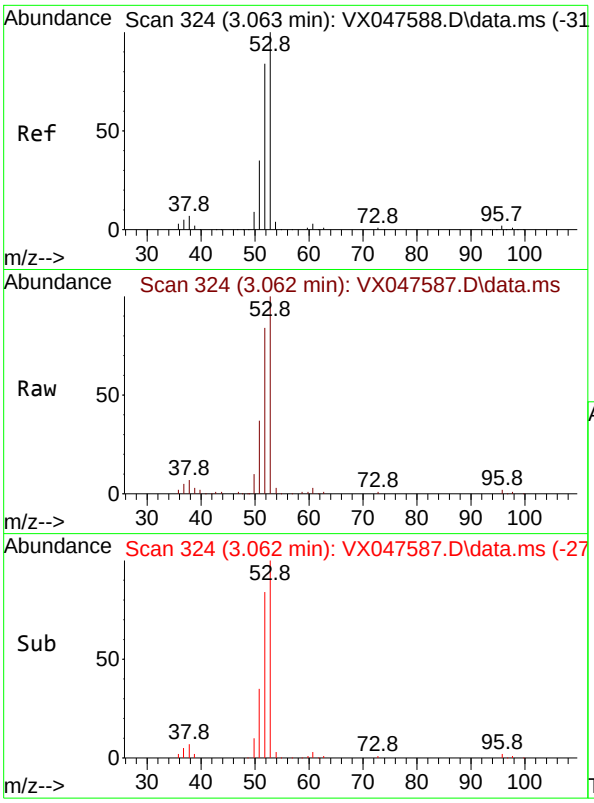


#14
Allyl chloride
Concen: 20.379 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 94710

Ion	Ratio	Lower	Upper
41	100		
39	65.5	54.7	82.1
76	30.3	25.7	38.5

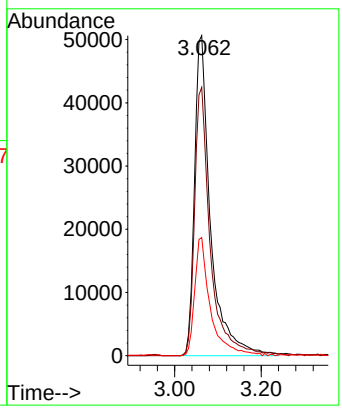




#15
Acrylonitrile
Concen: 104.554 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 53 Resp: 13014

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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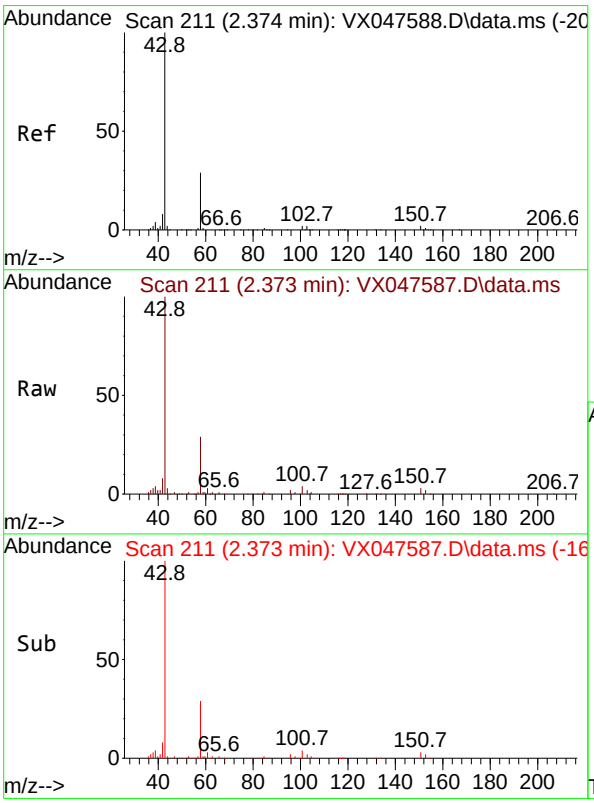
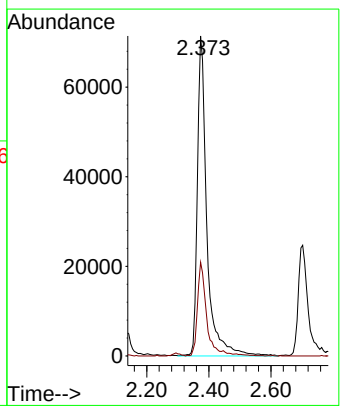
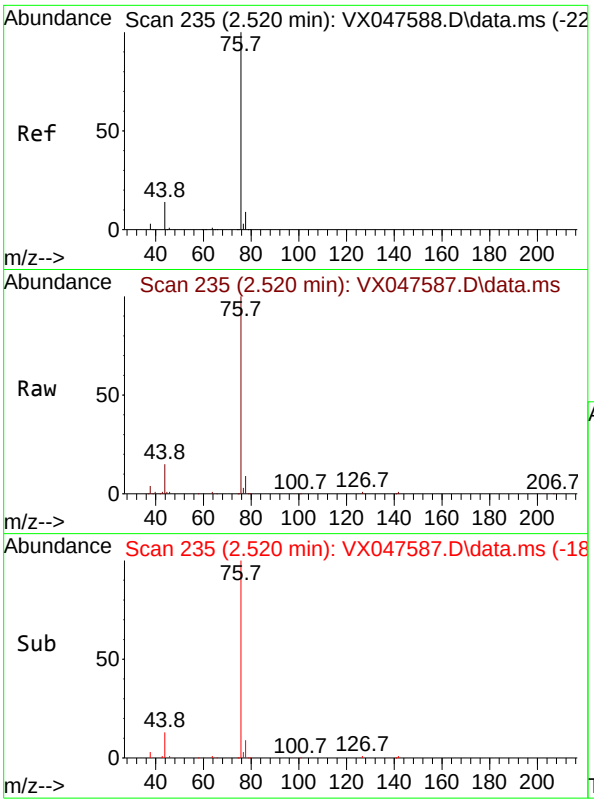


#16
Acetone
Concen: 115.507 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 151538

Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.4	35.0

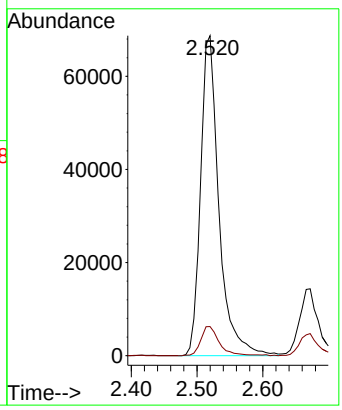




#17
Carbon Disulfide
Concen: 21.620 ug/l
RT: 2.520 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 76 Resp: 13329

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
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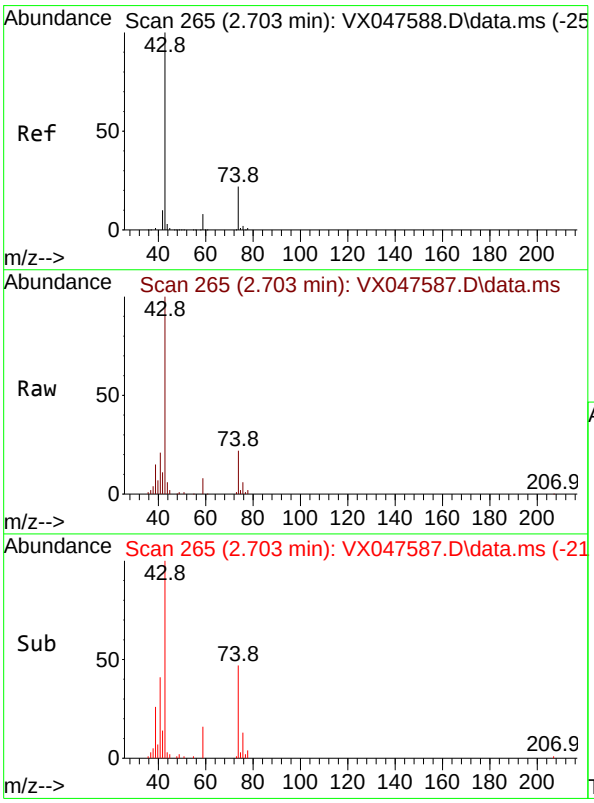
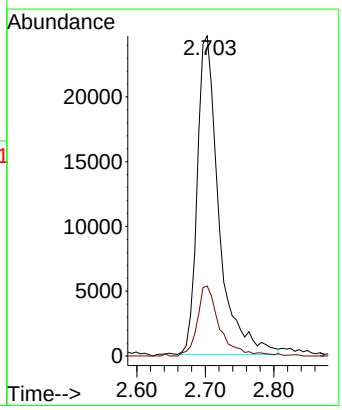
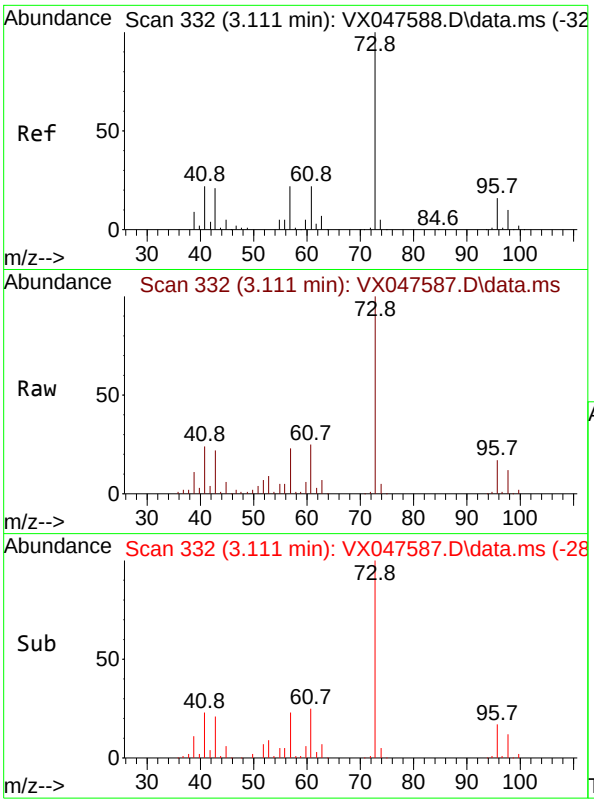


#18
Methyl Acetate
Concen: 18.536 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 54120

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2

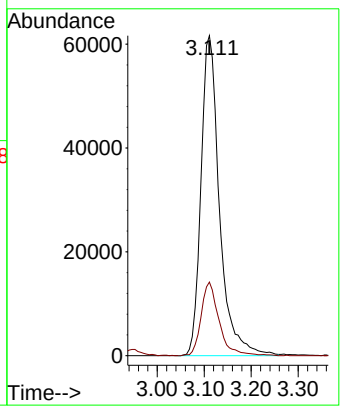




#19
Methyl tert-butyl Ether
Concen: 20.486 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 73 Resp: 16842

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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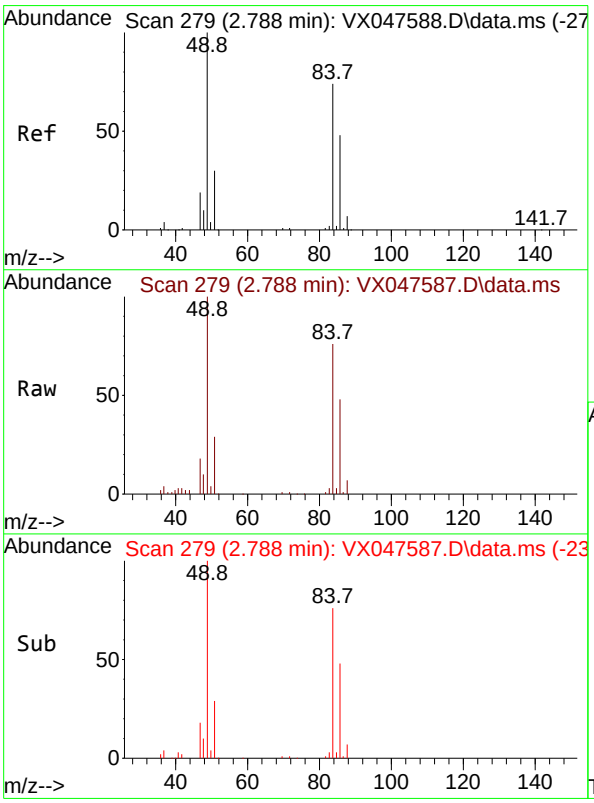
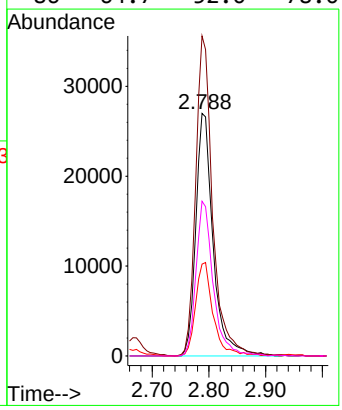
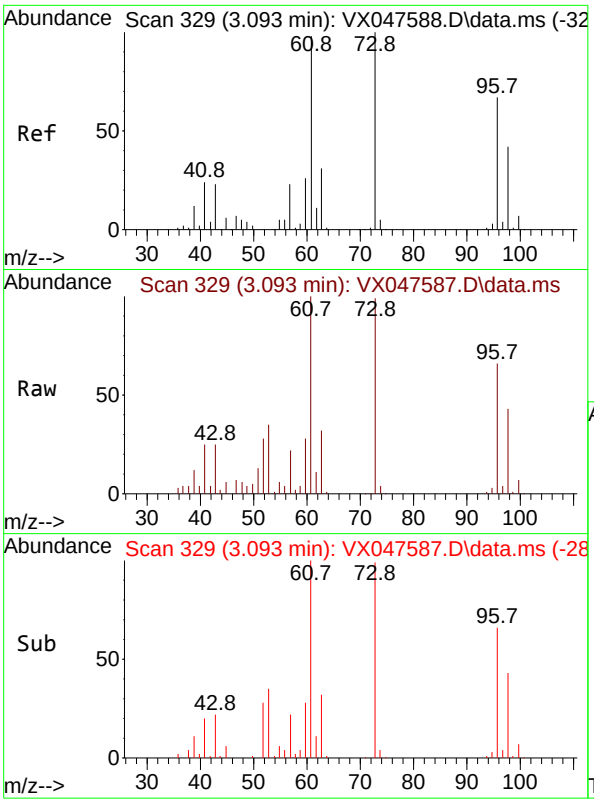


#20
Methylene Chloride
Concen: 20.581 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 84 Resp: 57153

Ion	Ratio	Lower	Upper
84	100		
49	131.7	108.6	162.8
51	37.9	32.6	48.8
86	64.7	52.0	78.0

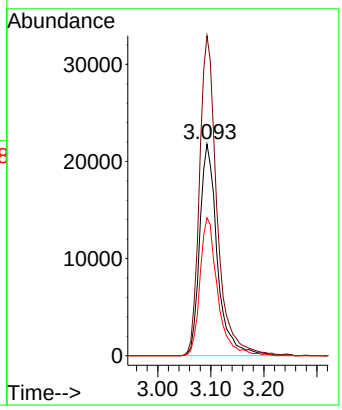




#21
trans-1,2-Dichloroethene
Concen: 20.791 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 5041

Ion	Ratio	Lower	Upper
96	100		
61	151.3	116.2	174.2
98	67.2	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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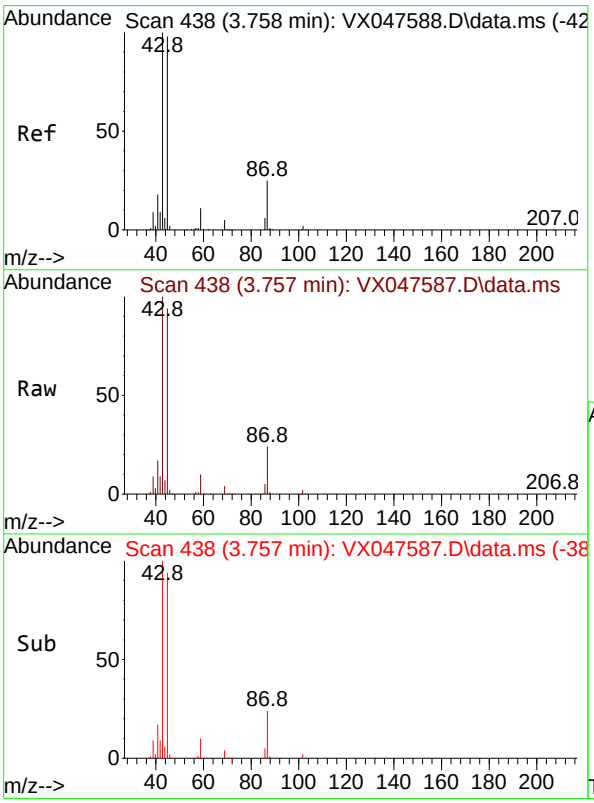
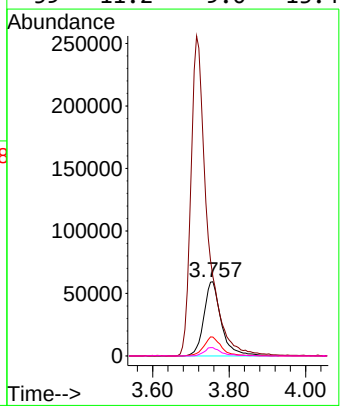
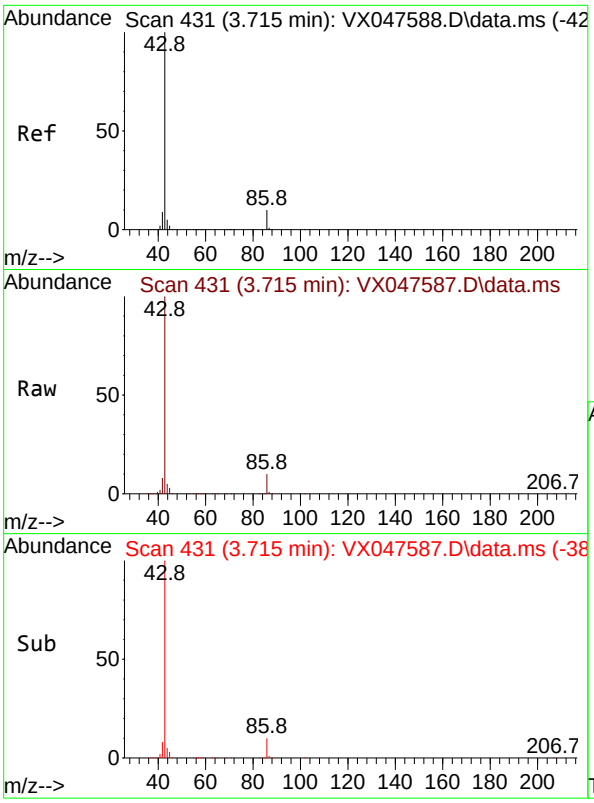


#22
Diisopropyl ether
Concen: 20.940 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 45 Resp: 188598

Ion	Ratio	Lower	Upper
45	100		
43	106.1	81.0	121.4
87	25.5	20.3	30.5
59	11.2	9.0	13.4





#23
Vinyl Acetate
Concen: 106.218 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 76567

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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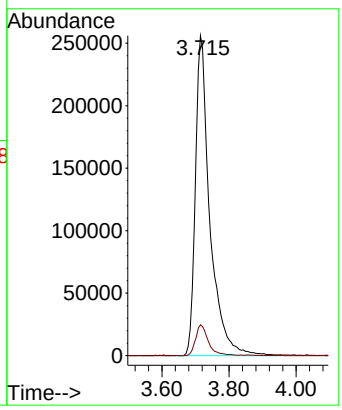
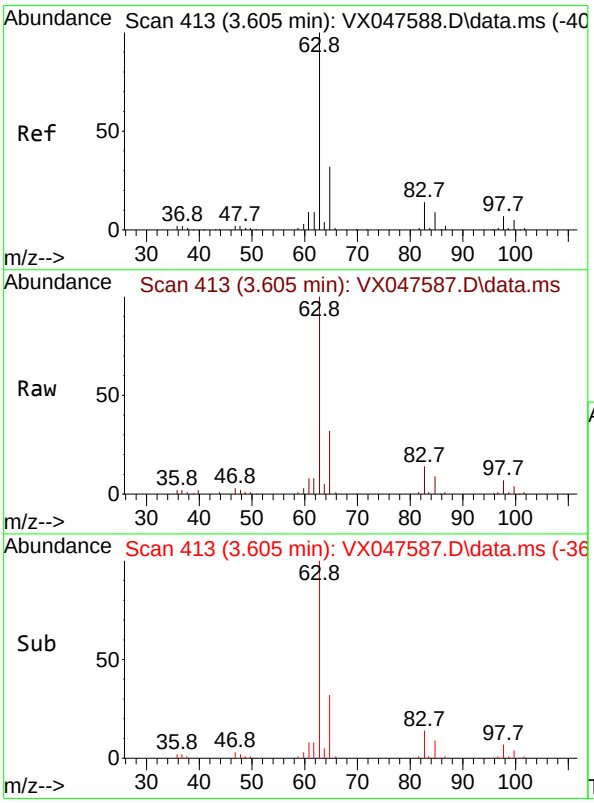
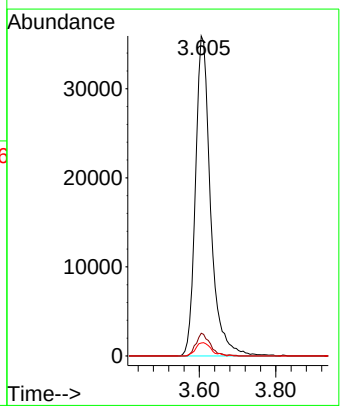


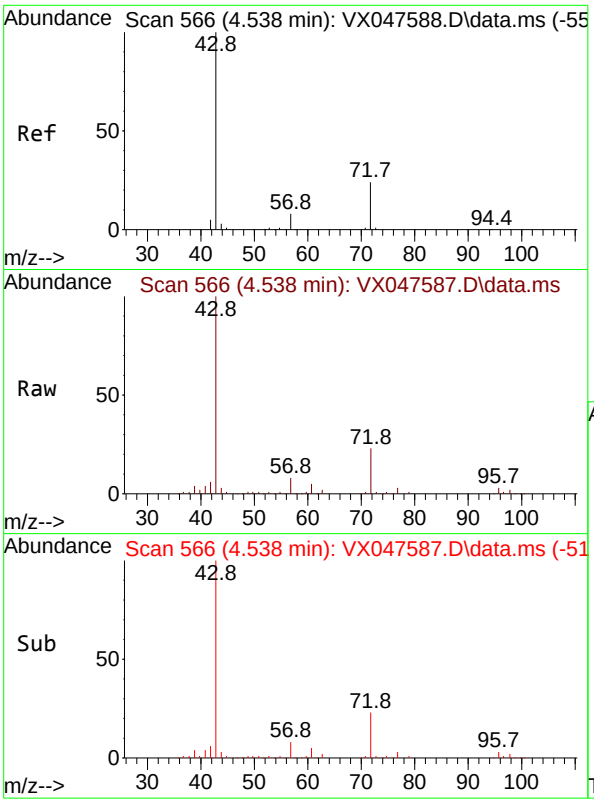


#24
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 98509

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.8	11.2
100	4.1	2.3	6.9





#25
2-Butanone
Concen: 109.679 ug/l
RT: 4.538 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 17948

Ion	Ratio	Lower	Upper
43	100		
72	22.3	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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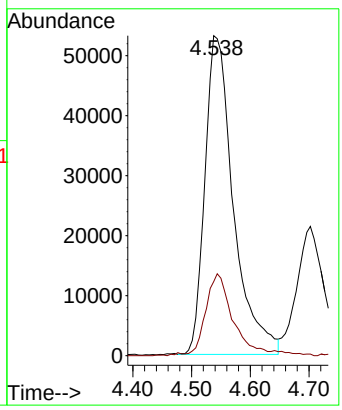
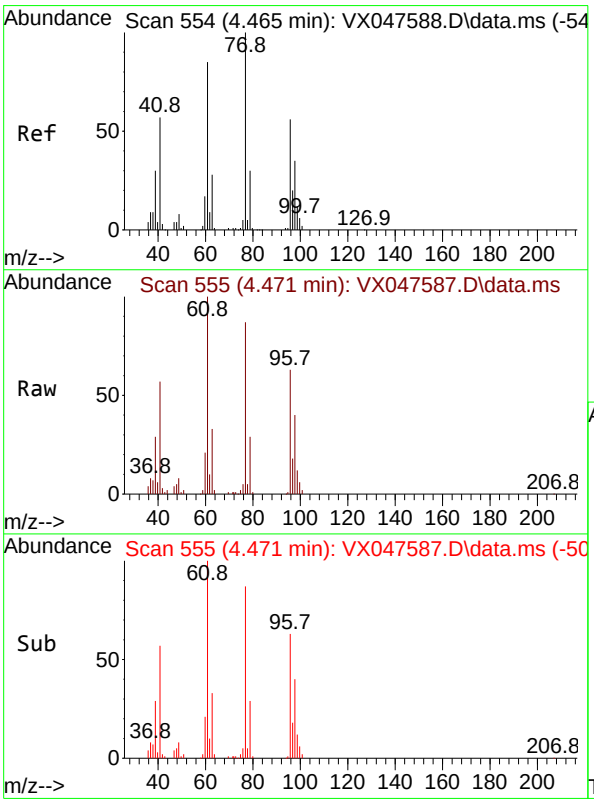
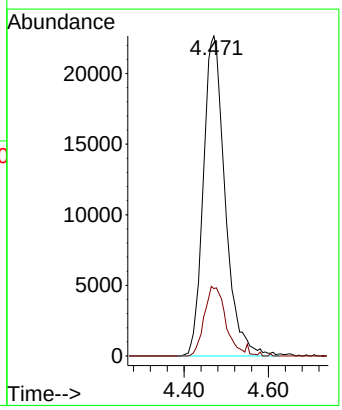


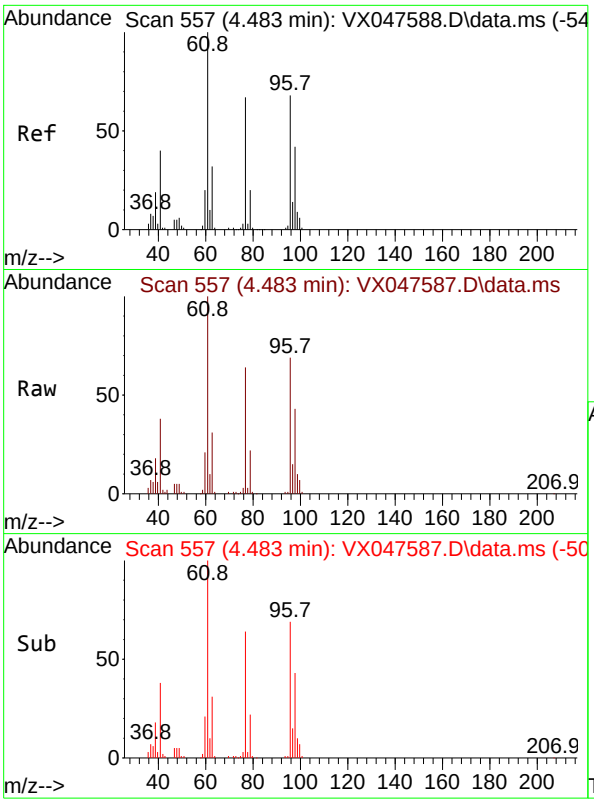


#26
2,2-Dichloropropane
Concen: 20.459 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 77 Resp: 81413

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.9	32.7

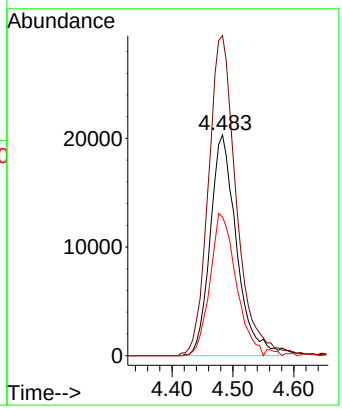




#27
cis-1,2-Dichloroethene
Concen: 20.497 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 96 Resp: 6086

Ion	Ratio	Lower	Upper
96	100		
61	154.8	0.0	303.2
98	63.7	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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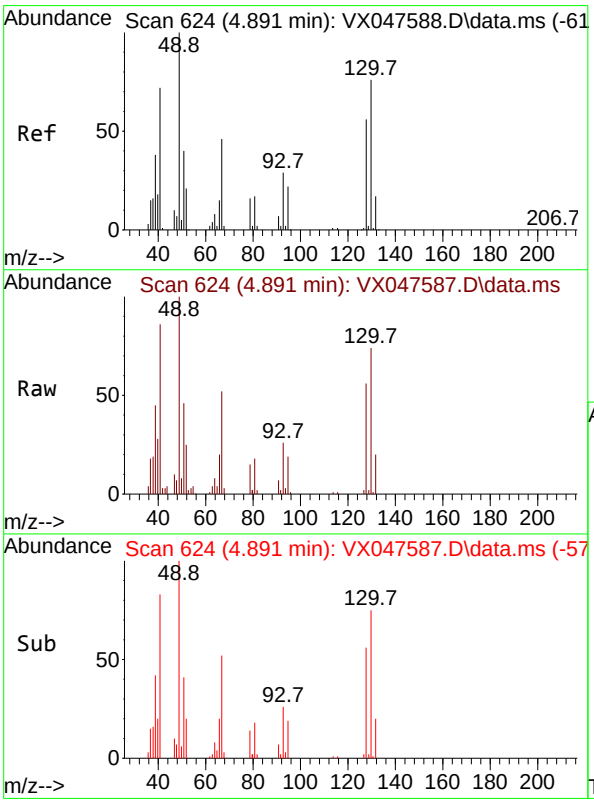
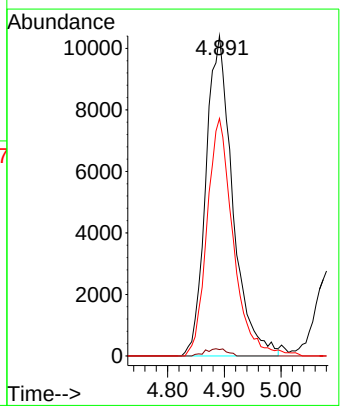
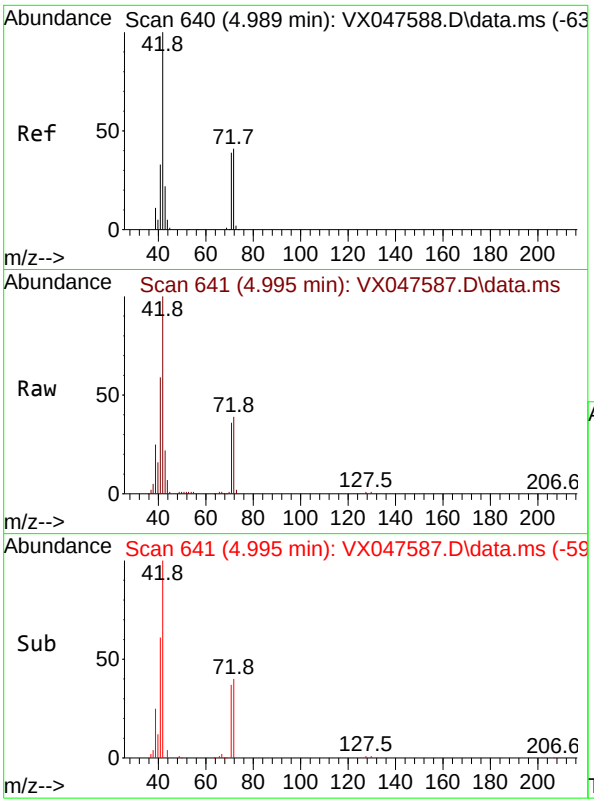


#28
Bromochloromethane
Concen: 16.309 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 49 Resp: 34085

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.7	57.8	86.8





#29
Tetrahydrofuran
Concen: 104.560 ug/l
RT: 4.995 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 42 Resp: 10293

Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.2	51.2
71	37.8	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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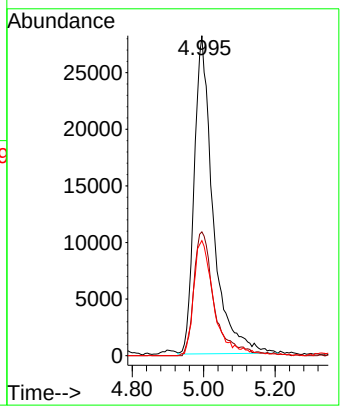
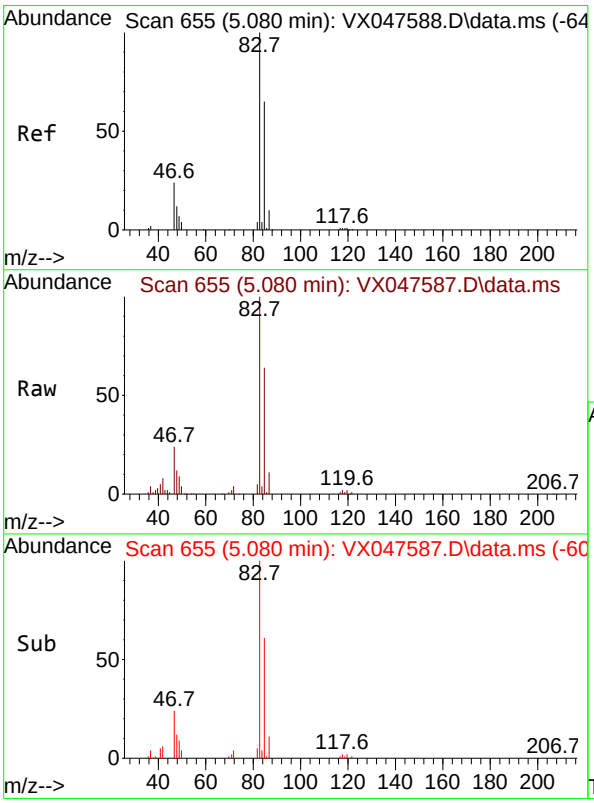
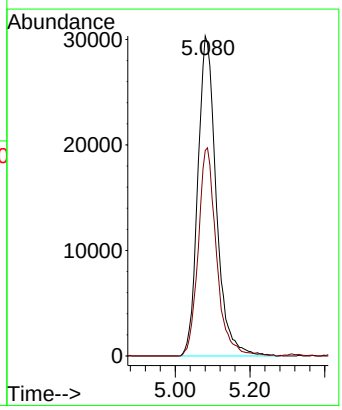


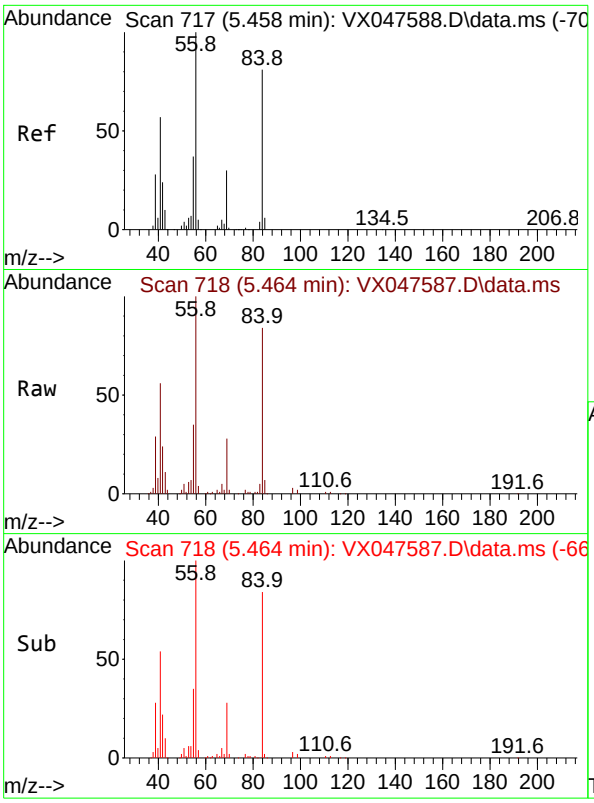


#30
Chloroform
Concen: 21.413 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 103586

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6

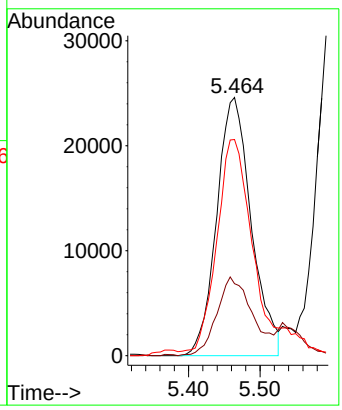




#31
Cyclohexane
Concen: 20.759 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 56 Resp: 8277

Ion	Ratio	Lower	Upper
56	100		
69	27.9	23.8	35.8
84	82.2	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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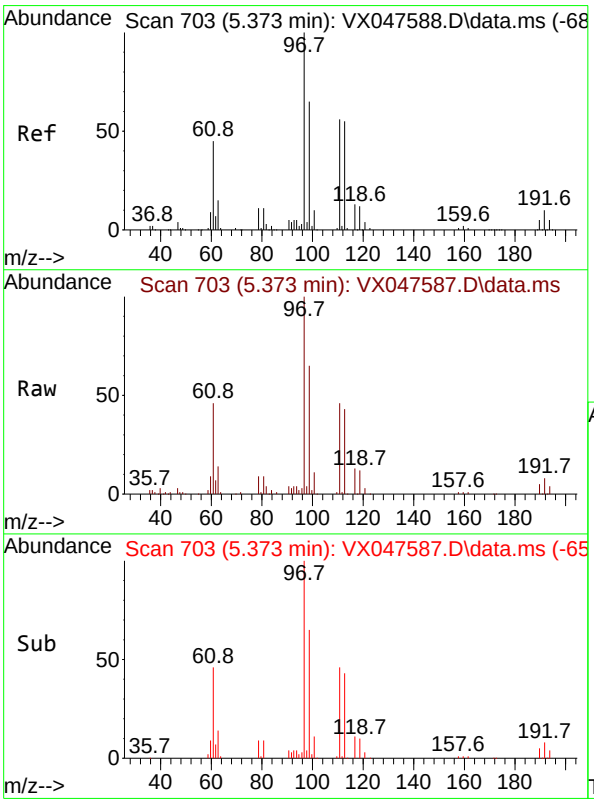
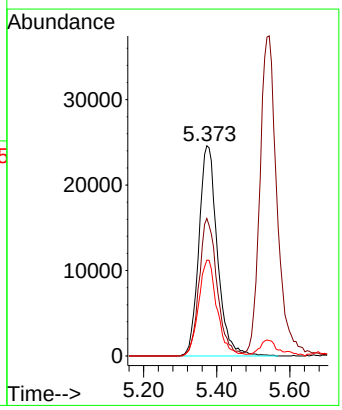
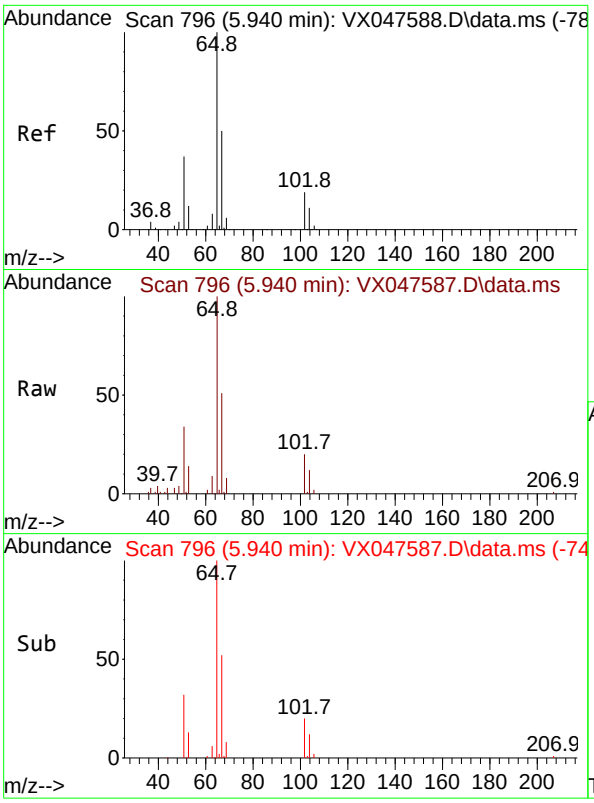


#32
1,1,1-Trichloroethane
Concen: 21.081 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 86500

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	45.5	35.8	53.8





#33
1,2-Dichloroethane-d4
Concen: 16.264 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 65 Resp: 4907

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	103.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 09/17/2025
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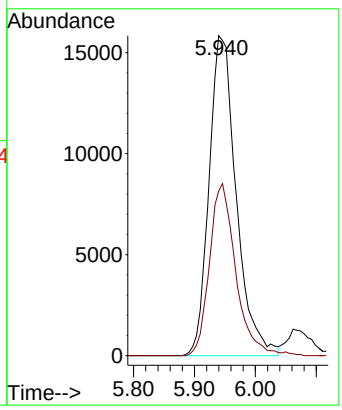
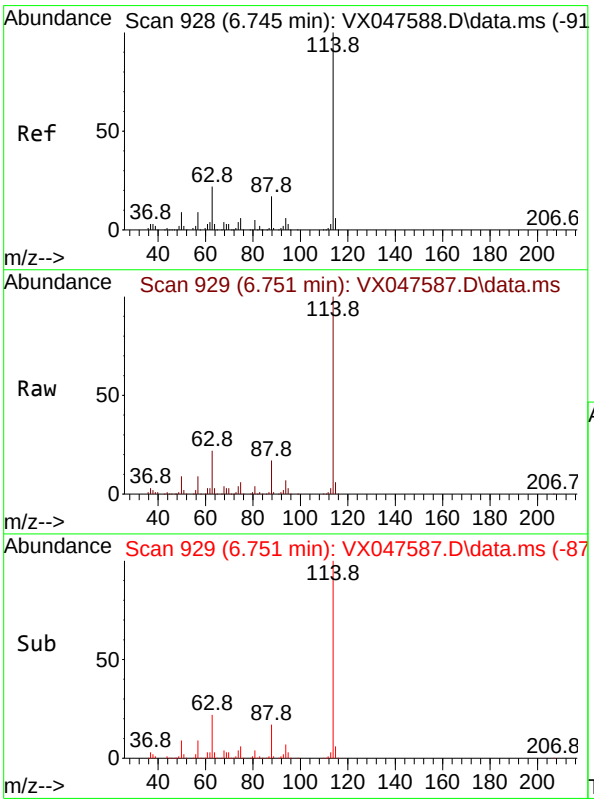
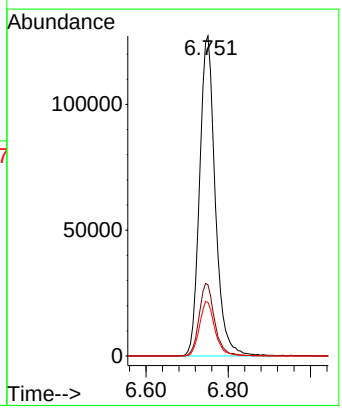


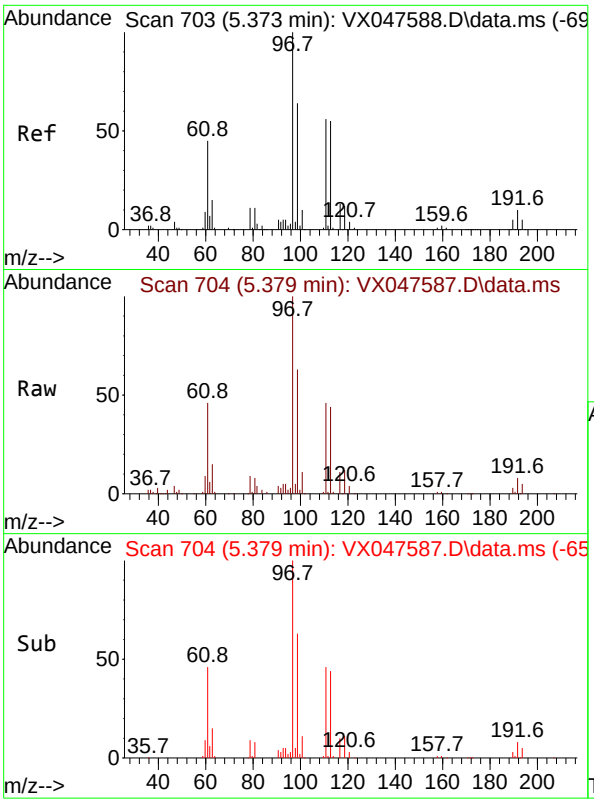


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:114 Resp: 336287

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

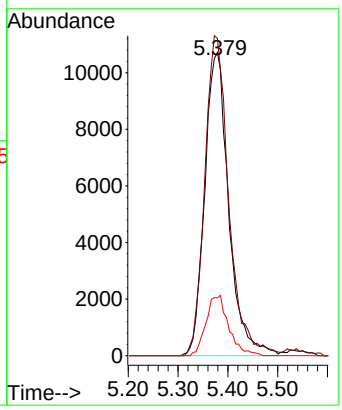




#35
Dibromofluoromethane
Concen: 15.868 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:113 Resp: 3578

Ion	Ratio	Lower	Upper
113	100		
111	105.7	80.9	121.3
192	18.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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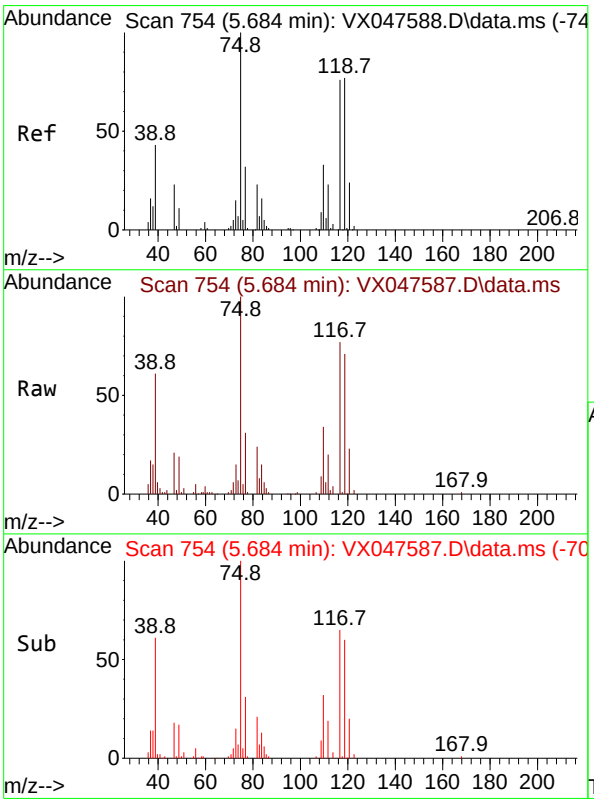
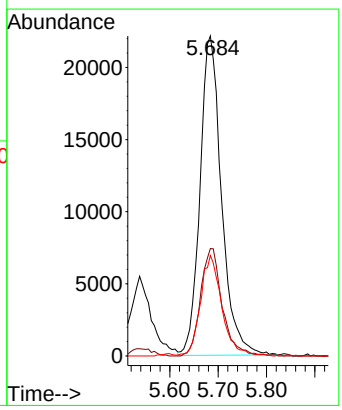
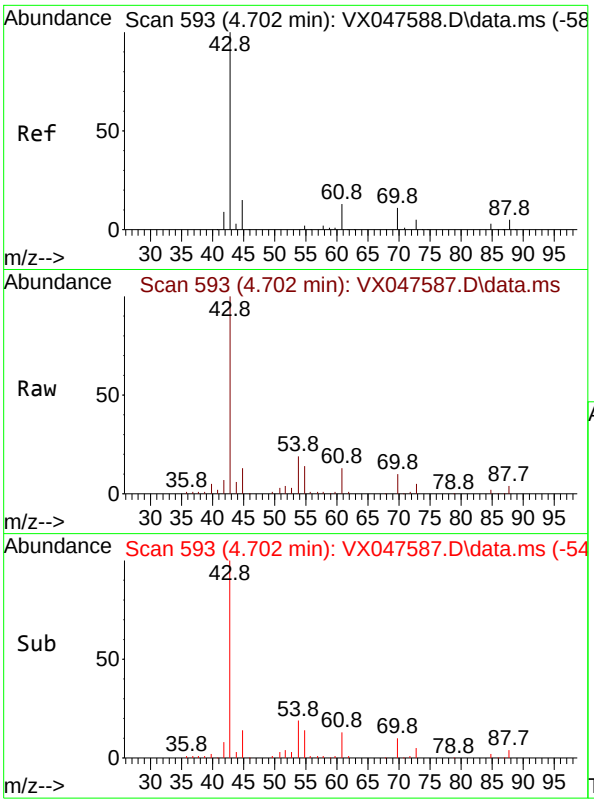


#36
1,1-Dichloropropene
Concen: 20.754 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 68395

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.2	24.3	36.5

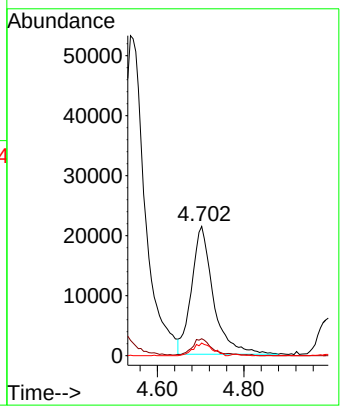




#37
Ethyl Acetate
Concen: 21.113 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 7449

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	8.5	7.9	11.9



Instrument :
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ClientSampleId :
VSTDICC020

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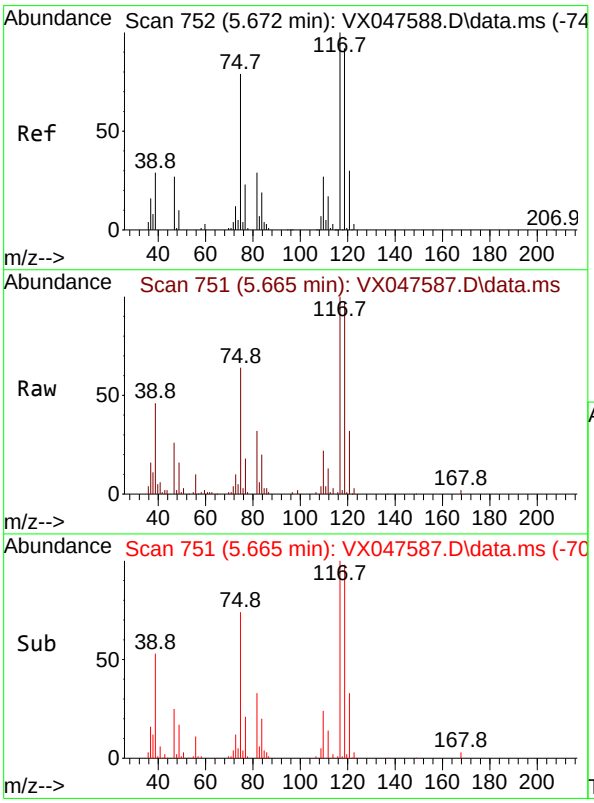
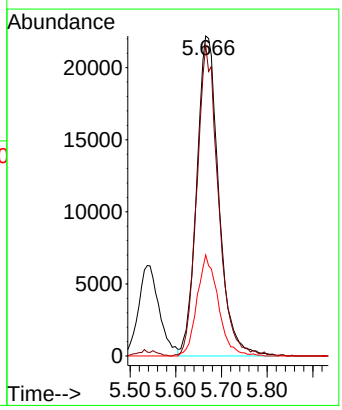
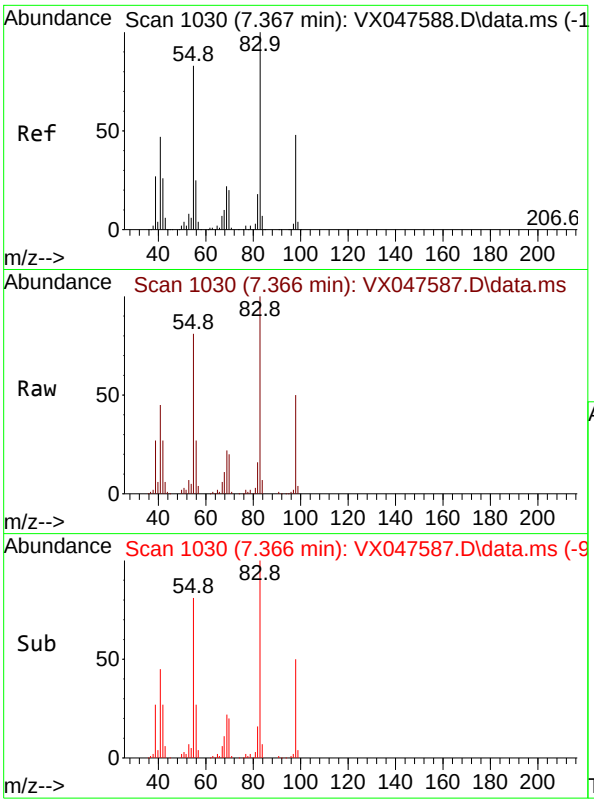


#38
Carbon Tetrachloride
Concen: 20.844 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 74636

Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.4	110.2
121	31.6	23.8	35.6

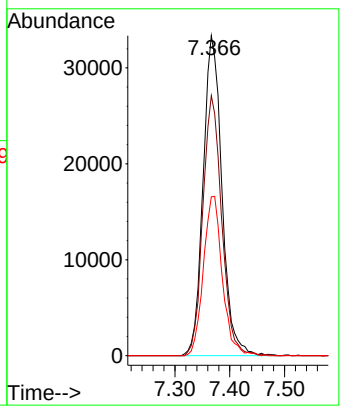




#39
Methylcyclohexane
Concen: 21.251 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 7949

Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.4	99.6
98	49.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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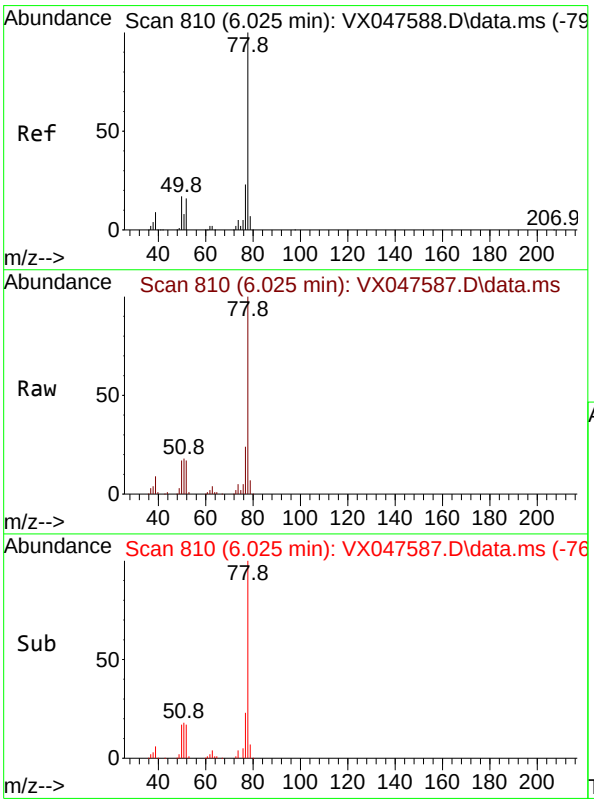
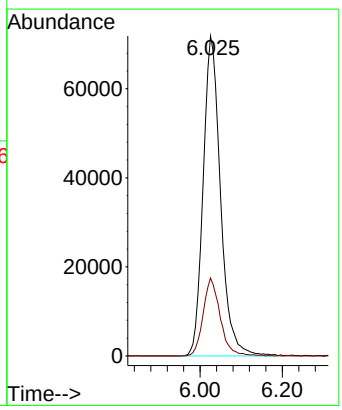
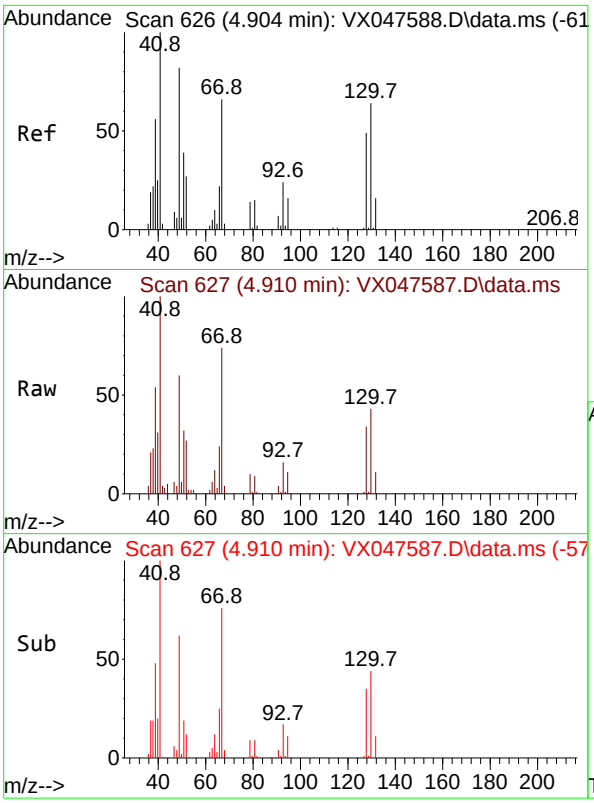


#40
Benzene
Concen: 21.051 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 78 Resp: 210711

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2

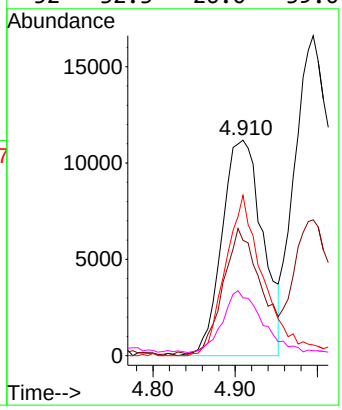




#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 3852

Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.3	64.9
67	72.5	58.6	87.8
52	32.3	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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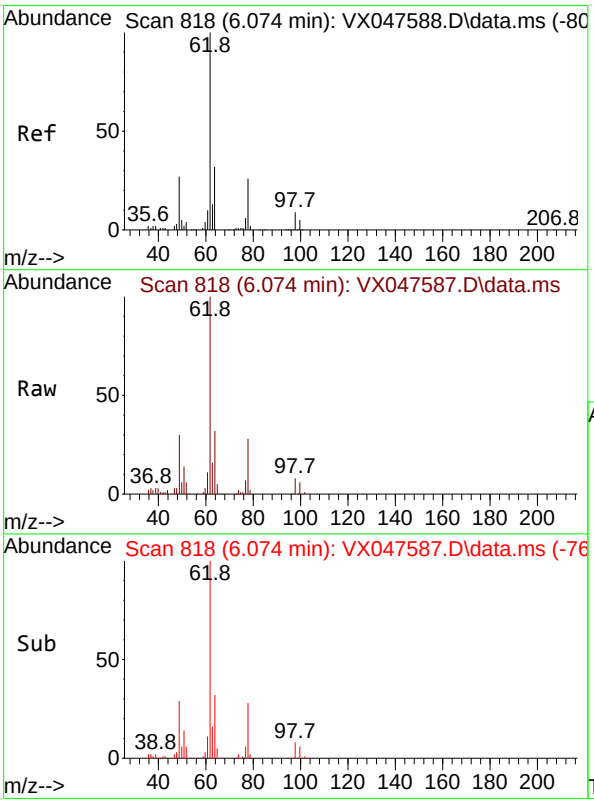
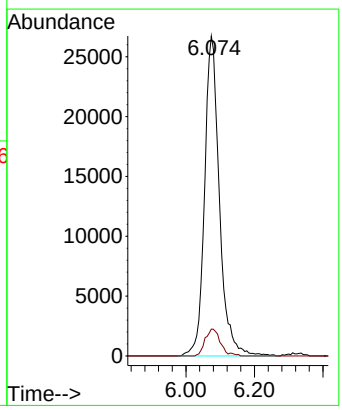
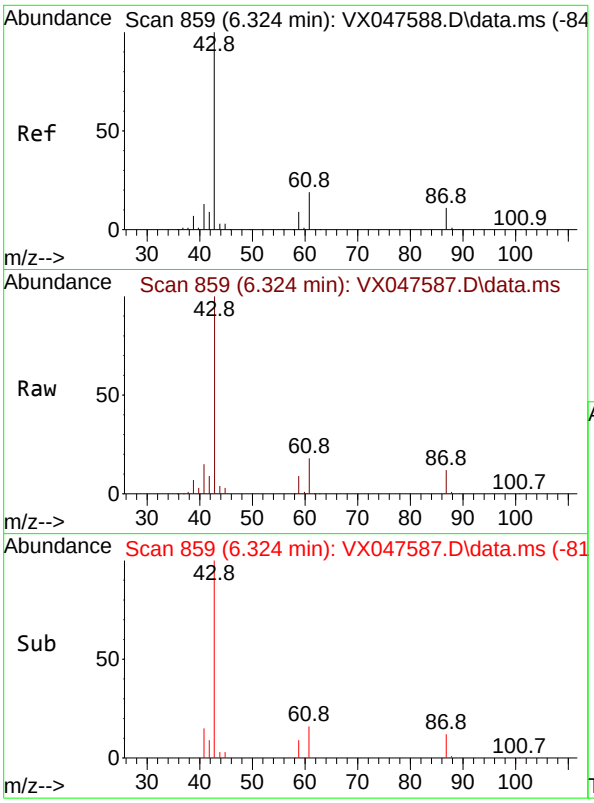


#42
1,2-Dichloroethane
Concen: 21.175 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 62 Resp: 80646

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

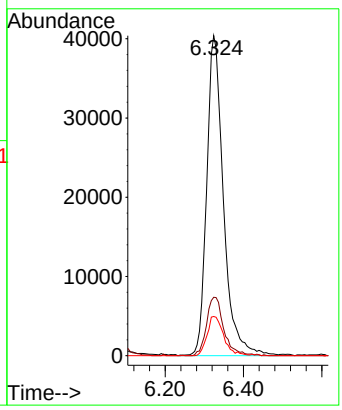




#43
Isopropyl Acetate
Concen: 20.670 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 11962

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.2	22.8
87	12.1	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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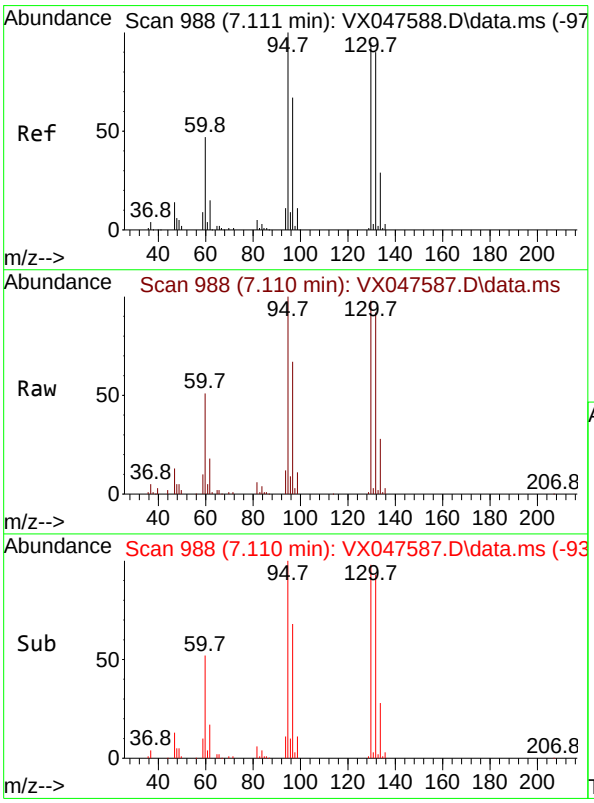
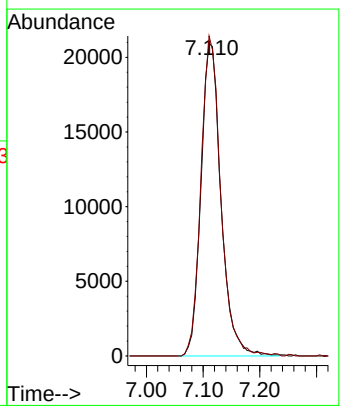
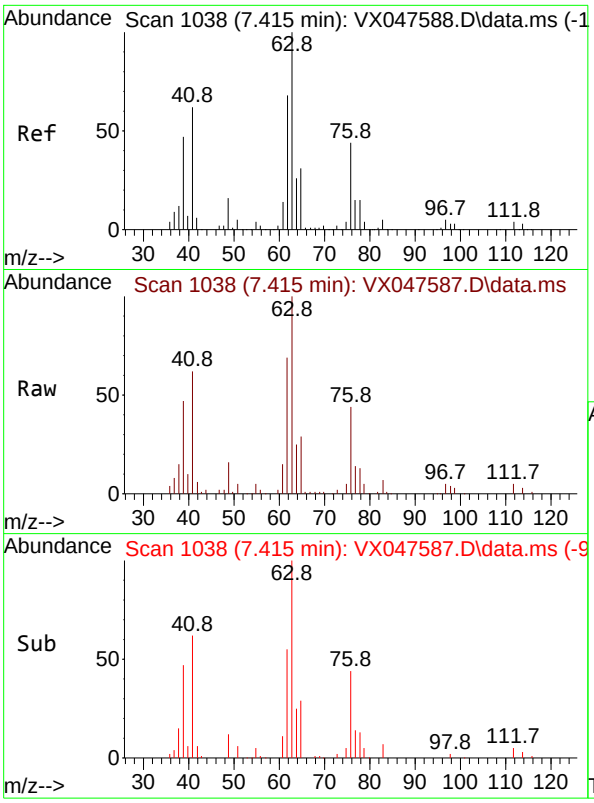


#44
Trichloroethene
Concen: 21.228 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:130 Resp: 51369

Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	210.8

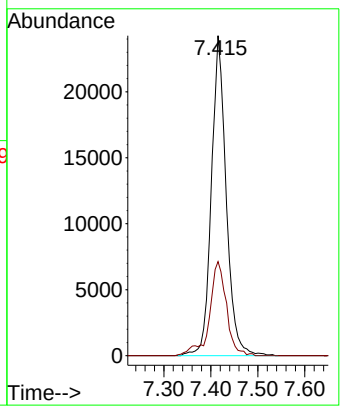




#45
1,2-Dichloropropane
Concen: 20.697 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 5304

Ion	Ratio	Lower	Upper
63	100		
65	29.4	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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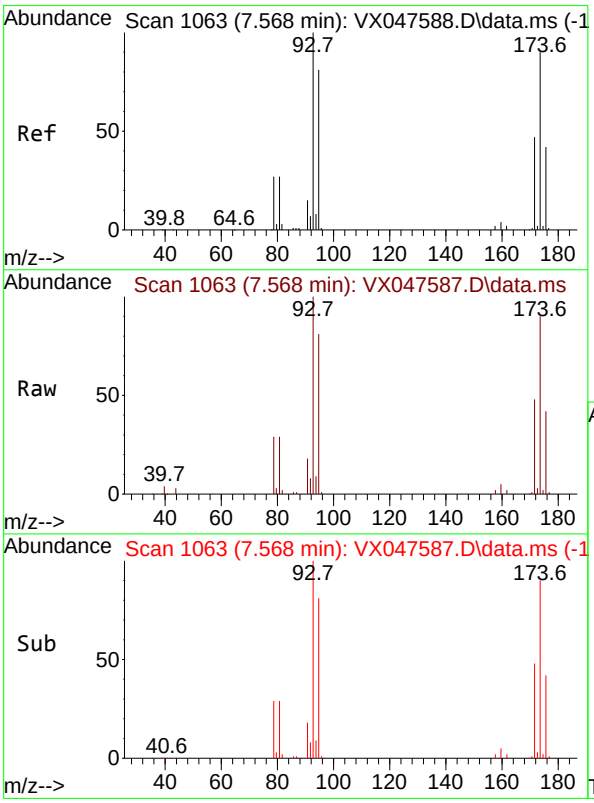
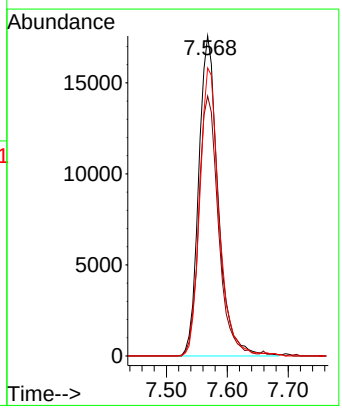
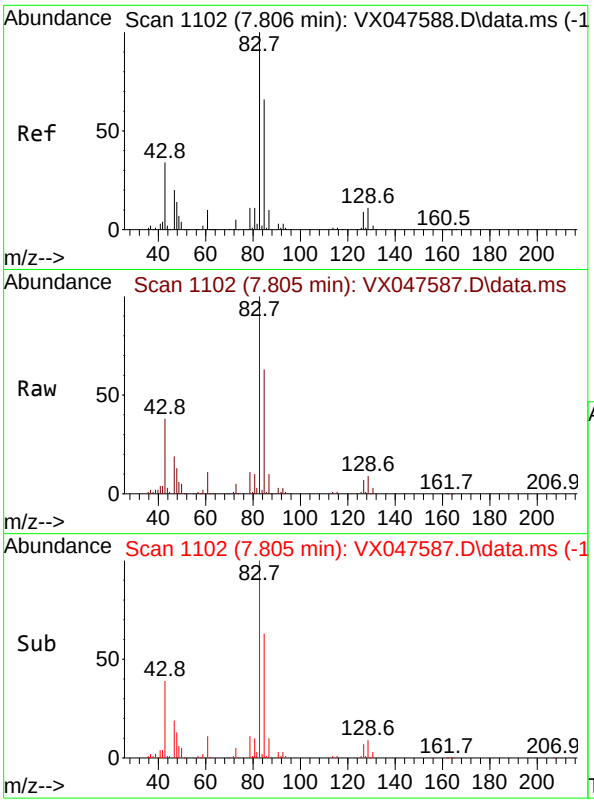


#46
Dibromomethane
Concen: 20.862 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 93 Resp: 38910

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.0	97.6
174	89.2	71.6	107.4

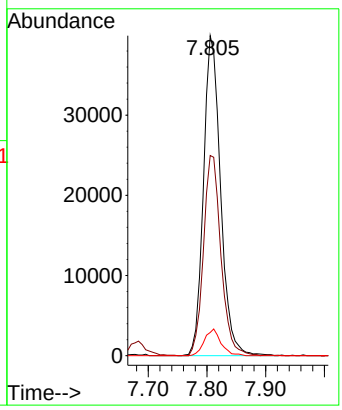




#47
Bromodichloromethane
Concen: 21.002 ug/l
RT: 7.805 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 8083

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
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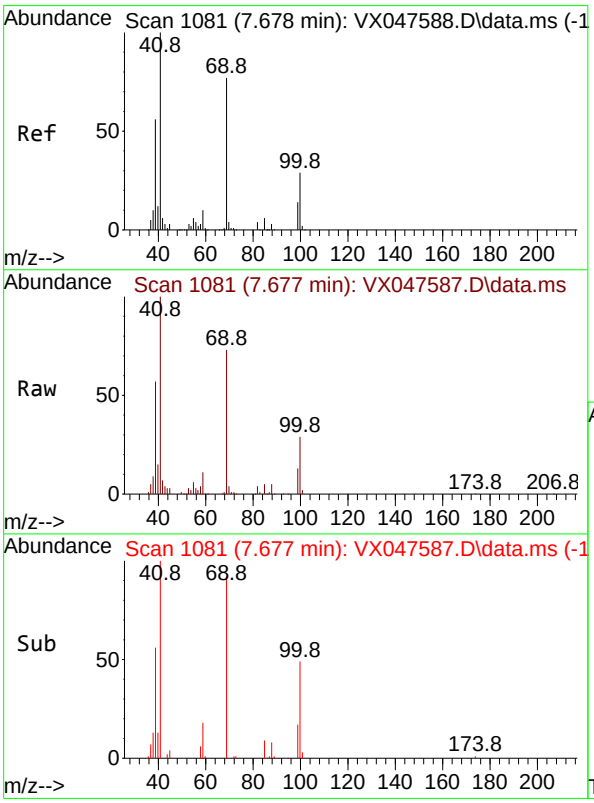
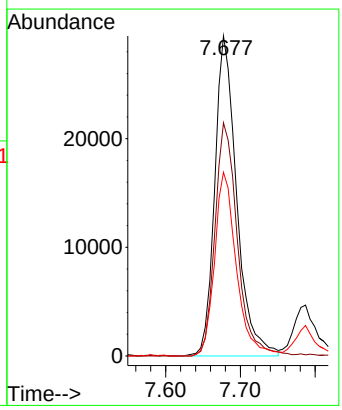
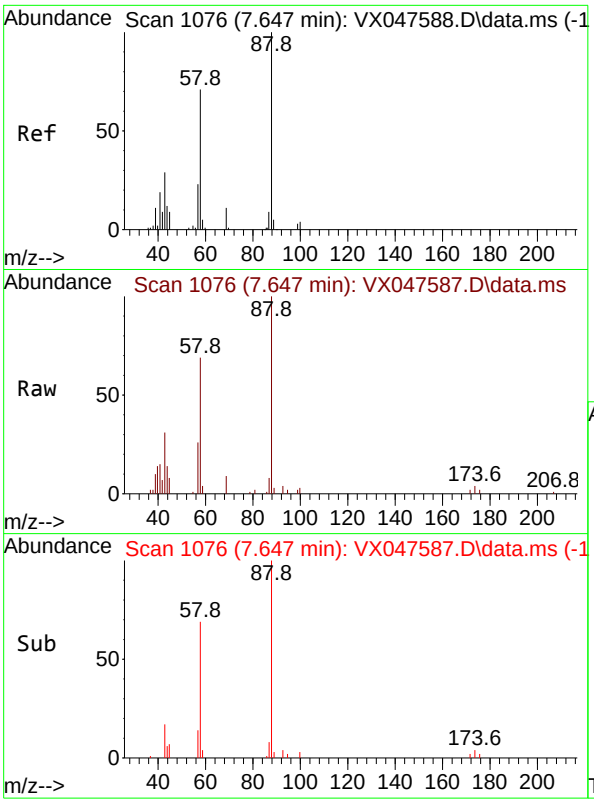


#48
Methyl methacrylate
Concen: 20.877 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 41 Resp: 60182

Ion	Ratio	Lower	Upper
41	100		
69	74.2	61.4	92.2
39	57.2	45.8	68.6

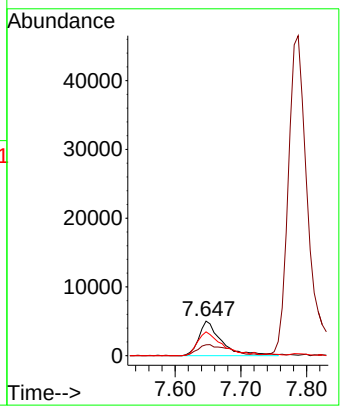




#49
1,4-Dioxane
Concen: 413.530 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 88 Resp: 1204

Ion	Ratio	Lower	Upper
88	100		
43	44.7	30.2	45.2
58	75.8	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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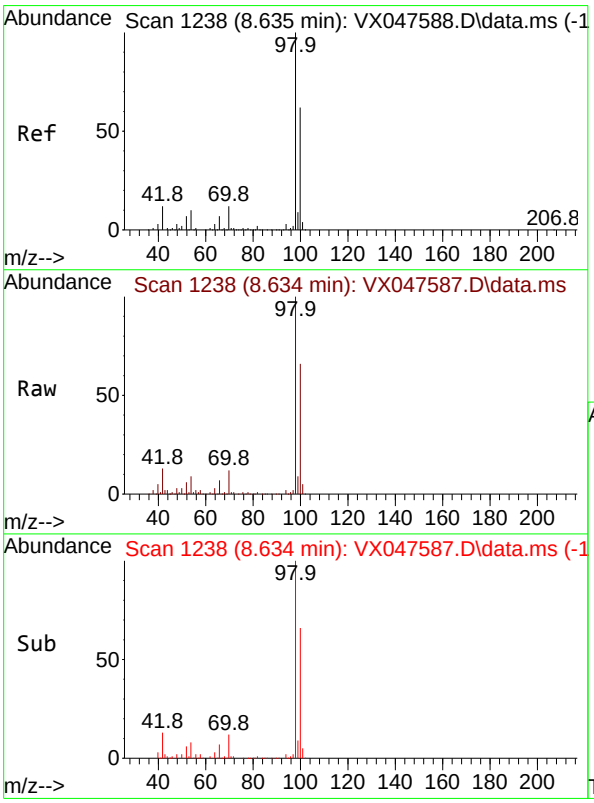
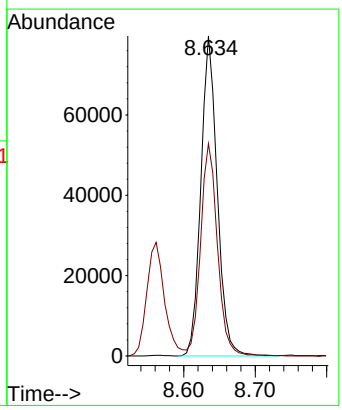
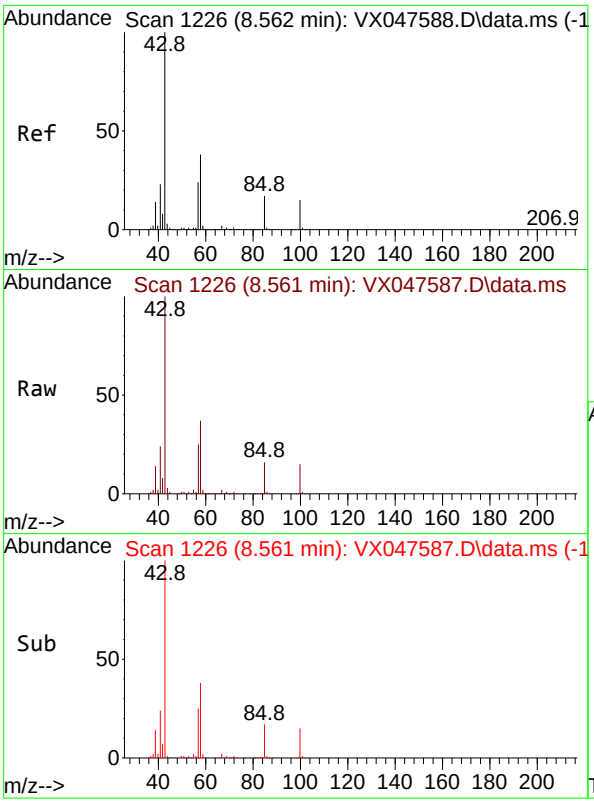


#50
Toluene-d8
Concen: 16.258 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 98 Resp: 126875

Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4

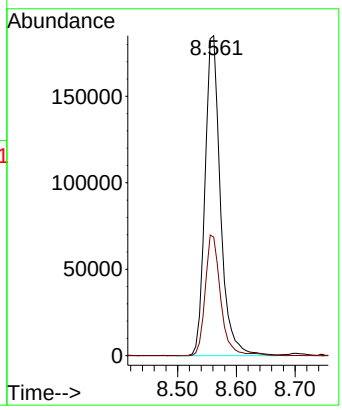




#51
4-Methyl-2-Pentanone
Concen: 105.456 ug/l
RT: 8.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 33837

Ion	Ratio	Lower	Upper
43	100		
58	37.8	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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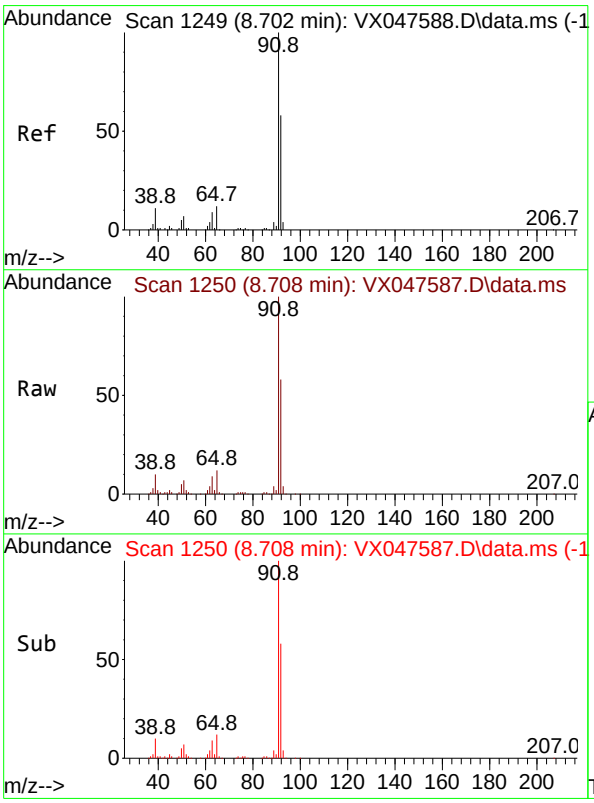
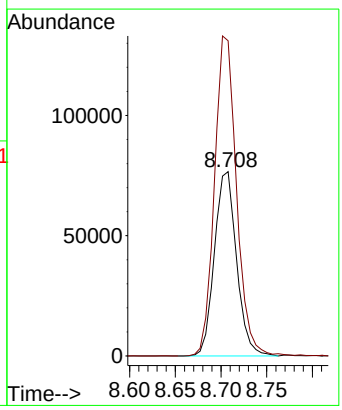
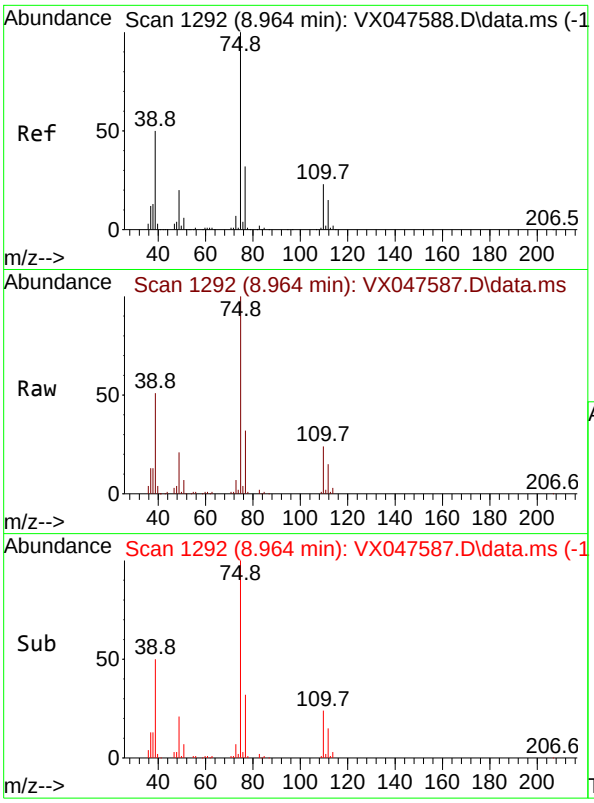


#52
Toluene
Concen: 20.950 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 92 Resp: 129193

Ion	Ratio	Lower	Upper
92	100		
91	173.2	137.1	205.7

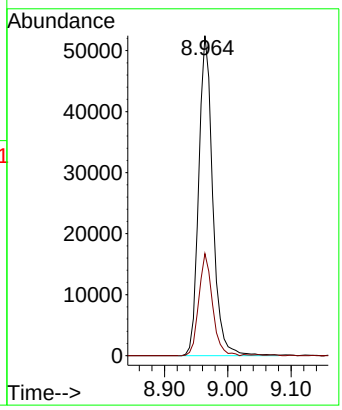




#53
t-1,3-Dichloropropene
Concen: 20.625 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 8097

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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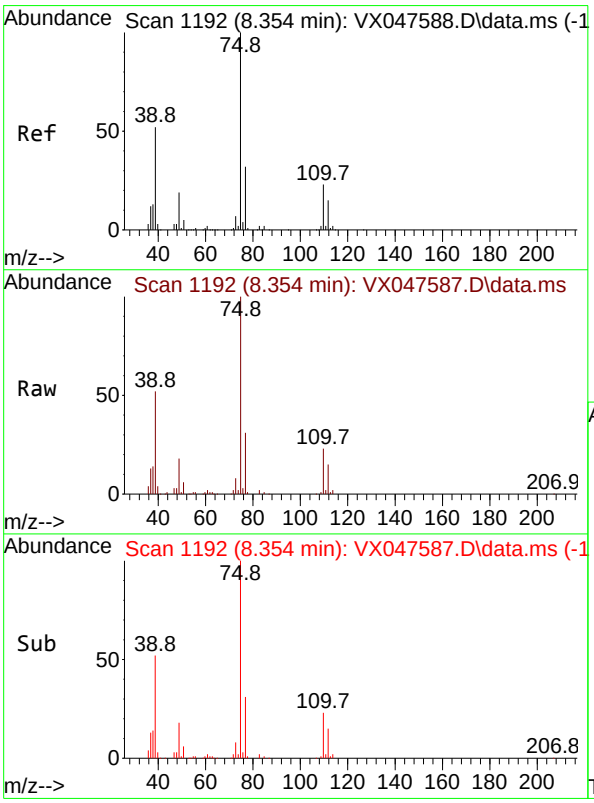
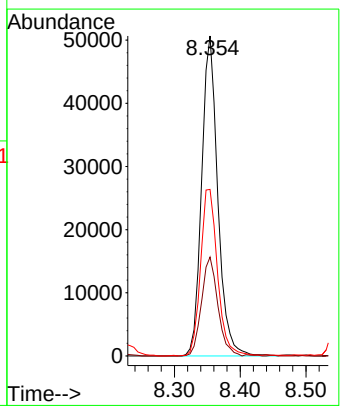
Supervised By :Mahesh Dadoda 09/18/2025

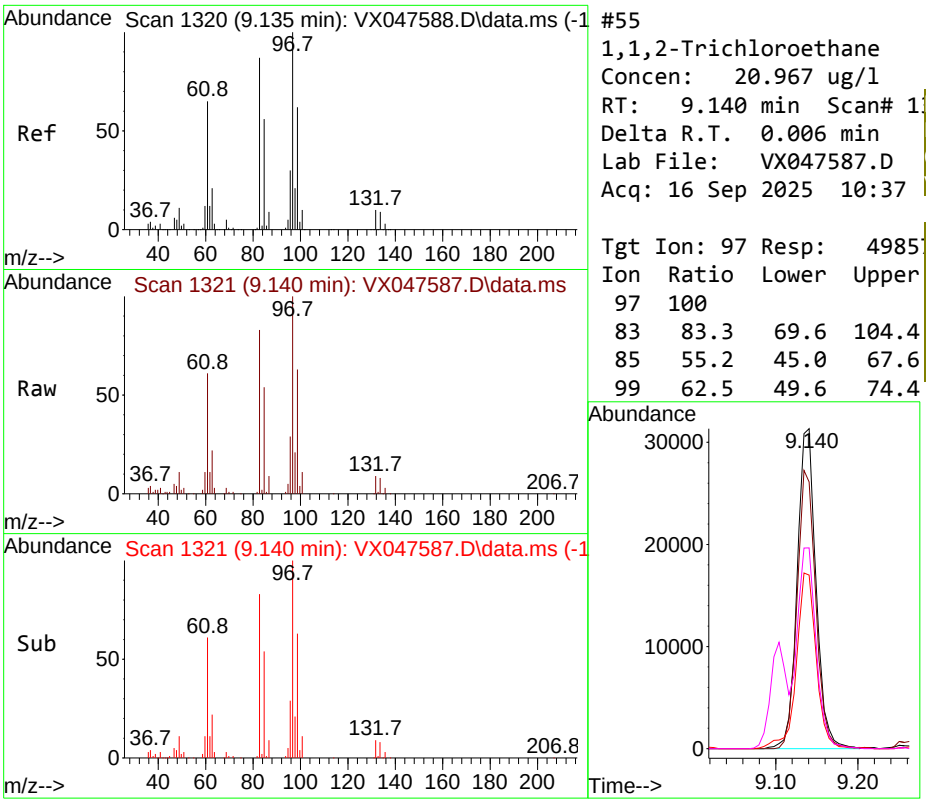


#54
cis-1,3-Dichloropropene
Concen: 20.650 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 86648

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.8	38.6
39	52.0	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 20.967 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 97 Resp: 4985

Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.6	104.4
85	55.2	45.0	67.6
99	62.5	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
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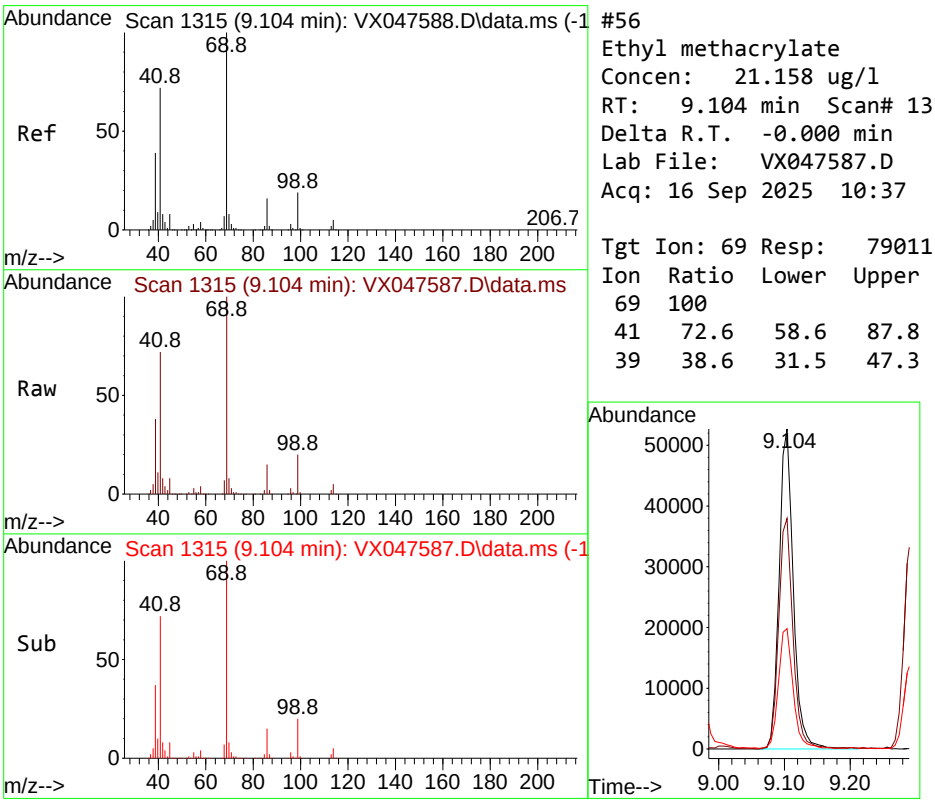
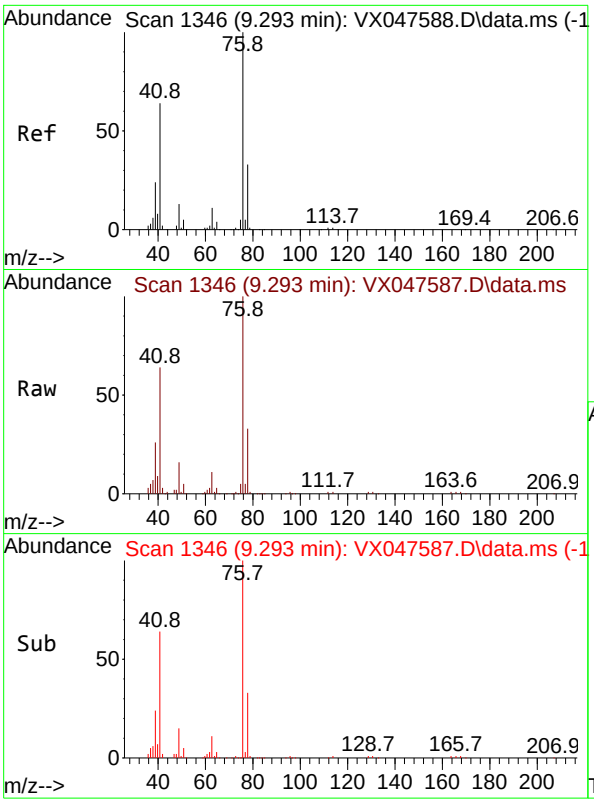


#56
Ethyl methacrylate
Concen: 21.158 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 69 Resp: 79011

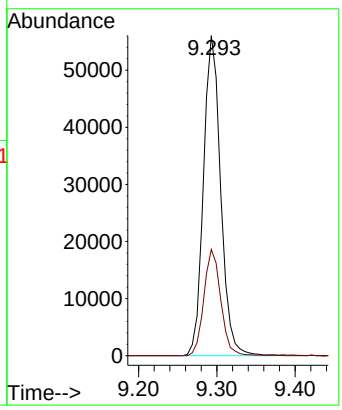
Ion	Ratio	Lower	Upper
69	100		
41	72.6	58.6	87.8
39	38.6	31.5	47.3



#57
1,3-Dichloropropane
Concen: 20.934 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 76 Resp: 8551

Ion	Ratio	Lower	Upper
76	100		
78	32.6	26.2	39.4



Instrument :
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ClientSampleId :
VSTDICC020

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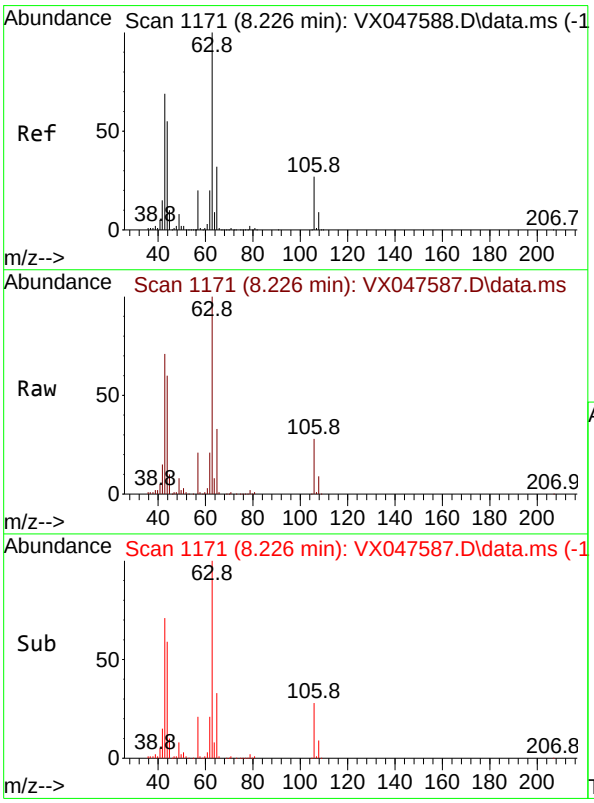
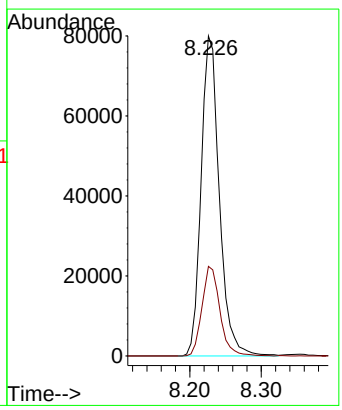
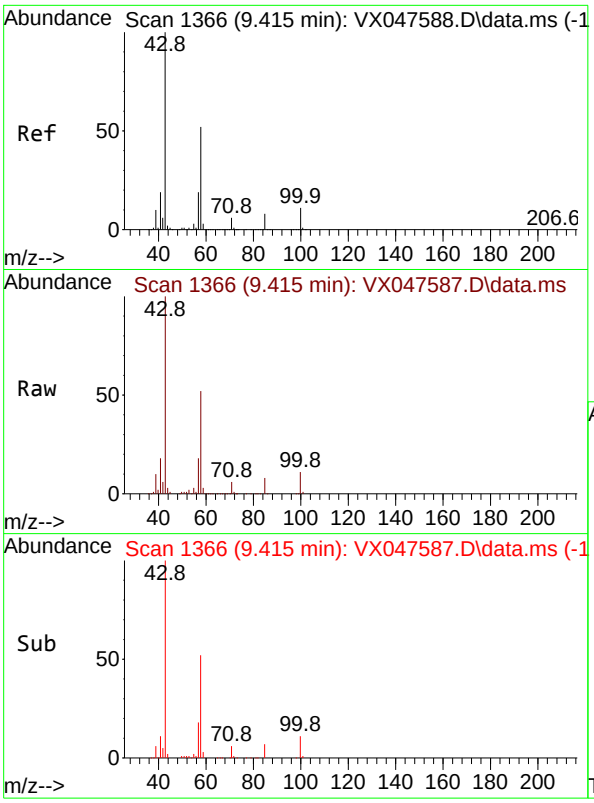


#58
2-Chloroethyl Vinyl ether
Concen: 86.617 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 63 Resp: 141395

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9





#59
2-Hexanone
Concen: 108.488 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 25000

Ion	Ratio	Lower	Upper
43	100		
58	51.4	26.1	78.2

Instrument :
MSVOA_X
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VSTDICC020

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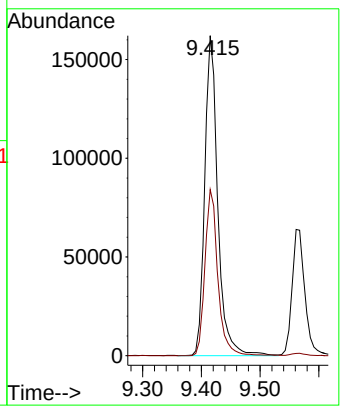
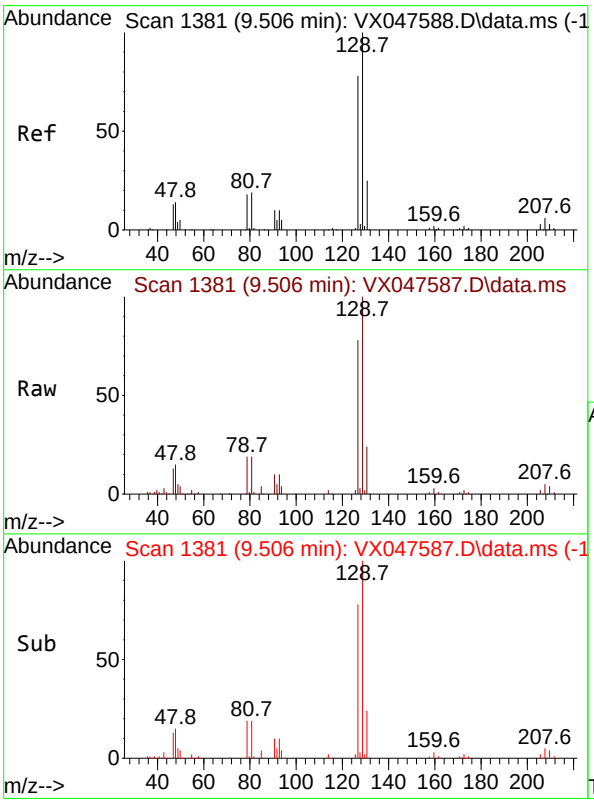
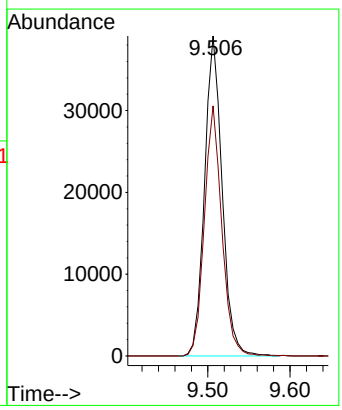


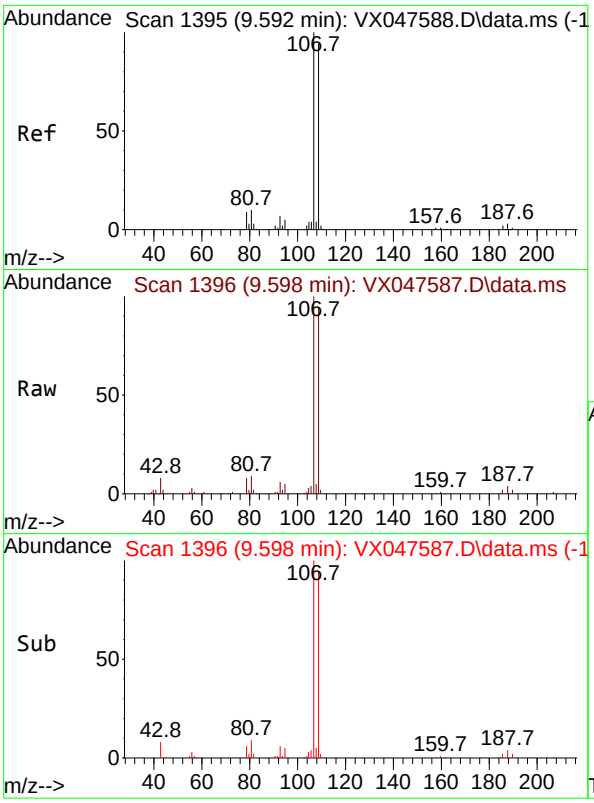


#60
Dibromochloromethane
Concen: 21.167 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:129 Resp: 57994

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.4	115.2

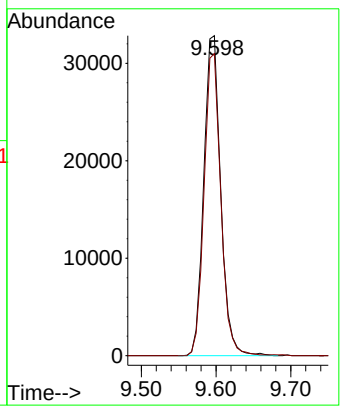




#61
1,2-Dibromoethane
Concen: 21.310 ug/l
RT: 9.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:107 Resp: 5161

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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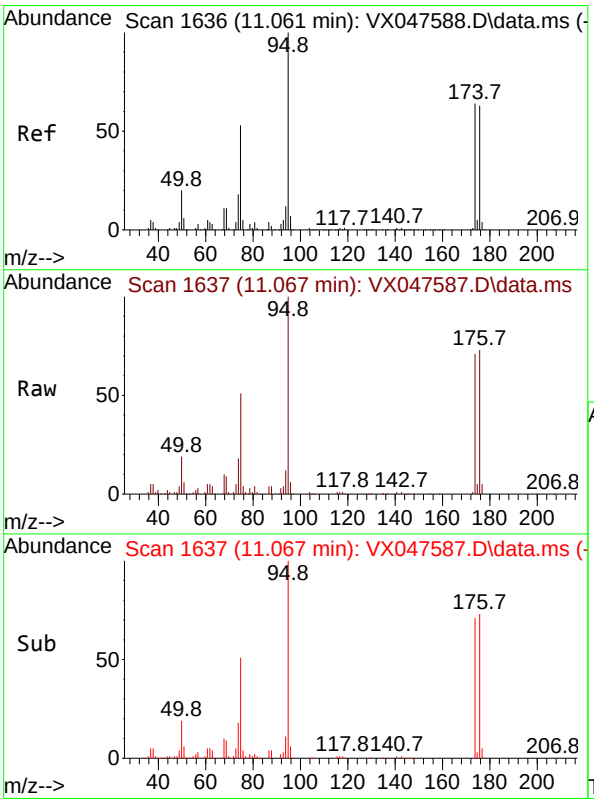
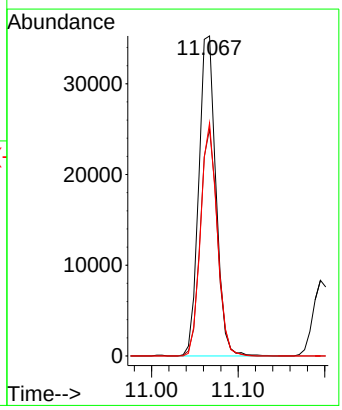
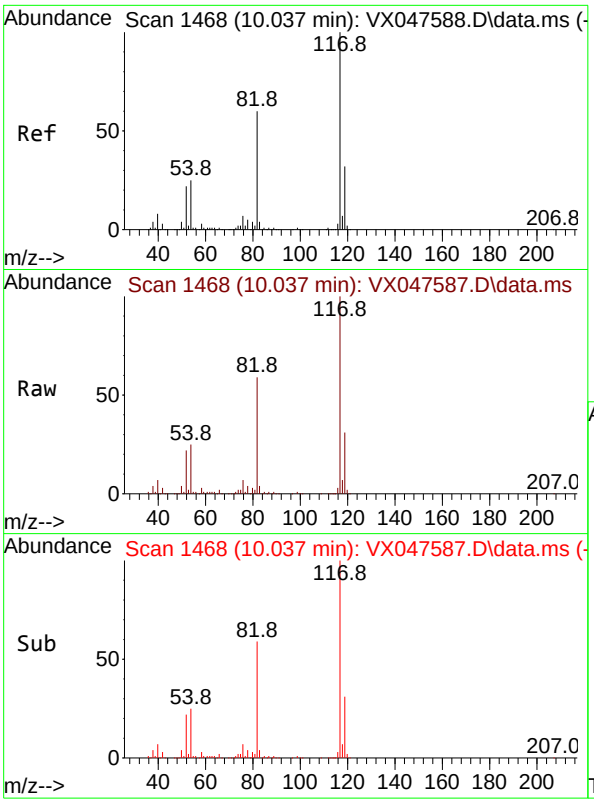


#62
4-Bromofluorobenzene
Concen: 16.360 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 95 Resp: 48454

Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	141.6
176	70.3	0.0	138.4

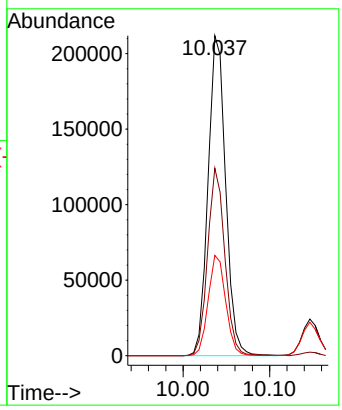




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 29862

Ion	Ratio	Lower	Upper
117	100		
82	58.6	47.8	71.6
119	31.3	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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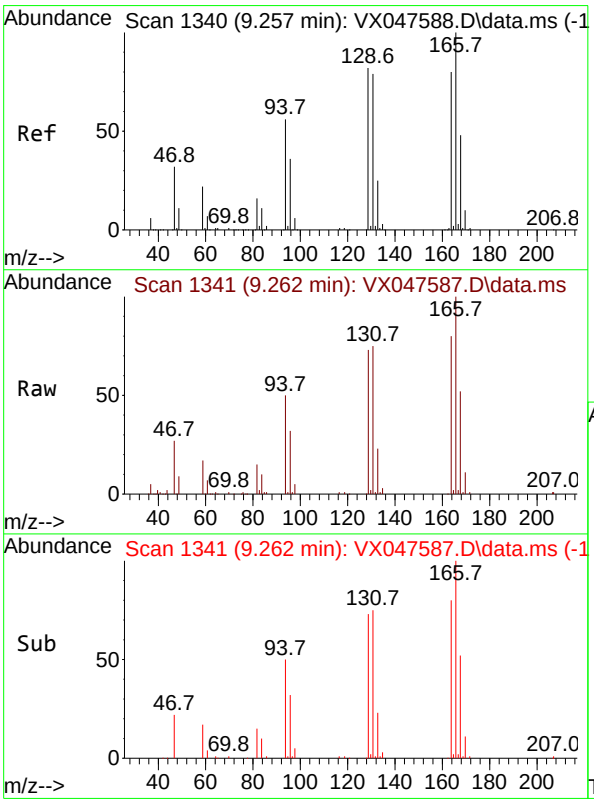
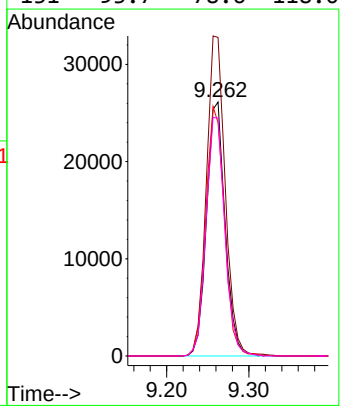
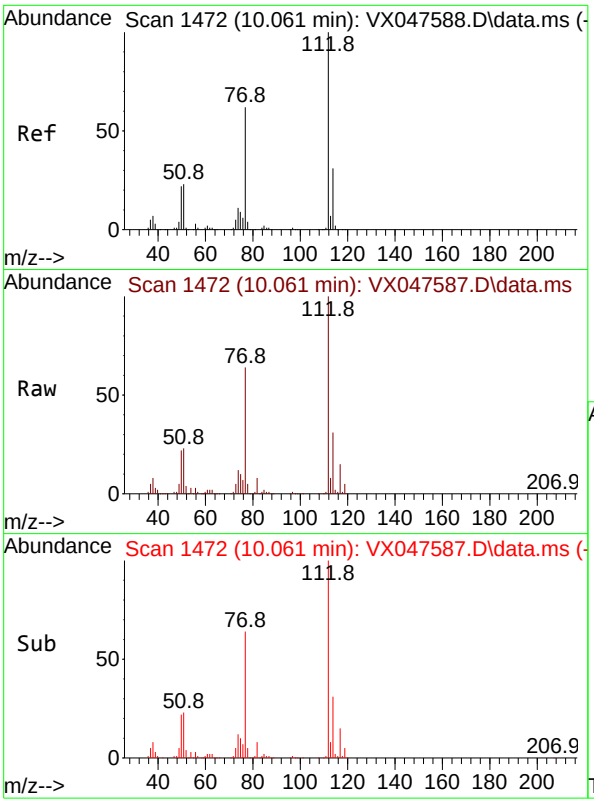


#64
Tetrachloroethene
Concen: 20.979 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:164 Resp: 40840

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.2	150.2
129	91.8	81.8	122.6
131	93.7	78.6	118.0





#65
Chlorobenzene
Concen: 20.731 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:112 Resp: 14064

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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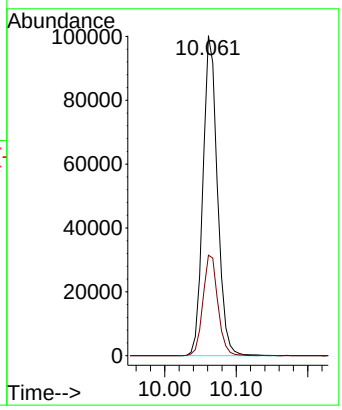
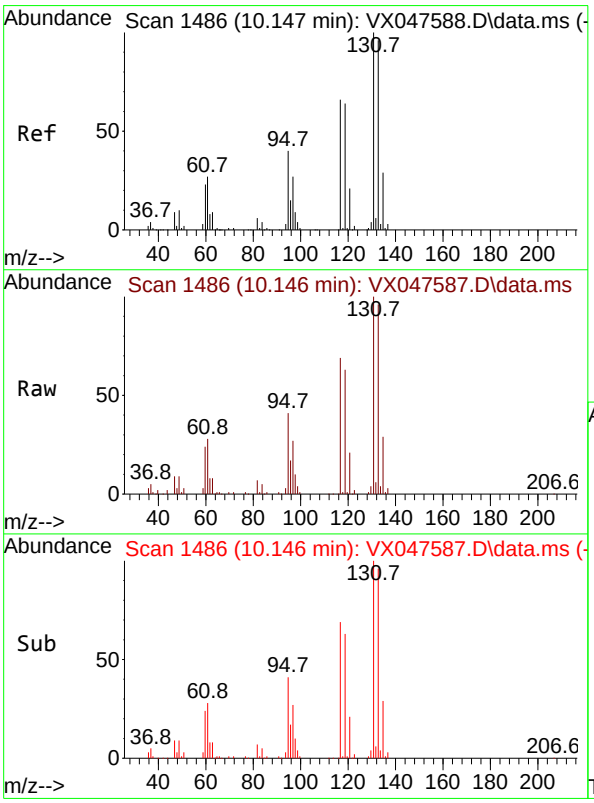
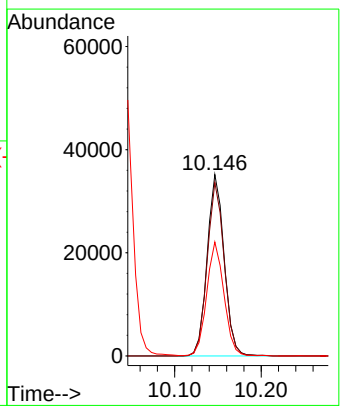


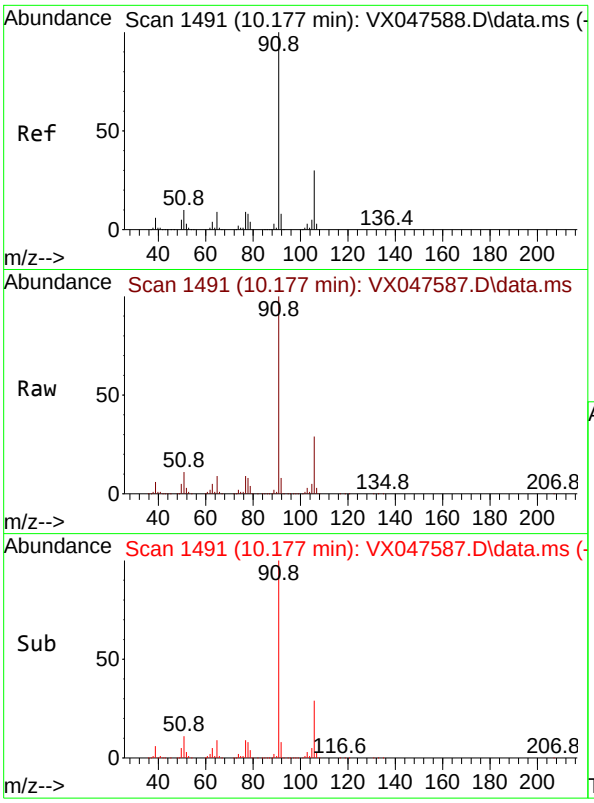


#66
1,1,1,2-Tetrachloroethane
Concen: 20.513 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:131 Resp: 48022

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.3	142.0
119	63.9	32.0	96.0





#67
Ethyl Benzene
Concen: 20.907 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 24473

Ion	Ratio	Lower	Upper
91	100		
106	29.3	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
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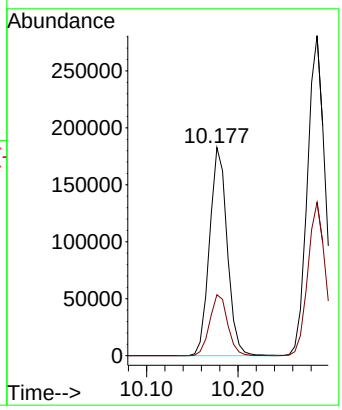
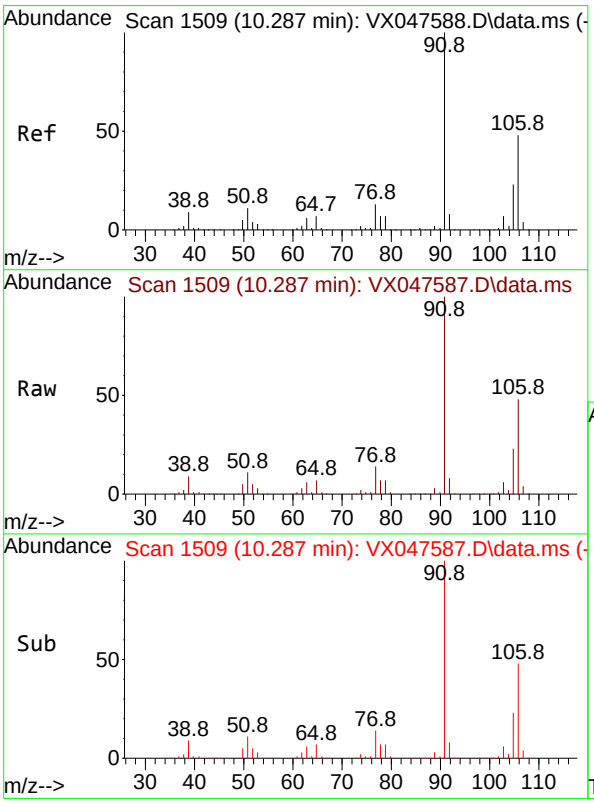
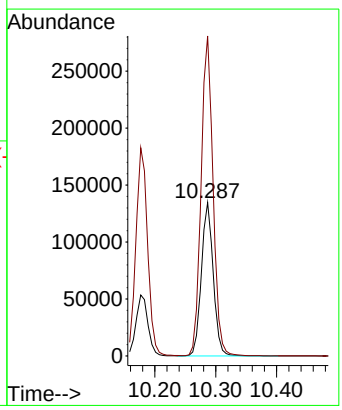


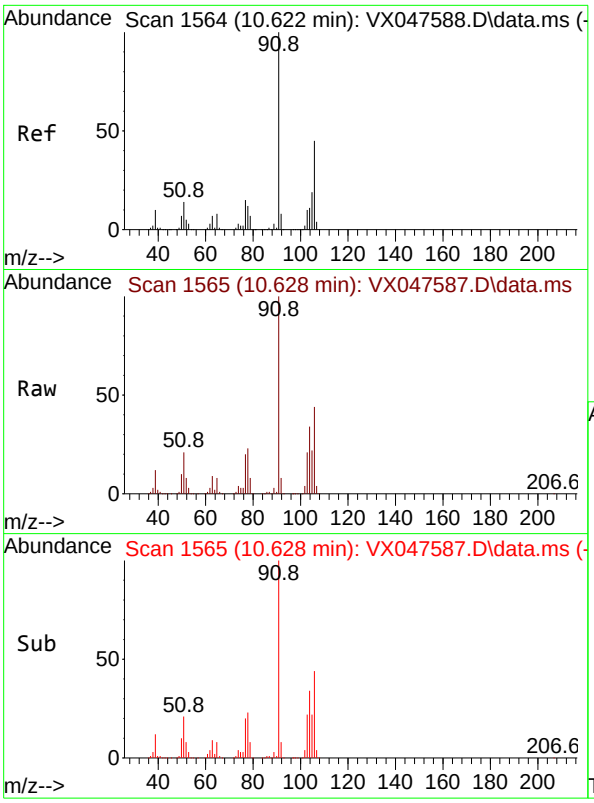


#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 182778

Ion	Ratio	Lower	Upper
106	100		
91	210.2	167.8	251.8

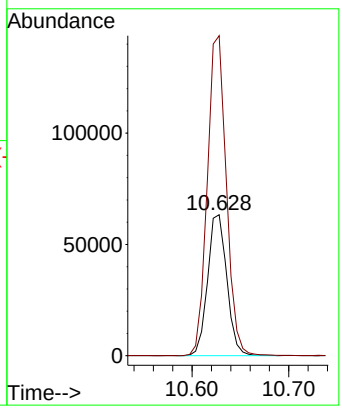




#69
o-Xylene
Concen: 20.799 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:106 Resp: 8765

Ion	Ratio	Lower	Upper
106	100		
91	225.3	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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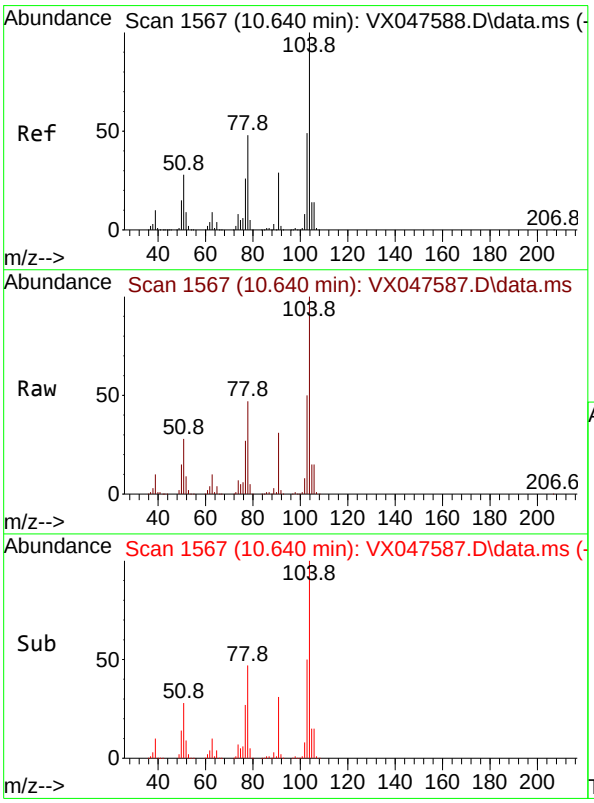
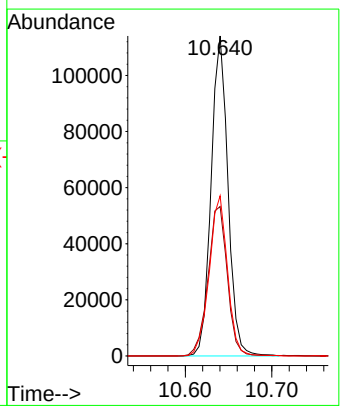
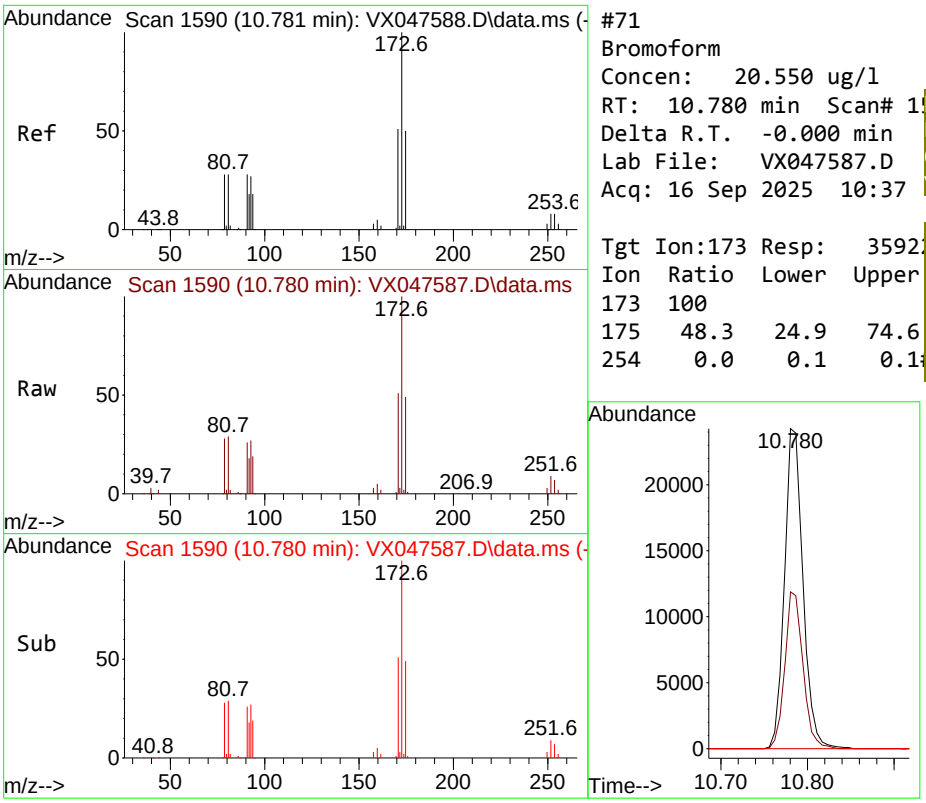


#70
Styrene
Concen: 20.866 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:104 Resp: 154077

Ion	Ratio	Lower	Upper
104	100		
78	53.6	43.1	64.7
103	54.4	43.1	64.7





#71
Bromoform
Concen: 20.550 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:173 Resp: 3592

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.9	74.6
254	0.0	0.1	0.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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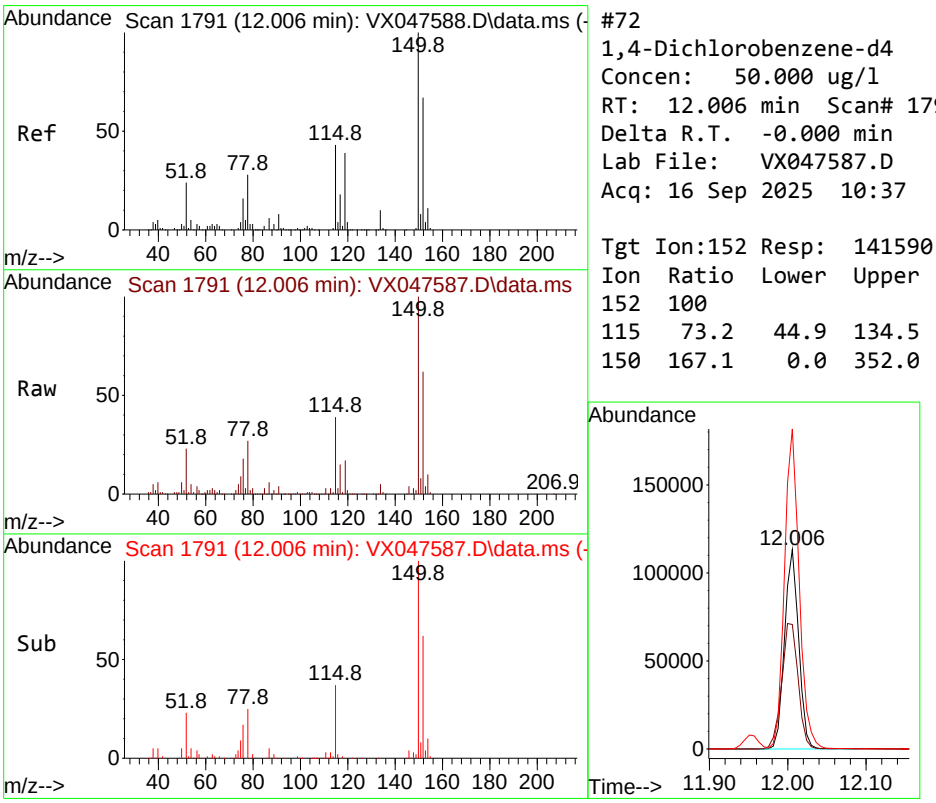
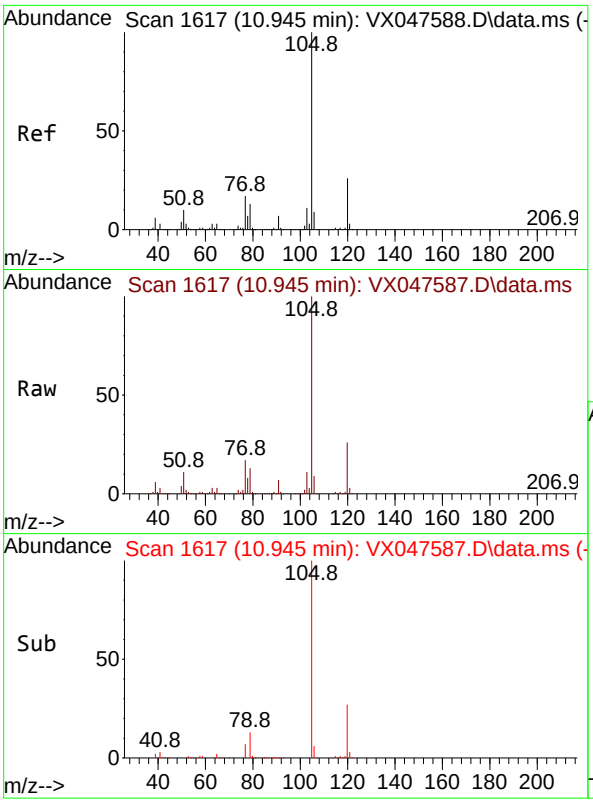


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:152 Resp: 141590

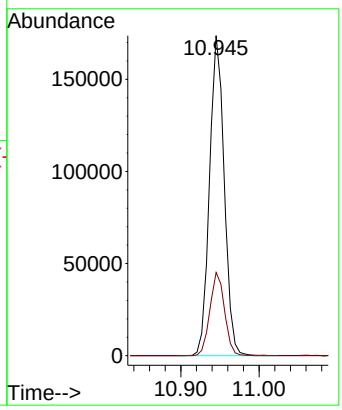
Ion	Ratio	Lower	Upper
152	100		
115	73.2	44.9	134.5
150	167.1	0.0	352.0



#73
Isopropylbenzene
Concen: 20.970 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 22573

Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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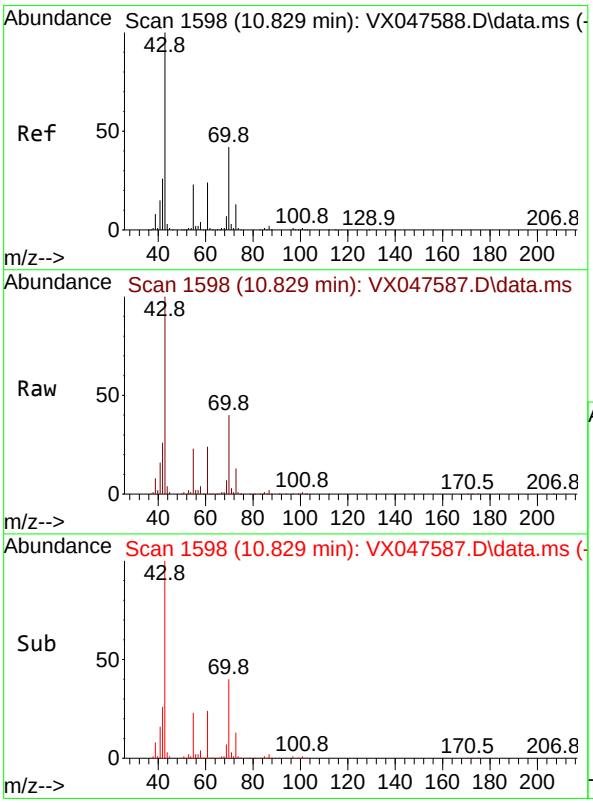
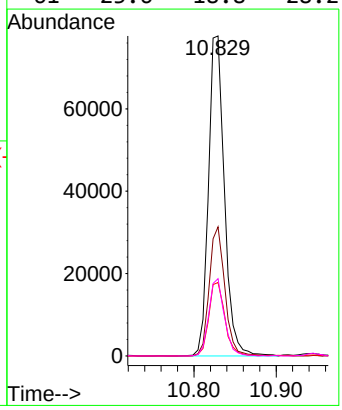
Supervised By :Mahesh Dadoda 09/18/2025

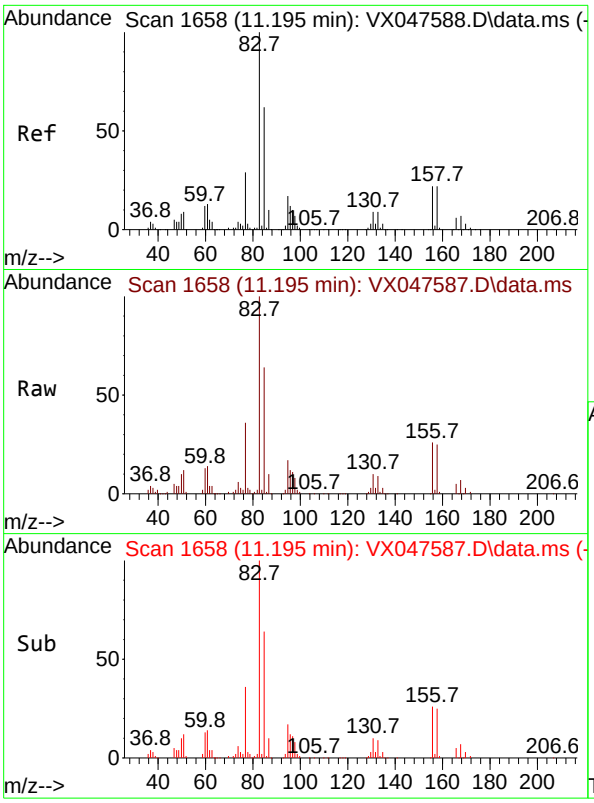


#74
N-amyl acetate
Concen: 21.354 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 104823

Ion	Ratio	Lower	Upper
43	100		
70	39.8	32.0	48.0
55	23.4	18.9	28.3
61	23.6	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 20.920 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 83 Resp: 6813

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.4	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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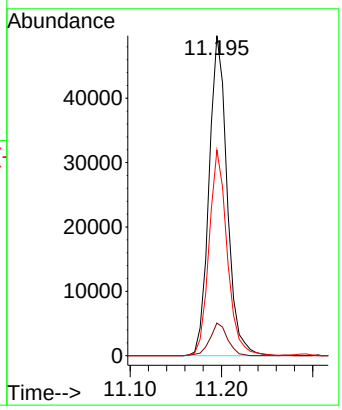
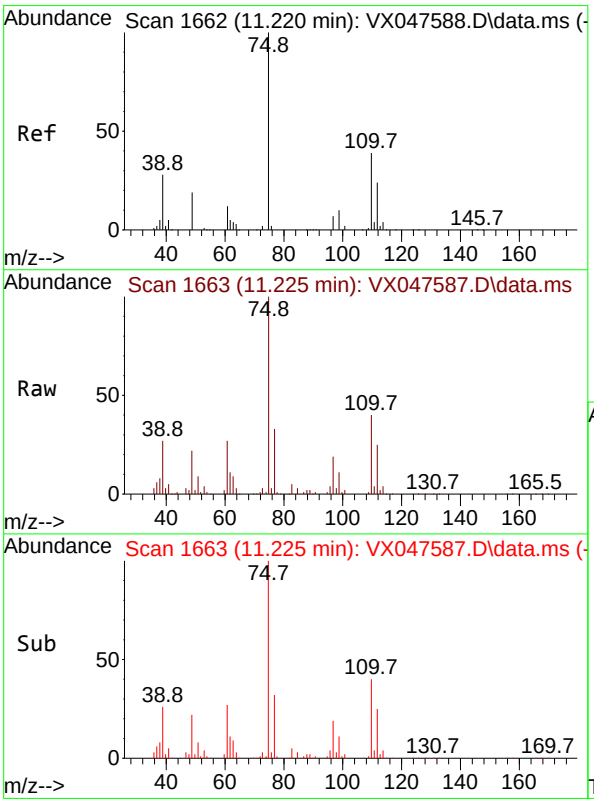
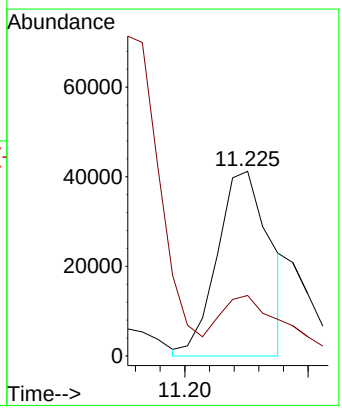


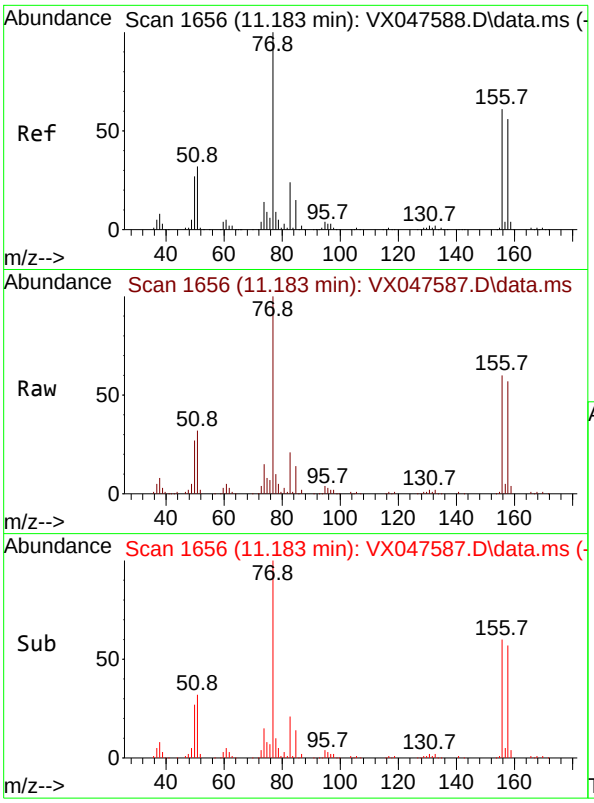


#76
1,2,3-Trichloropropane
Concen: 20.680 ug/l m
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 60797

Ion	Ratio	Lower	Upper
75	100		
77	39.6	18.8	56.4

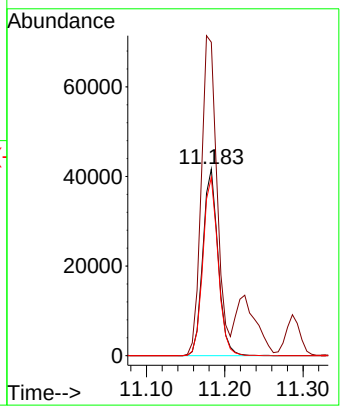




#77
Bromobenzene
Concen: 21.183 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:156 Resp: 5616

Ion	Ratio	Lower	Upper
156	100		
77	177.4	89.7	269.1
158	95.2	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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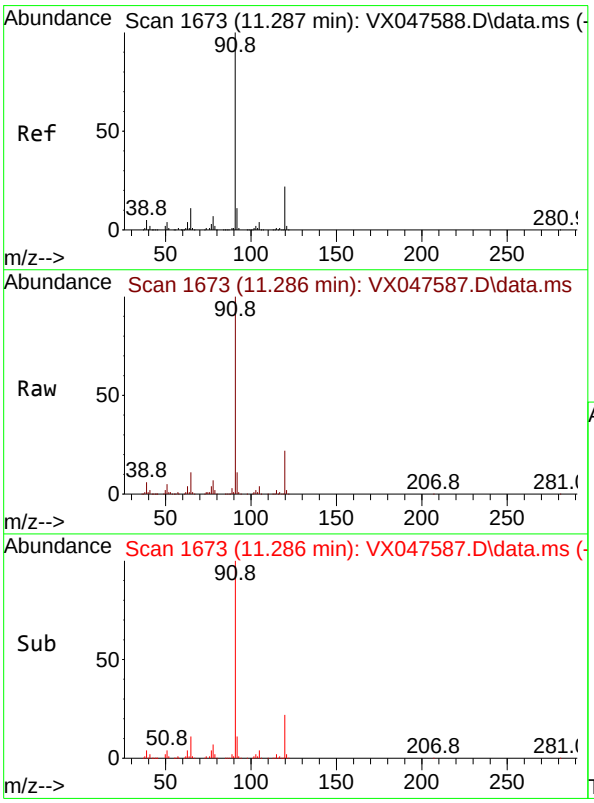
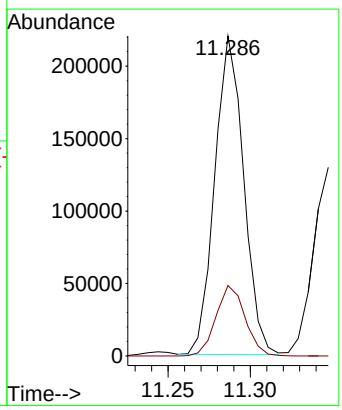
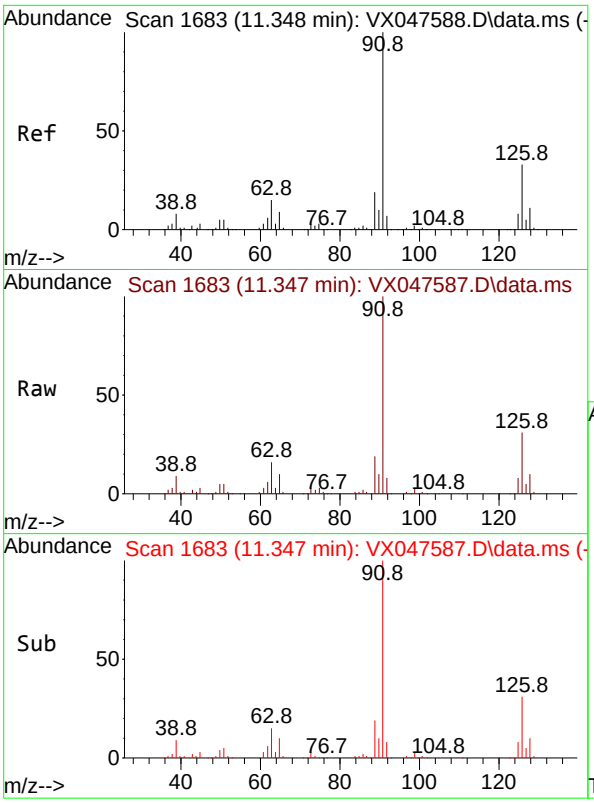


#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 268399

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1





#79
2-Chlorotoluene
Concen: 21.329 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 16623

Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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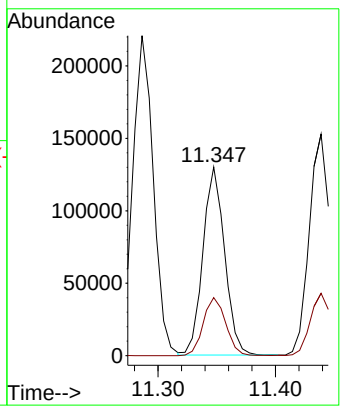
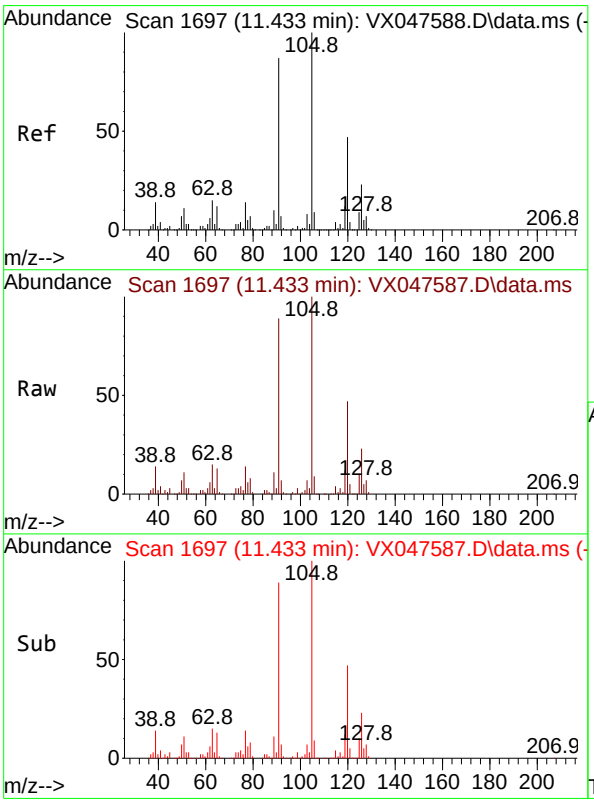
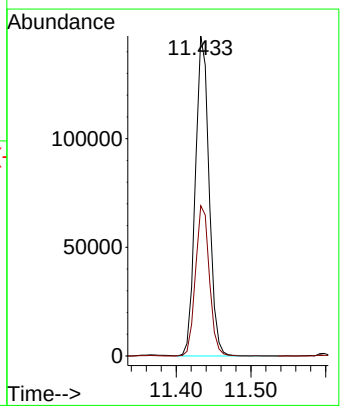


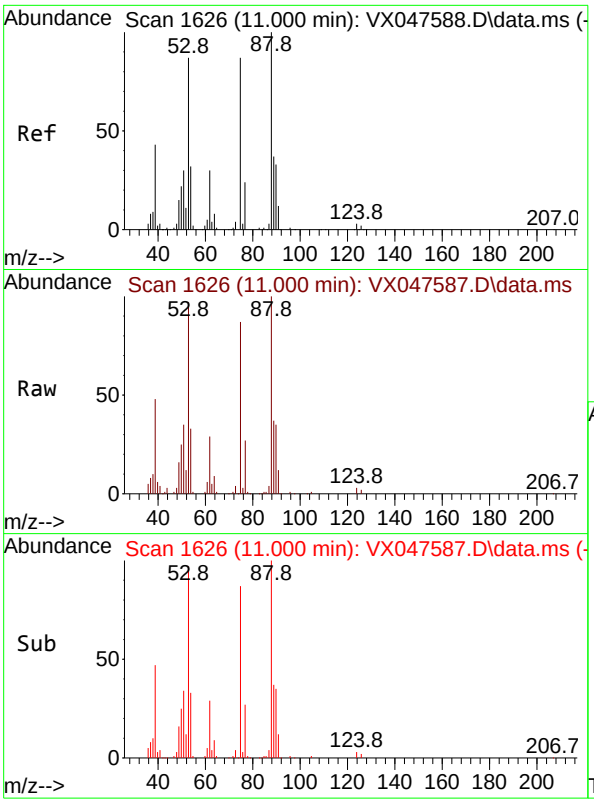


#80
1,3,5-Trimethylbenzene
Concen: 21.202 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 187513

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 2155

Ion	Ratio	Lower	Upper
75	100		
53	109.1	83.4	125.2
89	47.6	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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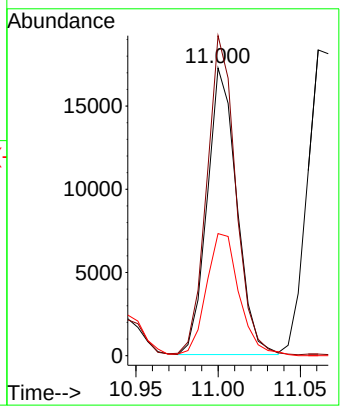
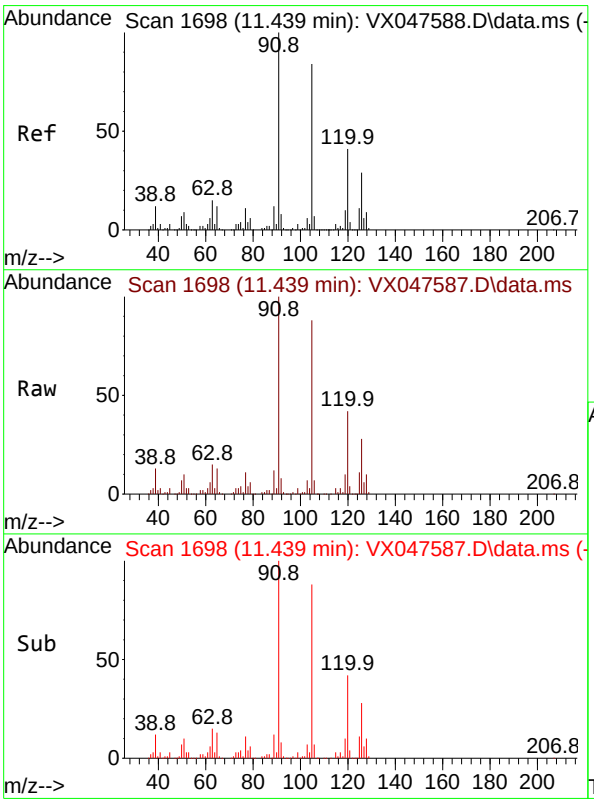
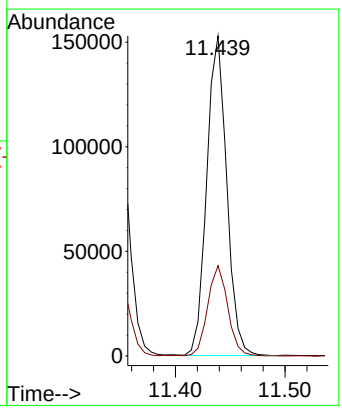


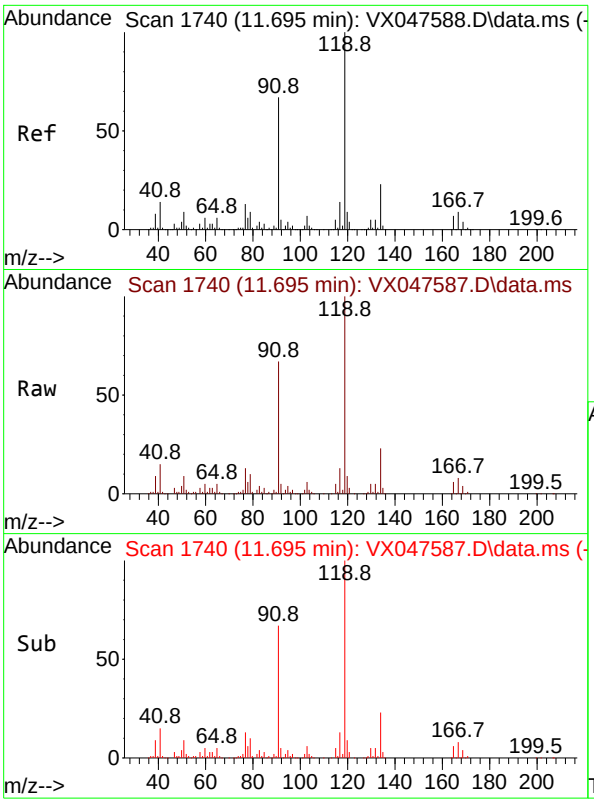


#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 193122

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

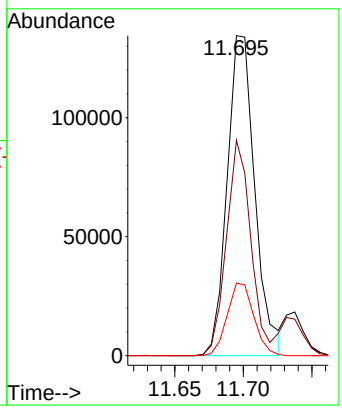




#83
tert-Butylbenzene
Concen: 20.929 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 18948

Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	21.8	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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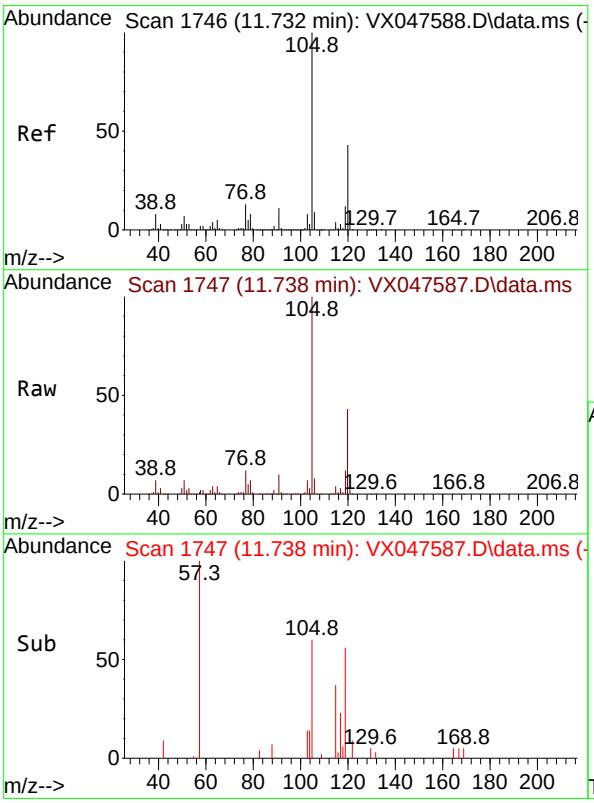
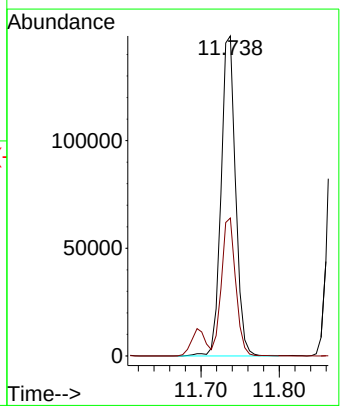
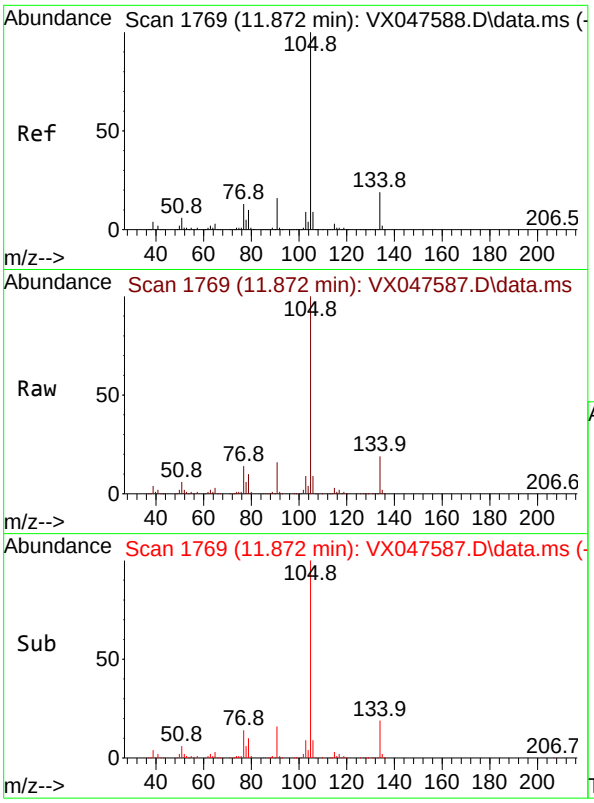


#84
1,2,4-Trimethylbenzene
Concen: 21.355 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 191477

Ion	Ratio	Lower	Upper
105	100		
120	42.6	22.1	66.1

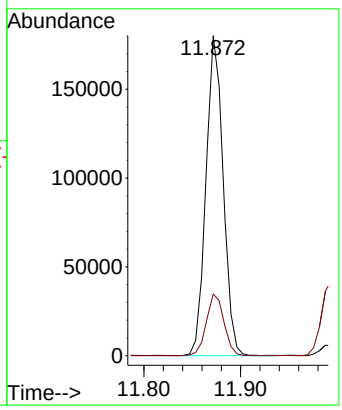




#85
sec-Butylbenzene
Concen: 20.777 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:105 Resp: 22343

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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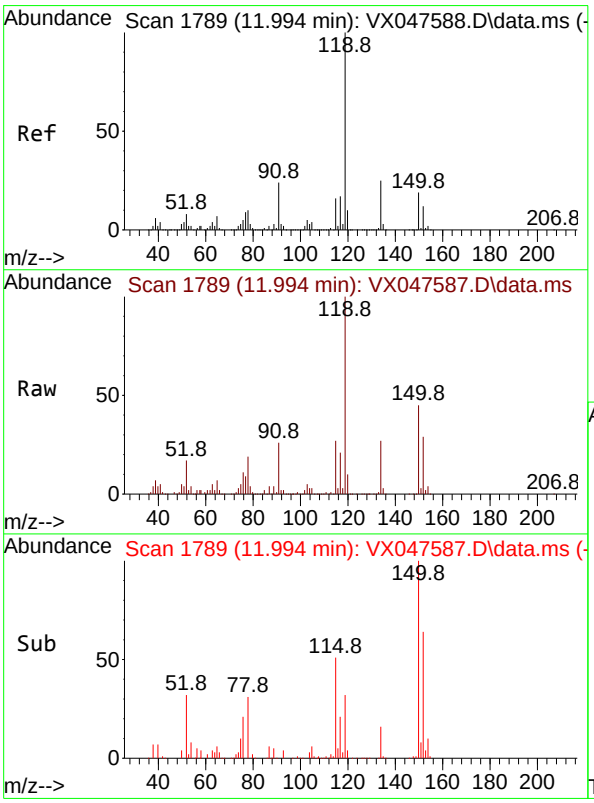
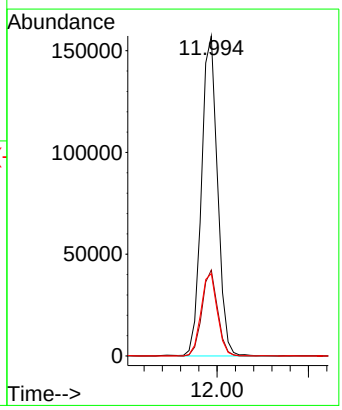
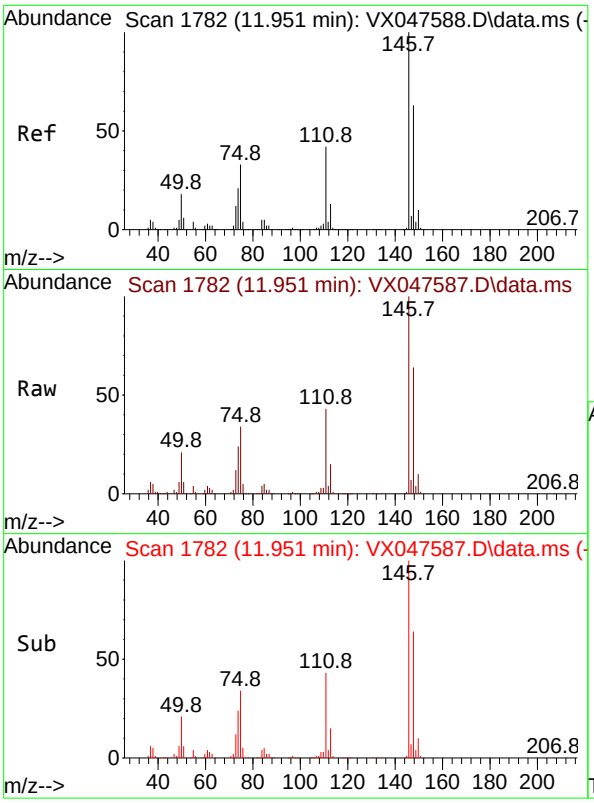


#86
p-Isopropyltoluene
Concen: 20.972 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:119 Resp: 190931

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.8
91	26.2	12.6	37.6

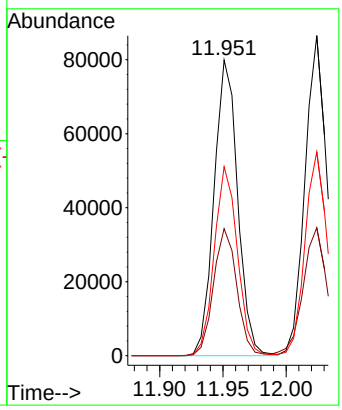




#87
1,3-Dichlorobenzene
Concen: 21.035 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 10358

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	62.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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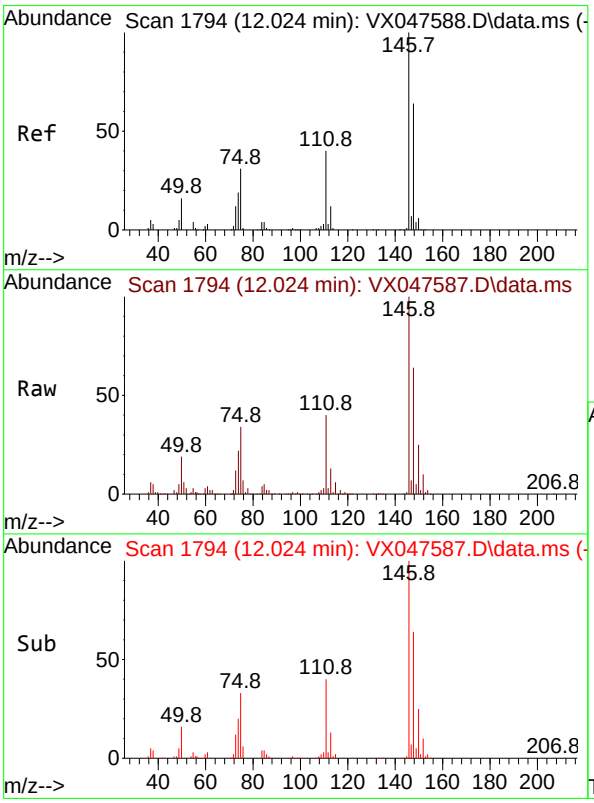
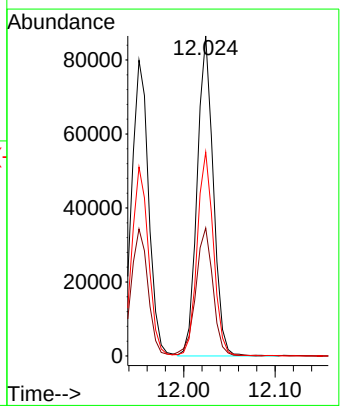
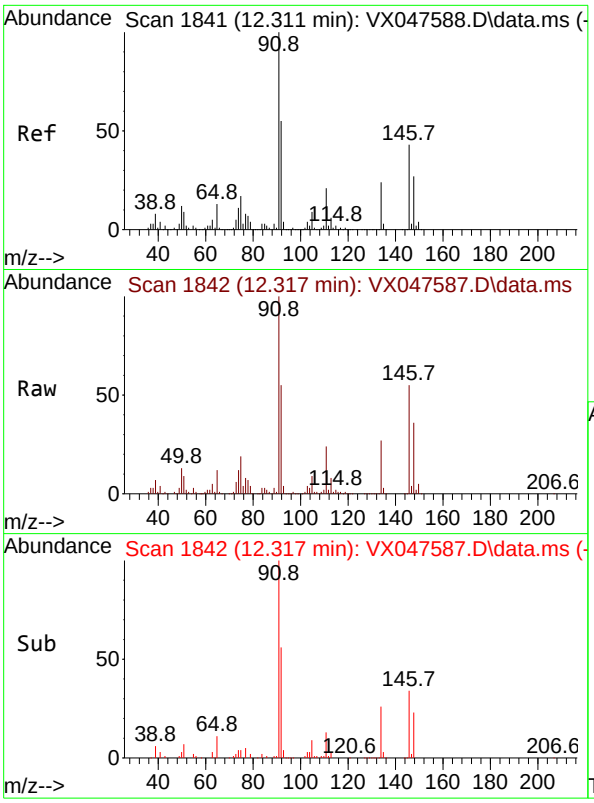


#88
1,4-Dichlorobenzene
Concen: 20.937 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 105819

Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.4
148	64.4	31.7	95.1

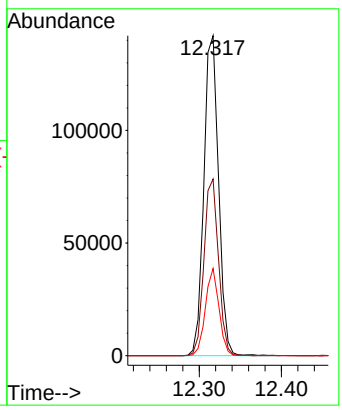




#89
n-Butylbenzene
Concen: 20.937 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 17637

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.6	82.7
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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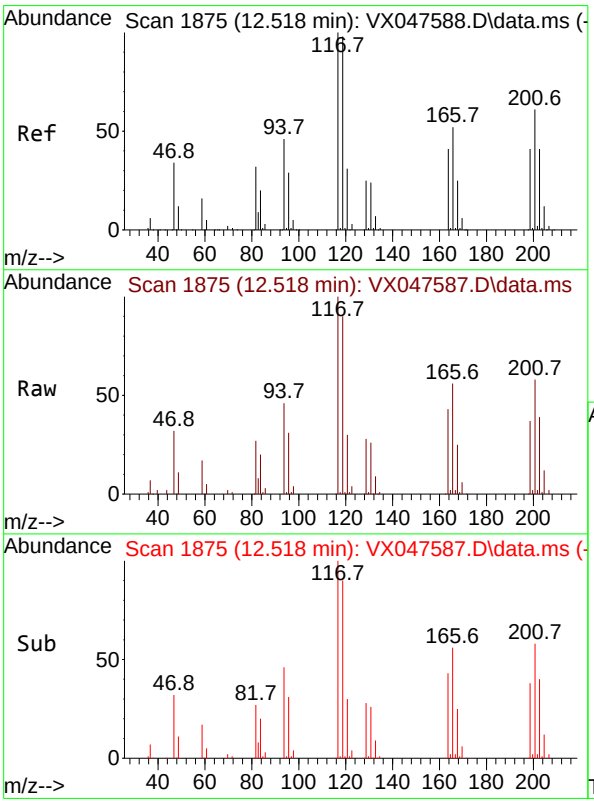
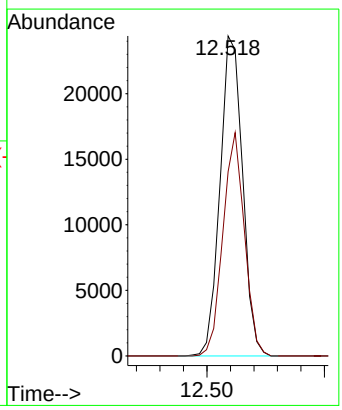
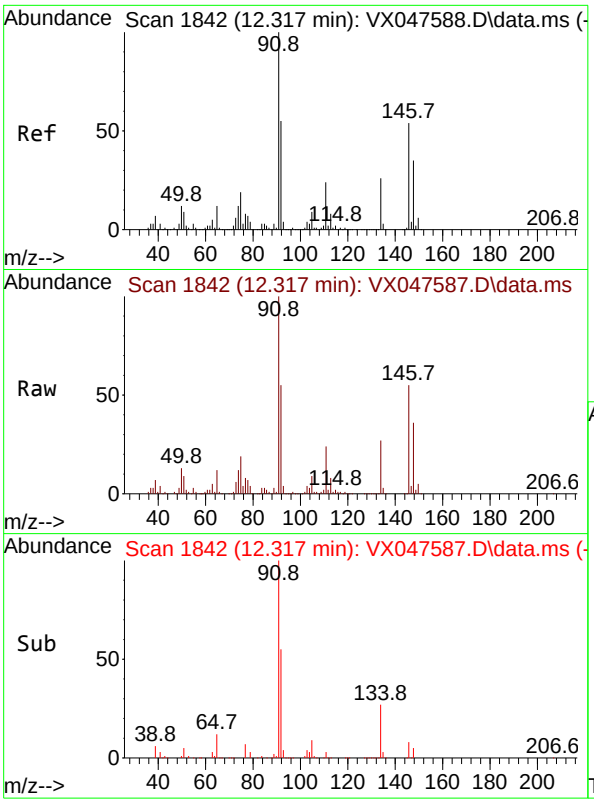


#90
Hexachloroethane
Concen: 20.349 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:117 Resp: 32526

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5

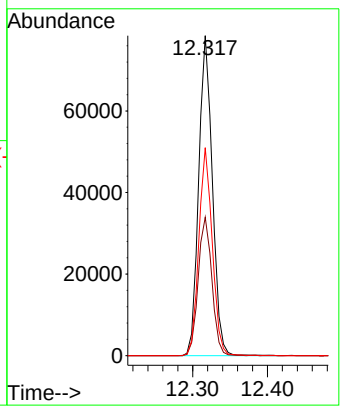




#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:146 Resp: 9949

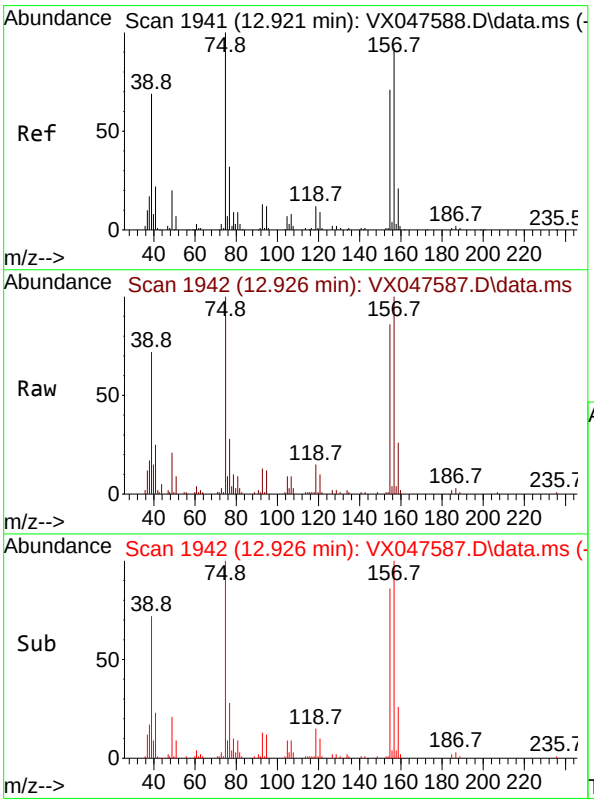
Ion	Ratio	Lower	Upper
146	100		
111	43.4	22.2	66.6
148	63.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

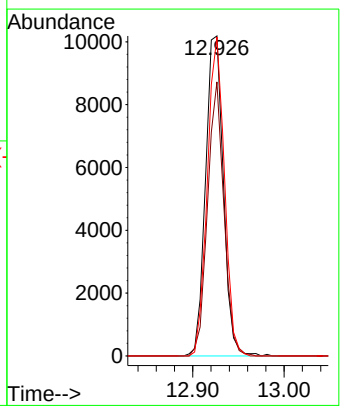
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

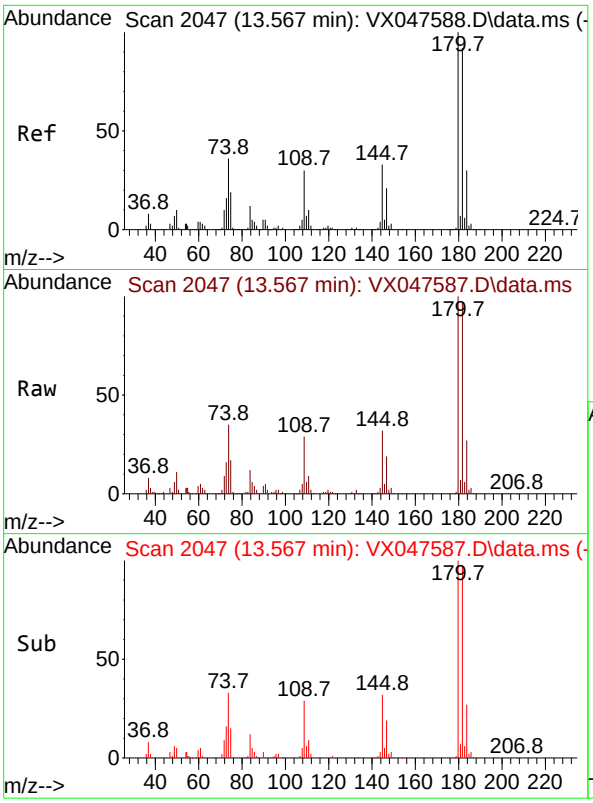


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.821 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 75 Resp: 13729

Ion	Ratio	Lower	Upper
75	100		
155	78.8	37.7	113.1
157	95.9	49.8	149.4

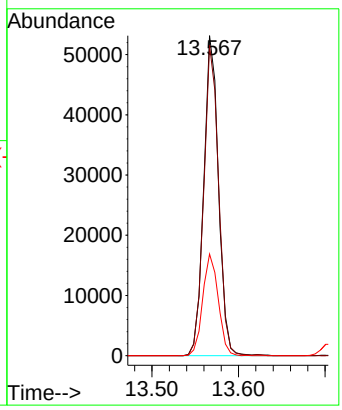




#93
1,2,4-Trichlorobenzene
Concen: 20.571 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:180 Resp: 6272

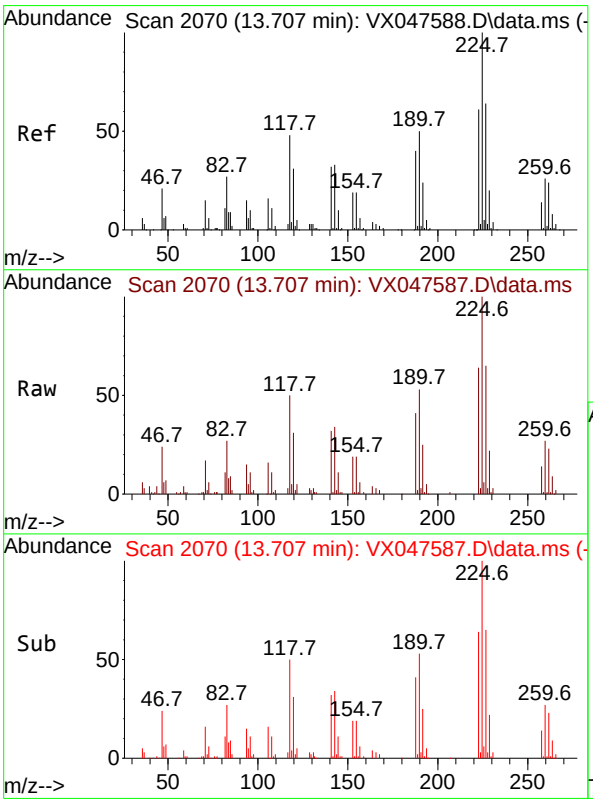
Ion	Ratio	Lower	Upper
180	100		
182	97.8	46.6	139.8
145	33.4	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

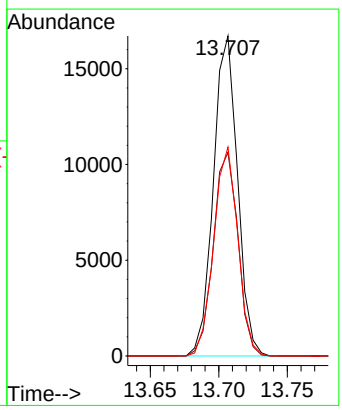
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

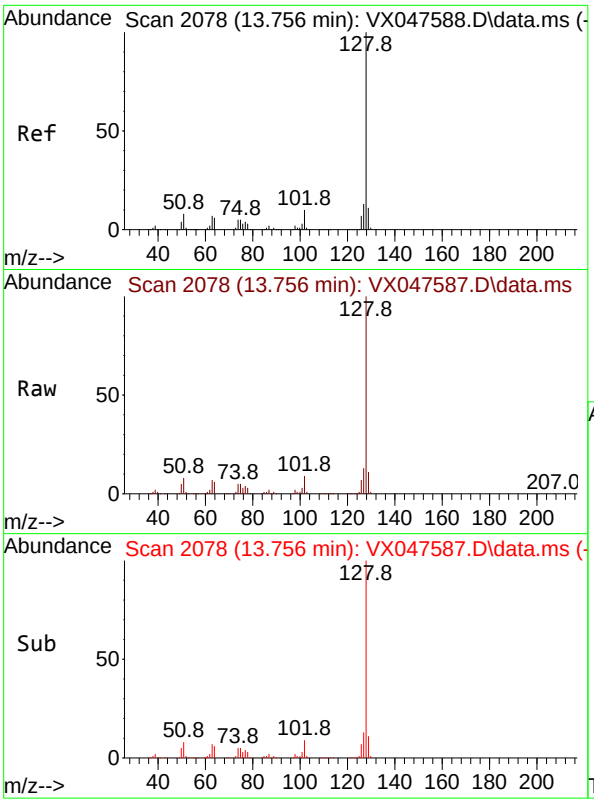


#94
Hexachlorobutadiene
Concen: 19.751 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:225 Resp: 20456

Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.7	95.1
227	65.1	32.0	96.0

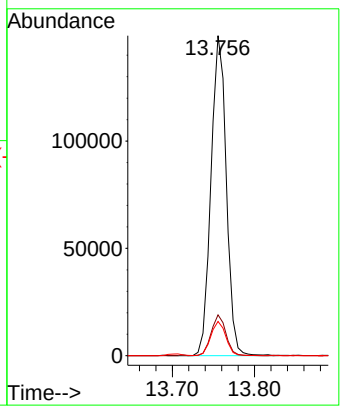




#95
Naphthalene
Concen: 20.801 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:128 Resp: 19313

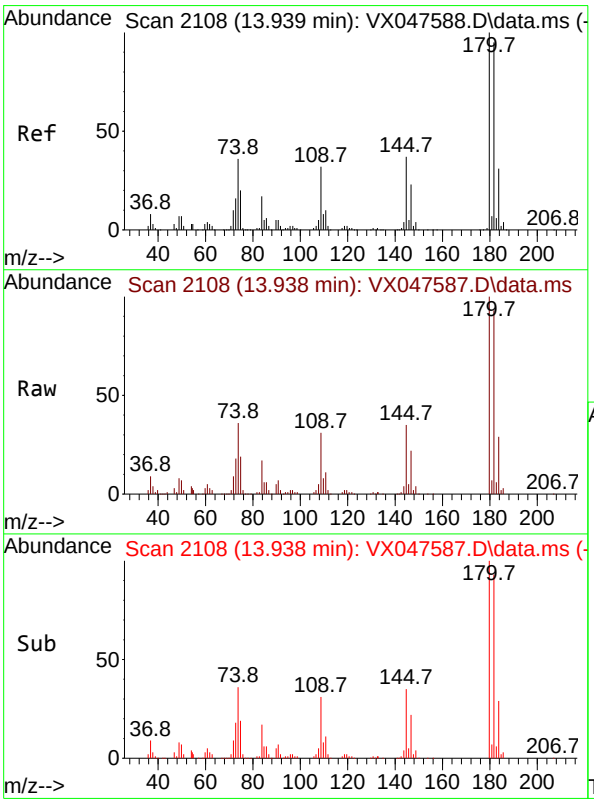
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	10.5	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

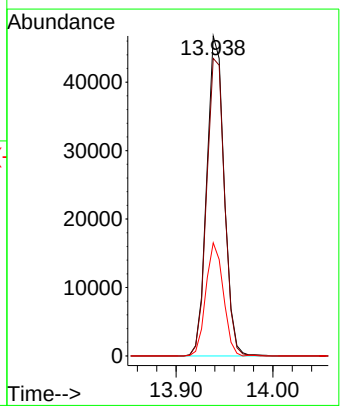
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.593 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:180 Resp: 58409

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.5	17.9	53.7



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 96.800%			
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.600%			
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 98.860%			
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707 ug/l		100
42) 1,2-Dichloroethane	6.074	62	179037	51.431 ug/l		100
43) Isopropyl Acetate	6.324	43	275572	52.096 ug/l		100
44) Trichloroethene	7.111	130	113832	51.463 ug/l		100
45) 1,2-Dichloropropane	7.415	63	122109	52.122 ug/l		100
46) Dibromomethane	7.568	93	88505	51.914 ug/l		100
47) Bromodichloromethane	7.806	83	186540	53.025 ug/l		100
48) Methyl methacrylate	7.678	41	138167	52.438 ug/l		100
49) 1,4-Dioxane	7.647	88	29496	1107.698 ug/l		100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650 ug/l		100
52) Toluene	8.702	92	288853	51.244 ug/l		100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027 ug/l		100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369 ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915 ug/l		100
56) Ethyl methacrylate	9.104	69	184087	53.930 ug/l		100
57) 1,3-Dichloropropane	9.293	76	195989	52.492 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309 ug/l		100
59) 2-Hexanone	9.415	43	553313	262.683 ug/l		100
60) Dibromochloromethane	9.506	129	133737	53.401 ug/l		100
61) 1,2-Dibromoethane	9.592	107	116462	52.607 ug/l		100
64) Tetrachloroethene	9.257	164	88149	50.074 ug/l		100
65) Chlorobenzene	10.061	112	317982	51.833 ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835 ug/l		100
67) Ethyl Benzene	10.177	91	550610	52.017 ug/l		100
68) m/p-Xylenes	10.287	106	412932	104.809 ug/l		100
69) o-Xylene	10.622	106	202291	53.084 ug/l		100
70) Styrene	10.640	104	350654	52.515 ug/l		100
71) Bromoform	10.781	173	84485	53.447 ug/l	#	100
73) Isopropylbenzene	10.945	105	516891	53.227 ug/l		100
74) N-amyl acetate	10.829	43	237846	53.710 ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251 ug/l		100
76) 1,2,3-Trichloropropane	11.220	75	144074m	54.322 ug/l		
77) Bromobenzene	11.183	156	126174	52.754 ug/l		100
78) n-propylbenzene	11.287	91	612035	53.315 ug/l		100
79) 2-Chlorotoluene	11.348	91	372397	52.965 ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190 ug/l		100
82) 4-Chlorotoluene	11.439	91	438502	52.806 ug/l		100
83) tert-Butylbenzene	11.695	119	429107	52.539 ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798 ug/l		100
85) sec-Butylbenzene	11.872	105	514442	53.029 ug/l		100
86) p-Isopropyltoluene	11.994	119	436704	53.172 ug/l		100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232 ug/l		100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316 ug/l		100
89) n-Butylbenzene	12.311	91	400997	52.766 ug/l		100
90) Hexachloroethane	12.518	117	75800	52.567 ug/l		100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554 ug/l		100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685 ug/l		100
94) Hexachlorobutadiene	13.707	225	49061	52.510 ug/l		100
95) Naphthalene	13.756	128	452013	53.966 ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316 ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

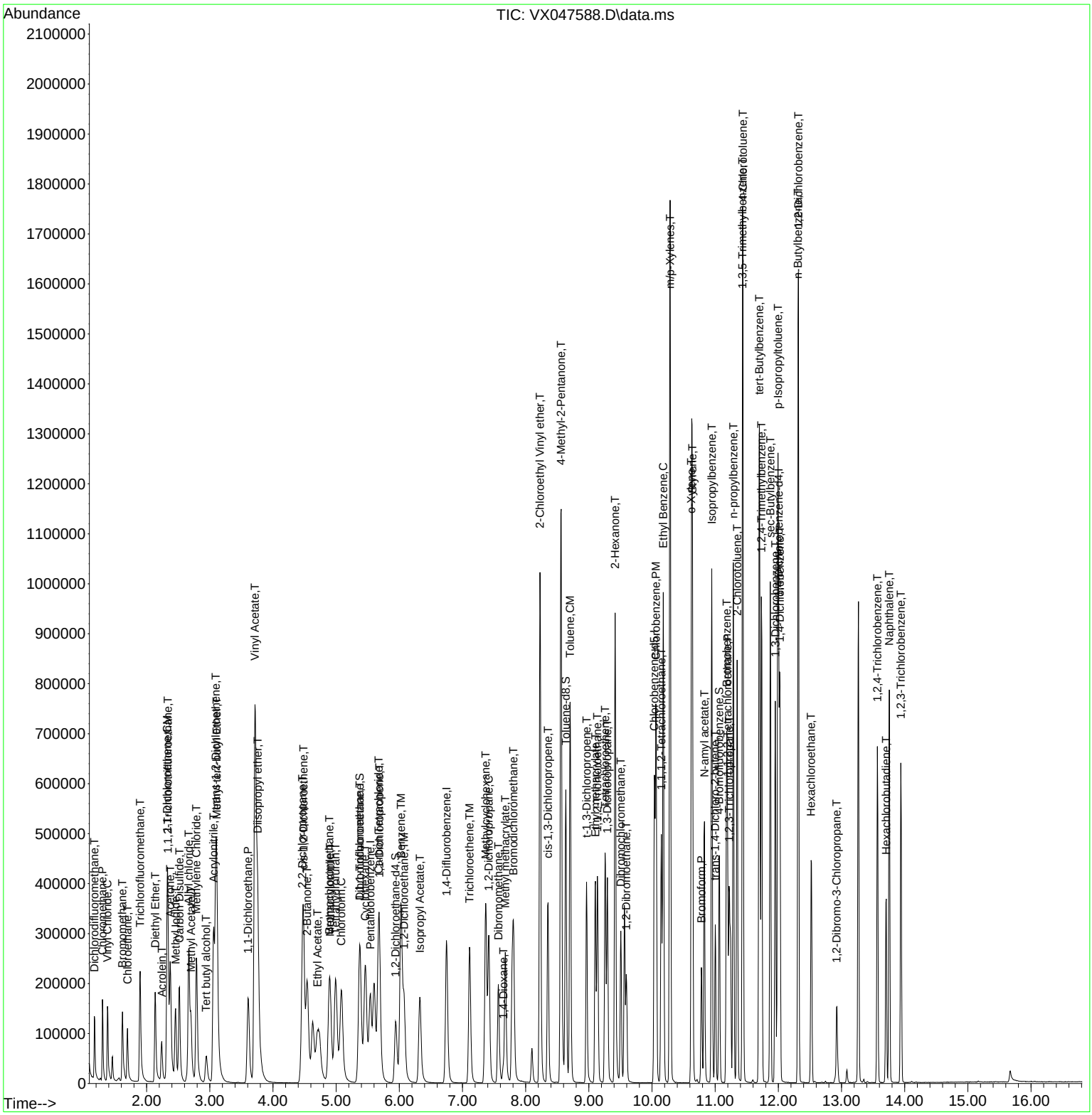
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

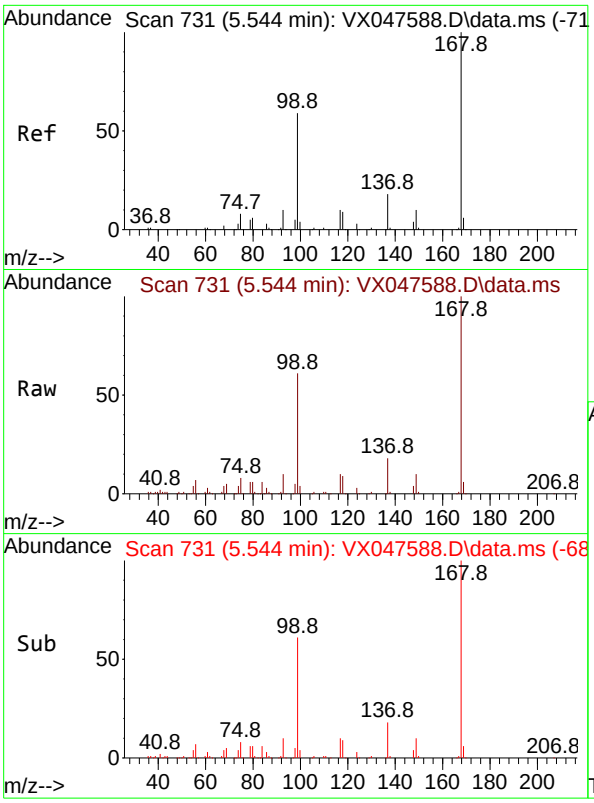
Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

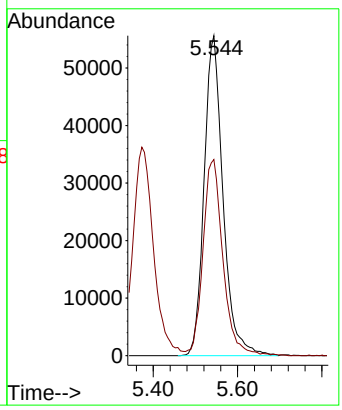




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:168 Resp: 17340

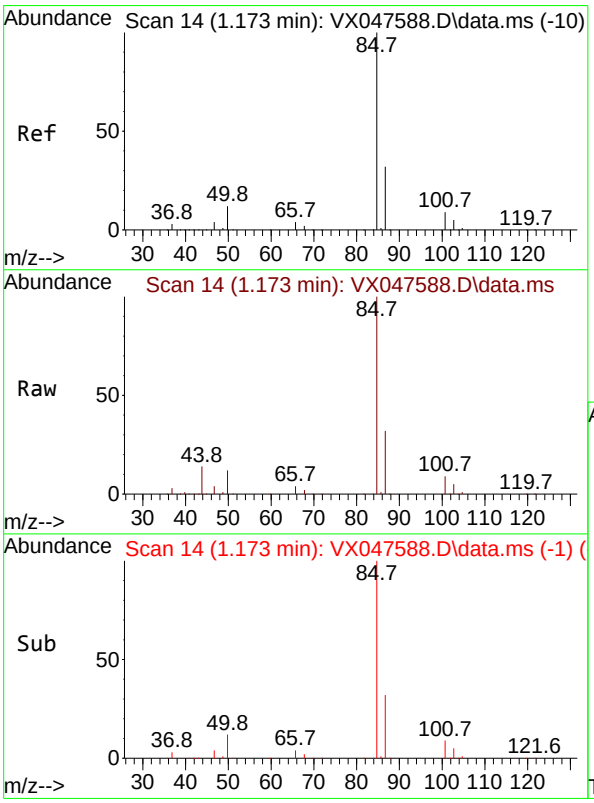
Ion	Ratio	Lower	Upper
168	100		
99	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

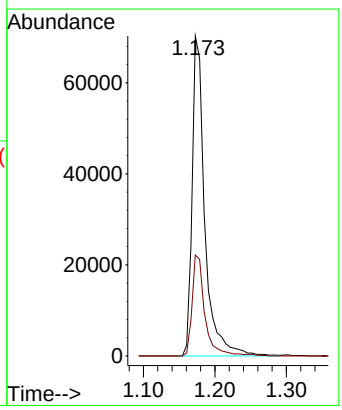
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

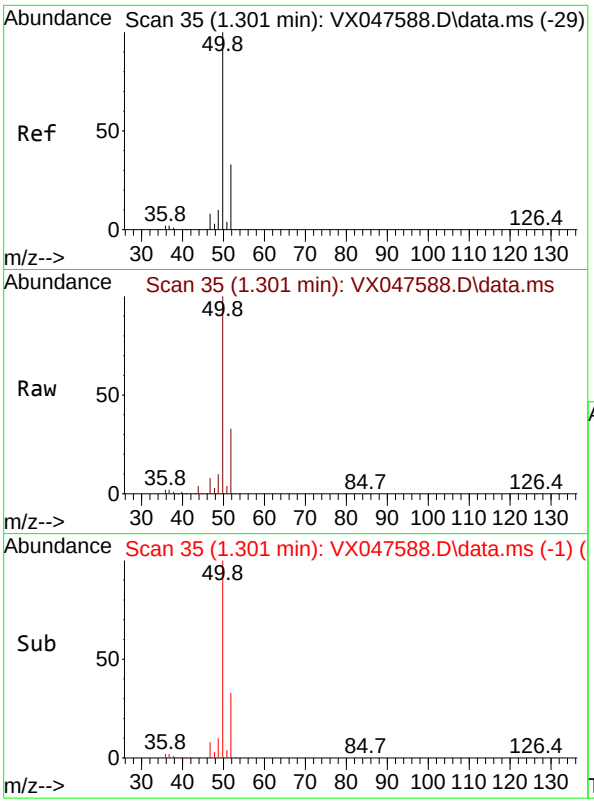


#2
Dichlorodifluoromethane
Concen: 48.352 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 85 Resp: 86824

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.8	47.3

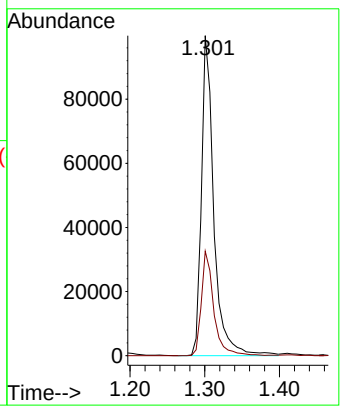




#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 50 Resp: 11468

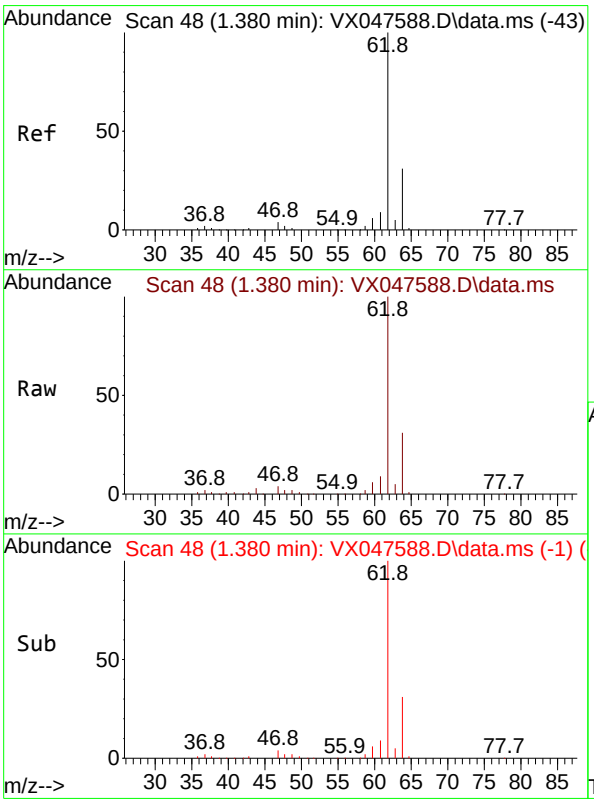
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

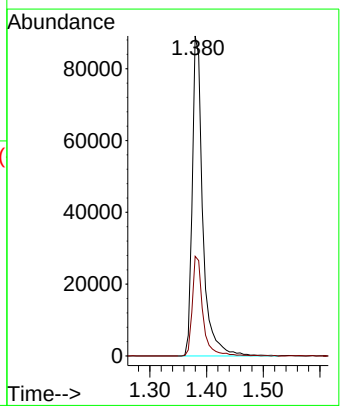
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

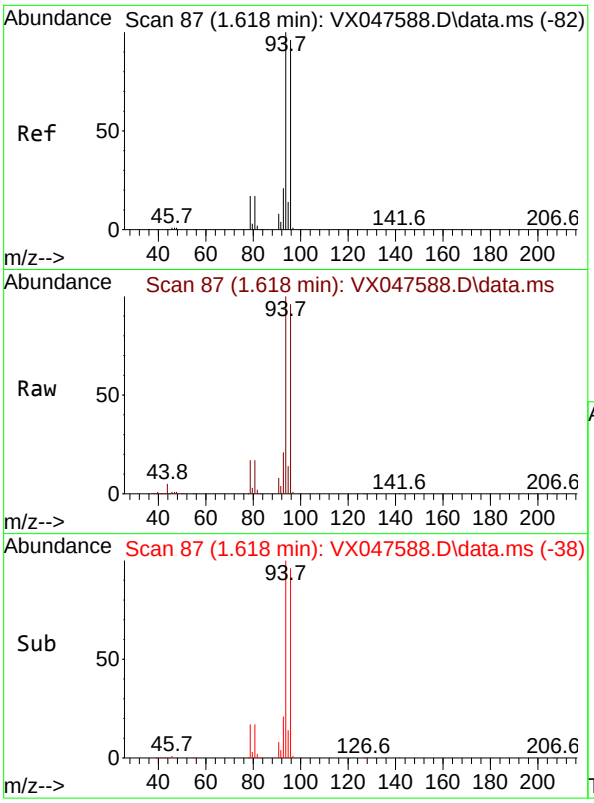


#4
Vinyl Chloride
Concen: 49.635 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 114666

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

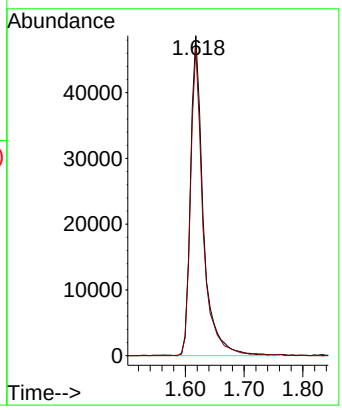




#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 94 Resp: 7356

Ion	Ratio	Lower	Upper
94	100		
96	95.8	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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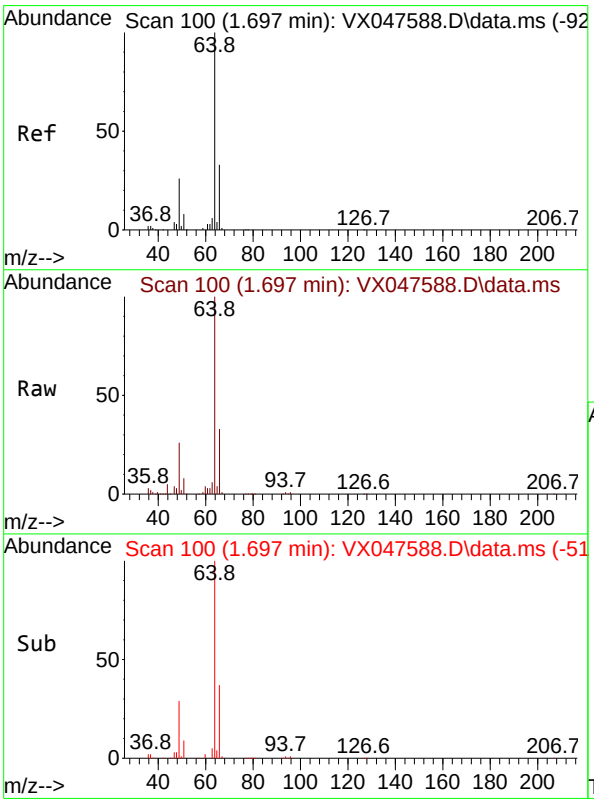
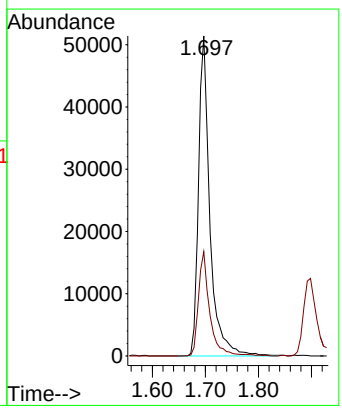
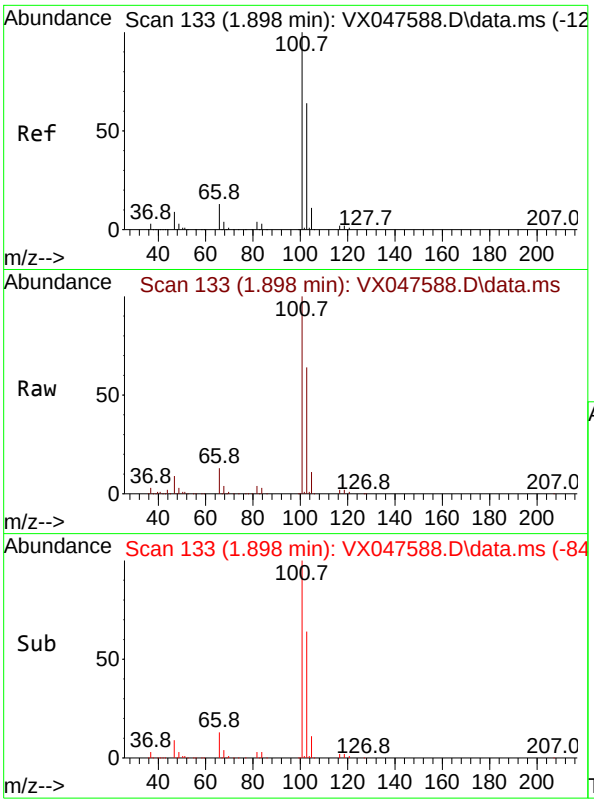


#6
Chloroethane
Concen: 49.698 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 64 Resp: 76736

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.1	39.1

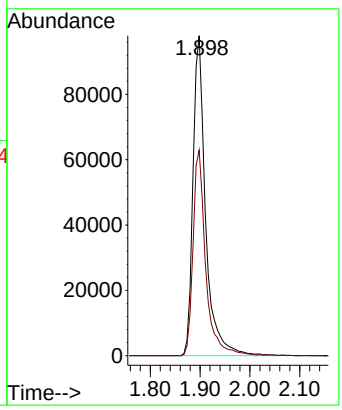




#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:101 Resp: 17256

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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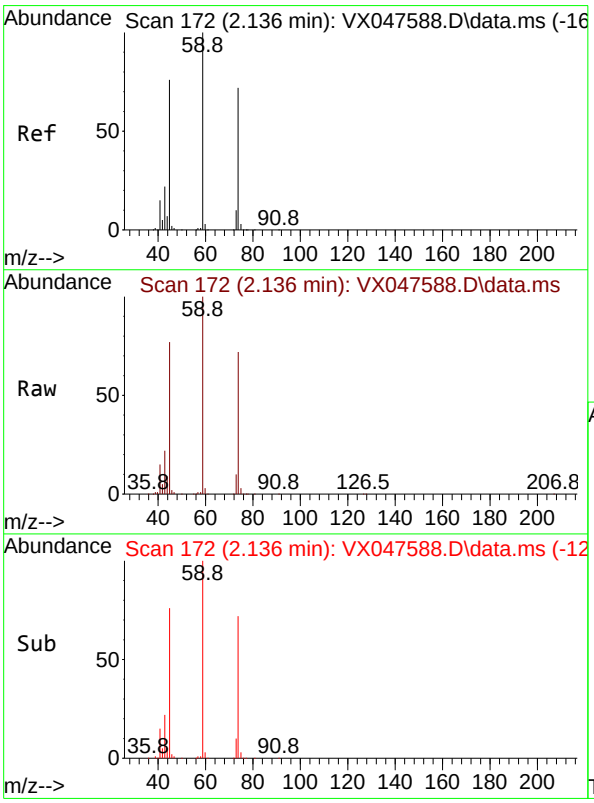
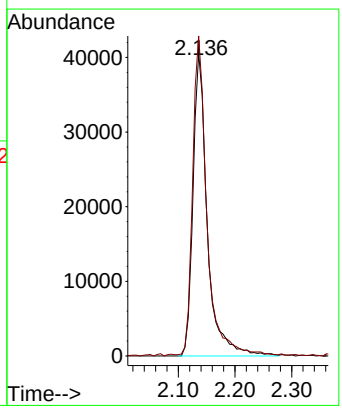
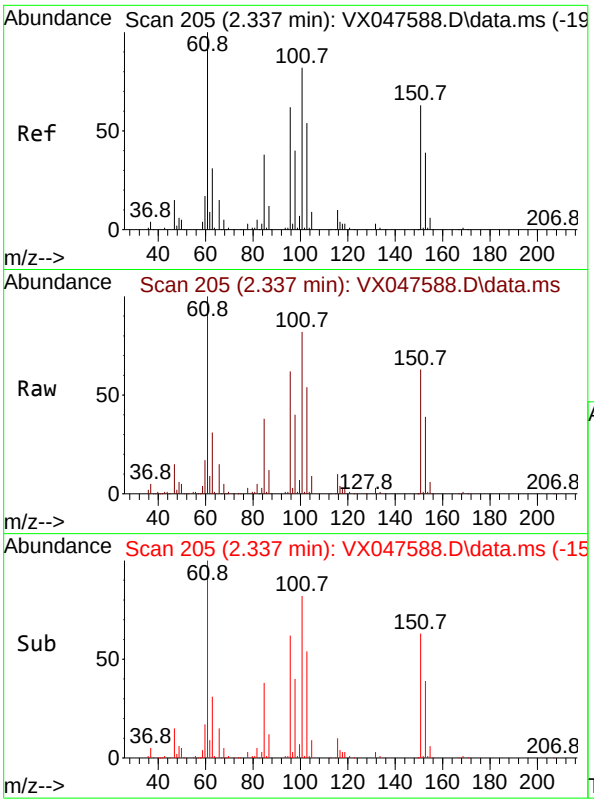


#8
Diethyl Ether
Concen: 50.510 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 74 Resp: 70874

Ion	Ratio	Lower	Upper
74	100		
45	104.5	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.445 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:101 Resp: 10117

Ion	Ratio	Lower	Upper
101	100		
85	44.4	35.5	53.3
151	74.2	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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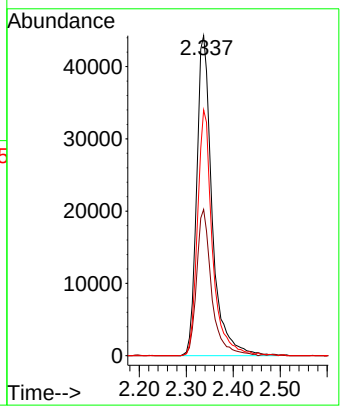
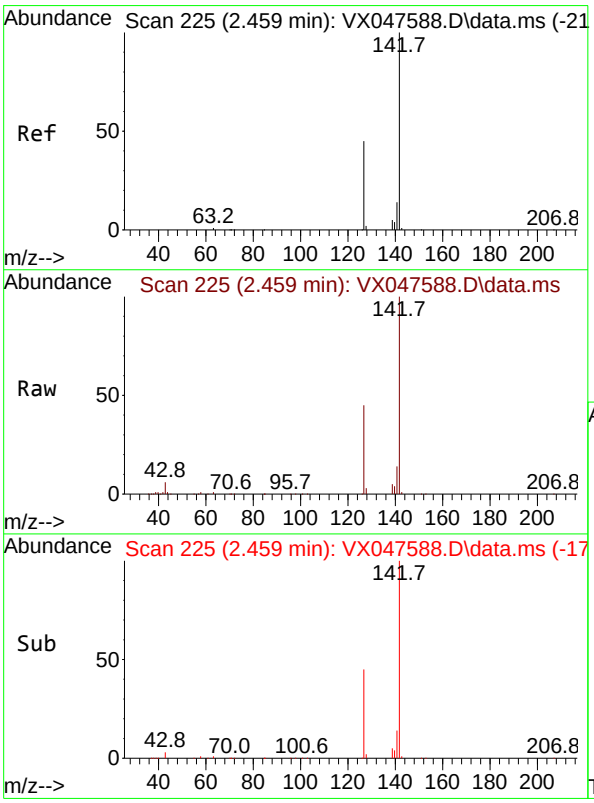
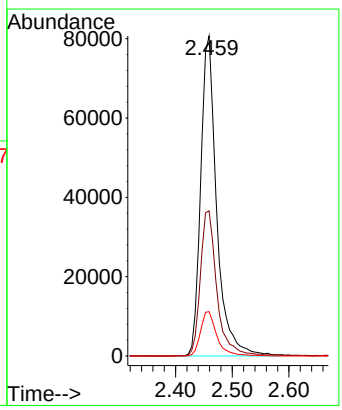


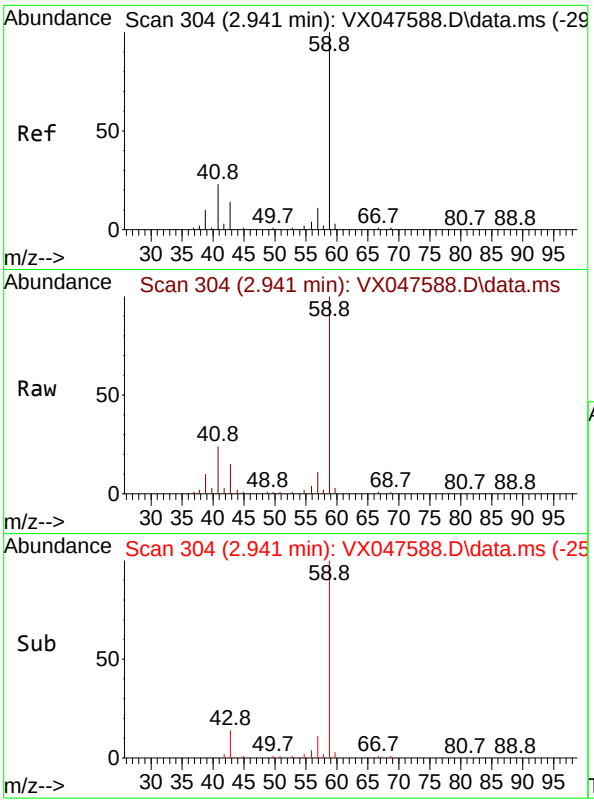


#10
Methyl Iodide
Concen: 50.525 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:142 Resp: 158046

Ion	Ratio	Lower	Upper
142	100		
127	46.5	37.2	55.8
141	14.2	11.4	17.0

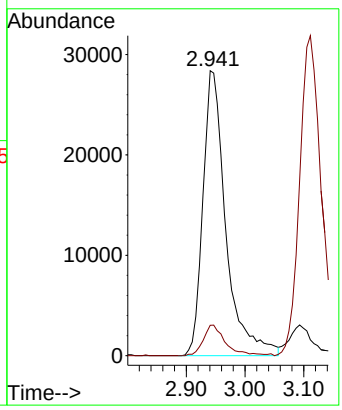




#11
Tert butyl alcohol
Concen: 251.232 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 59 Resp: 7723

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



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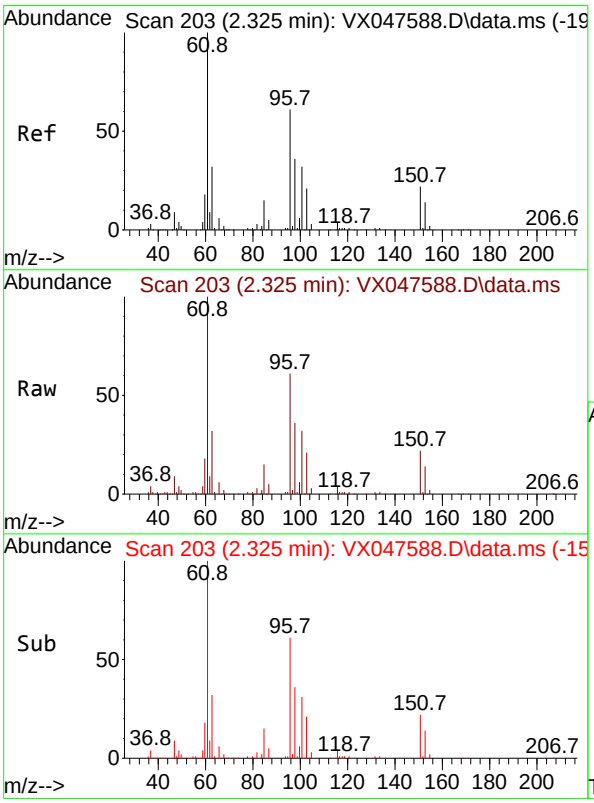
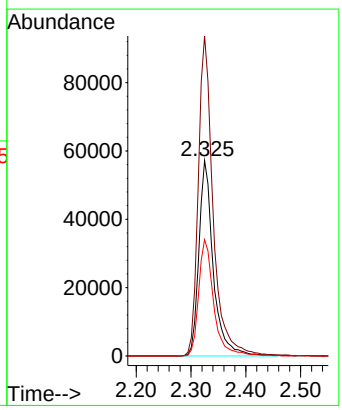
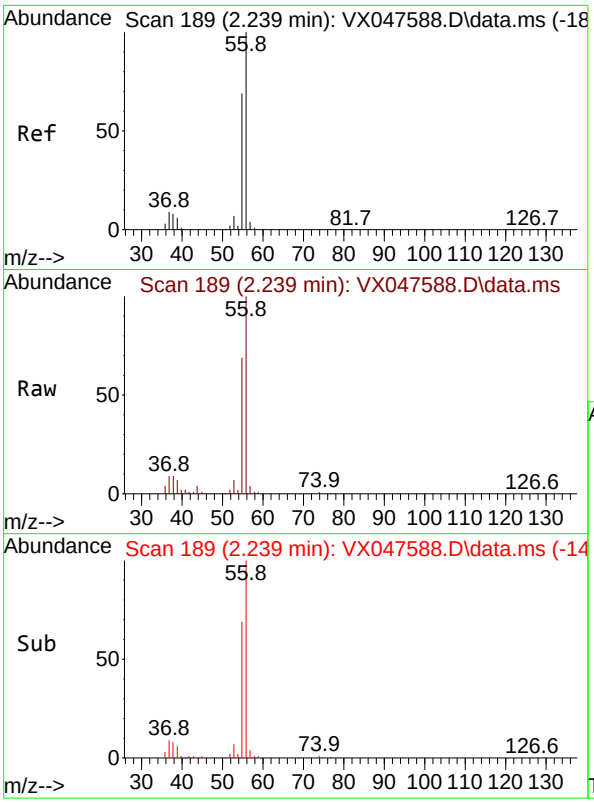


#12
1,1-Dichloroethene
Concen: 50.831 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 104724

Ion	Ratio	Lower	Upper
96	100		
61	163.8	131.0	196.6
98	59.6	47.7	71.5

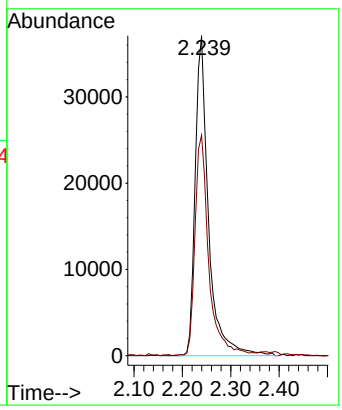




#13
Acrolein
Concen: 249.645 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 56 Resp: 7072

Ion	Ratio	Lower	Upper
56	100		
55	71.5	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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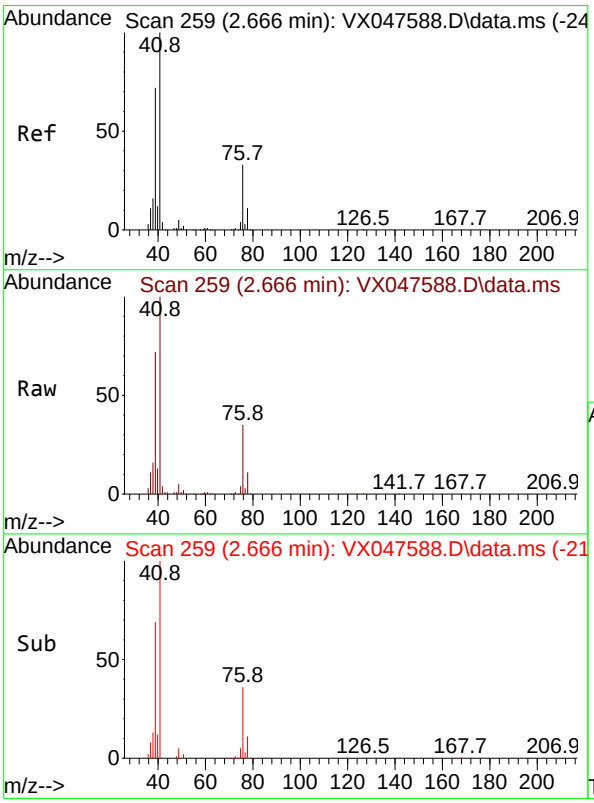
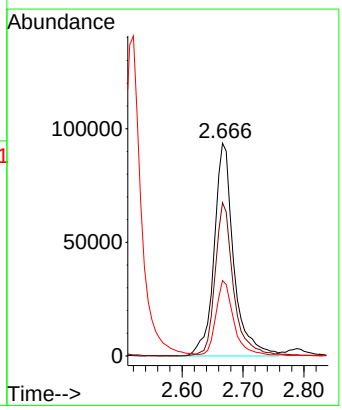
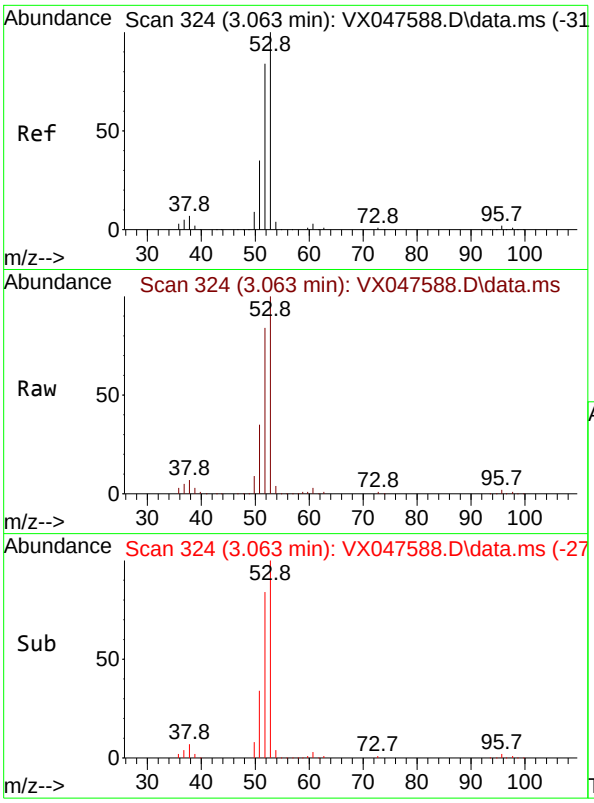


#14
Allyl chloride
Concen: 49.396 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 210001

Ion	Ratio	Lower	Upper
41	100		
39	68.4	54.7	82.1
76	32.1	25.7	38.5

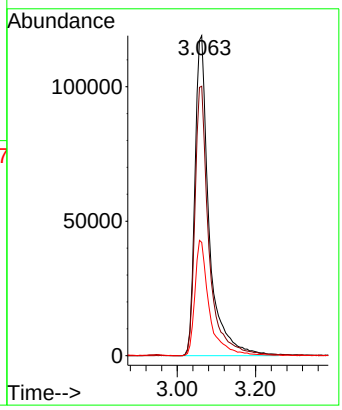




#15
Acrylonitrile
Concen: 264.027 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 53 Resp: 30064

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.4	99.6
51	36.9	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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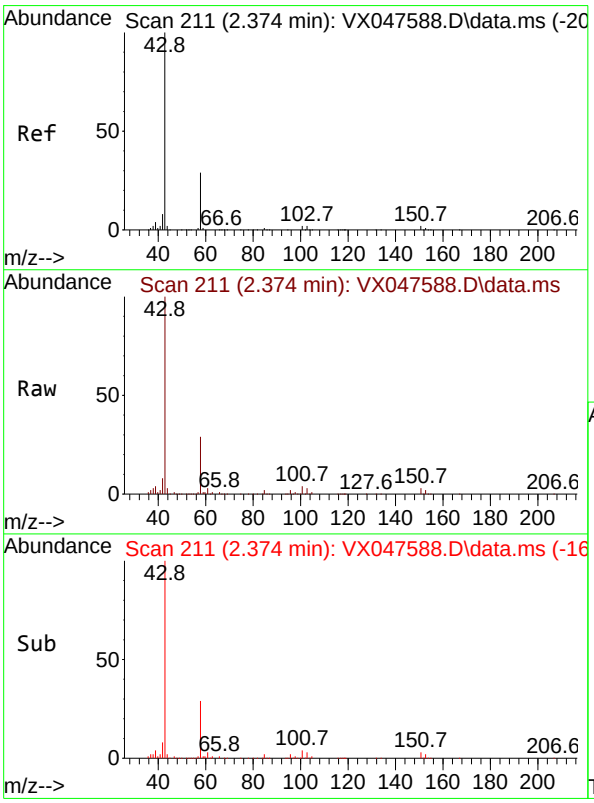
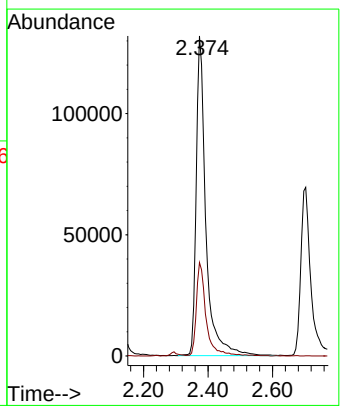
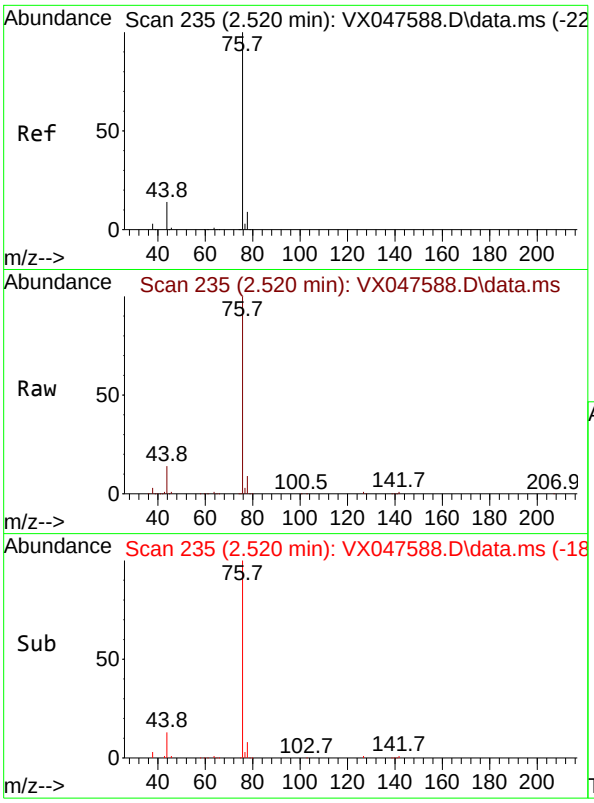


#16
Acetone
Concen: 229.193 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 275065

Ion	Ratio	Lower	Upper
43	100		
58	29.2	23.4	35.0

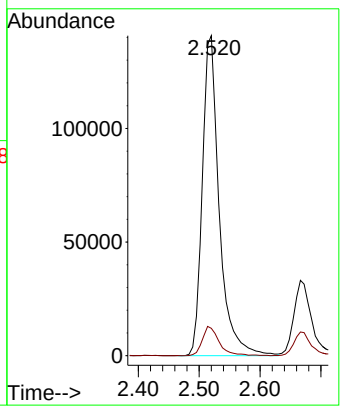




#17
Carbon Disulfide
Concen: 48.133 ug/l
RT: 2.520 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 76 Resp: 27148

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
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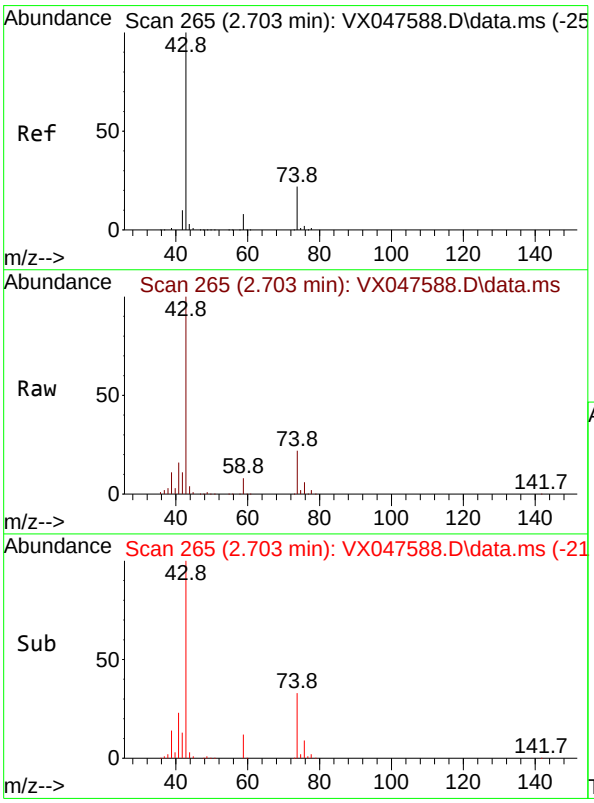
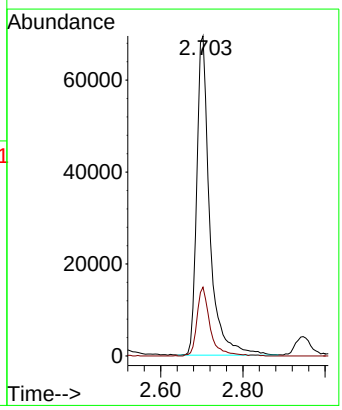
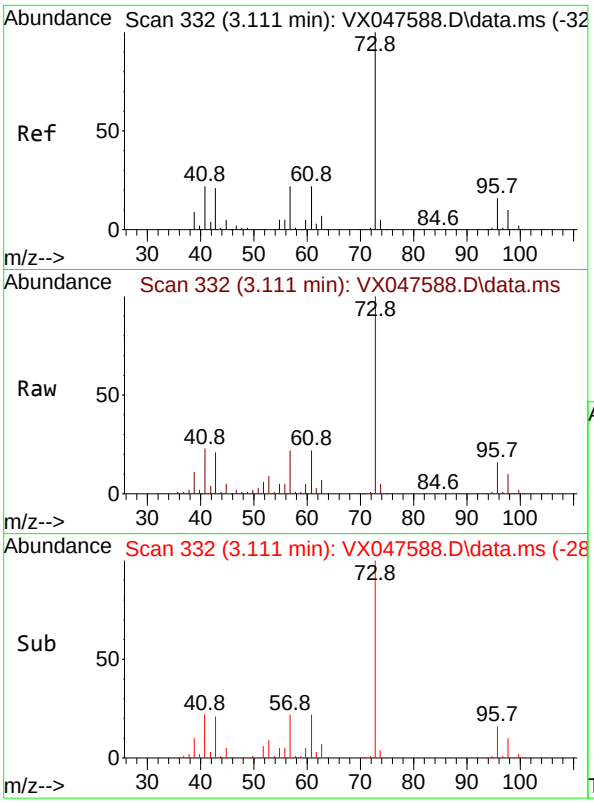


#18
Methyl Acetate
Concen: 56.897 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 151968

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

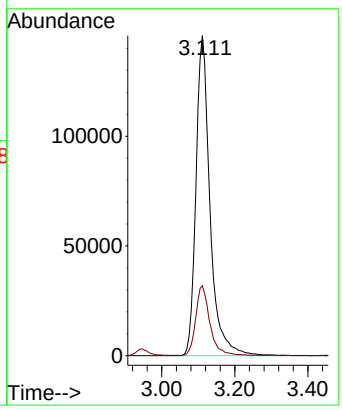




#19
Methyl tert-butyl Ether
Concen: 51.804 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 73 Resp: 38960

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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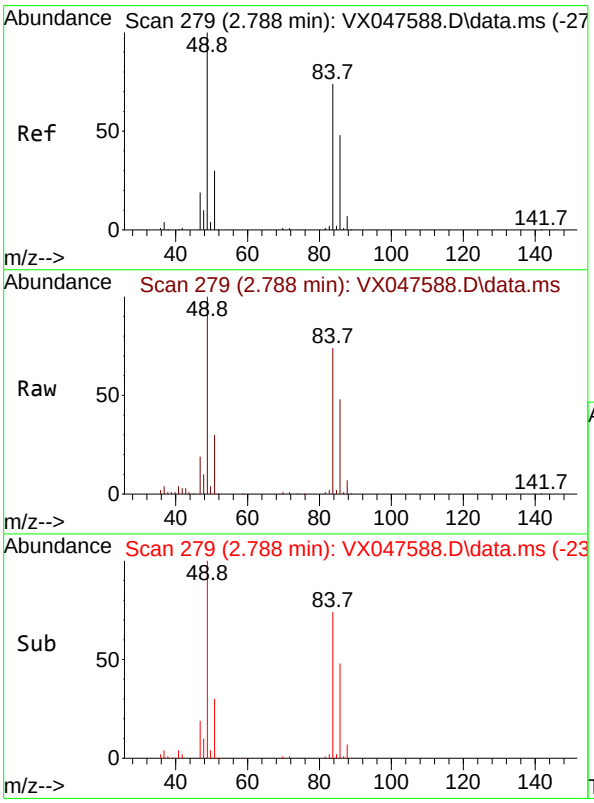
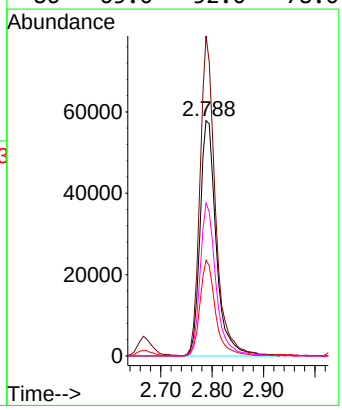
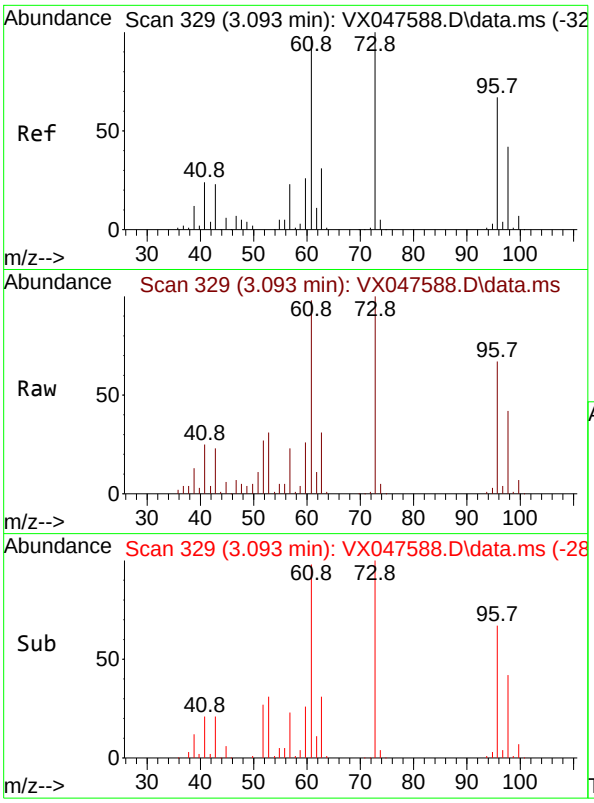


#20
Methylene Chloride
Concen: 49.798 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 84 Resp: 126506

Ion	Ratio	Lower	Upper
84	100		
49	135.7	108.6	162.8
51	40.7	32.6	48.8
86	65.0	52.0	78.0

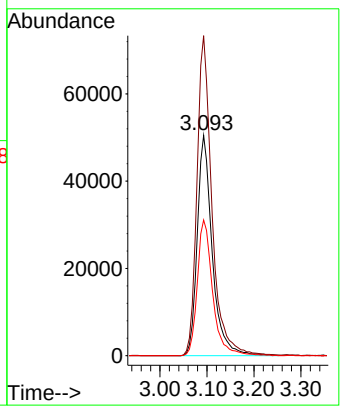




#21
trans-1,2-Dichloroethene
Concen: 50.743 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 11255

Ion	Ratio	Lower	Upper
96	100		
61	145.2	116.2	174.2
98	61.6	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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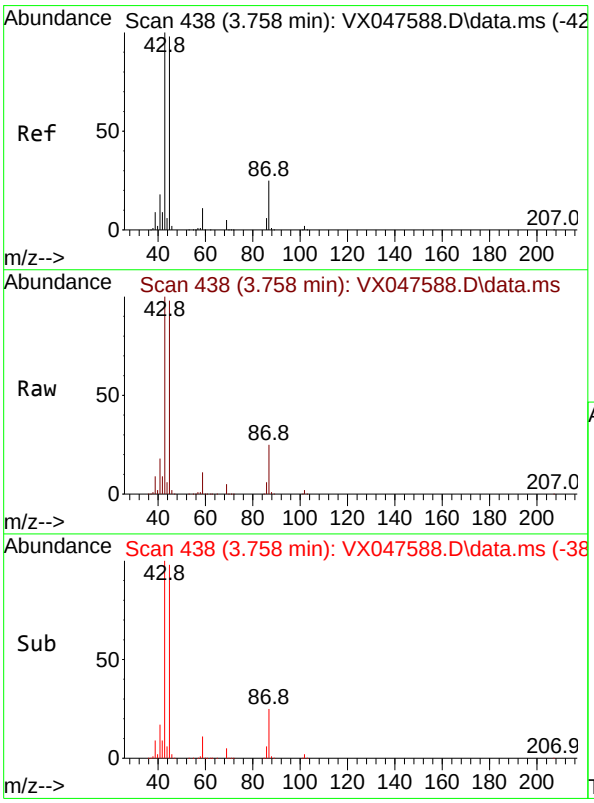
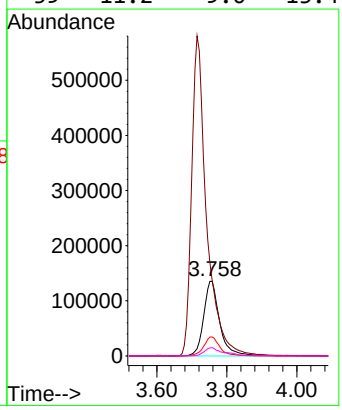
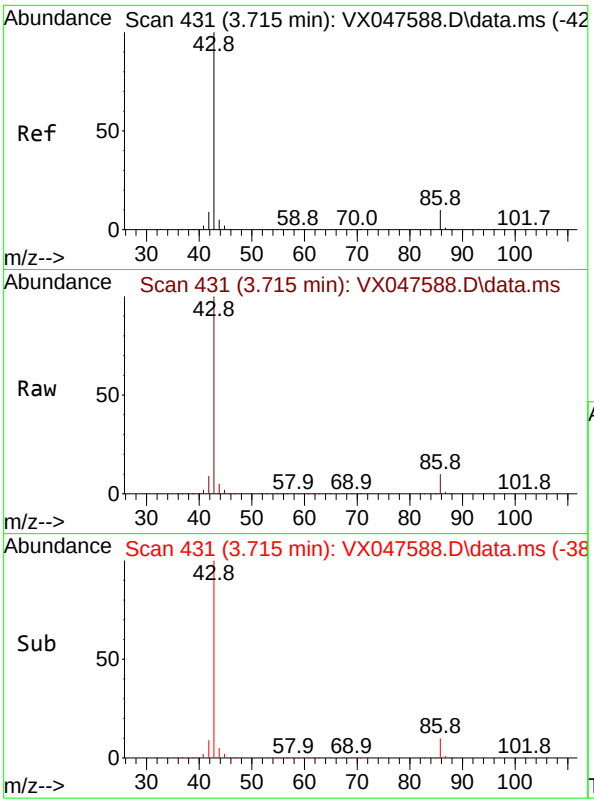


#22
Diisopropyl ether
Concen: 52.131 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 45 Resp: 429524

Ion	Ratio	Lower	Upper
45	100		
43	101.2	81.0	121.4
87	25.4	20.3	30.5
59	11.2	9.0	13.4





#23
Vinyl Acetate
Concen: 261.852 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 172673

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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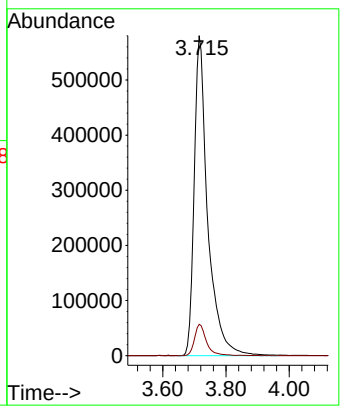
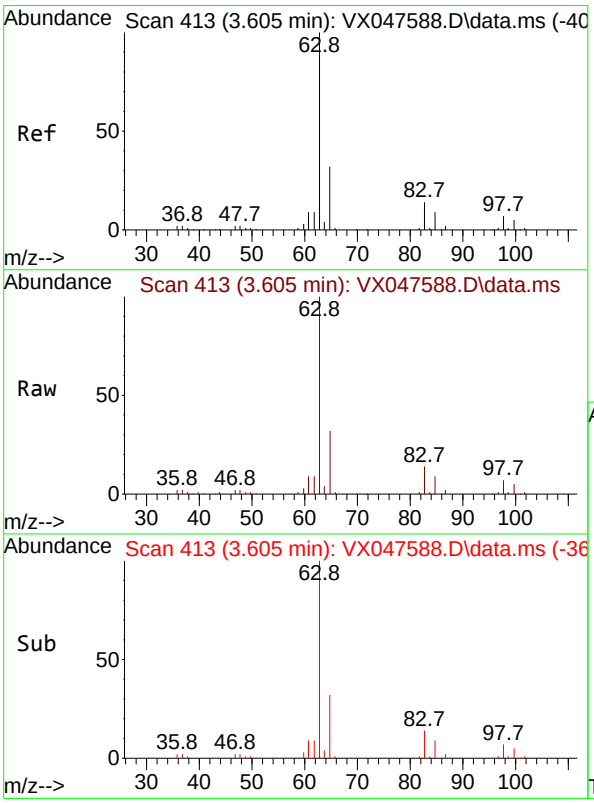
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

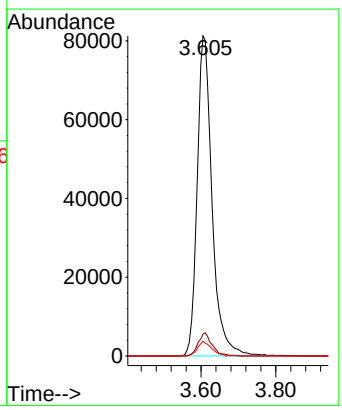


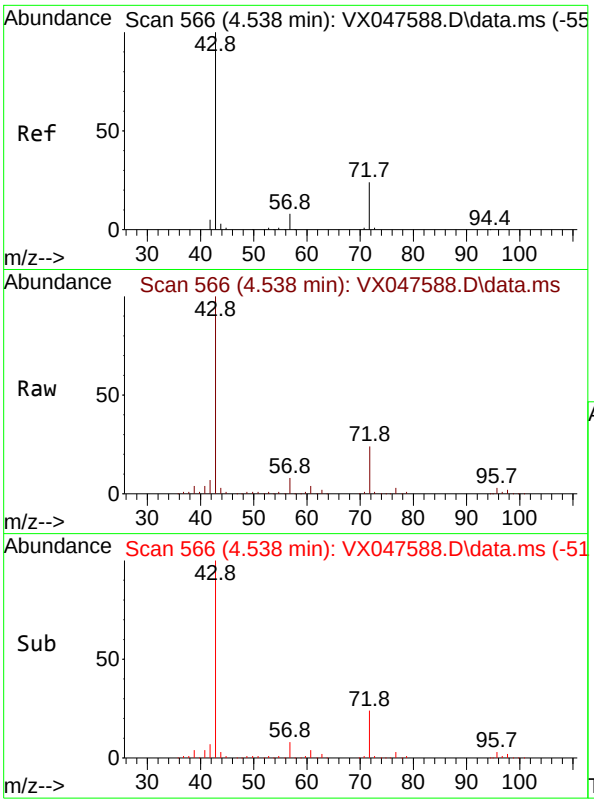


#24
1,1-Dichloroethane
Concen: 51.338 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 224824

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	4.6	2.3	6.9





#25
2-Butanone
Concen: 254.060 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 38033

Ion	Ratio	Lower	Upper
43	100		
72	25.1	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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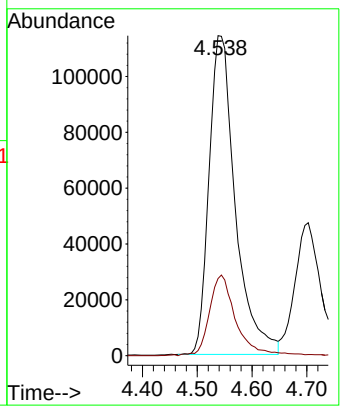
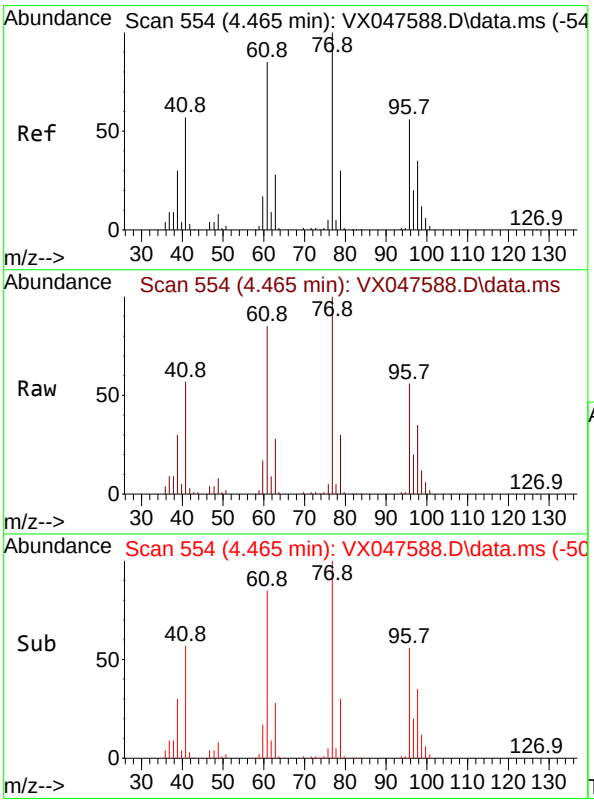
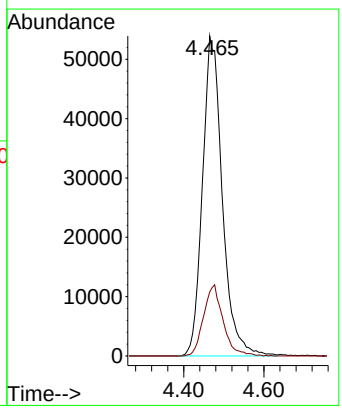


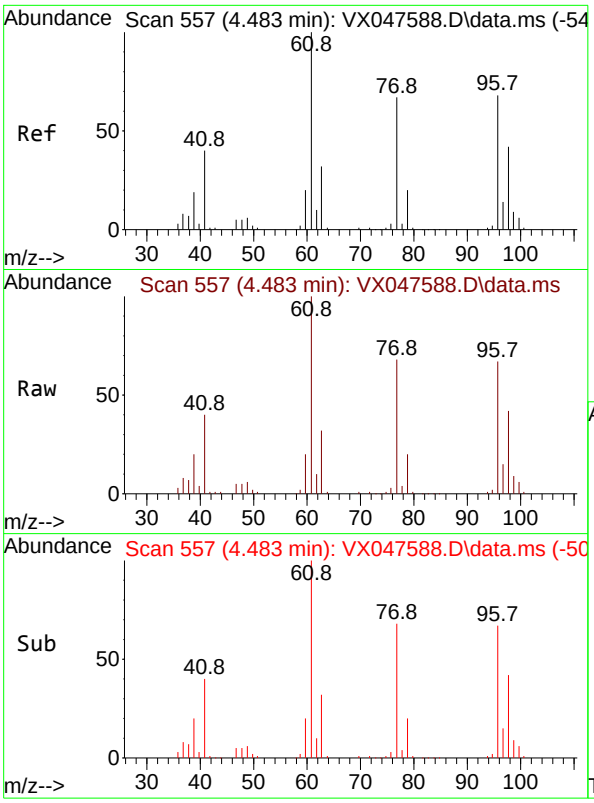


#26
2,2-Dichloropropane
Concen: 50.888 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 77 Resp: 185247

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.9	32.7

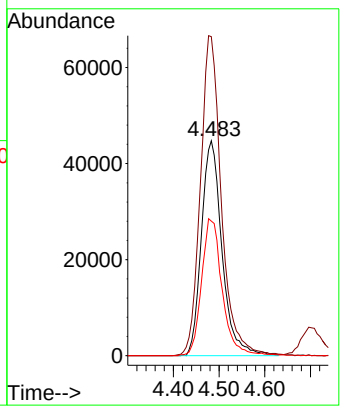




#27
cis-1,2-Dichloroethene
Concen: 51.576 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 96 Resp: 14010

Ion	Ratio	Lower	Upper
96	100		
61	151.6	0.0	303.2
98	63.9	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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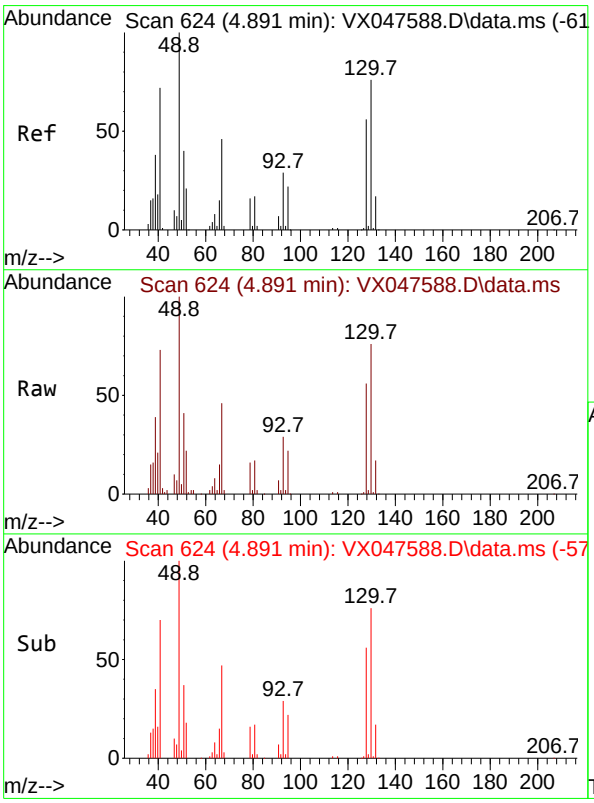
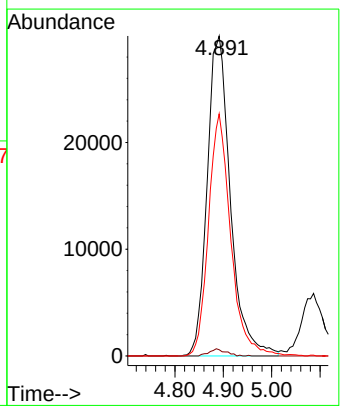
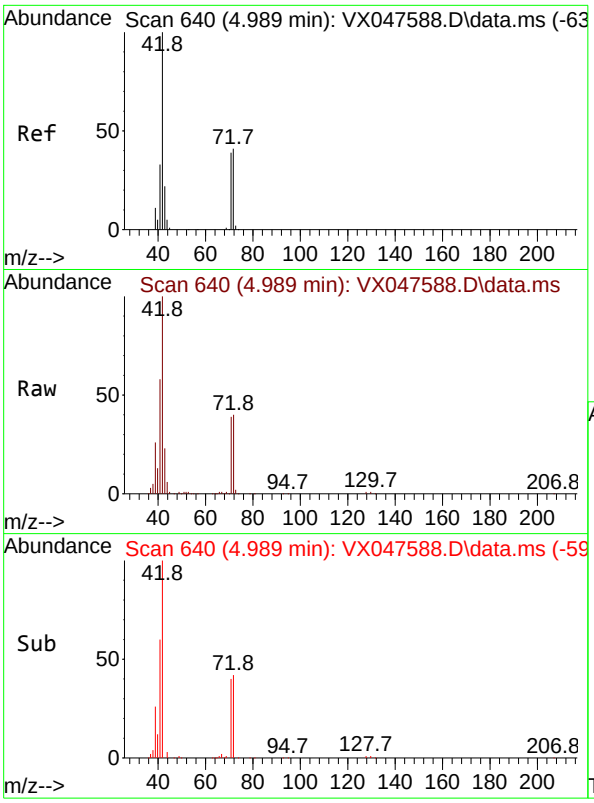


#28
Bromochloromethane
Concen: 52.301 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 49 Resp: 99991

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	72.3	57.8	86.8

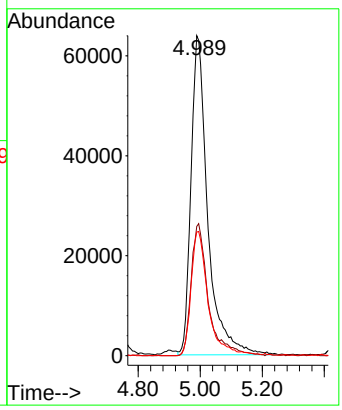




#29
Tetrahydrofuran
Concen: 265.026 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 42 Resp: 23867

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	39.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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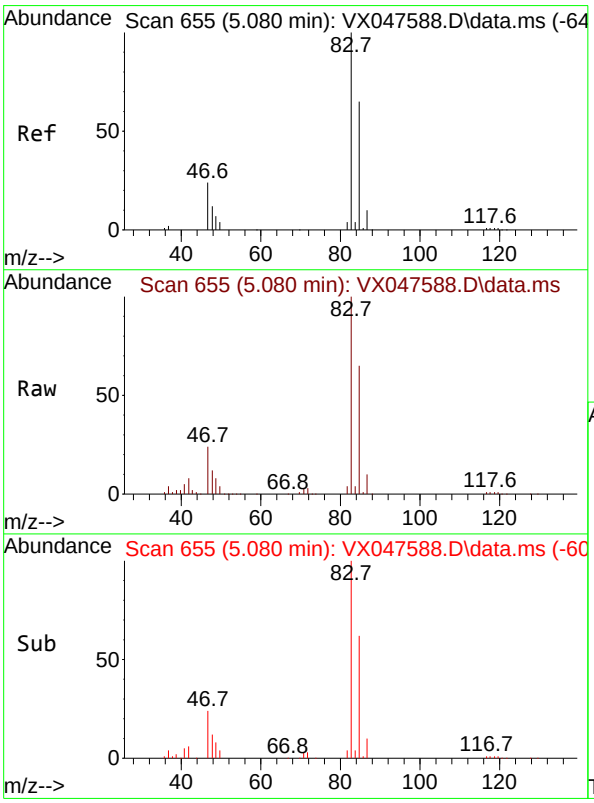
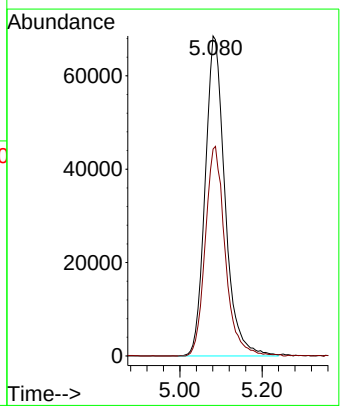
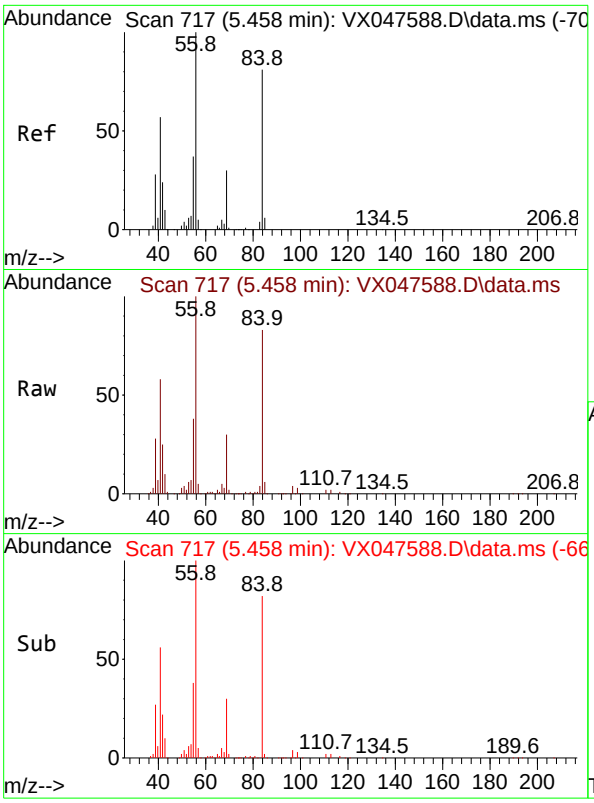


#30
Chloroform
Concen: 51.844 ug/l
RT: 5.080 min Scan# 655
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 229430

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6

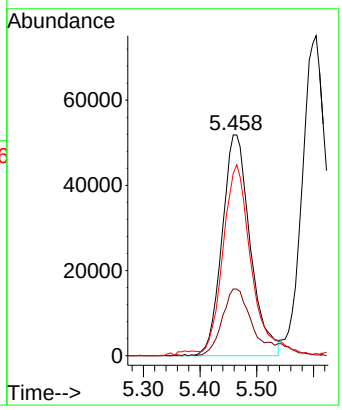




#31
Cyclohexane
Concen: 48.952 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 56 Resp: 17854

Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.8	35.8
84	80.8	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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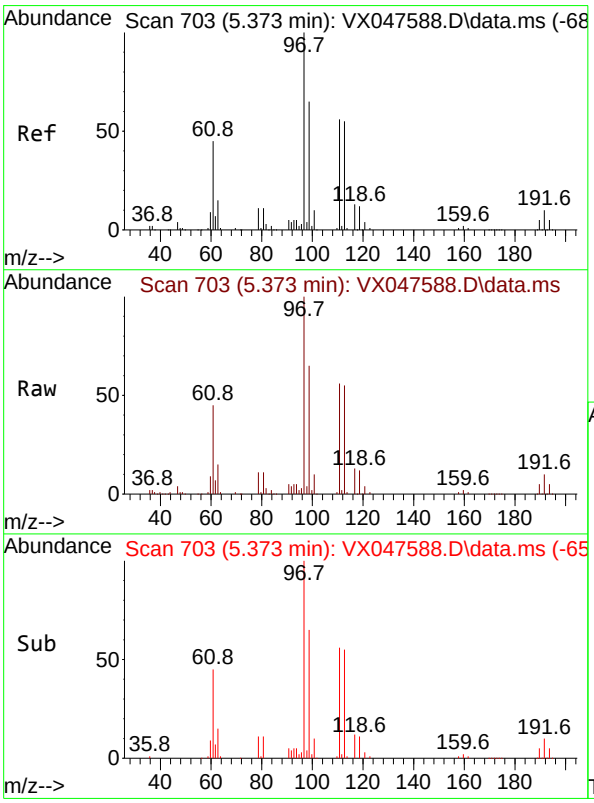
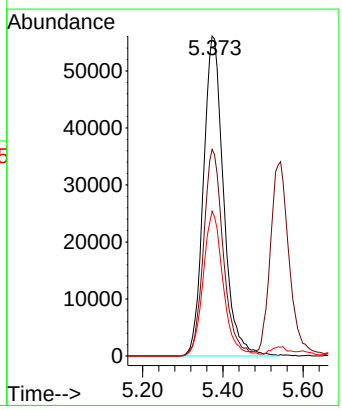
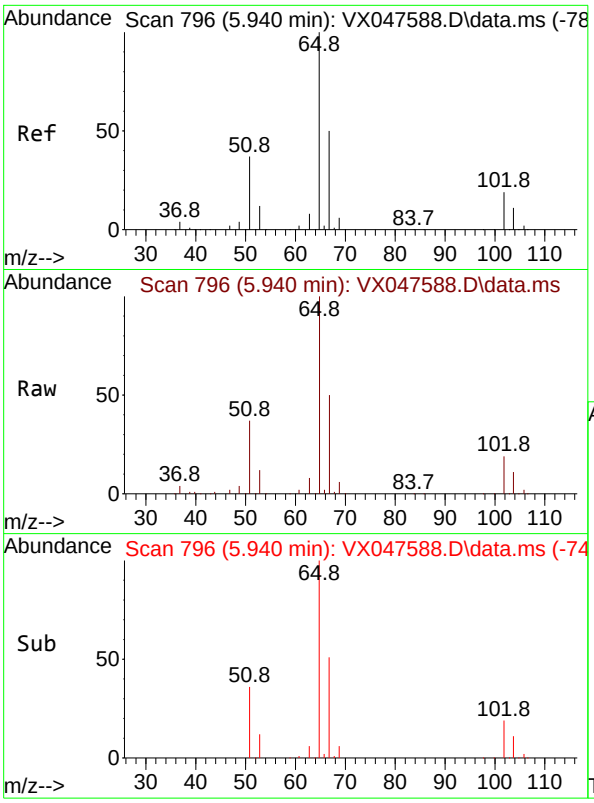


#32
1,1,1-Trichloroethane
Concen: 52.058 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 195407

Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.6	76.0
61	44.8	35.8	53.8

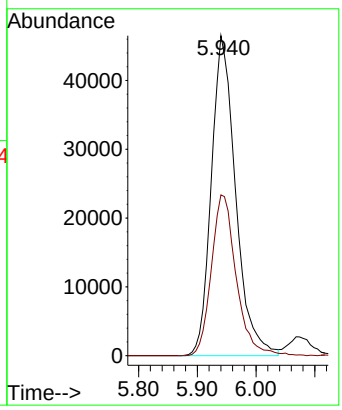




#33
1,2-Dichloroethane-d4
Concen: 48.404 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 65 Resp: 13360

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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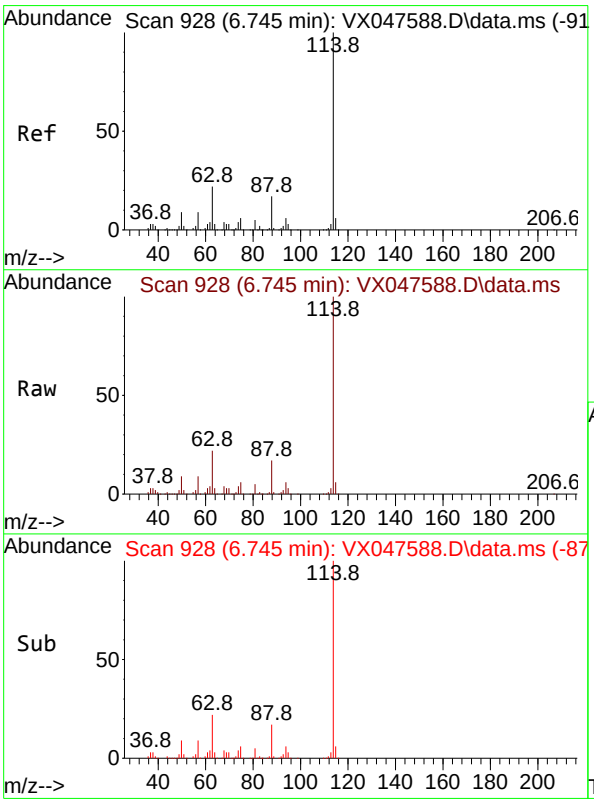
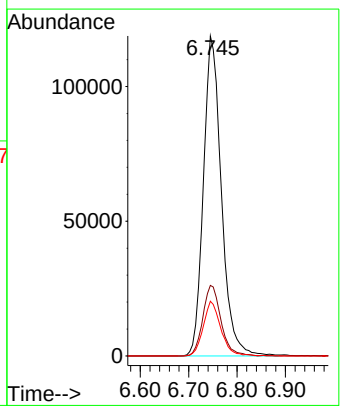
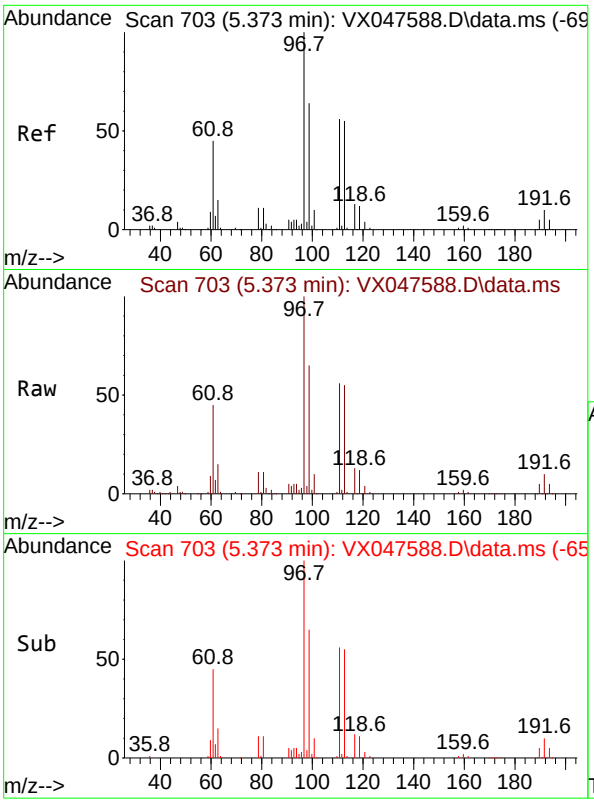


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:114 Resp: 307383

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

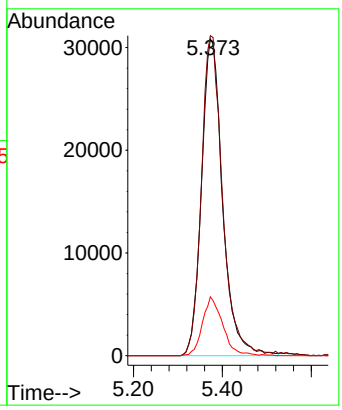




#35
Dibromofluoromethane
Concen: 49.298 ug/l
RT: 5.373 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:113 Resp: 10162

Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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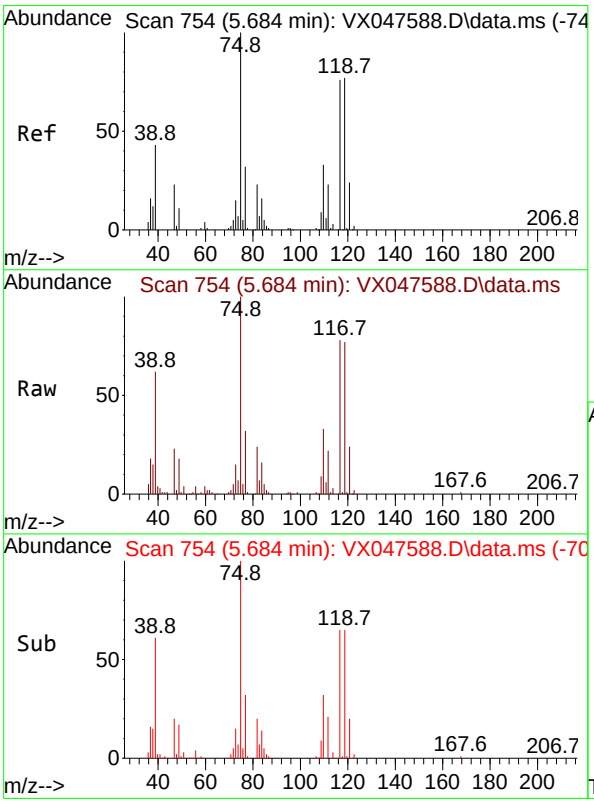
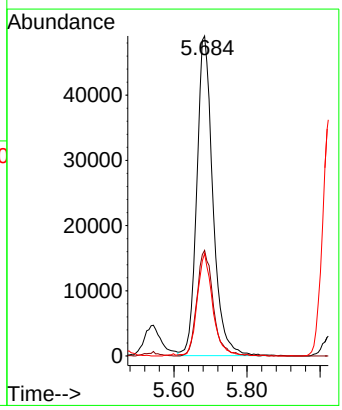
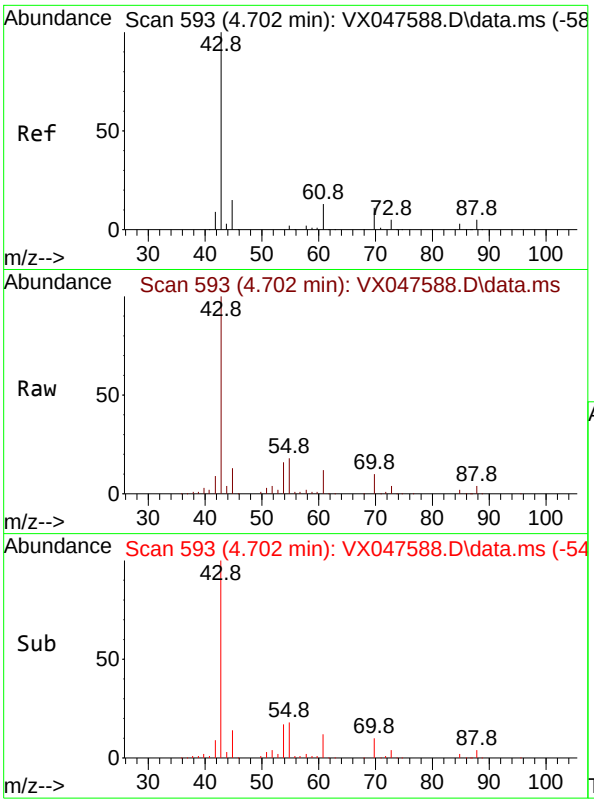


#36
1,1-Dichloropropene
Concen: 49.729 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 149800

Ion	Ratio	Lower	Upper
75	100		
110	33.4	16.7	50.1
77	30.4	24.3	36.5





#37
Ethyl Acetate
Concen: 50.687 ug/l
RT: 4.702 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 16348

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	9.9	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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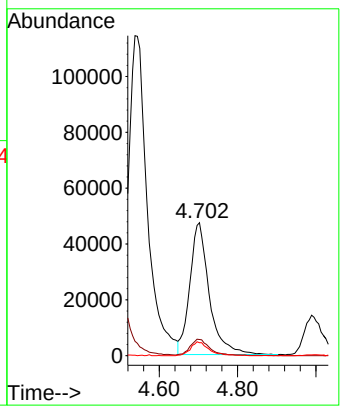
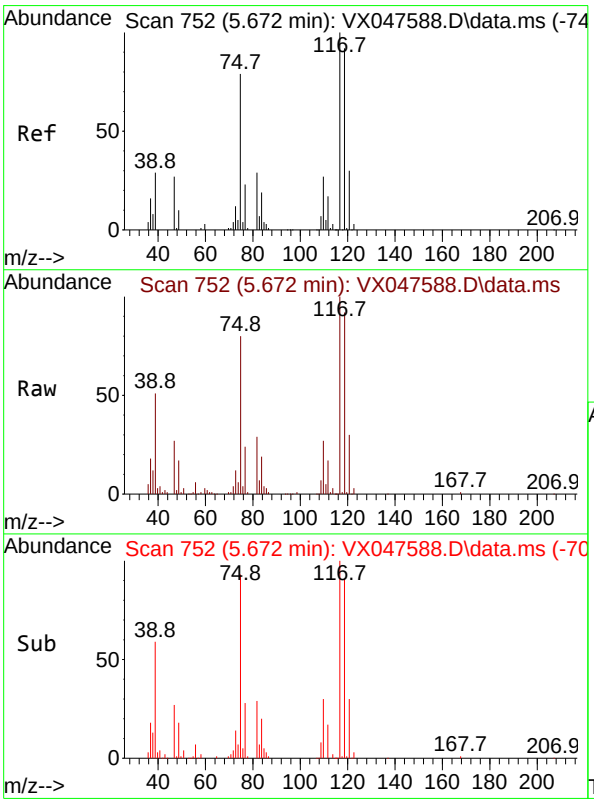
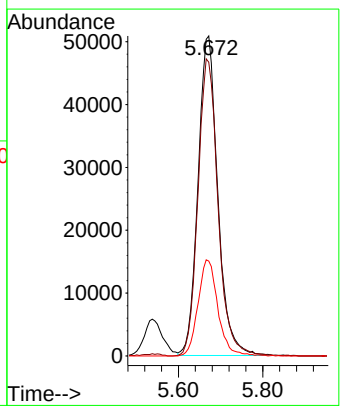


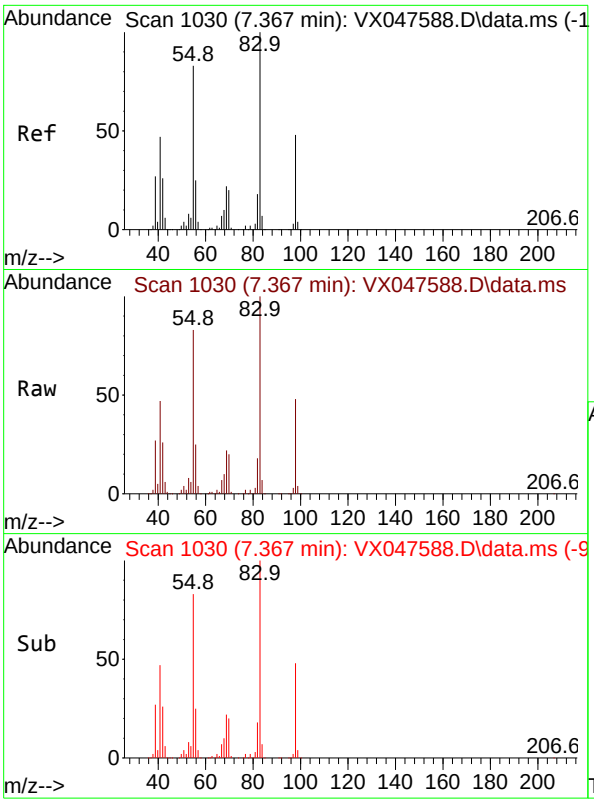


#38
Carbon Tetrachloride
Concen: 50.637 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 165730

Ion	Ratio	Lower	Upper
117	100		
119	91.8	73.4	110.2
121	29.7	23.8	35.6

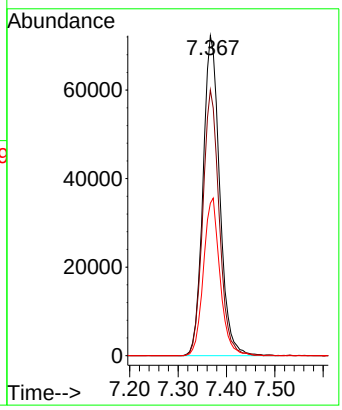




#39
Methylcyclohexane
Concen: 50.773 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 17361

Ion	Ratio	Lower	Upper
83	100		
55	83.0	66.4	99.6
98	47.6	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
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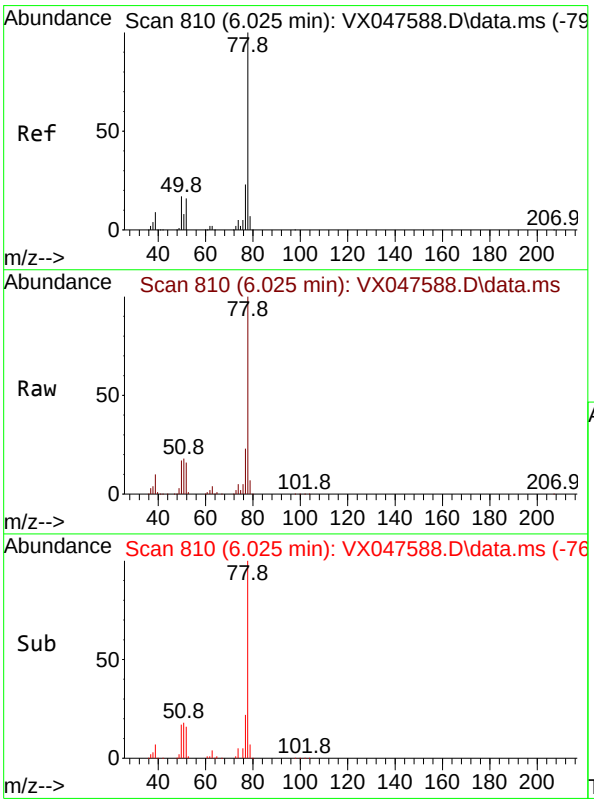
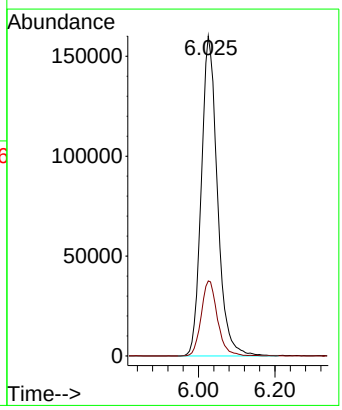
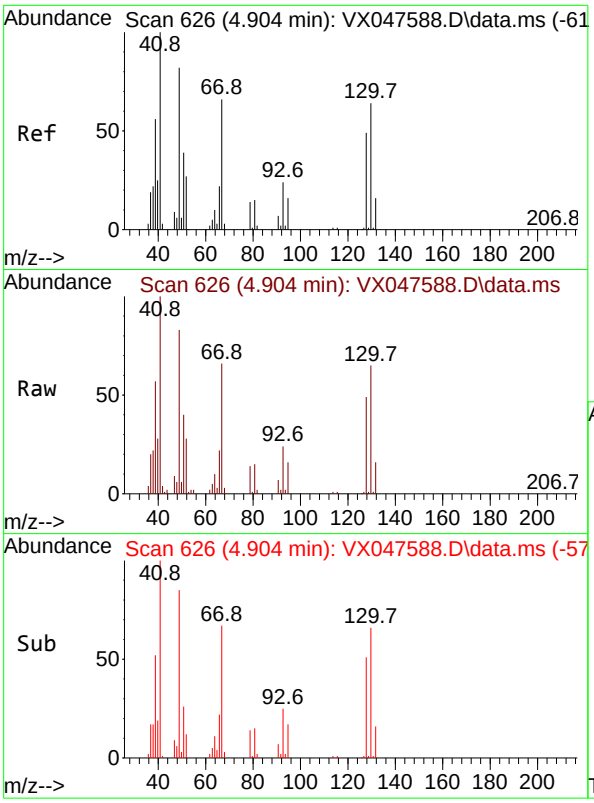


#40
Benzene
Concen: 51.167 ug/l
RT: 6.025 min Scan# 810
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 78 Resp: 468136

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

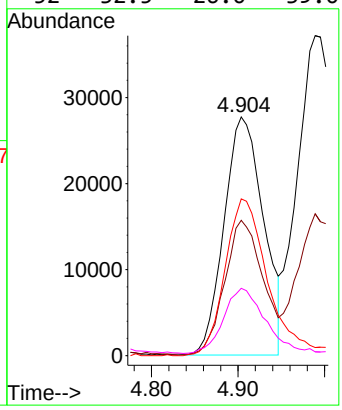




#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 8776

Ion	Ratio	Lower	Upper
41	100		
39	54.1	43.3	64.9
67	73.2	58.6	87.8
52	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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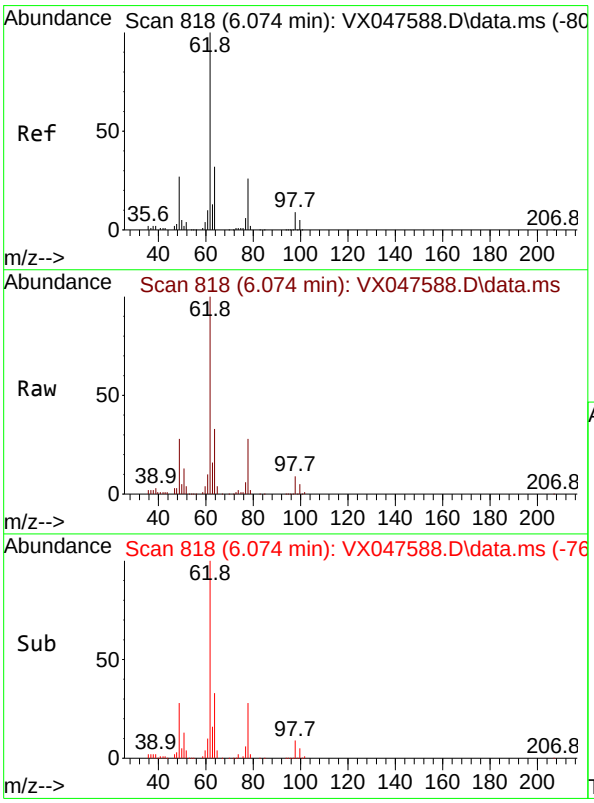
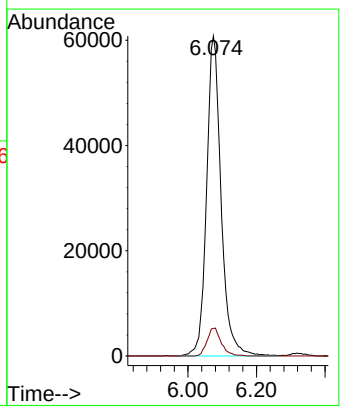
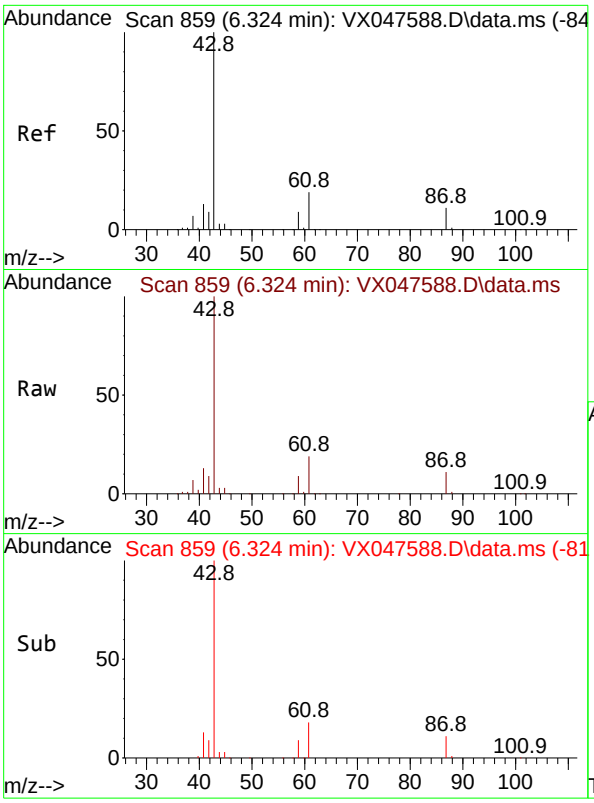


#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 179037

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0





#43
Isopropyl Acetate
Concen: 52.096 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

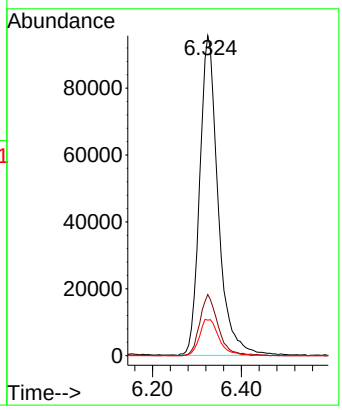
Tgt Ion: 43 Resp: 27557

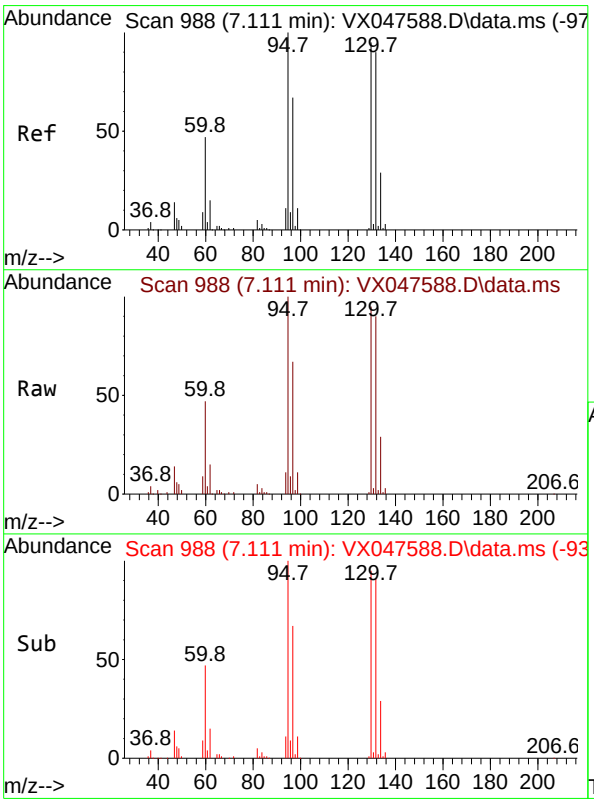
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.0	9.6	14.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

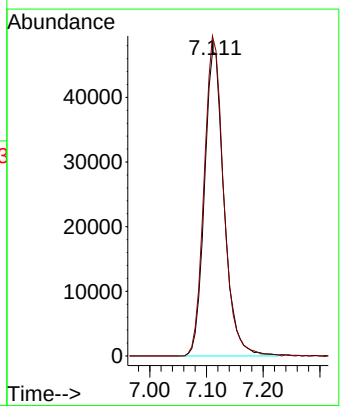


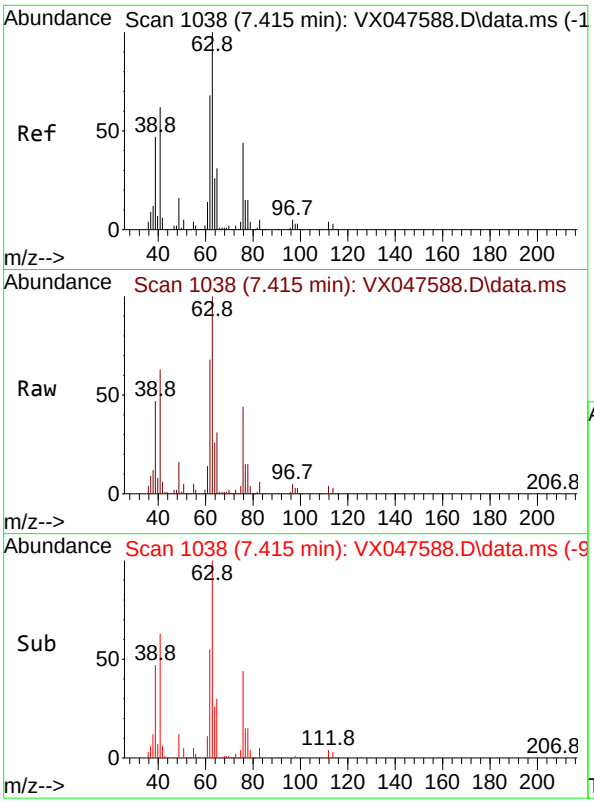


#44
Trichloroethene
Concen: 51.463 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:130 Resp: 113832

Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	210.8

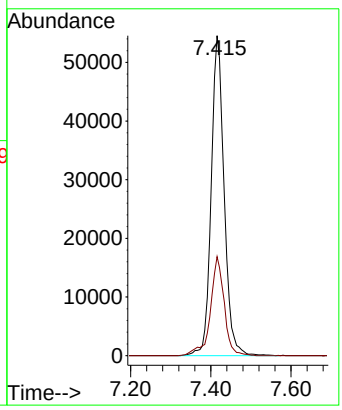




#45
1,2-Dichloropropane
Concen: 52.122 ug/l
RT: 7.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 12210

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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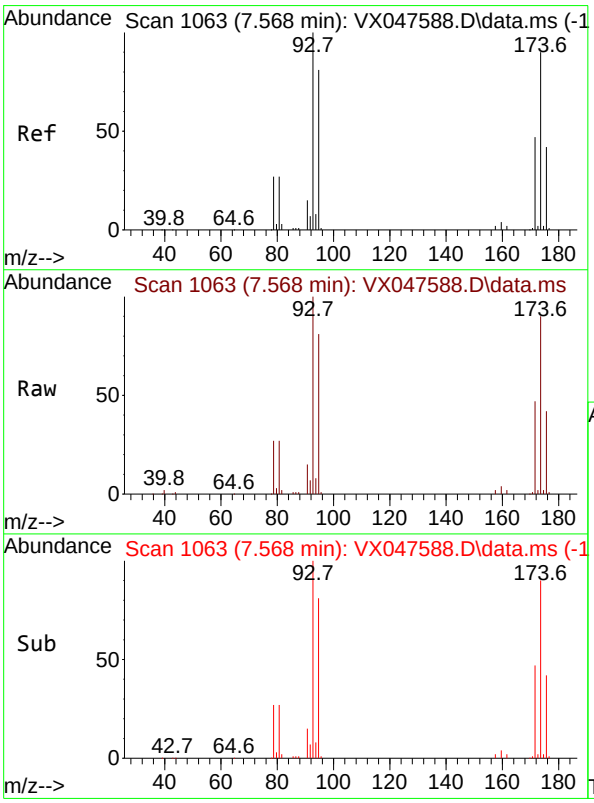
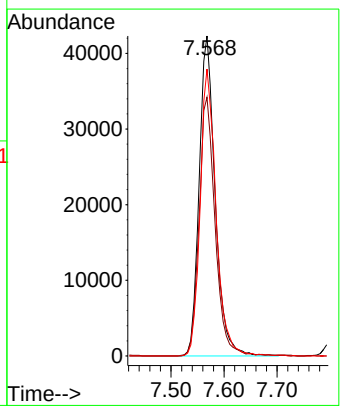
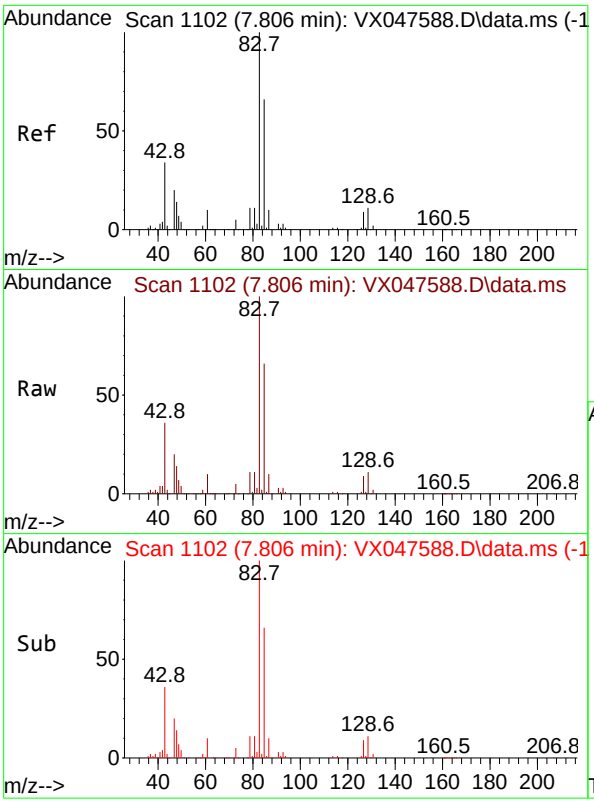


#46
Dibromomethane
Concen: 51.914 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 93 Resp: 88505

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.0	97.6
174	89.5	71.6	107.4

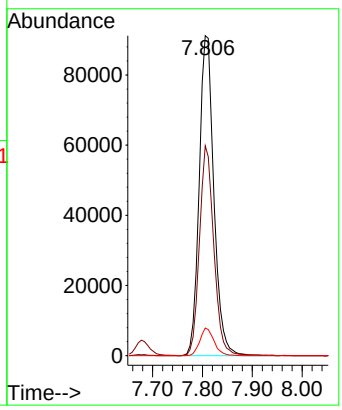




#47
Bromodichloromethane
Concen: 53.025 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 18654

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
127	8.6	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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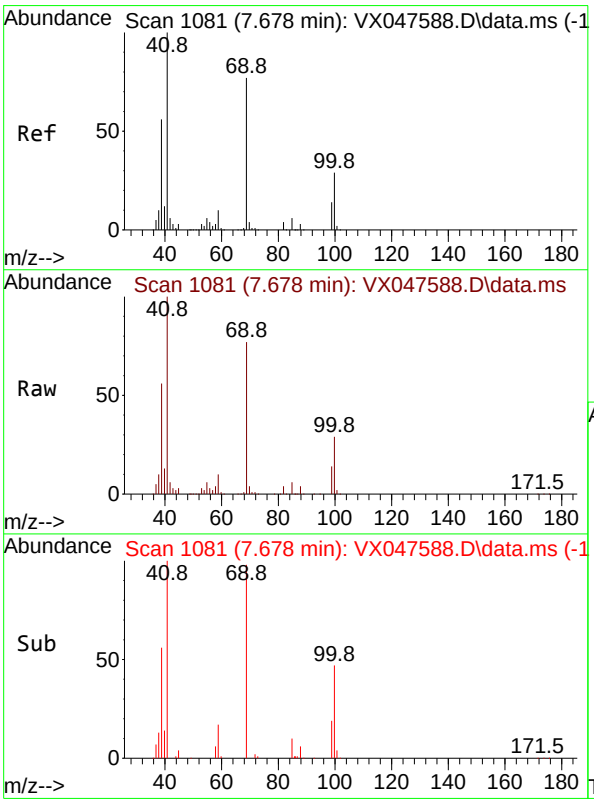
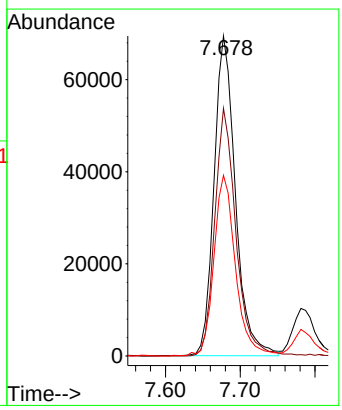
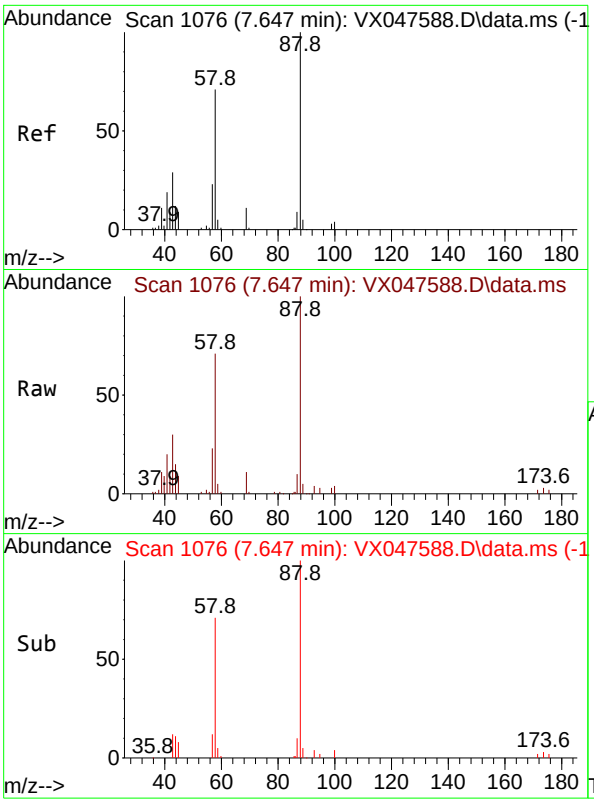


#48
Methyl methacrylate
Concen: 52.438 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 41 Resp: 138167

Ion	Ratio	Lower	Upper
41	100		
69	76.8	61.4	92.2
39	57.2	45.8	68.6

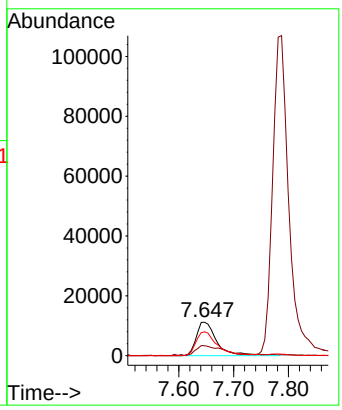




#49
1,4-Dioxane
Concen: 1107.698 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 88 Resp: 2949

Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.2	45.2
58	74.4	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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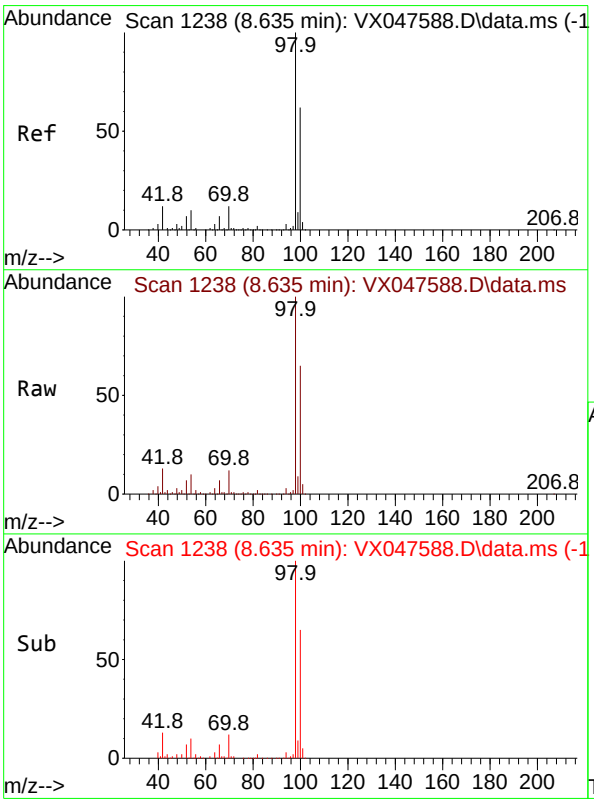
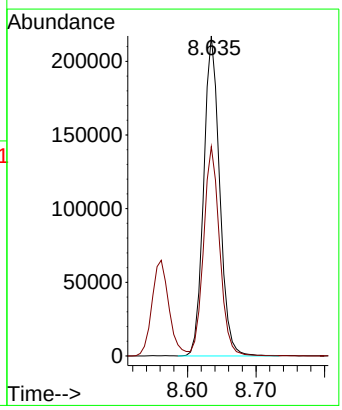
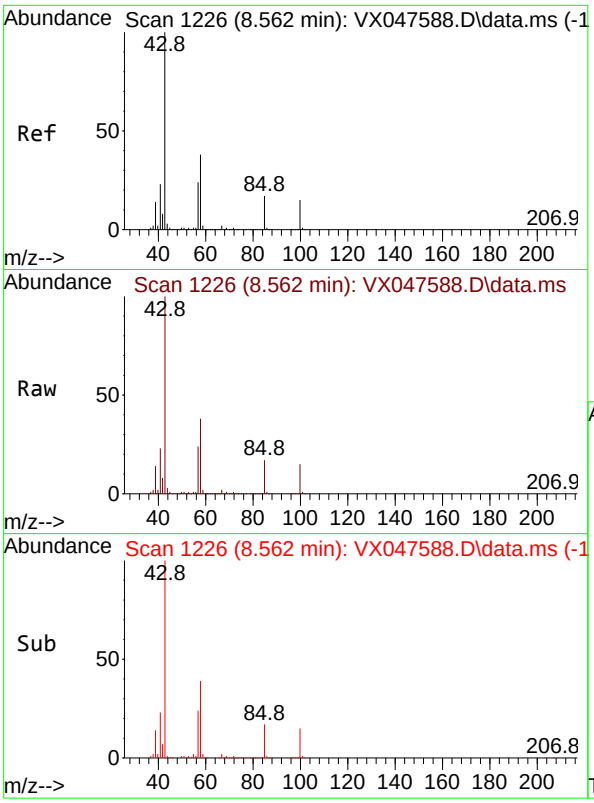


#50
Toluene-d8
Concen: 49.428 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 98 Resp: 352578

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 267.650 ug/l
RT: 8.562 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 78497

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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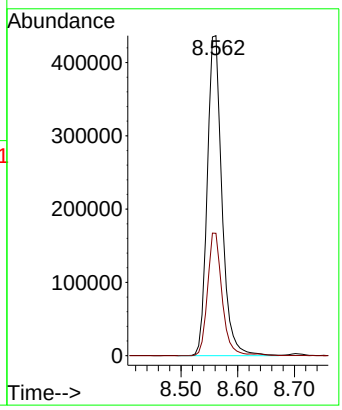
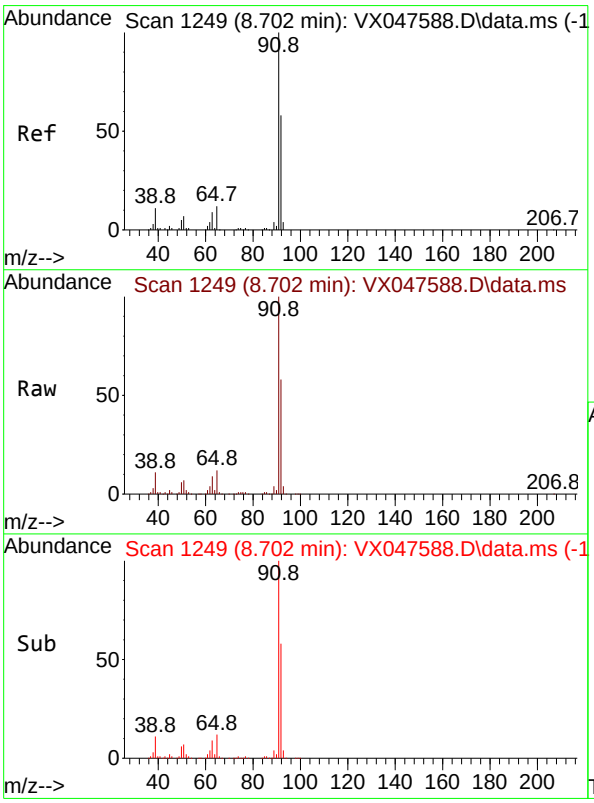
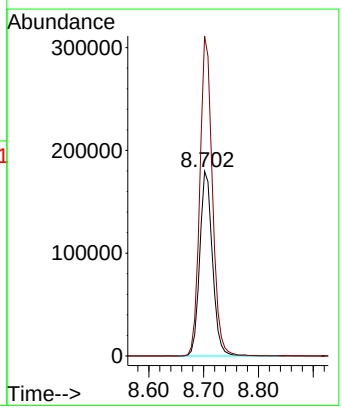


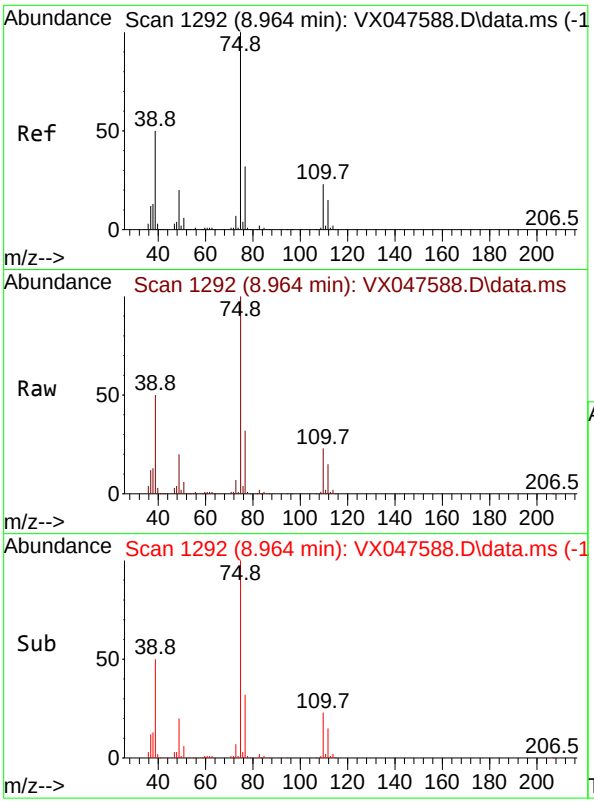


#52
Toluene
Concen: 51.244 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 92 Resp: 288853

Ion	Ratio	Lower	Upper
92	100		
91	171.4	137.1	205.7

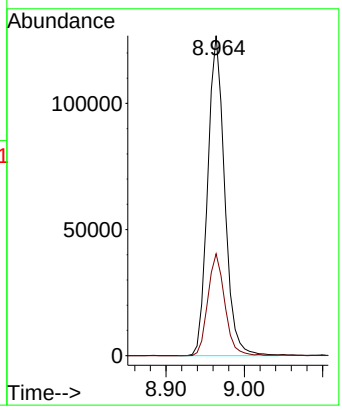




#53
t-1,3-Dichloropropene
Concen: 53.027 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 19028

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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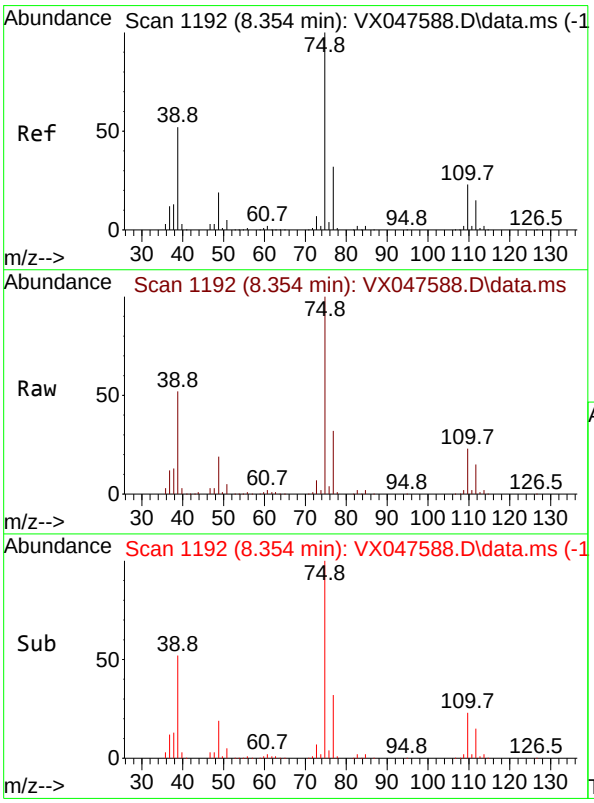
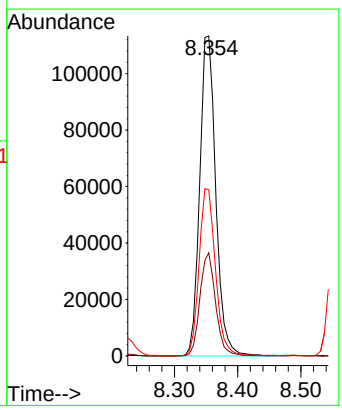
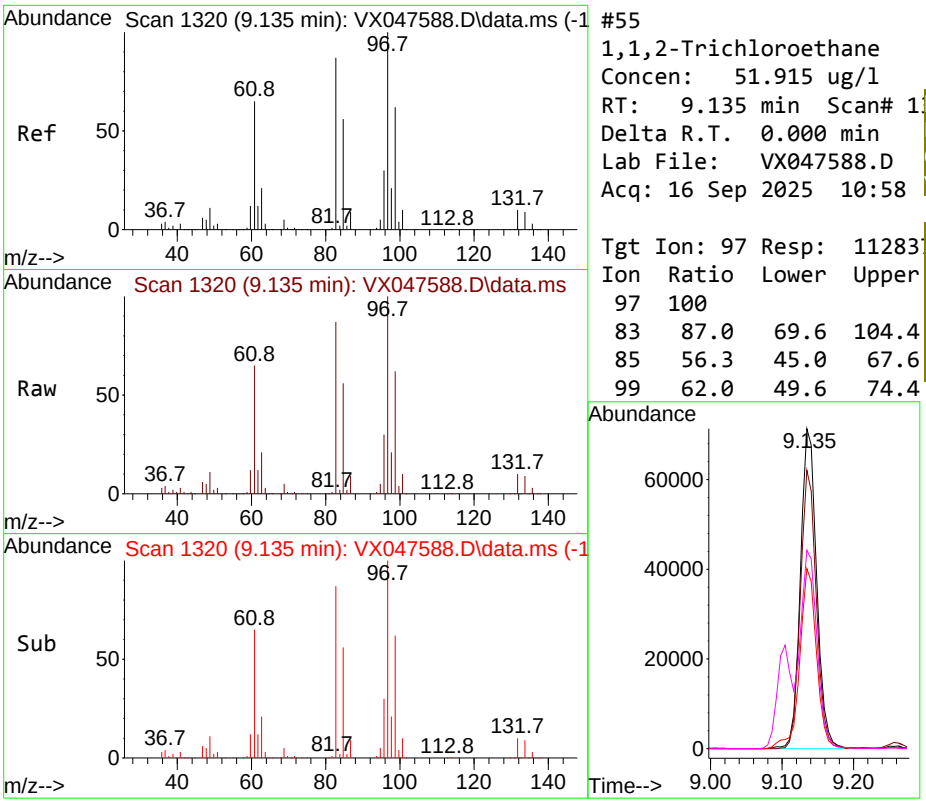


#54
cis-1,3-Dichloropropene
Concen: 52.369 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 200859

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6
39	51.8	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 51.915 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 11283

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.6	104.4
85	56.3	45.0	67.6
99	62.0	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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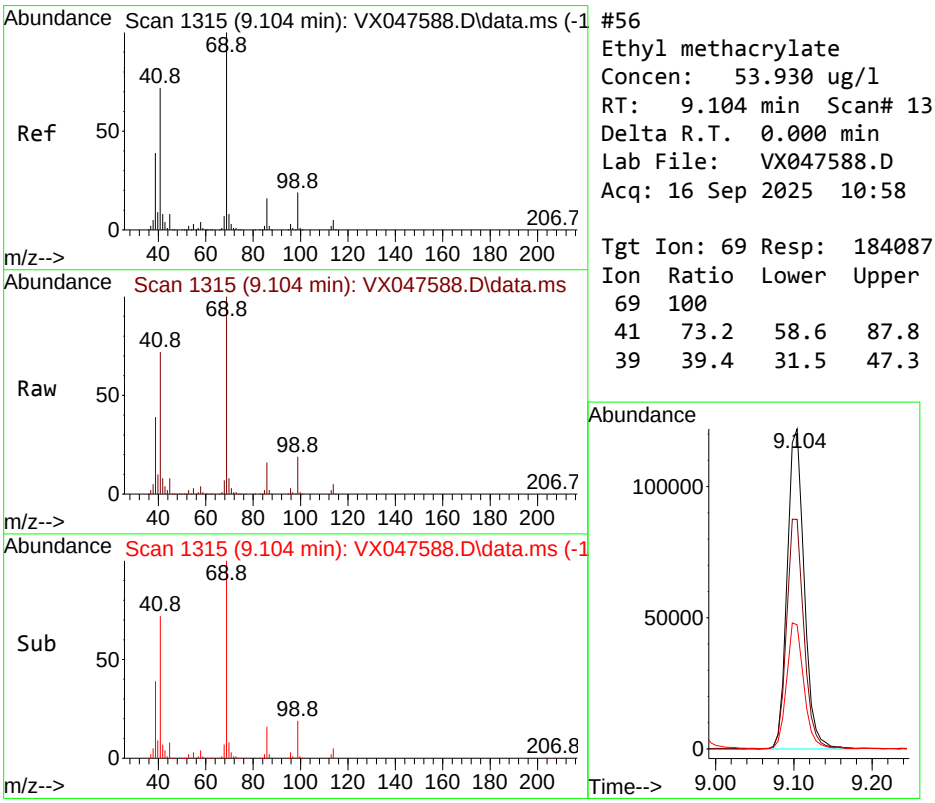
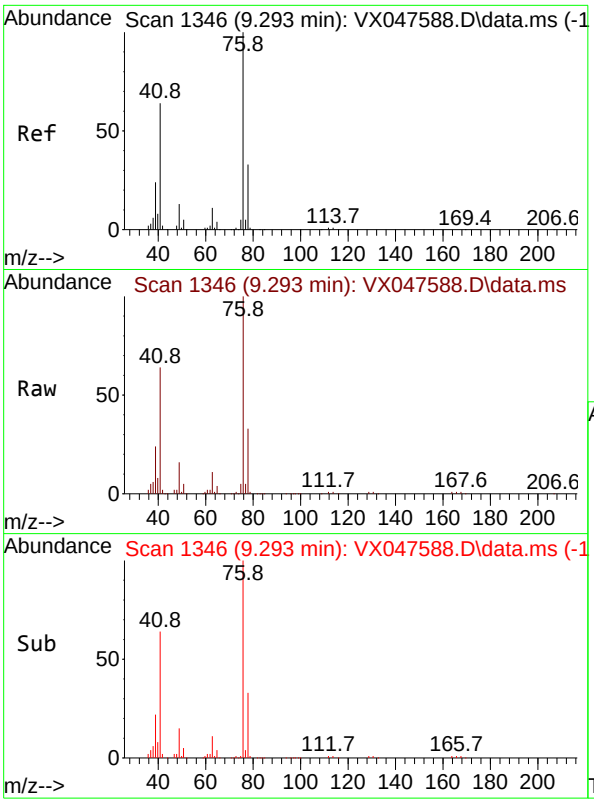


#56
Ethyl methacrylate
Concen: 53.930 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 69 Resp: 184087

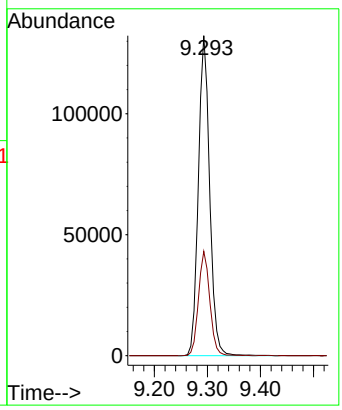
Ion	Ratio	Lower	Upper
69	100		
41	73.2	58.6	87.8
39	39.4	31.5	47.3



#57
1,3-Dichloropropane
Concen: 52.492 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 76 Resp: 19598

Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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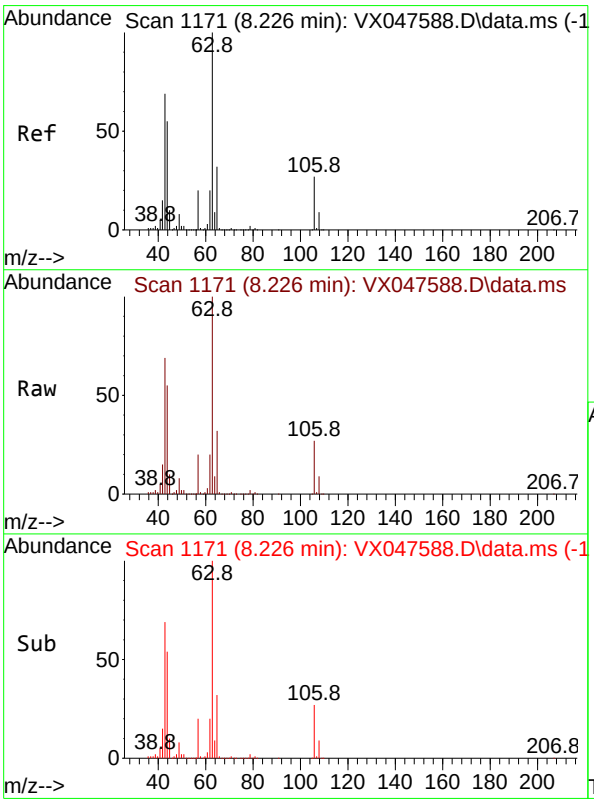
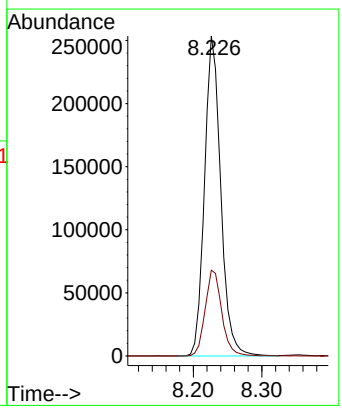
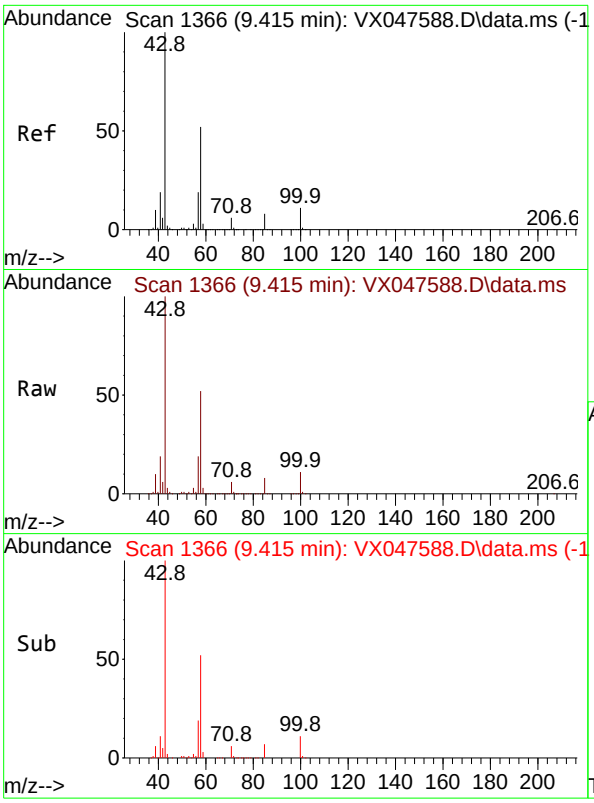


#58
2-Chloroethyl Vinyl ether
Concen: 256.309 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 418707

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9

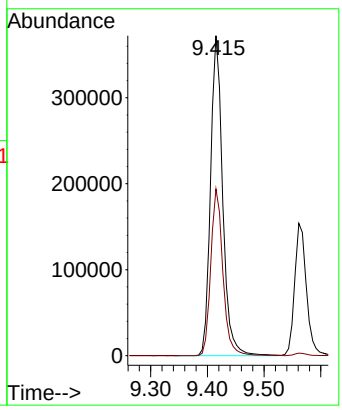




#59
2-Hexanone
Concen: 262.683 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 55331

Ion	Ratio	Lower	Upper
43	100		
58	52.1	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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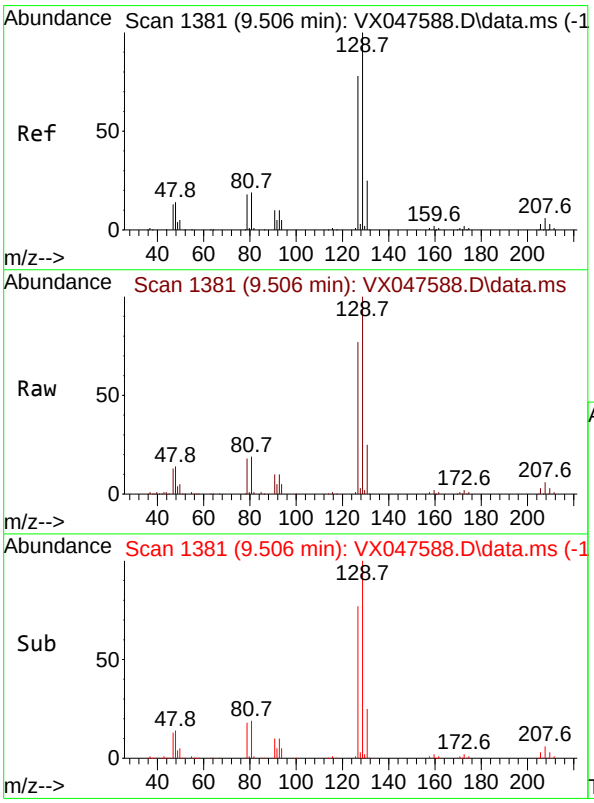
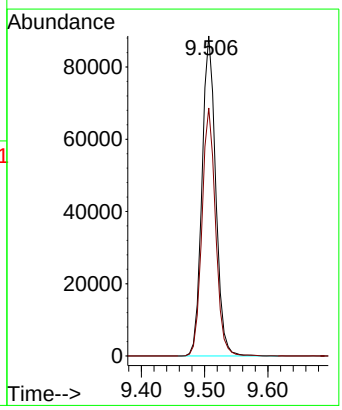
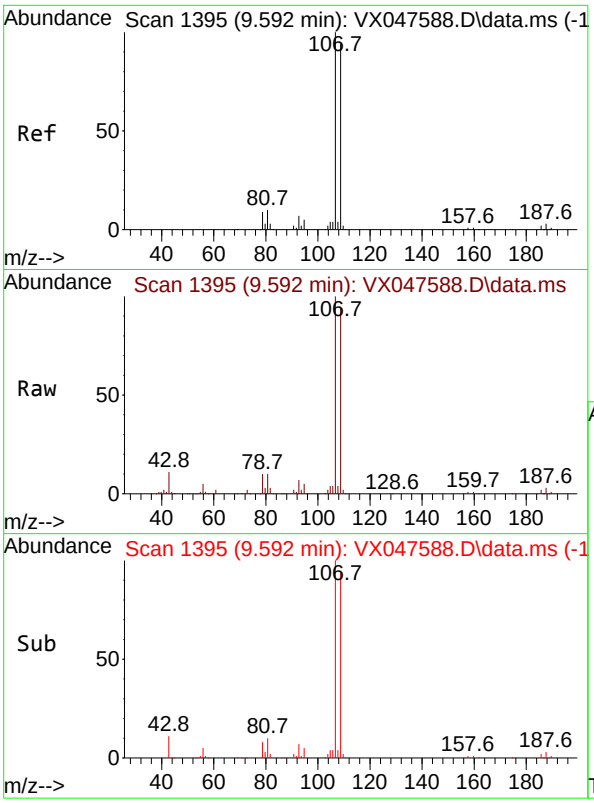


#60
Dibromochloromethane
Concen: 53.401 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:129 Resp: 133737

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.4	115.2

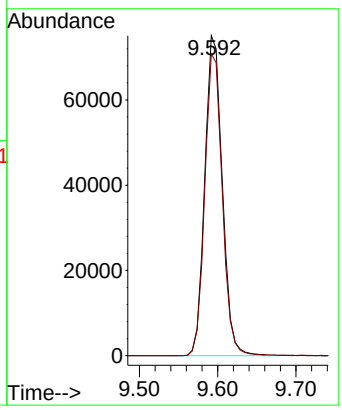




#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:107 Resp: 11646

Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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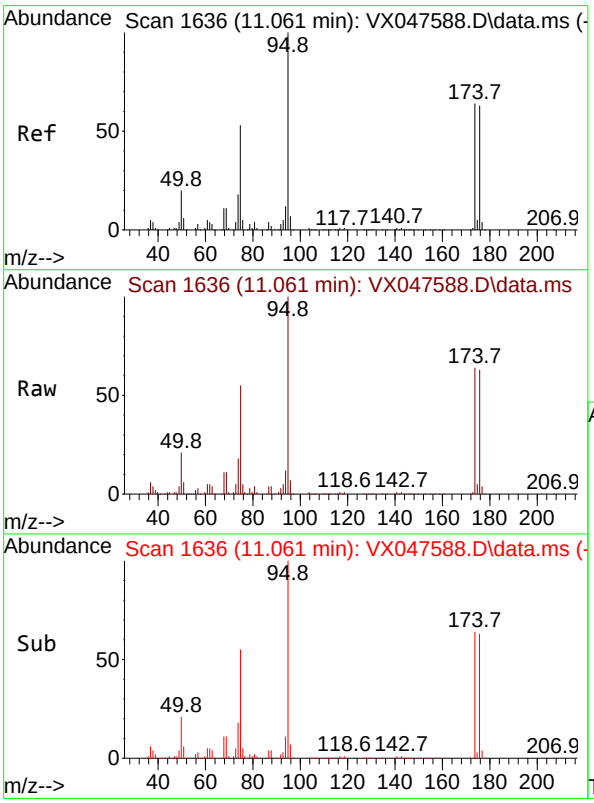
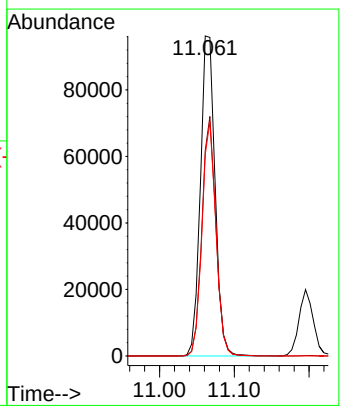
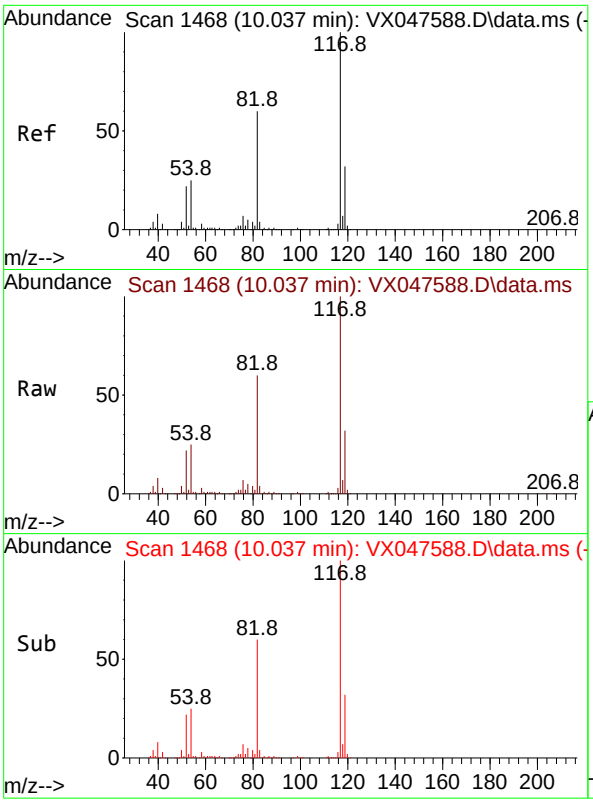


#62
4-Bromofluorobenzene
Concen: 48.471 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 95 Resp: 131217

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	141.6
176	69.2	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 27004

Ion	Ratio	Lower	Upper
117	100		
82	59.7	47.8	71.6
119	31.5	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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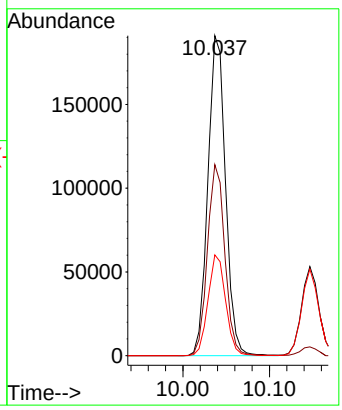
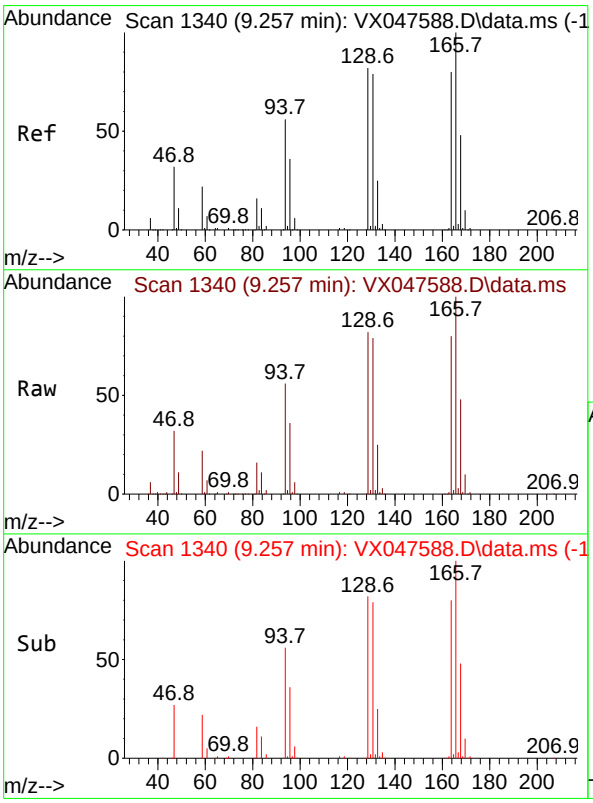
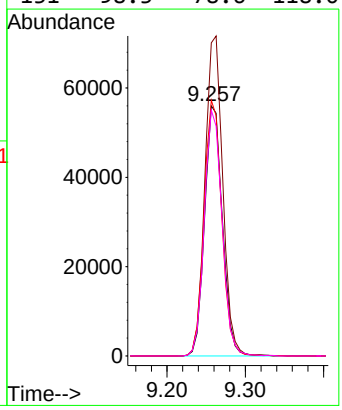


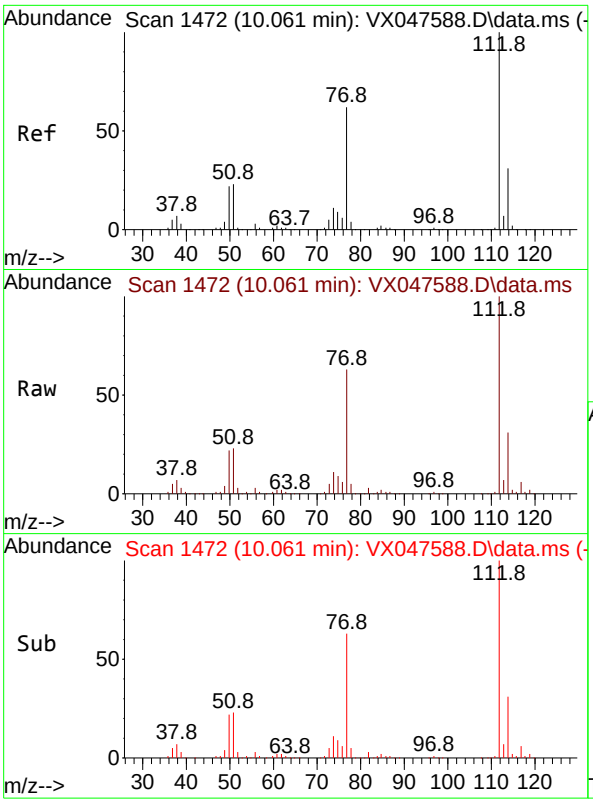


#64
Tetrachloroethene
Concen: 50.074 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:164 Resp: 88149

Ion	Ratio	Lower	Upper
164	100		
166	125.2	100.2	150.2
129	102.2	81.8	122.6
131	98.3	78.6	118.0





#65
Chlorobenzene
Concen: 51.833 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:112 Resp: 31798

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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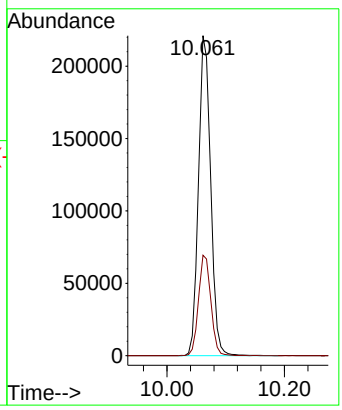
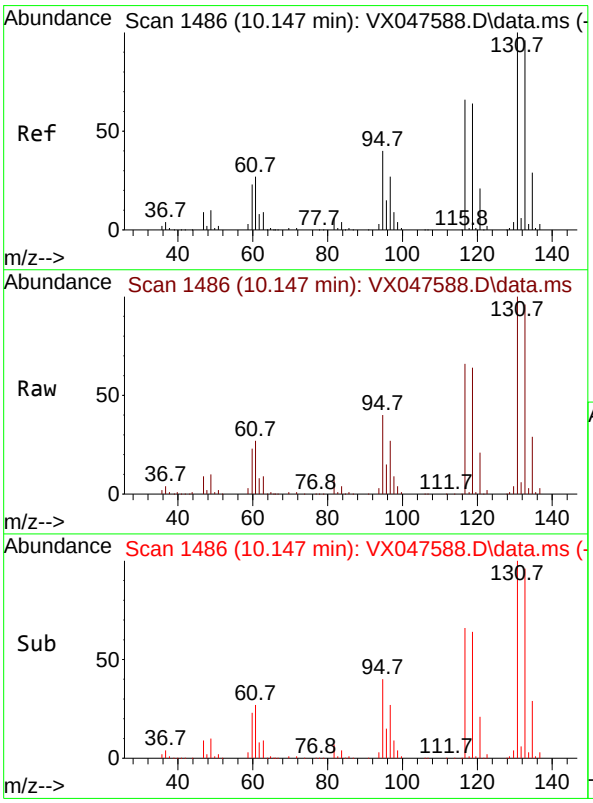
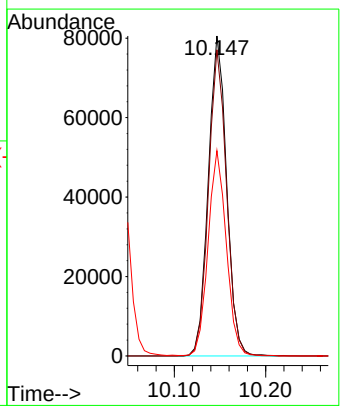


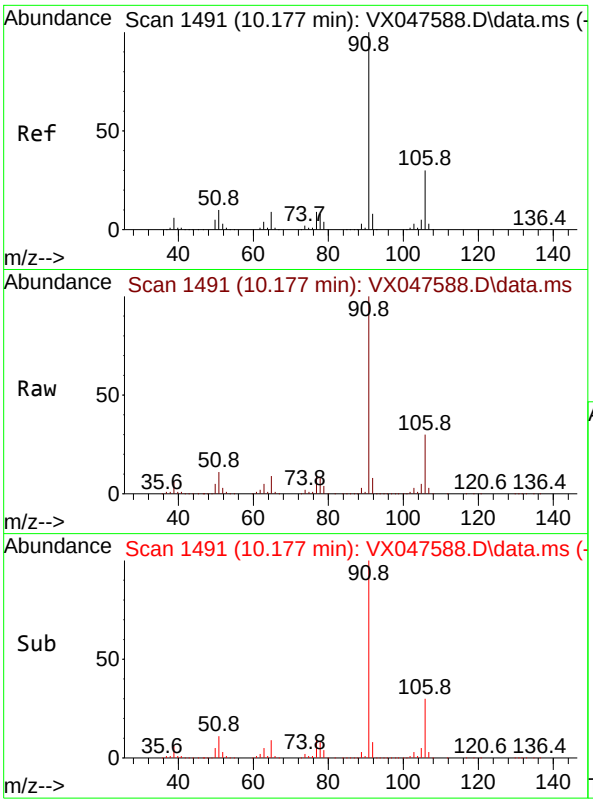


#66
1,1,1,2-Tetrachloroethane
Concen: 52.835 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:131 Resp: 111849

Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.3	142.0
119	64.0	32.0	96.0

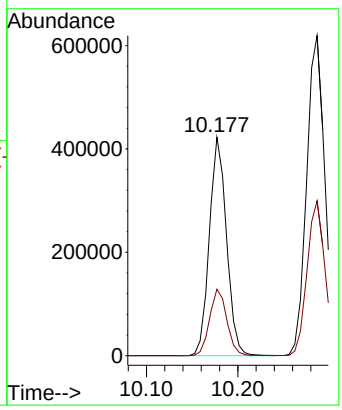




#67
Ethyl Benzene
Concen: 52.017 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 55061

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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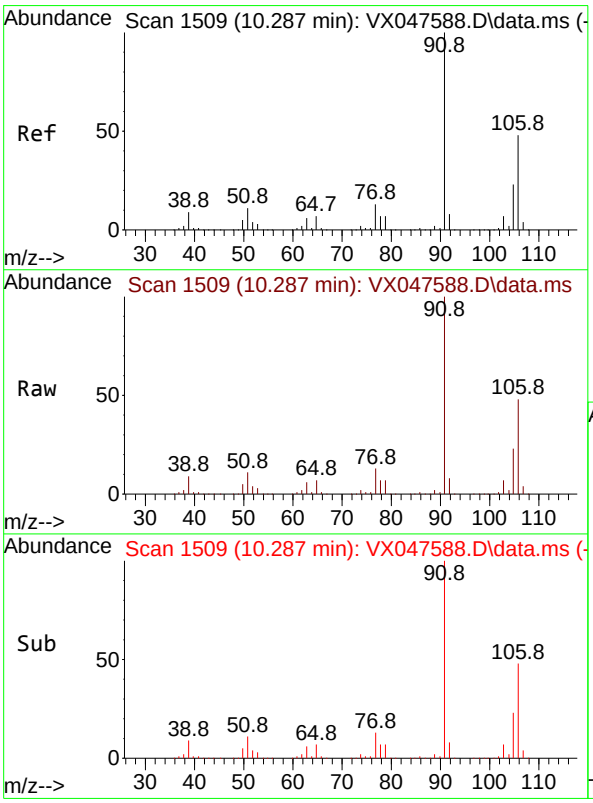
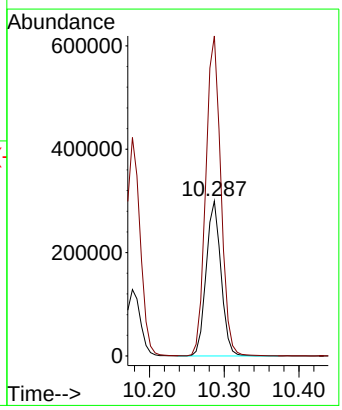
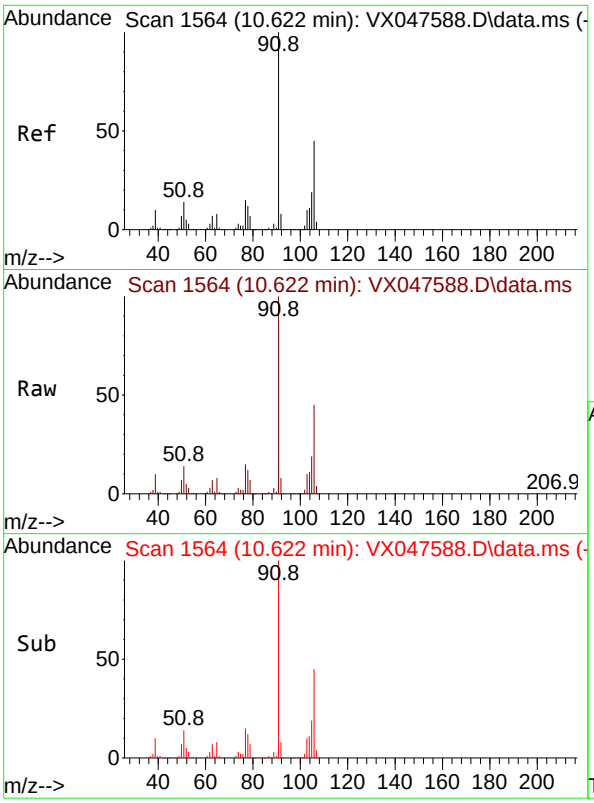


#68
m/p-Xylenes
Concen: 104.809 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 412932

Ion	Ratio	Lower	Upper
106	100		
91	209.8	167.8	251.8





#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:106 Resp: 20229

Ion	Ratio	Lower	Upper
106	100		
91	222.3	111.1	333.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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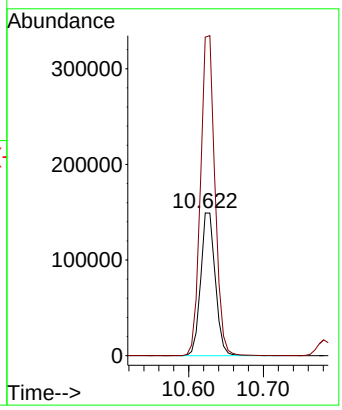
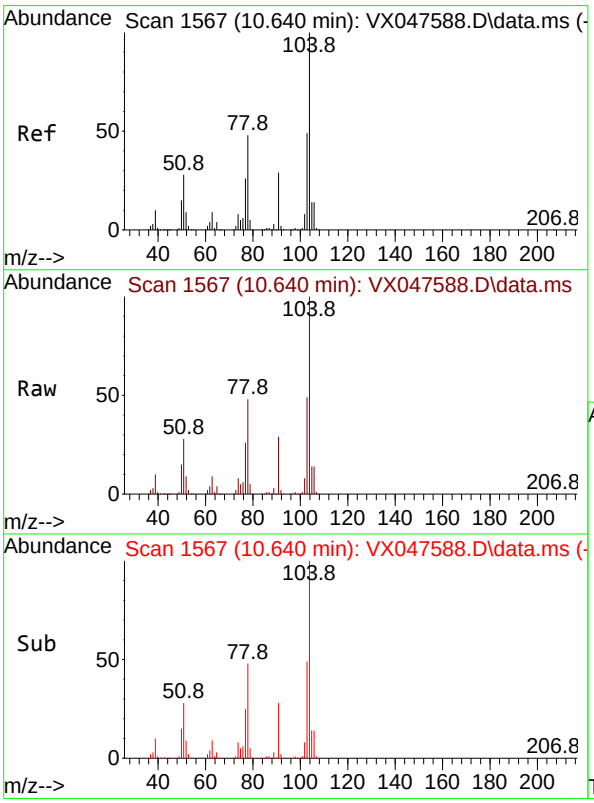
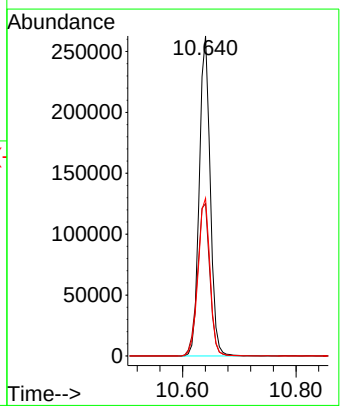


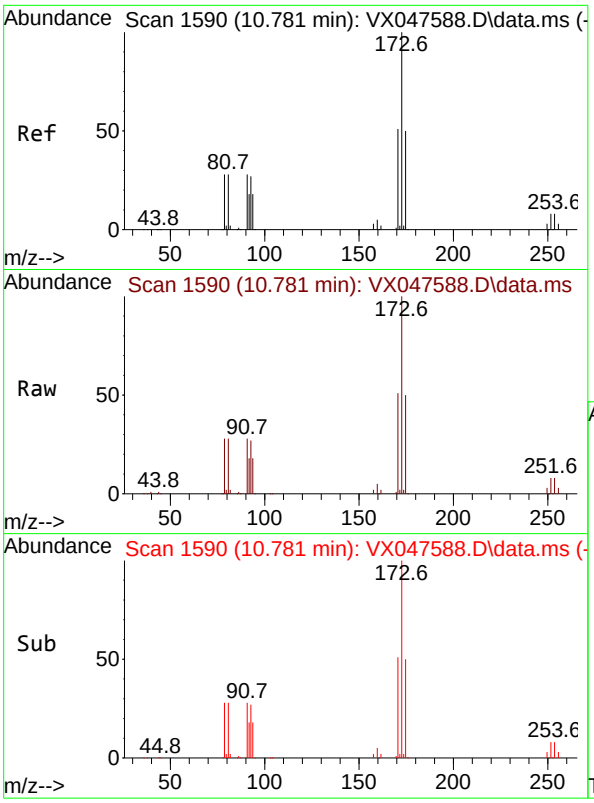


#70
Styrene
Concen: 52.515 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:104 Resp: 350654

Ion	Ratio	Lower	Upper
104	100		
78	53.9	43.1	64.7
103	53.9	43.1	64.7

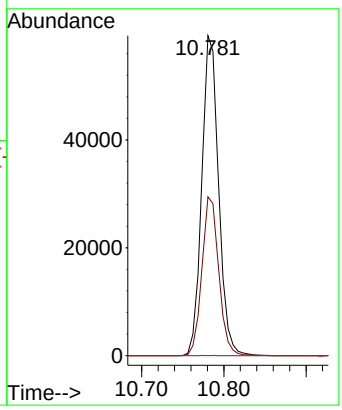




#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:173 Resp: 8448

Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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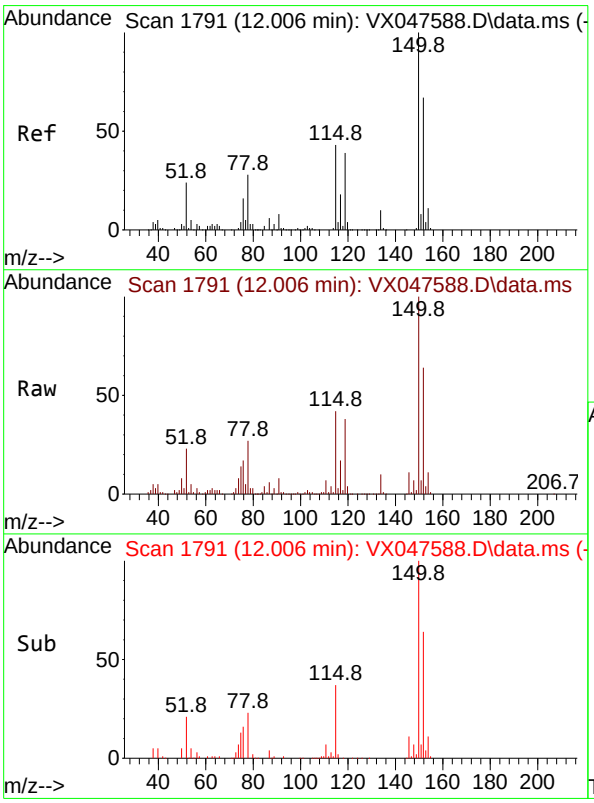
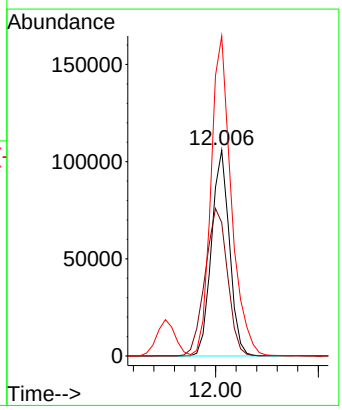
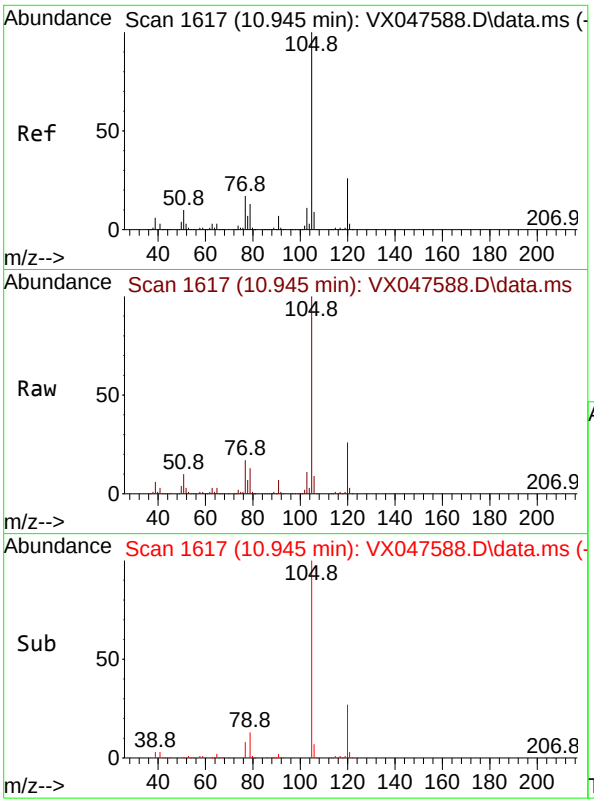


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:152 Resp: 127732

Ion	Ratio	Lower	Upper
152	100		
115	89.7	44.9	134.5
150	176.0	0.0	352.0

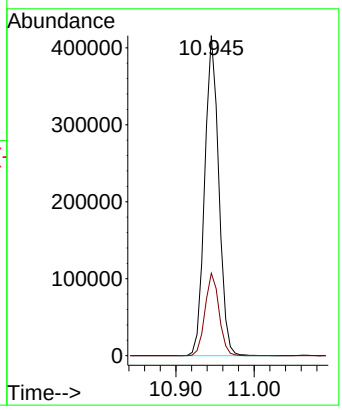




#73
Isopropylbenzene
Concen: 53.227 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 51689

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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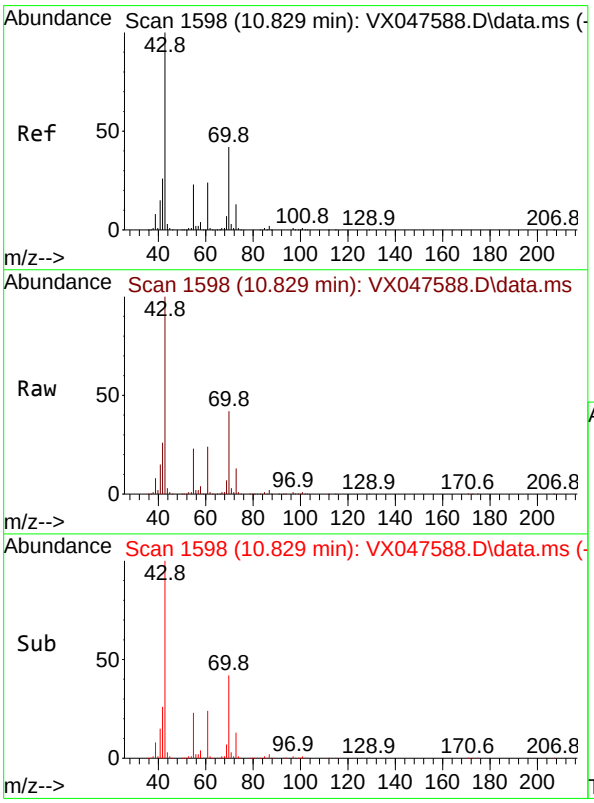
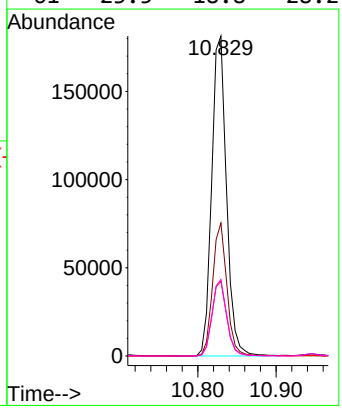
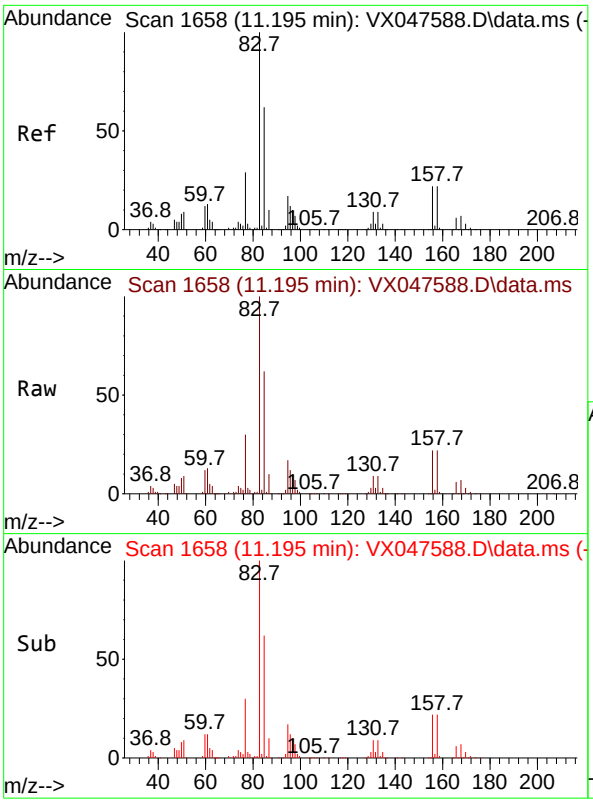


#74
N-amyl acetate
Concen: 53.710 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 237846

Ion	Ratio	Lower	Upper
43	100		
70	40.0	32.0	48.0
55	23.6	18.9	28.3
61	23.5	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 83 Resp: 15645

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.3	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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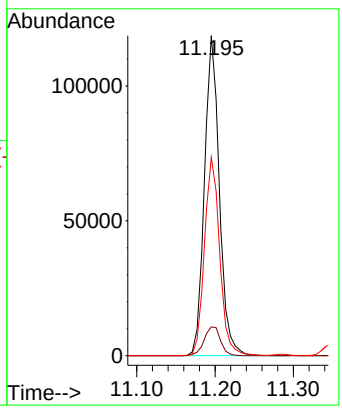
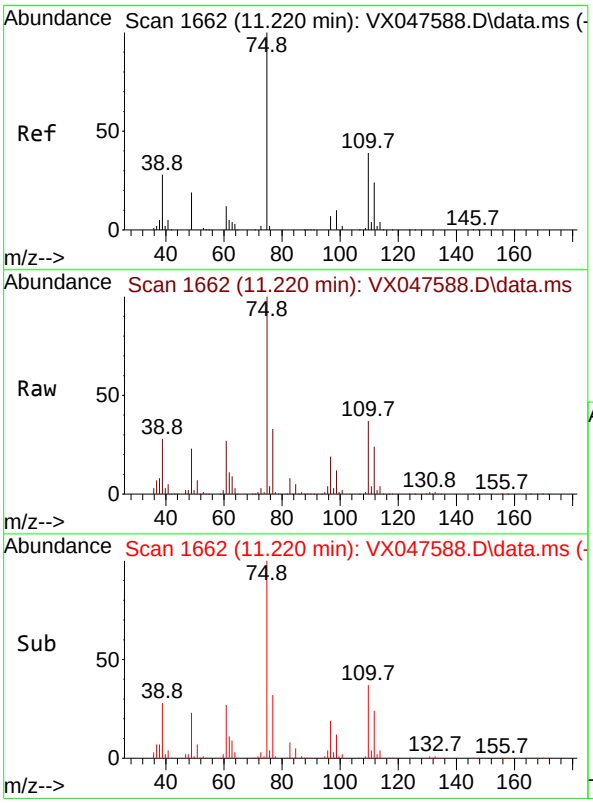
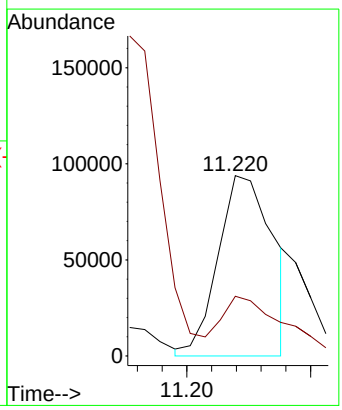


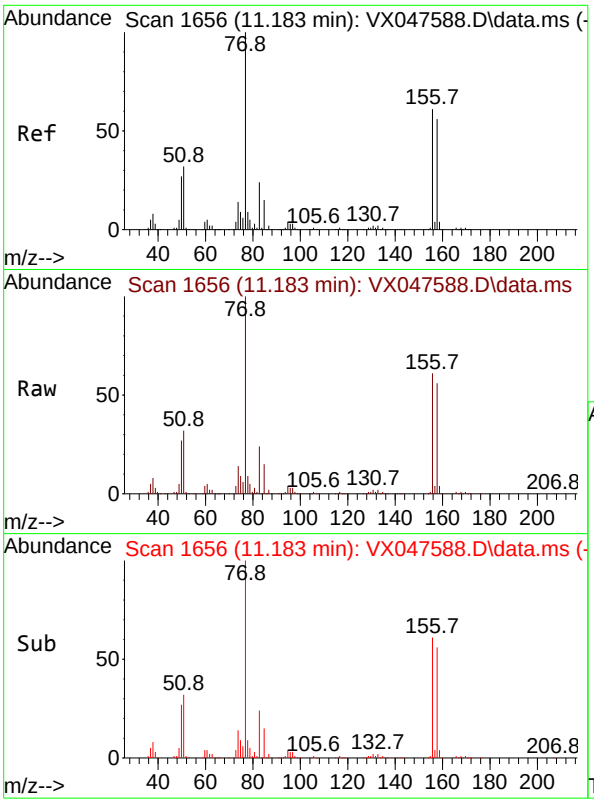


#76
1,2,3-Trichloropropane
Concen: 54.322 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 144074

Ion	Ratio	Lower	Upper
75	100		
77	37.6	18.8	56.4





#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:156 Resp: 12617

Ion	Ratio	Lower	Upper
156	100		
77	179.4	89.7	269.1
158	95.7	47.9	143.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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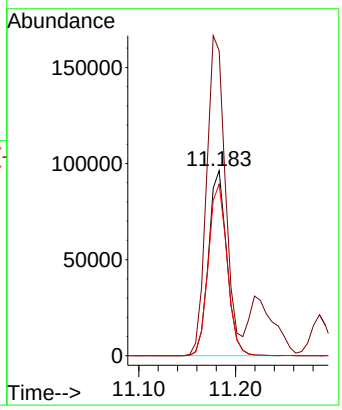
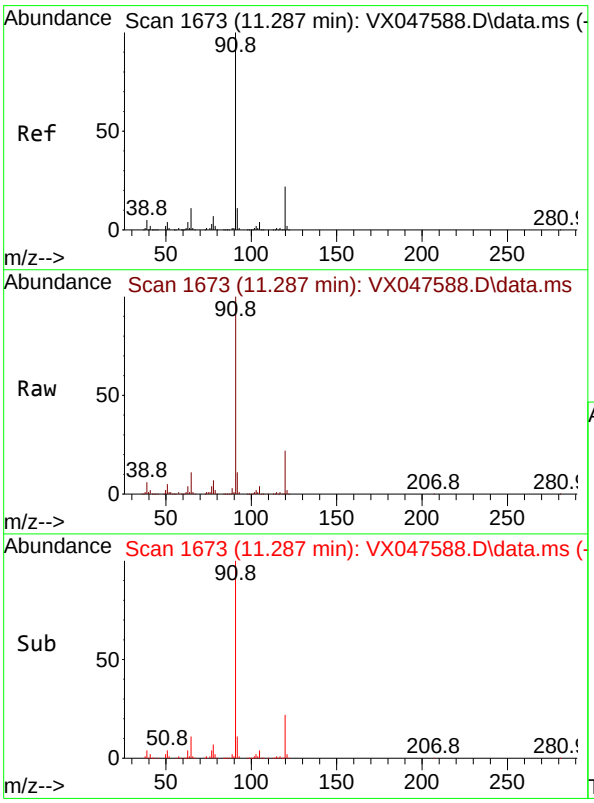
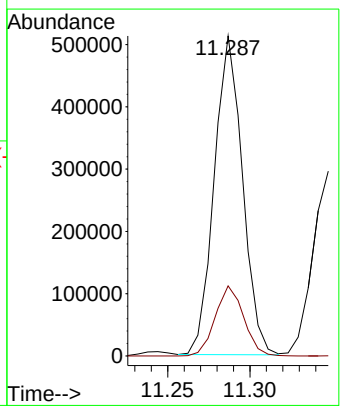


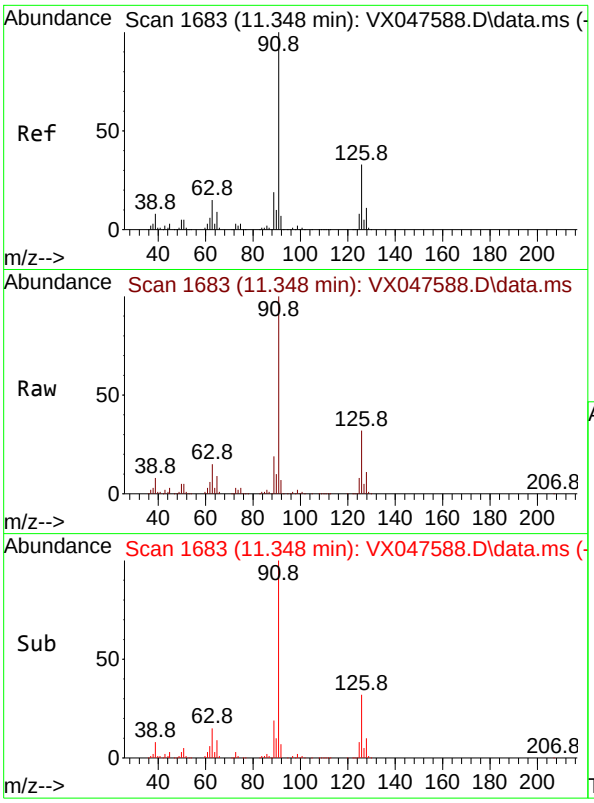


#78
n-propylbenzene
Concen: 53.315 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 612035

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.1





#79
2-Chlorotoluene
Concen: 52.965 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 37239

Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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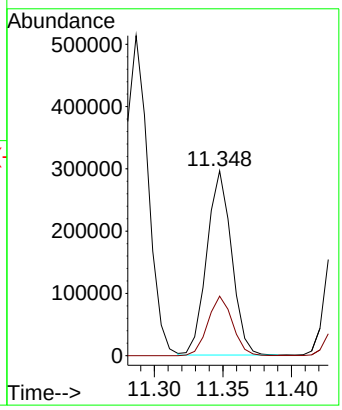
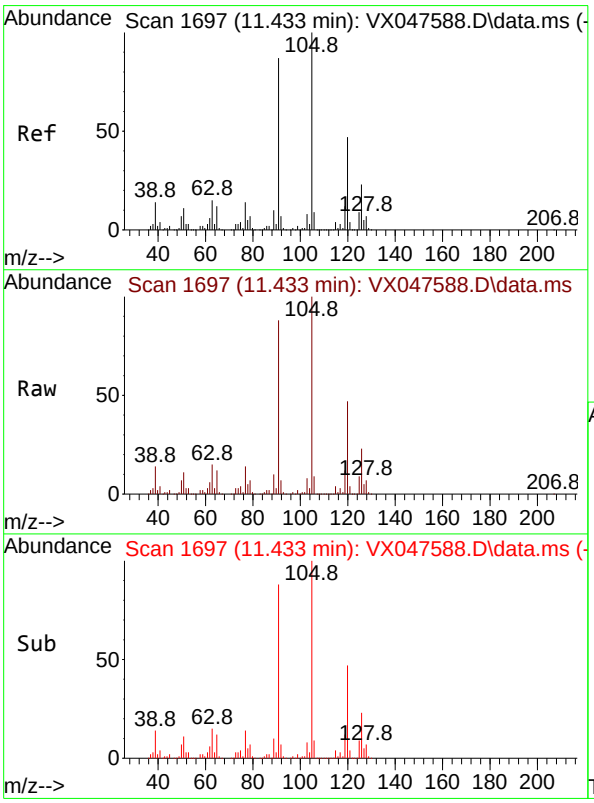
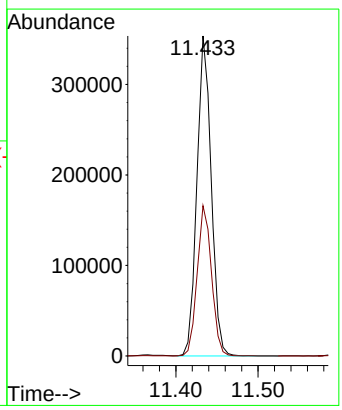


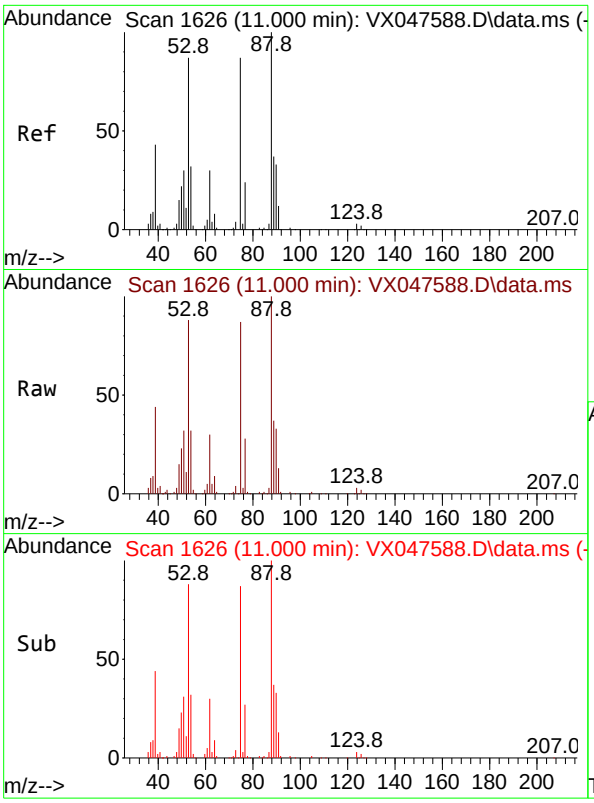


#80
1,3,5-Trimethylbenzene
Concen: 53.518 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 426989

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8

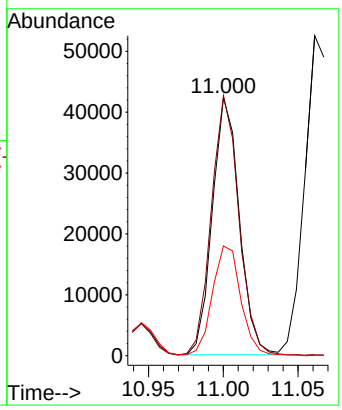




#81
trans-1,4-Dichloro-2-butene
Concen: 52.190 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 5292

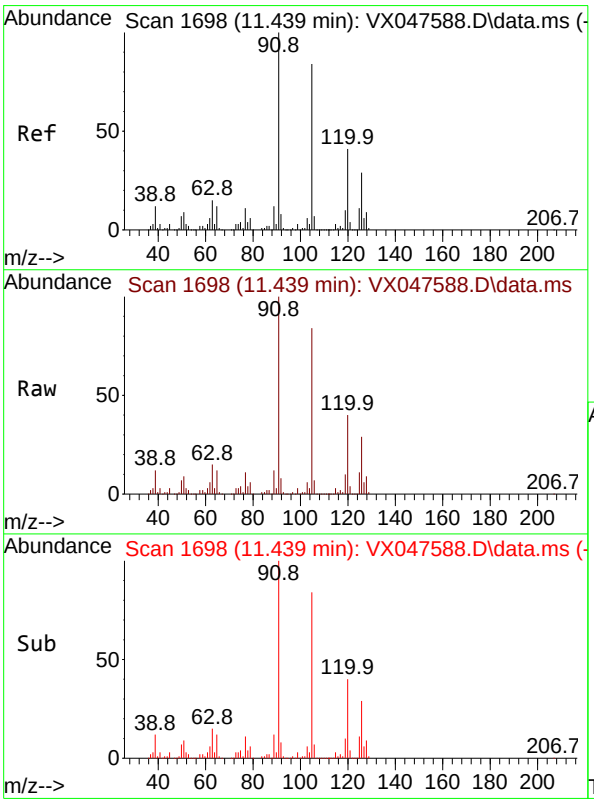
Ion	Ratio	Lower	Upper
75	100		
53	104.3	83.4	125.2
89	45.4	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

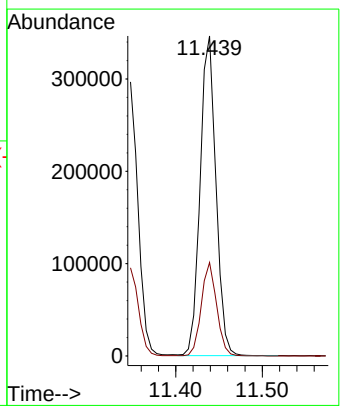
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

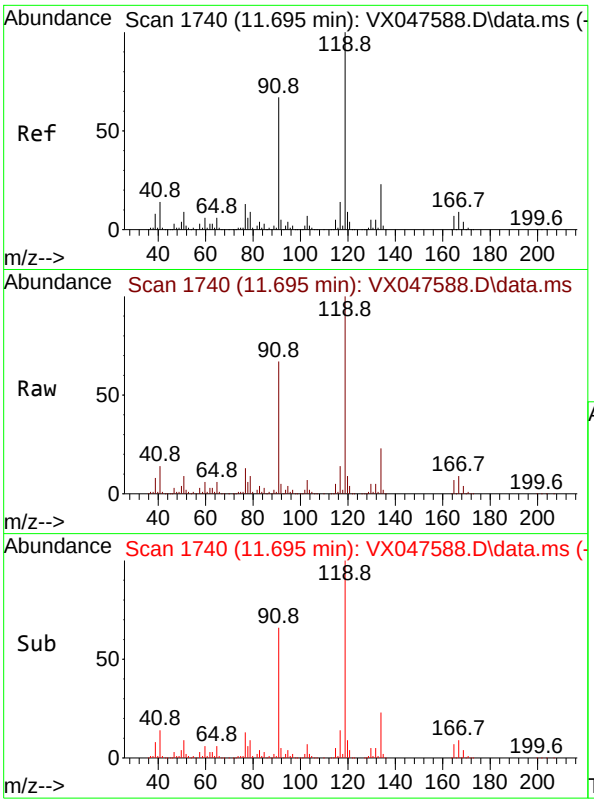


#82
4-Chlorotoluene
Concen: 52.806 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 438502

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6

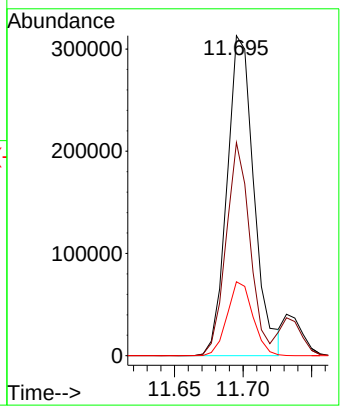




#83
tert-Butylbenzene
Concen: 52.539 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 42910

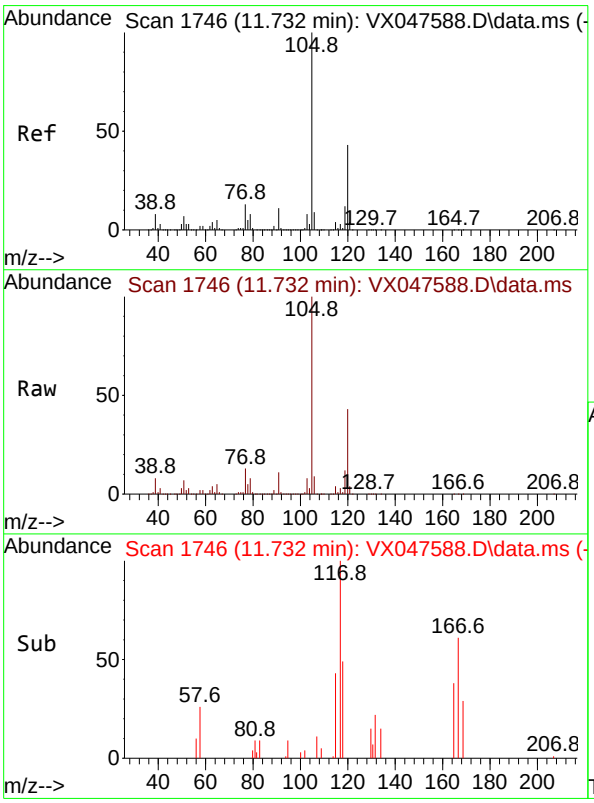
Ion	Ratio	Lower	Upper
119	100		
91	59.2	29.6	88.8
134	22.0	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

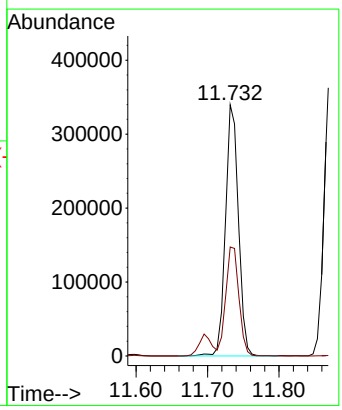
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

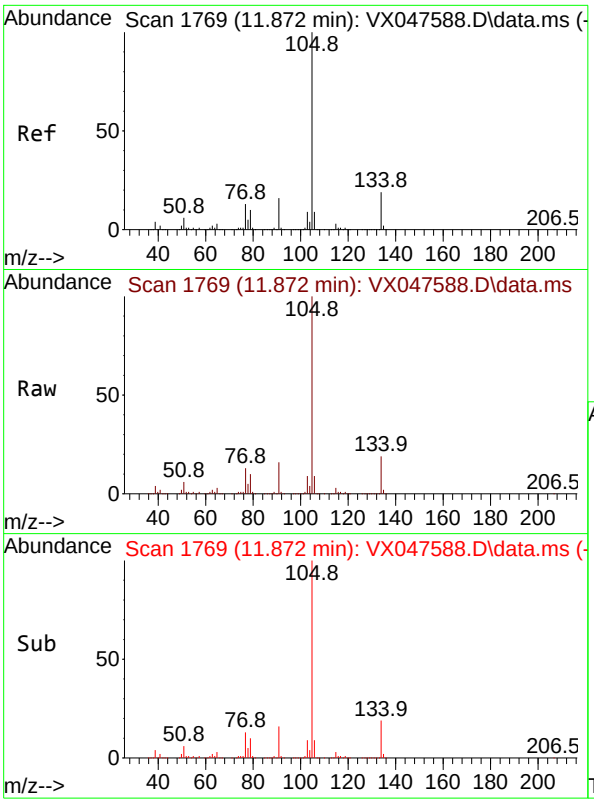


#84
1,2,4-Trimethylbenzene
Concen: 52.798 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 427073

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

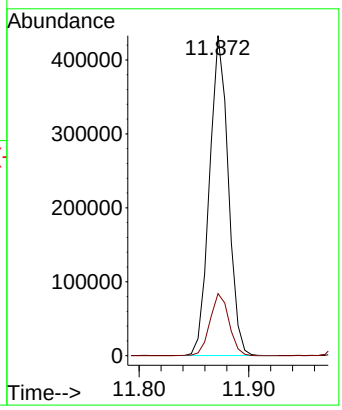




#85
sec-Butylbenzene
Concen: 53.029 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:105 Resp: 51444

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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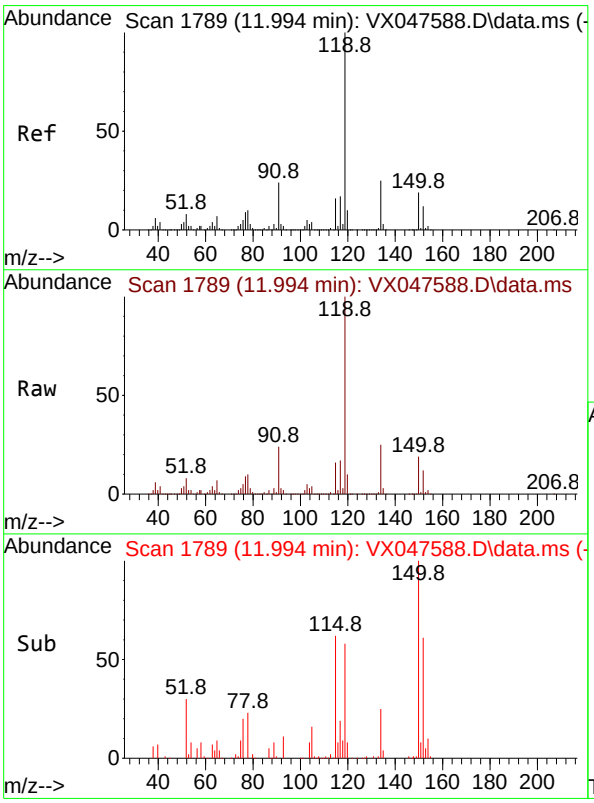
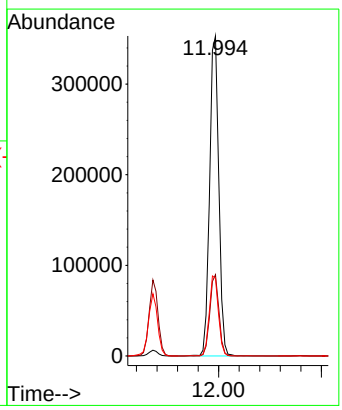
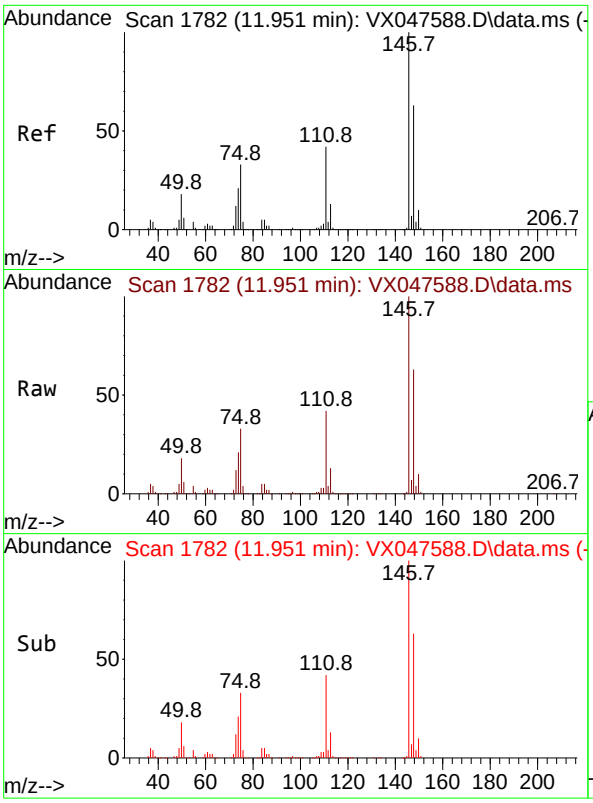


#86
p-Isopropyltoluene
Concen: 53.172 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:119 Resp: 436704

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	25.1	12.6	37.6

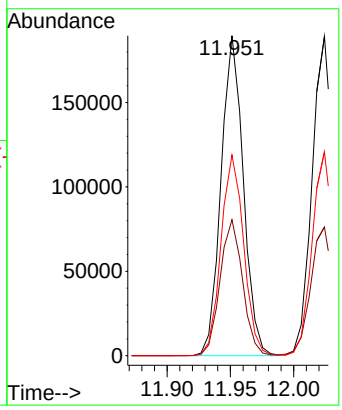




#87
1,3-Dichlorobenzene
Concen: 52.232 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 23203

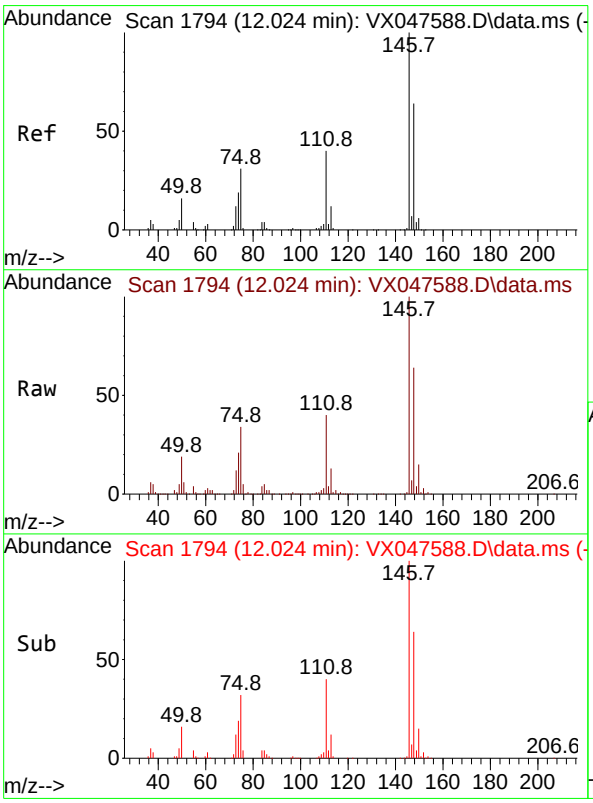
Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.5	64.5
148	64.0	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

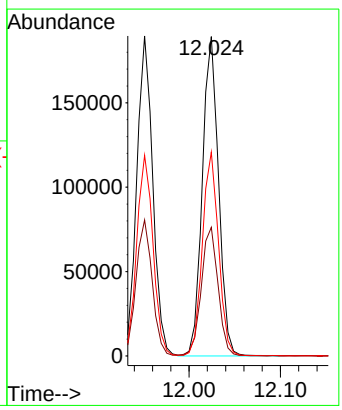
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

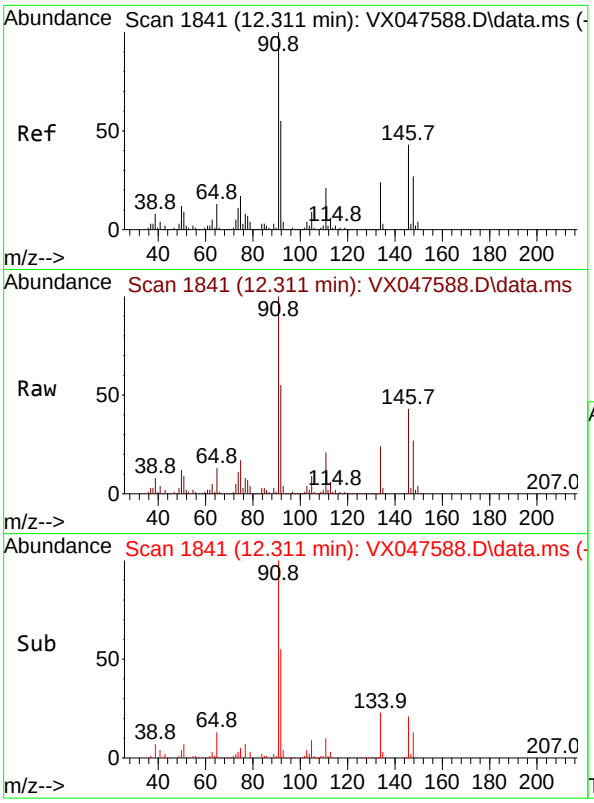


#88
1,4-Dichlorobenzene
Concen: 51.316 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 233975

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.4	31.7	95.1

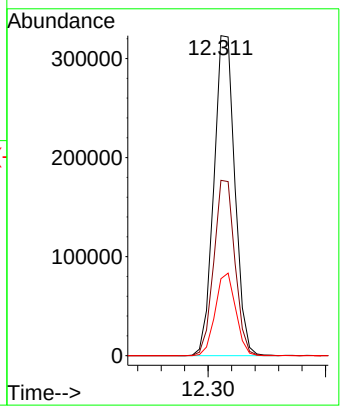




#89
n-Butylbenzene
Concen: 52.766 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 40099

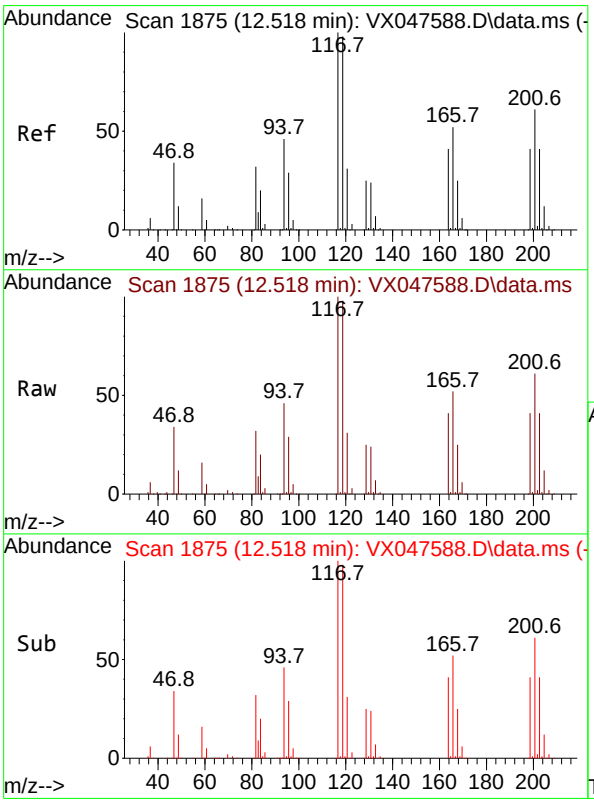
Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

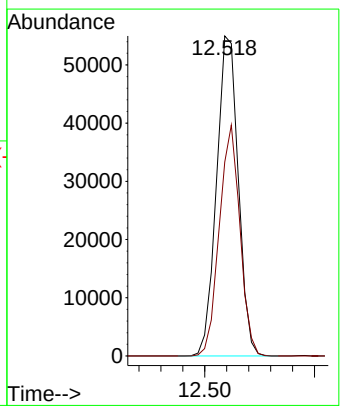
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

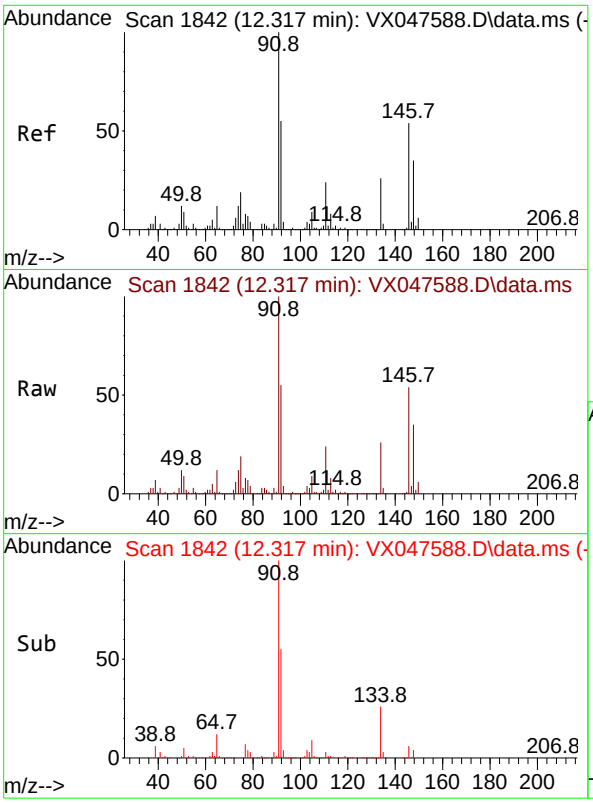


#90
Hexachloroethane
Concen: 52.567 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:117 Resp: 75800

Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5

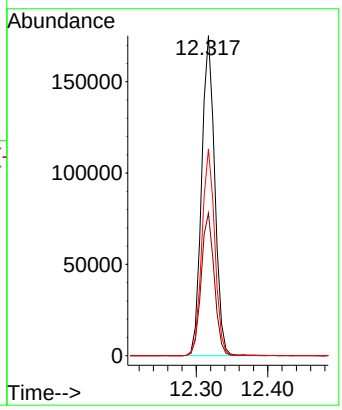




#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:146 Resp: 22299

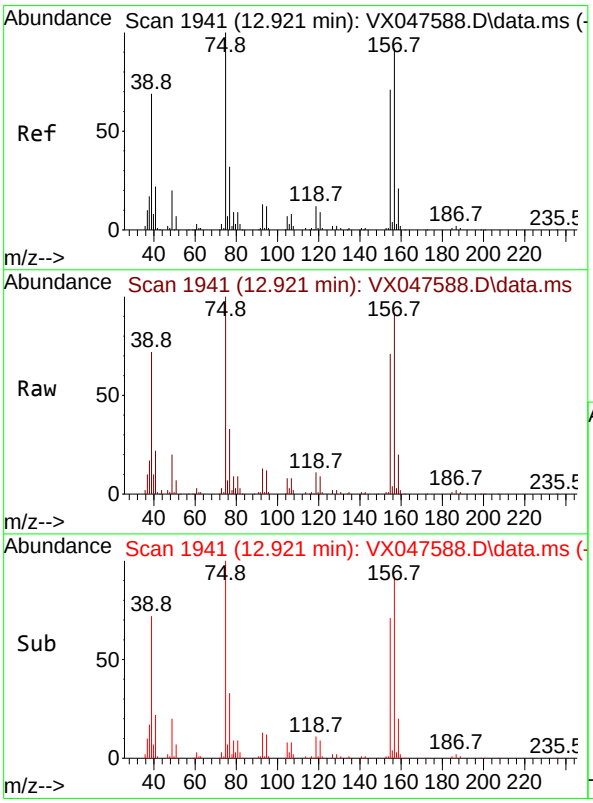
Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.2	66.6
148	63.6	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

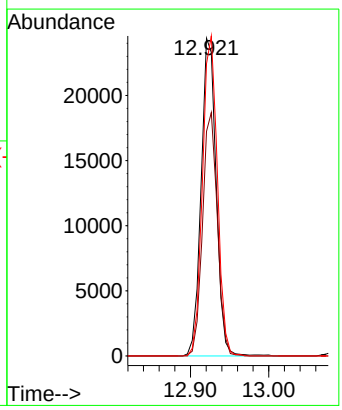
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

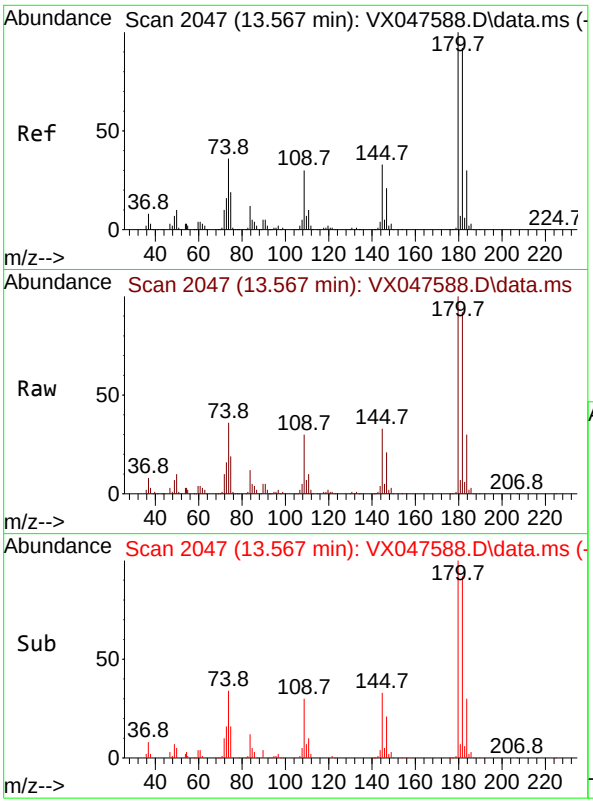


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.554 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 32451

Ion	Ratio	Lower	Upper
75	100		
155	75.4	37.7	113.1
157	99.6	49.8	149.4

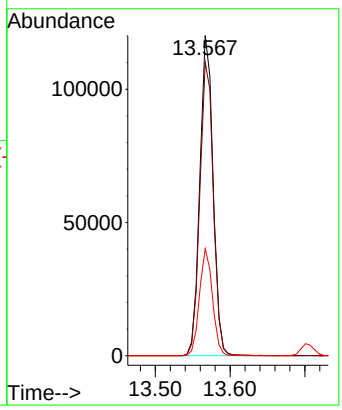




#93
1,2,4-Trichlorobenzene
Concen: 53.685 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 14767

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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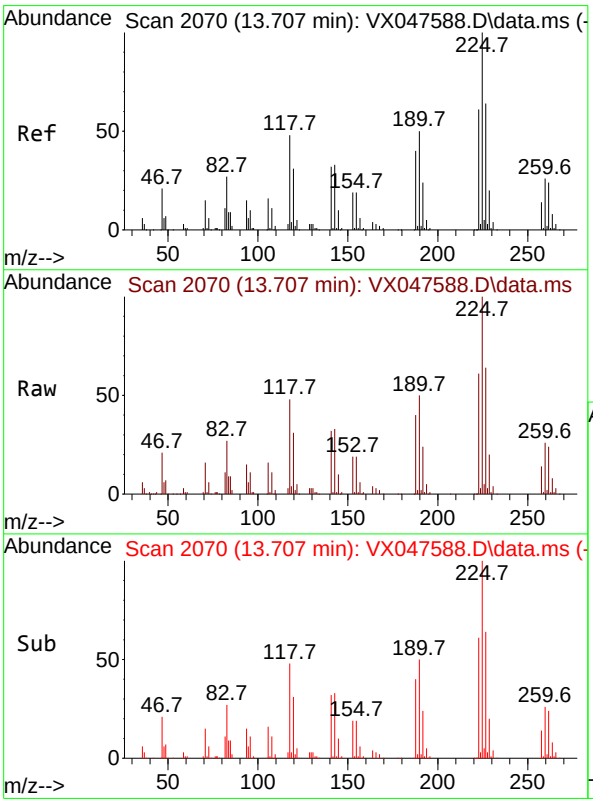
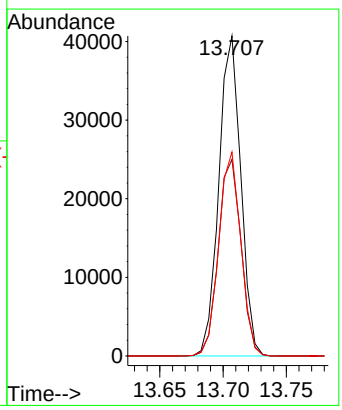
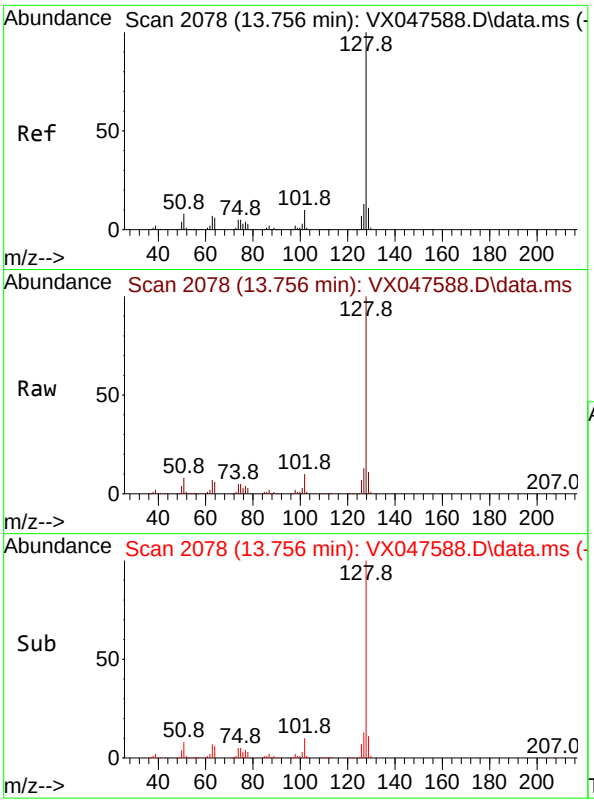


#94
Hexachlorobutadiene
Concen: 52.510 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:225 Resp: 49061

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.7	95.1
227	64.0	32.0	96.0

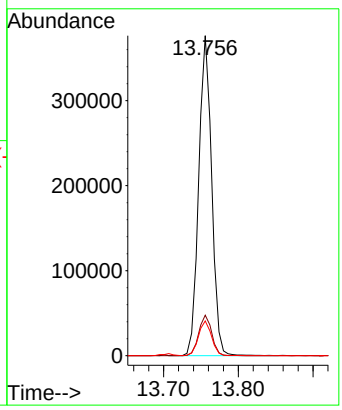




#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:128 Resp: 45201

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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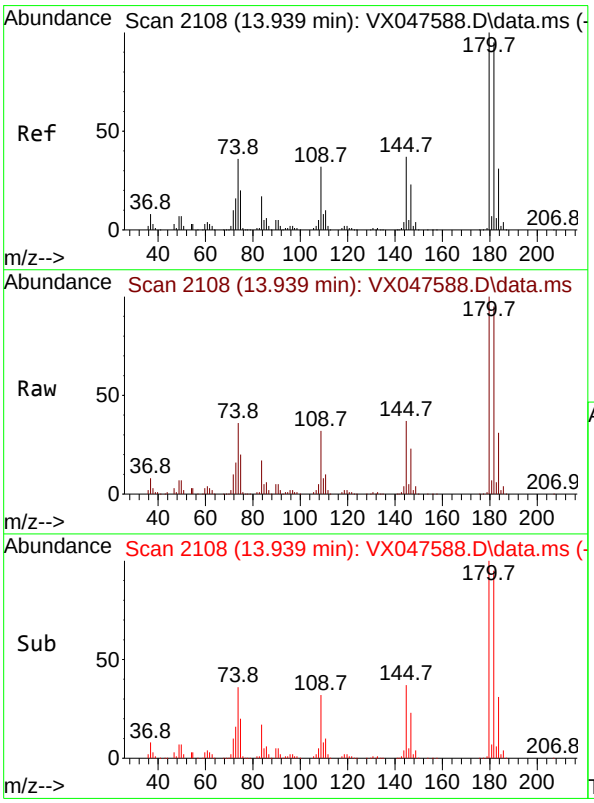
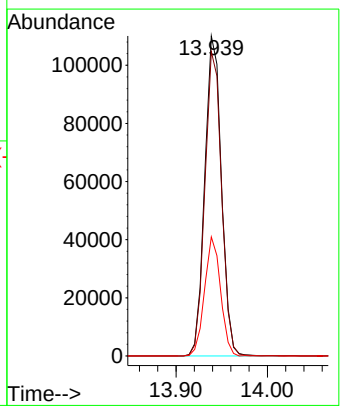


#96
1,2,3-Trichlorobenzene
Concen: 54.316 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 138978

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.6	142.8
145	35.8	17.9	53.7



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	229521m	90.444	ug/l	
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

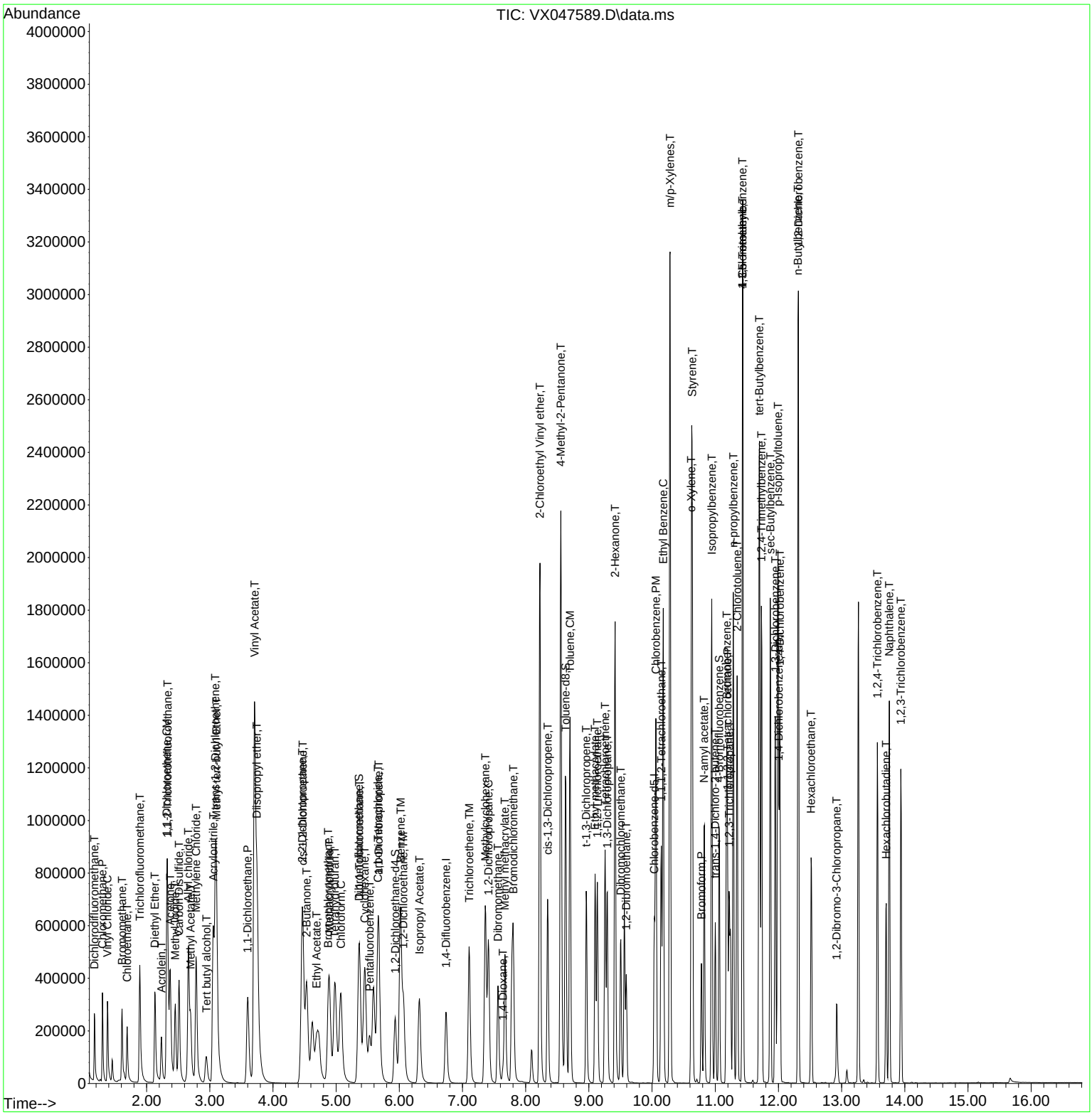
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

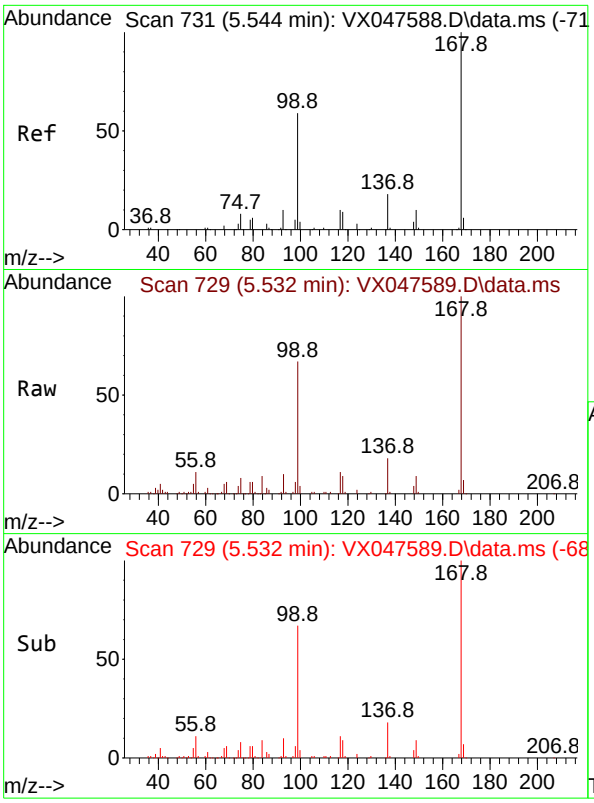
Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

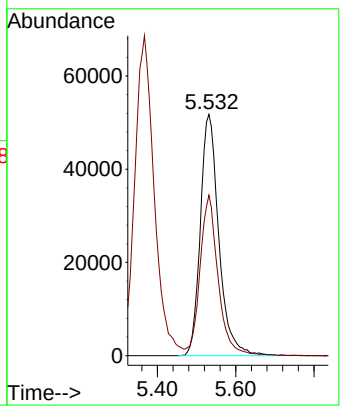




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:168 Resp: 16928

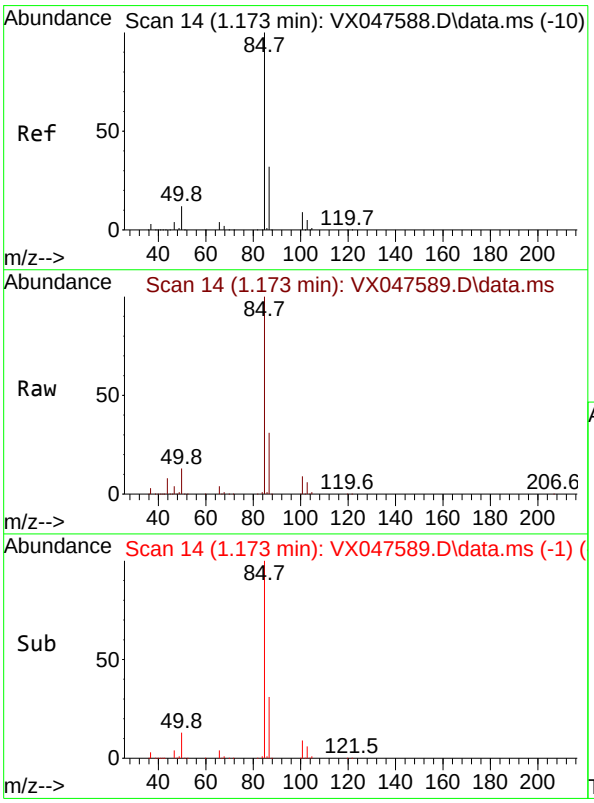
Ion	Ratio	Lower	Upper
168	100		
99	66.4	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

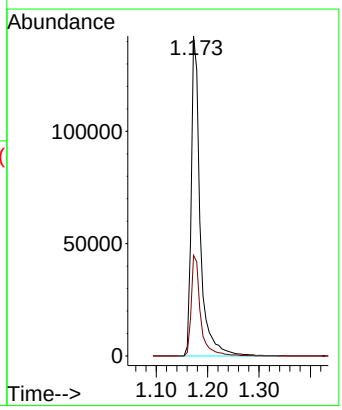
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

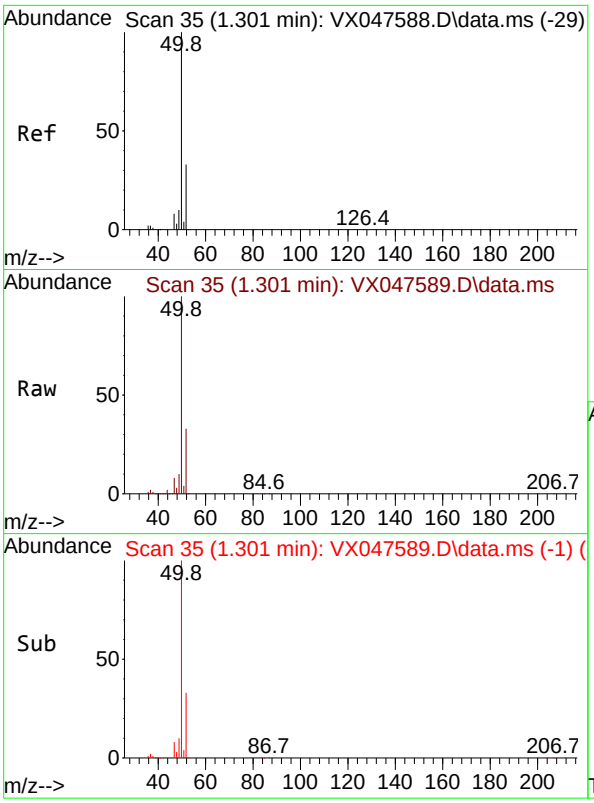


#2
Dichlorodifluoromethane
Concen: 98.537 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 85 Resp: 172727

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.8	47.3

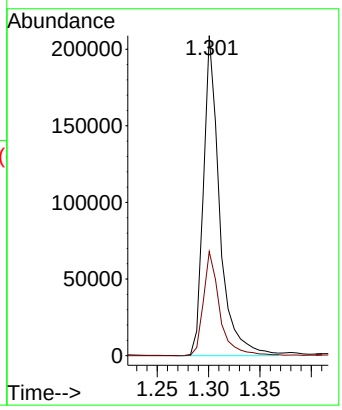




#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 50 Resp: 22916

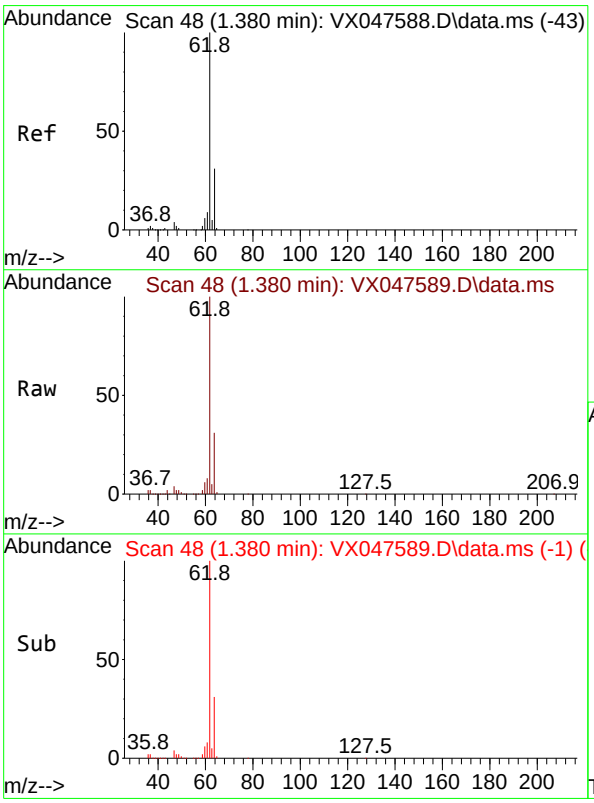
Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

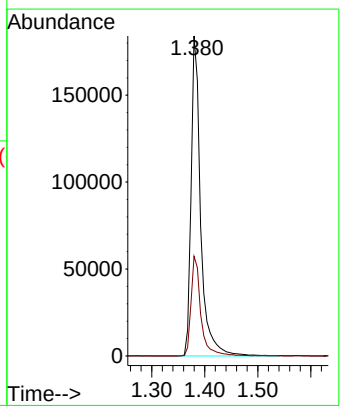
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

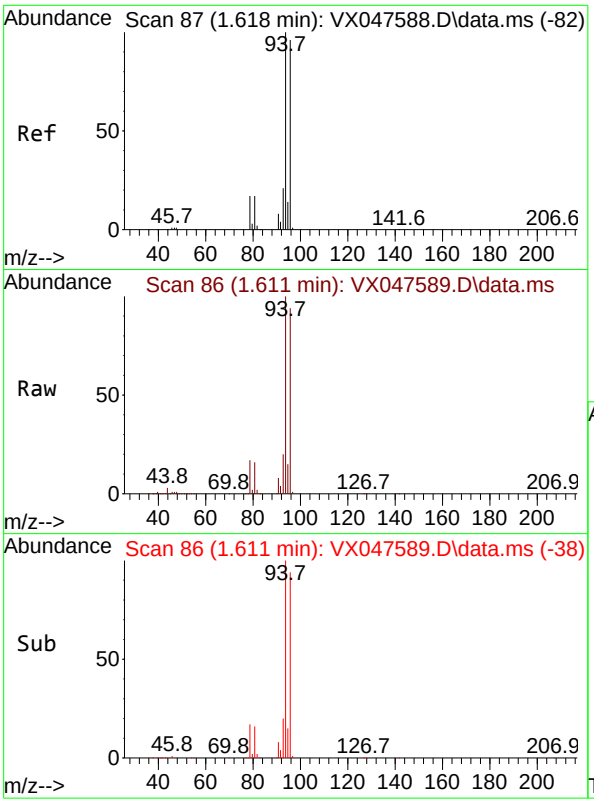


#4
Vinyl Chloride
Concen: 101.621 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 229175

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.9	37.3

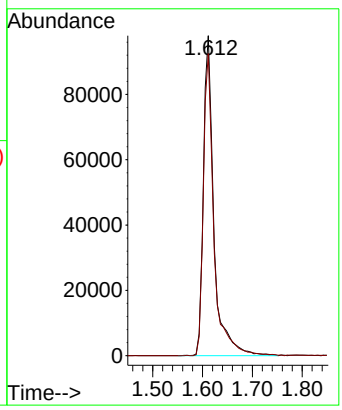




#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 94 Resp: 14311

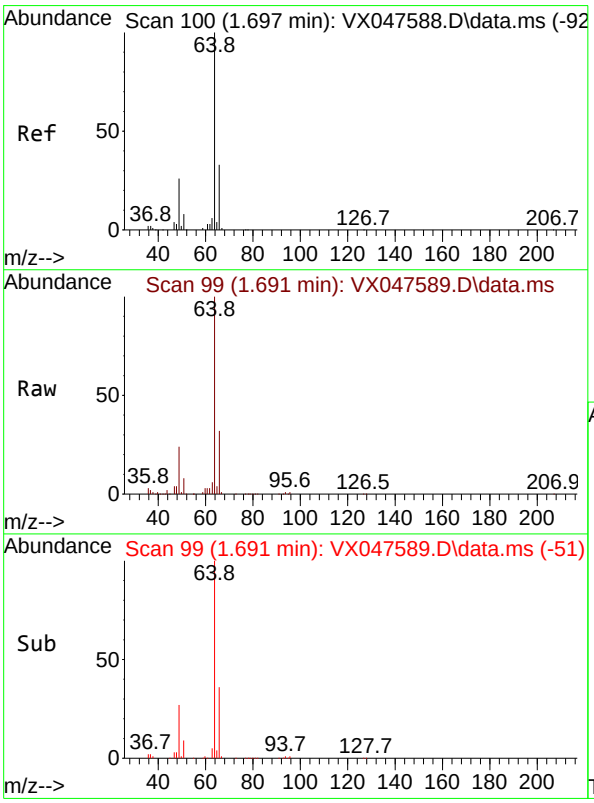
Ion	Ratio	Lower	Upper
94	100		
96	94.4	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

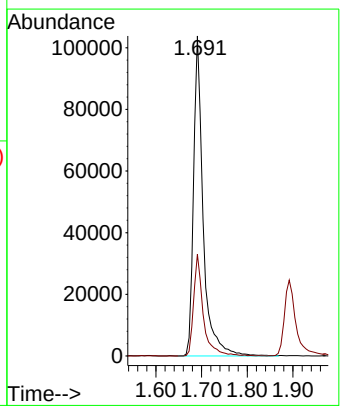
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

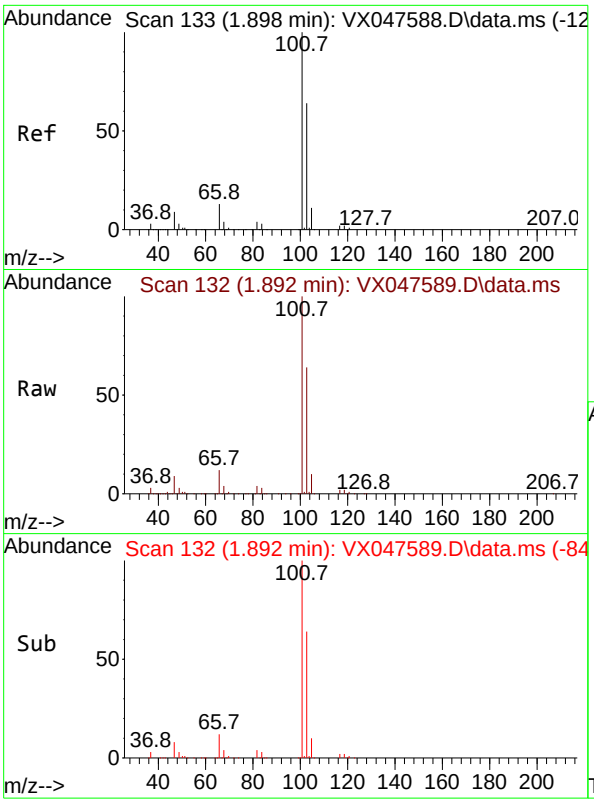


#6
Chloroethane
Concen: 101.167 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 64 Resp: 152487

Ion	Ratio	Lower	Upper
64	100		
66	31.8	26.1	39.1

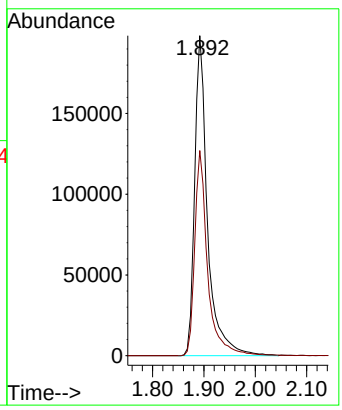




#7
Trichlorofluoromethane
Concen: 102.878 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:101 Resp: 34448

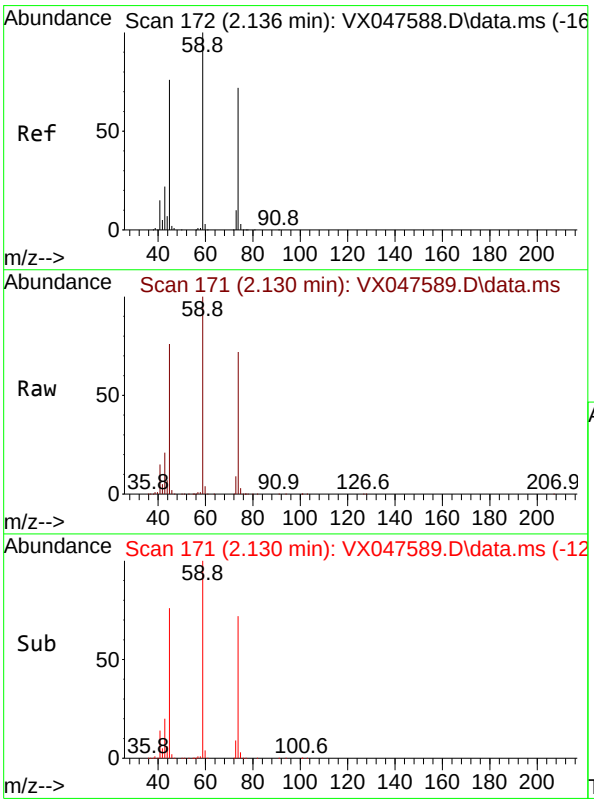
Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

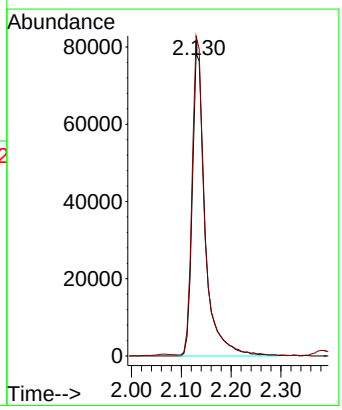
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

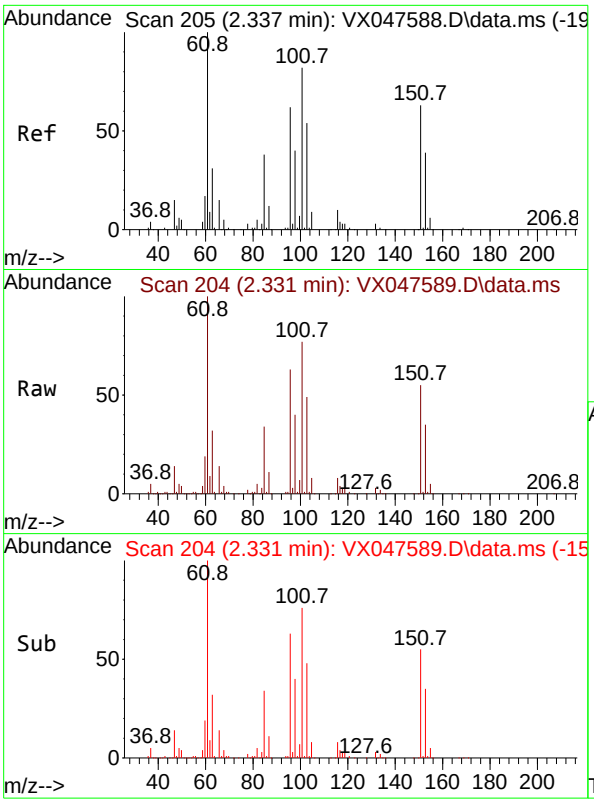


#8
Diethyl Ether
Concen: 103.695 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 74 Resp: 142038

Ion	Ratio	Lower	Upper
74	100		
45	104.6	52.3	156.8

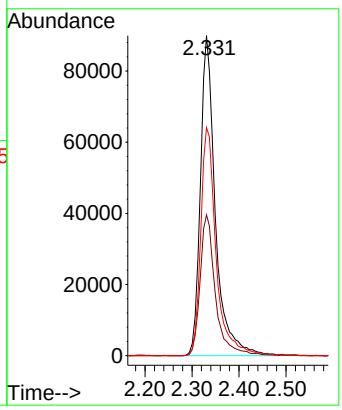




#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.067 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:101 Resp: 19984

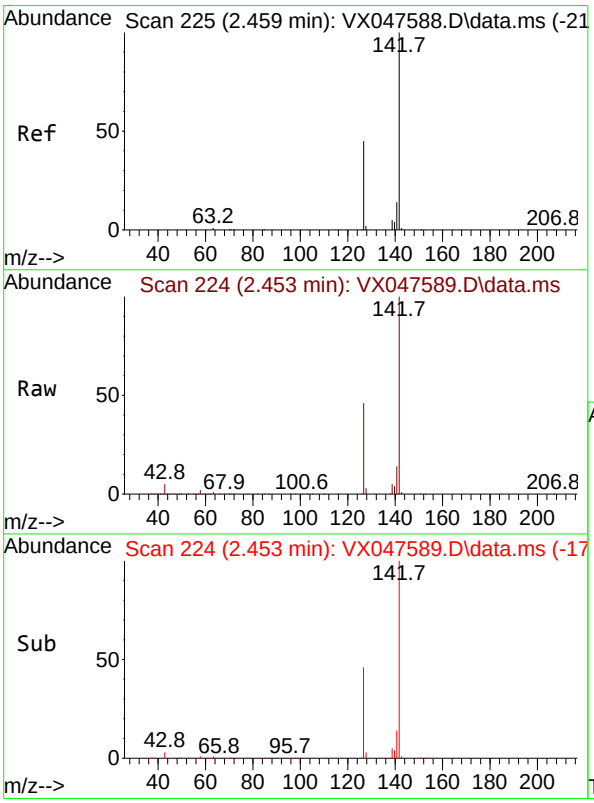
Ion	Ratio	Lower	Upper
101	100		
85	45.1	35.5	53.3
151	73.6	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

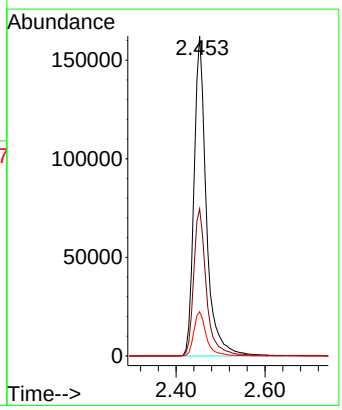
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

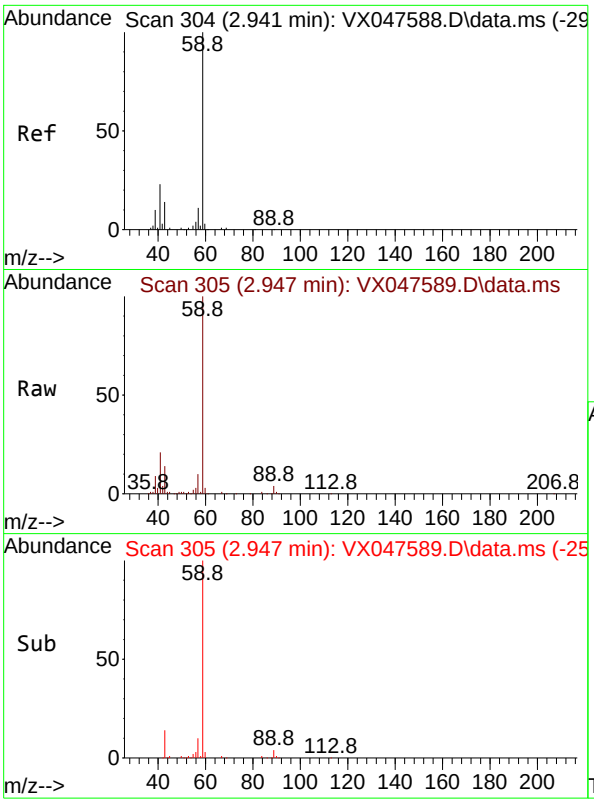


#10
Methyl Iodide
Concen: 102.531 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:142 Resp: 313092

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.1	11.4	17.0

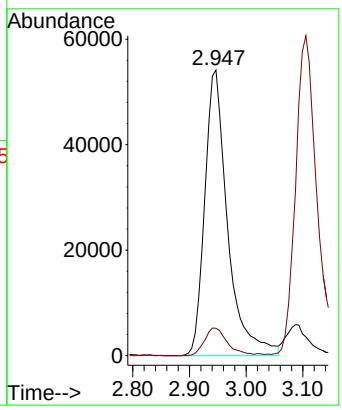




#11
Tert butyl alcohol
Concen: 506.863 ug/l
RT: 2.947 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 59 Resp: 15210

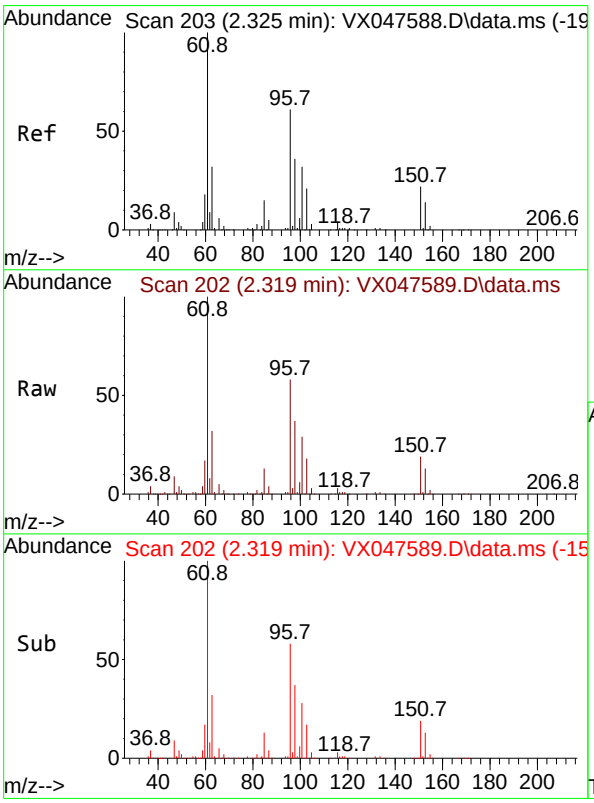
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

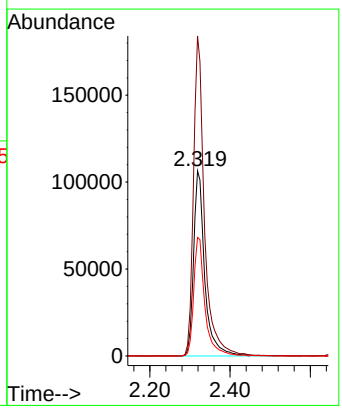
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

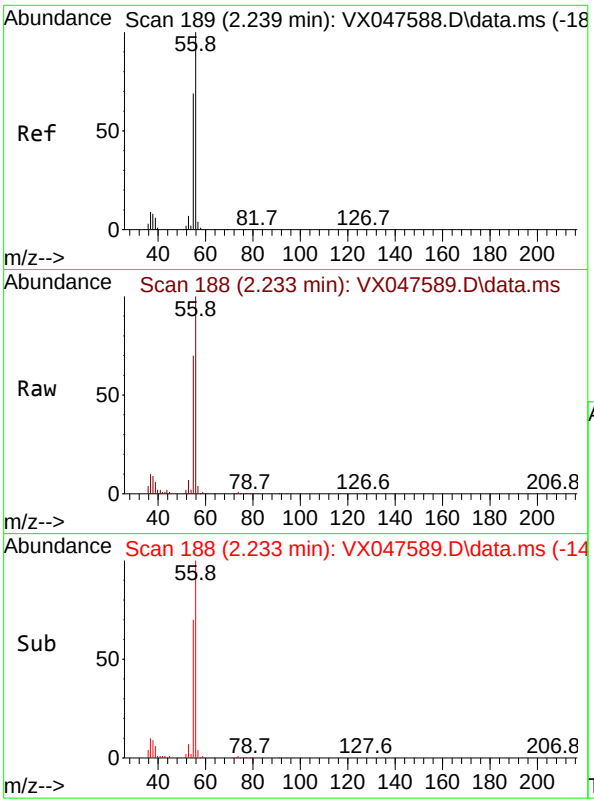


#12
1,1-Dichloroethene
Concen: 102.473 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 206097

Ion	Ratio	Lower	Upper
96	100		
61	172.9	131.0	196.6
98	64.0	47.7	71.5

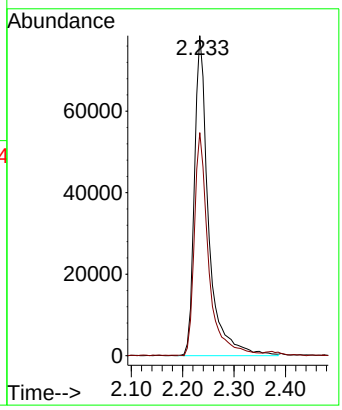




#13
Acrolein
Concen: 545.276 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 56 Resp: 15079

Ion	Ratio	Lower	Upper
56	100		
55	69.4	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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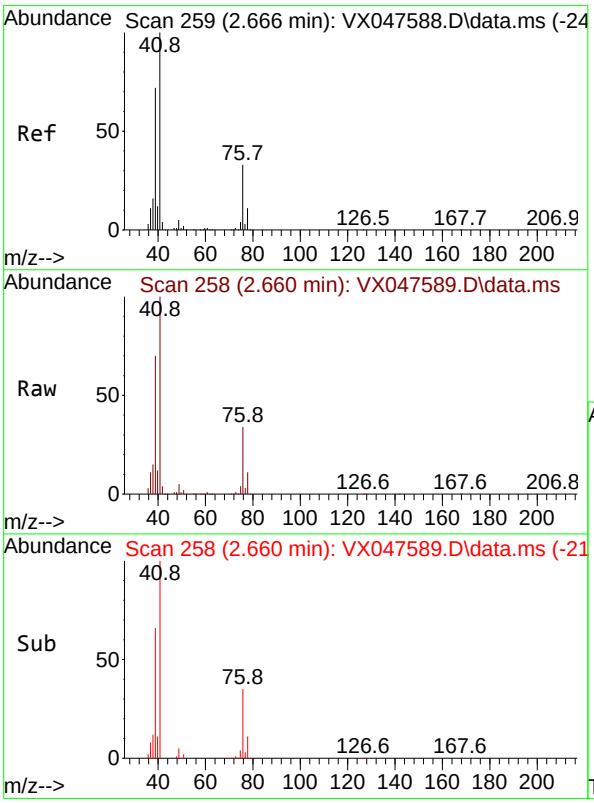
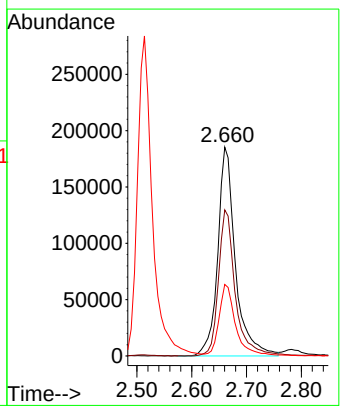
Supervised By :Mahesh Dadoda 09/18/2025

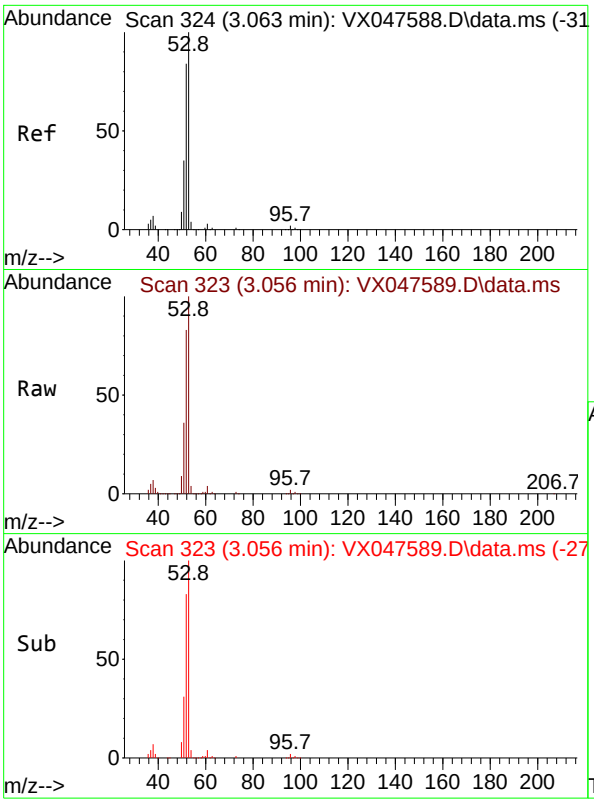


#14
Allyl chloride
Concen: 100.028 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 415140

Ion	Ratio	Lower	Upper
41	100		
39	67.0	54.7	82.1
76	32.2	25.7	38.5

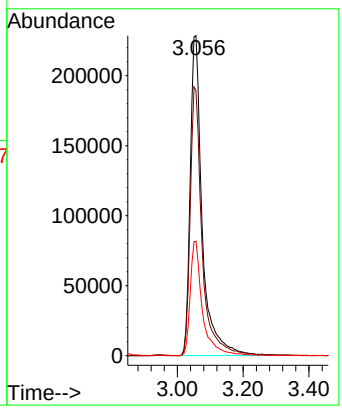




#15
Acrylonitrile
Concen: 522.897 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 53 Resp: 58124

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.4	99.6
51	36.4	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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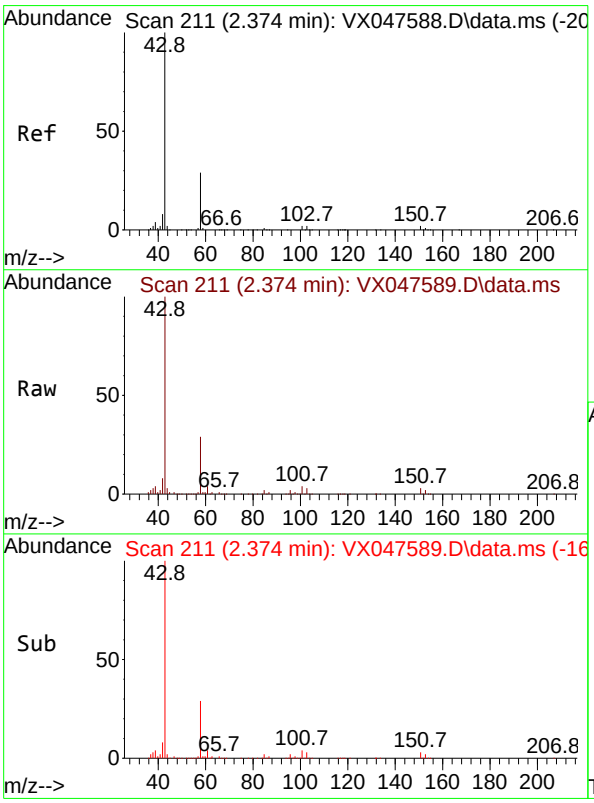
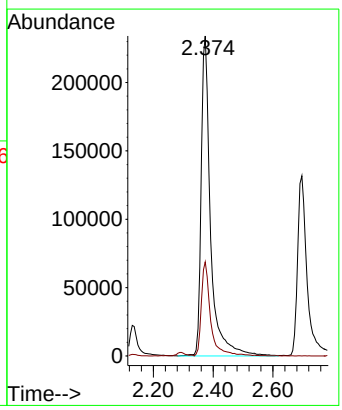
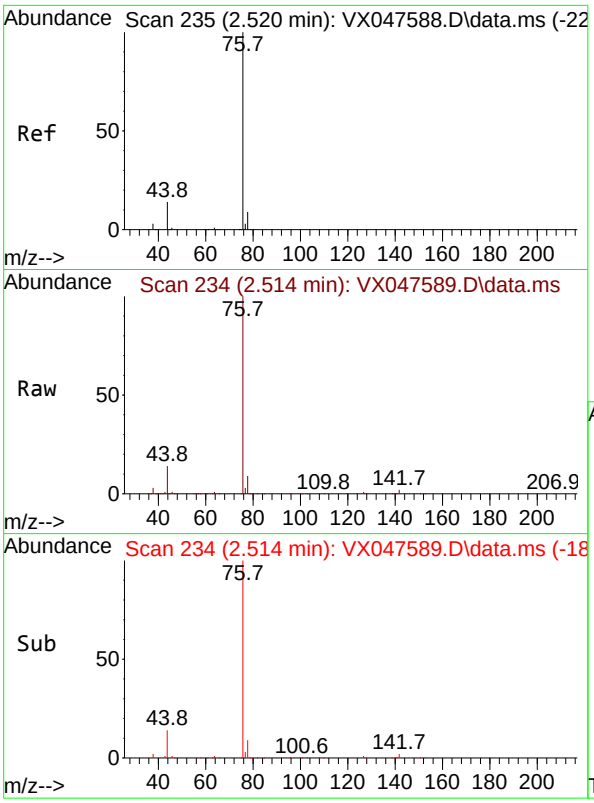


#16
Acetone
Concen: 435.772 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 510542

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0

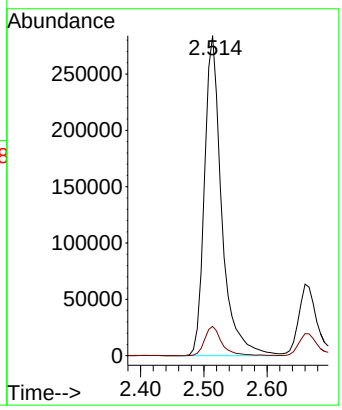




#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 76 Resp: 53788

Ion	Ratio	Lower	Upper
76	100		
78	9.2	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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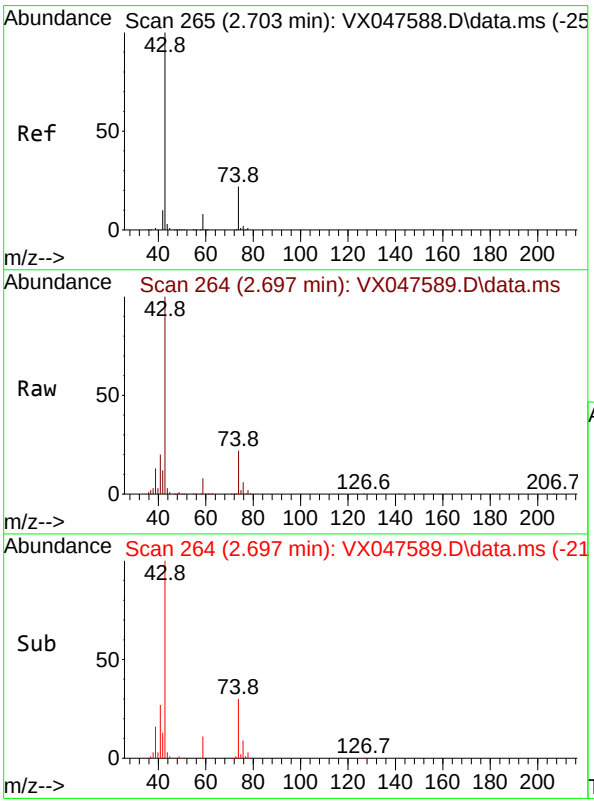
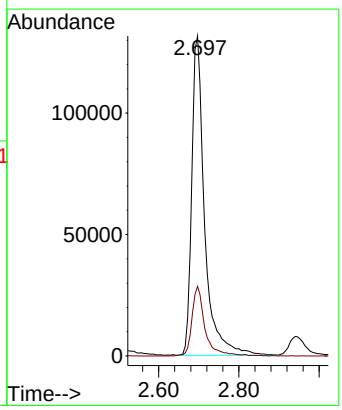
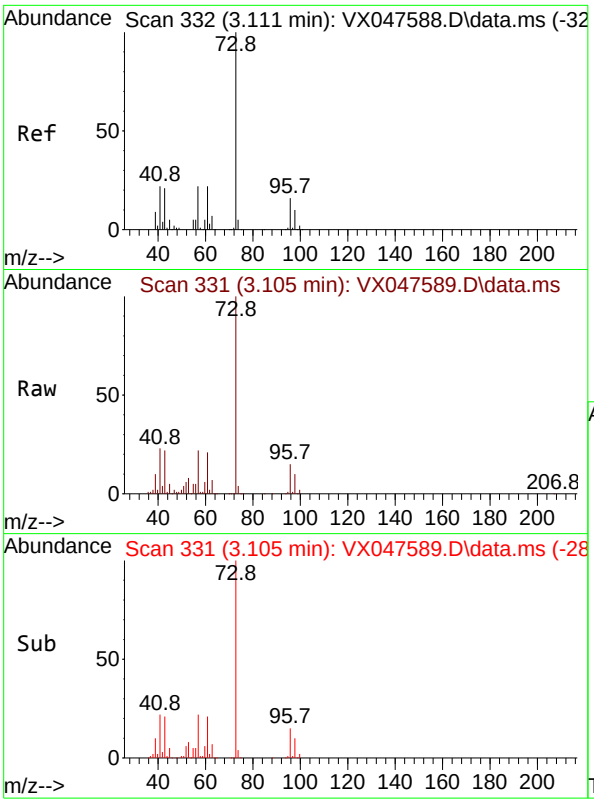


#18
Methyl Acetate
Concen: 112.324 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 292867

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

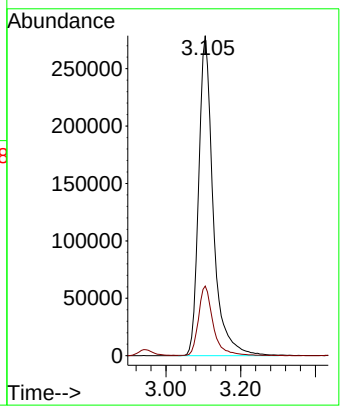




#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 73 Resp: 74895

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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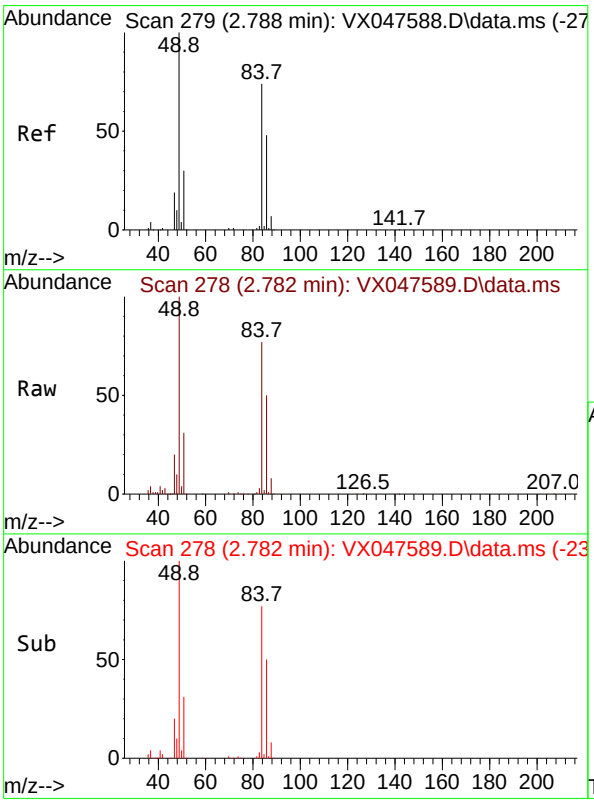
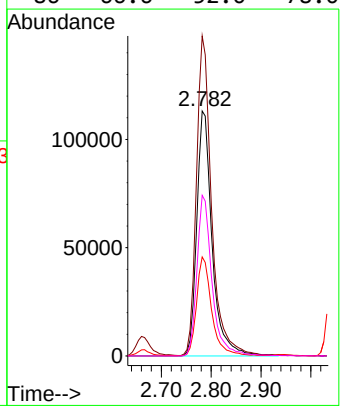
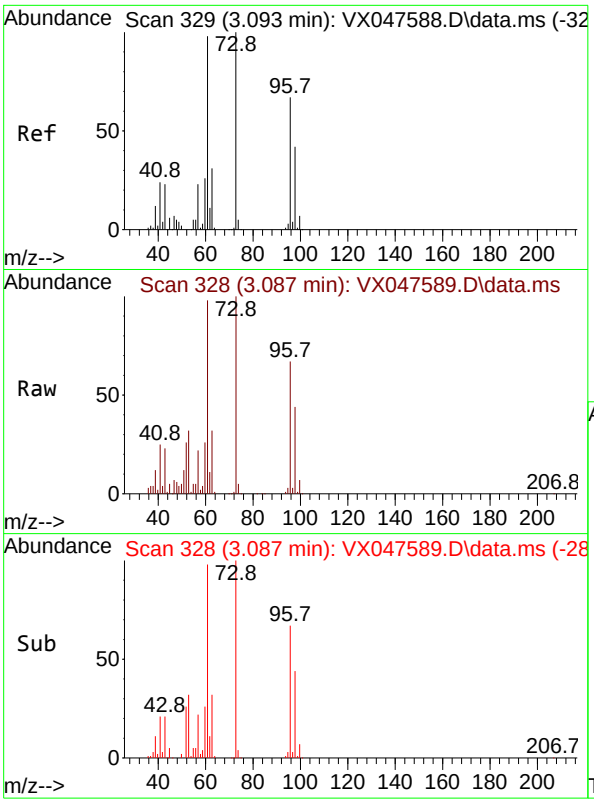


#20
Methylene Chloride
Concen: 97.805 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 84 Resp: 242548

Ion	Ratio	Lower	Upper
84	100		
49	130.4	108.6	162.8
51	40.3	32.6	48.8
86	66.6	52.0	78.0

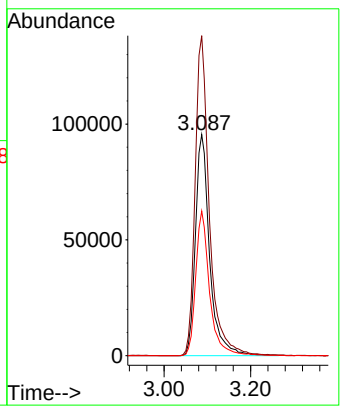




#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 21775

Ion	Ratio	Lower	Upper
96	100		
61	144.7	116.2	174.2
98	65.4	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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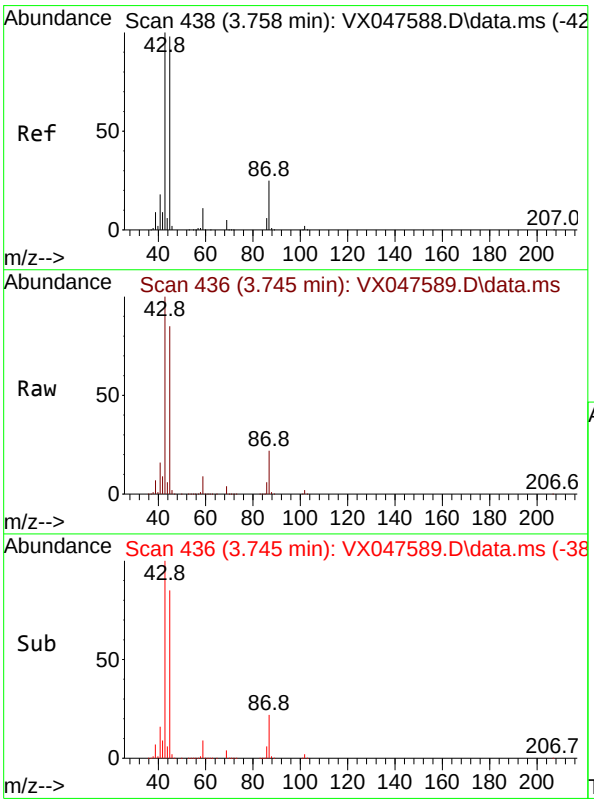
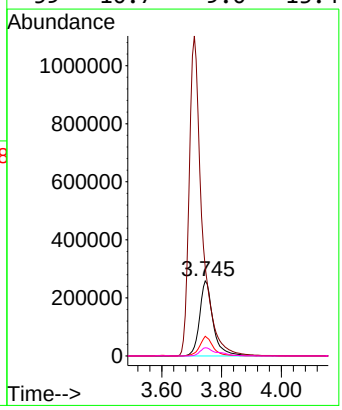
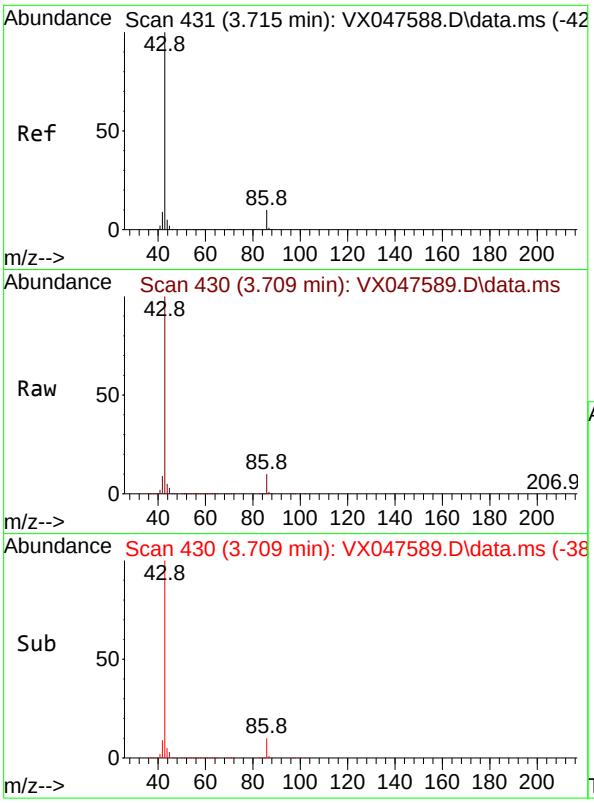


#22
Diisopropyl ether
Concen: 100.934 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 45 Resp: 811840

Ion	Ratio	Lower	Upper
45	100		
43	117.3	81.0	121.4
87	26.1	20.3	30.5
59	10.7	9.0	13.4

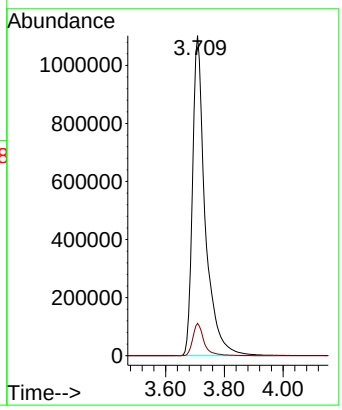




#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 331470

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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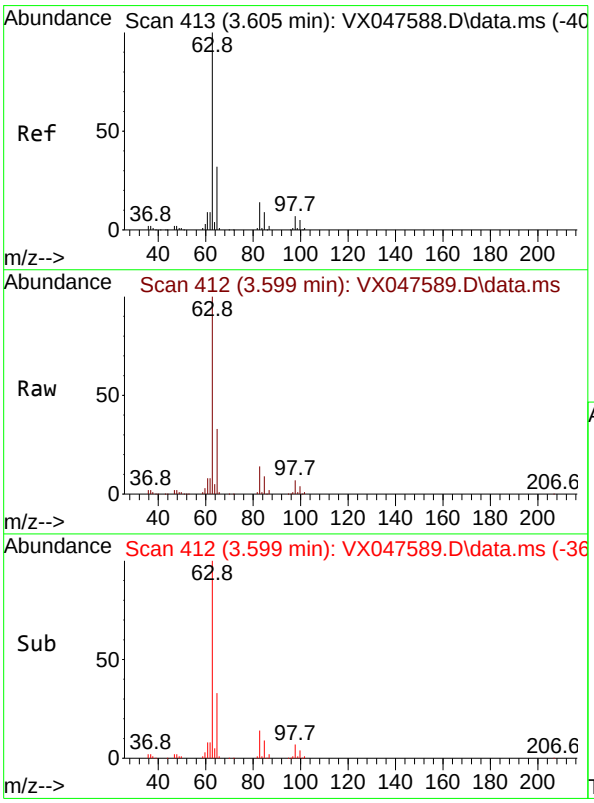
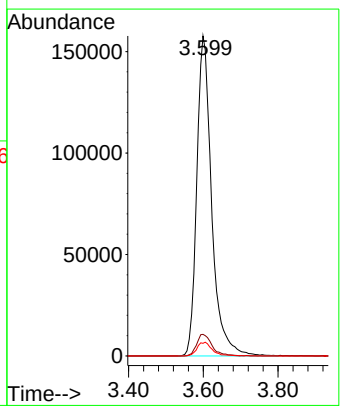
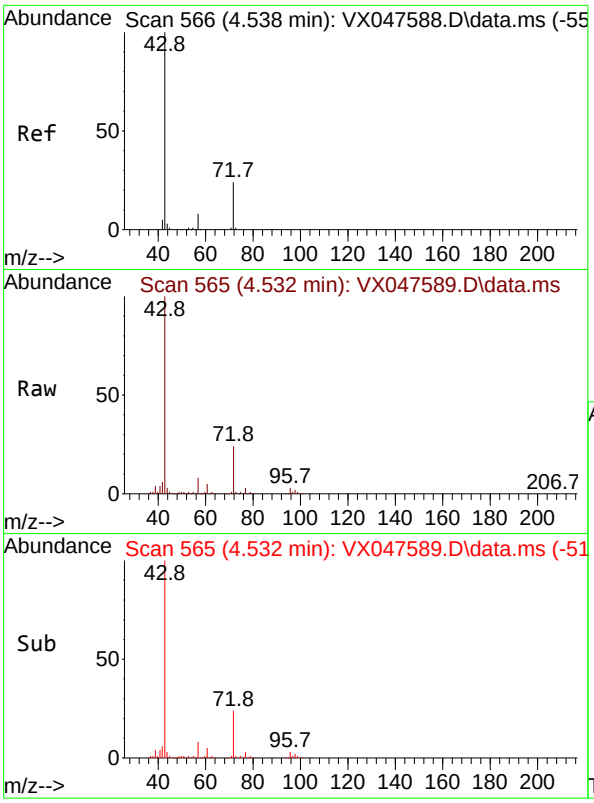


#24
1,1-Dichloroethane
Concen: 101.944 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 435815

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.0	2.3	6.9





#25
2-Butanone
Concen: 479.558 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 70082

Ion	Ratio	Lower	Upper
43	100		
72	23.8	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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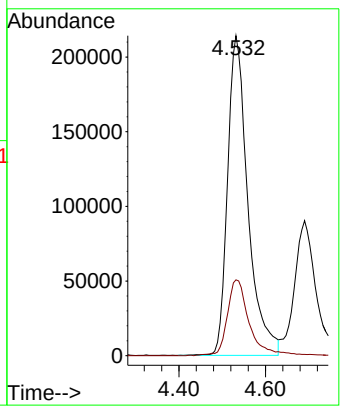
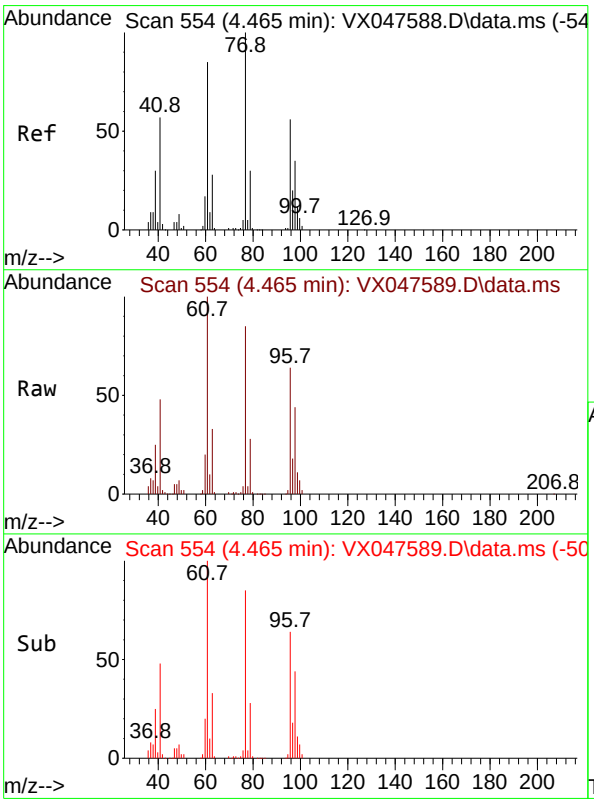
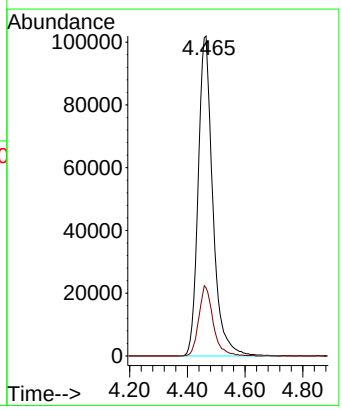


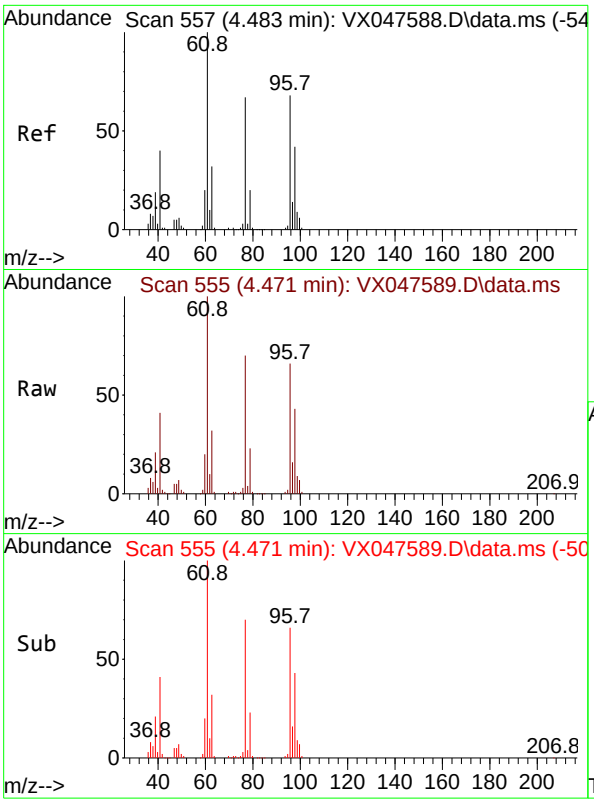


#26
2,2-Dichloropropane
Concen: 100.542 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 77 Resp: 357292

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.9	32.7

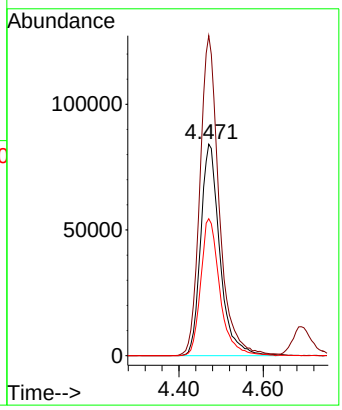




#27
cis-1,2-Dichloroethene
Concen: 100.516 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 96 Resp: 26655

Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	303.2
98	64.4	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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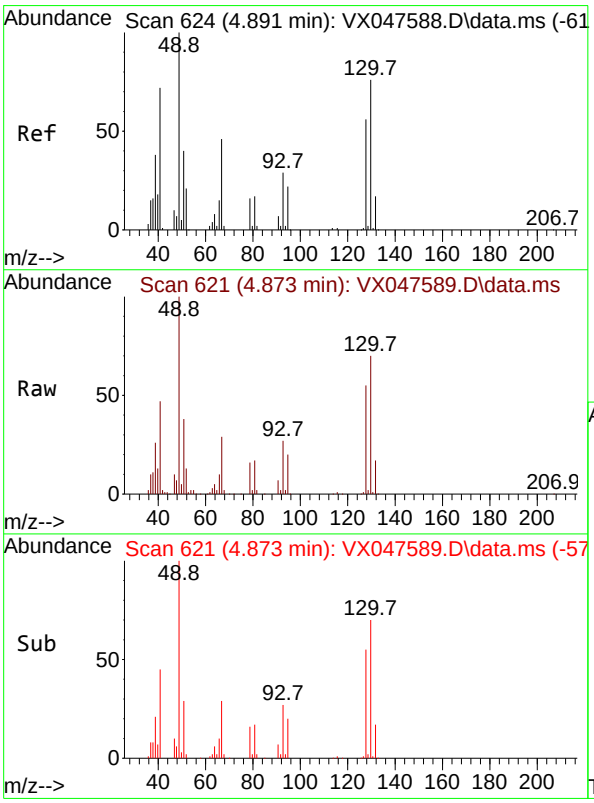
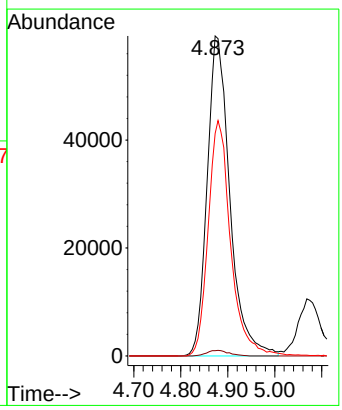
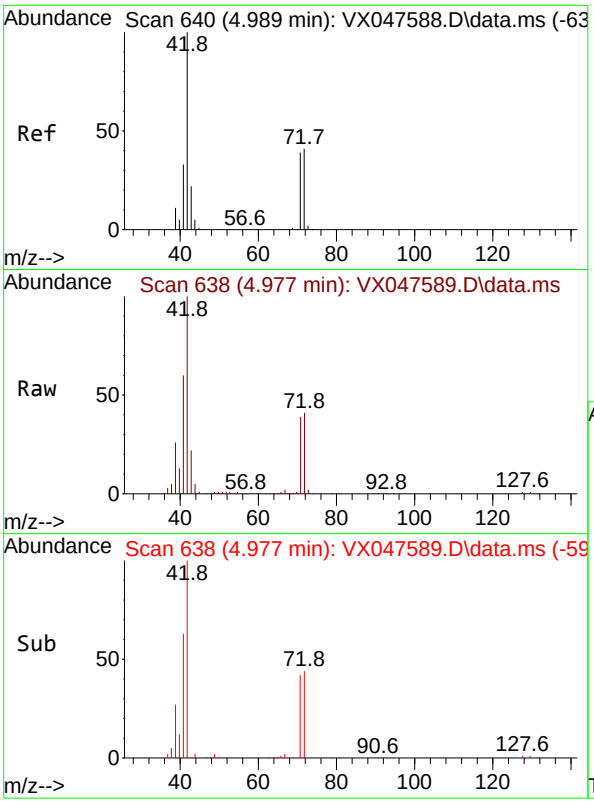


#28
Bromochloromethane
Concen: 106.512 ug/l
RT: 4.873 min Scan# 621
Delta R.T. -0.018 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 49 Resp: 198788

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	72.8	57.8	86.8





#29
Tetrahydrofuran
Concen: 504.502 ug/l
RT: 4.977 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 42 Resp: 44353

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.2	51.2
71	39.5	31.9	47.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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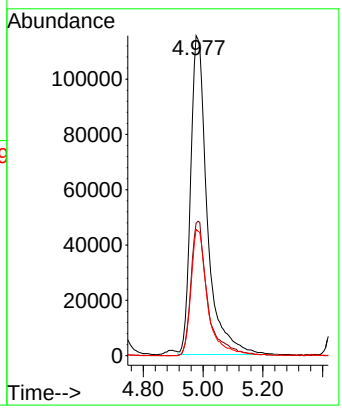
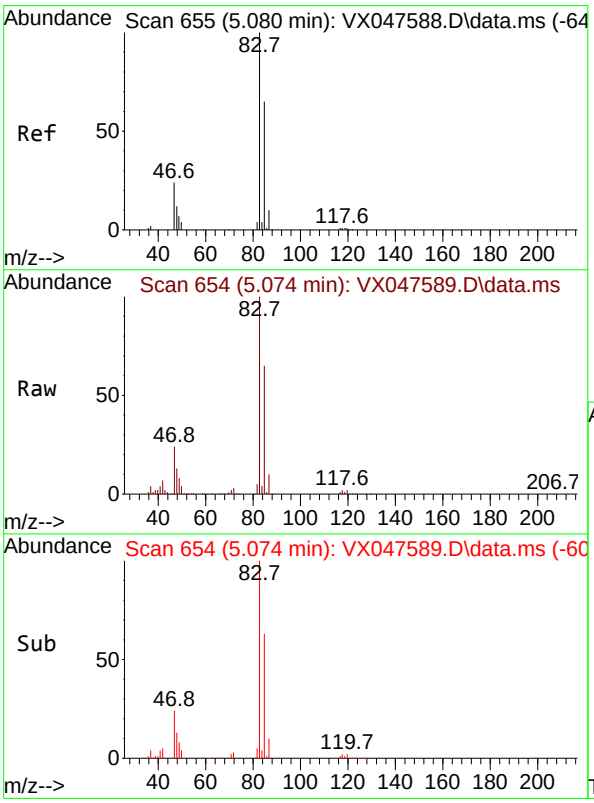
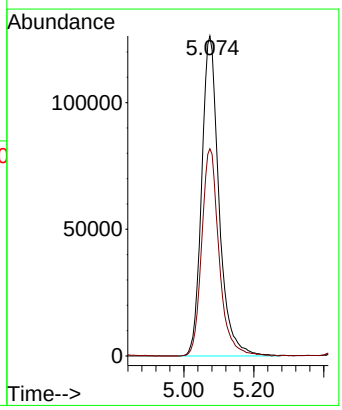


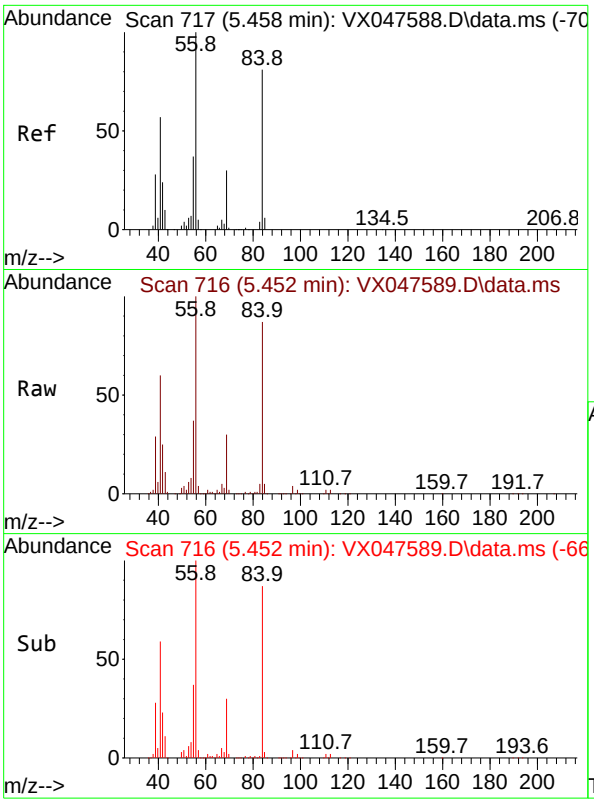


#30
Chloroform
Concen: 100.447 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 433937

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.6

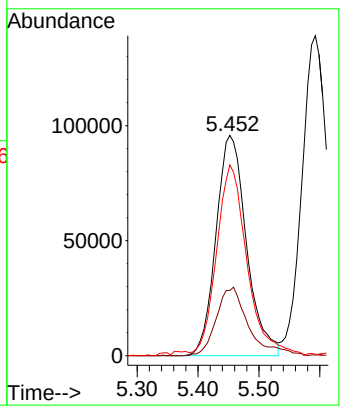




#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 56 Resp: 33299

Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.8	35.8
84	84.7	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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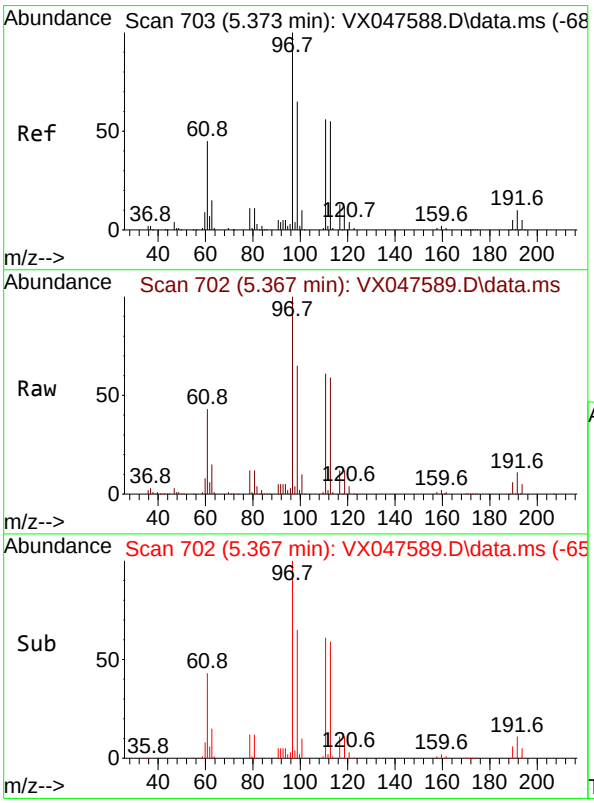
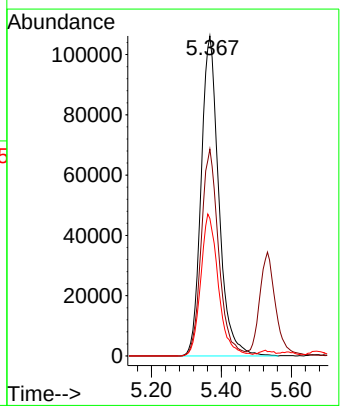
Supervised By :Mahesh Dadoda 09/18/2025

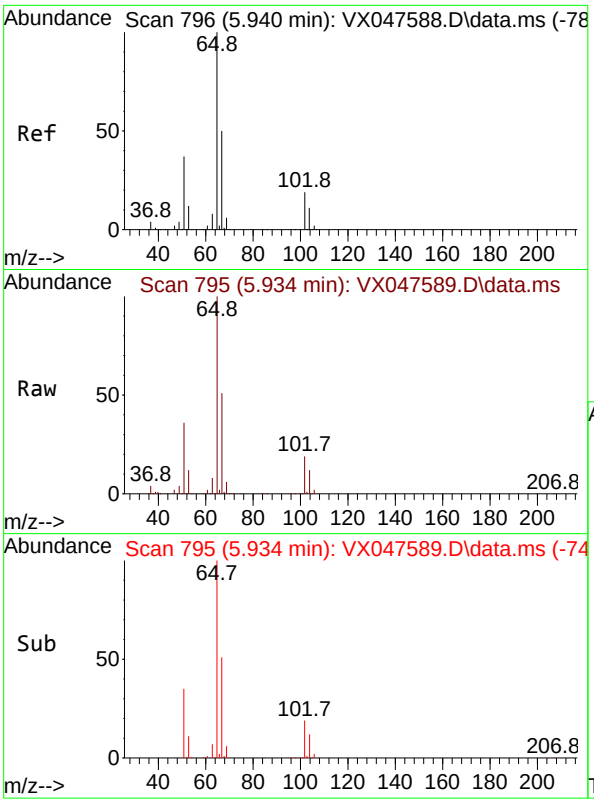


#32
1,1,1-Trichloroethane
Concen: 101.607 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 372323

Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.6	76.0
61	44.4	35.8	53.8

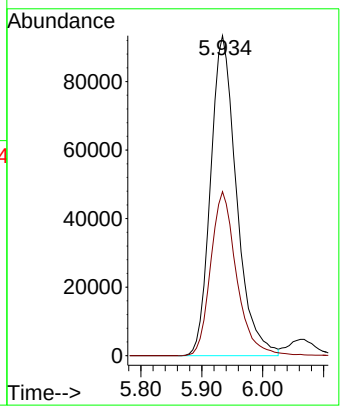




#33
1,2-Dichloroethane-d4
Concen: 102.341 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 65 Resp: 27575

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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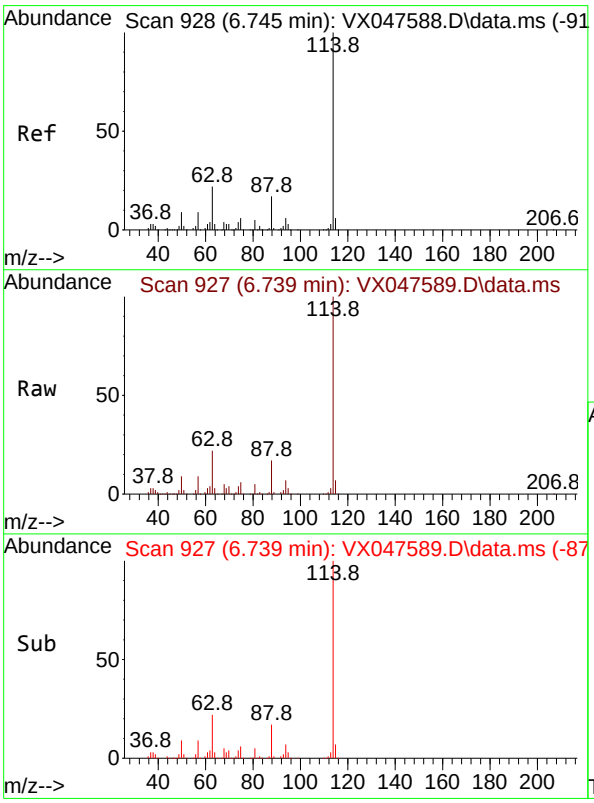
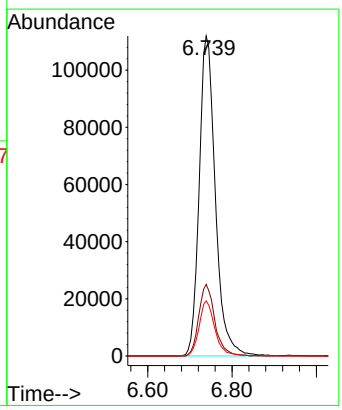
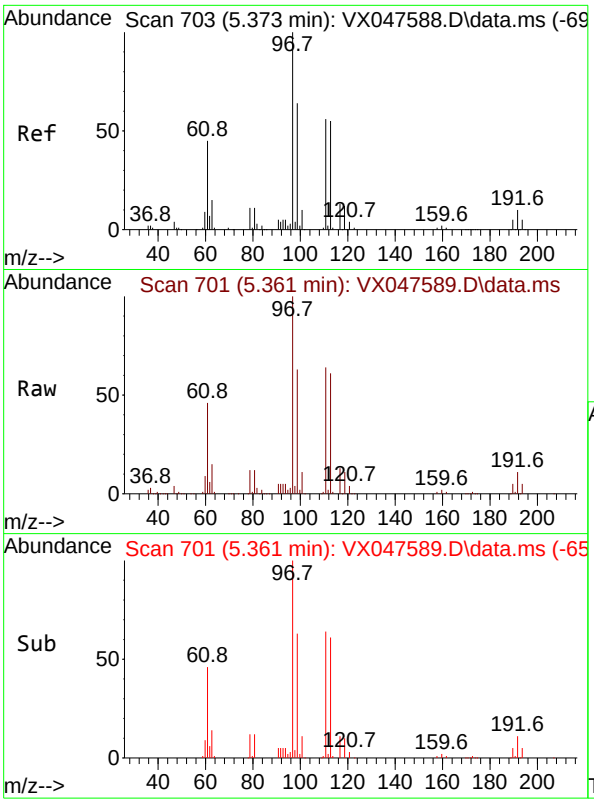


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.739 min Scan# 927
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:114 Resp: 298913

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	17.2	0.0	34.2

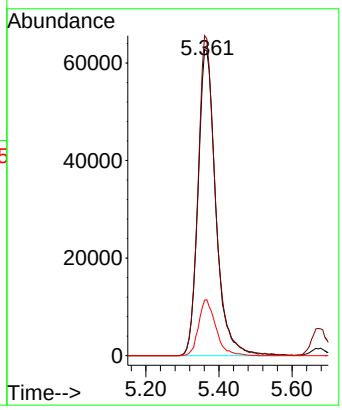




#35
Dibromofluoromethane
Concen: 105.962 ug/l
RT: 5.361 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:113 Resp: 21241

Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.9	121.3
192	17.7	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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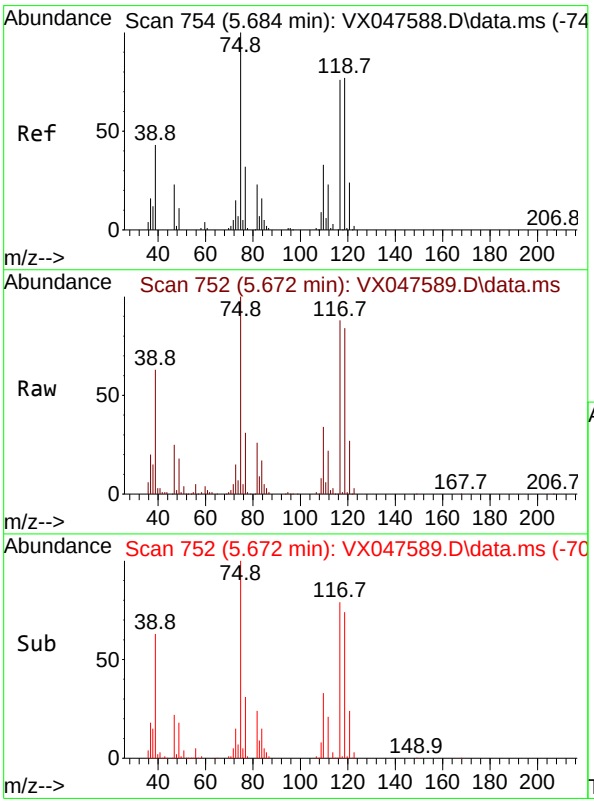
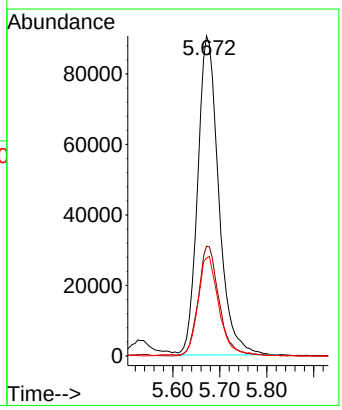
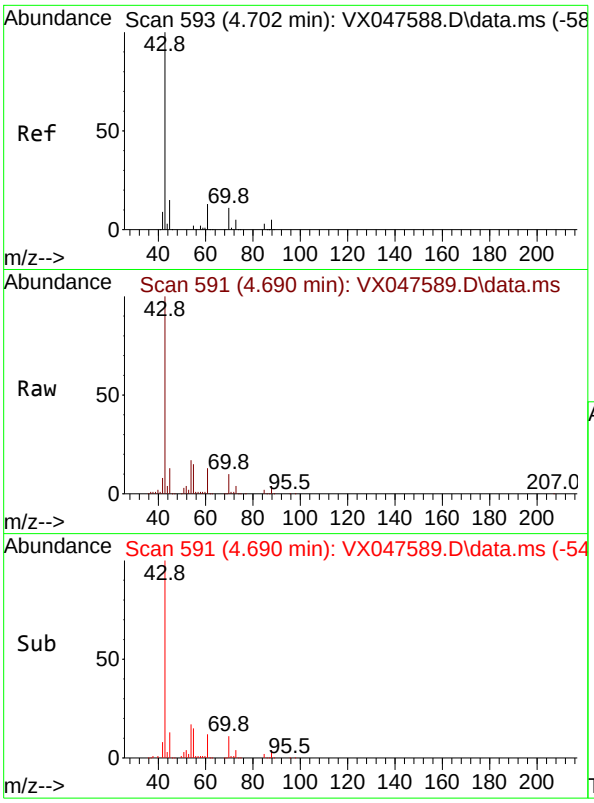


#36
1,1-Dichloropropene
Concen: 96.149 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 281650

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	31.3	24.3	36.5

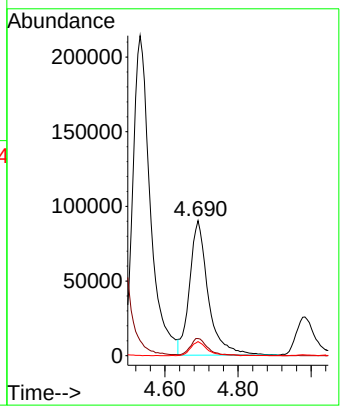




#37
Ethyl Acetate
Concen: 101.641 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 31879

Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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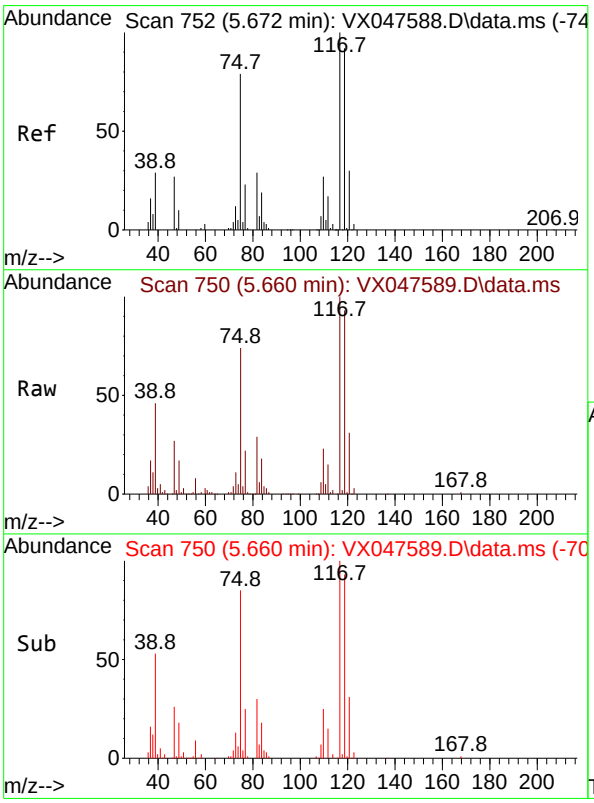
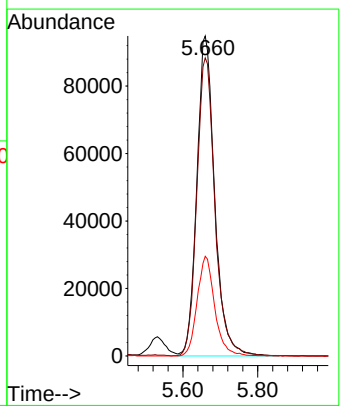
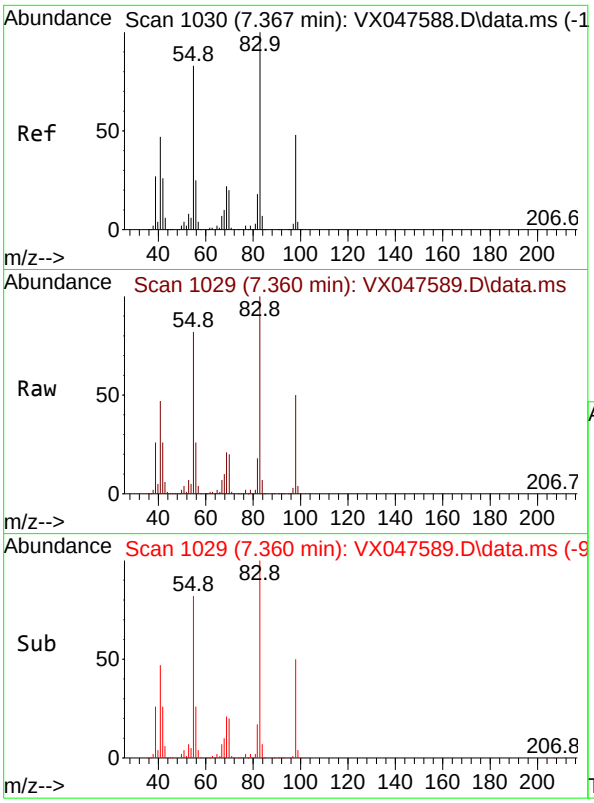


#38
Carbon Tetrachloride
Concen: 98.891 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 314745

Ion	Ratio	Lower	Upper
117	100		
119	93.0	73.4	110.2
121	31.2	23.8	35.6





#39
Methylcyclohexane
Concen: 98.600 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 32785

Ion	Ratio	Lower	Upper
83	100		
55	81.8	66.4	99.6
98	49.8	38.1	57.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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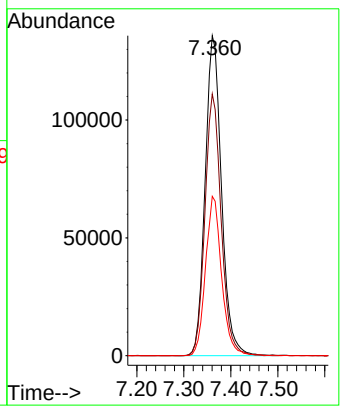
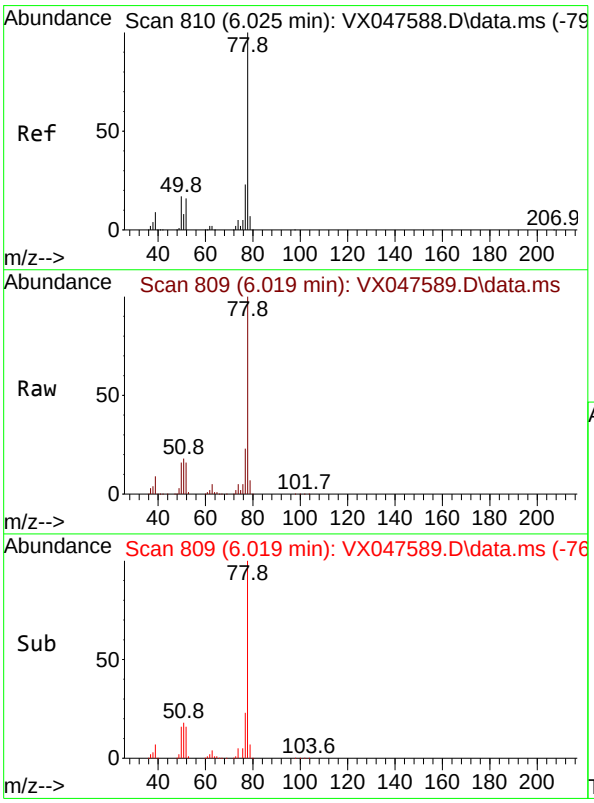
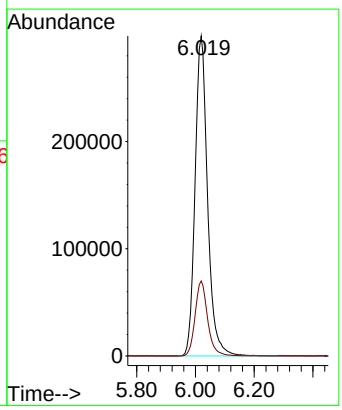


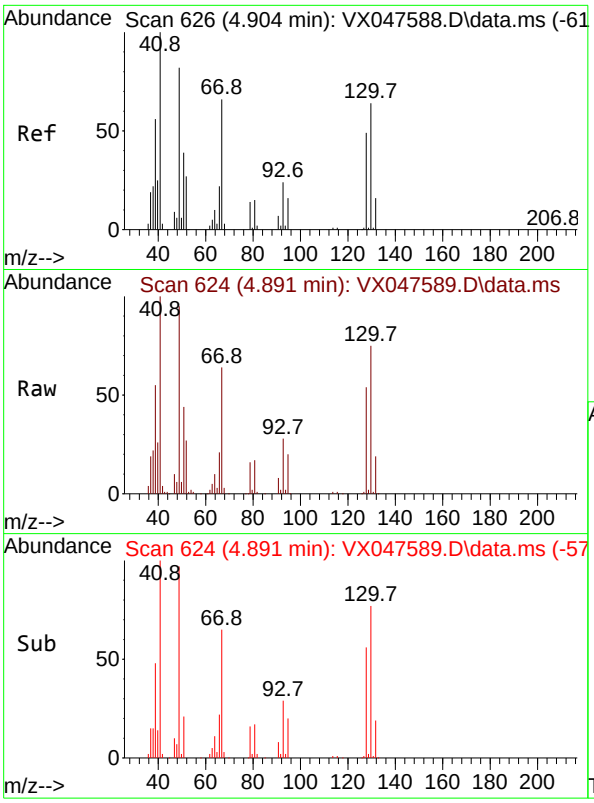


#40
Benzene
Concen: 99.009 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 78 Resp: 880885

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

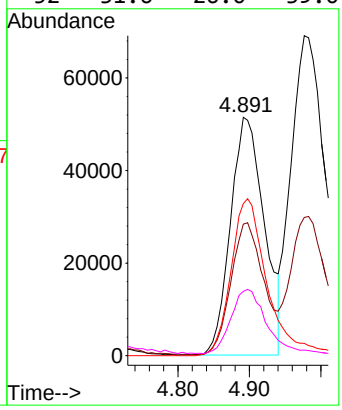




#41
Methacrylonitrile
Concen: 104.220 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 16875

Ion	Ratio	Lower	Upper
41	100		
39	54.6	43.3	64.9
67	72.1	58.6	87.8
52	31.6	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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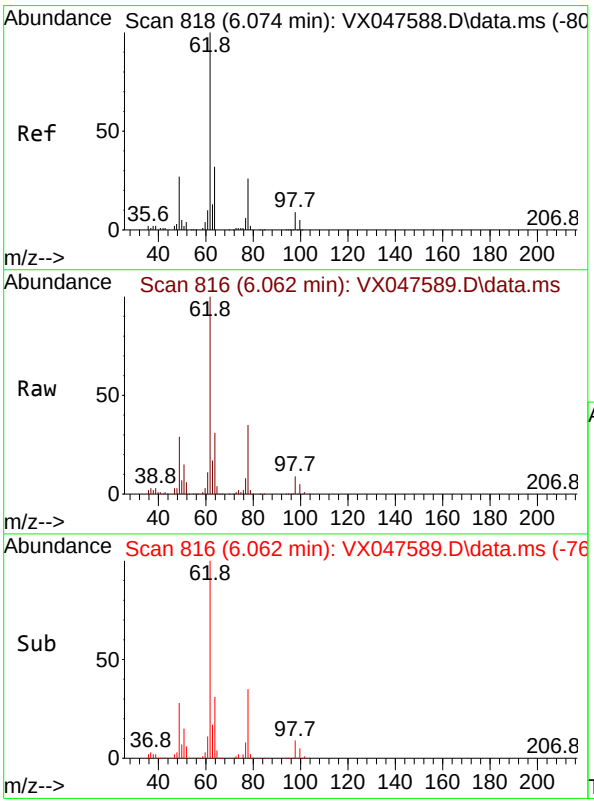
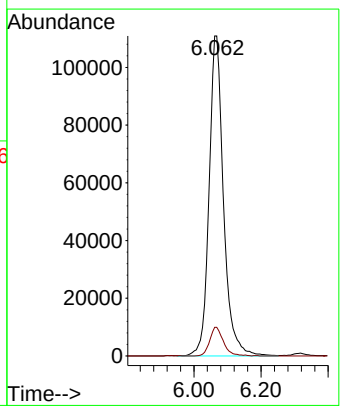
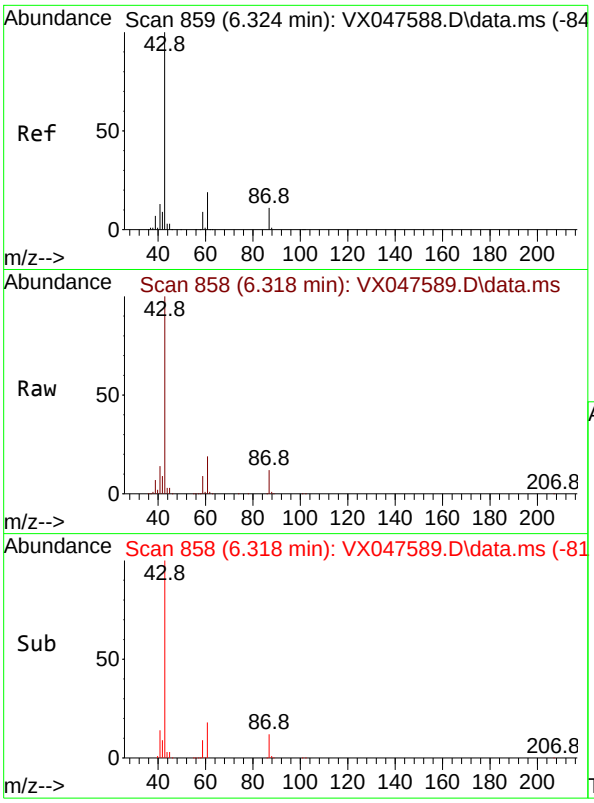


#42
1,2-Dichloroethane
Concen: 97.916 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 331465

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.0

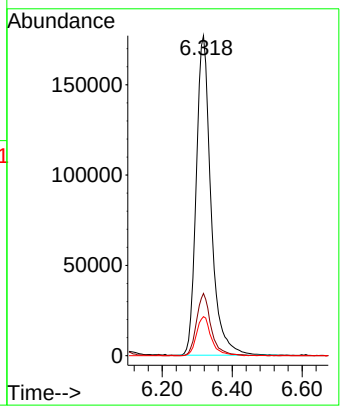




#43
Isopropyl Acetate
Concen: 100.482 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 51687

Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.3	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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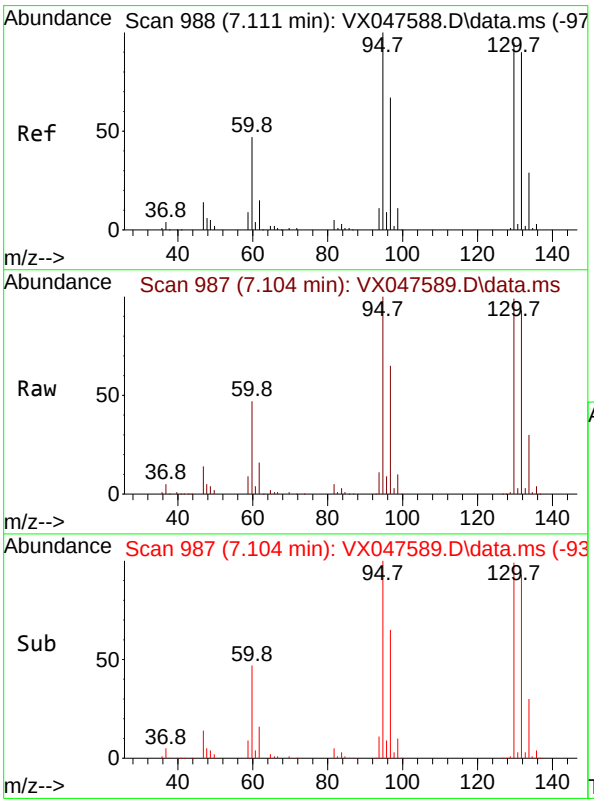
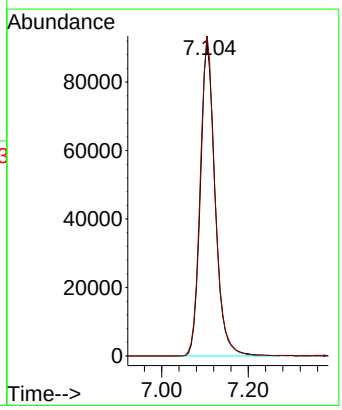
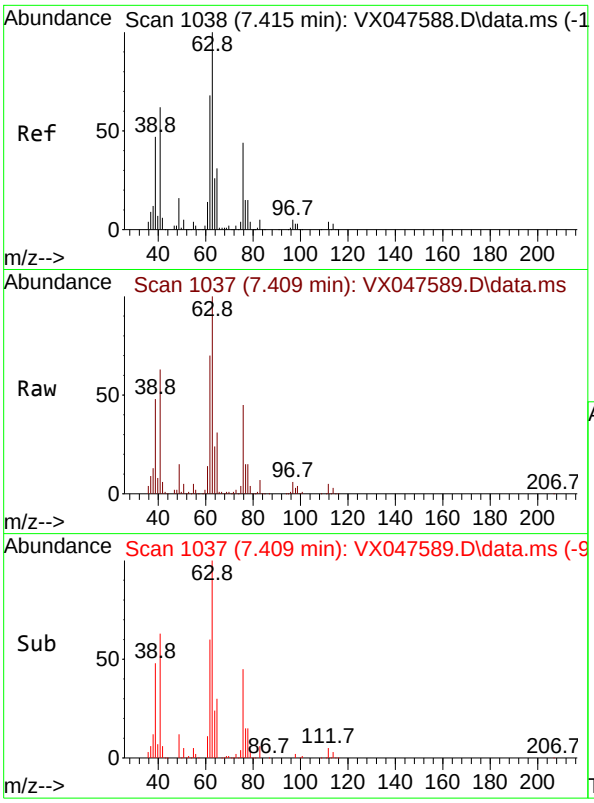


#44
Trichloroethene
Concen: 101.234 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:130 Resp: 217753

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	210.8

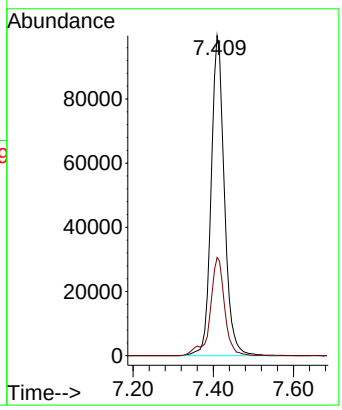




#45
1,2-Dichloropropane
Concen: 100.145 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 22815

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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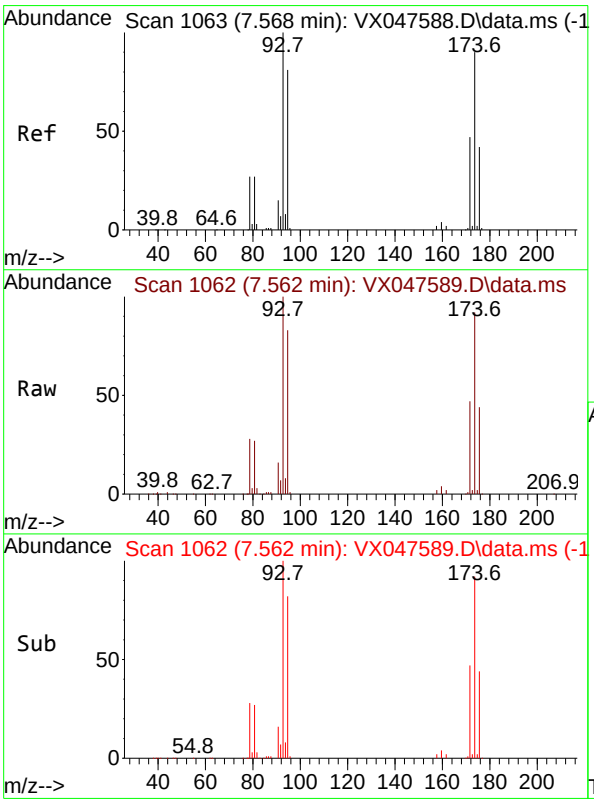
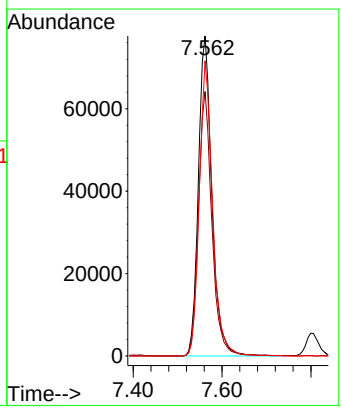
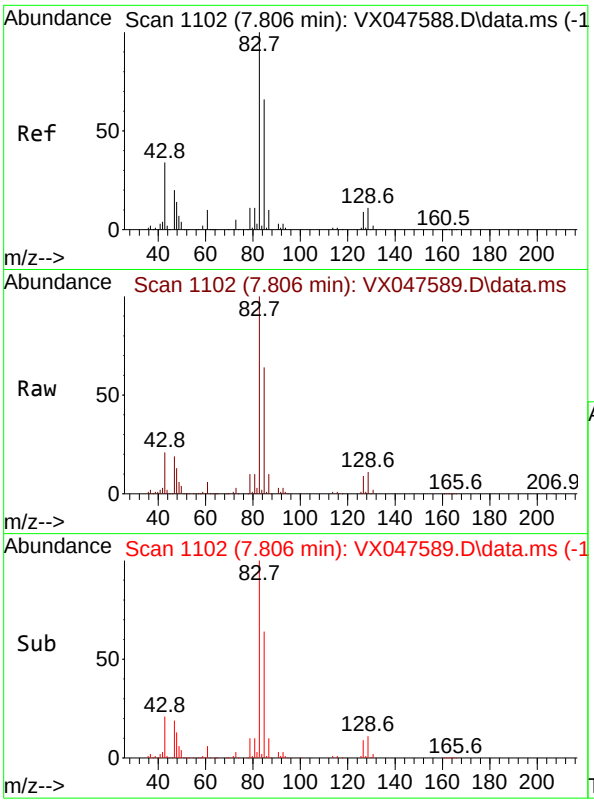


#46
Dibromomethane
Concen: 99.519 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 93 Resp: 164987

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.0	97.6
174	90.5	71.6	107.4

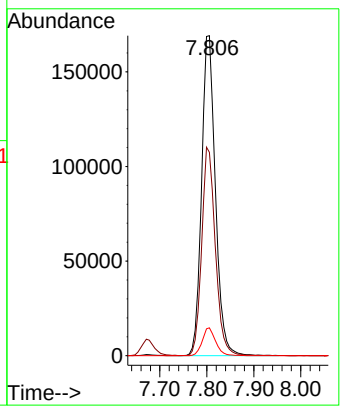




#47
Bromodichloromethane
Concen: 101.136 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 34599

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.7	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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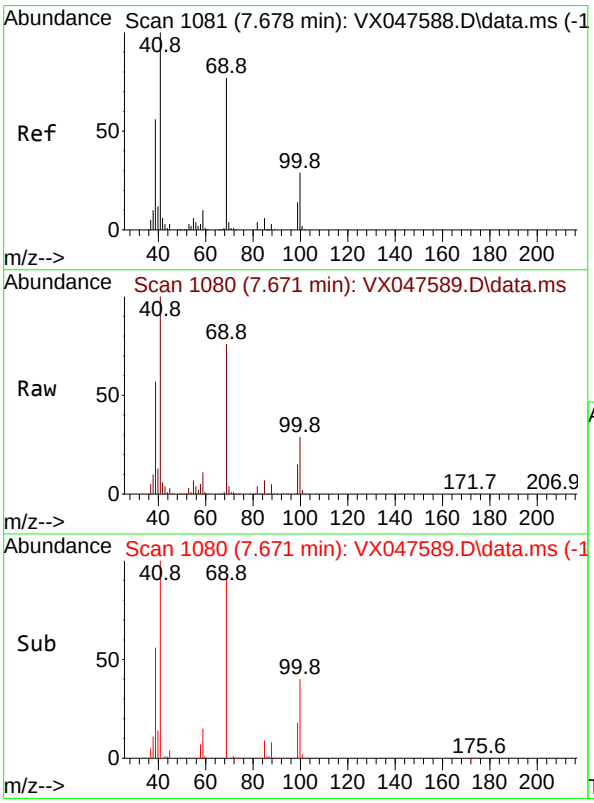
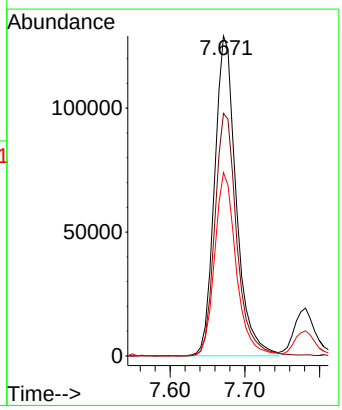
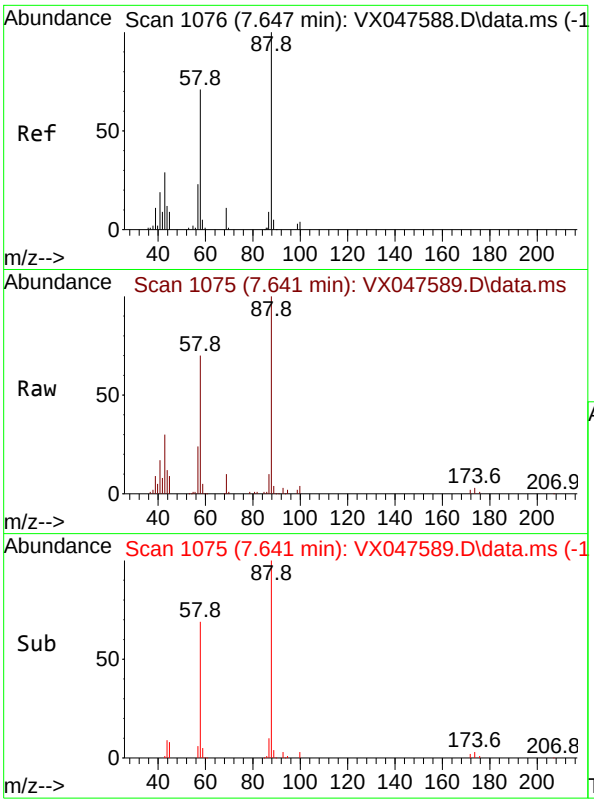


#48
Methyl methacrylate
Concen: 101.612 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 260358

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	57.0	45.8	68.6

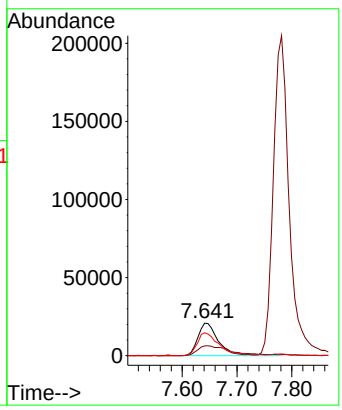




#49
1,4-Dioxane
Concen: 2190.315 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 88 Resp: 5671

Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.2	45.2
58	74.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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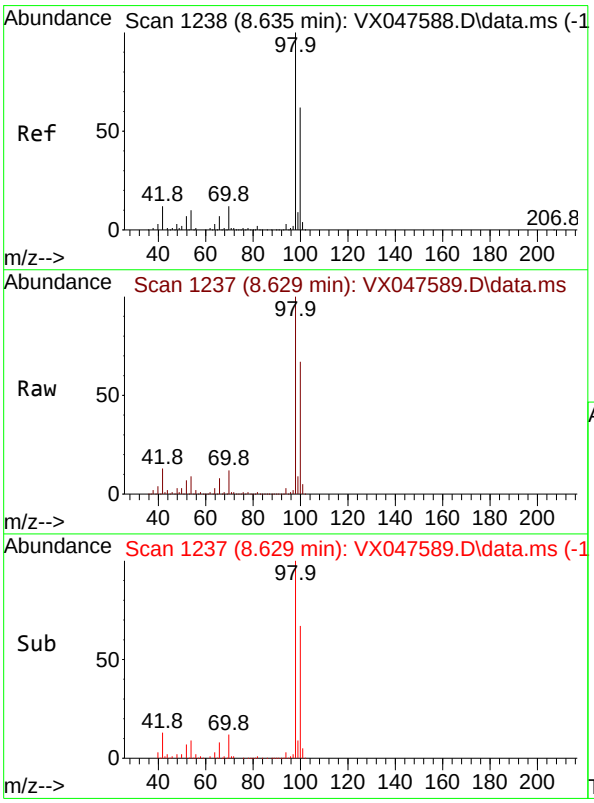
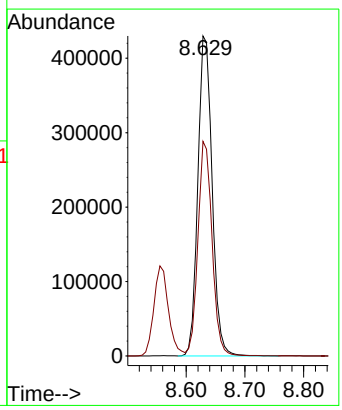
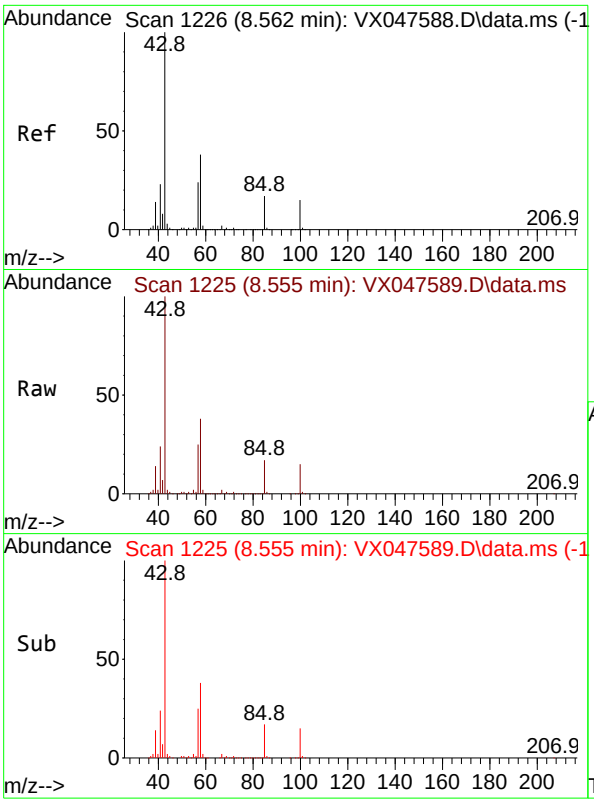


#50
Toluene-d8
Concen: 104.386 ug/l
RT: 8.629 min Scan# 1237
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 98 Resp: 724078

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

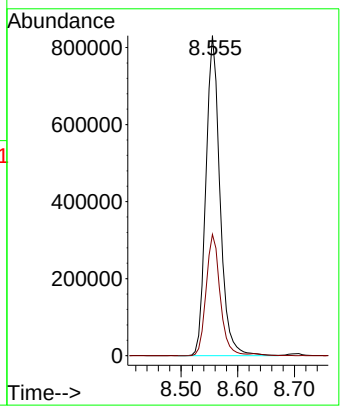




#51
4-Methyl-2-Pentanone
Concen: 501.834 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 143125

Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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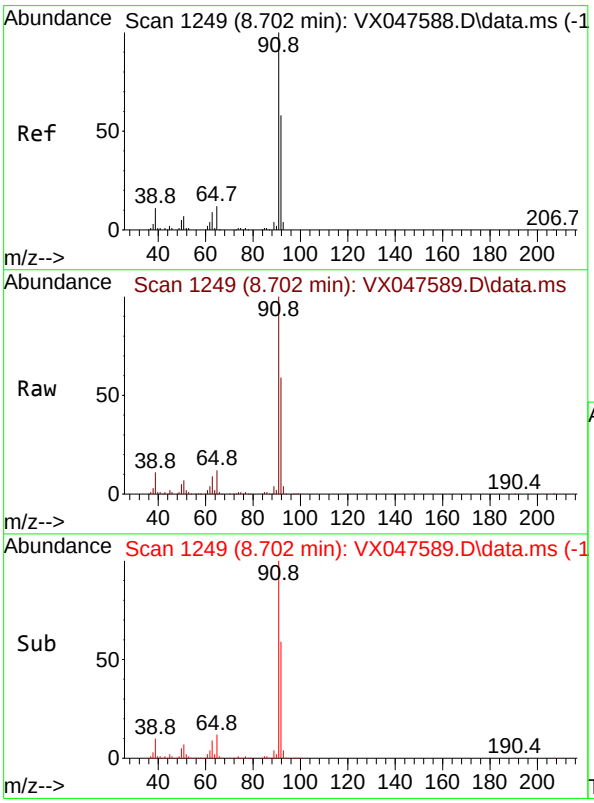
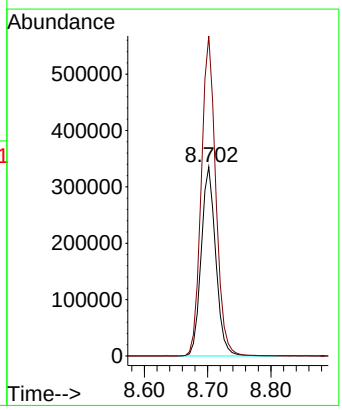
Supervised By :Mahesh Dadoda 09/18/2025

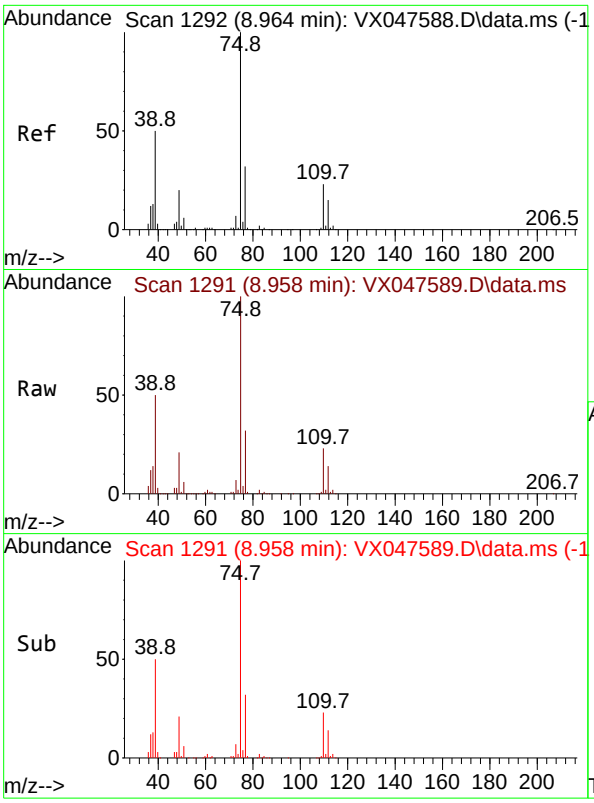


#52
Toluene
Concen: 97.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 92 Resp: 536148

Ion	Ratio	Lower	Upper
92	100		
91	169.3	137.1	205.7

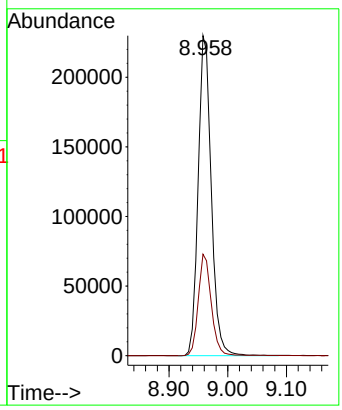




#53
t-1,3-Dichloropropene
Concen: 101.986 ug/l
RT: 8.958 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 35588

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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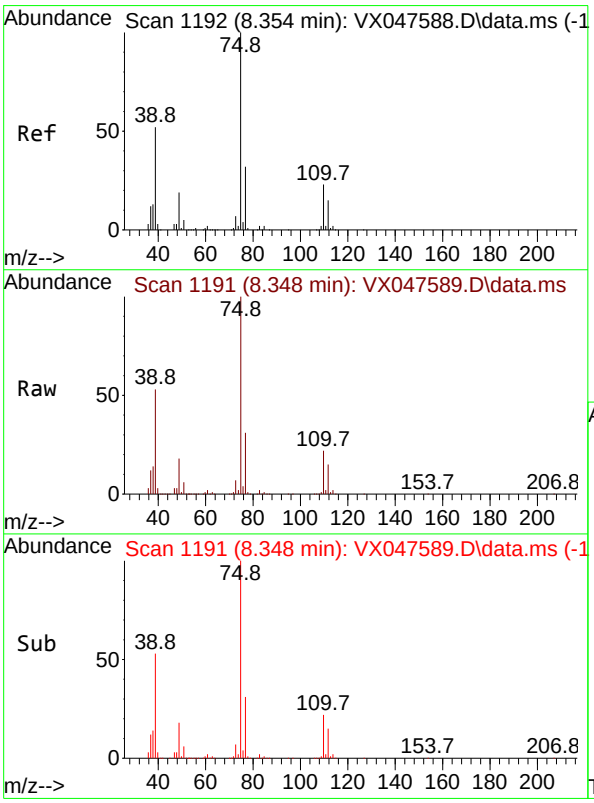
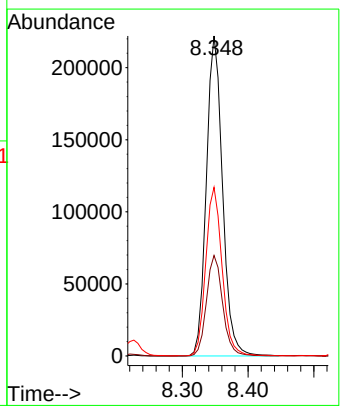
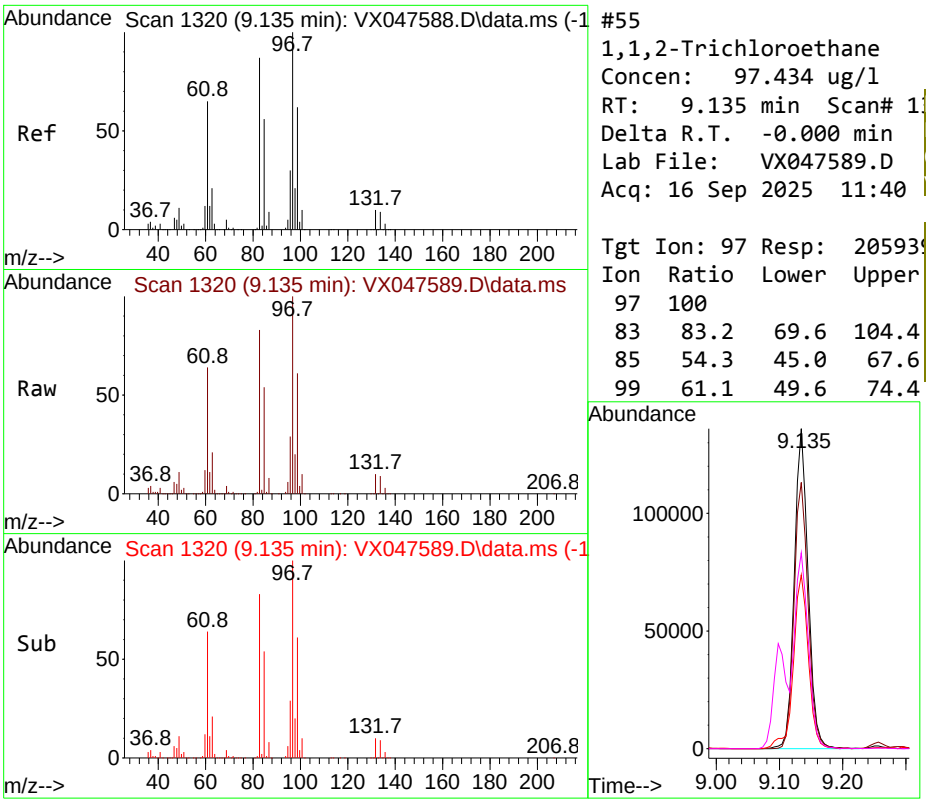


#54
cis-1,3-Dichloropropene
Concen: 102.038 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 380577

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	52.3	41.4	62.2





#55
1,1,2-Trichloroethane
Concen: 97.434 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 20593

Ion	Ratio	Lower	Upper
97	100		
83	83.2	69.6	104.4
85	54.3	45.0	67.6
99	61.1	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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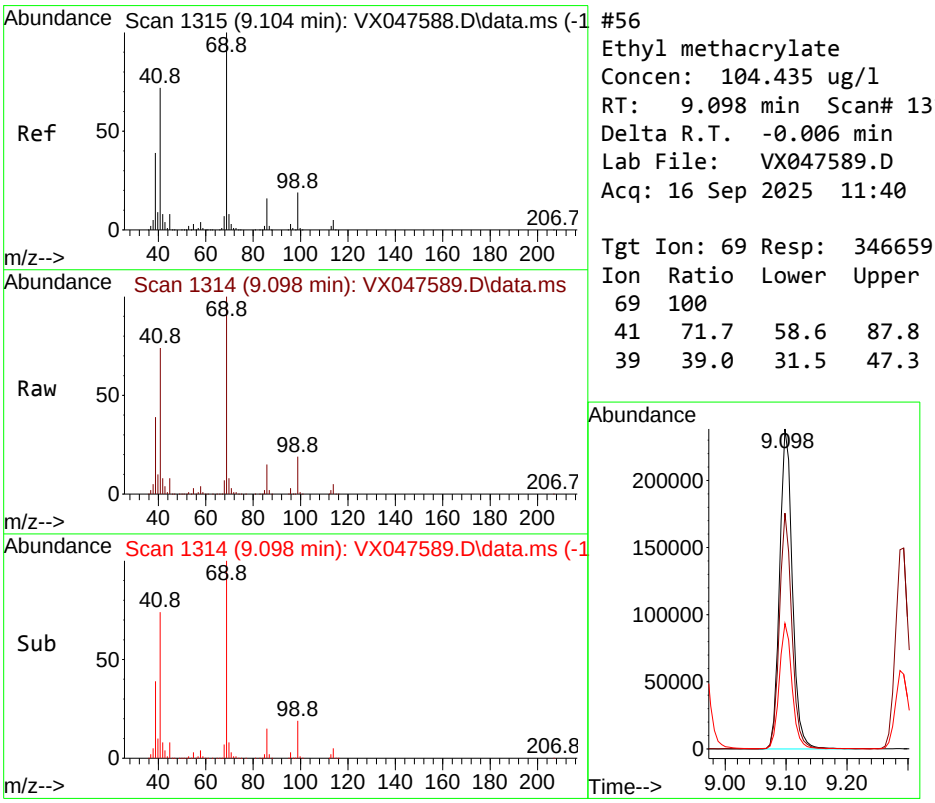
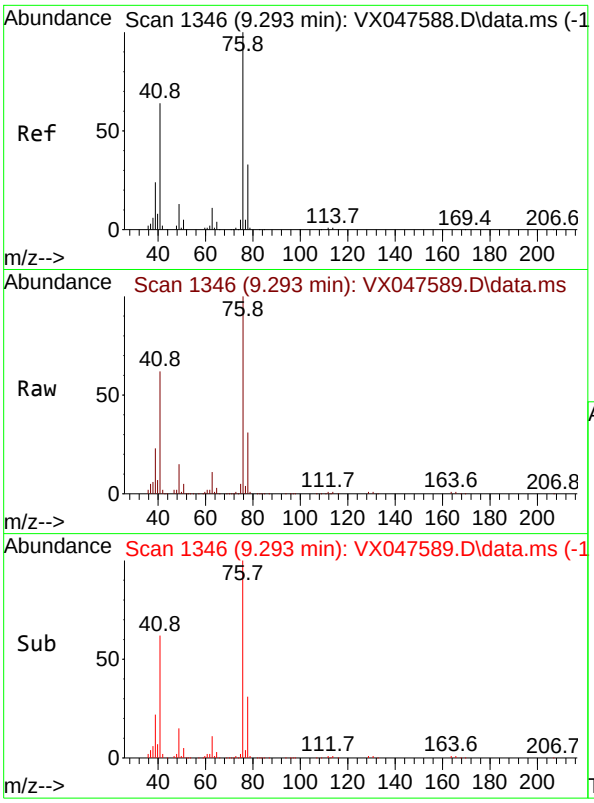


#56
Ethyl methacrylate
Concen: 104.435 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 69 Resp: 346659

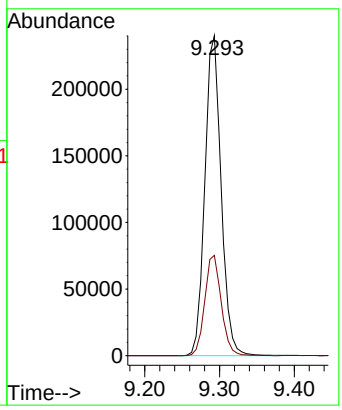
Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3



#57
1,3-Dichloropropane
Concen: 99.935 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 76 Resp: 36284

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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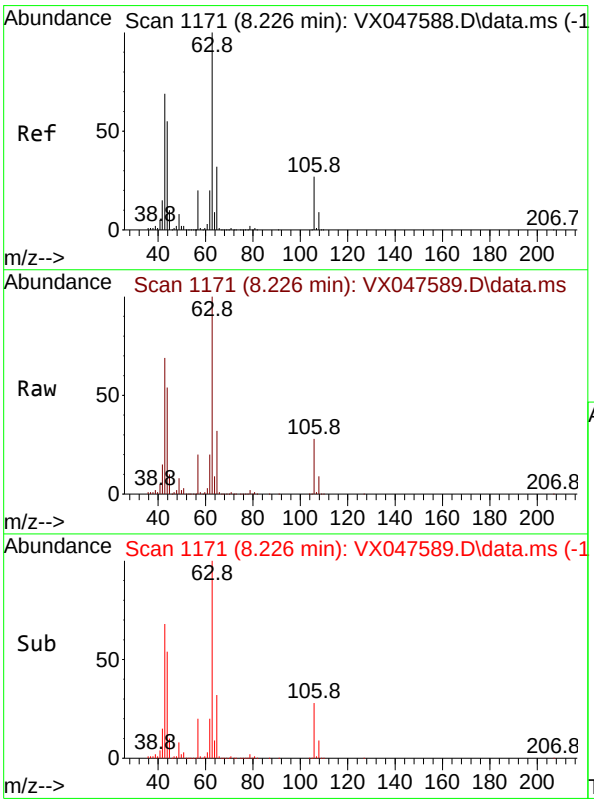
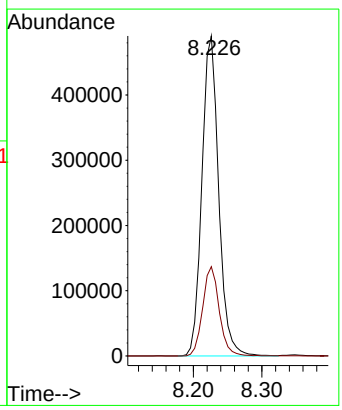
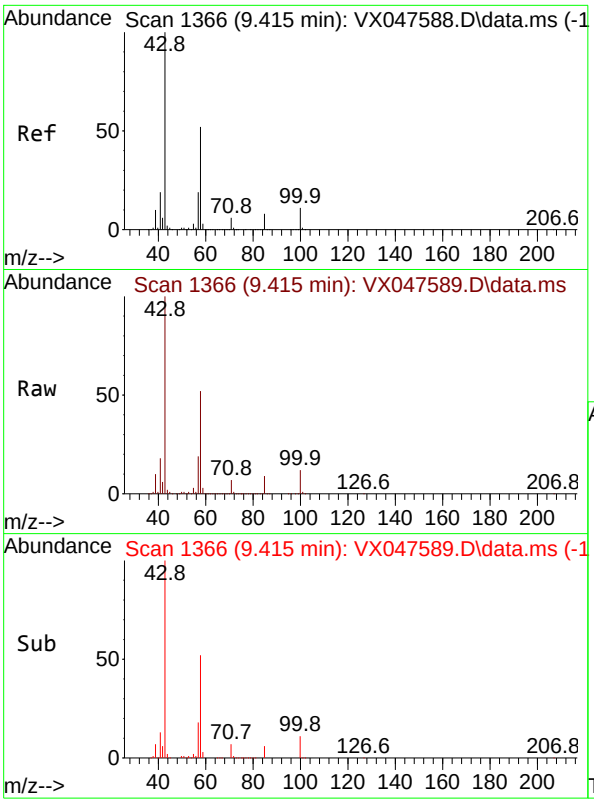


#58
2-Chloroethyl Vinyl ether
Concen: 499.814 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 836362

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

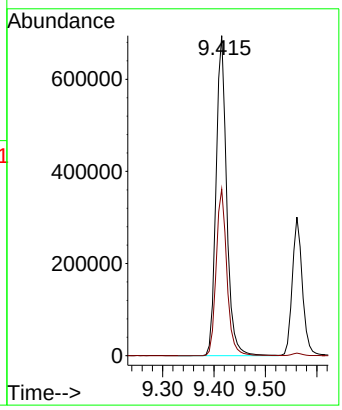




#59
2-Hexanone
Concen: 486.380 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 99627

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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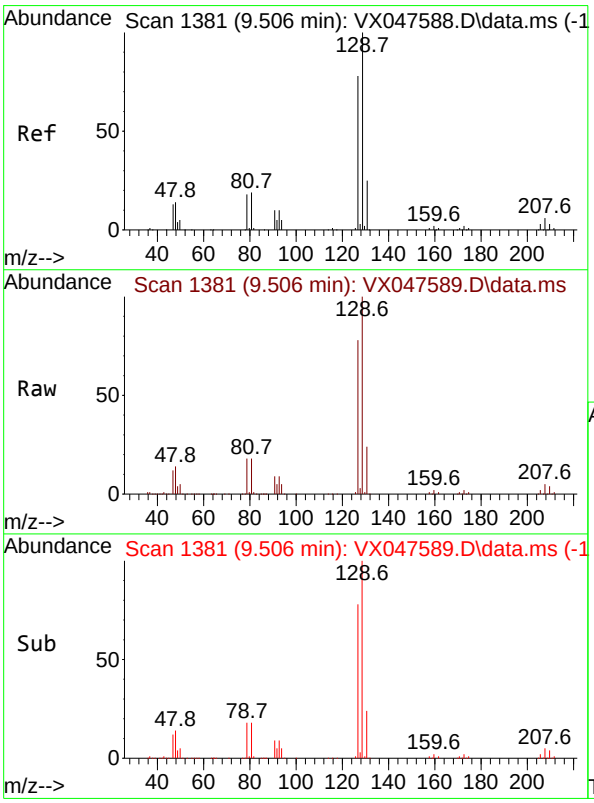
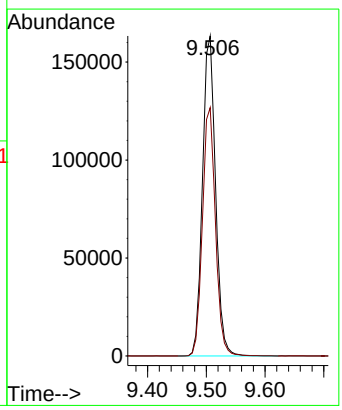
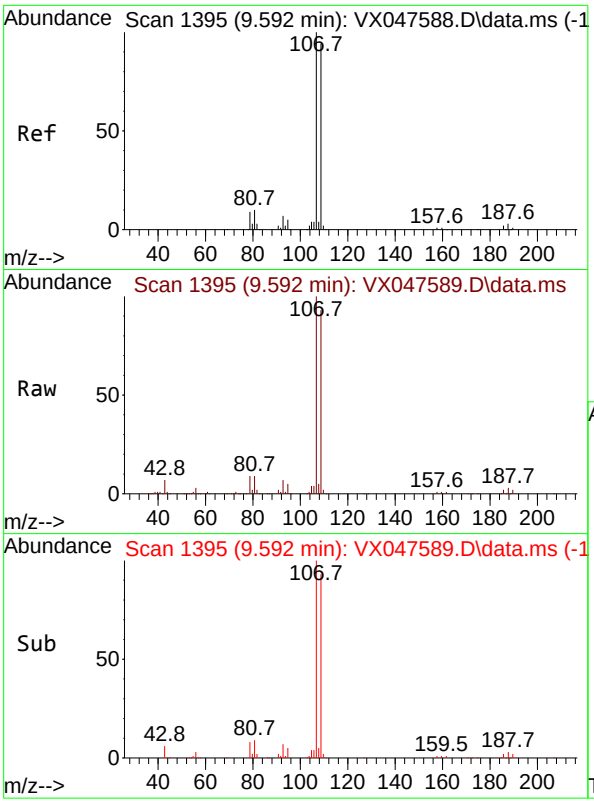


#60
Dibromochloromethane
Concen: 103.226 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:129 Resp: 251394

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.4	115.2

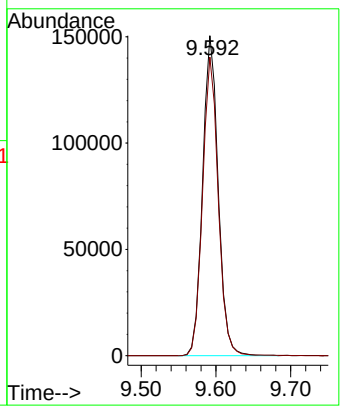




#61
1,2-Dibromoethane
Concen: 101.147 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:107 Resp: 21775

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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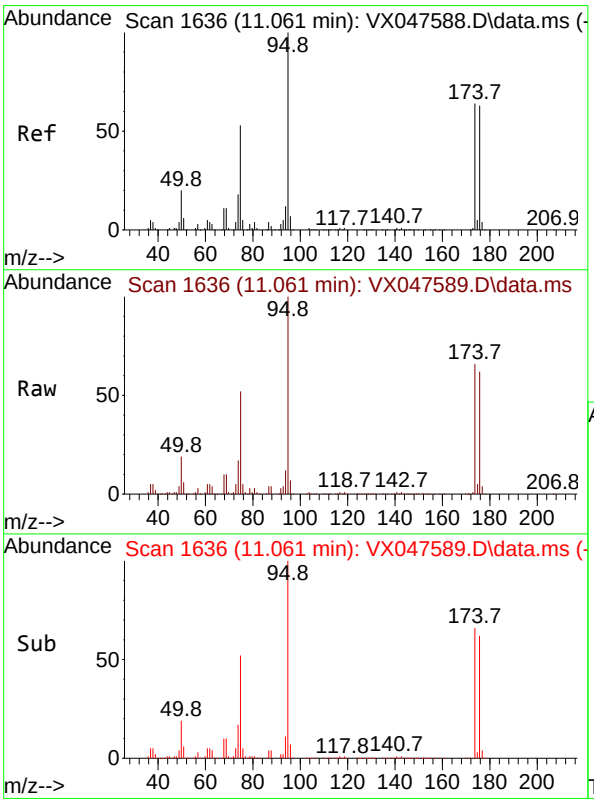
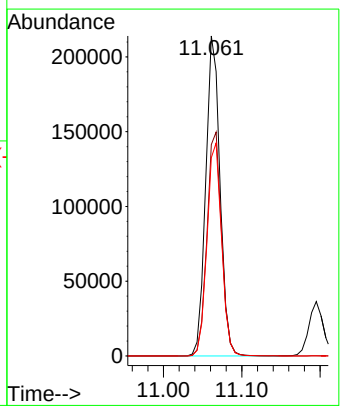
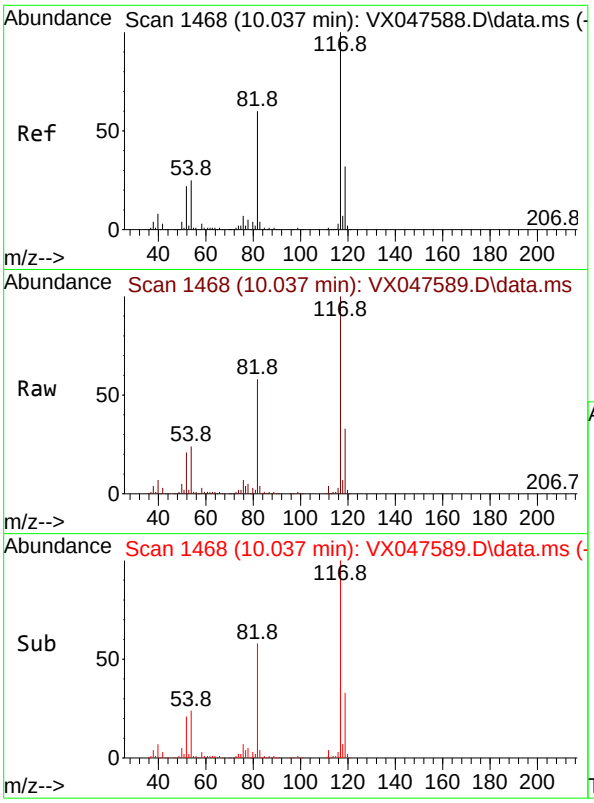


#62
4-Bromofluorobenzene
Concen: 102.672 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 95 Resp: 270289

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	68.0	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 25839

Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.7	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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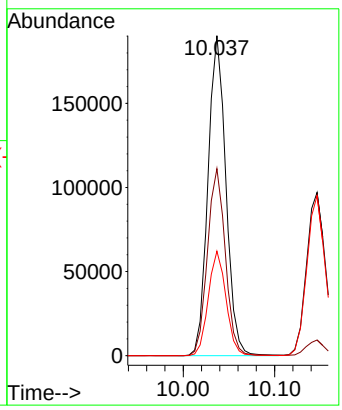
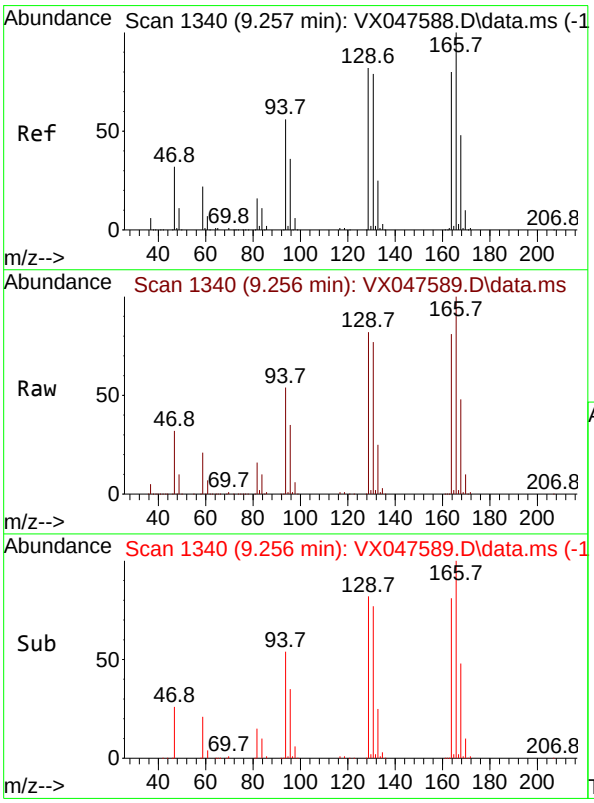
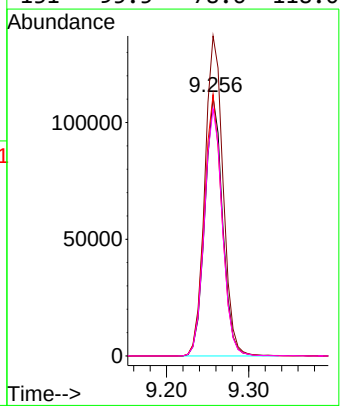


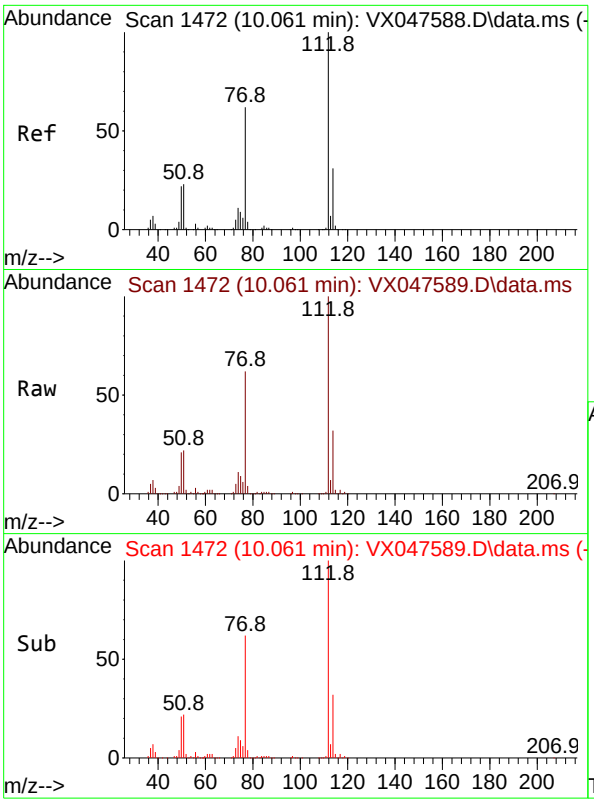


#64
Tetrachloroethene
Concen: 98.284 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:164 Resp: 165559

Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.2	150.2
129	100.9	81.8	122.6
131	95.5	78.6	118.0

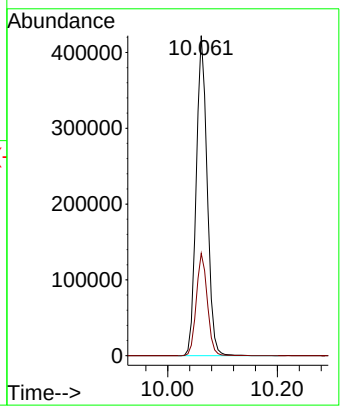




#65
Chlorobenzene
Concen: 100.253 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:112 Resp: 58851

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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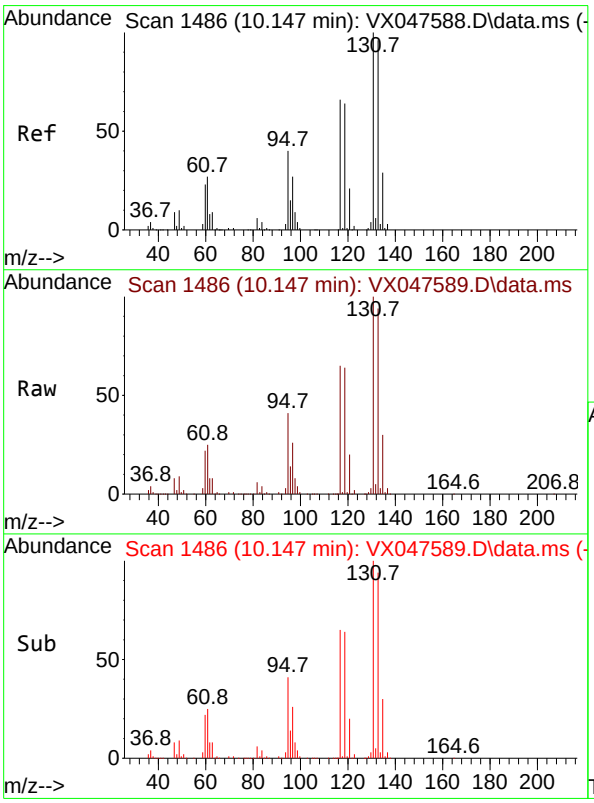
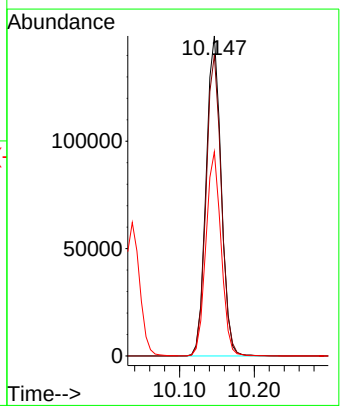
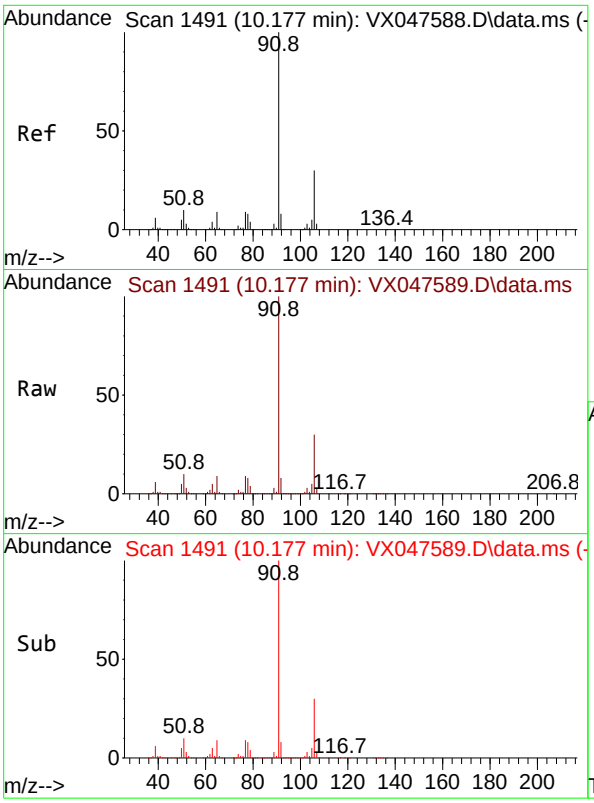


#66
1,1,1,2-Tetrachloroethane
Concen: 102.988 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:131 Resp: 208621

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	142.0
119	64.2	32.0	96.0

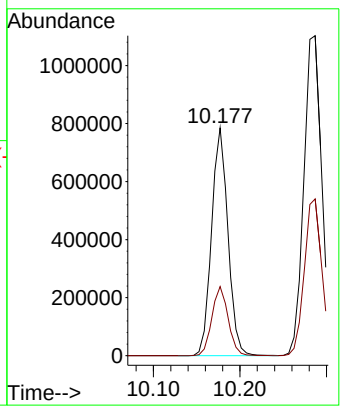




#67
Ethyl Benzene
Concen: 101.823 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 103134

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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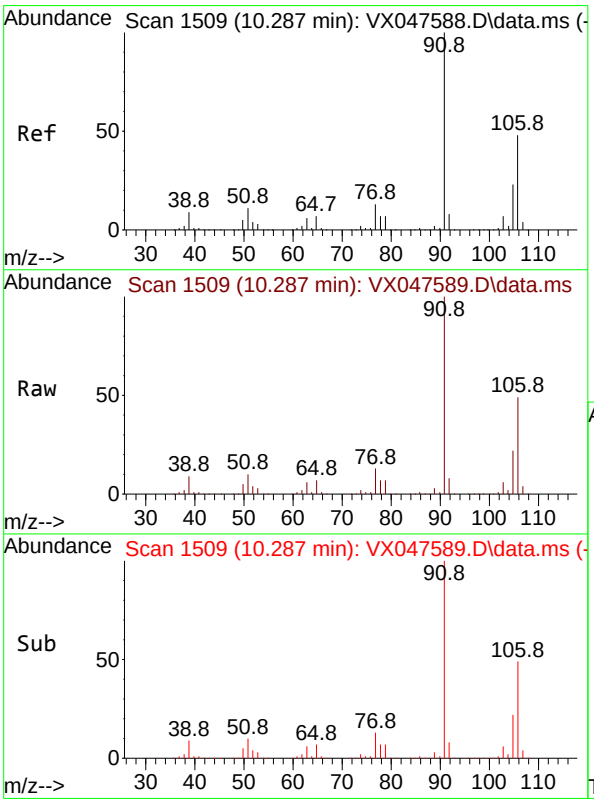
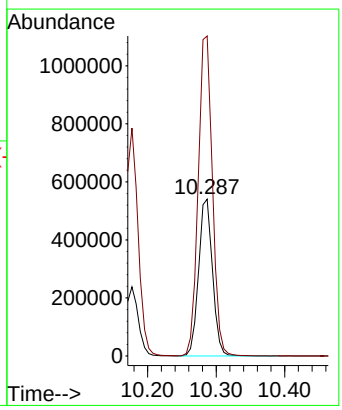
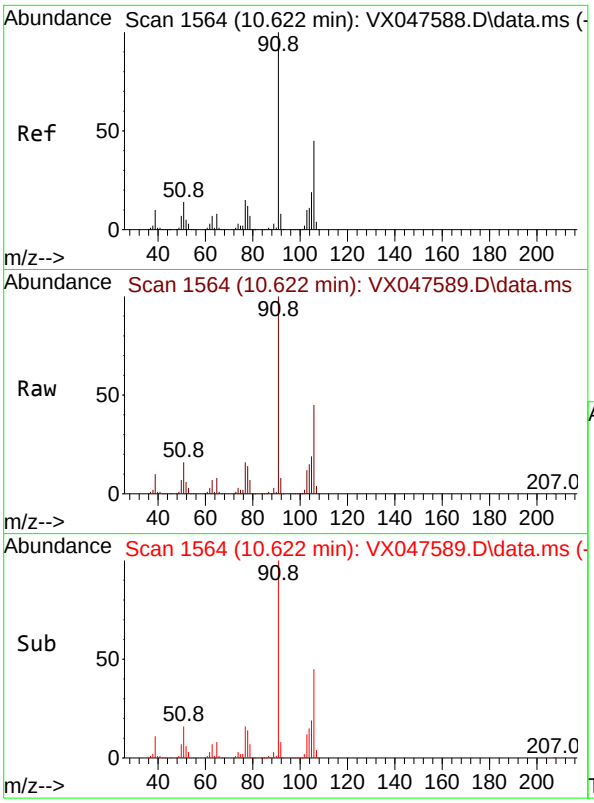


#68
m/p-Xylenes
Concen: 202.624 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:106 Resp: 763898

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8





#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:106 Resp: 37262

Ion	Ratio	Lower	Upper
106	100		
91	221.3	111.1	333.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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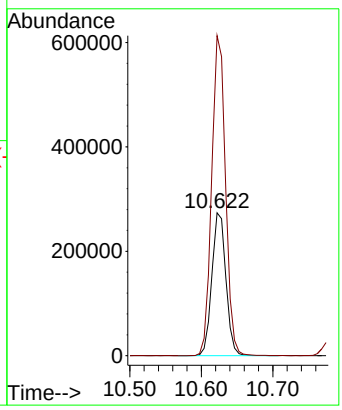
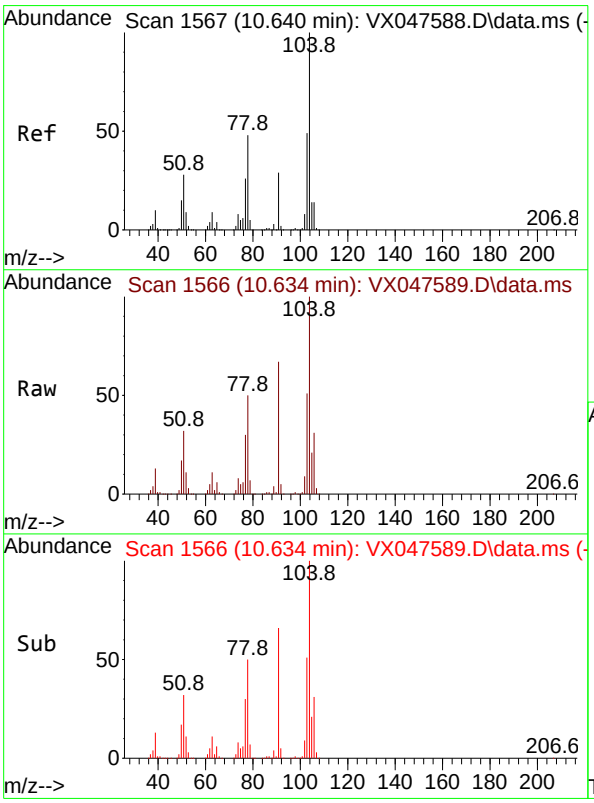
Supervised By :Mahesh Dadoda 09/18/2025

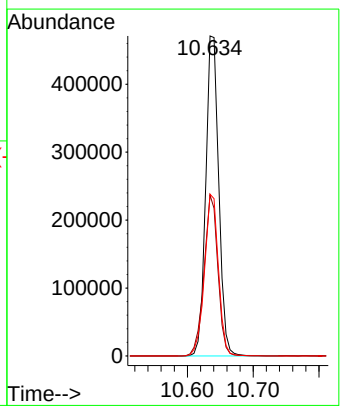


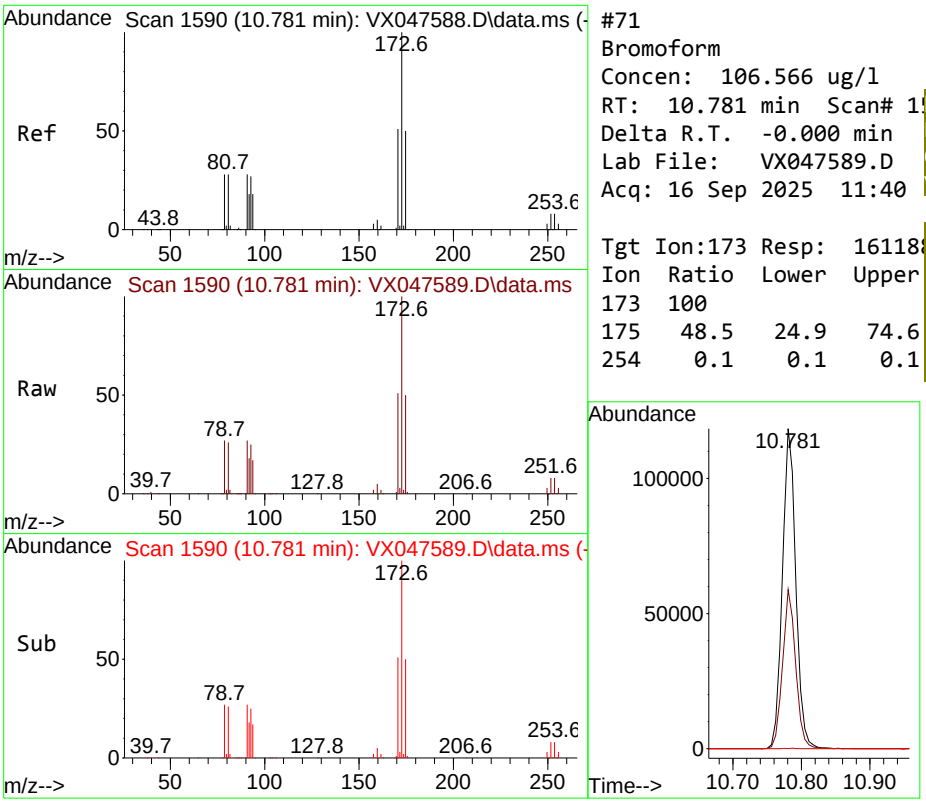


#70
Styrene
Concen: 101.710 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:104 Resp: 649863

Ion	Ratio	Lower	Upper
104	100		
78	53.5	43.1	64.7
103	54.1	43.1	64.7





#71
Bromoform
Concen: 106.566 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:173 Resp: 16118

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.6
254	0.1	0.1	0.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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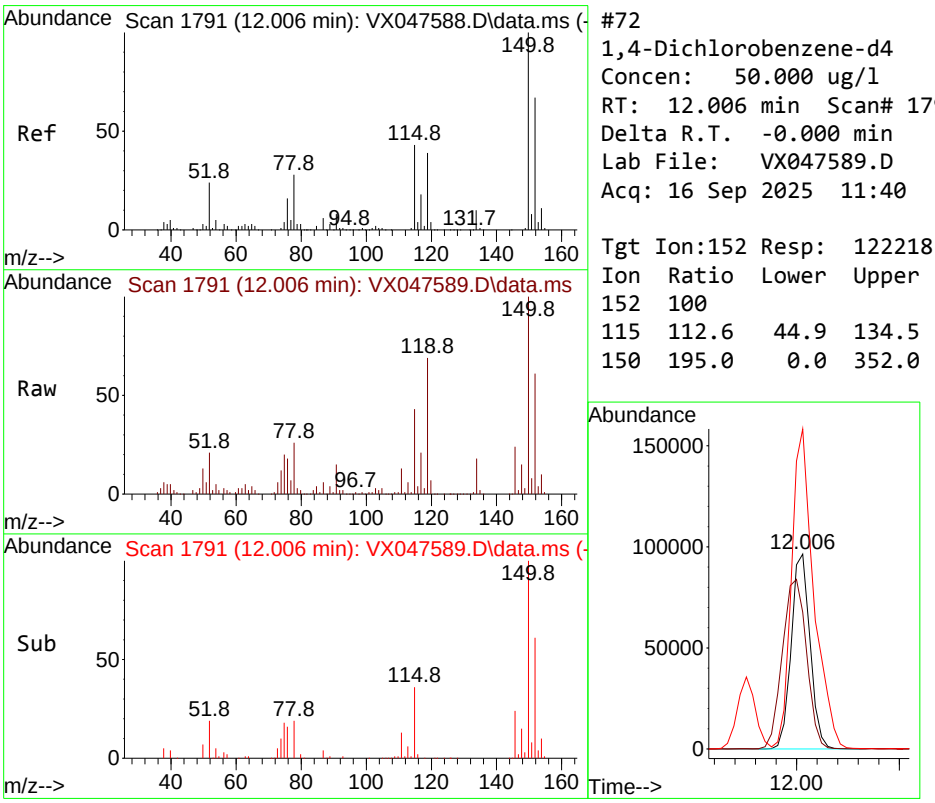
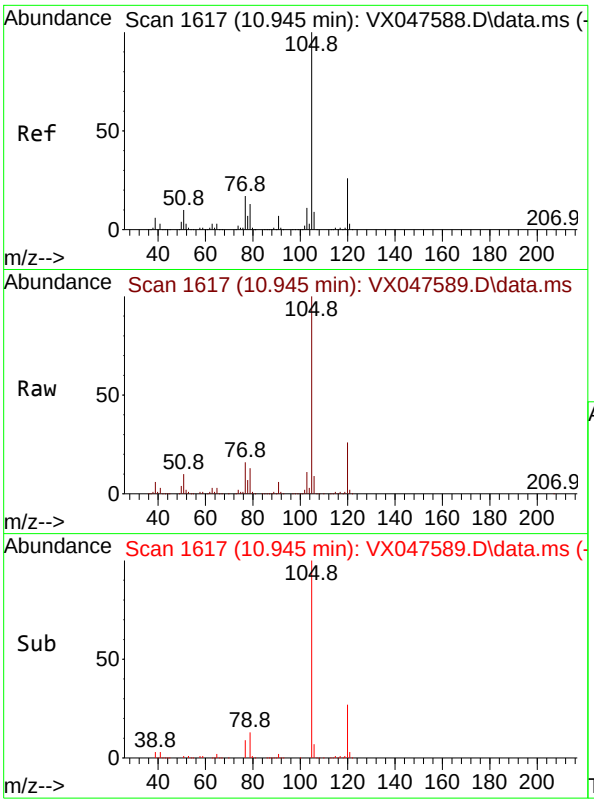
Supervised By :Mahesh Dadoda 09/18/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:152 Resp: 122218

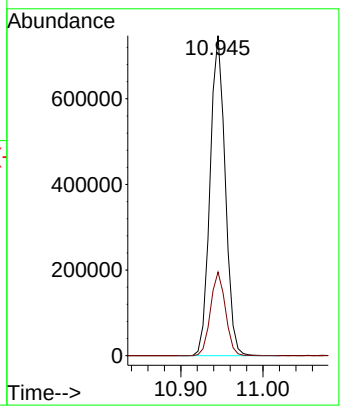
Ion	Ratio	Lower	Upper
152	100		
115	112.6	44.9	134.5
150	195.0	0.0	352.0



#73
Isopropylbenzene
Concen: 102.768 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 95490

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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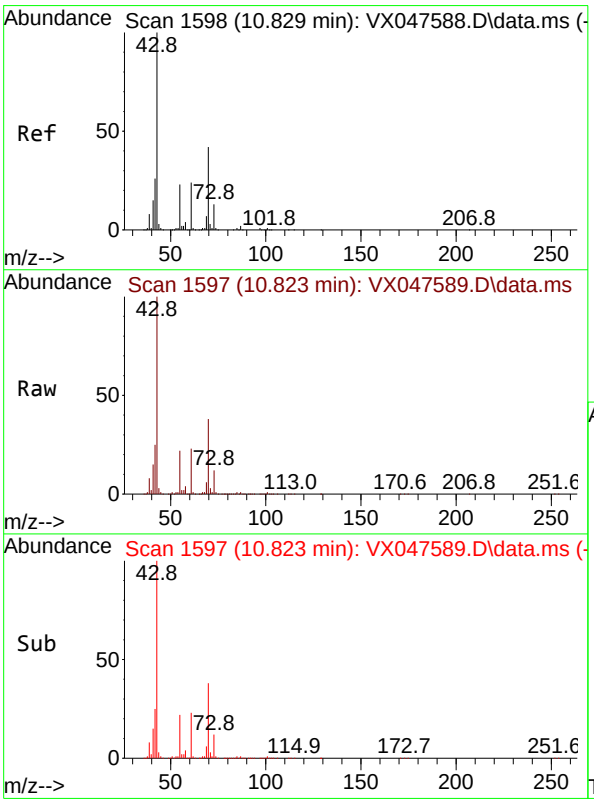
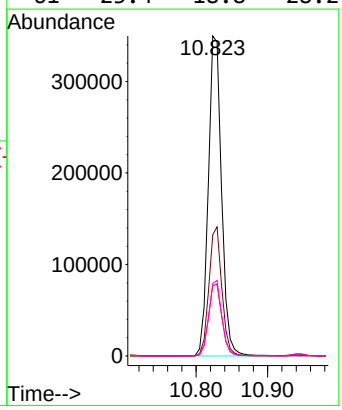
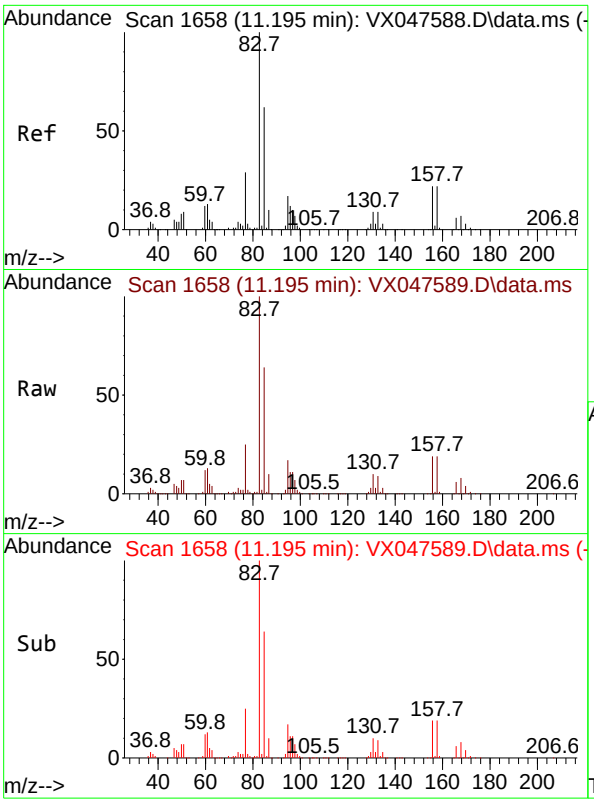


#74
N-amyl acetate
Concen: 105.812 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 448344

Ion	Ratio	Lower	Upper
43	100		
70	39.6	32.0	48.0
55	22.8	18.9	28.3
61	23.4	18.8	28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 100.172 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 83 Resp: 28160

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	65.1	31.6	95.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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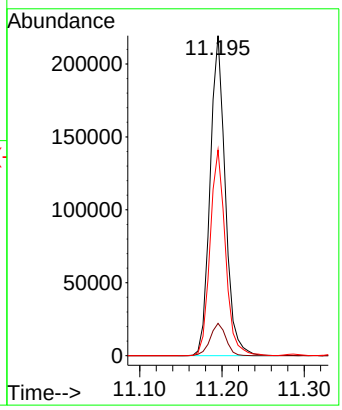
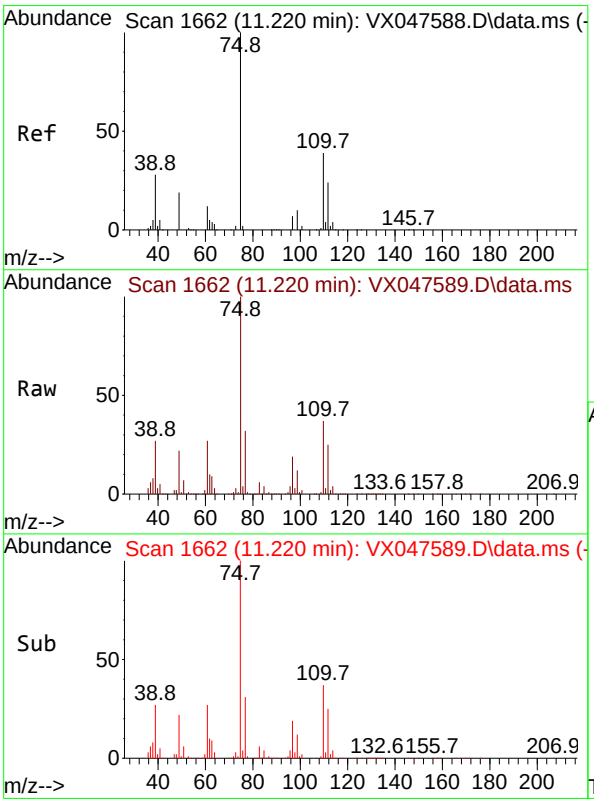
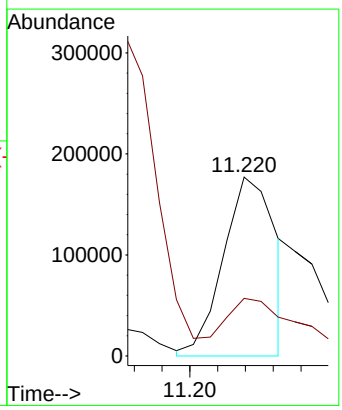


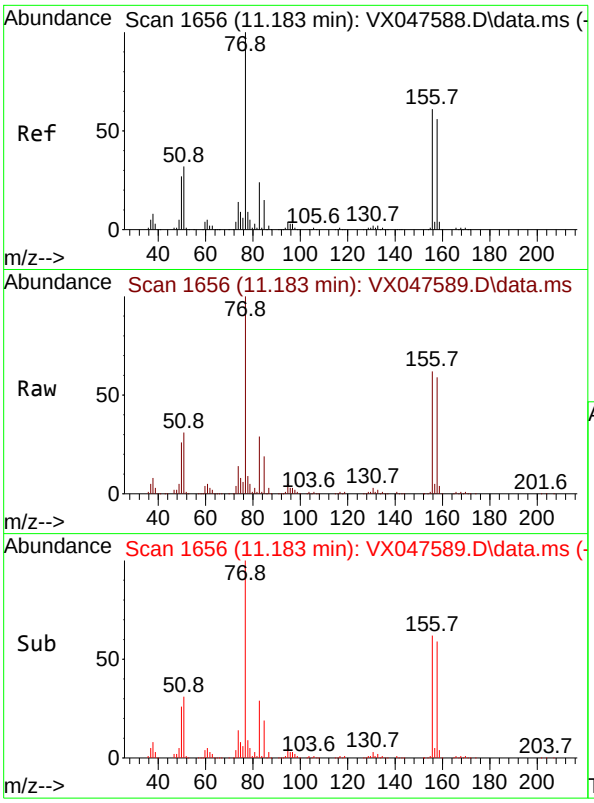


#76
1,2,3-Trichloropropane
Concen: 90.444 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 229521

Ion	Ratio	Lower	Upper
75	100		
77	43.9	18.8	56.4

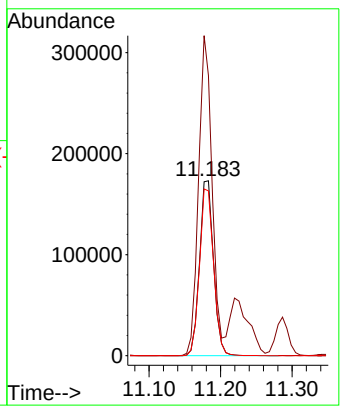




#77
Bromobenzene
Concen: 102.541 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:156 Resp: 23466

Ion	Ratio	Lower	Upper
156	100		
77	176.0	89.7	269.1
158	96.5	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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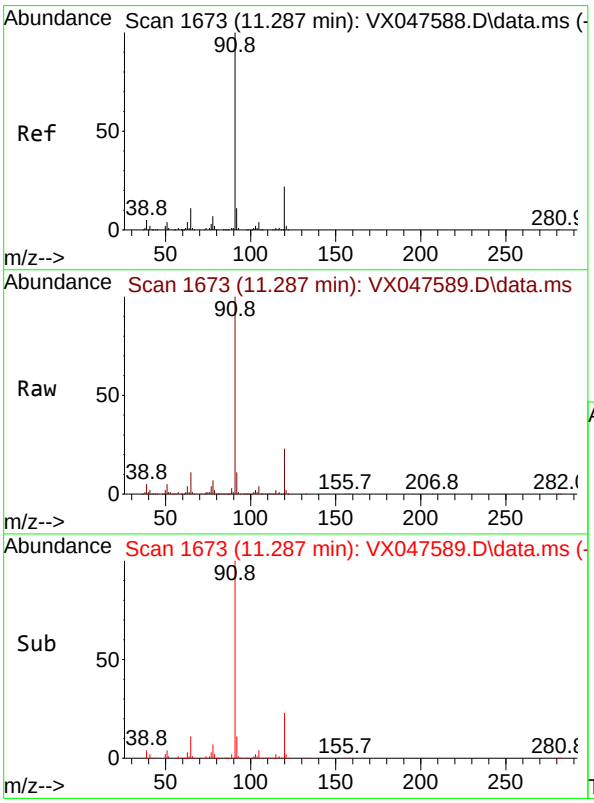
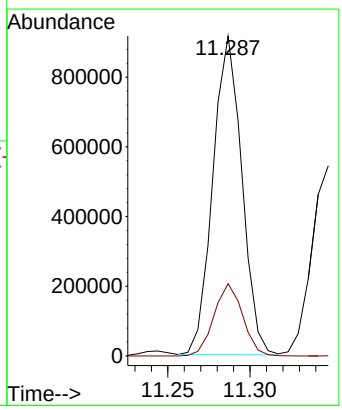
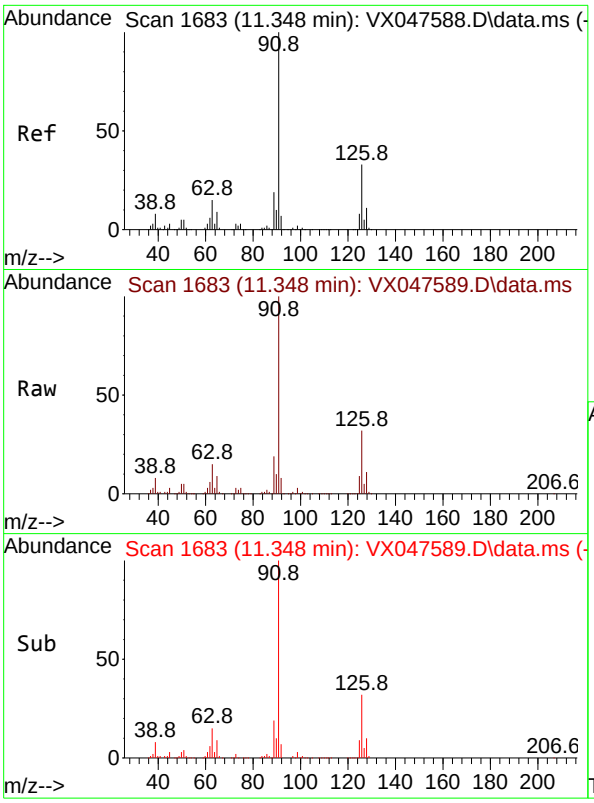


#78
n-propylbenzene
Concen: 101.941 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 1119728

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

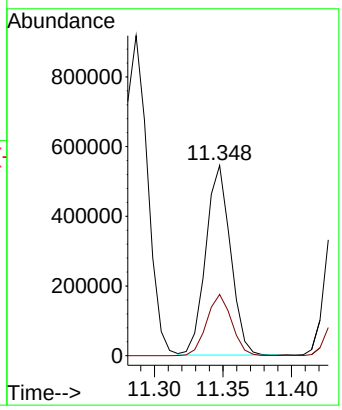




#79
2-Chlorotoluene
Concen: 101.652 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 68386

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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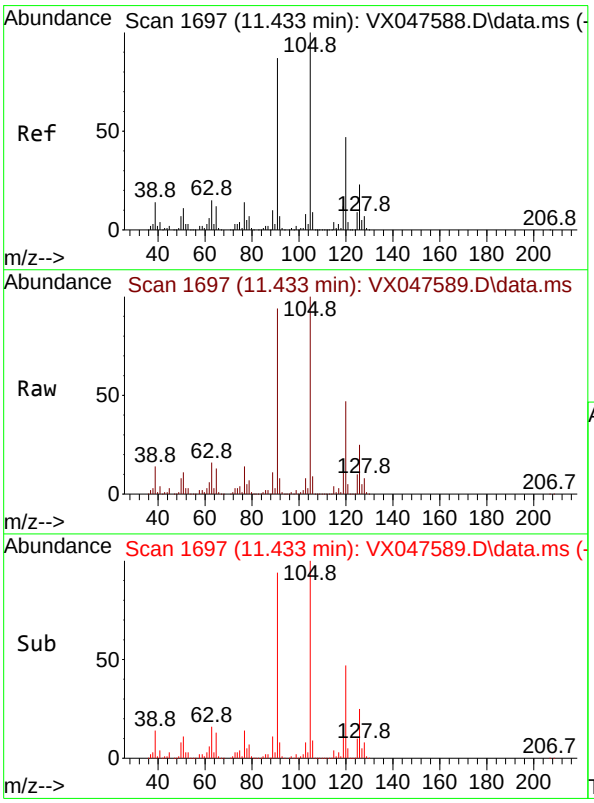
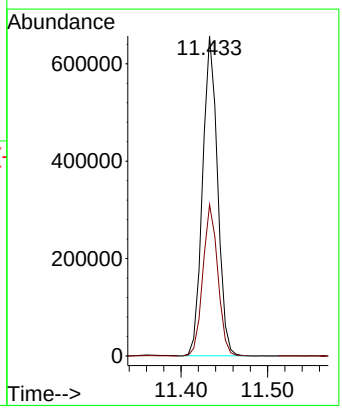
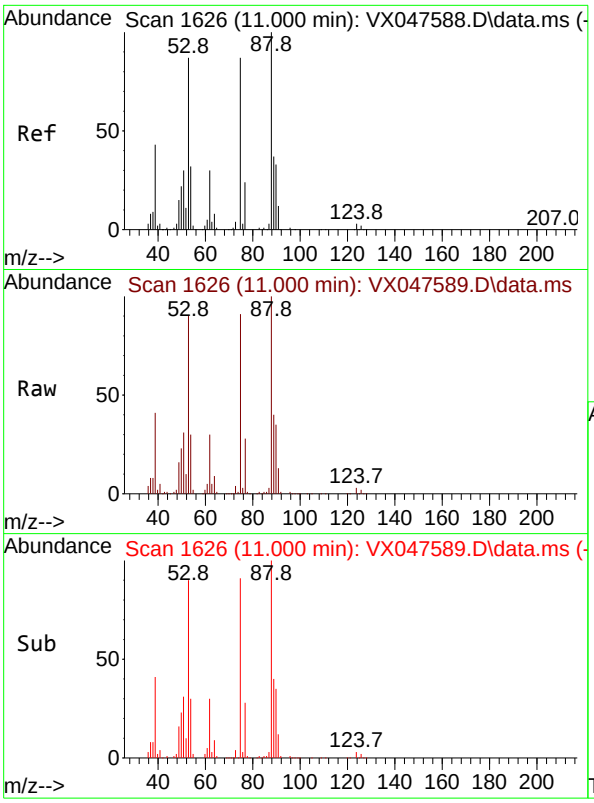


#80
1,3,5-Trimethylbenzene
Concen: 103.134 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 787327

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.6	70.8

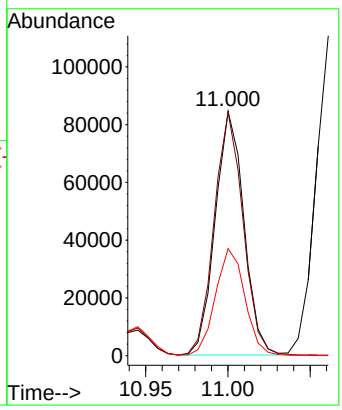




#81
trans-1,4-Dichloro-2-butene
Concen: 105.689 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 10255

Ion	Ratio	Lower	Upper
75	100		
53	101.1	83.4	125.2
89	45.3	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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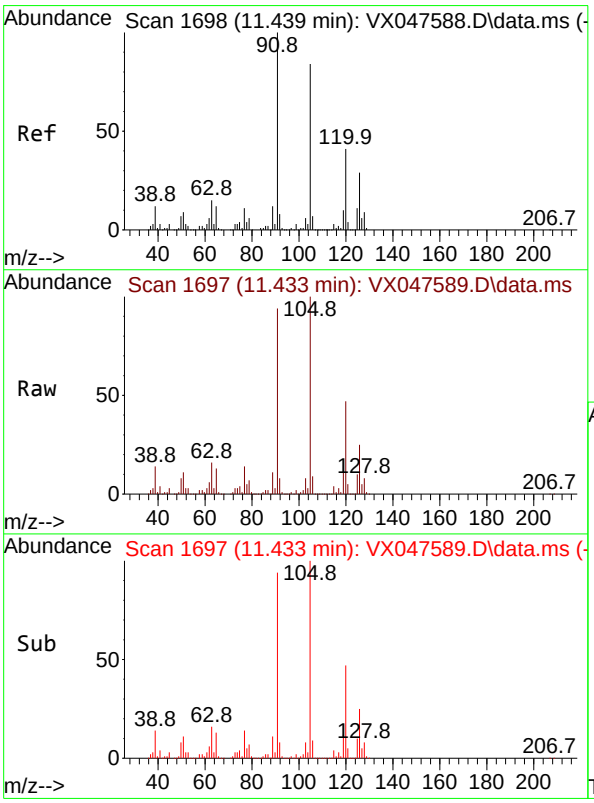
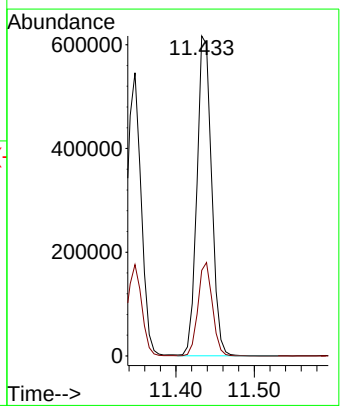
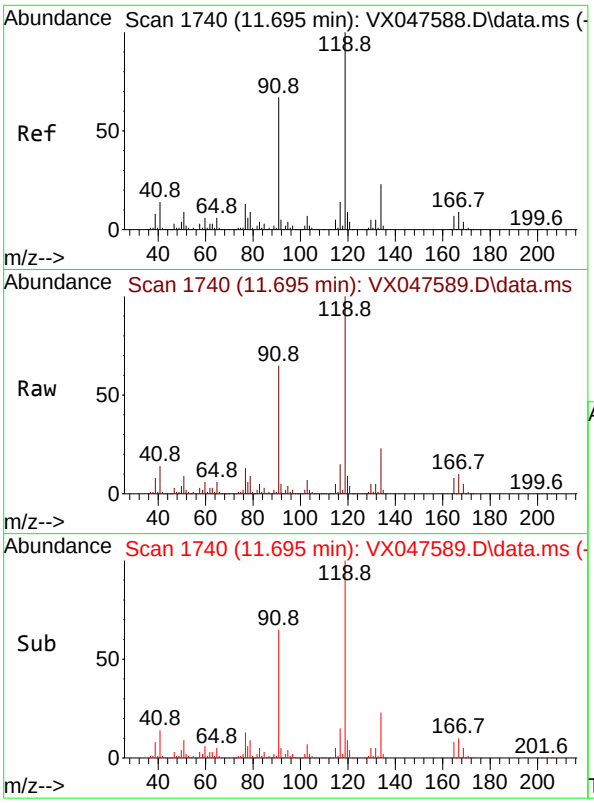


#82
4-Chlorotoluene
Concen: 101.054 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 802929

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

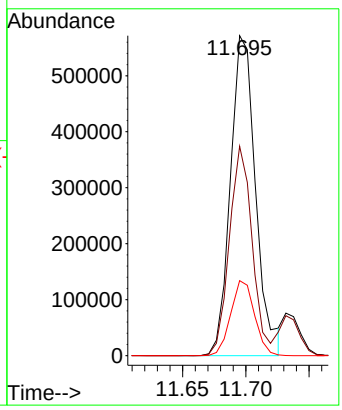




#83
tert-Butylbenzene
Concen: 101.333 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 79189

Ion	Ratio	Lower	Upper
119	100		
91	59.3	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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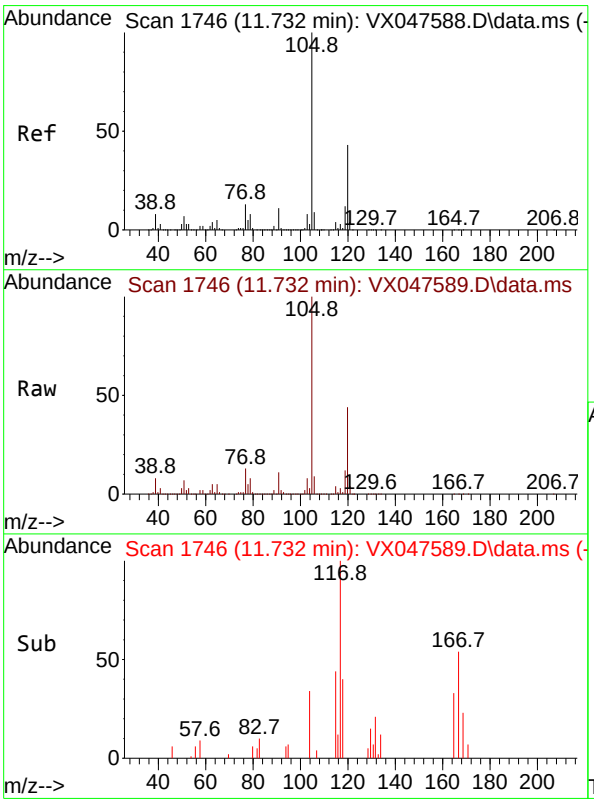
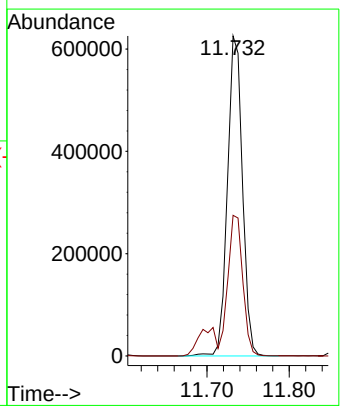
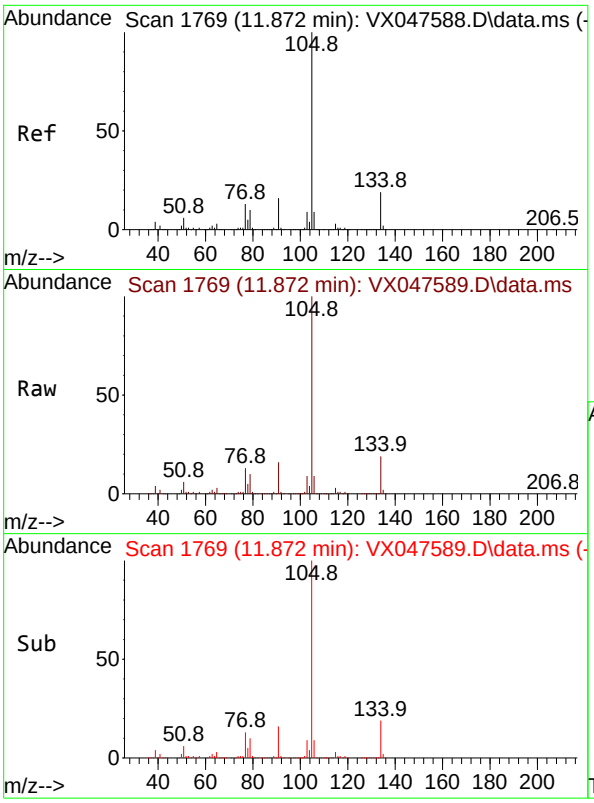


#84
1,2,4-Trimethylbenzene
Concen: 102.144 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 790557

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	66.1

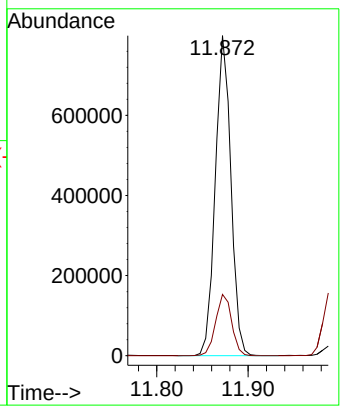




#85
sec-Butylbenzene
Concen: 101.840 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:105 Resp: 94532

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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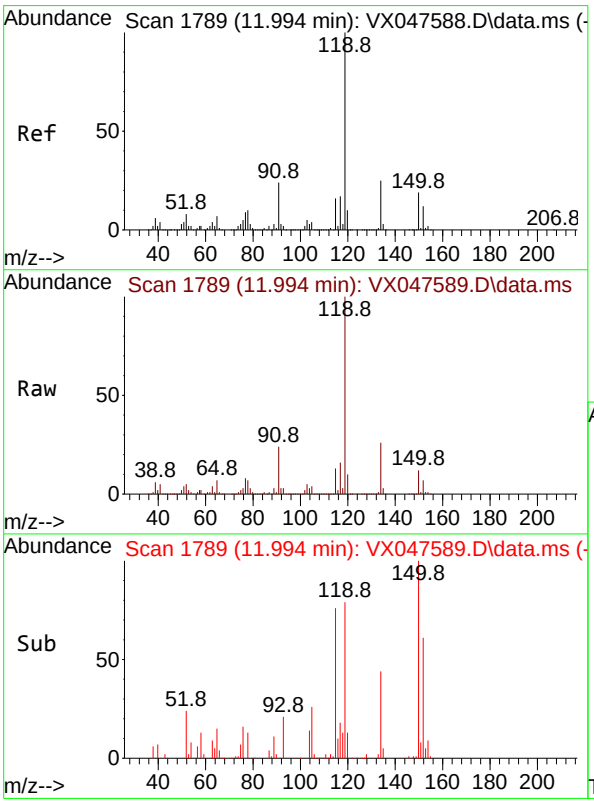
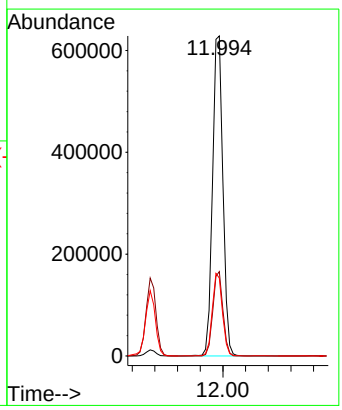
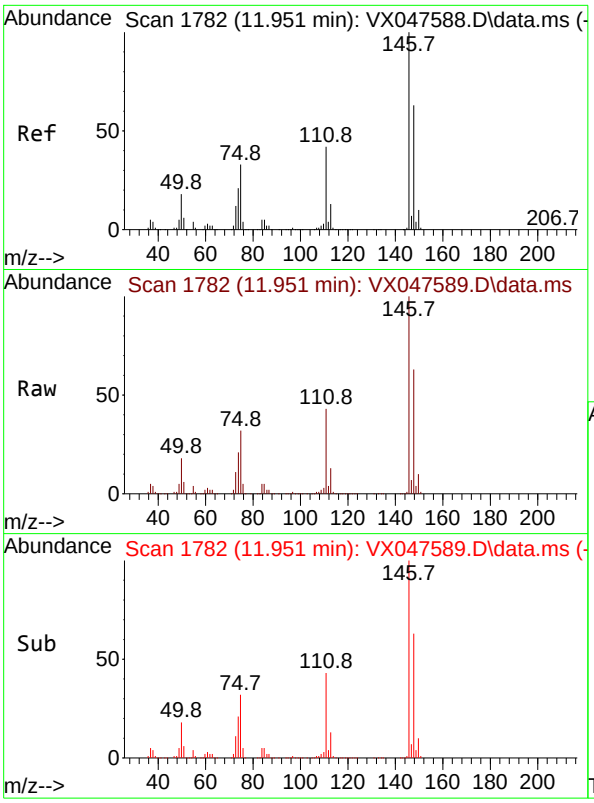


#86
p-Isopropyltoluene
Concen: 101.501 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:119 Resp: 797643

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.6	37.8
91	25.2	12.6	37.6

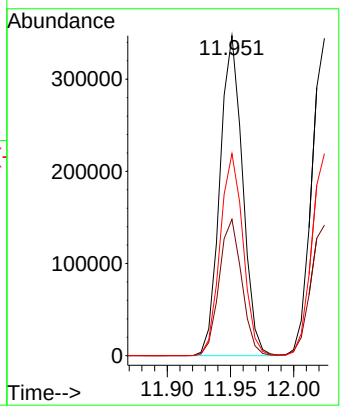




#87
1,3-Dichlorobenzene
Concen: 101.689 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 43224

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.5	64.5
148	63.9	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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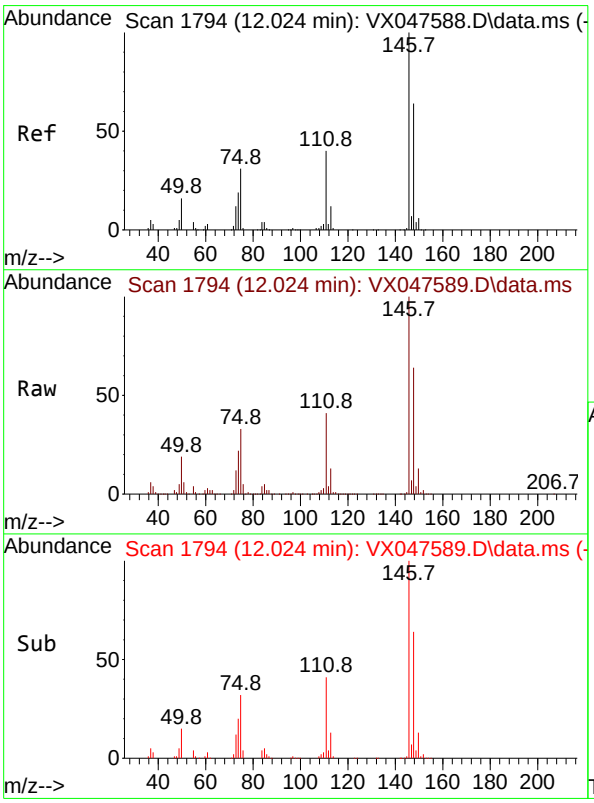
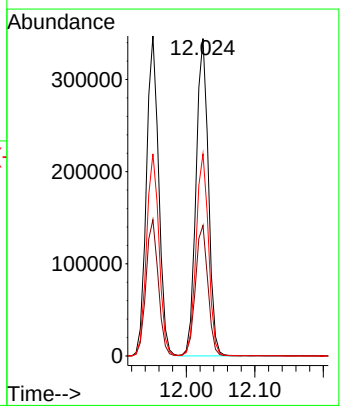
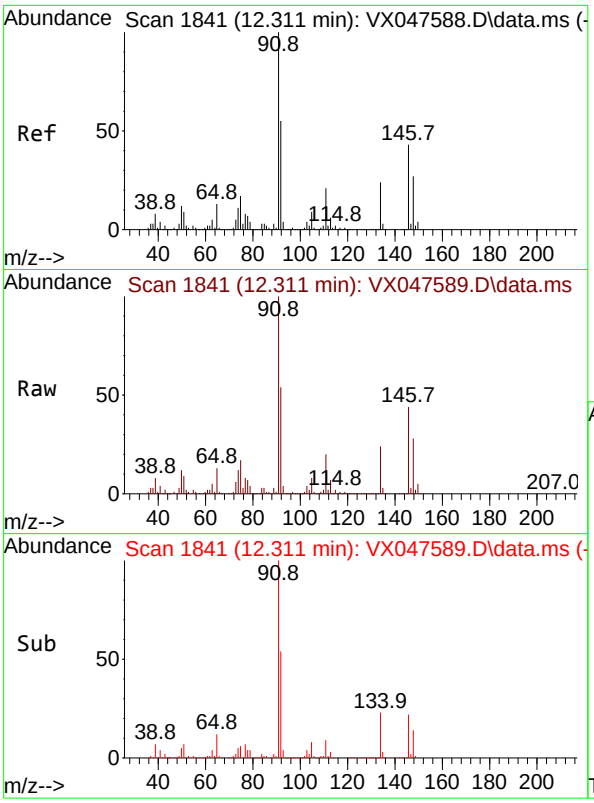


#88
1,4-Dichlorobenzene
Concen: 98.985 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 431839

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.8	62.4
148	63.8	31.7	95.1





#89
n-Butylbenzene
Concen: 104.138 ug/l
RT: 12.311 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

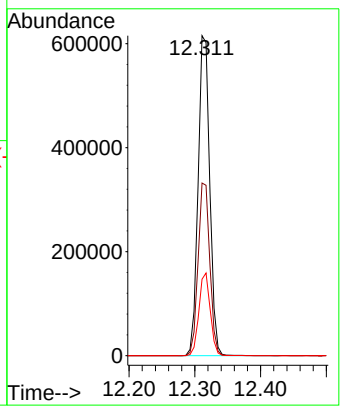
Tgt Ion: 91 Resp: 75723

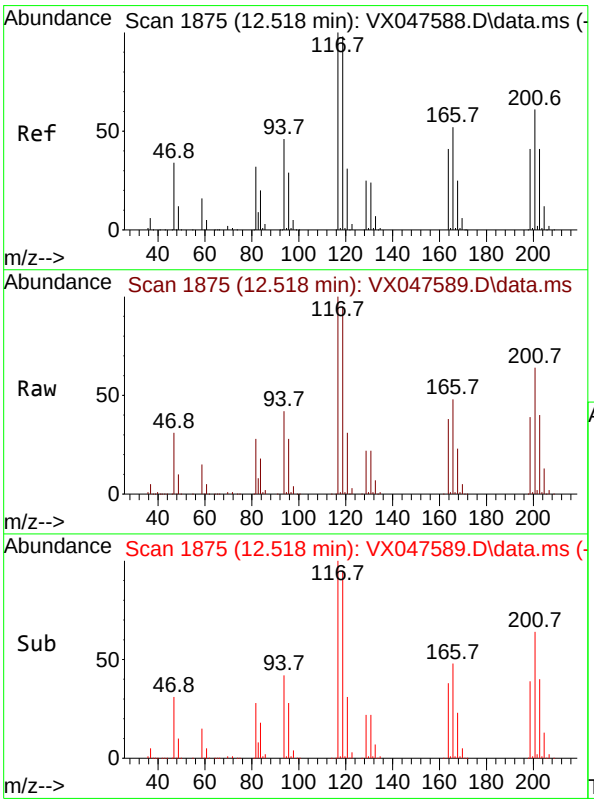
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.6	82.7
134	25.1	12.6	37.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

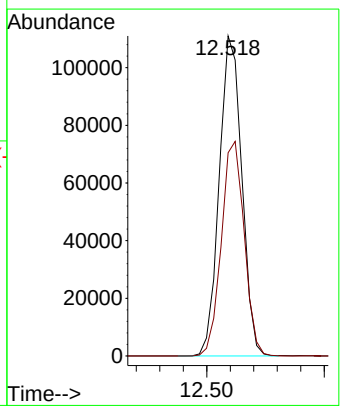


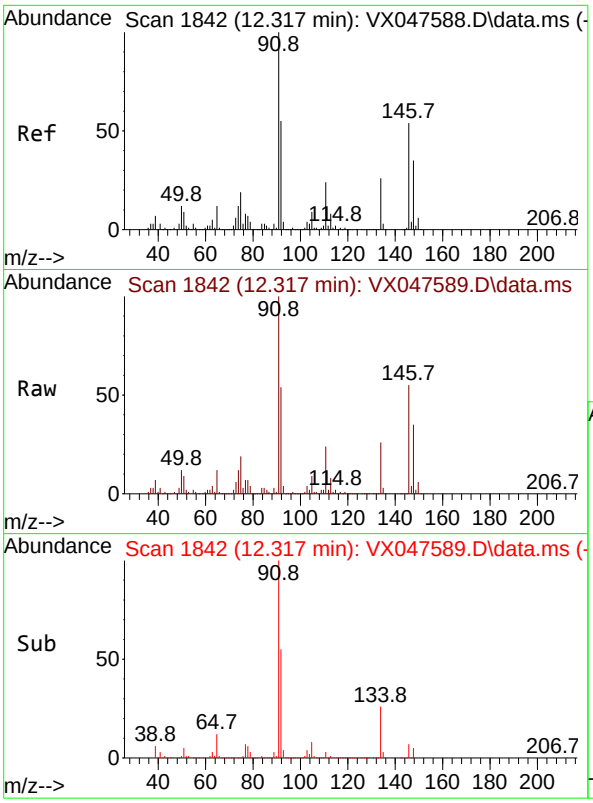


#90
Hexachloroethane
Concen: 107.304 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:117 Resp: 148048

Ion	Ratio	Lower	Upper
117	100		
201	68.1	34.2	102.5

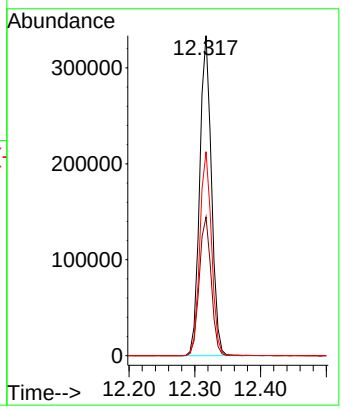




#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:146 Resp: 41449

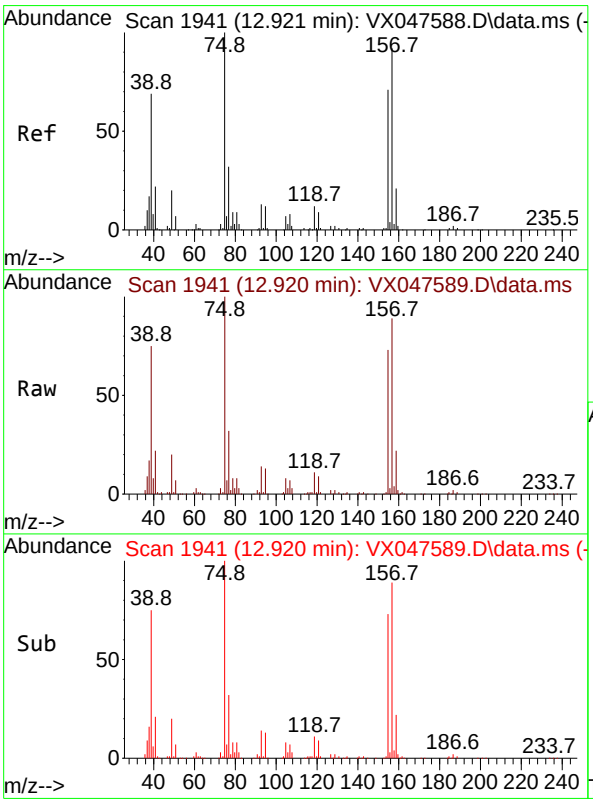
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.4	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

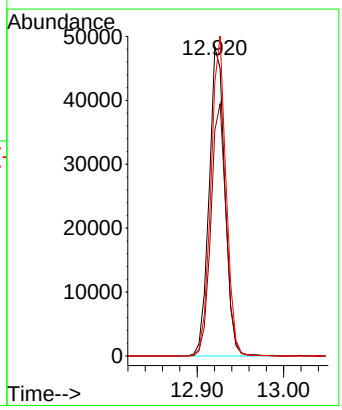
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

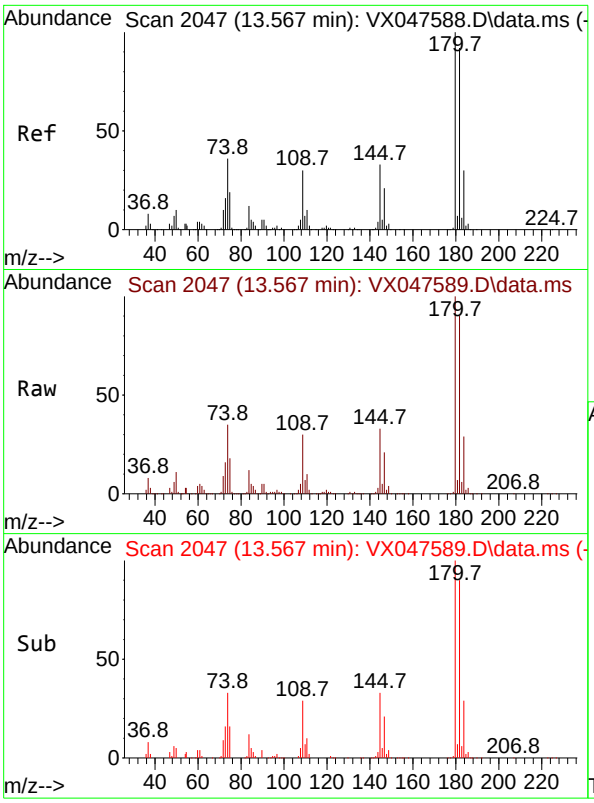


#92
1,2-Dibromo-3-Chloropropane
Concen: 107.225 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 61029

Ion	Ratio	Lower	Upper
75	100		
155	79.0	37.7	113.1
157	99.2	49.8	149.4

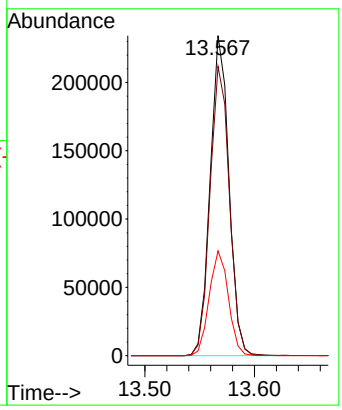




#93
1,2,4-Trichlorobenzene
Concen: 105.922 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 27877

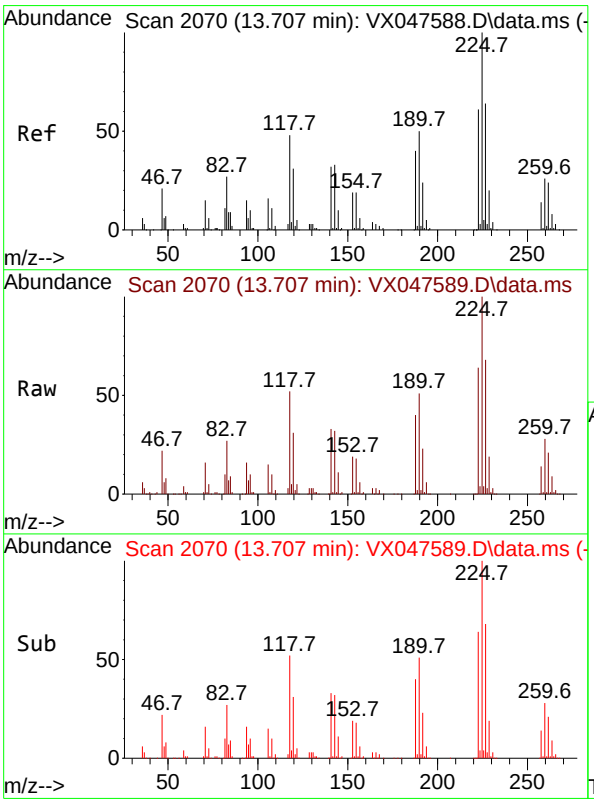
Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.6	139.8
145	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

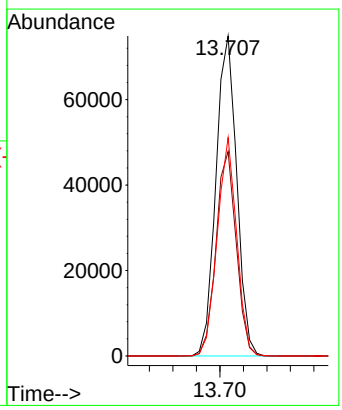
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

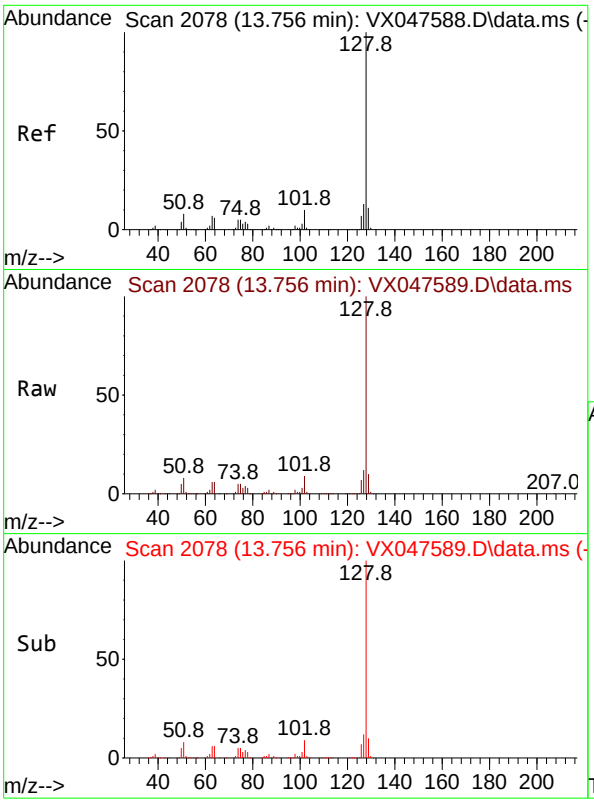


#94
Hexachlorobutadiene
Concen: 103.049 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:225 Resp: 92124

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.7	95.1
227	63.8	32.0	96.0

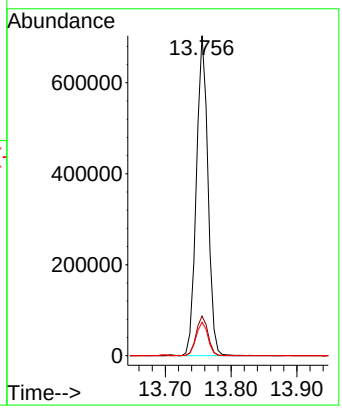




#95
Naphthalene
Concen: 106.620 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:128 Resp: 85449

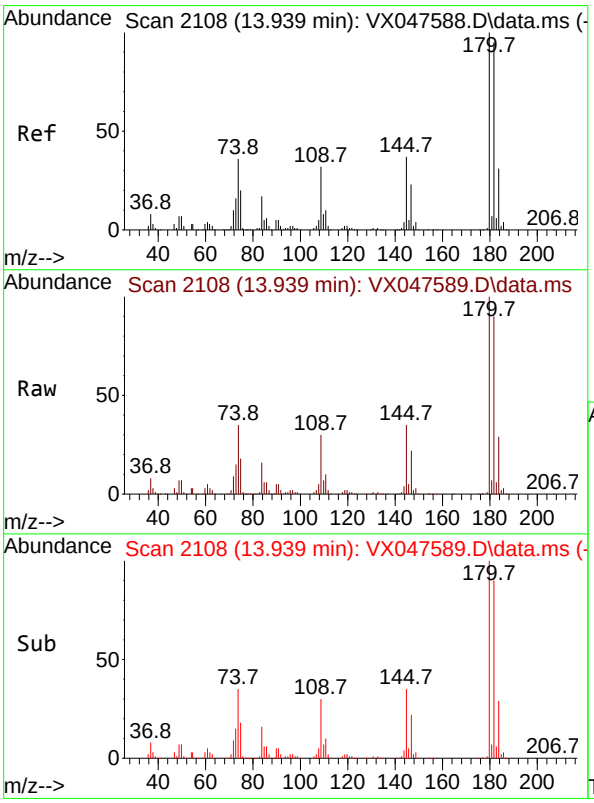
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

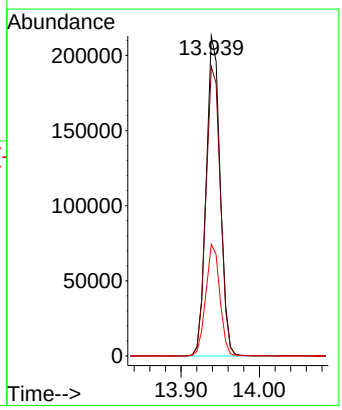
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 107.633 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:180 Resp: 263512

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.6	142.8
145	35.0	17.9	53.7



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 325.340%#			
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 329.600%#			
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 326.500%#			
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 330.040%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951 ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515 ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283 ug/l	99
44) Trichloroethene	7.111	130	299673	151.542 ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219 ug/l	99
46) Dibromomethane	7.568	93	228550	149.954 ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710 ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194 ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565 ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849 ug/l	100
52) Toluene	8.702	92	739332	146.712 ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076 ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732 ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781 ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773 ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661 ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035 ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318 ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949 ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590 ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733 ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026 ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381 ug/l	99
69) o-Xylene	10.628	106	521840	152.920 ug/l	99
70) Styrene	10.640	104	917532	153.449 ug/l	99
71) Bromoform	10.781	173	229683	162.262 ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477 ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035 ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	366171m	153.692 ug/l	
77) Bromobenzene	11.183	156	328336	152.818 ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337 ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781 ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176 ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112 ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819 ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336 ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448 ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530 ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633 ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814 ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222 ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258 ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332 ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884 ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110 ug/l	99
95) Naphthalene	13.756	128	1229363	163.388 ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

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

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

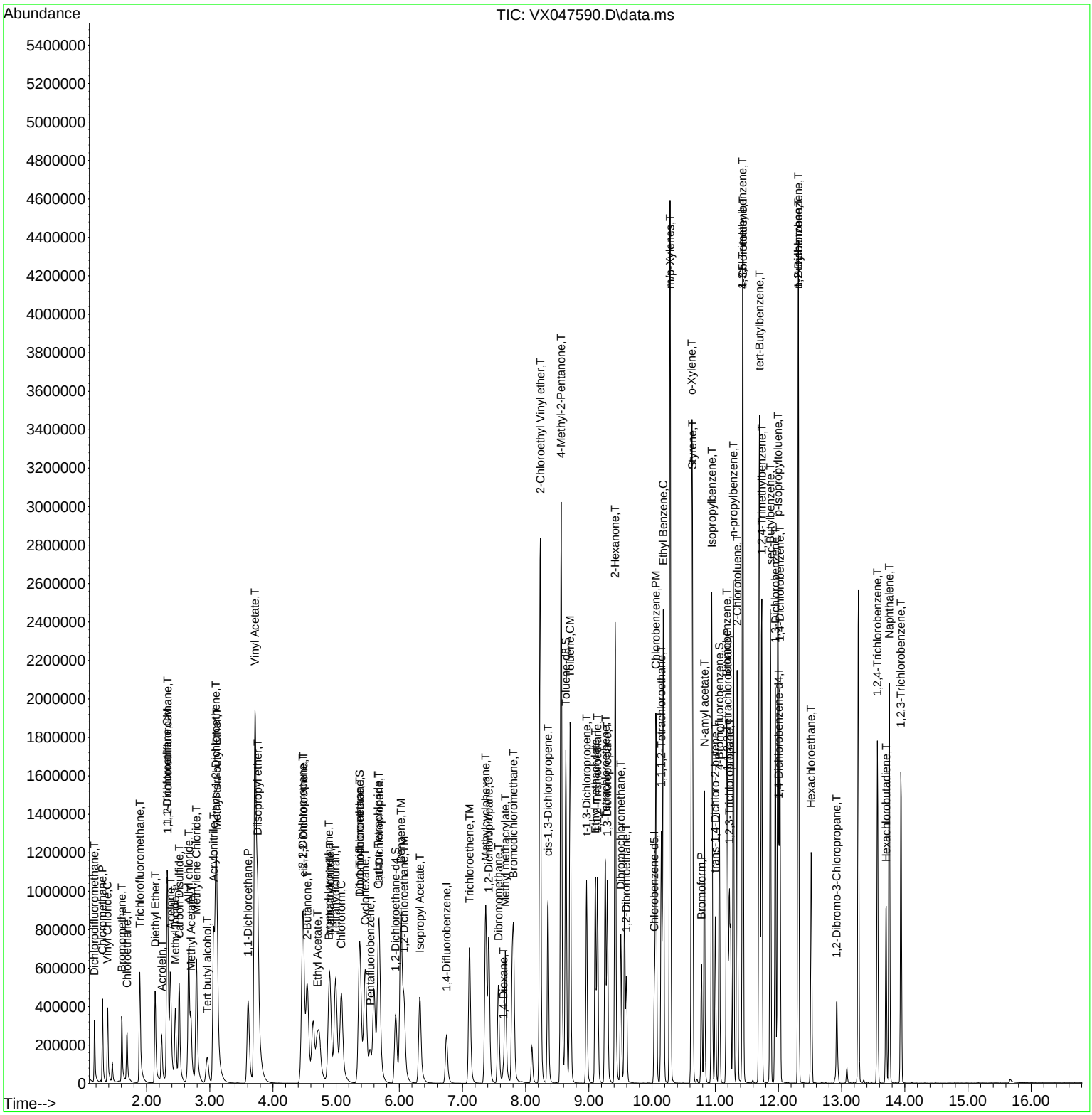
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

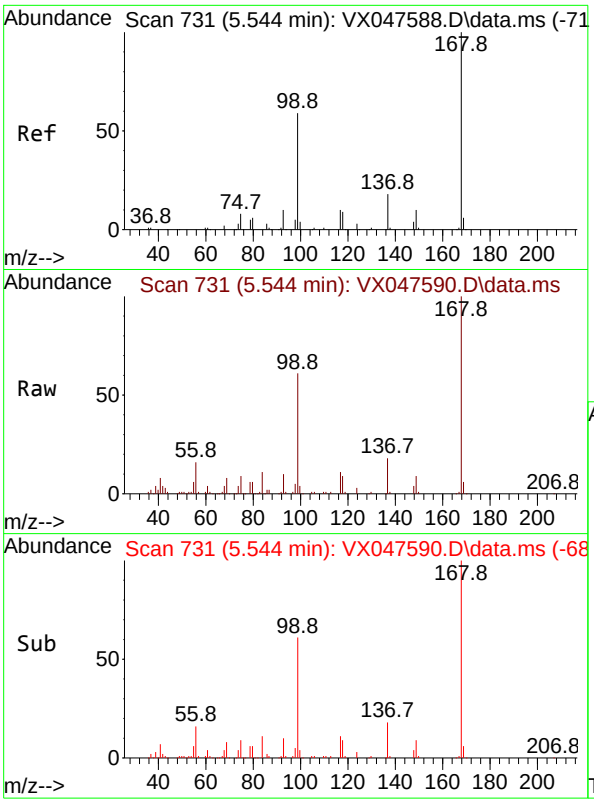
Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

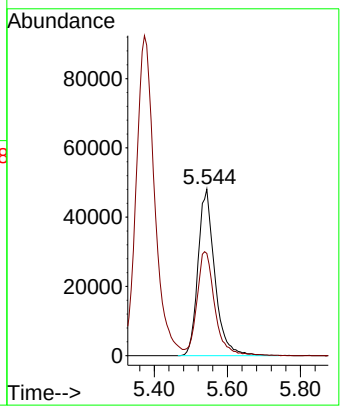




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:168 Resp: 15317

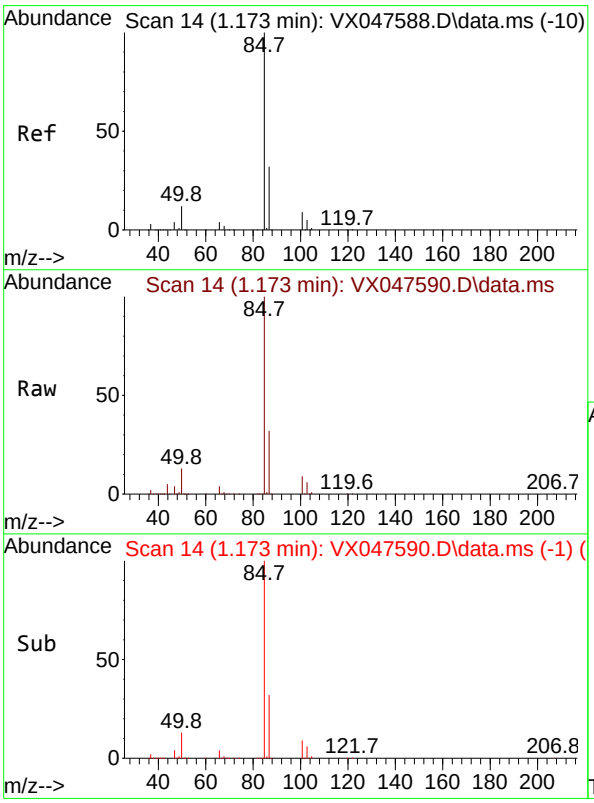
Ion	Ratio	Lower	Upper
168	100		
99	61.1	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

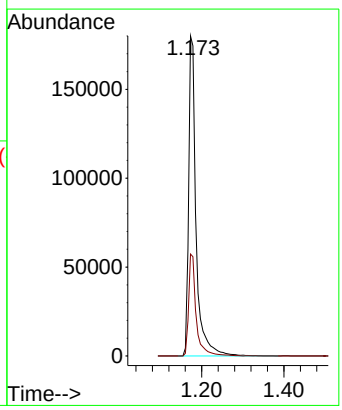
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

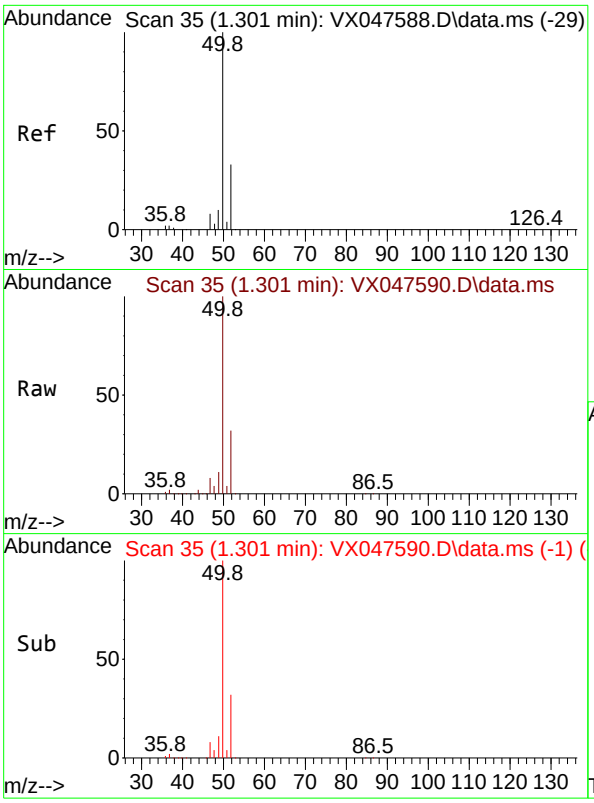


#2
Dichlorodifluoromethane
Concen: 142.586 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 85 Resp: 226166

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.8	47.3

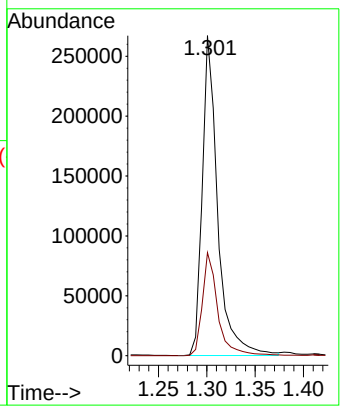




#3
Chloromethane
Concen: 142.593 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 50 Resp: 29725

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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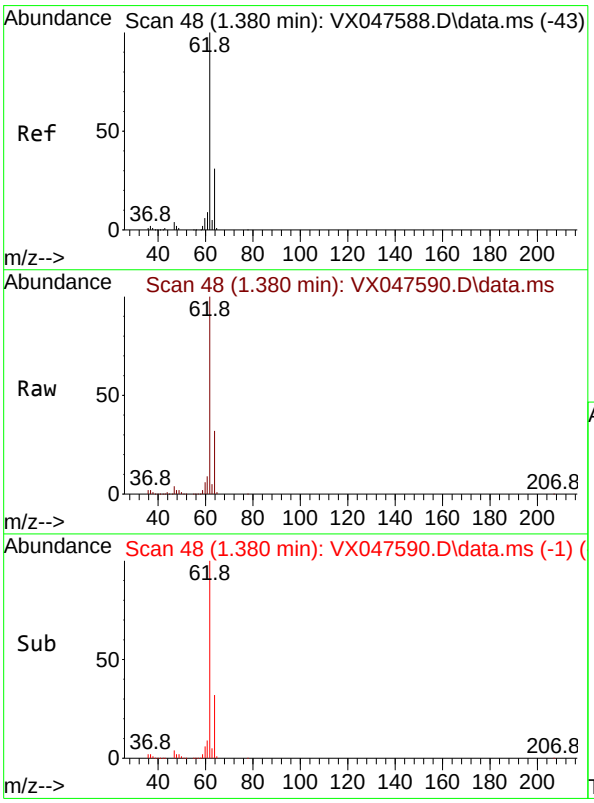
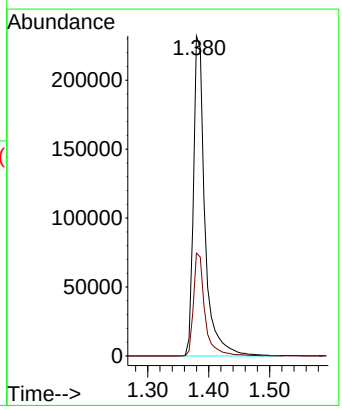
Supervised By :Mahesh Dadoda 09/18/2025

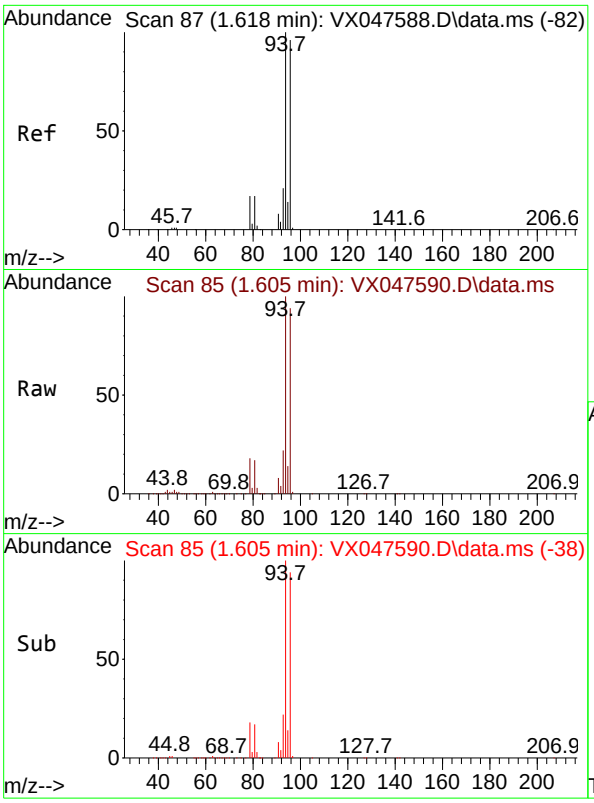


#4
Vinyl Chloride
Concen: 148.140 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 302303

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.9	37.3

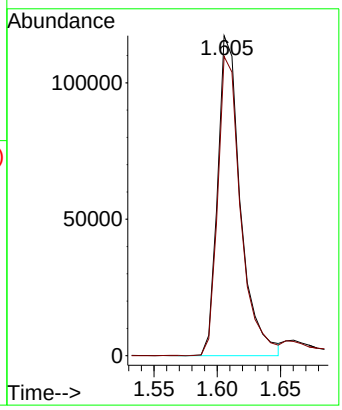




#5
Bromomethane
Concen: 114.019 ug/l
RT: 1.605 min Scan# 8
Delta R.T. -0.012 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 94 Resp: 14754

Ion	Ratio	Lower	Upper
94	100		
96	93.4	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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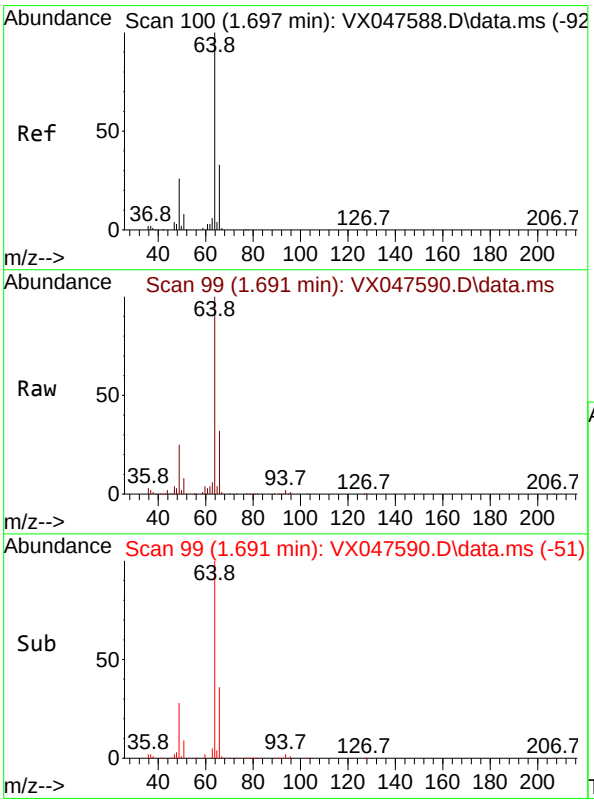
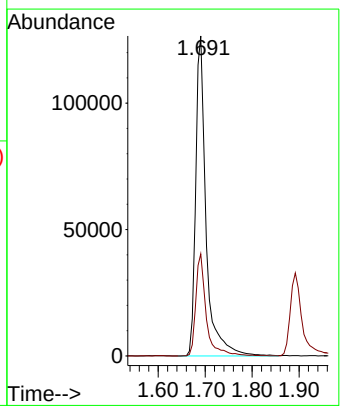
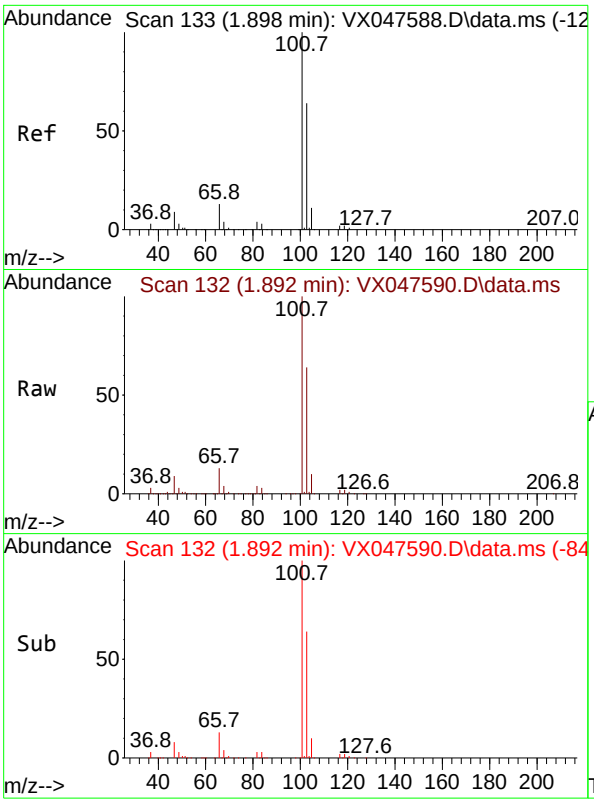


#6
Chloroethane
Concen: 143.652 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 64 Resp: 195927

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.1	39.1

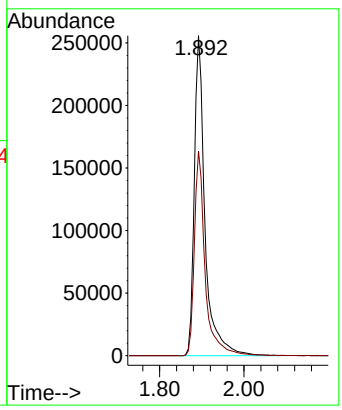




#7
Trichlorofluoromethane
Concen: 149.545 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:101 Resp: 45311

Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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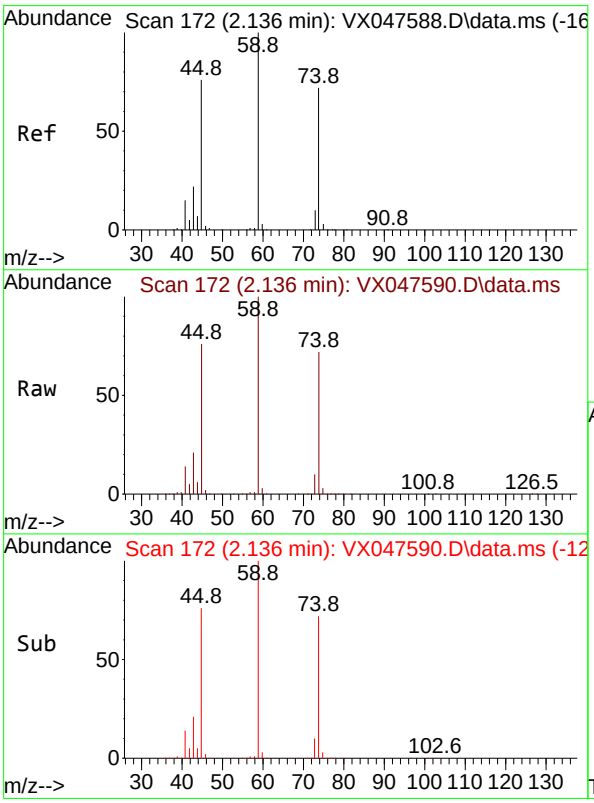
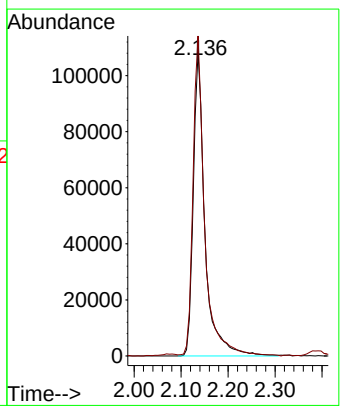
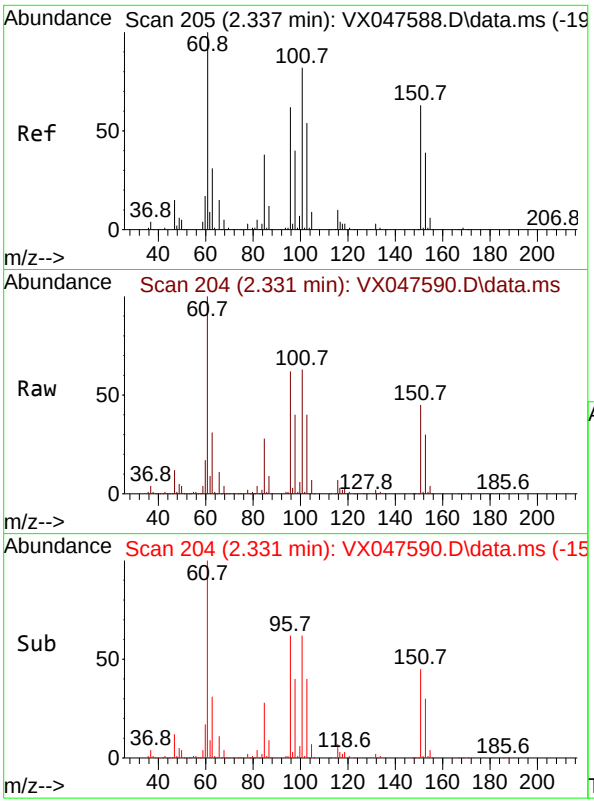


#8
Diethyl Ether
Concen: 151.684 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 74 Resp: 188006

Ion	Ratio	Lower	Upper
74	100		
45	105.5	52.3	156.8

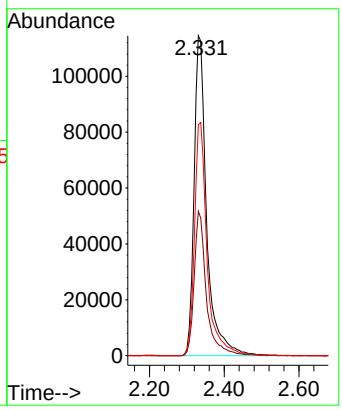




#9
1,1,2-Trichlorotrifluoroethane
Concen: 151.264 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:101 Resp: 26799

Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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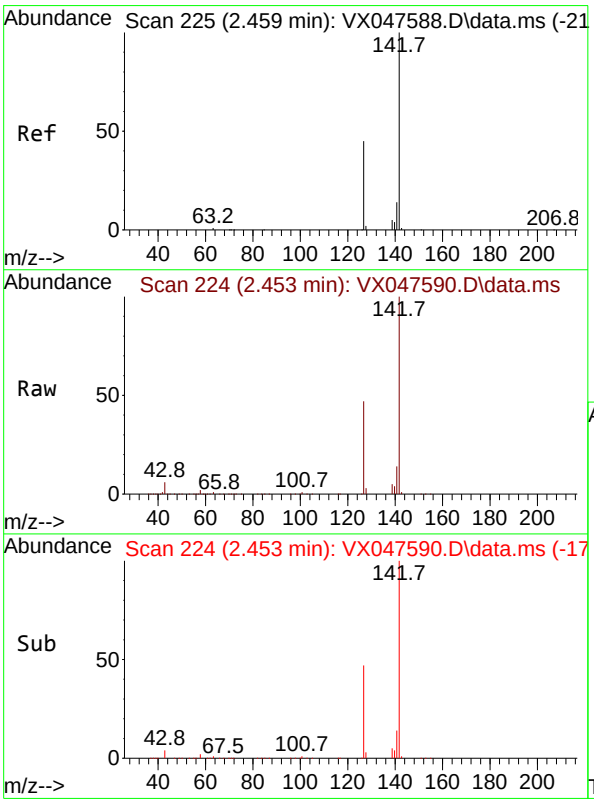
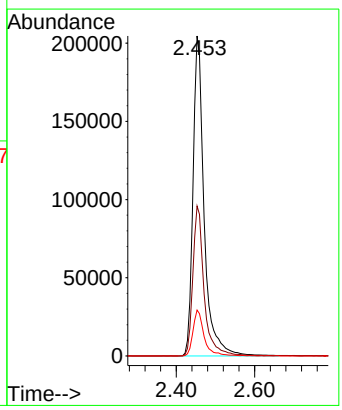
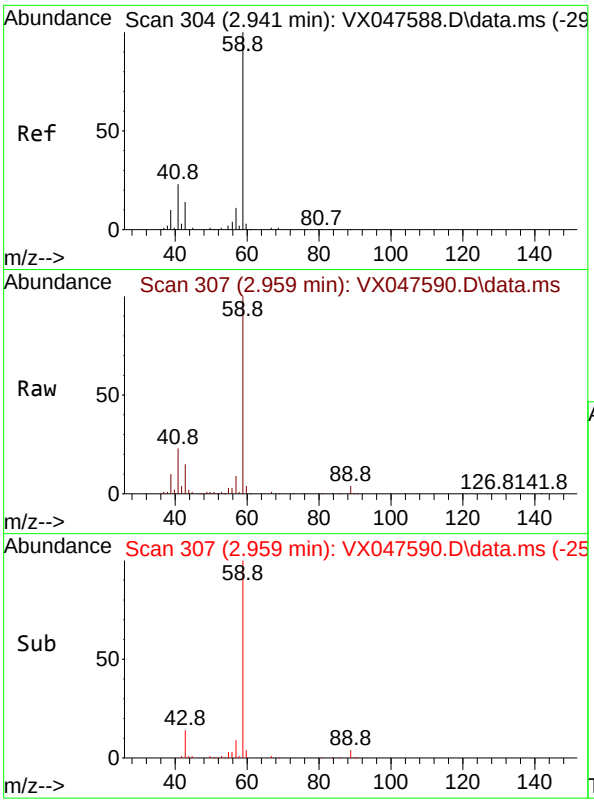


#10
Methyl Iodide
Concen: 147.384 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:142 Resp: 407242

Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.3	11.4	17.0

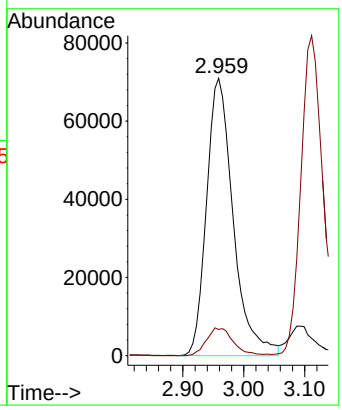




#11
Tert butyl alcohol
Concen: 795.166 ug/l
RT: 2.959 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 59 Resp: 21592

Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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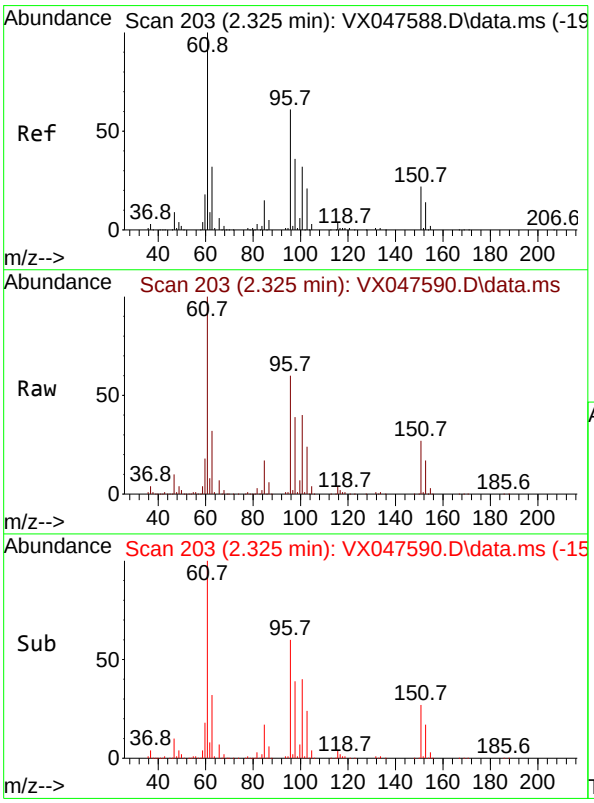
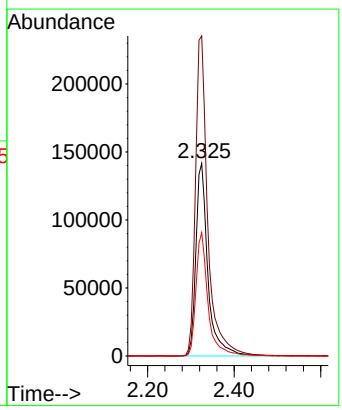
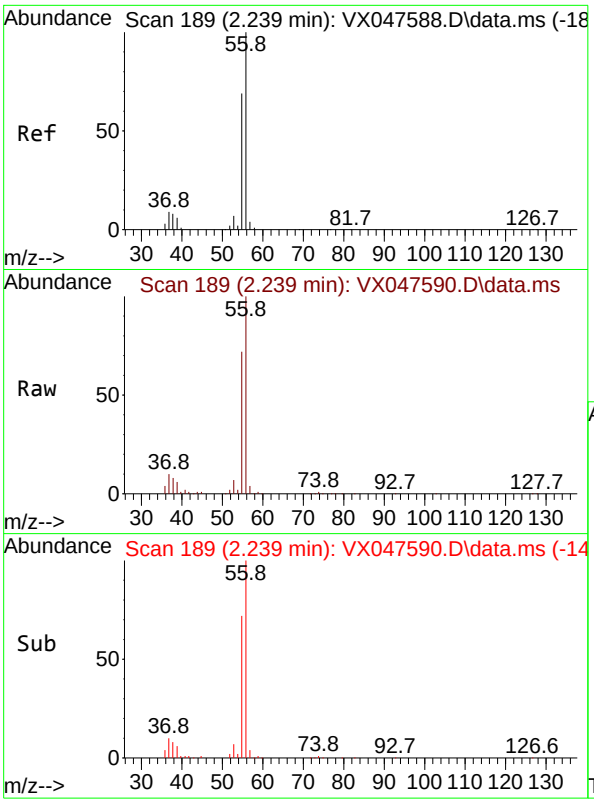


#12
1,1-Dichloroethene
Concen: 150.388 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 273692

Ion	Ratio	Lower	Upper
96	100		
61	166.1	131.0	196.6
98	64.0	47.7	71.5

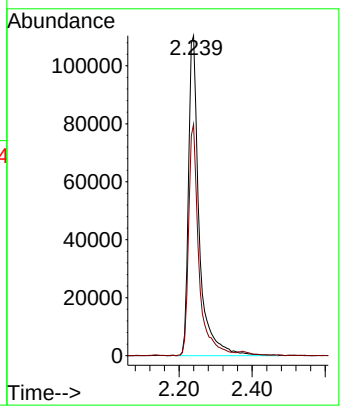




#13
Acrolein
Concen: 894.203 ug/l
RT: 2.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 56 Resp: 22376

Ion	Ratio	Lower	Upper
56	100		
55	69.6	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :John Carlone 09/17/2025
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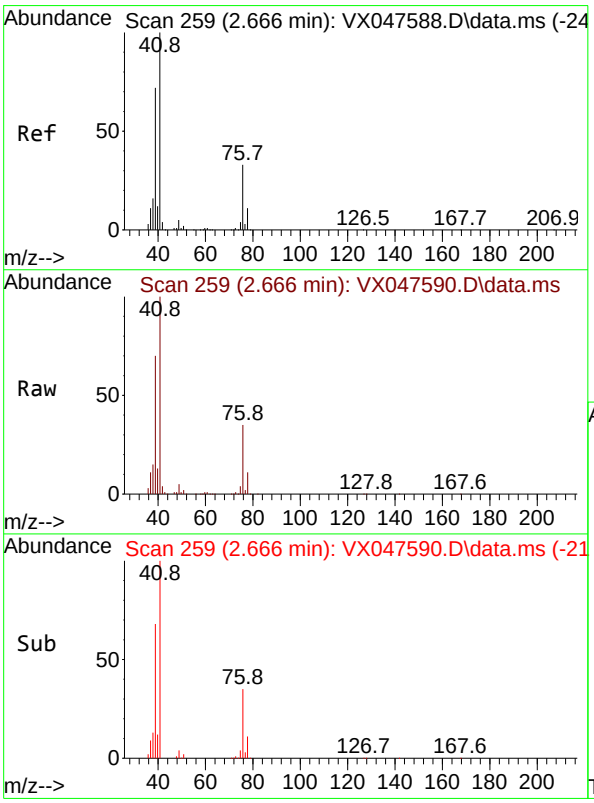
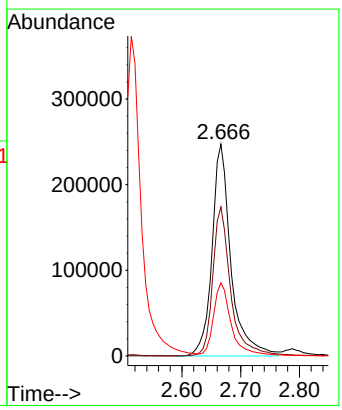
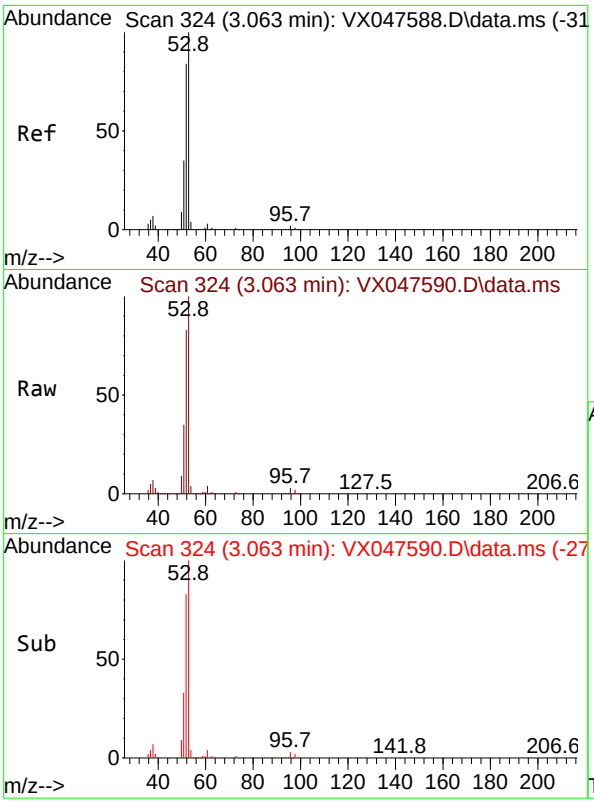


#14
Allyl chloride
Concen: 147.727 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 554779

Ion	Ratio	Lower	Upper
41	100		
39	67.3	54.7	82.1
76	32.4	25.7	38.5

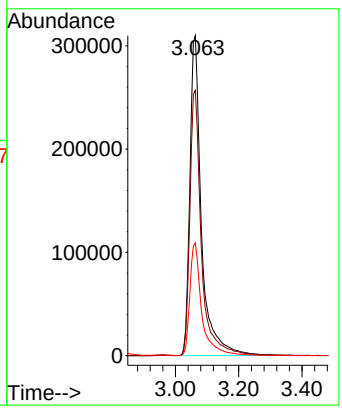




#15
Acrylonitrile
Concen: 786.201 ug/l
RT: 3.063 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 53 Resp: 79079

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.1	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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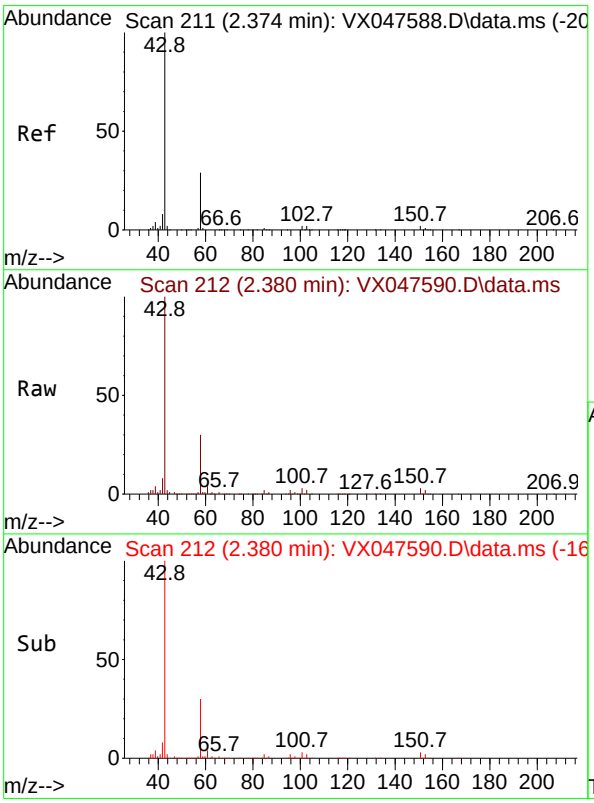
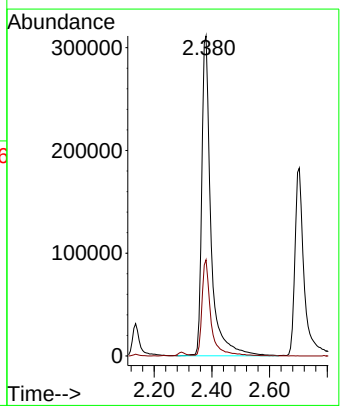
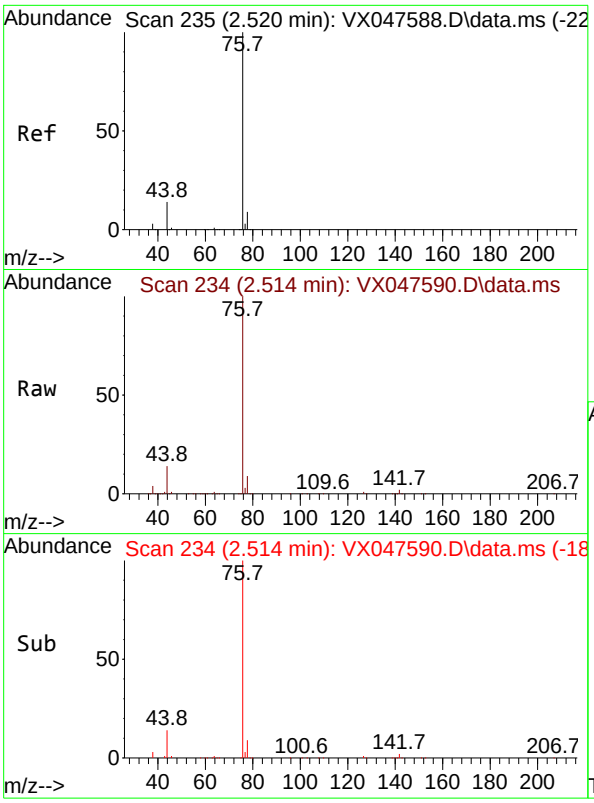


#16
Acetone
Concen: 647.201 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 686119

Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0

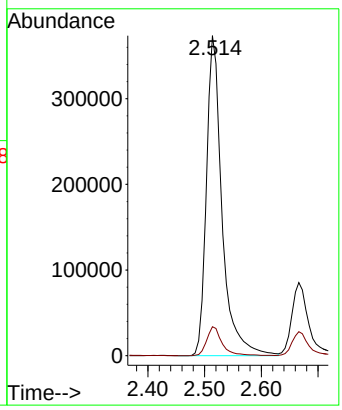




#17
Carbon Disulfide
Concen: 143.412 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 76 Resp: 71450

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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Reviewed By :John Carlone 09/17/2025
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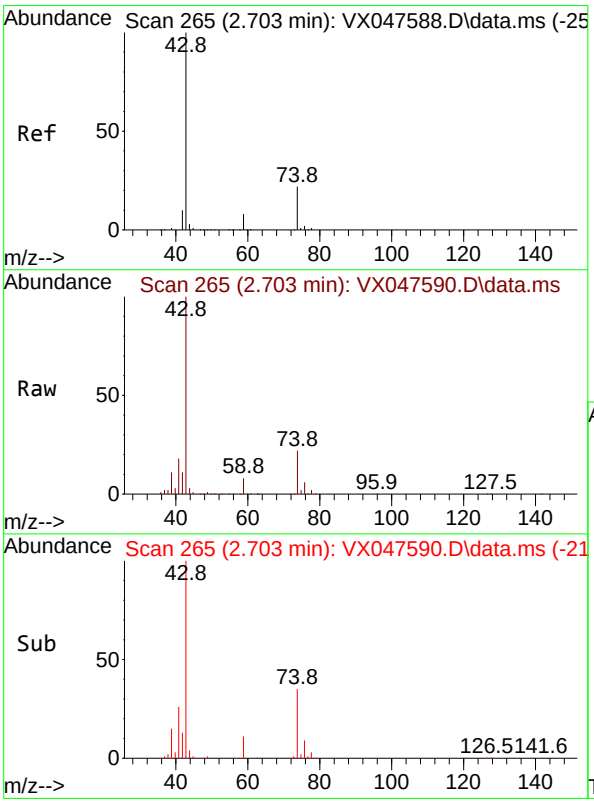
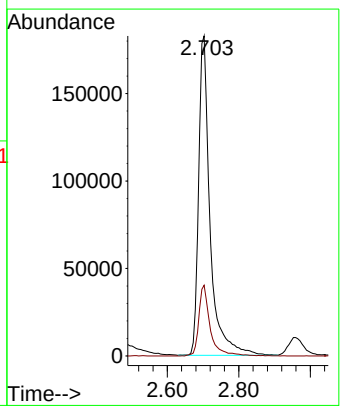
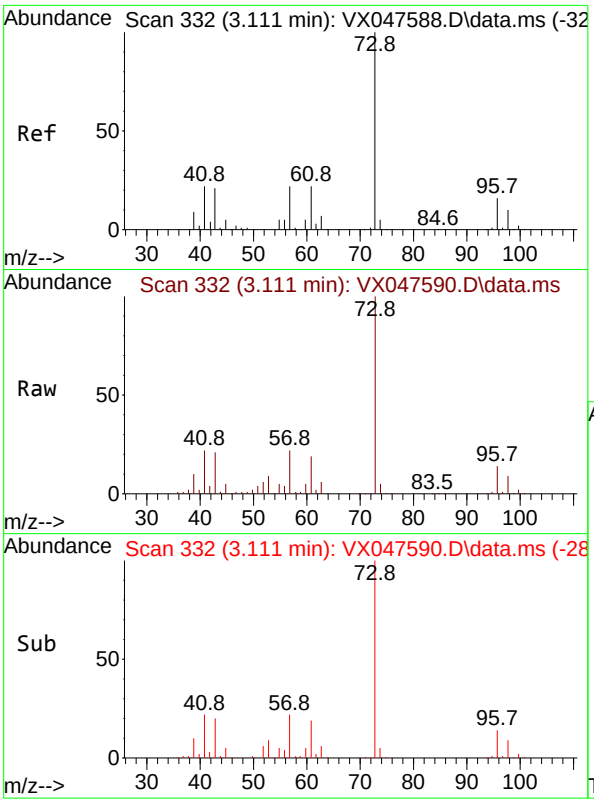


#18
Methyl Acetate
Concen: 171.548 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 404736

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2

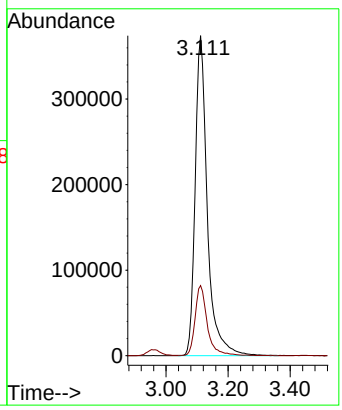




#19
Methyl tert-butyl Ether
Concen: 152.826 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 73 Resp: 101529

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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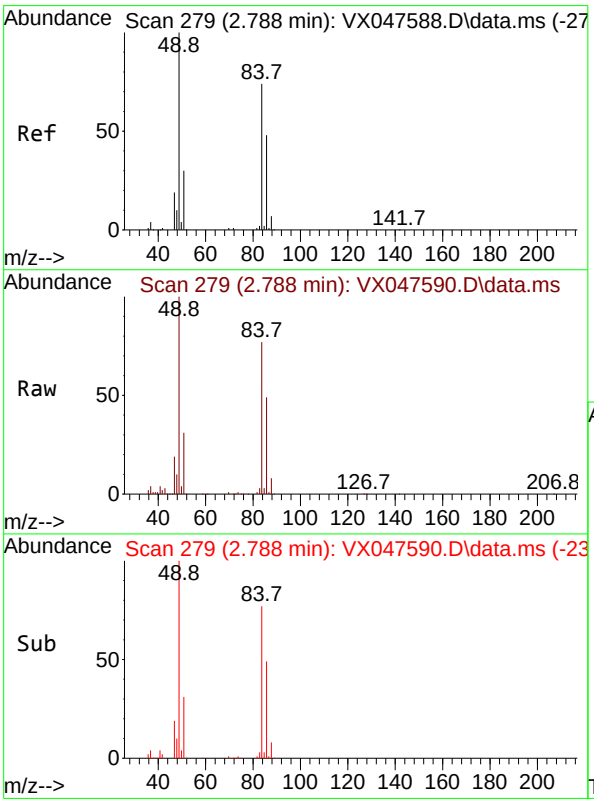
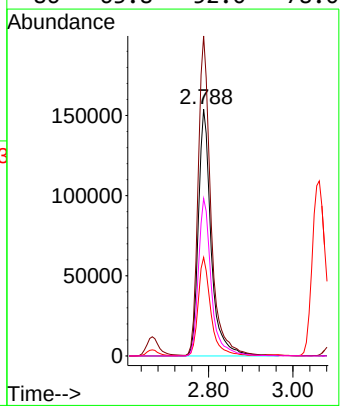
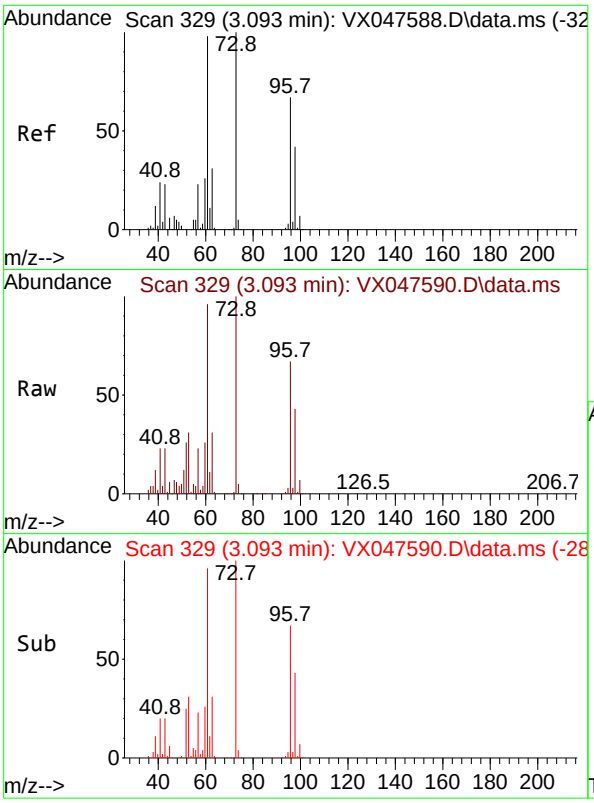


#20
Methylene Chloride
Concen: 144.398 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 84 Resp: 324032

Ion	Ratio	Lower	Upper
84	100		
49	129.4	108.6	162.8
51	39.9	32.6	48.8
86	63.8	52.0	78.0

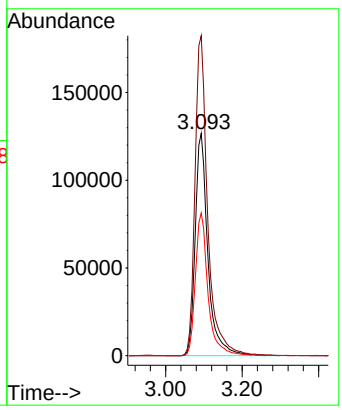




#21
trans-1,2-Dichloroethene
Concen: 148.833 ug/l
RT: 3.093 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 29161

Ion	Ratio	Lower	Upper
96	100		
61	144.0	116.2	174.2
98	64.3	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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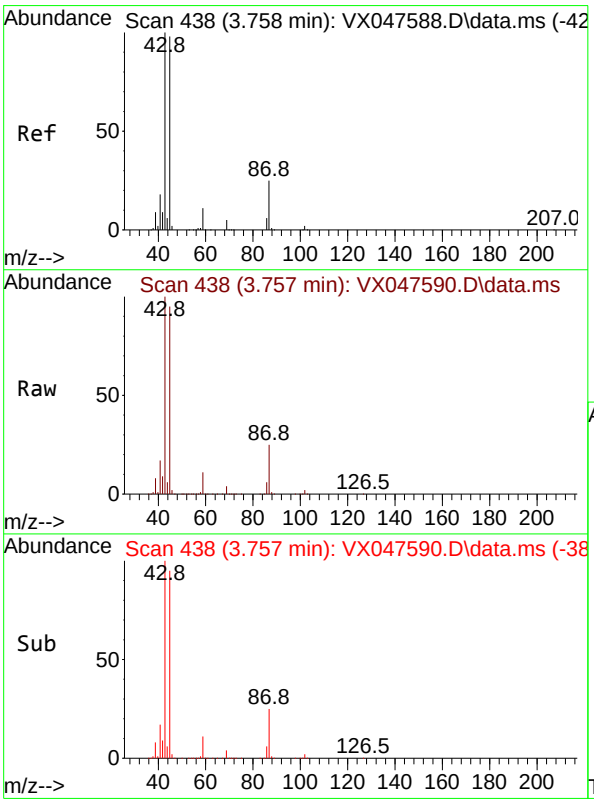
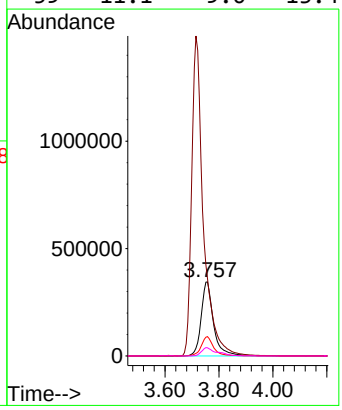
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

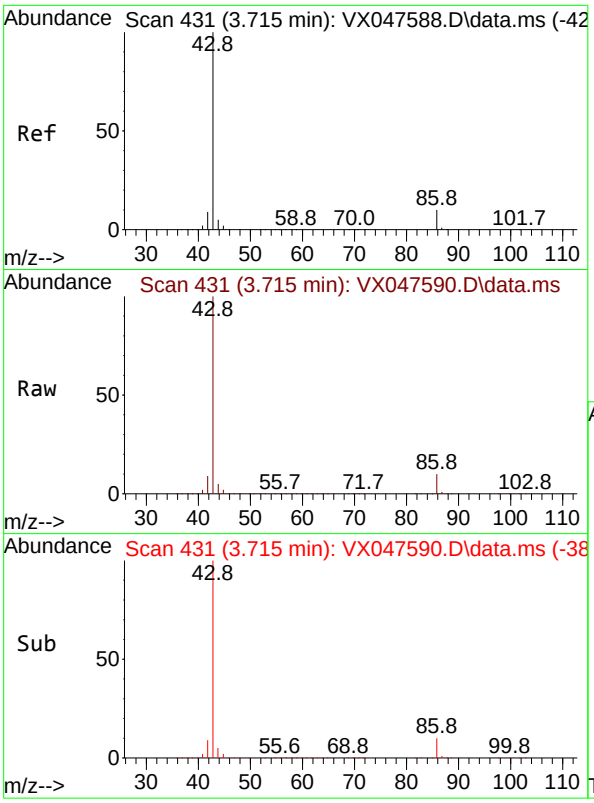


#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 45 Resp: 1095726

Ion	Ratio	Lower	Upper
45	100		
43	104.7	81.0	121.4
87	26.2	20.3	30.5
59	11.1	9.0	13.4

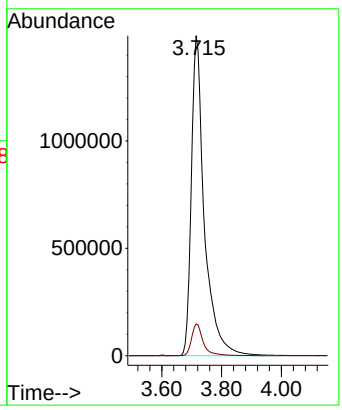




#23
Vinyl Acetate
Concen: 773.364 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 450484

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :John Carlone 09/17/2025
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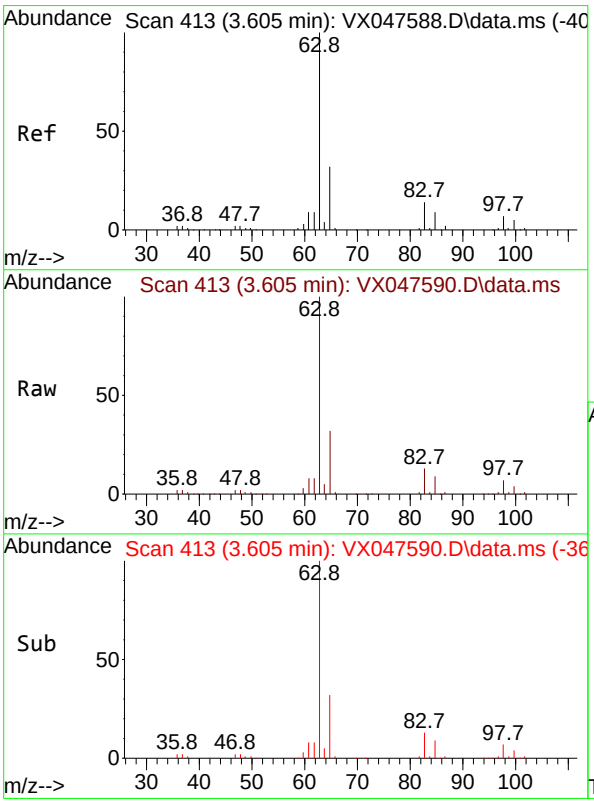
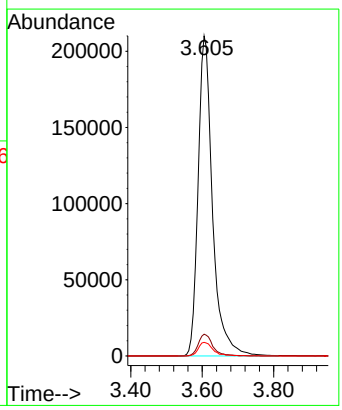
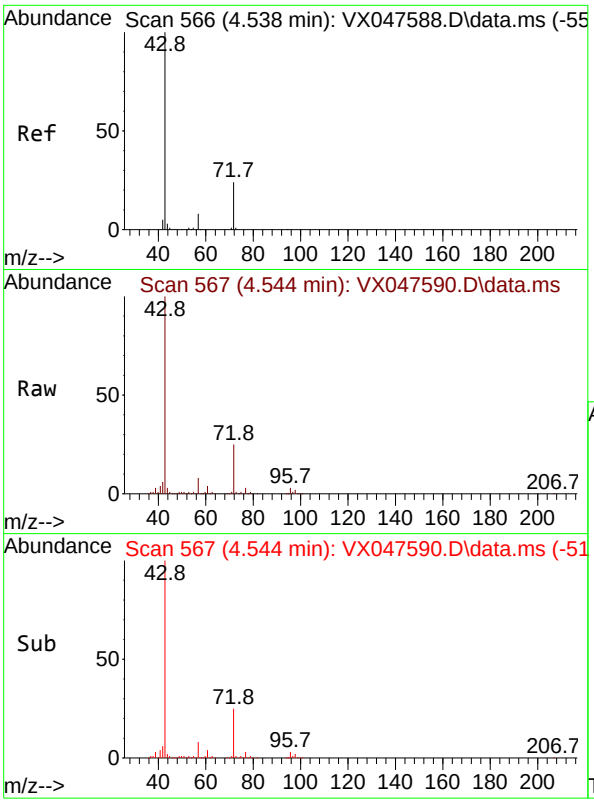


#24
1,1-Dichloroethane
Concen: 151.776 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 587129

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.2
100	4.3	2.3	6.9

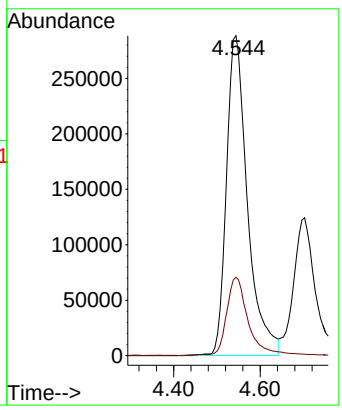




#25
2-Butanone
Concen: 736.502 ug/l
RT: 4.544 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 97393

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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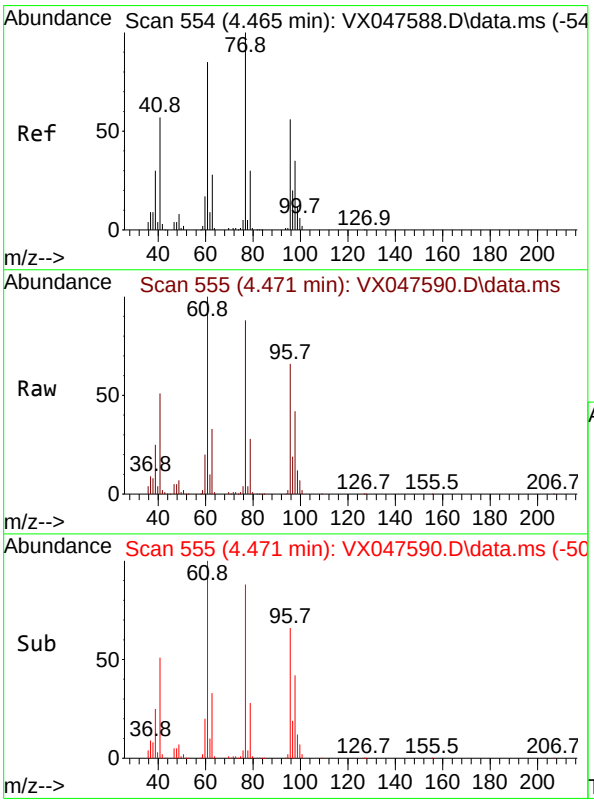
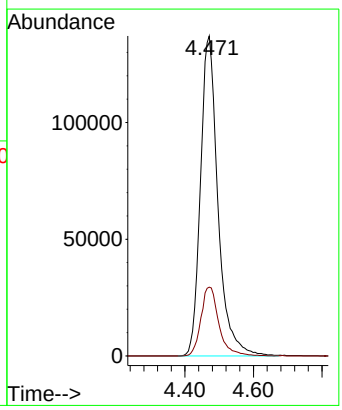
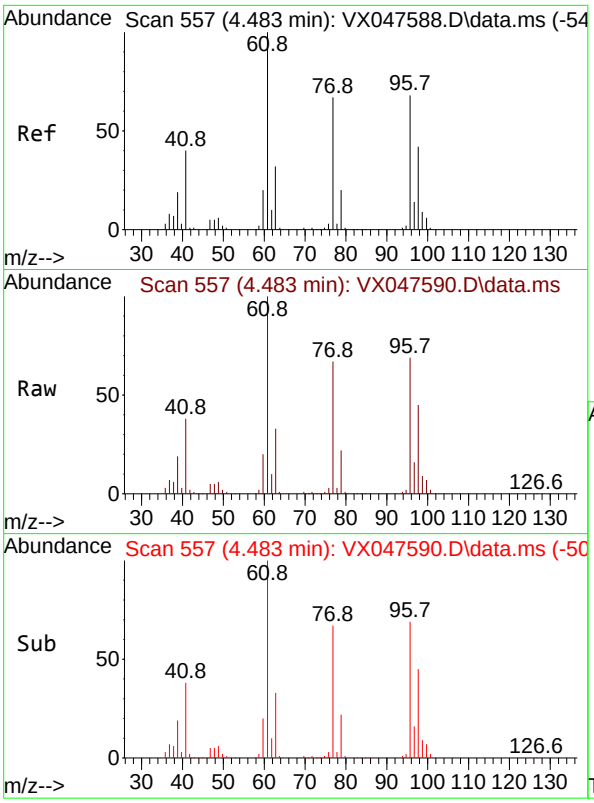


#26
2,2-Dichloropropane
Concen: 151.414 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 77 Resp: 486890

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.9	32.7

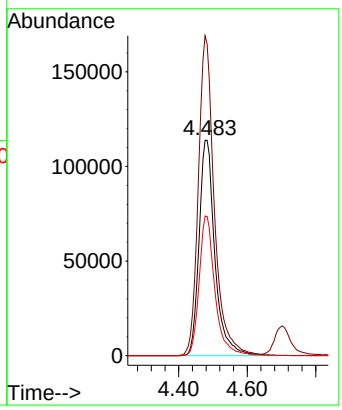




#27
cis-1,2-Dichloroethene
Concen: 152.638 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 96 Resp: 36626

Ion	Ratio	Lower	Upper
96	100		
61	149.8	0.0	303.2
98	64.6	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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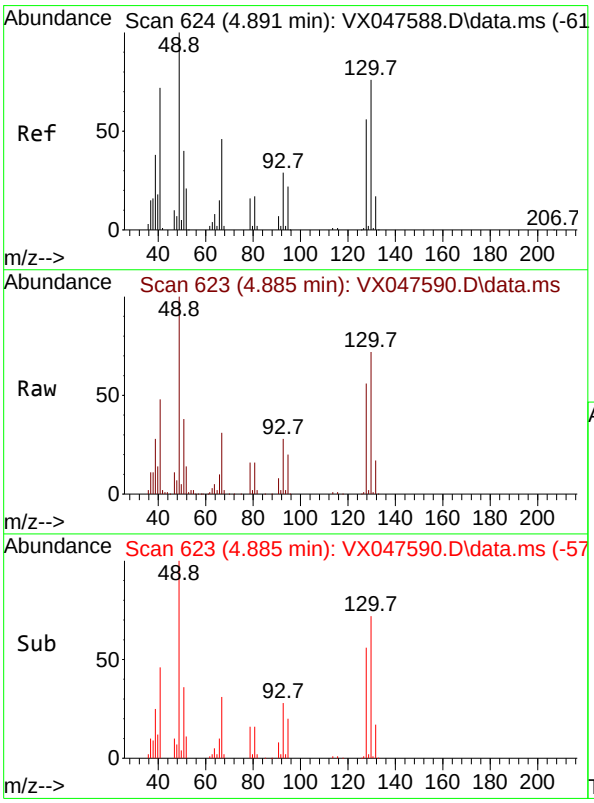
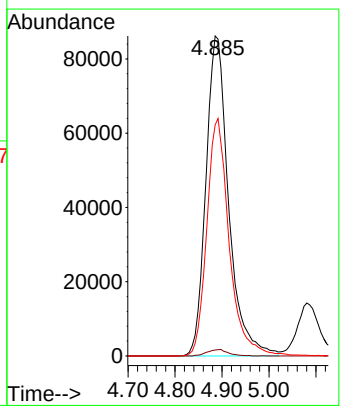
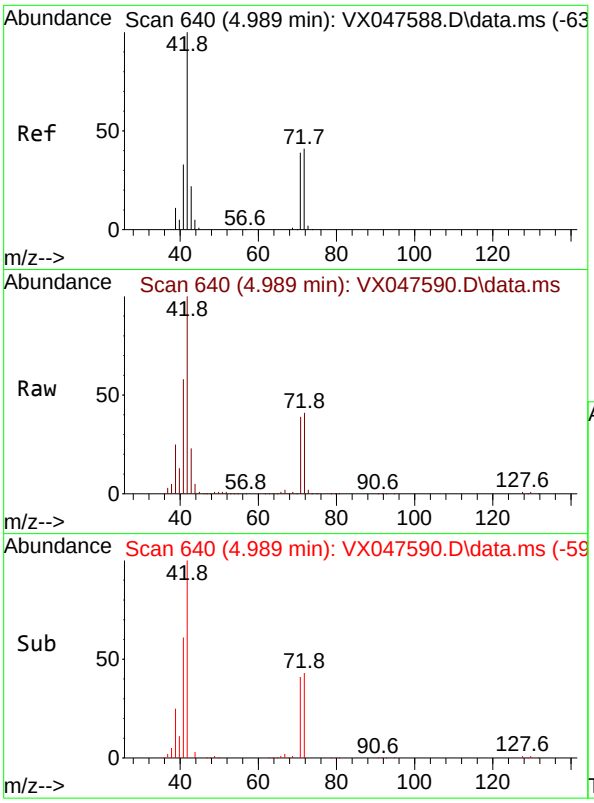


#28
Bromochloromethane
Concen: 171.451 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 49 Resp: 289548

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	73.2	57.8	86.8

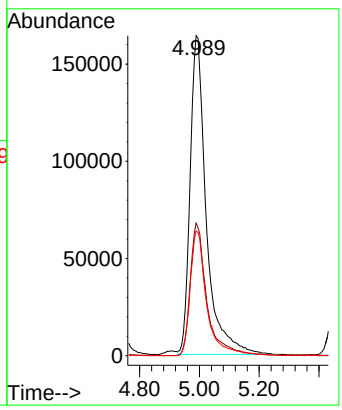




#29
Tetrahydrofuran
Concen: 774.811 ug/l
RT: 4.989 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 42 Resp: 616374

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.2	51.2
71	39.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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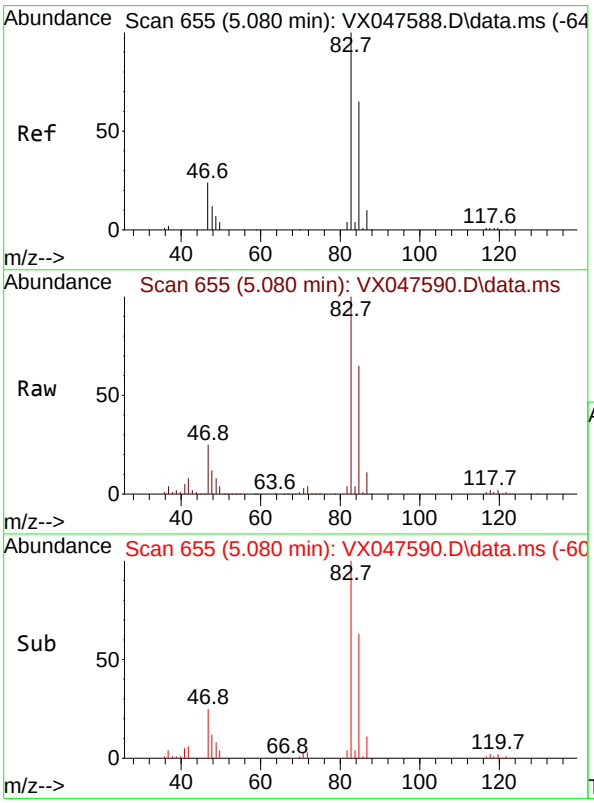
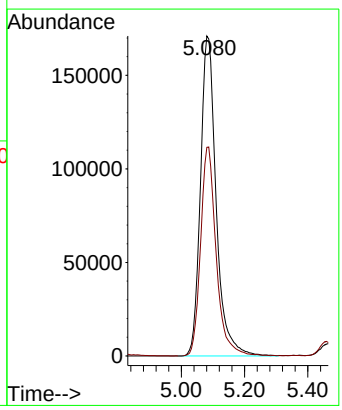
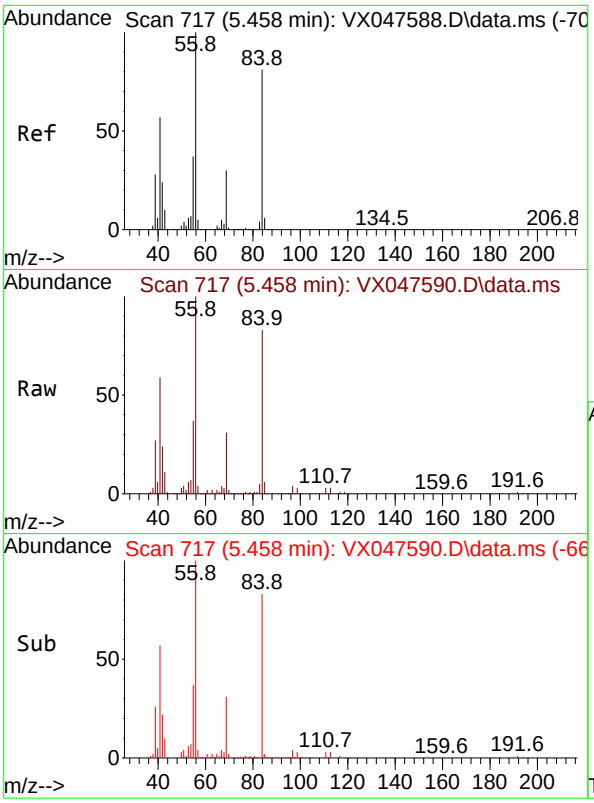


#30
Chloroform
Concen: 151.367 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 591709

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.6

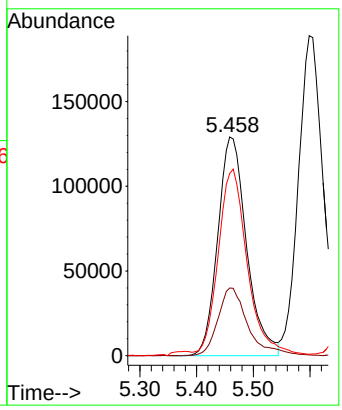




#31
Cyclohexane
Concen: 141.570 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 56 Resp: 45611

Ion	Ratio	Lower	Upper
56	100		
69	30.5	23.8	35.8
84	81.5	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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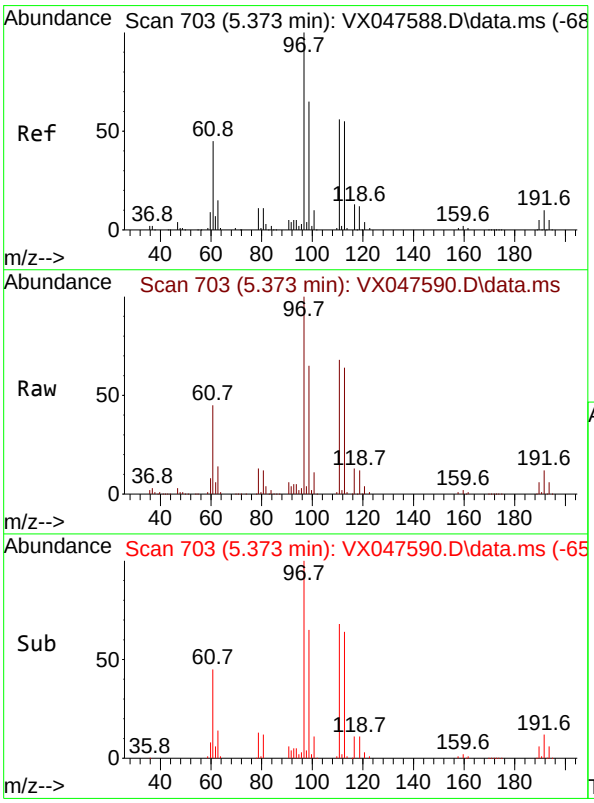
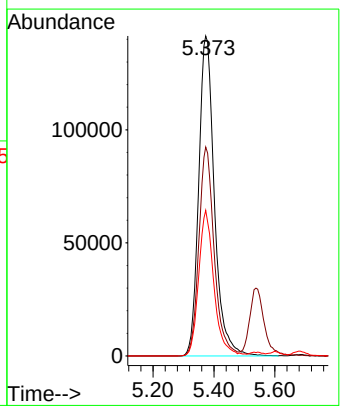
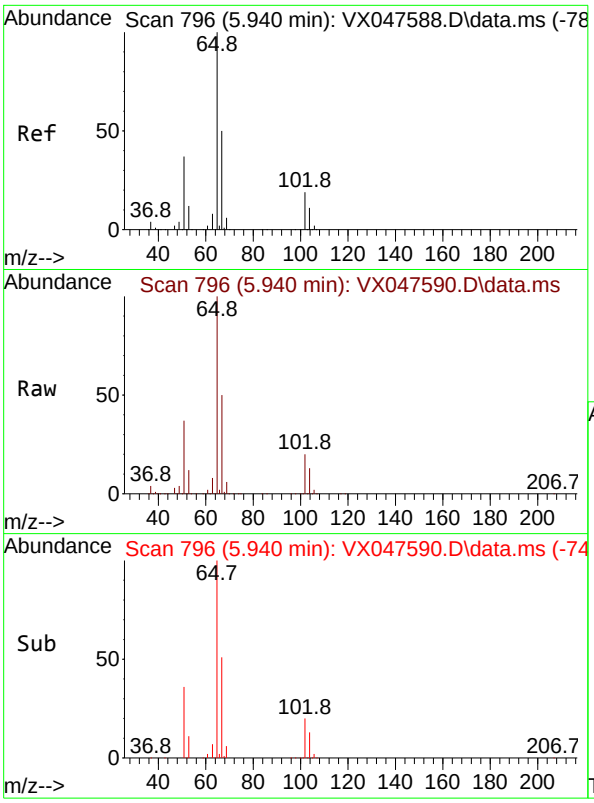


#32
1,1,1-Trichloroethane
Concen: 152.802 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 97 Resp: 506654

Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.6	76.0
61	44.2	35.8	53.8

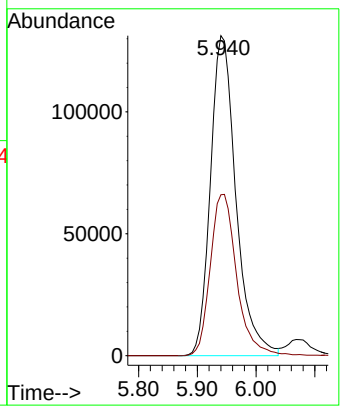




#33
1,2-Dichloroethane-d4
Concen: 162.673 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 65 Resp: 39662

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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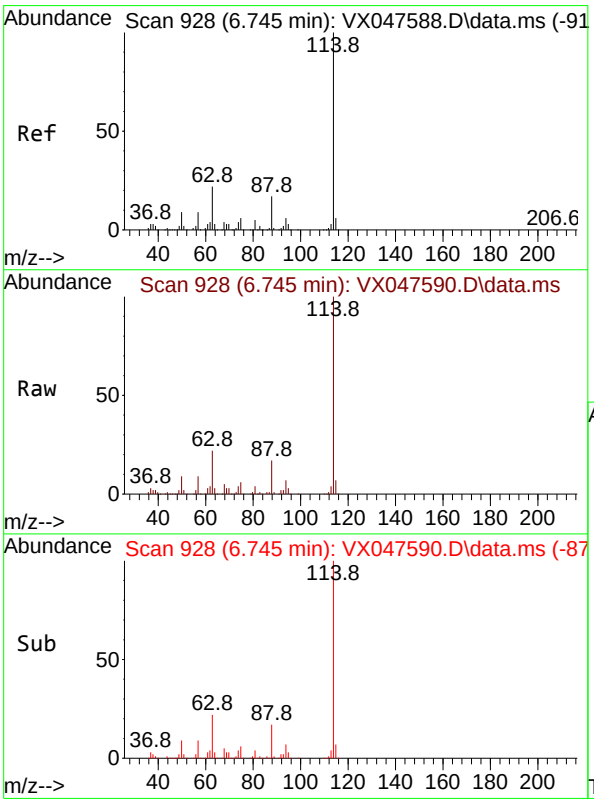
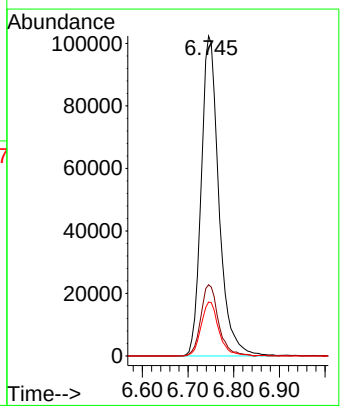
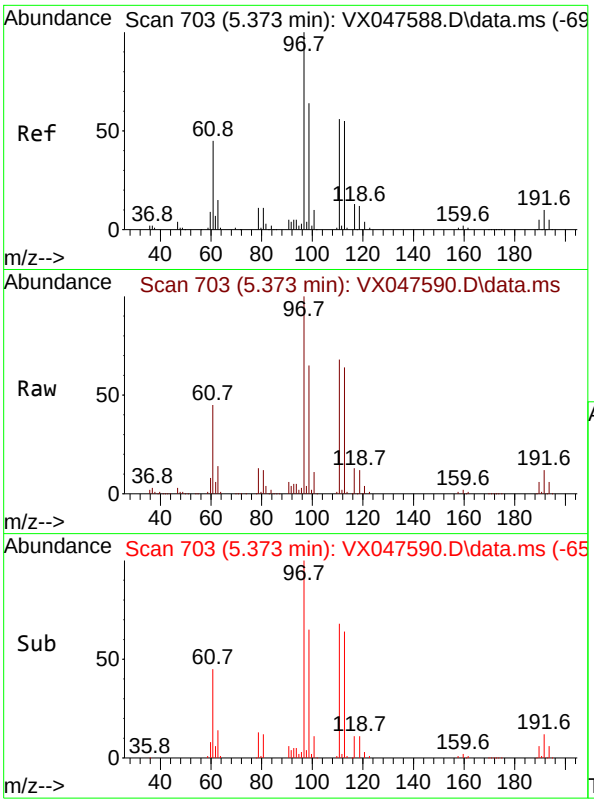


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:114 Resp: 274804

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

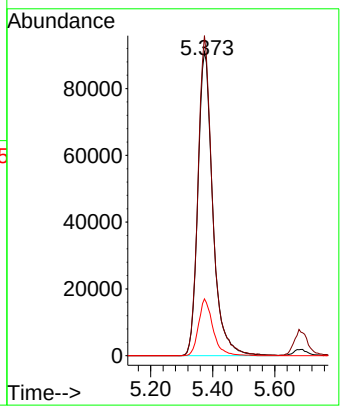




#35
Dibromofluoromethane
Concen: 164.802 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:113 Resp: 30372

Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.9	121.3
192	18.1	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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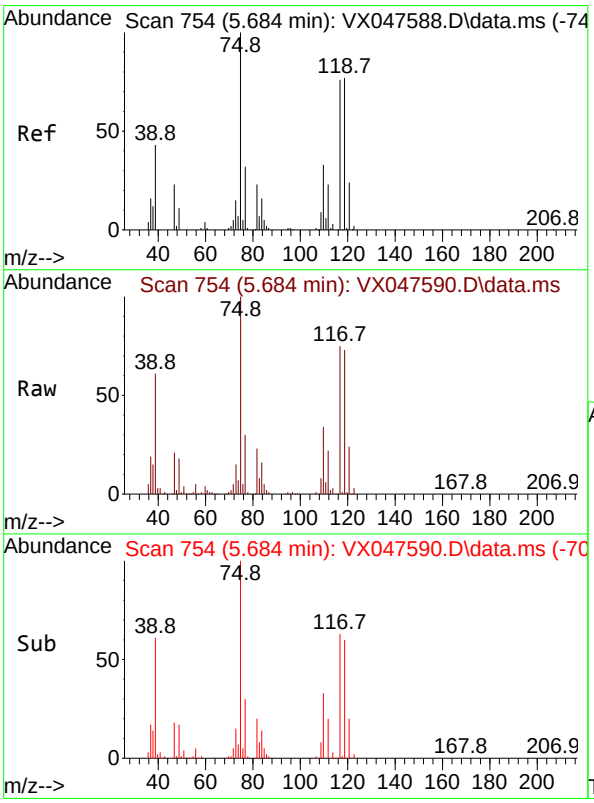
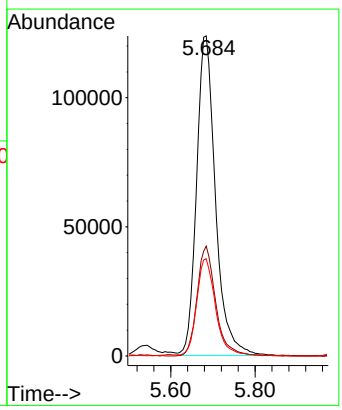
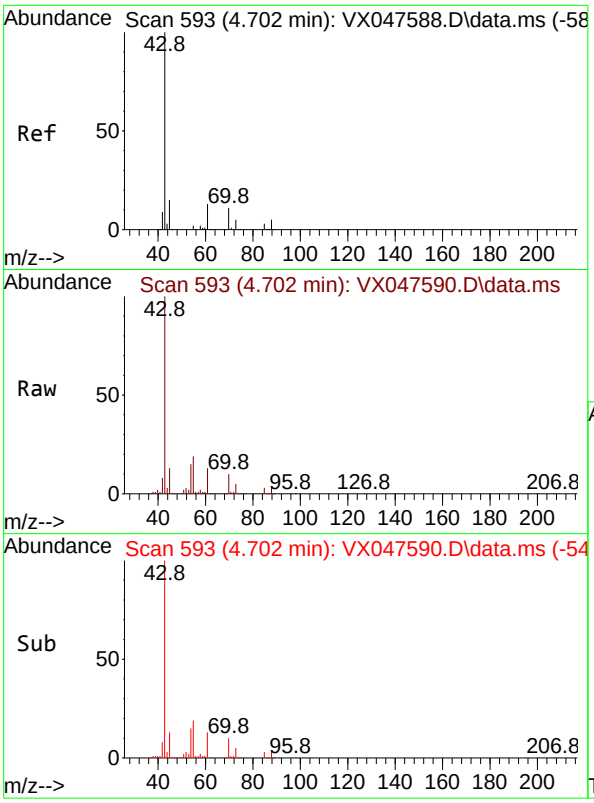


#36
1,1-Dichloropropene
Concen: 143.556 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 386601

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	30.6	24.3	36.5





#37
Ethyl Acetate
Concen: 154.141 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

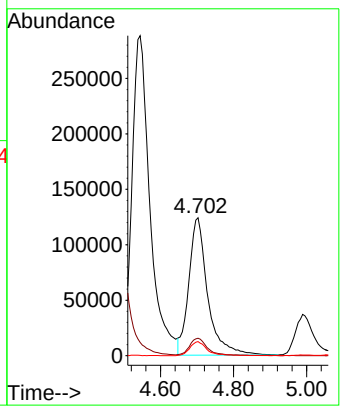
Tgt Ion: 43 Resp: 44446

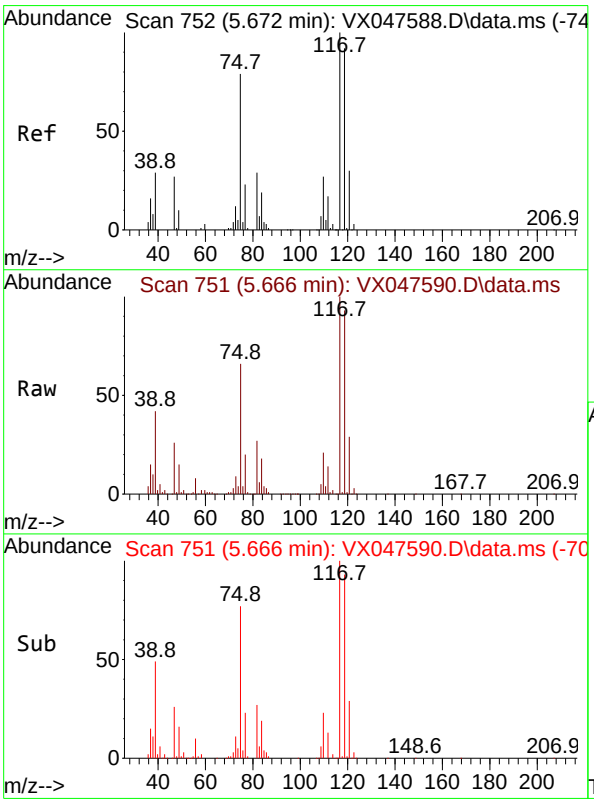
Ion	Ratio	Lower	Upper
43	100		
61	12.1	9.8	14.8
70	9.5	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

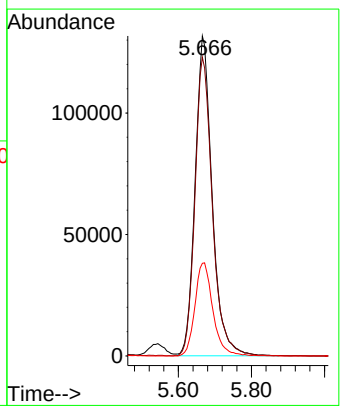


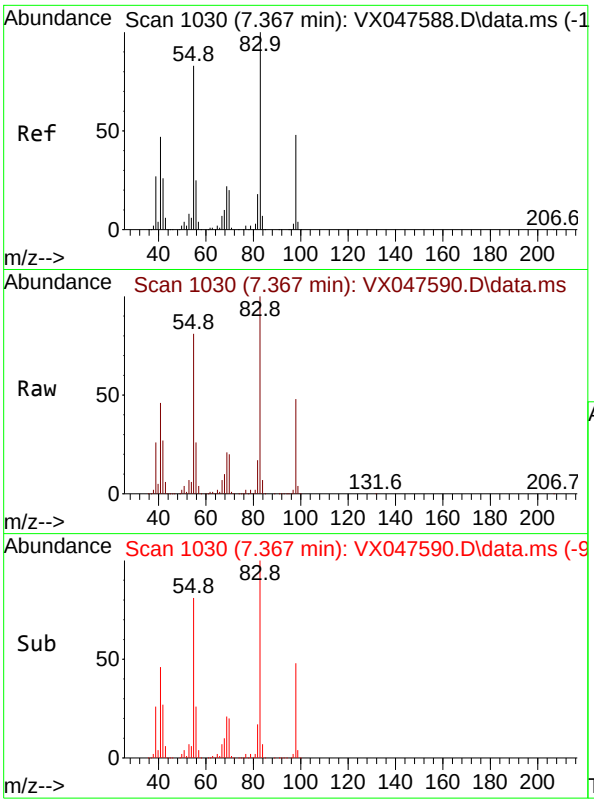


#38
Carbon Tetrachloride
Concen: 146.021 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 427263

Ion	Ratio	Lower	Upper
117	100		
119	93.3	73.4	110.2
121	29.0	23.8	35.6





#39
Methylcyclohexane
Concen: 149.395 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 45669

Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.3	38.1	57.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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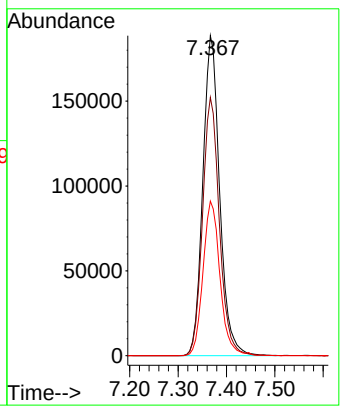
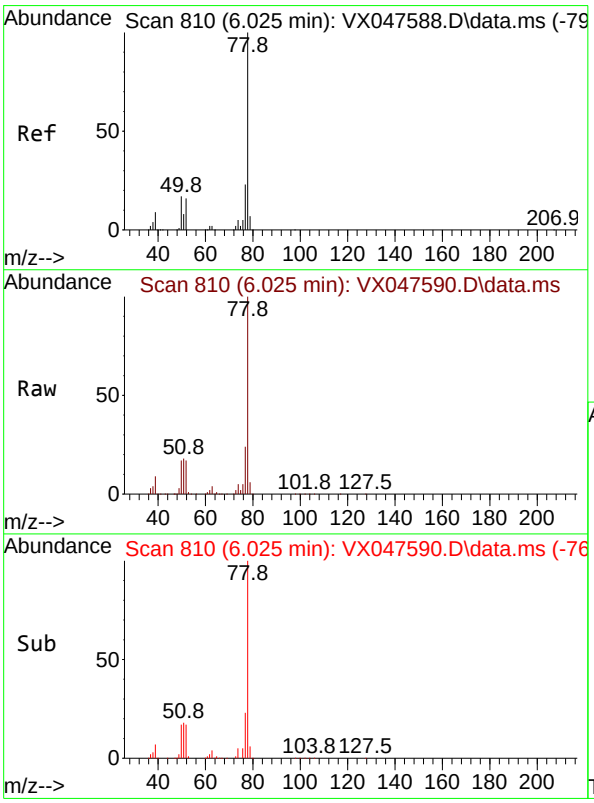
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

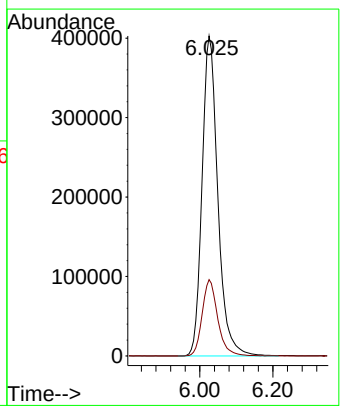


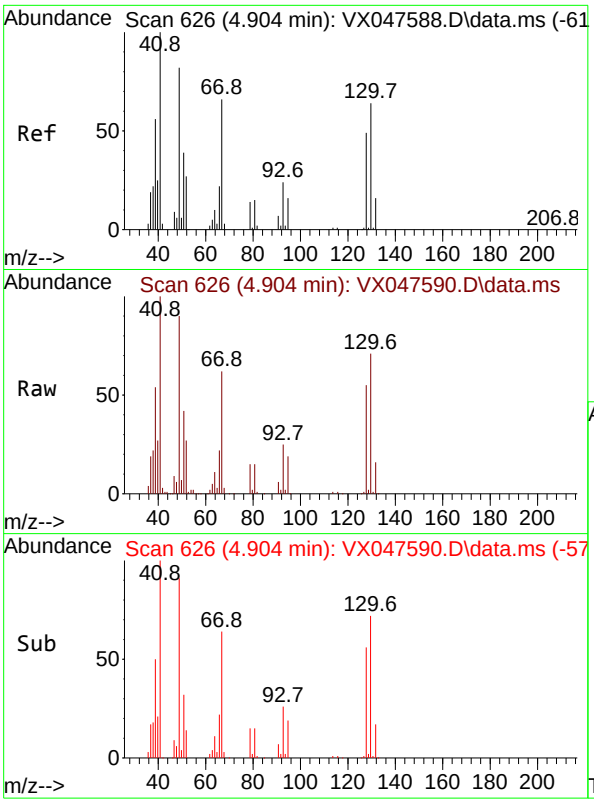


#40
Benzene
Concen: 147.057 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 78 Resp: 1202846

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2

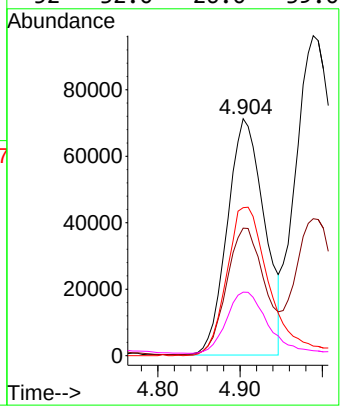




#41
Methacrylonitrile
Concen: 149.951 ug/l
RT: 4.904 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 22321

Ion	Ratio	Lower	Upper
41	100		
39	54.5	43.3	64.9
67	74.6	58.6	87.8
52	32.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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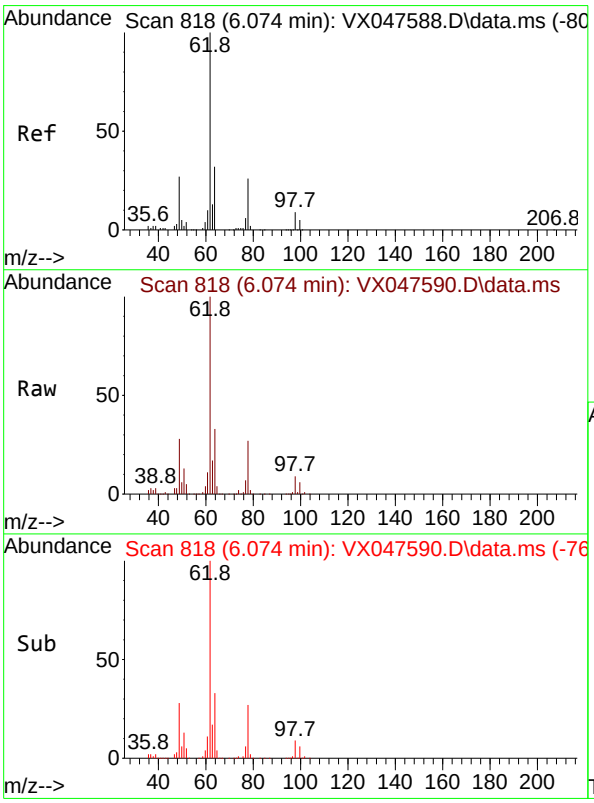
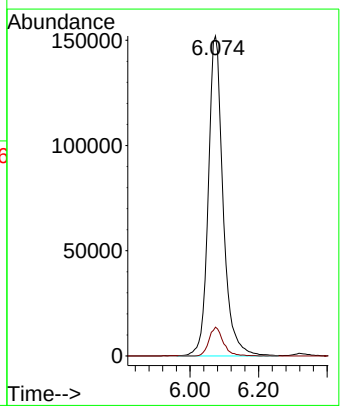
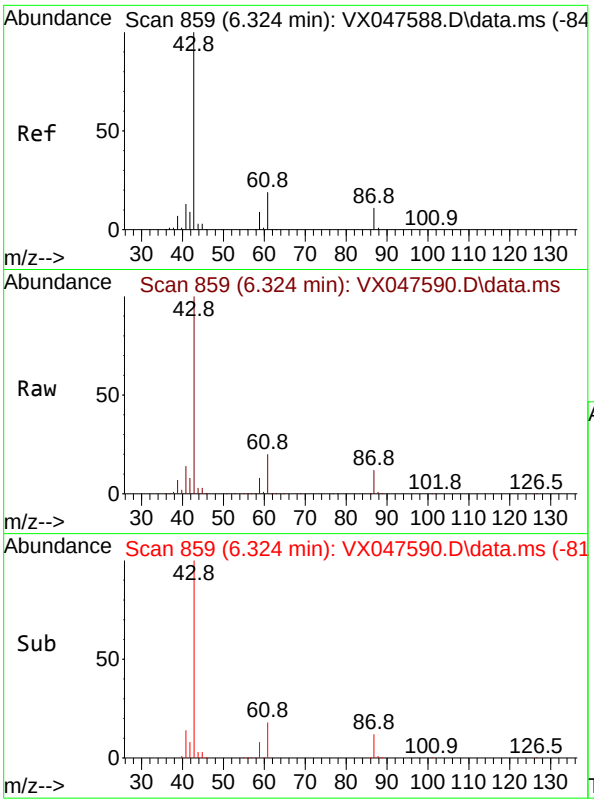


#42
1,2-Dichloroethane
Concen: 146.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 455978

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

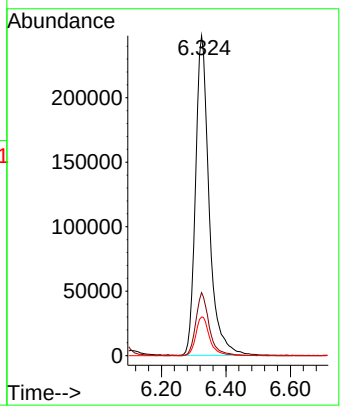




#43
Isopropyl Acetate
Concen: 153.283 ug/l
RT: 6.324 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 72488

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.3	9.6	14.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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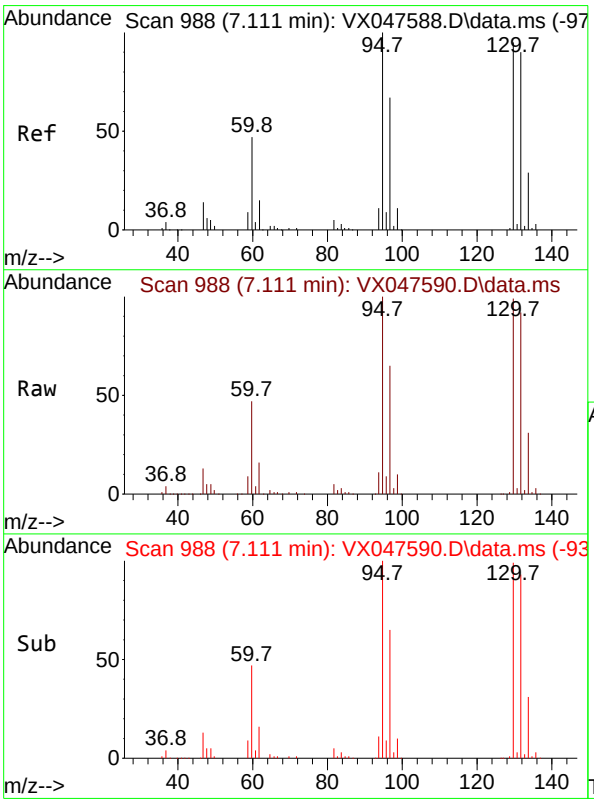
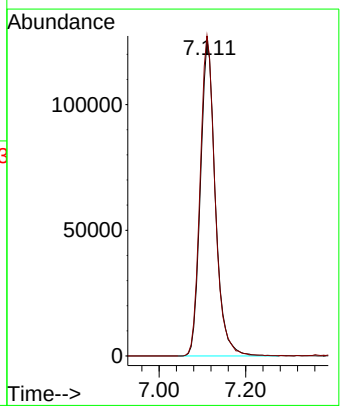
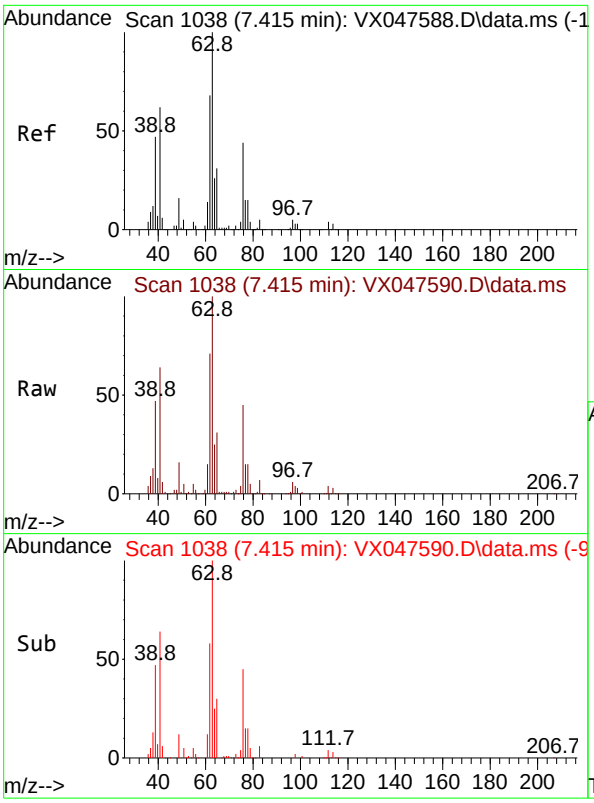


#44
Trichloroethene
Concen: 151.542 ug/l
RT: 7.111 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:130 Resp: 299673

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	210.8

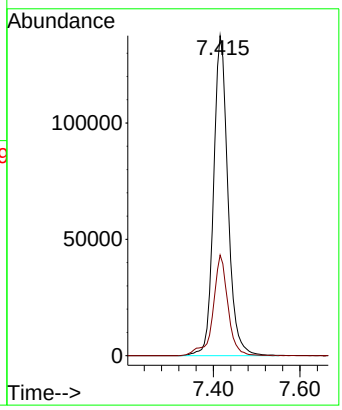




#45
1,2-Dichloropropane
Concen: 151.219 ug/l
RT: 7.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 31672

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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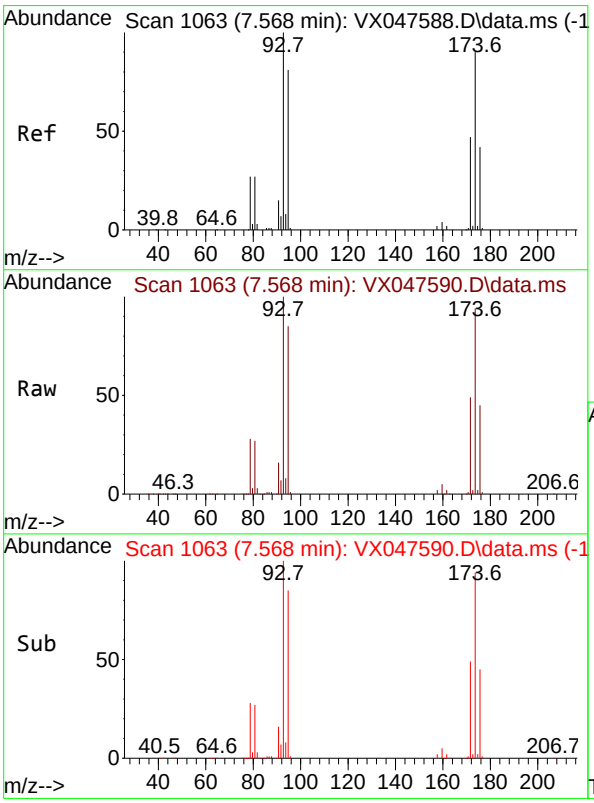
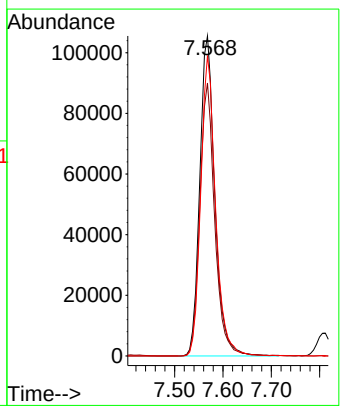
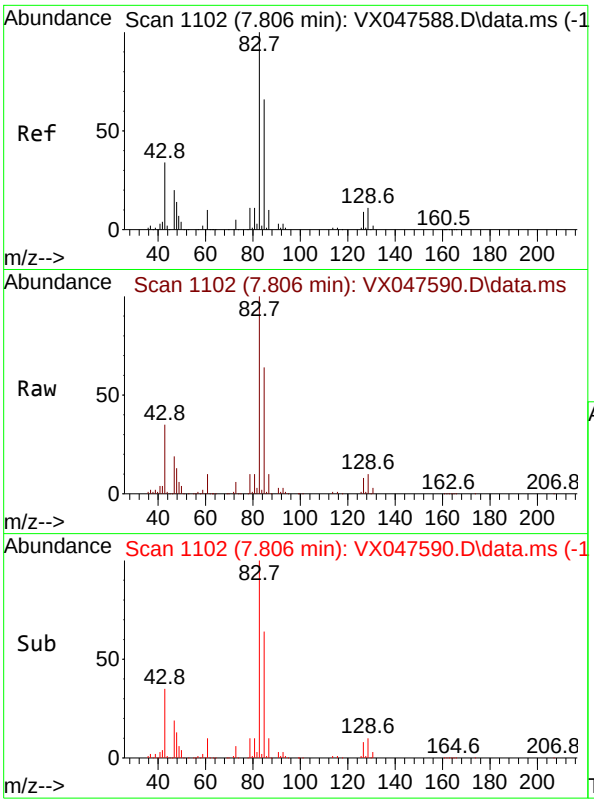


#46
Dibromomethane
Concen: 149.954 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 93 Resp: 228550

Ion	Ratio	Lower	Upper
93	100		
95	84.2	65.0	97.6
174	92.5	71.6	107.4

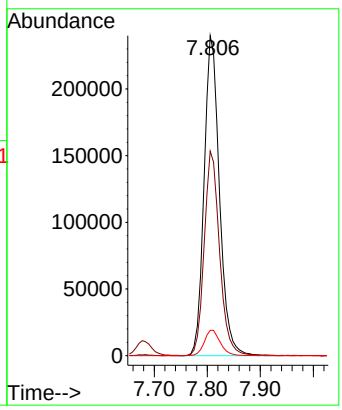




#47
Bromodichloromethane
Concen: 153.710 ug/l
RT: 7.806 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 48343

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7
127	7.9	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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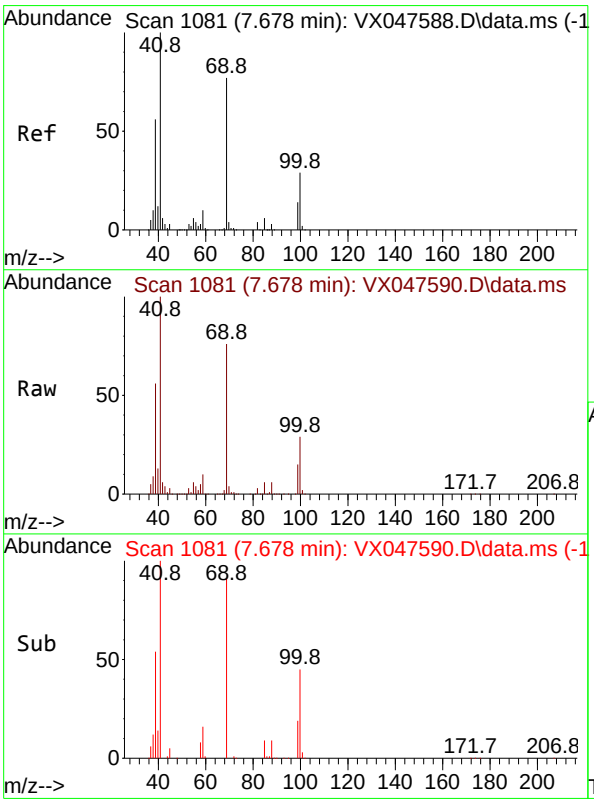
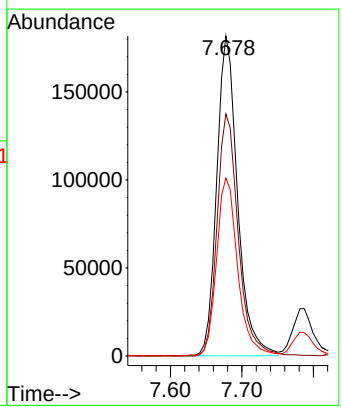
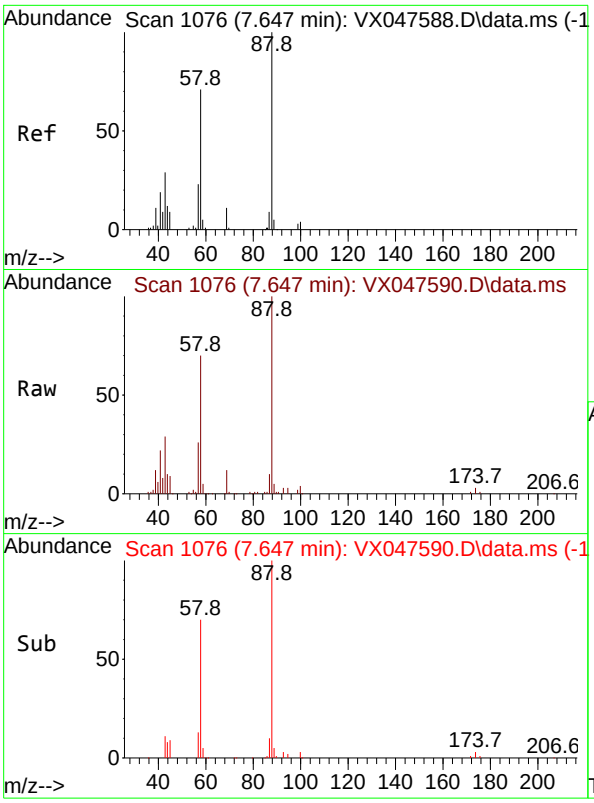


#48
Methyl methacrylate
Concen: 156.194 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 367931

Ion	Ratio	Lower	Upper
41	100		
69	77.2	61.4	92.2
39	56.5	45.8	68.6

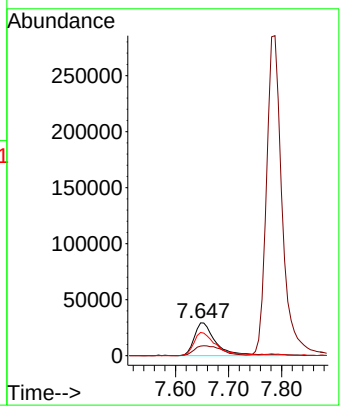




#49
1,4-Dioxane
Concen: 3475.565 ug/l
RT: 7.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 88 Resp: 8273

Ion	Ratio	Lower	Upper
88	100		
43	38.5	30.2	45.2
58	73.0	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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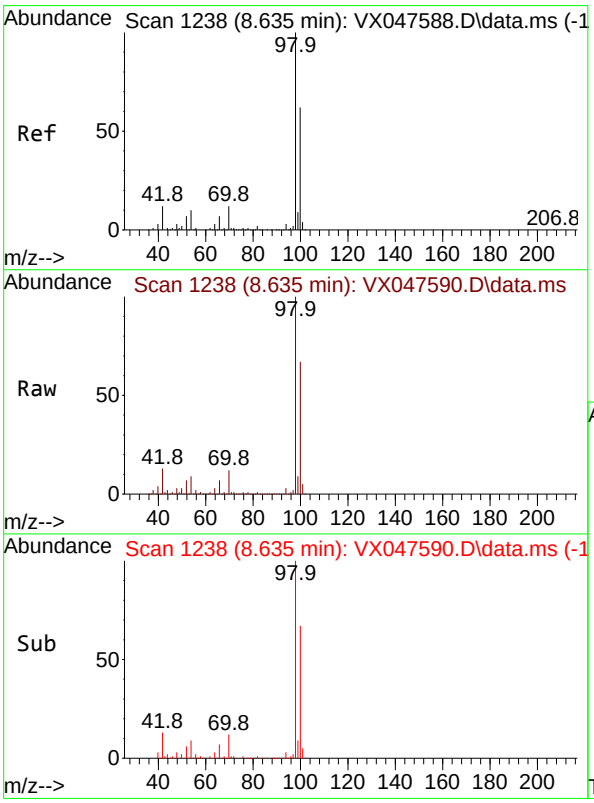
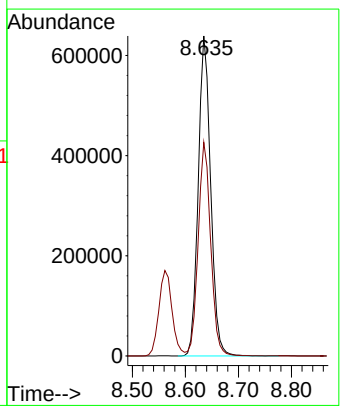
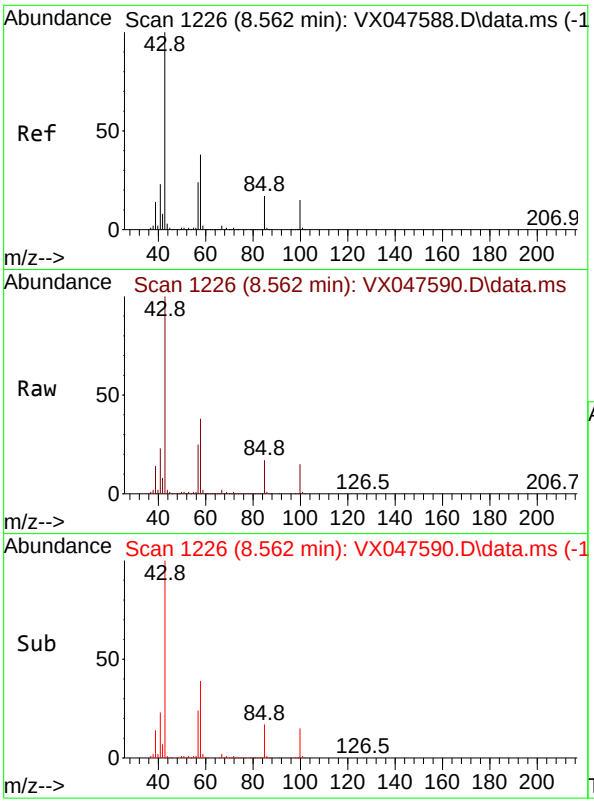


#50
Toluene-d8
Concen: 163.253 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 98 Resp: 1041079

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4

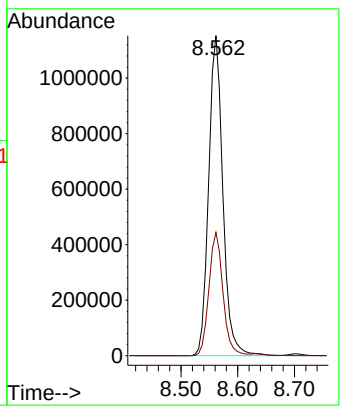




#51
4-Methyl-2-Pentanone
Concen: 765.849 ug/l
RT: 8.562 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 200806

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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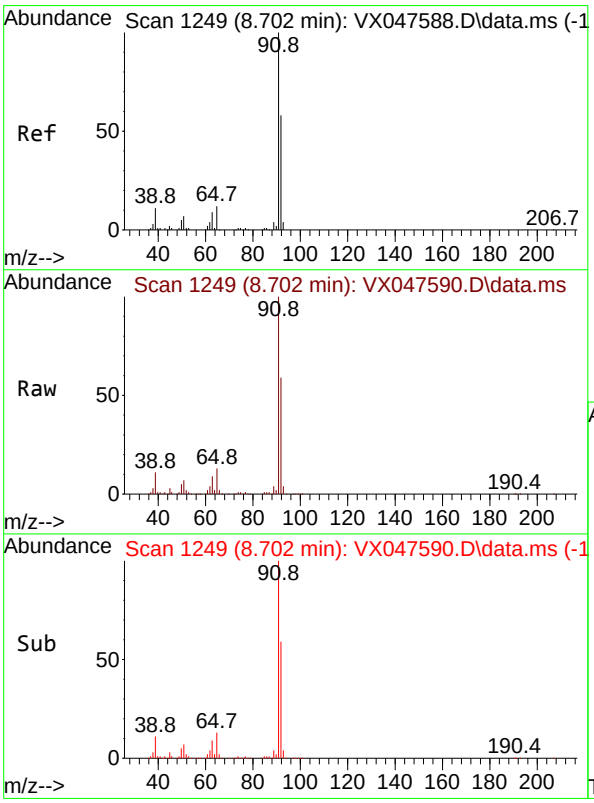
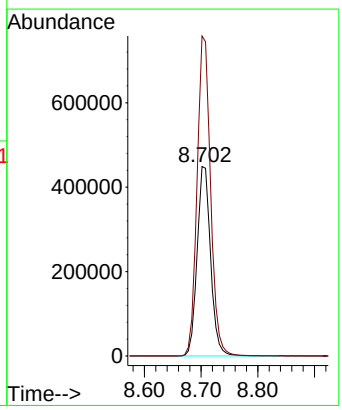
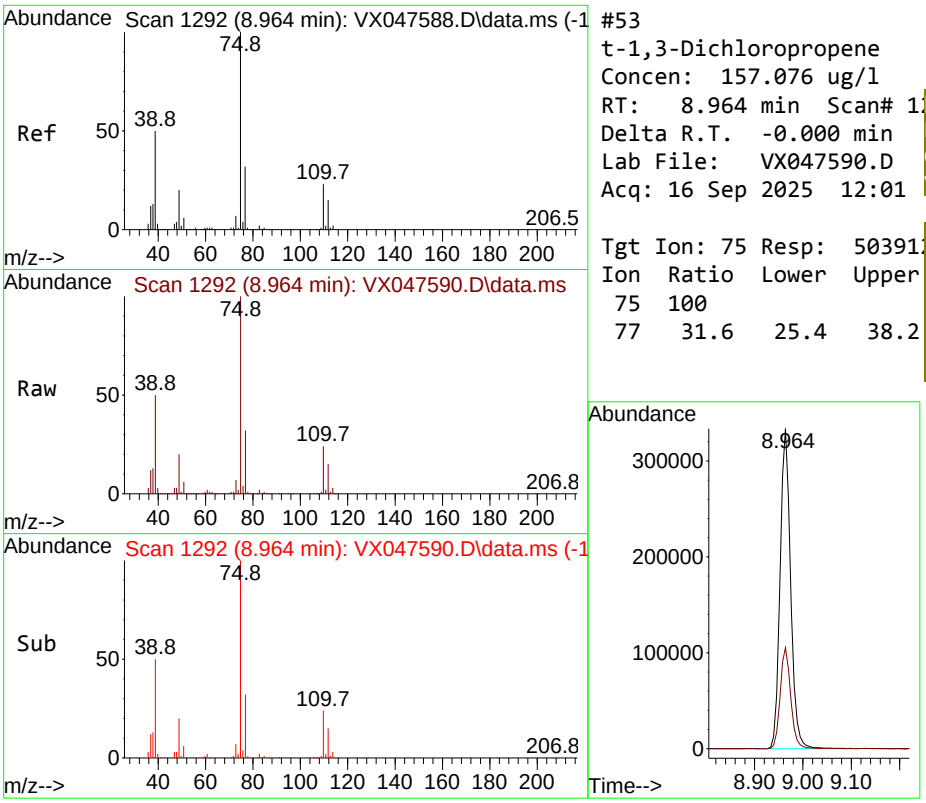


#52
Toluene
Concen: 146.712 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 92 Resp: 739332

Ion	Ratio	Lower	Upper
92	100		
91	169.5	137.1	205.7





#53
t-1,3-Dichloropropene
Concen: 157.076 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 50391

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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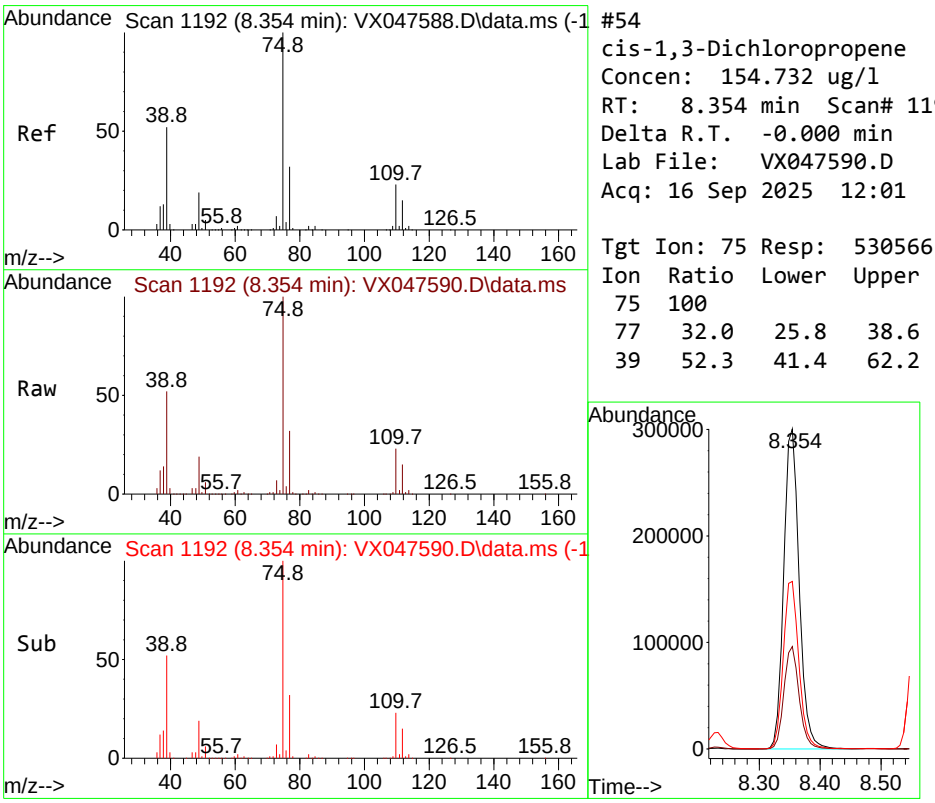
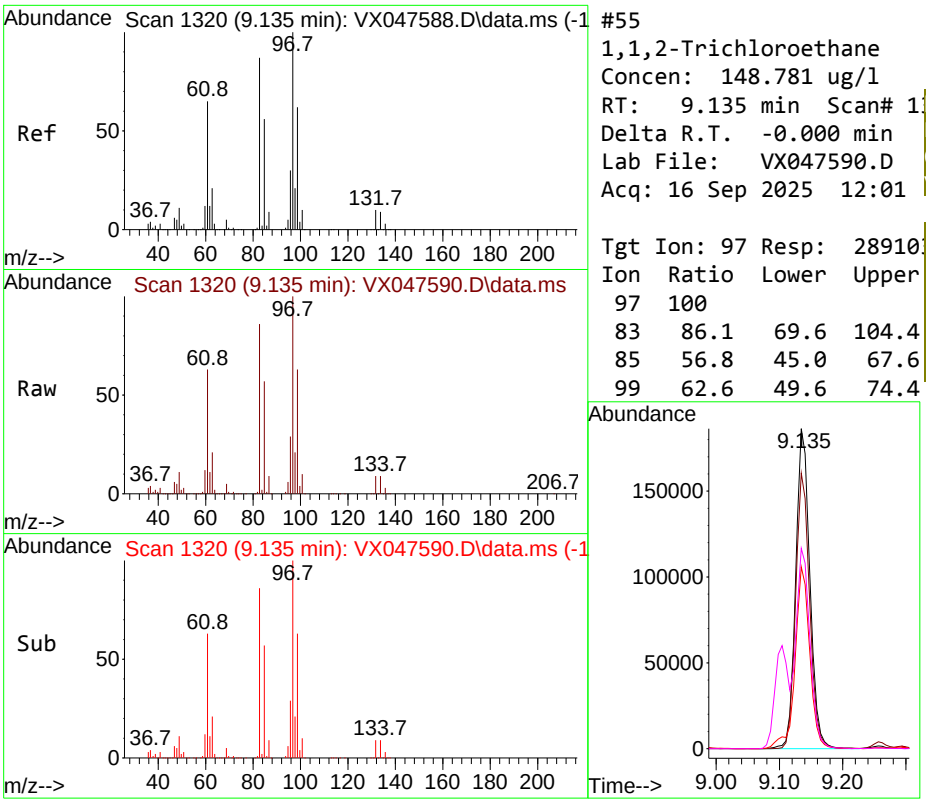


#54
cis-1,3-Dichloropropene
Concen: 154.732 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 530566

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.8	38.6
39	52.3	41.4	62.2



#55
1,1,2-Trichloroethane
Concen: 148.781 ug/l
RT: 9.135 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 97 Resp: 28910

Ion	Ratio	Lower	Upper
97	100		
83	86.1	69.6	104.4
85	56.8	45.0	67.6
99	62.6	49.6	74.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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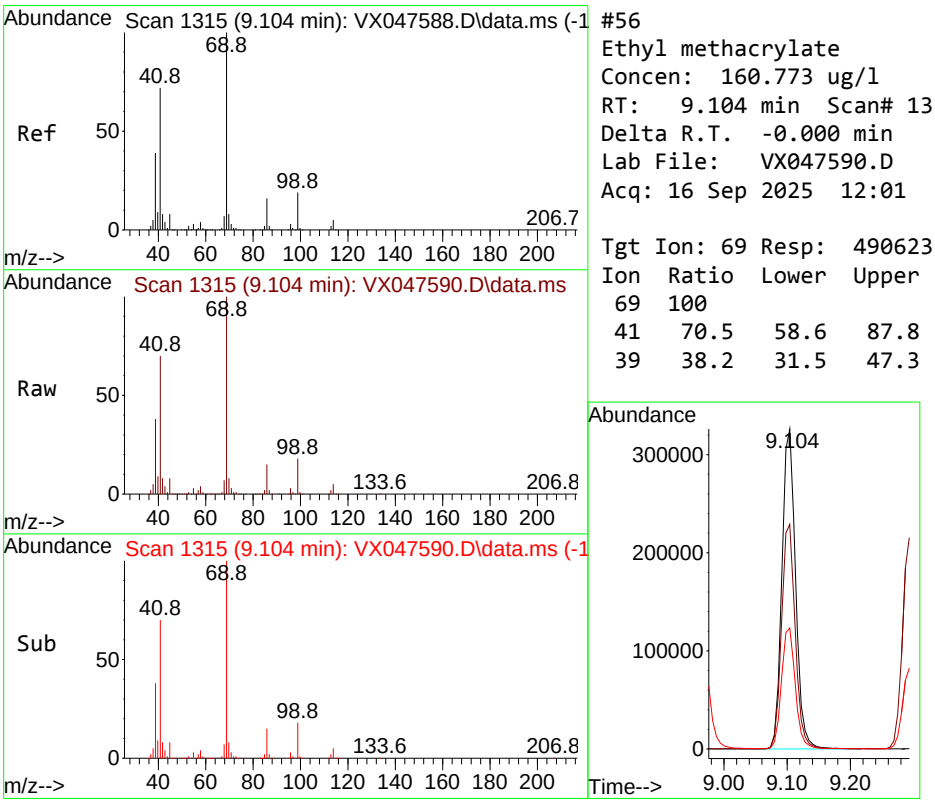
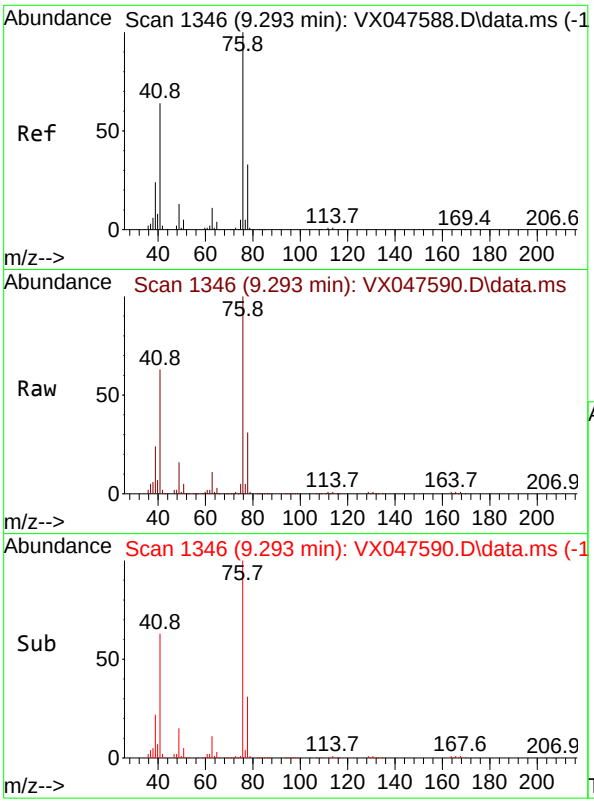


#56
Ethyl methacrylate
Concen: 160.773 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 69 Resp: 490623

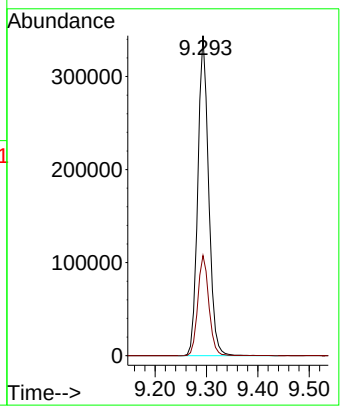
Ion	Ratio	Lower	Upper
69	100		
41	70.5	58.6	87.8
39	38.2	31.5	47.3



#57
1,3-Dichloropropane
Concen: 150.426 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 76 Resp: 50212

Ion	Ratio	Lower	Upper
76	100		
78	31.9	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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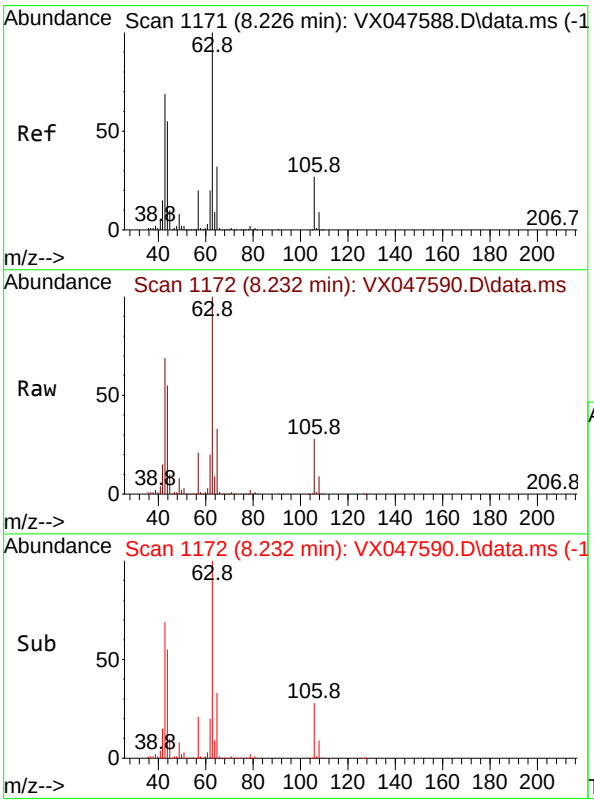
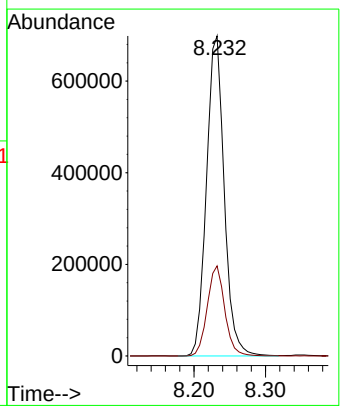
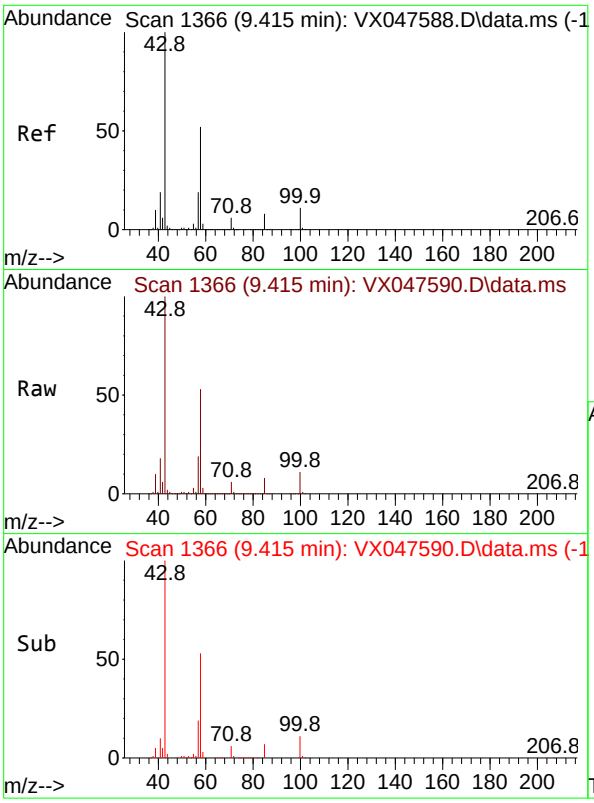


#58
2-Chloroethyl Vinyl ether
Concen: 749.661 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 63 Resp: 1202206

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.9	32.9

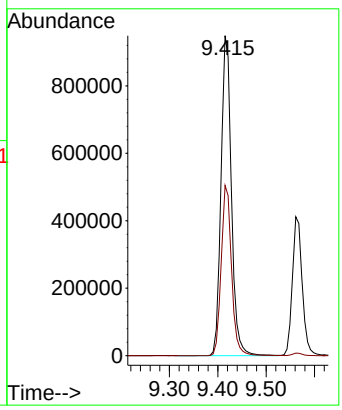




#59
2-Hexanone
Concen: 750.035 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 141241

Ion	Ratio	Lower	Upper
43	100		
58	52.9	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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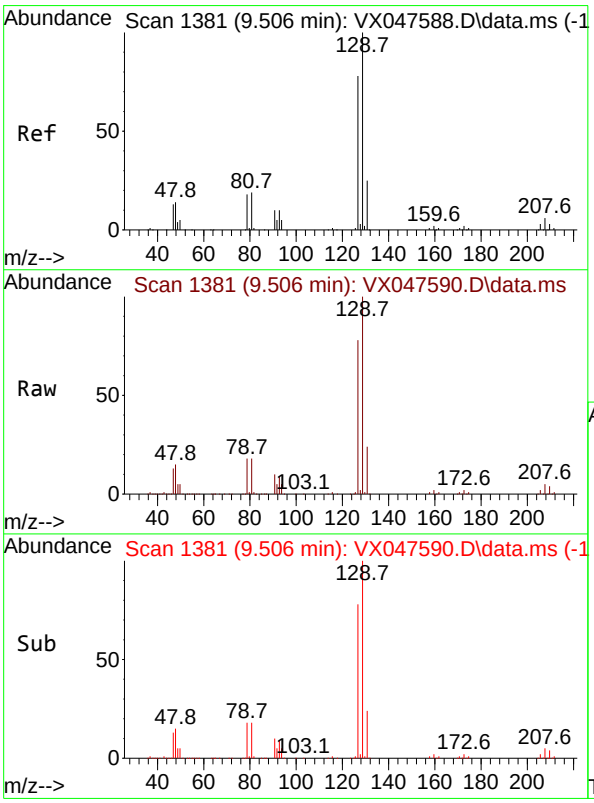
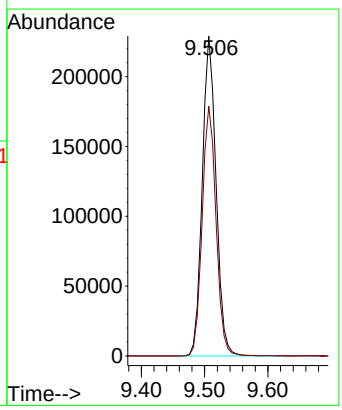
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

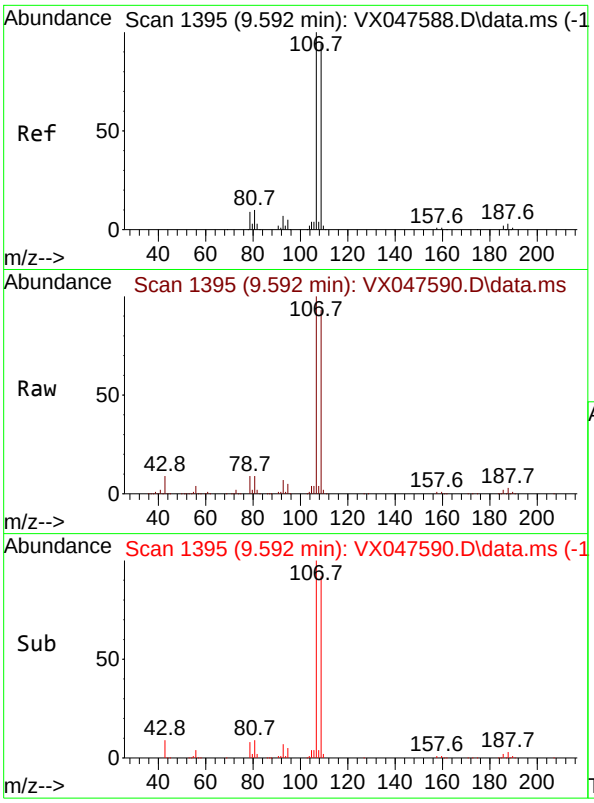


#60
Dibromochloromethane
Concen: 155.318 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:129 Resp: 347748

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.4	115.2

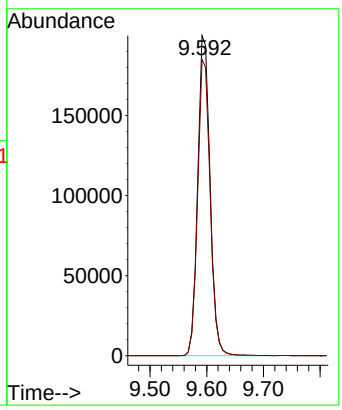




#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:107 Resp: 30271

Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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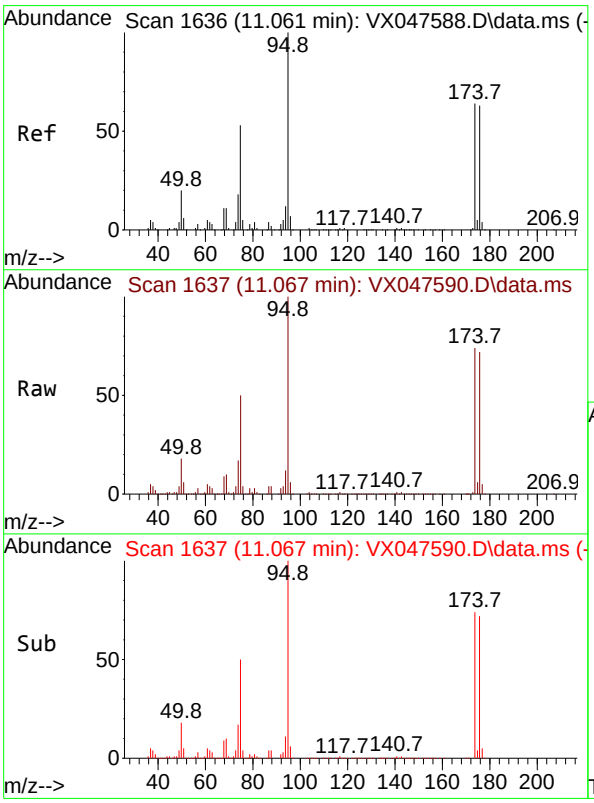
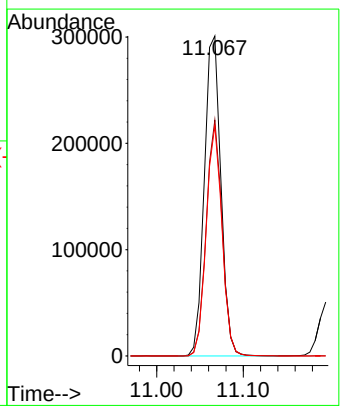
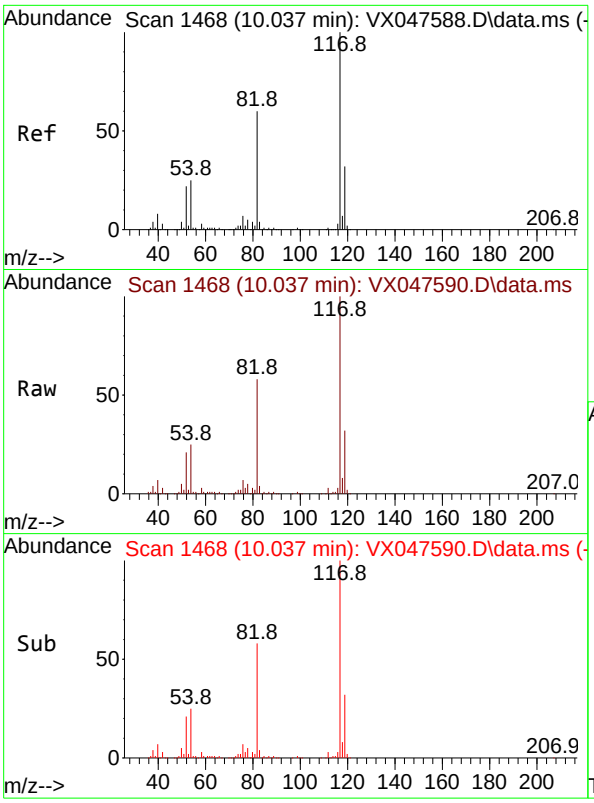


#62
4-Bromofluorobenzene
Concen: 165.020 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 95 Resp: 399386

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.6
176	68.5	0.0	138.4

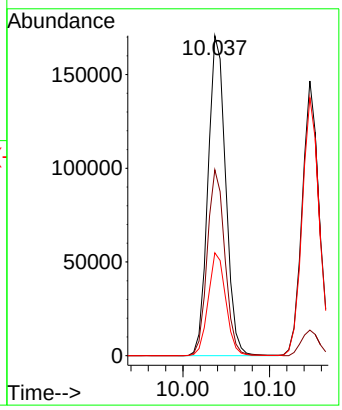




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 241818

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	32.2	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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Reviewed By :John Carlone 09/17/2025
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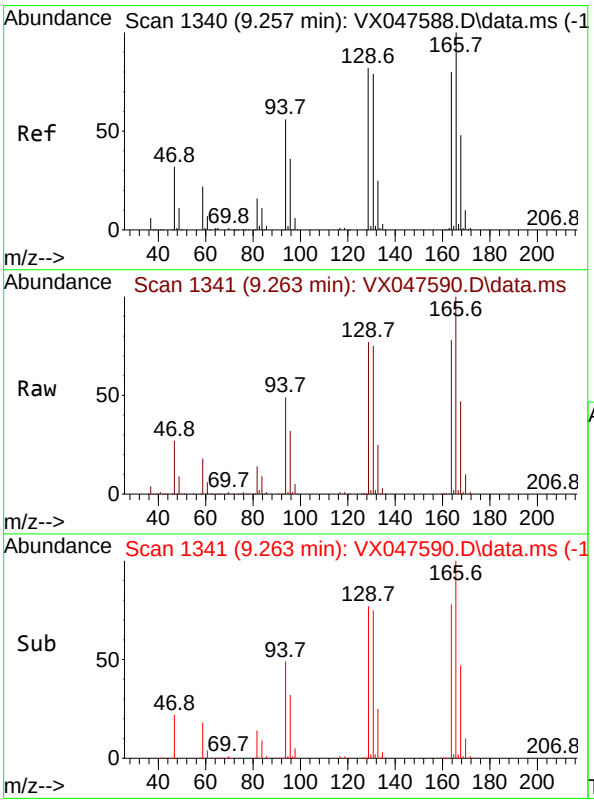
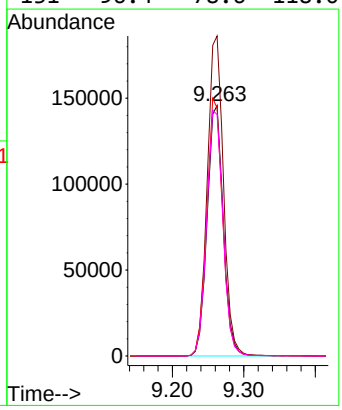
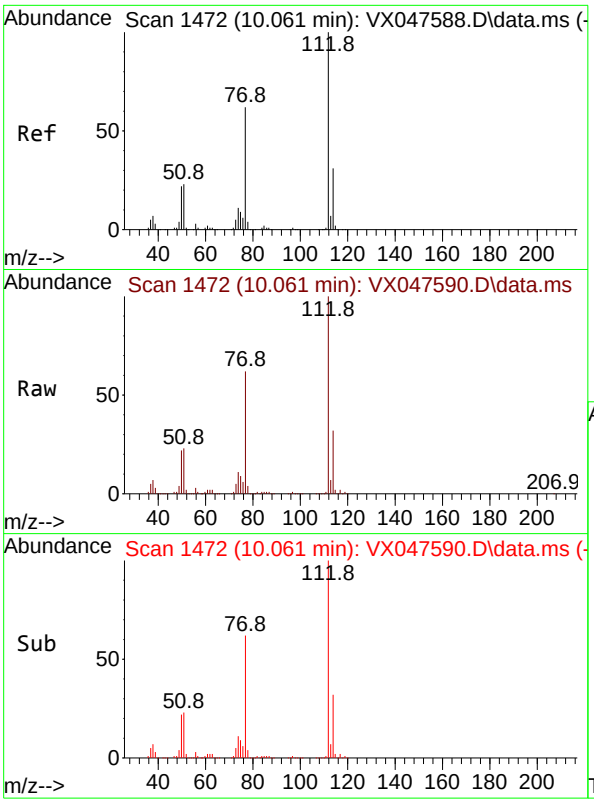


#64
Tetrachloroethene
Concen: 144.590 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:164 Resp: 227931

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.2	150.2
129	99.0	81.8	122.6
131	96.4	78.6	118.0

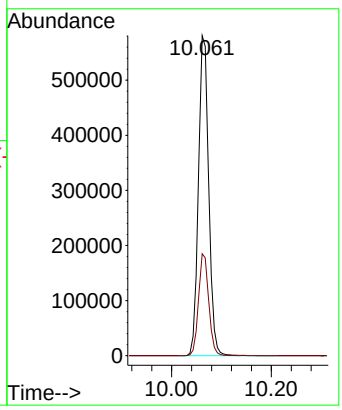




#65
Chlorobenzene
Concen: 150.763 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:112 Resp: 82823

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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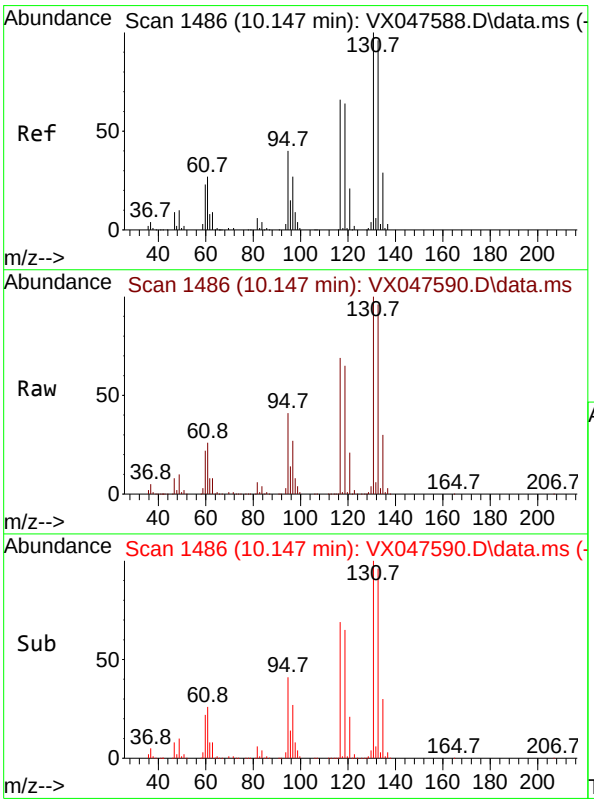
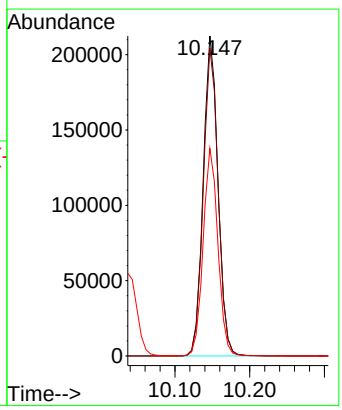
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

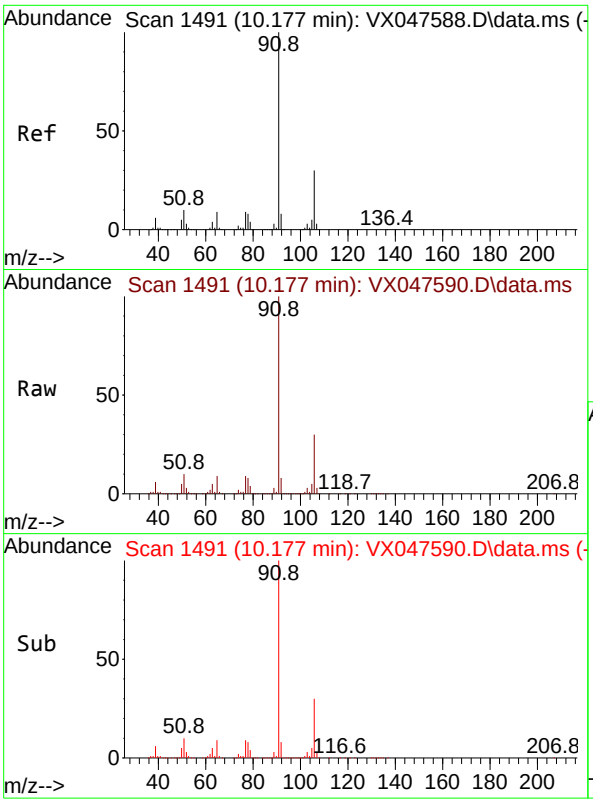


#66
1,1,1,2-Tetrachloroethane
Concen: 153.733 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:131 Resp: 291433

Ion	Ratio	Lower	Upper
131	100		
133	96.7	47.3	142.0
119	64.8	32.0	96.0

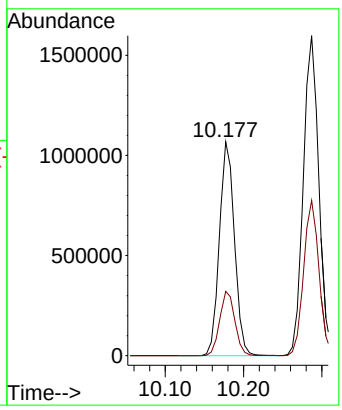




#67
Ethyl Benzene
Concen: 151.026 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 143155

Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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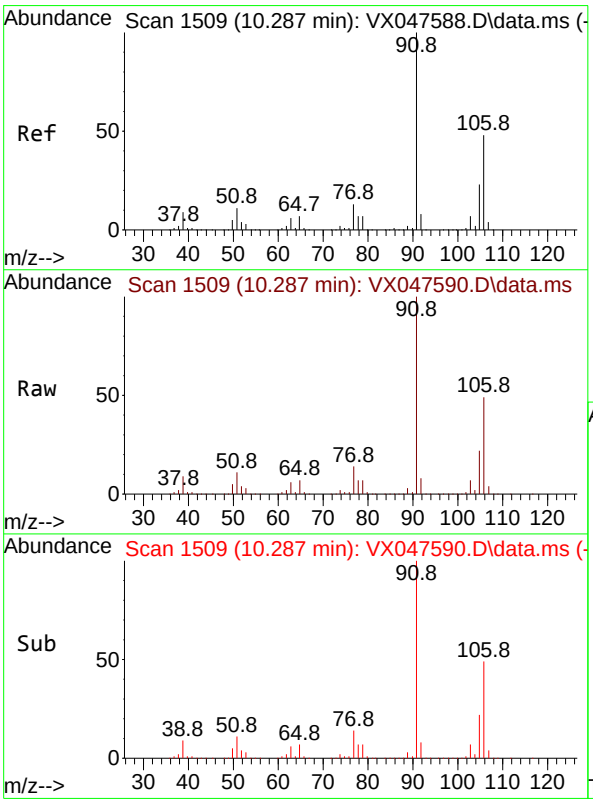
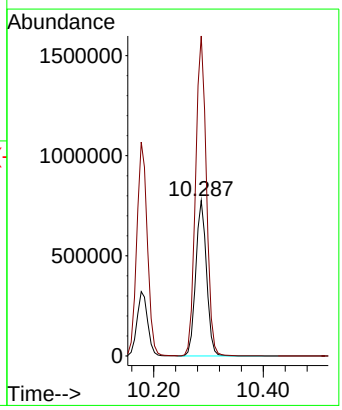
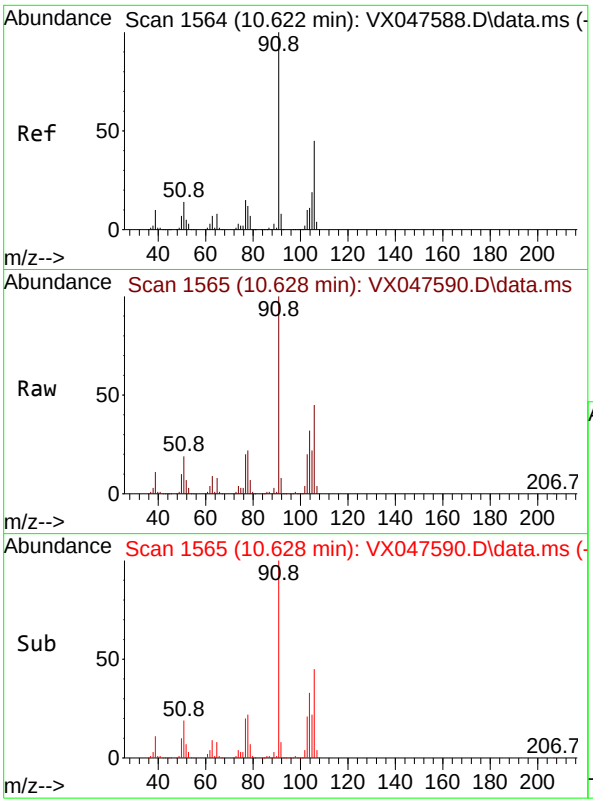


#68
m/p-Xylenes
Concen: 300.381 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 1059776

Ion	Ratio	Lower	Upper
106	100		
91	208.0	167.8	251.8

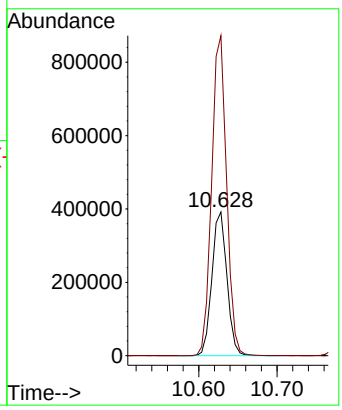




#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:106 Resp: 52184

Ion	Ratio	Lower	Upper
106	100		
91	220.7	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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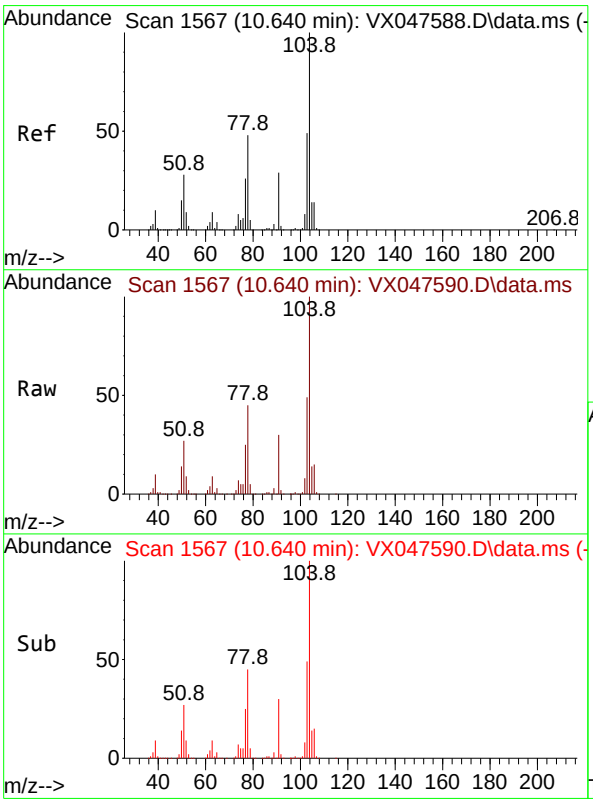
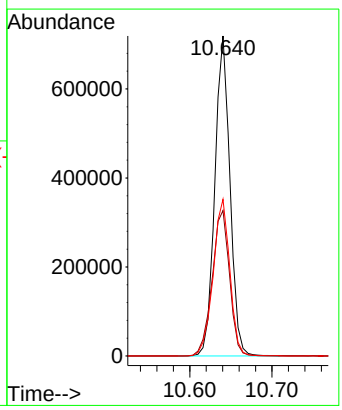
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

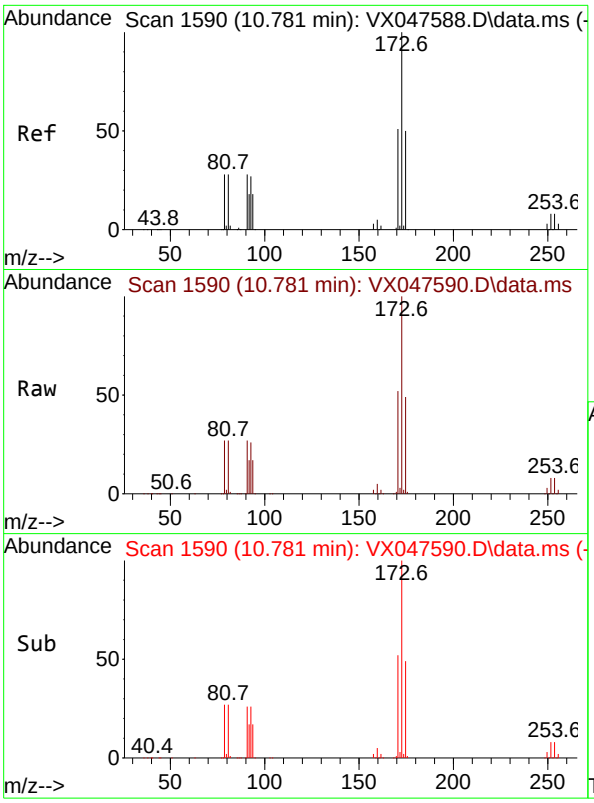


#70
Styrene
Concen: 153.449 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:104 Resp: 917532

Ion	Ratio	Lower	Upper
104	100		
78	52.4	43.1	64.7
103	54.0	43.1	64.7

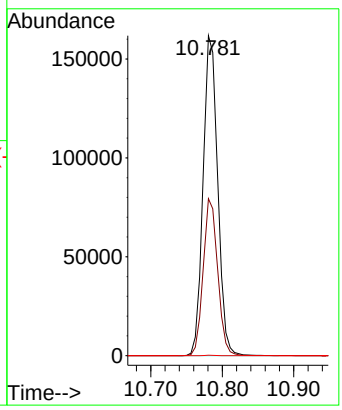




#71
Bromoform
Concen: 162.262 ug/l
RT: 10.781 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:173 Resp: 22968

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.9	74.6
254	0.1	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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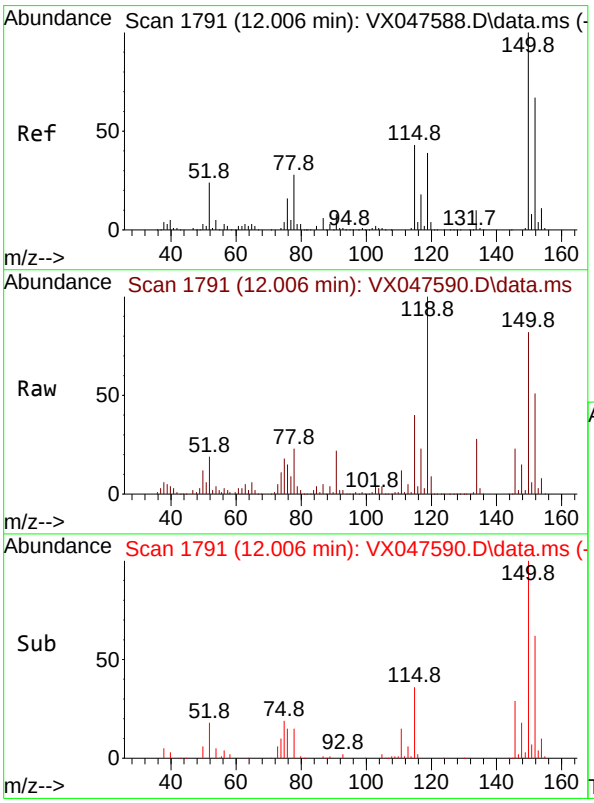
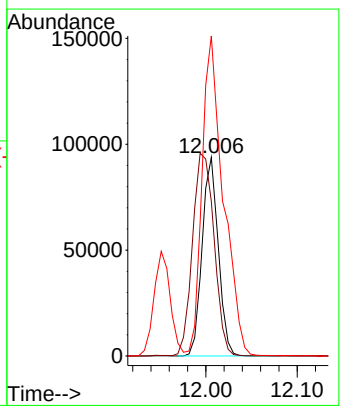
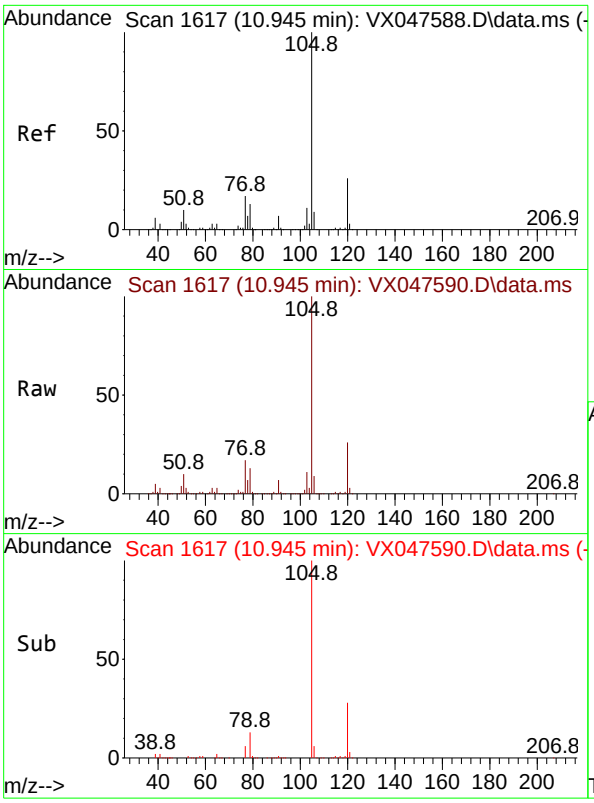


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:152 Resp: 114743

Ion	Ratio	Lower	Upper
152	100		
115	136.9	44.9	134.5#
150	212.9	0.0	352.0

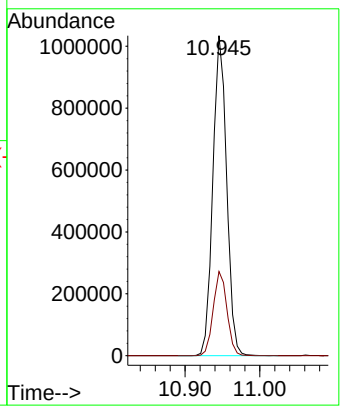




#73
Isopropylbenzene
Concen: 151.477 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 132140

Ion	Ratio	Lower	Upper
105	100		
120	26.2	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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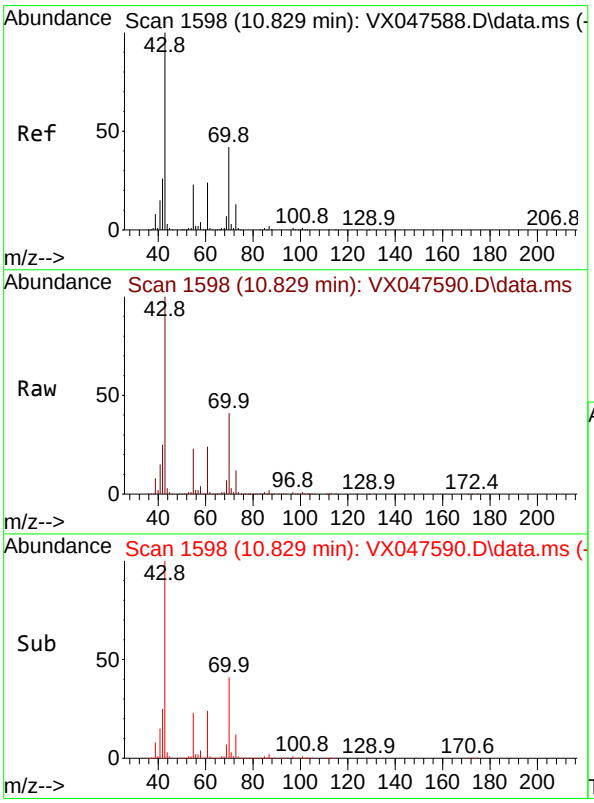
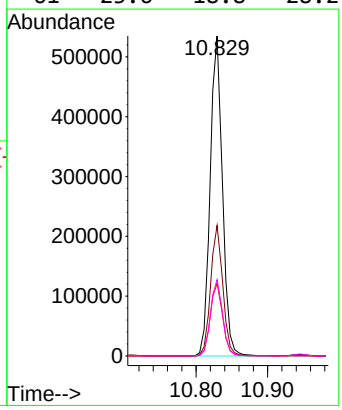
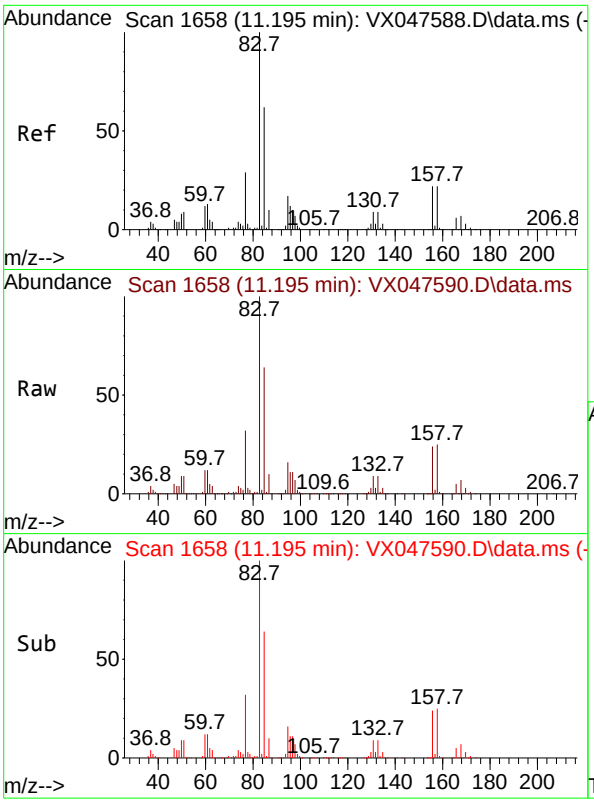


#74
N-amyl acetate
Concen: 160.099 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 636879

Ion	Ratio	Lower	Upper
43	100		
70	40.4	32.0	48.0
55	22.9	18.9	28.3
61	23.6	18.8	28.2

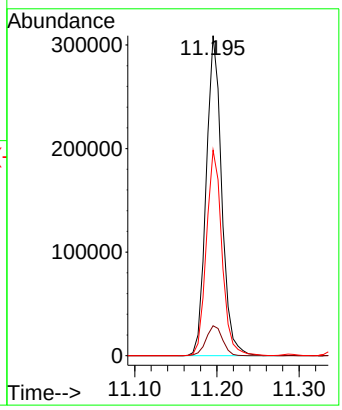




#75
1,1,2,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 83 Resp: 40390

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.6	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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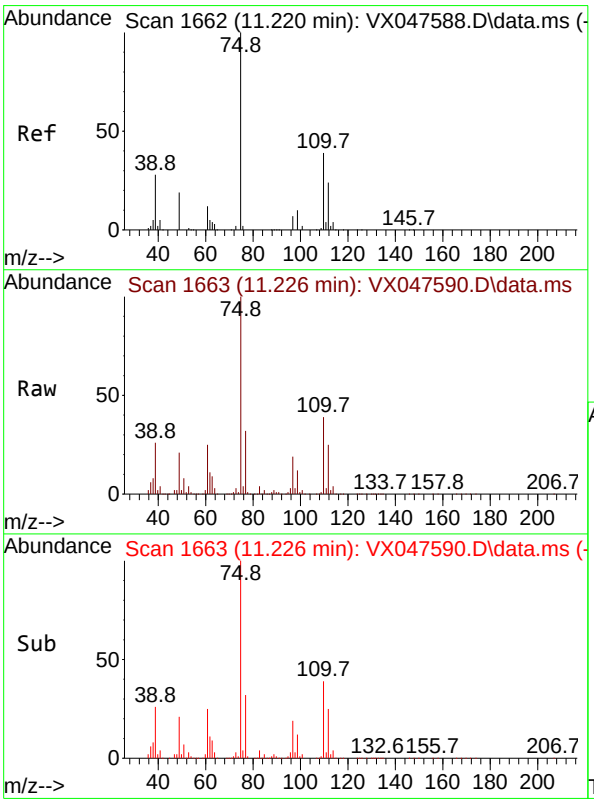
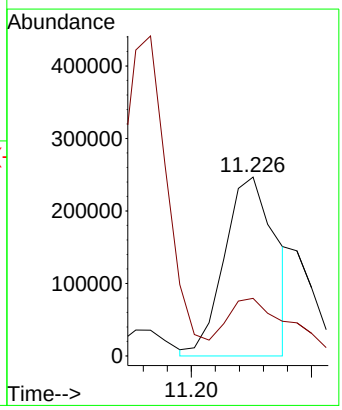
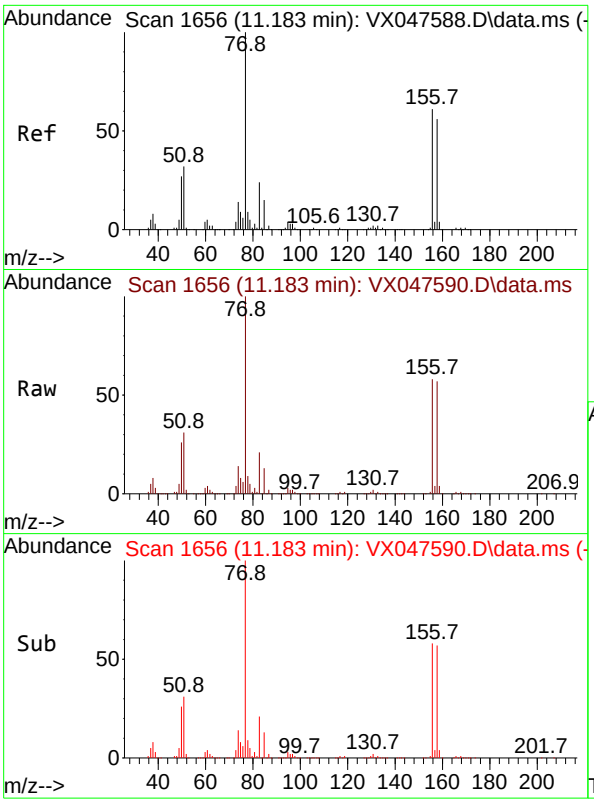


#76
1,2,3-Trichloropropane
Concen: 153.692 ug/l m
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 366171

Ion	Ratio	Lower	Upper
75	100		
77	39.7	18.8	56.4

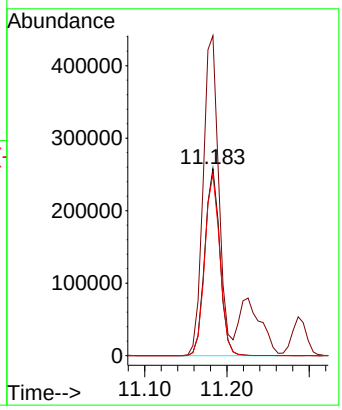




#77
Bromobenzene
Concen: 152.818 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:156 Resp: 32833

Ion	Ratio	Lower	Upper
156	100		
77	178.2	89.7	269.1
158	97.5	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :John Carlone 09/17/2025
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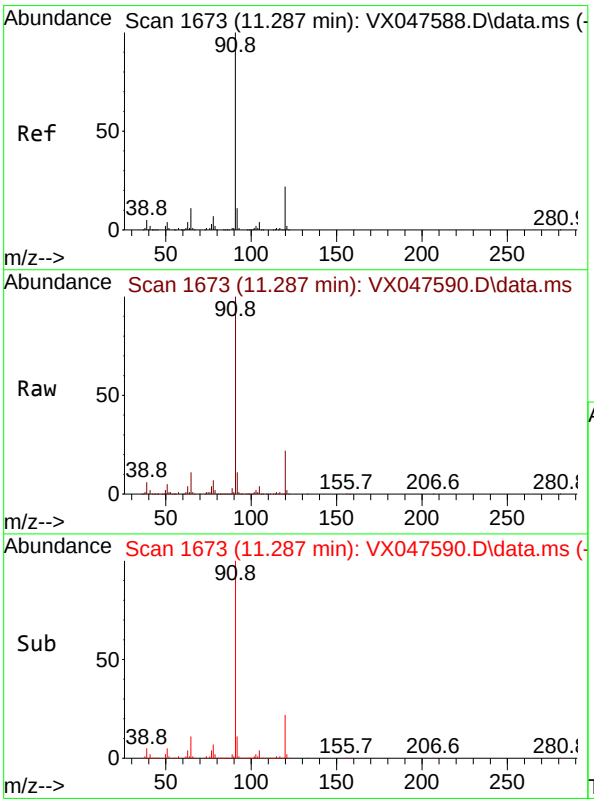
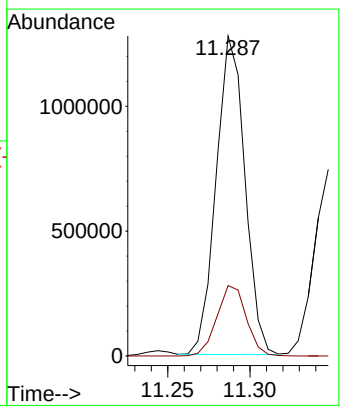
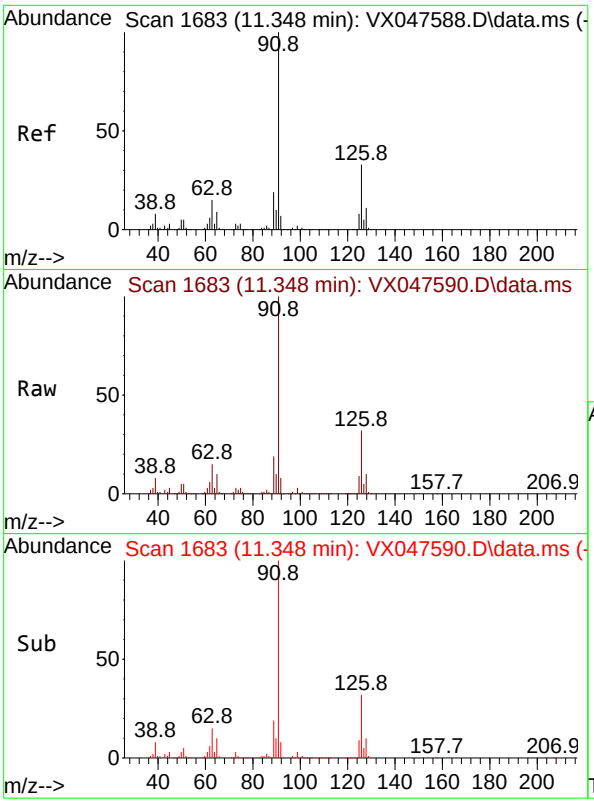


#78
n-propylbenzene
Concen: 150.337 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1550316

Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.1	33.1

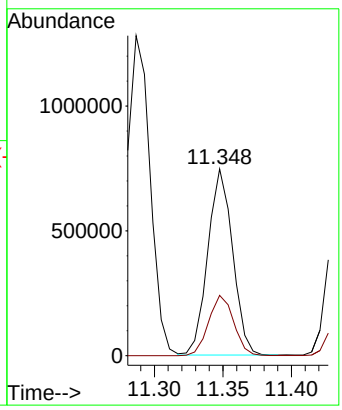




#79
2-Chlorotoluene
Concen: 148.781 ug/l
RT: 11.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 93970

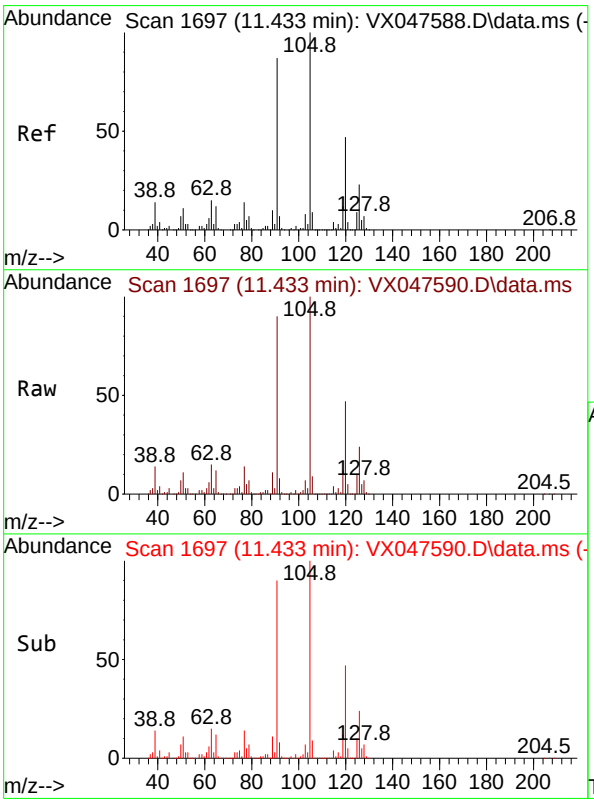
Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

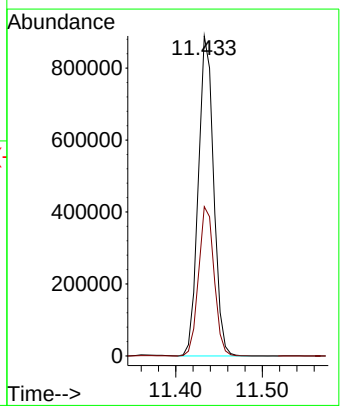
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

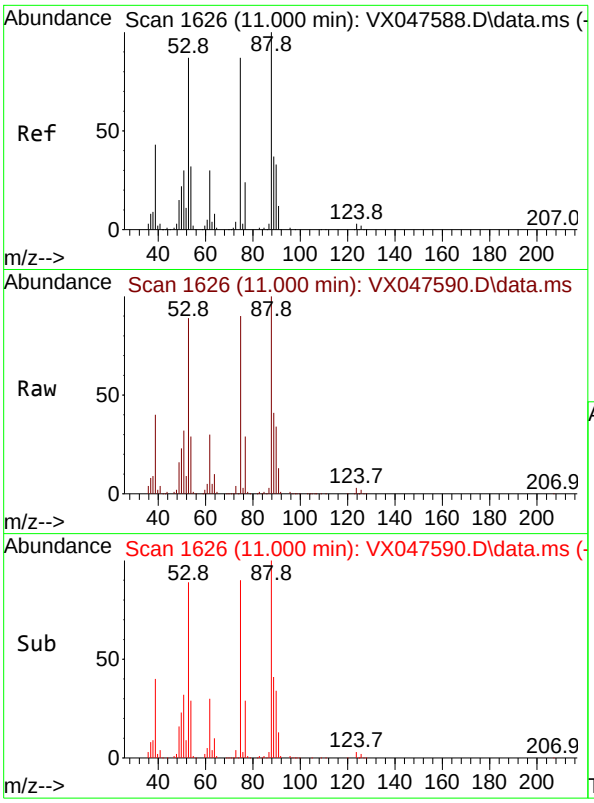


#80
1,3,5-Trimethylbenzene
Concen: 152.306 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1091593

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 160.176 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 14592

Ion	Ratio	Lower	Upper
75	100		
53	100.8	83.4	125.2
89	46.3	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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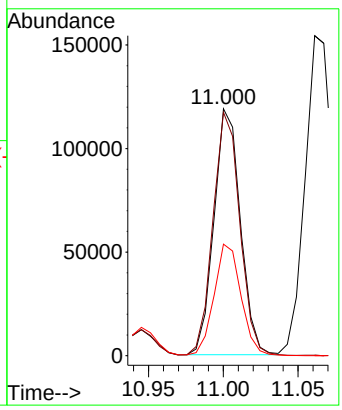
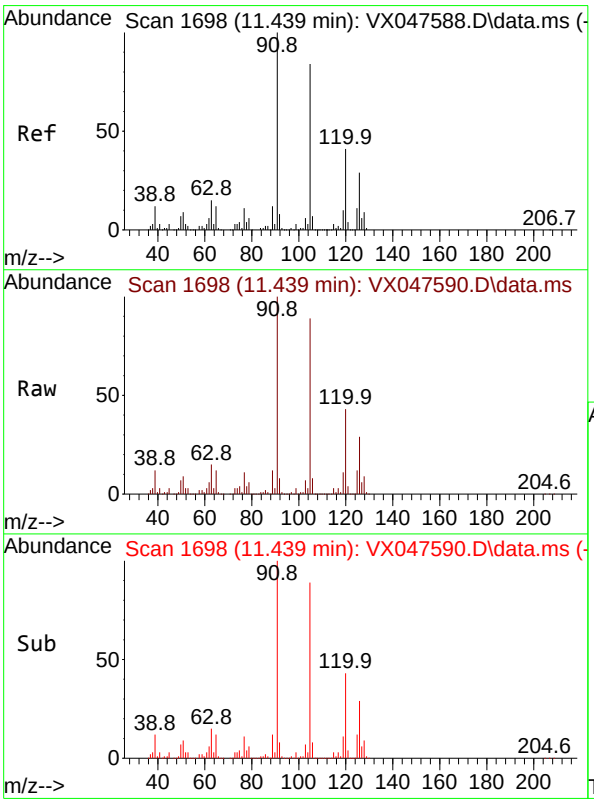
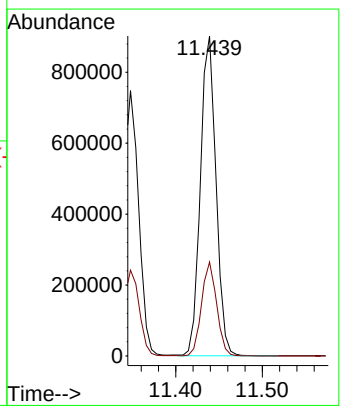


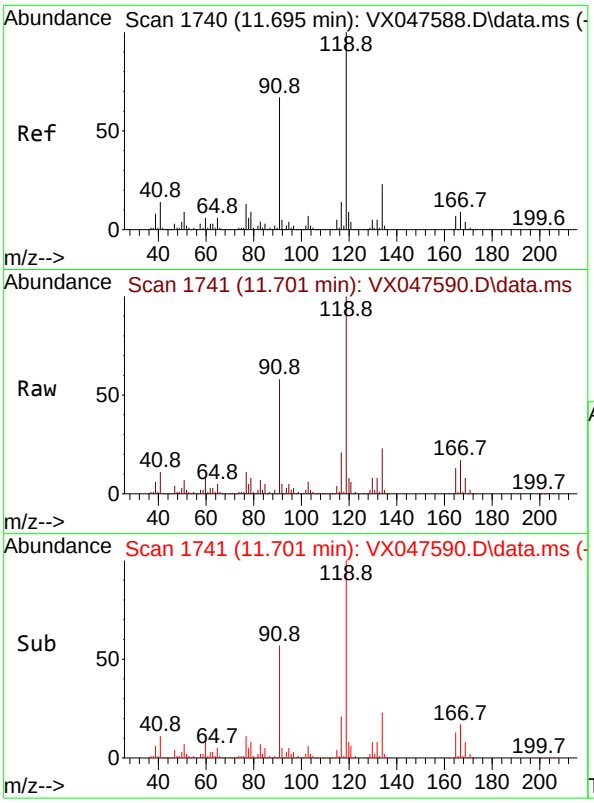


#82
4-Chlorotoluene
Concen: 151.112 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1127233

Ion	Ratio	Lower	Upper
91	100		
126	28.5	14.2	42.6

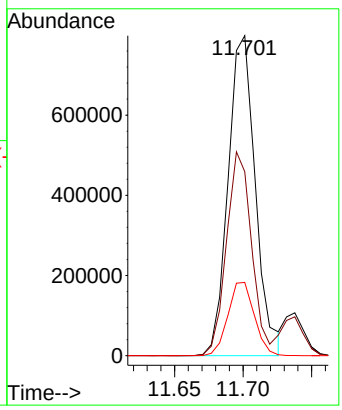




#83
tert-Butylbenzene
Concen: 150.819 ug/l
RT: 11.701 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 110653

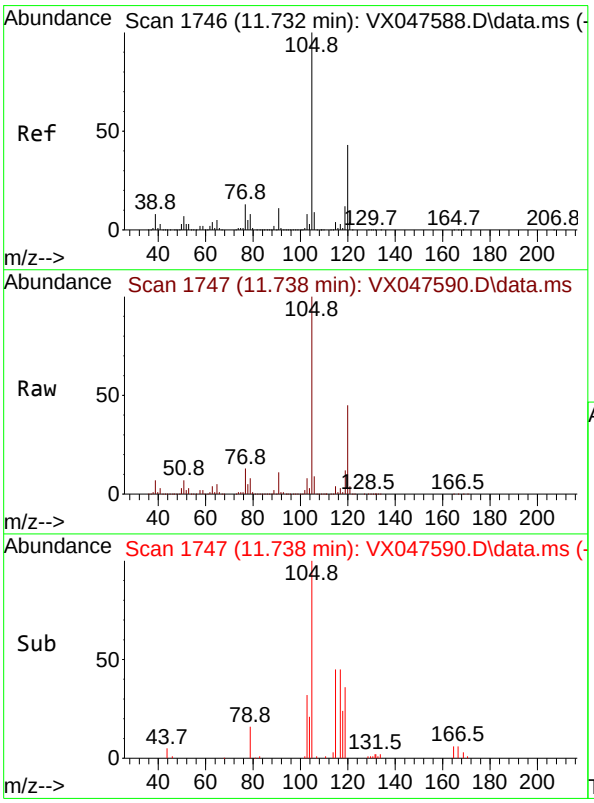
Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

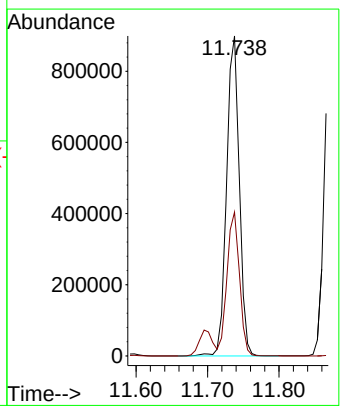
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

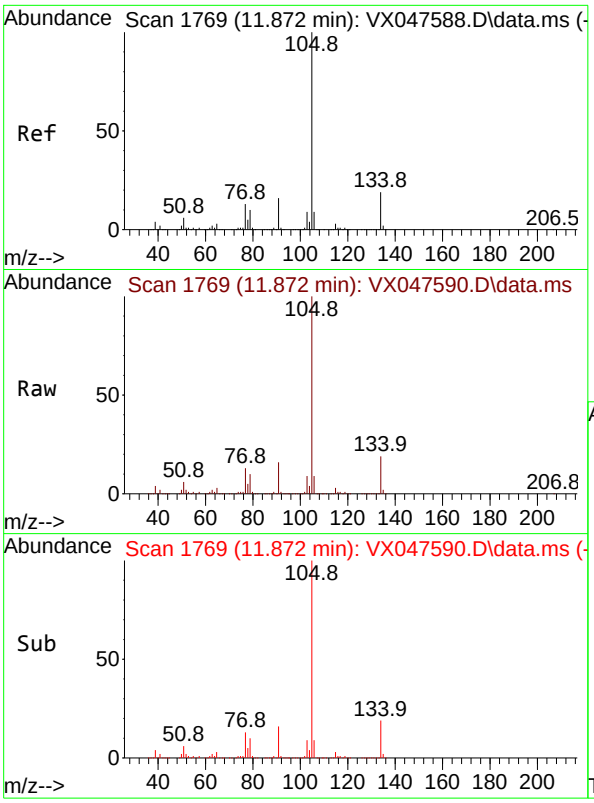


#84
1,2,4-Trimethylbenzene
Concen: 152.336 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 1106914

Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.1	66.1

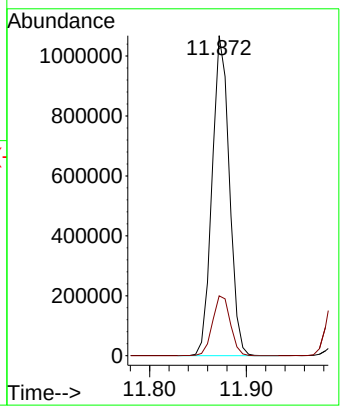




#85
sec-Butylbenzene
Concen: 151.448 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:105 Resp: 131981

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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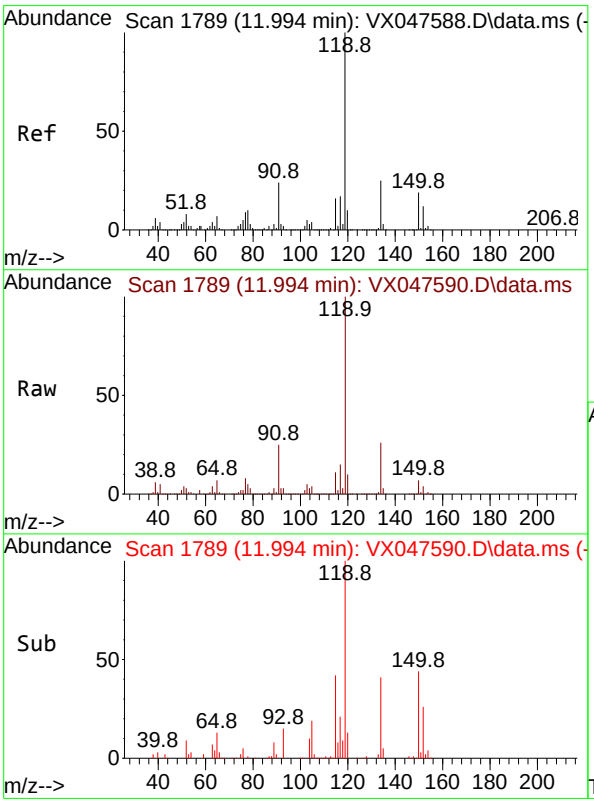
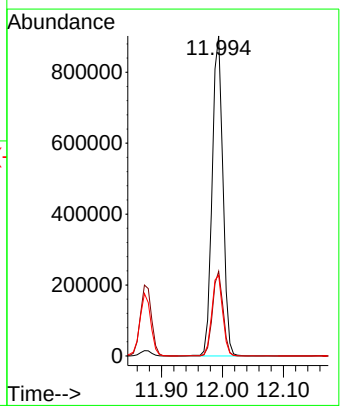
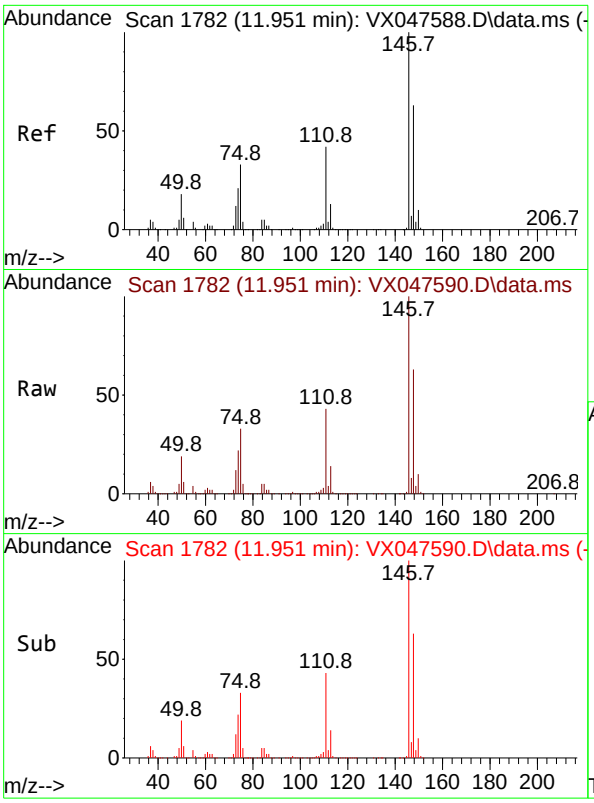


#86
p-Isopropyltoluene
Concen: 149.530 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:119 Resp: 1103210

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.3	12.6	37.6

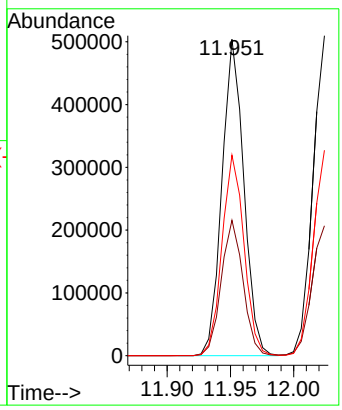




#87
1,3-Dichlorobenzene
Concen: 151.633 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 60512

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.5	64.5
148	63.8	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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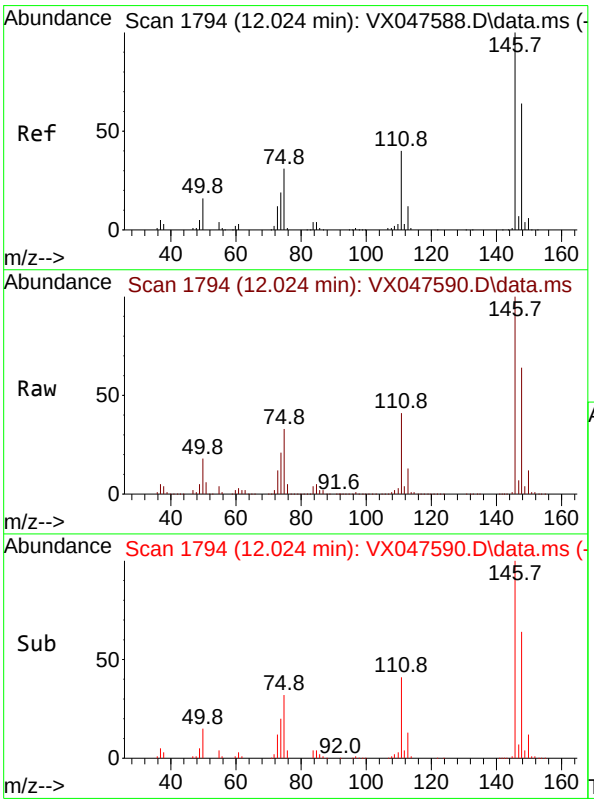
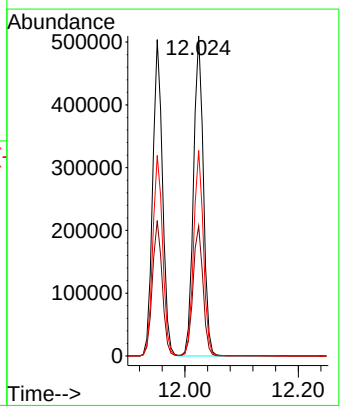
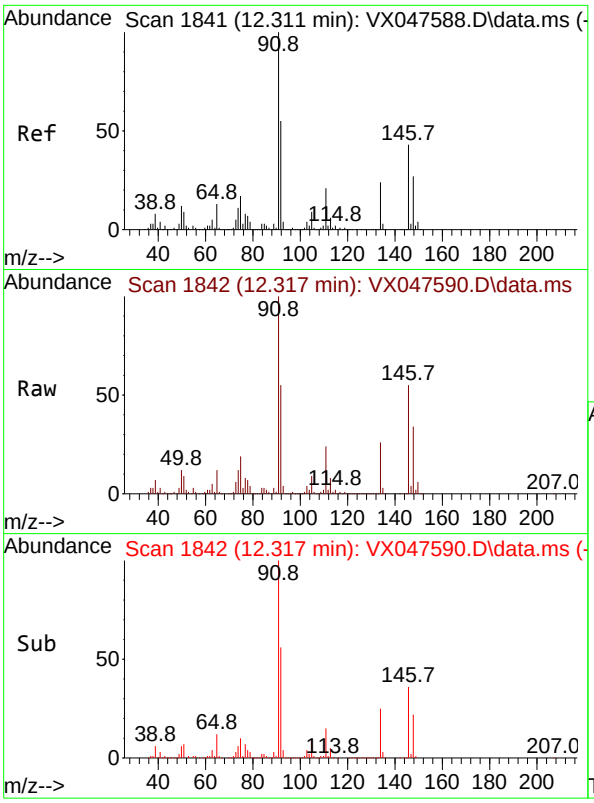


#88
1,4-Dichlorobenzene
Concen: 149.814 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 613617

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	63.2	31.7	95.1

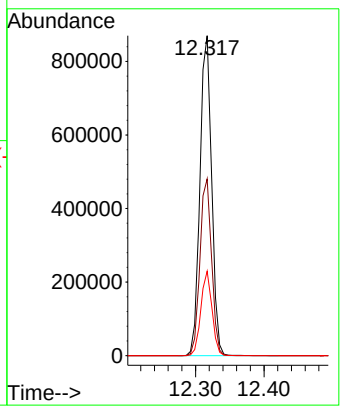




#89
n-Butylbenzene
Concen: 151.222 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 103235

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.2	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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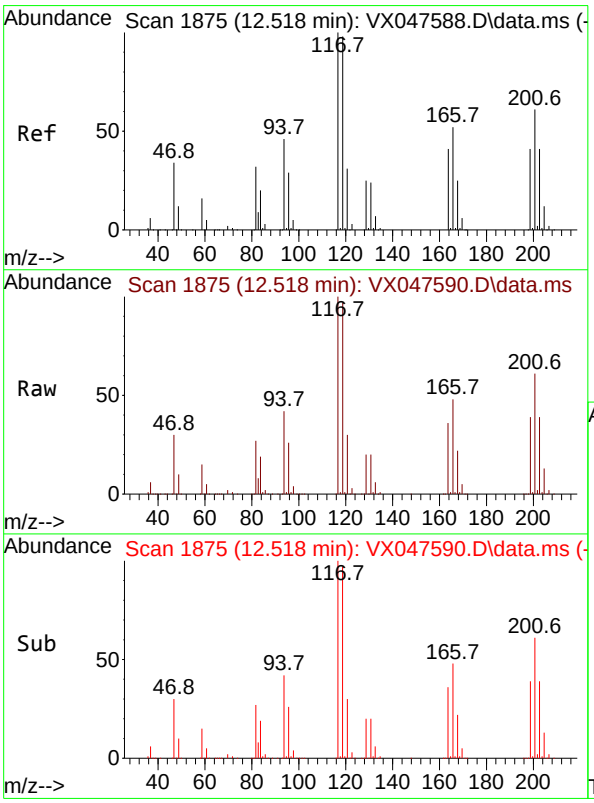
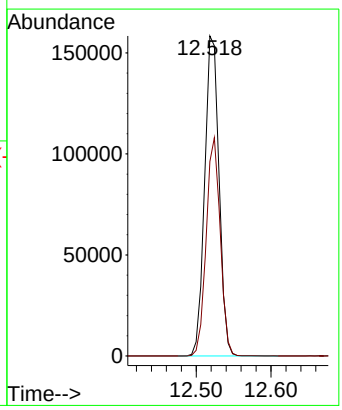
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

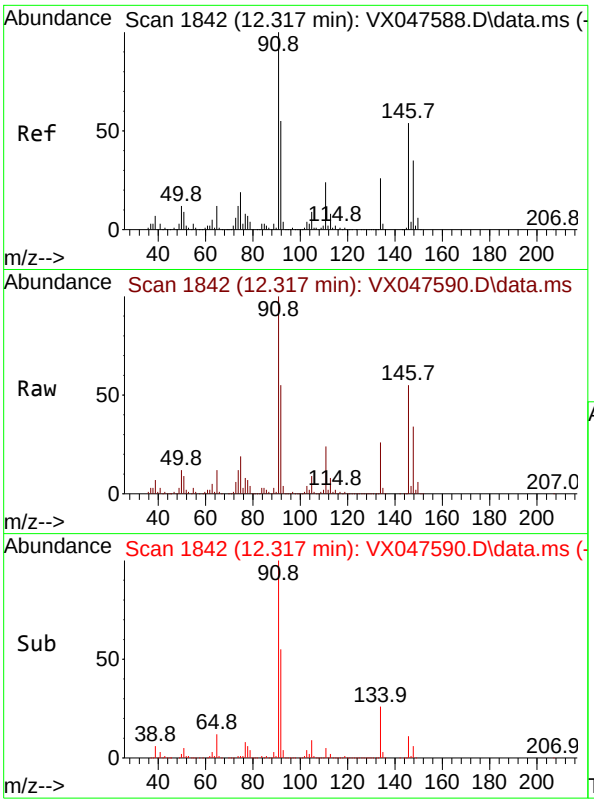


#90
Hexachloroethane
Concen: 163.258 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:117 Resp: 211472

Ion	Ratio	Lower	Upper
117	100		
201	66.6	34.2	102.5

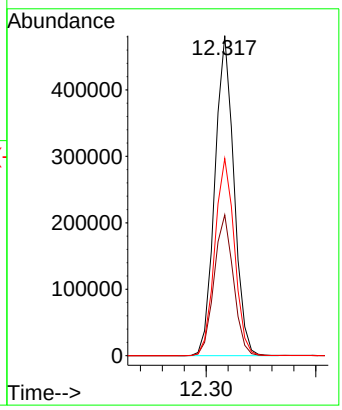




#91
1,2-Dichlorobenzene
Concen: 153.227 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:146 Resp: 58256

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.2	66.6
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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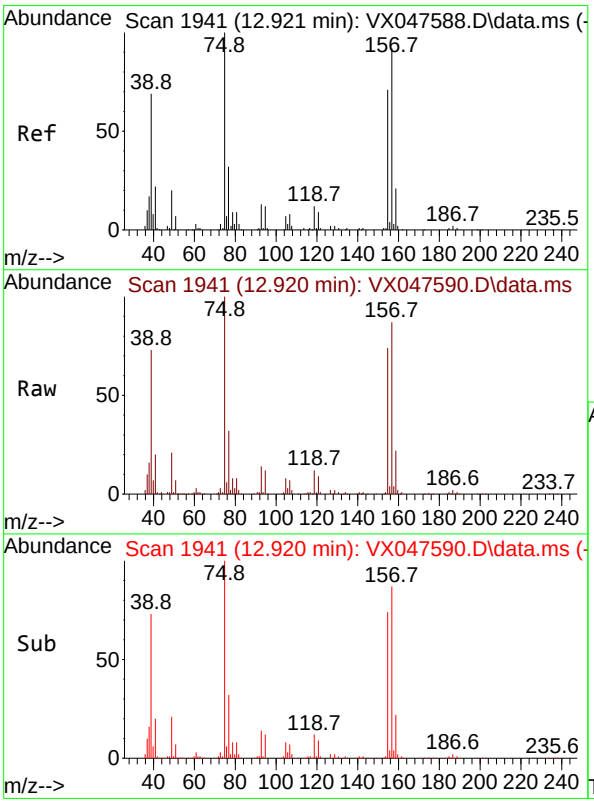
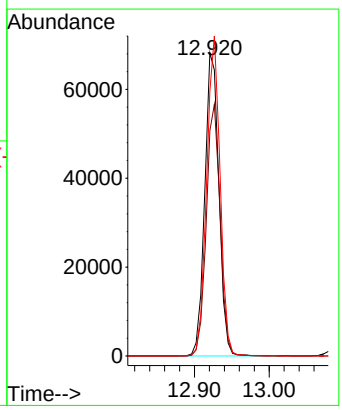
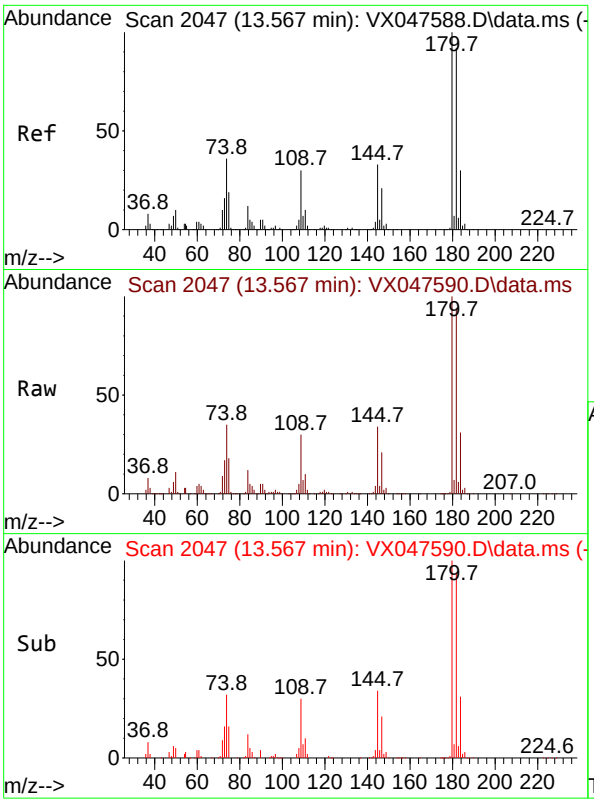


#92
1,2-Dibromo-3-Chloropropane
Concen: 167.332 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 89415

Ion	Ratio	Lower	Upper
75	100		
155	81.3	37.7	113.1
157	100.6	49.8	149.4

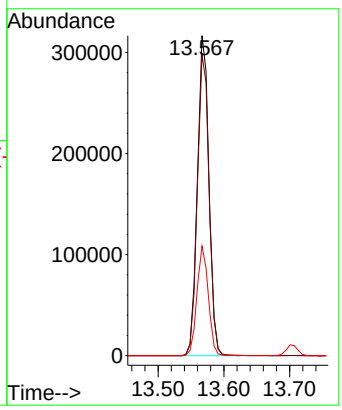




#93
1,2,4-Trichlorobenzene
Concen: 156.884 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 38765

Ion	Ratio	Lower	Upper
180	100		
182	95.3	46.6	139.8
145	33.5	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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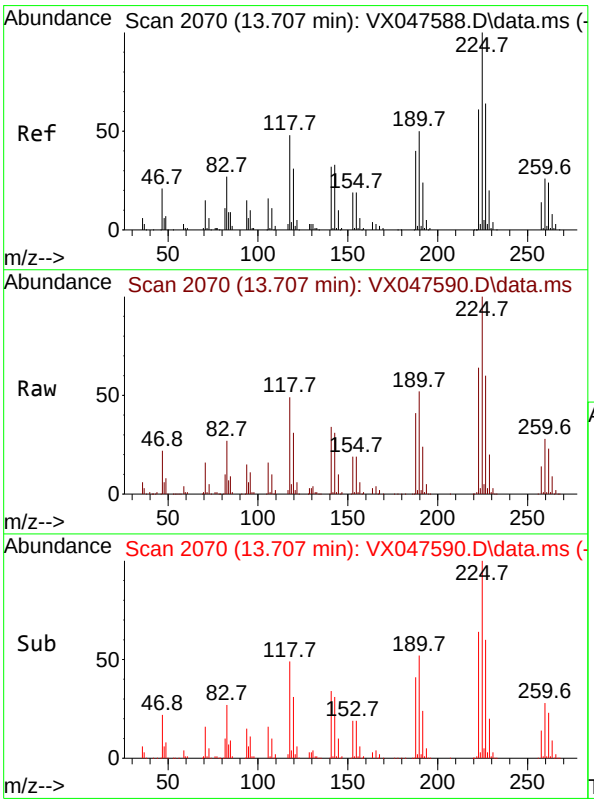
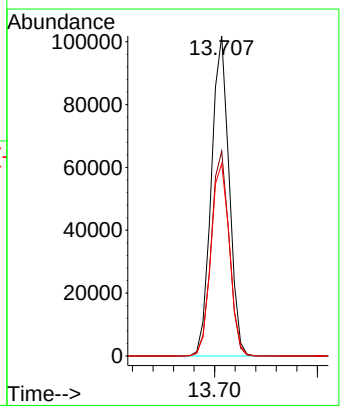
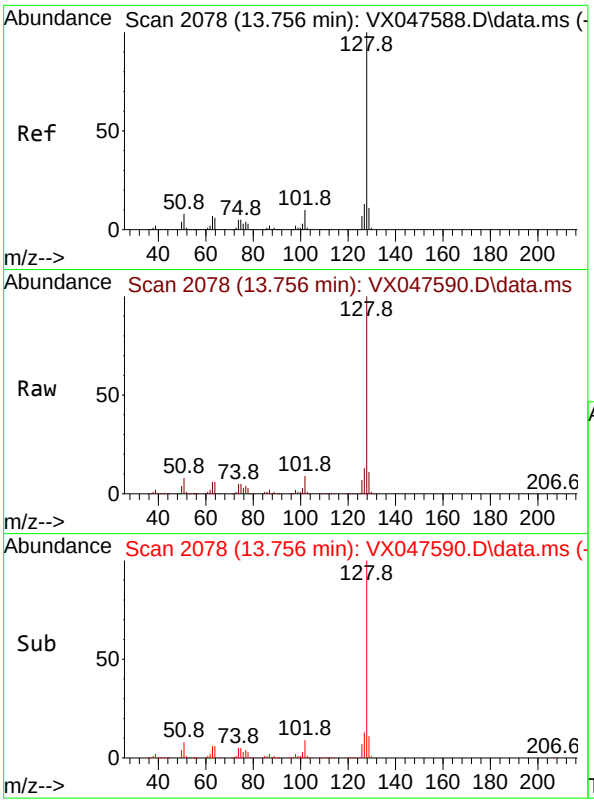


#94
Hexachlorobutadiene
Concen: 145.110 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:225 Resp: 121791

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.7	95.1
227	62.8	32.0	96.0

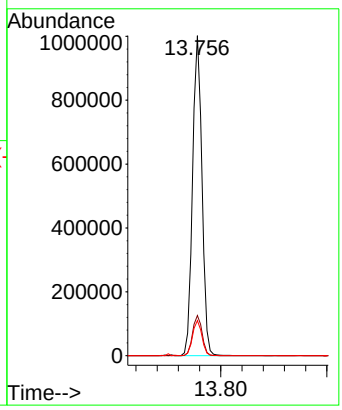




#95
Naphthalene
Concen: 163.388 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:128 Resp: 122936

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
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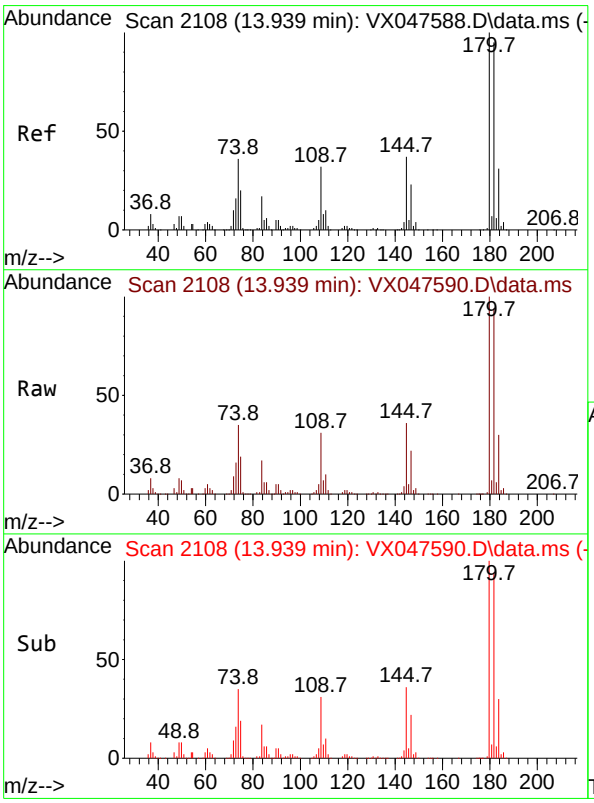
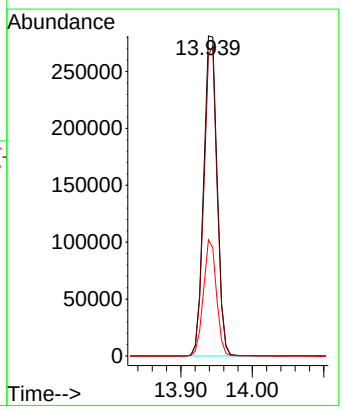


#96
1,2,3-Trichlorobenzene
Concen: 160.704 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:180 Resp: 369382

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.8
145	34.9	17.9	53.7



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.100%		
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.120%		
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.820%		
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.040%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l		98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l		100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l		100
44) Trichloroethene	7.104	130	114708	48.037	ug/l		98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l		98
46) Dibromomethane	7.562	93	88297	47.976	ug/l		98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l		96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l		99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l		98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l		100
52) Toluene	8.702	92	292879	48.130	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l		97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l		98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l		99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l		99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l		99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l		99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l		99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l		98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l		98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l		99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l		99
69) o-Xylene	10.622	106	204323	50.159	ug/l		99
70) Styrene	10.640	104	353567	49.536	ug/l		99
71) Bromoform	10.780	173	86524	51.207	ug/l	#	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l		100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l		99
76) 1,2,3-Trichloropropane	11.219	75	149779m	53.124	ug/l		
77) Bromobenzene	11.183	156	125610	48.173	ug/l		98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l		99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l		99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l		100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l		99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l		100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l		99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l		100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l		100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l		99
95) Naphthalene	13.756	128	464206	50.836	ug/l		100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
ICVVX091625

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Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
ICVVX091625

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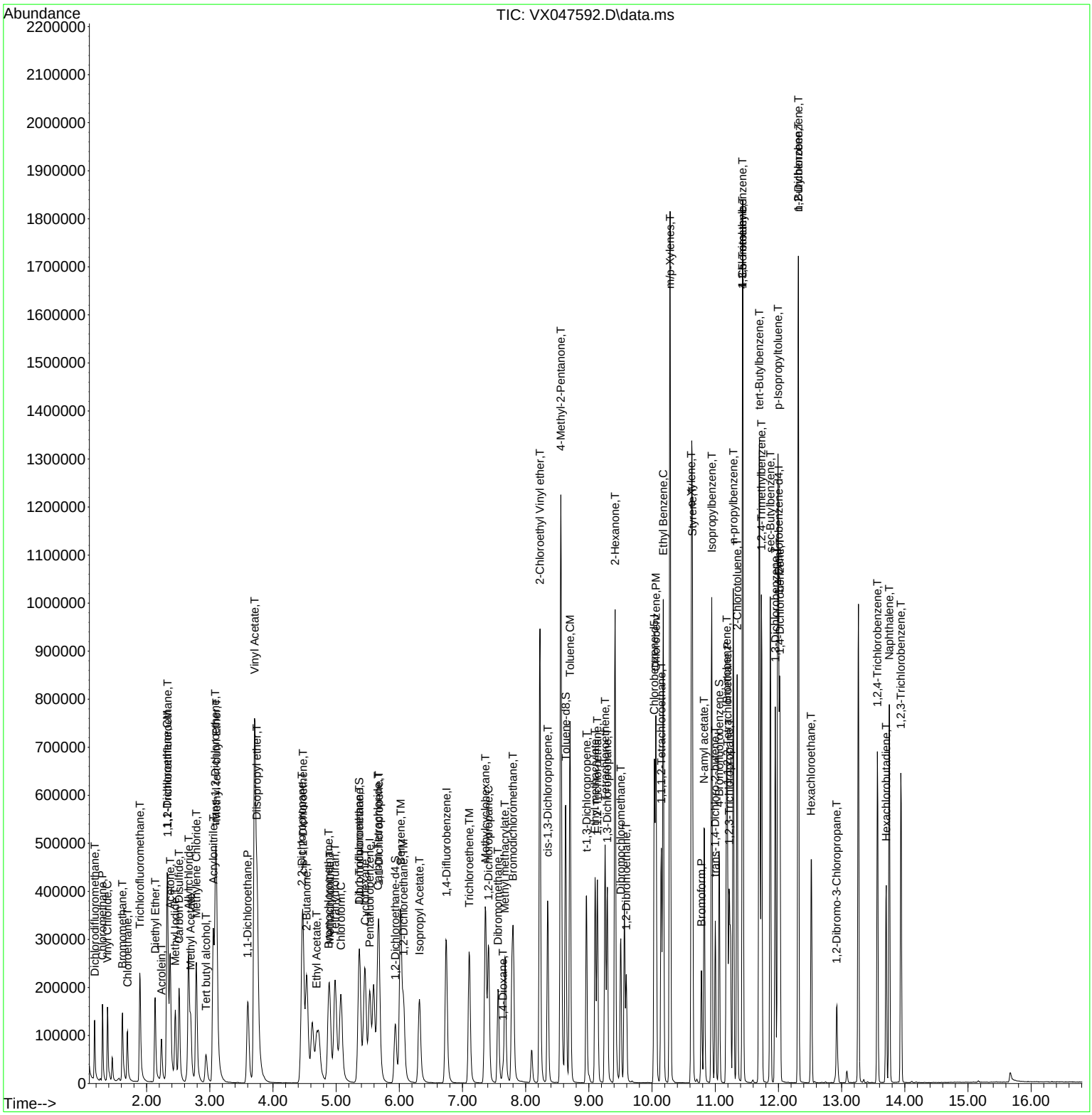
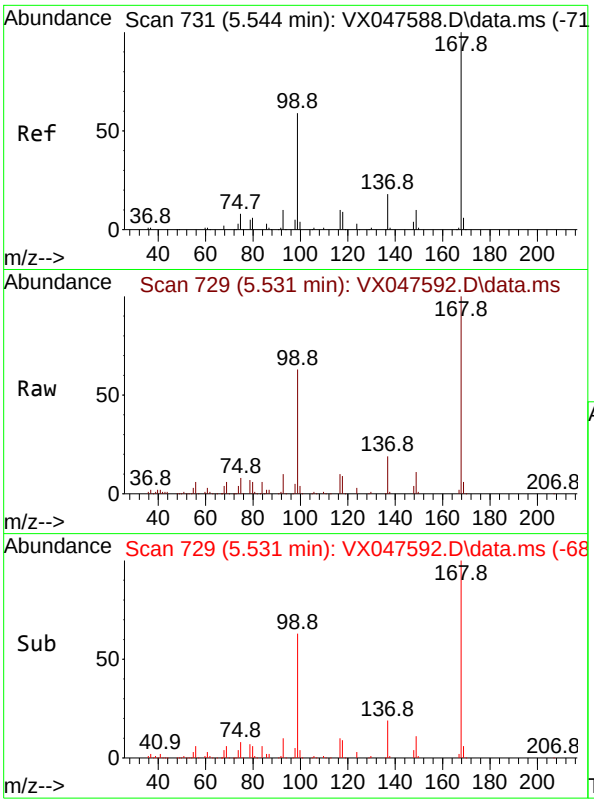
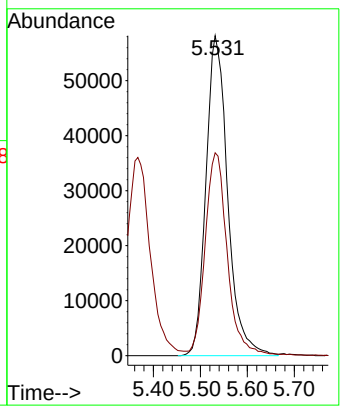




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 7
Delta R.T. -0.013 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:168 Resp: 18648

Ion	Ratio	Lower	Upper
168	100		
99	62.9	48.8	73.2



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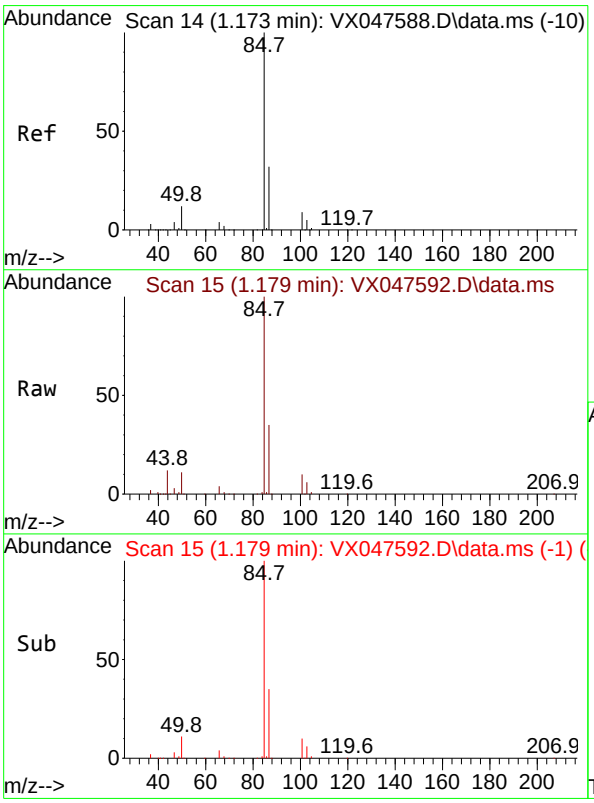
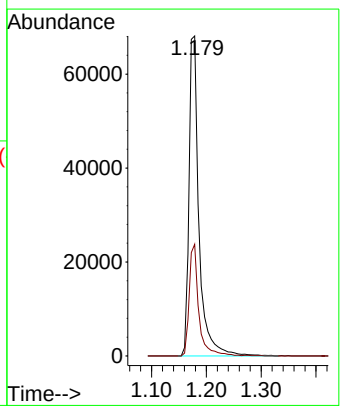
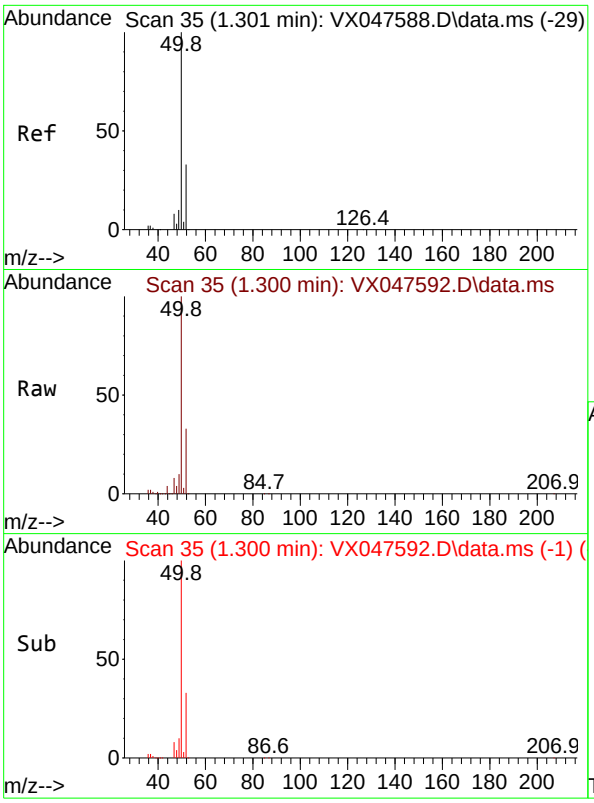


#2
Dichlorodifluoromethane
Concen: 44.592 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 85 Resp: 86110

Ion	Ratio	Lower	Upper
85	100		
87	34.9	15.8	47.3

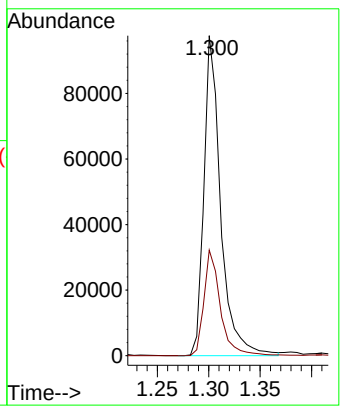




#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 50 Resp: 11093

Ion	Ratio	Lower	Upper
50	100		
52	33.0	26.1	39.1



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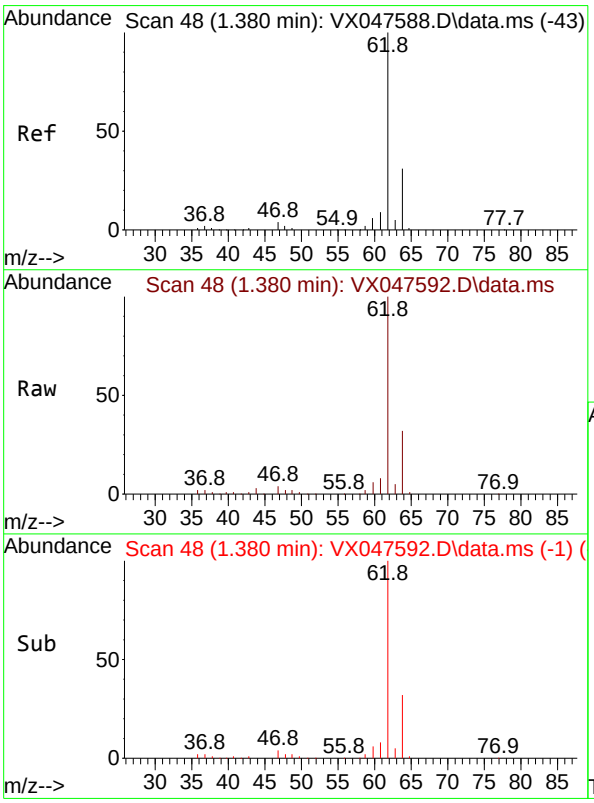
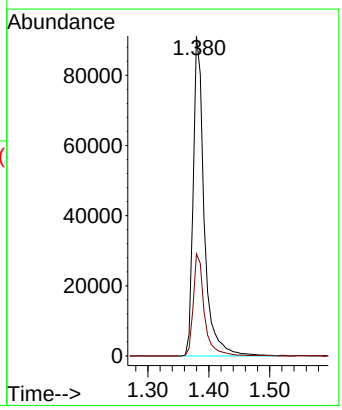
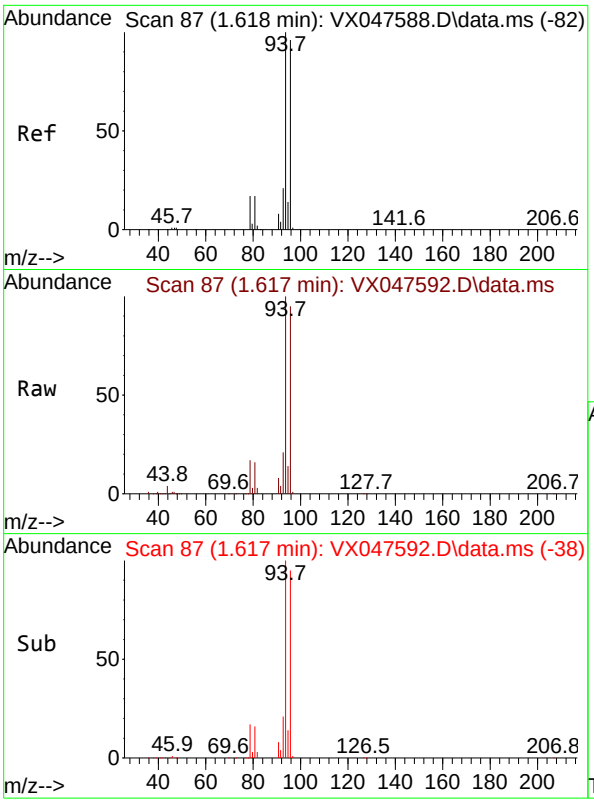


#4
Vinyl Chloride
Concen: 45.783 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 113742

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.9	37.3

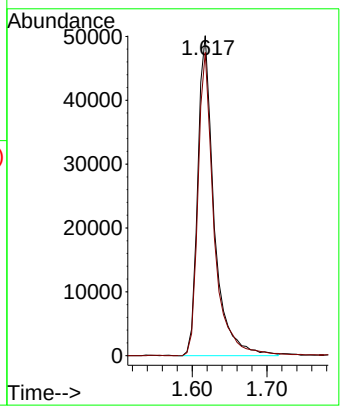




#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 94 Resp: 7638

Ion	Ratio	Lower	Upper
94	100		
96	94.7	76.6	115.0



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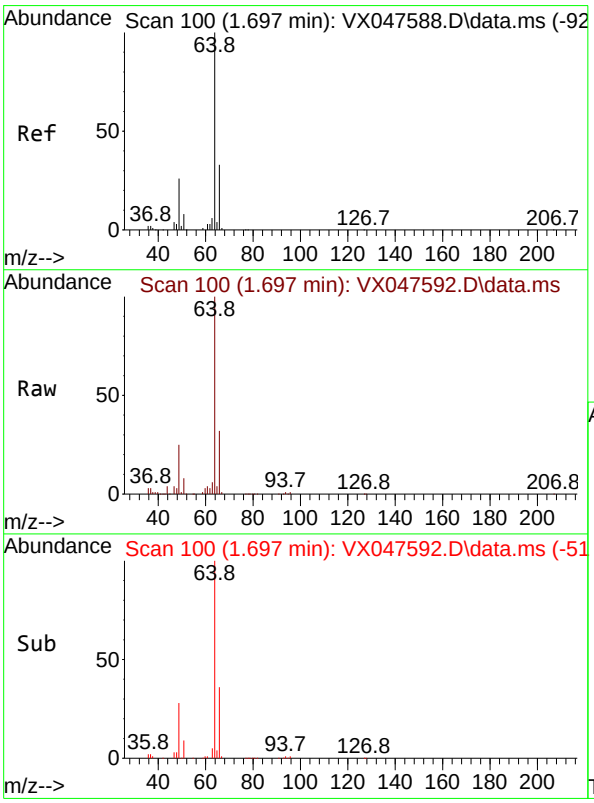
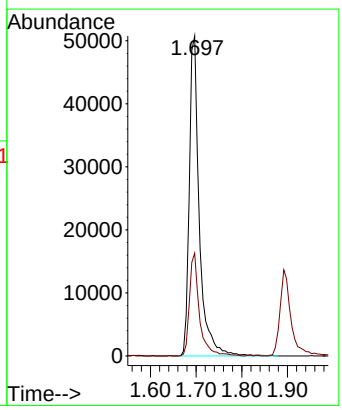
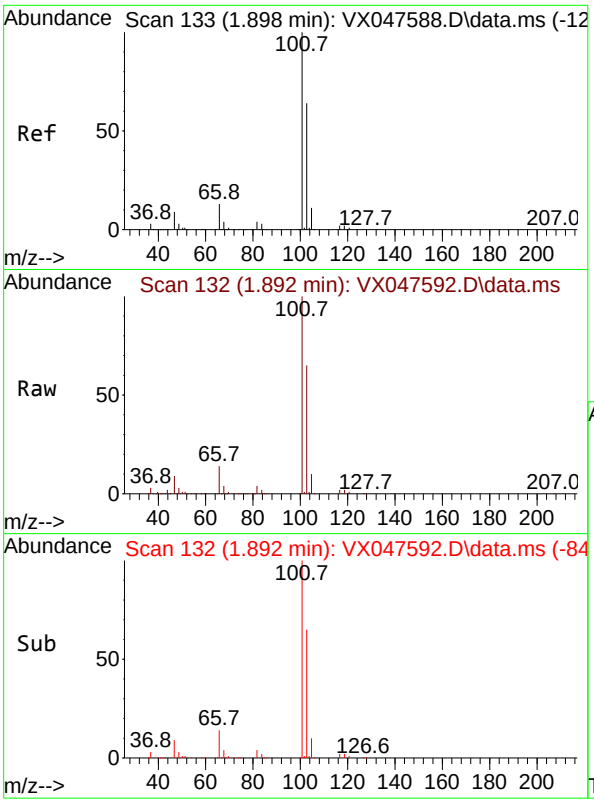


#6
Chloroethane
Concen: 46.575 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 64 Resp: 77337

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.1	39.1

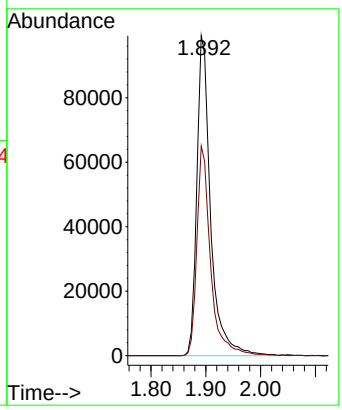




#7
Trichlorofluoromethane
Concen: 47.074 ug/l
RT: 1.892 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:101 Resp: 17364

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2



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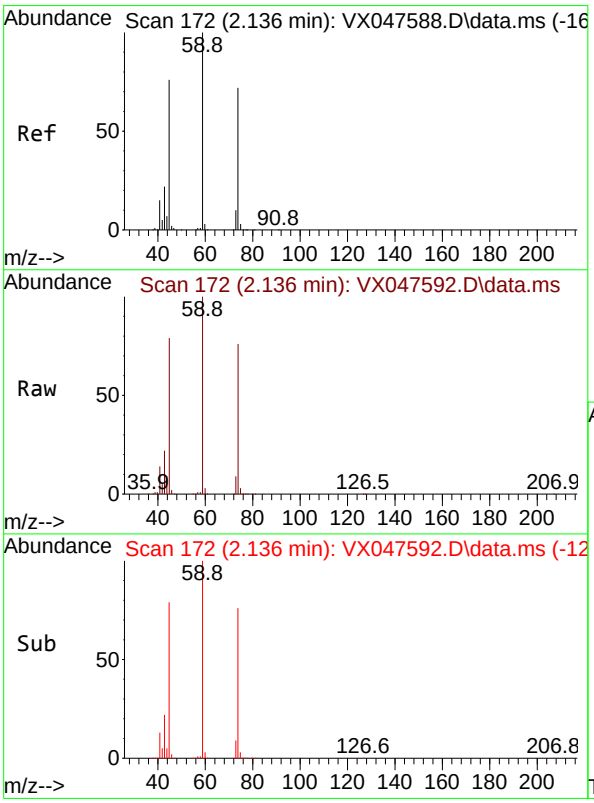
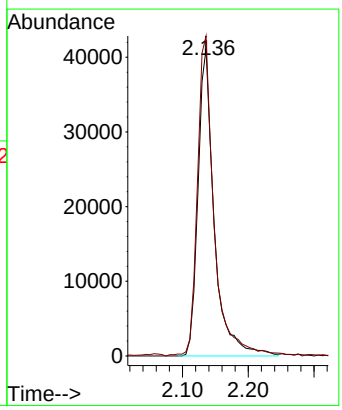
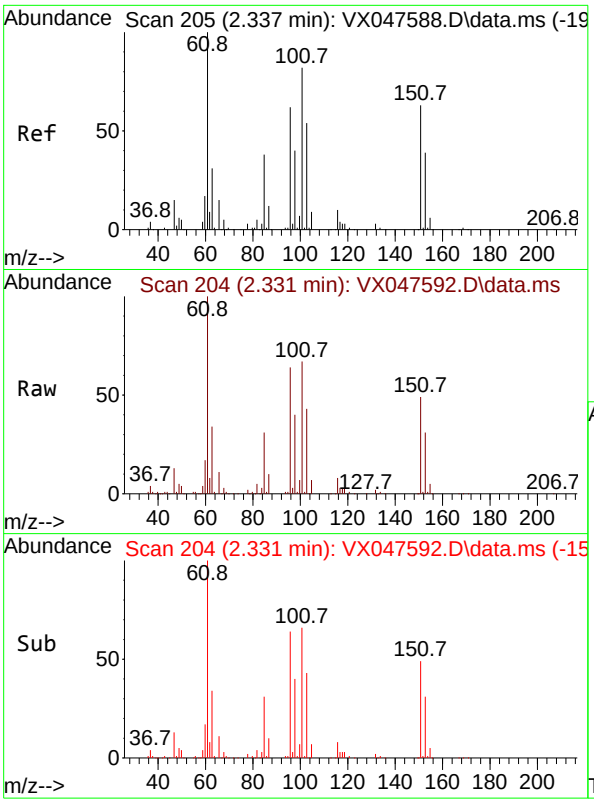


#8
Diethyl Ether
Concen: 46.693 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 74 Resp: 70459

Ion	Ratio	Lower	Upper
74	100		
45	107.1	52.3	156.8

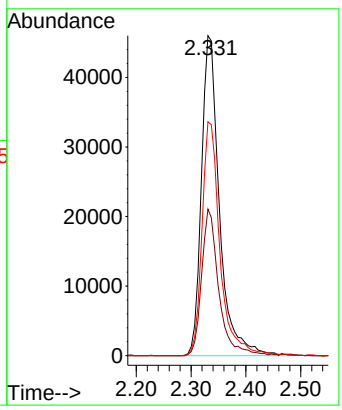




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.524 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:101 Resp: 10466

Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.5	53.3
151	73.3	59.4	89.0



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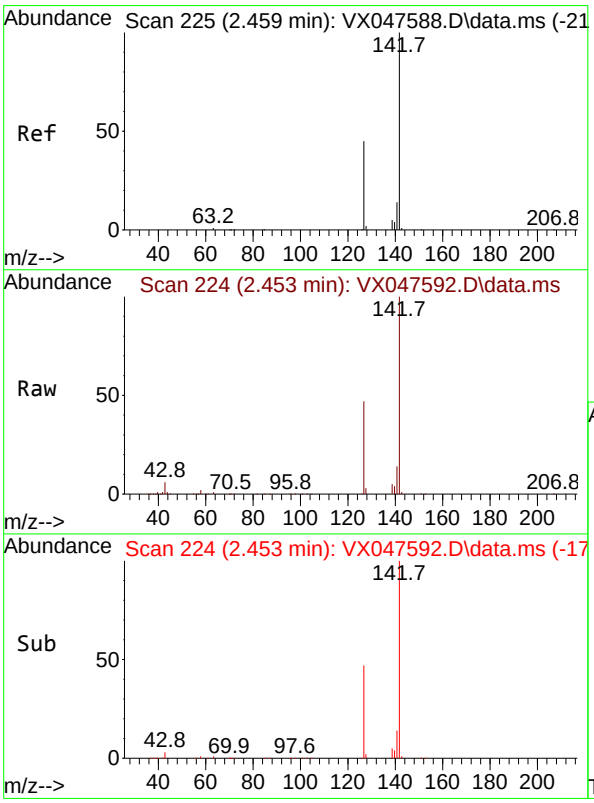
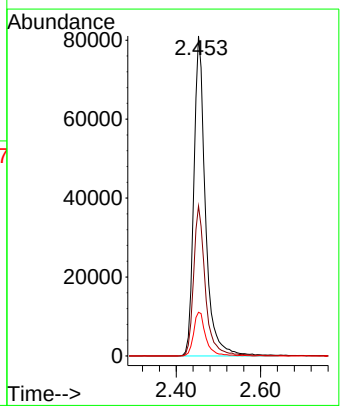
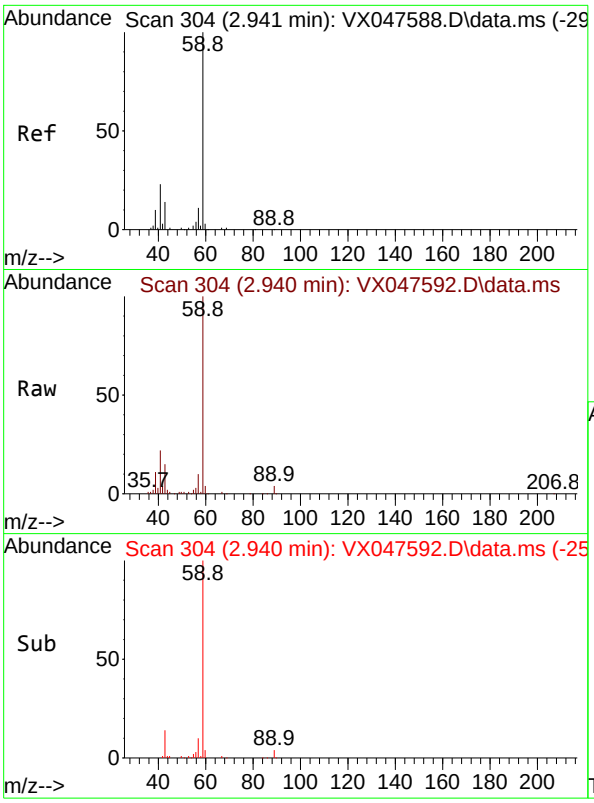


#10
Methyl Iodide
Concen: 46.210 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:142 Resp: 155450

Ion	Ratio	Lower	Upper
142	100		
127	47.6	37.2	55.8
141	14.4	11.4	17.0

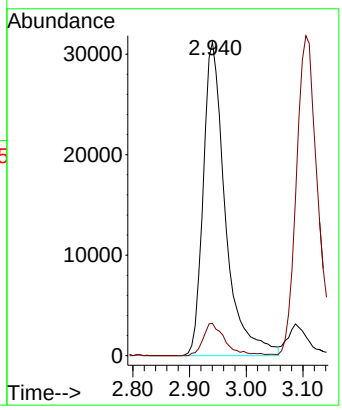




#11
Tert butyl alcohol
Concen: 256.271 ug/l
RT: 2.940 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 59 Resp: 8472

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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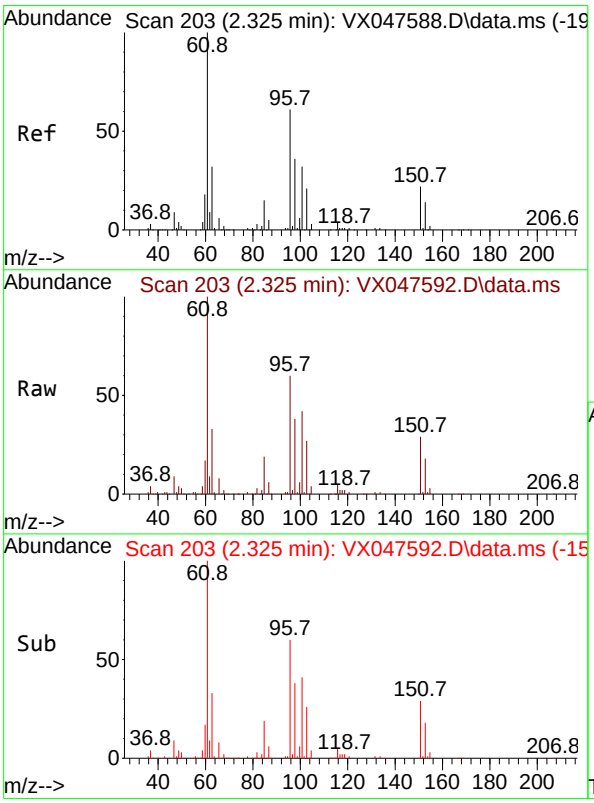
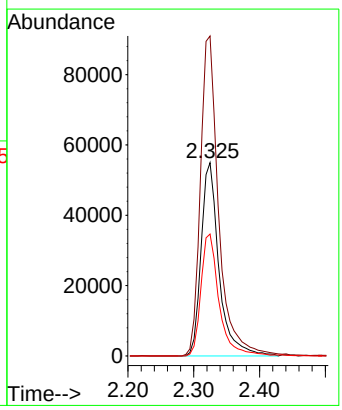
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

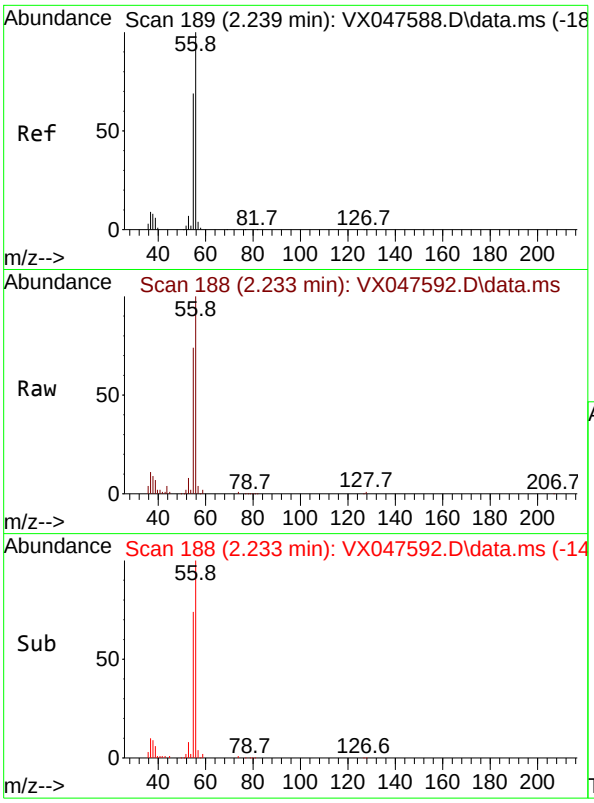


#12
1,1-Dichloroethene
Concen: 47.076 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 104302

Ion	Ratio	Lower	Upper
96	100		
61	165.6	131.0	196.6
98	63.1	47.7	71.5

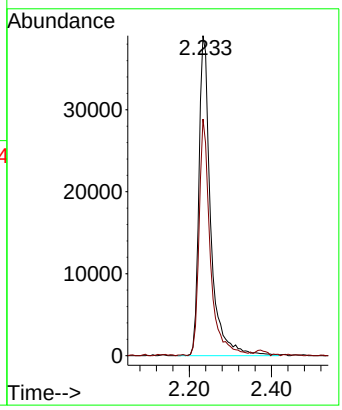




#13
Acrolein
Concen: 254.867 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 56 Resp: 7764

Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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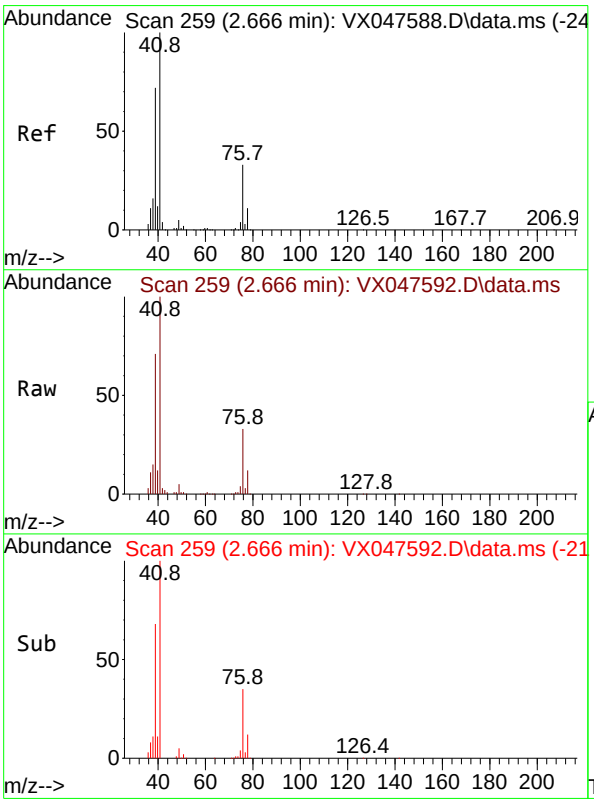
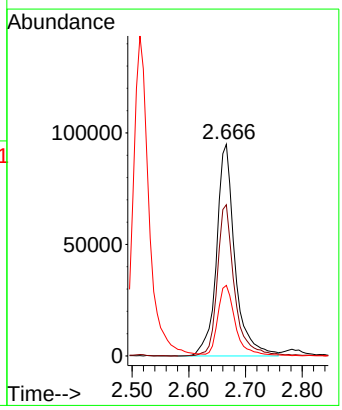
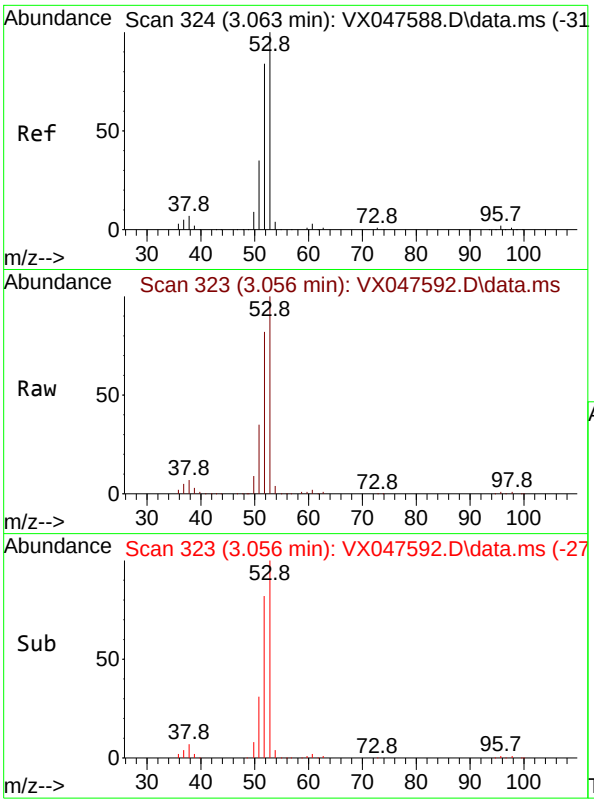


#14
Allyl chloride
Concen: 46.742 ug/l
RT: 2.666 min Scan# 259
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 213704

Ion	Ratio	Lower	Upper
41	100		
39	67.2	54.7	82.1
76	31.7	25.7	38.5

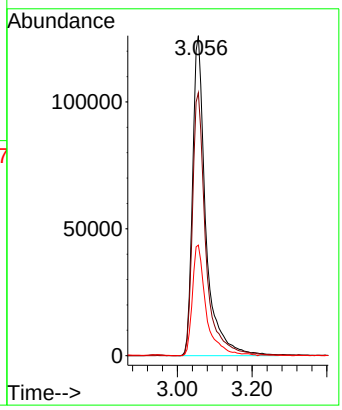




#15
Acrylonitrile
Concen: 253.567 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 53 Resp: 31050

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.2	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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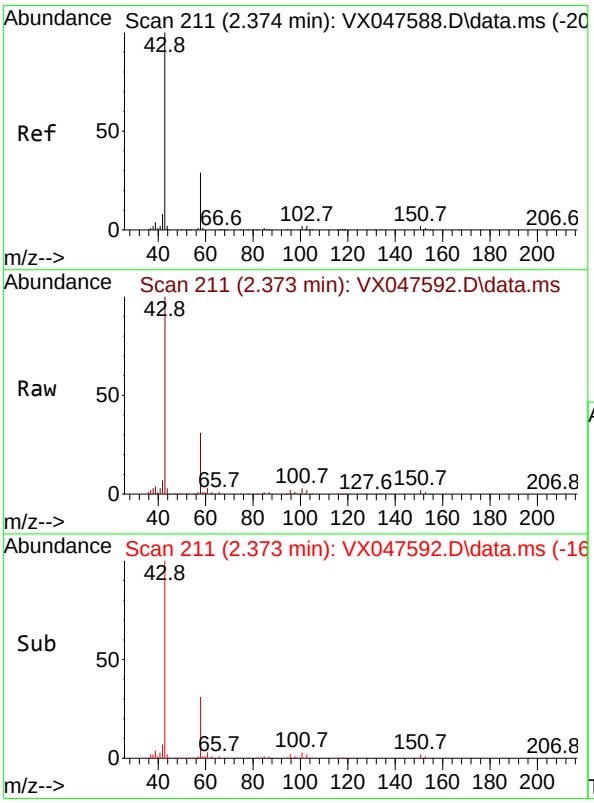
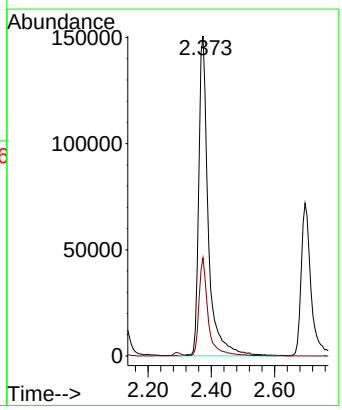
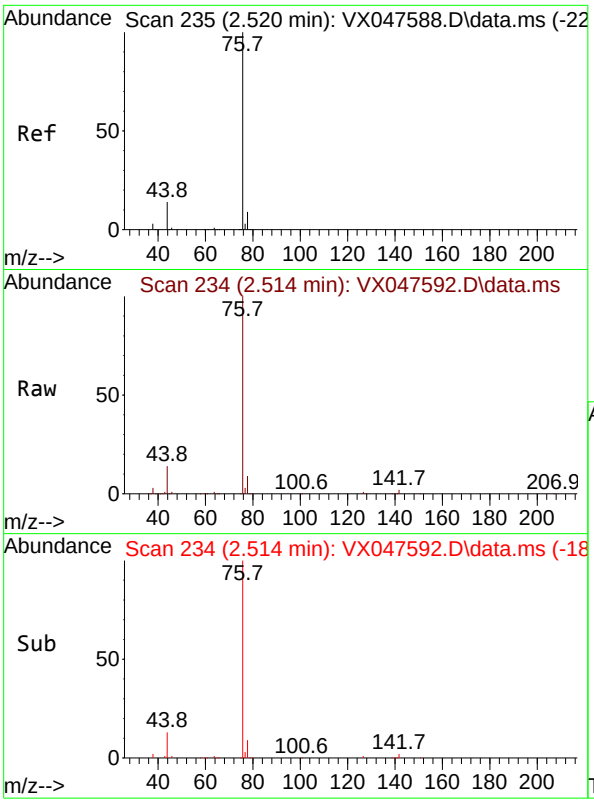


#16
Acetone
Concen: 245.006 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 316217

Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.4	35.0

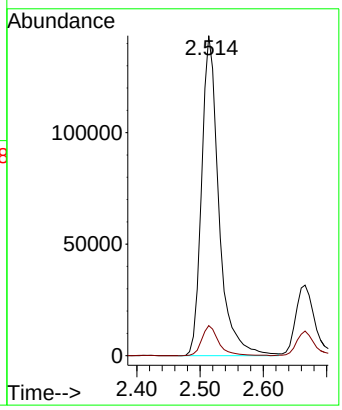




#17
Carbon Disulfide
Concen: 44.966 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 76 Resp: 27274

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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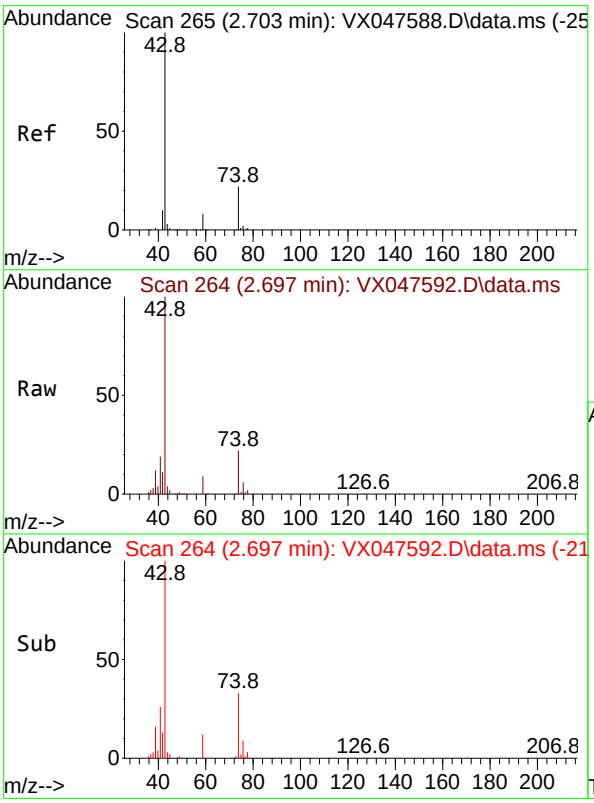
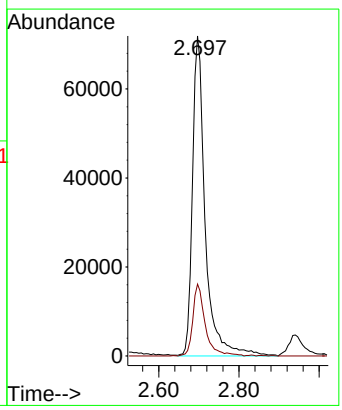
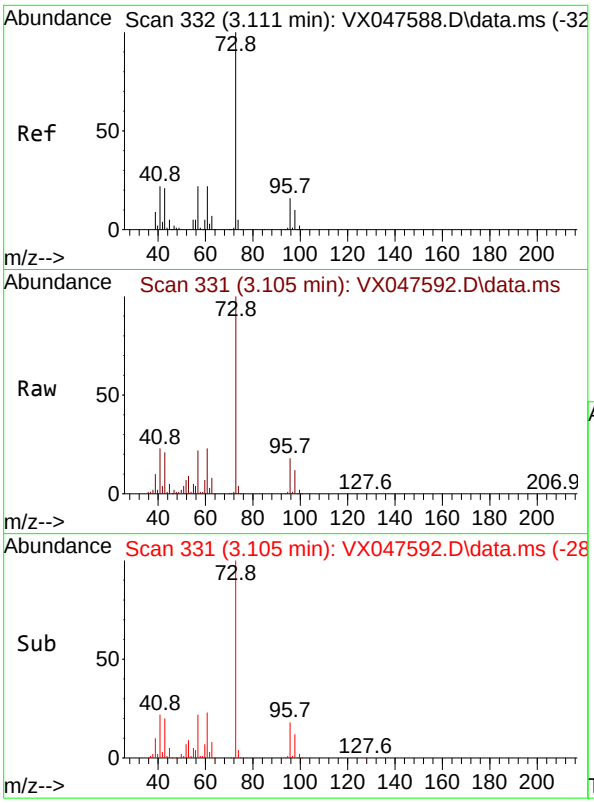


#18
Methyl Acetate
Concen: 55.175 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 158480

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

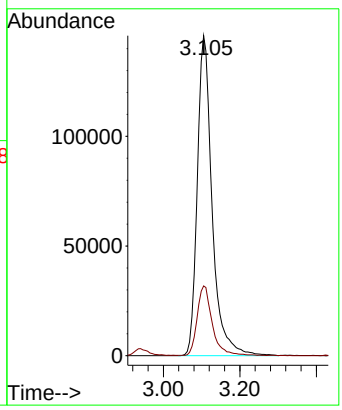




#19
Methyl tert-butyl Ether
Concen: 48.538 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 73 Resp: 39257

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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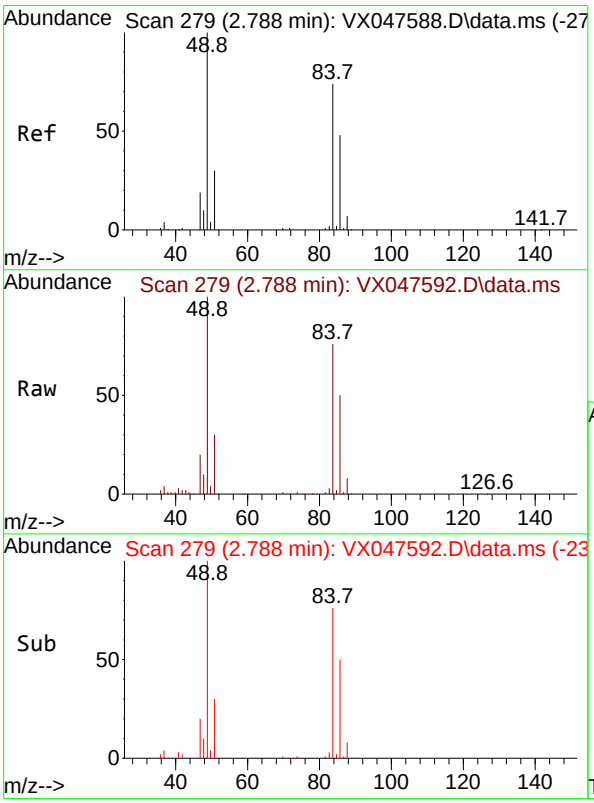
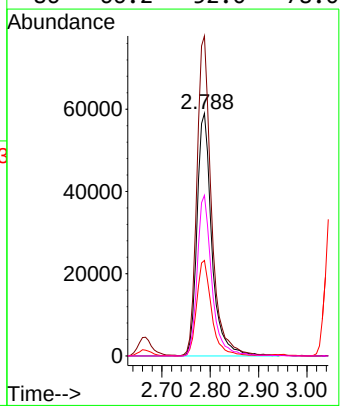
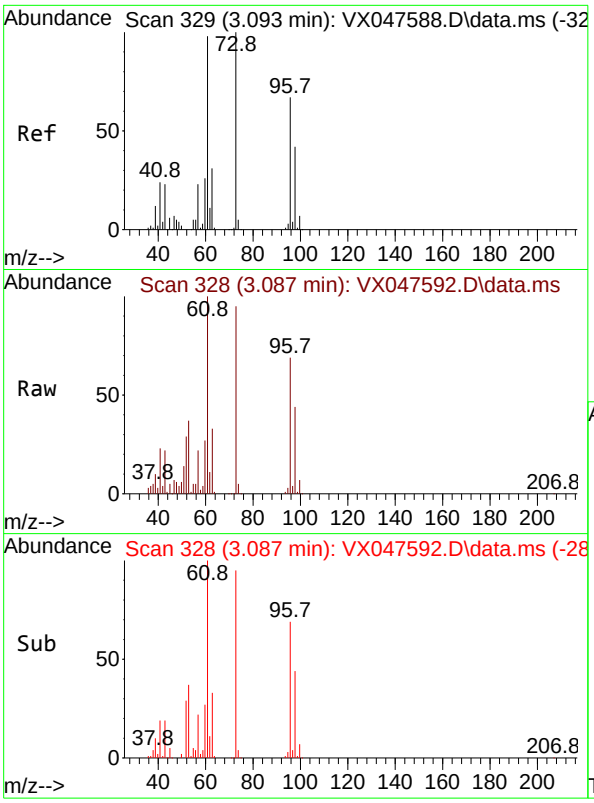


#20
Methylene Chloride
Concen: 46.000 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 84 Resp: 125669

Ion	Ratio	Lower	Upper
84	100		
49	131.8	108.6	162.8
51	39.4	32.6	48.8
86	66.2	52.0	78.0

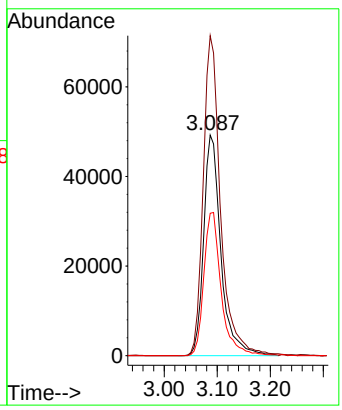




#21
trans-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 11141

Ion	Ratio	Lower	Upper
96	100		
61	145.1	116.2	174.2
98	64.5	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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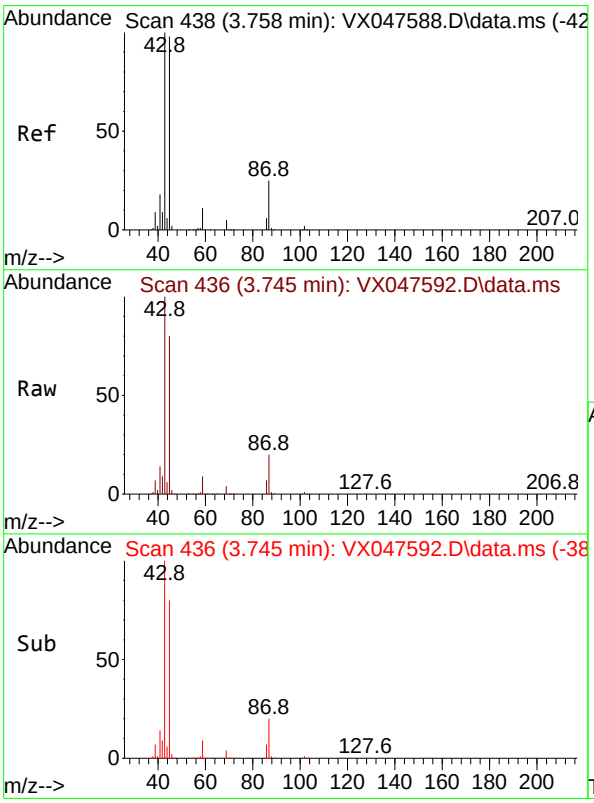
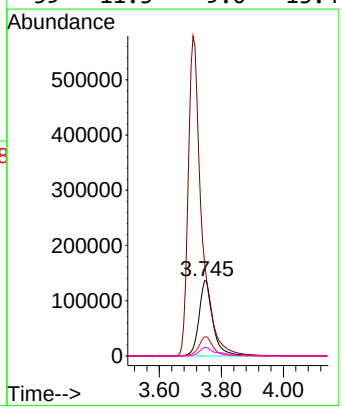
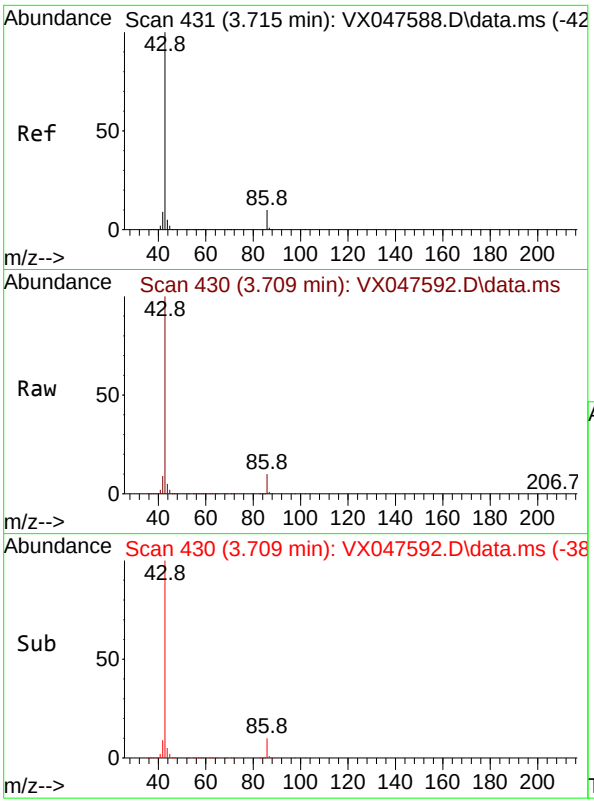


#22
Diisopropyl ether
Concen: 48.174 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 45 Resp: 426854

Ion	Ratio	Lower	Upper
45	100		
43	124.9	81.0	121.4#
87	25.2	20.3	30.5
59	11.3	9.0	13.4

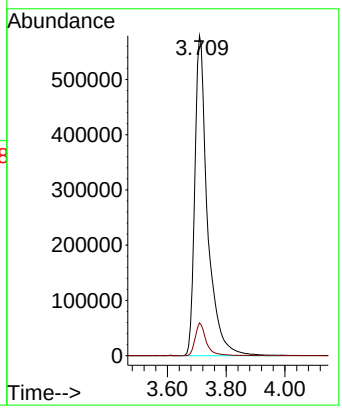




#23
Vinyl Acetate
Concen: 245.539 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 174126

Ion	Ratio	Lower	Upper
43	100		
86	10.2	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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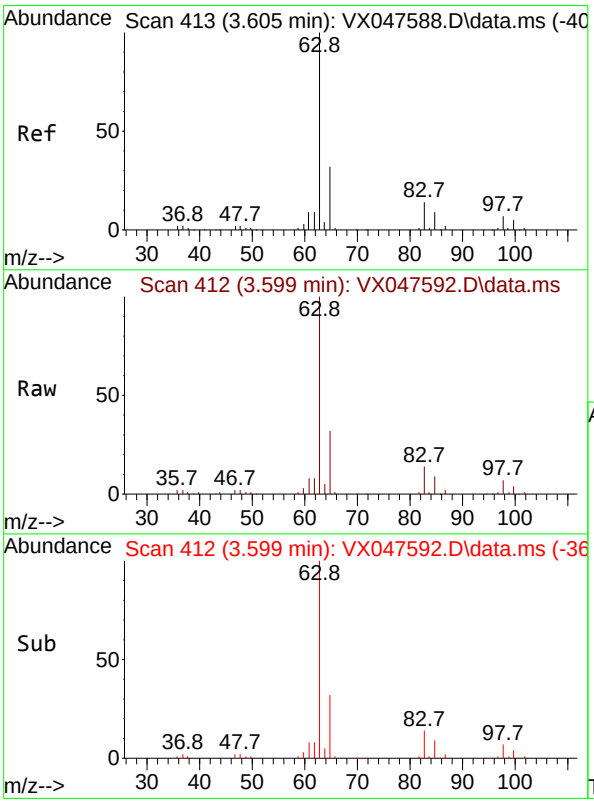
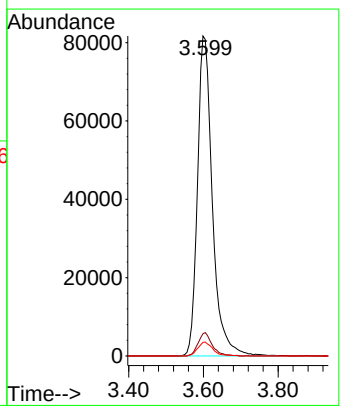
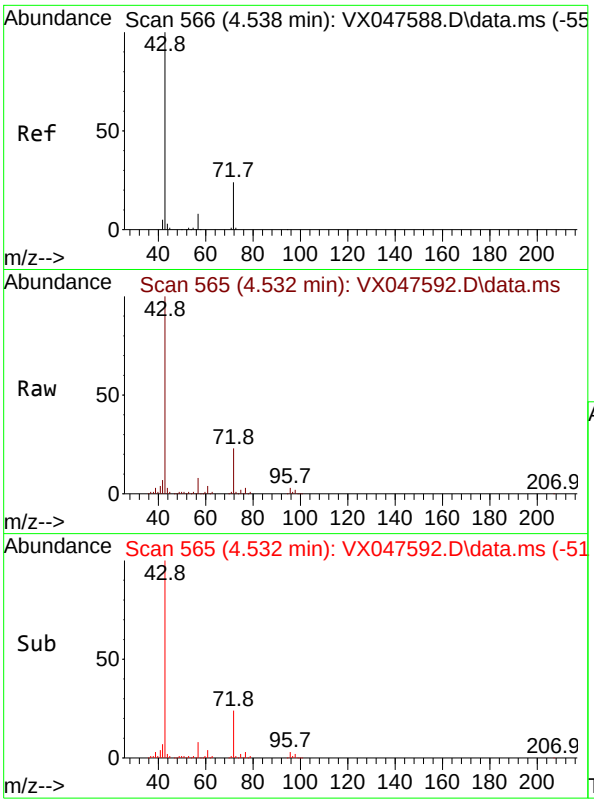


#24
1,1-Dichloroethane
Concen: 48.041 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 226249

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.2
100	4.4	2.3	6.9

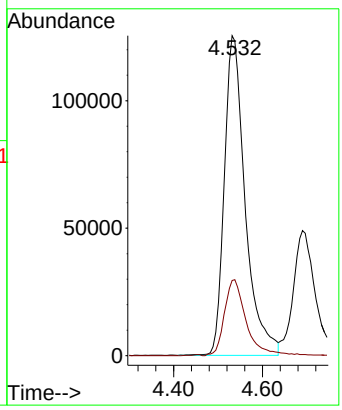




#25
2-Butanone
Concen: 253.598 ug/l
RT: 4.532 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 40827

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.1	30.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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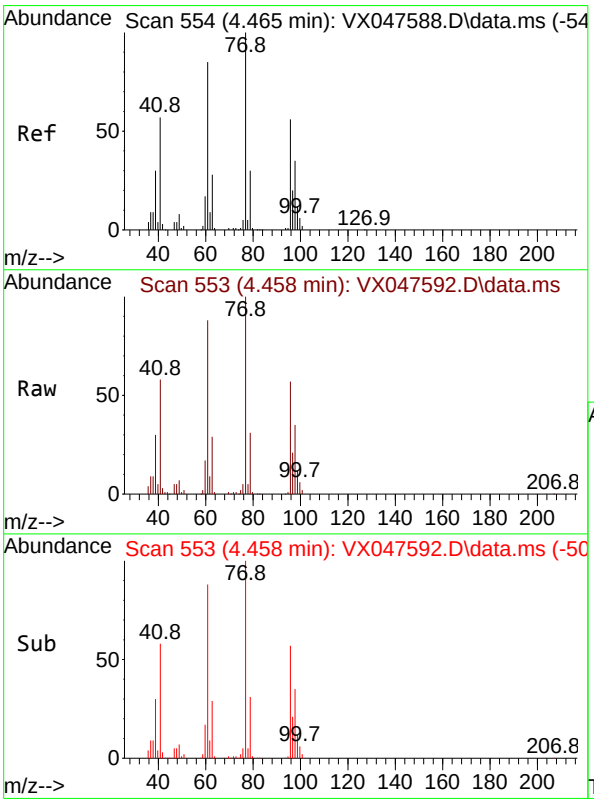
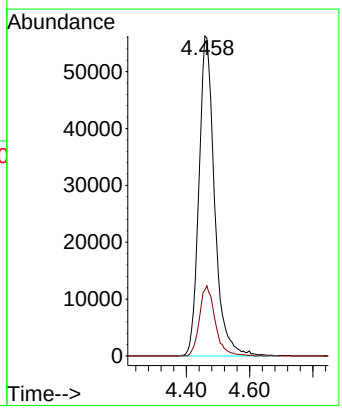
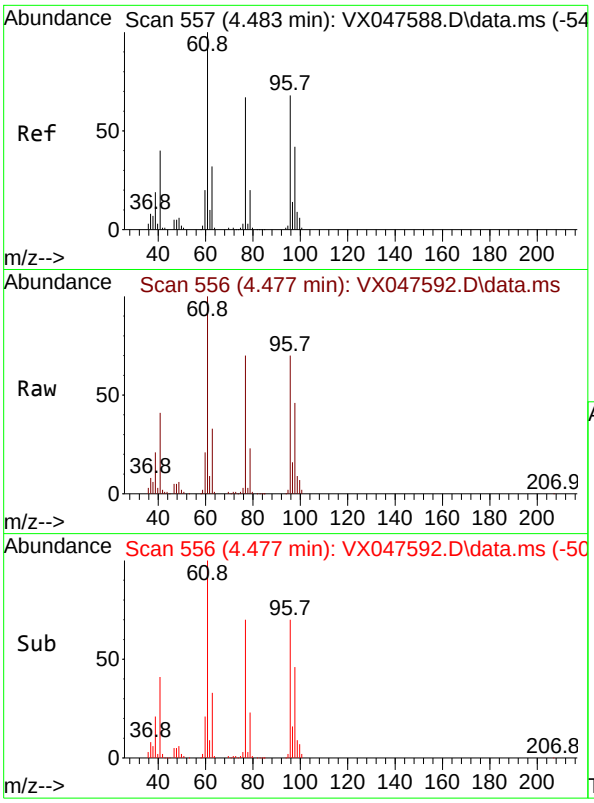


#26
2,2-Dichloropropane
Concen: 49.494 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 77 Resp: 193760

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7

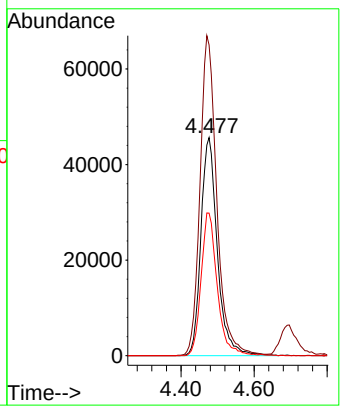




#27
cis-1,2-Dichloroethene
Concen: 48.826 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 96 Resp: 14263

Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	303.2
98	64.3	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
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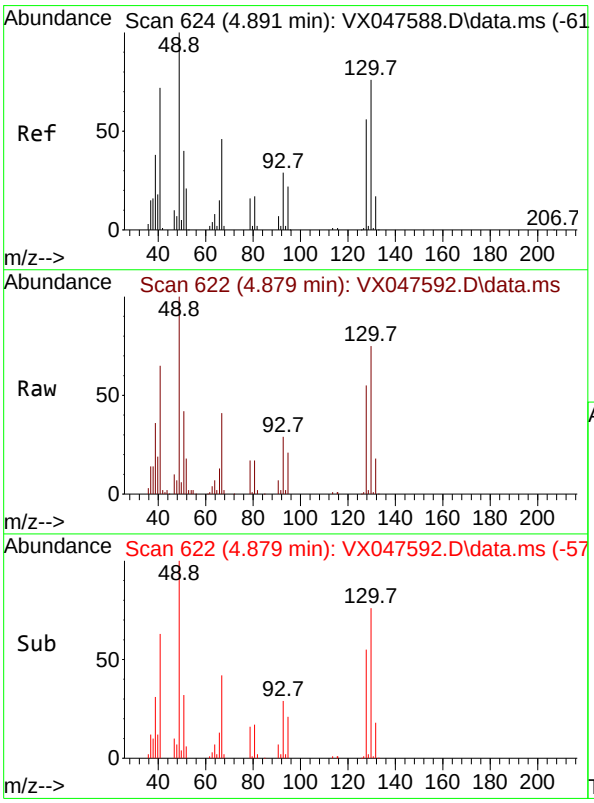
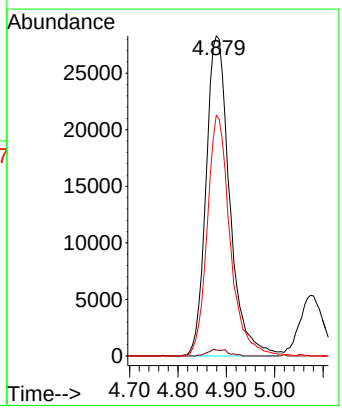
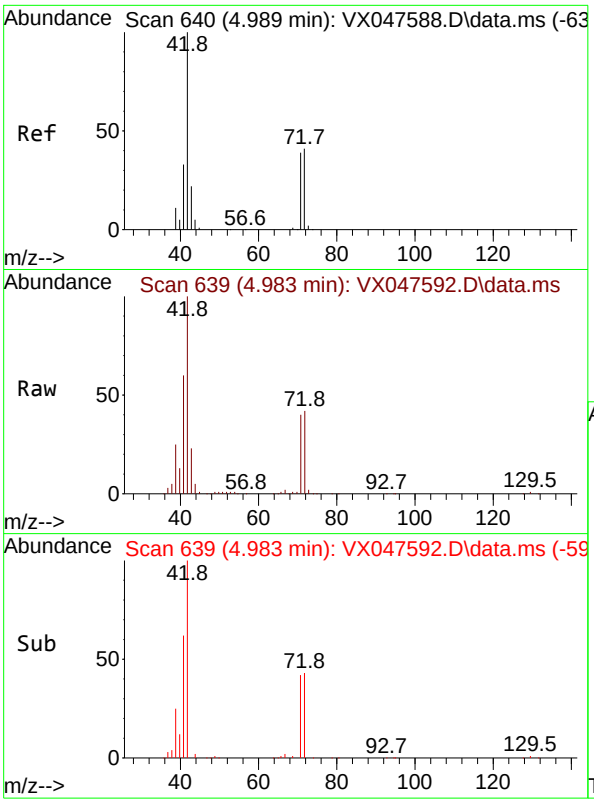


#28
Bromochloromethane
Concen: 46.586 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 49 Resp: 95782

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.2
130	72.9	57.8	86.8

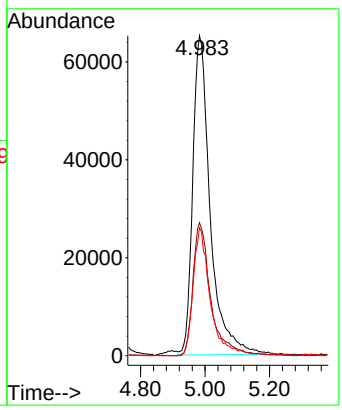




#29
Tetrahydrofuran
Concen: 253.375 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 42 Resp: 24539

Ion	Ratio	Lower	Upper
42	100		
72	42.7	34.2	51.2
71	38.9	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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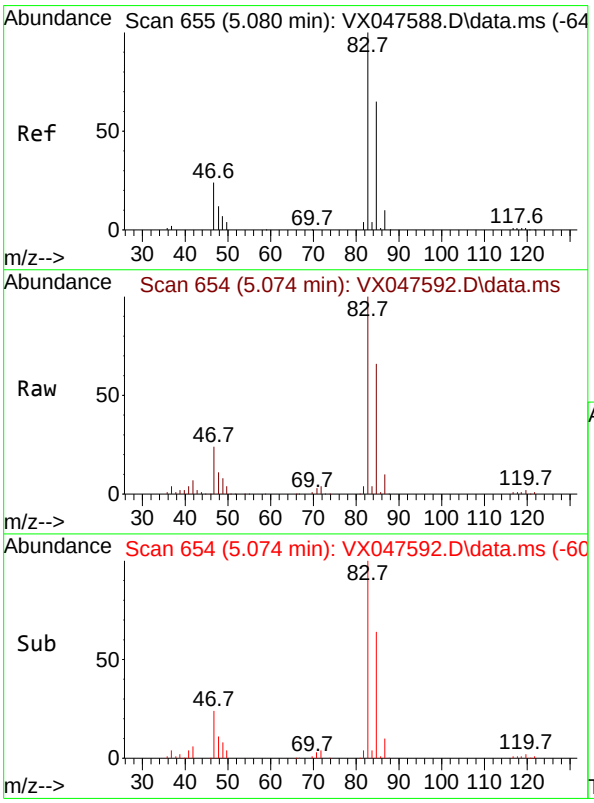
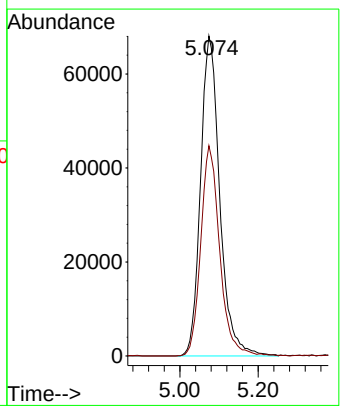
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

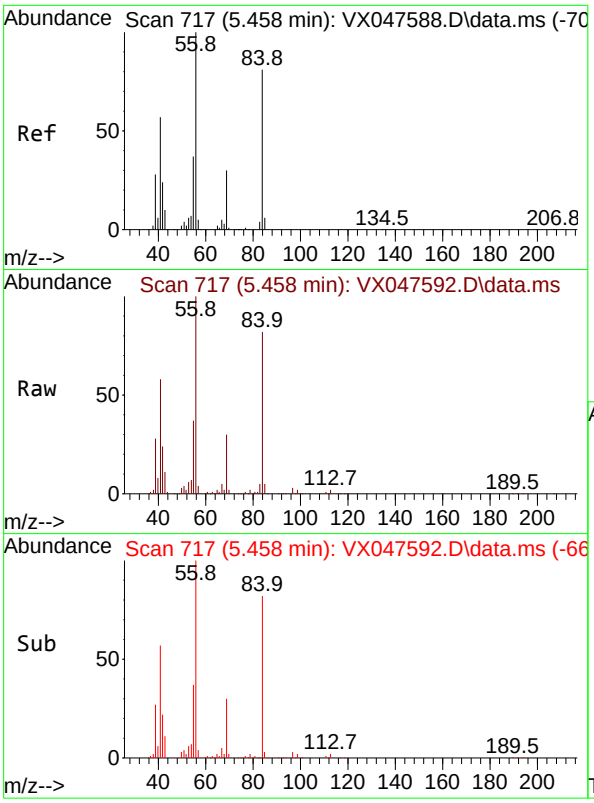


#30
Chloroform
Concen: 48.739 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 231954

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.8	77.6

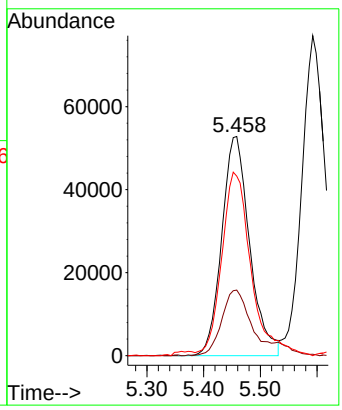




#31
Cyclohexane
Concen: 45.999 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 56 Resp: 18043

Ion	Ratio	Lower	Upper
56	100		
69	29.6	23.8	35.8
84	80.3	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
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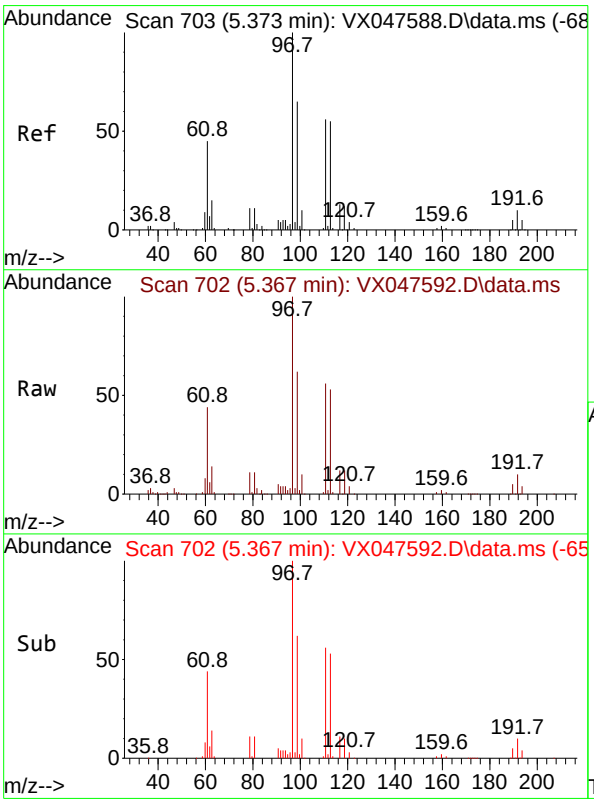
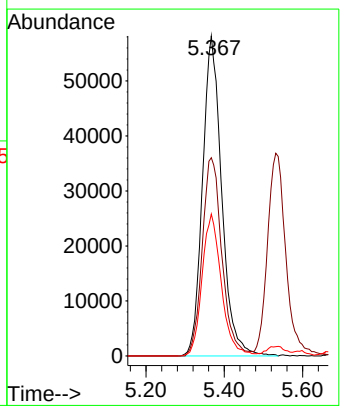
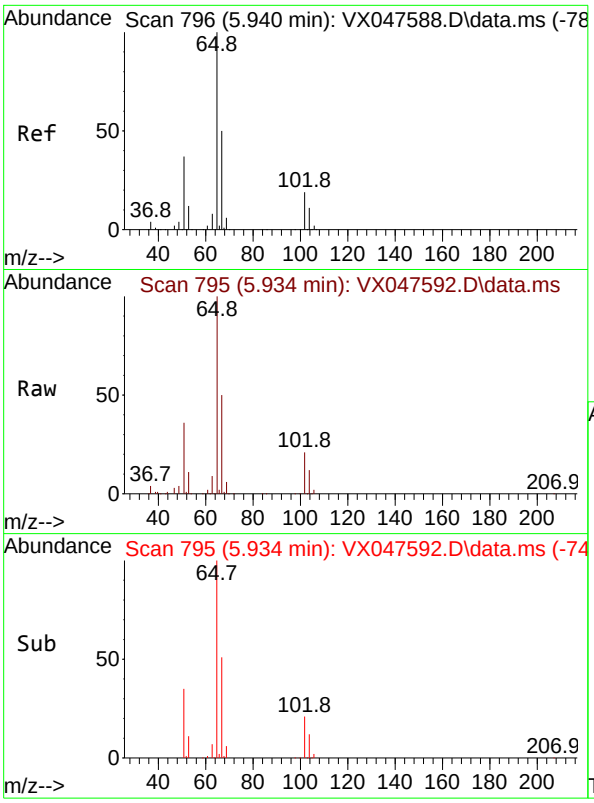


#32
1,1,1-Trichloroethane
Concen: 48.978 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 197711

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	76.0
61	44.6	35.8	53.8

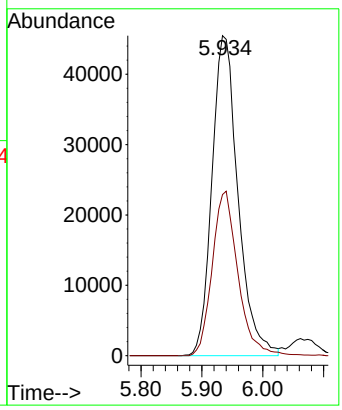




#33
1,2-Dichloroethane-d4
Concen: 45.550 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 65 Resp: 13520

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	103.0



Instrument :
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ClientSampleId :
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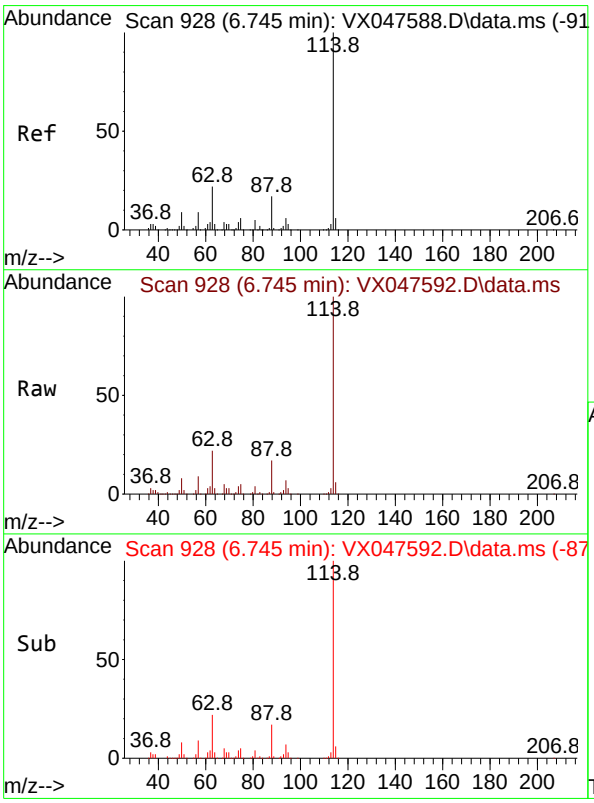
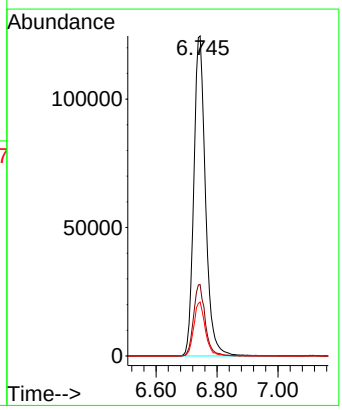
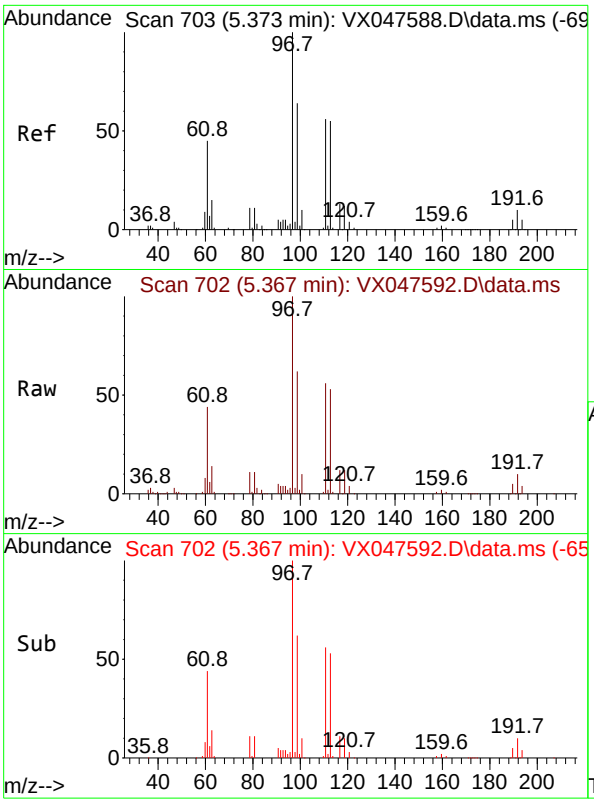


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:114 Resp: 331837

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	44.0
88	16.8	0.0	34.2

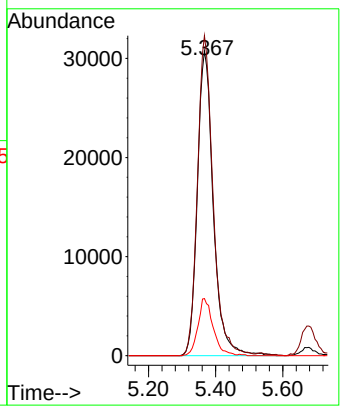




#35
Dibromofluoromethane
Concen: 45.559 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:113 Resp: 10139

Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.9	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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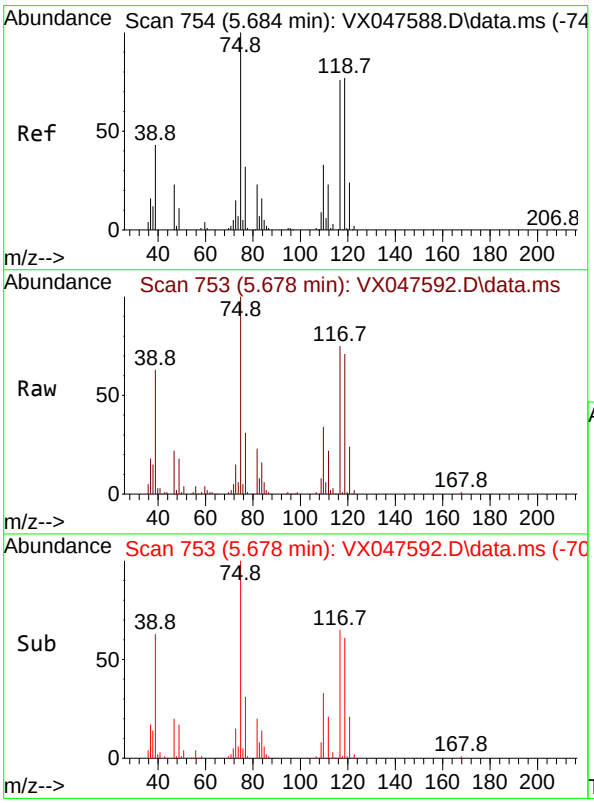
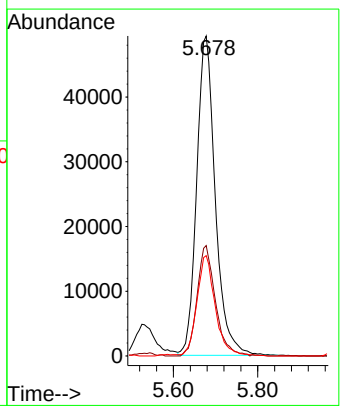
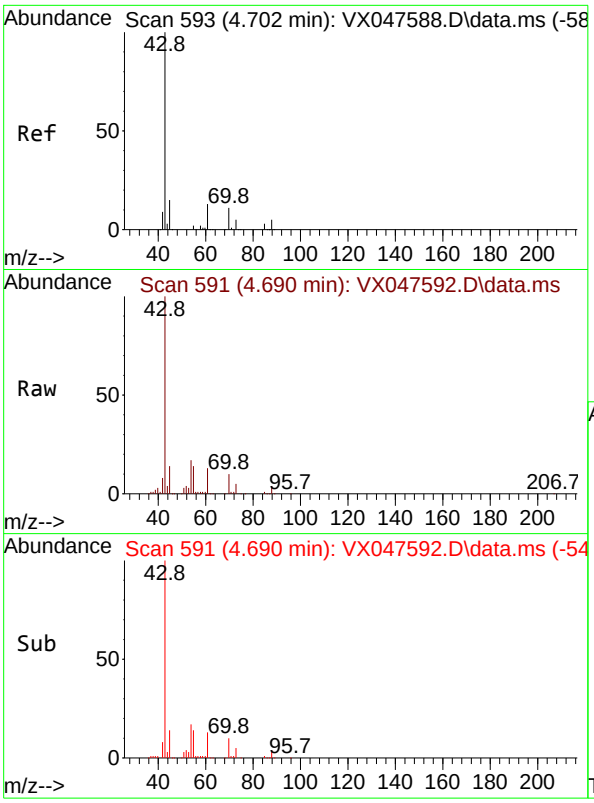


#36
1,1-Dichloropropene
Concen: 46.663 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 151745

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.0	24.3	36.5





#37
Ethyl Acetate
Concen: 49.241 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 17145

Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	9.8	7.9	11.9

Instrument :
MSVOA_X
ClientSampleId :
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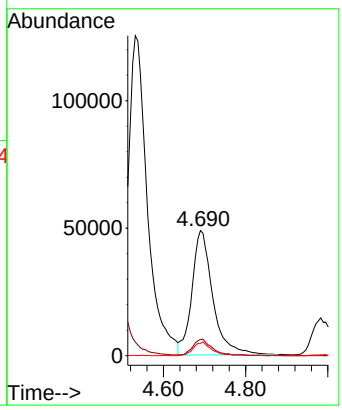
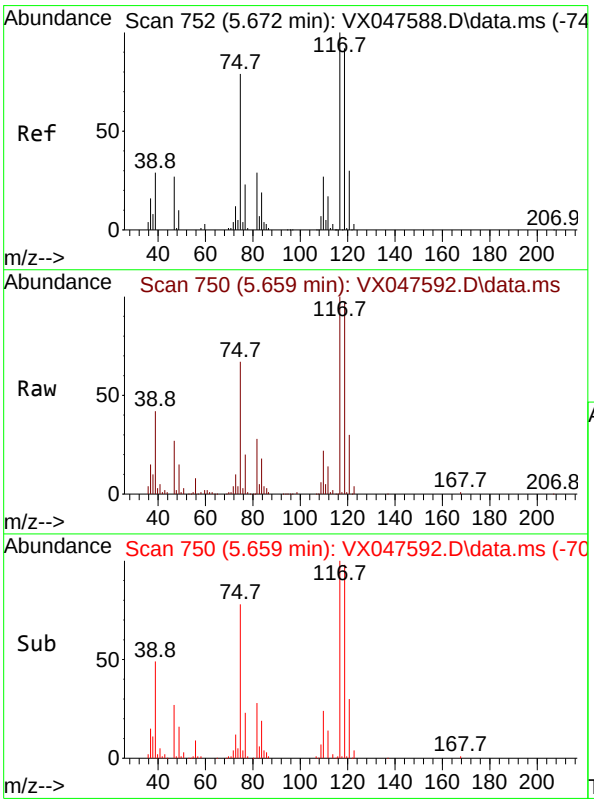
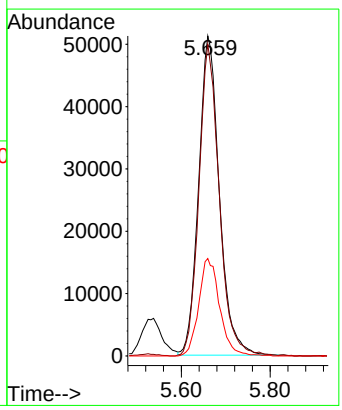


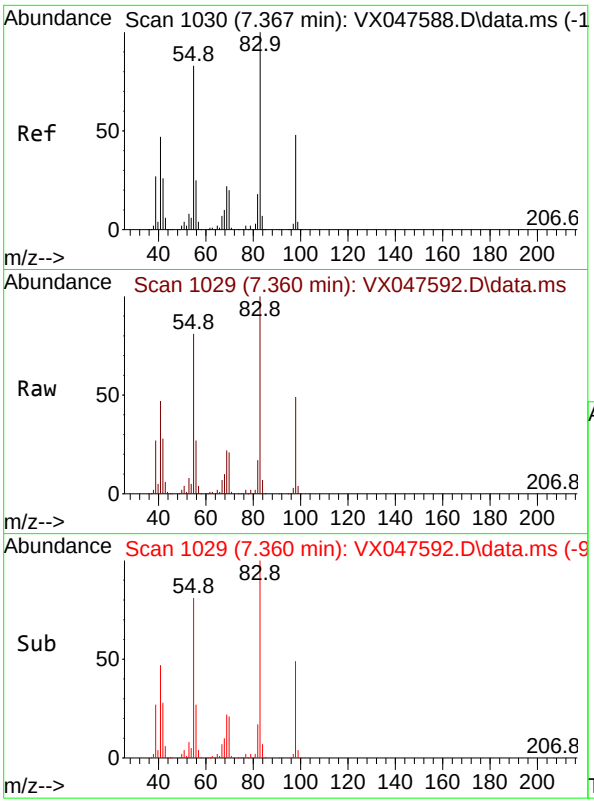


#38
Carbon Tetrachloride
Concen: 46.935 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 165834

Ion	Ratio	Lower	Upper
117	100		
119	97.6	73.4	110.2
121	30.5	23.8	35.6

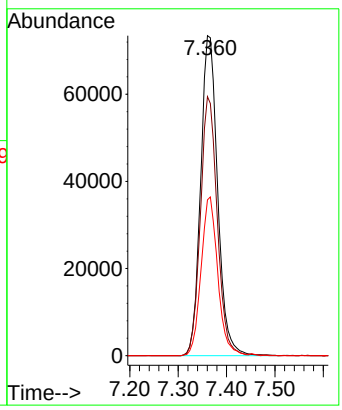




#39
Methylcyclohexane
Concen: 48.597 ug/l
RT: 7.360 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 17939

Ion	Ratio	Lower	Upper
83	100		
55	81.0	66.4	99.6
98	48.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
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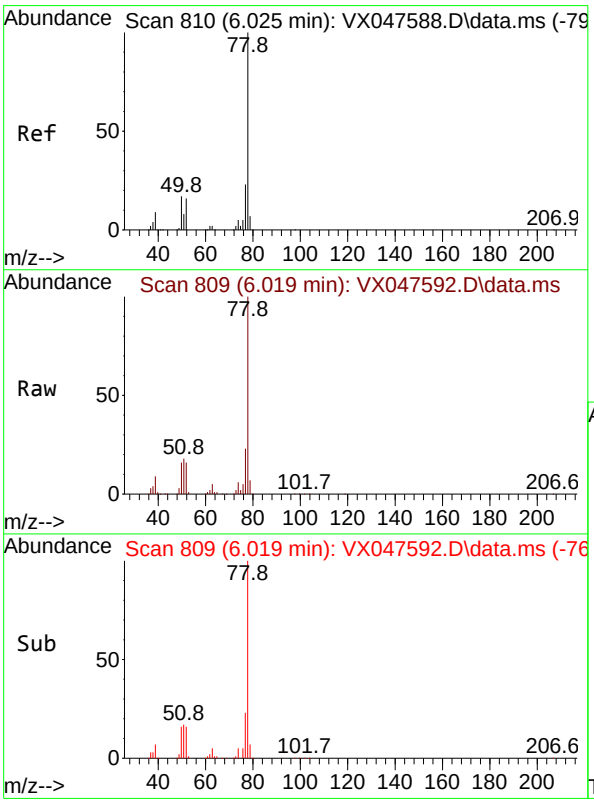
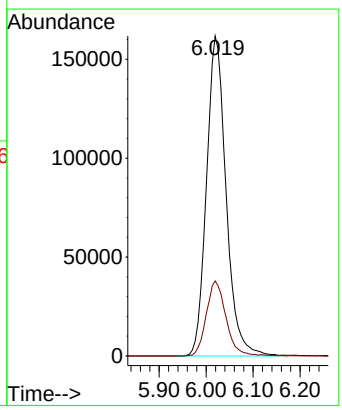
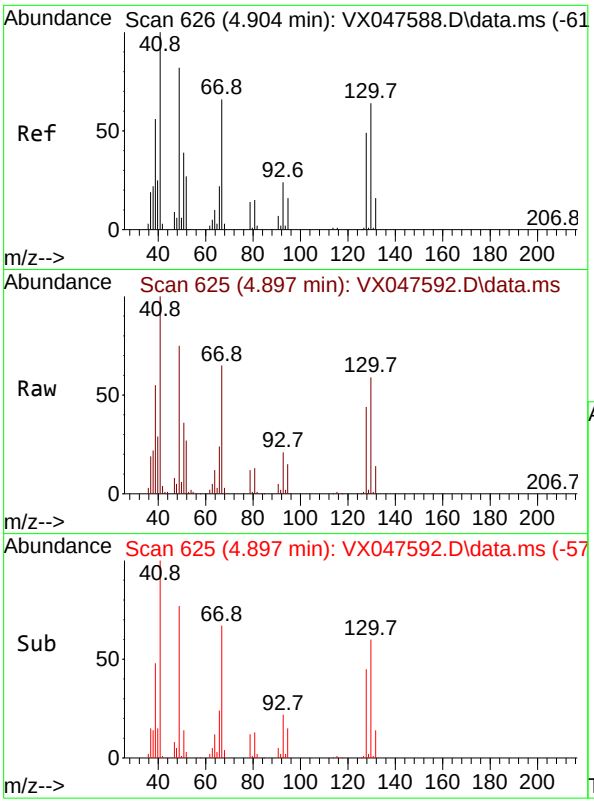


#40
Benzene
Concen: 47.357 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 78 Resp: 467748

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

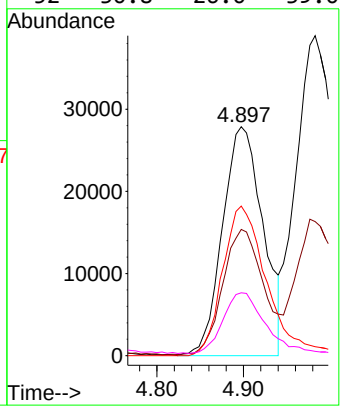




#41
Methacrylonitrile
Concen: 50.490 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 9075

Ion	Ratio	Lower	Upper
41	100		
39	55.9	43.3	64.9
67	72.5	58.6	87.8
52	30.8	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
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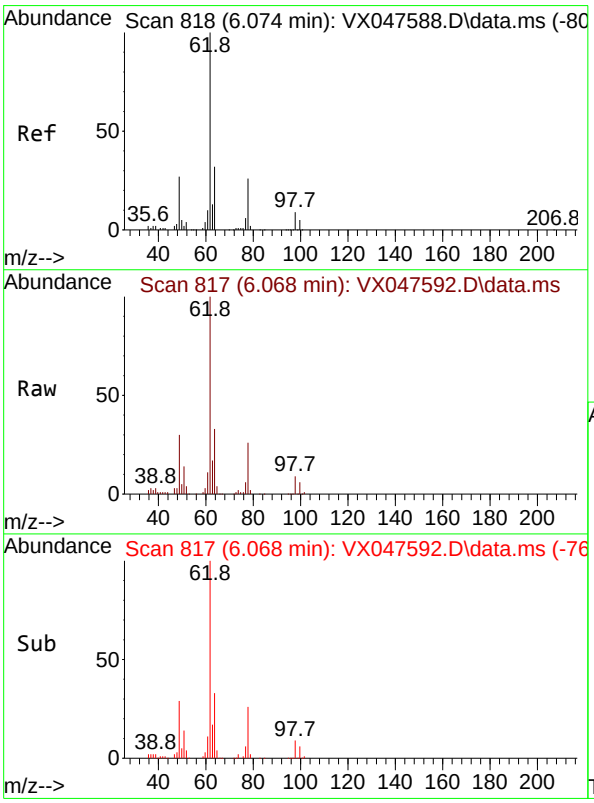
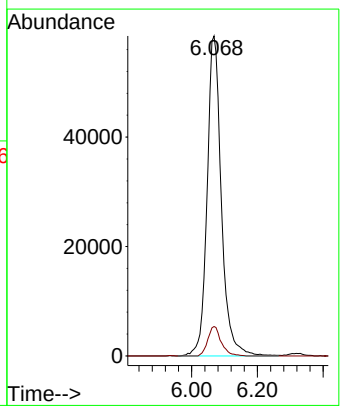
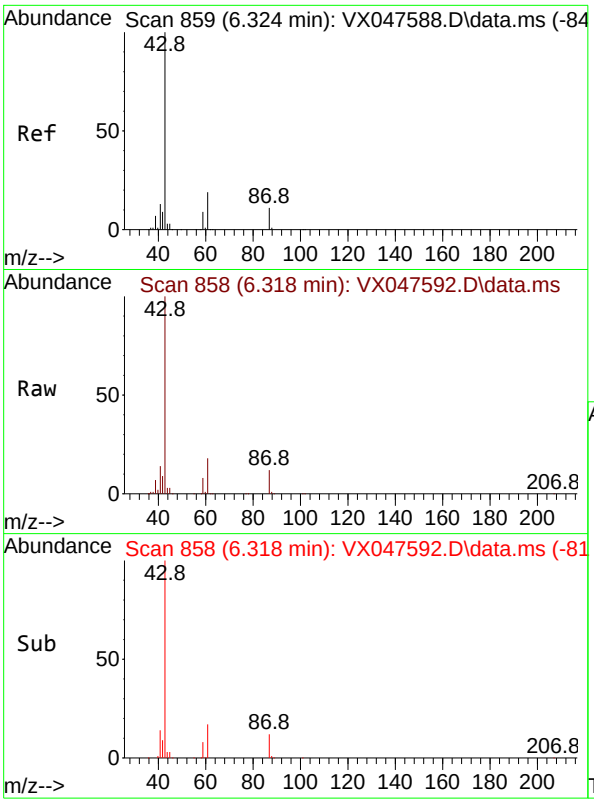


#42
1,2-Dichloroethane
Concen: 46.867 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 176131

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0

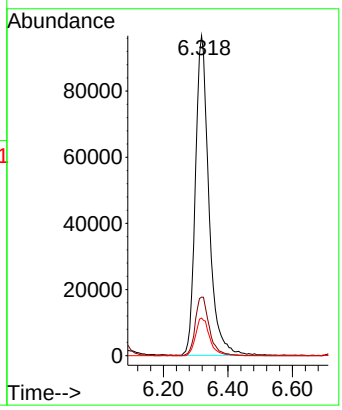




#43
Isopropyl Acetate
Concen: 49.136 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 28059

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.2	22.8
87	12.2	9.6	14.4



Instrument :
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ClientSampleId :
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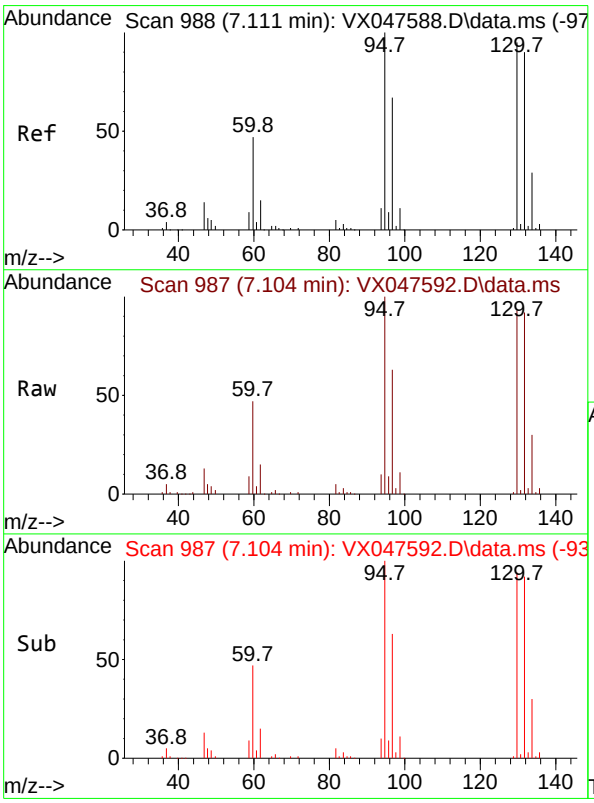
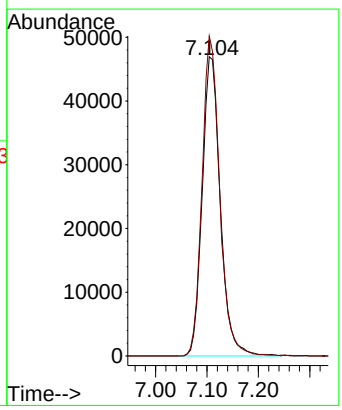
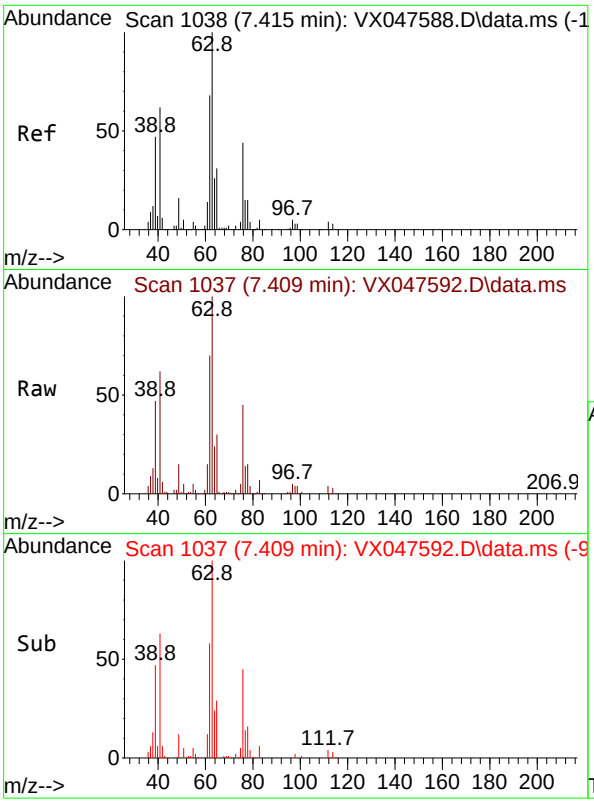


#44
Trichloroethene
Concen: 48.037 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:130 Resp: 114708

Ion	Ratio	Lower	Upper
130	100		
95	107.0	0.0	210.8

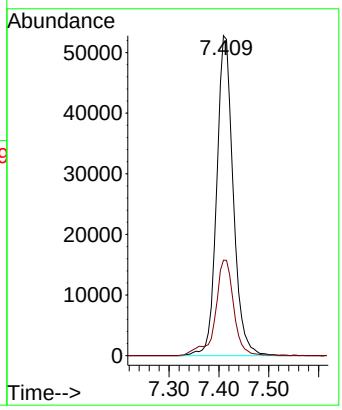




#45
1,2-Dichloropropane
Concen: 48.053 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 12153

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.7	37.1



Instrument :
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ClientSampleId :
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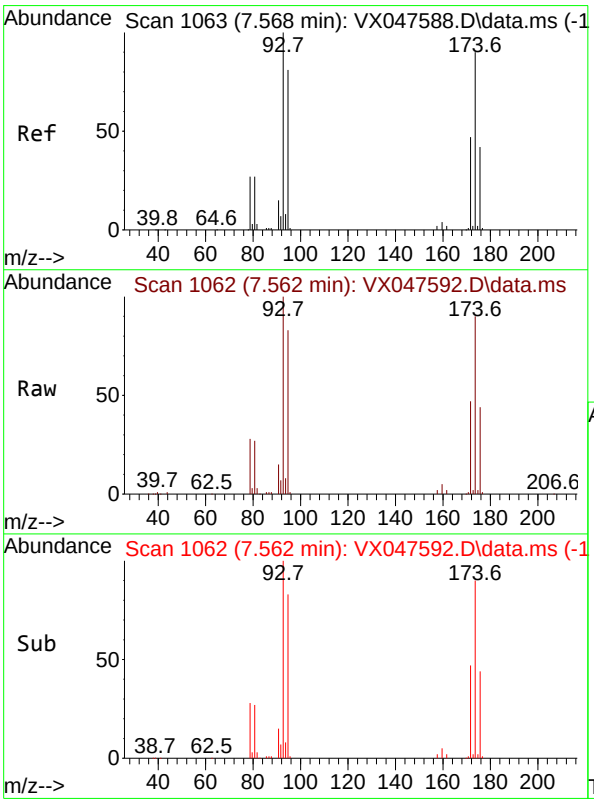
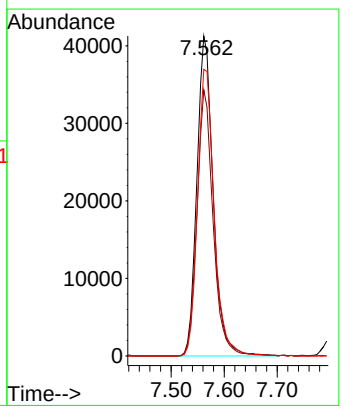
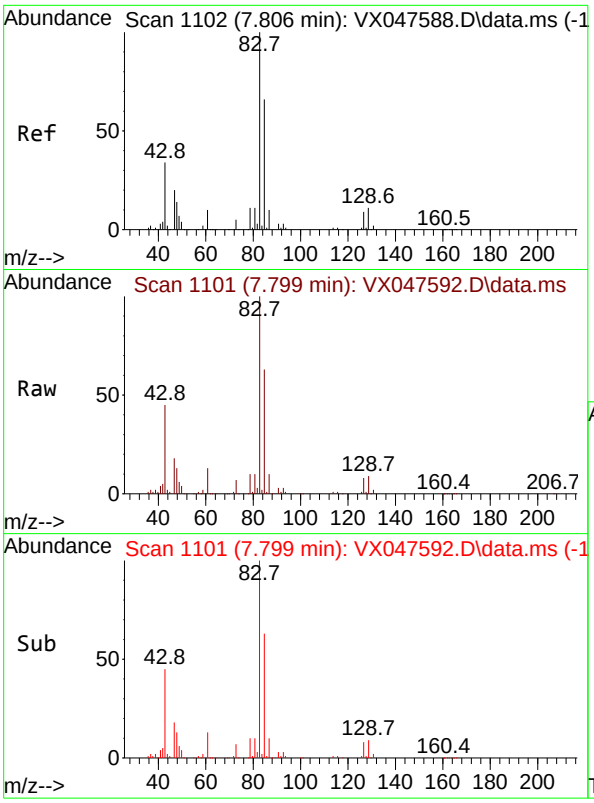


#46
Dibromomethane
Concen: 47.976 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 93 Resp: 88297

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.0	97.6
174	91.3	71.6	107.4

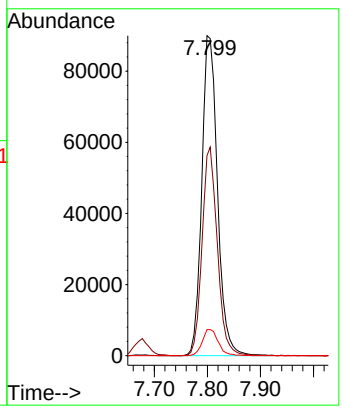




#47
Bromodichloromethane
Concen: 48.769 ug/l
RT: 7.799 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 18521

Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
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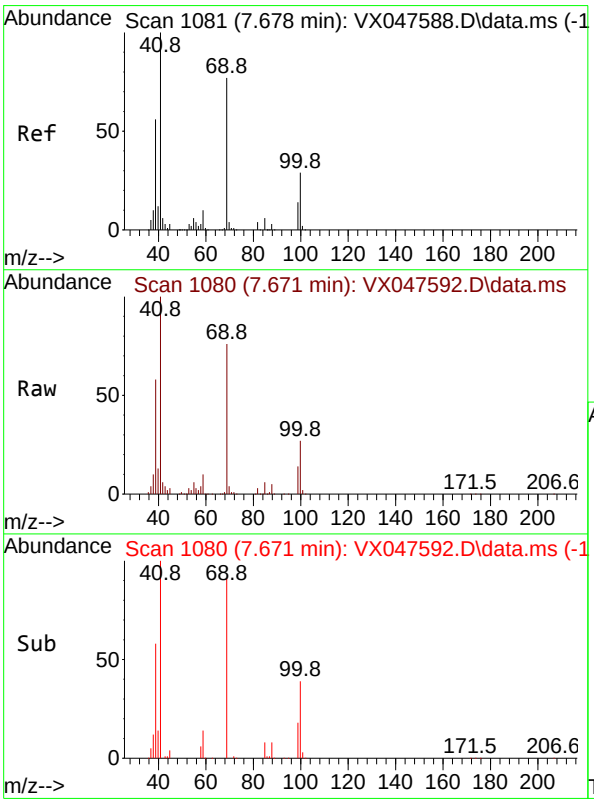
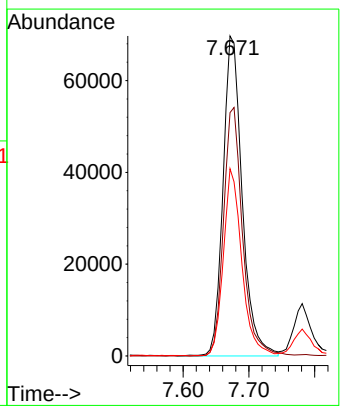
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

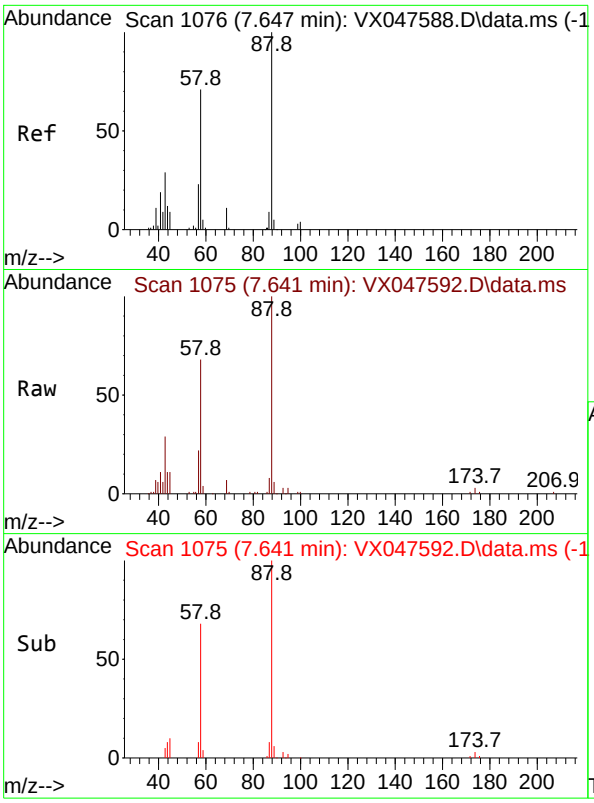


#48
Methyl methacrylate
Concen: 49.757 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 41 Resp: 141532

Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	56.4	45.8	68.6

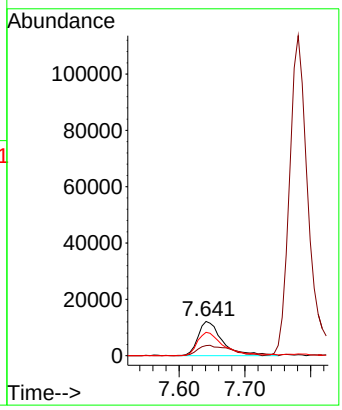




#49
1,4-Dioxane
Concen: 1089.520 ug/l
RT: 7.641 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 88 Resp: 3132

Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.2	45.2
58	74.1	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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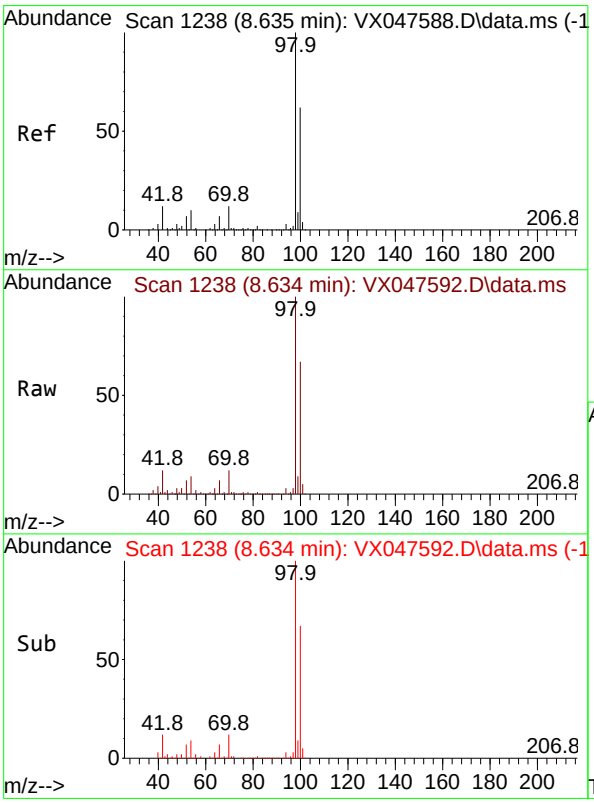
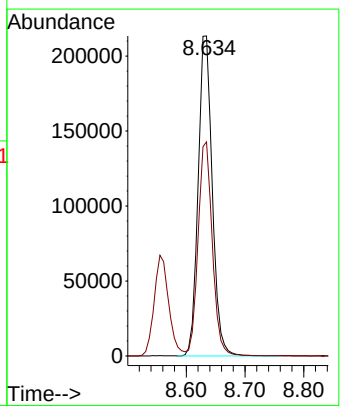
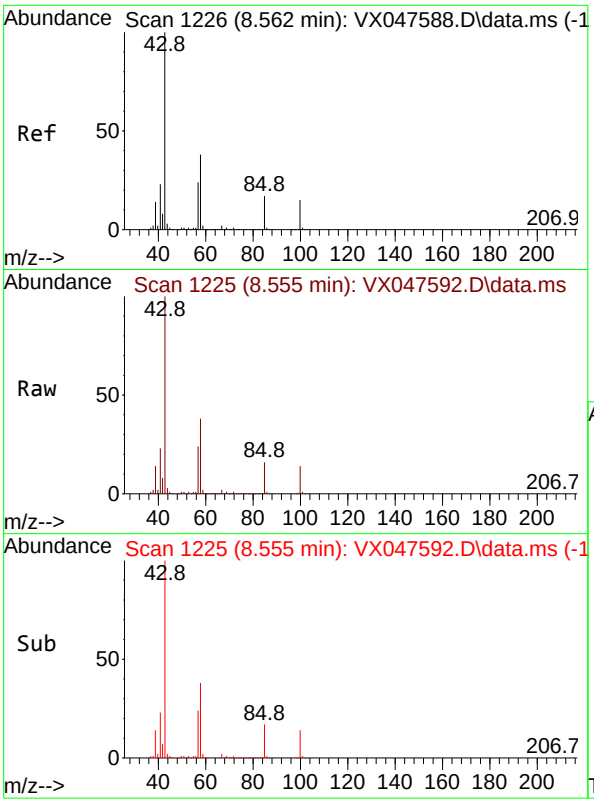


#50
Toluene-d8
Concen: 46.411 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 98 Resp: 357393

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4

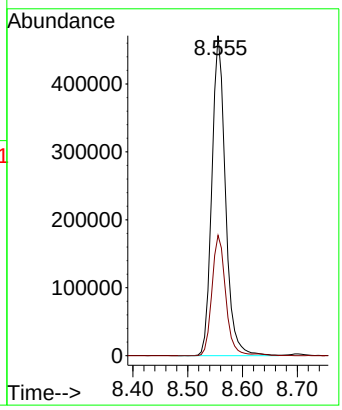




#51
4-Methyl-2-Pentanone
Concen: 255.752 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 80975

Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.3	45.5



Instrument :
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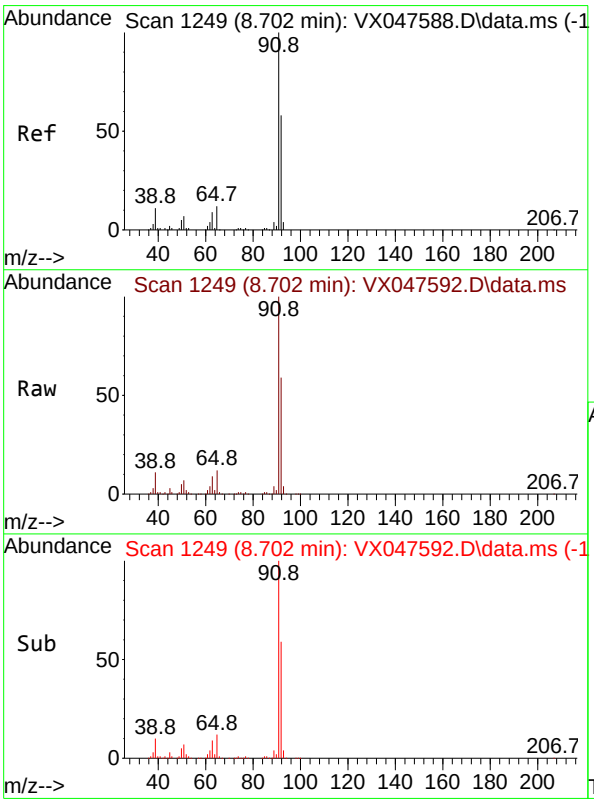
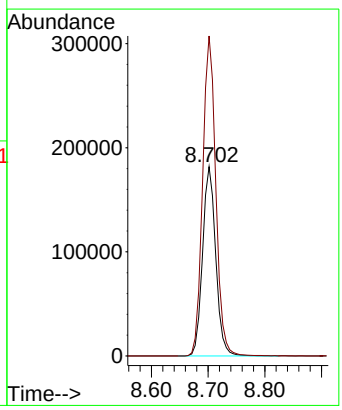
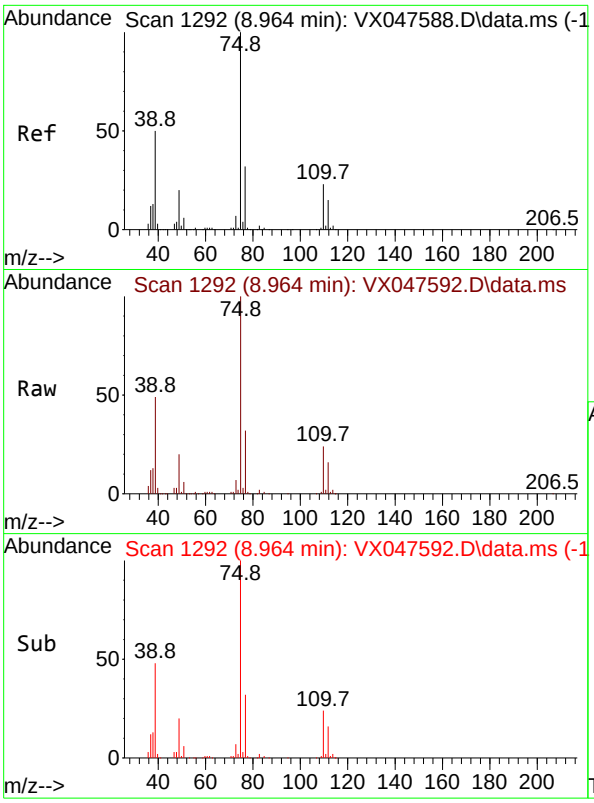


#52
Toluene
Concen: 48.130 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 92 Resp: 292879

Ion	Ratio	Lower	Upper
92	100		
91	169.4	137.1	205.7

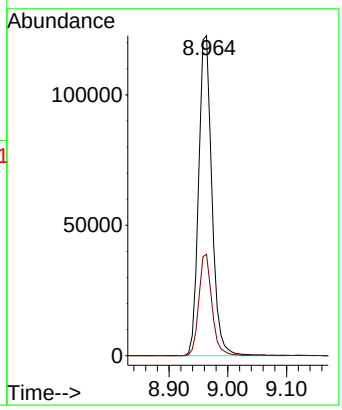




#53
t-1,3-Dichloropropene
Concen: 49.527 ug/l
RT: 8.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 19186

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.2



Instrument :
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ClientSampleId :
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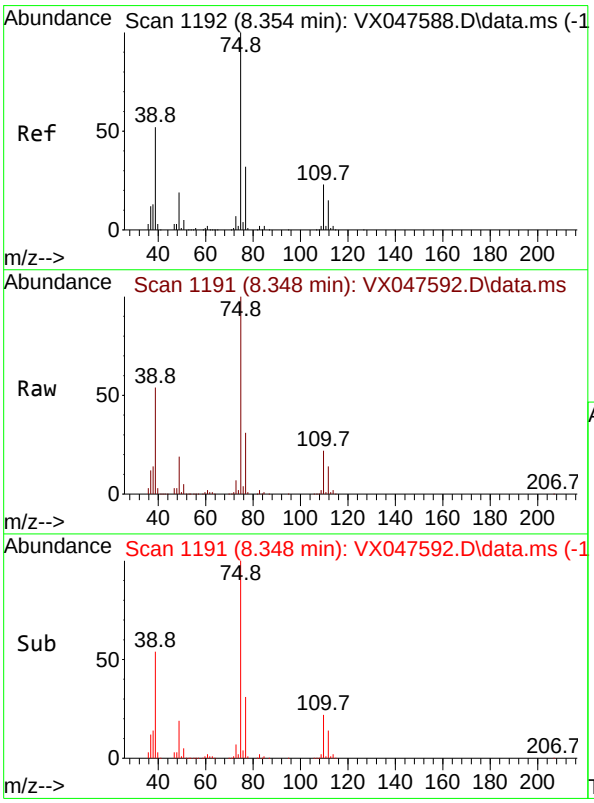
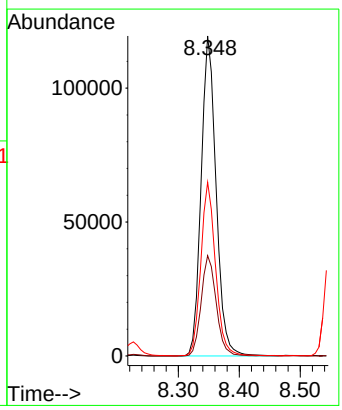
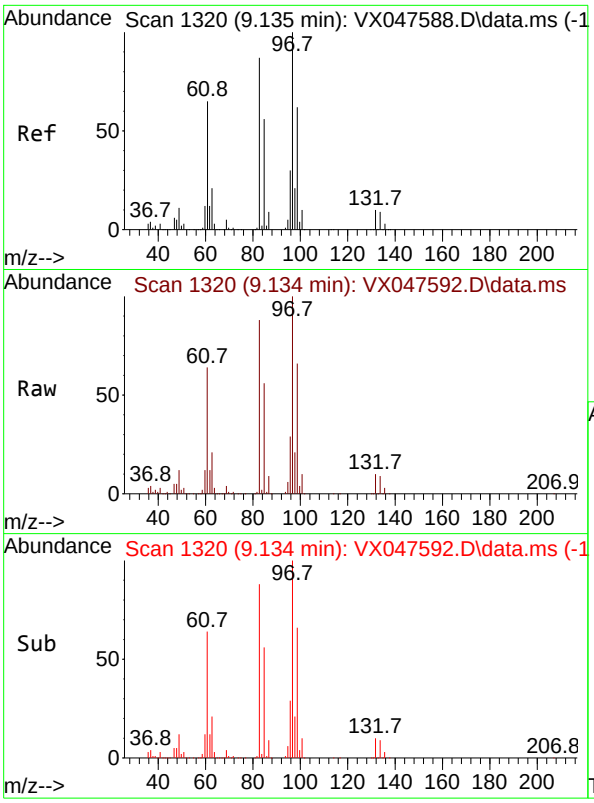


#54
cis-1,3-Dichloropropene
Concen: 49.257 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 203954

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.8	38.6
39	54.2	41.4	62.2

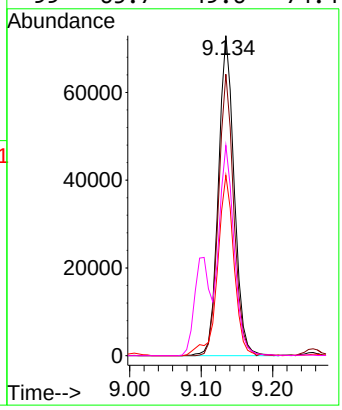




#55
1,1,2-Trichloroethane
Concen: 47.772 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 11209

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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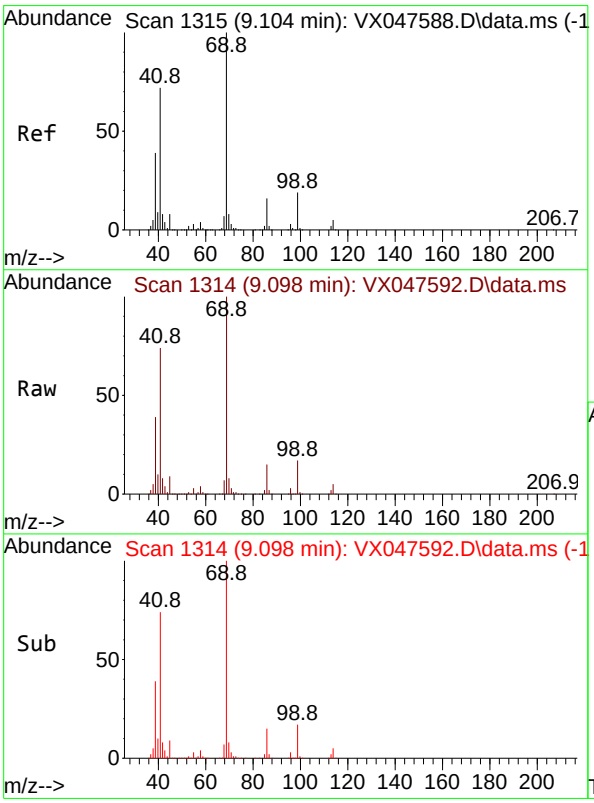
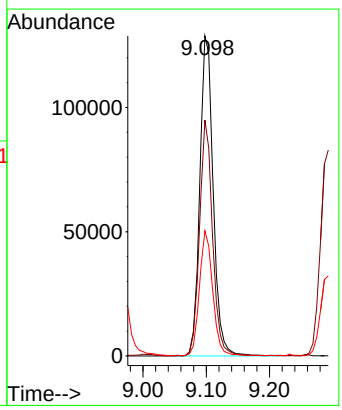
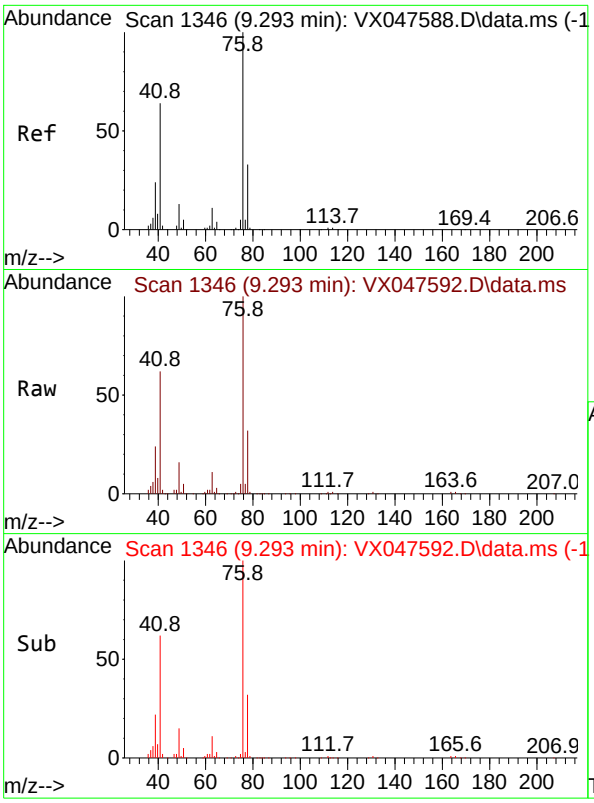


#56
Ethyl methacrylate
Concen: 51.490 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 69 Resp: 189741

Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3

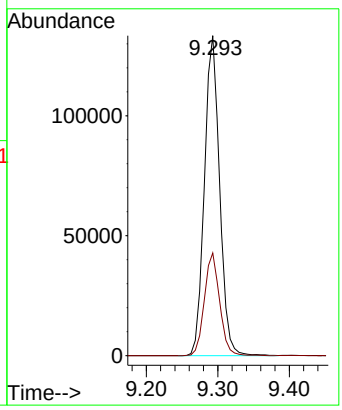




#57
1,3-Dichloropropane
Concen: 48.894 ug/l
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 76 Resp: 19707

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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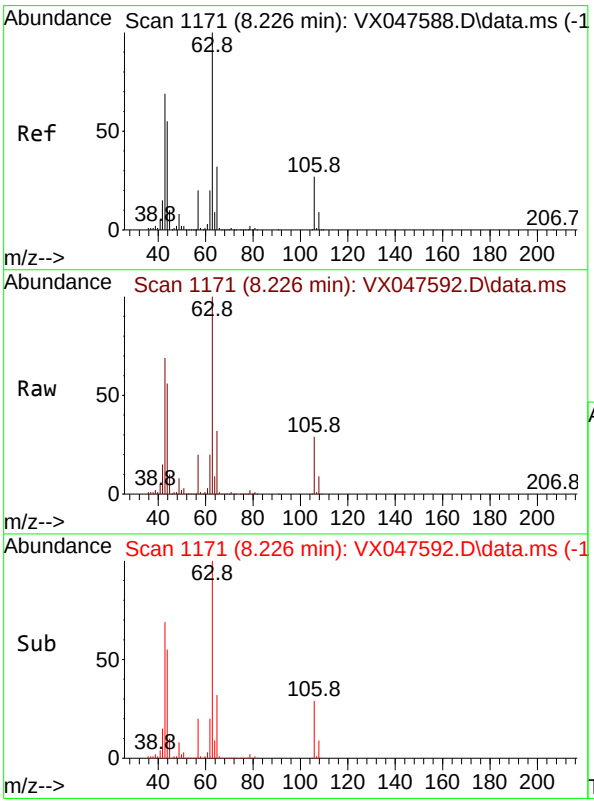
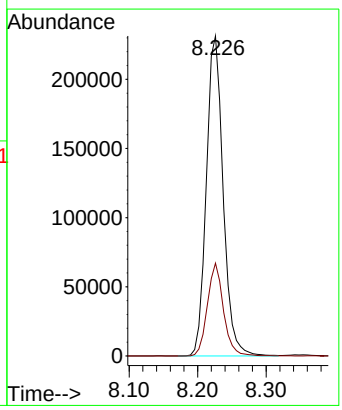
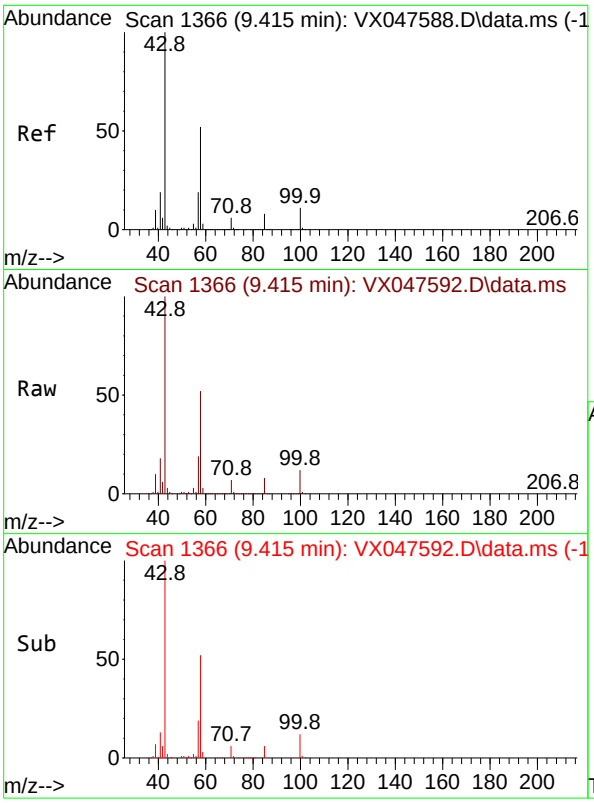


#58
2-Chloroethyl Vinyl ether
Concen: 225.562 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 394205

Ion	Ratio	Lower	Upper
63	100		
106	27.8	21.9	32.9





#59
2-Hexanone
Concen: 253.126 ug/l
RT: 9.415 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 57559

Ion	Ratio	Lower	Upper
43	100		
58	52.6	26.1	78.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
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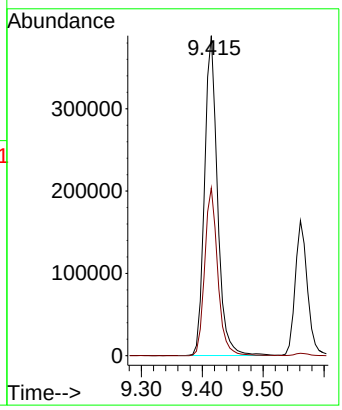
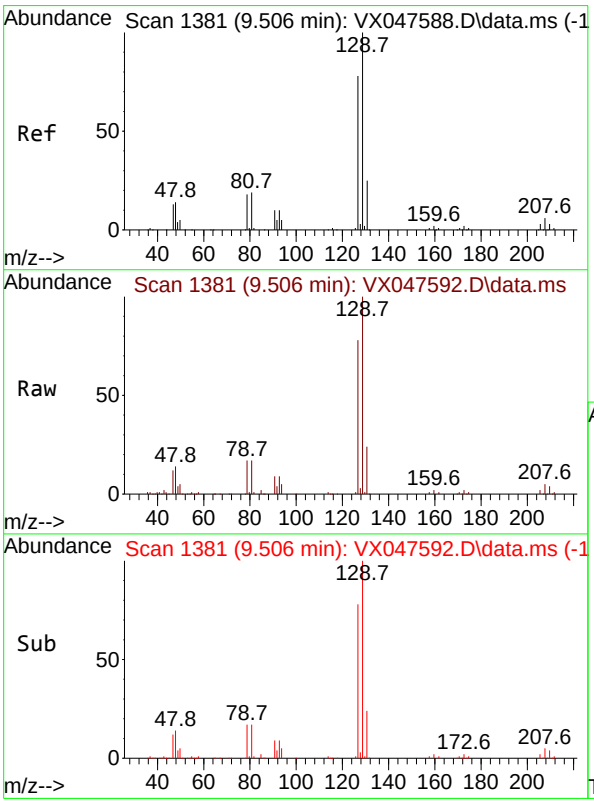
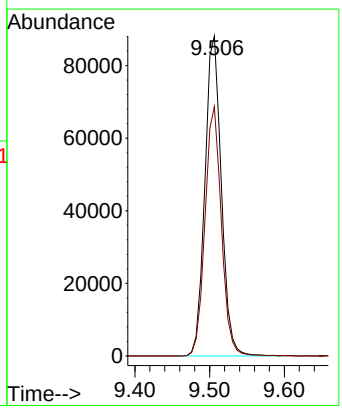


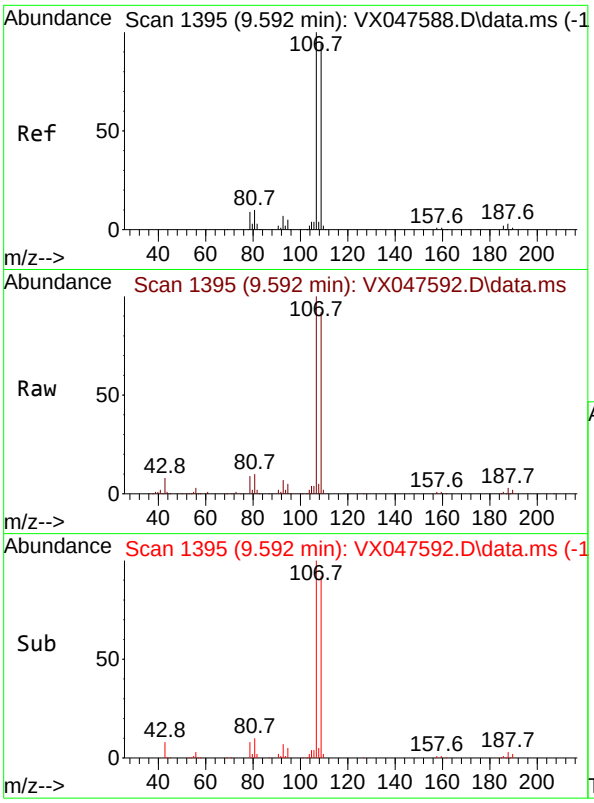


#60
Dibromochloromethane
Concen: 49.824 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:129 Resp: 134704

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.4	115.2

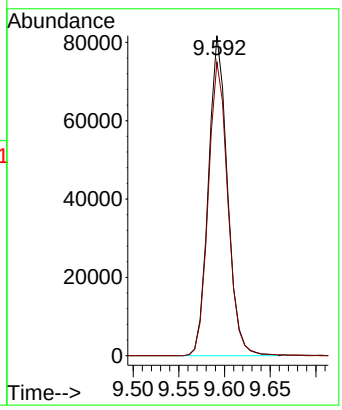




#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:107 Resp: 11781

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.3	112.9



Instrument :
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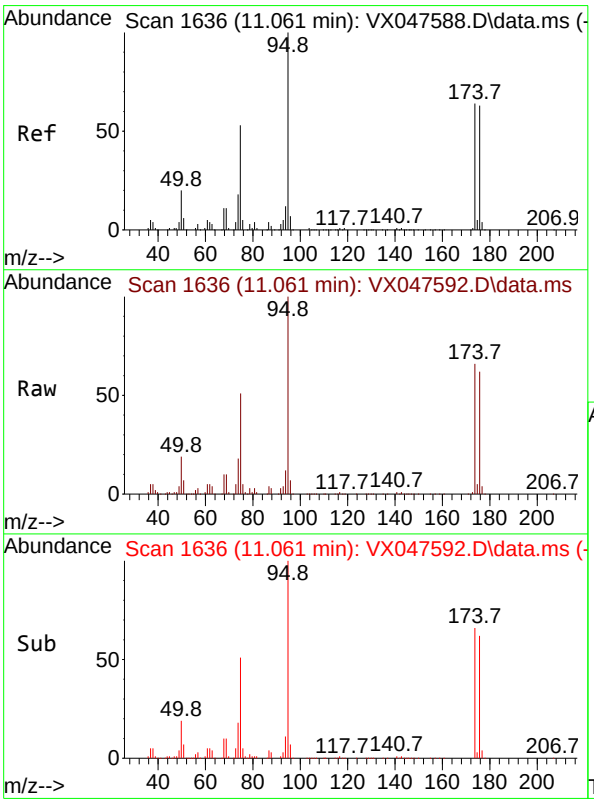
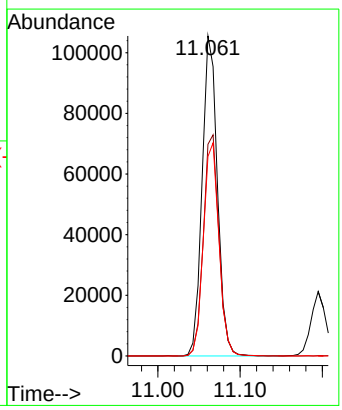
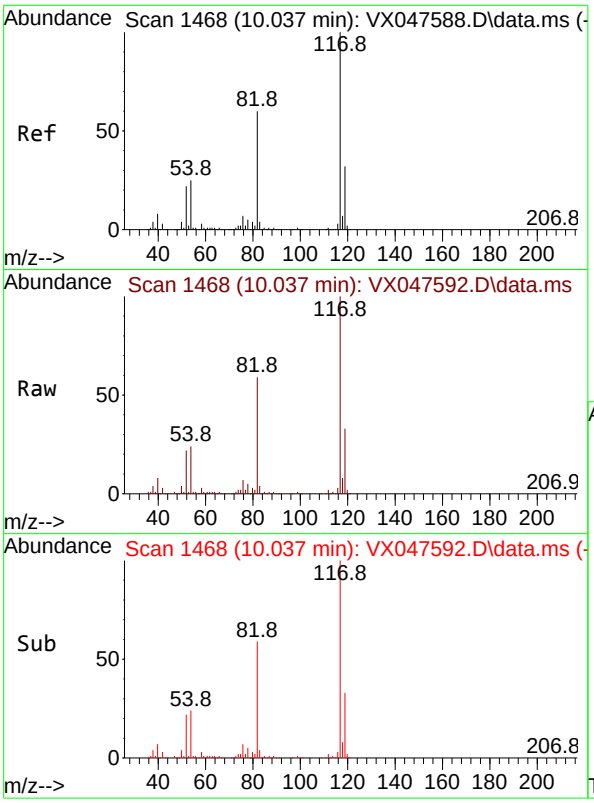


#62
4-Bromofluorobenzene
Concen: 46.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 95 Resp: 135957

Ion	Ratio	Lower	Upper
95	100		
174	70.3	0.0	141.6
176	68.0	0.0	138.4

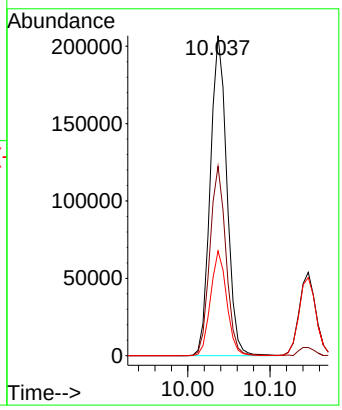




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 28866

Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.6
119	32.7	25.2	37.8



Instrument :
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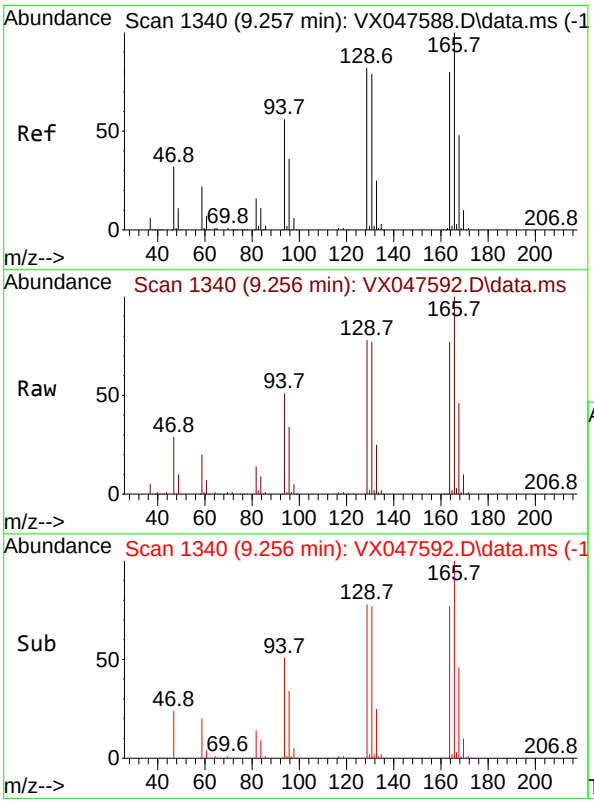
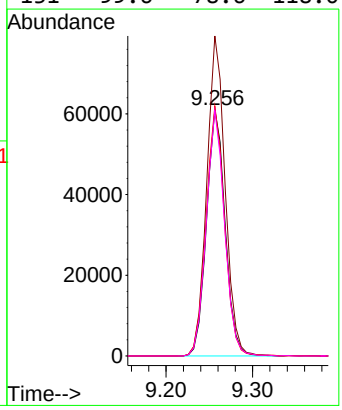
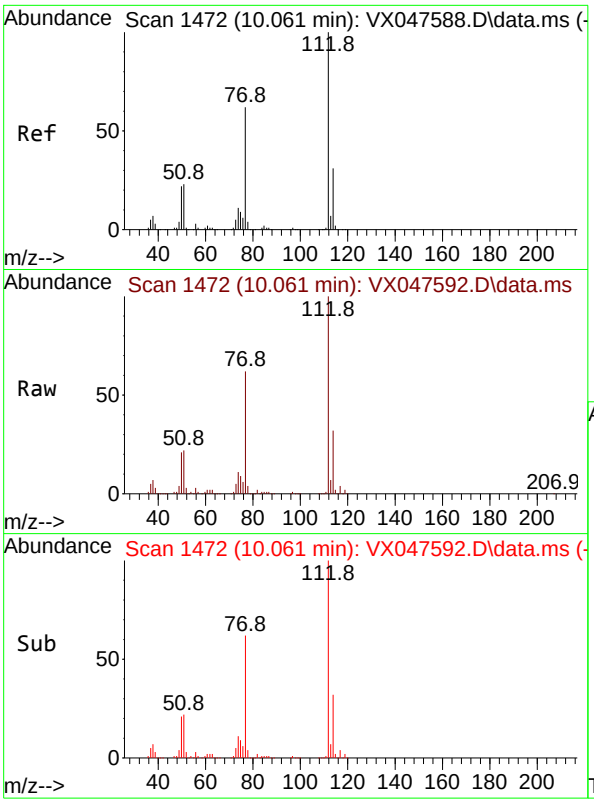


#64
Tetrachloroethene
Concen: 48.296 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:164 Resp: 90881

Ion	Ratio	Lower	Upper
164	100		
166	129.8	100.2	150.2
129	101.3	81.8	122.6
131	99.6	78.6	118.0

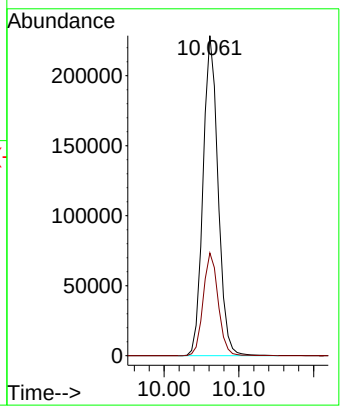




#65
Chlorobenzene
Concen: 48.549 ug/l
RT: 10.061 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:112 Resp: 31837

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
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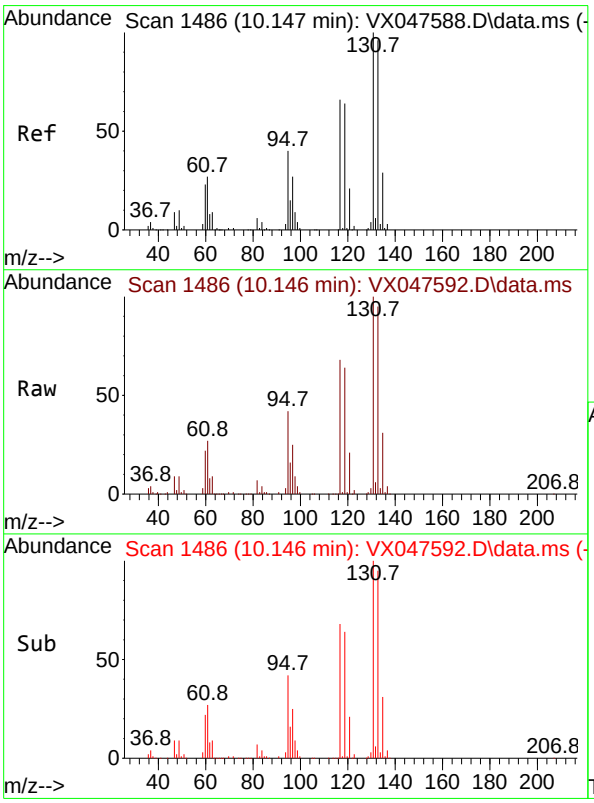
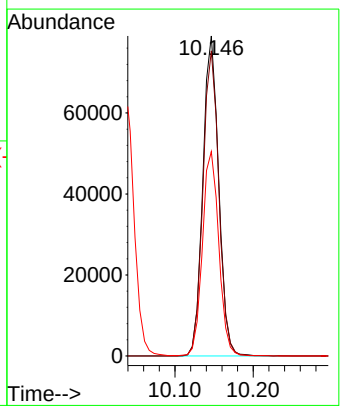
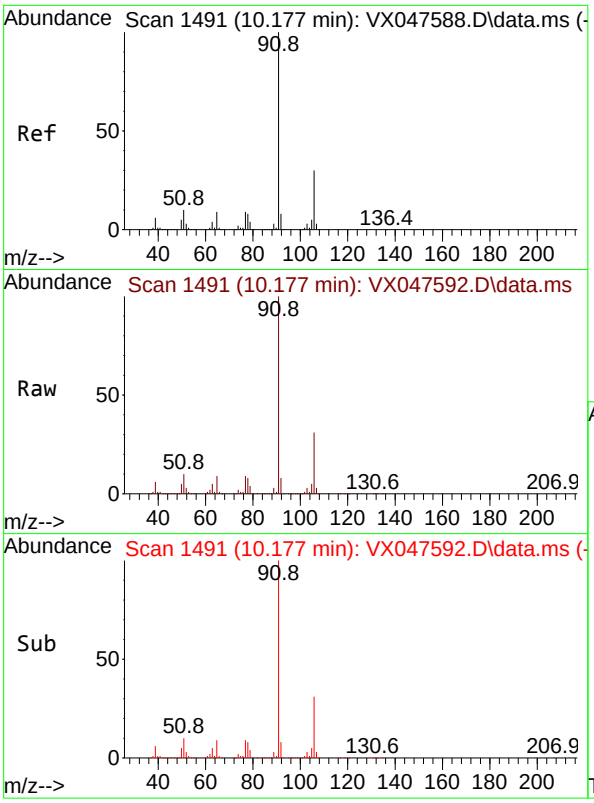


#66
1,1,1,2-Tetrachloroethane
Concen: 48.794 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:131 Resp: 110416

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	142.0
119	66.3	32.0	96.0

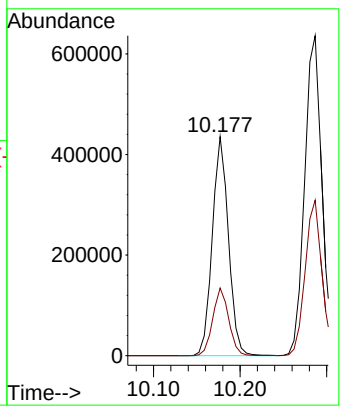




#67
Ethyl Benzene
Concen: 49.813 ug/l
RT: 10.177 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 56363

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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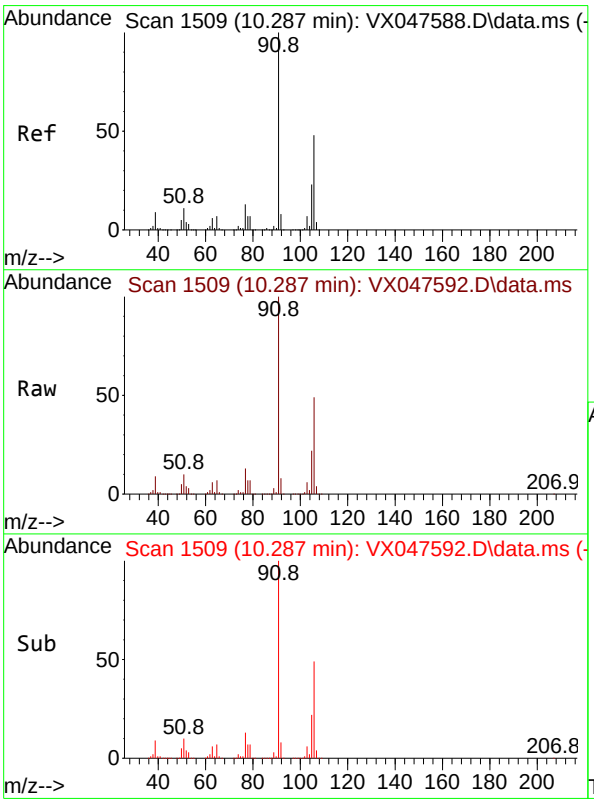
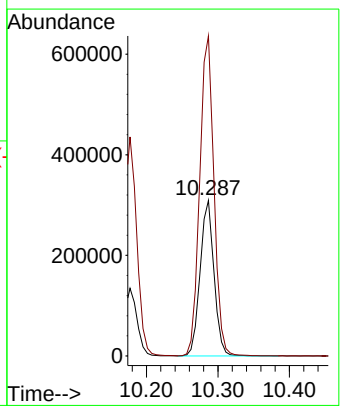
Supervised By :Mahesh Dadoda 09/18/2025

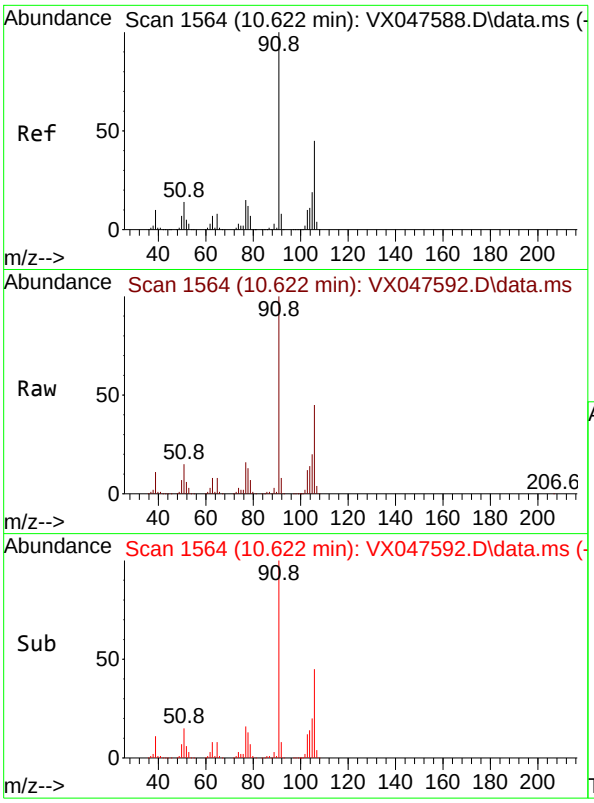


#68
m/p-Xylenes
Concen: 98.956 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 416757

Ion	Ratio	Lower	Upper
106	100		
91	211.1	167.8	251.8

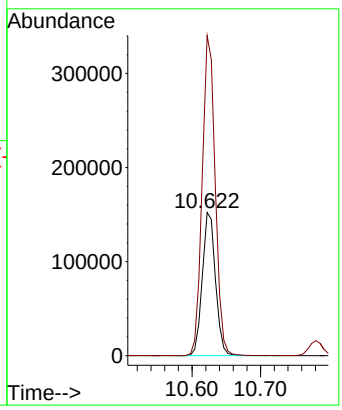




#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:106 Resp: 20432

Ion	Ratio	Lower	Upper
106	100		
91	221.0	111.1	333.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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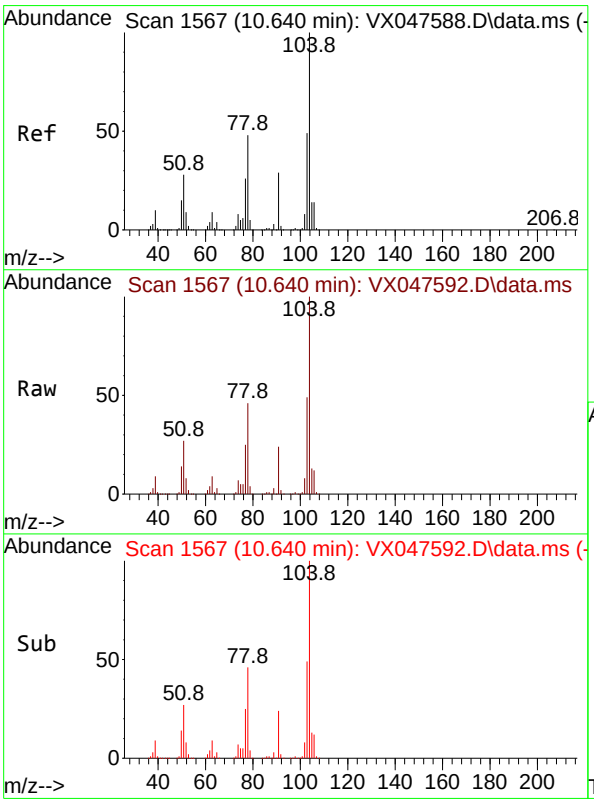
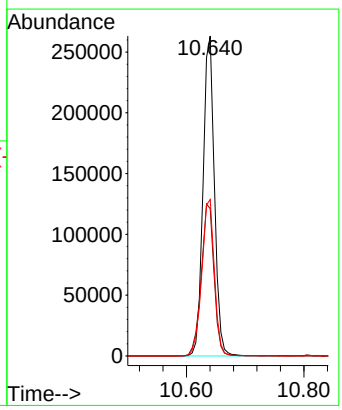
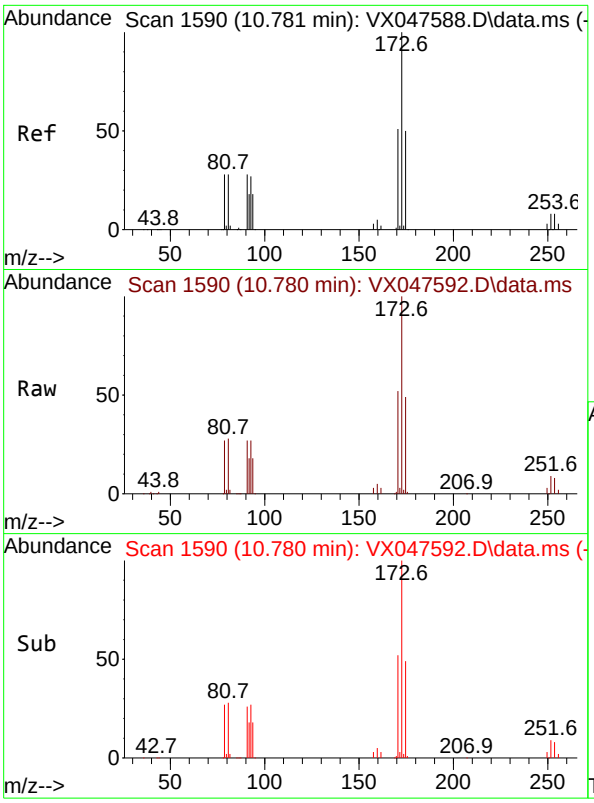


#70
Styrene
Concen: 49.536 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:104 Resp: 353567

Ion	Ratio	Lower	Upper
104	100		
78	53.4	43.1	64.7
103	54.3	43.1	64.7

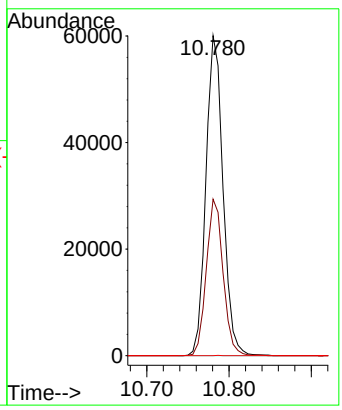




#71
Bromoform
Concen: 51.207 ug/l
RT: 10.780 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:173 Resp: 8652

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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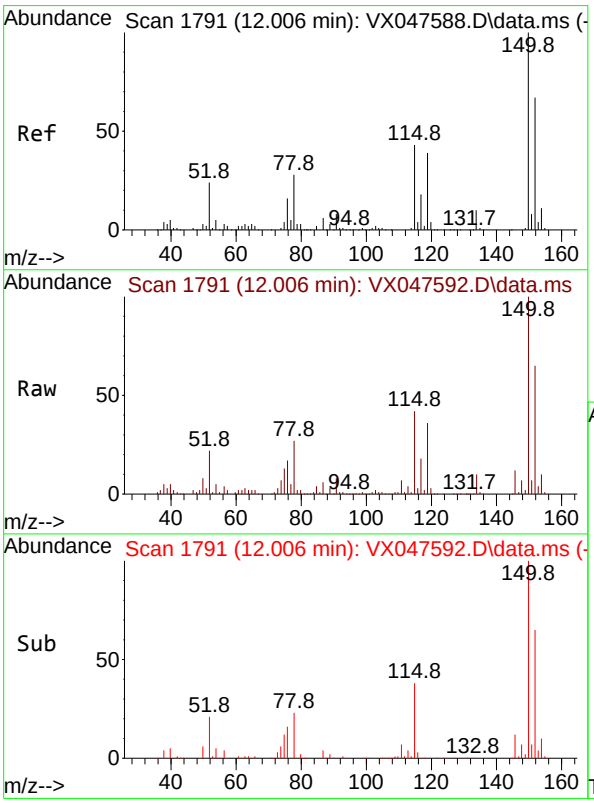
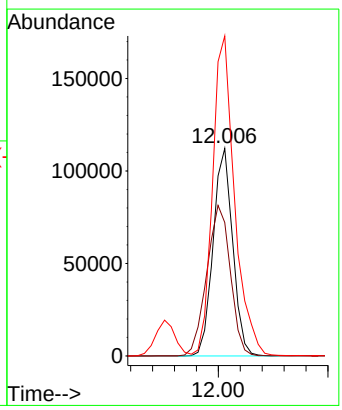
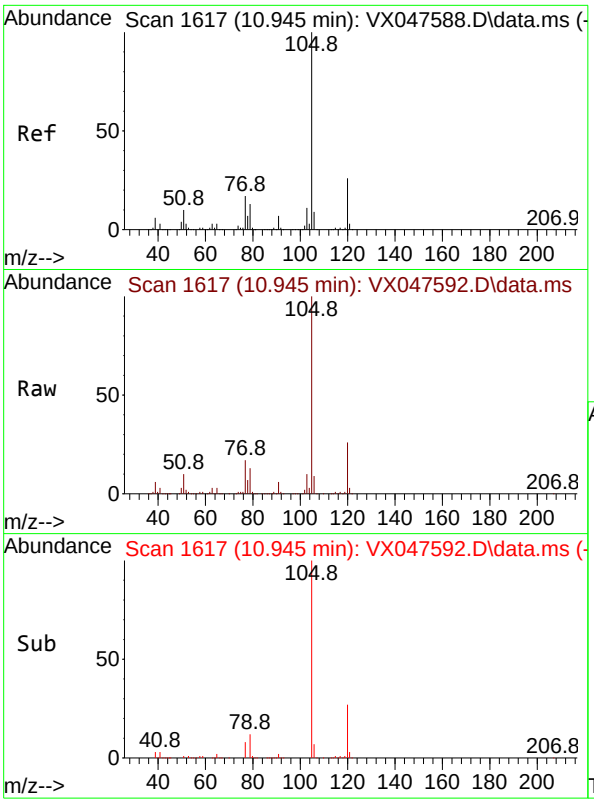


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:152 Resp: 139252

Ion	Ratio	Lower	Upper
152	100		
115	87.5	44.9	134.5
150	173.5	0.0	352.0

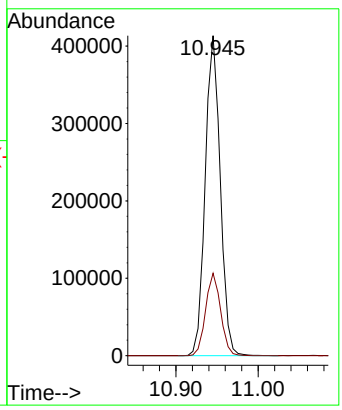




#73
Isopropylbenzene
Concen: 49.479 ug/l
RT: 10.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 52382

Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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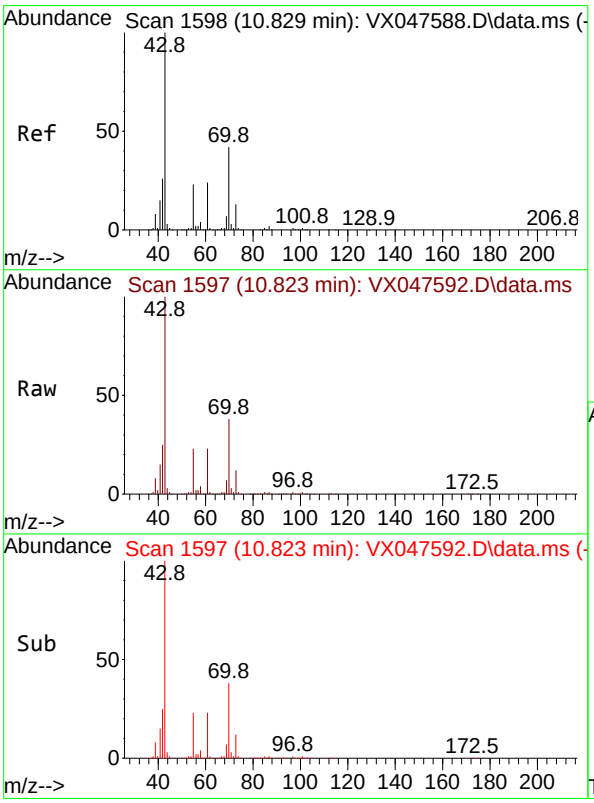
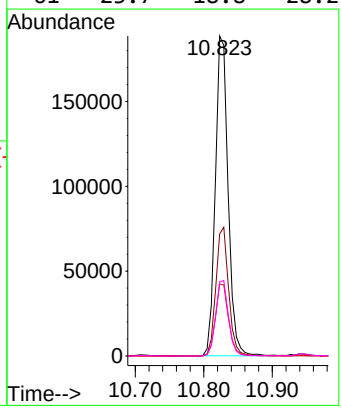
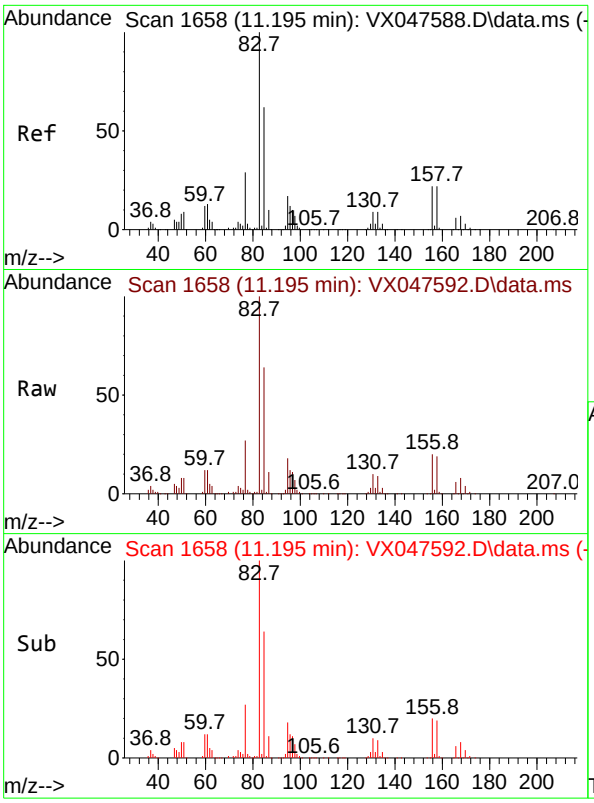


#74
N-amyl acetate
Concen: 50.375 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 243198

Ion	Ratio	Lower	Upper
43	100		
70	40.2	32.0	48.0
55	23.2	18.9	28.3
61	23.7	18.8	28.2

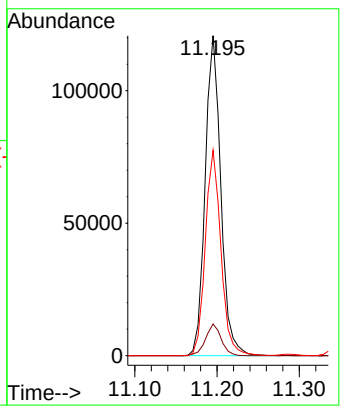




#75
1,1,2,2-Tetrachloroethane
Concen: 49.851 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 83 Resp: 15967

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.2	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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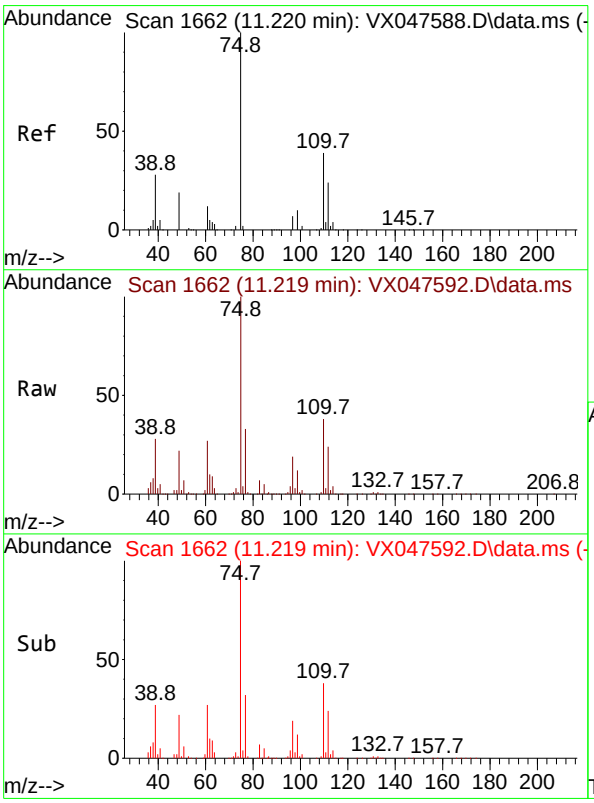
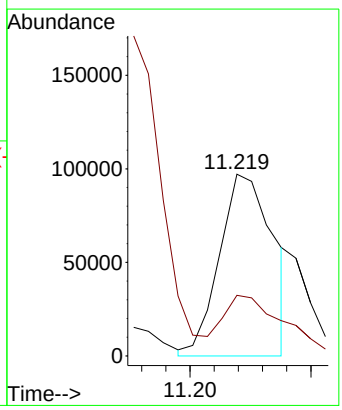
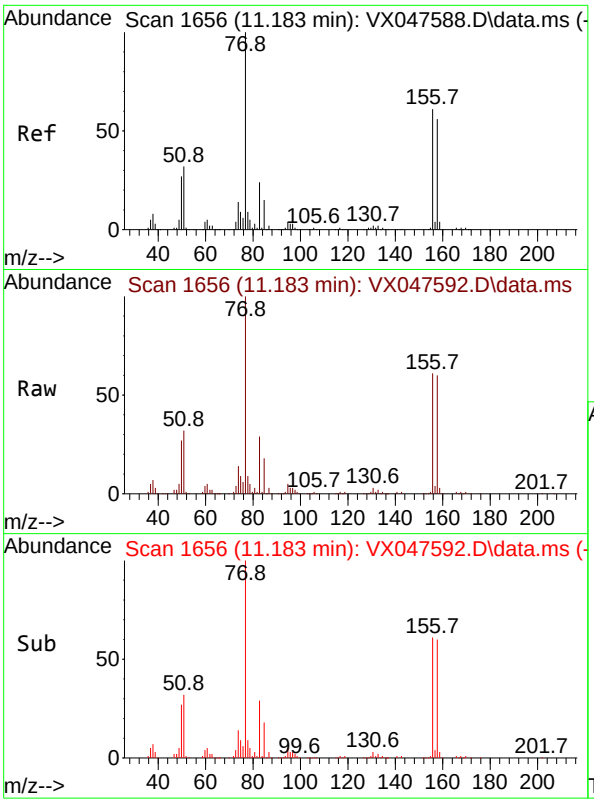


#76
1,2,3-Trichloropropane
Concen: 53.124 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 149779

Ion	Ratio	Lower	Upper
75	100		
77	38.0	18.8	56.4

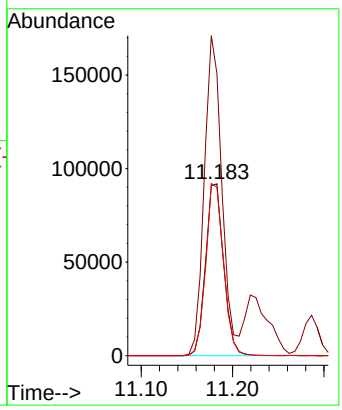




#77
Bromobenzene
Concen: 48.173 ug/l
RT: 11.183 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:156 Resp: 12561

Ion	Ratio	Lower	Upper
156	100		
77	182.2	89.7	269.1
158	99.0	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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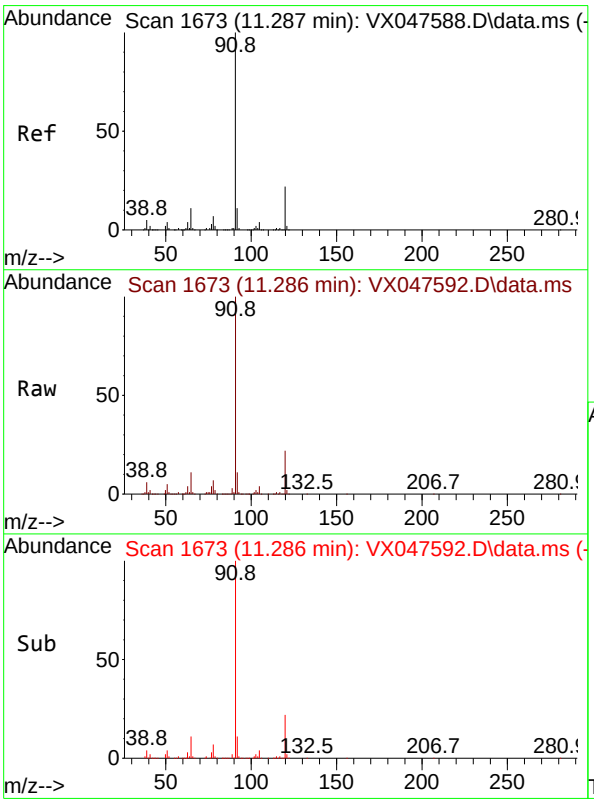
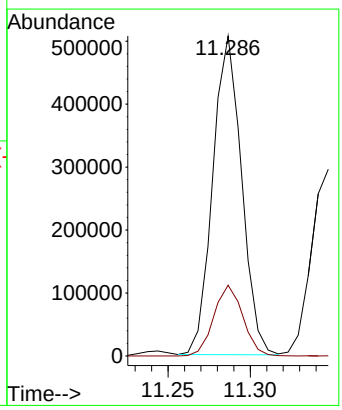
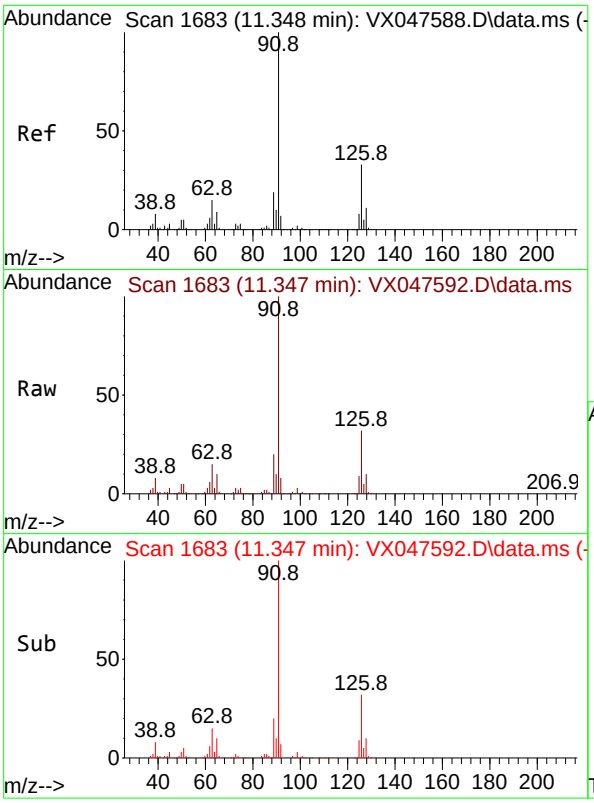


#78
n-propylbenzene
Concen: 49.295 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 616928

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1

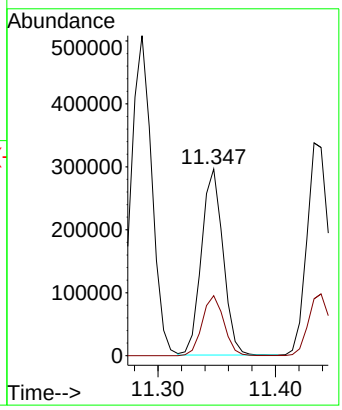




#79
2-Chlorotoluene
Concen: 49.117 ug/l
RT: 11.347 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 37648

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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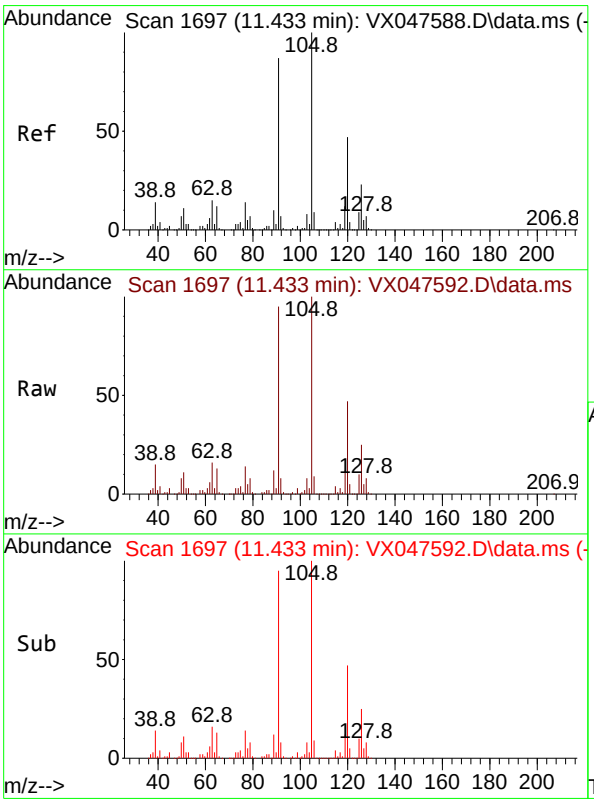
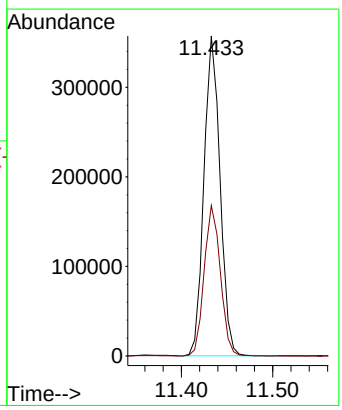
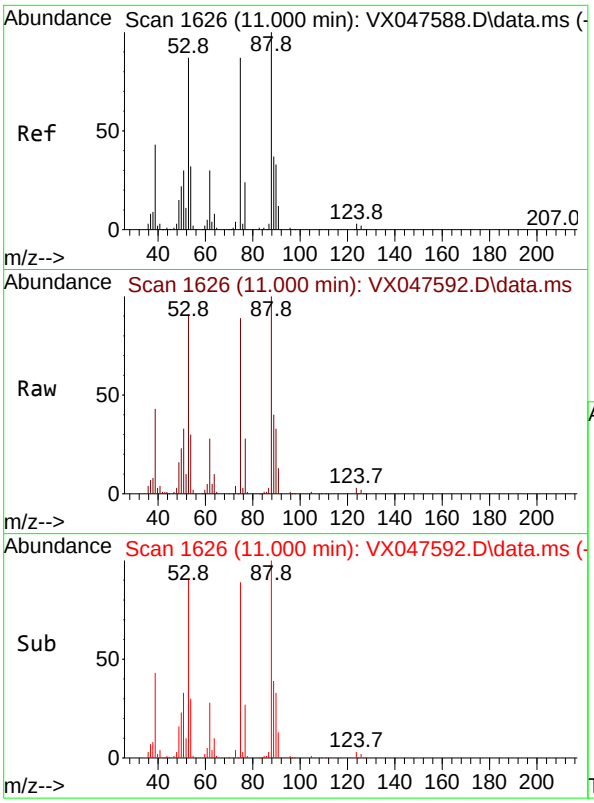


#80
1,3,5-Trimethylbenzene
Concen: 50.055 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 435375

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.6	70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 50.543 ug/l
RT: 11.000 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 5588

Ion	Ratio	Lower	Upper
75	100		
53	103.4	83.4	125.2
89	45.4	36.3	54.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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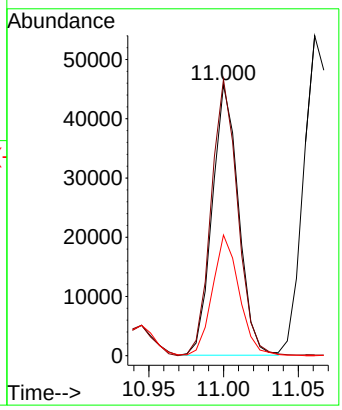
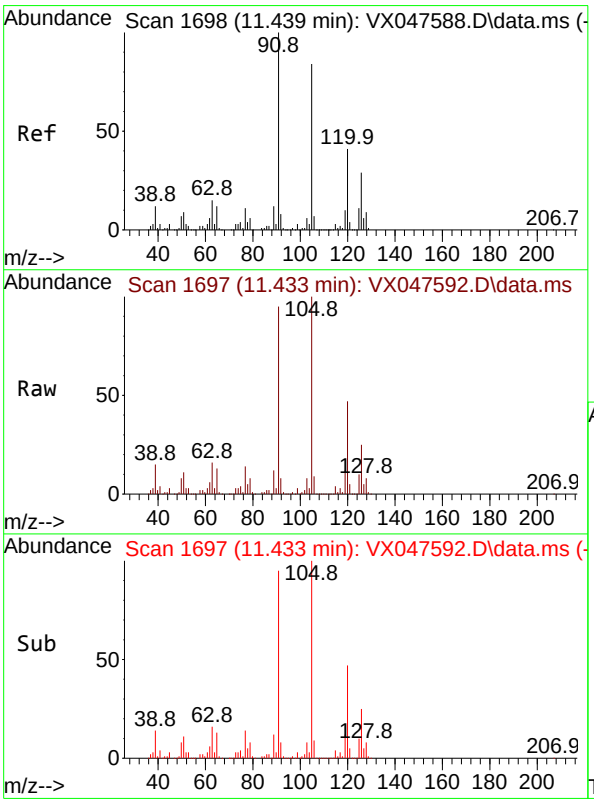
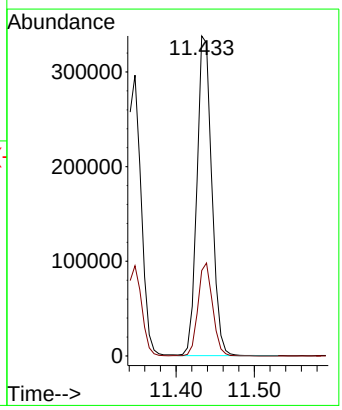


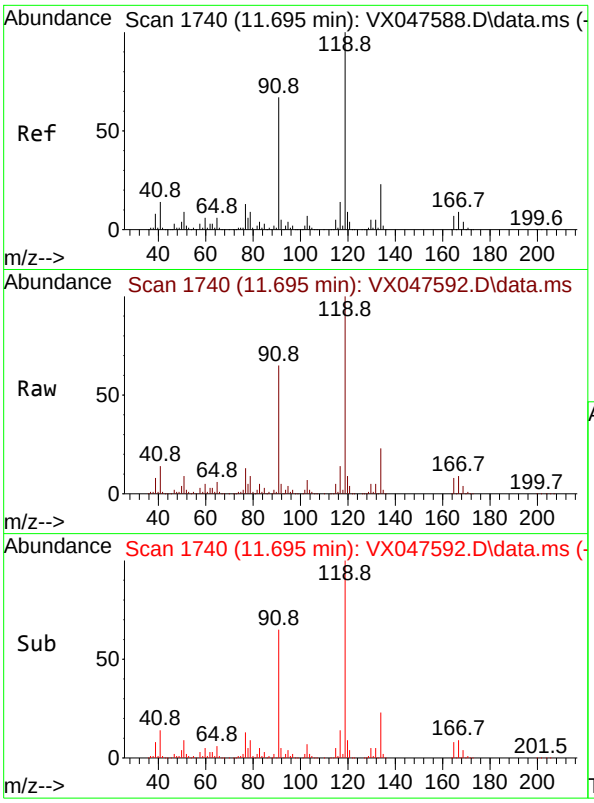


#82
4-Chlorotoluene
Concen: 49.164 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 445075

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

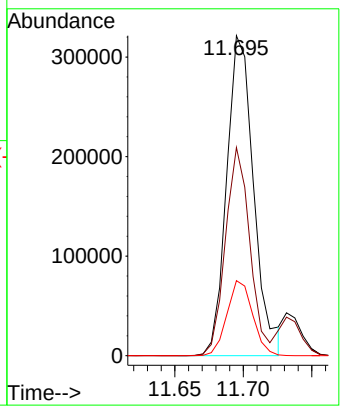




#83
tert-Butylbenzene
Concen: 49.679 ug/l
RT: 11.695 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 44234

Ion	Ratio	Lower	Upper
119	100		
91	58.7	29.6	88.8
134	22.3	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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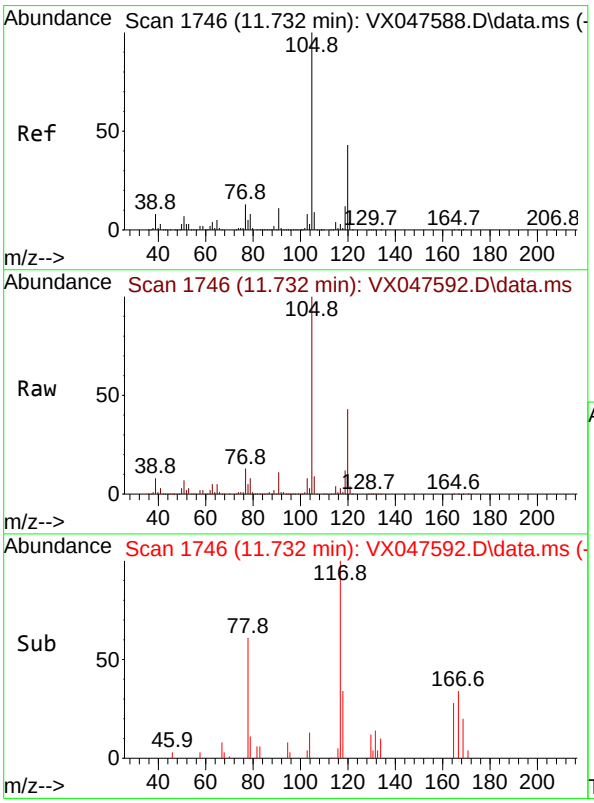
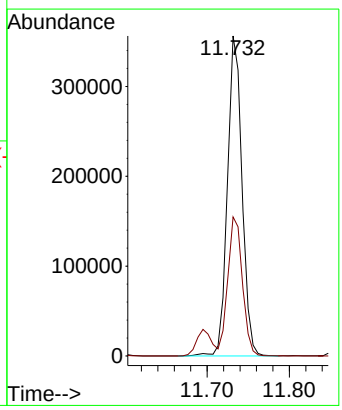
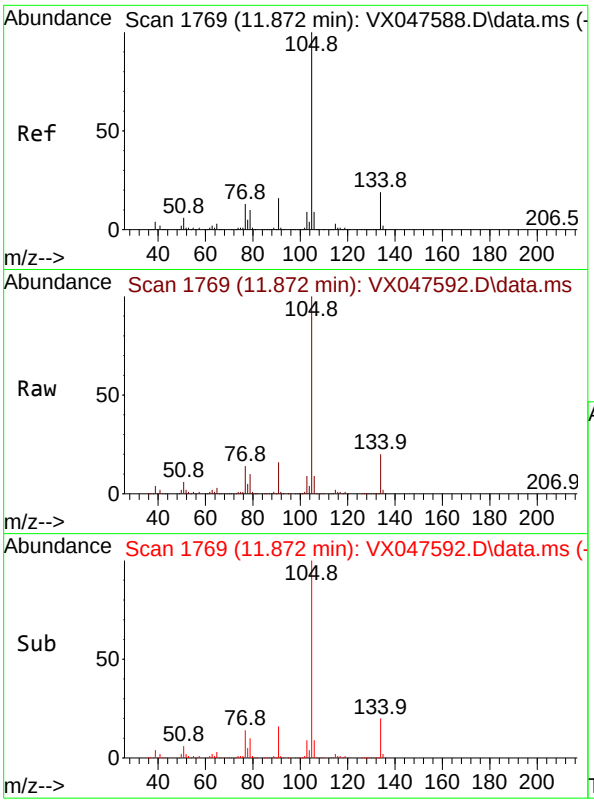


#84
1,2,4-Trimethylbenzene
Concen: 49.911 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 440134

Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.1

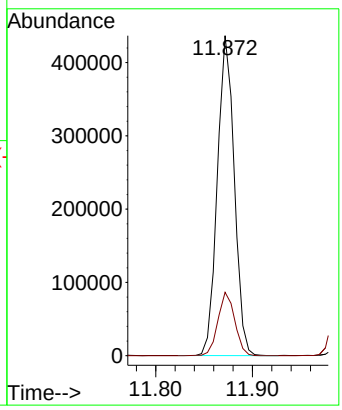




#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:105 Resp: 52986

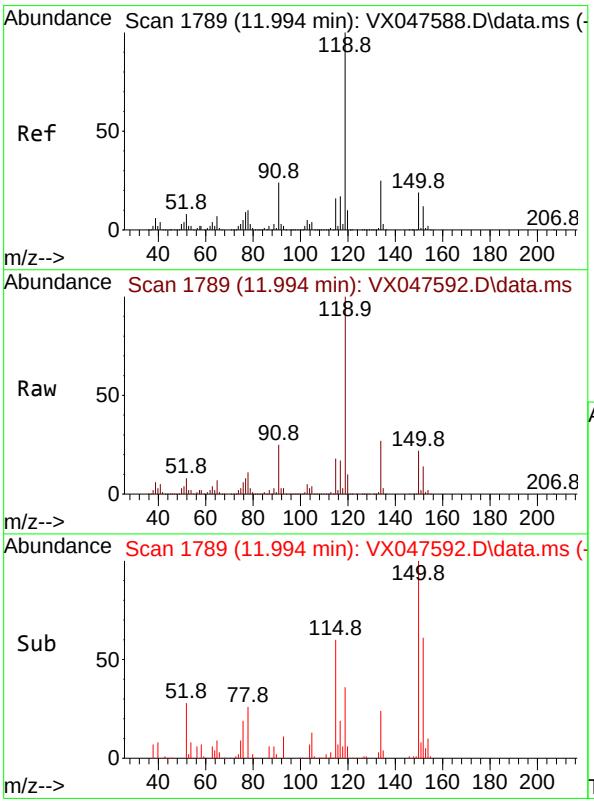
Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

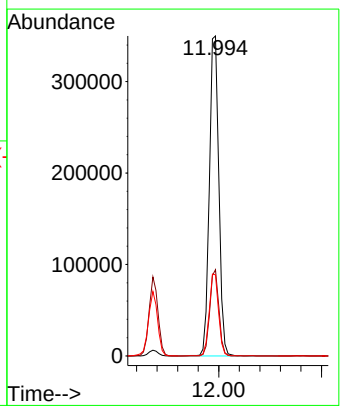
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

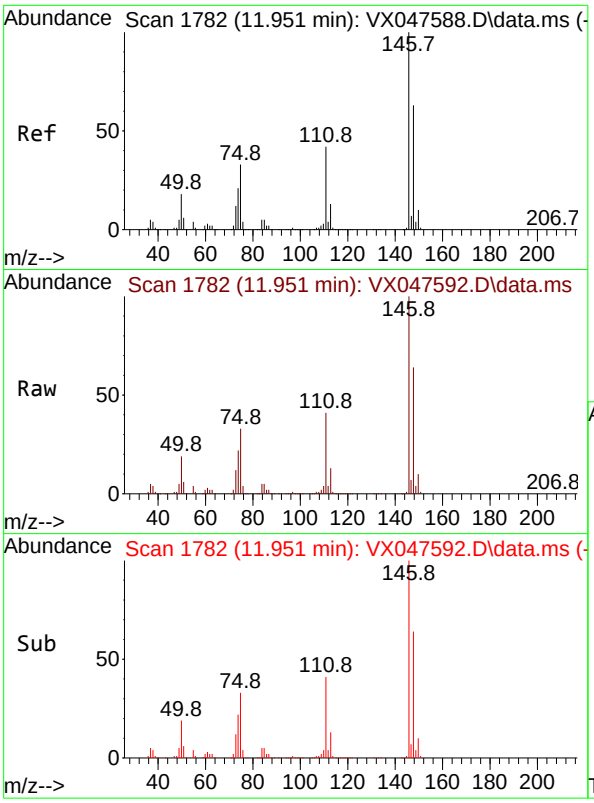


#86
p-Isopropyltoluene
Concen: 49.861 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:119 Resp: 446441

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	25.4	12.6	37.6

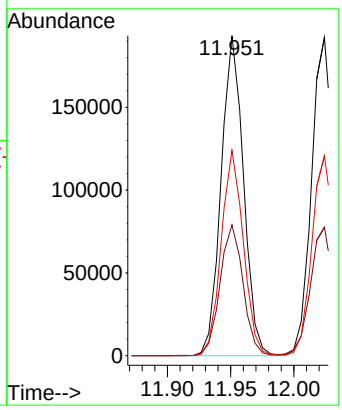




#87
1,3-Dichlorobenzene
Concen: 49.014 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 23738

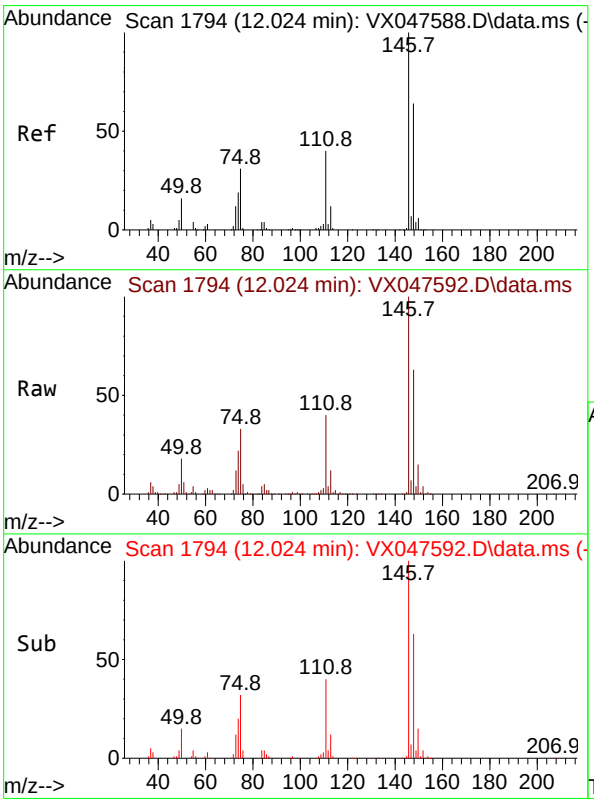
Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.5	64.5
148	63.5	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

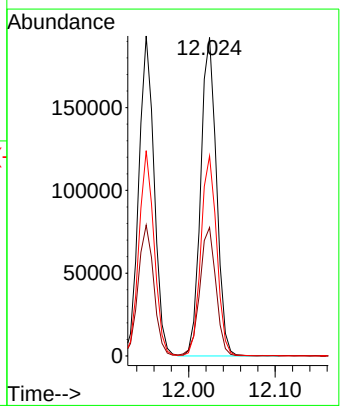
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

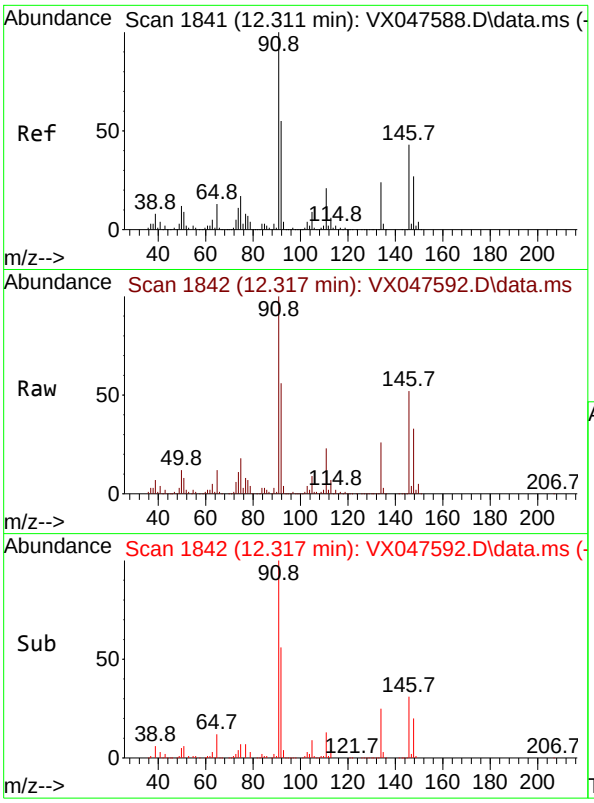


#88
1,4-Dichlorobenzene
Concen: 49.011 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 243618

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.8	62.4
148	62.7	31.7	95.1

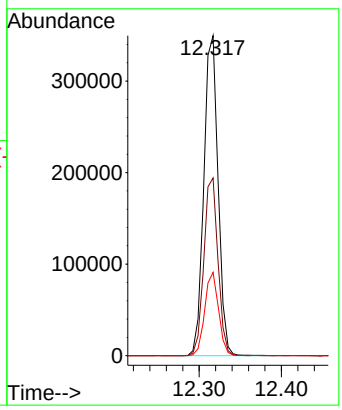




#89
n-Butylbenzene
Concen: 50.752 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 91 Resp: 42047

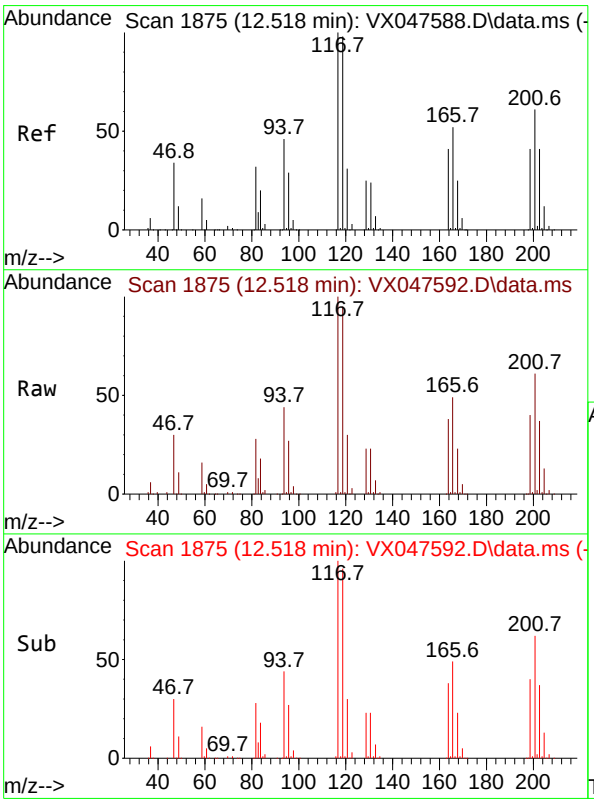
Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.6	82.7
134	25.3	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

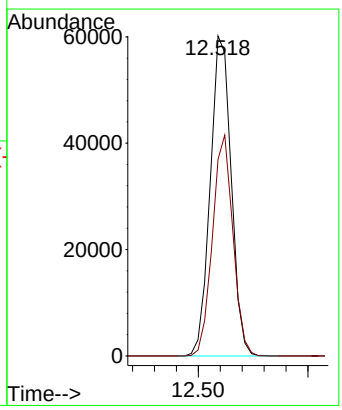
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

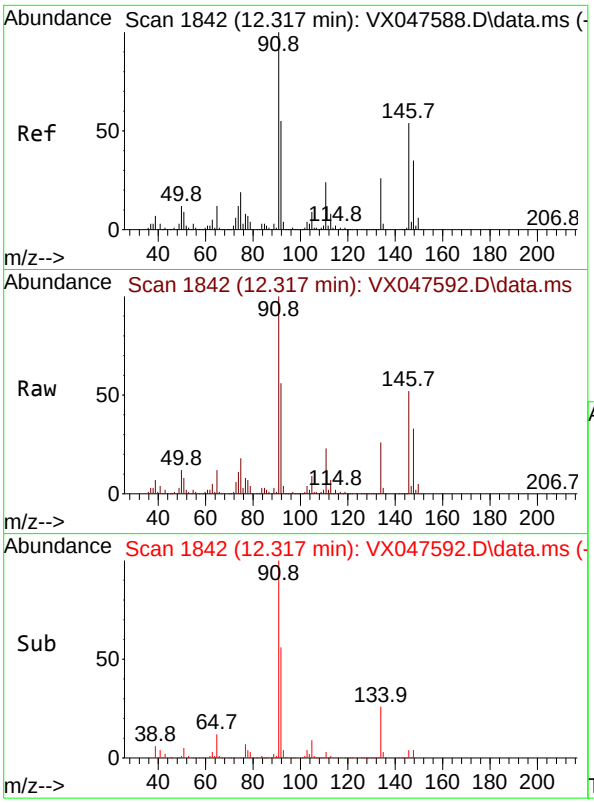


#90
Hexachloroethane
Concen: 50.732 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:117 Resp: 79751

Ion	Ratio	Lower	Upper
117	100		
201	67.7	34.2	102.5

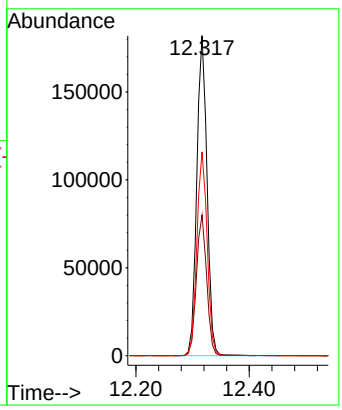




#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:146 Resp: 22749

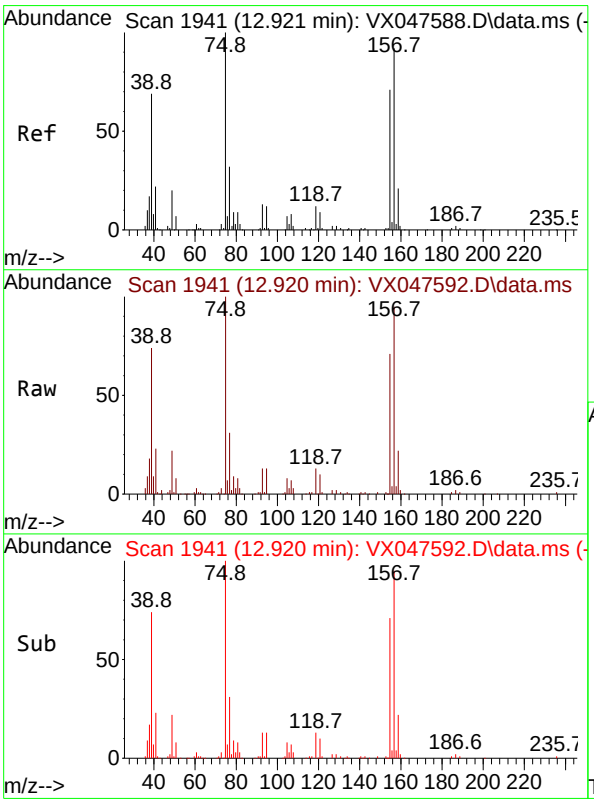
Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	64.1	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

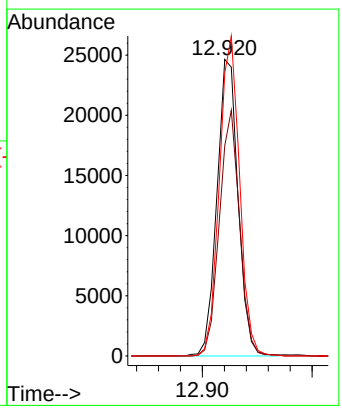
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

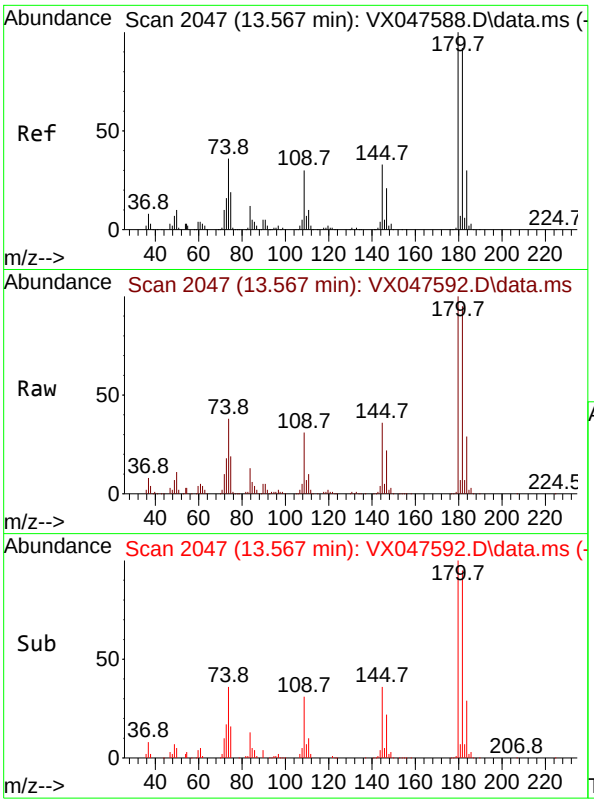


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.918 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 33020

Ion	Ratio	Lower	Upper
75	100		
155	79.1	37.7	113.1
157	103.2	49.8	149.4

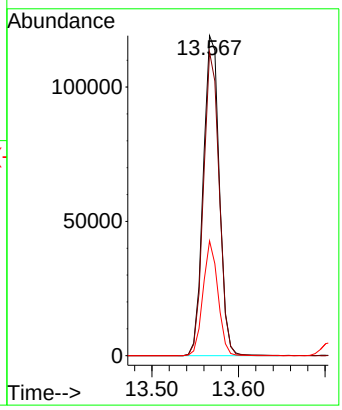




#93
1,2,4-Trichlorobenzene
Concen: 51.133 ug/l
RT: 13.567 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 15333

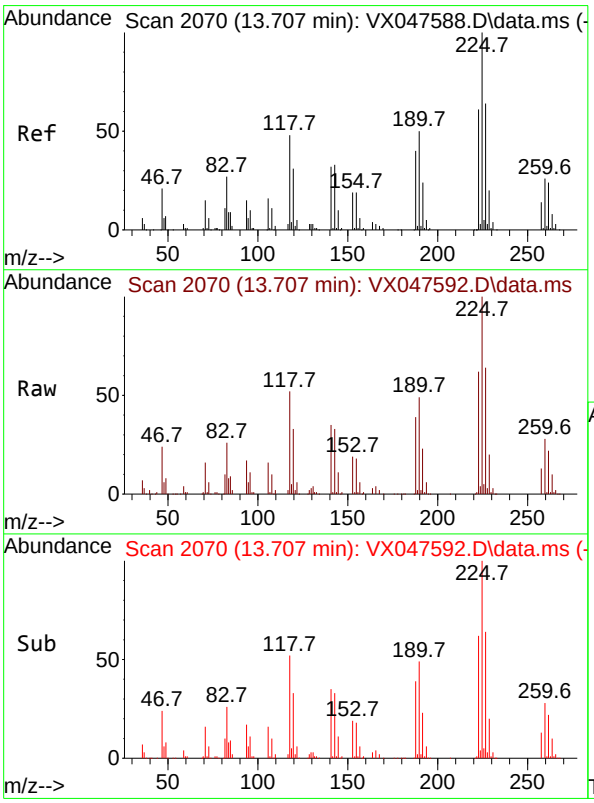
Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.6	139.8
145	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

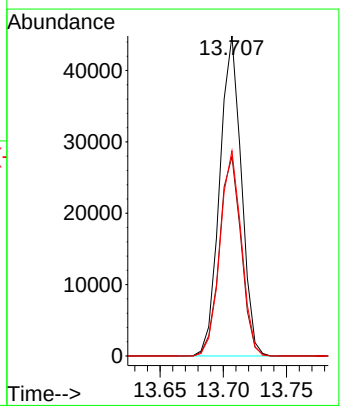
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

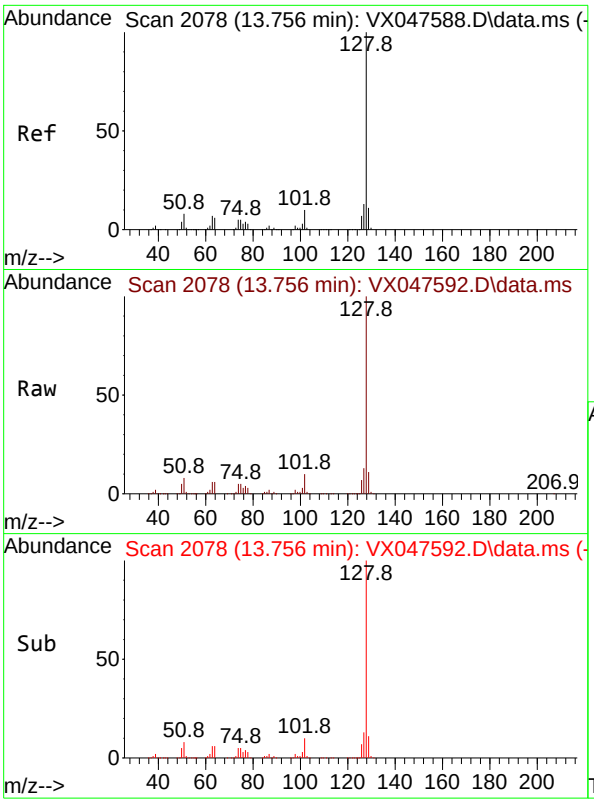


#94
Hexachlorobutadiene
Concen: 52.131 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:225 Resp: 53099

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.7	95.1
227	63.3	32.0	96.0

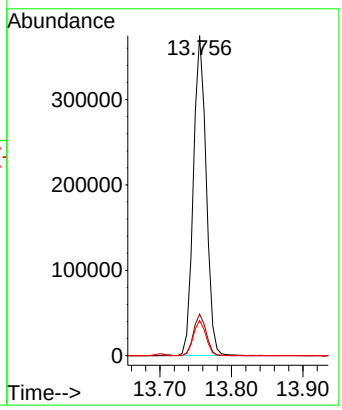




#95
Naphthalene
Concen: 50.836 ug/l
RT: 13.756 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:128 Resp: 46420

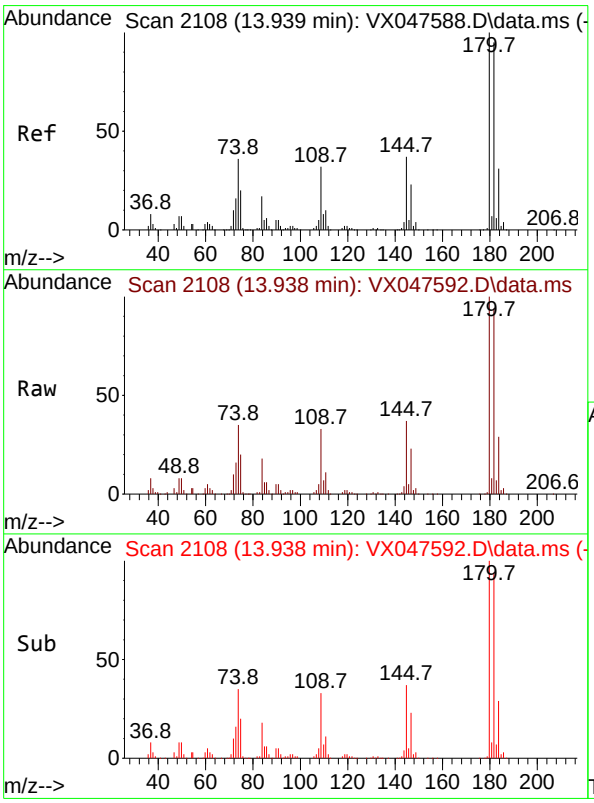
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations APPROVED

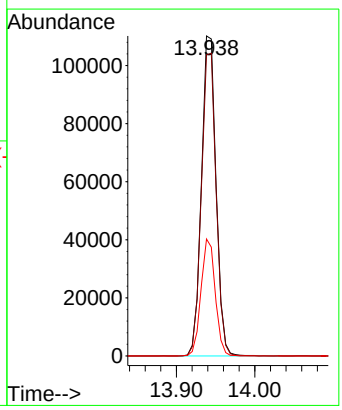
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.054 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion:180 Resp: 142413

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.6	142.8
145	35.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	108	-0.01
2	T	Dichlorodifluoromethane	0.518	0.462	10.8	99	0.00
3	P	Chloromethane	0.680	0.595	12.5	97	0.00
4	C	Vinyl Chloride	0.666	0.610	8.4#	99	0.00
5	T	Bromomethane	0.422	0.410	2.8	104	0.00
6	T	Chloroethane	0.445	0.415	6.7	101	0.00
7	T	Trichlorofluoromethane	0.989	0.931	5.9	101	0.00
8	T	Diethyl Ether	0.405	0.378	6.7	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.578	0.561	2.9	103	0.00
10	T	Methyl Iodide	0.902	0.834	7.5	98	0.00
11	T	Tert butyl alcohol	0.089	0.091	-2.2	110	0.00
12	CM	1,1-Dichloroethene	0.594	0.559	5.9#	100	0.00
13	T	Acrolein	0.082	0.083	-1.2	110	0.00
14	T	Allyl chloride	1.226	1.146	6.5	102	0.00
15	T	Acrylonitrile	0.328	0.333	-1.5	103	0.00
16	T	Acetone	0.346	0.339	2.0	115	0.00
17	T	Carbon Disulfide	1.626	1.463	10.0	100	0.00
18	T	Methyl Acetate	0.770	0.850	-10.4	104	0.00
19	T	Methyl tert-butyl Ether	2.169	2.105	3.0	101	0.00
20	T	Methylene Chloride	0.732	0.674	7.9	99	0.00
21	T	trans-1,2-Dichloroethene	0.640	0.597	6.7	99	0.00
22	T	Diisopropyl ether	2.376	2.289	3.7	99	-0.01
23	T	Vinyl Acetate	1.901	1.867	1.8	101	0.00
24	P	1,1-Dichloroethane	1.263	1.213	4.0	101	0.00
25	T	2-Butanone	0.432	0.438	-1.4	107	0.00
26	T	2,2-Dichloropropane	1.050	1.039	1.0	105	0.00
27	T	cis-1,2-Dichloroethene	0.783	0.765	2.3	102	0.00
28	T	Bromochloromethane	0.551	0.514	6.7	96	-0.01
29	T	Tetrahydrofuran	0.260	0.263	-1.2	103	0.00
30	C	Chloroform	1.276	1.244	2.5#	101	0.00
31	T	Cyclohexane	1.052	0.968	8.0	101	0.00
32	T	1,1,1-Trichloroethane	1.082	1.060	2.0	101	0.00
33	S	1,2-Dichloroethane-d4	0.796	0.725	8.9	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35	S	Dibromofluoromethane	0.335	0.306	8.7	100	0.00
36	T	1,1-Dichloropropene	0.490	0.457	6.7	101	0.00
37	T	Ethyl Acetate	0.525	0.517	1.5	105	-0.01
38	T	Carbon Tetrachloride	0.532	0.500	6.0	100	-0.01
39	T	Methylcyclohexane	0.556	0.541	2.7	103	0.00
40	TM	Benzene	1.488	1.410	5.2	100	0.00
41	T	Methacrylonitrile	0.271	0.274	-1.1	103	0.00
42	TM	1,2-Dichloroethane	0.566	0.531	6.2	98	0.00
43	T	Isopropyl Acetate	0.860	0.846	1.6	102	0.00
44	TM	Trichloroethene	0.360	0.346	3.9	101	0.00
45	C	1,2-Dichloropropane	0.381	0.366	3.9#	100	0.00
46	T	Dibromomethane	0.277	0.266	4.0	100	0.00
47	T	Bromodichloromethane	0.572	0.558	2.4	99	0.00
48	T	Methyl methacrylate	0.429	0.427	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.004	0.005	-25.0	106	0.00
50	S	Toluene-d8	1.160	1.077	7.2	101	0.00
51	T	4-Methyl-2-Pentanone	0.477	0.488	-2.3	103	0.00
52	CM	Toluene	0.917	0.883	3.7#	101	0.00
53	T	t-1,3-Dichloropropene	0.584	0.578	1.0	101	0.00
54	T	cis-1,3-Dichloropropene	0.624	0.615	1.4	102	0.00
55	T	1,1,2-Trichloroethane	0.354	0.338	4.5	99	0.00
56	T	Ethyl methacrylate	0.555	0.572	-3.1	103	0.00
57	T	1,3-Dichloropropane	0.607	0.594	2.1	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.227	0.238	-4.8	94	0.00
59	T	2-Hexanone	0.343	0.347	-1.2	104	0.00
60	T	Dibromochloromethane	0.407	0.406	0.2	101	0.00
61	T	1,2-Dibromoethane	0.360	0.355	1.4	101	0.00
62	S	4-Bromofluorobenzene	0.440	0.410	6.8	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	T	Tetrachloroethene	0.326	0.315	3.4	103	0.00
65	PM	Chlorobenzene	1.136	1.103	2.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.392	0.383	2.3	99	0.00
67	C	Ethyl Benzene	1.960	1.953	0.4#	102	0.00
68	T	m/p-Xylenes	0.729	0.722	1.0	101	0.00
69	T	o-Xylene	0.706	0.708	-0.3	101	0.00
70	T	Styrene	1.236	1.225	0.9	101	0.00
71	P	Bromoform	0.293	0.300	-2.4	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73	T	Isopropylbenzene	3.801	3.762	1.0	101	0.00
74	T	N-amyl acetate	1.733	1.746	-0.8	102	0.00
75	P	1,1,2,2-Tetrachloroethane	1.150	1.147	0.3	102	0.00
76	T	1,2,3-Trichloropropane	1.012	1.076	-6.3	104	0.00
77	T	Bromobenzene	0.936	0.902	3.6	100	0.00
78	T	n-propylbenzene	4.494	4.430	1.4	101	0.00
79	T	2-Chlorotoluene	2.752	2.704	1.7	101	0.00
80	T	1,3,5-Trimethylbenzene	3.123	3.127	-0.1	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.397	0.401	-1.0	106	0.00
82	T	4-Chlorotoluene	3.251	3.196	1.7	101	0.00
83	T	tert-Butylbenzene	3.197	3.177	0.6	103	0.00
84	T	1,2,4-Trimethylbenzene	3.166	3.161	0.2	103	0.00
85	T	sec-Butylbenzene	3.797	3.805	-0.2	103	0.00
86	T	p-Isopropyltoluene	3.215	3.206	0.3	102	0.00
87	T	1,3-Dichlorobenzene	1.739	1.705	2.0	102	0.00
88	T	1,4-Dichlorobenzene	1.785	1.749	2.0	104	0.00
89	T	n-Butylbenzene	2.975	3.020	-1.5	105	0.00
90	T	Hexachloroethane	0.564	0.573	-1.6	105	0.00
91	T	1,2-Dichlorobenzene	1.657	1.634	1.4	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.237	-1.7	102	0.00
93	T	1,2,4-Trichlorobenzene	1.077	1.101	-2.2	104	0.00
94	T	Hexachlorobutadiene	0.366	0.381	-4.1	108	0.00
95	T	Naphthalene	3.279	3.334	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.023	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	108	-0.01
2	T	Dichlorodifluoromethane	50.000	44.592	10.8	99	0.00
3	P	Chloromethane	50.000	43.710	12.6	97	0.00
4	C	Vinyl Chloride	50.000	45.783	8.4#	99	0.00
5	T	Bromomethane	50.000	48.489	3.0	104	0.00
6	T	Chloroethane	50.000	46.575	6.8	101	0.00
7	T	Trichlorofluoromethane	50.000	47.074	5.9	101	0.00
8	T	Diethyl Ether	50.000	46.693	6.6	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.524	3.0	103	0.00
10	T	Methyl Iodide	50.000	46.210	7.6	98	0.00
11	T	Tert butyl alcohol	250.000	256.271	-2.5	110	0.00
12	CM	1,1-Dichloroethene	50.000	47.076	5.8#	100	0.00
13	T	Acrolein	250.000	254.867	-1.9	110	0.00
14	T	Allyl chloride	50.000	46.742	6.5	102	0.00
15	T	Acrylonitrile	250.000	253.567	-1.4	103	0.00
16	T	Acetone	250.000	245.006	2.0	115	0.00
17	T	Carbon Disulfide	50.000	44.966	10.1	100	0.00
18	T	Methyl Acetate	50.000	55.175	-10.3	104	0.00
19	T	Methyl tert-butyl Ether	50.000	48.538	2.9	101	0.00
20	T	Methylene Chloride	50.000	46.000	8.0	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.709	6.6	99	0.00
22	T	Diisopropyl ether	50.000	48.174	3.7	99	-0.01
23	T	Vinyl Acetate	250.000	245.539	1.8	101	0.00
24	P	1,1-Dichloroethane	50.000	48.041	3.9	101	0.00
25	T	2-Butanone	250.000	253.598	-1.4	107	0.00
26	T	2,2-Dichloropropane	50.000	49.494	1.0	105	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.826	2.3	102	0.00
28	T	Bromochloromethane	50.000	46.586	6.8	96	-0.01
29	T	Tetrahydrofuran	250.000	253.375	-1.4	103	0.00
30	C	Chloroform	50.000	48.739	2.5#	101	0.00
31	T	Cyclohexane	50.000	45.999	8.0	101	0.00
32	T	1,1,1-Trichloroethane	50.000	48.978	2.0	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.550	8.9	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35	S	Dibromofluoromethane	50.000	45.559	8.9	100	0.00
36	T	1,1-Dichloropropene	50.000	46.663	6.7	101	0.00
37	T	Ethyl Acetate	50.000	49.241	1.5	105	-0.01
38	T	Carbon Tetrachloride	50.000	46.935	6.1	100	-0.01
39	T	Methylcyclohexane	50.000	48.597	2.8	103	0.00
40	TM	Benzene	50.000	47.357	5.3	100	0.00
41	T	Methacrylonitrile	50.000	50.490	-1.0	103	0.00
42	TM	1,2-Dichloroethane	50.000	46.867	6.3	98	0.00
43	T	Isopropyl Acetate	50.000	49.136	1.7	102	0.00
44	TM	Trichloroethene	50.000	48.037	3.9	101	0.00
45	C	1,2-Dichloropropane	50.000	48.053	3.9#	100	0.00
46	T	Dibromomethane	50.000	47.976	4.0	100	0.00
47	T	Bromodichloromethane	50.000	48.769	2.5	99	0.00
48	T	Methyl methacrylate	50.000	49.757	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1089.520	-9.0	106	0.00
50	S	Toluene-d8	50.000	46.411	7.2	101	0.00
51	T	4-Methyl-2-Pentanone	250.000	255.752	-2.3	103	0.00
52	CM	Toluene	50.000	48.130	3.7#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	49.527	0.9	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	49.257	1.5	102	0.00
55	T	1,1,2-Trichloroethane	50.000	47.772	4.5	99	0.00
56	T	Ethyl methacrylate	50.000	51.490	-3.0	103	0.00
57	T	1,3-Dichloropropane	50.000	48.894	2.2	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.562	9.8	94	0.00
59	T	2-Hexanone	250.000	253.126	-1.3	104	0.00
60	T	Dibromochloromethane	50.000	49.824	0.4	101	0.00
61	T	1,2-Dibromoethane	50.000	49.297	1.4	101	0.00
62	S	4-Bromofluorobenzene	50.000	46.520	7.0	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64	T	Tetrachloroethene	50.000	48.296	3.4	103	0.00
65	PM	Chlorobenzene	50.000	48.549	2.9	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.794	2.4	99	0.00
67	C	Ethyl Benzene	50.000	49.813	0.4#	102	0.00
68	T	m/p-Xylenes	100.000	98.956	1.0	101	0.00
69	T	o-Xylene	50.000	50.159	-0.3	101	0.00
70	T	Styrene	50.000	49.536	0.9	101	0.00
71	P	Bromoform	50.000	51.207	-2.4	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73	T	Isopropylbenzene	50.000	49.479	1.0	101	0.00
74	T	N-amyl acetate	50.000	50.375	-0.8	102	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.851	0.3	102	0.00
76	T	1,2,3-Trichloropropane	50.000	53.124	-6.2	104	0.00
77	T	Bromobenzene	50.000	48.173	3.7	100	0.00
78	T	n-propylbenzene	50.000	49.295	1.4	101	0.00
79	T	2-Chlorotoluene	50.000	49.117	1.8	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.543	-1.1	106	0.00
82	T	4-Chlorotoluene	50.000	49.164	1.7	101	0.00
83	T	tert-Butylbenzene	50.000	49.679	0.6	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.911	0.2	103	0.00
85	T	sec-Butylbenzene	50.000	50.100	-0.2	103	0.00
86	T	p-Isopropyltoluene	50.000	49.861	0.3	102	0.00
87	T	1,3-Dichlorobenzene	50.000	49.014	2.0	102	0.00
88	T	1,4-Dichlorobenzene	50.000	49.011	2.0	104	0.00
89	T	n-Butylbenzene	50.000	50.752	-1.5	105	0.00
90	T	Hexachloroethane	50.000	50.732	-1.5	105	0.00
91	T	1,2-Dichlorobenzene	50.000	49.304	1.4	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.918	-1.8	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.133	-2.3	104	0.00
94	T	Hexachlorobutadiene	50.000	52.131	-4.3	108	0.00
95	T	Naphthalene	50.000	50.836	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.054	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

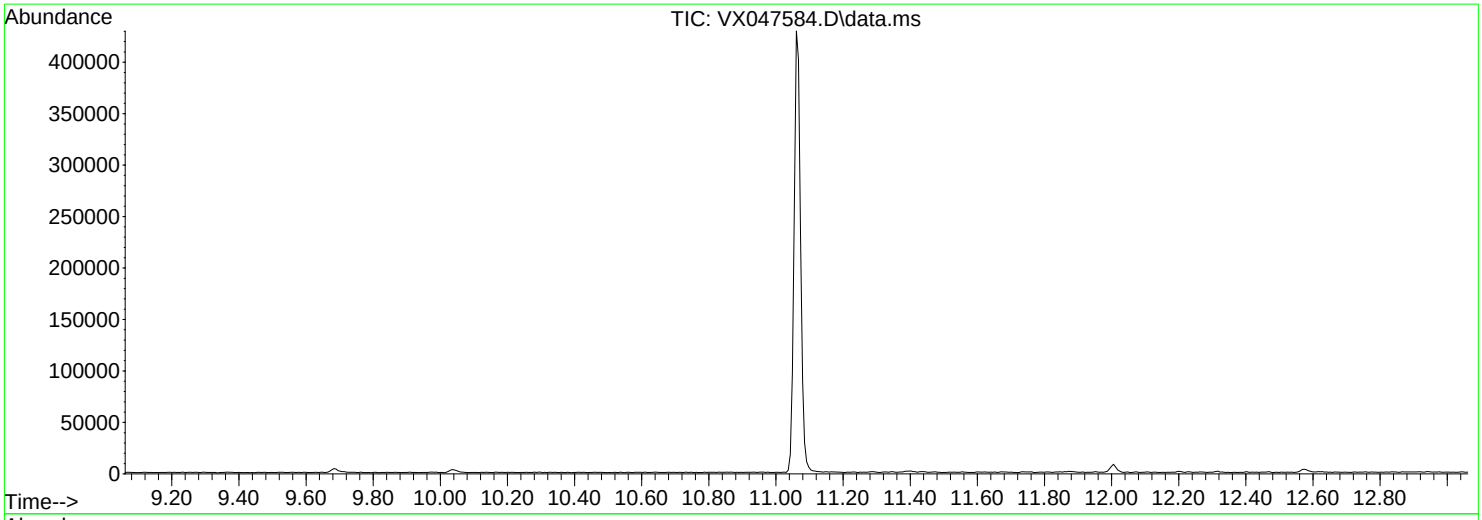
QC SAMPLE DATA

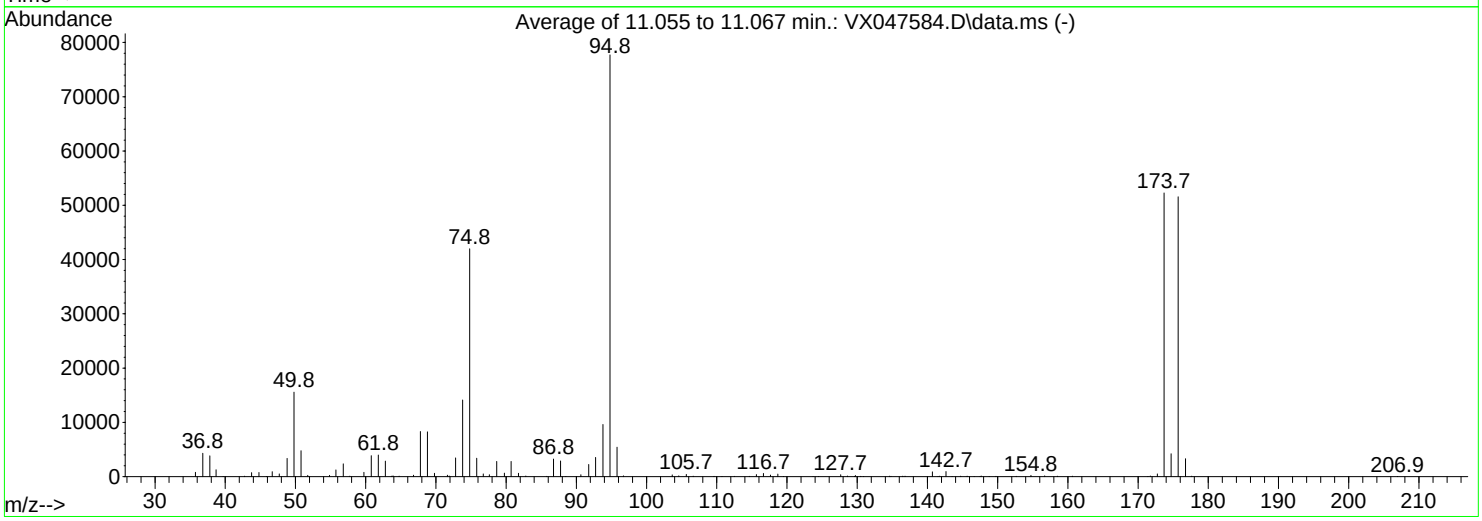
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047584.D
Acq On : 16 Sep 2025 08:56
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025





AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	15566	PASS
75	95	30	60	54.0	41979	PASS
95	95	100	100	100.0	77717	PASS
96	95	5	9	7.0	5432	PASS
173	174	0.00	2	1.0	507	PASS
174	95	50	100	67.3	52275	PASS
175	174	5	9	8.1	4209	PASS
176	174	95	101	98.6	51560	PASS
177	176	5	9	6.4	3311	PASS

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBL01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBL01	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
VX047594.D	1	09/16/25 14:53	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
107-02-8	Acrolein	7.10	U	7.10	25.0	ug/L
107-13-1	Acrylonitrile	0.83	U	0.83	25.0	ug/L
67-64-1	Acetone	1.50	U	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
108-05-4	Vinyl Acetate	0.66	U	0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.21	U	0.21	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.15	U	0.15	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
74-95-3	Dibromomethane	0.25	U	0.25	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBL01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBL01	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
VX047594.D	1	09/16/25 14:53	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.19	U	0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	0.30	U	0.30	25.0	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.19	U	0.19	5.00	ug/L
67-72-1	Hexachloroethane	0.32	U	0.32	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
1330-20-7	Total Xylenes	0.36	U	0.36	15.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.35	U	0.35	5.00	ug/L
108-86-1	Bromobenzene	0.24	U	0.24	5.00	ug/L
103-65-1	n-propylbenzene	0.13	U	0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	0.14	U	0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.15	U	0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	0.13	U	0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	0.14	U	0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.14	U	0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	0.13	U	0.13	5.00	ug/L

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBL01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBL01	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
VX047594.D	1	09/16/25 14:53	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.13	U	0.13	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
104-51-8	n-Butylbenzene	0.15	U	0.15	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.30	U	0.30	5.00	ug/L
91-20-3	Naphthalene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.2		74 - 125	112%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	58.3		77 - 121	117%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	171000	5.538			
540-36-3	1,4-Difluorobenzene	355000	6.745			
3114-55-4	Chlorobenzene-d5	356000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	186000	12.006			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047594.D
Acq On : 16 Sep 2025 14:53
Operator : JC/MD
Sample : VX0916WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Quant Time: Sep 17 06:49:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

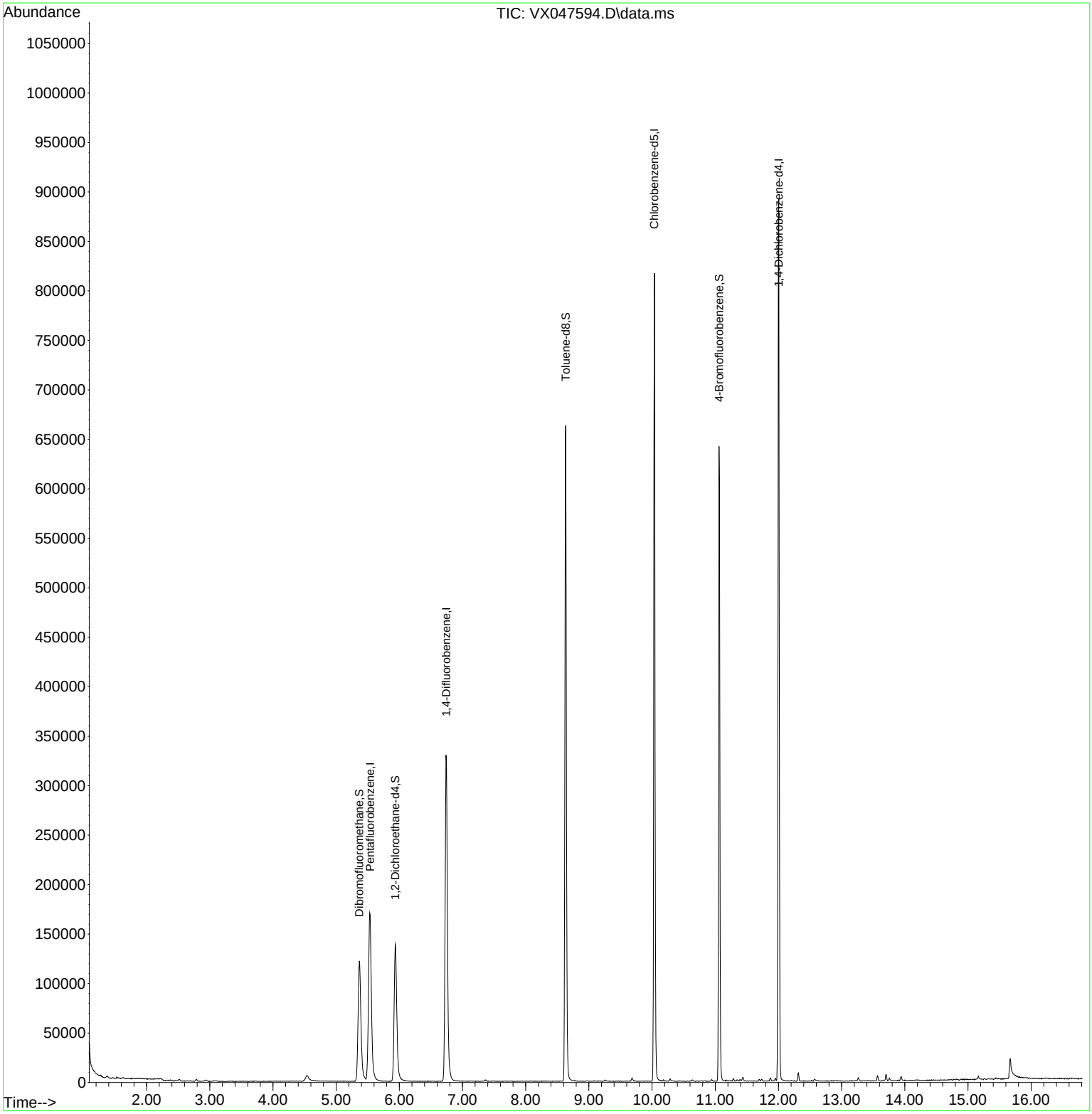
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	170934	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	354724	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	356396	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	185546	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	152887	56.191	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 112.380%			
35) Dibromofluoromethane	5.367	113	117659	49.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.920%			
50) Toluene-d8	8.635	98	408157	49.583	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.160%			
62) 4-Bromofluorobenzene	11.061	95	181994	58.255	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 116.520%			
Target Compounds						Qvalue

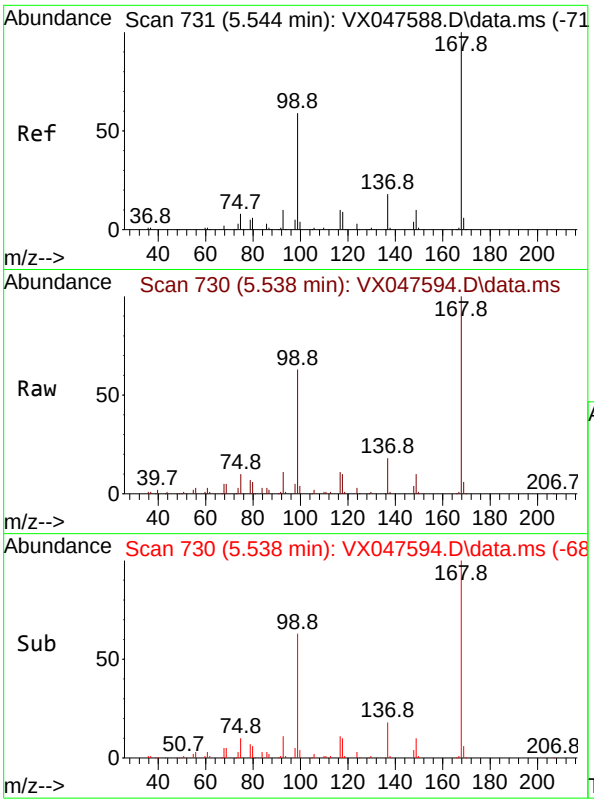
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047594.D
Acq On : 16 Sep 2025 14:53
Operator : JC/MD
Sample : VX0916WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Quant Time: Sep 17 06:49:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



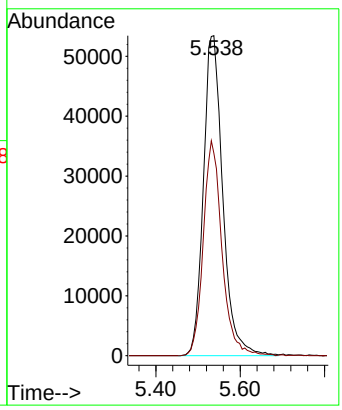


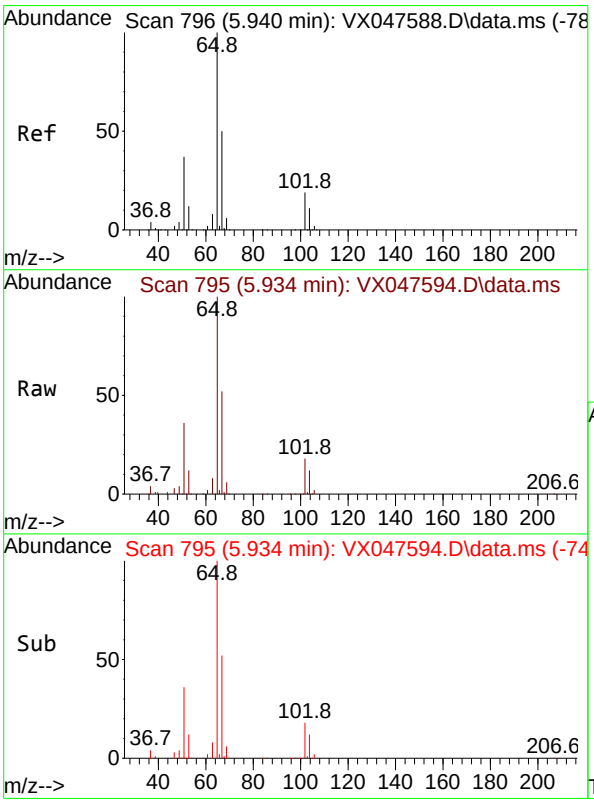
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Tgt Ion:168 Resp: 170934

Ion	Ratio	Lower	Upper
168	100		
99	63.3	48.8	73.2

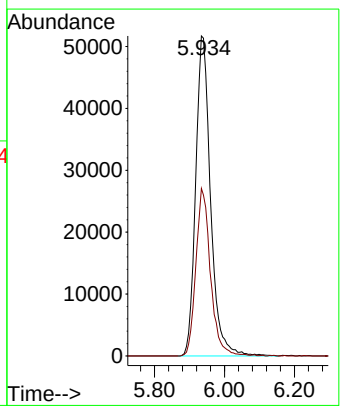


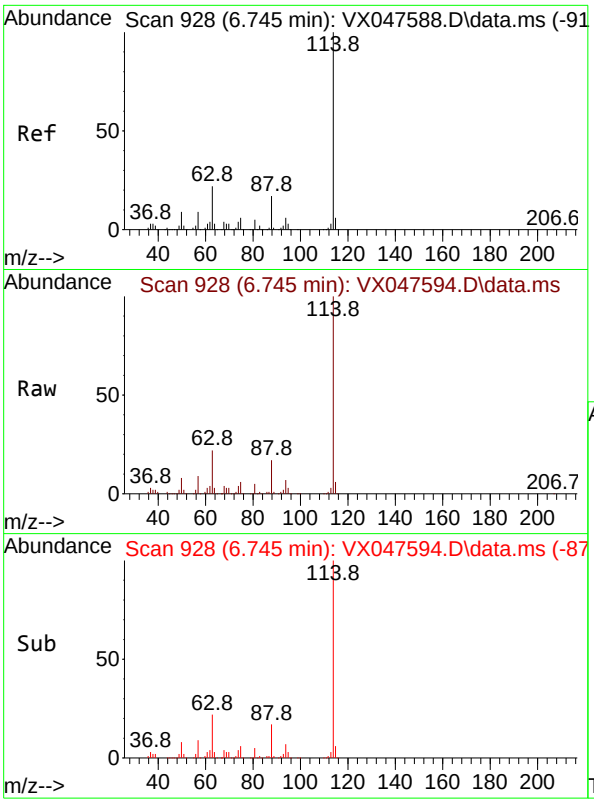


#33
1,2-Dichloroethane-d4
Concen: 56.191 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Tgt Ion: 65 Resp: 152887

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	103.0



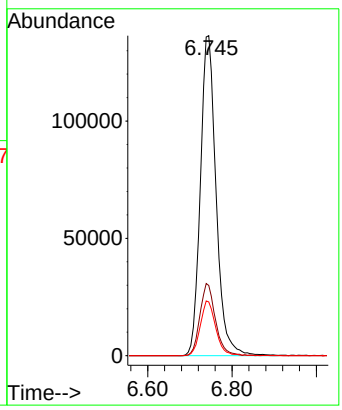


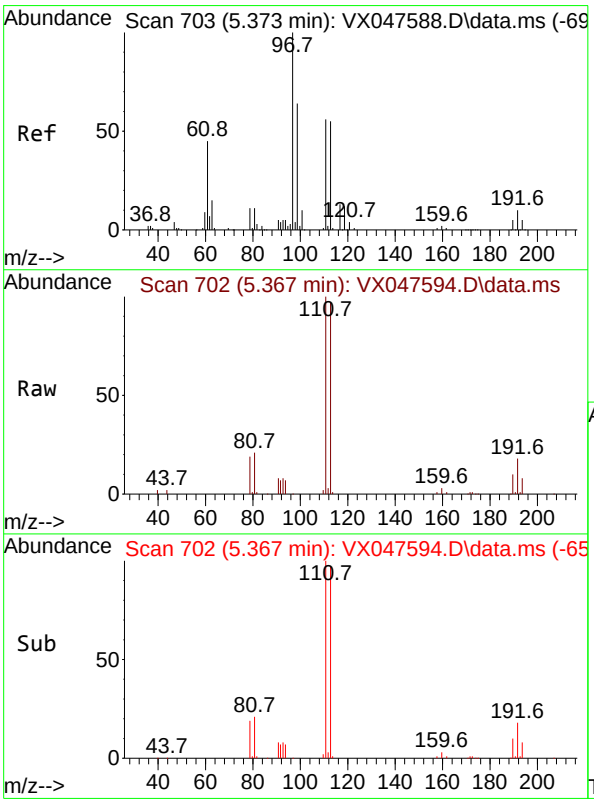
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Tgt Ion:114 Resp: 354724

Ion	Ratio	Lower	Upper
114	100		
63	25.2	0.0	44.0
88	16.8	0.0	34.2

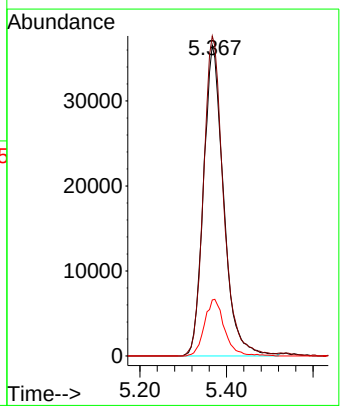


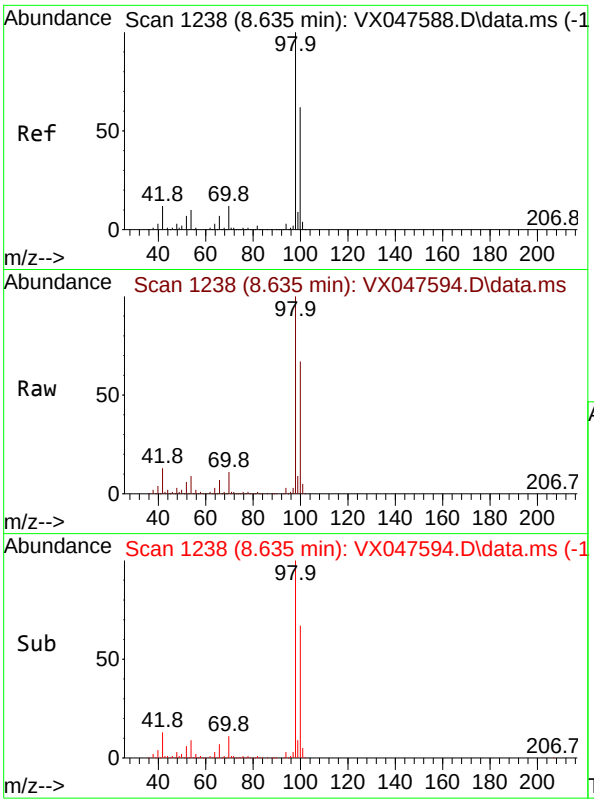


#35
Dibromofluoromethane
Concen: 49.458 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Tgt Ion:113 Resp: 117659

Ion	Ratio	Lower	Upper
113	100		
111	102.3	80.9	121.3
192	18.3	14.2	21.4



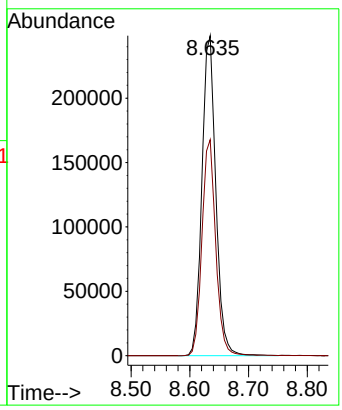


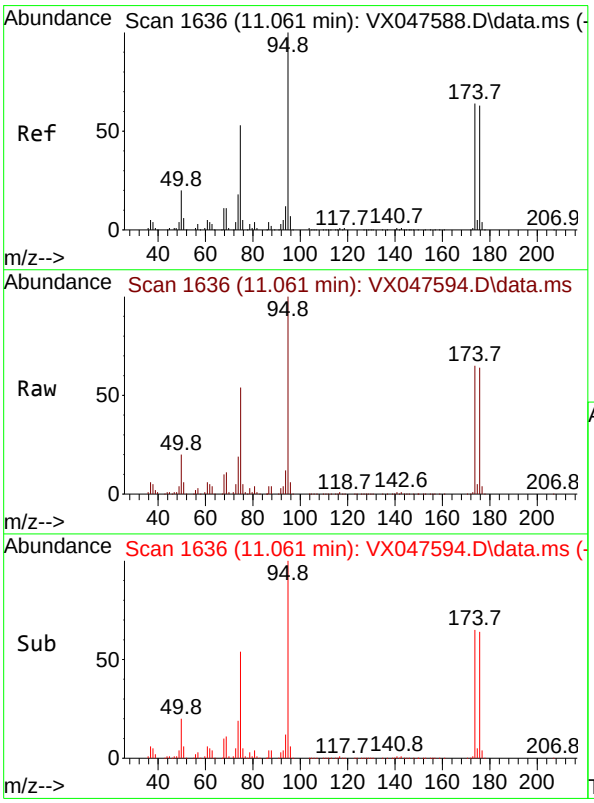
#50
Toluene-d8
Concen: 49.583 ug/l
RT: 8.635 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Tgt Ion: 98 Resp: 408157

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.0	79.4

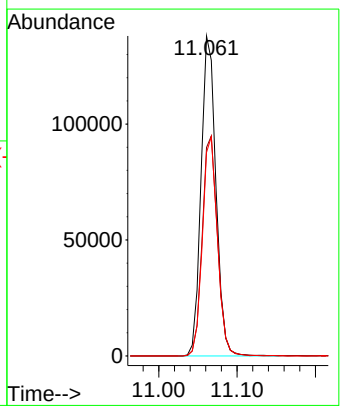


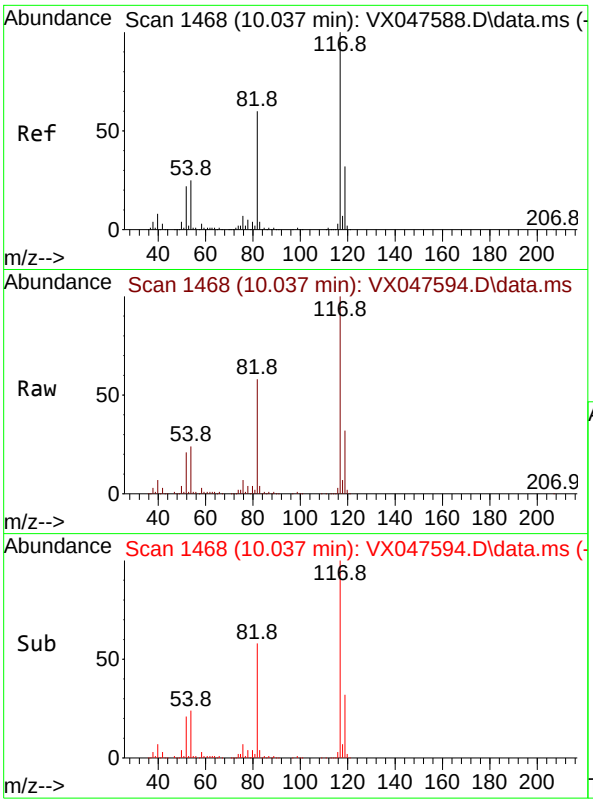


#62
4-Bromofluorobenzene
Concen: 58.255 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Tgt Ion: 95 Resp: 181994

Ion	Ratio	Lower	Upper
95	100		
174	70.1	0.0	141.6
176	68.9	0.0	138.4



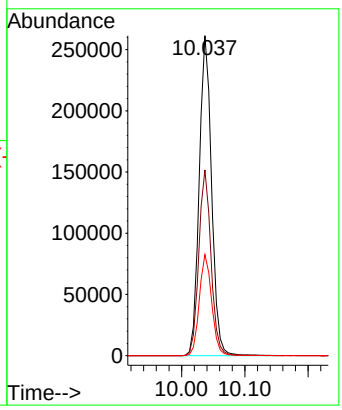


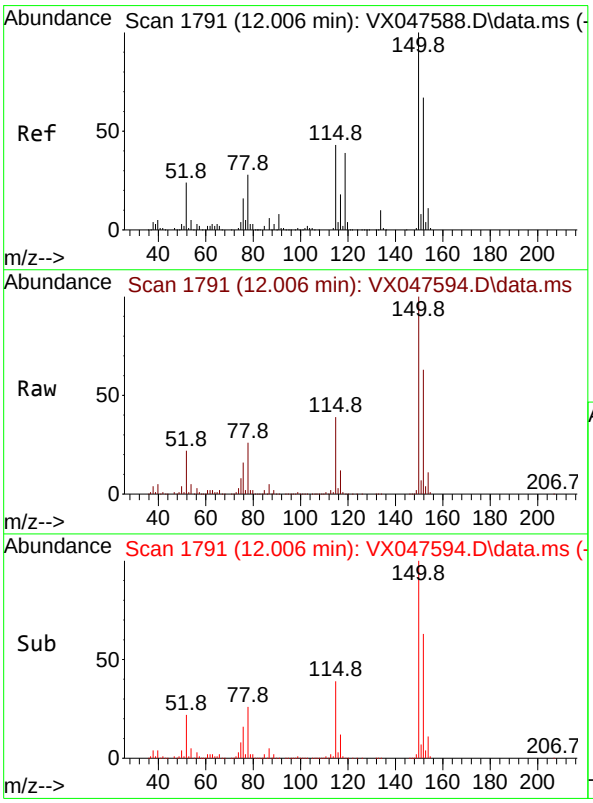
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBL01

Tgt Ion:117 Resp: 356396

Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.8	71.6
119	31.6	25.2	37.8

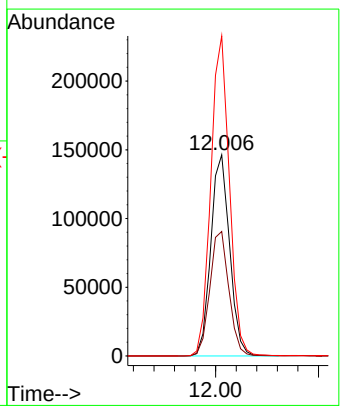




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047594.D
Acq: 16 Sep 2025 14:53

Tgt Ion:152 Resp: 185546

Ion	Ratio	Lower	Upper
152	100		
115	62.9	44.9	134.5
150	157.3	0.0	352.0



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBS01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBS01	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
VX047595.D	1	09/16/25 15:21	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.0		0.22	5.00	ug/L
74-87-3	Chloromethane	18.3		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.26	5.00	ug/L
74-83-9	Bromomethane	20.6		1.40	5.00	ug/L
75-00-3	Chloroethane	19.1		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.33	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.23	5.00	ug/L
107-02-8	Acrolein	94.4		7.10	25.0	ug/L
107-13-1	Acrylonitrile	100		0.83	25.0	ug/L
67-64-1	Acetone	83.7		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	18.1		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.5		0.16	5.00	ug/L
75-09-2	Methylene Chloride	19.1		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.6		0.23	5.00	ug/L
108-05-4	Vinyl Acetate	100		0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	5.00	ug/L
78-93-3	2-Butanone	100		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.25	5.00	ug/L
594-20-7	2,2-Dichloropropane	18.1		0.21	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.19	5.00	ug/L
74-97-5	Bromochloromethane	20.4		0.22	5.00	ug/L
67-66-3	Chloroform	20.3		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.2		0.20	5.00	ug/L
563-58-6	1,1-Dichloropropene	18.2		0.15	5.00	ug/L
71-43-2	Benzene	19.3		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.3		0.22	5.00	ug/L
79-01-6	Trichloroethene	19.2		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.5		0.20	5.00	ug/L
74-95-3	Dibromomethane	19.3		0.25	5.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.22	5.00	ug/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBS01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBS01	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
VX047595.D	1	09/16/25 15:21	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-10-1	4-Methyl-2-Pentanone	100		0.68	25.0	ug/L
108-88-3	Toluene	19.3		0.14	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.1		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.5		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.6		0.21	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.2		0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	84.6		0.30	25.0	ug/L
591-78-6	2-Hexanone	100		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	19.9		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.3		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.23	5.00	ug/L
108-90-7	Chlorobenzene	18.5		0.12	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	18.7		0.19	5.00	ug/L
67-72-1	Hexachloroethane	17.2		0.32	5.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	37.4		0.24	10.0	ug/L
1330-20-7	Total Xylenes	56.1		0.36	15.0	ug/L
95-47-6	o-Xylene	18.7		0.12	5.00	ug/L
100-42-5	Styrene	18.6		0.15	5.00	ug/L
75-25-2	Bromoform	18.7		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	17.9		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.2		0.26	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	19.2		0.35	5.00	ug/L
108-86-1	Bromobenzene	17.8		0.24	5.00	ug/L
103-65-1	n-propylbenzene	17.8		0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	18.1		0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.0		0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	17.9		0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	17.5		0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.0		0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	17.9		0.13	5.00	ug/L

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBS01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBS01	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
VX047595.D	1	09/16/25 15:21	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	17.8		0.13	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.8		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.5		0.19	5.00	ug/L
104-51-8	n-Butylbenzene	18.0		0.15	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.1		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.9		0.20	5.00	ug/L
87-68-3	Hexachlorobutadiene	17.6		0.30	5.00	ug/L
91-20-3	Naphthalene	17.8		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.8		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	50.9		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		77 - 121	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	5.532			
540-36-3	1,4-Difluorobenzene	338000	6.745			
3114-55-4	Chlorobenzene-d5	315000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	158000	12.006			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047595.D
Acq On : 16 Sep 2025 15:21
Operator : JC/MD
Sample : VX0916WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 06:49:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	184711	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	338431	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	315471	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	158261	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	163682	55.672	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 111.340%			
35) Dibromofluoromethane	5.367	113	118111	52.038	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.080%			
50) Toluene-d8	8.635	98	399956	50.926	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.860%			
62) 4-Bromofluorobenzene	11.061	95	160691	53.912	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	34459	18.016	ug/l	98
3) Chloromethane	1.301	50	45892	18.256	ug/l	97
4) Vinyl Chloride	1.380	62	45703	18.573	ug/l	97
5) Bromomethane	1.618	94	32075	20.556	ug/l	99
6) Chloroethane	1.697	64	31358	19.066	ug/l	98
7) Trichlorofluoromethane	1.898	101	68568	18.767	ug/l	98
8) Diethyl Ether	2.136	74	28689	19.195	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	41304	19.333	ug/l	97
10) Methyl Iodide	2.453	142	58598	17.587	ug/l	99
11) Tert butyl alcohol	2.941	59	33216	101.438	ug/l	99
12) 1,1-Dichloroethene	2.325	96	41202	18.775	ug/l	94
13) Acrolein	2.233	56	28494	94.428	ug/l	98
14) Allyl chloride	2.666	41	84854	18.738	ug/l	100
15) Acrylonitrile	3.056	53	126976	104.688	ug/l	99
16) Acetone	2.374	43	107000	83.700	ug/l	98
17) Carbon Disulfide	2.514	76	108513	18.062	ug/l	97
18) Methyl Acetate	2.697	43	64398	22.635	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	163916	20.461	ug/l	99
20) Methylene Chloride	2.788	84	51674	19.096	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	46396	19.637	ug/l	98
22) Diisopropyl ether	3.751	45	178221	20.307	ug/l	96
23) Vinyl Acetate	3.709	43	702940	100.074	ug/l	100
24) 1,1-Dichloroethane	3.605	63	92195	19.764	ug/l	99
25) 2-Butanone	4.538	43	161053	100.998	ug/l	100
26) 2,2-Dichloropropane	4.459	77	70359	18.145	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	57536	19.884	ug/l	99
28) Bromochloromethane	4.879	49	41545	20.400	ug/l	97
29) Tetrahydrofuran	4.989	42	99415	103.635	ug/l	100
30) Chloroform	5.074	83	95809	20.325	ug/l	99
31) Cyclohexane	5.452	56	76578	19.710	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	80619	20.163	ug/l	99
36) 1,1-Dichloropropene	5.678	75	60495	18.240	ug/l	98
37) Ethyl Acetate	4.690	43	69032	19.440	ug/l	99
38) Carbon Tetrachloride	5.660	117	68892	19.118	ug/l	98
39) Methylcyclohexane	7.361	83	69961	18.583	ug/l	99
40) Benzene	6.019	78	194635	19.322	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047595.D
Acq On : 16 Sep 2025 15:21
Operator : JC/MD
Sample : VX0916WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 06:49:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.898	41	37677	20.552	ug/l		98
42) 1,2-Dichloroethane	6.068	62	73955	19.296	ug/l		98
43) Isopropyl Acetate	6.324	43	115141	19.770	ug/l		99
44) Trichloroethene	7.111	130	46658	19.159	ug/l		93
45) 1,2-Dichloropropane	7.409	63	50194	19.460	ug/l		99
46) Dibromomethane	7.562	93	36296	19.337	ug/l		97
47) Bromodichloromethane	7.806	83	74541	19.245	ug/l		98
48) Methyl methacrylate	7.678	41	57732	19.901	ug/l		99
49) 1,4-Dioxane	7.647	88	12557	428.306	ug/l		93
51) 4-Methyl-2-Pentanone	8.555	43	336358	104.165	ug/l		100
52) Toluene	8.702	92	119672	19.283	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	75494	19.108	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	82533	19.544	ug/l		99
55) 1,1,2-Trichloroethane	9.135	97	46853	19.579	ug/l		97
56) Ethyl methacrylate	9.098	69	75362	20.053	ug/l		100
57) 1,3-Dichloropropane	9.293	76	82898	20.166	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.226	63	138530	84.558	ug/l		100
59) 2-Hexanone	9.415	43	236351	101.913	ug/l		100
60) Dibromochloromethane	9.507	129	54864	19.897	ug/l		100
61) 1,2-Dibromoethane	9.592	107	49468	20.295	ug/l		99
64) Tetrachloroethene	9.257	164	37604	18.285	ug/l		99
65) Chlorobenzene	10.061	112	132692	18.515	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.147	131	46156	18.663	ug/l		99
67) Ethyl Benzene	10.177	91	230715	18.657	ug/l		100
68) m/p-Xylenes	10.287	106	172349	37.445	ug/l		99
69) o-Xylene	10.622	106	83294	18.710	ug/l		100
70) Styrene	10.640	104	145298	18.627	ug/l		100
71) Bromoform	10.781	173	34496	18.680	ug/l	#	99
73) Isopropylbenzene	10.945	105	215290	17.893	ug/l		100
74) N-amyl acetate	10.823	43	100764	18.365	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	66212	18.189	ug/l		98
76) 1,2,3-Trichloropropane	11.220	75	61433m	19.172	ug/l		
77) Bromobenzene	11.183	156	52810	17.821	ug/l		98
78) n-propylbenzene	11.287	91	253278	17.807	ug/l		100
79) 2-Chlorotoluene	11.348	91	157867	18.122	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	177677	17.974	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	20595	16.391	ug/l		98
82) 4-Chlorotoluene	11.439	91	184150	17.898	ug/l		100
83) tert-Butylbenzene	11.695	119	177366	17.527	ug/l		99
84) 1,2,4-Trimethylbenzene	11.732	105	180139	17.974	ug/l		100
85) sec-Butylbenzene	11.872	105	215249	17.908	ug/l		100
86) p-Isopropyltoluene	11.988	119	180973	17.784	ug/l		99
87) 1,3-Dichlorobenzene	11.951	146	98122	17.827	ug/l		99
88) 1,4-Dichlorobenzene	12.024	146	98890	17.505	ug/l		98
89) n-Butylbenzene	12.311	91	169374	17.988	ug/l		98
90) Hexachloroethane	12.518	117	30747	17.210	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	95137	18.142	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.921	75	13450	18.249	ug/l		98
93) 1,2,4-Trichlorobenzene	13.567	180	61093	17.926	ug/l		99
94) Hexachlorobutadiene	13.707	225	20350	17.579	ug/l		98
95) Naphthalene	13.756	128	184251	17.754	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	56297	17.758	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047595.D
Acq On : 16 Sep 2025 15:21
Operator : JC/MD
Sample : VX0916WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 06:49:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047595.D
Acq On : 16 Sep 2025 15:21
Operator : JC/MD
Sample : VX0916WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 06:49:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

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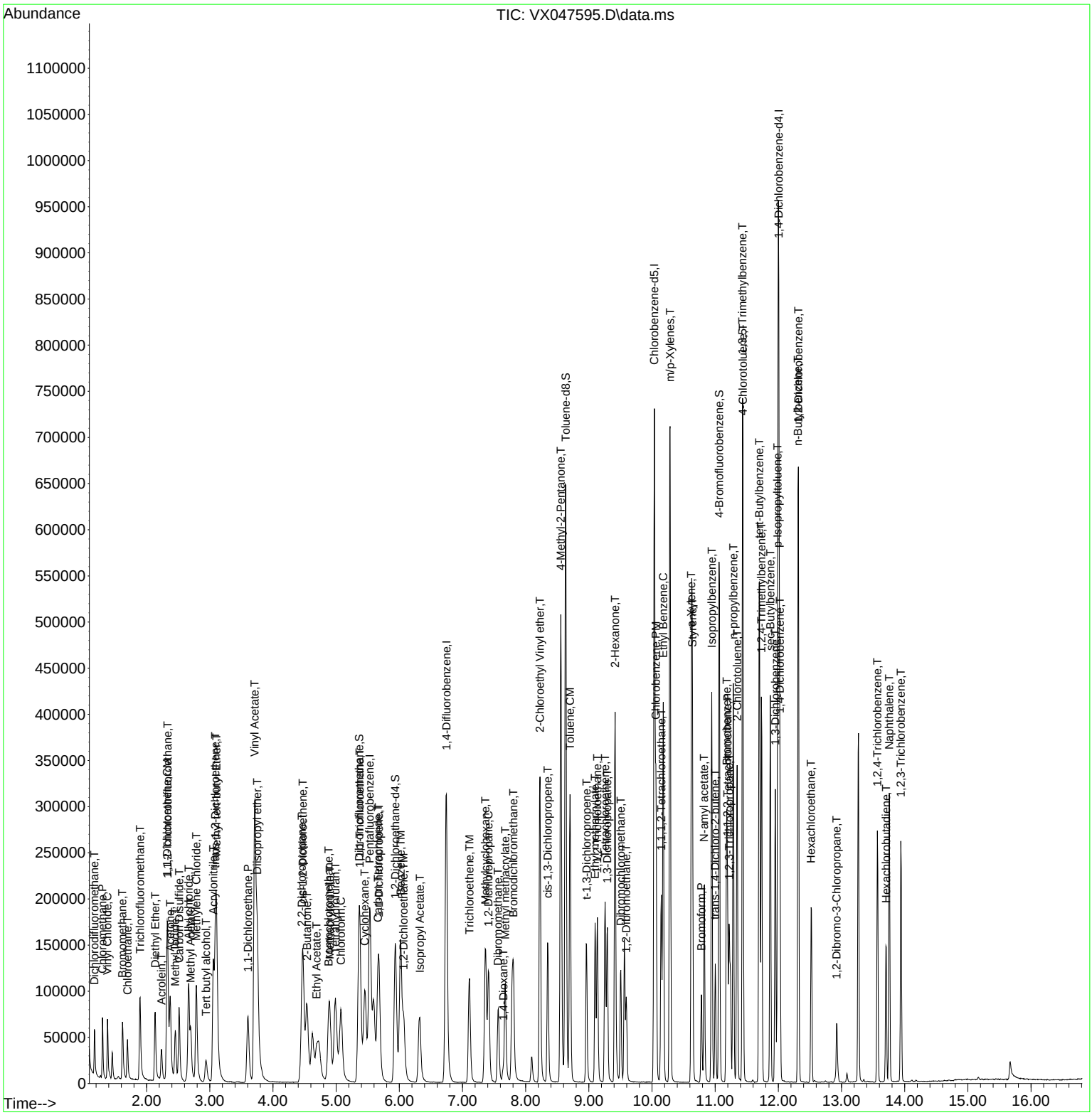
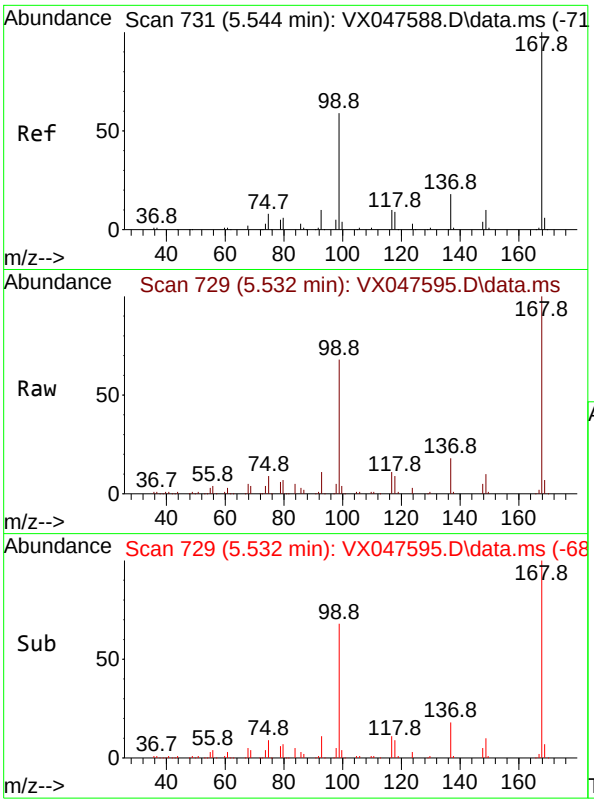
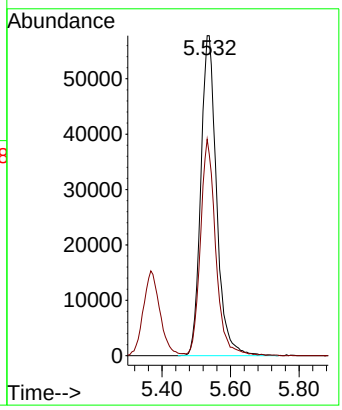




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:168 Resp: 18471

Ion	Ratio	Lower	Upper
168	100		
99	67.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
APPROVED

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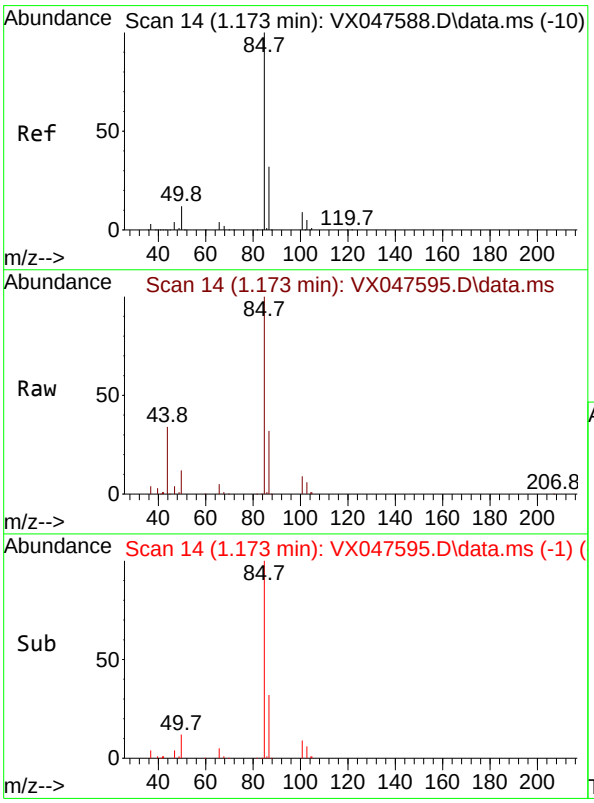
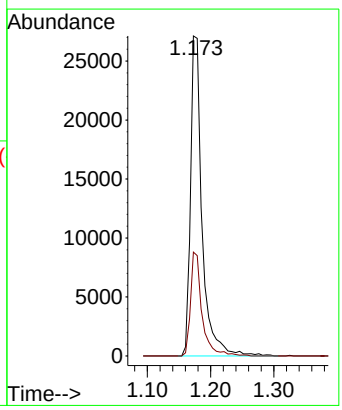
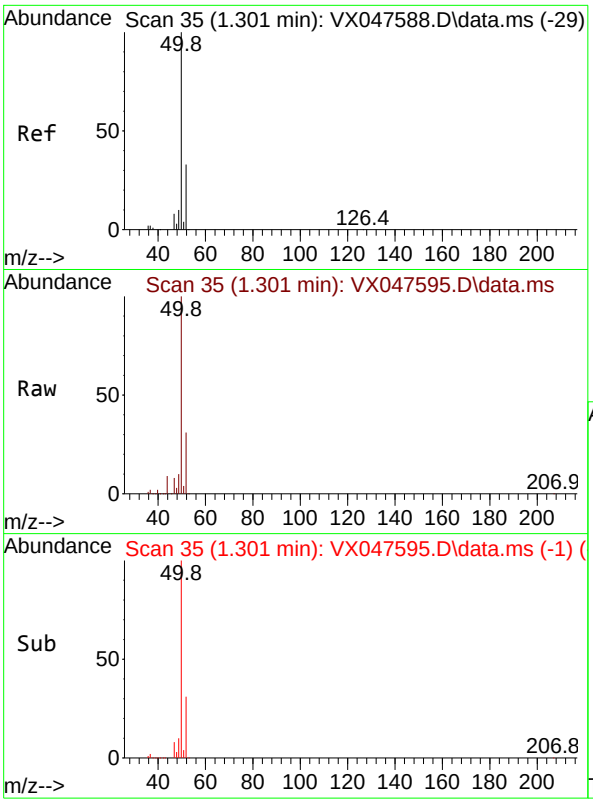


#2
Dichlorodifluoromethane
Concen: 18.016 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 85 Resp: 34459

Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.8	47.3

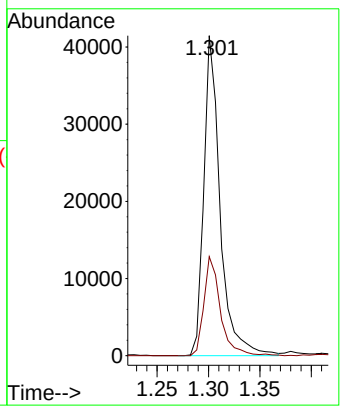




#3
Chloromethane
Concen: 18.256 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 50 Resp: 4589

Ion	Ratio	Lower	Upper
50	100		
52	31.0	26.1	39.1



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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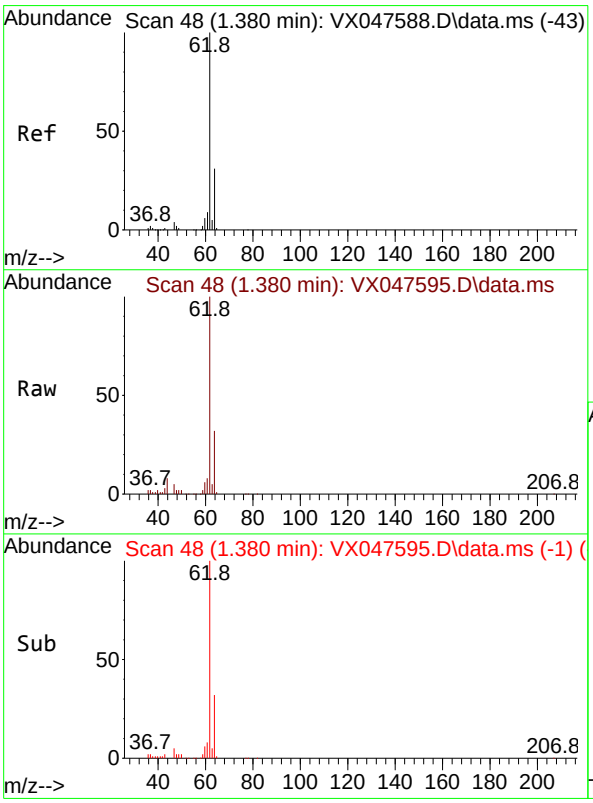
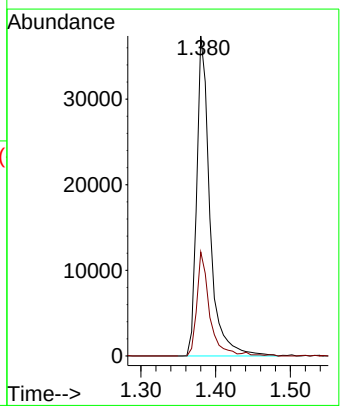
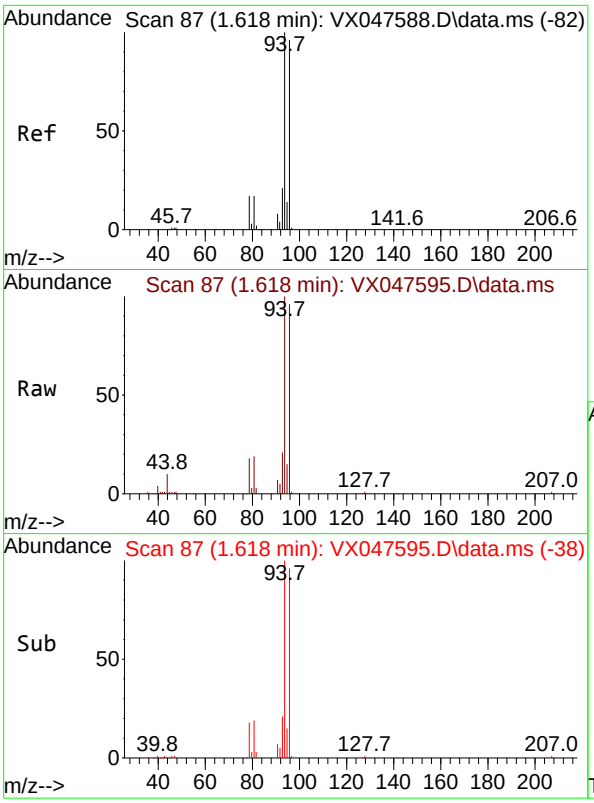


#4
Vinyl Chloride
Concen: 18.573 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 62 Resp: 45703

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.9	37.3

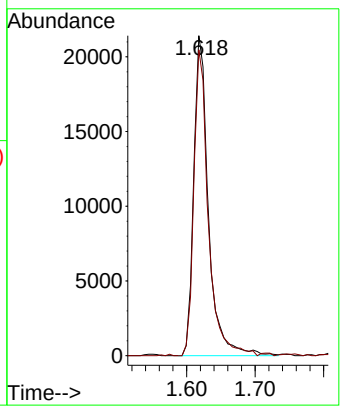




#5
Bromomethane
Concen: 20.556 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 94 Resp: 3207

Ion	Ratio	Lower	Upper
94	100		
96	96.7	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

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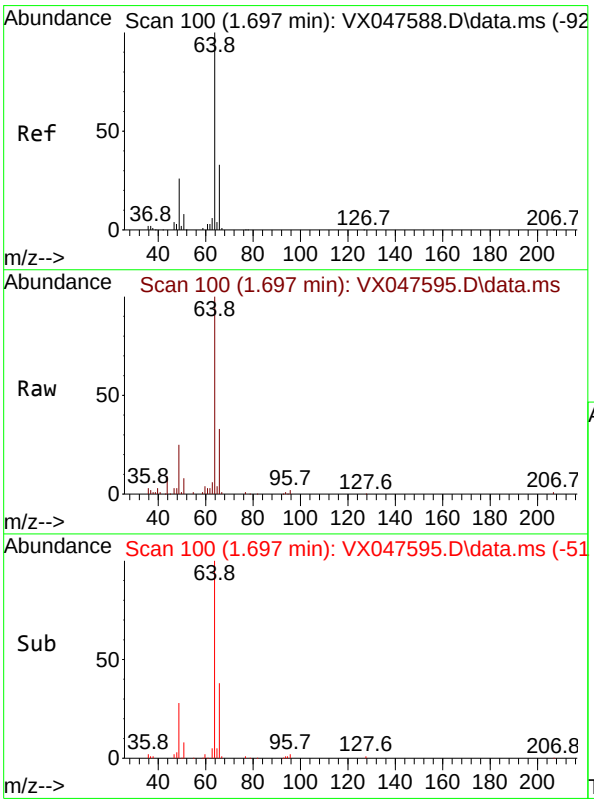
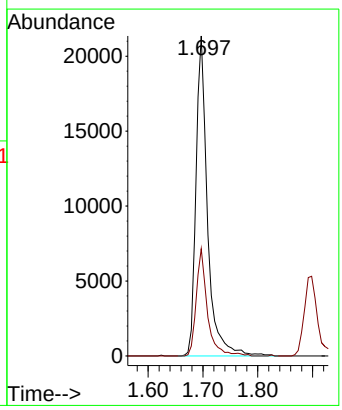
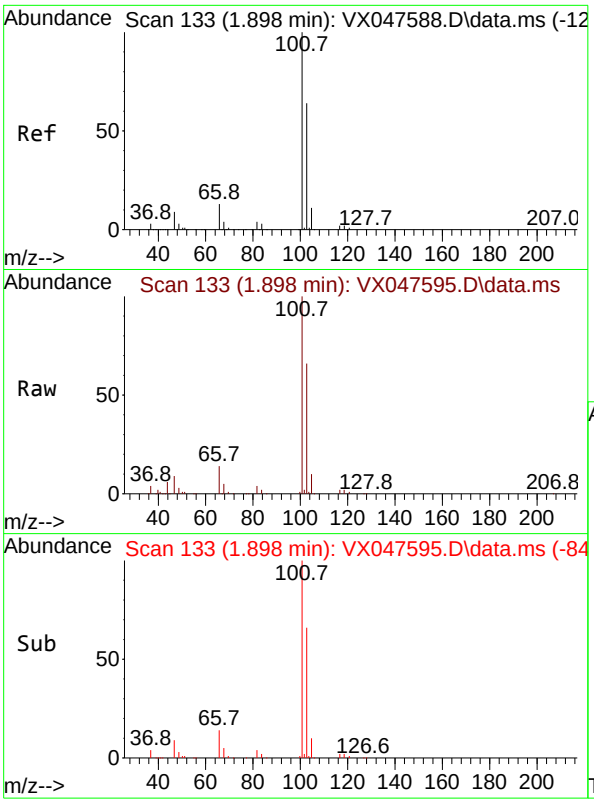


#6
Chloroethane
Concen: 19.066 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 64 Resp: 31358

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.1	39.1

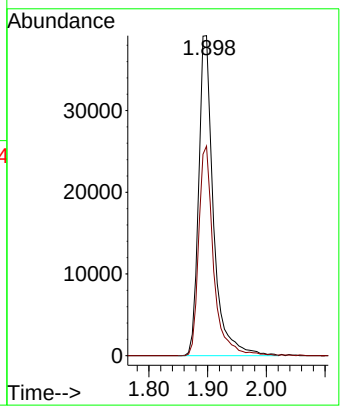




#7
Trichlorofluoromethane
Concen: 18.767 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:101 Resp: 6856

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
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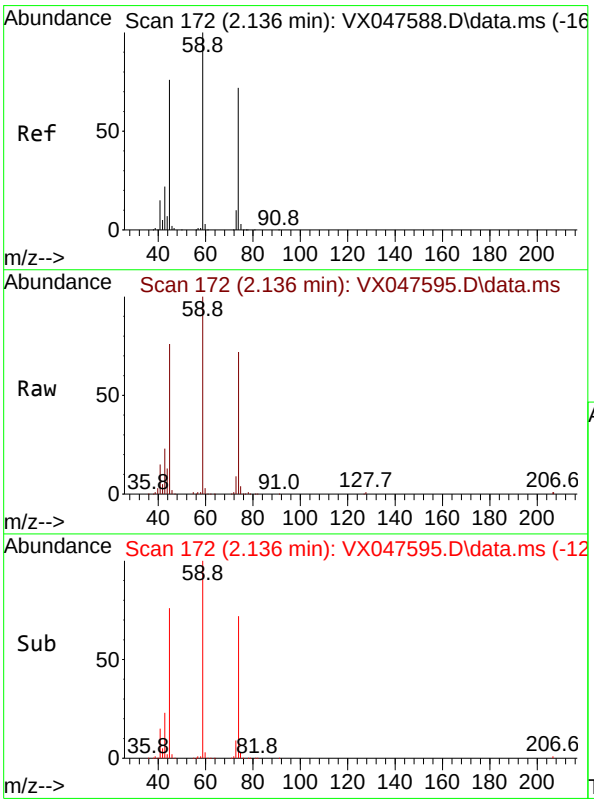
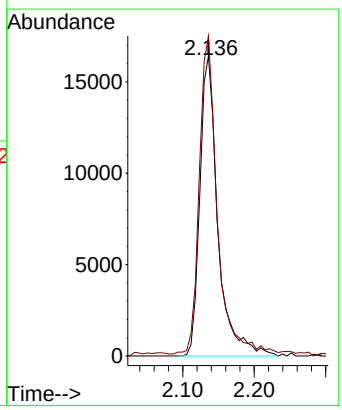
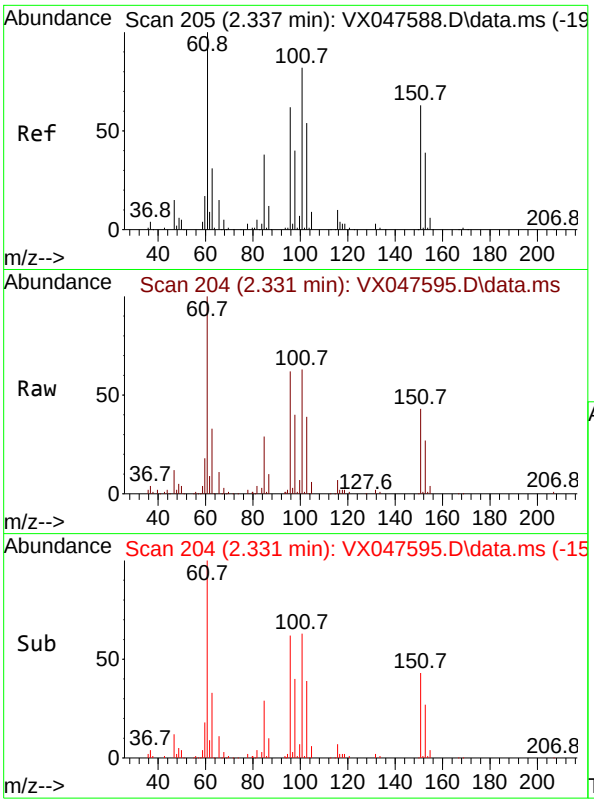


#8
Diethyl Ether
Concen: 19.195 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 74 Resp: 28689

Ion	Ratio	Lower	Upper
74	100		
45	105.7	52.3	156.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.333 ug/l
RT: 2.331 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:101 Resp: 4130

Ion	Ratio	Lower	Upper
101	100		
85	46.1	35.5	53.3
151	72.0	59.4	89.0

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
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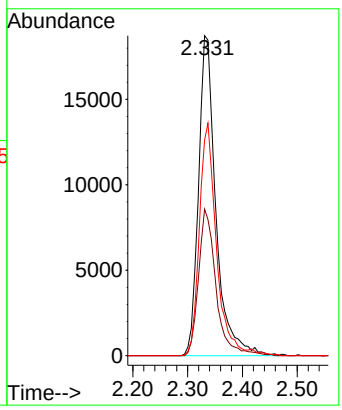
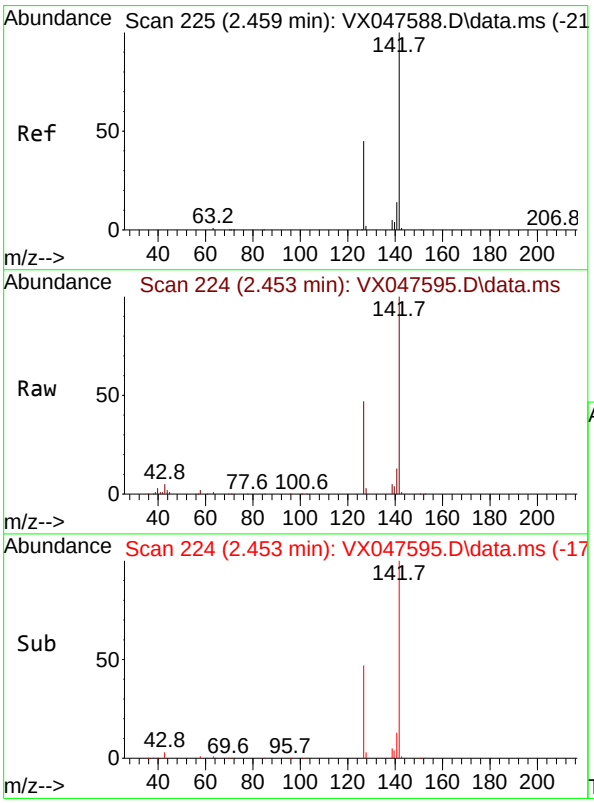
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

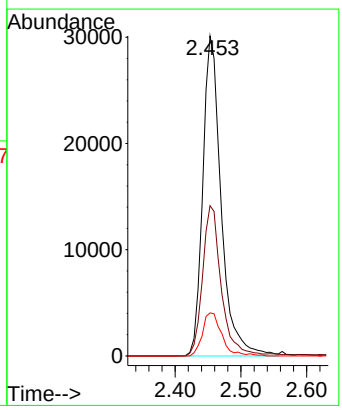


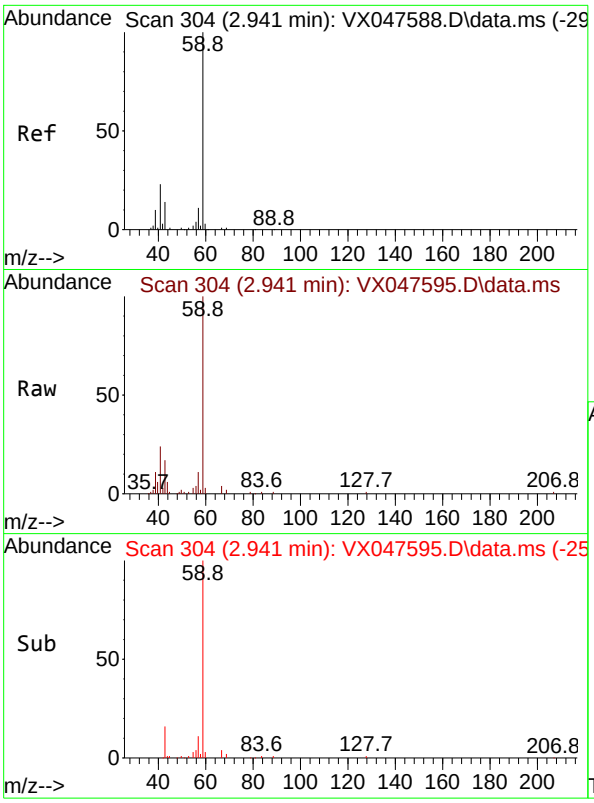


#10
Methyl Iodide
Concen: 17.587 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:142 Resp: 58598

Ion	Ratio	Lower	Upper
142	100		
127	47.5	37.2	55.8
141	14.2	11.4	17.0

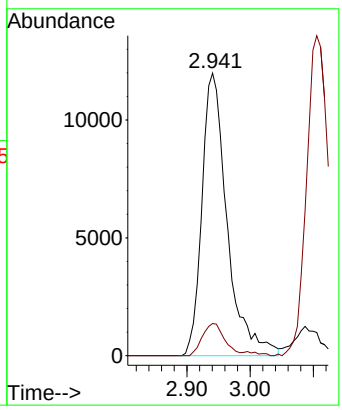




#11
Tert butyl alcohol
Concen: 101.438 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 59 Resp: 3321

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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Reviewed By :John Carlone 09/17/2025
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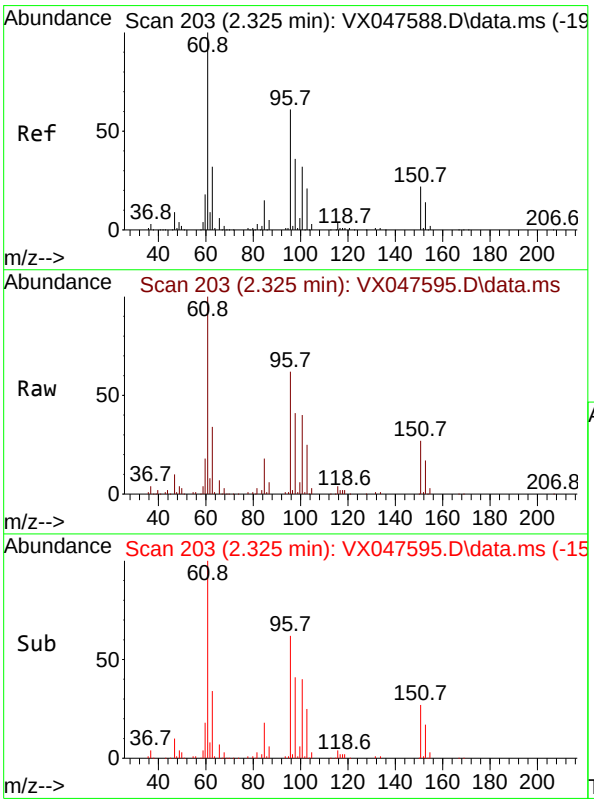
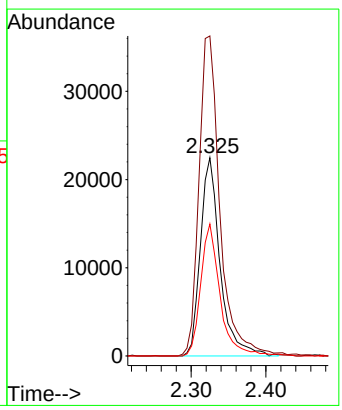
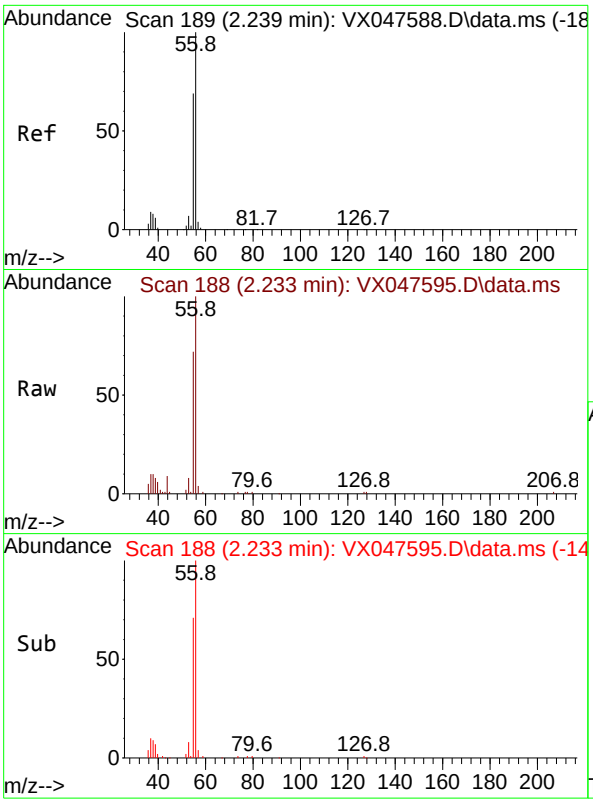


#12
1,1-Dichloroethene
Concen: 18.775 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 96 Resp: 41202

Ion	Ratio	Lower	Upper
96	100		
61	155.3	131.0	196.6
98	64.1	47.7	71.5

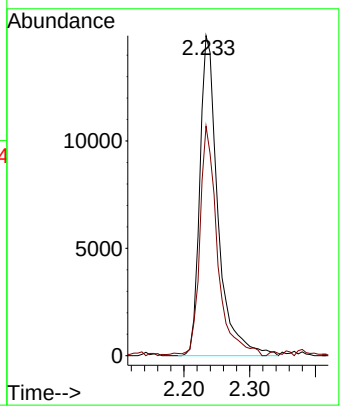




#13
Acrolein
Concen: 94.428 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 56 Resp: 2849

Ion	Ratio	Lower	Upper
56	100		
55	70.1	57.2	85.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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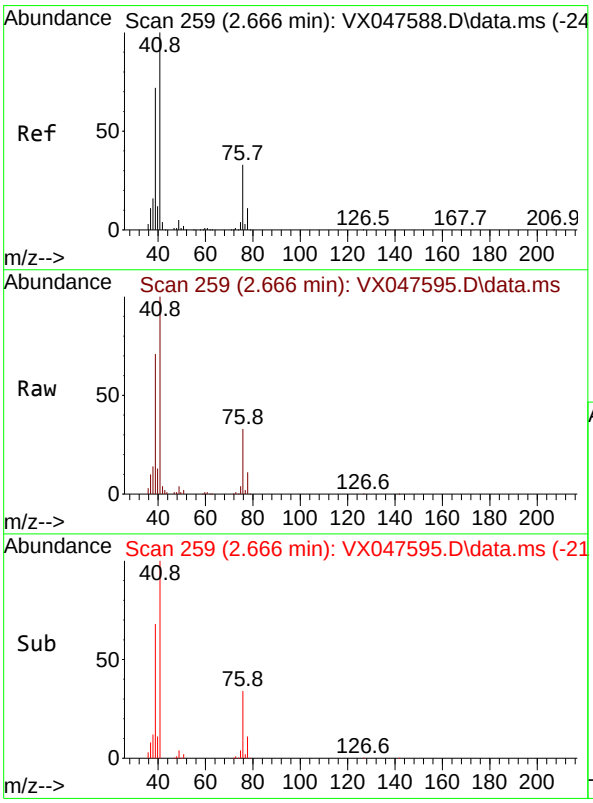
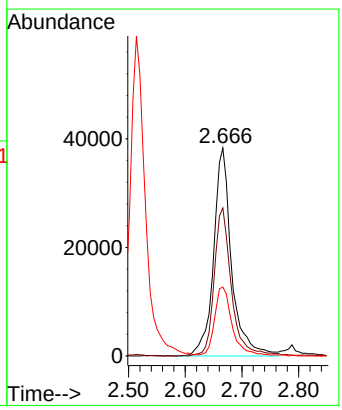
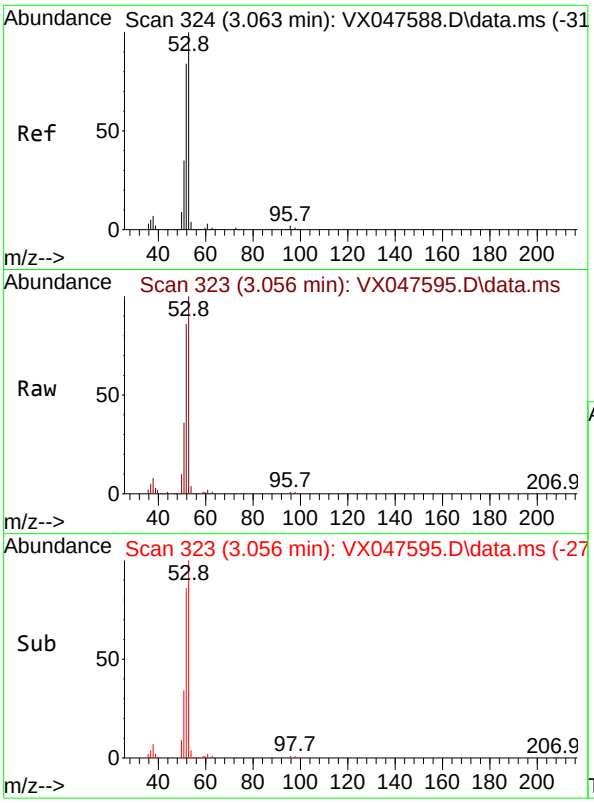


#14
Allyl chloride
Concen: 18.738 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 41 Resp: 84854

Ion	Ratio	Lower	Upper
41	100		
39	68.2	54.7	82.1
76	32.5	25.7	38.5

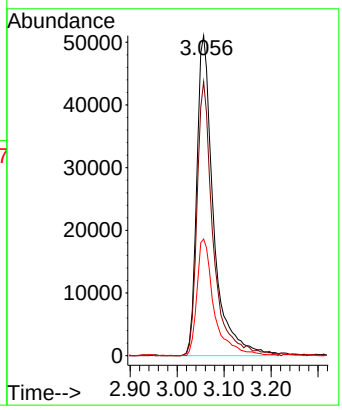




#15
Acrylonitrile
Concen: 104.688 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 53 Resp: 12697

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	37.4	29.5	44.3



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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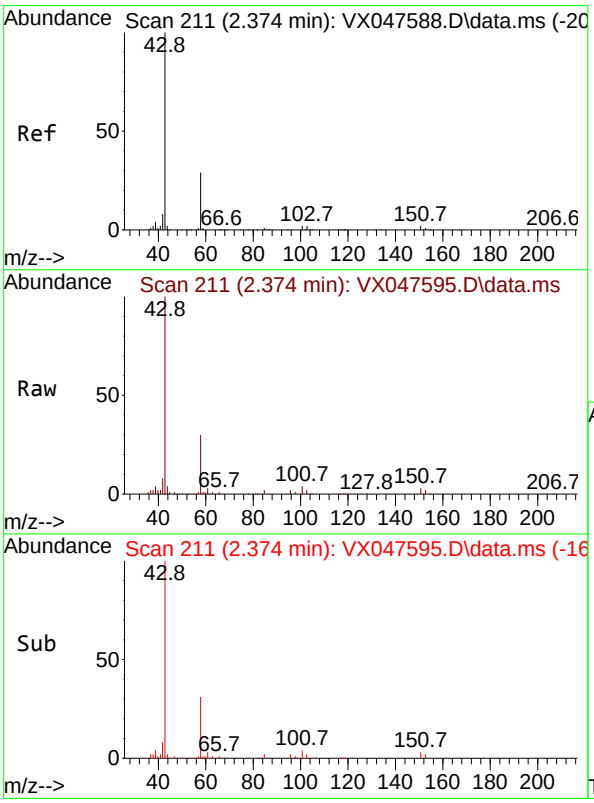
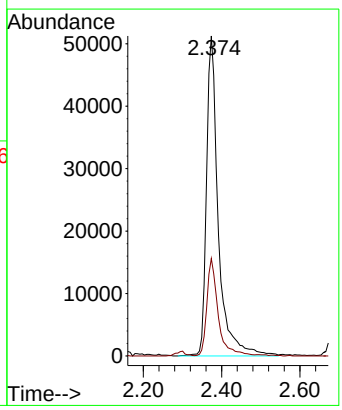
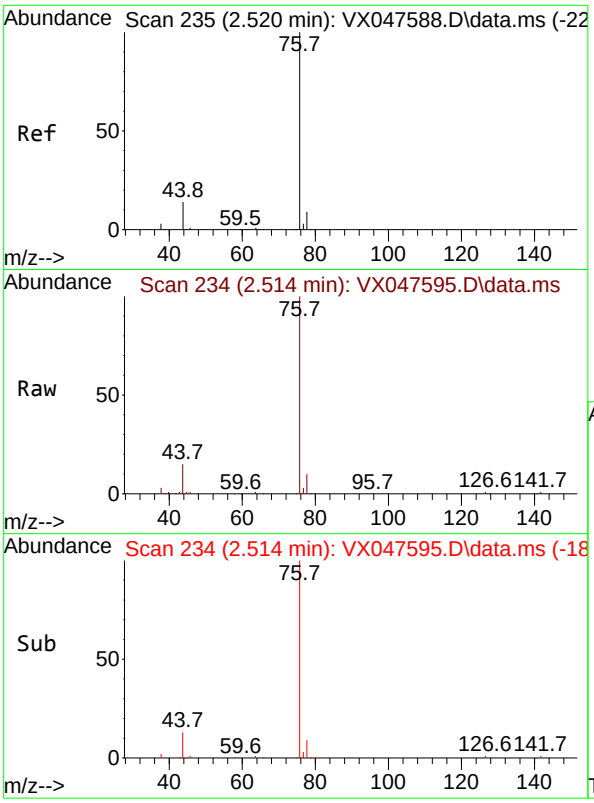


#16
Acetone
Concen: 83.700 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 107000

Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0





#17
Carbon Disulfide
Concen: 18.062 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 76 Resp: 10851

Ion	Ratio	Lower	Upper
76	100		
78	9.5	6.8	10.2

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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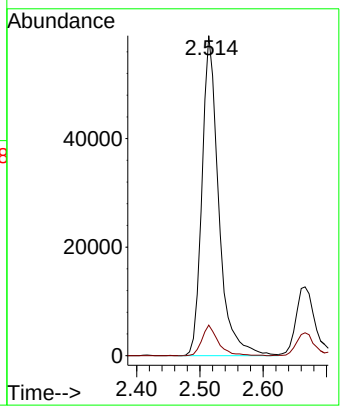
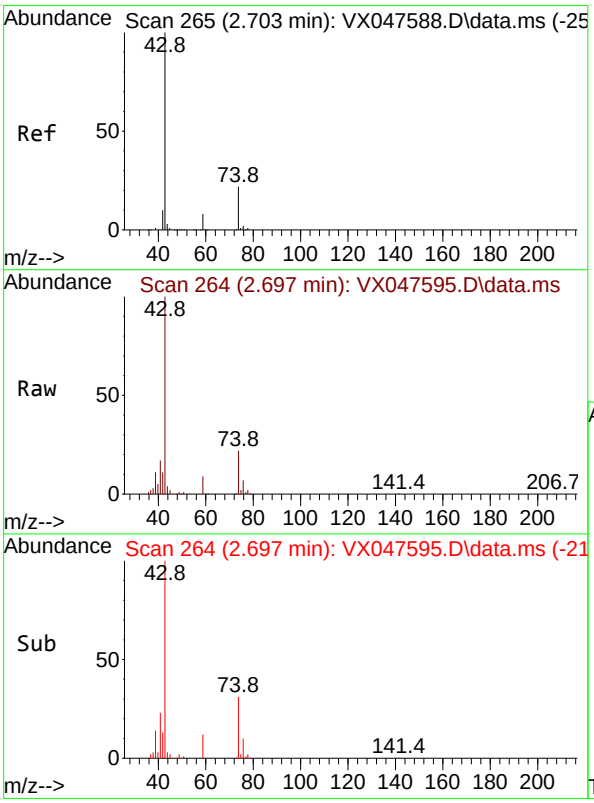
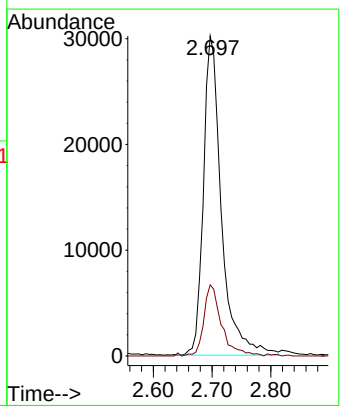


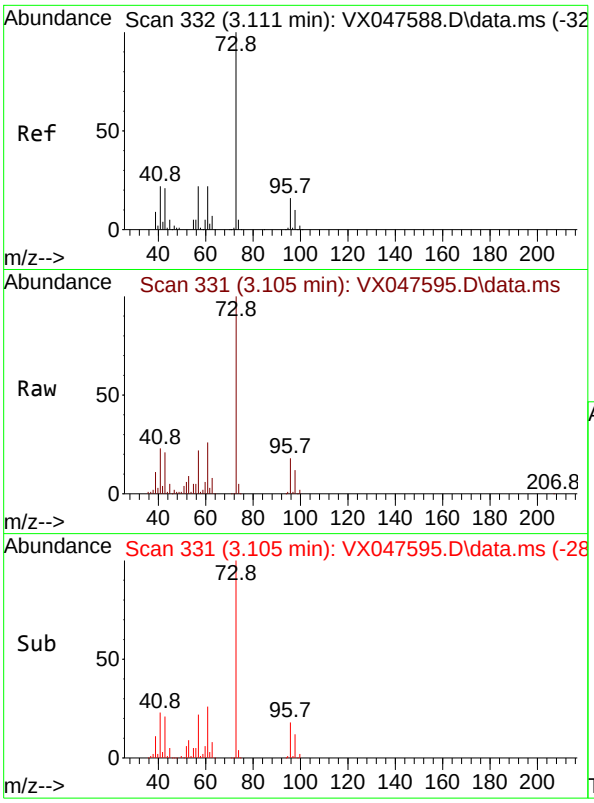


#18
Methyl Acetate
Concen: 22.635 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 64398

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2

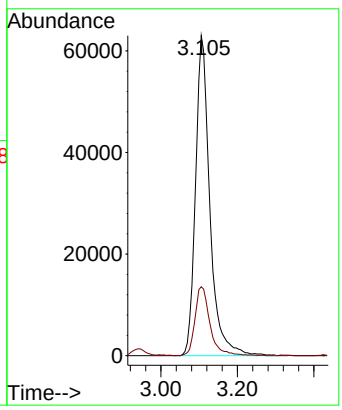




#19
Methyl tert-butyl Ether
Concen: 20.461 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 73 Resp: 16391

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
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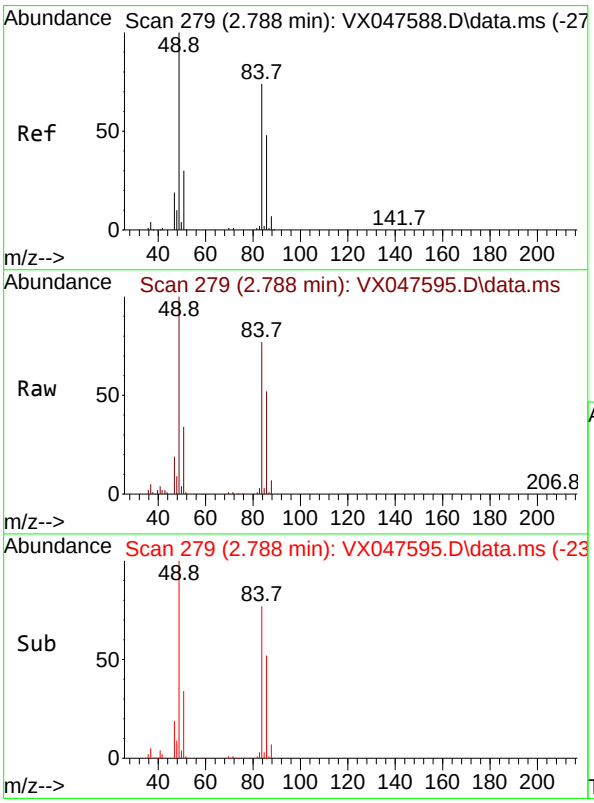
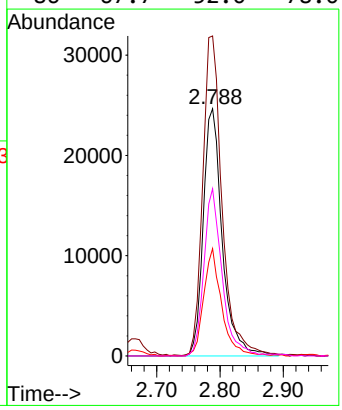
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

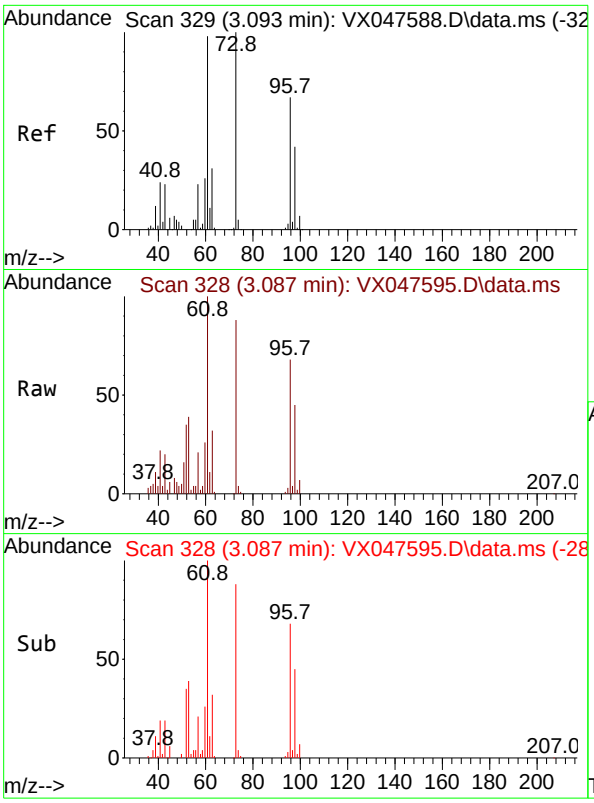


#20
Methylene Chloride
Concen: 19.096 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 84 Resp: 51674

Ion	Ratio	Lower	Upper
84	100		
49	129.2	108.6	162.8
51	43.4	32.6	48.8
86	67.7	52.0	78.0

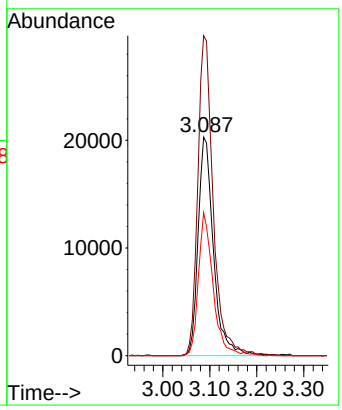




#21
trans-1,2-Dichloroethene
Concen: 19.637 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 96 Resp: 4639

Ion	Ratio	Lower	Upper
96	100		
61	146.4	116.2	174.2
98	65.4	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
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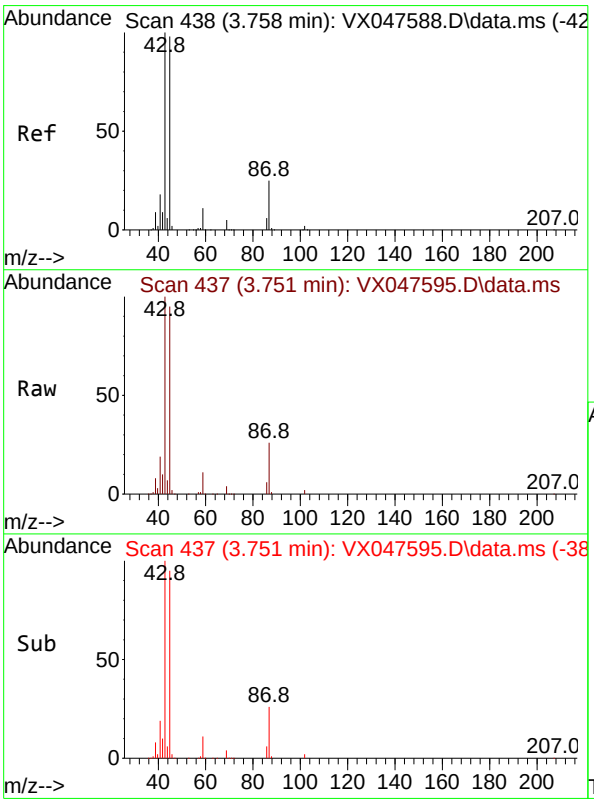
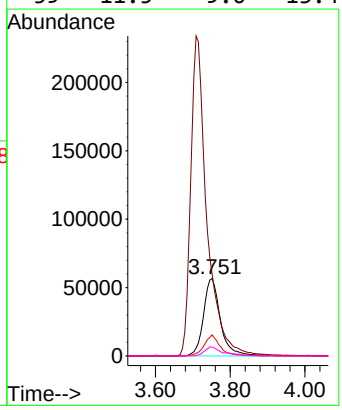
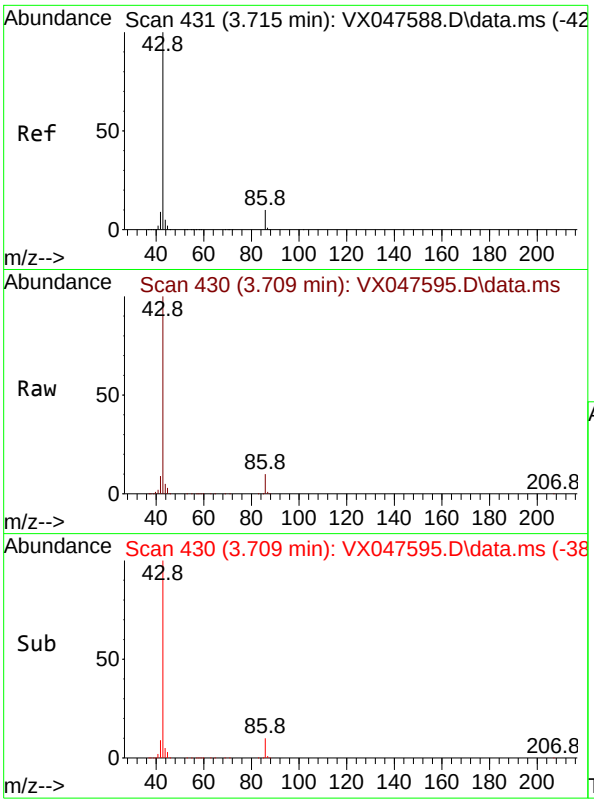


#22
Diisopropyl ether
Concen: 20.307 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 45 Resp: 178221

Ion	Ratio	Lower	Upper
45	100		
43	105.2	81.0	121.4
87	27.2	20.3	30.5
59	11.5	9.0	13.4

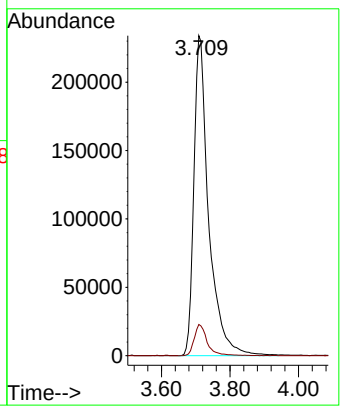




#23
Vinyl Acetate
Concen: 100.074 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 70294

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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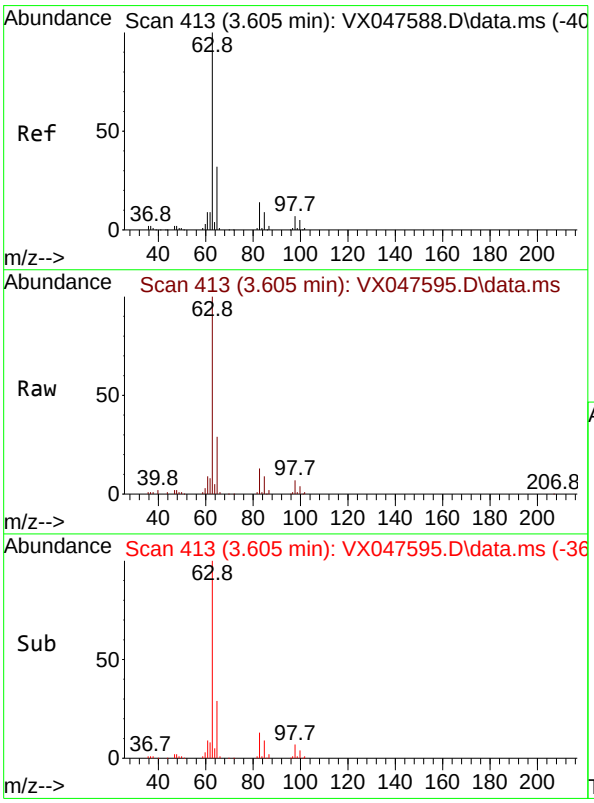
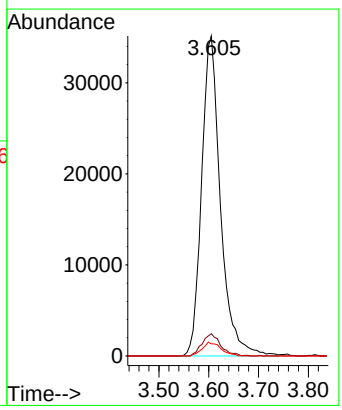
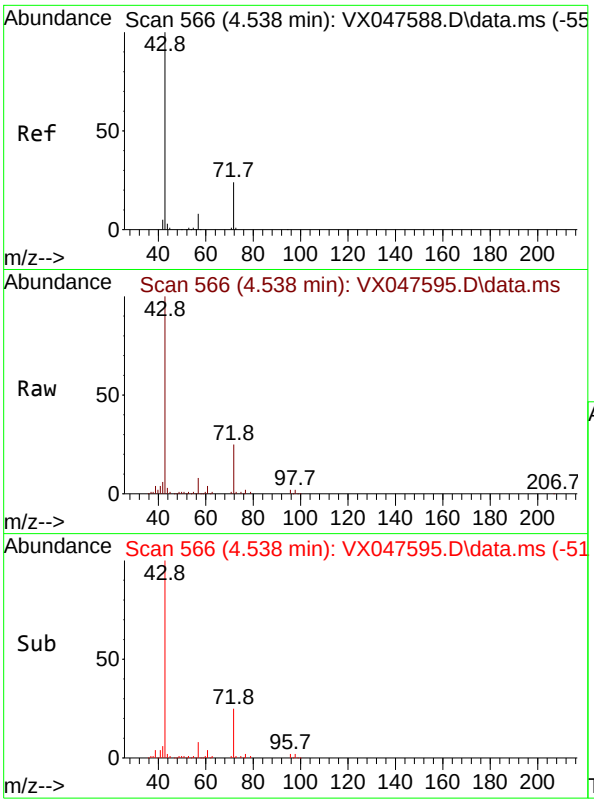


#24
1,1-Dichloroethane
Concen: 19.764 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 63 Resp: 92195

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	3.8	2.3	6.9





#25
2-Butanone
Concen: 100.998 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 16105

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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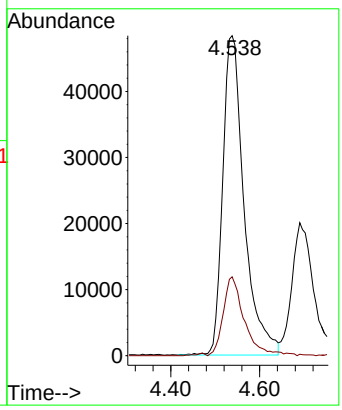
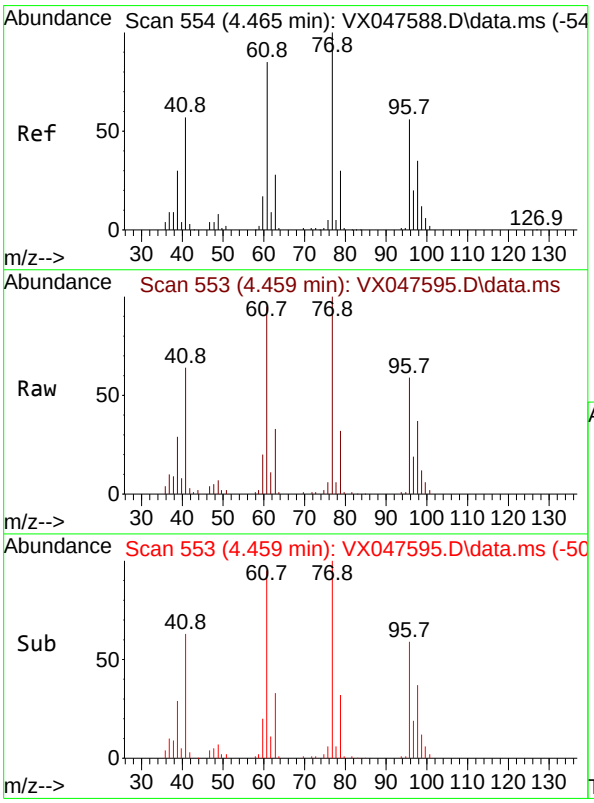
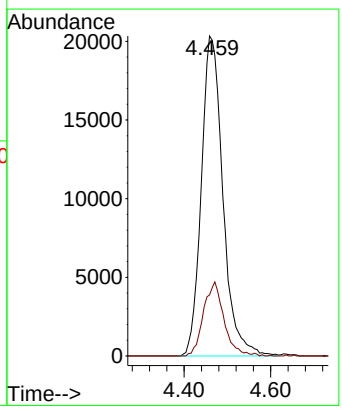


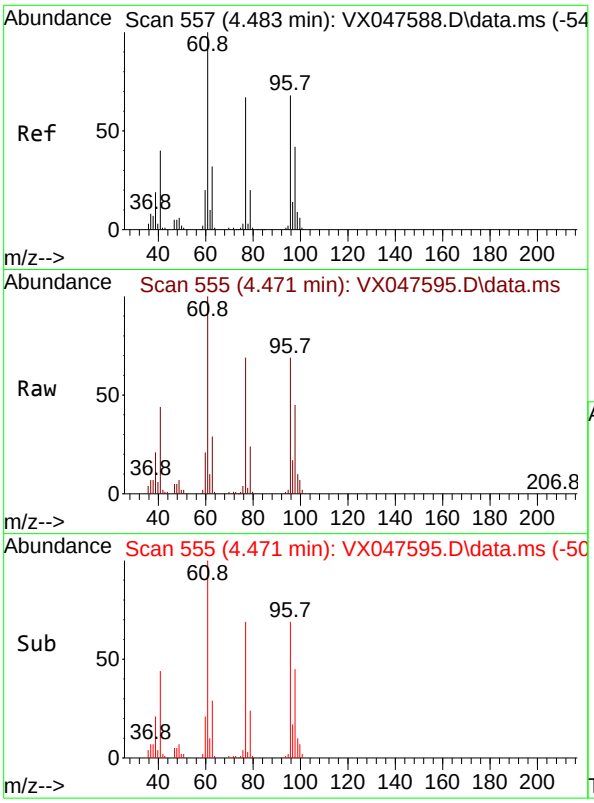


#26
2,2-Dichloropropane
Concen: 18.145 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 77 Resp: 70359

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.9	32.7

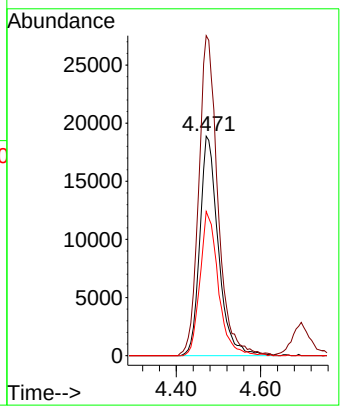




#27
cis-1,2-Dichloroethene
Concen: 19.884 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 96 Resp: 5753

Ion	Ratio	Lower	Upper
96	100		
61	151.1	0.0	303.2
98	64.9	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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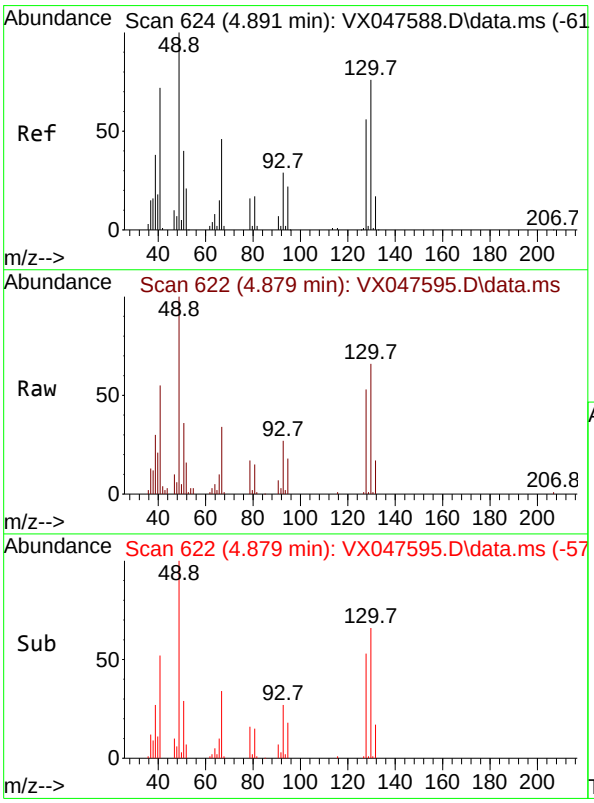
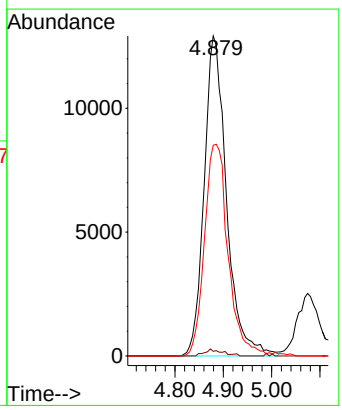
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

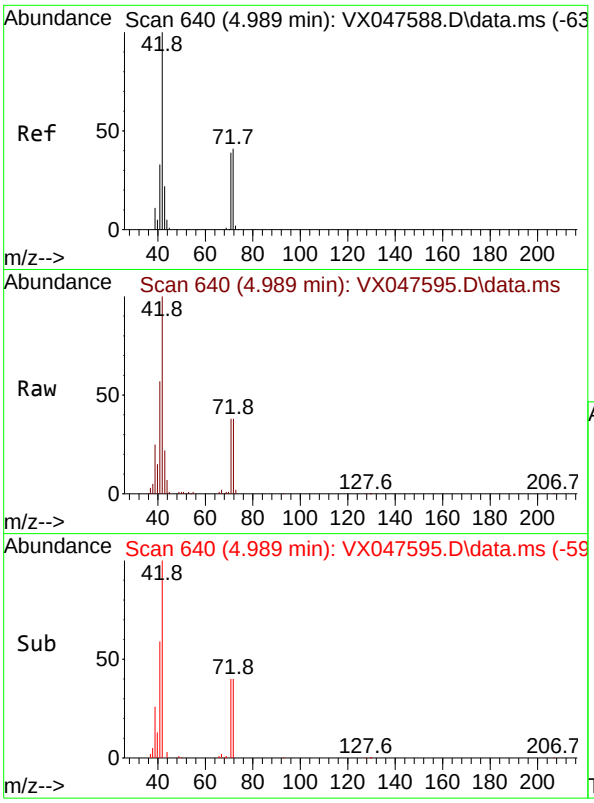


#28
Bromochloromethane
Concen: 20.400 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 49 Resp: 41545

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.2
130	69.6	57.8	86.8

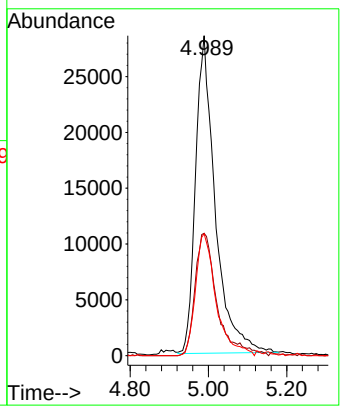




#29
Tetrahydrofuran
Concen: 103.635 ug/l
RT: 4.989 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 42 Resp: 9941

Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	40.1	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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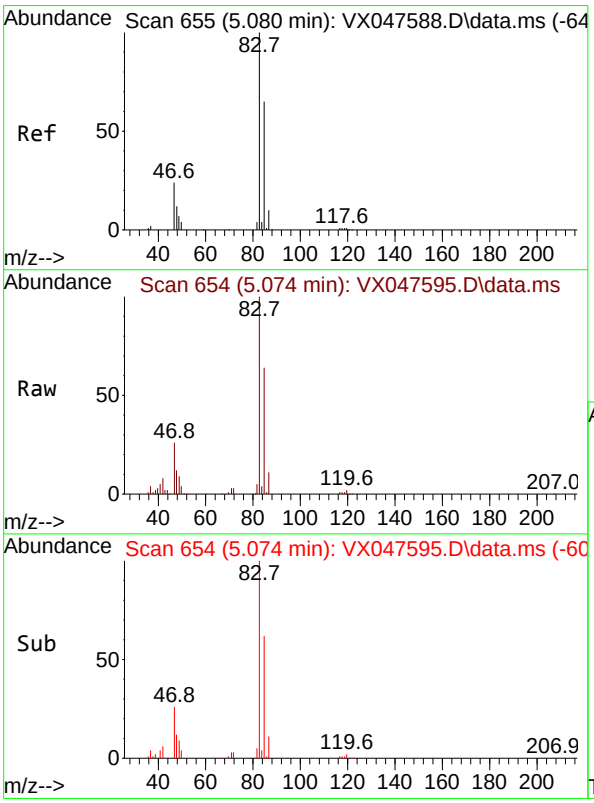
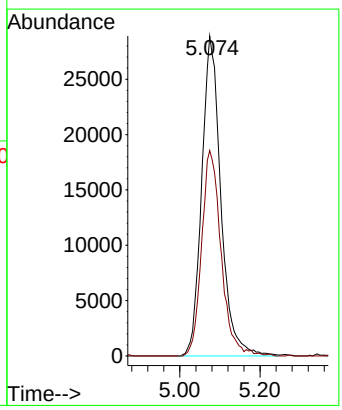
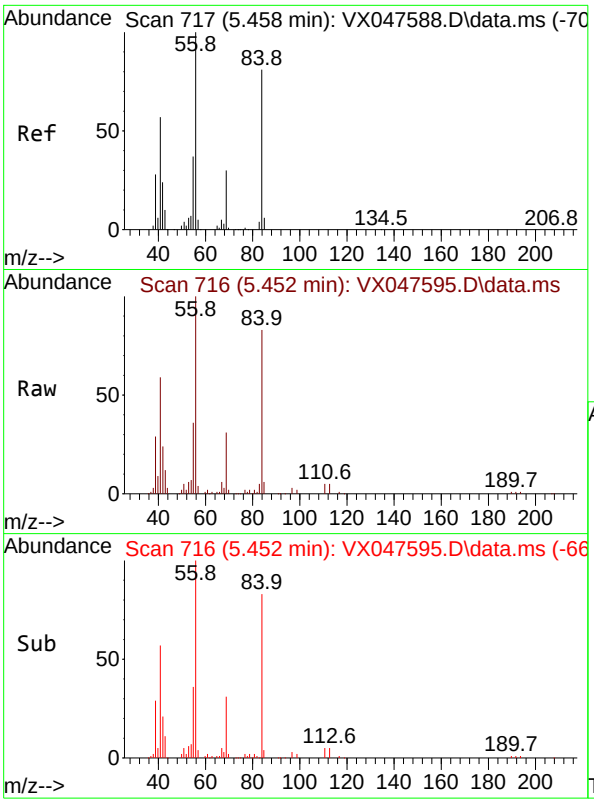


#30
Chloroform
Concen: 20.325 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 83 Resp: 95809

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6





#31
Cyclohexane
Concen: 19.710 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 56 Resp: 7657

Ion	Ratio	Lower	Upper
56	100		
69	30.3	23.8	35.8
84	81.0	64.6	97.0

Instrument :
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ClientSampleId :
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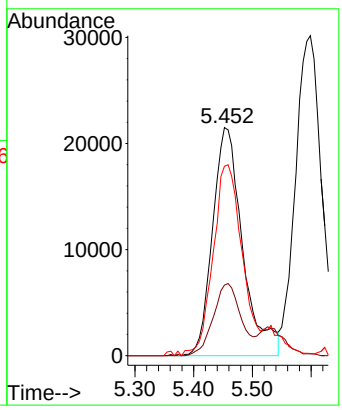
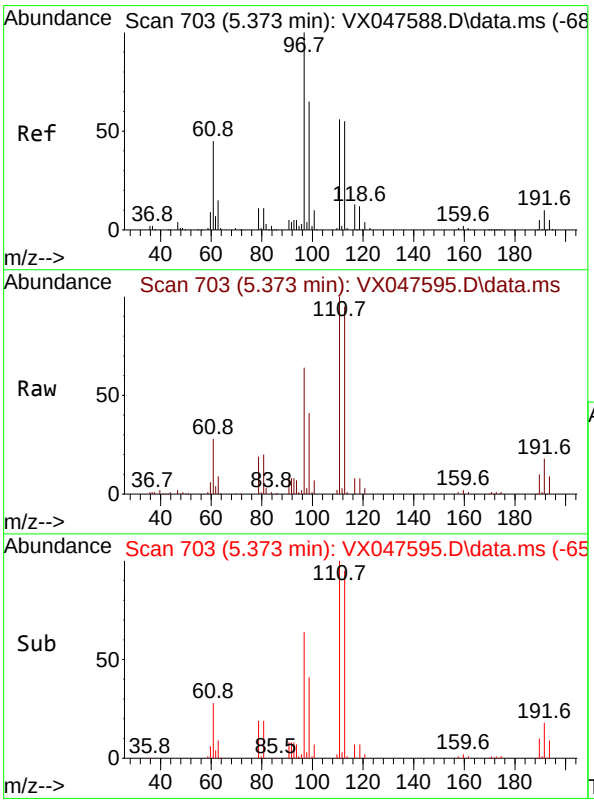
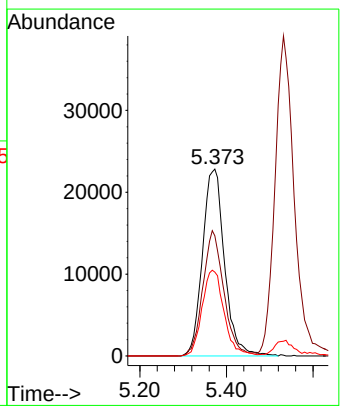


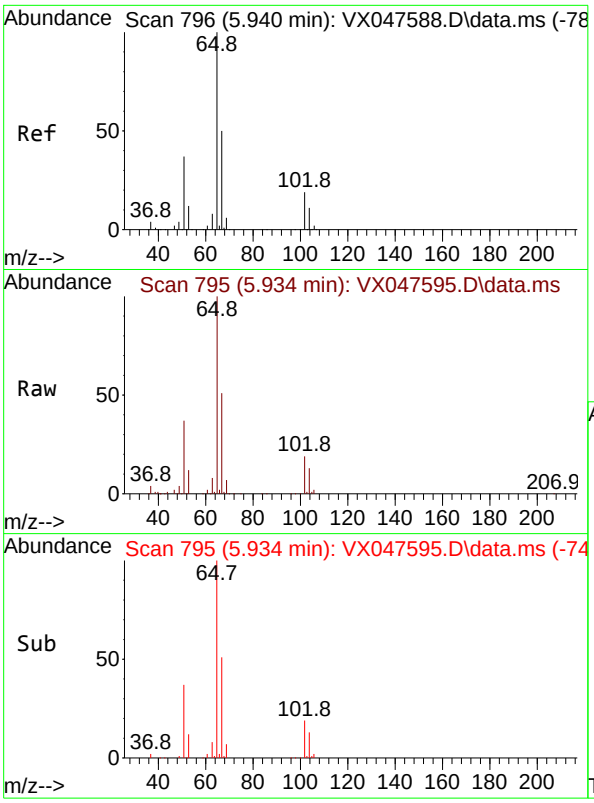


#32
1,1,1-Trichloroethane
Concen: 20.163 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 97 Resp: 80619

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.6	76.0
61	45.7	35.8	53.8

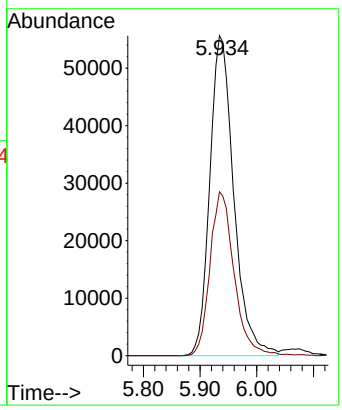




#33
1,2-Dichloroethane-d4
Concen: 55.672 ug/l
RT: 5.934 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 65 Resp: 16368

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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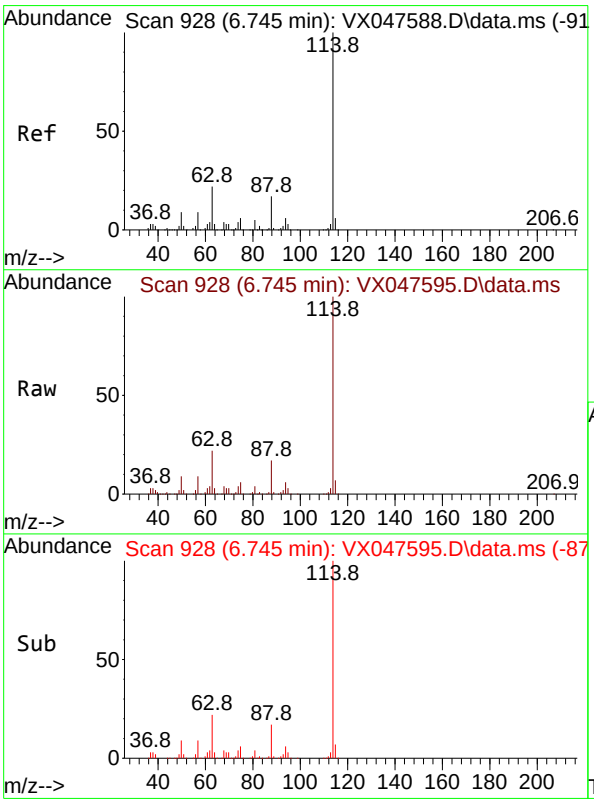
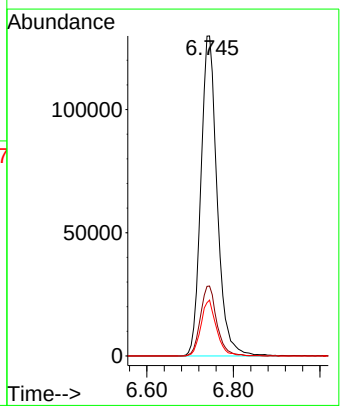
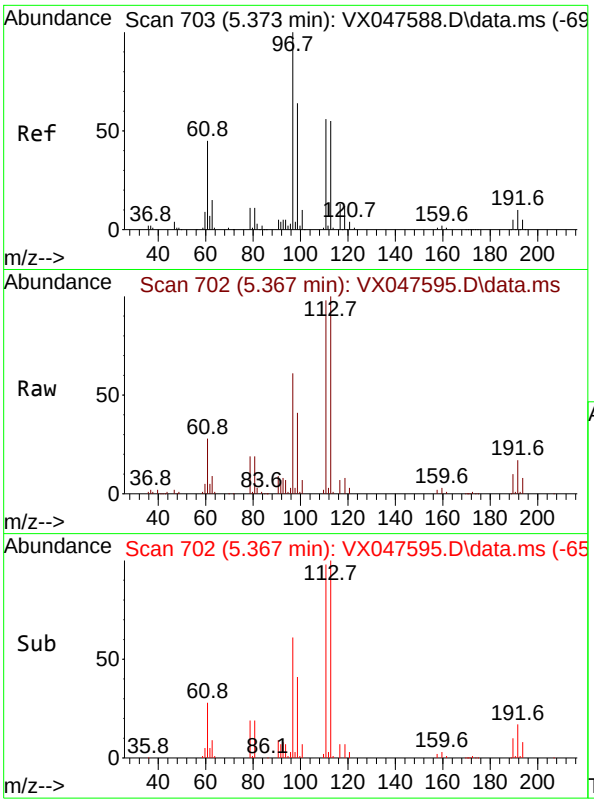


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:114 Resp: 338431

Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	44.0
88	17.4	0.0	34.2

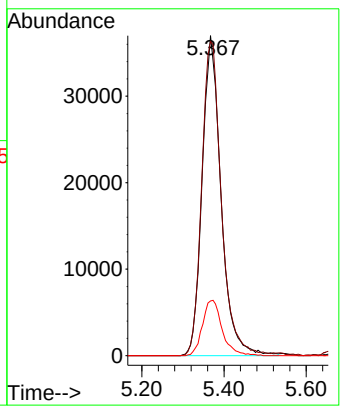




#35
Dibromofluoromethane
Concen: 52.038 ug/l
RT: 5.367 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:113 Resp: 11811

Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.9	121.3
192	18.1	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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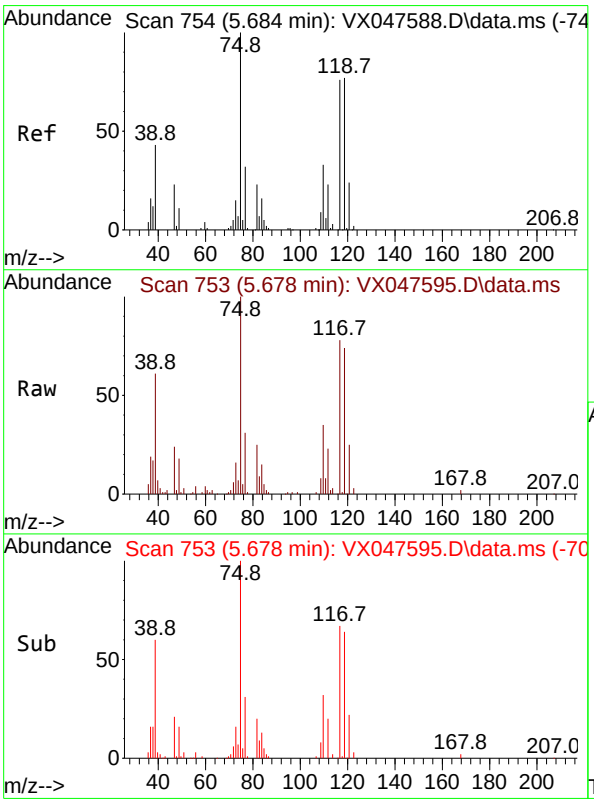
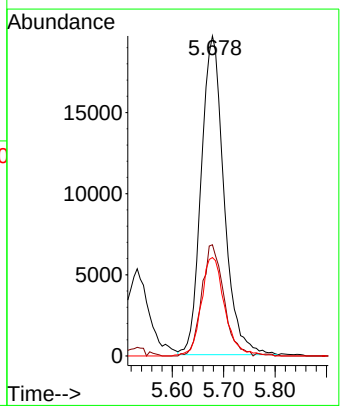
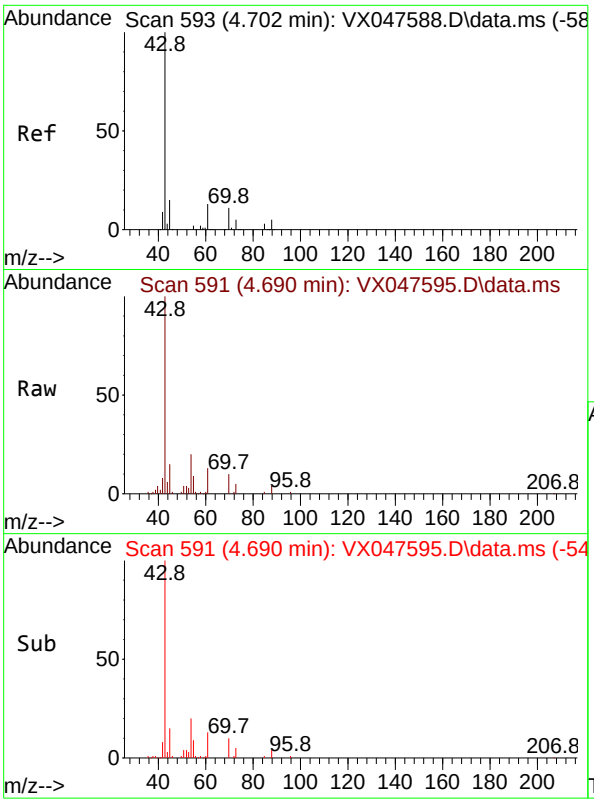


#36
1,1-Dichloropropene
Concen: 18.240 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 60495

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.7	50.1
77	31.8	24.3	36.5

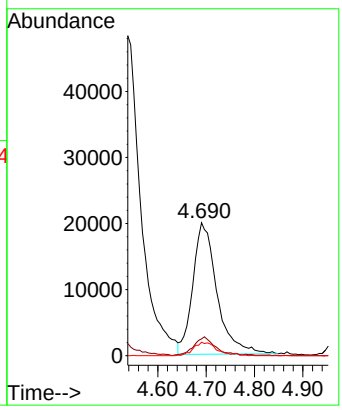




#37
Ethyl Acetate
Concen: 19.440 ug/l
RT: 4.690 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 6903

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.8	14.8
70	9.3	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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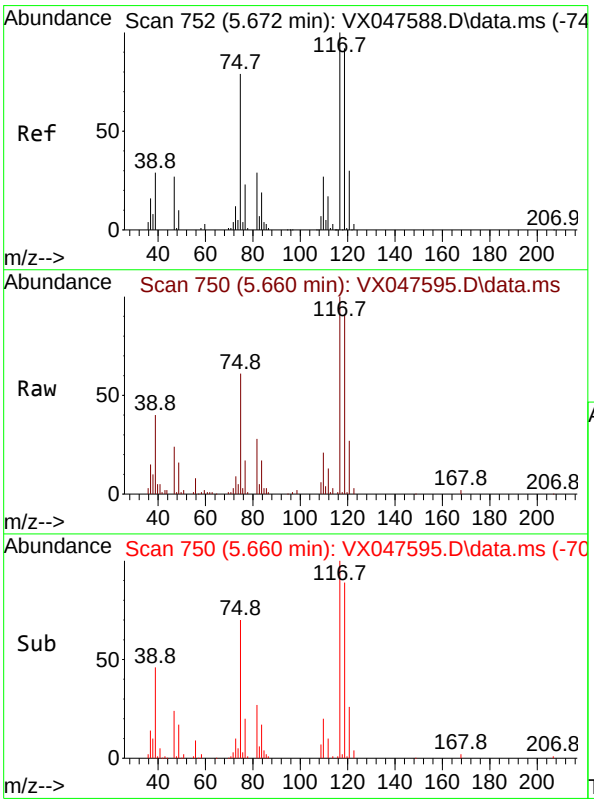
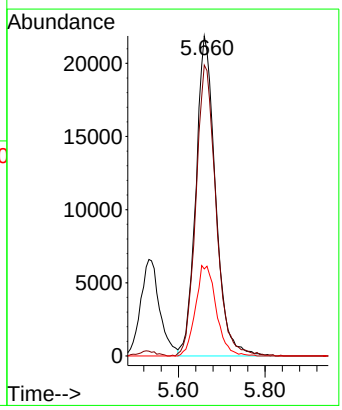
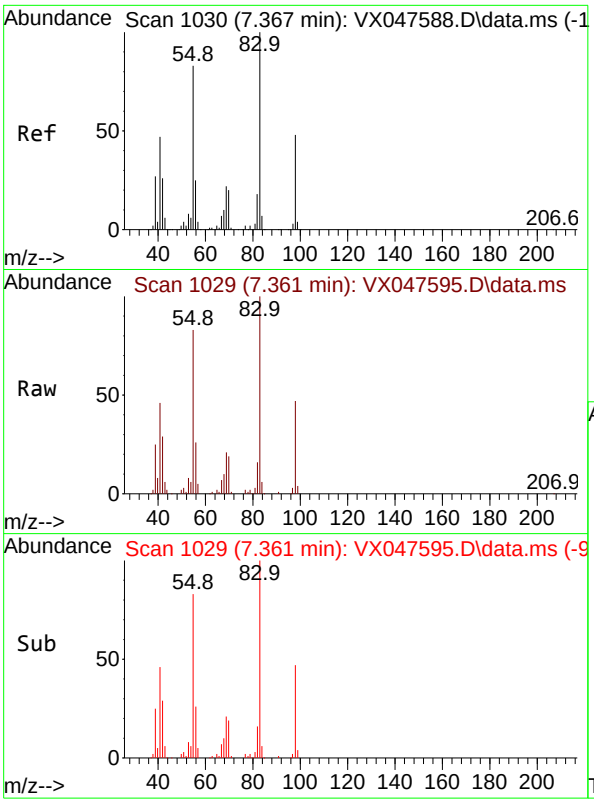


#38
Carbon Tetrachloride
Concen: 19.118 ug/l
RT: 5.660 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:117 Resp: 68892

Ion	Ratio	Lower	Upper
117	100		
119	90.9	73.4	110.2
121	27.2	23.8	35.6

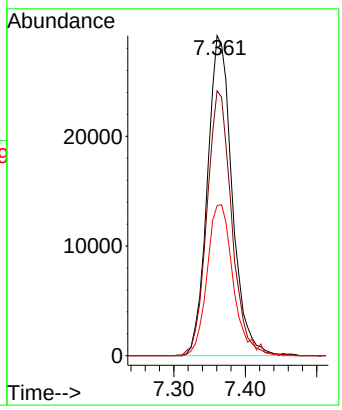




#39
Methylcyclohexane
Concen: 18.583 ug/l
RT: 7.361 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 83 Resp: 6996

Ion	Ratio	Lower	Upper
83	100		
55	82.5	66.4	99.6
98	46.8	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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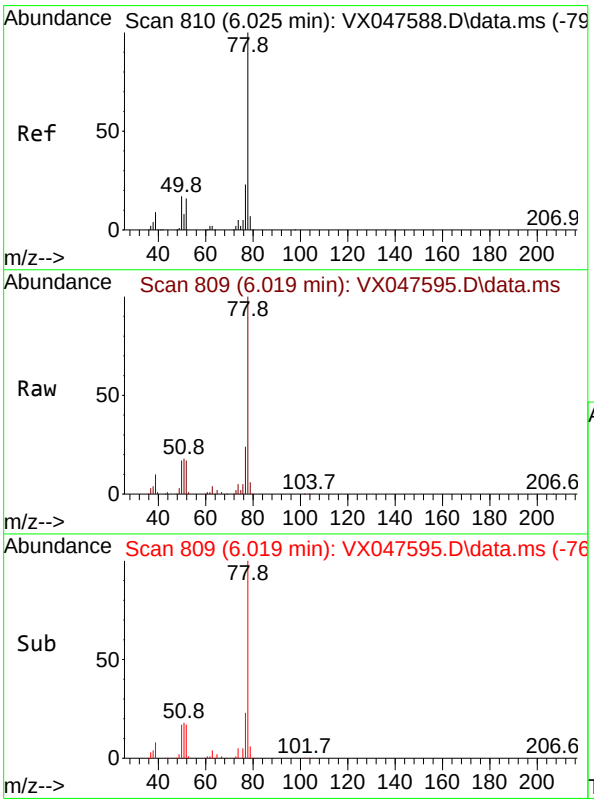
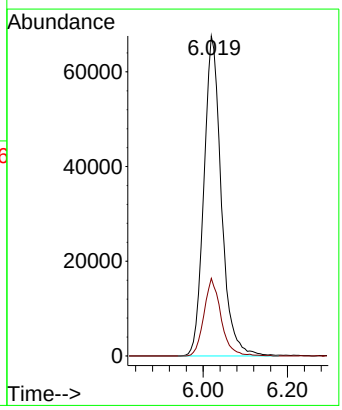
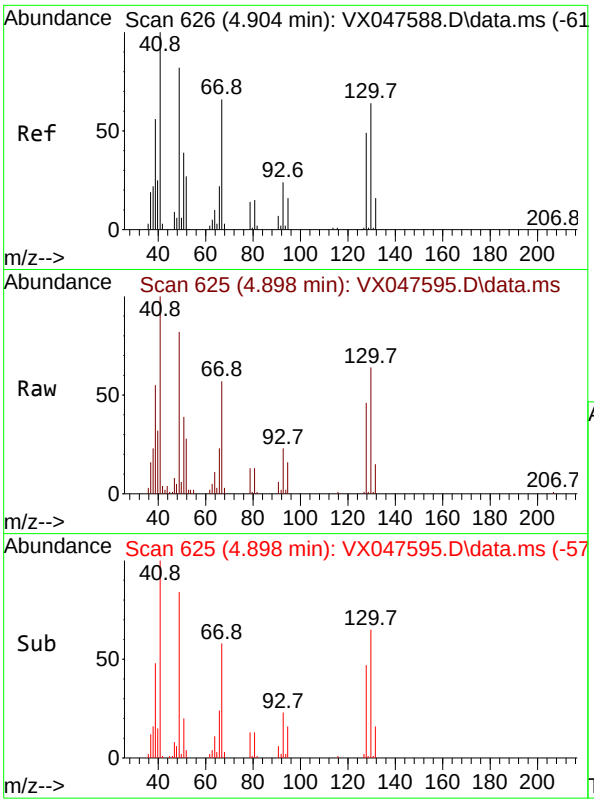


#40
Benzene
Concen: 19.322 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 78 Resp: 194635

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.8	28.2

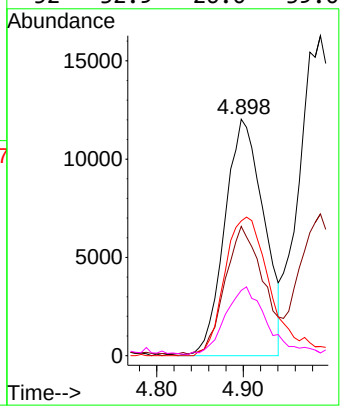




#41
Methacrylonitrile
Concen: 20.552 ug/l
RT: 4.898 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 41 Resp: 3767

Ion	Ratio	Lower	Upper
41	100		
39	53.6	43.3	64.9
67	70.2	58.6	87.8
52	32.9	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
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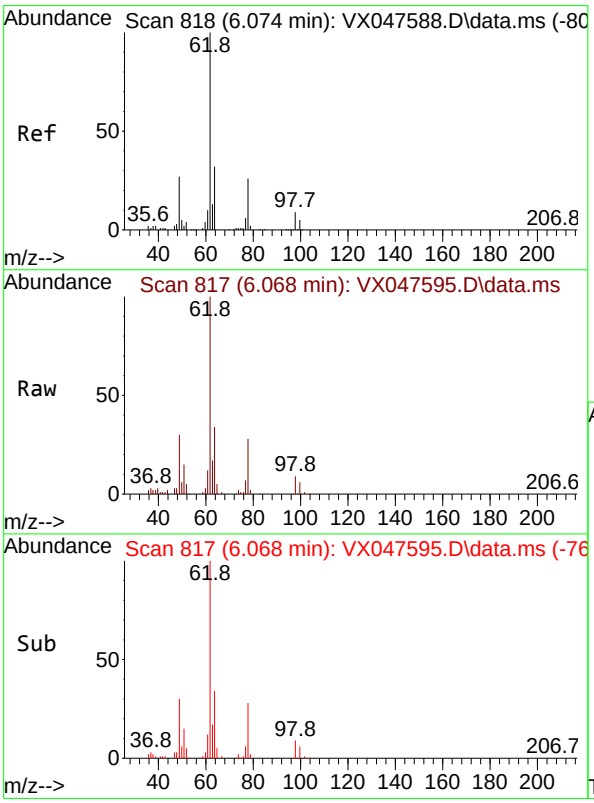
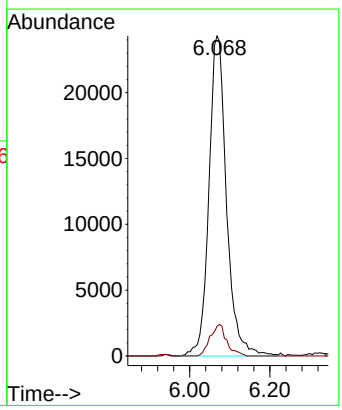
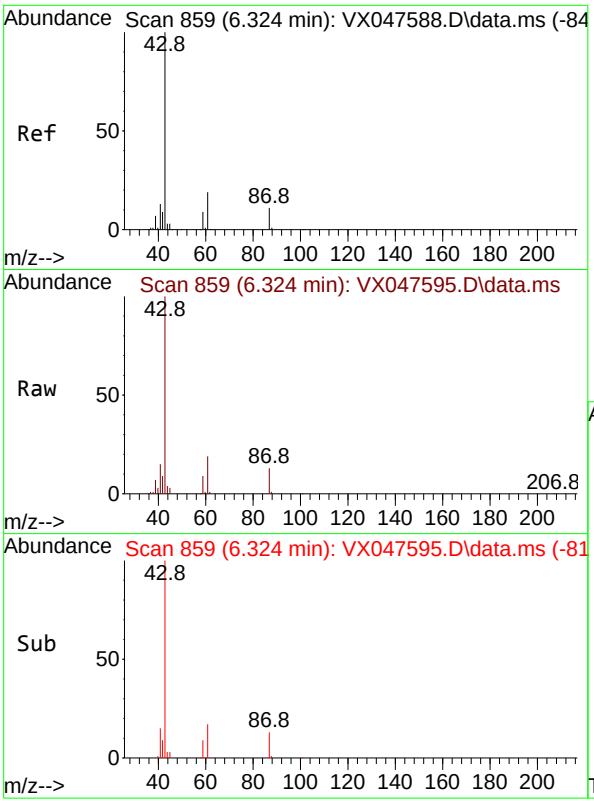


#42
1,2-Dichloroethane
Concen: 19.296 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 62 Resp: 73955

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0

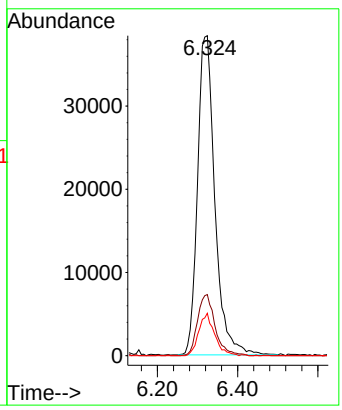




#43
Isopropyl Acetate
Concen: 19.770 ug/l
RT: 6.324 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 11514

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.2	22.8
87	12.1	9.6	14.4



Instrument :
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ClientSampleId :
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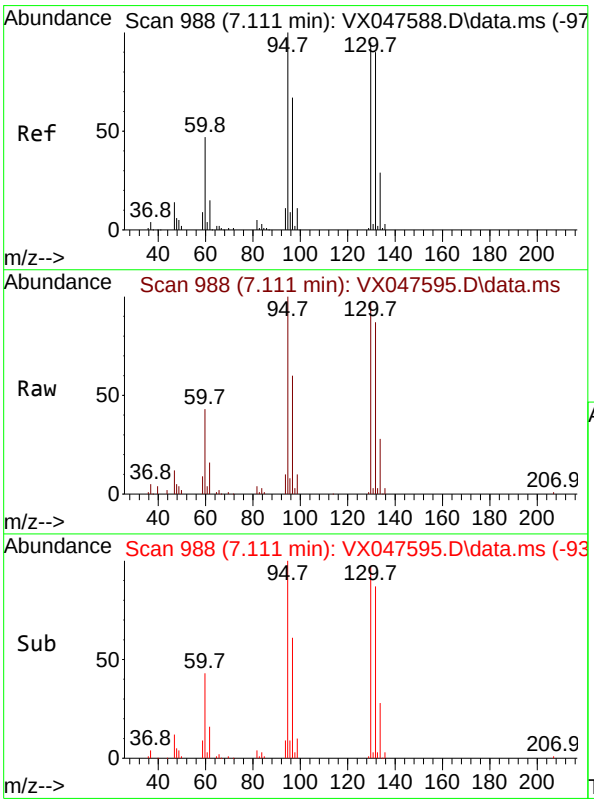
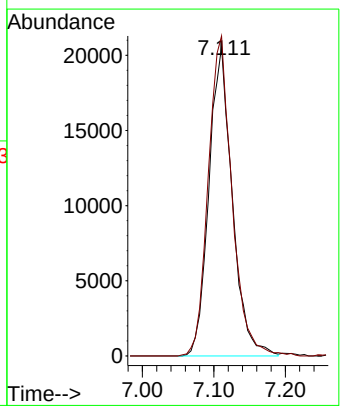
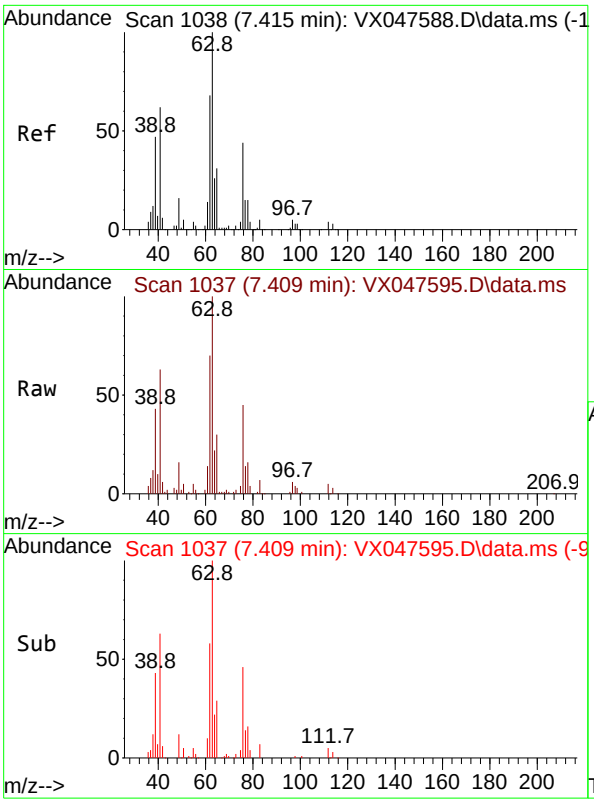


#44
Trichloroethene
Concen: 19.159 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:130 Resp: 46658

Ion	Ratio	Lower	Upper
130	100		
95	112.2	0.0	210.8

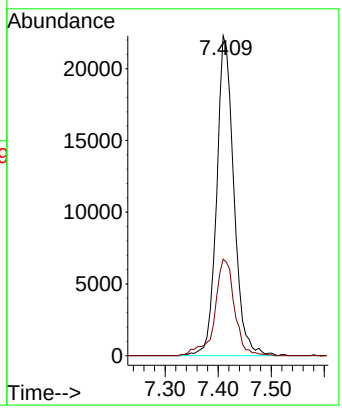




#45
1,2-Dichloropropane
Concen: 19.460 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 63 Resp: 5019

Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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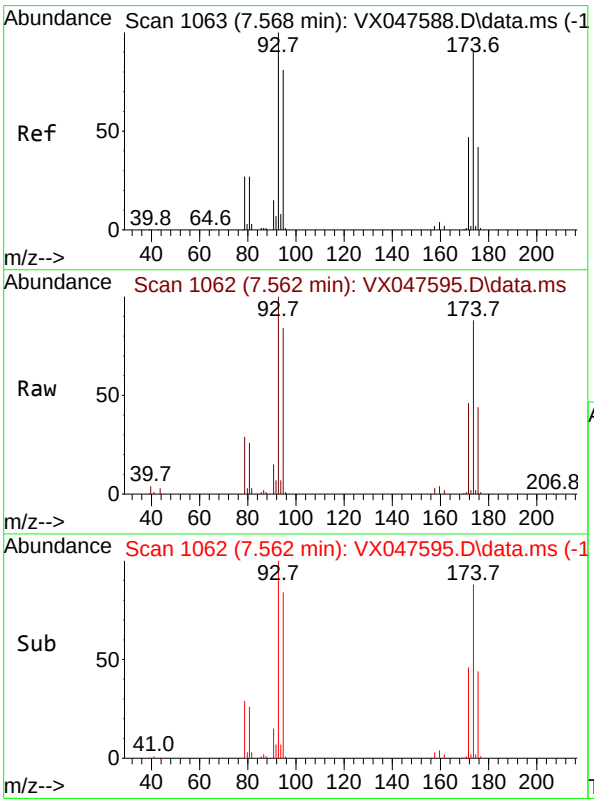
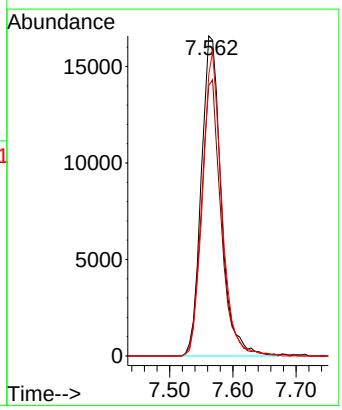
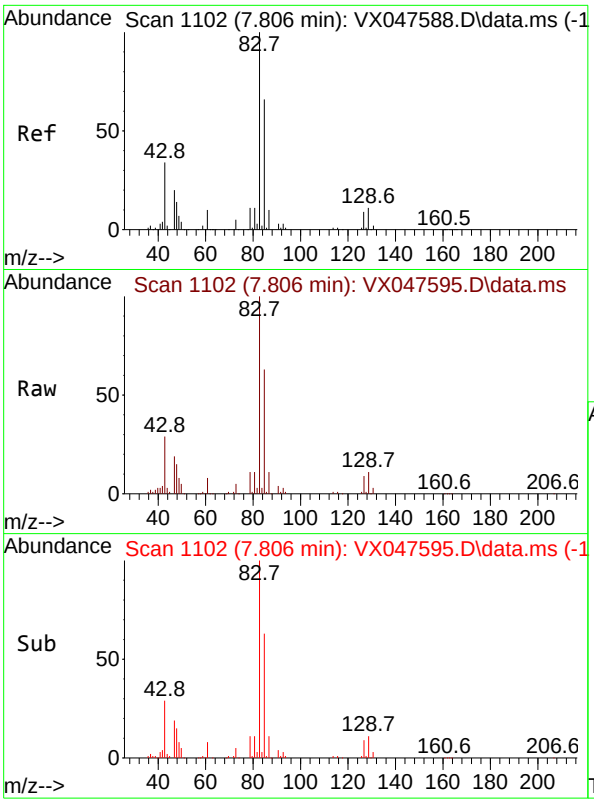


#46
Dibromomethane
Concen: 19.337 ug/l
RT: 7.562 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 93 Resp: 36296

Ion	Ratio	Lower	Upper
93	100		
95	84.9	65.0	97.6
174	91.6	71.6	107.4

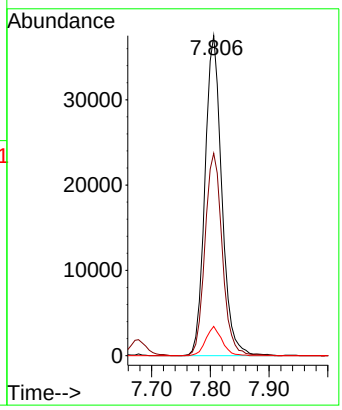




#47
Bromodichloromethane
Concen: 19.245 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 83 Resp: 7454

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.5	78.7
127	9.2	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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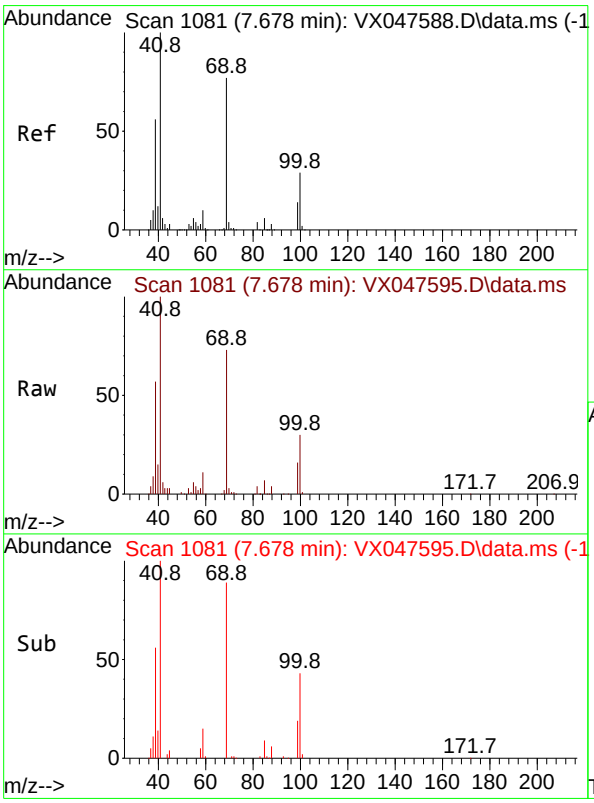
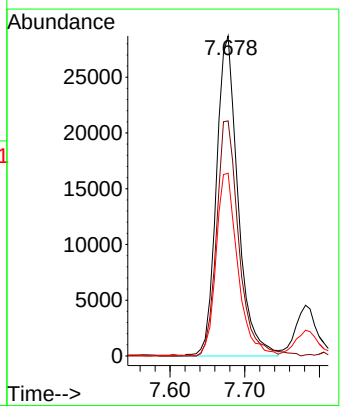
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

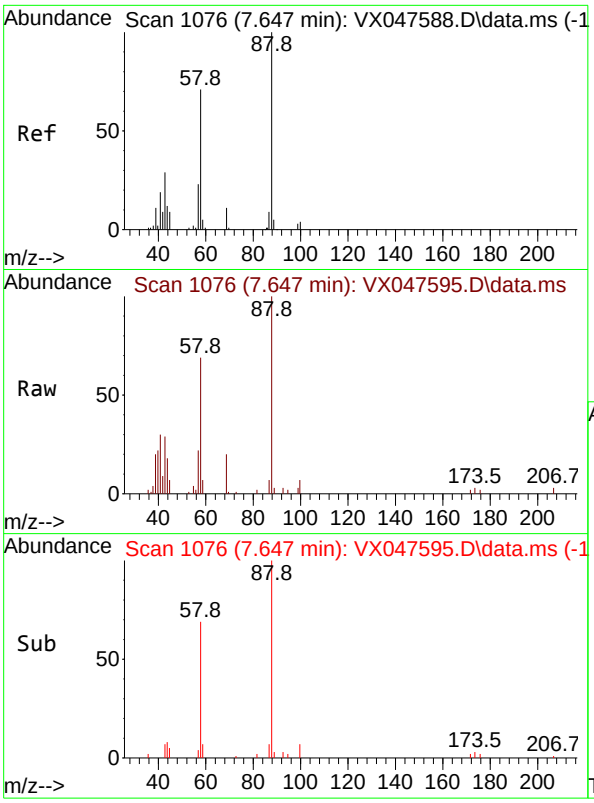


#48
Methyl methacrylate
Concen: 19.901 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 41 Resp: 57732

Ion	Ratio	Lower	Upper
41	100		
69	75.7	61.4	92.2
39	57.5	45.8	68.6

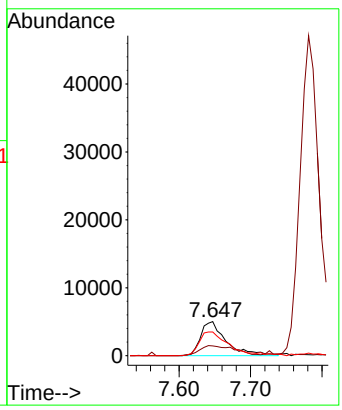




#49
1,4-Dioxane
Concen: 428.306 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 88 Resp: 1255

Ion	Ratio	Lower	Upper
88	100		
43	41.2	30.2	45.2
58	80.8	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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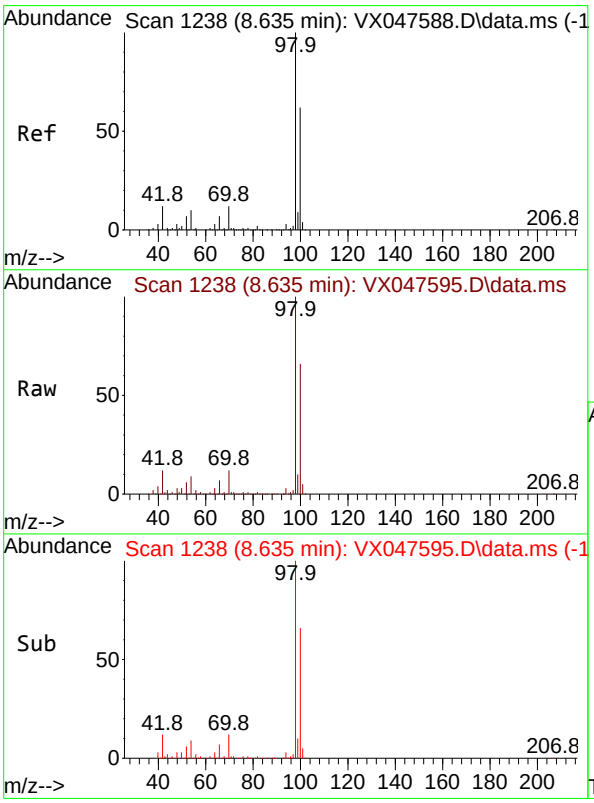
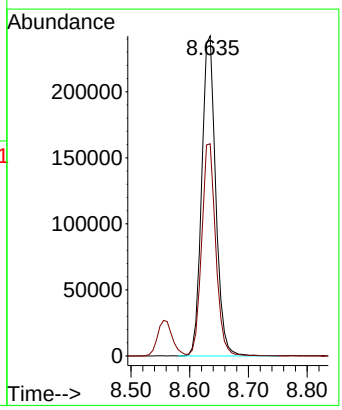
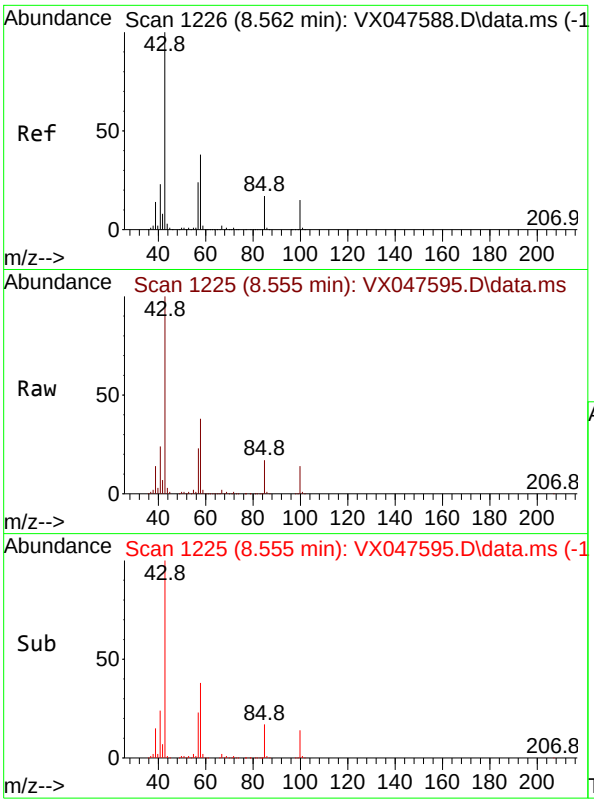


#50
Toluene-d8
Concen: 50.926 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 98 Resp: 399956

Ion	Ratio	Lower	Upper
98	100		
100	66.8	53.0	79.4

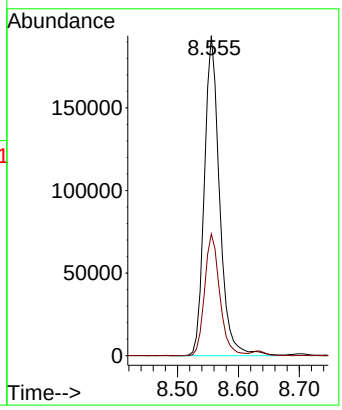




#51
4-Methyl-2-Pentanone
Concen: 104.165 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 33635

Ion	Ratio	Lower	Upper
43	100		
58	38.0	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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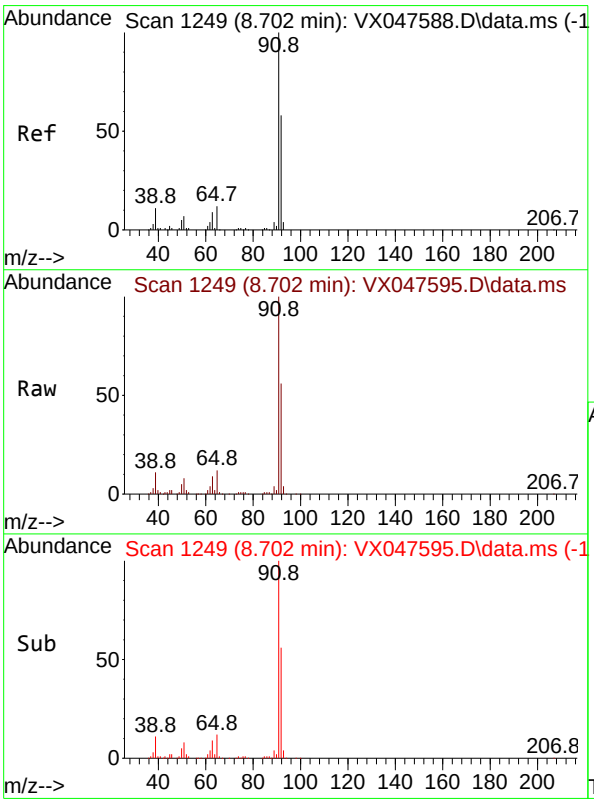
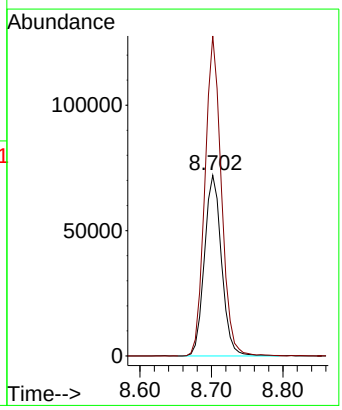
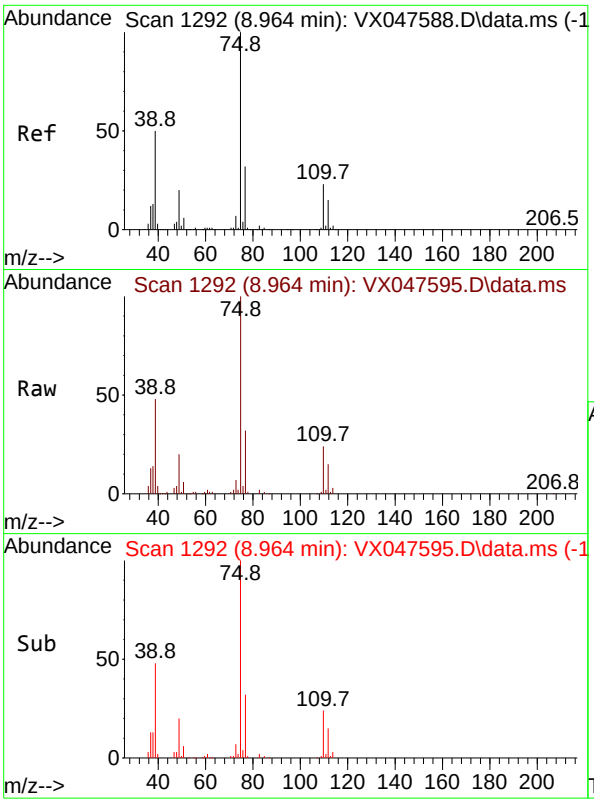


#52
Toluene
Concen: 19.283 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 92 Resp: 119672

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7

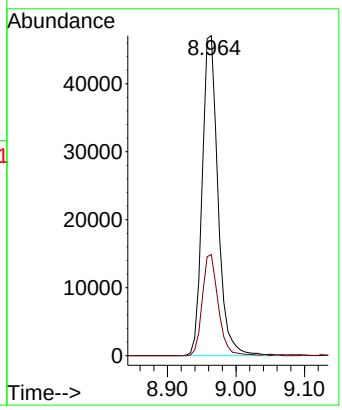




#53
t-1,3-Dichloropropene
Concen: 19.108 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 7549

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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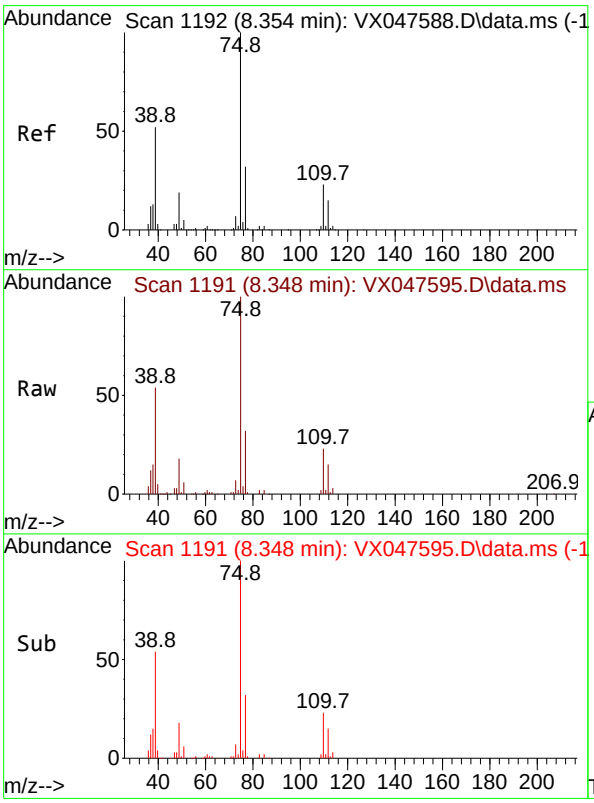
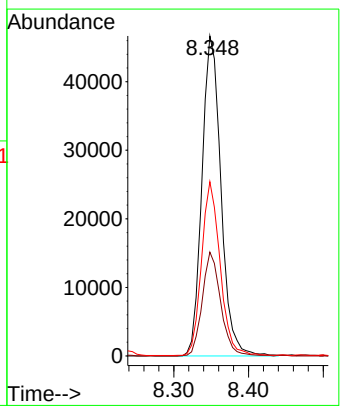
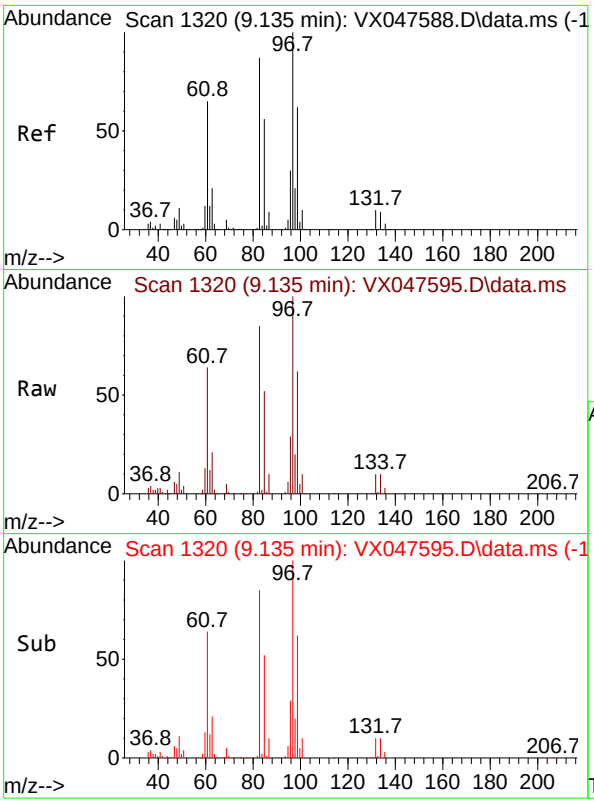


#54
cis-1,3-Dichloropropene
Concen: 19.544 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 82533

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.8	38.6
39	52.7	41.4	62.2

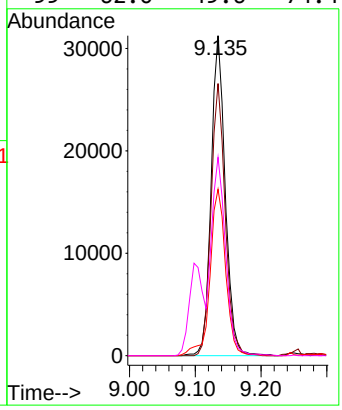




#55
1,1,2-Trichloroethane
Concen: 19.579 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 97 Resp: 4685

Ion	Ratio	Lower	Upper
97	100		
83	85.1	69.6	104.4
85	52.0	45.0	67.6
99	62.0	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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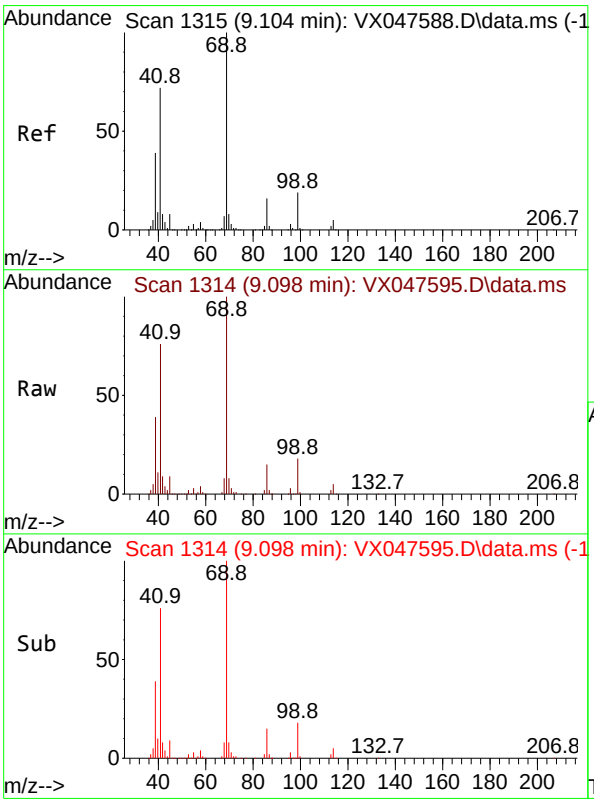
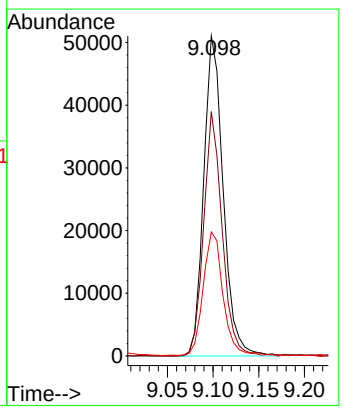
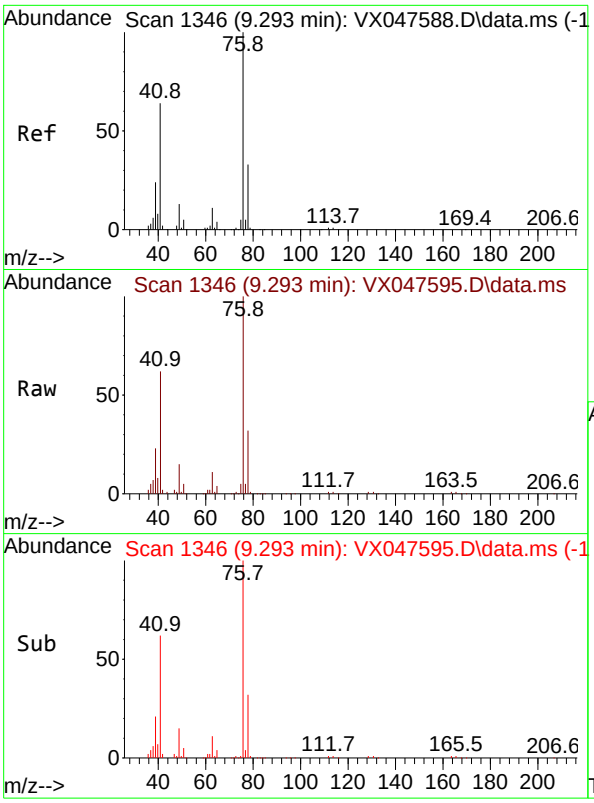


#56
Ethyl methacrylate
Concen: 20.053 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 69 Resp: 75362

Ion	Ratio	Lower	Upper
69	100		
41	73.1	58.6	87.8
39	39.8	31.5	47.3

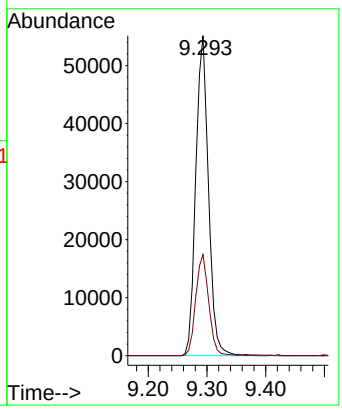




#57
1,3-Dichloropropane
Concen: 20.166 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 76 Resp: 8289

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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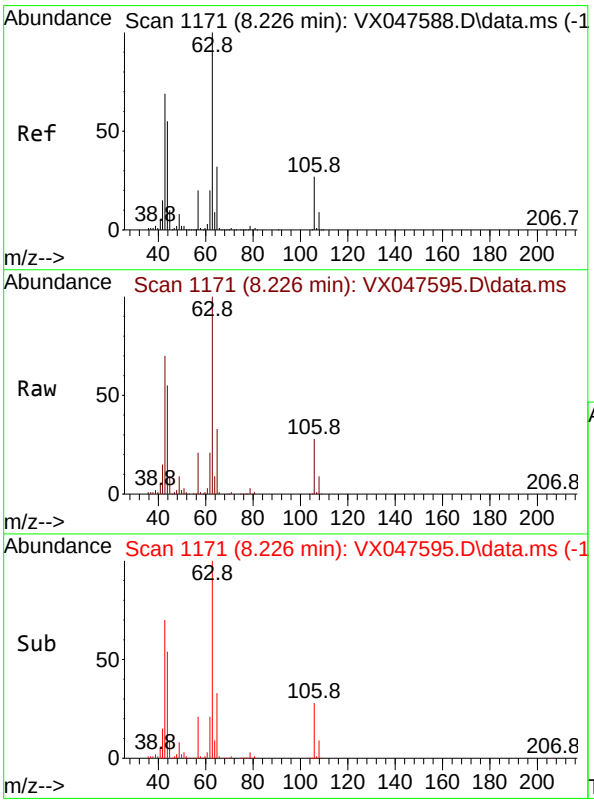
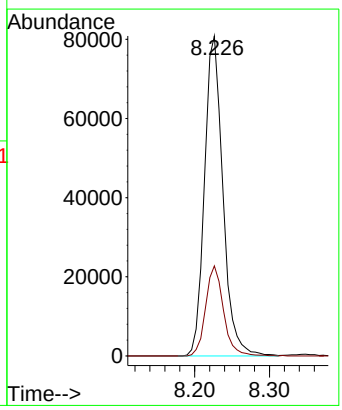
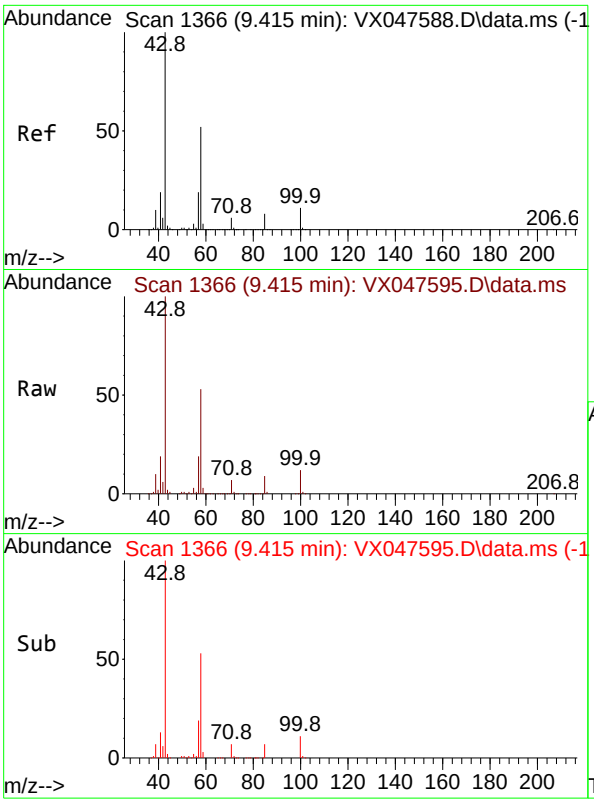


#58
2-Chloroethyl Vinyl ether
Concen: 84.558 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 63 Resp: 138530

Ion	Ratio	Lower	Upper
63	100		
106	27.3	21.9	32.9

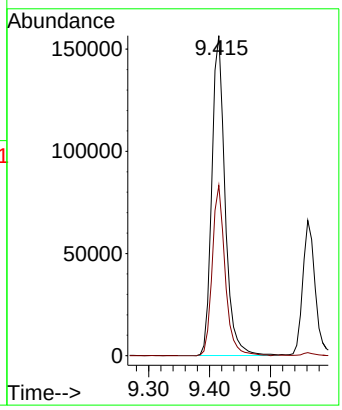




#59
2-Hexanone
Concen: 101.913 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 23635

Ion	Ratio	Lower	Upper
43	100		
58	51.9	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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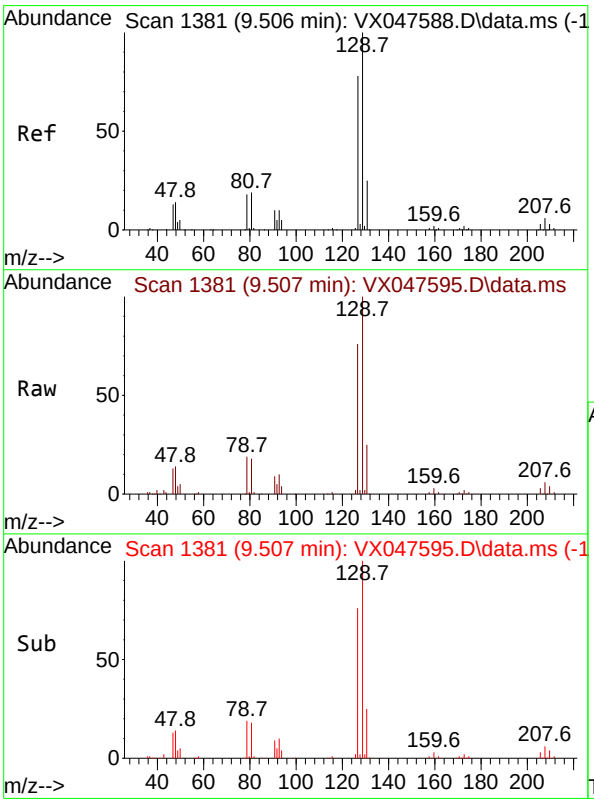
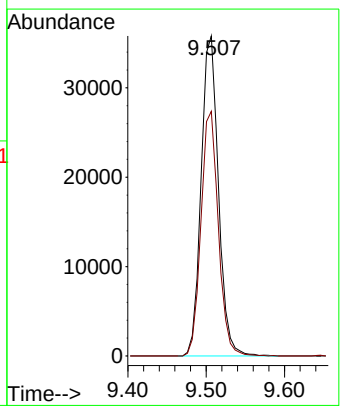
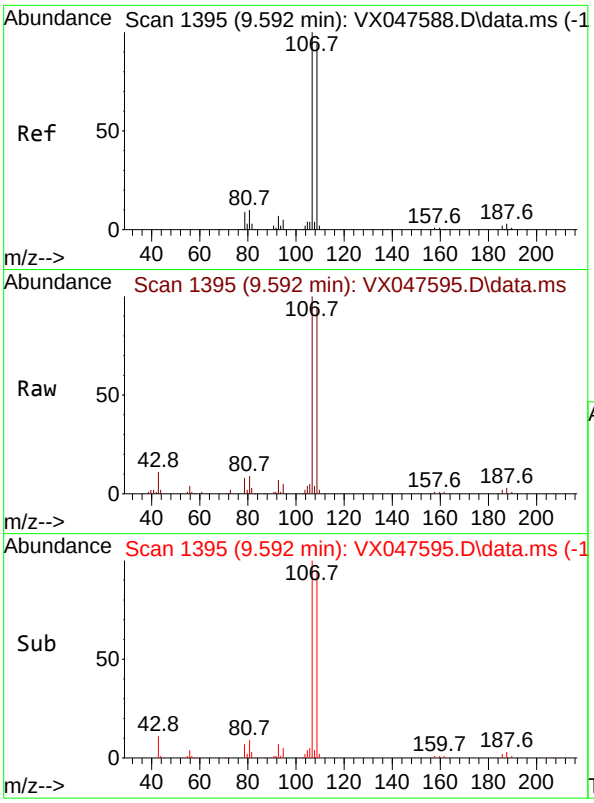


#60
Dibromochloromethane
Concen: 19.897 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:129 Resp: 54864

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.4	115.2

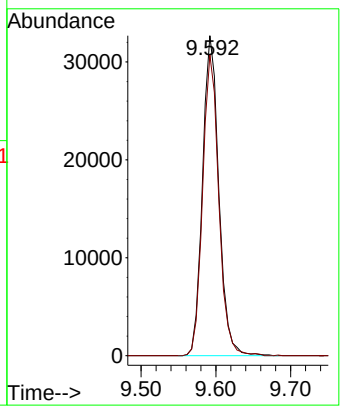




#61
1,2-Dibromoethane
Concen: 20.295 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:107 Resp: 4946

Ion	Ratio	Lower	Upper
107	100		
109	93.2	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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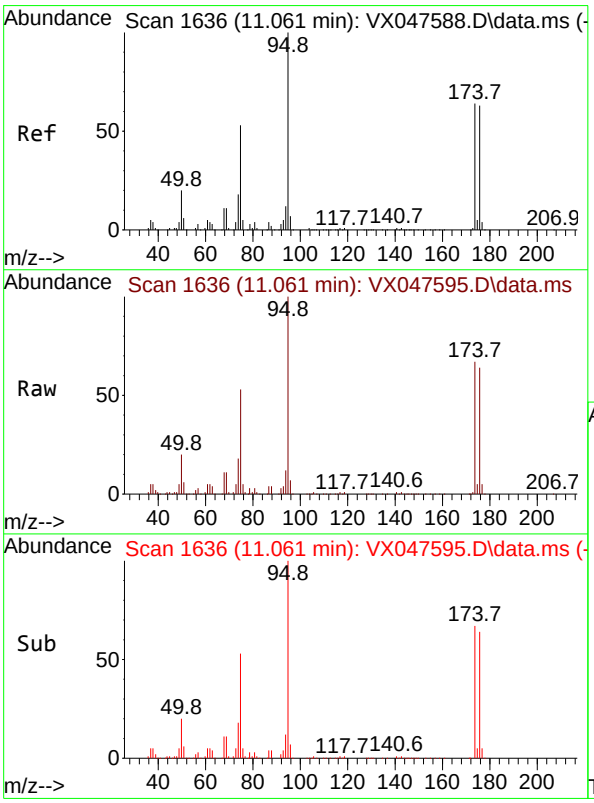
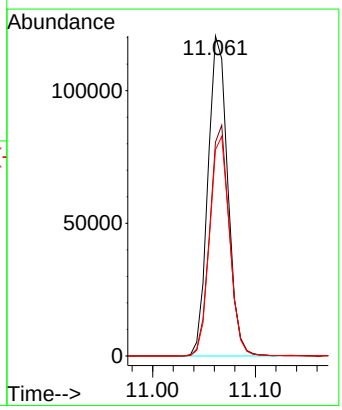
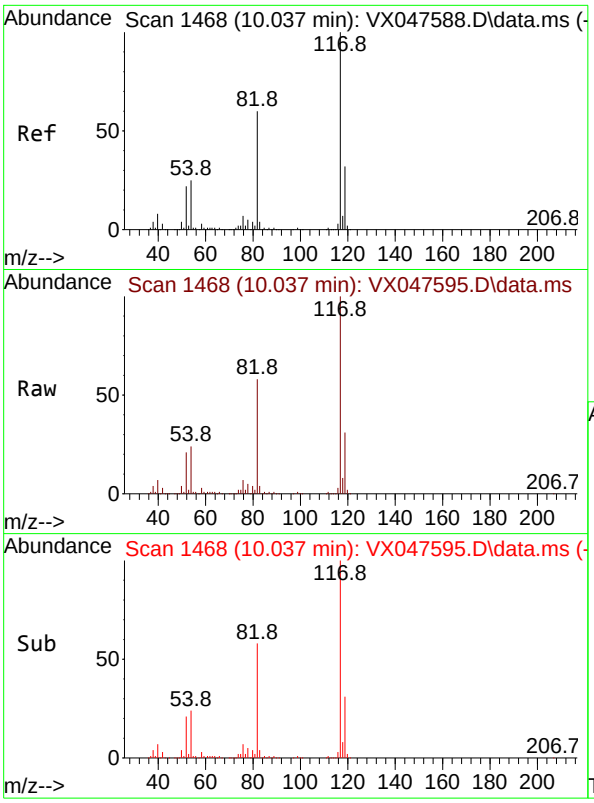


#62
4-Bromofluorobenzene
Concen: 53.912 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 95 Resp: 160691

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.6
176	69.2	0.0	138.4

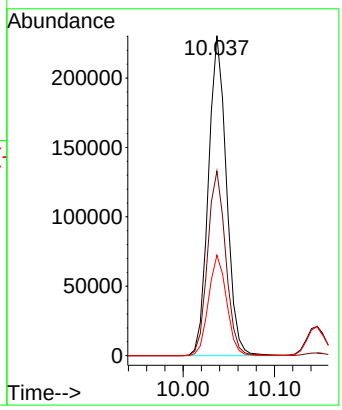




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:117 Resp: 31547

Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.8	71.6
119	31.4	25.2	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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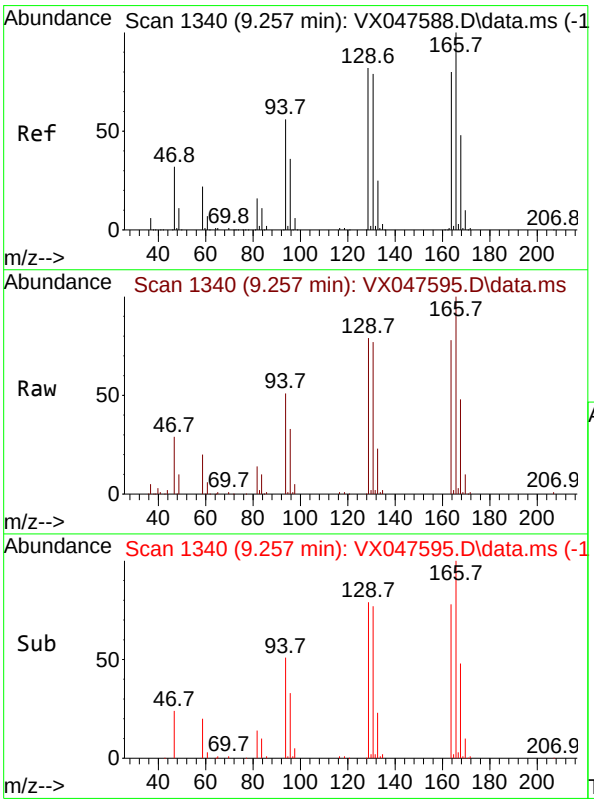
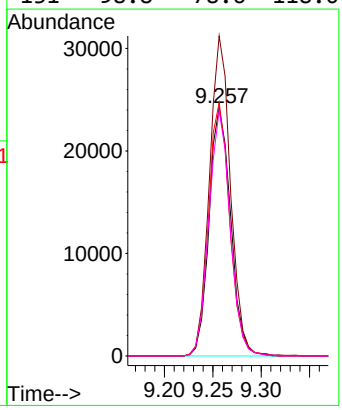
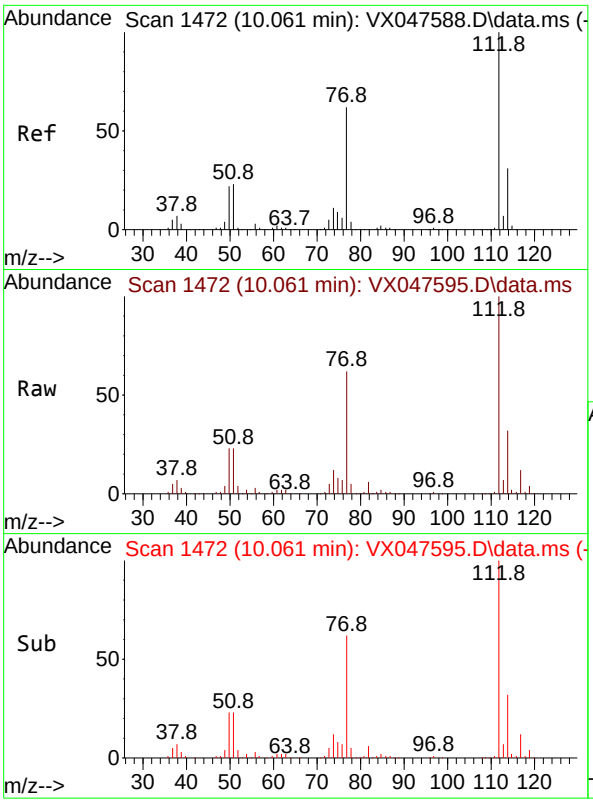


#64
Tetrachloroethene
Concen: 18.285 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:164 Resp: 37604

Ion	Ratio	Lower	Upper
164	100		
166	128.9	100.2	150.2
129	102.0	81.8	122.6
131	98.8	78.6	118.0

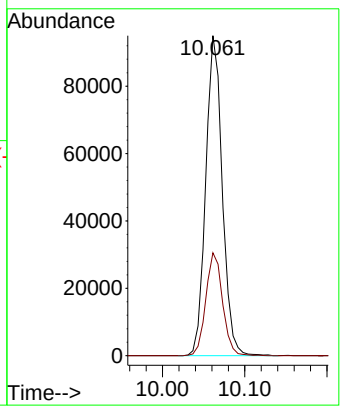




#65
Chlorobenzene
Concen: 18.515 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:112 Resp: 13269

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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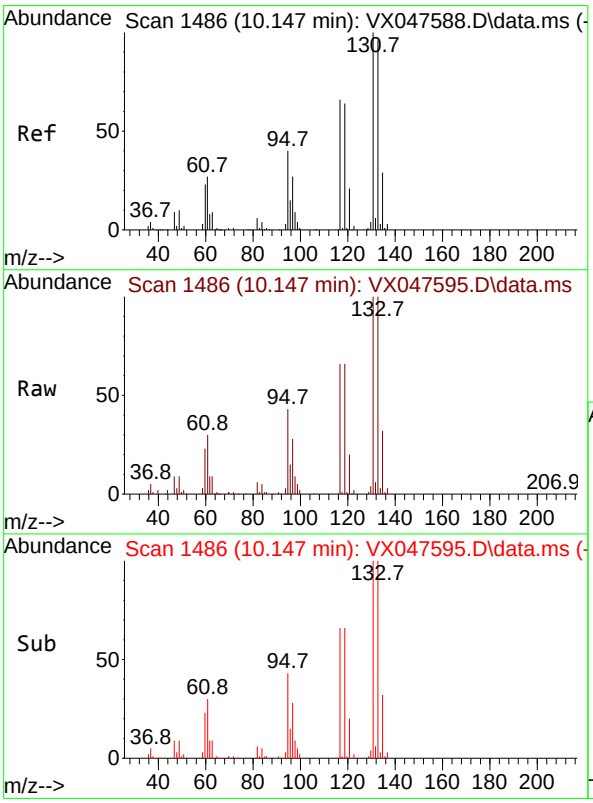
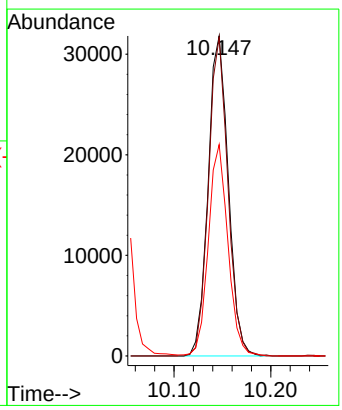
Supervised By :Mahesh Dadoda 09/18/2025

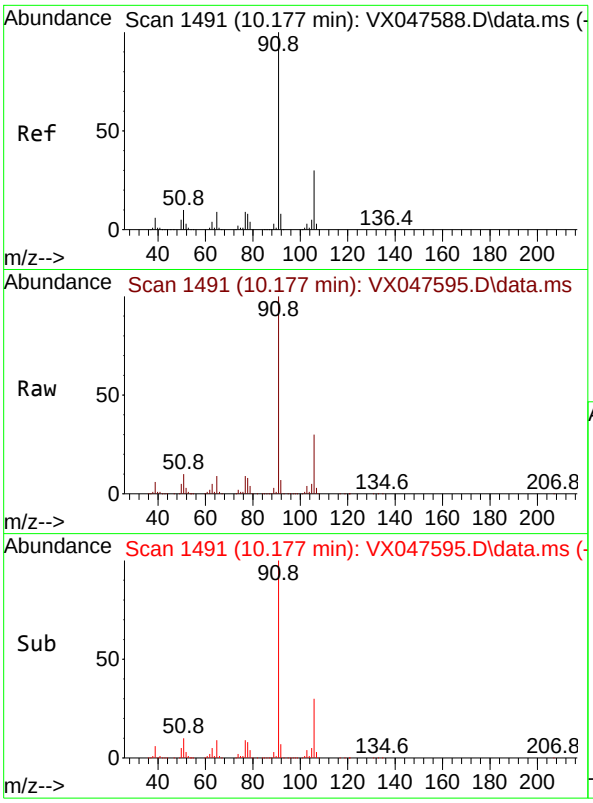


#66
1,1,1,2-Tetrachloroethane
Concen: 18.663 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:131 Resp: 46156

Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.3	142.0
119	64.2	32.0	96.0

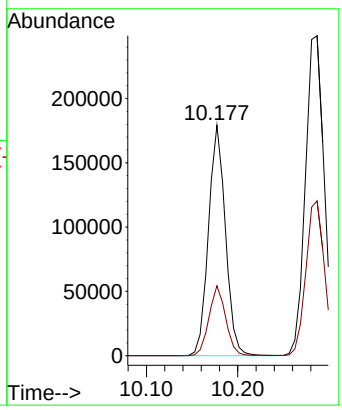




#67
Ethyl Benzene
Concen: 18.657 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 91 Resp: 23071

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5



Instrument :
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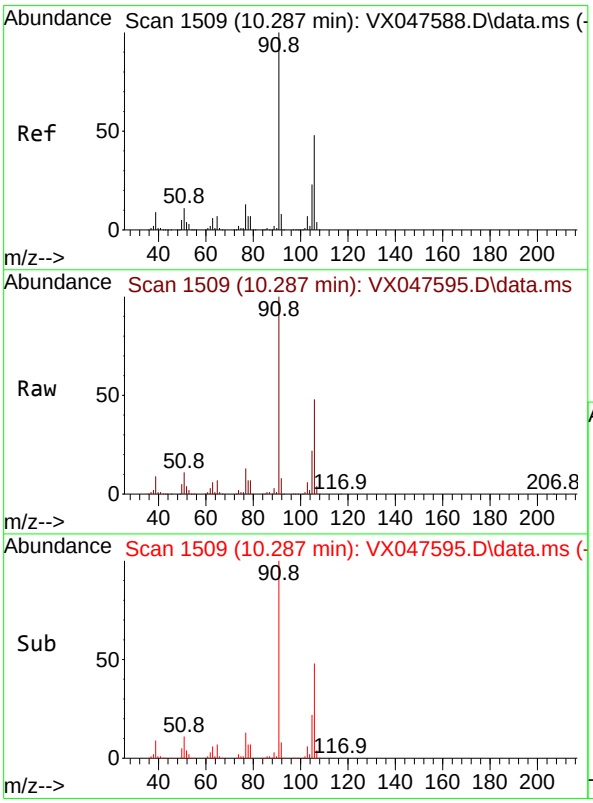
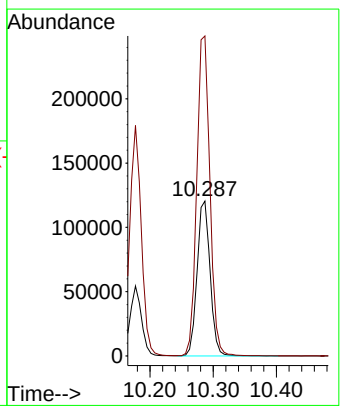
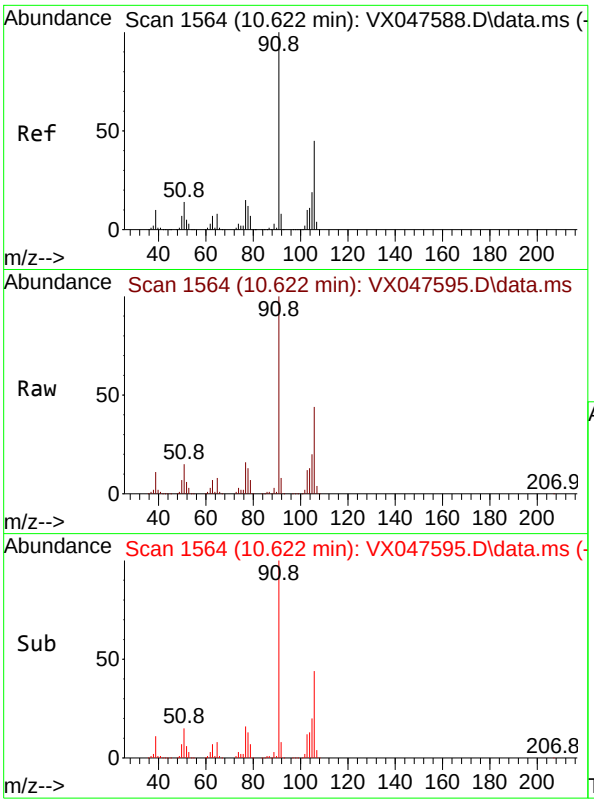


#68
m/p-Xylenes
Concen: 37.445 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:106 Resp: 172349

Ion	Ratio	Lower	Upper
106	100		
91	208.5	167.8	251.8

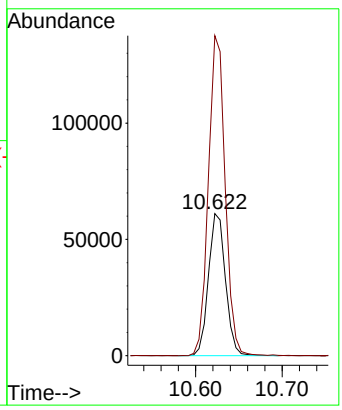




#69
o-Xylene
Concen: 18.710 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:106 Resp: 8329

Ion	Ratio	Lower	Upper
106	100		
91	222.6	111.1	333.4



Instrument :
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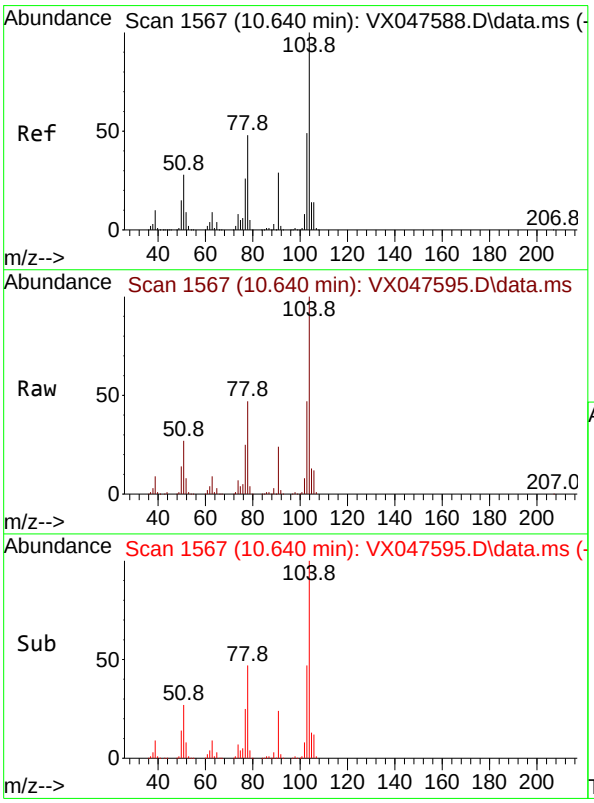
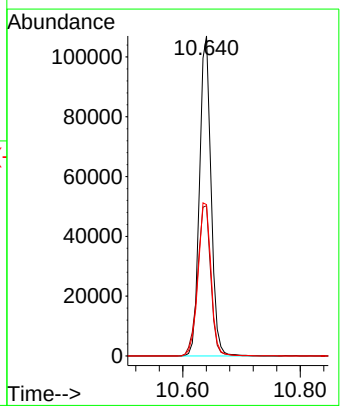
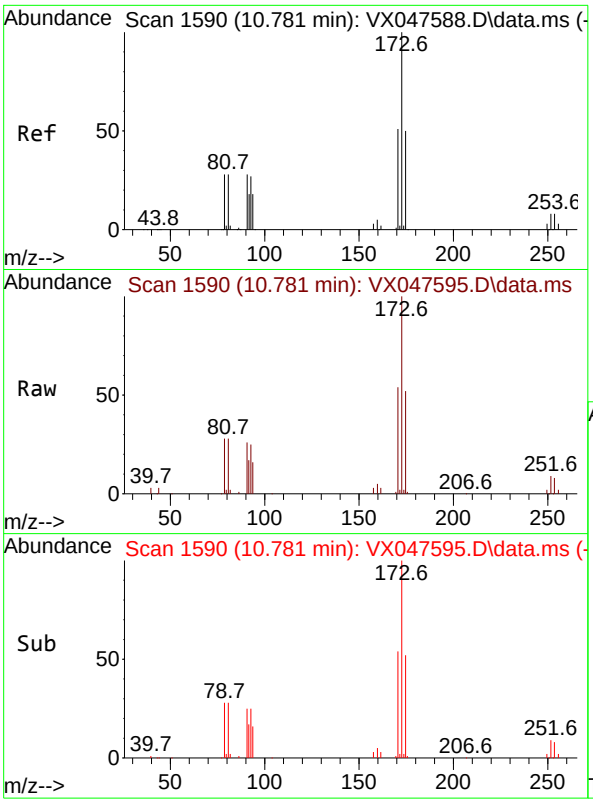


#70
Styrene
Concen: 18.627 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:104 Resp: 145298

Ion	Ratio	Lower	Upper
104	100		
78	53.8	43.1	64.7
103	54.0	43.1	64.7

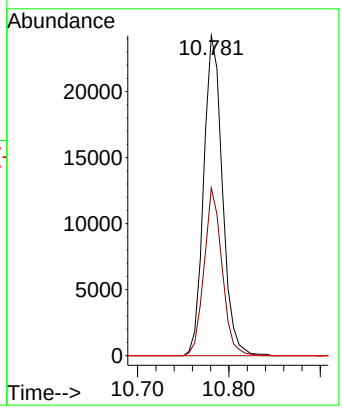




#71
Bromoform
Concen: 18.680 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:173 Resp: 3449

Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_X
ClientSampleId :
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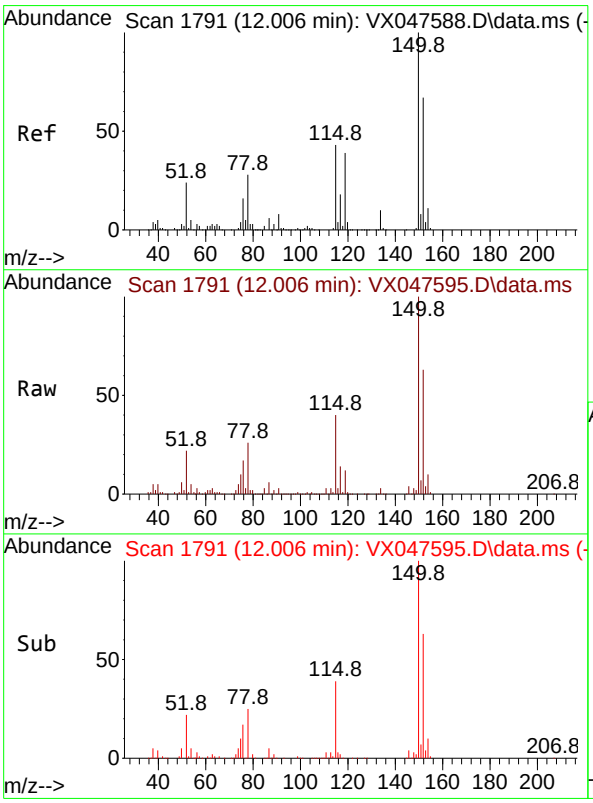
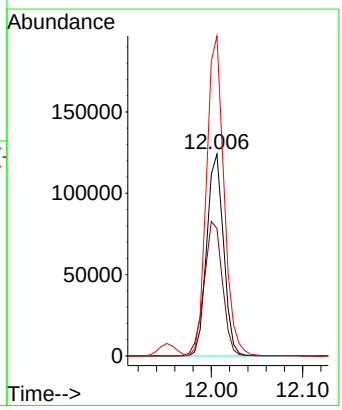
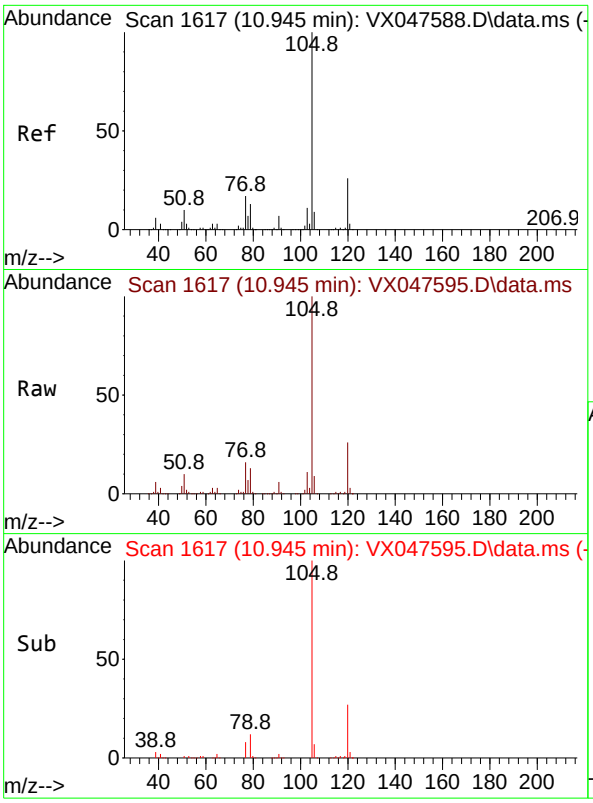


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:152 Resp: 158261

Ion	Ratio	Lower	Upper
152	100		
115	72.6	44.9	134.5
150	164.0	0.0	352.0





#73
Isopropylbenzene
Concen: 17.893 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:105 Resp: 21529

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
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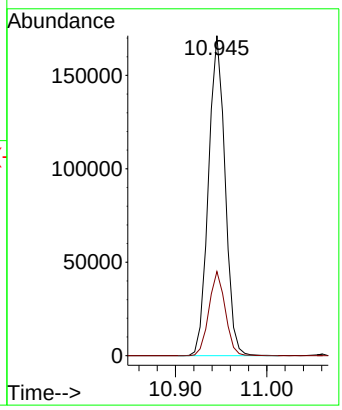
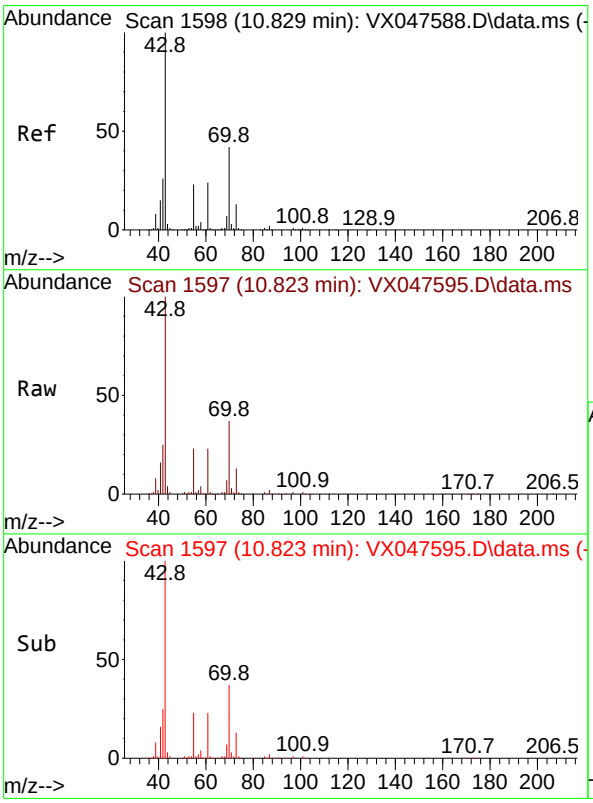
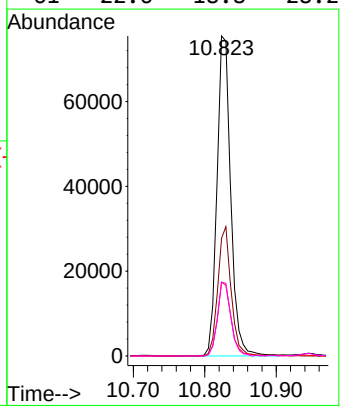


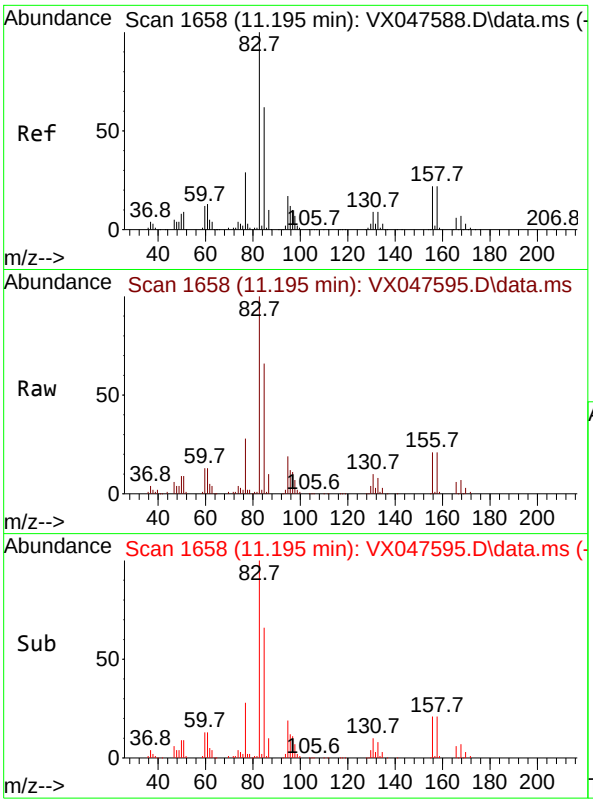


#74
N-amyl acetate
Concen: 18.365 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 43 Resp: 100764

Ion	Ratio	Lower	Upper
43	100		
70	39.4	32.0	48.0
55	22.8	18.9	28.3
61	22.6	18.8	28.2

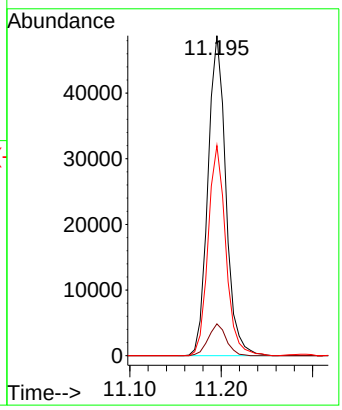




#75
1,1,2,2-Tetrachloroethane
Concen: 18.189 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 83 Resp: 6621

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.9	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

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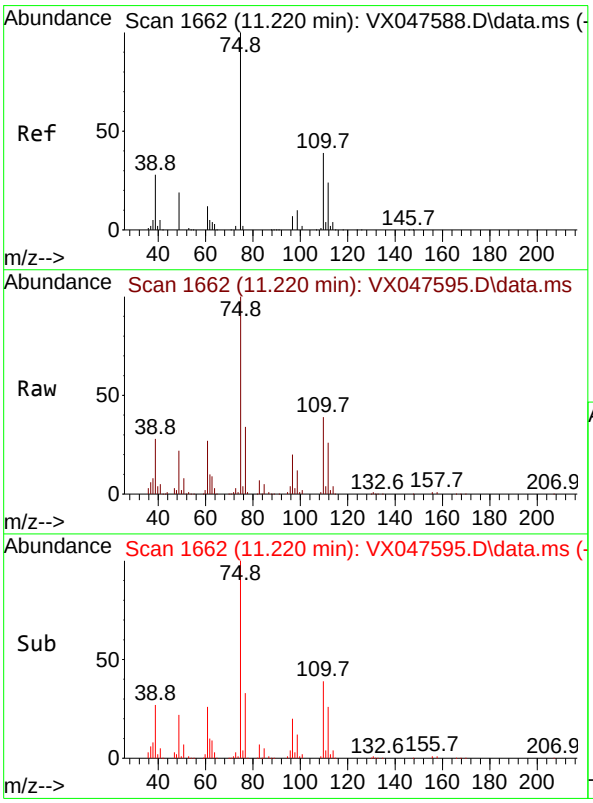
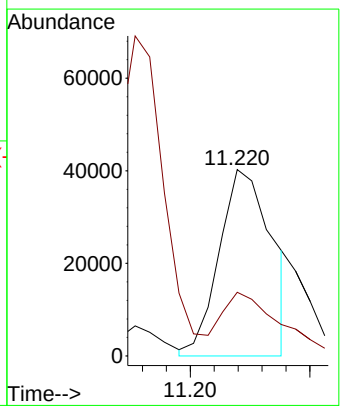
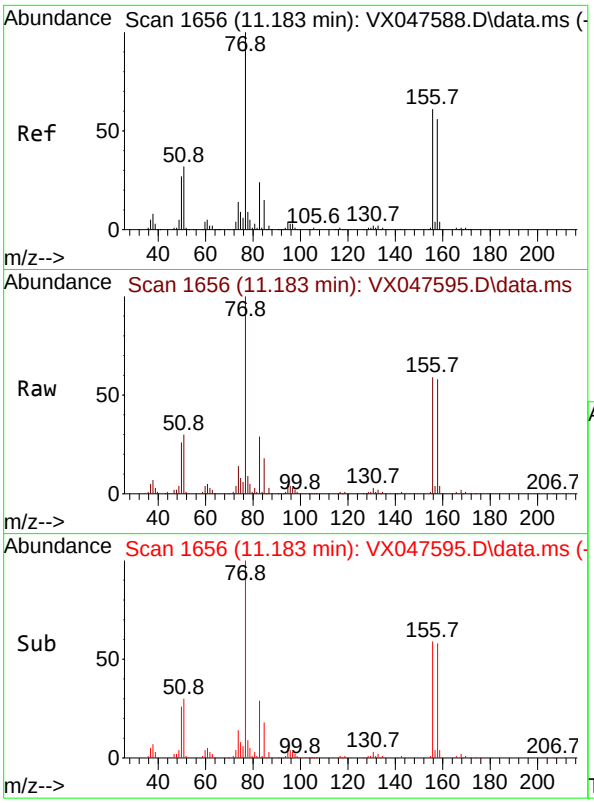


#76
1,2,3-Trichloropropane
Concen: 19.172 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 61433

Ion	Ratio	Lower	Upper
75	100		
77	37.7	18.8	56.4

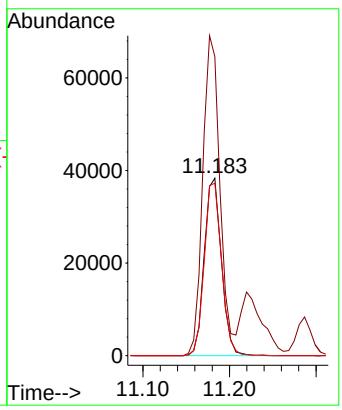




#77
Bromobenzene
Concen: 17.821 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:156 Resp: 5281

Ion	Ratio	Lower	Upper
156	100		
77	181.2	89.7	269.1
158	98.3	47.9	143.6



Instrument :
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ClientSampleId :
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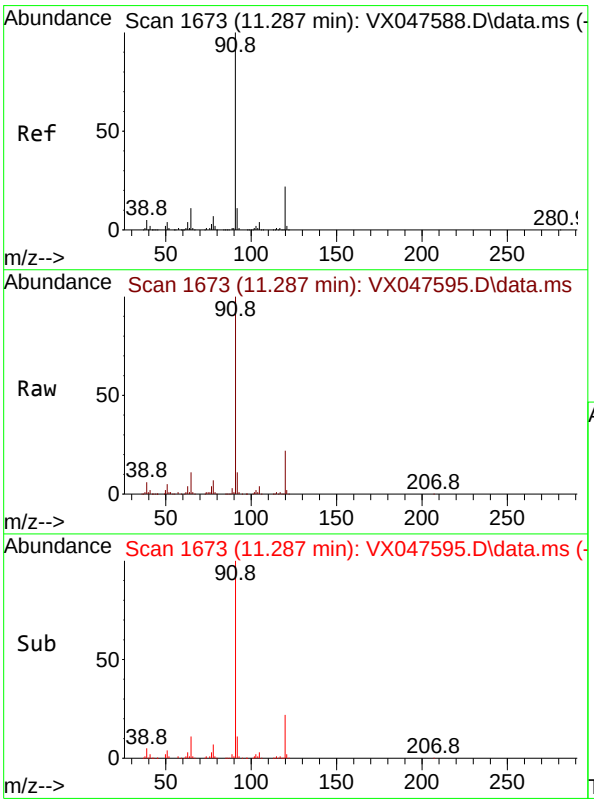
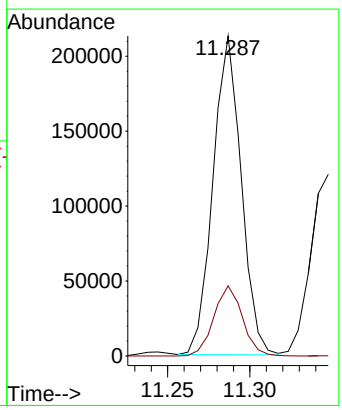
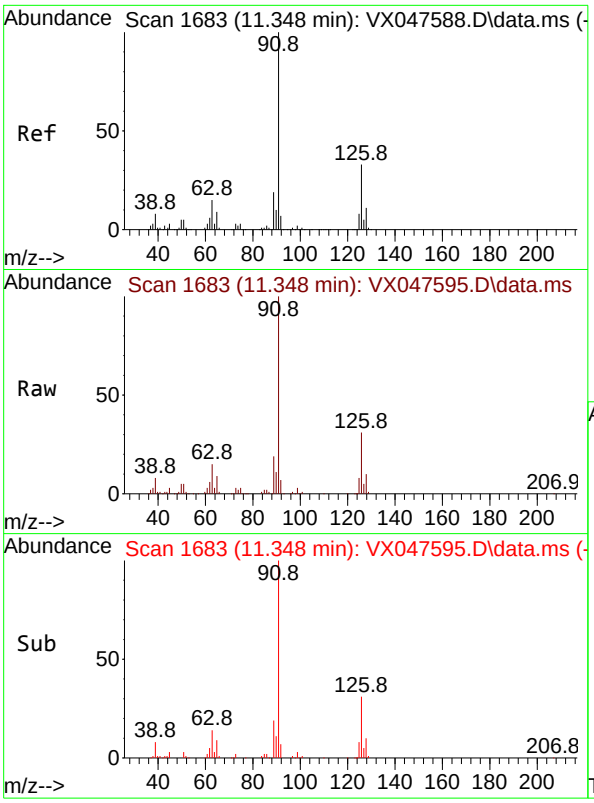


#78
n-propylbenzene
Concen: 17.807 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 91 Resp: 253278

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.1

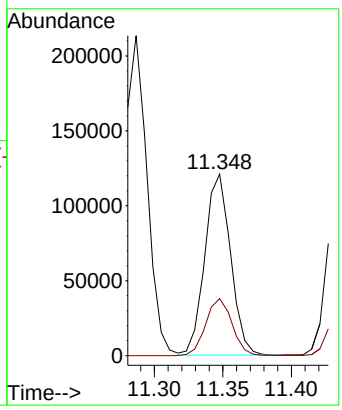




#79
2-Chlorotoluene
Concen: 18.122 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 91 Resp: 15786

Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.1	48.3



Instrument :
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ClientSampleId :
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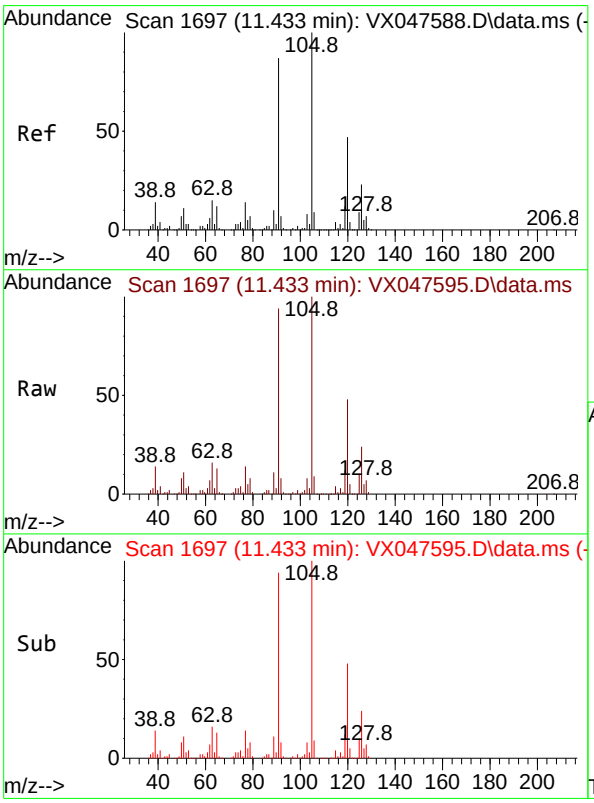
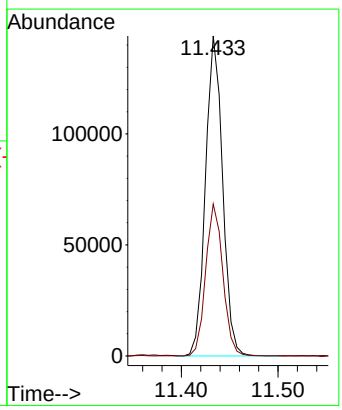
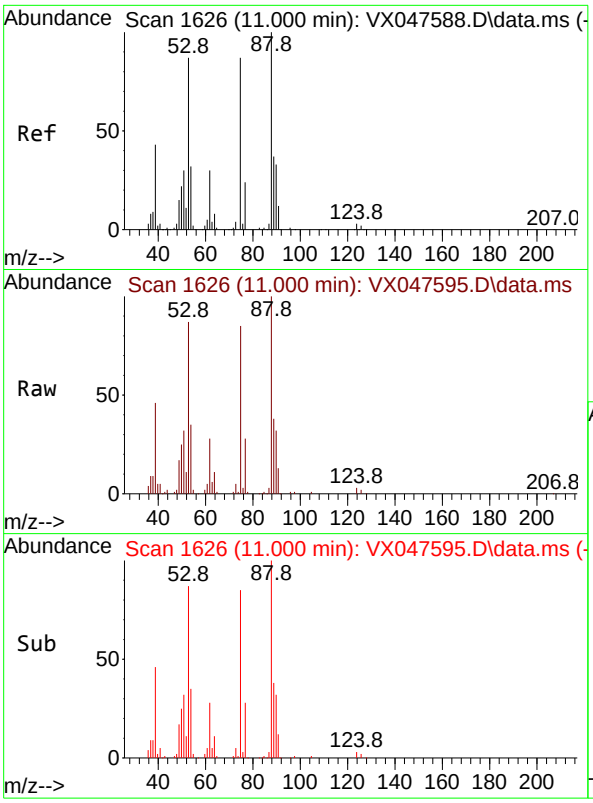


#80
1,3,5-Trimethylbenzene
Concen: 17.974 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:105 Resp: 177677

Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.6	70.8

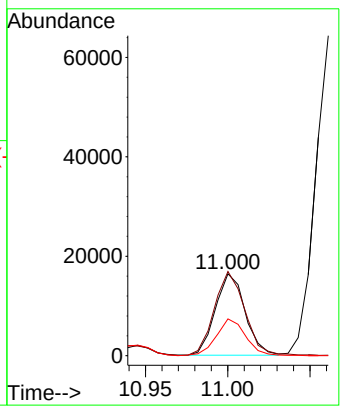




#81
trans-1,4-Dichloro-2-butene
Concen: 16.391 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 2059

Ion	Ratio	Lower	Upper
75	100		
53	106.4	83.4	125.2
89	44.7	36.3	54.5



Instrument :
MSVOA_X
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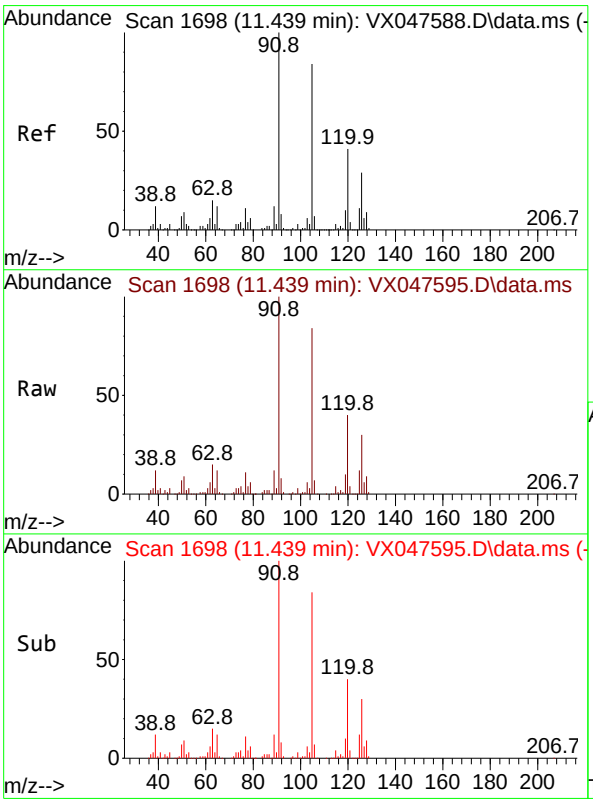
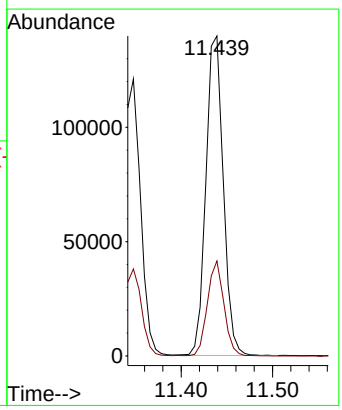
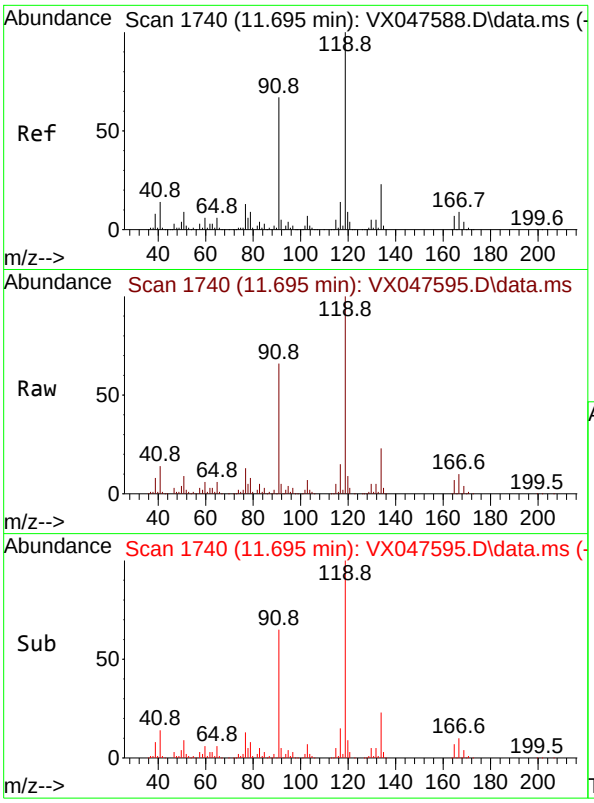


#82
4-Chlorotoluene
Concen: 17.898 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 91 Resp: 184150

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.2	42.6

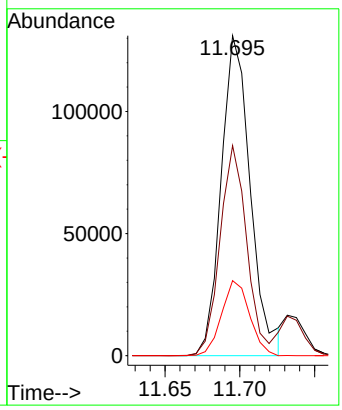




#83
tert-Butylbenzene
Concen: 17.527 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:119 Resp: 17736

Ion	Ratio	Lower	Upper
119	100		
91	60.3	29.6	88.8
134	22.6	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
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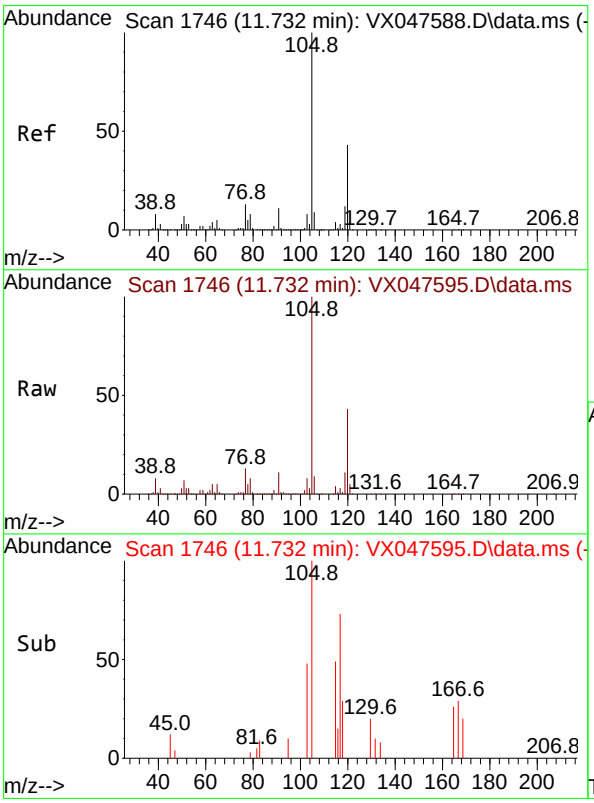
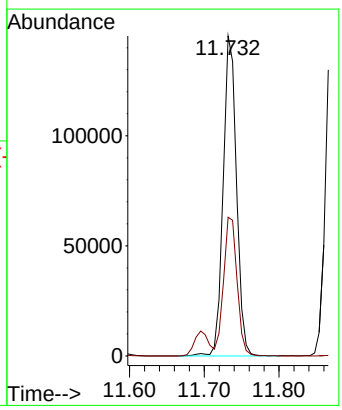
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

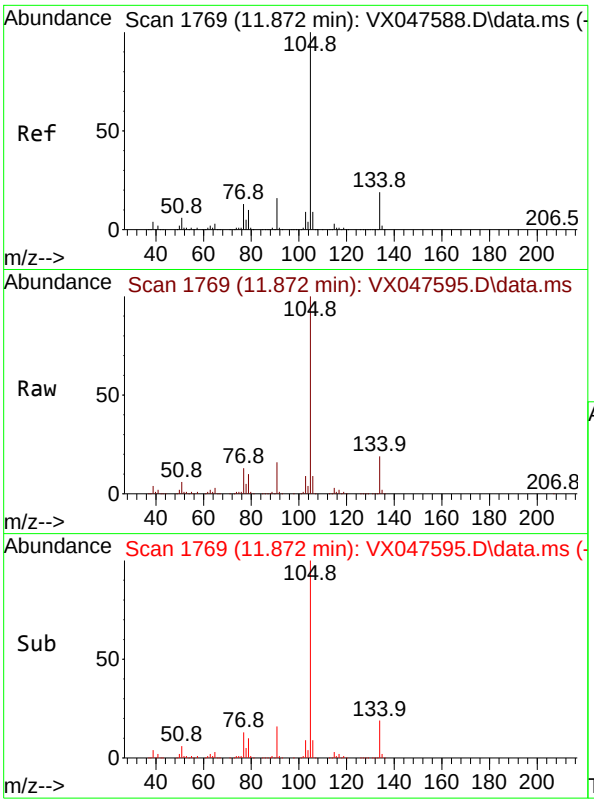


#84
1,2,4-Trimethylbenzene
Concen: 17.974 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:105 Resp: 180139

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.1





#85
sec-Butylbenzene
Concen: 17.908 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:105 Resp: 21524

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
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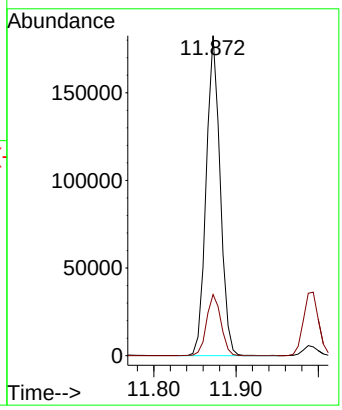
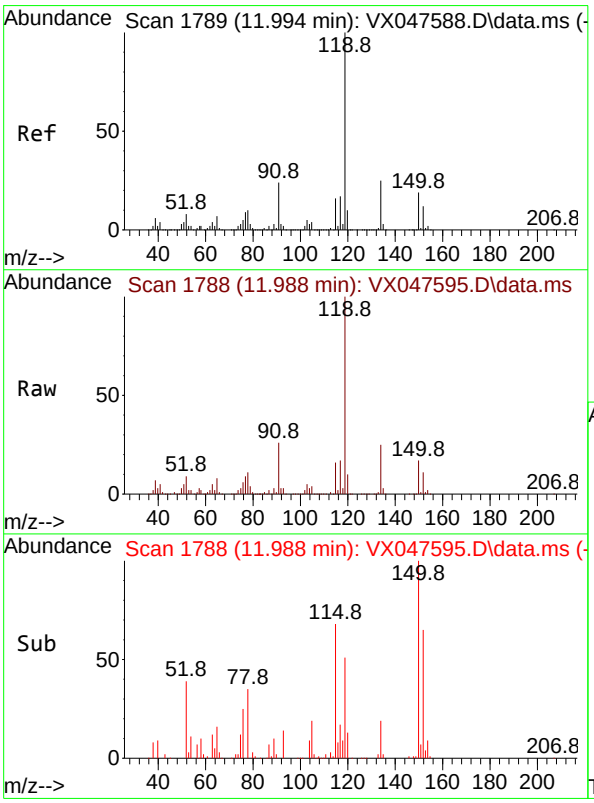
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

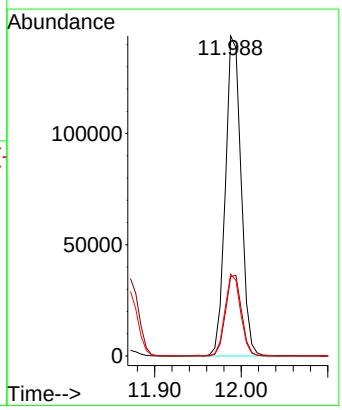


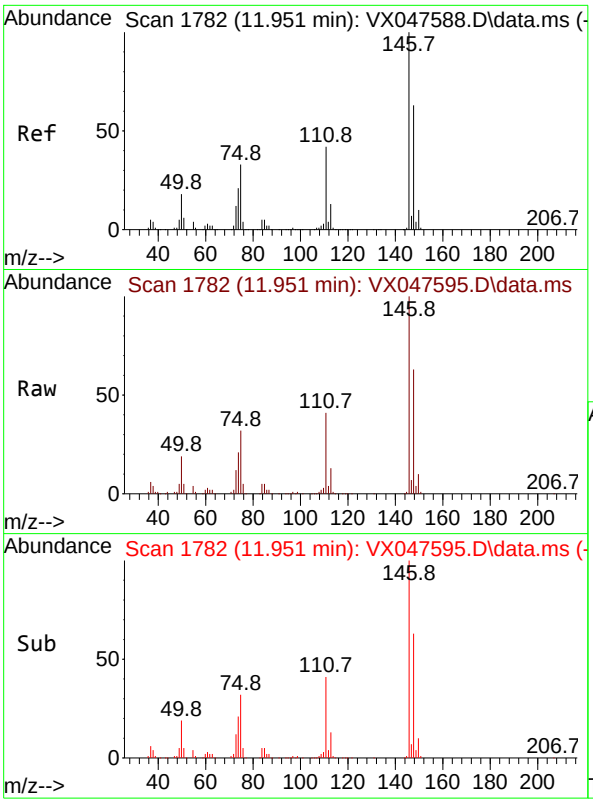


#86
p-Isopropyltoluene
Concen: 17.784 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:119 Resp: 180973

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.8
91	25.5	12.6	37.6

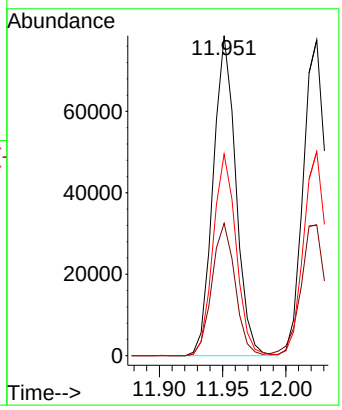




#87
1,3-Dichlorobenzene
Concen: 17.827 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:146 Resp: 9812

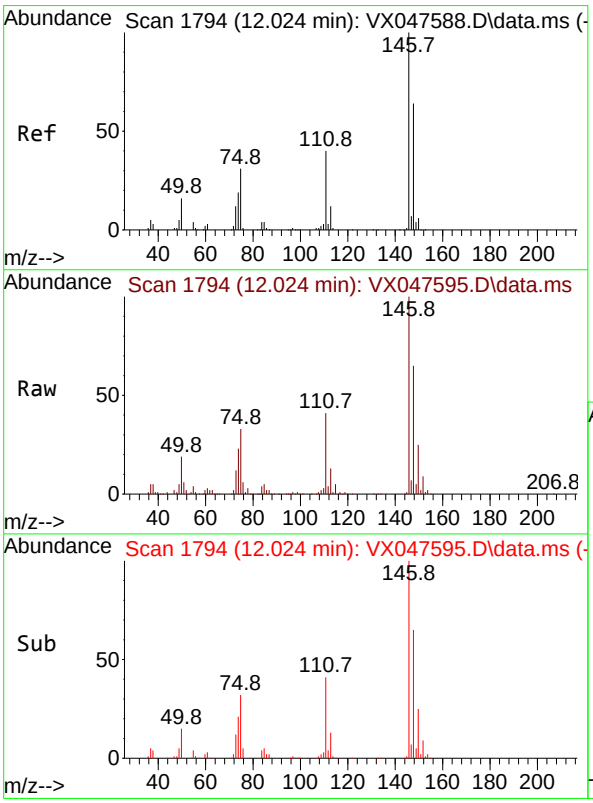
Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.5	64.5
148	63.7	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

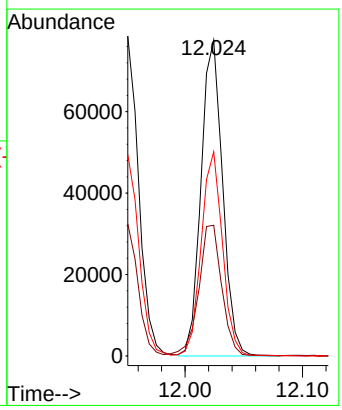
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

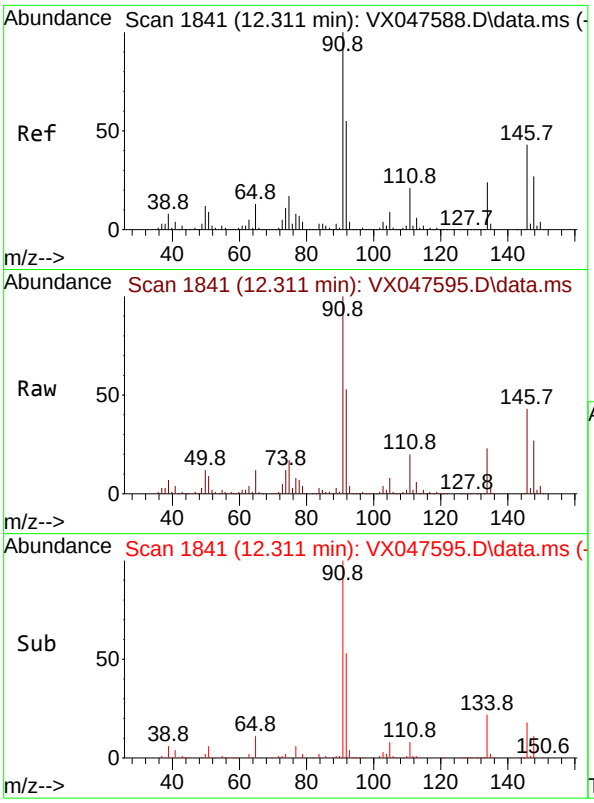


#88
1,4-Dichlorobenzene
Concen: 17.505 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:146 Resp: 98890

Ion	Ratio	Lower	Upper
146	100		
111	44.2	20.8	62.4
148	64.0	31.7	95.1

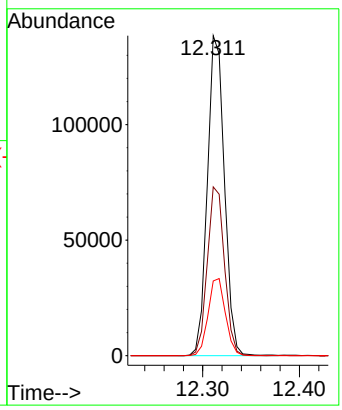




#89
n-Butylbenzene
Concen: 17.988 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 91 Resp: 16937

Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.6	82.7
134	24.5	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

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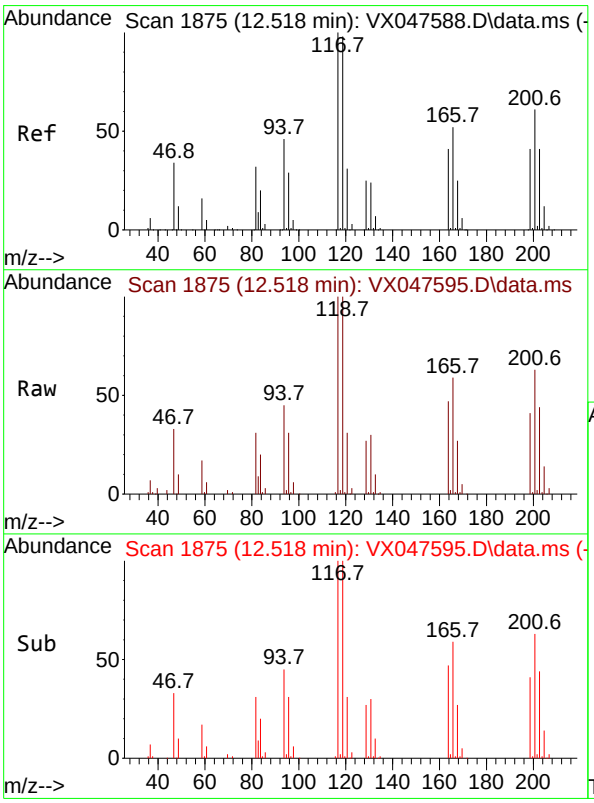
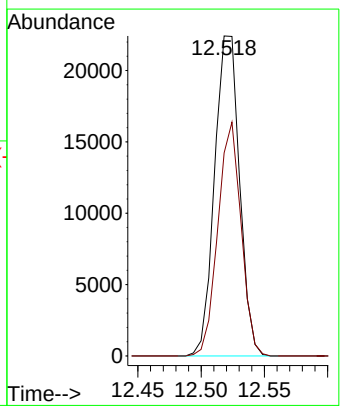
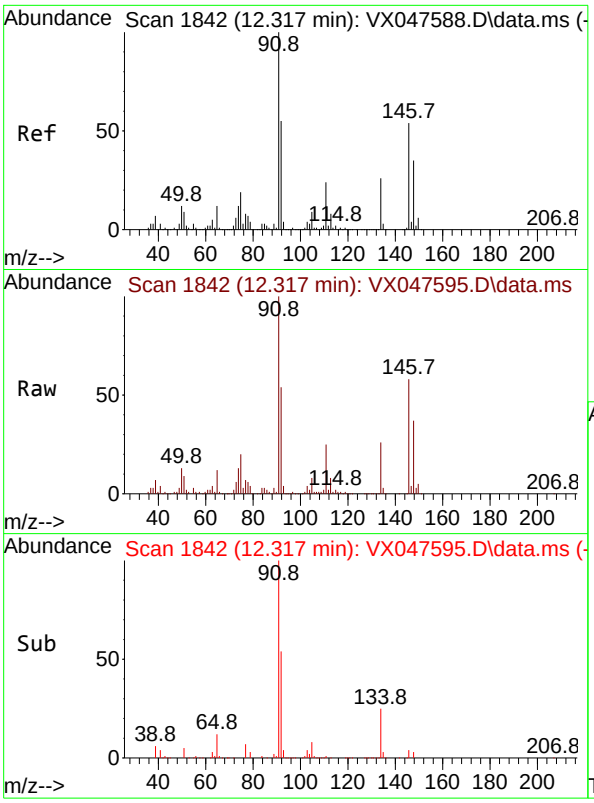


#90
Hexachloroethane
Concen: 17.210 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:117 Resp: 30747

Ion	Ratio	Lower	Upper
117	100		
201	67.9	34.2	102.5

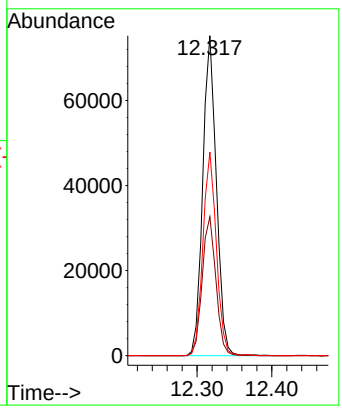




#91
1,2-Dichlorobenzene
Concen: 18.142 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:146 Resp: 9513

Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.2	66.6
148	62.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
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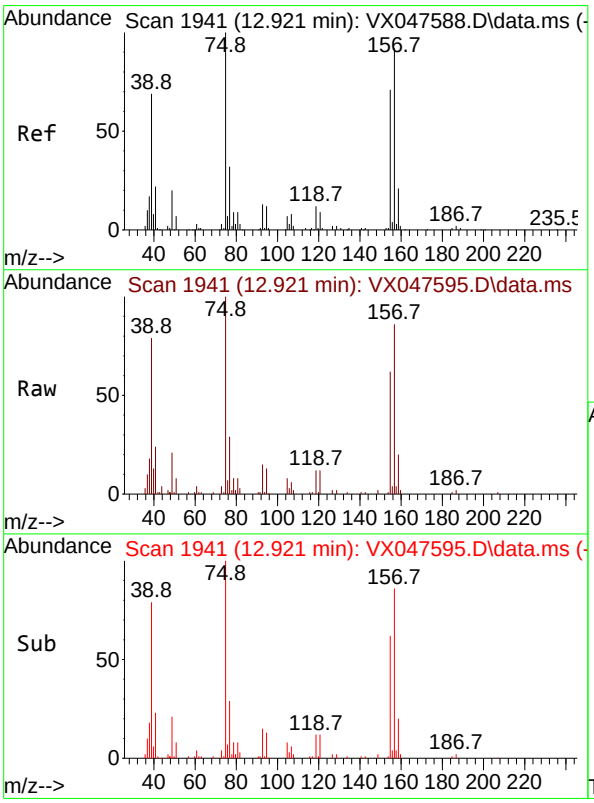
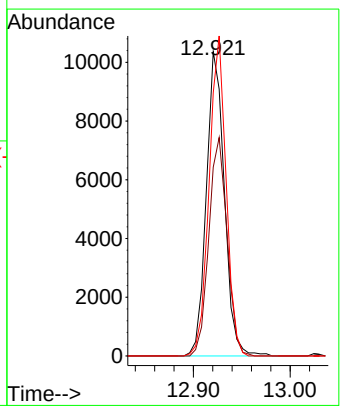
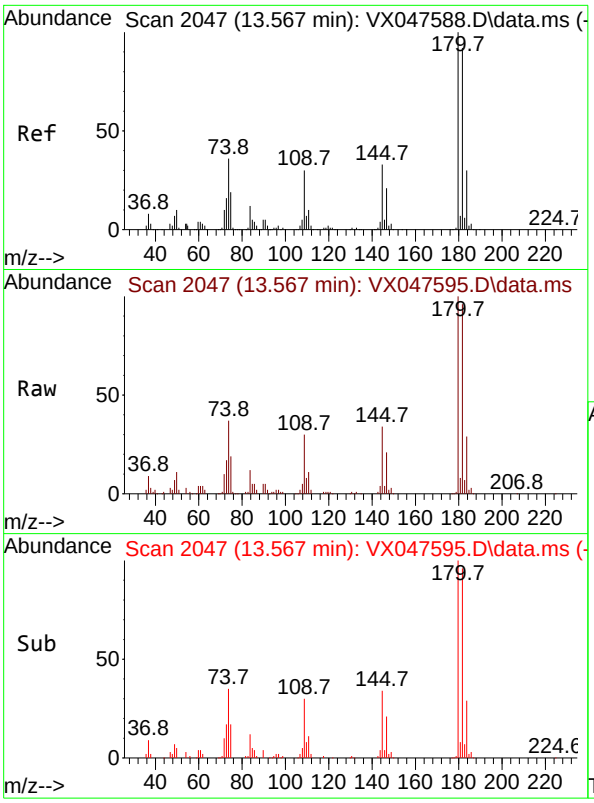


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.249 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion: 75 Resp: 13450

Ion	Ratio	Lower	Upper
75	100		
155	72.4	37.7	113.1
157	98.8	49.8	149.4

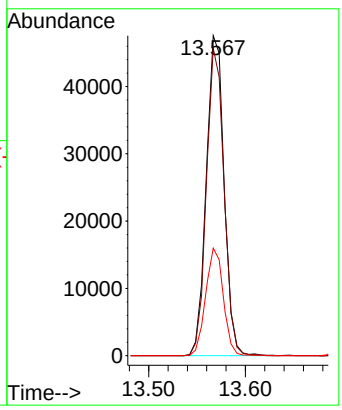




#93
1,2,4-Trichlorobenzene
Concen: 17.926 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:180 Resp: 6109

Ion	Ratio	Lower	Upper
180	100		
182	94.5	46.6	139.8
145	33.3	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
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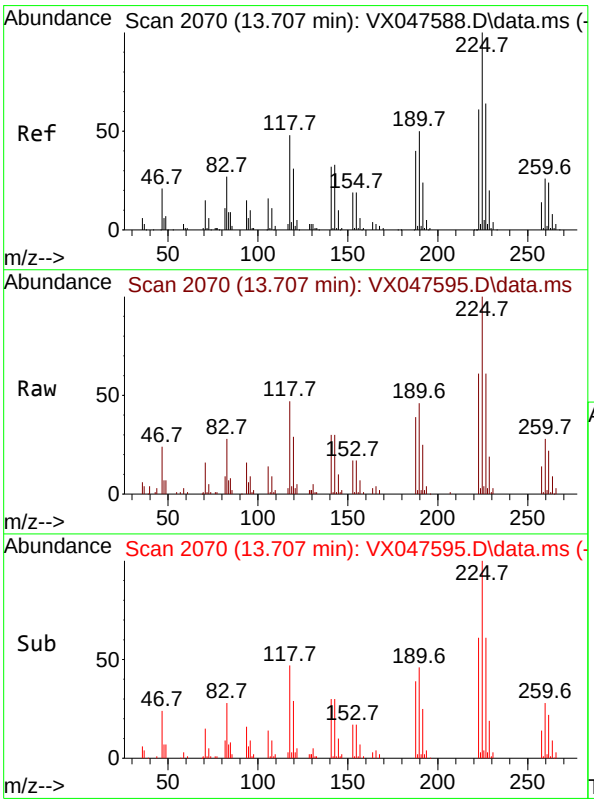
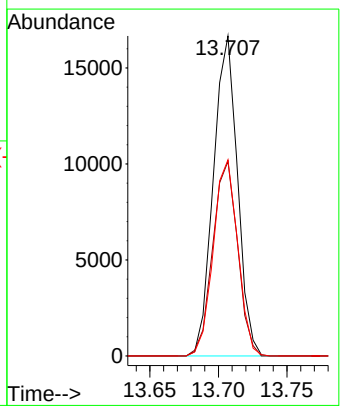
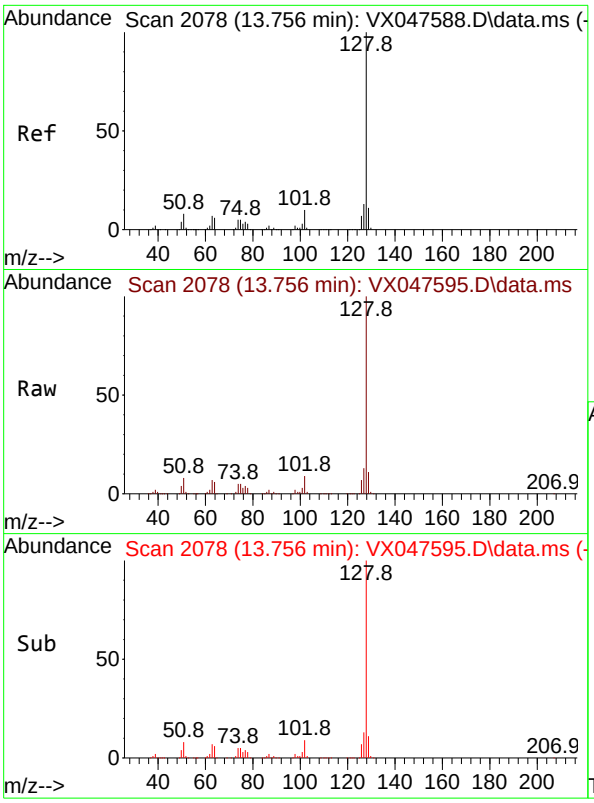


#94
Hexachlorobutadiene
Concen: 17.579 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:225 Resp: 20350

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.7	95.1
227	62.2	32.0	96.0

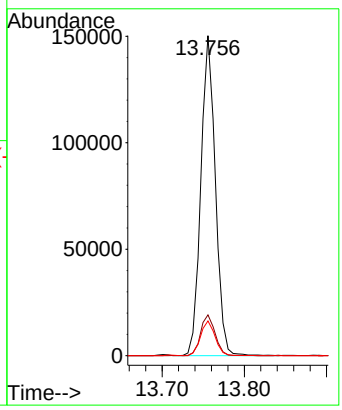




#95
Naphthalene
Concen: 17.754 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:128 Resp: 18425

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBS01

Manual Integrations
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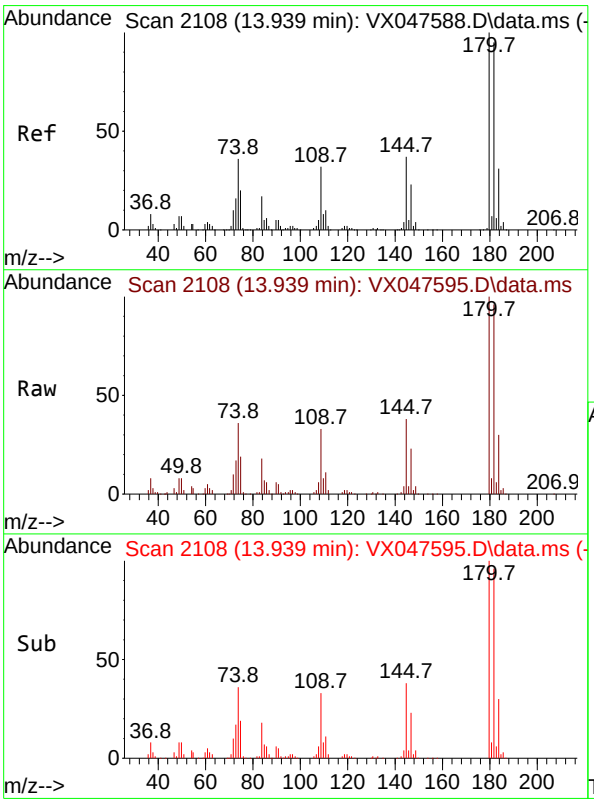
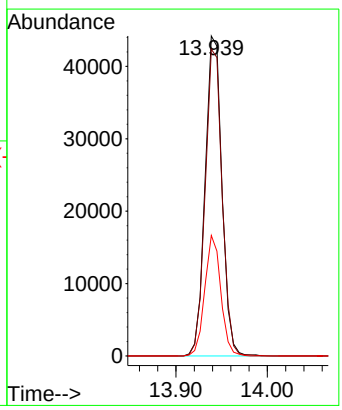
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.758 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047595.D
Acq: 16 Sep 2025 15:21

Tgt Ion:180 Resp: 56297

Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.6	142.8
145	35.9	17.9	53.7



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBSD01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBSD01	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
VX047596.D	1	09/16/25 15:46	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.8		0.22	5.00	ug/L
74-87-3	Chloromethane	17.0		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	18.3		0.26	5.00	ug/L
74-83-9	Bromomethane	20.0		1.40	5.00	ug/L
75-00-3	Chloroethane	18.6		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.9		0.33	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	5.00	ug/L
107-02-8	Acrolein	95.1		7.10	25.0	ug/L
107-13-1	Acrylonitrile	110		0.83	25.0	ug/L
67-64-1	Acetone	82.6		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	18.0		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0		0.16	5.00	ug/L
75-09-2	Methylene Chloride	19.1		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.23	5.00	ug/L
108-05-4	Vinyl Acetate	99.2		0.66	25.0	ug/L
75-34-3	1,1-Dichloroethane	19.5		0.23	5.00	ug/L
78-93-3	2-Butanone	98.8		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.5		0.25	5.00	ug/L
594-20-7	2,2-Dichloropropane	17.6		0.21	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.19	5.00	ug/L
74-97-5	Bromochloromethane	19.7		0.22	5.00	ug/L
67-66-3	Chloroform	20.0		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.20	5.00	ug/L
563-58-6	1,1-Dichloropropene	19.5		0.15	5.00	ug/L
71-43-2	Benzene	19.5		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.22	5.00	ug/L
79-01-6	Trichloroethene	19.5		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.20	5.00	ug/L
74-95-3	Dibromomethane	20.2		0.25	5.00	ug/L
75-27-4	Bromodichloromethane	19.9		0.22	5.00	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBSD01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBSD01	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
VX047596.D	1	09/16/25 15:46	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-10-1	4-Methyl-2-Pentanone	110		0.68	25.0	ug/L
108-88-3	Toluene	19.8		0.14	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.8		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.0		0.21	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.6		0.19	5.00	ug/L
110-75-8	2-Chloroethyl Vinyl ether	85.5		0.30	25.0	ug/L
591-78-6	2-Hexanone	100		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	20.1		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	19.7		0.23	5.00	ug/L
108-90-7	Chlorobenzene	19.6		0.12	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.7		0.19	5.00	ug/L
67-72-1	Hexachloroethane	19.7		0.32	5.00	ug/L
100-41-4	Ethyl Benzene	19.8		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	39.7		0.24	10.0	ug/L
1330-20-7	Total Xylenes	59.8		0.36	15.0	ug/L
95-47-6	o-Xylene	20.1		0.12	5.00	ug/L
100-42-5	Styrene	19.9		0.15	5.00	ug/L
75-25-2	Bromoform	20.2		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	20.1		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.26	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.6		0.35	5.00	ug/L
108-86-1	Bromobenzene	20.0		0.24	5.00	ug/L
103-65-1	n-propylbenzene	20.4		0.13	5.00	ug/L
95-49-8	2-Chlorotoluene	20.3		0.14	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.4		0.15	5.00	ug/L
106-43-4	4-Chlorotoluene	20.1		0.13	5.00	ug/L
98-06-6	tert-Butylbenzene	20.2		0.14	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.4		0.14	5.00	ug/L
135-98-8	sec-Butylbenzene	20.8		0.13	5.00	ug/L

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	VX0916WBSD01	SDG No.:	Q3015
Lab Sample ID:	VX0916WBSD01	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
VX047596.D	1	09/16/25 15:46	VX091625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	20.6		0.13	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	5.00	ug/L
104-51-8	n-Butylbenzene	20.9		0.15	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.2		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.5		0.20	5.00	ug/L
87-68-3	Hexachlorobutadiene	21.5		0.30	5.00	ug/L
91-20-3	Naphthalene	20.5		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.9		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	5.538			
540-36-3	1,4-Difluorobenzene	326000	6.745			
3114-55-4	Chlorobenzene-d5	291000	10.037			
3855-82-1	1,4-Dichlorobenzene-d4	139000	12.006			

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047596.D
Acq On : 16 Sep 2025 15:46
Operator : JC/MD
Sample : VX0916WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 06:50:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	181929	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	325791	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	290596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	138945	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	143852	49.675	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.360%			
35) Dibromofluoromethane	5.373	113	110341	50.501	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.000%			
50) Toluene-d8	8.635	98	381352	50.441	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.880%			
62) 4-Bromofluorobenzene	11.061	95	143314	49.948	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.900%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	33541	17.804	ug/l	98
3) Chloromethane	1.301	50	42090	16.999	ug/l	99
4) Vinyl Chloride	1.380	62	44278	18.269	ug/l	99
5) Bromomethane	1.618	94	30788	20.033	ug/l	100
6) Chloroethane	1.697	64	30116	18.591	ug/l	100
7) Trichlorofluoromethane	1.898	101	68166	18.942	ug/l	98
8) Diethyl Ether	2.136	74	28743	19.525	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	41009	19.489	ug/l	97
10) Methyl Iodide	2.453	142	58682	17.881	ug/l	99
11) Tert butyl alcohol	2.941	59	33012	102.356	ug/l	99
12) 1,1-Dichloroethene	2.325	96	41456	19.179	ug/l	99
13) Acrolein	2.233	56	28260	95.085	ug/l	99
14) Allyl chloride	2.666	41	82879	18.581	ug/l	98
15) Acrylonitrile	3.056	53	125531	105.079	ug/l	98
16) Acetone	2.374	43	103981	82.582	ug/l	100
17) Carbon Disulfide	2.514	76	106786	18.046	ug/l	99
18) Methyl Acetate	2.697	43	62108	22.164	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	158142	20.042	ug/l	97
20) Methylene Chloride	2.788	84	50905	19.100	ug/l	91
21) trans-1,2-Dichloroethene	3.093	96	44282	19.029	ug/l	98
22) Diisopropyl ether	3.751	45	172494	19.955	ug/l	98
23) Vinyl Acetate	3.709	43	686393	99.213	ug/l	98
24) 1,1-Dichloroethane	3.605	63	89388	19.455	ug/l	98
25) 2-Butanone	4.538	43	155163	98.792	ug/l	100
26) 2,2-Dichloropropane	4.459	77	67250	17.608	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	55188	19.365	ug/l	99
28) Bromochloromethane	4.879	49	39542	19.714	ug/l	99
29) Tetrahydrofuran	4.983	42	100103	105.947	ug/l	99
30) Chloroform	5.074	83	92774	19.982	ug/l	98
31) Cyclohexane	5.458	56	74519	19.474	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	78616	19.963	ug/l	99
36) 1,1-Dichloropropene	5.678	75	62129	19.460	ug/l	100
37) Ethyl Acetate	4.696	43	65824	19.255	ug/l	99
38) Carbon Tetrachloride	5.666	117	67477	19.452	ug/l	97
39) Methylcyclohexane	7.367	83	71729	19.792	ug/l	98
40) Benzene	6.019	78	188914	19.482	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047596.D
Acq On : 16 Sep 2025 15:46
Operator : JC/MD
Sample : VX0916WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 06:50:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.904	41	37973	21.517	ug/l		96
42) 1,2-Dichloroethane	6.068	62	72019	19.519	ug/l		100
43) Isopropyl Acetate	6.318	43	114850	20.485	ug/l		99
44) Trichloroethene	7.111	130	45822	19.545	ug/l		95
45) 1,2-Dichloropropane	7.409	63	49402	19.896	ug/l		98
46) Dibromomethane	7.568	93	36432	20.163	ug/l		100
47) Bromodichloromethane	7.806	83	74310	19.929	ug/l		98
48) Methyl methacrylate	7.678	41	57119	20.453	ug/l		99
49) 1,4-Dioxane	7.647	88	12568	445.313	ug/l		95
51) 4-Methyl-2-Pentanone	8.555	43	334554	107.626	ug/l		99
52) Toluene	8.702	92	118098	19.768	ug/l		99
53) t-1,3-Dichloropropene	8.964	75	75376	19.819	ug/l		100
54) cis-1,3-Dichloropropene	8.348	75	78552	19.323	ug/l		100
55) 1,1,2-Trichloroethane	9.135	97	45960	19.951	ug/l		98
56) Ethyl methacrylate	9.098	69	75840	20.963	ug/l		97
57) 1,3-Dichloropropane	9.293	76	81467	20.586	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.226	63	134952	85.465	ug/l		100
59) 2-Hexanone	9.415	43	229946	102.998	ug/l		99
60) Dibromochloromethane	9.507	129	53277	20.072	ug/l		98
61) 1,2-Dibromoethane	9.592	107	48384	20.620	ug/l		99
64) Tetrachloroethene	9.257	164	37273	19.676	ug/l		98
65) Chlorobenzene	10.061	112	129302	19.586	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.147	131	44780	19.657	ug/l		99
67) Ethyl Benzene	10.177	91	225886	19.830	ug/l		100
68) m/p-Xylenes	10.287	106	168342	39.705	ug/l		99
69) o-Xylene	10.622	106	82454	20.107	ug/l		99
70) Styrene	10.640	104	143120	19.918	ug/l		99
71) Bromoform	10.781	173	34379	20.211	ug/l	#	97
73) Isopropylbenzene	10.945	105	212387	20.106	ug/l		99
74) N-amyl acetate	10.823	43	101337	21.037	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.195	83	65156	20.387	ug/l		99
76) 1,2,3-Trichloropropane	11.220	75	52267m	18.579	ug/l		
77) Bromobenzene	11.183	156	51964	19.973	ug/l		99
78) n-propylbenzene	11.287	91	254737	20.400	ug/l		100
79) 2-Chlorotoluene	11.348	91	155389	20.317	ug/l		100
80) 1,3,5-Trimethylbenzene	11.433	105	177272	20.426	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.000	75	20638	18.708	ug/l		97
82) 4-Chlorotoluene	11.439	91	181551	20.099	ug/l		100
83) tert-Butylbenzene	11.695	119	179765	20.234	ug/l		100
84) 1,2,4-Trimethylbenzene	11.732	105	179835	20.438	ug/l		100
85) sec-Butylbenzene	11.872	105	219002	20.753	ug/l		100
86) p-Isopropyltoluene	11.994	119	183853	20.579	ug/l		98
87) 1,3-Dichlorobenzene	11.951	146	98732	20.431	ug/l		98
88) 1,4-Dichlorobenzene	12.024	146	98157	19.791	ug/l		99
89) n-Butylbenzene	12.311	91	172398	20.855	ug/l		99
90) Hexachloroethane	12.518	117	30936	19.723	ug/l		99
91) 1,2-Dichlorobenzene	12.317	146	93305	20.267	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	13089	20.228	ug/l		96
93) 1,2,4-Trichlorobenzene	13.567	180	61351	20.504	ug/l		99
94) Hexachlorobutadiene	13.707	225	21855	21.504	ug/l		99
95) Naphthalene	13.756	128	186510	20.470	ug/l		100
96) 1,2,3-Trichlorobenzene	13.939	180	58065	20.862	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047596.D
Acq On : 16 Sep 2025 15:46
Operator : JC/MD
Sample : VX0916WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 06:50:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047596.D
Acq On : 16 Sep 2025 15:46
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Misc : 5.0mL/MSVOA_X/WATER
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Quant Time: Sep 17 06:50:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations APPROVED

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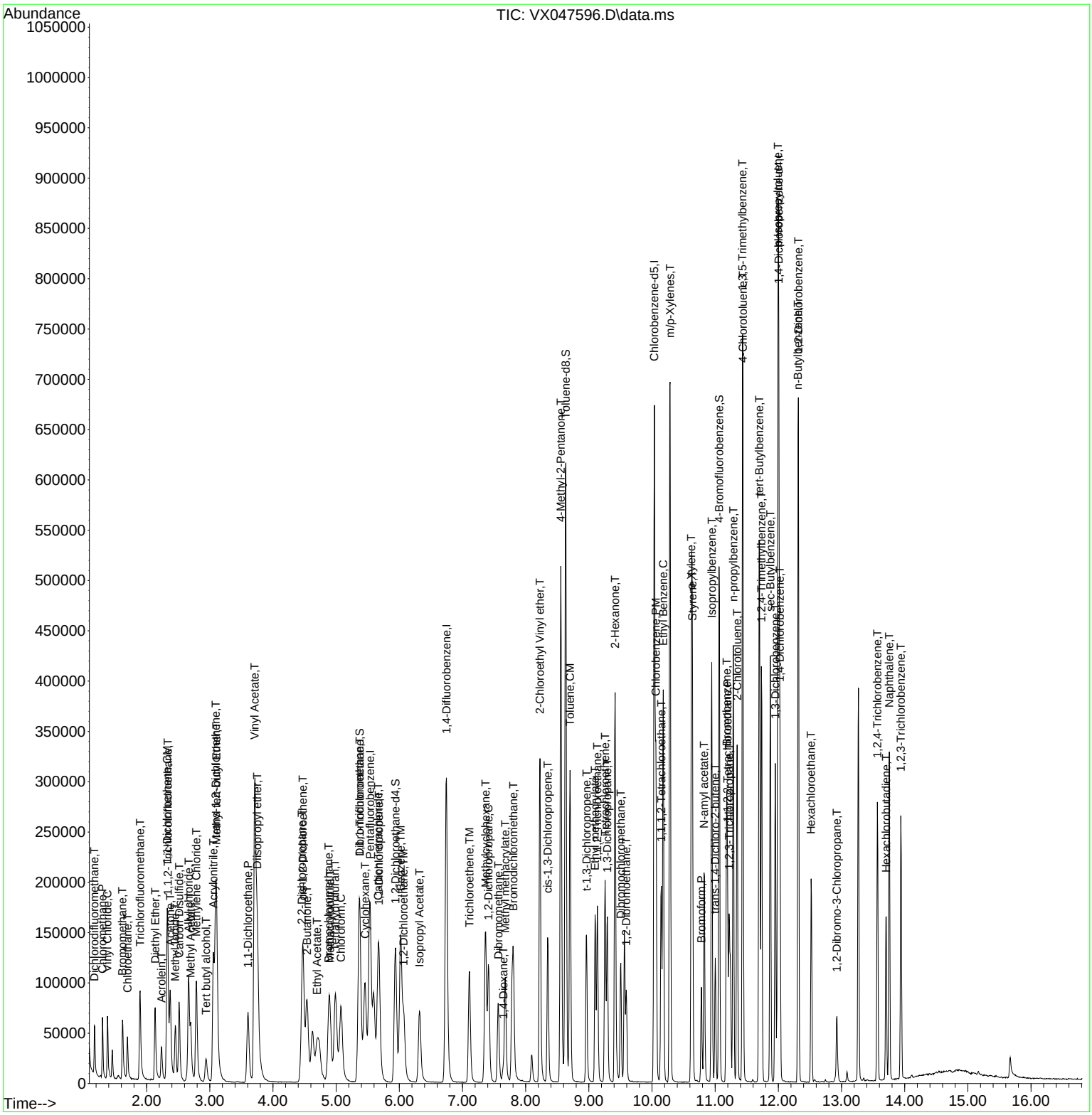
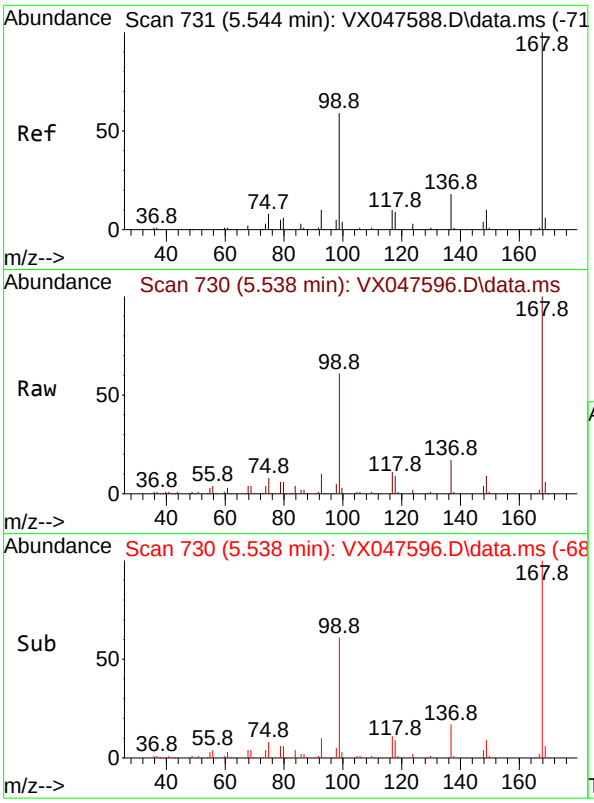
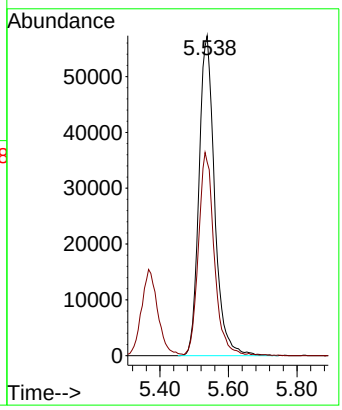




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:168 Resp: 18192

Ion	Ratio	Lower	Upper
168	100		
99	60.3	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

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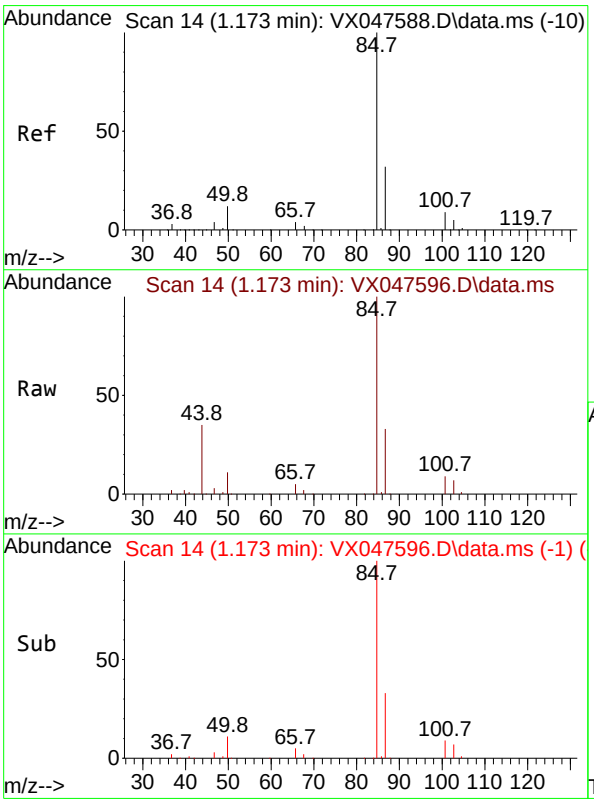
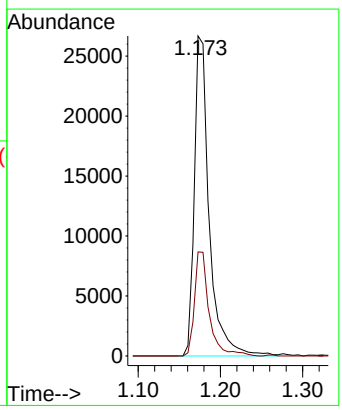
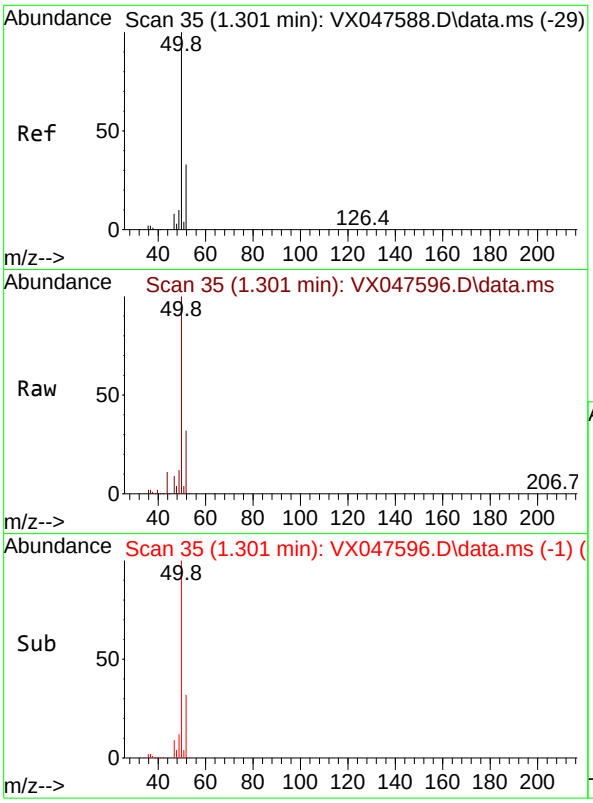


#2
Dichlorodifluoromethane
Concen: 17.804 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 85 Resp: 33541

Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.8	47.3

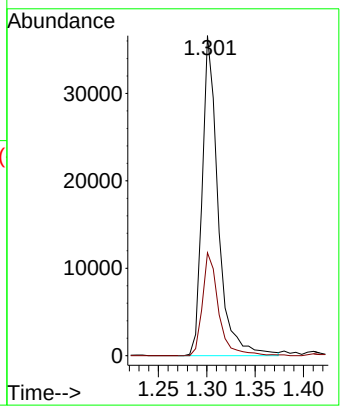




#3
Chloromethane
Concen: 16.999 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 50 Resp: 4209

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.1	39.1



Instrument :
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ClientSampleId :
VX0916WBSD01

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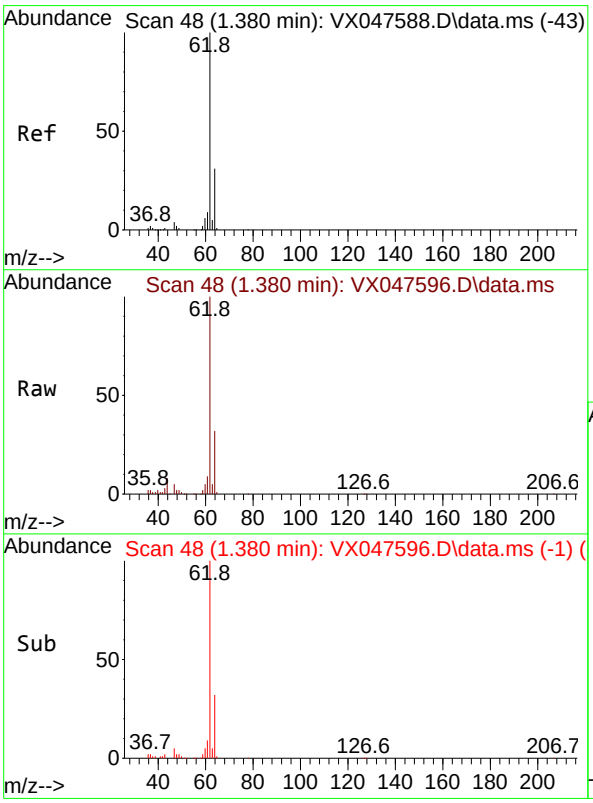
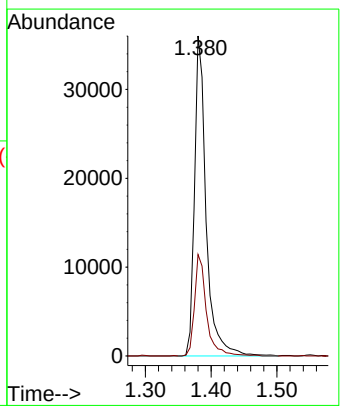
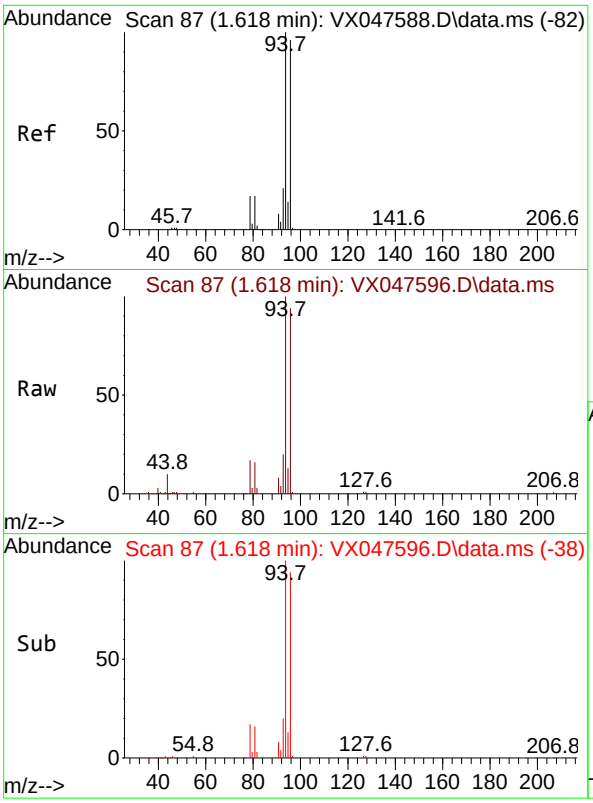


#4
Vinyl Chloride
Concen: 18.269 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 62 Resp: 44278

Ion	Ratio	Lower	Upper
62	100		
64	31.7	24.9	37.3

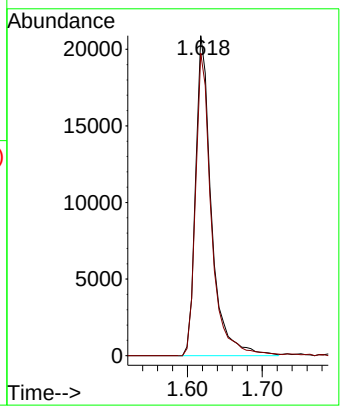




#5
Bromomethane
Concen: 20.033 ug/l
RT: 1.618 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 94 Resp: 3078

Ion	Ratio	Lower	Upper
94	100		
96	95.7	76.6	115.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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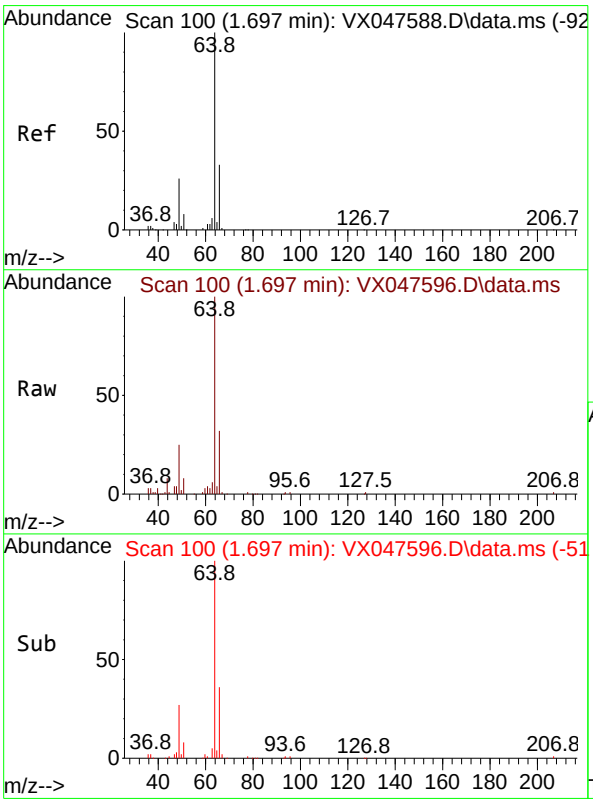
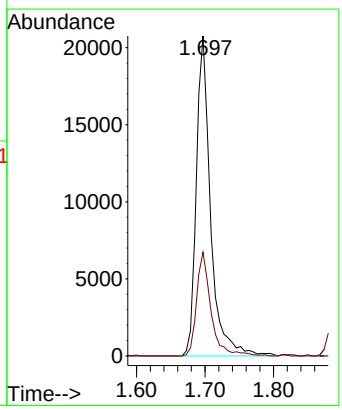
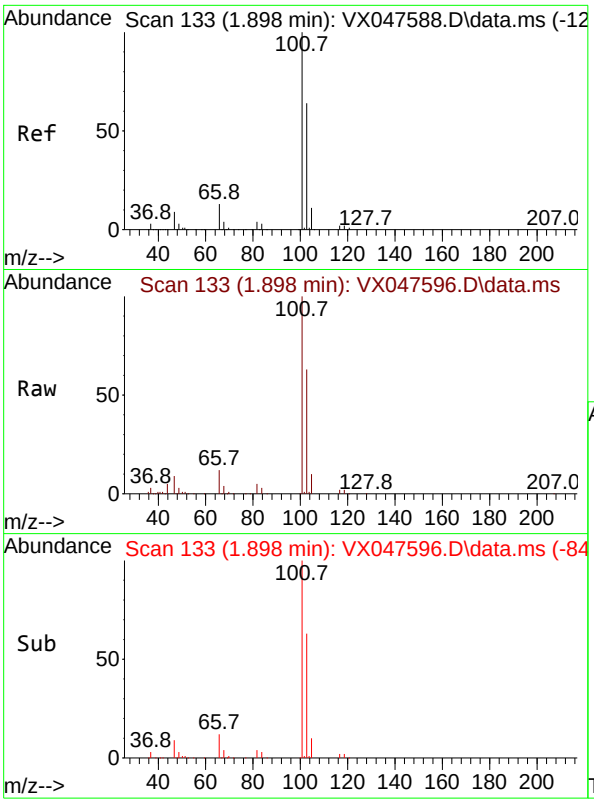


#6
Chloroethane
Concen: 18.591 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 64 Resp: 30116

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.1	39.1

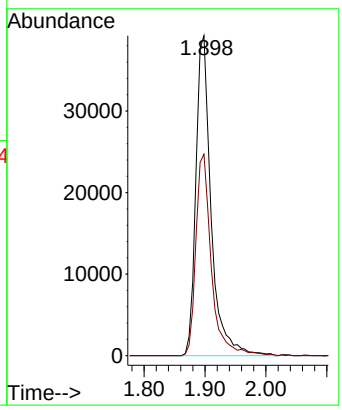




#7
Trichlorofluoromethane
Concen: 18.942 ug/l
RT: 1.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:101 Resp: 6816

Ion	Ratio	Lower	Upper
101	100		
103	63.0	51.4	77.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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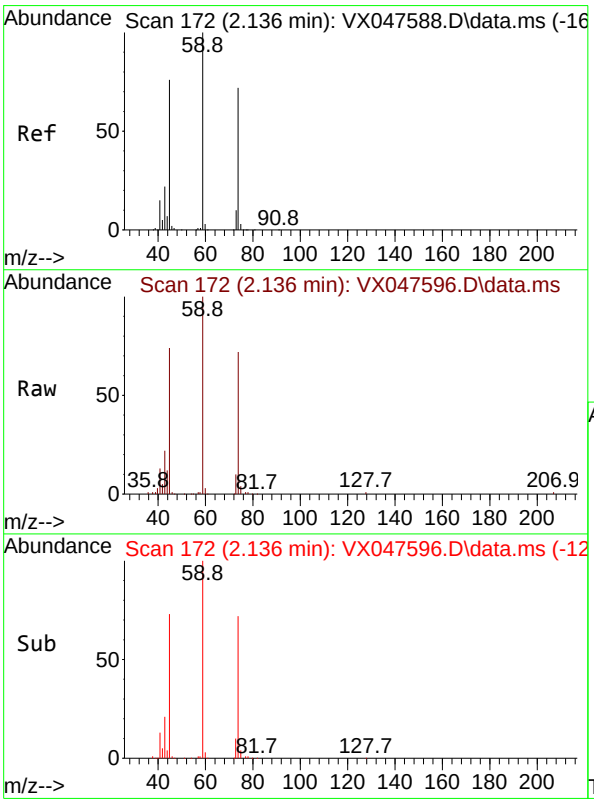
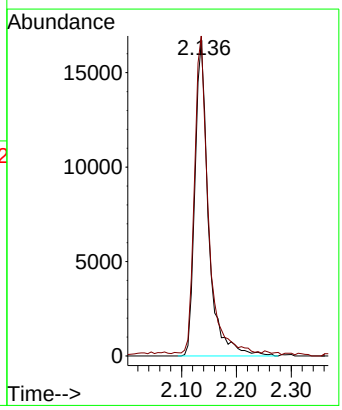
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

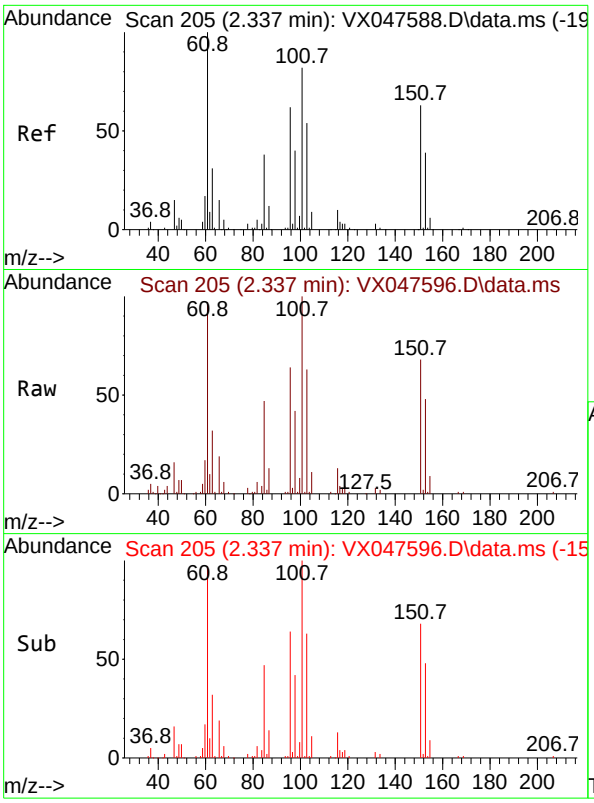


#8
Diethyl Ether
Concen: 19.525 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 74 Resp: 28743

Ion	Ratio	Lower	Upper
74	100		
45	102.7	52.3	156.8

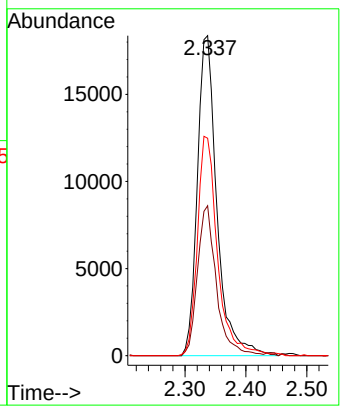




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.489 ug/l
RT: 2.337 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:101 Resp: 4100

Ion	Ratio	Lower	Upper
101	100		
85	45.5	35.5	53.3
151	70.8	59.4	89.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
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Reviewed By :John Carlone 09/17/2025
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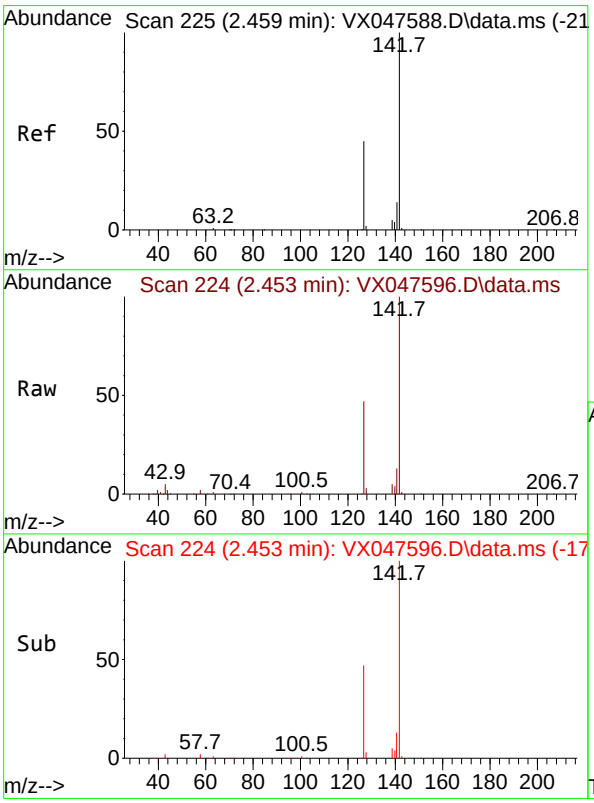
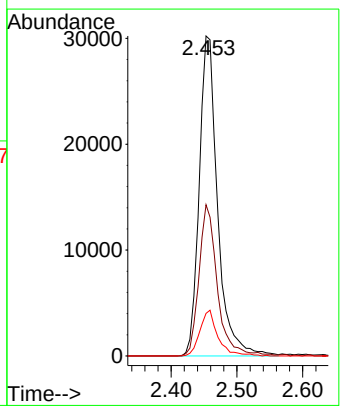
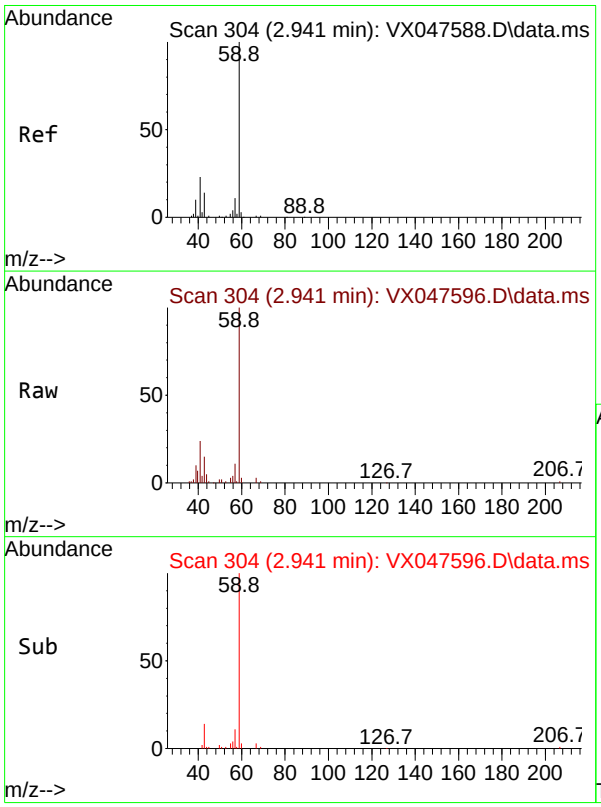


#10
Methyl Iodide
Concen: 17.881 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:142 Resp: 58682

Ion	Ratio	Lower	Upper
142	100		
127	47.2	37.2	55.8
141	14.0	11.4	17.0





#11
Tert butyl alcohol
Concen: 102.356 ug/l
RT: 2.941 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 59 Resp: 3301

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
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Reviewed By :John Carlone 09/17/2025
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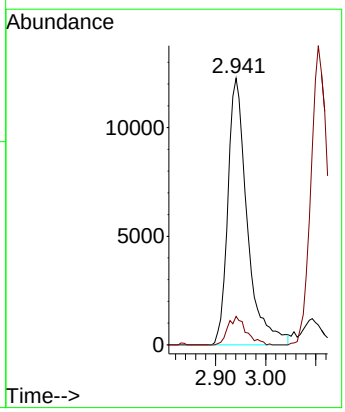
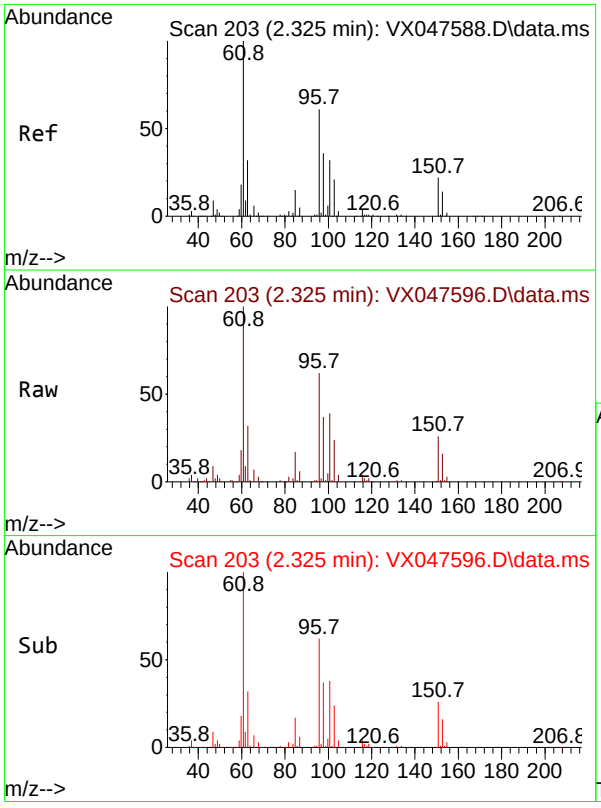
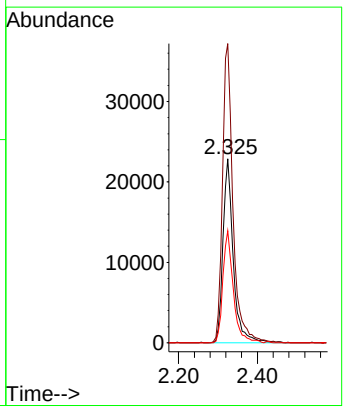


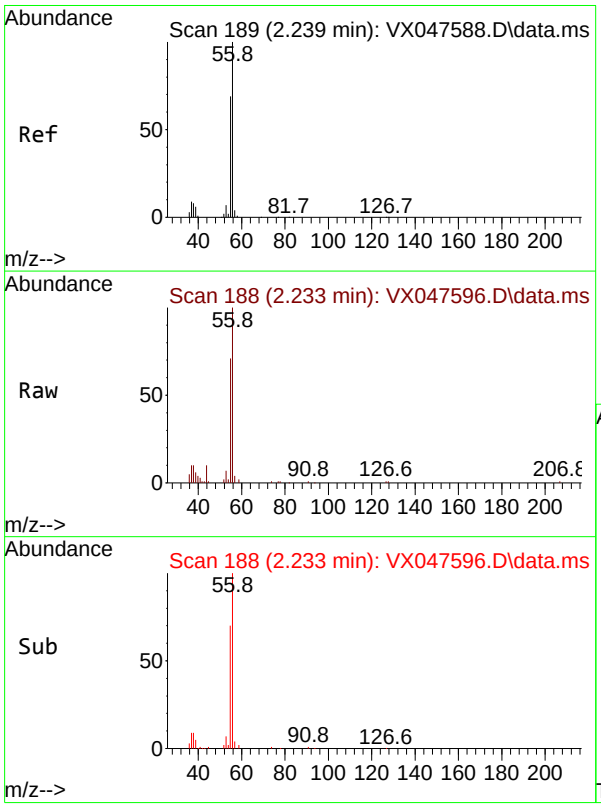


#12
1,1-Dichloroethene
Concen: 19.179 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 96 Resp: 41456

Ion	Ratio	Lower	Upper
96	100		
61	162.6	131.0	196.6
98	60.8	47.7	71.5





#13
Acrolein
Concen: 95.085 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 56 Resp: 2826

Ion	Ratio	Lower	Upper
56	100		
55	71.0	57.2	85.8

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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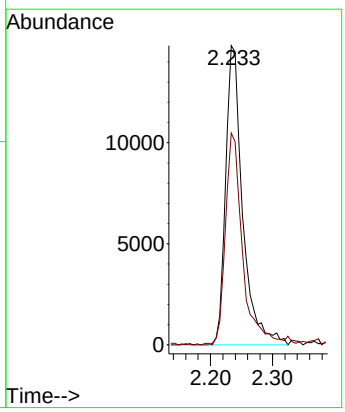
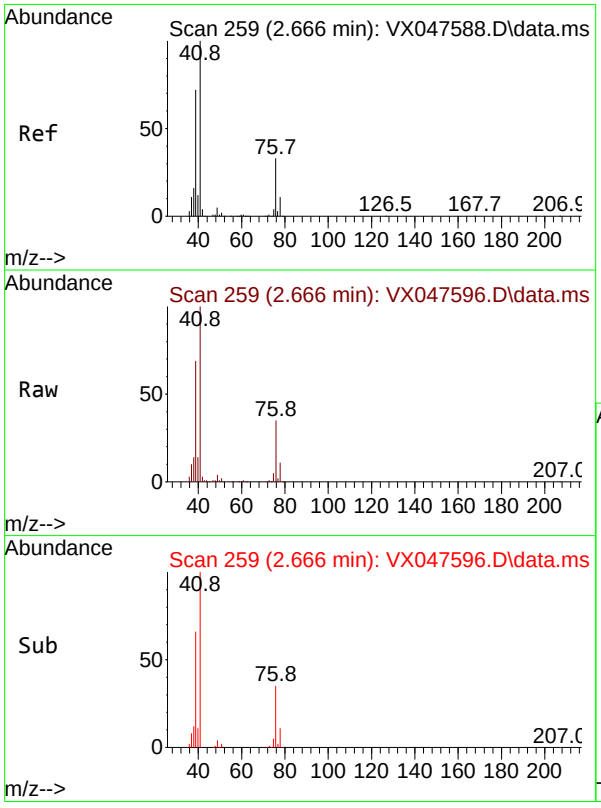
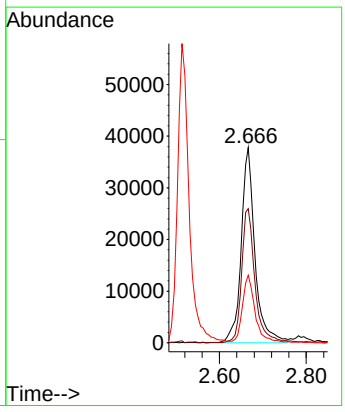


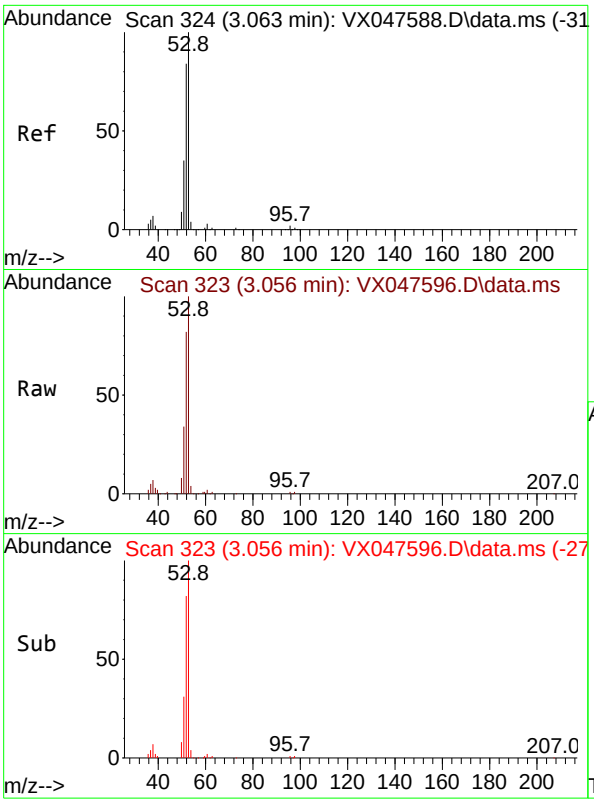


#14
Allyl chloride
Concen: 18.581 ug/l
RT: 2.666 min Scan# 259
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 41 Resp: 82879

Ion	Ratio	Lower	Upper
41	100		
39	66.2	54.7	82.1
76	31.2	25.7	38.5





#15
Acrylonitrile
Concen: 105.079 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 53 Resp: 12553

Ion	Ratio	Lower	Upper
53	100		
52	81.5	66.4	99.6
51	35.7	29.5	44.3

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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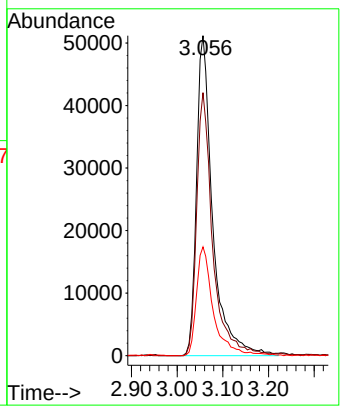
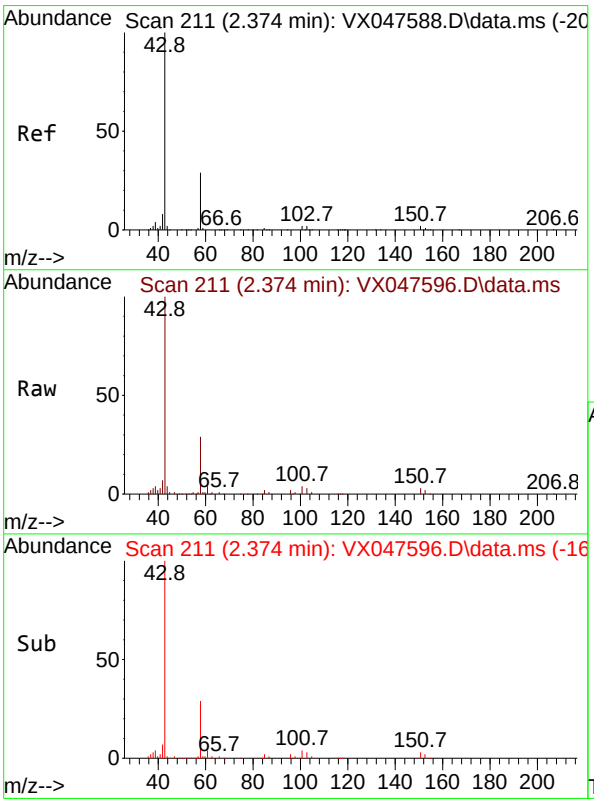
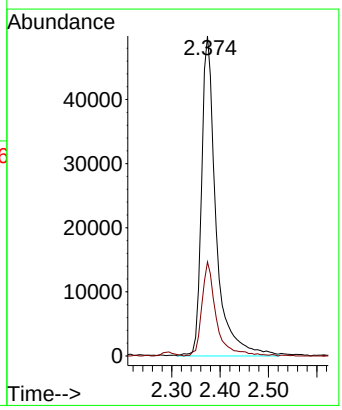


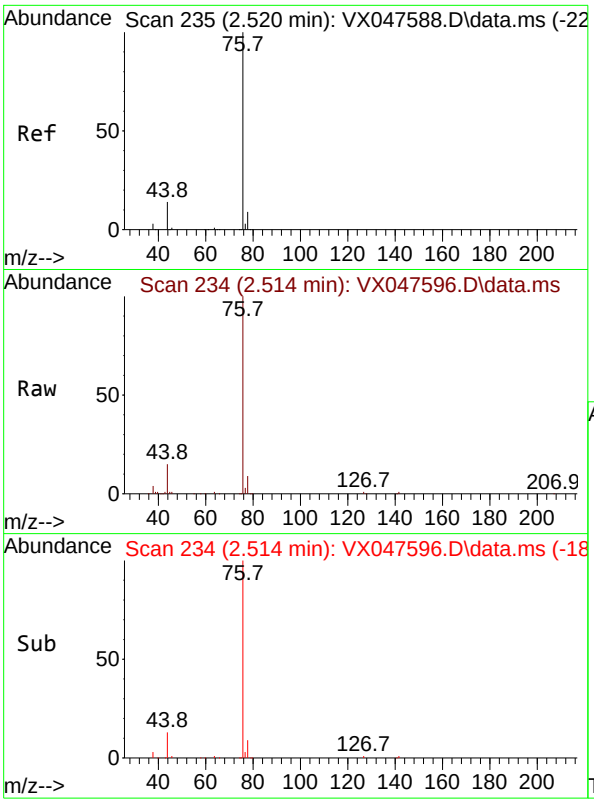


#16
Acetone
Concen: 82.582 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 103981

Ion	Ratio	Lower	Upper
43	100		
58	29.4	23.4	35.0

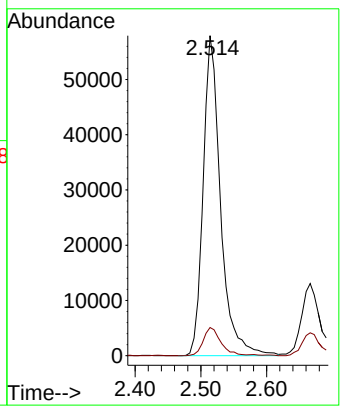




#17
Carbon Disulfide
Concen: 18.046 ug/l
RT: 2.514 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 76 Resp: 10678

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.8	10.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
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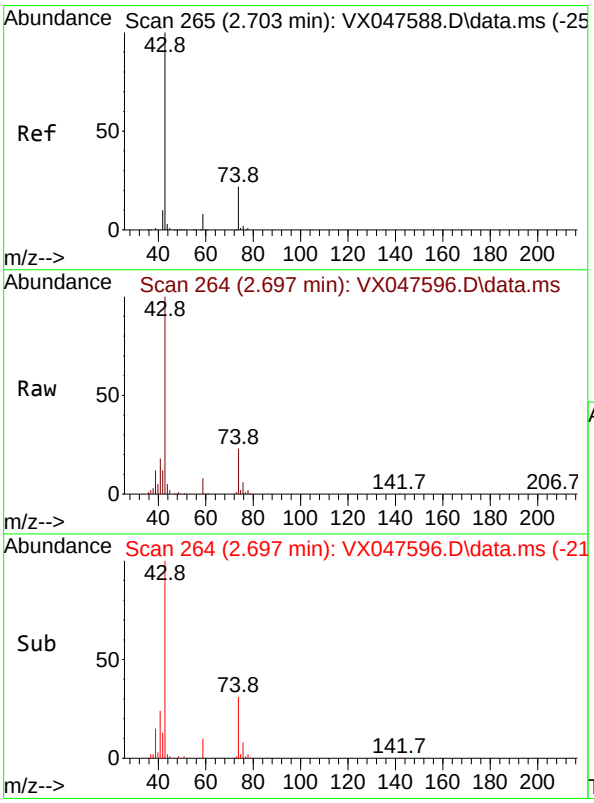
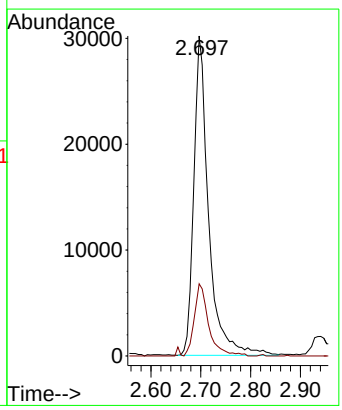
Supervised By :Mahesh Dadoda 09/18/2025

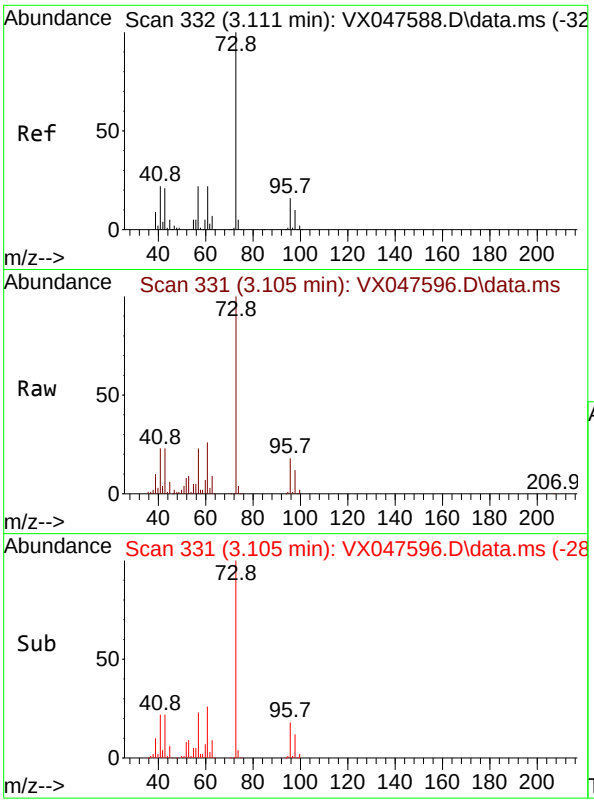


#18
Methyl Acetate
Concen: 22.164 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 62108

Ion	Ratio	Lower	Upper
43	100		
74	21.9	17.4	26.2

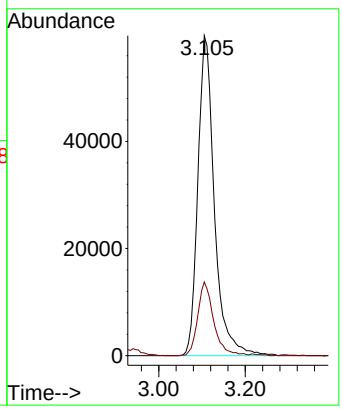




#19
Methyl tert-butyl Ether
Concen: 20.042 ug/l
RT: 3.105 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 73 Resp: 15814

Ion	Ratio	Lower	Upper
73	100		
57	23.1	17.4	26.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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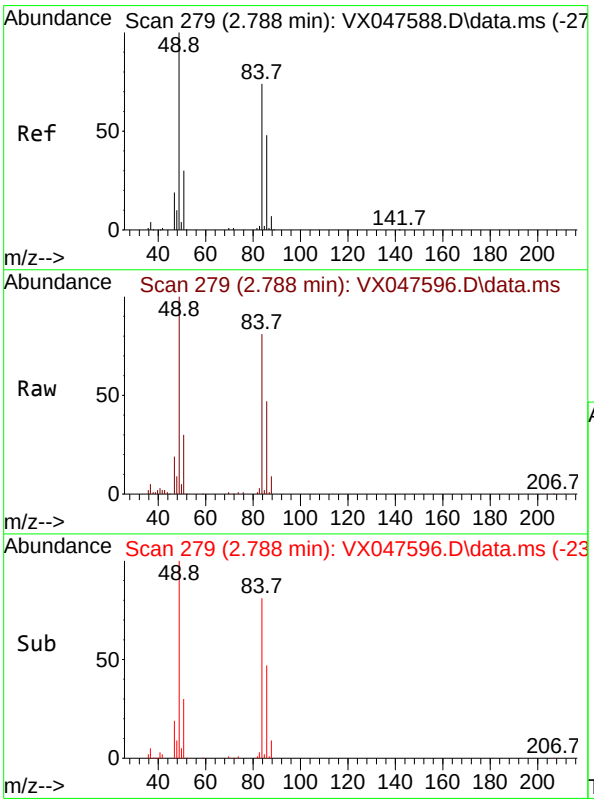
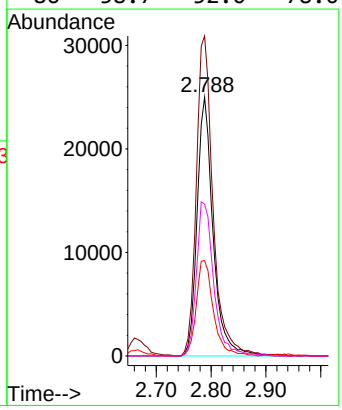
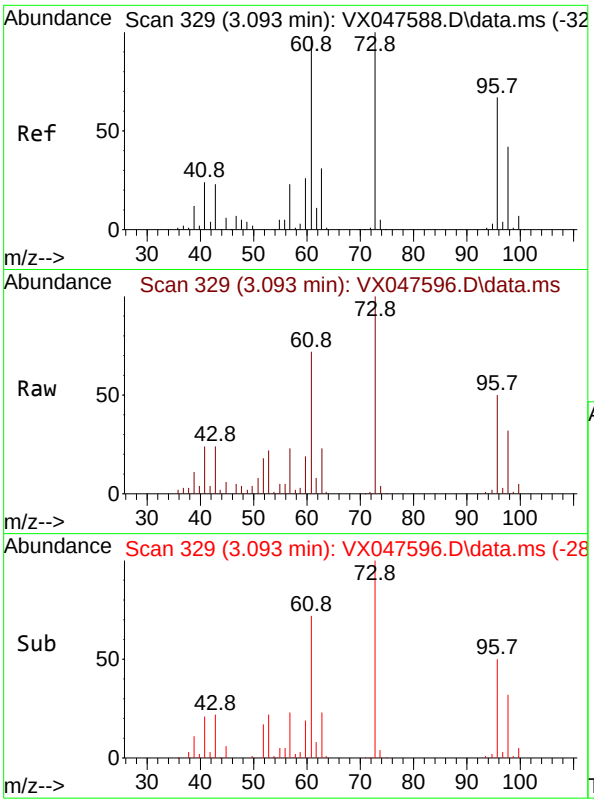


#20
Methylene Chloride
Concen: 19.100 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 84 Resp: 50905

Ion	Ratio	Lower	Upper
84	100		
49	123.7	108.6	162.8
51	36.9	32.6	48.8
86	58.7	52.0	78.0

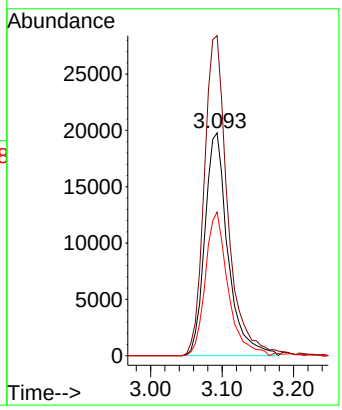




#21
trans-1,2-Dichloroethene
Concen: 19.029 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 96 Resp: 4428

Ion	Ratio	Lower	Upper
96	100		
61	143.7	116.2	174.2
98	64.5	49.3	73.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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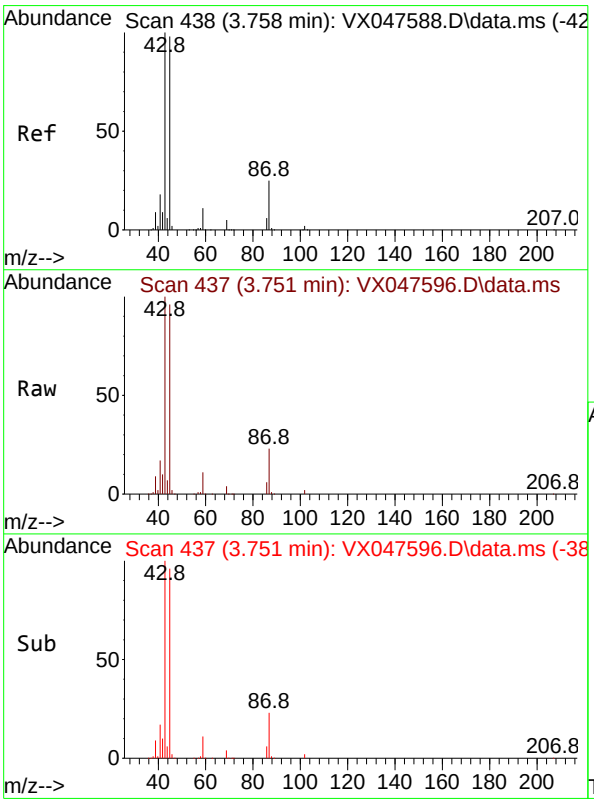
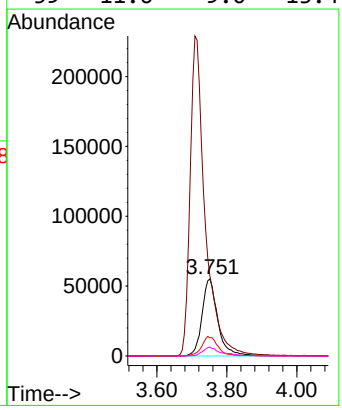
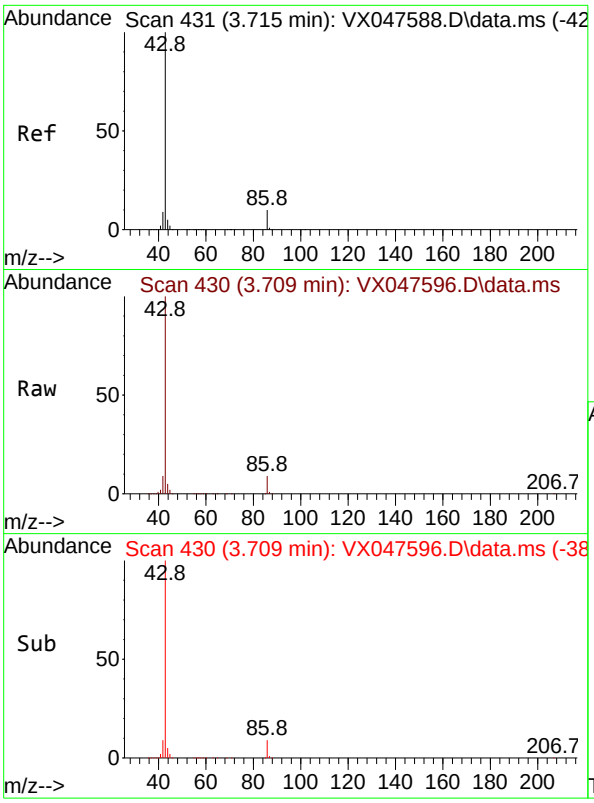


#22
Diisopropyl ether
Concen: 19.955 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 45 Resp: 172494

Ion	Ratio	Lower	Upper
45	100		
43	103.6	81.0	121.4
87	23.6	20.3	30.5
59	11.6	9.0	13.4

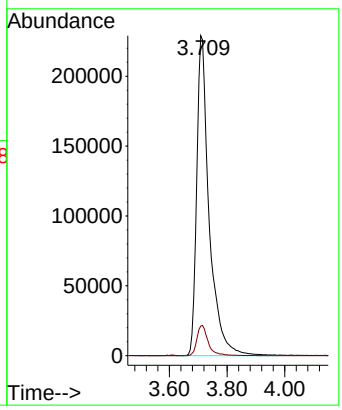




#23
Vinyl Acetate
Concen: 99.213 ug/l
RT: 3.709 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 68639

Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.8	11.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
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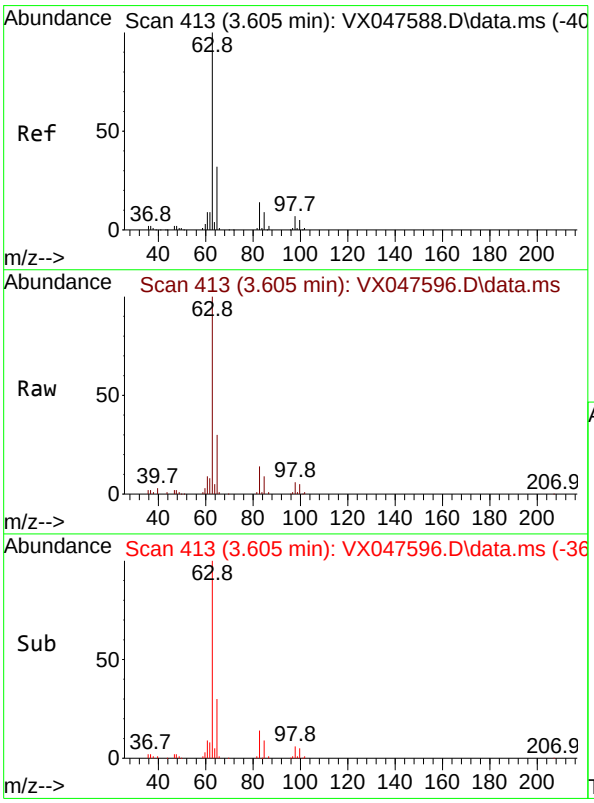
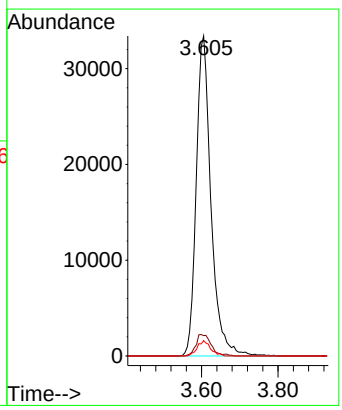
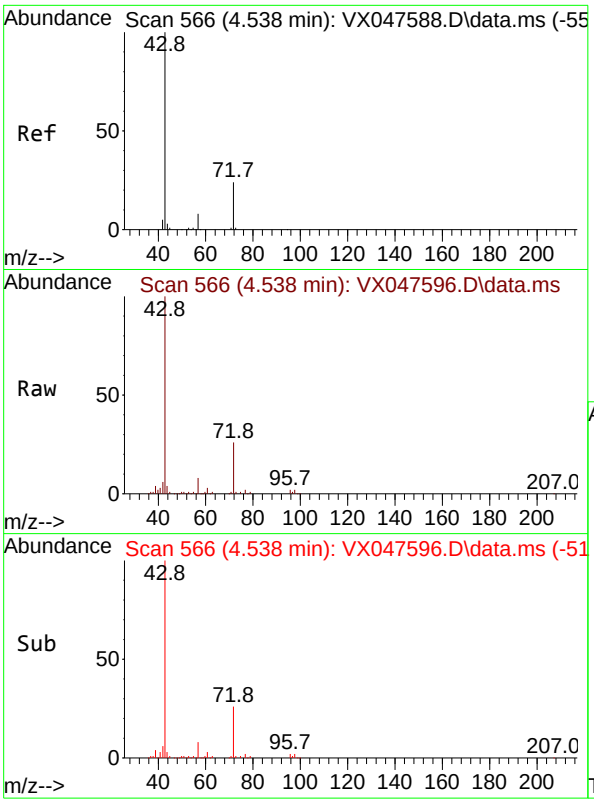


#24
1,1-Dichloroethane
Concen: 19.455 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 63 Resp: 89388

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.8	11.2
100	4.8	2.3	6.9





#25
2-Butanone
Concen: 98.792 ug/l
RT: 4.538 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 15516

Ion	Ratio	Lower	Upper
43	100		
72	24.9	20.1	30.1

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
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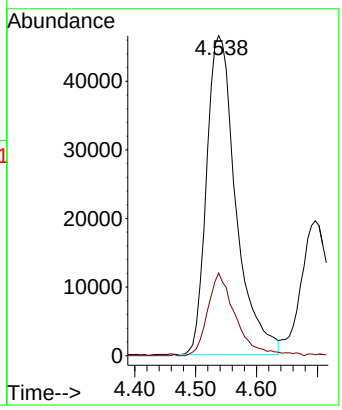
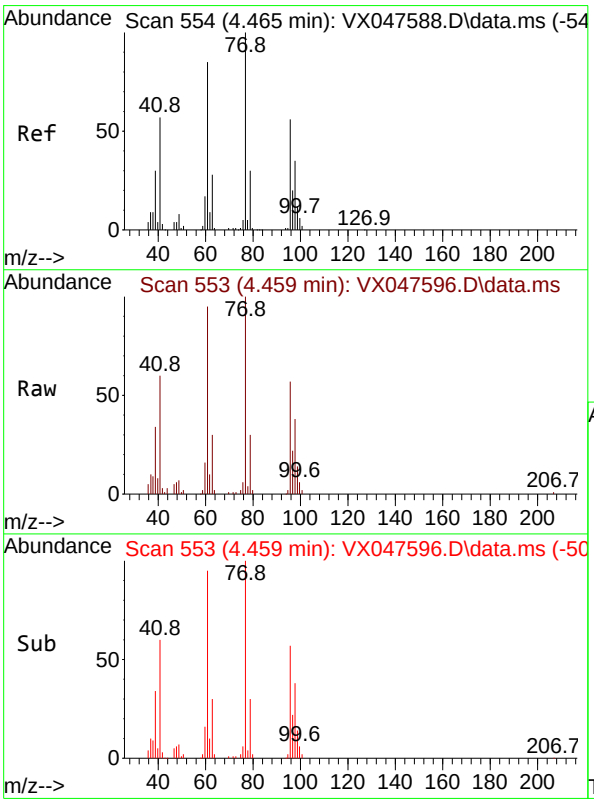
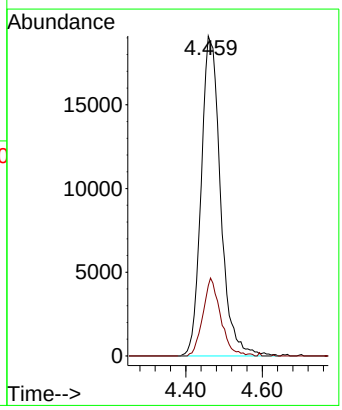


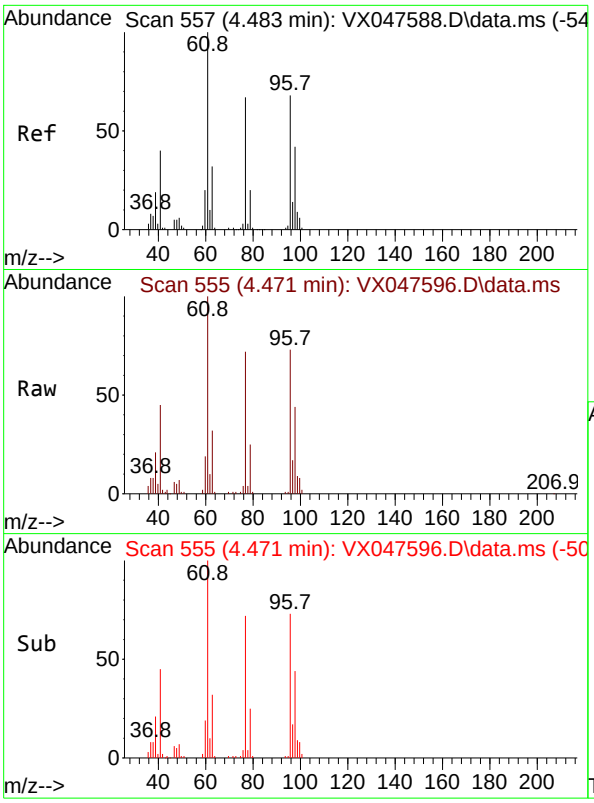


#26
2,2-Dichloropropane
Concen: 17.608 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 77 Resp: 67250

Ion	Ratio	Lower	Upper
77	100		
97	22.3	10.9	32.7

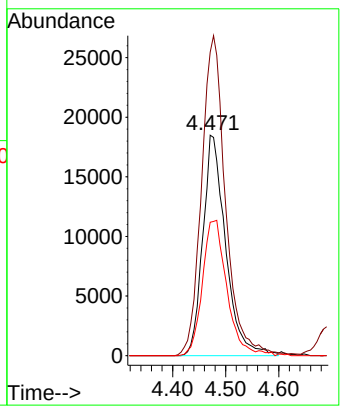




#27
cis-1,2-Dichloroethene
Concen: 19.365 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 96 Resp: 5518

Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	303.2
98	66.1	0.0	127.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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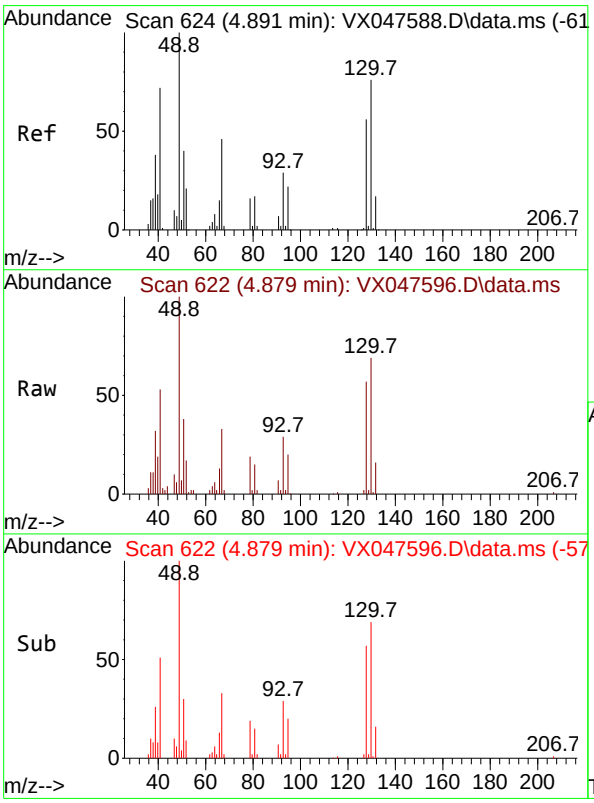
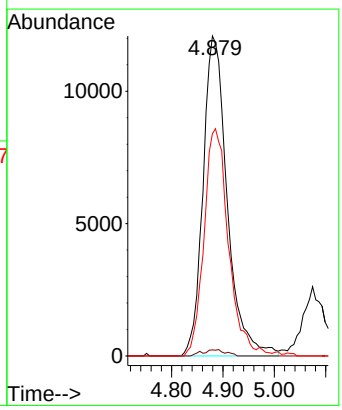
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

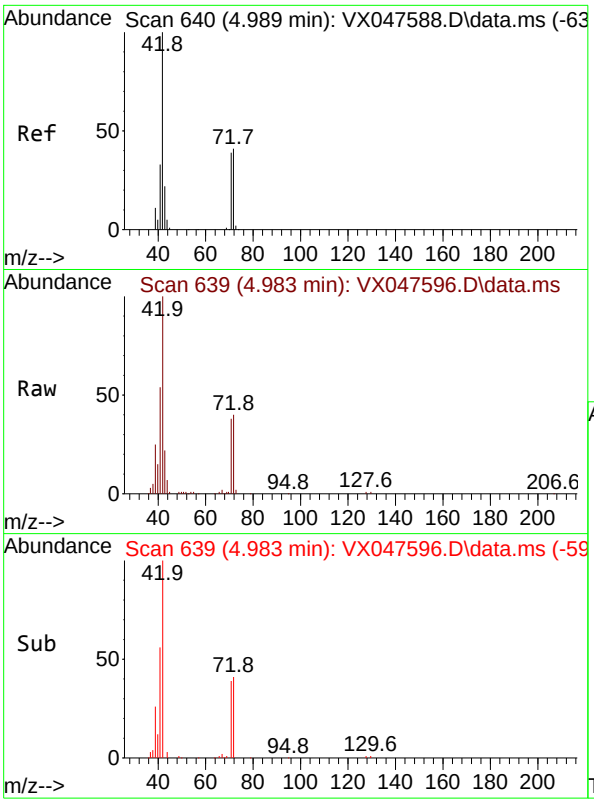


#28
Bromochloromethane
Concen: 19.714 ug/l
RT: 4.879 min Scan# 622
Delta R.T. -0.012 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 49 Resp: 39542

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.2
130	71.7	57.8	86.8

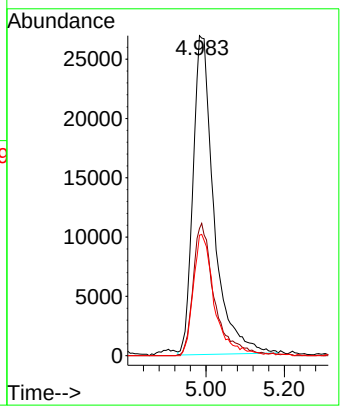




#29
Tetrahydrofuran
Concen: 105.947 ug/l
RT: 4.983 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 42 Resp: 10010

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.2	51.2
71	38.4	31.9	47.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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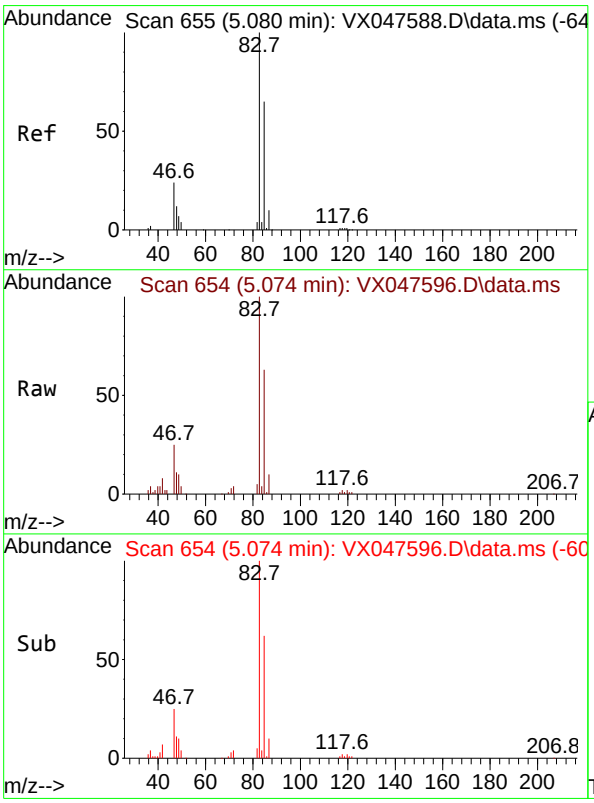
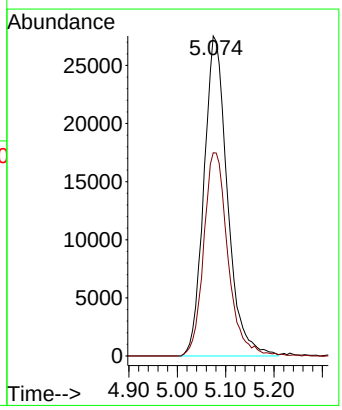
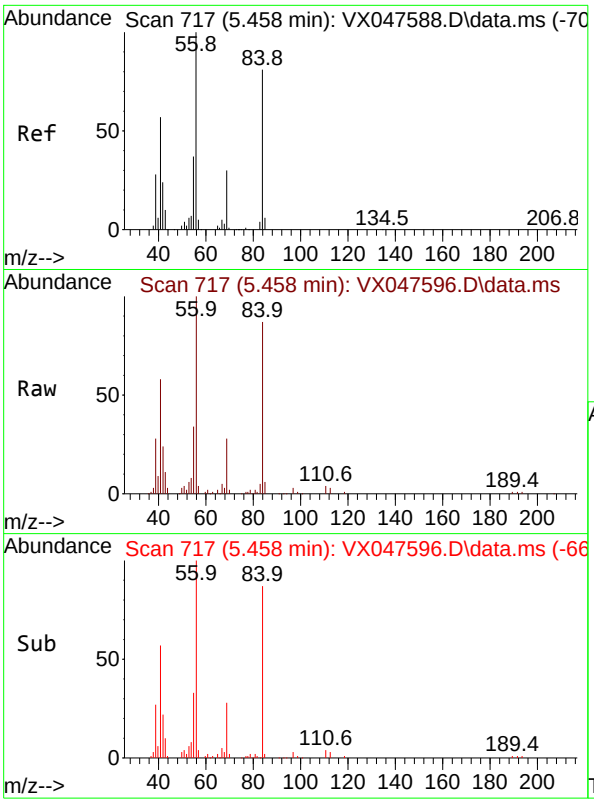


#30
Chloroform
Concen: 19.982 ug/l
RT: 5.074 min Scan# 654
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 83 Resp: 92774

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.6

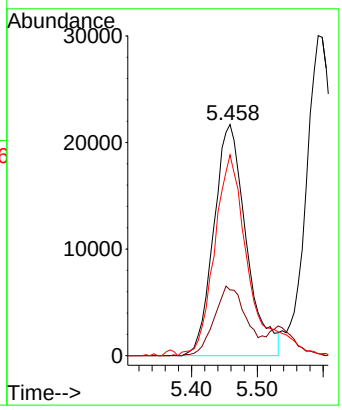




#31
Cyclohexane
Concen: 19.474 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 56 Resp: 7451

Ion	Ratio	Lower	Upper
56	100		
69	28.5	23.8	35.8
84	86.8	64.6	97.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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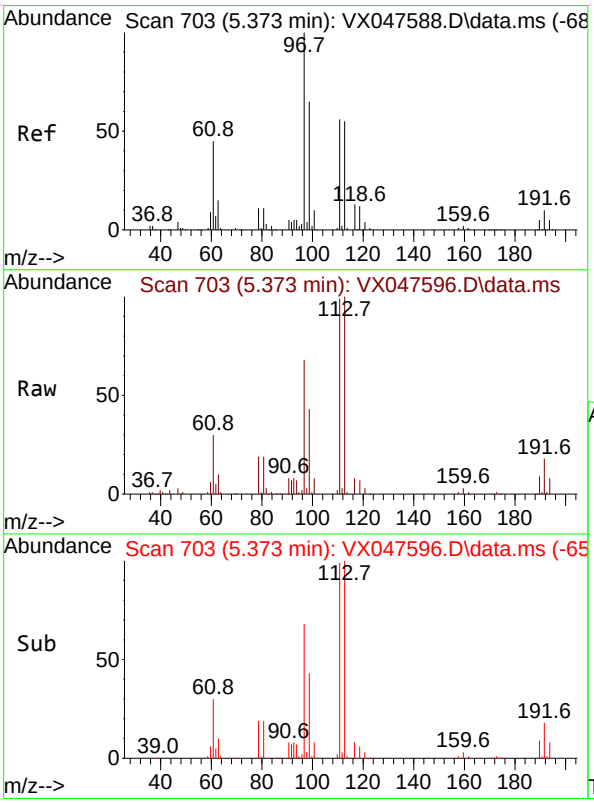
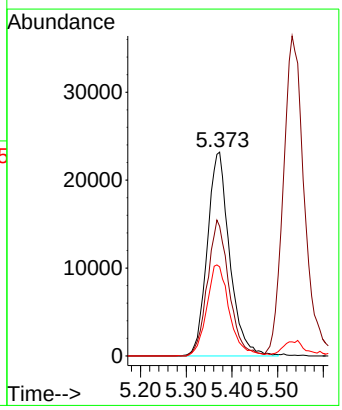
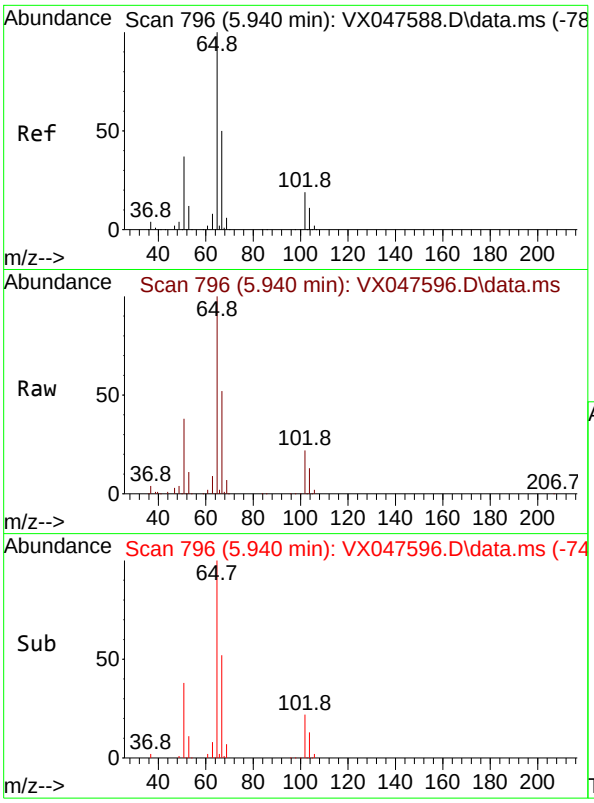


#32
1,1,1-Trichloroethane
Concen: 19.963 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 97 Resp: 78616

Ion	Ratio	Lower	Upper
97	100		
99	64.6	50.6	76.0
61	45.2	35.8	53.8

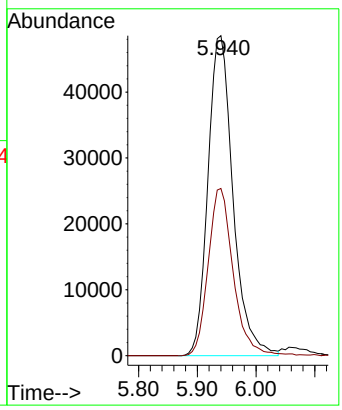




#33
1,2-Dichloroethane-d4
Concen: 49.675 ug/l
RT: 5.940 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 65 Resp: 14385

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	103.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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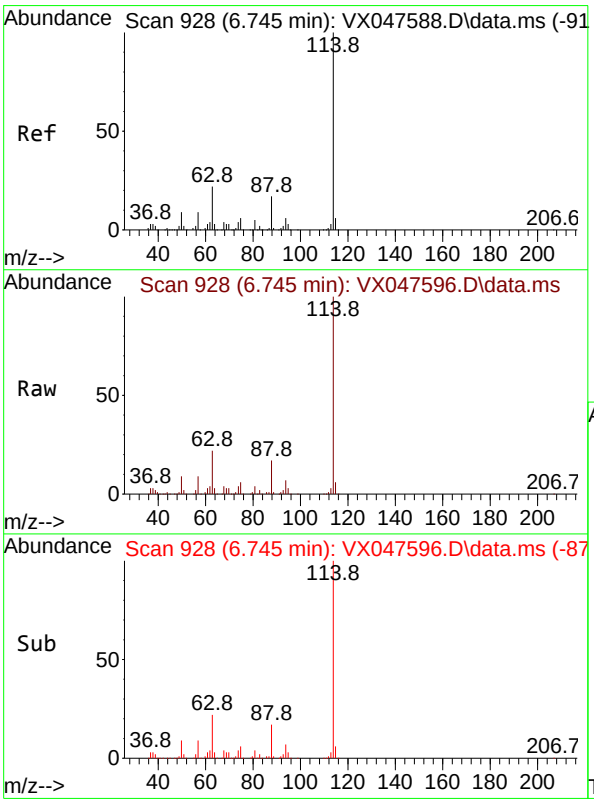
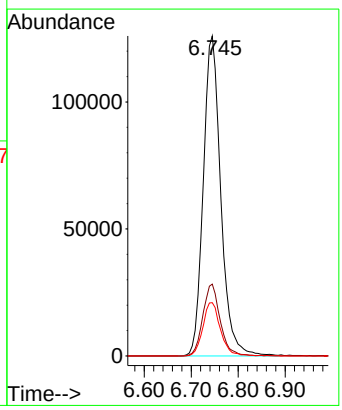
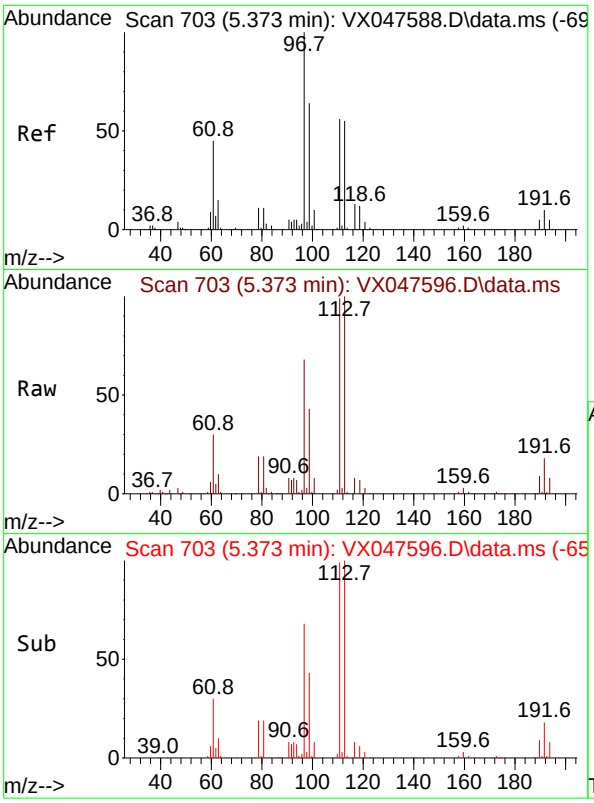


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:114 Resp: 325791

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

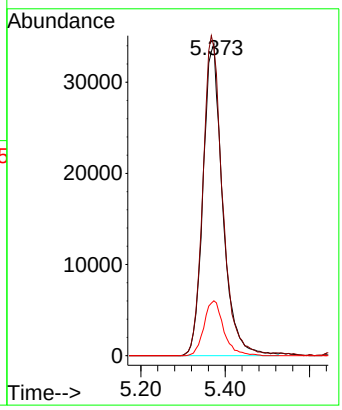




#35
Dibromofluoromethane
Concen: 50.501 ug/l
RT: 5.373 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:113 Resp: 11034

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	17.8	14.2	21.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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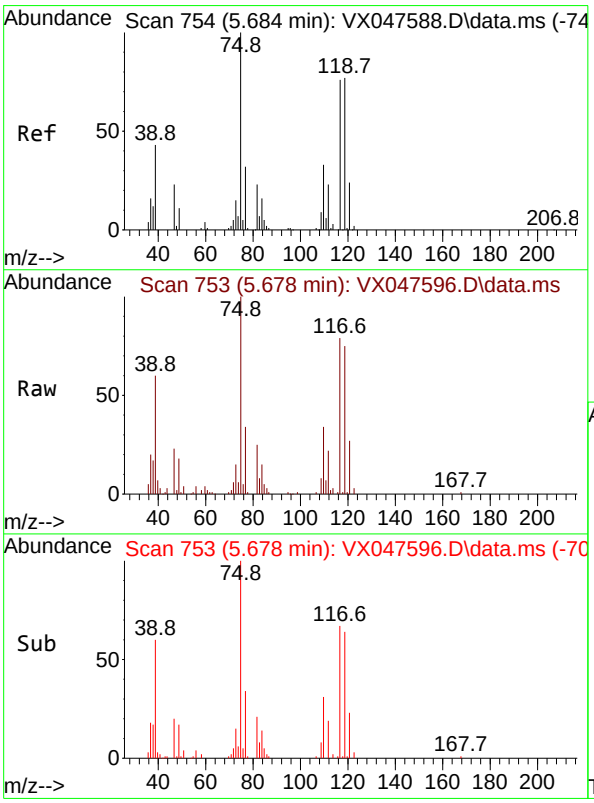
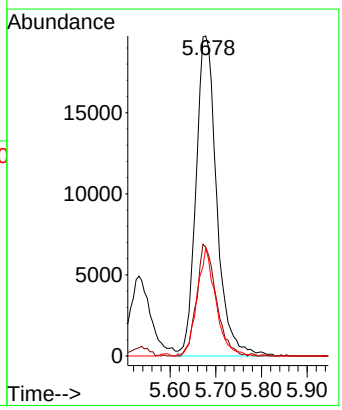
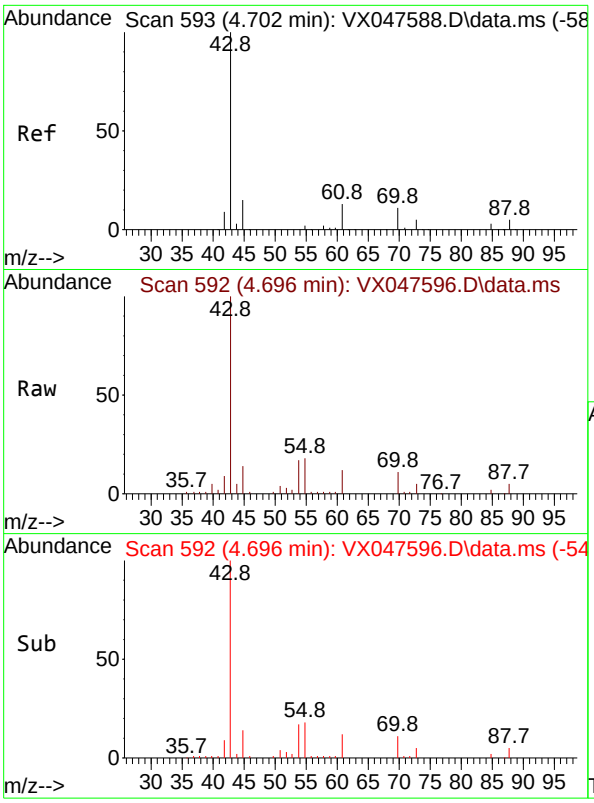


#36
1,1-Dichloropropene
Concen: 19.460 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 62129

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.7	50.1
77	30.5	24.3	36.5

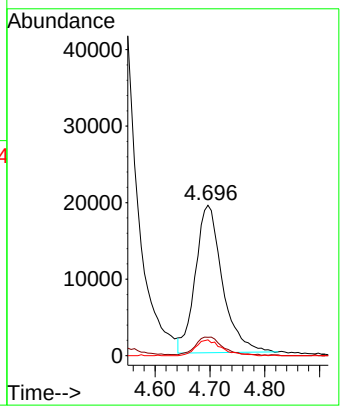




#37
Ethyl Acetate
Concen: 19.255 ug/l
RT: 4.696 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 6582

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.3	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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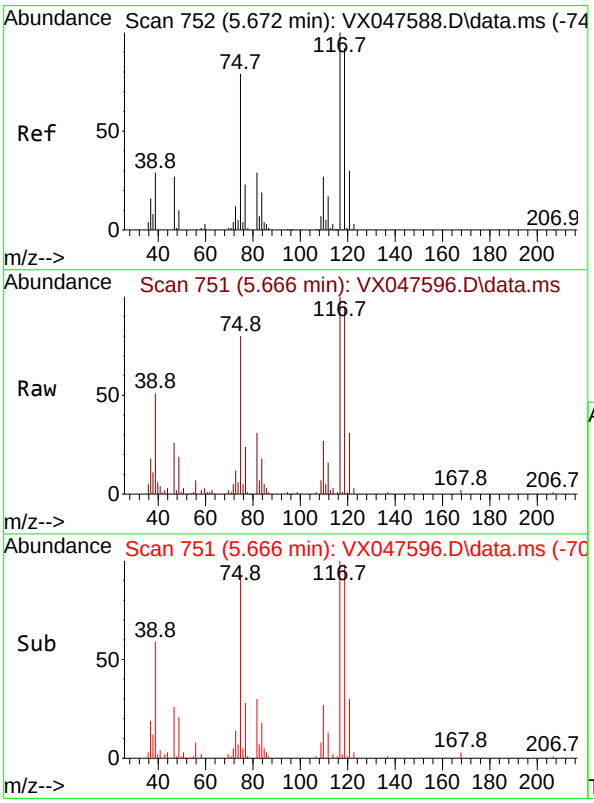
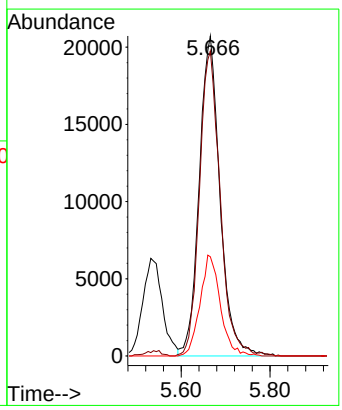
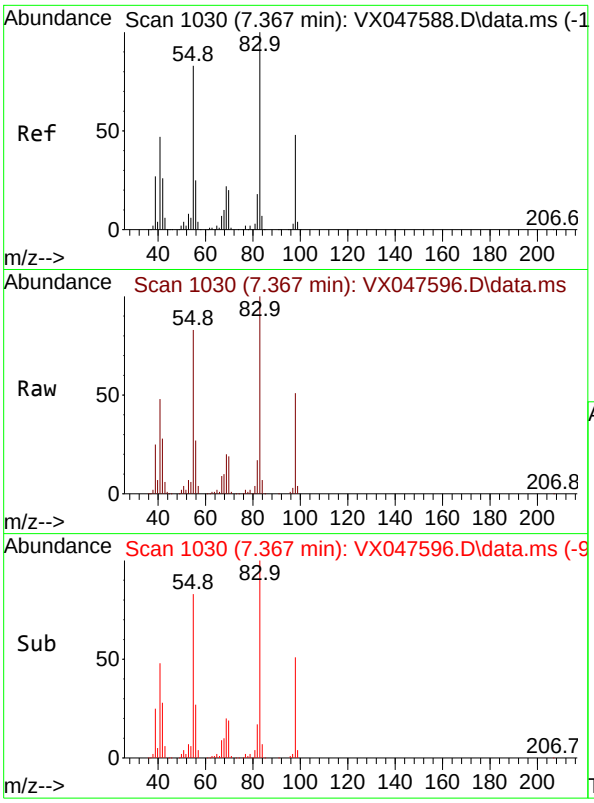


#38
Carbon Tetrachloride
Concen: 19.452 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:117 Resp: 67477

Ion	Ratio	Lower	Upper
117	100		
119	95.0	73.4	110.2
121	31.0	23.8	35.6

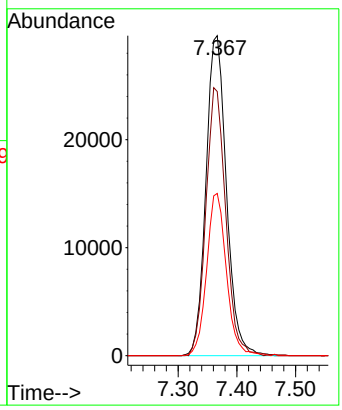




#39
Methylcyclohexane
Concen: 19.792 ug/l
RT: 7.367 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 83 Resp: 7172

Ion	Ratio	Lower	Upper
83	100		
55	82.6	66.4	99.6
98	50.7	38.1	57.1



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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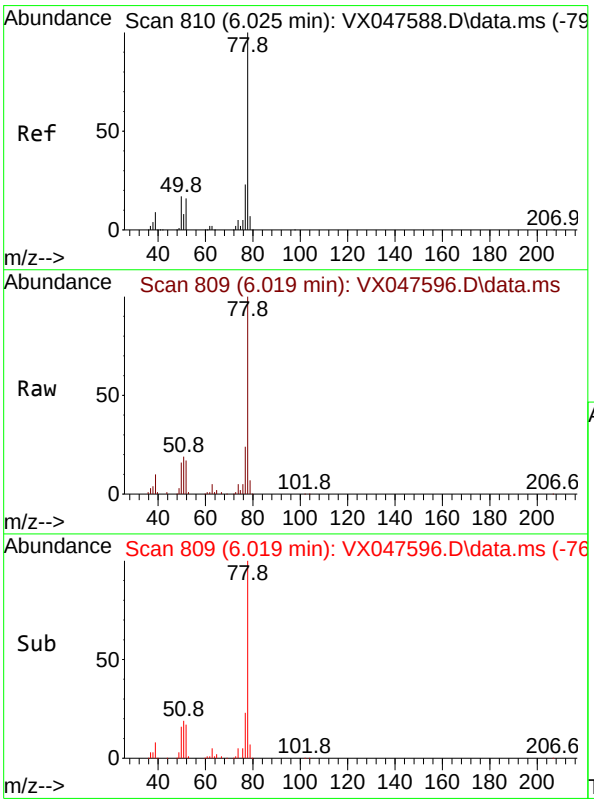
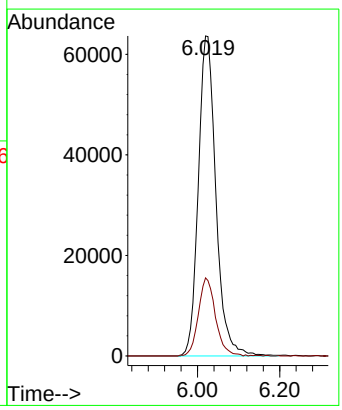
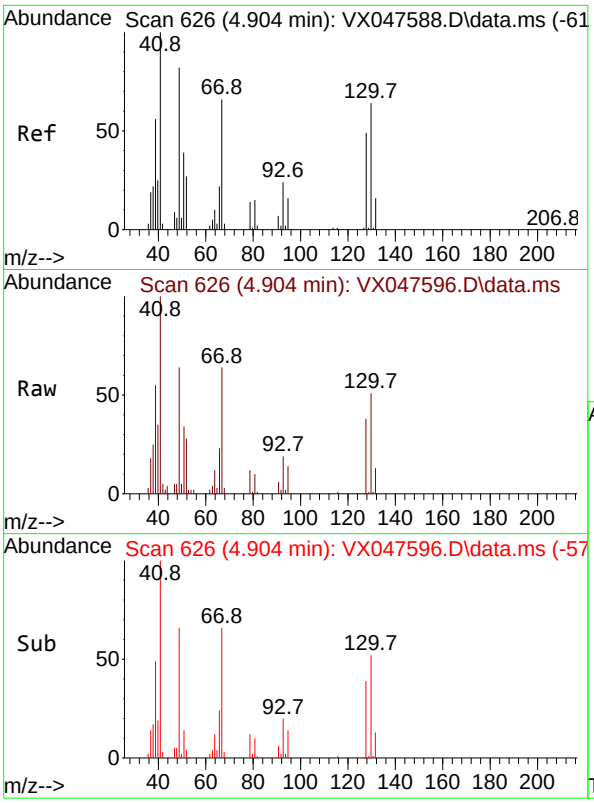


#40
Benzene
Concen: 19.482 ug/l
RT: 6.019 min Scan# 809
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 78 Resp: 188914

Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2

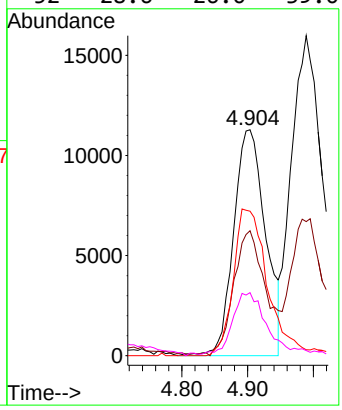




#41
Methacrylonitrile
Concen: 21.517 ug/l
RT: 4.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 41 Resp: 3797

Ion	Ratio	Lower	Upper
41	100		
39	52.6	43.3	64.9
67	69.4	58.6	87.8
52	28.6	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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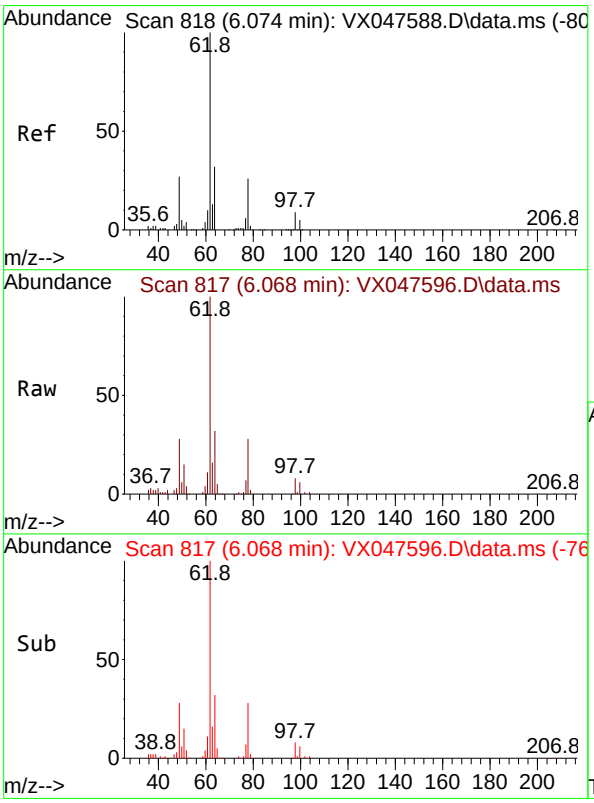
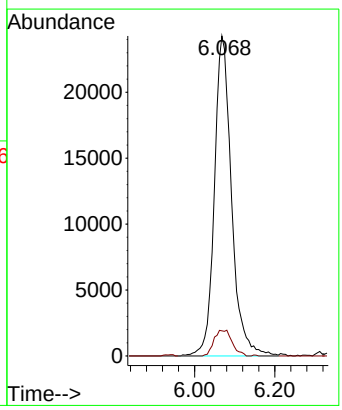
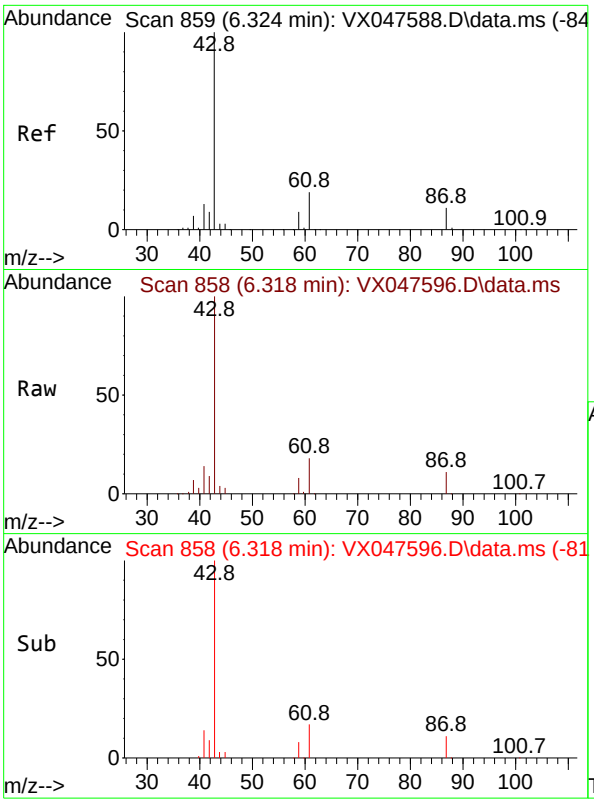


#42
1,2-Dichloroethane
Concen: 19.519 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 62 Resp: 72019

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.0





#43
Isopropyl Acetate
Concen: 20.485 ug/l
RT: 6.318 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 11485

Ion	Ratio	Lower	Upper
43	100		
61	18.4	15.2	22.8
87	12.1	9.6	14.4

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
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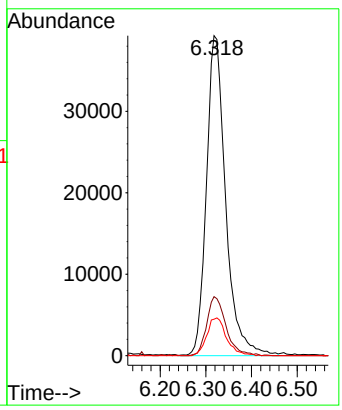
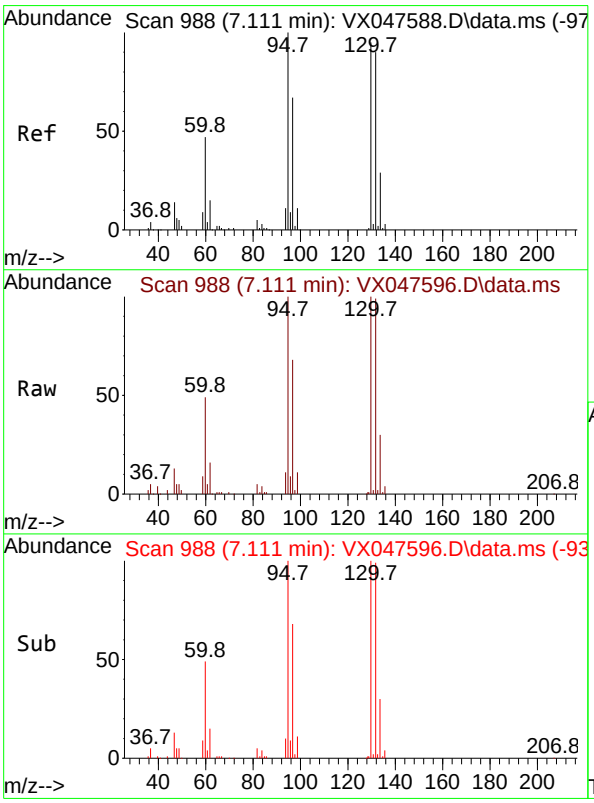
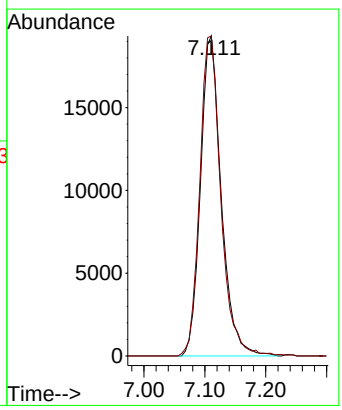


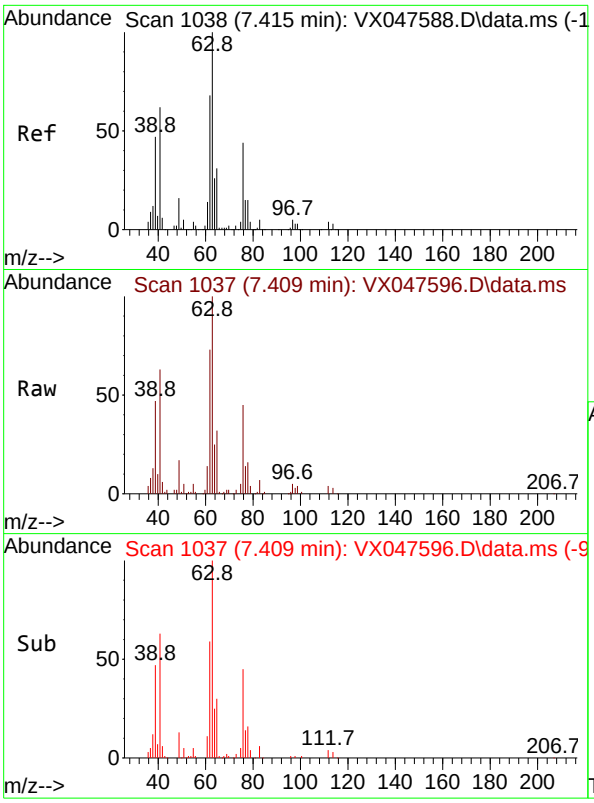


#44
Trichloroethene
Concen: 19.545 ug/l
RT: 7.111 min Scan# 988
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:130 Resp: 45822

Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	210.8

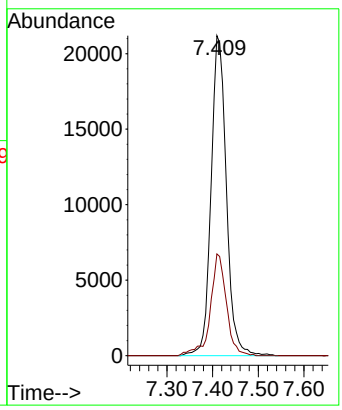




#45
1,2-Dichloropropane
Concen: 19.896 ug/l
RT: 7.409 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 63 Resp: 4940

Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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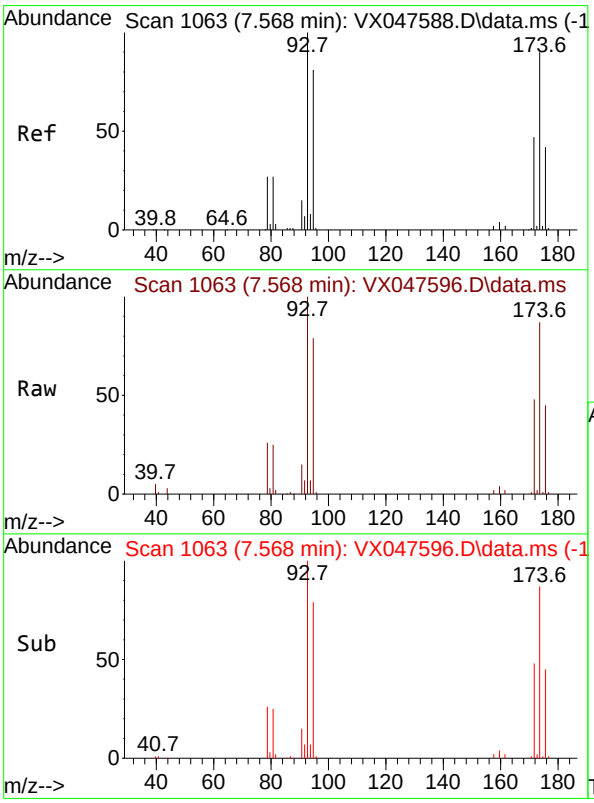
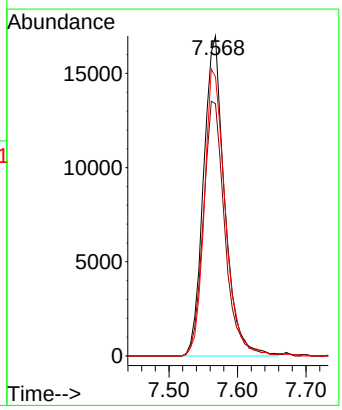
Supervised By :Mahesh Dadoda 09/18/2025

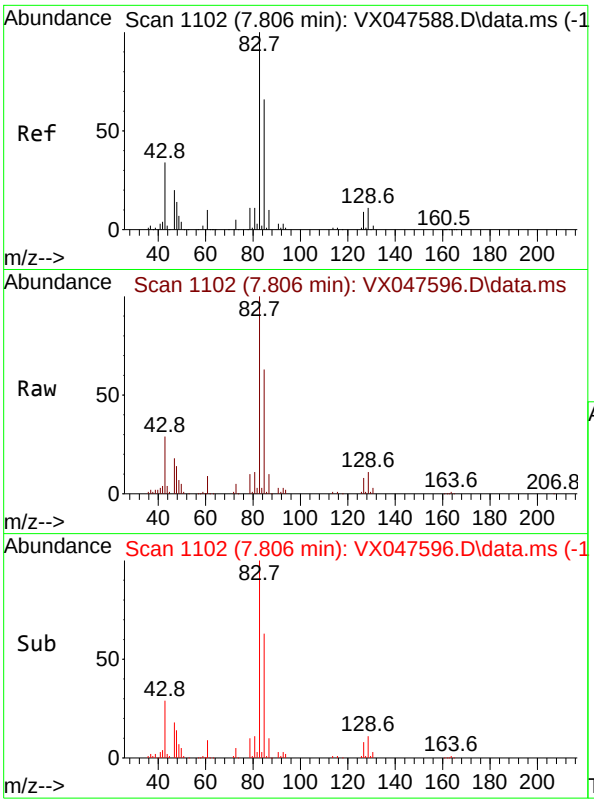


#46
Dibromomethane
Concen: 20.163 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 93 Resp: 36432

Ion	Ratio	Lower	Upper
93	100		
95	81.1	65.0	97.6
174	89.0	71.6	107.4

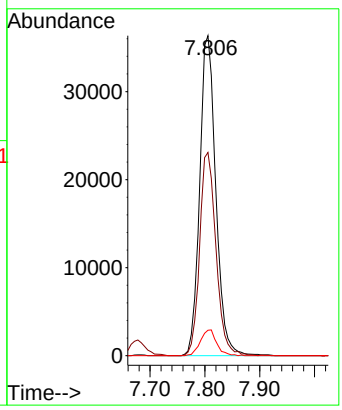




#47
Bromodichloromethane
Concen: 19.929 ug/l
RT: 7.806 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 83 Resp: 7431

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.9	6.9	10.3



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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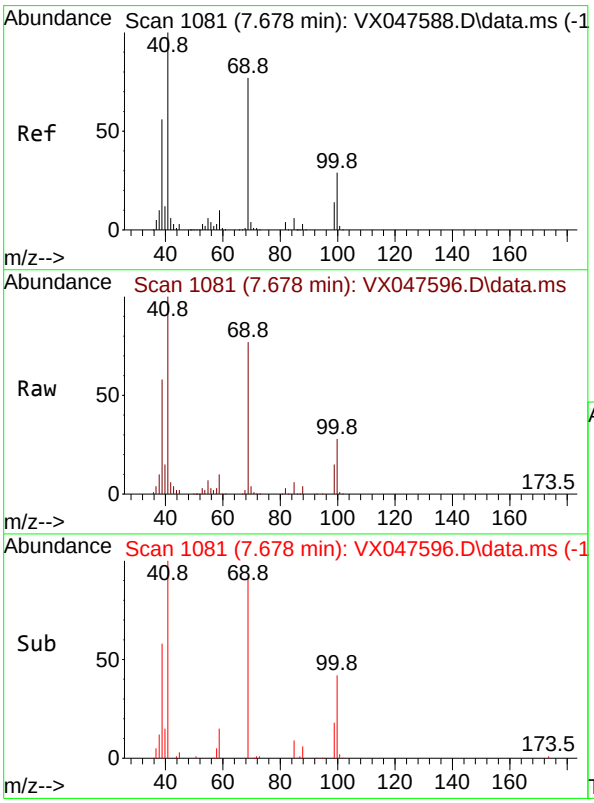
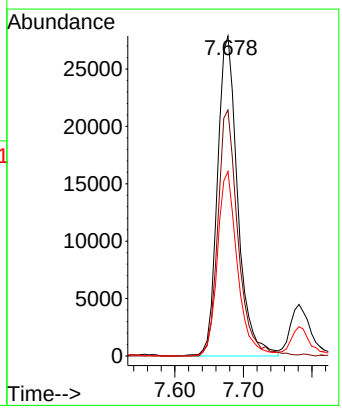
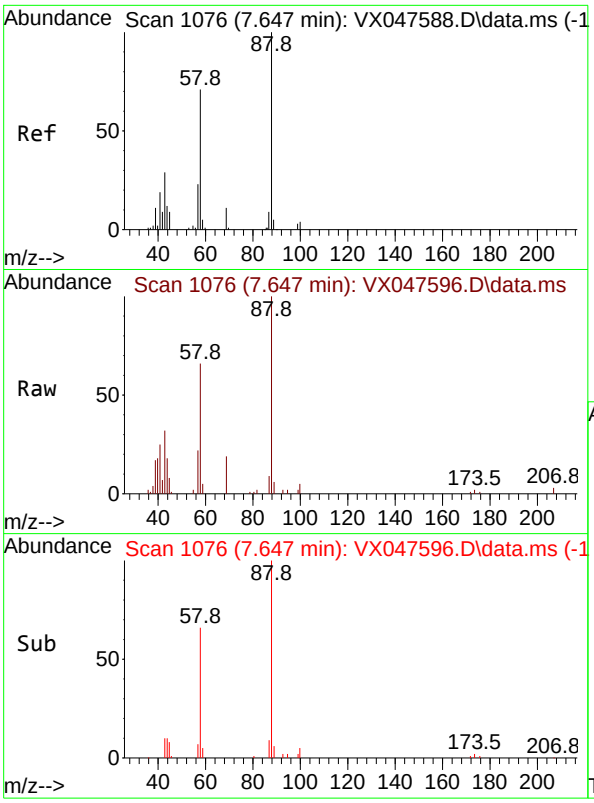


#48
Methyl methacrylate
Concen: 20.453 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 41 Resp: 57119

Ion	Ratio	Lower	Upper
41	100		
69	76.3	61.4	92.2
39	56.8	45.8	68.6

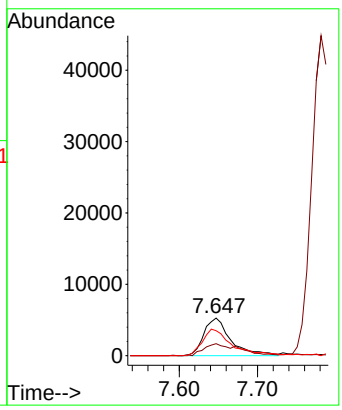




#49
1,4-Dioxane
Concen: 445.313 ug/l
RT: 7.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 88 Resp: 1256

Ion	Ratio	Lower	Upper
88	100		
43	42.4	30.2	45.2
58	77.4	59.5	89.3



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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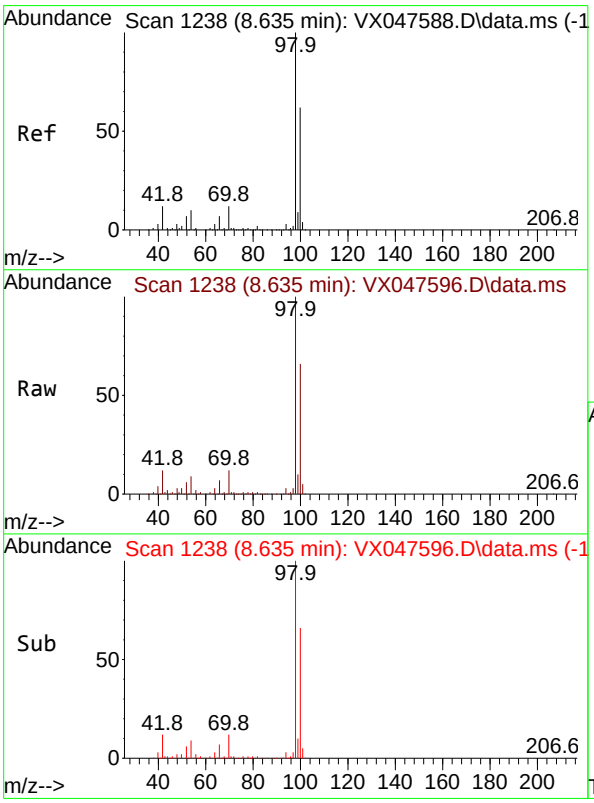
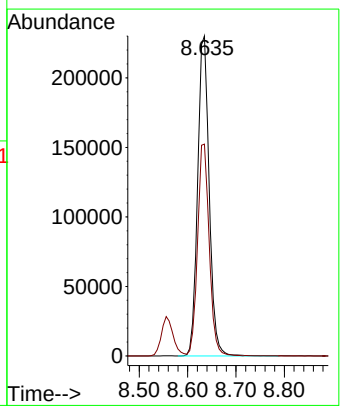
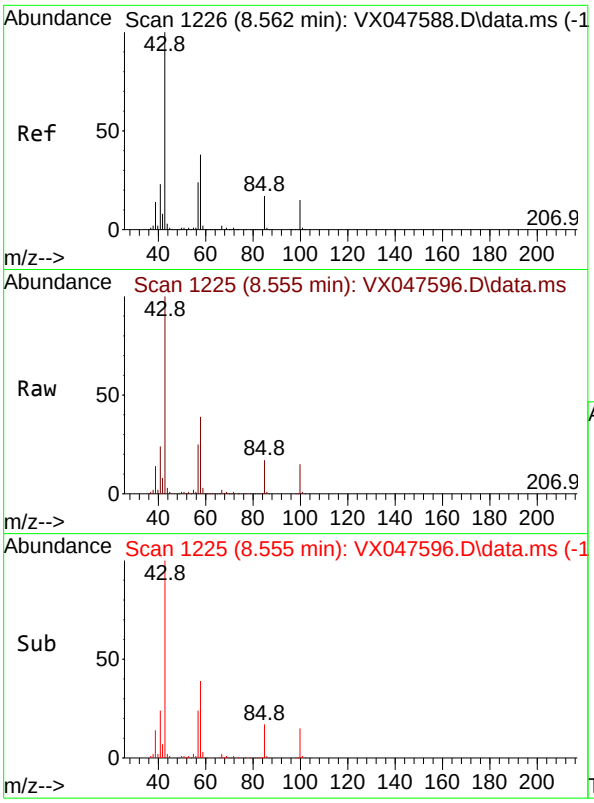


#50
Toluene-d8
Concen: 50.441 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 98 Resp: 381352

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.0	79.4

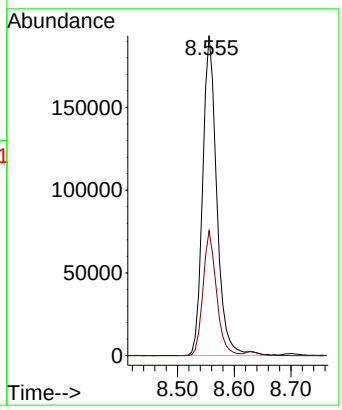




#51
4-Methyl-2-Pentanone
Concen: 107.626 ug/l
RT: 8.555 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 33455

Ion	Ratio	Lower	Upper
43	100		
58	37.2	30.3	45.5



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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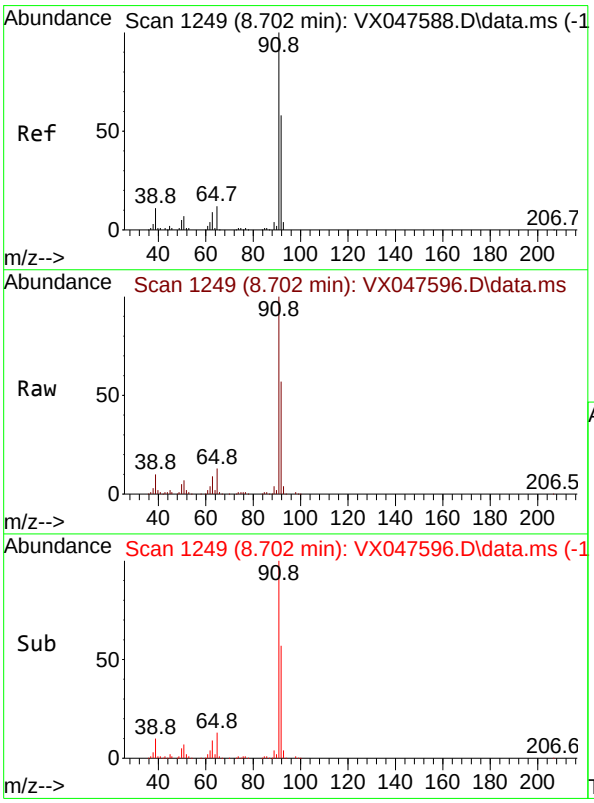
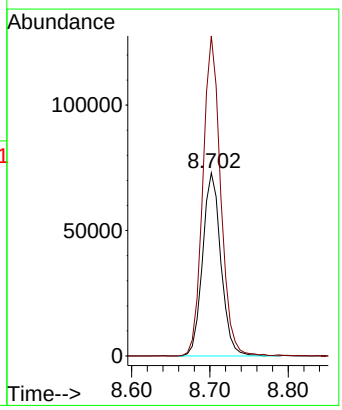
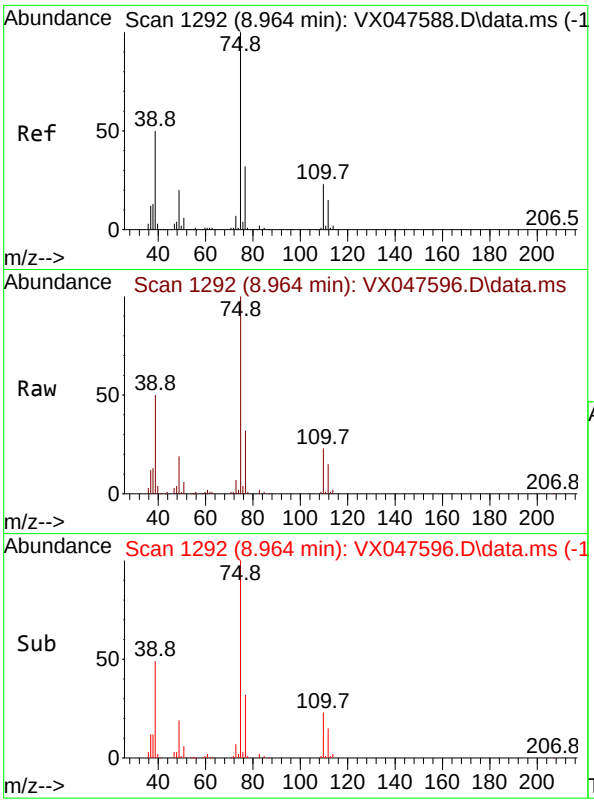


#52
Toluene
Concen: 19.768 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 92 Resp: 118098

Ion	Ratio	Lower	Upper
92	100		
91	170.4	137.1	205.7

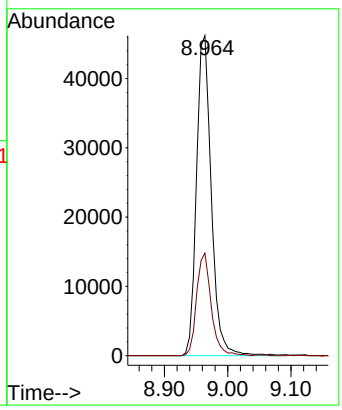




#53
t-1,3-Dichloropropene
Concen: 19.819 ug/l
RT: 8.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 7537

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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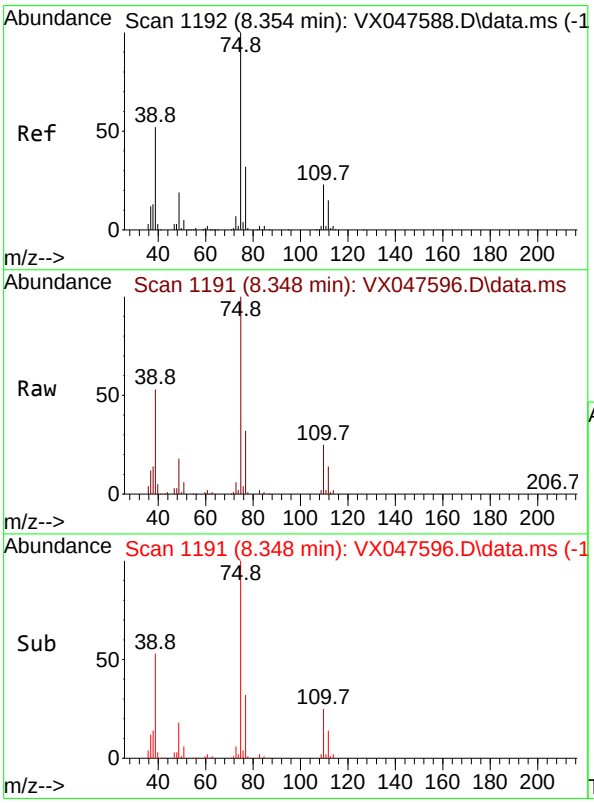
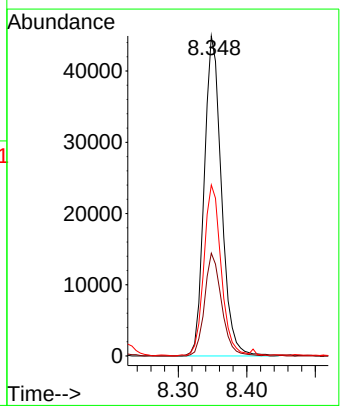
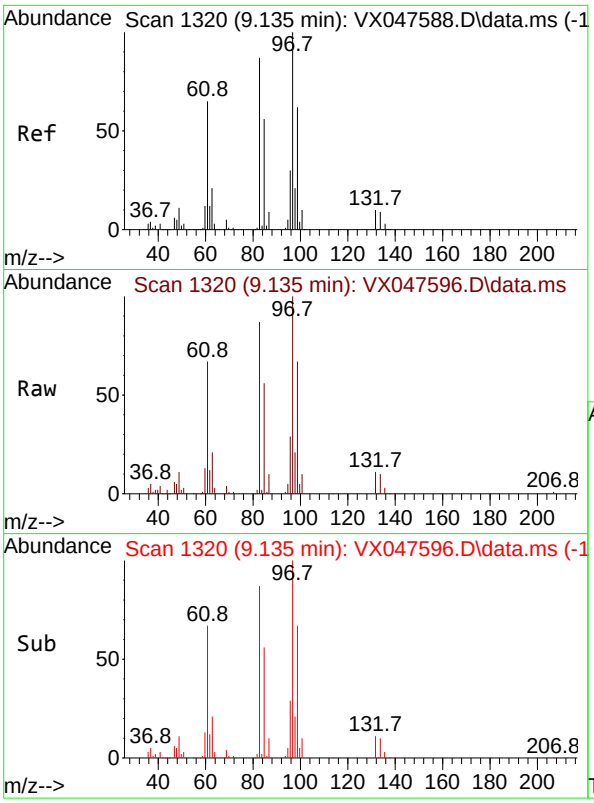


#54
cis-1,3-Dichloropropene
Concen: 19.323 ug/l
RT: 8.348 min Scan# 1191
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 78552

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.8	38.6
39	51.7	41.4	62.2

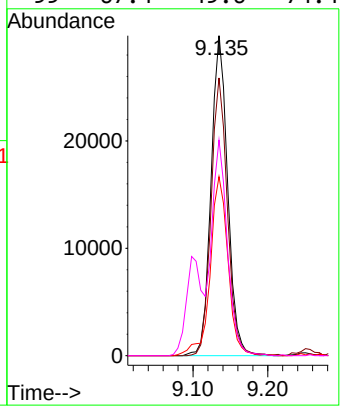




#55
1,1,2-Trichloroethane
Concen: 19.951 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 97 Resp: 4596

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.6	104.4
85	55.9	45.0	67.6
99	67.4	49.6	74.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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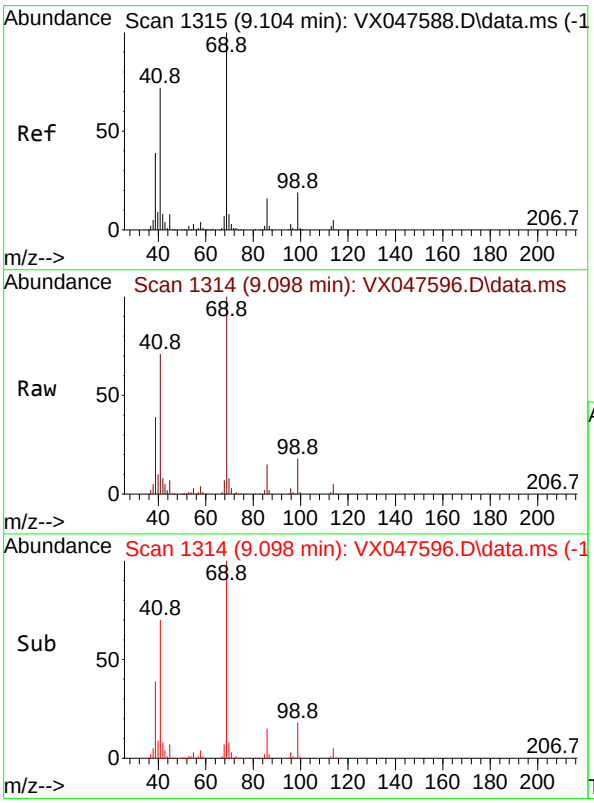
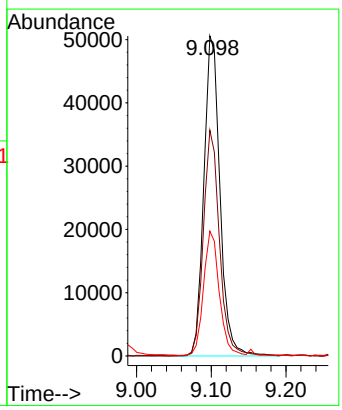
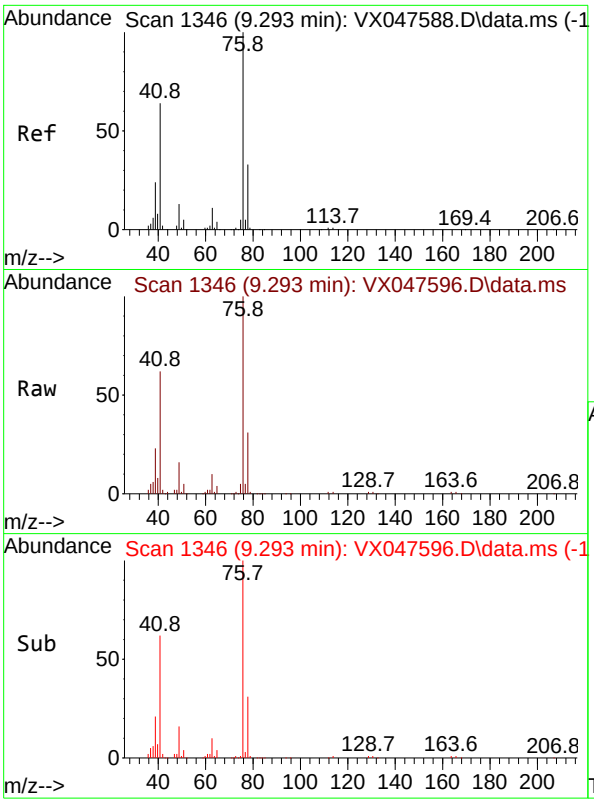


#56
Ethyl methacrylate
Concen: 20.963 ug/l
RT: 9.098 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 69 Resp: 75840

Ion	Ratio	Lower	Upper
69	100		
41	70.6	58.6	87.8
39	37.7	31.5	47.3

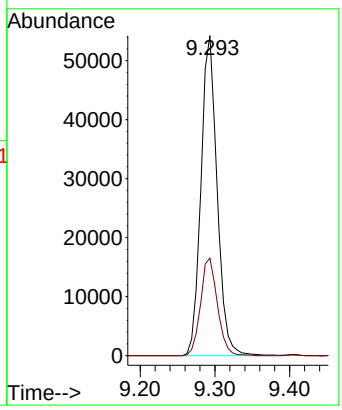




#57
1,3-Dichloropropane
Concen: 20.586 ug/l
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 76 Resp: 8146

Ion	Ratio	Lower	Upper
76	100		
78	31.7	26.2	39.4



Instrument :
MSVOA_X
ClientSampleId :
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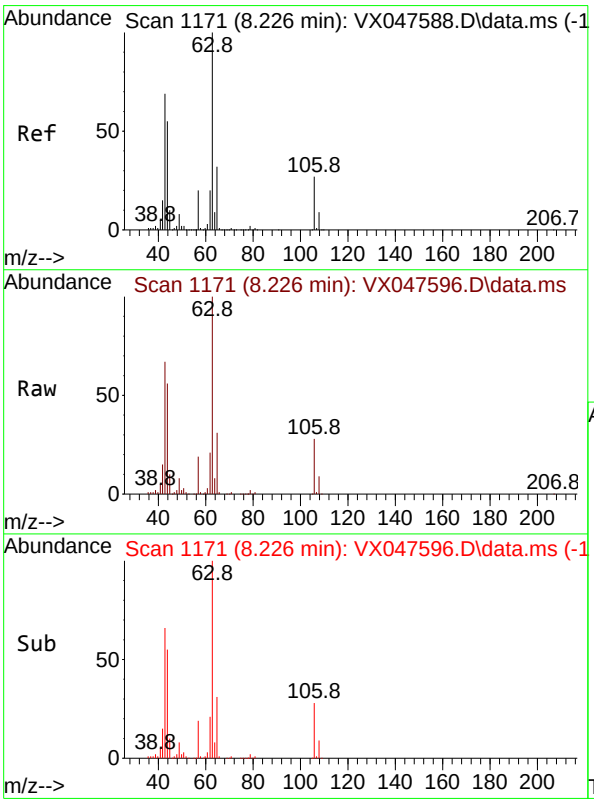
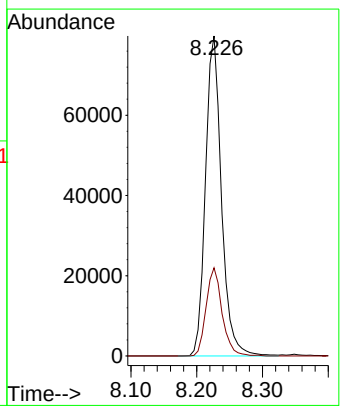
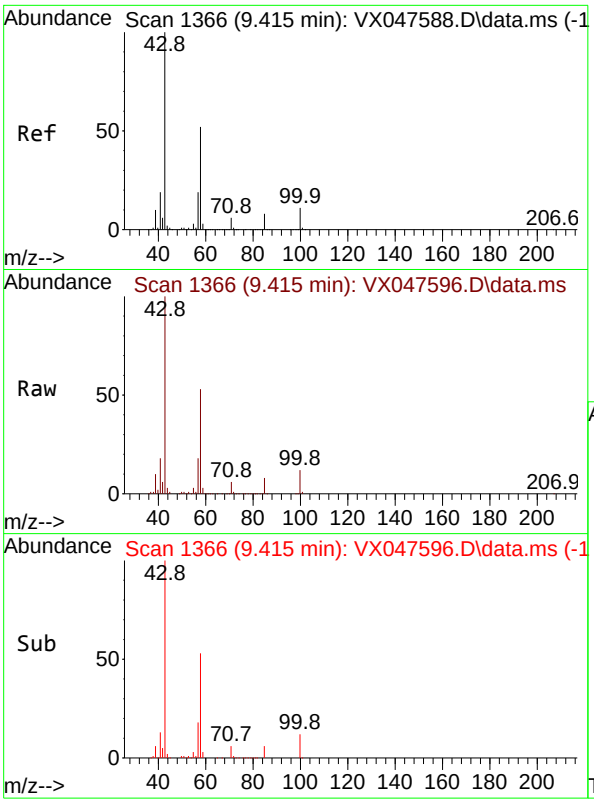


#58
2-Chloroethyl Vinyl ether
Concen: 85.465 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 63 Resp: 134952

Ion	Ratio	Lower	Upper
63	100		
106	27.5	21.9	32.9

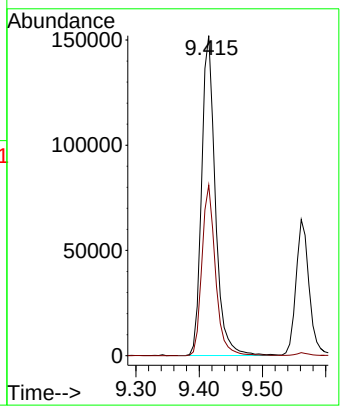




#59
2-Hexanone
Concen: 102.998 ug/l
RT: 9.415 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 22994

Ion	Ratio	Lower	Upper
43	100		
58	52.8	26.1	78.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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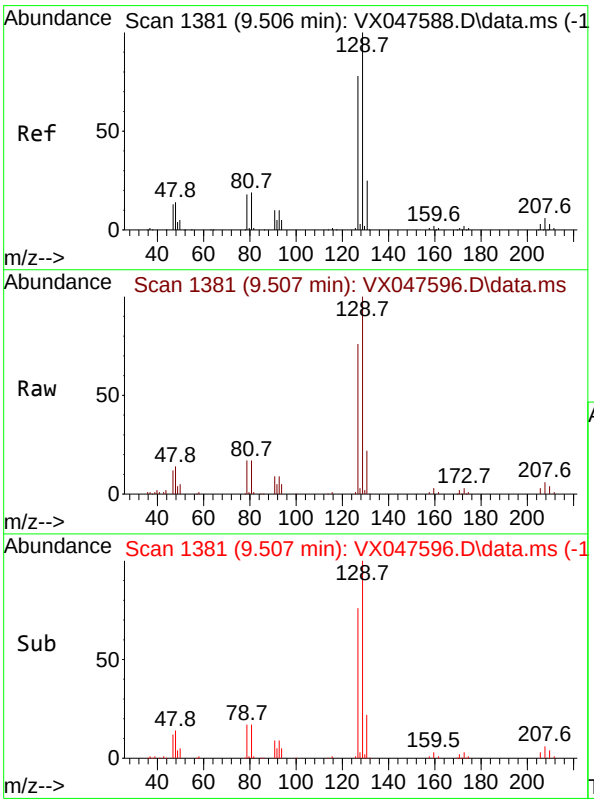
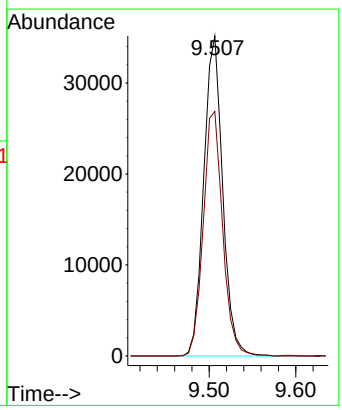
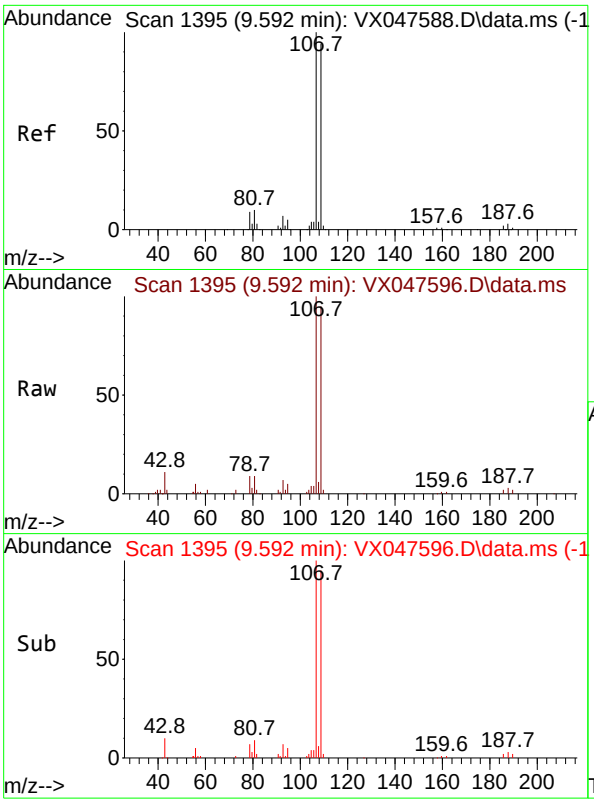


#60
Dibromochloromethane
Concen: 20.072 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:129 Resp: 53277

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.4	115.2

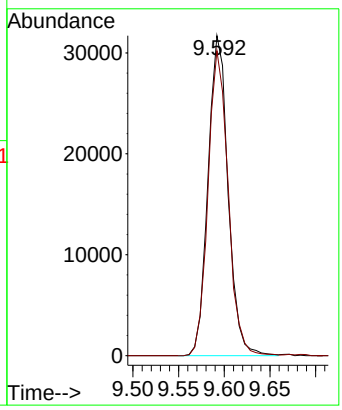




#61
1,2-Dibromoethane
Concen: 20.620 ug/l
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:107 Resp: 4838

Ion	Ratio	Lower	Upper
107	100		
109	95.4	75.3	112.9



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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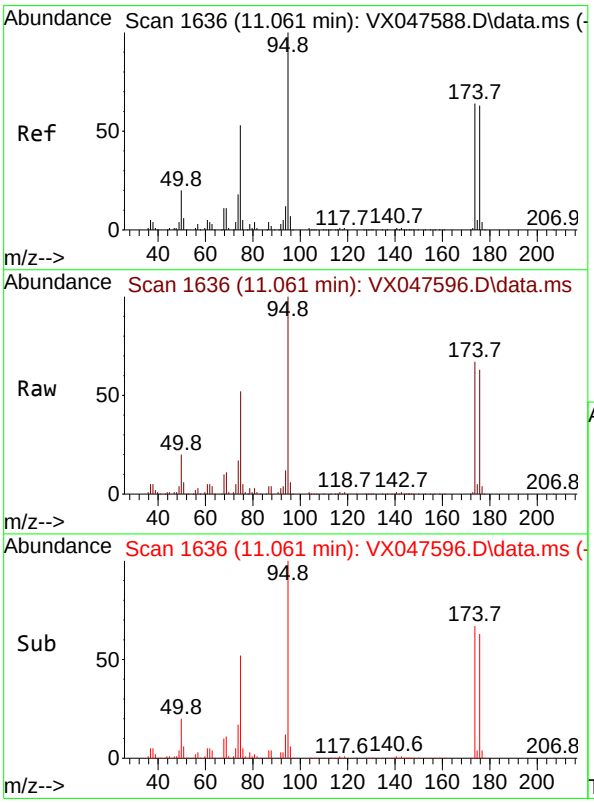
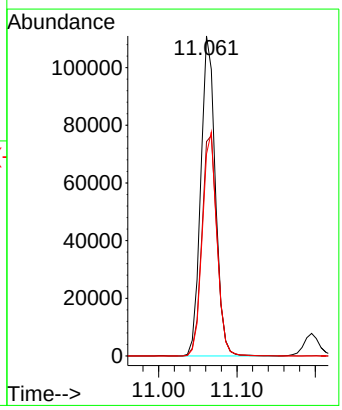
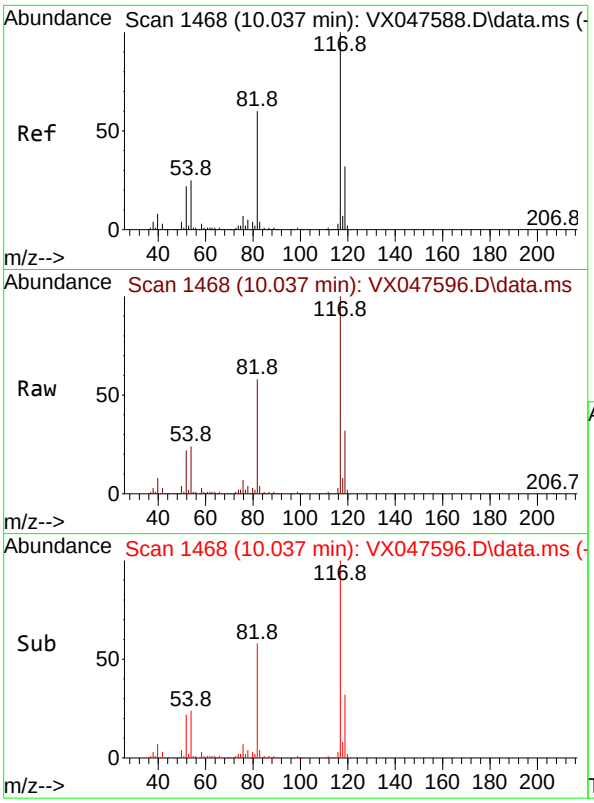


#62
4-Bromofluorobenzene
Concen: 49.948 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 95 Resp: 143314

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.6
176	69.7	0.0	138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:117 Resp: 29059

Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.8	71.6
119	31.8	25.2	37.8

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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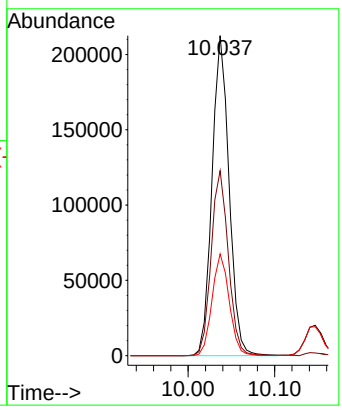
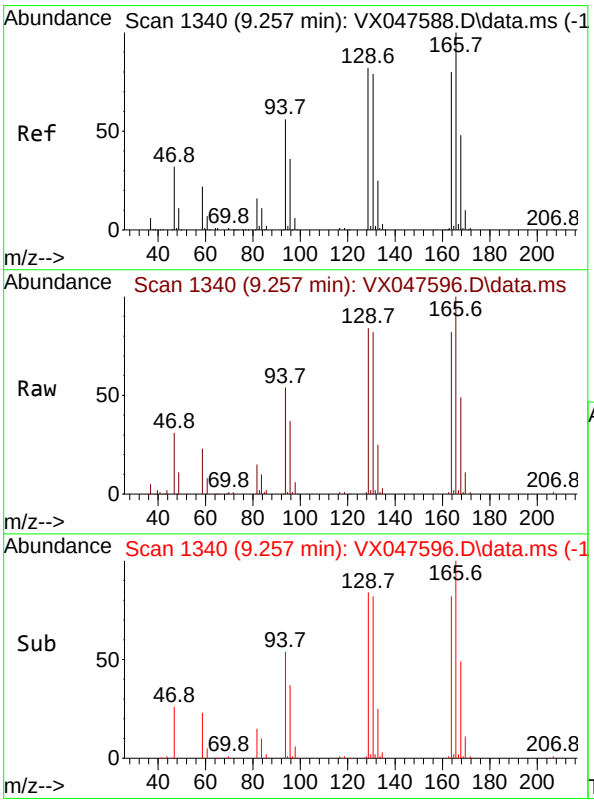
Supervised By :Mahesh Dadoda 09/18/2025

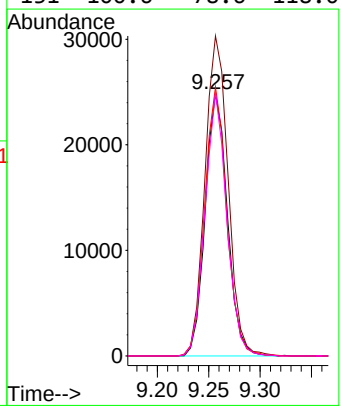


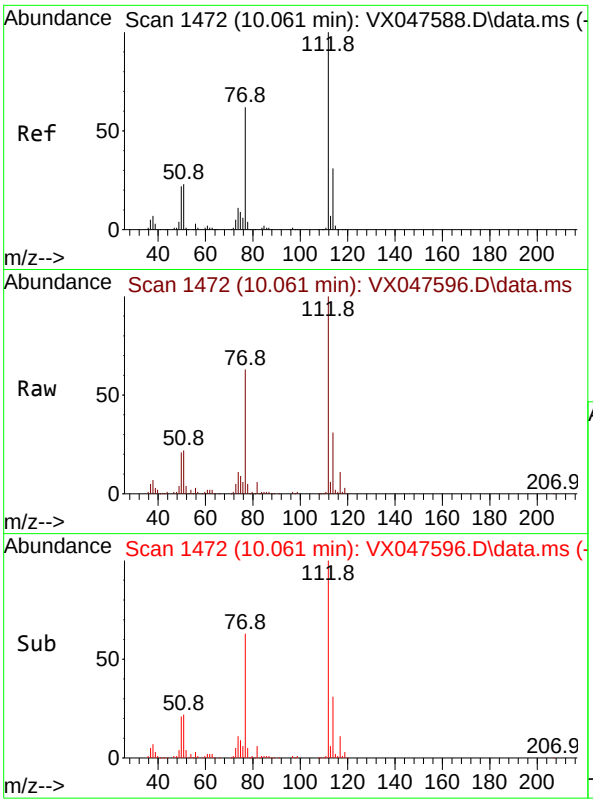


#64
Tetrachloroethene
Concen: 19.676 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:164 Resp: 37273

Ion	Ratio	Lower	Upper
164	100		
166	122.3	100.2	150.2
129	102.7	81.8	122.6
131	100.6	78.6	118.0





#65
Chlorobenzene
Concen: 19.586 ug/l
RT: 10.061 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:112 Resp: 12930

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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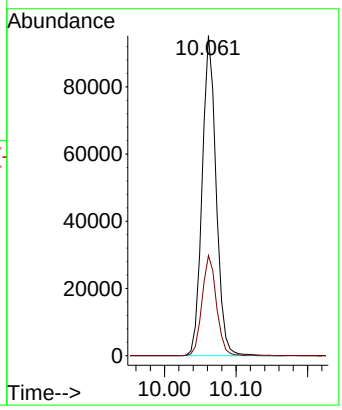
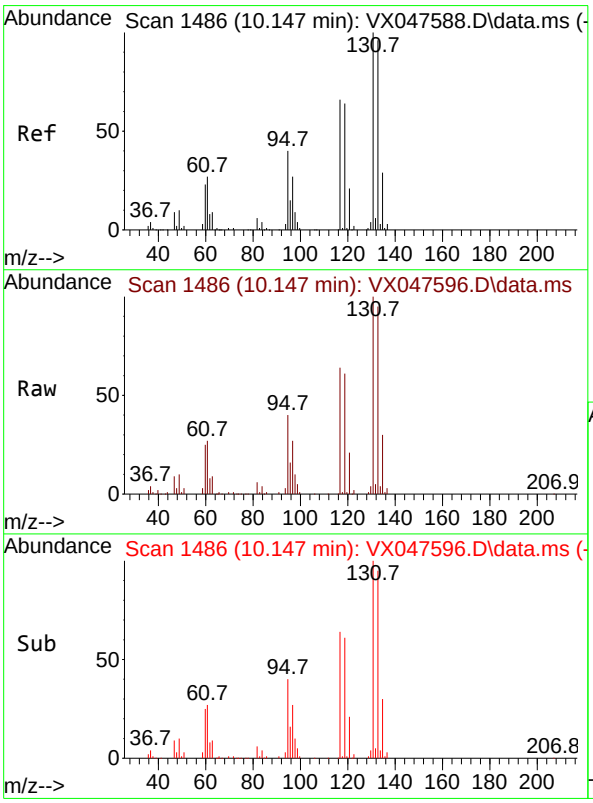
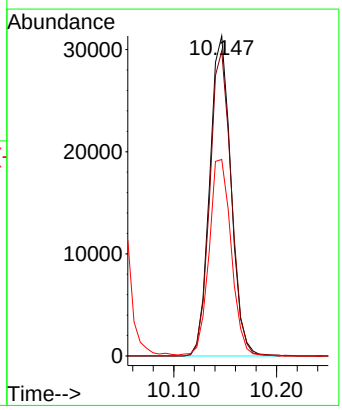


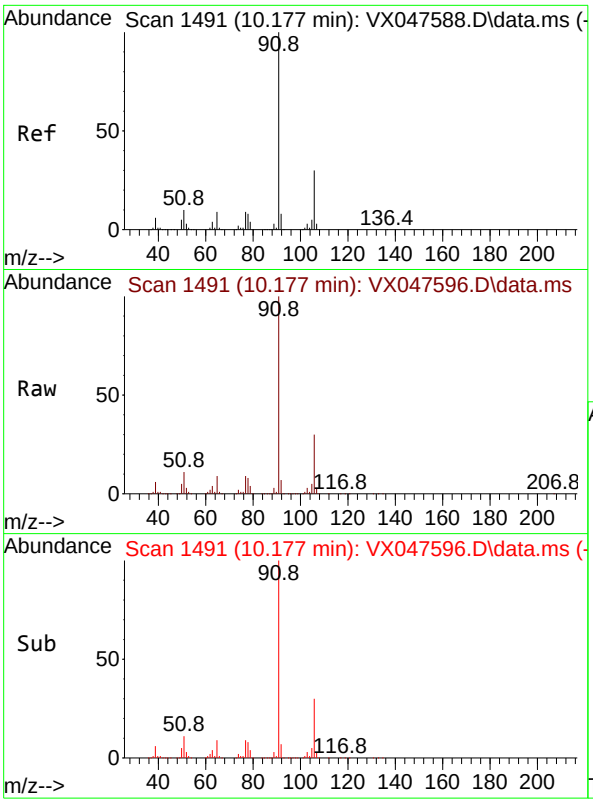


#66
1,1,1,2-Tetrachloroethane
Concen: 19.657 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:131 Resp: 44780

Ion	Ratio	Lower	Upper
131	100		
133	96.5	47.3	142.0
119	64.4	32.0	96.0

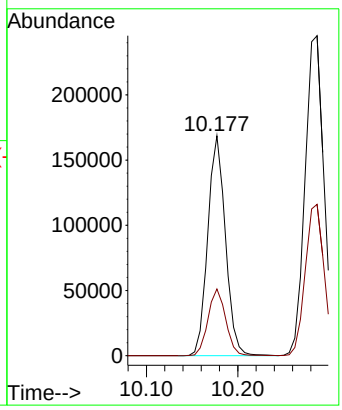




#67
Ethyl Benzene
Concen: 19.830 ug/l
RT: 10.177 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 91 Resp: 22588

Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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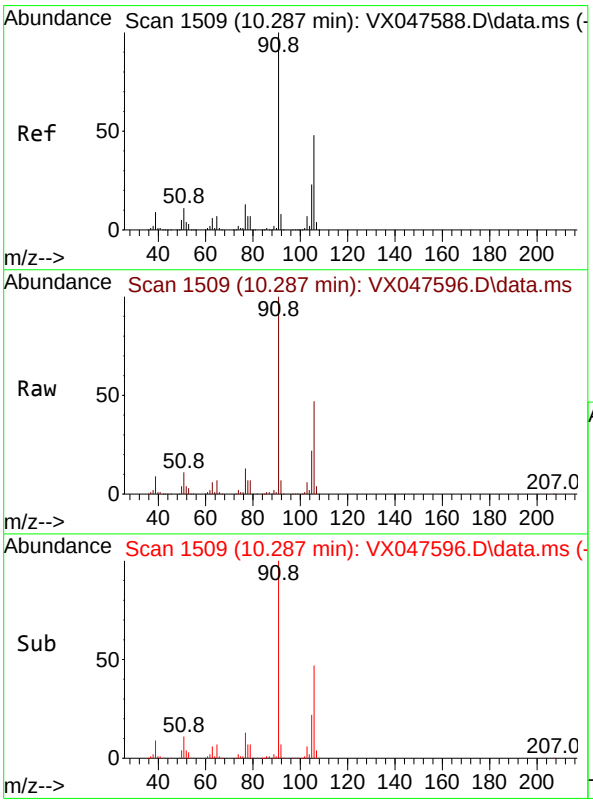
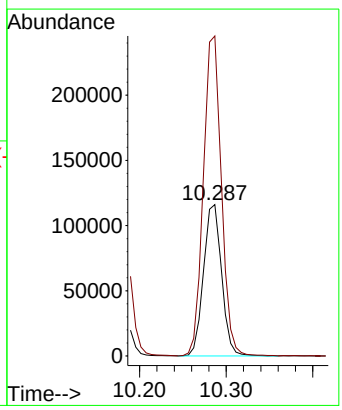
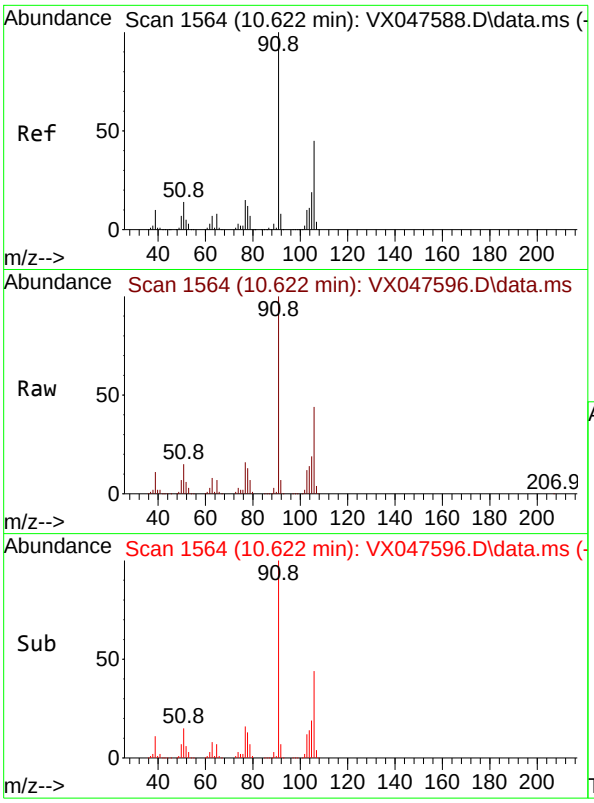


#68
m/p-Xylenes
Concen: 39.705 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:106 Resp: 168342

Ion	Ratio	Lower	Upper
106	100		
91	211.1	167.8	251.8

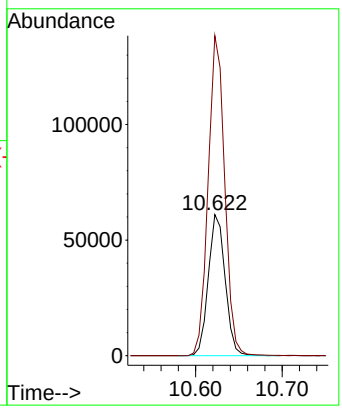




#69
o-Xylene
Concen: 20.107 ug/l
RT: 10.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:106 Resp: 8245

Ion	Ratio	Lower	Upper
106	100		
91	223.4	111.1	333.4



Instrument :
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ClientSampleId :
VX0916WBSD01

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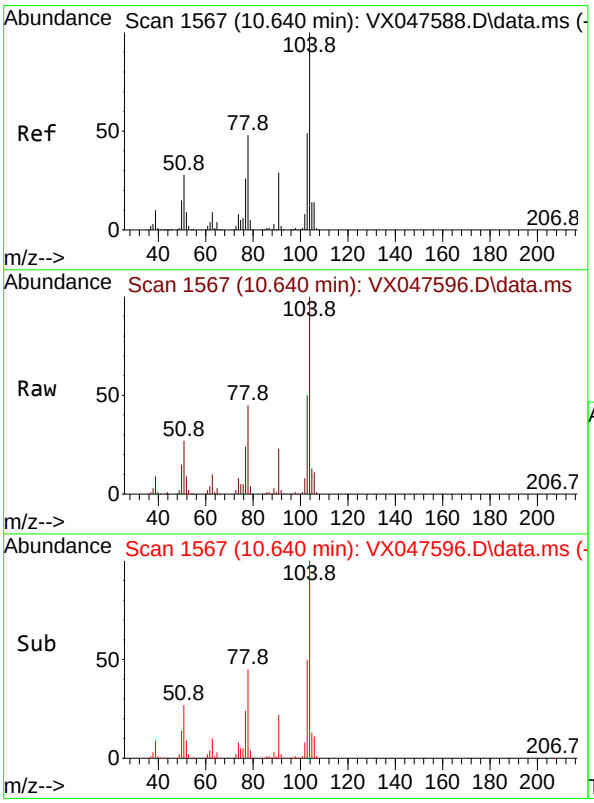
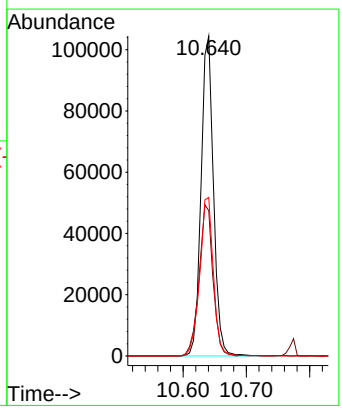
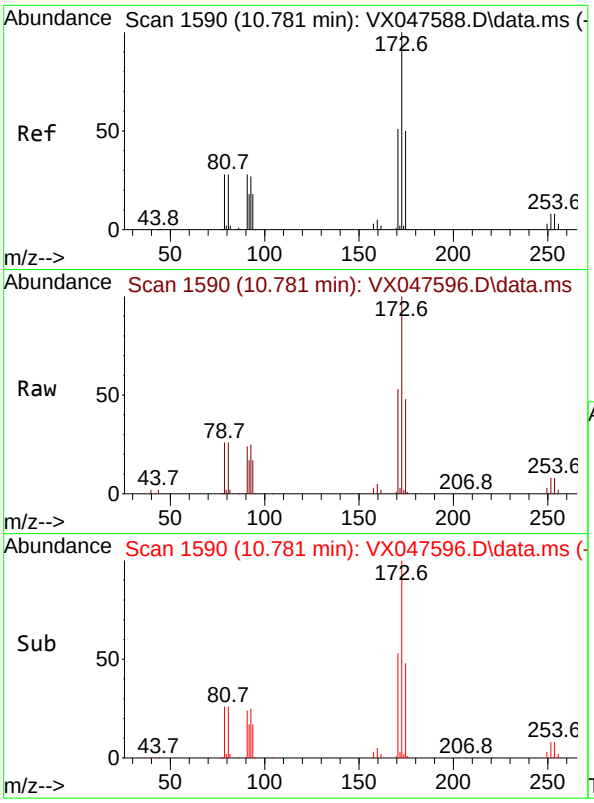


#70
Styrene
Concen: 19.918 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:104 Resp: 143120

Ion	Ratio	Lower	Upper
104	100		
78	52.8	43.1	64.7
103	54.4	43.1	64.7

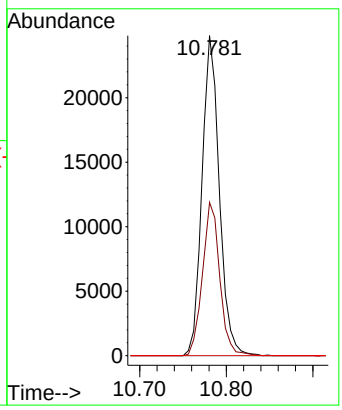




#71
Bromoform
Concen: 20.211 ug/l
RT: 10.781 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:173 Resp: 3437

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.9	74.6
254	0.0	0.1	0.1



Instrument :
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ClientSampleId :
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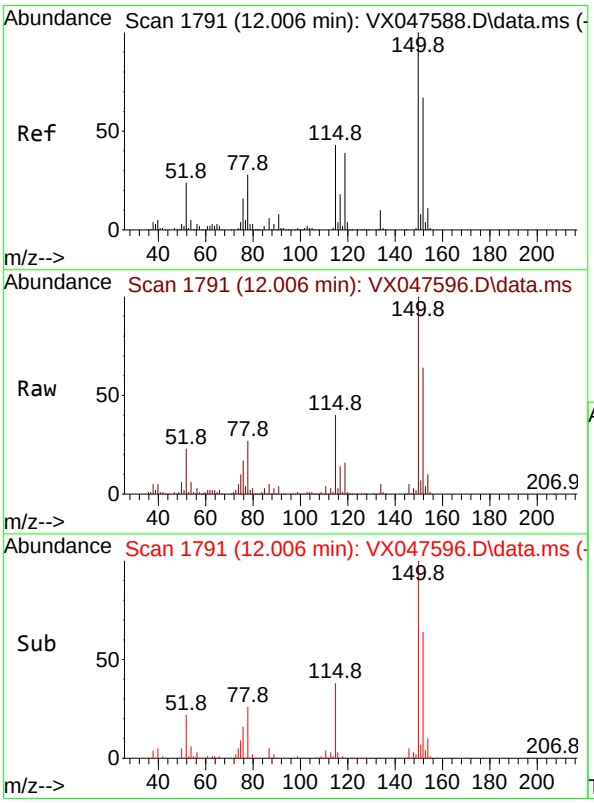
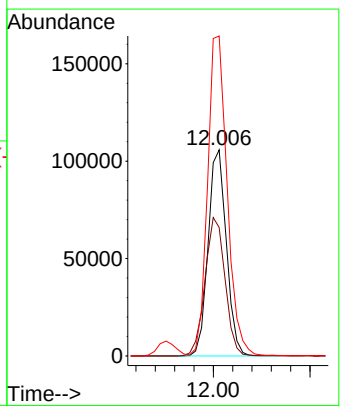
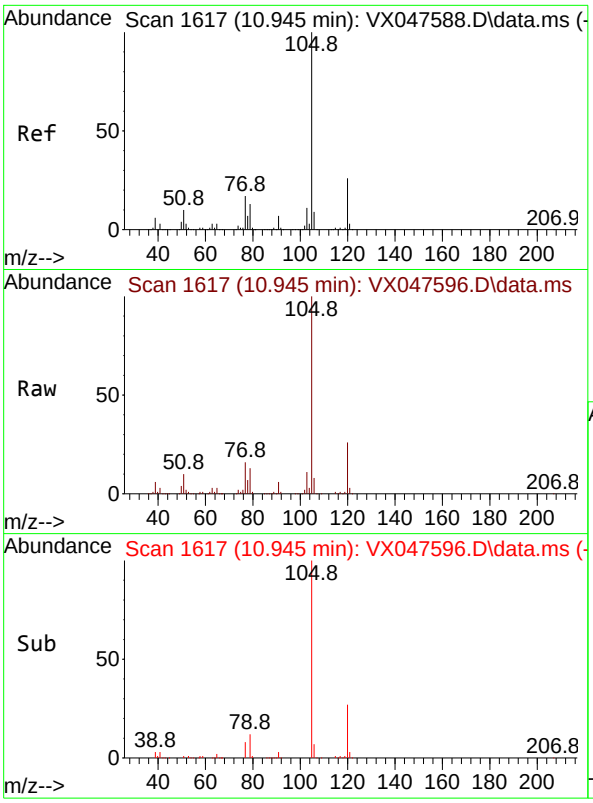


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:152 Resp: 138945

Ion	Ratio	Lower	Upper
152	100		
115	73.8	44.9	134.5
150	166.8	0.0	352.0

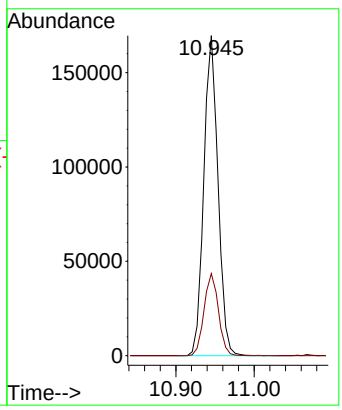




#73
Isopropylbenzene
Concen: 20.106 ug/l
RT: 10.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:105 Resp: 21238

Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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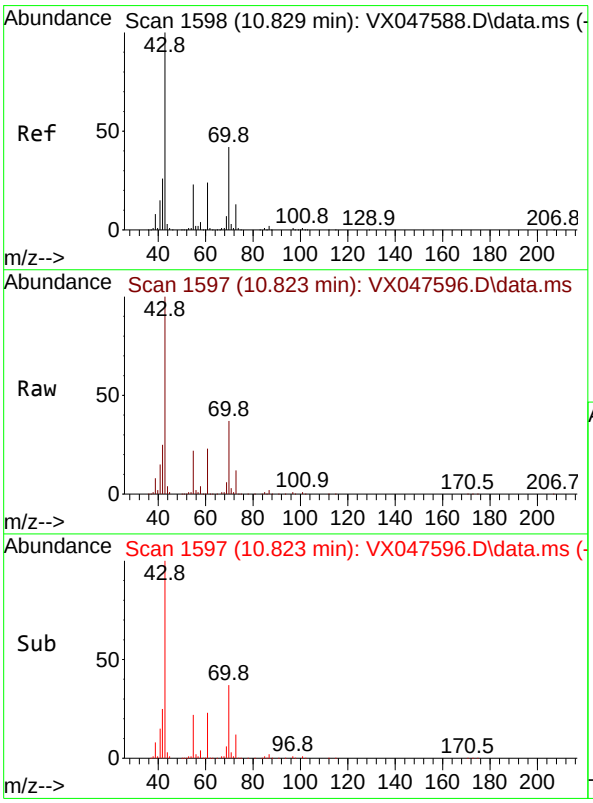
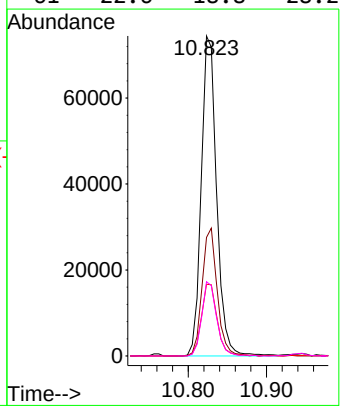
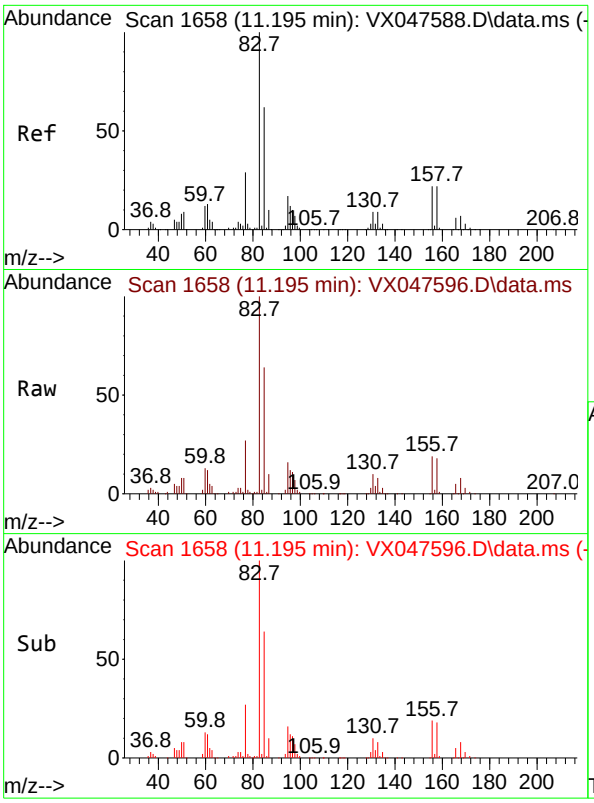


#74
N-amyl acetate
Concen: 21.037 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 43 Resp: 101337

Ion	Ratio	Lower	Upper
43	100		
70	39.1	32.0	48.0
55	23.0	18.9	28.3
61	22.6	18.8	28.2

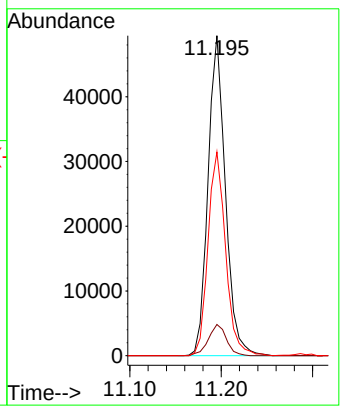




#75
1,1,2,2-Tetrachloroethane
Concen: 20.387 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 83 Resp: 6515

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	64.5	31.6	95.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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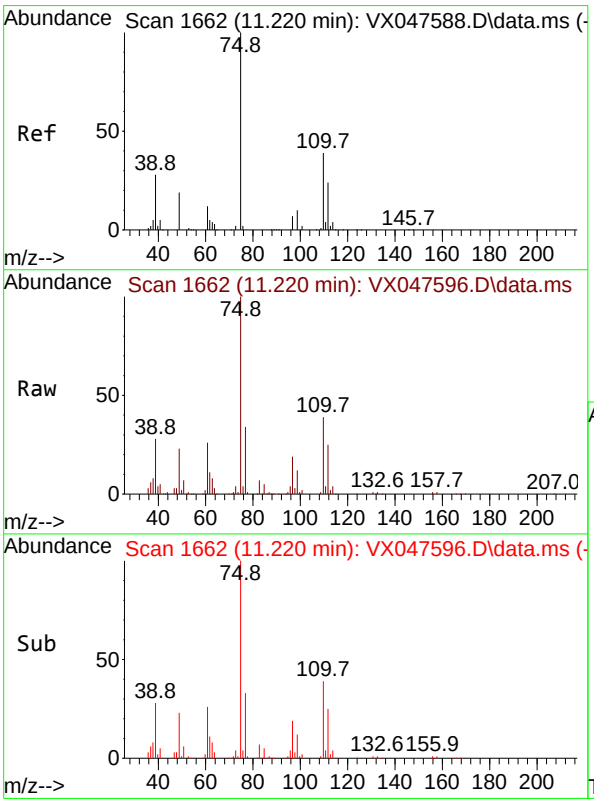
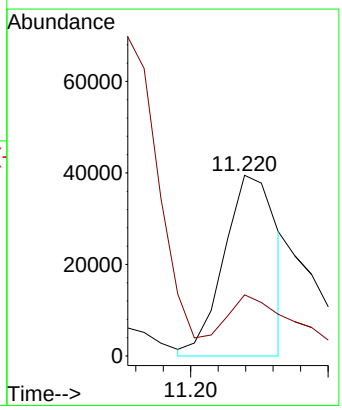
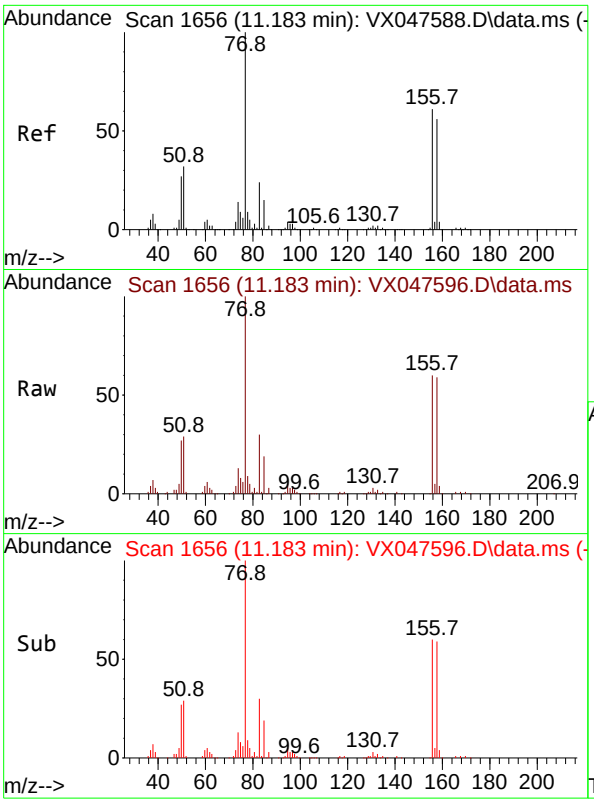


#76
1,2,3-Trichloropropane
Concen: 18.579 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 52267

Ion	Ratio	Lower	Upper
75	100		
77	43.3	18.8	56.4

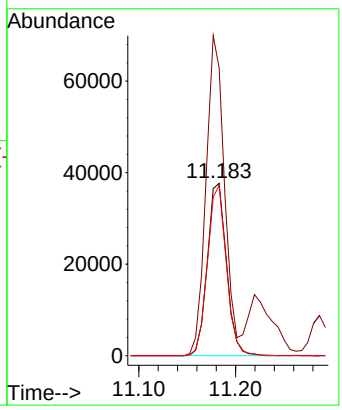




#77
Bromobenzene
Concen: 19.973 ug/l
RT: 11.183 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:156 Resp: 5196

Ion	Ratio	Lower	Upper
156	100		
77	177.5	89.7	269.1
158	97.1	47.9	143.6



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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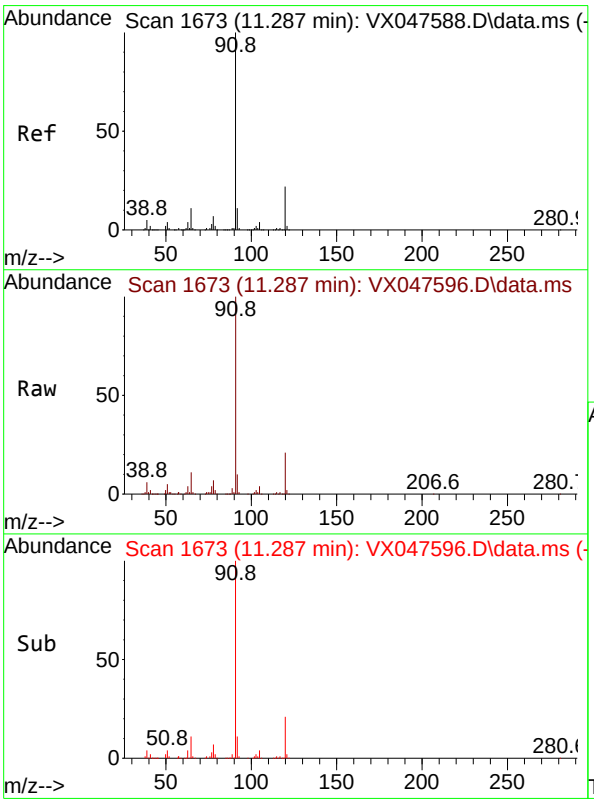
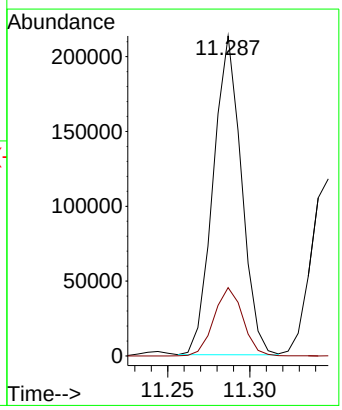
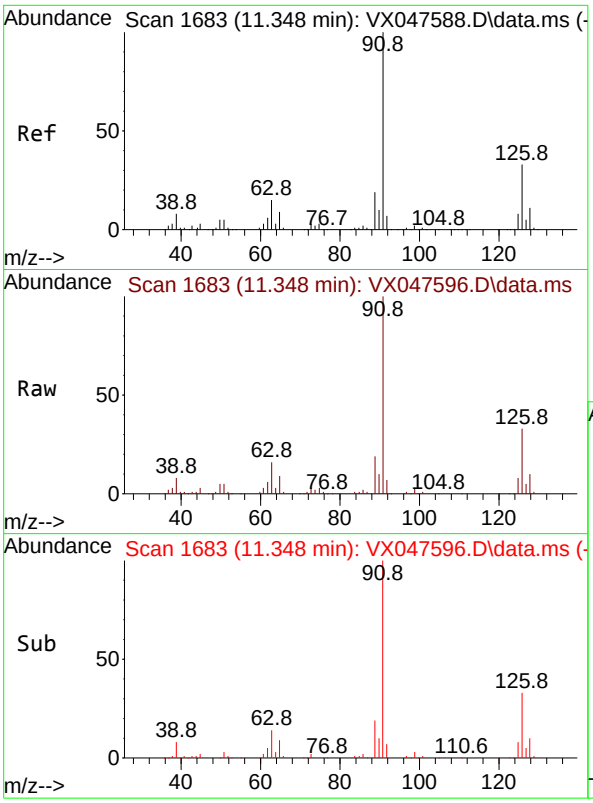


#78
n-propylbenzene
Concen: 20.400 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 91 Resp: 254737

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.1





#79
2-Chlorotoluene
Concen: 20.317 ug/l
RT: 11.348 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 91 Resp: 15538

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.1	48.3

Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
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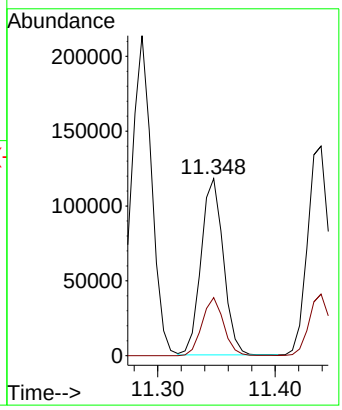
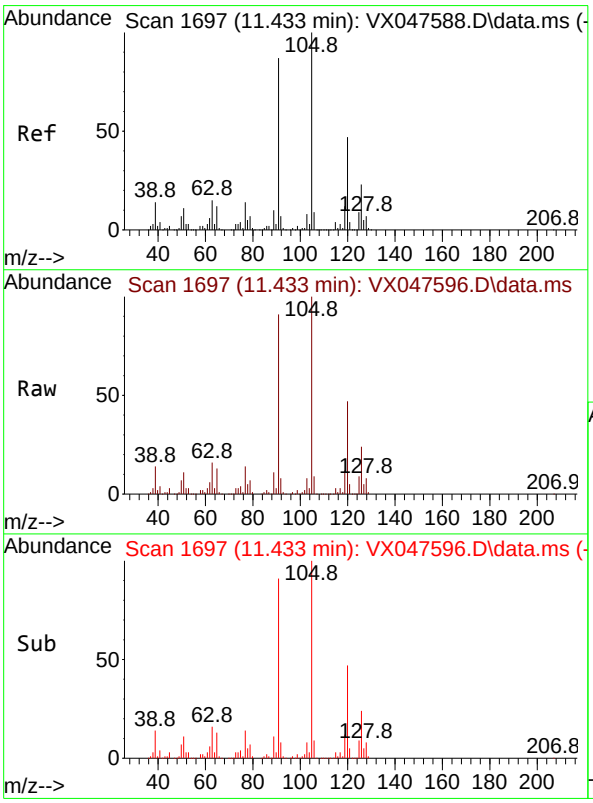
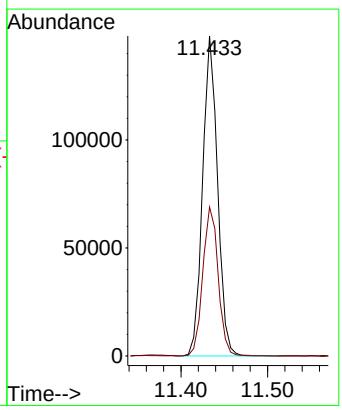


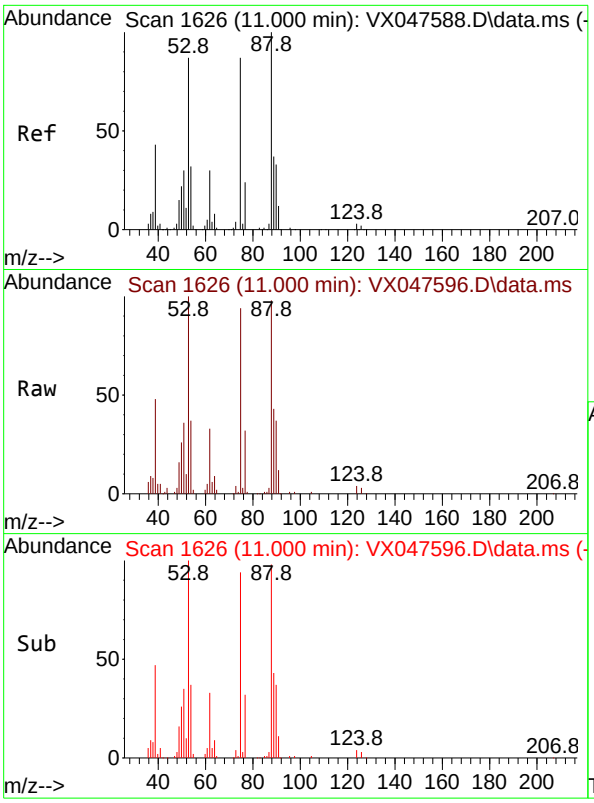


#80
1,3,5-Trimethylbenzene
Concen: 20.426 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:105 Resp: 177272

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.6	70.8

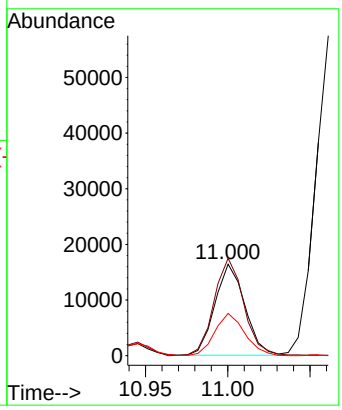




#81
trans-1,4-Dichloro-2-butene
Concen: 18.708 ug/l
RT: 11.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 2063

Ion	Ratio	Lower	Upper
75	100		
53	107.3	83.4	125.2
89	46.8	36.3	54.5



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

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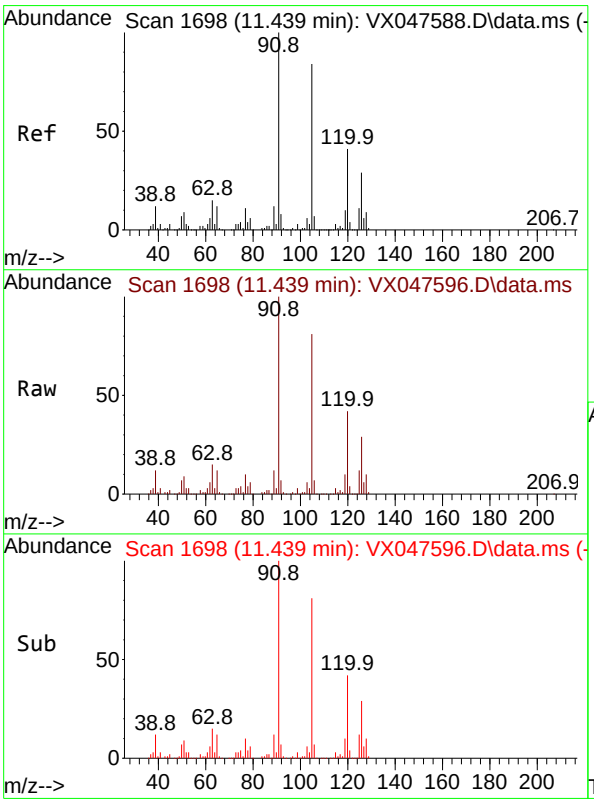
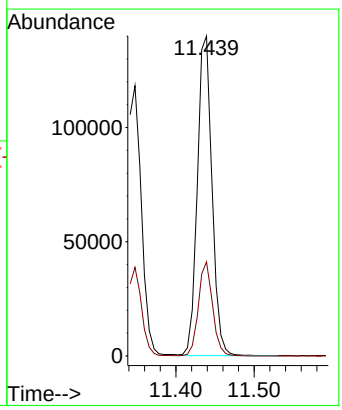
Supervised By :Mahesh Dadoda 09/18/2025

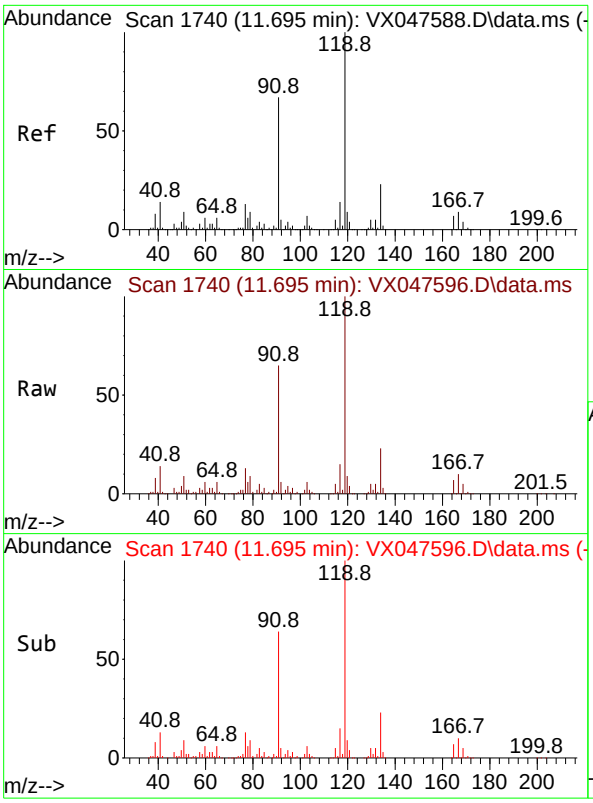


#82
4-Chlorotoluene
Concen: 20.099 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 91 Resp: 181551

Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.2	42.6

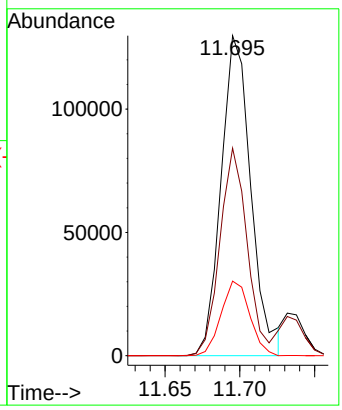




#83
tert-Butylbenzene
Concen: 20.234 ug/l
RT: 11.695 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:119 Resp: 17976

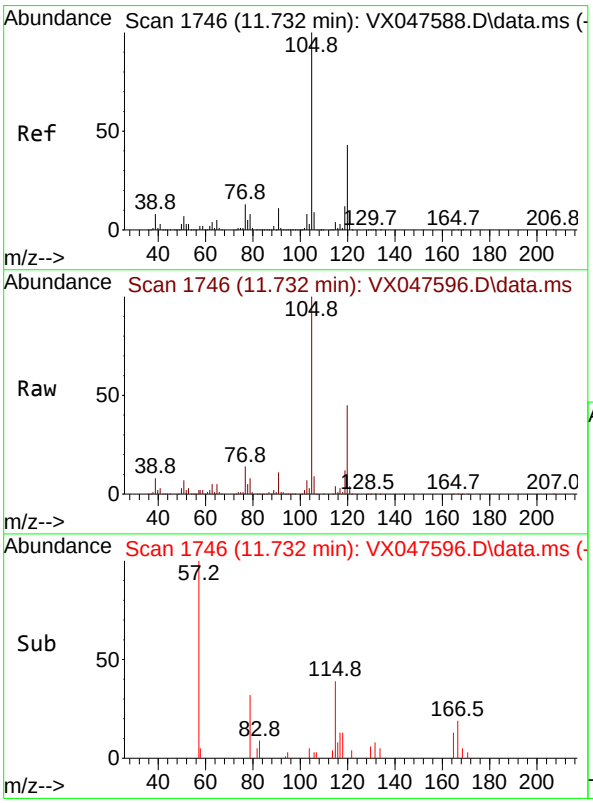
Ion	Ratio	Lower	Upper
119	100		
91	59.4	29.6	88.8
134	22.4	11.0	33.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

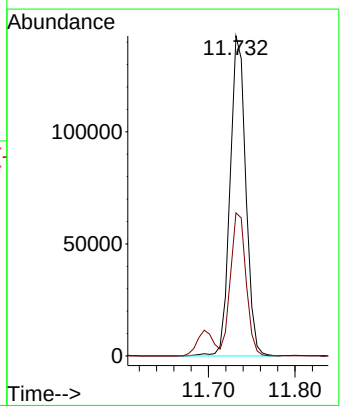
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

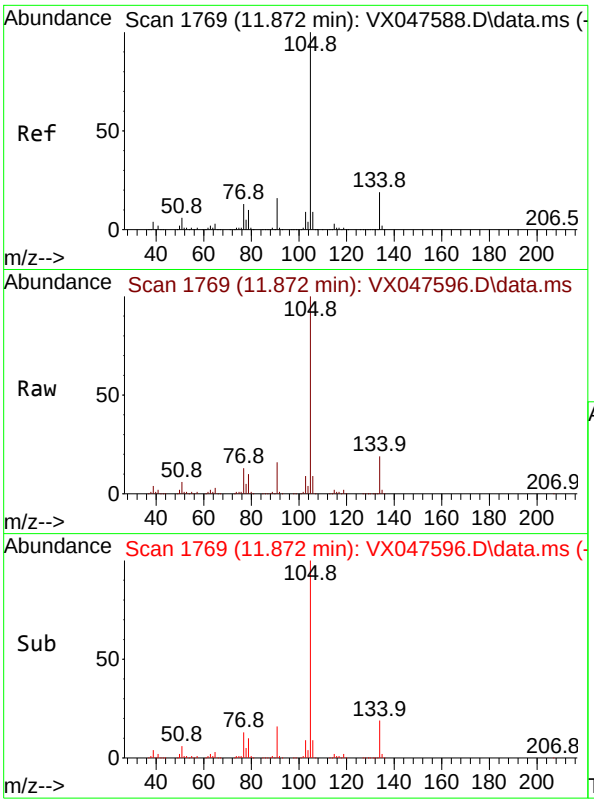


#84
1,2,4-Trimethylbenzene
Concen: 20.438 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:105 Resp: 179835

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1

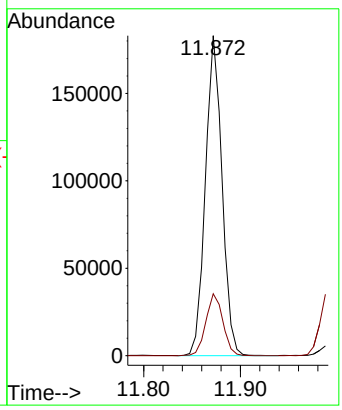




#85
sec-Butylbenzene
Concen: 20.753 ug/l
RT: 11.872 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:105 Resp: 21900

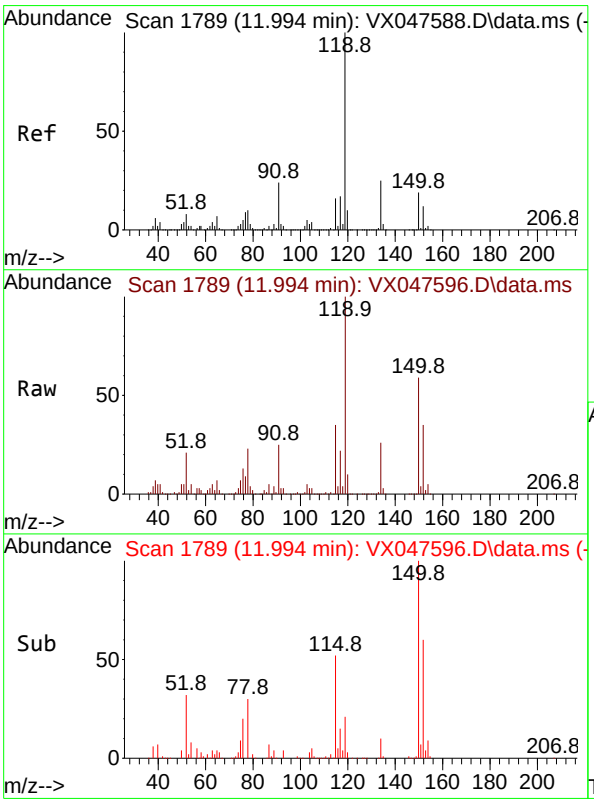
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

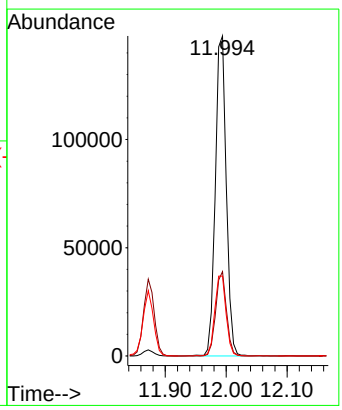
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

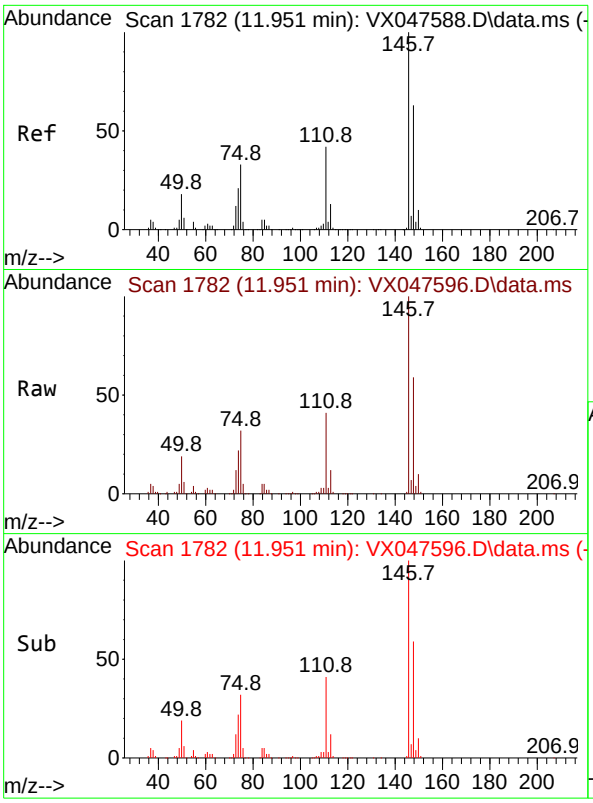


#86
p-Isopropyltoluene
Concen: 20.579 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:119 Resp: 183853

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.6	37.8
91	26.0	12.6	37.6

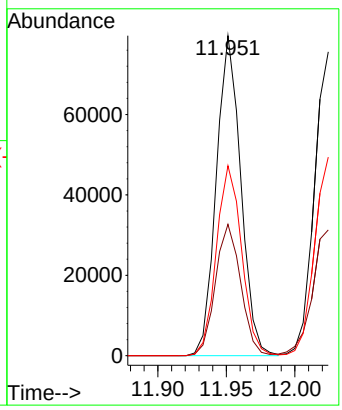




#87
1,3-Dichlorobenzene
Concen: 20.431 ug/l
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:146 Resp: 9873

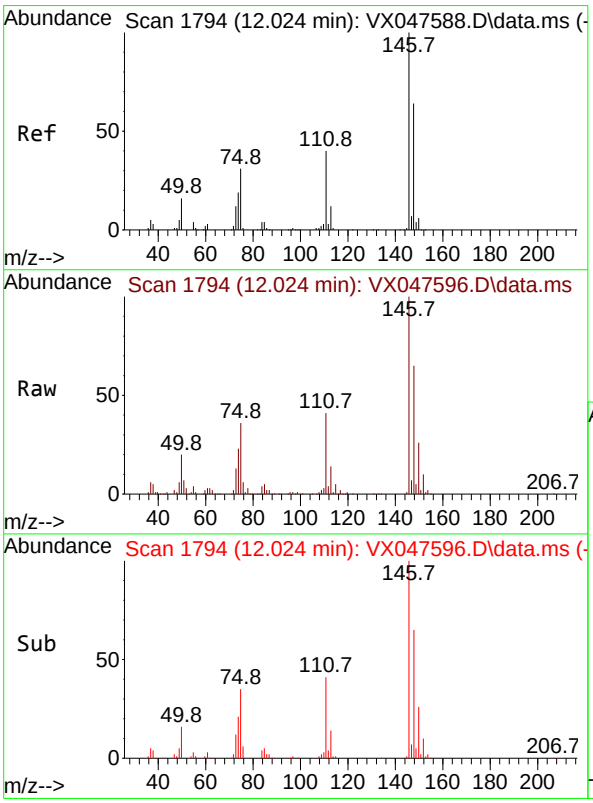
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.5	64.5
148	61.4	32.0	96.0



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

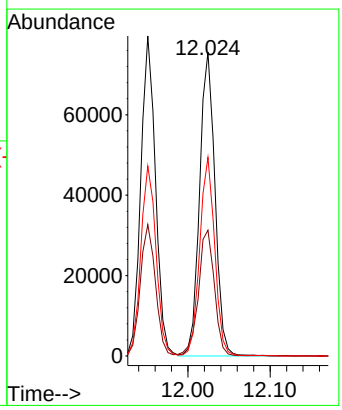
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

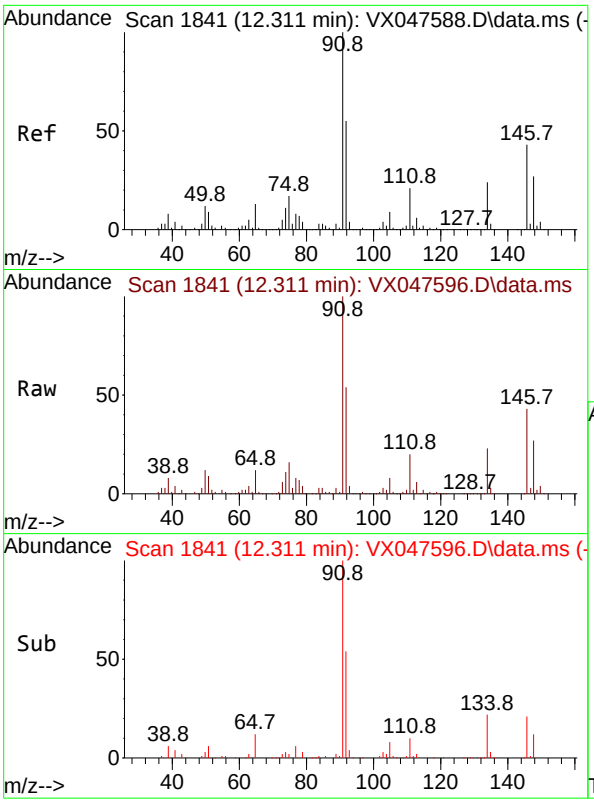


#88
1,4-Dichlorobenzene
Concen: 19.791 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:146 Resp: 98157

Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.8	62.4
148	63.6	31.7	95.1

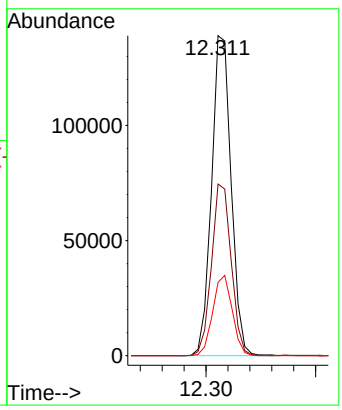




#89
n-Butylbenzene
Concen: 20.855 ug/l
RT: 12.311 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 91 Resp: 17239

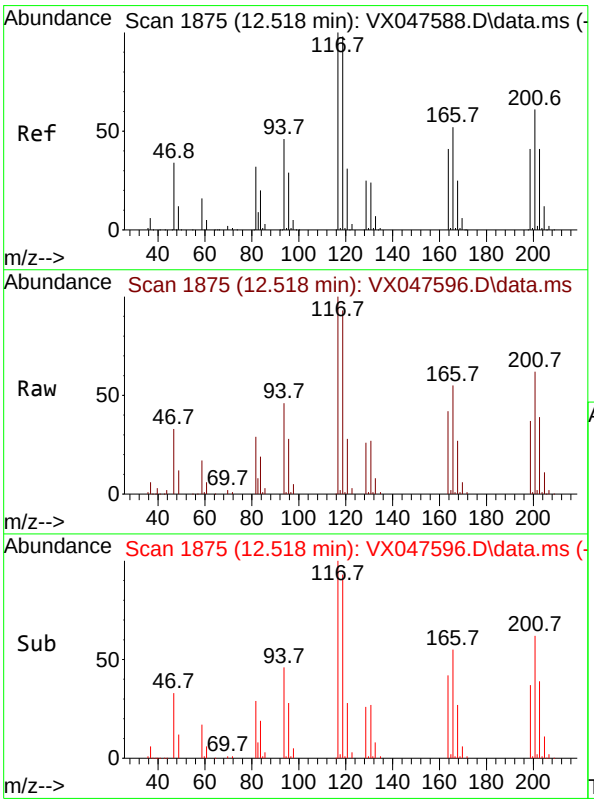
Ion	Ratio	Lower	Upper
91	100		
92	54.0	27.6	82.7
134	25.0	12.6	37.8



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

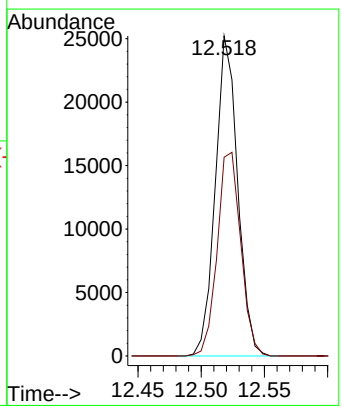
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

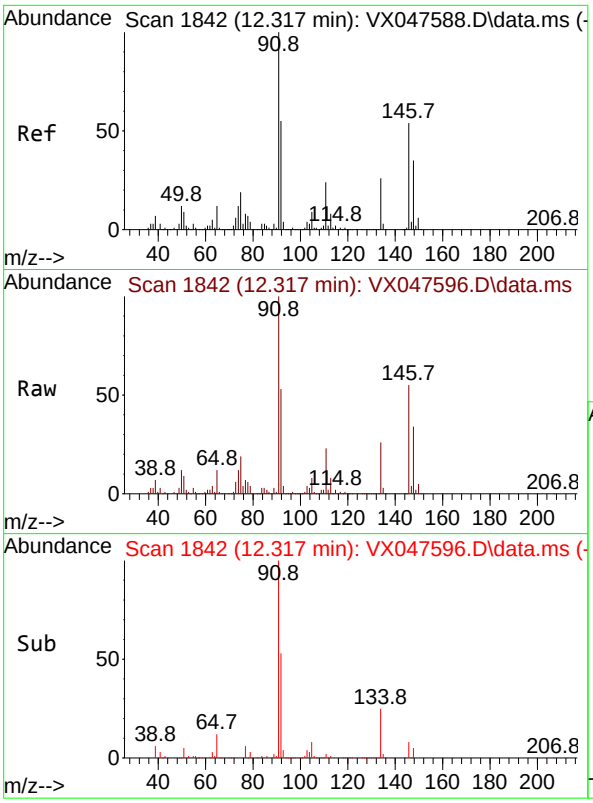


#90
Hexachloroethane
Concen: 19.723 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:117 Resp: 30936

Ion	Ratio	Lower	Upper
117	100		
201	67.1	34.2	102.5

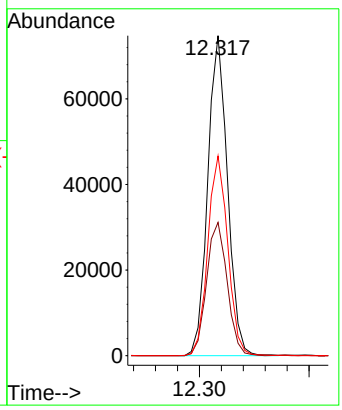




#91
1,2-Dichlorobenzene
Concen: 20.267 ug/l
RT: 12.317 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:146 Resp: 9330

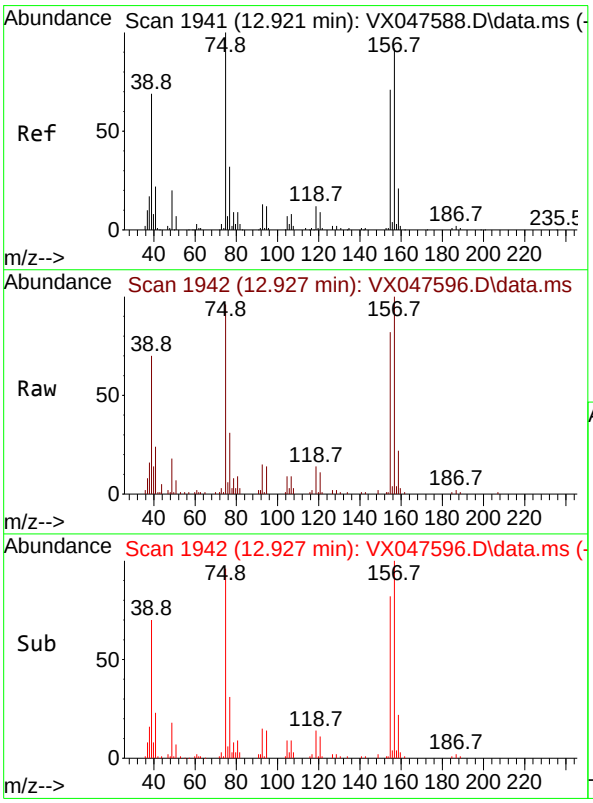
Ion	Ratio	Lower	Upper
146	100		
111	43.6	22.2	66.6
148	63.3	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

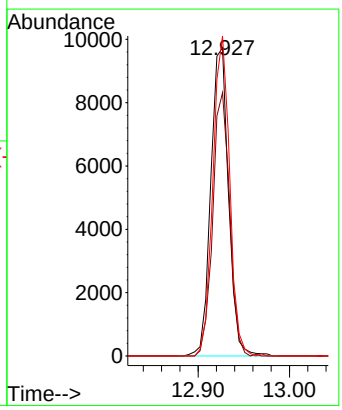
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

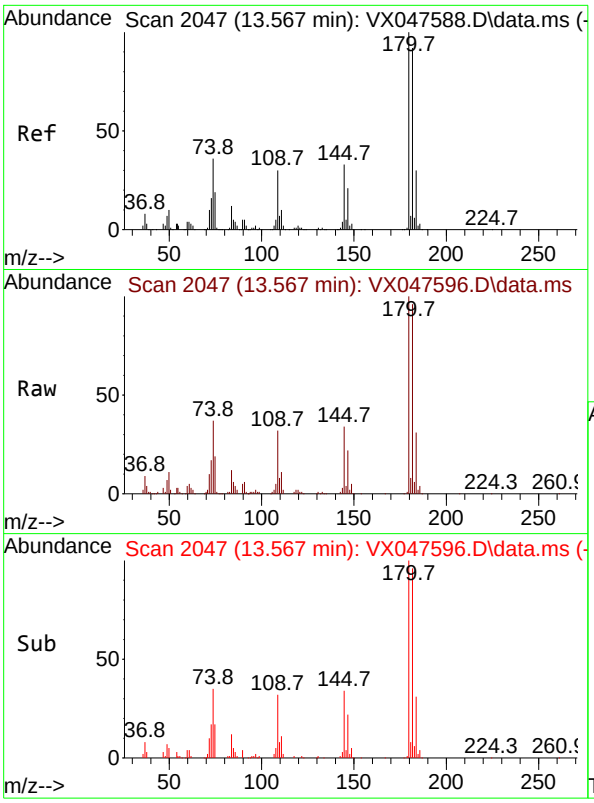


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.228 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion: 75 Resp: 13089

Ion	Ratio	Lower	Upper
75	100		
155	81.5	37.7	113.1
157	98.2	49.8	149.4

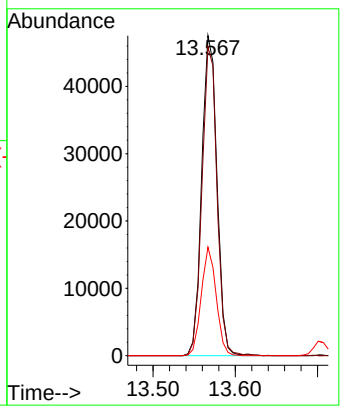




#93
1,2,4-Trichlorobenzene
Concen: 20.504 ug/l
RT: 13.567 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:180 Resp: 6135

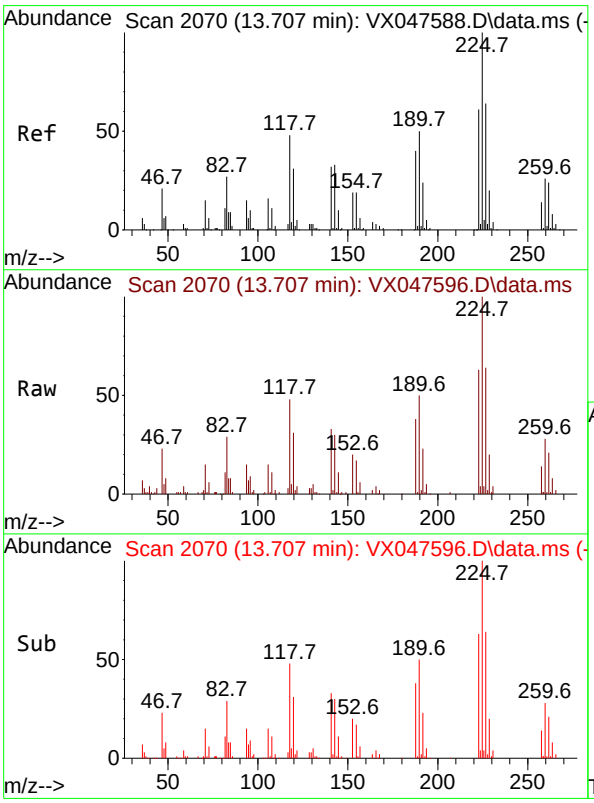
Ion	Ratio	Lower	Upper
180	100		
182	94.7	46.6	139.8
145	33.1	16.4	49.1



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

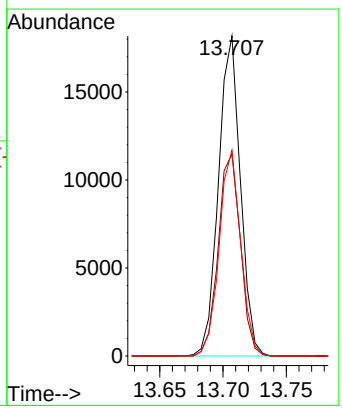
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

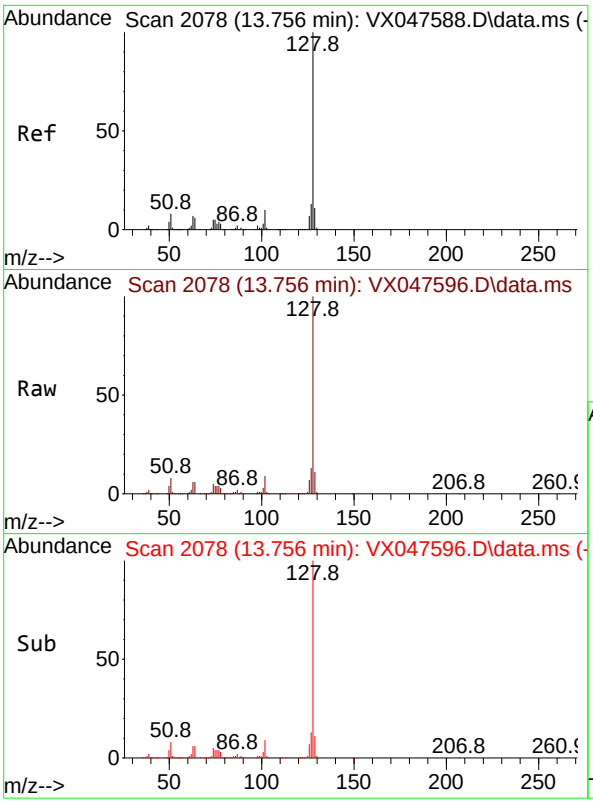


#94
Hexachlorobutadiene
Concen: 21.504 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:225 Resp: 21855

Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.7	95.1
227	63.2	32.0	96.0

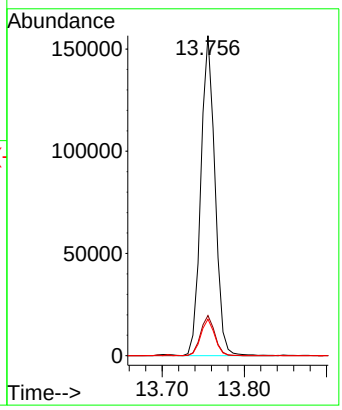




#95
Naphthalene
Concen: 20.470 ug/l
RT: 13.756 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:128 Resp: 18651

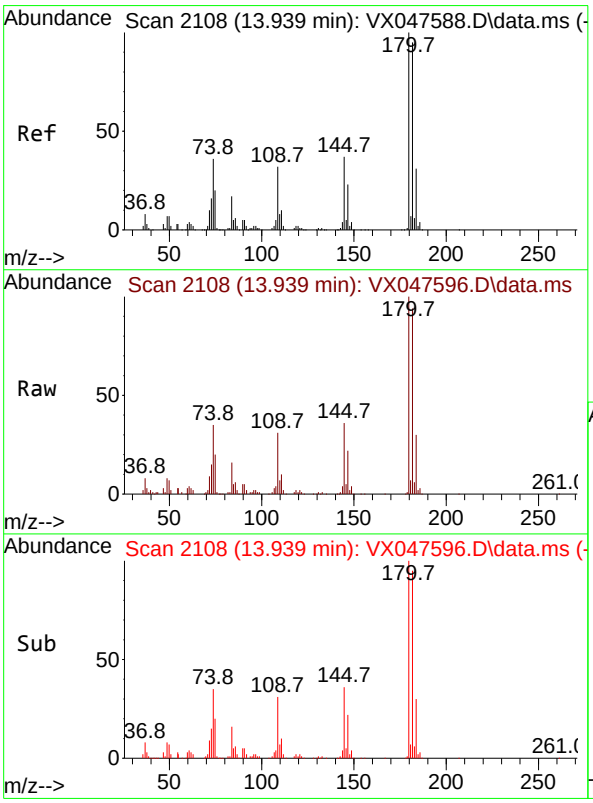
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.3	8.8	13.2



Instrument :
MSVOA_X
ClientSampleId :
VX0916WBSD01

Manual Integrations
APPROVED

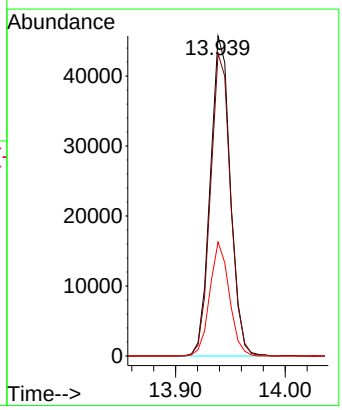
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.862 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047596.D
Acq: 16 Sep 2025 15:46

Tgt Ion:180 Resp: 58065

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.8
145	34.5	17.9	53.7



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Manual Integration Report

Sequence:	vx091625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047585.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dichlorobenzene	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dioxane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC005	VX047586.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:50 AM	MMDadoda	9/18/2025 3:22:12 PM	Peak Integrated by Software
VSTDICC020	VX047587.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:57 AM	MMDadoda	9/18/2025 3:22:15 PM	Peak Integrated by Software
VSTDICCC050	VX047588.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:01 AM	MMDadoda	9/18/2025 3:22:17 PM	Peak Integrated by Software
VSTDICC100	VX047589.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:06 AM	MMDadoda	9/18/2025 3:22:20 PM	Peak Integrated by Software
VSTDICC150	VX047590.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:11 AM	MMDadoda	9/18/2025 3:22:24 PM	Peak Integrated by Software
VSTDICV050	VX047592.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:15 AM	MMDadoda	9/18/2025 3:22:26 PM	Peak Integrated by Software
VX0916WBS01	VX047595.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:20 AM	MMDadoda	9/18/2025 3:22:48 PM	Peak Integrated by Software
VX0916WBSD01	VX047596.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:29 AM	MMDadoda	9/18/2025 3:22:28 PM	Peak Integrated by Software
Q3015-01	VX047597.D	1,3-Dichlorobenzene	MMDadoda	9/23/2025 6:26:50 AM	SAM	9/23/2025 6:27:15 AM	Peak Integrated by Software
Q3015-01	VX047597.D	Bromochloromethane	MMDadoda	9/23/2025 6:26:50 AM	SAM	9/23/2025 6:27:15 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx091625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047599.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:34 AM	MMDadoda	9/18/2025 3:22:31 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM		
SubDirectory	VX091625	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135487
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494
CCC	VP135488
Internal Standard/PEM	
ICV/I.BLK	VP135495
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047584.D	16 Sep 2025 08:56	JC/MD	Ok
2	VSTDICC001	VX047585.D	16 Sep 2025 09:23	JC/MD	Ok,M
3	VSTDICC005	VX047586.D	16 Sep 2025 10:16	JC/MD	Ok,M
4	VSTDICC020	VX047587.D	16 Sep 2025 10:37	JC/MD	Ok,M
5	VSTDICCC050	VX047588.D	16 Sep 2025 10:58	JC/MD	Ok,M
6	VSTDICC100	VX047589.D	16 Sep 2025 11:40	JC/MD	Ok,M
7	VSTDICC150	VX047590.D	16 Sep 2025 12:01	JC/MD	Ok,M
8	IBLK	VX047591.D	16 Sep 2025 12:22	JC/MD	Ok
9	VSTDICV050	VX047592.D	16 Sep 2025 13:35	JC/MD	Ok,M
10	VX0916MBL01	VX047593.D	16 Sep 2025 14:03	JC/MD	Ok
11	VX0916WBL01	VX047594.D	16 Sep 2025 14:53	JC/MD	Ok
12	VX0916WBS01	VX047595.D	16 Sep 2025 15:21	JC/MD	Ok,M
13	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46	JC/MD	Ok,M
14	Q3015-01	VX047597.D	16 Sep 2025 16:07	JC/MD	Ok,M
15	VIBLK	VX047598.D	16 Sep 2025 16:30	JC/MD	Ok
16	VSTDCCC050	VX047599.D	16 Sep 2025 16:51	JC/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM		
SubDirectory	VX091625	HP Acquire Method		HP Processing Method	82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135487
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494
CCC	VP135488
Internal Standard/PEM	
ICV/I.BLK	VP135495
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047584.D	16 Sep 2025 08:56		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX047585.D	16 Sep 2025 09:23		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX047586.D	16 Sep 2025 10:16	QR-58	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX047587.D	16 Sep 2025 10:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX047588.D	16 Sep 2025 10:58		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX047589.D	16 Sep 2025 11:40		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX047590.D	16 Sep 2025 12:01		JC/MD	Ok,M
8	IBLK	IBLK	VX047591.D	16 Sep 2025 12:22		JC/MD	Ok
9	VSTDICV050	ICVVX091625	VX047592.D	16 Sep 2025 13:35		JC/MD	Ok,M
10	VX0916MBL01	VX0916MBL01	VX047593.D	16 Sep 2025 14:03		JC/MD	Ok
11	VX0916WBL01	VX0916WBL01	VX047594.D	16 Sep 2025 14:53		JC/MD	Ok
12	VX0916WBS01	VX0916WBS01	VX047595.D	16 Sep 2025 15:21		JC/MD	Ok,M
13	VX0916WBSD01	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46		JC/MD	Ok,M
14	Q3015-01	WP0925-PT-VOA-WP	VX047597.D	16 Sep 2025 16:07		JC/MD	Ok,M
15	VIBLK	VIBLK	VX047598.D	16 Sep 2025 16:30		JC/MD	Ok
16	VSTDCCC050	VSTDCCC050EC	VX047599.D	16 Sep 2025 16:51		JC/MD	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q3015

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vx091625,

Standard ID :
VP134142,VP134145,VP134149,VP134151,VP134263,VP134742,VP134933,VP134935,VP134956,VP134957,VP135059,VP135061,VP135123,VP135480,VP135482,VP135484,VP135487,VP135488,VP135489,VP135490,VP135491,VP135492,VP135493,VP135494,VP135495,

Chemical ID :
V12968,V13391,V13450,V13583,V13584,V13823,V14129,V14182,V14290,V14444,V14446,V14507,V14508,V14529,V14530,V14625,V14626,V14629,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14702,V14705,V14716,V14745,V14751,V14795,V14806,V14807,V14843,V14906,V14921,V14929,V14974,V14996,V15066,V15067,V15068,V15069,V15070,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP134145	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.50000ml of V14675 + 49.50000ml of V14929 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 0.25000ml of V14639 + 24.75000ml of V14929 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP134263	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/12/2025

FROM 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
262	8260 Working STD (BCM)-Second source, 100PPM	VP134742	07/14/2025	01/07/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 07/23/2025

FROM 1.00000ml of V12968 + 9.00000ml of V14629 = Final Quantity: 10.000 ml

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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
1738	8260 surrogate 20 ppm	VP134935	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.02000ml of V14906 + 24.99000ml of V14625 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135059	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP135061	08/11/2025	09/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 17.50000ml of V14625 + 2.50000ml of VP135059 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP135123	08/14/2025	09/30/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/19/2025

FROM 0.16000ml of V13450 + 0.40000ml of V14996 + 0.80000ml of V13823 + 0.80000ml of V14129 + 0.80000ml of V14182 + 0.80000ml of V14795 + 0.80000ml of V14974 + 4.24000ml of V14625 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	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
180	8260 Working STD (Acrolein)-First source, 100PPM	VP135482	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/19/2025

FROM 17.50000ml of V14625 + 2.50000ml of VP135480 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP135484	09/16/2025	10/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/19/2025

FROM 0.60000ml of V15070 + 1.00000ml of V15069 + 8.40000ml of V14625 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135487	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP135488	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135480 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
334	1 PPB ICC, 8260-Water	VP135489	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.98200ml of W3112 + 0.00200ml of VP134145 + 0.00200ml of VP134151 + 0.00200ml of VP134935 + 0.00200ml of VP135061 + 0.00200ml of VP135482 + 0.00800ml of VP134956 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
335	5 PPB ICC, 8260-Water	VP135490	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.94200ml of W3112 + 0.00800ml of VP134956 + 0.01000ml of VP134145 + 0.01000ml of VP134151 + 0.01000ml of VP134935 + 0.01000ml of VP135061 + 0.01000ml of VP135482 = 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
337	20 PPB ICC, 8260-Water	VP135491	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.97000ml of W3112 + 0.00200ml of VP134142 + 0.00200ml of VP134933 + 0.00500ml of VP134149 + 0.00500ml of VP135059 + 0.00500ml of VP135480 + 0.00800ml of VP134956 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
380	50 PPB ICC, 8260-Water	VP135492	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135059 + 0.01250ml of VP135480 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
381	100 PPB ICC, 8260-Water	VP135493	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.89700ml of W3112 + 0.00800ml of VP134956 + 0.01000ml of VP134142 + 0.01000ml of VP134933 + 0.02500ml of VP134149 + 0.02500ml of VP135059 + 0.02500ml of VP135480 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
382	150 PPB ICC, 8260-Water	VP135494	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.84950ml of W3112 + 0.00800ml of VP134956 + 0.01500ml of VP134142 + 0.01500ml of VP134933 + 0.03750ml of VP134149 + 0.03750ml of VP135059 + 0.03750ml of VP135480 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
385	50 PPB ICV, 8260-Water	VP135495	09/16/2025	09/17/2025	John Carlone	None	None	Mahesh Dadoda 09/19/2025

FROM 39.92950ml of W3112 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134263 + 0.01250ml of VP135123 + 0.01250ml of VP135484 + 0.02000ml of VP134742 = 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 #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/14/2026	07/14/2025 / SAM	07/06/2022 / SAM	V12968

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	02/14/2026	08/14/2025 / SAM	05/31/2023 / SAM	V13823

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	02/14/2026	08/14/2025 / SAM	01/17/2024 / SAM	V14129

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	02/14/2026	08/14/2025 / SAM	02/20/2024 / SAM	V14182

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	08/08/2025 / SAM	08/15/2024 / SAM	V14446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14507

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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	02/08/2026	08/08/2025 / SAM	09/17/2024 / SAM	V14508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14529

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	02/08/2026	08/08/2025 / SAM	09/18/2024 / SAM	V14530

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	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 #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	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

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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	V14673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14702

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14705

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14716

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14745

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	02/08/2026	08/08/2025 / SAM	12/17/2024 / SAM	V14751

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220563	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14795

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	02/08/2026	08/08/2025 / SAM	01/08/2025 / SAM	V14807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0220531	02/14/2026	08/14/2025 / SAM	05/19/2025 / SAM	V14974

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	A0220242	01/25/2026	07/25/2025 / SAM	06/02/2023 / SAM	V14996

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

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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	V15068

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091325	10/13/2025	09/16/2025 / sam	09/16/2025 / sam	V15069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091325	10/13/2025	09/16/2025 / sam	09/16/2025 / sam	V15070

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
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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
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
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Material No.: 9077-02
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Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
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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
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
https://Absolutestandards.cc

CERTIFIED WEIGHT REPORT

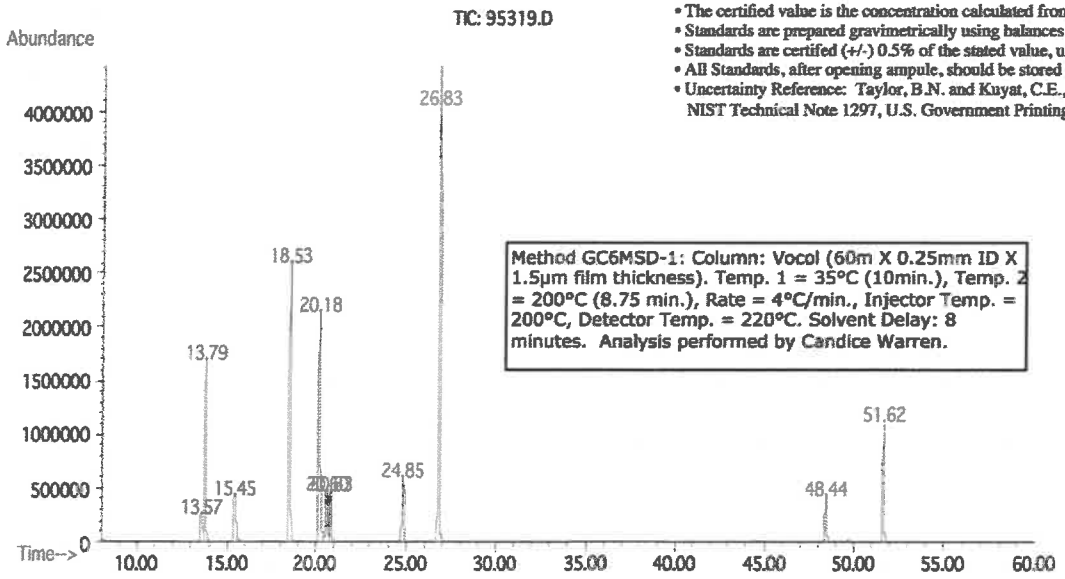
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	orl-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

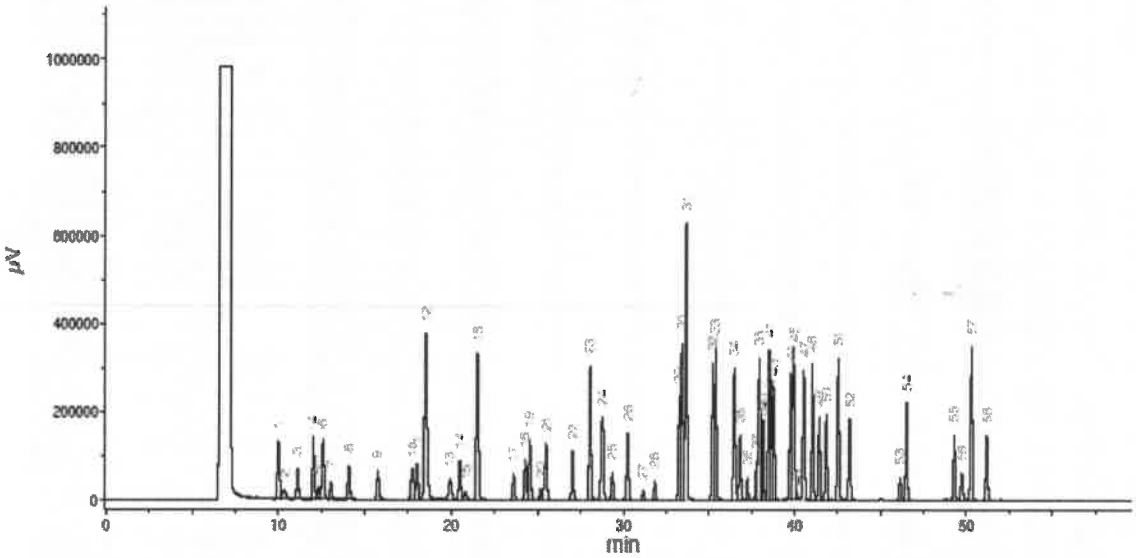
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expended Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20570	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.8mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1260mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.22
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

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

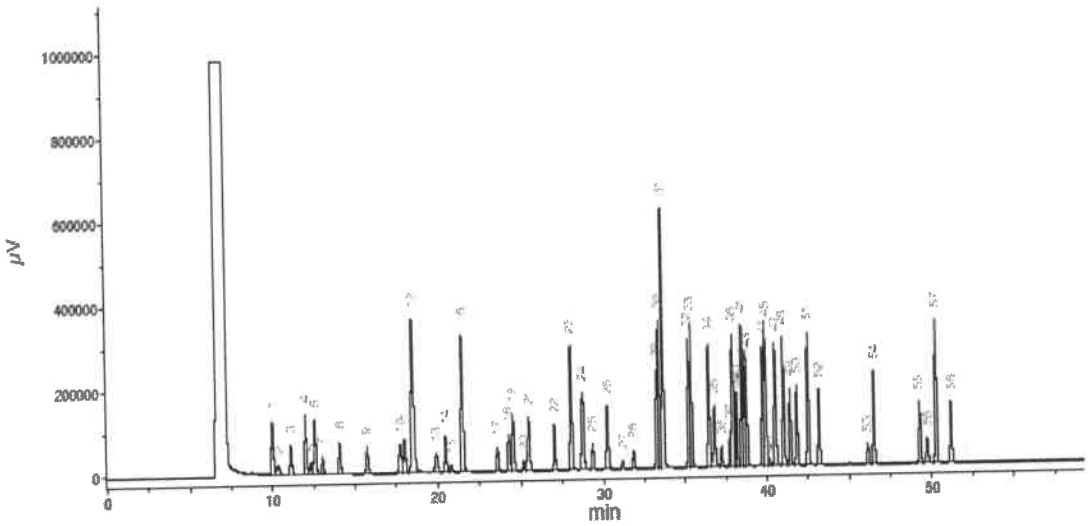
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty	5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

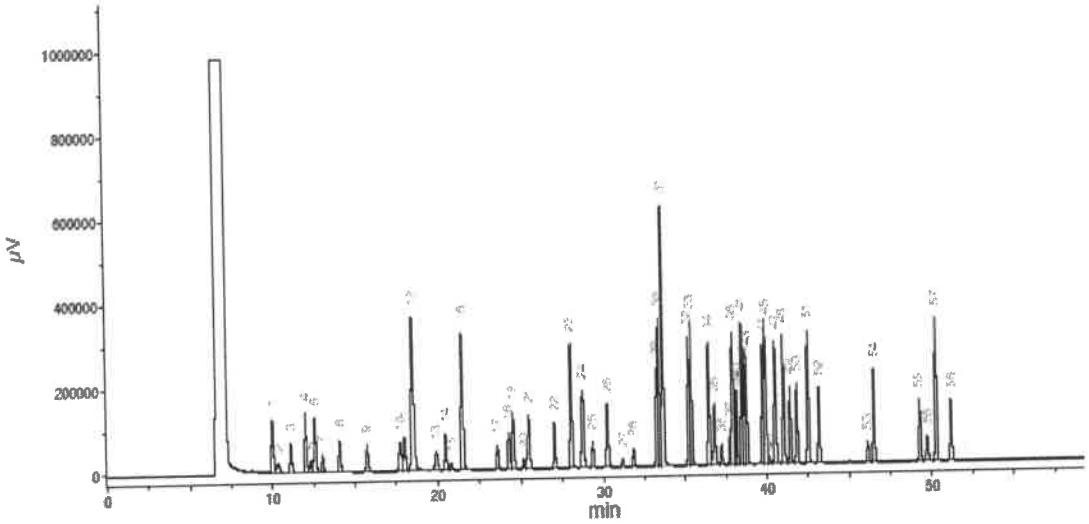
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 846mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	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	27.07
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	35.39
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.46
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

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

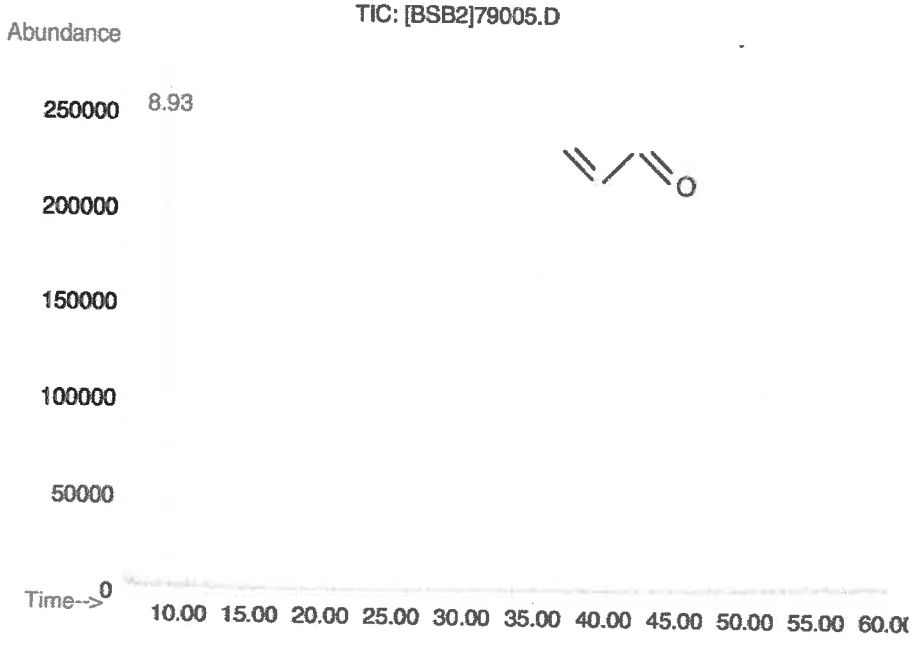
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

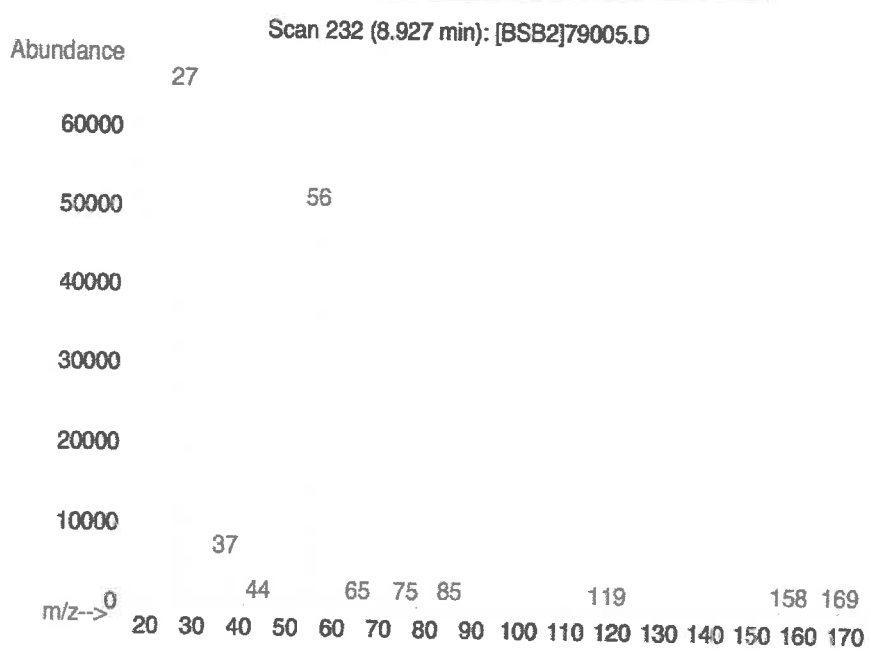
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

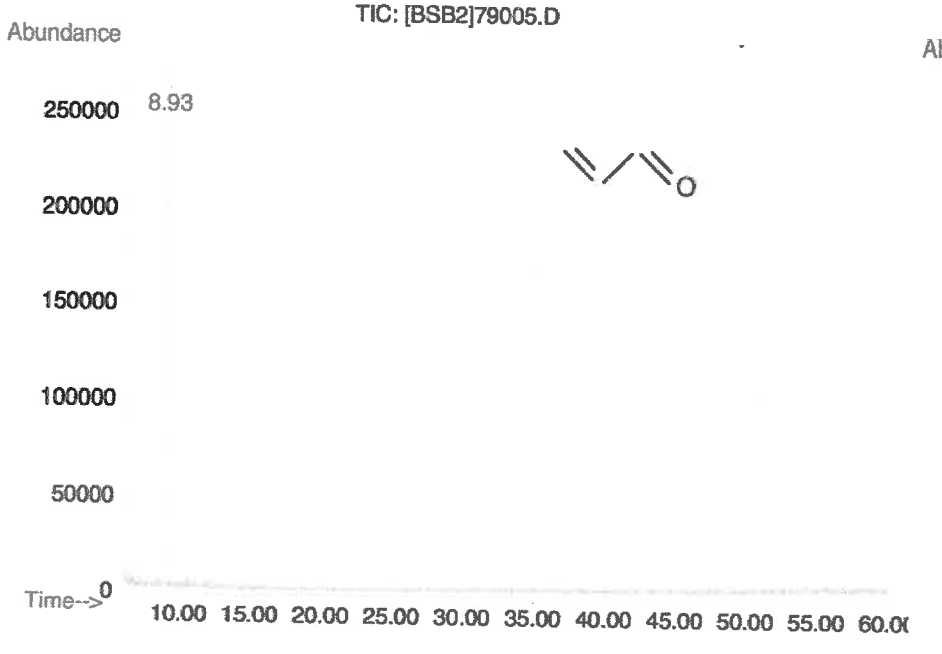
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

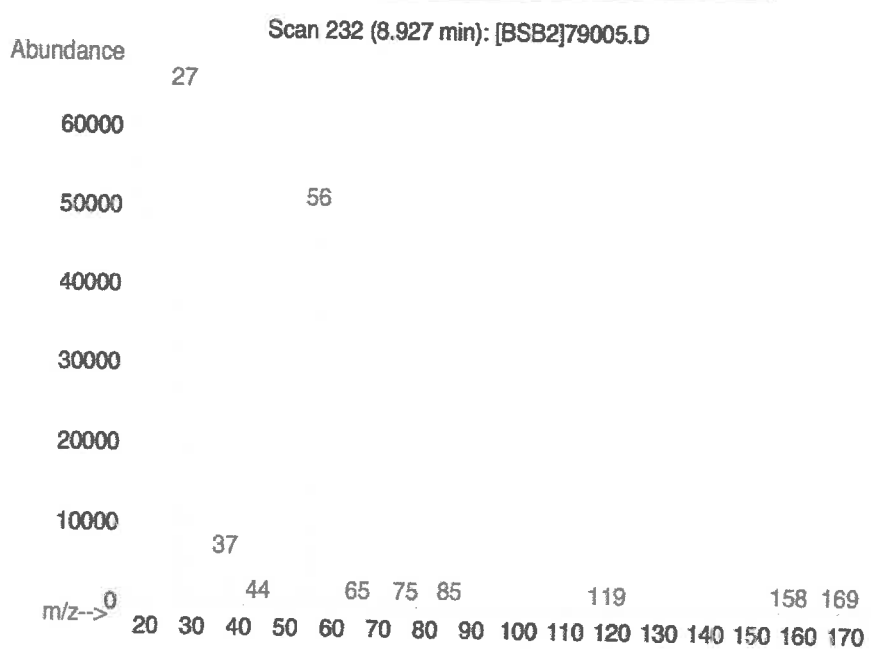
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

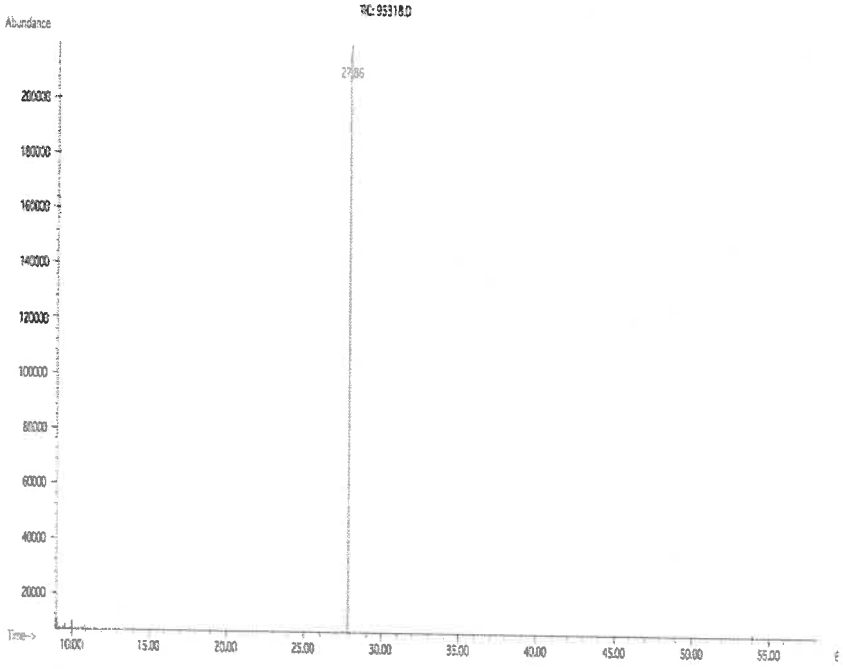
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

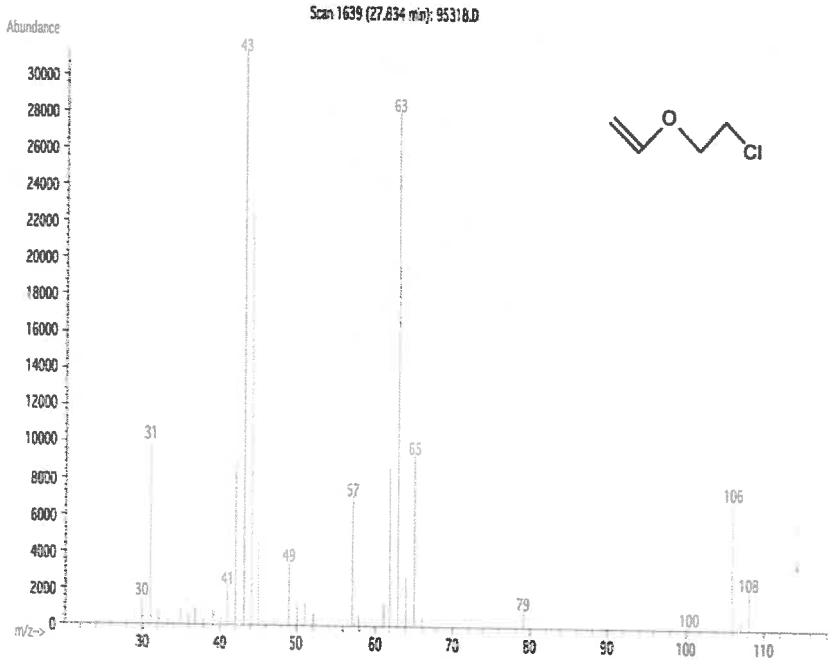
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

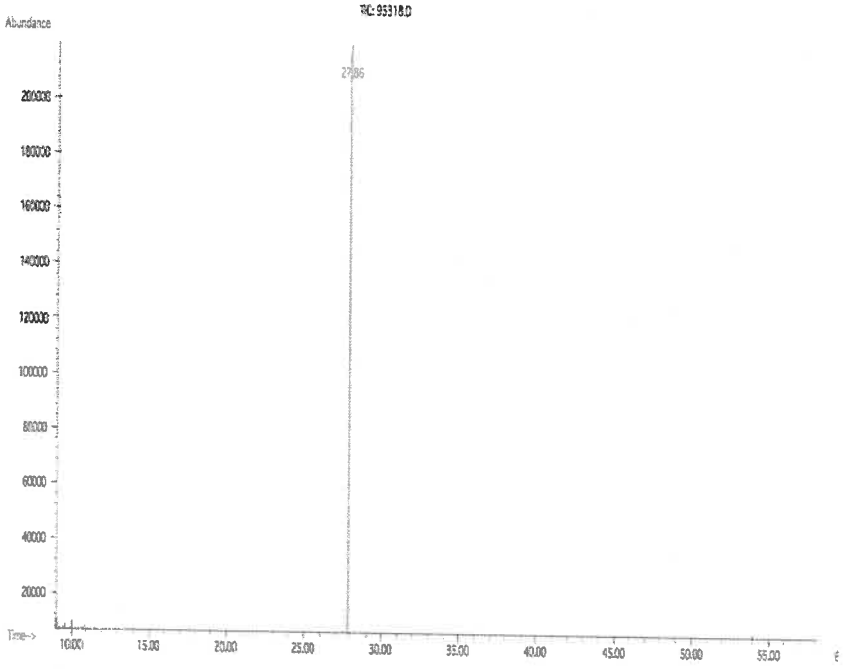
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

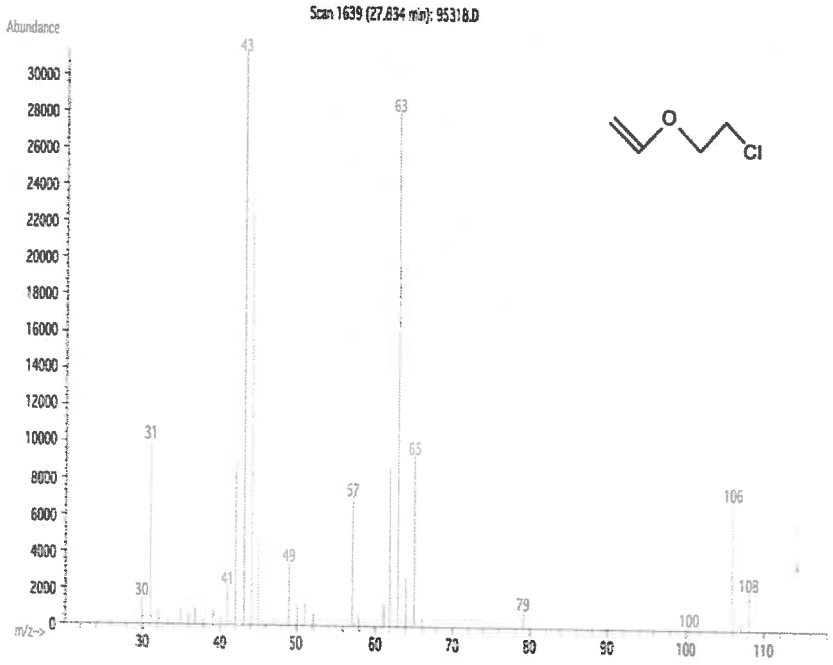
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Certified Reference Material CRM

Rec 12/6/24
20 vial

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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

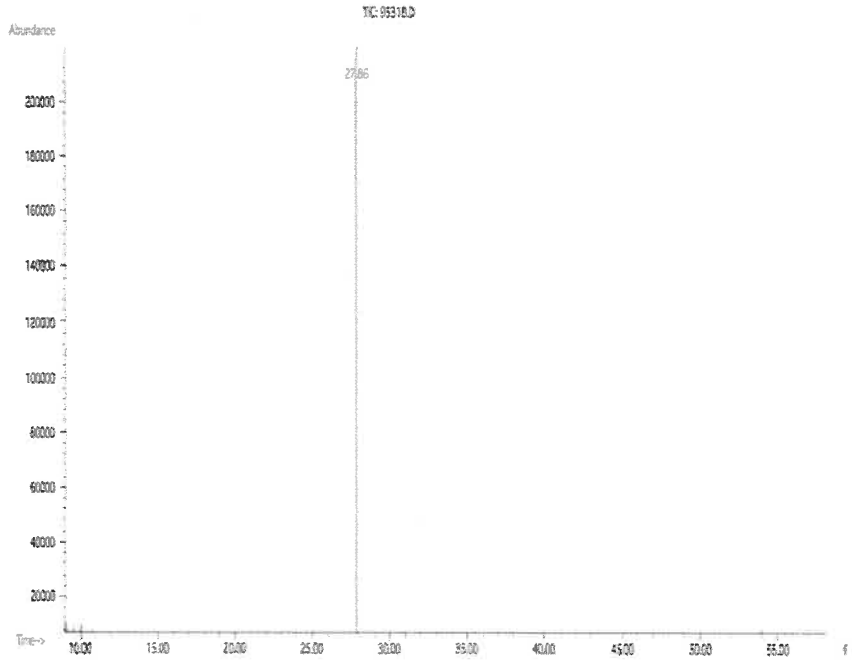
V14630 to V14649

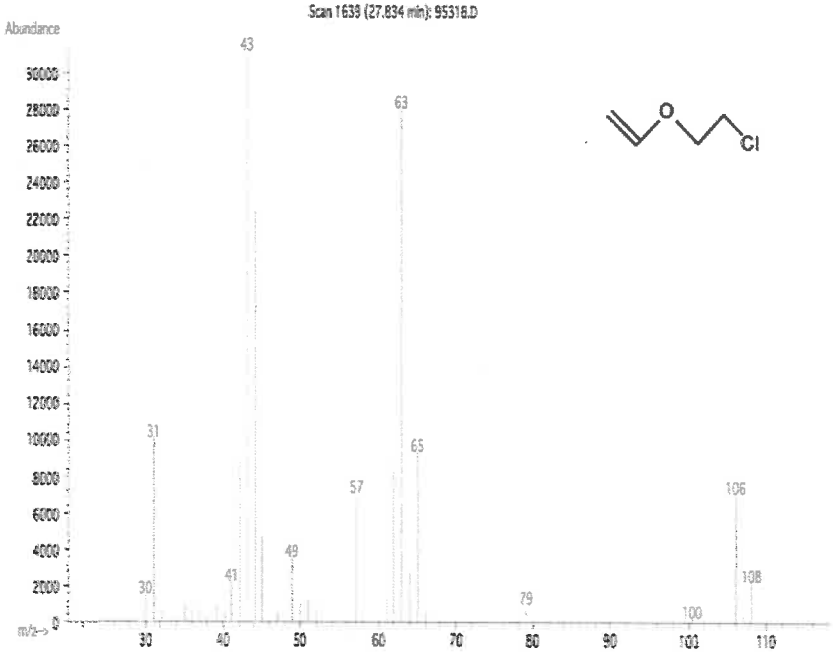
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- 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.
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Hamden, CT 06518-0585
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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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Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

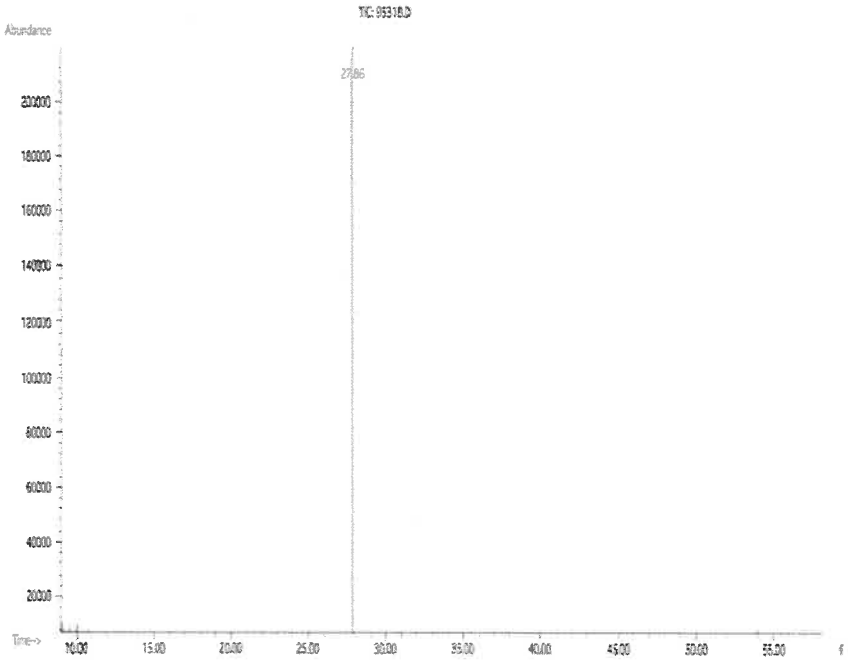
Solvent(s): Methanol **Lot#** EJ143-US

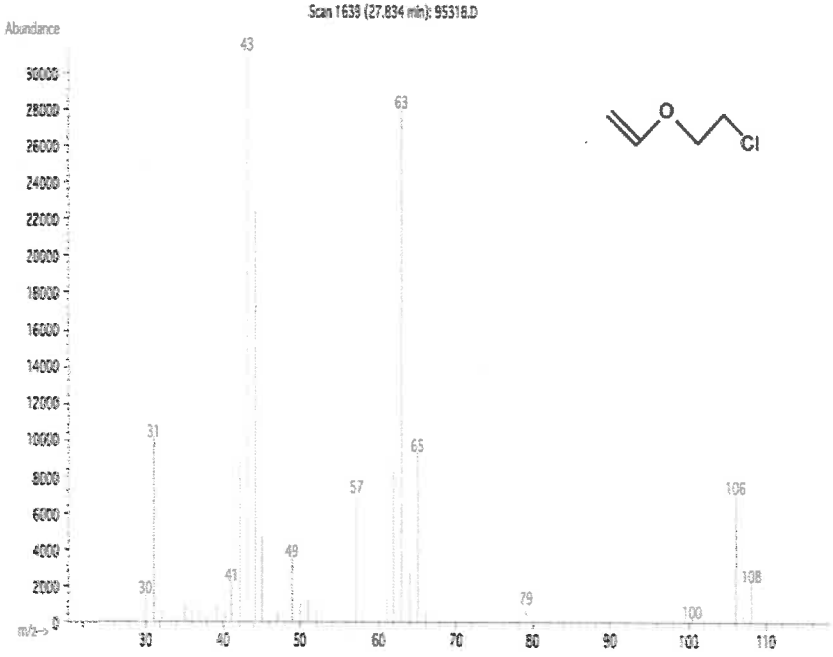
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

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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.
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Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
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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.

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LC50 Inhalation - rat - 4 h - 64000 ppm
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Toxic if inhaled. Causes respiratory tract irritation.
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.

Section XVI. Misc. INFORMATION

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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

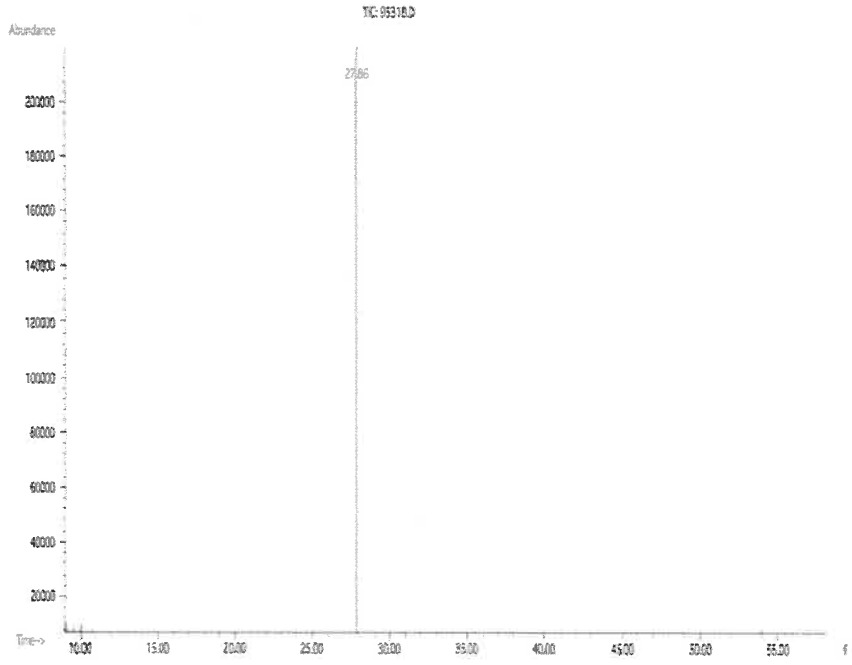
Solvent(s): Methanol **Lot#** EJ143-US

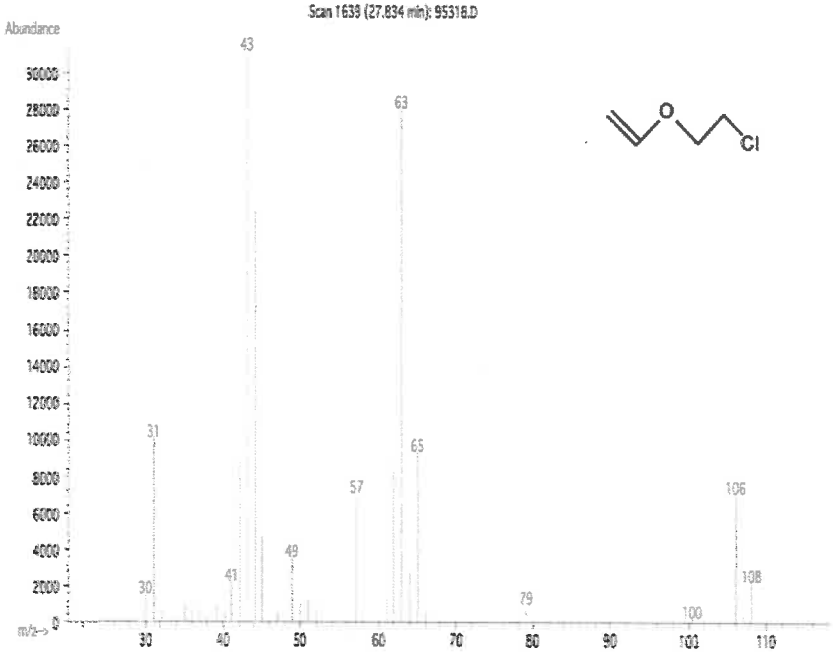
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- 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.

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Rec 12/6/24
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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

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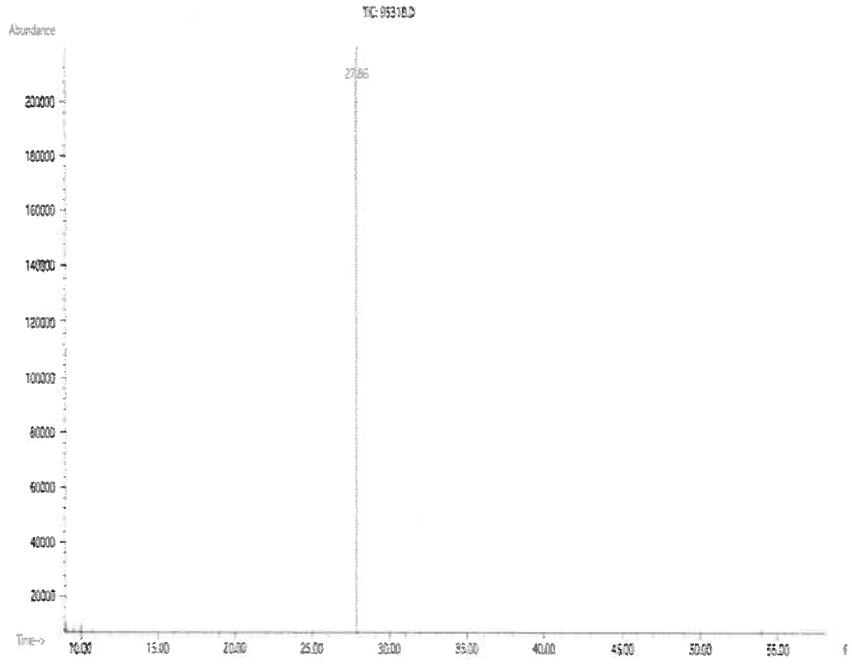

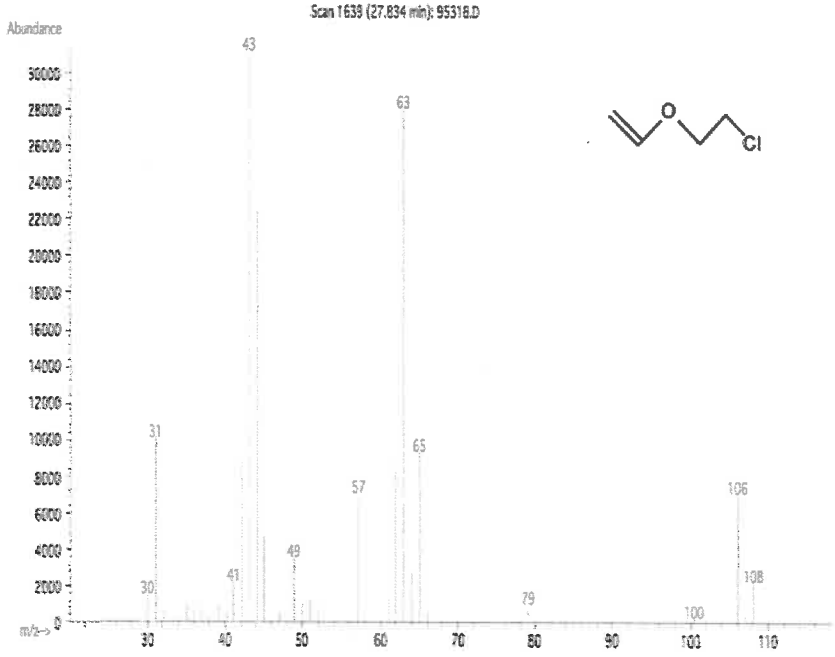

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Signal Word: DANGER

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Components (Specific Chemical Identity; Common Name(s))			% (optional)
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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

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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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4 J

RESTEK

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

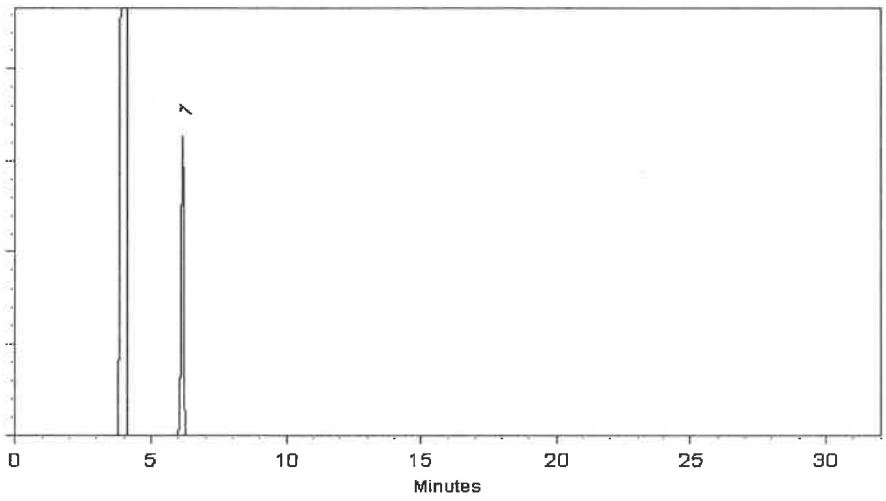
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

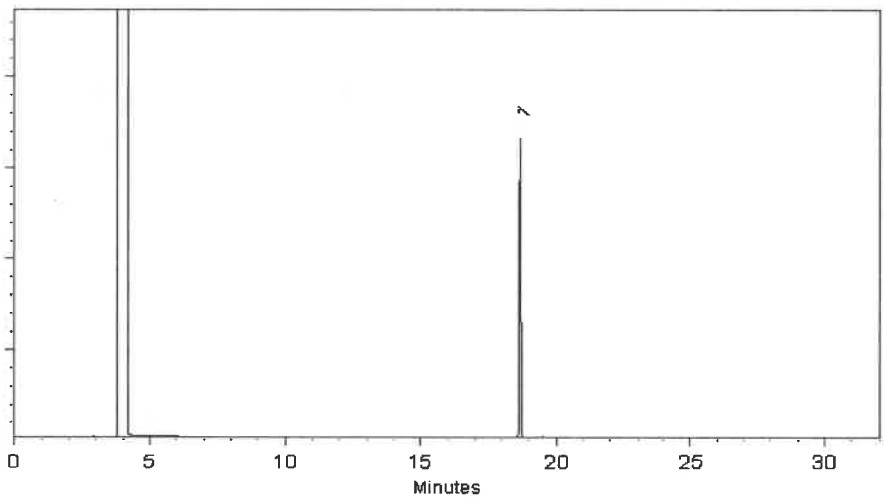
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

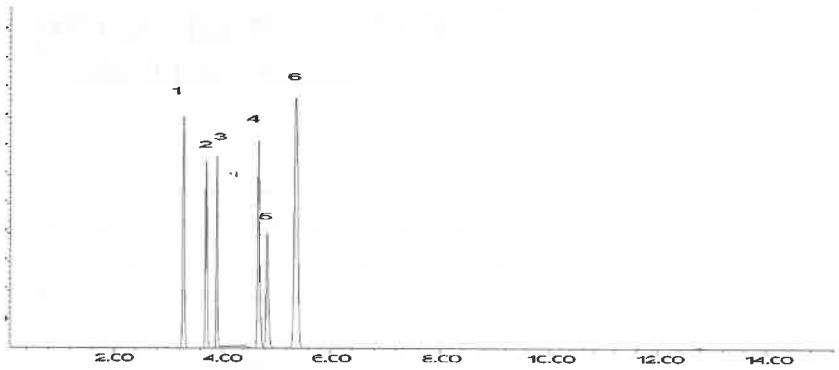
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

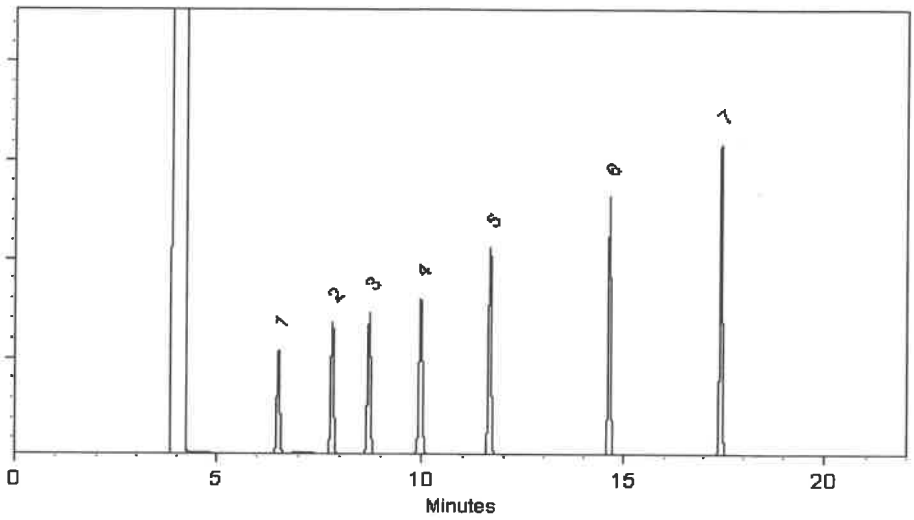
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

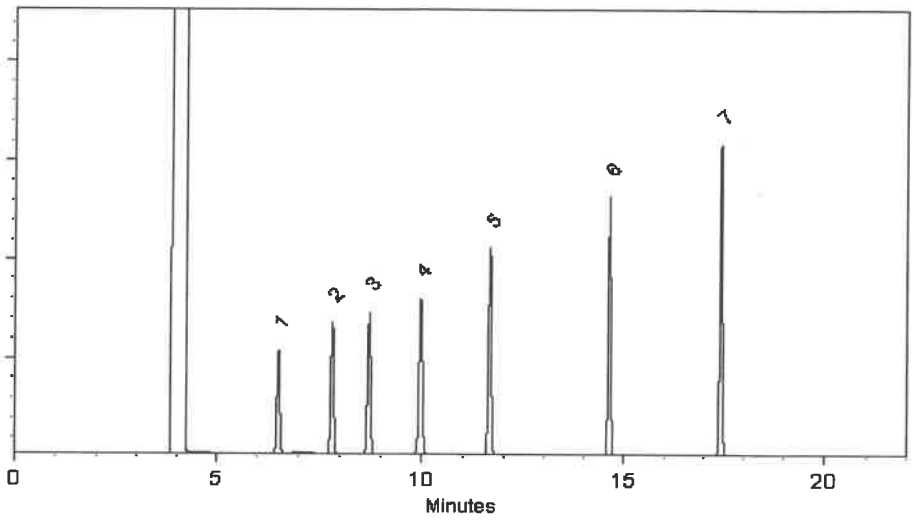
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

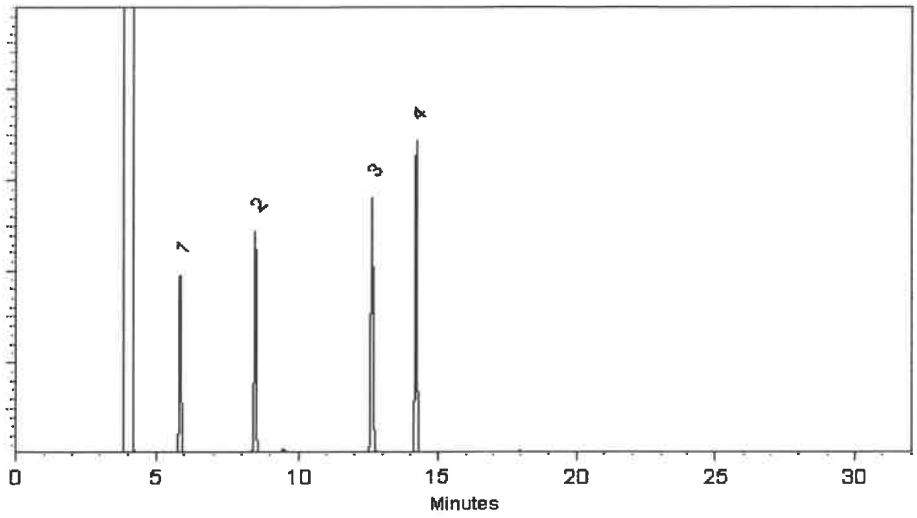
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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30 Yrs

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

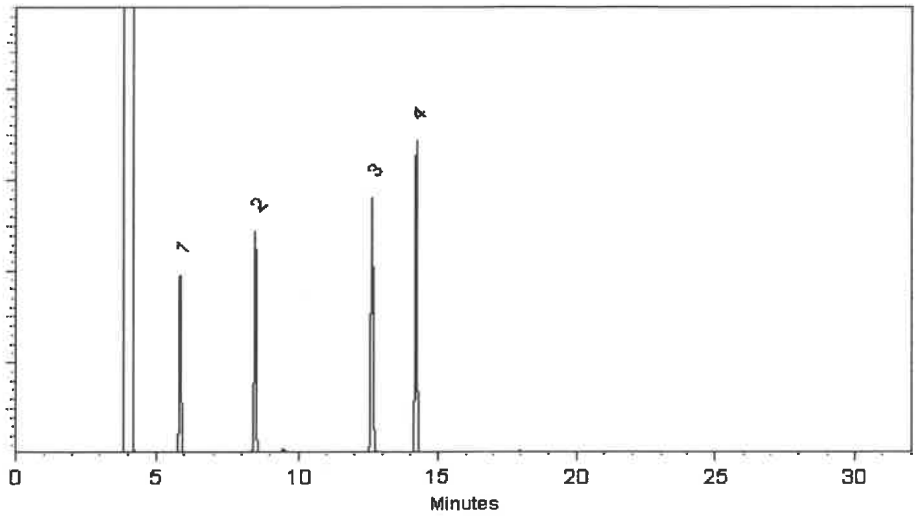
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

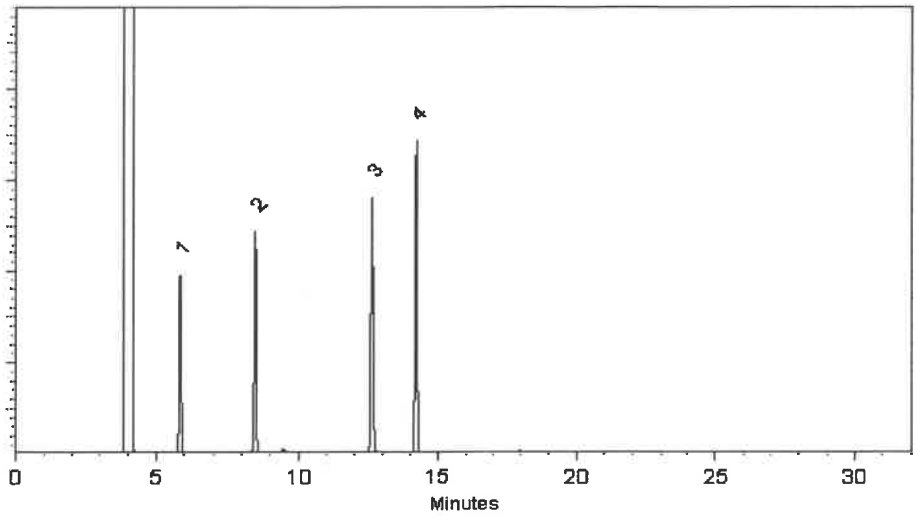
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec: 12/09/24

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

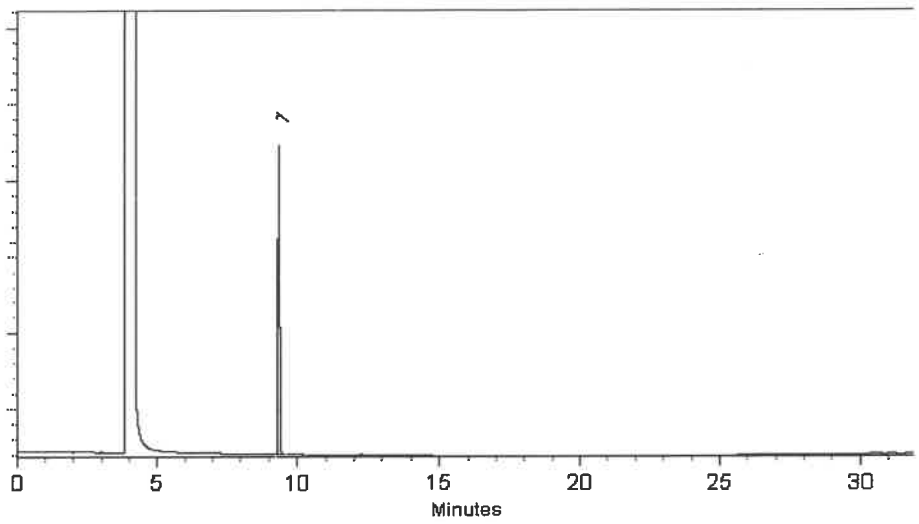
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I **Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

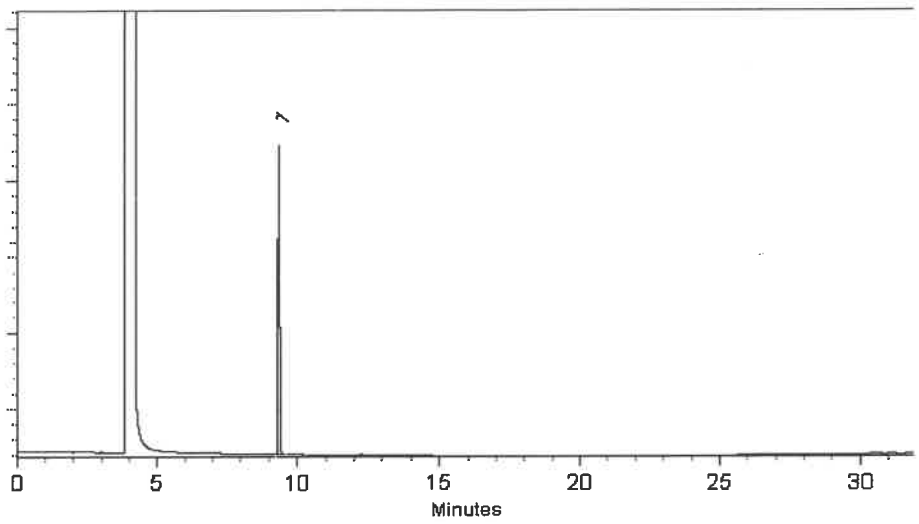
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

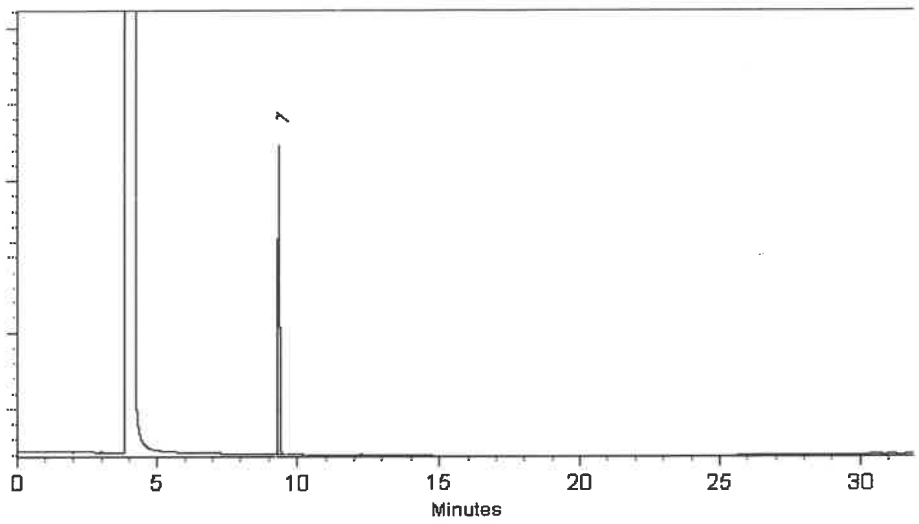
Inj. Temp:
200°C

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:

- 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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

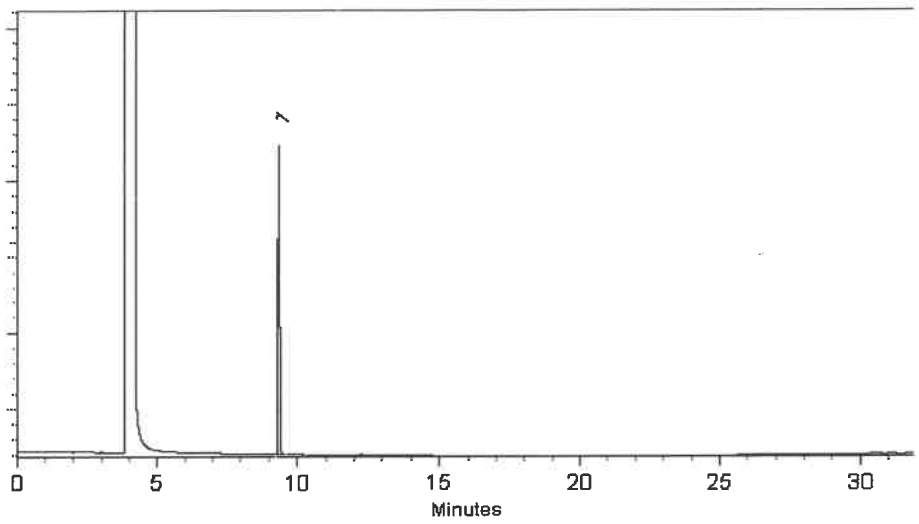
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

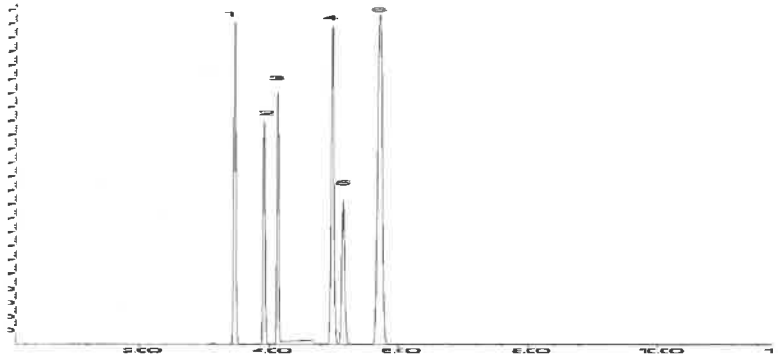
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

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V14727 to
V14756

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

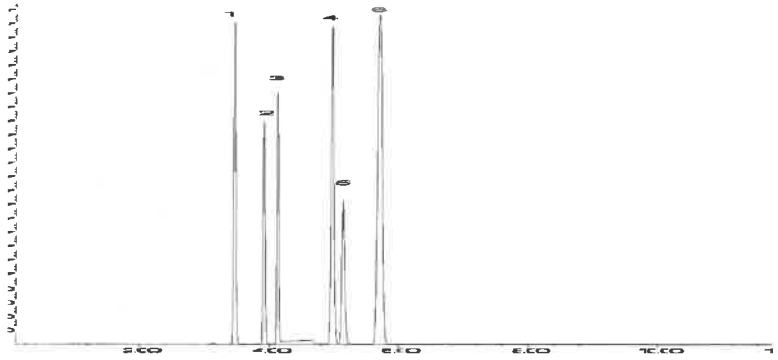
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

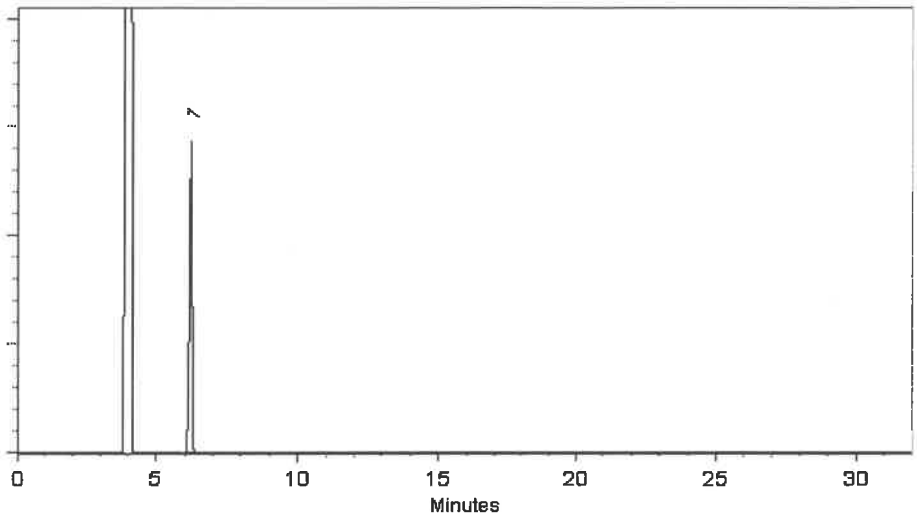
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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.)

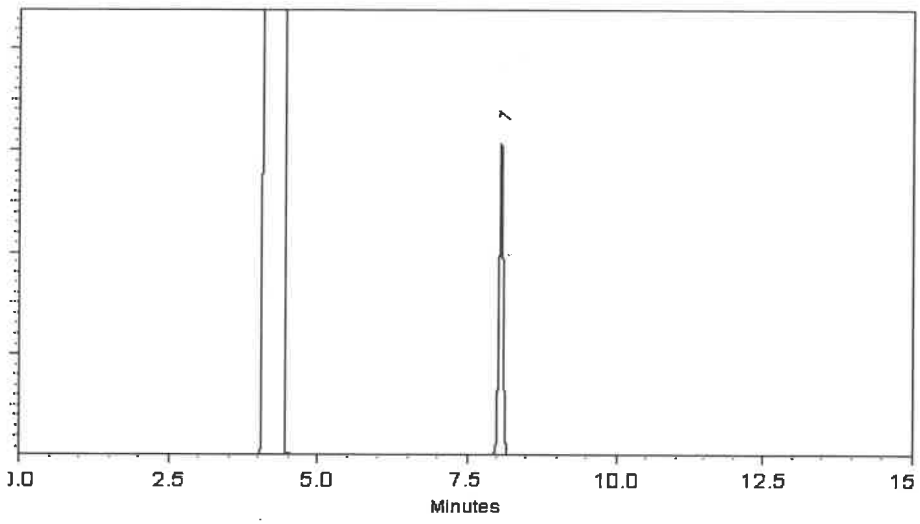
Inj. Temp:
200°C

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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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.)

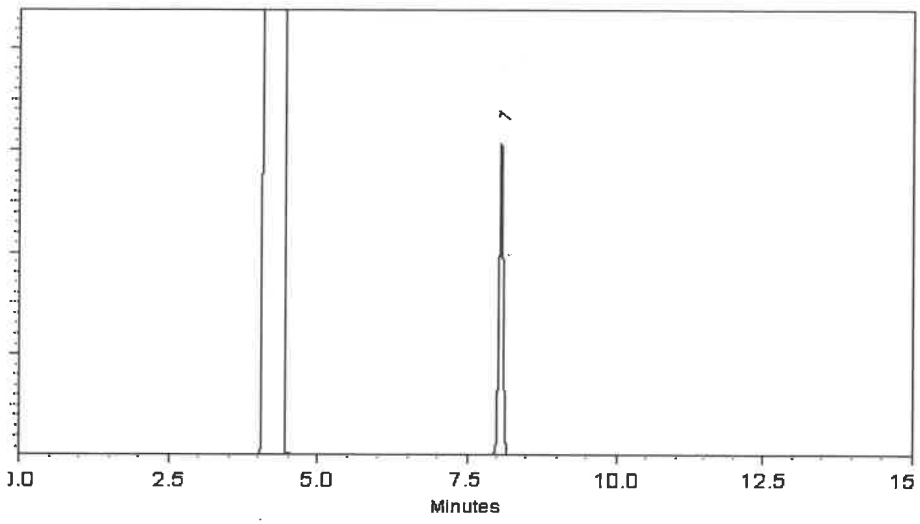
Inj. Temp:
200°C

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.

10 vial Rec 01/08/25

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CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14793 to 14802

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

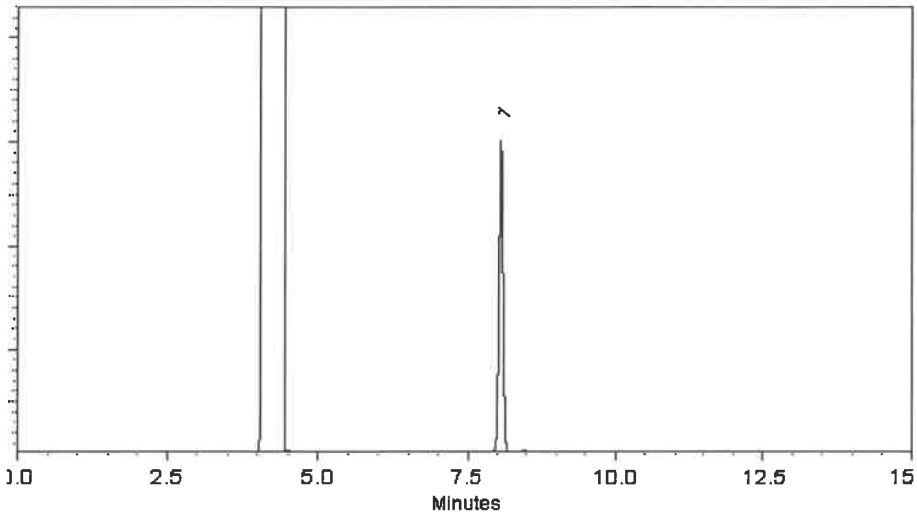
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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10 vial

CERTIFIED REFERENCE MATERIAL

Rec 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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800-368-1131
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Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

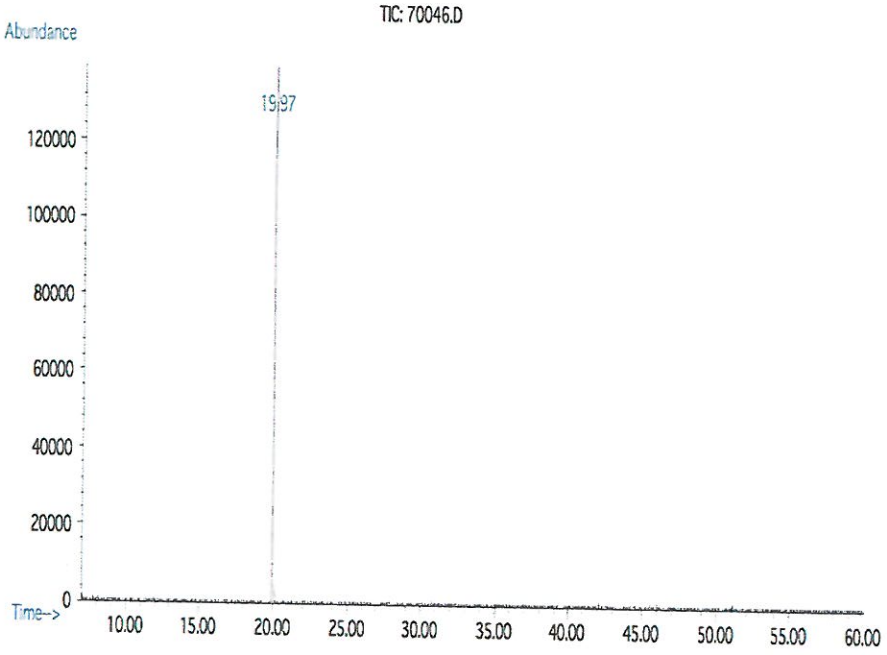
Weight(s) shown below were combined and diluted to (mL): 25.0

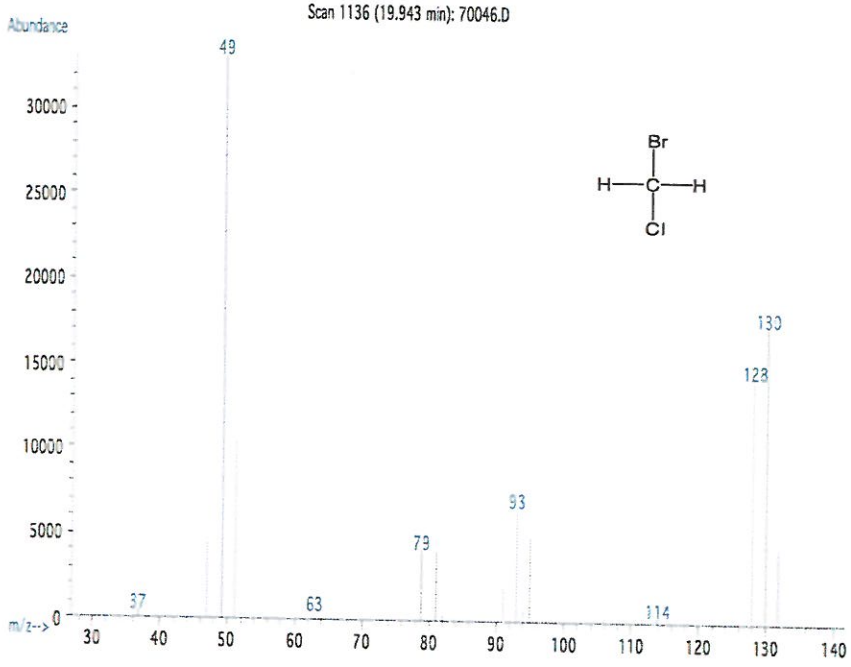
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Formulated By:	Gabriel Helland	070122 DATE
Reviewed By:	Pedro L. Rentas	070122 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
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For Purge and Trap Analysis

Rec 05/09/25

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V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

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

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Dec 05/19/25

CERTIFIED REFERENCE MATERIAL

1o vial

Certificate of Analysis

chromatographic plus

V14971 to V14980

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0220531

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,018.7 µg/mL	+/- 69.7744
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,014.7 µg/mL	+/- 69.6361
3	Ethyl acetate	141-78-6	SHBR4534	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,010.7 µg/mL	+/- 69.4979
5	Propyl acetate	109-60-4	P8XLN	99%	2,017.3 µg/mL	+/- 69.7283
6	Butyl acetate	123-86-4	SHBR2024	99%	2,010.7 µg/mL	+/- 69.4979
7	Amyl acetate	628-63-7	BCBT7442	99%	2,017.3 µg/mL	+/- 69.7283

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

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Rec 06/02/25

CERTIFIED REFERENCE MATERIAL

15 Vials

Certificate of Analysis

chromatographic plus

V14996 to V15010

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.:** A0220242

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 : March 31, 2028 **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	SHBR5966	99%	5,033.8 µg/mL	+/- 173.9449
2	2-Butanone (MEK)	78-93-3	SHBQ9020	99%	5,011.4 µg/mL	+/- 173.1708
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBR0467	99%	5,043.0 µg/mL	+/- 174.2628
4	2-Hexanone	591-78-6	MKCV1997	99%	5,028.8 µg/mL	+/- 173.7721

* 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.)

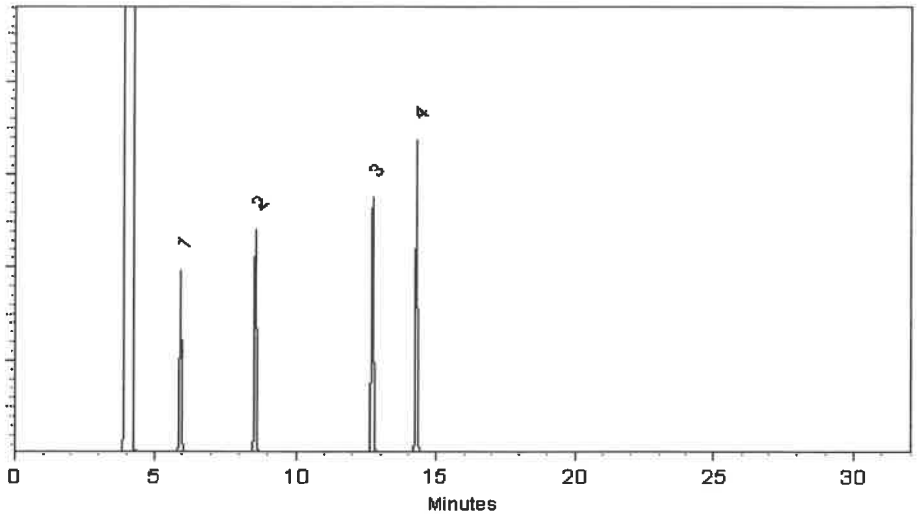
Inj. Temp:
200°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 17-Dec-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Dec-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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

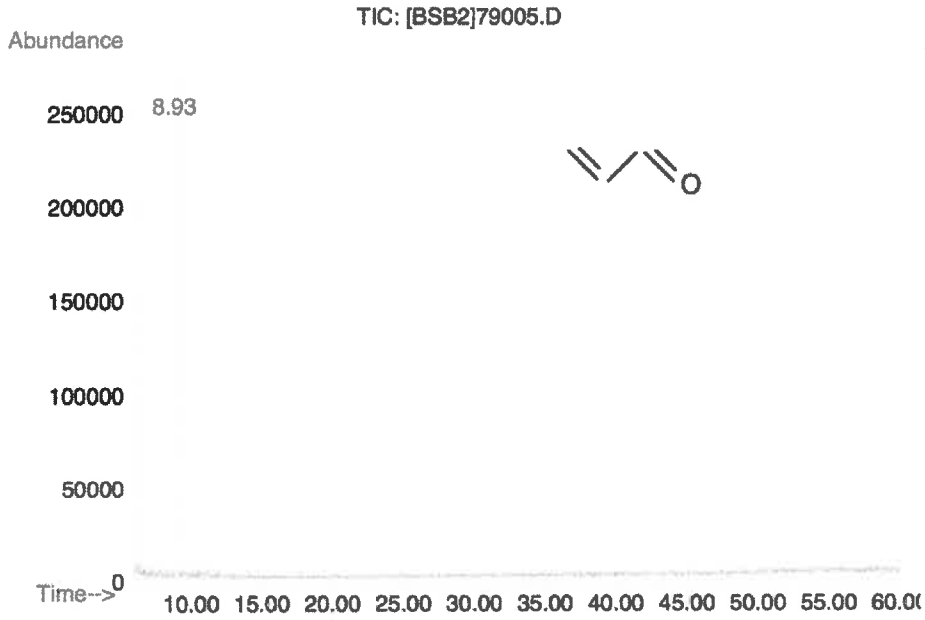
V15064 to V15068

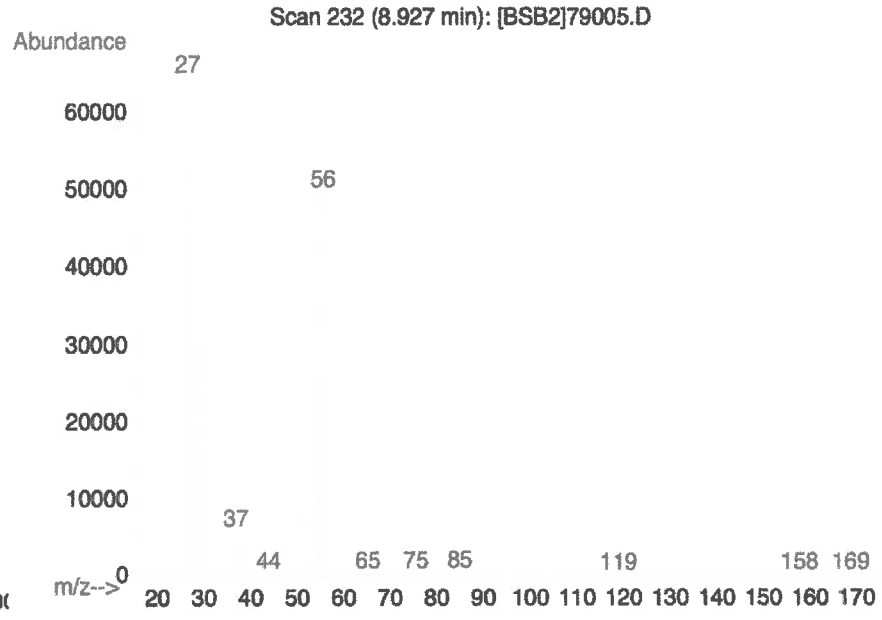
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	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

Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15064 to V15068

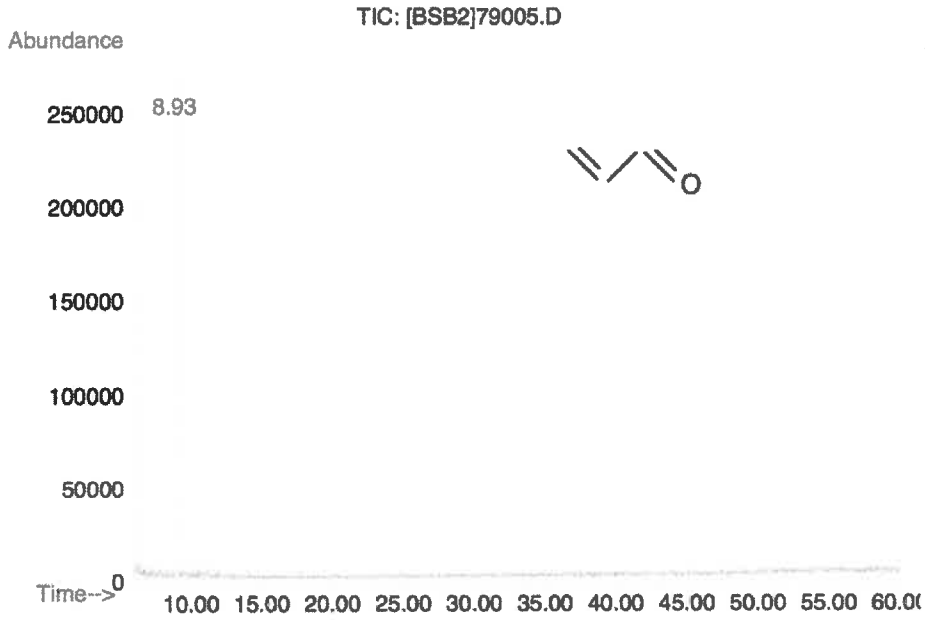
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

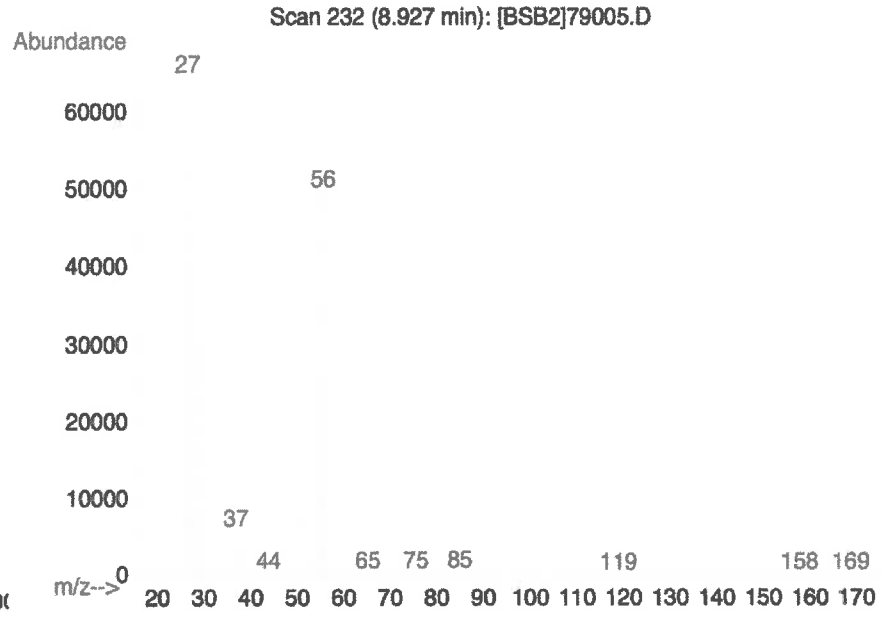
Weight(s) shown below were combined and diluted to (mL): 10.0

	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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- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
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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

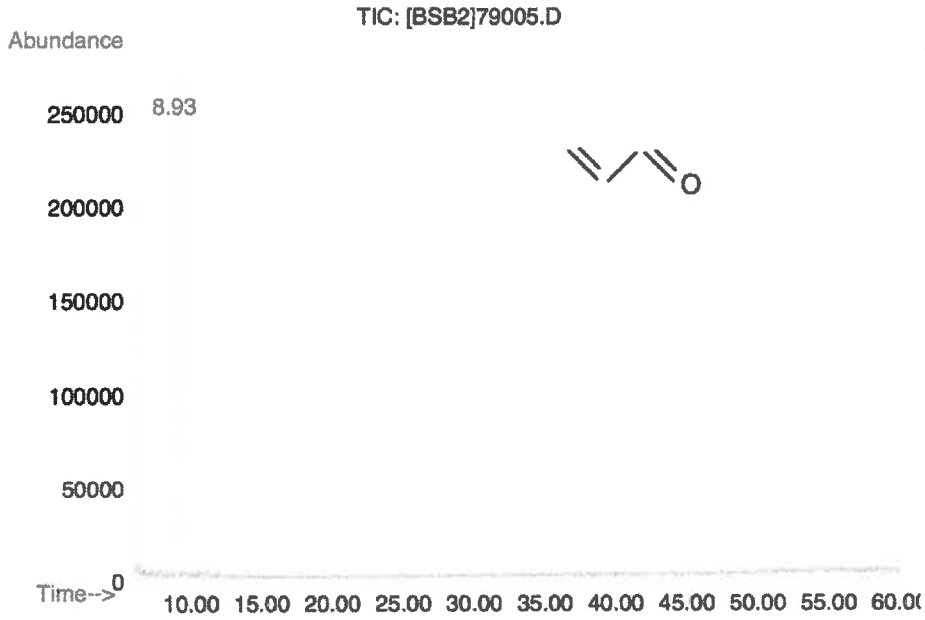
V15064 to V15068

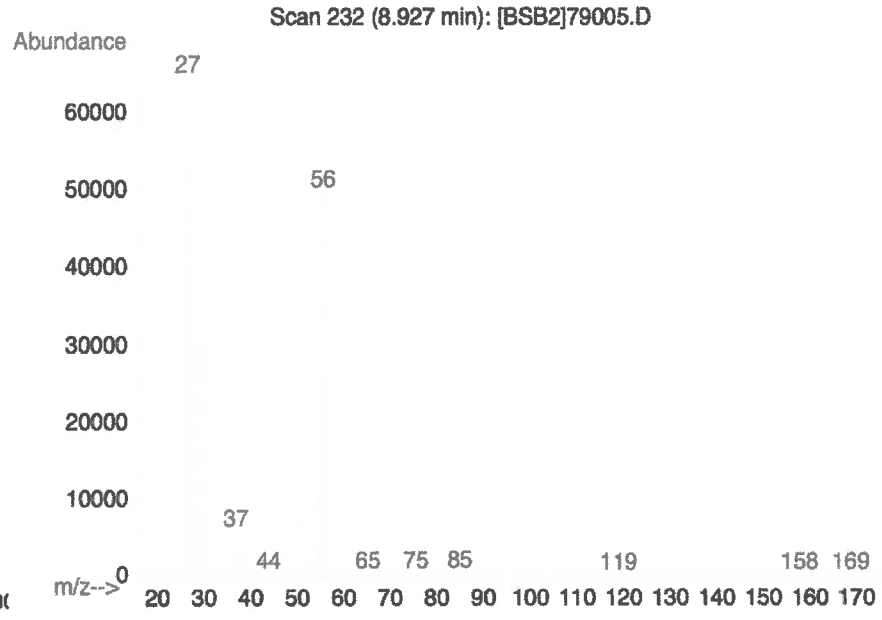
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

	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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Rev 1.0, 2/25/2025

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Certified Reference Material CRM

Rec 09/16/25 2 vial

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15069
V15070

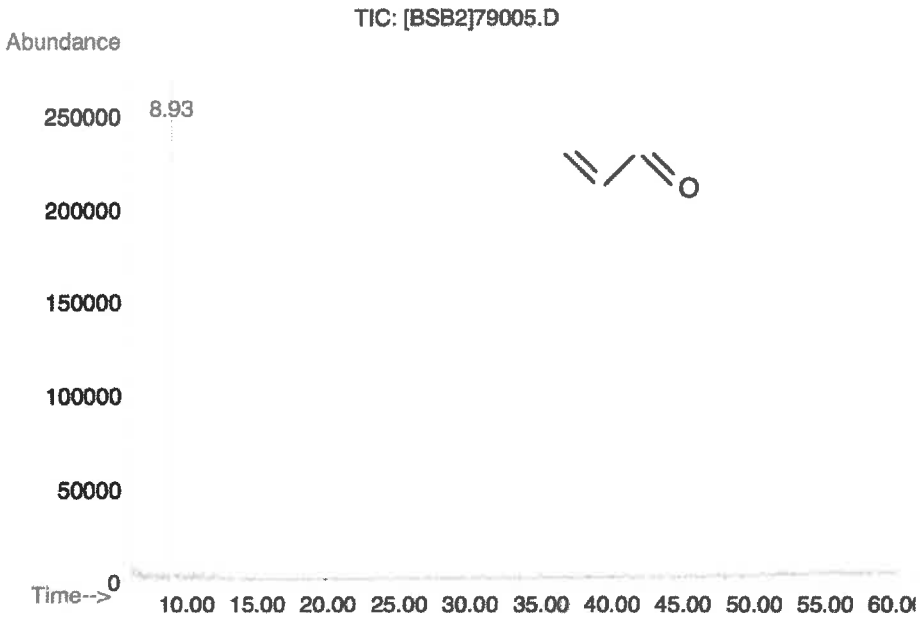
Expiration Date: 101325
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

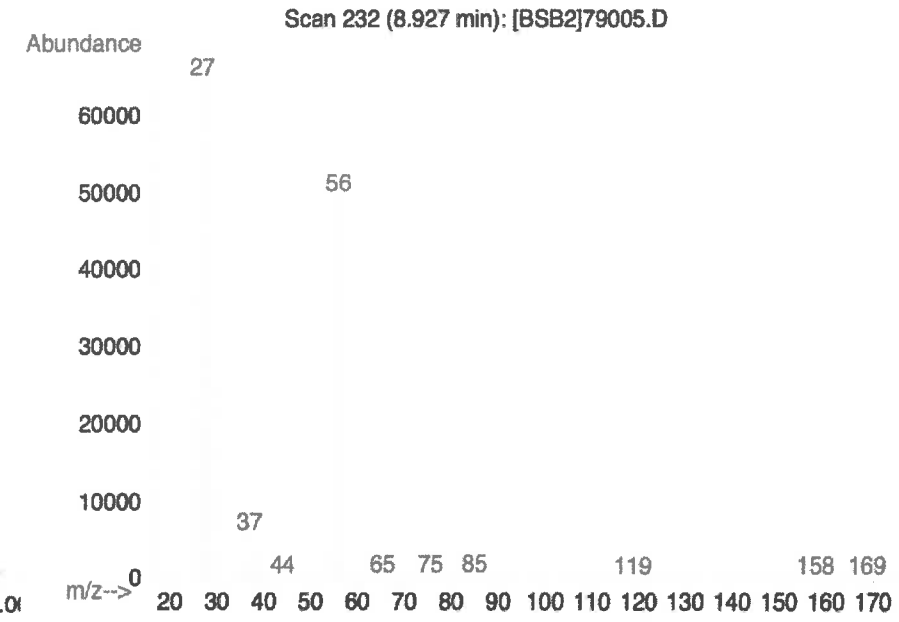
Justin Dippold 091325
Formulated By: Justin Dippold DATE

Pedro Rentas 091325
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Rev 1.0, 2/25/2025

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Certified Reference Material CRM

Rec 09/16/25 2 ✗ vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091325
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

V15069
V15070

Expiration Date: 101325
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:	Justin Dippold	091325 DATE
Reviewed By:	Pedro L. Rentas	091325 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

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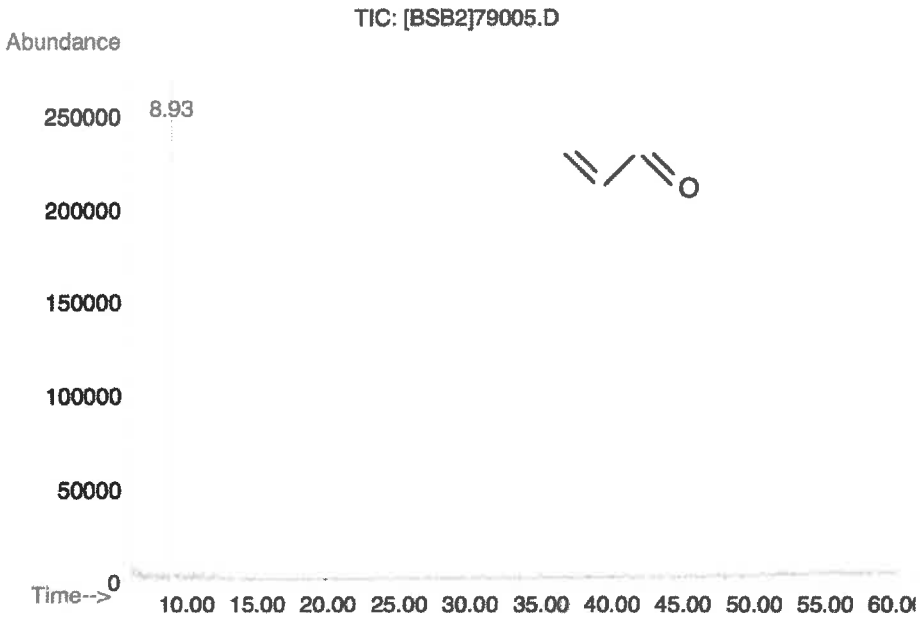

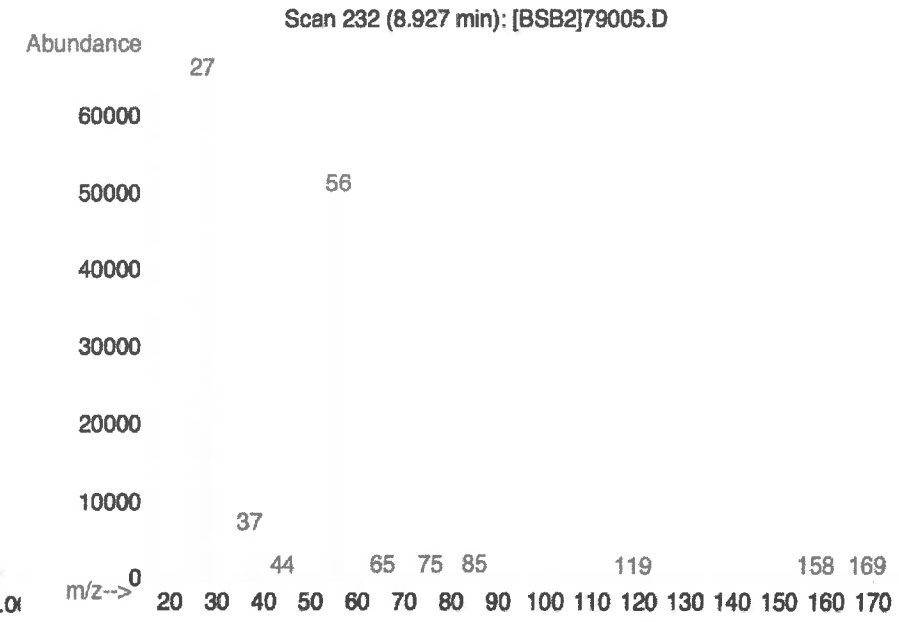

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Rev 1.0, 2/25/2025

SHIPPING DOCUMENTS

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Packing List

Date	Order #
09/02/2025	333290

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ 9/4/2025 9:25

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0925	8270-04
1	1	0	PT-HG-WP	WP Mercury	WP0925	8270-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0925	8270-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0925	8270-06
1	1	0	PT-DEM-WP	WP Demand	WP0925	8270-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0925	8270-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0925	8270-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-COND-WP	WP Conductivity Only	WP0925	8270-72
1	1	0	PT-SOL-WP	WP Solids	WP0925	8270-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0925	8270-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0925	8270-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0925	8270-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0925	8270-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0925	8270-13
1	1	0	PT-PH-WP	WP pH	WP0925	8270-15
1	1	0	PT-CN-WP	WP Cyanide	WP0925	8270-14

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www.phenova.com

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Mountainside, NJ 07092
USA

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9/4/2025
9:25

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PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-PHEN-WP	WP Phenolics	WP0925	8270-16
1	1	0	PT-S2-WP	WP Sulfide	WP0925	8270-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0925	8270-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0925	8270-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0925	8270-20
1	1	0	PT-SIO2-WP	WP Silica	WP0925	8270-21
1	1	0	PT-COL-WP	WP Color	WP0925	8270-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0925	8270-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0925	8270-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0925	8270-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0925	8270-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0925	8270-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0925	8270-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0925	8270-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0925	8270-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R41815	R41815-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R41815	R41815-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R41815	R41815-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R41815	R41815-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R41815	R41815-98

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Certified Reference Materials

Packing List

Date	Order #
09/05/2025	340092

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Golden, CO 80403

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USA

Received by: SJ
9/9/2025 12:20

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3159	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R41854	R41854-108

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